

Astronomisches Jahrbuch

für

1 9 0 9.

**Der Sammlung Berliner astronomischer Jahrbücher
einhundert und vierunddreißigster Band.**

Berliner
Astronomisches Jahrbuch

für

1 9 0 9

mit Angaben für die Oppositionen
der Planeten (1) — (569)

für

1907.

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Berichtigungen.

Jahrbuch 1906.

Seite [3] vorletzte Zeile 53 Camelop. $\Delta\alpha$ lies $-0^{\circ}.108$ anstatt $-0^{\circ}.202$

Jahrbuch 1907.

Seite 155 Nr. 415 AR. lies $9^h 2^m 13^s.313 + 5^s.3316$ anstatt $9^h 2^m 13^s.316 + 5^s.3340$
 » 356 neunte Zeile von oben lies Mai 28 anstatt 28, dem entsprechend sind die Angaben für ζ i. Mer. zu ändern.

Jahrbuch 1908.

- Seite 149 Nr. 34 AR. lies $0^h 51^m 34^s.103$ anstatt $34^s.107$
 » 154 » 177 Dekl. lies -71° anstatt $+71^{\circ}$
 » 187 Jährl. Veränd. in AR. lies $+ 1^s.5493$ anstatt $+ 1^s.5483$
 » 156 » 248 » » » » $+10.3091$ » $+10.3120$
 » 157 » 302 AR. lies $7^h 53^m 51^s.424$ anstatt $51^s.330$
 » 158 » 324 Jährl. Veränd. in Dekl. lies $-12^m.513$ anstatt $-12^m.477$
 » 329 » » » » » -13.064 » -13.059
 » 344 AR. lies $9^h 2^m 18^s.644 + 5^s.3303$ anstatt $9^h 2^m 18^s.649 + 5^s.3328$
 » 350 Jährl. Veränd. in Dekl. lies $-15^m.141$ anstatt $-15^m.137$
 » 164 » 538 Dekl. lies $-60^{\circ} 27' 21''.94 - 15^m.004$
 anstatt $-60 27 33 .67 - 16 .470$
 » 538 Eigenbew. in Dekl. lies $+0^m.720$ anstatt $-0^m.746$,
 dem entsprechend ist der scheinbare Ort zu korrigieren.
 » 542 Jährl. Veränd. in Dekl. lies $-15^m.591$ anstatt $-15^m.595$
 » 165 » 589 » » » AR. » $+5^s.2524$ » $+5^s.2534$
 » 167 » 642 » » » » » $+6.6674$ » $+6.6700$
 » 173 » 851 AR. lies $22^h 33^m 29^s.753 + 1^s.4824$
 anstatt $22 33 29.751 + 1.4812$
 » 217 χ Octantis Dekl. lies $-87^{\circ} 39'$ anstatt $-87^{\circ} 37'$
 » 249 μ Hydri Dekl. Dez. 6—36 zu korrigieren um $+1''$
 » 279 δ Volantis Dekl. Dez. 26, 36 lies $19^m.3, 23^m.0$ anstatt $18^m.7, 22^m.4$
 » 291 κ Argus Dekl. lies $-54^{\circ} 36'$ anstatt $-54^{\circ} 37'$
 » 316 β Centauri AR. Okt. 27 — Dez. 36 lies $18^s.69 18^s.87 19^s.14 19^s.50$
 $19.93 20.42 20.95 21.52$
 θ Centauri AR. Okt. 27 — Dez. 36 lies $15.81 15.94 16.13 16.37$
 $16.66 17.00 17.36 17.74$
 θ Centauri Dekl. lies $-35^{\circ} 54'$ anstatt $-35^{\circ} 55'$
 » 322 γ Triang. austr. AR. Nov. 16 — Dez. 36 lies $17^s.75 18^s.05 18^s.46$
 $18.97 19.57 20.24$
 » 333 ζ Scorpii AR. Dez. 6 — 36 lies $6^s.95 7^s.13 7^s.38 7^s.68$,
 » 471 Harrow Länge von Berlin lies $+0^h 54^m 54^s.7$ anstatt $+0^h 55^m 54^s.7$,
 desgleichen in älteren Jahrgängen.
 » 475 Tulse Hill lies W. Huggins anstatt H. Huggins.

Jahrbuch 1909.

- Seite 482 154 Bertha m_{\circ} lies 11.2 anstatt 12.2
 » 501 496 Gryphia δ lies 206° anstatt 204°
 » 503 522 Helga δ lies $4^{\circ} 28' 19''.9$ anstatt $4^{\circ} 26' 19''.9$
 554 Peraga Autorität lies Abetti anstatt Berberich.
 » 515 523 [1904 ND] lies Sept. 11 $23^h 17^m.7 + 2^s.34' 0.287$
 anstatt Sept. 14 $23 26 .3 - 3 31 0.283$
 Mittl. und scheinb. Ort von Nr. 482 η Centauri Seite 162 u. 310 ist in AR. um
 $-4''$ zu korrigieren Desgl. im Jahrbuch 1908.

Vorwort.

Nach den Beschlüssen der Pariser Konferenz vom Mai 1896 (*Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896*) sind im Jahrbuch vom Jahrgang 1901 an durchweg eingeführt:

die Präzessions-Größen nach S. Newcomb (*Astr. Papers Vol. VIII. Part I*),

die Nutations-Konstante $9''.21$,

die Aberrations-Konstante $20''.47$,

die Sonnen-Parallaxe $8''.80$;

ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; ausgenommen von dieser allgemeinen Regel sind nur die Ephemeriden der Polsterne, die von Tag zu Tag fortschreiten; in diesen ist wohl das allen Sternen gemeinsame Nutationsglied $f' = -0''.1865 \sin 2\zeta + 0''.0618 \sin (\zeta - \Gamma')$ weggelassen, die übrigen mit der Tangente der Dekl. multiplizierten Glieder sind jedoch beibehalten. Das Jahrbuch gibt übrigens die Mittel an die Hand, die weggelassenen Glieder nachträglich anzubringen, worüber die »Erläuterungen« einzusehen sind.

Die mittleren Örter der 925 Sterne des neuen Auwersschen Fundamentalkataloges sind noch größtenteils durch Anbringung der Differenzen gegen den alten Katalog gebildet worden, da die Peterssche Bearbeitung des neuen Kataloges selbst noch nicht vorlag. Jetzt ist letztere abgeschlossen und bereits in Druck gegeben, auch hat ihre teilweise Benutzung für den vorliegenden Jahrgang noch stattfinden können.

Ausführliche Ephemeriden der scheinbaren Örter werden für 573 Sterne geboten, darunter 18 von Tag zu Tag fortschreitende der eigentlichen Polsterne.

Den angegebenen Eigenbewegungen liegt die Newcombsche Präzessions-Konstante zu Grunde.

Für die Planeten sind folgende Tafeln benutzt worden:

Sonne: Tafeln von Newcomb,

Merkur: Tafeln von Newcomb,

Venus: Tafeln von Newcomb,

Mars: Tafeln von Newcomb,

Jupiter: Tafeln von Hill,

Saturn: Tafeln von Hill,

Uranus: Tafeln von Newcomb,

Neptun: Tafeln von Newcomb.

Die Schiefe der Ekliptik ist nach Newcomb angenommen.

Für den Halbmesser der Sonne ist die bisherige Konstante nach Auwers (15' 59".63) beibehalten, für den Halbmesser des Mondes ist sowohl in der Ephemeride (S. 42—81) als bei der Berechnung der Finsternisse und Sternbedeckungen der von J. Peters ermittelte Wert 15' 32".59, entsprechend der Parallaxe 57' 2".27, benutzt (A. N. Nr. 3297).

Die Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (Selenographische Koordinaten) angenommen.

Als Vergrößerungsfaktor für den Erdschatten bei Mondfinsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen worden.

— — —

Zeit- und Festrechnung 1909.

Das Jahr 1909 entspricht dem
 Jahr 6622 der Julianischen Periode und dem
 Jahr 7417 — 7418 der Byzantinischen Ära.

Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl 10	10
Epakten VIII	XX
Sonnenszirkel 14	14
Römer Zinszahl 7	7
Sonntagsbuchstab C	D
Septuagesima . . . Febr. 7	Jan. 25
Aschermittwoch . . . Febr. 24	Febr. 11
I. Quatember . . . März 3	Febr. 18
Ostersonntag . . . April 11	März 29
Himmelfahrt . . . Mai 20	Mai 7
Pfingstsonntag . . . Mai 30	Mai 17
II. Quatember . . . Juni 2	Mai 20
III. Quatember . . . Sept. 15	Sept. 16
I. Advent Nov. 28	Nov. 29
IV. Quatember . . . Dez. 15	Dez. 16

Kalender der Mohammedaner.

1327 (Schaltjahr)

Moharrem I	1909	Jan. 23
Safar I	»	Febr. 22
Rebi-el-awwel I	»	März 23
Rebi-el-accher I	»	April 22
Dschemâdi-el-awwel I	»	Mai 21
Dschemâdi-el-accher I	»	Juni 20
Redscheb I	»	Juli 19
Schabân I	»	Aug. 18
Ramadân I	»	Sept. 16
Schewwâl I	»	Okt. 16
Dsû 'l-kade I	»	Nov. 14
Dsû 'l-hedsche I	»	Dez. 14

1328 (Gemeinjahr)

Moharrem I	1910	Jan. 13
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Kalender der Juden.

5669	Tebet	10	Fasten. Belagerung Jerusalems	1909	Jan.	3
	Schebat	1	. . . . .			23
	Adar	1	. . . . .		Febr.	22
		11	Fasten - Esther		März	4
		14	Purim			7
		15	Schuschan - Purim			8
	Nisan	1	. . . . .			23
		15	Passah - Anfang*		April	6
		16	Zweites Fest*			7
		21	Siebentes Fest*			12
		22	Achtes Fest*			13
	Ijar	1	. . . . .			22
		18	Lag - B'omer		Mai	9
	Sivan	1	. . . . .			21
		6	Wochenfest*			26
		7	Zweites Fest*			27
	Thamuz	1	. . . . .		Juni	20
		17	Fasten. Tempeleroberung		Juli	6
	Ab	1	. . . . .			19
		9	Fasten. Tempelverbrennung			27
	Elul	1	. . . . .		Aug.	18
5670	{ Abgekürztes Schaltjahr					
	Tischri	1	Neujahrsfest*		Sept.	16
		2	Zweites Fest*			17
		4	Fasten - Gedaljah			19
		10	Versöhnungsfest*			25
		15	Laubhüttenfest*			30
		16	Zweites Fest*		Okt.	1
		21	Palmenfest			6
		22	Versammlung oder Laubhüttenende*			7
		23	Gesetzesfreude*			8
	Marcheschwan	1	. . . . .			16
	Kislev	1	. . . . .		Nov.	14
		25	Tempelweihe		Dez.	8
	Tebet	1	. . . . .			13
		10	Fasten. Belagerung Jerusalems			22
	Schebat	1	. . . . .	1910	Jan.	11

Die mit * bezeichneten Festtage werden streng gefeiert.

REDUKTIONSELEMENTE.

1

1909	Schiefe der Ekliptik		Präzession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
	mittlere ·	wahre				
	23°					
Jan. 0	27' 4.04	27' 4.38	— 0.07	—16.72	20.82	8.95
10	4.03	4.55	+ 1.30	16.28	20.82	8.95
20	4.02	4.77	2.68	15.95	20.80	8.94
30	4.01	5.03	4.05	15.75	20.78	8.93
Febr. 9	3.99	5.29	5.43	15.70	20.74	8.92
19	27' 3.98	27' 5.55	+ 6.81	—15.82	20.70	8.90
März 1	3.97	5.77	8.18	16.07	20.65	8.88
11	3.95	5.93	9.56	16.41	20.60	8.86
21	3.94	6.04	10.93	16.81	20.54	8.83
31	3.93	6.08	12.31	17.21	20.48	8.81
April 10	27' 3.92	27' 6.05	+13.69	—17.56	20.42	8.78
20	3.90	5.98	15.06	17.82	20.36	8.76
30	3.89	5.88	16.44	17.95	20.31	8.73
Mai 10	3.88	5.77	17.81	17.94	20.26	8.71
20	3.86	5.66	19.19	17.79	20.22	8.69
30	27' 3.85	27' 5.58	+20.57	—17.51	20.19	8.68
Juni 9	3.84	5.55	21.94	17.14	20.16	8.67
19	3.83	5.58	23.32	16.72	20.14	8.66
29	3.81	5.66	24.69	16.28	20.13	8.66
Juli 9	3.80	5.80	26.07	15.87	20.13	8.66
19	27' 3.79	27' 5.99	+27.45	—15.54	20.14	8.66
29	3.77	6.22	28.82	15.32	20.16	8.67
Aug. 8	3.76	6.47	30.20	15.23	20.19	8.68
18	3.75	6.71	31.57	15.27	20.23	8.70
28	3.74	6.94	32.95	15.44	20.27	8.72
Sept. 7	27' 3.72	27' 7.13	+34.33	—15.72	20.32	8.74
17	3.71	7.26	35.70	16.08	20.37	8.76
27	3.70	7.34	37.08	16.46	20.43	8.78
Okt. 7	3.68	7.35	38.45	16.82	20.49	8.81
17	3.67	7.30	39.83	17.11	20.55	8.83
27	27' 3.66	27' 7.20	+41.21	—17.28	20.61	8.86
Nov. 6	3.65	7.08	42.58	17.31	20.66	8.88
16	3.63	6.96	43.96	17.18	20.71	8.90
26	3.62	6.85	45.33	16.89	20.75	8.92
Dez. 6	3.61	6.78	46.71	16.47	20.78	8.93
16	27' 3.60	27' 6.77	+48.09	—15.97	20.80	8.94
26	3.58	6.83	49.46	15.43	20.82	8.95
36	3.57	6.95	50.84	14.91	20.82	8.95

Mittlere Schiefe der Ekliptik für 1910.0 = $23^{\circ} 27' 3'' .58$.

1

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. - W. Zt.	Scheinb. AR.	Dif.	Scheinb. Dekl.	Dif.	Durchg.- Dauer St. - Zt.	Halbm.
Jan.	0 Do	+ 3 ^m 4.09	18 ^h 40 ^m 57.57	^m 25.16	-23 7 2.7	141.92	16 15.98
	1 Fr	3 32.69	18 45 22.73	4 24.83	23 2 29.2	4 33.5	141.84 16 15.99
	2 Sa	4 0.96	18 49 47.56	4 24.47	22 57 28.1	5 1.1	141.75 16 16.00
	3 So	4 28.87	18 54 12.03	4 24.08	22 51 59.6	5 28.5	141.66 16 16.00
	4 Mo	4 56.39	18 58 36.11	4 23.67	22 46 3.8	5 55.8	141.56 16 15.99
	5 Di	+ 5 23.51	19 2 59.78	4 23.24	-22 39 40.9	6 22.9	141.45 16 15.98
	6 Mi	5 50.19	19 7 23.02	4 22.78	22 32 51.2	6 49.7	141.33 16 15.97
	7 Do	6 16.41	19 11 45.80	4 22.29	22 25 34.7	7 16.5	141.20 16 15.94
	8 Fr	6 42.15	19 16 8.09	4 21.79	22 17 51.7	7 43.0	141.06 16 15.91
	9 Sa	7 7.38	19 20 29.88	4 21.26	22 9 42.5	8 9.2	140.92 16 15.88
	10 So	+ 7 32.08	19 24 51.14	4 20.71	-22 1 7.3	8 35.2	140.77 16 15.84
	11 Mo	7 56.23	19 29 11.85	4 20.14	21 52 6.3	9 1.0	140.61 16 15.79
	12 Di	8 19.81	19 33 31.99	4 19.55	21 42 39.7	9 26.6	140.45 16 15.73
	13 Mi	8 42.80	19 37 51.54	4 18.94	21 32 47.9	9 51.8	140.28 16 15.67
	14 Do	9 5.19	19 42 10.48	4 18.31	21 22 31.2	10 16.7	140.11 16 15.61
	15 Fr	+ 9 26.94	19 46 28.79	4 17.66	-21 11 49.7	10 41.5	139.93 16 15.54
	16 Sa	9 48.04	19 50 46.45	4 16.99	21 0 43.8	11 5.9	139.74 16 15.46
	17 So	10 8.48	19 55 3.44	4 16.31	20 49 13.8	11 30.0	139.55 16 15.38
	18 Mo	10 28.23	19 59 19.75	4 15.60	20 37 20.0	11 53.8	139.35 16 15.30
	19 Di	10 47.27	20 3 35.35	4 14.88	20 25 2.7	12 17.3	139.15 16 15.21
	20 Mi	+ 11 5.59	20 7 50.23	4 14.14	-20 12 22.2	12 40.5	138.95 16 15.12
	21 Do	11 23.17	20 12 4.37	4 13.38	19 59 19.0	13 3.2	138.74 16 15.03
	22 Fr	11 40.00	20 16 17.75	4 12.61	19 45 53.3	13 25.7	138.53 16 14.93
	23 Sa	11 56.05	20 20 30.36	4 11.82	19 32 5.6	13 47.7	138.32 16 14.83
24 So	12 11.31	20 24 42.18	4 11.01	19 17 56.3	14 9.3	138.10 16 14.73	
25 Mo	+ 12 25.77	20 28 53.19	4 10.20	-19 3 25.6	14 30.7	137.88 16 14.62	
26 Di	12 39.41	20 33 3.39	4 9.37	18 48 33.9	14 51.7	137.66 16 14.51	
27 Mi	12 52.23	20 37 12.76	4 8.54	18 33 21.8	15 12.1	137.43 16 14.40	
28 Do	13 4.22	20 41 21.30	4 7.71	18 17 49.6	15 32.2	137.21 16 14.28	
29 Fr	13 15.37	20 45 29.01	4 6.87	18 1 57.6	15 52.0	136.98 16 14.15	
30 Sa	+ 13 25.68	20 49 35.88	4 6.03	-17 45 46.3	16 11.3	136.75 16 14.02	
31 So	13 35.15	20 53 41.91	4 5.19	17 29 16.1	16 30.2	136.52 16 13.89	
Febr.	1 Mo	13 43.78	20 57 47.10	4 4.35	17 12 27.4	16 48.7	136.29 16 13.75
	2 Di	13 51.58	21 1 51.45	4 3.53	16 55 20.6	17 6.8	136.06 16 13.61
	3 Mi	13 58.55	21 5 54.98	4 2.70	16 37 56.1	17 24.5	135.83 16 13.46
	4 Do	+ 14 4.70	21 9 57.68	4 1.89	-16 20 14.2	17 41.9	135.61 16 13.31
	5 Fr	14 10.03	21 13 59.57	4 1.07	16 2 15.5	17 58.7	135.38 16 13.15
	6 Sa	14 14.55	21 18 0.64	4 0.27	15 44 0.3	18 15.2	135.16 16 12.99
	7 So	14 18.26	21 22 0.91	3 59.48	15 25 28.9	18 31.4	134.93 16 12.82
	8 Mo	14 21.18	21 26 0.39		15 6 41.8	18 47.1	134.71 16 12.64

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit		Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. C	
			Länge	Diff.	Breite			in °.or	dλ | da
Jan. 0 0	18 ^h 37 ^m 53.48	279 25 12.93	61 9.07	-0.79	9.9926652	60	- 9	+7	
1 1	18 41 50.04	280 26 22.00	61 8.84	-0.72	9.9926552	34	-14	+3	
2 2	18 45 46.60	281 27 30.84	61 8.60	-0.62	9.9926558	8	-14	-1	
3 3	18 49 43.16	282 28 39.44	61 8.37	-0.50	9.9926550	20	-11	-5	
4 4	18 53 39.72	283 29 47.81	61 8.17	-0.37	9.9926570	48	- 4	-7	
5 5	18 57 36.27	284 30 55.98	61 7.98	-0.22	9.9926618	77	+ 5	-9	
6 6	19 1 32.83	285 32 3.96	61 7.83	-0.09	9.9926695	105	+13	-8	
7 7	19 5 29.39	286 33 11.79	61 7.69	+0.04	9.9926800	133	+20	-6	
8 8	19 9 25.95	287 34 19.48	61 7.55	+0.15	9.9926933	160	+23	-3	
9 9	19 13 22.50	288 35 27.03	61 7.42	+0.24	9.9927093	187	+23	+1	
10 10	19 17 19.06	289 36 34.45	61 7.30	+0.31	9.9927280	214	+18	+5	
11 11	19 21 15.62	290 37 41.75	61 7.18	+0.35	9.9927494	240	+10	+8	
12 12	19 25 12.18	291 38 48.93	61 7.03	+0.36	9.9927734	264	- 1	+9	
13 13	19 29 8.74	292 39 55.96	61 6.87	+0.35	9.9927998	288	-11	+8	
14 14	19 33 5.29	293 41 2.83	61 6.69	+0.31	9.9928286	310	-21	+6	
15 15	19 37 1.85	294 42 9.52	61 6.46	+0.25	9.9928596	331	-26	+2	
16 16	19 40 58.41	295 43 15.98	61 6.19	+0.16	9.9928927	351	-27	-2	
17 17	19 44 54.96	296 44 22.17	61 5.87	+0.05	9.9929278	370	-23	-6	
18 18	19 48 51.52	297 45 28.04	61 5.49	-0.07	9.9929648	388	-15	-8	
19 19	19 52 48.08	298 46 33.53	61 5.04	-0.21	9.9930036	403	- 5	-9	
20 20	19 56 44.64	299 47 38.57	61 4.48	-0.34	9.9930439	419	+ 4	-8	
21 21	20 0 41.20	300 48 43.05	61 3.81	-0.46	9.9930858	433	+12	-5	
22 22	20 4 37.75	301 49 46.86	61 3.02	-0.57	9.9931291	447	+16	-1	
23 23	20 8 34.31	302 50 49.88	61 2.11	-0.66	9.9931738	462	+17	+3	
24 24	20 12 30.87	303 51 51.99	61 1.10	-0.72	9.9932200	477	+14	+6	
25 25	20 16 27.42	304 52 53.09	61 0.00	-0.74	9.9932677	494	+ 8	+8	
26 26	20 20 23.98	305 53 53.09	60 58.83	-0.73	9.9933171	510	0	+9	
27 27	20 24 20.53	306 54 51.92	60 57.60	-0.69	9.9933681	529	- 7	+7	
28 28	20 28 17.09	307 55 49.52	60 56.34	-0.62	9.9934210	549	-13	+5	
29 29	20 32 13.65	308 56 45.86	60 55.06	-0.52	9.9934759	570	-14	+1	
30 30	20 36 10.20	309 57 40.92	60 53.75	-0.40	9.9935329	591	-13	-3	
31 31	20 40 6.76	310 58 34.67	60 52.46	-0.27	9.9935920	615	- 6	-7	
Febr. 1 32	20 44 3.32	311 59 27.13	60 51.18	-0.14	9.9936535	639	+ 2	-9	
2 33	20 47 59.87	313 0 18.31	60 49.90	0.00	9.9937174	662	+10	-9	
3 34	20 51 56.43	314 1 8.21	60 48.66	+0.12	9.9937836	686	+18	-7	
4 35	20 55 52.98	315 1 56.87	60 47.43	+0.23	9.9938522	710	+23	-4	
5 36	20 59 49.54	316 2 44.30	60 46.24	+0.32	9.9939232	734	+23	0	
6 37	21 3 46.09	317 3 30.54	60 45.05	+0.39	9.9939966	758	+20	+4	
7 38	21 7 42.65	318 4 15.59	60 43.88	+0.44	9.9940724	780	+12	+7	
8 39	21 11 39.20	319 4 59.47		+0.46	9.9941504		+ 3	+9	

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg- Dauer St. - Zt.	Halbm.	
Febr.	7 So	+14 ^m 18.26	21 ^h 22 ^m 0.91	^m . . .	—15 [°] 25' 28.9"	' . . .	134.93	16 12.82
	8 Mo	14 21.18	21 26 0.39	3 59.48	15 6 41.8	18 47.1	134.71	16 12.64
	9 Di	14 23.32	21 29 59.08	3 58.69	14 47 39.4	19 2.4	134.48	16 12.46
	10 Mi	14 24.68	21 33 56.99	3 57.91	14 28 22.2	19 17.2	134.26	16 12.28
	11 Do	14 25.27	21 37 54.14	3 57.15	14 8 50.4	19 31.8	134.03	16 12.09
	12 Fr	+14 25.11	21 41 50.53	3 56.39	—13 49 4.5	19 45.9	133.81	16 11.90
	13 Sa	14 24.20	21 45 46.18	3 55.65	13 29 4.9	19 59.6	133.59	16 11.70
	14 So	14 22.56	21 49 41.09	3 54.91	13 8 52.1	20 12.8	133.38	16 11.50
	15 Mo	14 20.19	21 53 35.28	3 54.19	12 48 26.3	20 25.8	133.17	16 11.29
	16 Di	14 17.11	21 57 28.75	3 53.47	12 27 48.1	20 38.2	132.96	16 11.09
	17 Mi	+14 13.33	22 1 21.52	3 52.77	—12 6 57.8	20 50.3	132.75	16 10.88
	18 Do	14 8.85	22 5 13.60	3 52.08	11 45 55.8	21 2.0	132.55	16 10.67
	19 Fr	14 3.69	22 9 5.00	3 51.40	11 24 42.6	21 13.2	132.35	16 10.45
	20 Sa	13 57.86	22 12 55.72	3 50.72	11 3 18.6	21 24.0	132.16	16 10.24
	21 So	13 51.36	22 16 45.77	3 50.05	10 41 44.3	21 34.3	131.97	16 10.02
	22 Mo	+13 44.20	22 20 35.16	3 49.39	—10 20 0.1	21 44.2	131.79	16 9.80
	23 Di	13 36.39	22 24 23.91	3 48.75	9 58 6.4	21 53.7	131.61	16 9.58
	24 Mi	13 27.95	22 28 12.03	3 48.12	9 36 3.7	22 2.7	131.43	16 9.36
	25 Do	13 18.90	22 31 59.53	3 47.50	9 13 52.3	22 11.4	131.26	16 9.14
	26 Fr	13 9.24	22 35 46.42	3 46.89	8 51 32.8	22 19.5	131.09	16 8.91
	27 Sa	+12 58.98	22 39 32.72	3 46.30	—8 29 5.5	22 27.3	130.93	16 8.68
28 So	12 48.16	22 43 18.45	3 45.73	8 6 30.8	22 34.7	130.77	16 8.45	
März	1 Mo	12 36.79	22 47 3.63	3 45.18	7 43 49.2	22 41.6	130.62	16 8.22
	2 Di	12 24.88	22 50 48.28	3 44.65	7 21 0.9	22 48.3	130.47	16 7.98
	3 Mi	12 12.46	22 54 32.41	3 44.13	6 58 6.5	22 54.4	130.33	16 7.74
	4 Do	+11 59.56	22 58 16.06	3 43.65	—6 35 6.3	23 0.2	130.19	16 7.50
	5 Fr	11 46.19	23 1 59.24	3 43.18	6 12 0.6	23 5.7	130.06	16 7.25
	6 Sa	11 32.37	23 5 41.98	3 42.74	5 48 49.9	23 10.7	129.93	16 7.00
	7 So	11 18.12	23 9 24.29	3 42.31	5 25 34.6	23 15.3	129.81	16 6.75
	8 Mo	11 3.48	23 13 6.20	3 41.91	5 2 14.9	23 19.7	129.69	16 6.49
	9 Di	+10 48.46	23 16 47.73	3 41.53	—4 38 51.3	23 23.6	129.58	16 6.23
	10 Mi	10 33.08	23 20 28.90	3 41.17	4 15 24.0	23 27.3	129.48	16 5.97
11 Do	10 17.36	23 24 9.74	3 40.84	3 51 53.5	23 30.5	129.38	16 5.70	
12 Fr	10 1.34	23 27 50.27	3 40.53	3 38 20.2	23 33.3	129.29	16 5.44	
13 Sa	9 45.03	23 31 30.51	3 40.24	3 4 44.4	23 35.8	129.20	16 5.17	
14 So	+9 28.45	23 35 10.49	3 39.98	—2 41 6.4	23 38.0	129.12	16 4.90	
15 Mo	9 11.63	23 38 50.22	3 39.73	2 17 26.6	23 39.8	129.05	16 4.62	
16 Di	8 54.59	23 42 29.73	3 39.51	1 53 45.4	23 41.2	128.98	16 4.35	
17 Mi	8 37.34	23 46 9.03	3 39.30	1 30 3.1	23 42.3	128.92	16 4.07	
18 Do	8 19.89	23 49 48.14	3 39.11	1 6 20.1	23 43.0	128.86	16 3.80	

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (in o°.or d λ ds			
		Länge	Diff.	Breite			d λ	ds		
Febr.	7 38	21 ^h 7 ^m 42.65	318° 4'	15.59	60 43.88	+0.44	9.9940724	780	+12	+7
	8 39	21 11 39.20	319 4	59.47	60 42.72	+0.46	9.9941504	803	+ 3	+9
	9 40	21 15 35.76	320 5	42.19	60 41.58	+0.45	9.9942307	824	- 8	+9
	10 41	21 19 32.31	321 6	23.77	60 40.44	+0.41	9.9943131	843	-18	+7
	11 42	21 23 28.87	322 7	4.21	60 39.29	+0.35	9.9943974	863	-24	+3
	12 43	21 27 25.42	323 7	43.50	60 38.14	+0.27	9.9944837	881	-26	-1
	13 44	21 31 21.98	324 8	21.64	60 36.98	+0.17	9.9945718	897	-24	-5
	14 45	21 35 18.53	325 8	58.62	60 35.81	+0.05	9.9946615	913	-18	-7
	15 46	21 39 15.09	326 9	34.43	60 34.60	-0.08	9.9947528	925	- 9	-9
	16 47	21 43 11.64	327 10	9.03	60 33.34	-0.21	9.9948453	937	+ 1	-8
	17 48	21 47 8.20	328 10	42.37	60 32.00	-0.34	9.9949390	947	+10	-6
	18 49	21 51 4.75	329 11	14.37	60 30.58	-0.46	9.9950337	955	+16	-3
	19 50	21 55 1.31	330 11	44.95	60 29.06	-0.56	9.9951292	963	+17	+1
	20 51	21 58 57.86	331 12	14.01	60 27.44	-0.62	9.9952255	970	+15	+5
	21 52	22 2 54.41	332 12	41.45	60 25.72	-0.64	9.9953225	978	+10	+8
	22 53	22 6 50.97	333 13	7.17	60 23.89	-0.63	9.9954203	985	+ 2	+9
	23 54	22 10 47.52	334 13	31.06	60 21.99	-0.60	9.9955188	993	- 6	+8
	24 55	22 14 44.08	335 13	53.05	60 20.03	-0.53	9.9956181	1003	-12	+6
	25 56	22 18 40.63	336 14	13.08	60 18.02	-0.44	9.9957184	1013	-15	+2
	26 57	22 22 37.18	337 14	31.10	60 15.96	-0.33	9.9958197	1024	-14	-2
	27 58	22 26 33.74	338 14	47.06	60 13.90	-0.20	9.9959221	1036	- 9	-6
28 59	22 30 30.29	339 15	0.96	60 11.84	-0.07	9.9960257	1050	- 1	-8	
März	1 60	22 34 26.84	340 15	12.80	60 9.80	+0.06	9.9961307	1063	+ 8	-9
	2 61	22 38 23.40	341 15	22.60	60 7.78	+0.19	9.9962370	1078	+16	-8
	3 62	22 42 19.95	342 15	30.38	60 5.78	+0.30	9.9963448	1092	+22	-5
	4 63	22 46 16.50	343 15	36.16	60 3.81	+0.38	9.9964540	1108	+24	-1
	5 64	22 50 13.06	344 15	39.97	60 1.86	+0.45	9.9965648	1122	+22	+3
	6 65	22 54 9.61	345 15	41.83	59 59.94	+0.49	9.9966770	1137	+16	+6
	7 66	22 58 6.17	346 15	41.77	59 58.06	+0.51	9.9967907	1152	+ 7	+8
	8 67	23 2 2.72	347 15	39.83	59 56.22	+0.50	9.9969059	1165	- 5	+9
	9 68	23 5 59.27	348 15	36.05	59 54.41	+0.47	9.9970224	1179	-14	+7
	10 69	23 9 55.83	349 15	30.46	59 52.62	+0.41	9.9971403	1191	-22	+4
	11 70	23 13 52.38	350 15	23.08	59 50.88	+0.33	9.9972594	1202	-26	+1
	12 71	23 17 48.93	351 15	13.96	59 49.16	+0.23	9.9973796	1213	-25	-3
	13 72	23 21 45.48	352 15	3.12	59 47.46	+0.12	9.9975009	1222	-20	-7
14 73	23 25 42.04	353 14	50.58	59 45.77	0.00	9.9976231	1229	-12	-9	
15 74	23 29 38.59	354 14	36.35	59 44.09	-0.12	9.9977460	1234	- 2	-9	
16 75	23 33 35.14	355 14	20.44	59 42.40	-0.24	9.9978694	1239	+ 6	-7	
17 76	23 37 31.69	356 14	2.84	59 40.66	-0.35	9.9979933	1241	+13	-4	
18 77	23 41 28.25	357 13	43.50		-0.44	9.9981174		+16	0	

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.	
März	17 Mi	+8 ^m 37.34	23 ^h 46 ^m 9.03	^m 39.11	— 1 30' 3.1	23 43.0	128.92	16' 4.07
	18 Do	8 19.89	23 49 48.14	3 38.95	1 6 20.1	23 43.3	128.86	16 3.80
	19 Fr	8 2.28	23 53 27.09	3 38.80	0 42 36.8	23 43.3	128.81	16 3.52
	20 Sa	7 44.53	23 57 5.89	3 38.66	— 0 18 53.5	23 42.8	128.76	16 3.25
	21 So	7 26.64	0 0 44.55	3 38.54	+ 0 4 49.3	23 42.0	128.72	16 2.97
	22 Mo	+7 8.63	0 4 23.09	3 38.44	+ 0 28 31.3	23 40.7	128.69	16 2.70
	23 Di	6 50.52	0 8 1.53	3 38.35	0 52 12.0	23 39.2	128.66	16 2.43
	24 Mi	6 32.32	0 11 39.88	3 38.28	1 15 51.2	23 37.1	128.64	16 2.16
	25 Do	6 14.05	0 15 18.16	3 38.23	1 39 28.3	23 34.7	128.63	16 1.88
	26 Fr	5 55.72	0 18 56.39	3 38.19	2 3 3.0	23 31.9	128.62	16 1.61
	27 Sa	+5 37.36	0 22 34.58	3 38.18	+ 2 26 34.9	23 28.8	128.62	16 1.34
	28 So	5 18.98	0 26 12.76	3 38.18	2 50 3.7	23 25.3	128.62	16 1.07
	29 Mo	5 0.61	0 29 50.94	3 38.21	3 13 29.0	23 21.5	128.63	16 0.80
30 Di	4 42.27	0 33 29.15	3 38.25	3 36 50.5	23 17.3	128.65	16 0.53	
31 Mi	4 23.97	0 37 7.40	3 38.32	4 0 7.8	23 12.7	128.67	16 0.26	
April	1 Do	+4 5.73	0 40 45.72	3 38.40	+ 4 23 20.5	23 7.9	128.70	15 59.99
	2 Fr	3 47.58	0 44 24.12	3 38.52	4 46 28.4	23 2.7	128.73	15 59.71
	3 Sa	3 29.54	0 48 2.64	3 38.65	5 9 31.1	22 57.1	128.77	15 59.44
	4 So	3 11.64	0 51 41.29	3 38.80	5 32 28.2	22 51.3	128.82	15 59.17
	5 Mo	2 53.89	0 55 20.09	3 38.98	5 55 19.5	22 45.1	128.87	15 58.89
	6 Di	+2 36.31	0 58 59.07	3 39.17	+ 6 18 4.6	22 38.6	128.92	15 58.61
	7 Mi	2 18.93	1 2 38.24	3 39.39	6 40 43.2	22 31.7	128.98	15 58.34
	8 Do	2 1.77	1 6 17.63	3 39.63	7 3 14.9	22 24.6	129.05	15 58.06
	9 Fr	1 44.85	1 9 57.26	3 39.89	7 25 39.5	22 17.2	129.12	15 57.78
	10 Sa	1 28.18	1 13 37.15	3 40.16	7 47 56.7	22 9.4	129.19	15 57.51
	11 So	+1 11.79	1 17 17.31	3 40.46	+ 8 10 6.1	22 1.3	129.27	15 57.23
	12 Mo	0 55.69	1 20 57.77	3 40.78	8 32 7.4	21 52.9	129.36	15 56.95
	13 Di	0 39.92	1 24 38.55	3 41.11	8 54 0.3	21 44.1	129.45	15 56.67
	14 Mi	0 24.48	1 28 19.66	3 41.46	9 15 44.4	21 35.0	129.54	15 56.40
	15 Do	+0 9.39	1 32 1.12	3 41.83	9 37 19.4	21 25.7	129.64	15 56.13
	16 Fr	— 0 5.34	1 35 42.95	3 42.20	+ 9 58 45.1	21 15.9	129.74	15 55.85
	17 Sa	0 19.69	1 39 25.15	3 42.59	10 20 1.0	21 5.7	129.85	15 55.58
	18 So	0 33.66	1 43 7.74	3 42.98	10 41 6.7	20 55.2	129.96	15 55.32
	19 Mo	0 47.23	1 46 50.72	3 43.40	11 2 1.9	20 44.4	130.08	15 55.05
	20 Di	1 0.39	1 50 34.12	3 43.82	11 22 46.3	20 33.3	130.20	15 54.79
	21 Mi	— 1 13.13	1 54 17.94	3 44.24	+ 11 43 19.6	20 21.6	130.32	15 54.53
	22 Do	1 25.44	1 58 2.18	3 44.67	12 3 41.2	20 9.7	130.45	15 54.28
	23 Fr	1 37.32	2 1 46.85	3 45.11	12 23 50.9	19 57.4	130.58	15 54.03
	24 Sa	1 48.76	2 5 31.96	3 45.57	12 43 48.3	19 44.8	130.71	15 53.78
	25 So	1 59.75	2 9 17.53		13 3 33.1		130.85	15 53.53

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aqu. 1909.0			Lg. Rad. v.	Diff.	Nnt. (C in o°.or dλ | dε	
		Länge	Diff.	Breite				
März 17	76 ^{h m s} 23 37 31.69	356° 14' 2.84	59 40.66	-0.35	9.9979933	1241	+13	-4
18	77 23 41 28.25	357 13 43.50	59 38.88	-0.44	9.9981174	1241	+16	0
19	78 23 45 24.80	358 13 22.38	59 37.05	-0.51	9.9982415	1240	+16	+4
20	79 23 49 21.35	359 12 59.43	59 35.13	-0.54	9.9983655	1237	+11	+7
21	80 23 53 17.91	0 12 34.56	59 33.14	-0.54	9.9984892	1235	+5	+9
22	81 23 57 14.46	1 12 7.70	59 31.06	-0.51	9.9986127	1231	-4	+9
23	82 0 1 11.01	2 11 38.76	59 28.88	-0.45	9.9987358	1228	-10	+6
24	83 0 5 7.56	3 11 7.64	59 26.64	-0.36	9.9988586	1226	-14	+3
25	84 0 9 4.12	4 10 34.28	59 24.36	-0.25	9.9989812	1223	-14	-1
26	85 0 13 0.67	5 9 58.64	59 22.04	-0.12	9.9991035	1223	-11	-5
27	86 0 16 57.22	6 9 20.68	59 19.70	+0.01	9.9992258	1223	-4	-7
28	87 0 20 53.78	7 8 40.38	59 17.36	+0.14	9.9993481	1223	+5	-9
29	88 0 24 50.33	8 7 57.74	59 15.03	+0.27	9.9994704	1226	+13	-8
30	89 0 28 46.88	9 7 12.77	59 12.73	+0.38	9.9995930	1228	+19	-6
31	90 0 32 43.44	10 6 25.50	59 10.46	+0.47	9.9997158	1231	+25	-3
April 1	91 0 36 39.99	11 5 35.96	59 8.21	+0.54	9.9998389	1235	+23	+1
2	92 0 40 36.54	12 4 44.17	59 6.00	+0.59	9.9999624	1238	+18	+5
3	93 0 44 33.09	13 3 50.17	59 3.85	+0.61	0.0000862	1242	+10	+8
4	94 0 48 29.65	14 2 54.02	59 1.74	+0.61	0.0002104	1246	-1	+9
5	95 0 52 26.20	15 1 55.76	58 59.67	+0.58	0.0003350	1249	-11	+8
6	96 0 56 22.75	16 0 55.43	58 57.66	+0.52	0.0004599	1251	-20	+6
7	97 1 0 19.31	16 59 53.09	58 55.72	+0.44	0.0005851	1256	-25	+2
8	98 1 4 15.86	17 58 48.81	58 53.83	+0.34	0.0007107	1258	-26	-2
9	99 1 8 12.41	18 57 42.64	58 51.99	+0.22	0.0008365	1258	-21	-6
10	100 1 12 8.97	19 56 34.63	58 50.21	+0.10	0.0009623	1259	-15	-8
11	101 1 16 5.52	20 55 24.84	58 48.46	-0.03	0.0010882	1258	-6	-9
12	102 1 20 2.08	21 54 13.30	58 46.75	-0.16	0.0012140	1255	+4	-8
13	103 1 23 58.63	22 53 0.05	58 45.07	-0.28	0.0013395	1250	+12	-5
14	104 1 27 55.18	23 51 45.12	58 43.40	-0.37	0.0014645	1244	+16	-1
15	105 1 31 51.74	24 50 28.52	58 41.72	-0.44	0.0015889	1236	+16	+3
16	106 1 35 48.29	25 49 10.24	58 40.02	-0.48	0.0017125	1226	+12	+6
17	107 1 39 44.84	26 47 50.26	58 38.27	-0.49	0.0018351	1214	+6	+8
18	108 1 43 41.40	27 46 28.53	58 36.45	-0.47	0.0019565	1202	-2	+9
19	109 1 47 37.95	28 45 4.98	58 34.59	-0.41	0.0020767	1189	-8	+7
20	110 1 51 34.51	29 43 39.57	58 32.67	-0.33	0.0021956	1175	-14	+4
21	111 1 55 31.06	30 42 12.24	58 30.68	-0.22	0.0023131	1161	-15	0
22	112 1 59 27.61	31 40 42.92	58 28.63	-0.09	0.0024292	1148	-13	-4
23	113 2 3 24.17	32 39 11.55	58 26.53	+0.04	0.0025440	1136	-6	-7
24	114 2 7 20.72	33 37 38.08	58 24.42	+0.17	0.0026576	1124	+2	-9
25	115 2 11 17.28	34 36 2.50		+0.30	0.0027700		+11	-9

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. - W. Zt.	Scheinb. A.R.	Diff.	Scheinb. Dekl.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.
April	24 Sa	-1 48.76	2 5 31.96	3 45.57	+12 43 48.3	19 44.8	15 53.78
	25 So	1 59.75	2 9 17.53	3 46.03	13 3 33.1	19 31.8	15 53.53
	26 Mo	2 10.27	2 13 3.56	3 46.51	13 23 4.9	19 18.6	15 53.28
	27 Di	2 20.32	2 16 50.07	3 46.99	13 42 23.5	19 4.9	15 53.04
	28 Mi	2 29.89	2 20 37.06	3 47.48	14 1 28.4	18 51.0	15 52.80
Mai	29 Do	-2 38.96	2 24 24.54	3 47.98	+14 20 19.4	18 36.7	15 52.56
	30 Fr	2 47.53	2 28 12.52	3 48.50	14 38 56.1	18 22.2	15 52.33
	1 Sa	2 55.59	2 32 1.02	3 49.02	14 57 18.3	18 7.3	15 52.09
	2 So	3 3.12	2 35 50.04	3 49.55	15 15 25.6	17 52.2	15 51.86
	3 Mo	3 10.12	2 39 39.59	3 50.10	15 33 17.8	17 36.7	15 51.63
	4 Di	-3 16.58	2 43 29.69	3 50.65	+15 50 54.5	17 20.9	15 51.40
	5 Mi	3 22.49	2 47 20.34	3 51.20	16 8 15.4	17 4.9	15 51.17
	6 Do	3 27.84	2 51 11.54	3 51.77	16 25 20.3	16 48.5	15 50.94
	7 Fr	3 32.63	2 55 3.31	3 52.34	16 42 8.8	16 32.0	15 50.72
	8 Sa	3 36.84	2 58 55.65	3 52.92	16 58 40.8	16 15.1	15 50.49
	9 So	-3 40.48	3 2 48.57	3 53.51	+17 14 55.9	15 57.9	15 50.27
	10 Mo	3 43.53	3 6 42.08	3 54.10	17 30 53.8	15 40.4	15 50.05
	11 Di	3 45.98	3 10 36.18	3 54.69	17 46 34.2	15 22.6	15 49.82
	12 Mi	3 47.84	3 14 30.87	3 55.29	18 1 56.8	15 4.7	15 49.61
	13 Do	3 49.11	3 18 26.16	3 55.88	18 17 1.5	14 46.4	15 49.40
	14 Fr	-3 49.79	3 22 22.04	3 56.48	+18 31 47.9	14 27.7	15 49.19
	15 Sa	3 49.87	3 26 18.52	3 57.06	18 46 15.6	14 8.9	15 48.98
	16 So	3 49.36	3 30 15.58	3 57.64	19 0 24.5	13 49.7	15 48.78
	17 Mo	3 48.27	3 34 13.22	3 58.22	19 14 14.2	13 30.1	15 48.58
18 Di	3 46.61	3 38 11.44	3 58.78	19 27 44.3	13 10.4	15 48.39	
19 Mi	-3 44.39	3 42 10.22	3 59.34	+19 40 54.7	12 50.4	15 48.20	
20 Do	3 41.61	3 46 9.56	3 59.88	19 53 45.1	12 30.0	15 48.02	
21 Fr	3 38.28	3 50 9.44	4 0.41	20 6 15.1	12 9.4	15 47.84	
22 Sa	3 34.43	3 54 9.85	4 0.93	20 18 24.5	11 48.5	15 47.66	
23 So	3 30.06	3 58 10.78	4 1.43	20 30 13.0	11 27.4	15 47.49	
24 Mo	-3 25.18	4 2 12.21	4 1.93	+20 41 40.4	11 6.0	15 47.33	
25 Di	3 19.81	4 6 14.14	4 2.42	20 52 46.4	10 44.4	15 47.17	
26 Mi	3 13.96	4 10 16.56	4 2.89	21 3 30.8	10 22.6	15 47.01	
27 Do	3 7.63	4 14 19.45	4 3.35	21 13 53.4	10 0.6	15 46.86	
28 Fr	3 0.83	4 18 22.80	4 3.80	21 23 54.0	9 38.3	15 46.71	
29 Sa	-2 53.58	4 22 26.60	4 4.25	+21 33 32.3	9 15.9	15 46.56	
30 So	2 45.90	4 26 30.85	4 4.66	21 42 48.2	8 53.2	15 46.41	
31 Mo	2 37.79	4 30 35.51	4 5.07	21 51 41.4	8 30.4	15 46.27	
Juni	1 Di	2 29.27	4 34 40.58	4 5.47	22 0 11.8	8 7.4	15 46.14
	2 Mi	2 20.36	4 38 46.05		22 8 19.2		15 46.00

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (
		Länge	Diff.	Breite			in °.or	dl	de
April	24	114 2 ^h 7 ^m 20.72	33° 37' 38.08	58° 24.42	+0.17	0.0026576	1124	+ 2 —9	
	25	115 2 11 17.28	34 36 2.50	58 22.31	+0.30	0.0027700	1112	+11 —9	
	26	116 2 15 13.83	35 34 24.81	58 20.20	+0.42	0.0028812	1103	+19 —7	
	27	117 2 19 10.39	36 32 45.01	58 18.13	+0.51	0.0029915	1094	+24 —4	
	28	118 2 23 6.94	37 31 3.14	58 16.07	+0.59	0.0031009	1086	+24 0	
	29	119 2 27 3.50	38 29 19.21	58 14.05	+0.64	0.0032095	1078	+21 +4	
	30	120 2 31 0.05	39 27 33.26	58 12.08	+0.67	0.0033173	1071	+13 +7	
	Mai	1	121 2 34 56.61	40 25 45.34	58 10.16	+0.67	0.0034244	1063	+ 3 +9
		2	122 2 38 53.16	41 23 55.50	58 8.27	+0.64	0.0035307	1057	— 8 +8
		3	123 2 42 49.72	42 22 3.77	58 6.44	+0.59	0.0036364	1051	—17 +6
4		124 2 46 46.27	43 20 10.21	58 4.69	+0.51	0.0037415	1046	—23 +3	
5		125 2 50 42.83	44 18 14.90	58 3.02	+0.41	0.0038461	1039	—25 —1	
6		126 2 54 39.38	45 16 17.92	58 1.42	+0.29	0.0039500	1032	—23 —5	
7		127 2 58 35.94	46 14 19.34	57 59.89	+0.17	0.0040532	1026	—18 —8	
8		128 3 2 32.49	47 12 19.23	57 58.44	+0.03	0.0041558	1018	— 9 —9	
9		129 3 6 29.05	48 10 17.67	57 57.07	—0.10	0.0042576	1010	0 —8	
10		130 3 10 25.61	49 8 14.74	57 55.76	—0.22	0.0043586	1000	+ 9 —6	
11	131 3 14 22.16	50 6 10.50	57 54.50	—0.33	0.0044586	988	+15 —2		
12	132 3 18 18.72	51 4 5.00	57 53.28	—0.42	0.0045574	976	+16 +2		
13	133 3 22 15.27	52 1 58.28	57 52.09	—0.47	0.0046550	961	+13 +5		
14	134 3 26 11.83	52 59 50.37	57 50.91	—0.49	0.0047511	944	+ 8 +8		
15	135 3 30 8.39	53 57 41.28	57 49.72	—0.49	0.0048455	926	0 +9		
16	136 3 34 4.94	54 55 31.00	57 48.49	—0.45	0.0049381	906	— 7 +8		
17	137 3 38 1.50	55 53 19.49	57 47.23	—0.37	0.0050287	886	—13 +5		
18	138 3 41 58.05	56 51 6.72	57 45.93	—0.27	0.0051173	865	—15 +2		
19	139 3 45 54.61	57 48 52.65	57 44.60	—0.15	0.0052038	843	—14 —2		
20	140 3 49 51.17	58 46 37.25	57 43.20	—0.02	0.0052881	821	— 9 —6		
21	141 3 53 47.72	59 44 20.45	57 41.76	+0.12	0.0053702	800	— 1 —8		
22	142 3 57 44.28	60 42 2.21	57 40.30	+0.26	0.0054502	779	+ 8 —9		
23	143 4 1 40.84	61 39 42.51	57 38.82	+0.38	0.0055281	759	+16 —8		
24	144 4 5 37.40	62 37 21.33	57 37.35	+0.48	0.0056040	740	+23 —5		
25	145 4 9 33.95	63 34 58.68	57 35.88	+0.57	0.0056780	722	+25 —1		
26	146 4 13 30.51	64 32 34.56	57 34.43	+0.64	0.0057502	705	+23 +3		
27	147 4 17 27.07	65 30 8.99	57 33.04	+0.68	0.0058207	688	+16 +6		
28	148 4 21 23.62	66 27 42.03	57 31.68	+0.68	0.0058895	672	+ 7 +8		
29	149 4 25 20.18	67 25 13.71	57 30.36	+0.66	0.0059567	658	— 4 +9		
30	150 4 29 16.74	68 22 44.07	57 29.07	+0.61	0.0060225	643	—13 +7		
31	151 4 33 13.30	69 20 13.14	57 27.84	+0.54	0.0060868	630	—22 +4		
Juni	1	152 4 37 9.85	70 17 40.98	57 26.70	+0.44	0.0061498	616	—25 0	
	2	153 4 41 6.41	71 15 7.68		+0.32	0.0062114		—25 —4	

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.	
Juni	1 Di	-2 29.27	4 34 40.58	4 5.47	+22 0 11.8	8 7.4	136.45	15 46.14
	2 Mi	2 20.36	4 38 46.05	4 5.86	22 8 19.2	7 44.3	136.56	15 46.00
	3 Do	2 11.06	4 42 51.91	4 6.23	22 16 3.5	7 21.0	136.67	15 45.87
	4 Fr	2 1.39	4 46 58.14	4 6.58	22 23 24.5	6 57.6	136.77	15 45.74
	5 Sa	1 51.36	4 51 4.72	4 6.93	22 30 22.1	6 34.0	136.87	15 45.62
	6 So	-1 40.99	4 55 11.65	4 7.26	+22 36 56.1	6 10.3	136.96	15 45.49
	7 Mo	1 30.29	4 59 18.91	4 7.58	22 43 6.4	5 46.5	137.05	15 45.37
	8 Di	1 19.27	5 3 26.49	4 7.87	22 48 52.9	5 22.5	137.13	15 45.25
	9 Mi	1 7.96	5 7 34.36	4 8.15	22 54 15.4	4 58.4	137.20	15 45.14
	10 Do	0 56.36	5 11 42.51	4 8.42	22 59 13.8	4 34.2	137.27	15 45.03
	11 Fr	-0 44.50	5 15 50.93	4 8.65	+23 3 48.0	4 10.0	137.33	15 44.92
	12 Sa	0 32.41	5 19 59.58	4 8.87	23 7 58.0	3 45.6	137.39	15 44.82
	13 So	0 20.10	5 24 8.45	4 9.07	23 11 43.6	3 21.2	137.44	15 44.72
	14 Mo	-0 7.59	5 28 17.52	4 9.23	23 15 4.8	2 56.6	137.48	15 44.63
	15 Di	+0 5.09	5 32 26.75	4 9.37	23 18 1.4	2 31.9	137.52	15 44.54
	16 Mi	+0 17.90	5 36 36.12	4 9.49	+23 20 33.3	2 7.2	137.55	15 44.46
	17 Do	0 30.83	5 40 45.61	4 9.57	23 22 40.5	1 42.5	137.58	15 44.39
	18 Fr	0 43.84	5 44 55.18	4 9.62	23 24 23.0	1 17.7	137.60	15 44.32
	19 Sa	0 56.90	5 49 4.80	4 9.64	23 25 40.7	0 52.8	137.61	15 44.25
	20 So	1 9.99	5 53 14.44	4 9.65	23 26 33.5	0 28.0	137.62	15 44.19
	21 Mo	+1 23.08	5 57 24.09	4 9.63	+23 27 1.5	0 3.2	137.62	15 44.14
	22 Di	1 36.15	6 1 33.72	4 9.57	23 27 4.7	0 21.7	137.61	15 44.09
	23 Mi	1 49.16	6 5 43.29	4 9.50	23 26 43.0	0 46.5	137.60	15 44.05
	24 Do	2 2.10	6 9 52.79	4 9.39	23 25 56.5	1 11.2	137.58	15 44.01
	25 Fr	2 14.94	6 14 2.18	4 9.27	23 24 45.3	1 36.0	137.55	15 43.97
	26 Sa	+2 27.65	6 18 11.45	4 9.12	+23 23 9.3	2 0.7	137.52	15 43.94
	27 So	2 40.21	6 22 20.57	4 8.95	23 21 8.6	2 25.3	137.48	15 43.92
	28 Mo	2 52.60	6 26 29.52	4 8.75	23 18 43.3	2 49.9	137.44	15 43.90
	29 Di	3 4.80	6 30 38.27	4 8.54	23 15 53.4	3 14.3	137.39	15 43.88
	30 Mi	3 16.78	6 34 46.81	4 8.30	23 12 39.1	3 38.7	137.33	15 43.87
Juli	1 Do	+3 28.52	6 38 55.11	4 8.05	+23 9 0.4	4 3.0	137.26	15 43.86
	2 Fr	3 40.01	6 43 3.16	4 7.78	23 4 57.4	4 27.2	137.19	15 43.85
	3 Sa	3 51.23	6 47 10.94	4 7.50	23 0 30.2	4 51.2	137.11	15 43.84
	4 So	4 2.17	6 51 18.44	4 7.20	22 55 39.0	5 15.1	137.03	15 43.84
	5 Mo	4 12.81	6 55 25.64	4 6.88	22 50 23.9	5 38.9	136.94	15 43.85
	6 Di	+4 23.14	6 59 32.52	4 6.55	+22 44 45.0	6 2.6	136.84	15 43.85
	7 Mi	4 33.13	7 3 39.07	4 6.20	22 38 42.4	6 26.2	136.74	15 43.86
	8 Do	4 42.77	7 7 45.27	4 5.84	22 32 16.2	6 49.5	136.64	15 43.87
	9 Fr	4 52.06	7 11 51.11	4 5.46	22 25 26.7	7 12.8	136.53	15 43.89
	10 Sa	5 0.96	7 15 56.57		22 18 13.9		136.41	15 43.91

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit			Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. C			
	h	m	s	Länge	Diff.	Breite			in o°.01	dλ	dε	
Juni	1	152	4 37	9.85	70° 17'	40.98	57 26.70	+0.44	0.0061498	616	-25	0
	2	153	4 41	6.41	71 15	7.68	57 25.62	+0.32	0.0062114	604	-25	-4
	3	154	4 45	2.97	72 12	33.30	57 24.63	+0.19	0.0062718	591	-19	-7
	4	155	4 48	59.53	73 9	57.93	57 23.74	+0.06	0.0063309	580	-12	-9
	5	156	4 52	56.08	74 7	21.67	57 22.93	-0.08	0.0063889	567	-3	-9
	6	157	4 56	52.64	75 4	44.60	57 22.22	-0.20	0.0064456	553	+7	-7
	7	158	5 0	49.20	76 2	6.82	57 21.59	-0.31	0.0065009	540	+13	-4
	8	159	5 4	45.76	76 59	28.41	57 21.03	-0.40	0.0065549	524	+15	0
	9	160	5 8	42.32	77 56	49.44	57 20.54	-0.47	0.0066073	507	+15	+4
	10	161	5 12	38.87	78 54	9.98	57 20.12	-0.50	0.0066580	490	+10	+7
	11	162	5 16	35.43	79 51	30.10	57 19.72	-0.49	0.0067070	469	+3	+9
	12	163	5 20	31.99	80 48	49.82	57 19.33	-0.45	0.0067539	448	-5	+8
	13	164	5 24	28.55	81 46	9.15	57 18.93	-0.39	0.0067987	426	-11	+6
	14	165	5 28	25.10	82 43	28.08	57 18.53	-0.29	0.0068413	401	-15	+3
	15	166	5 32	21.66	83 40	46.61	57 18.11	-0.16	0.0068814	376	-15	-1
	16	167	5 36	18.22	84 38	4.72	57 17.66	-0.03	0.0069190	351	-11	-5
	17	168	5 40	14.78	85 35	22.38	57 17.17	+0.10	0.0069541	325	-4	-8
	18	169	5 44	11.34	86 32	39.55	57 16.63	+0.24	0.0069866	299	+5	-9
	19	170	5 48	7.89	87 29	56.18	57 16.08	+0.37	0.0070165	274	+15	-8
	20	171	5 52	4.45	88 27	12.26	57 15.50	+0.49	0.0070439	248	+21	-6
21	172	5 56	1.01	89 24	27.76	57 14.91	+0.58	0.0070687	224	+25	-2	
22	173	5 59	57.57	90 21	42.67	57 14.34	+0.64	0.0070911	200	+24	+2	
23	174	6 3	54.13	91 18	57.01	57 13.77	+0.68	0.0071111	178	+19	+5	
24	175	6 7	50.69	92 16	10.78	57 13.20	+0.69	0.0071289	157	+11	+8	
25	176	6 11	47.24	93 13	23.98	57 12.65	+0.68	0.0071446	136	0	+9	
26	177	6 15	43.80	94 10	36.63	57 12.16	+0.64	0.0071582	116	-10	+8	
27	178	6 19	40.36	95 7	48.79	57 11.72	+0.57	0.0071698	98	-19	+5	
28	179	6 23	36.92	96 5	0.51	57 11.33	+0.48	0.0071796	80	-24	+2	
29	180	6 27	33.48	97 2	11.84	57 10.97	+0.37	0.0071876	62	-25	-2	
30	181	6 31	30.03	97 59	22.81	57 10.67	+0.25	0.0071938	47	-21	-6	
Juli	1	182	6 35	26.59	98 56	33.48	57 10.45	+0.12	0.0071985	32	-15	-8
	2	183	6 39	23.15	99 53	43.93	57 10.34	-0.02	0.0072017	17	-6	-9
	3	184	6 43	19.71	100 50	54.27	57 10.34	-0.15	0.0072034	3	+3	-8
	4	185	6 47	16.27	101 48	4.61	57 10.43	-0.27	0.0072037	11	+11	-5
	5	186	6 51	12.82	102 45	15.04	57 10.62	-0.37	0.0072026	25	+15	-1
	6	187	6 55	9.38	103 42	25.66	57 10.90	-0.44	0.0072001	42	+15	+3
	7	188	6 59	5.94	104 39	36.56	57 11.26	-0.48	0.0071959	58	+11	+6
	8	189	7 3	2.50	105 36	47.82	57 11.69	-0.49	0.0071901	76	+5	+8
	9	190	7 6	59.05	106 33	59.51	57 12.17	-0.46	0.0071825	95	-3	+9
	10	191	7 10	55.61	107 31	11.68		-0.40	0.0071730		-10	+7

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt	Scheinb. AR.	Dif.	Scheinb. Dekl.	Dif.	Durchg.- Dauer St. - Zt.	Halbm.		
Juli	9 Fr	+4 ^m 52.06	7 ^h 11 ^m 51.11	4 ^m 5.46	+22° 25' 26.7	7' 12.8	136.53	15 43.89	
	10 Sa	5 0.96	7 15 56.57	4 5.06	22 18 13.9	7 35.9	136.41	15 43.91	
	11 So	5 9.46	7 20 1.63	4 4.65	22 10 38.0	7 58.8	136.29	15 43.94	
	12 Mo	5 17.56	7 24 6.28	4 4.22	22 2 39.2	8 21.5	136.17	15 43.97	
	13 Di	5 25.22	7 28 10.50	4 3.77	21 54 17.7	8 44.1	136.04	15 44.00	
	14 Mi	+5 32.43	7 32 14.27	4 3.30	+21 45 33.6	9 6.4	135.91	15 44.04	
	15 Do	5 39.18	7 36 17.57	4 2.82	21 36 27.2	9 28.5	135.77	15 44.09	
	16 Fr	5 45.44	7 40 20.39	4 2.31	21 26 58.7	9 50.5	135.63	15 44.14	
	17 Sa	5 51.19	7 44 22.70	4 1.79	21 17 8.2	10 12.2	135.49	15 44.20	
	18 So	5 56.42	7 48 24.49	4 1.26	21 6 56.0	10 33.7	135.34	15 44.26	
	19 Mo	+6 1.12	7 52 25.75	4 0.71	+20 56 22.3	10 54.9	135.19	15 44.33	
	20 Di	6 5.28	7 56 26.46	4 0.15	20 45 27.4	11 15.9	135.04	15 44.40	
	21 Mi	6 8.87	8 0 26.61	3 59.57	20 34 11.5	11 36.7	134.88	15 44.48	
	22 Do	6 11.89	8 4 26.18	3 58.99	20 22 34.8	11 57.2	134.72	15 44.56	
	23 Fr	6 14.32	8 8 25.17	3 58.40	20 10 37.6	12 17.3	134.56	15 44.65	
	24 Sa	+6 16.16	8 12 23.57	3 57.80	+19 58 20.3	12 37.3	134.39	15 44.74	
	25 So	6 17.40	8 16 21.37	3 57.19	19 45 43.0	12 57.1	134.23	15 44.84	
	26 Mo	6 18.03	8 20 18.56	3 56.58	19 32 45.9	13 16.5	134.06	15 44.94	
	27 Di	6 18.05	8 24 15.14	3 55.97	19 19 29.4	13 35.6	133.89	15 45.05	
	28 Mi	6 17.46	8 28 11.11	3 55.35	19 5 53.8	13 54.4	133.72	15 45.16	
	29 Do	+6 16.26	8 32 6.46	3 54.74	+18 51 59.4	14 13.0	133.55	15 45.27	
	30 Fr	6 14.44	8 36 1.20	3 54.12	18 37 46.4	14 31.4	133.38	15 45.39	
	31 Sa	6 12.01	8 39 55.32	3 53.51	18 23 15.0	14 49.4	133.21	15 45.51	
	Aug.	1 So	6 8.97	8 43 48.83	3 52.91	18 8 25.6	15 7.1	133.03	15 45.63
		2 Mo	6 5.32	8 47 41.74	3 52.30	17 53 18.5	15 24.6	132.86	15 45.76
		3 Di	+6 1.07	8 51 34.04	3 51.71	+17 37 53.9	15 41.9	132.69	15 45.88
		4 Mi	5 56.22	8 55 25.75	3 51.12	17 22 12.0	15 58.8	132.51	15 46.01
		5 Do	5 50.78	8 59 16.87	3 50.54	17 6 13.2	16 15.4	132.34	15 46.14
		6 Fr	5 44.76	9 3 7.41	3 49.96	16 49 57.8	16 31.8	132.17	15 46.28
		7 Sa	5 38.17	9 6 57.37	3 49.40	16 33 26.0	16 47.9	132.00	15 46.42
		8 So	+5 31.01	9 10 46.77	3 48.83	+16 16 38.1	17 3.7	131.83	15 46.56
9 Mo		5 23.29	9 14 35.60	3 48.27	15 59 34.4	17 19.2	131.66	15 46.71	
10 Di		5 15.01	9 18 23.87	3 47.71	15 42 15.2	17 34.4	131.49	15 46.86	
11 Mi		5 6.17	9 22 11.58	3 47.16	15 24 40.8	17 49.3	131.32	15 47.01	
12 Do		4 56.77	9 25 58.74	3 46.61	15 6 51.5	18 3.9	131.15	15 47.17	
13 Fr		+4 46.82	9 29 45.35	3 46.06	+14 48 47.6	18 18.1	130.99	15 47.33	
14 Sa		4 36.33	9 33 31.41	3 45.53	14 30 29.5	18 32.1	130.83	15 47.50	
15 So		4 25.30	9 37 16.94	3 44.99	14 11 57.4	18 45.7	130.67	15 47.67	
16 Mo		4 13.74	9 41 1.93	3 44.47	13 53 11.7	18 59.0	130.52	15 47.85	
17 Di		4 1.65	9 44 46.40		13 34 12.7		130.37	15 48.03	

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (in o°.oz		
		Länge	Diff.	Breite			dλ	de	
Juli 9	190	7 ^h 6 ^m 59.05	106° 33'	59.51	—0.46	0.0071825	95	— 3 +9	
10	191	7 10 55.61	107 31	11.68	57 12.17	—0.40	0.0071730	115	—10 +7
11	192	7 14 52.17	108 28	24.37	57 12.69	—0.31	0.0071615	138	—15 +4
12	193	7 18 48.72	109 25	37.61	57 13.24	—0.20	0.0071477	161	—15 0
13	194	7 22 45.28	110 22	51.39	57 13.78	—0.07	0.0071316	185	—13 —4
14	195	7 26 41.84	111 20	5.71	57 14.32	+0.06	0.0071131	210	— 7 —7
15	196	7 30 38.40	112 17	20.55	57 14.84	+0.20	0.0070921	235	+ 2 —9
16	197	7 34 34.95	113 14	35.89	57 15.34	+0.33	0.0070686	262	+12 —9
17	198	7 38 31.51	114 11	51.69	57 15.80	+0.44	0.0070424	288	+19 —7
18	199	7 42 28.07	115 9	7.91	57 16.22	+0.53	0.0070136	313	+25 —4
19	200	7 46 24.63	116 6	24.54	57 16.63	+0.60	0.0069823	338	+25 0
20	201	7 50 21.18	117 3	41.56	57 17.02	+0.65	0.0069485	362	+22 +4
21	202	7 54 17.74	118 0	58.97	57 17.41	+0.67	0.0069123	386	+14 +7
22	203	7 58 14.30	118 58	16.75	57 17.78	+0.66	0.0068737	408	+ 4 +9
23	204	8 2 10.85	119 55	34.91	57 18.16	+0.63	0.0068329	429	— 7 +8
24	205	8 6 7.41	120 52	53.45	57 18.54	+0.57	0.0067900	450	—16 +6
25	206	8 10 3.97	121 50	12.40	57 18.95	+0.49	0.0067450	470	—23 +3
26	207	8 14 0.53	122 47	31.77	57 19.37	+0.39	0.0066980	488	—25 —1
27	208	8 17 57.08	123 44	51.60	57 19.83	+0.27	0.0066492	505	—23 —5
28	209	8 21 53.64	124 42	11.91	57 20.31	+0.15	0.0065987	520	—16 —8
29	210	8 25 50.20	125 39	32.76	57 20.85	+0.01	0.0065467	535	— 8 —9
30	211	8 29 46.75	126 36	54.21	57 21.45	—0.12	0.0064932	548	+ 1 —8
31	212	8 33 43.31	127 34	16.34	57 22.13	—0.24	0.0064384	561	+ 9 —6
Aug. 1	213	8 37 39.86	128 31	39.25	57 22.91	—0.34	0.0063823	572	+14 —2
2	214	8 41 36.42	129 29	3.03	57 23.78	—0.41	0.0063251	584	+15 +2
3	215	8 45 32.97	130 26	27.77	57 24.74	—0.46	0.0062667	597	+13 +5
4	216	8 49 29.53	131 23	53.58	57 25.81	—0.48	0.0062070	609	+ 7 +8
5	217	8 53 26.09	132 21	20.57	57 26.99	—0.47	0.0061461	622	— 1 +9
6	218	8 57 22.64	133 18	48.83	57 28.26	—0.42	0.0060839	636	— 8 +8
7	219	9 1 19.20	134 16	18.41	57 29.58	—0.34	0.0060203	652	—14 +5
8	220	9 5 15.75	135 13	49.36	57 30.95	—0.23	0.0059551	670	—16 +2
9	221	9 9 12.31	136 11	21.71	57 32.35	—0.11	0.0058881	688	—15 —2
10	222	9 13 8.86	137 8	55.48	57 33.77	+0.02	0.0058193	707	— 9 —6
11	223	9 17 5.42	138 6	30.67	57 35.19	+0.15	0.0057486	728	— 2 —8
12	224	9 21 1.98	139 4	7.27	57 36.60	+0.27	0.0056758	749	+ 7 —9
13	225	9 24 58.53	140 1	45.27	57 38.00	+0.39	0.0056009	770	+18 —8
14	226	9 28 55.09	140 59	24.64	57 39.37	+0.49	0.0055239	791	+23 —5
15	227	9 32 51.64	141 57	5.34	57 40.70	+0.57	0.0054448	813	+25 —1
16	228	9 36 48.19	142 54	47.35	57 42.01	+0.61	0.0053635	834	+23 +3
17	229	9 40 44.75	143 52	30.64	57 43.29	+0.63	0.0052801		+17 +6

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.
Aug. 16	Mo +4 ^m 13.74	9 41 ^m 1.93	^m 3 44.47	+13 53 11.7	^m 18 59.0	130.52	15 47.85
17	Di 4 1.65	9 44 46.40	3 43.94	13 34 12.7	19 11.9	130.37	15 48.03
18	Mi 3 49.04	9 48 30.34	3 43.43	13 15 0.8	19 24.6	130.22	15 48.22
19	Do 3 35.92	9 52 13.77	3 42.93	12 55 36.2	19 36.8	130.08	15 48.41
20	Fr 3 22.29	9 55 56.70	3 42.44	12 35 59.4	19 48.8	129.94	15 48.61
21	Sa +3 8.17	9 59 39.14	3 41.96	+12 16 10.6	20 0.3	129.80	15 48.81
22	So 2 53.57	10 3 21.10	3 41.48	11 56 10.3	20 11.7	129.66	15 49.01
23	Mo 2 38.50	10 7 2.58	3 41.02	11 35 58.6	20 22.6	129.53	15 49.21
24	Di 2 22.97	10 10 43.60	3 40.58	11 15 36.0	20 33.3	129.40	15 49.42
25	Mi 2 6.99	10 14 24.18	3 40.15	10 55 2.7	20 43.6	129.28	15 49.64
26	Do +1 50.59	10 18 4.33	3 39.73	+10 34 19.1	20 53.5	129.16	15 49.85
27	Fr 1 33.77	10 21 44.06	3 39.33	10 13 25.6	21 3.1	129.04	15 50.07
28	Sa 1 16.54	10 25 23.39	3 38.95	9 52 22.5	21 12.5	128.93	15 50.29
29	So 0 58.94	10 29 2.34	3 38.60	9 31 10.0	21 21.6	128.82	15 50.52
30	Mo 0 40.98	10 32 40.94	3 38.25	9 9 48.4	21 30.3	128.72	15 50.74
31	Di +0 22.68	10 36 19.19	3 37.93	+ 8 48 18.1	21 38.7	128.62	15 50.96
Sept. 1	Mi +0 4.06	10 39 57.12	3 37.64	8 26 39.4	21 46.8	128.53	15 51.19
2	Do -0 14.86	10 43 34.76	3 37.36	8 4 52.6	21 54.8	128.45	15 51.41
3	Fr 0 34.05	10 47 12.12	3 37.11	7 42 57.8	22 2.3	128.37	15 51.64
4	Sa 0 53.49	10 50 49.23	3 36.87	7 20 55.5	22 9.5	128.29	15 51.87
5	So -1 13.18	10 54 26.10	3 36.65	+ 6 58 46.0	22 16.5	128.22	15 52.10
6	Mo 1 33.08	10 58 2.75	3 36.46	6 36 29.5	22 23.1	128.15	15 52.33
7	Di 1 53.17	11 1 39.21	3 36.28	6 14 6.4	22 29.4	128.09	15 52.57
8	Mi 2 13.45	11 5 15.49	3 36.11	5 51 37.0	22 35.5	128.03	15 52.81
9	Do 2 33.89	11 8 51.60	3 35.97	5 29 1.5	22 41.1	127.98	15 53.05
10	Fr -2 54.47	11 12 27.57	3 35.84	+ 5 6 20.4	22 46.4	127.93	15 53.29
11	Sa 3 15.19	11 16 3.41	3 35.72	4 43 34.0	22 51.4	127.89	15 53.53
12	So 3 36.02	11 19 39.13	3 35.62	4 20 42.6	22 56.0	127.85	15 53.78
13	Mo 3 56.95	11 23 14.75	3 35.54	3 57 46.6	23 0.3	127.82	15 54.03
14	Di 4 17.96	11 26 50.29	3 35.48	3 34 46.3	23 4.2	127.80	15 54.29
15	Mi -4 39.04	11 30 25.77	3 35.43	+ 3 11 42.1	23 7.8	127.79	15 54.55
16	Do 5 0.16	11 34 1.20	3 35.39	2 48 34.3	23 11.0	127.78	15 54.81
17	Fr 5 21.32	11 37 36.59	3 35.39	2 25 23.3	23 13.9	127.78	15 55.07
18	Sa 5 42.49	11 41 11.98	3 35.39	2 2 9.4	23 16.4	127.78	15 55.34
19	So 6 3.66	11 44 47.37	3 35.40	1 38 53.0	23 18.5	127.79	15 55.60
20	Mo -6 24.81	11 48 22.77	3 35.45	+ 1 15 34.5	23 20.3	127.80	15 55.87
21	Di 6 45.91	11 51 58.22	3 35.51	0 52 14.2	23 21.8	127.82	15 56.15
22	Mi 7 6.95	11 55 33.73	3 35.59	0 28 52.4	23 22.9	127.85	15 56.42
23	Do 7 27.91	11 59 9.32	3 35.69	+ 0 5 29.5	23 23.6	127.88	15 56.69
24	Fr 7 48.78	12 2 45.01		- 0 17 54.1		127.92	15 56.97

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (
		Länge	Diff.	Breite			in °.or	dλ ds
Aug. 16	228	9 ^h 36 ^m 48.19	142° 54'	47.35	57 43.29	+0.61	0.0053635	834 +23 +3
17	229	9 40 44.75	143 52 30.64		57 44.56	+0.63	0.0052801	855 +17 +6
18	230	9 44 41.30	144 50 15.20		57 45.81	+0.63	0.0051946	875 + 8 +8
19	231	9 48 37.86	145 48 1.01		57 47.03	+0.60	0.0051071	893 - 3 +9
20	232	9 52 34.41	146 45 48.04		57 48.24	+0.55	0.0050178	911 -13 +7
21	233	9 56 30.97	147 43 36.28		57 49.44	+0.47	0.0049267	929 -21 +4
22	234	10 0 27.52	148 41 25.72		57 50.66	+0.37	0.0048338	945 -24 0
23	235	10 4 24.08	149 39 16.38		57 51.88	+0.26	0.0047393	960 -24 -4
24	236	10 8 20.63	150 37 8.26		57 53.11	+0.14	0.0046433	973 -19 -7
25	237	10 12 17.19	151 35 1.37		57 54.36	+0.02	0.0045460	986 -11 -9
26	238	10 16 13.74	152 32 55.73		57 55.64	-0.10	0.0044474	996 - 2 -9
27	239	10 20 10.29	153 30 51.37		57 56.97	-0.21	0.0043478	1005 + 6 -7
28	240	10 24 6.85	154 28 48.34		57 58.37	-0.31	0.0042473	1012 +13 -4
29	241	10 28 3.40	155 26 46.71		57 59.85	-0.39	0.0041461	1019 +15 0
30	242	10 31 59.96	156 24 46.56		58 1.43	-0.45	0.0040442	1025 +14 +4
31	243	10 35 56.51	157 22 47.99		58 3.10	-0.47	0.0039417	1030 + 9 +7
Sept. 1	244	10 39 53.06	158 20 51.09		58 4.86	-0.45	0.0038387	1035 + 2 +9
2	245	10 43 49.62	159 18 55.95		58 6.72	-0.40	0.0037352	1040 - 6 +8
3	246	10 47 46.17	160 17 2.67		58 8.66	-0.32	0.0036312	1046 -12 +6
4	247	10 51 42.72	161 15 11.33		58 10.66	-0.22	0.0035266	1054 -16 +3
5	248	10 55 39.28	162 13 21.99		58 12.71	-0.11	0.0034212	1062 -16 -1
6	249	10 59 35.83	163 11 34.70		58 14.78	+0.02	0.0033150	1072 -12 -5
7	250	11 3 32.38	164 9 49.48		58 16.86	+0.15	0.0032078	1082 - 4 -8
8	251	11 7 28.94	165 8 6.34		58 18.93	+0.28	0.0030996	1094 + 6 -9
9	252	11 11 25.49	166 6 25.27		58 20.99	+0.40	0.0029902	1107 +15 -8
10	253	11 15 22.04	167 4 46.26		58 23.02	+0.50	0.0028795	1119 +22 -6
11	254	11 19 18.60	168 3 9.28		58 25.01	+0.58	0.0027676	1133 +26 -2
12	255	11 23 15.15	169 1 34.29		58 26.97	+0.63	0.0026543	1146 +25 +2
13	256	11 27 11.70	170 0 1.26		58 28.89	+0.65	0.0025397	1159 +20 +5
14	257	11 31 8.26	170 58 30.15		58 30.79	+0.65	0.0024238	1172 +12 +8
15	258	11 35 4.81	171 57 0.94		58 32.65	+0.62	0.0023066	1185 + 1 +9
16	259	11 39 1.36	172 55 33.59		58 34.48	+0.57	0.0021881	1197 - 9 +8
17	260	11 42 57.92	173 54 8.07		58 36.28	+0.49	0.0020684	1208 -18 +5
18	261	11 46 54.47	174 52 44.35		58 38.04	+0.39	0.0019476	1218 -23 +2
19	262	11 50 51.02	175 51 22.39		58 39.77	+0.28	0.0018258	1227 -25 -2
20	263	11 54 47.58	176 50 2.16		58 41.48	+0.16	0.0017031	1236 -21 -6
21	264	11 58 44.13	177 48 43.64		58 43.18	+0.04	0.0015795	1242 -13 -8
22	265	12 2 40.68	178 47 26.82		58 44.87	-0.08	0.0014553	1248 - 5 -9
23	266	12 6 37.23	179 46 11.69		58 46.58	-0.20	0.0013305	1251 + 4 -8
24	267	12 10 33.79	180 44 58.27			-0.31	0.0012054	+11 -5

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
Sept. 23 Do	— 7 ^m 27.91	11 ^h 59 ^m 9.32	3 35.69	+ 0 5 29.5	23 23.6	127.88	15 56.69
24 Fr	7 48.78	12 2 45.01	3 35.81	— 0 17 54.1	23 24.0	127.92	15 56.97
25 Sa	8 9.52	12 6 20.82	3 35.95	0 41 18.1	23 24.1	127.96	15 57.25
26 So	8 30.12	12 9 56.77	3 36.12	1 4 42.2	23 23.8	128.01	15 57.52
27 Mo	8 50.56	12 13 32.89	3 36.30	1 28 6.0	23 23.2	128.07	15 57.80
28 Di	— 9 10.81	12 17 9.19	3 36.52	— 1 51 29.2	23 22.3	128.13	15 58.07
29 Mi	9 30.84	12 20 45.71	3 36.76	2 14 51.5	23 21.0	128.20	15 58.35
30 Do	9 50.63	12 24 22.47	3 37.03	2 38 12.5	23 19.5	128.27	15 58.62
Okt. 1 Fr	10 10.16	12 27 59.50	3 37.31	3 1 32.0	23 17.6	128.35	15 58.90
2 Sa	10 29.40	12 31 36.81	3 37.63	3 24 49.6	23 15.5	128.44	15 59.17
3 So	— 10 48.32	12 35 14.44	3 37.97	— 3 48 5.1	23 12.9	128.53	15 59.44
4 Mo	11 6.91	12 38 52.41	3 38.32	4 11 18.0	23 10.0	128.63	15 59.71
5 Di	11 25.14	12 42 30.73	3 38.71	4 34 28.0	23 6.8	128.73	15 59.98
6 Mi	11 42.99	12 46 9.44	3 39.10	4 57 34.8	23 3.3	128.84	16 0.25
7 Do	12 0.44	12 49 48.54	3 39.52	5 20 38.1	22 59.3	128.96	16 0.52
8 Fr	— 12 17.47	12 53 28.06	3 39.96	— 5 43 37.4	22 55.0	129.08	16 0.79
9 Sa	12 34.07	12 57 8.02	3 40.41	6 6 32.4	22 50.3	129.21	16 1.06
10 So	12 50.21	13 0 48.43	3 40.88	6 29 22.7	22 45.2	129.34	16 1.34
11 Mo	13 5.88	13 4 29.31	3 41.36	6 52 7.9	22 39.8	129.48	16 1.61
12 Di	13 21.07	13 8 10.67	3 41.87	7 14 47.7	22 33.9	129.62	16 1.88
13 Mi	— 13 35.76	13 11 52.54	3 42.39	— 7 37 21.6	22 27.6	129.77	16 2.15
14 Do	13 49.92	13 15 34.93	3 42.92	7 59 49.2	22 20.9	129.92	16 2.43
15 Fr	14 3.55	13 19 17.85	3 43.47	8 22 10.1	22 13.9	130.08	16 2.70
16 Sa	14 16.64	13 23 1.32	3 44.03	8 44 24.0	22 6.4	130.24	16 2.98
17 So	14 29.16	13 26 45.35	3 44.61	9 6 30.4	21 58.5	130.41	16 3.25
18 Mo	— 14 41.11	13 30 29.96	3 45.21	— 9 28 28.9	21 50.2	130.59	16 3.53
19 Di	14 52.46	13 34 15.17	3 45.81	9 50 19.1	21 41.5	130.77	16 3.81
20 Mi	15 3.20	13 38 0.98	3 46.44	10 12 0.6	21 32.4	130.95	16 4.08
21 Do	15 13.31	13 41 47.42	3 47.07	10 33 33.0	21 22.9	131.14	16 4.36
22 Fr	15 22.79	13 45 34.49	3 47.72	10 54 55.9	21 13.0	131.33	16 4.63
23 Sa	— 15 31.63	13 49 22.21	3 48.38	— 11 16 8.9	21 2.7	131.53	16 4.90
24 So	15 39.80	13 53 10.59	3 49.07	11 37 11.6	20 52.0	131.73	16 5.17
25 Mo	15 47.29	13 56 59.66	3 49.77	11 58 3.6	20 40.9	131.93	16 5.44
26 Di	15 54.07	14 0 49.43	3 50.48	12 18 44.5	20 29.4	132.14	16 5.71
27 Mi	16 0.14	14 4 39.91	3 51.21	12 39 13.9	20 17.6	132.35	16 5.97
28 Do	— 16 5.49	14 8 31.12	3 51.96	— 12 59 31.5	20 5.4	132.57	16 6.23
29 Fr	16 10.09	14 12 23.08	3 52.73	13 19 36.9	19 52.8	132.79	16 6.49
30 Sa	16 13.92	14 16 15.81	3 53.51	13 39 29.7	19 39.9	133.01	16 6.74
31 So	16 16.96	14 20 9.32	3 54.31	13 59 9.6	19 26.6	133.23	16 6.99
Nov. 1 Mo	16 19.21	14 24 3.63		14 18 36.2		133.46	16 7.24

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (C in o°.or dλ | dε
		Länge	Diff.	Breite			
Sept. 23	266 12 ^h 6 ^m 37.23	179° 46' 11.69	58' 46.58	-0.20	0.0013305	1251	+ 4 -8
24	267 12 10 33.79	180 44 58.27	58 48.29	-0.31	0.0012054	1254	+11 -5
25	268 12 14 30.34	181 43 46.56	58 50.02	-0.39	0.0010800	1254	+14 -1
26	269 12 18 26.89	182 42 36.58	58 51.79	-0.44	0.0009546	1252	+14 +3
27	270 12 22 23.45	183 41 28.37	58 53.65	-0.46	0.0008294	1250	+10 +6
28	271 12 26 20.00	184 40 22.02	58 55.59	-0.46	0.0007044	1246	+ 4 +8
29	272 12 30 16.55	185 39 17.61	58 57.61	-0.42	0.0005798	1241	- 4 +9
30	273 12 34 13.11	186 38 15.22	58 59.71	-0.34	0.0004557	1237	-11 +7
Okt. 1	274 12 38 9.66	187 37 14.93	59 1.89	-0.23	0.0003320	1232	-16 +4
2	275 12 42 6.21	188 36 16.82	59 4.14	-0.11	0.0002088	1229	-16 0
3	276 12 46 2.76	189 35 20.96	59 6.43	+0.01	0.0000859	1226	-14 -4
4	277 12 49 59.32	190 34 27.39	59 8.76	+0.14	9.9999633	1223	- 7 -7
5	278 12 53 55.87	191 33 36.15	59 11.10	+0.26	9.9998410	1222	+ 2 -9
6	279 12 57 52.42	192 32 47.25	59 13.44	+0.38	9.9997188	1223	+12 -9
7	280 13 1 48.98	193 32 0.69	59 15.77	+0.49	9.9995965	1224	+20 -7
8	281 13 5 45.53	194 31 16.46	59 18.08	+0.58	9.9994741	1225	+25 -4
9	282 13 9 42.09	195 30 34.54	59 20.34	+0.64	9.9993516	1228	+26 0
10	283 13 13 38.64	196 29 54.88	59 22.55	+0.66	9.9992288	1230	+23 +4
11	284 13 17 35.19	197 29 17.43	59 24.72	+0.65	9.9991058	1232	+14 +7
12	285 13 21 31.75	198 28 42.15	59 26.85	+0.63	9.9989826	1235	+ 5 +9
13	286 13 25 28.30	199 28 9.00	59 28.94	+0.58	9.9988591	1238	- 6 +8
14	287 13 29 24.85	200 27 37.94	59 30.97	+0.50	9.9987353	1240	-15 +6
15	288 13 33 21.41	201 27 8.91	59 32.96	+0.41	9.9986113	1241	-22 +3
16	289 13 37 17.96	202 26 41.87	59 34.88	+0.30	9.9984872	1243	-24 -1
17	290 13 41 14.51	203 26 16.75	59 36.74	+0.18	9.9983629	1243	-22 -5
18	291 13 45 11.07	204 25 53.49	59 38.57	+0.05	9.9982386	1242	-16 -8
19	292 13 49 7.62	205 25 32.06	59 40.34	-0.08	9.9981144	1241	- 7 -9
20	293 13 53 4.18	206 25 12.40	59 42.07	-0.20	9.9979903	1238	+ 1 -8
21	294 13 57 0.73	207 24 54.47	59 43.78	-0.31	9.9978665	1233	+ 8 -6
22	295 14 0 57.28	208 24 38.25	59 45.47	-0.40	9.9977432	1226	+14 -2
23	296 14 4 53.84	209 24 23.72	59 47.14	-0.45	9.9976206	1218	+15 +2
24	297 14 8 50.39	210 24 10.86	59 48.82	-0.48	9.9974988	1209	+12 +6
25	298 14 12 46.95	211 23 59.68	59 50.52	-0.48	9.9973779	1197	+ 6 +8
26	299 14 16 43.50	212 23 50.20	59 52.27	-0.45	9.9972582	1183	- 2 +9
27	300 14 20 40.05	213 23 42.47	59 54.09	-0.39	9.9971399	1169	- 9 +8
28	301 14 24 36.61	214 23 36.56	59 55.97	-0.30	9.9970230	1154	-15 +5
29	302 14 28 33.17	215 23 32.53	59 57.90	-0.18	9.9969076	1138	-17 +1
30	303 14 32 29.72	216 23 30.43	59 59.90	-0.05	9.9967938	1123	-16 -2
31	304 14 36 26.28	217 23 30.33	60 1.96	+0.09	9.9966815	1108	-10 -6
Nov. 1	305 14 40 22.83	218 23 32.29		+0.23	9.9965707		- 1 -8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.
Okt.	31 So	-16 ^m 16.96	14 ^h 20 ^m 9.32	^m 54.31	-13° 59' 9.6	19 26.6	133.23	16' 6.99
Nov.	1 Mo	16 19.21	14 24 3.63	3 55.11	14 18 36.2	19 12.8	133.46	16 7.24
	2 Di	16 20.65	14 27 58.74	3 55.93	14 37 49.0	18 58.8	133.69	16 7.48
	3 Mi	16 21.27	14 31 54.67	3 56.77	14 56 47.8	18 44.2	133.92	16 7.72
	4 Do	16 21.06	14 35 51.44	3 57.60	15 15 32.0	18 29.3	134.15	16 7.96
	5 Fr	-16 20.02	14 39 49.04	3 58.45	-15 34 1.3	18 14.0	134.38	16 8.20
	6 Sa	16 18.12	14 43 47.49	3 59.30	15 52 15.3	17 58.3	134.61	16 8.43
	7 So	16 15.38	14 47 46.79	4 0.15	16 10 13.6	17 42.2	134.85	16 8.66
	8 Mo	16 11.78	14 51 46.94	4 1.01	16 27 55.8	17 25.6	135.08	16 8.89
	9 Di	16 7.33	14 55 47.95	4 1.86	16 45 21.4	17 8.5	135.32	16 9.12
	10 Mi	-16 2.02	14 59 49.81	4 2.72	-17 2 29.9	16 51.2	135.56	16 9.34
	11 Do	15 55.85	15 3 52.53	4 3.58	17 19 21.1	16 33.3	135.80	16 9.57
	12 Fr	15 48.83	15 7 56.11	4 4.43	17 35 54.4	16 15.1	136.04	16 9.79
	13 Sa	15 40.96	15 12 0.54	4 5.27	17 52 9.5	15 56.4	136.28	16 10.01
	14 So	15 32.25	15 16 5.81	4 6.11	18 8 5.9	15 37.4	136.52	16 10.23
	15 Mo	-15 22.69	15 20 11.92	4 6.95	-18 23 43.3	15 17.9	136.75	16 10.44
	16 Di	15 12.30	15 24 18.87	4 7.79	18 39 1.2	14 58.0	136.99	16 10.66
	17 Mi	15 1.07	15 28 26.66	4 8.61	18 53 59.2	14 37.7	137.22	16 10.87
	18 Do	14 49.02	15 32 35.27	4 9.42	19 8 36.9	14 17.0	137.46	16 11.08
	19 Fr	14 36.15	15 36 44.69	4 10.23	19 22 53.9	13 56.0	137.69	16 11.29
	20 Sa	-14 22.48	15 40 54.92	4 11.02	-19 36 49.9	13 34.5	137.92	16 11.49
	21 So	14 8.02	15 45 5.94	4 11.80	19 50 24.4	13 12.7	138.14	16 11.69
	22 Mo	13 52.77	15 49 17.74	4 12.58	20 3 37.1	12 50.6	138.36	16 11.89
	23 Di	13 36.75	15 53 30.32	4 13.35	20 16 27.7	12 28.1	138.58	16 12.08
	24 Mi	13 19.96	15 57 43.67	4 14.11	20 28 55.8	12 5.3	138.79	16 12.27
	25 Do	-13 2.41	16 1 57.78	4 14.85	-20 41 1.1	11 42.2	139.00	16 12.45
	26 Fr	12 44.11	16 6 12.63	4 15.59	20 52 43.3	11 18.7	139.21	16 12.63
	27 Sa	12 25.08	16 10 28.22	4 16.32	21 4 2.0	10 54.9	139.41	16 12.80
	28 So	12 5.32	16 14 44.54	4 17.03	21 14 56.9	10 31.0	139.61	16 12.97
	29 Mo	11 44.84	16 19 1.57	4 17.73	21 25 27.9	10 6.6	139.80	16 13.13
	30 Di	-11 23.67	16 23 19.30	4 18.42	-21 35 34.5	9 42.0	139.99	16 13.29
Dez.	1 Mi	11 1.81	16 27 37.72	4 19.09	21 45 16.5	9 17.1	140.17	16 13.44
	2 Do	10 39.28	16 31 56.81	4 19.74	21 54 33.6	8 52.0	140.34	16 13.58
	3 Fr	10 16.09	16 36 16.55	4 20.37	22 3 25.6	8 26.5	140.51	16 13.72
	4 Sa	9 52.28	16 40 36.92	4 20.97	22 11 52.1	8 0.7	140.67	16 13.86
	5 So	-9 27.87	16 44 57.89	4 21.54	-22 19 52.8	7 34.8	140.82	16 13.99
	6 Mo	9 2.89	16 49 19.43	4 22.10	22 27 27.6	7 8.6	140.97	16 14.12
	7 Di	8 37.35	16 53 41.53	4 22.62	22 34 36.2	6 42.1	141.11	16 14.24
	8 Mi	8 11.28	16 58 4.15	4 23.12	22 41 18.3	6 15.4	141.24	16 14.36
	9 Do	7 44.72	17 2 27.27		22 47 33.7		141.36	16 14.48

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nut. (C in o°.or d l de
		Länge	Diff.	Breite			
Okt. 31	304 14 36 ^h 26.28	217° 23'	30.33	60'	+0.09	9.9966815	1108 —10 —6
Nov. 1	305 14 40 22.83	218 23	32.29	60 1.96	+0.23	9.9965707	1081 — 1 —8
2	306 14 44 19.39	219 23	36.35	60 4.06	+0.35	9.9964613	1094 + 9 —9
3	307 14 48 15.94	220 23	42.53	60 6.18	+0.46	9.9963532	1068 +18 —7
4	308 14 52 12.50	221 23	50.82	60 8.29	+0.55	9.9962464	1057 +24 —5
5	309 14 56 9.05	222 24	1.20	60 10.38	+0.62	9.9961407	1046 +26 —1
6	310 15 0 5.61	223 24	13.65	60 12.45	+0.66	9.9960361	1037 +24 +3
7	311 15 4 2.17	224 24	28.15	60 14.50	+0.67	9.9959324	1028 +18 +6
8	312 15 7 58.72	225 24	44.65	60 16.50	+0.65	9.9958296	1019 + 9 +9
9	313 15 11 55.28	226 25	3.09	60 18.44	+0.60	9.9957277	1011 — 2 +9
10	314 15 15 51.83	227 25	23.40	60 20.31	+0.53	9.9956266	1003 —12 +7
11	315 15 19 48.39	228 25	45.53	60 22.13	+0.43	9.9955263	994 —20 +4
12	316 15 23 44.94	229 26	9.43	60 23.90	+0.31	9.9954269	986 —23 0
13	317 15 27 41.50	230 26	35.02	60 25.59	+0.19	9.9953283	978 —23 —4
14	318 15 31 38.06	231 27	2.23	60 27.21	+0.06	9.9952305	970 —19 —7
15	319 15 35 34.61	232 27	30.99	60 28.76	—0.07	9.9951335	960 —10 —9
16	320 15 39 31.17	233 28	1.21	60 30.22	—0.19	9.9950375	950 — 2 —9
17	321 15 43 27.73	234 28	32.82	60 31.61	—0.31	9.9949425	939 + 6 —7
18	322 15 47 24.28	235 29	5.74	60 32.92	—0.41	9.9948486	926 +13 —3
19	323 15 51 20.84	236 29	39.91	60 34.17	—0.48	9.9947560	912 +14 0
20	324 15 55 17.40	237 30	15.29	60 35.38	—0.51	9.9946648	897 +13 +4
21	325 15 59 13.95	238 30	51.84	60 36.55	—0.52	9.9945751	879 + 7 +7
22	326 16 3 10.51	239 31	29.52	60 37.68	—0.50	9.9944872	861 + 1 +9
23	327 16 7 7.07	240 32	8.31	60 38.79	—0.44	9.9944011	840 — 8 +8
24	328 16 11 3.63	241 32	48.22	60 39.91	—0.35	9.9943171	817 —13 +6
25	329 16 15 0.18	242 33	29.28	60 41.06	—0.24	9.9942354	794 —17 +3
26	330 16 18 56.74	243 34	11.52	60 42.24	—0.11	9.9941560	770 —16 —1
27	331 16 22 53.30	244 34	54.99	60 43.47	+0.02	9.9940790	746 —12 —5
28	332 16 26 49.86	245 35	39.73	60 44.74	+0.16	9.9940044	720 — 4 —8
29	333 16 30 46.41	246 36	25.77	60 46.04	+0.30	9.9939324	697 + 5 —9
30	334 16 34 42.97	247 37	13.16	60 47.39	+0.42	9.9938627	673 +15 —8
Dez. 1	335 16 38 39.53	248 38	1.94	60 48.78	+0.52	9.9937954	651 +23 —6
2	336 16 42 36.09	249 38	52.12	60 50.18	+0.60	9.9937303	629 +26 —2
3	337 16 46 32.64	250 39	43.68	60 51.56	+0.64	9.9936674	609 +26 +2
4	338 16 50 29.20	251 40	36.61	60 52.93	+0.65	9.9936065	589 +21 +6
5	339 16 54 25.76	252 41	30.87	60 54.26	+0.64	9.9935476	571 +12 +8
6	340 16 58 22.32	253 42	26.40	60 55.53	+0.60	9.9934905	553 + 2 +9
7	341 17 2 18.88	254 43	23.15	60 56.75	+0.53	9.9934352	535 — 8 +8
8	342 17 6 15.44	255 44	21.08	60 57.93	+0.45	9.9933817	518 —18 +5
9	343 17 10 11.99	256 45	20.14	60 59.06	+0.35	9.9933299	—22 +1

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Dif.	Scheinb. Dekl.	Dif.	Durchg.-Dauer St. - Zt.	Halbm.
Dez. 8 Mi	-8 ^m 11.28	16 ^h 58 ^m 4.15	^m 23.12	-22° 41' 18.3	6 15.4	141.24	16' 14.36
9 Do	7 44.72	17 2 27.27	4 23.58	22 47 33.7	5 48.5	141.36	16 14.48
10 Fr	7 17.70	17 6 50.85	4 24.01	22 53 22.2	5 21.4	141.48	16 14.59
11 Sa	6 50.25	17 11 14.86	4 24.41	22 58 43.6	4 54.1	141.59	16 14.70
12 So	6 22.40	17 15 39.27	4 24.78	23 3 37.7	4 26.7	141.69	16 14.81
13 Mo	-5 54.18	17 20 4.05	4 25.11	-23 8 4.4	3 59.0	141.79	16 14.91
14 Di	5 25.63	17 24 29.16	4 25.40	23 12 3.4	3 31.3	141.88	16 15.01
15 Mi	4 56.79	17 28 54.56	4 25.65	23 15 34.7	3 3.4	141.95	16 15.11
16 Do	4 27.70	17 33 20.21	4 25.87	23 18 38.1	2 35.4	142.02	16 15.20
17 Fr	3 58.38	17 37 46.08	4 26.06	23 21 13.5	2 7.2	142.08	16 15.29
18 Sa	-3 28.88	17 42 12.14	4 26.21	-23 23 20.7	1 39.1	142.13	16 15.37
19 So	2 59.23	17 46 38.35	4 26.32	23 24 59.8	1 10.9	142.17	16 15.45
20 Mo	2 29.47	17 51 4.67	4 26.39	23 26 10.7	0 42.6	142.20	16 15.53
21 Di	1 59.64	17 55 31.06	4 26.43	23 26 53.3	0 14.3	142.22	16 15.60
22 Mi	1 29.77	17 59 57.49	4 26.44	23 27 7.6	0 14.0	142.23	16 15.66
23 Do	0 59.88	18 4 23.93	4 26.43	-23 26 53.6	0 42.3	142.24	16 15.72
24 Fr	0 30.01	18 8 50.36	4 26.38	23 26 11.3	1 10.5	142.24	16 15.77
25 Sa	0 0.19	18 13 16.74	4 26.29	23 25 0.8	1 38.8	142.23	16 15.82
26 So	+0 29.54	18 17 43.03	4 26.19	23 23 22.0	2 6.9	142.21	16 15.86
27 Mo	0 59.17	18 22 9.22	4 26.05	23 21 15.1	2 35.0	142.17	16 15.89
28 Di	+1 28.66	18 26 35.27	4 25.88	-23 18 40.1	3 3.0	142.12	16 15.92
29 Mi	1 57.98	18 31 1.15	4 25.69	23 15 37.1	3 31.0	142.07	16 15.94
30 Do	2 27.11	18 35 26.84	4 25.46	23 12 6.1	3 58.9	142.01	16 15.95
31 Fr	2 56.02	18 39 52.30	4 25.21	23 8 7.2	4 26.6	141.94	16 15.96
32 Sa	3 24.67	18 44 17.51	4 24.92	23 3 40.6	4 54.2	141.86	16 15.97
33 So	+3 53.03	18 48 42.43		-22 58 46.4		141.77	16 15.96

Frühjahrsäquinoktium	März 20	^h 19
Sommersolstitium	Juni 21	15
Herbstäquinoktium	Sept. 23	6
Wintersolstitium	Dez. 22	0

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Äqu. 1909.0			Lg. Rad. v.	Diff.	Nnt. (
		Länge	Diff.	Breite			in o°.01	dλ	dε
Dez. 8	342 17 ^h 6 ^m 15.44	255° 44' 21.08	6' 59.06	+0.45	9.9933817	518	-18	+5
9	343 17 10 11.99	256 45 20.14	61 0.13	+0.35	9.9933299	503	-22	+1
10	344 17 14 8.55	257 46 20.27	61 1.10	+0.23	9.9932796	487	-24	-3
11	345 17 18 5.11	258 47 21.37	61 1.99	+0.10	9.9932309	471	-20	-6
12	346 17 22 1.67	259 48 23.36	61 2.80	-0.04	9.9931838	456	-13	-8
13	347 17 25 58.23	260 49 26.16	61 3.52	-0.17	9.9931382	441	- 5	-9
14	348 17 29 54.79	261 50 29.68	61 4.14	-0.28	9.9930941	426	+ 4	-7
15	349 17 33 51.35	262 51 33.82	61 4.65	-0.38	9.9930515	410	+10	-5
16	350 17 37 47.91	263 52 38.47	61 5.08	-0.46	9.9930105	393	+14	-1
17	351 17 41 44.46	264 53 43.55	61 5.43	-0.51	9.9929712	374	+14	+3
18	352 17 45 41.02	265 54 48.98	61 5.71	-0.53	9.9929338	355	+10	+7
19	353 17 49 37.58	266 55 54.69	61 5.94	-0.52	9.9928983	334	+ 3	+9
20	354 17 53 34.14	267 57 0.63	61 6.12	-0.47	9.9928649	311	- 6	+9
21	355 17 57 30.70	268 58 6.75	61 6.26	-0.39	9.9928338	287	-12	+7
22	356 18 1 27.26	269 59 13.01	61 6.41	-0.28	9.9928051	262	-17	+4
23	357 18 5 23.82	271 0 19.42	61 6.57	-0.16	9.9927789	235	-17	0
24	358 18 9 20.37	272 1 25.99	61 6.74	-0.03	9.9927554	207	-14	-4
25	359 18 13 16.93	273 2 32.73	61 6.93	+0.11	9.9927347	179	- 7	-7
26	360 18 17 13.49	274 3 39.66	61 7.17	+0.24	9.9927168	150	+ 2	-9
27	361 18 21 10.05	275 4 46.83	61 7.45	+0.36	9.9927018	121	+12	-9
28	362 18 25 6.61	276 5 54.28	61 7.76	+0.46	9.9926897	92	+20	-7
29	363 18 29 3.17	277 7 2.04	61 8.07	+0.54	9.9926805	65	+26	-3
30	364 18 32 59.73	278 8 10.11	61 8.38	+0.59	9.9926740	38	+26	+1
31	365 18 36 56.28	279 9 18.49	61 8.69	+0.62	9.9926702	13	+23	+5
32	366 18 40 52.84	280 10 27.18	61 8.99	+0.62	9.9926689	12	+15	+7
33	367 18 44 49.40	281 11 36.17		+0.59	9.9926701		+ 5	+9

Perigäum Jan. 2 19^h
 Apogäum Juli 3 17

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Jan. 0.0	+		—		—	
0.5	0.160 9337 86196		0.889 8698 13552		0.386 0283 5879	
1.0	0.169 5533 86060	+2360	0.888 5146 14240	+ 379	0.385 4404 6179	+165
1.5	0.178 1593 85918		0.887 0906 14928		0.384 8225 6478	
2.0	0.186 7511 85769	2352	0.885 5978 15614	418	0.384 1747 6777	182
2.5	0.195 3280 85615		0.884 0364 16298		0.383 4970 7074	
3.0	0.203 8895 85454	2343	0.882 4066 16981	457	0.382 7896 7370	199
3.5	0.212 4349 85287		0.880 7085 17663		0.382 0526 7666	
4.0	0.220 9636 85113	2334	0.878 9422 18343	495	0.381 2860 7961	216
4.5	0.229 4749 84934		0.877 1079 19022		0.380 4899 8256	
5.0	0.237 9683 84749	2324	0.875 2057 19700	533	0.379 6643 8549	232
5.5	+		—		—	
6.0	0.246 4432 84557		0.873 2357 20377		0.378 8094 8843	
6.5	0.254 8989 84359	+2313	0.871 1980 21052	+ 571	0.377 9251 9135	+248
7.0	0.263 3348 84155		0.869 0928 21724		0.377 0116 9427	
7.5	0.271 7503 83945	2302	0.866 9204 22396	608	0.376 0689 9719	265
8.0	0.280 1448 83729		0.864 6808 23066		0.375 0970 10009	
8.5	0.288 5177 83507	2290	0.862 3742 23733	646	0.374 0961 10299	281
9.0	0.296 8684 83278		0.860 0009 24400		0.373 0662 10587	
9.5	0.305 1962 83043	2277	0.857 5609 25065	683	0.372 0075 10875	297
10.0	0.313 5005 82802		0.855 0544 25729		0.370 9200 11163	
10.5	0.321 7807 82555	2263	0.852 4815 26390	720	0.369 8037 11449	313
11.0	+		—		—	
11.5	0.330 0362 82301		0.849 8425 27048		0.368 6588 11735	
12.0	0.338 2663 82042	+2249	0.847 1377 27705	+ 756	0.367 4853 12020	+329
12.5	0.346 4705 81776		0.844 3672 28362		0.366 2833 12304	
13.0	0.354 6481 81504	2234	0.841 5310 29017	793	0.365 0529 12588	345
13.5	0.362 7985 81226		0.838 6293 29668		0.363 7941 12870	
14.0	0.370 9211 80941	2219	0.835 6625 30319	829	0.362 5071 13152	361
14.5	0.379 0152 80649		0.832 6306 30967		0.361 1919 13432	
15.0	0.387 0801 80352	2203	0.829 5339 31613	865	0.359 8487 13712	377
15.5	0.395 1153 80049		0.826 3726 32257		0.358 4775 13991	
16.0	0.403 1202 79739	2186	0.823 1469 32898	901	0.357 0784 14269	392
16.5	+		—		—	
17.0	0.411 0941 79423		0.819 8571 33537		0.355 6515 14546	
17.5	0.419 0364 79101	+2168	0.816 5034 34174	+ 937	0.354 1969 14823	+408
18.0	0.426 9465 78771		0.813 0860 34809		0.352 7146 15097	
18.5	0.434 8236 78435	2150	0.809 6051 35441	972	0.351 2049 15371	423
19.0	0.442 6671 78094		0.806 0610 36070		0.349 6678 15644	
19.5	0.450 4765 77746	2131	0.802 4540 36696	1007	0.348 1034 15915	438
20.0	0.458 2511 77392		0.798 7844 37321		0.346 5119 16187	
20.5	0.465 9903 77031	2111	0.795 0523 37942	1042	0.344 8932 16456	453
21.0	0.473 6934		0.791 2581		0.343 2476	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Jan. 19.0	+ 0.473 6934		—		—	
19.5	76663 0.481 3597	+2091	0.791 2581	38560	0.343 2476	16724
20.0	76290 0.488 9887		0.787 4021	39175	0.341 5752	16990
20.5	75909 0.496 5796	2070	0.783 4846	39788	0.339 8762	17257
21.0	75523 0.504 1319		0.779 5058	40396	0.338 1505	17522
21.5	75129 0.511 6448	2048	0.775 4662	41002	0.336 3983	17784
22.0	74730 0.519 1178		0.771 3660	41605	0.334 6199	18045
22.5	74324 0.526 5502	2026	0.767 2055	42203	0.332 8154	18304
23.0	73912 0.533 9414		0.762 9852	42797	0.330 9850	18563
23.5	73496 0.541 2910	2003	0.758 7055	43388	0.329 1287	18820
24.0	73072 0.548 5982		0.754 3667	43975	0.327 2467	19075
24.5	72643 0.555 8625	+1980	0.749 9692	44557	0.325 3392	19328
25.0	72207 0.563 0832		0.745 5135	45136	0.323 4064	19579
25.5	71766 0.570 2598	1956	0.740 9999	45711	0.321 4485	19829
26.0	71319 0.577 3917		0.736 4288	46281	0.319 4656	20077
26.5	70867 0.584 4784	1931	0.731 8007	46847	0.317 4579	20323
27.0	70410 0.591 5194		0.727 1160	47410	0.315 4256	20568
27.5	69948 0.598 5142	1906	0.722 3750	47968	0.313 3688	20810
28.0	69481 0.605 4623		0.717 5782	48522	0.311 2878	21051
28.5	69009 0.612 3632	1880	0.712 7260	49070	0.309 1827	21289
29.0	68532 0.619 2164		0.707 8190	49615	0.307 0538	21526
29.5	68050 0.626 0214	+1853	0.702 8575	50157	0.304 9012	21762
30.0	67563 0.632 7777		0.697 8418	50693	0.302 7250	21994
30.5	67071 0.639 4848	1826	0.692 7725	51226	0.300 5256	22226
31.0	66576 0.646 1424		0.687 6499	51755	0.298 3030	22454
31.5	66075 0.652 7499	1798	0.682 4744	52279	0.296 0576	22681
Fehr. 1.0	65569 0.659 3068		0.677 2465	52798	0.293 7895	22907
1.5	65059 0.665 8127	1770	0.671 9667	53314	0.291 4988	23131
2.0	64545 0.672 2672		0.666 6353	53825	0.289 1857	23352
2.5	64027 0.678 6699	1741	0.661 2528	54332	0.286 8505	23572
3.0	63504 0.685 0203		0.655 8196	54836	0.284 4933	23791
3.5	62977 0.691 3180	+1712	0.650 3360	55335	0.282 1142	24007
4.0	62445 0.697 5625		0.644 8025	55830	0.279 7135	24222
4.5	61909 0.703 7534	1682	0.639 2195	56321	0.277 2913	24435
5.0	61368 0.709 8902		0.633 5874	56807	0.274 8478	24645
5.5	60823 0.715 9725	1652	0.627 9067	57290	0.272 3833	24854
6.0	60274 0.721 9999		0.622 1777	57767	0.269 8979	25062
6.5	59720 0.727 9719	1621	0.616 4010	58241	0.267 3917	25267
7.0	59162 0.733 8881		0.610 5769	58711	0.264 8650	25470
			0.604 7058		0.262 3180	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Febr. 7.0	+ 0.733 8881		—		—	
7.5	58600 0.739 7481	+1590	0.604 7058	59176	0.262 3180	25671
8.0	58034 0.745 5515		0.598 7882	59636	0.259 7509	25870
8.5	57463 0.751 2978	1558	0.592 8246	60092	0.257 1639	26068
9.0	56889 0.756 9867		0.586 8154	60544	0.254 5571	26263
9.5	56310 0.762 6177	1526	0.580 7610	60992	0.251 9308	26458
10.0	55726 0.768 1903		0.574 6618	61435	0.249 2850	26649
10.5	55138 0.773 7041	1493	0.568 5183	61874	0.246 6201	26839
11.0	54546 0.779 1587		0.562 3309	62307	0.243 9362	27027
11.5	53951 0.784 5538	1460	0.556 1002	62737	0.241 2335	27214
	+ 53351		—	63162	—	27397
12.0	52747 0.789 8889	+1426	0.543 5103	63582	0.235 7724	27579
12.5	52139 0.795 1636		0.537 1521	63998	0.233 0145	27759
13.0	51527 0.800 3775	1392	0.530 7523	64408	0.230 2386	27936
13.5	50911 0.805 5302		0.524 3115	64814	0.227 4450	28112
14.0	50290 0.810 6213	1358	0.517 8301	65214	0.224 6338	28287
14.5	49665 0.815 6503		0.511 3087	65610	0.221 8051	28458
15.0	49036 0.820 6168	1323	0.504 7477	66002	0.218 9593	28628
15.5	48404 0.825 5204		0.498 1475	66387	0.216 0965	28796
16.0	47767 0.830 3608	1288	0.491 5088	66768	0.213 2169	28961
16.5	47126 0.835 1375		0.484 8320	67144	0.210 3208	29123
	+ 46480		—	67514	—	29284
17.0	45831 0.839 8501	+1252	0.478 1176	67878	0.207 4085	29443
17.5	45179 0.844 4981		0.471 3662	68238	0.204 4801	29599
18.0	44523 0.849 0812	1216	0.464 5784	68591	0.201 5358	29752
18.5	43864 0.853 5991		0.457 7546	68939	0.198 5759	29904
19.0	43201 0.858 0514	1179	0.450 8955	69281	0.195 6007	30052
19.5	42534 0.862 4378		0.444 0016	69617	0.192 6103	30199
20.0	41863 0.866 7579	1142	0.437 0735	69947	0.189 6051	30343
20.5	41190 0.871 0113		0.430 1118	70271	0.186 5852	30484
21.0	40514 0.875 1976	1105	0.423 1171	70589	0.183 5509	30622
21.5	39835 0.879 3166		0.416 0900	70902	0.180 5025	30758
	+ 39153	+1068	—	71207	—	30891
22.0	38469 0.883 3680		0.409 0311	71508	0.177 4403	31021
22.5	37782 0.887 3515	1030	0.401 9409	71801	0.174 3645	31149
23.0	37093 0.891 2668		0.394 8202	72089	0.171 2754	31275
23.5	36401 0.895 1137	992	0.387 6694	72370	0.168 1733	31397
24.0	35707 0.898 8919		0.380 4893	72647	0.165 0584	31517
24.5	35011 0.902 6012	953	0.373 2804	72918	0.161 9309	31634
25.0			0.366 0434		0.158 7912	
25.5			0.358 7787		0.155 6395	
26.0			0.351 4869		0.152 4761	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
	+		—		—	
Febr. 26.0	0.913 3131 34314		0.351 4869 73182		0.152 4761 31749	
26.5	0.916 7445 33615	+914	0.344 1687 73439	+2048	0.149 3012 31861	+891
27.0	0.920 1060 32913		0.336 8248 73692		0.146 1151 31970	
27.5	0.923 3973 32210	875	0.329 4556 73939	2063	0.142 9181 32078	897
28.0	0.926 6183 31505		0.322 0617 74181		0.139 7103 32183	
28.5	0.929 7688 30799	836	0.314 6436 74416	2077	0.136 4920 32285	903
März 1.0	0.932 8487 30090		0.307 2020 74646		0.133 2635 32385	
1.5	0.935 8577 29381	796	0.299 7374 74870	2091	0.130 0250 32482	909
2.0	0.938 7958 28669		0.292 2504 75089		0.126 7768 32577	
2.5	0.941 6627 27955	756	0.284 7415 75302	2104	0.123 5191 32668	915
	+		—		—	
3.0	0.944 4582 27241		0.277 2113 75510		0.120 2523 32758	
3.5	0.947 1823 26526	+716	0.269 6603 75711	+2116	0.116 9765 32846	+920
4.0	0.949 8349 25808		0.262 0892 75908		0.113 6919 32931	
4.5	0.952 4157 25088	676	0.254 4984 76098	2128	0.110 3988 33013	925
5.0	0.954 9245 24368		0.246 8886 76284		0.107 0975 33093	
5.5	0.957 3613 23648	635	0.239 2602 76464	2139	0.103 7882 33170	930
6.0	0.959 7261 22924		0.231 6138 76638		0.100 4712 33246	
6.5	0.962 0185 22200	595	0.223 9500 76806	2149	0.097 1466 33319	935
7.0	0.964 2385 21474		0.216 2694 76969		0.093 8147 33389	
7.5	0.966 3859 20747	554	0.208 5725 77126	2159	0.090 4758 33457	939
	+		—		—	
8.0	0.968 4606 20018		0.200 8599 77279		0.087 1301 33523	
8.5	0.970 4624 19289	+513	0.193 1320 77426	+2168	0.083 7778 33587	+943
9.0	0.972 3913 18558		0.185 3894 77566		0.080 4191 33647	
9.5	0.974 2471 17827	472	0.177 6328 77702	2177	0.077 0544 33705	947
10.0	0.976 0298 17094		0.169 8626 77831		0.073 6839 33761	
10.5	0.977 7392 16360	431	0.162 0795 77955	2185	0.070 3078 33815	951
11.0	0.979 3752 15624		0.154 2840 78074		0.066 9263 33865	
11.5	0.980 9376 14887	389	0.146 4766 78187	2192	0.063 5398 33913	954
12.0	0.982 4263 14150		0.138 6579 78294		0.060 1485 33961	
12.5	0.983 8413 13412	348	0.130 8285 78396	2198	0.056 7524 34006	957
	+		—		—	
13.0	0.985 1825 12672		0.122 9889 78492		0.053 3518 34047	
13.5	0.986 4497 11931	+306	0.115 1397 78581	+2204	0.049 9471 34085	+959
14.0	0.987 6428 11190		0.107 2816 78666		0.046 5386 34122	
14.5	0.988 7618 10447	264	0.099 4150 78745	2209	0.043 1264 34156	961
15.0	0.989 8065 9704		0.091 5405 78817		0.039 7108 34188	
15.5	0.990 7769 8959	222	0.083 6588 78884	2214	0.036 2920 34216	963
16.0	0.991 6728 8214		0.075 7704 78944		0.032 8704 34243	
16.5	0.992 4942 7467	180	0.067 8760 78999	2218	0.029 4461 34267	965
17.0	0.993 2409		0.059 9761		0.026 0194	

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
	+		-		-	
März 17.0	0.993 2409	6719	0.059 9761	79048	0.026 0194	34288
17.5	0.993 9128	5972	0.052 0713	79090	0.022 5906	34307
18.0	0.994 5100	5224	0.044 1623	79127	0.019 1599	34323
18.5	0.995 0324	4476	0.036 2496	79156	0.015 7276	34337
19.0	0.995 4800	3726	0.028 3340	79179	0.012 2939	34347
19.5	0.995 8526	2977	0.020 4161	79196	0.008 8592	34354
20.0	0.996 1503	2227	0.012 4965	79207	0.005 4238	34359
20.5	0.996 3730	1478	0.004 5758	79212	0.001 9879	34362
	+		+		+	
21.0	0.996 5208	728	0.003 3454	79209	0.001 4483	34362
21.5	0.996 5936	22	0.011 2663	79200	0.004 8845	34358
	+		+		+	
22.0	0.996 5914	771	0.019 1863	79186	0.008 3203	34352
22.5	0.996 5143	1519	0.027 1049	79164	0.011 7555	34343
23.0	0.996 3624	2267	0.035 0213	79136	0.015 1898	34331
23.5	0.996 1357	3013	0.042 9349	79101	0.018 6229	34317
24.0	0.995 8344	3759	0.050 8450	79060	0.022 0546	34299
24.5	0.995 4585	4505	0.058 7510	79014	0.025 4845	34279
25.0	0.995 0080	5249	0.066 6524	78960	0.028 9124	34256
25.5	0.994 4831	5991	0.074 5484	78902	0.032 3380	34231
26.0	0.993 8840	6733	0.082 4386	78837	0.035 7611	34203
26.5	0.993 2107	7474	0.090 3223	78766	0.039 1814	34172
	+		+		+	
27.0	0.992 4633	8212	0.098 1989	78689	0.042 5986	34138
27.5	0.991 6421	8950	0.106 0678	78606	0.046 0124	34103
28.0	0.990 7471	9686	0.113 9284	78517	0.049 4227	34064
28.5	0.989 7785	10420	0.121 7801	78424	0.052 8291	34023
29.0	0.988 7365	11152	0.129 6225	78324	0.056 2314	33980
29.5	0.987 6213	11884	0.137 4549	78219	0.059 6294	33934
30.0	0.986 4329	12614	0.145 2768	78108	0.063 0228	33886
30.5	0.985 1715	13342	0.153 0876	77992	0.066 4114	33836
31.0	0.983 8373	14068	0.160 8868	77870	0.069 7950	33782
31.5	0.982 4305	14794	0.168 6738	77744	0.073 1732	33726
	+		+		+	
April 1.0	0.980 9511	15517	0.176 4482	77611	0.076 5458	33668
1.5	0.979 3994	16239	0.184 2093	77472	0.079 9126	33609
2.0	0.977 7755	16959	0.191 9565	77329	0.083 2735	33546
2.5	0.976 0796	17678	0.199 6894	77180	0.086 6281	33481
3.0	0.974 3118	18395	0.207 4074	77027	0.089 9762	33414
3.5	0.972 4723	19110	0.215 1101	76867	0.093 3176	33344
4.0	0.970 5613	19823	0.222 7968	76702	0.096 6520	33272
4.5	0.968 5790	20534	0.230 4670	76533	0.099 9792	33199
5.0	0.966 5256		0.238 1203		0.103 2991	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
April 5.0	+ 0.966 5256 21245		+ 0.238 1203 76358		+ 0.103 2991 33123	
5.5	0.964 4011 21952	- 654	0.245 7561 76178	+2155	0.106 6114 33045	+937
6.0	0.962 2059 22658		0.253 3739 75992		0.109 9159 32964	
6.5	0.959 9401 23362	694	0.260 9731 75801	2145	0.113 2123 32880	933
7.0	0.957 6039 24064		0.268 5532 75605		0.116 5003 32795	
7.5	0.955 1975 24765	734	0.276 1137 75405	2134	0.119 7798 32707	928
8.0	0.952 7210 25464		0.283 6542 75198		0.123 0505 32618	
8.5	0.950 1746 26161	774	0.291 1740 74987	2123	0.126 3123 32526	923
9.0	0.947 5585 26856		0.298 6727 74771		0.129 5649 32432	
9.5	0.944 8729 27549	814	0.306 1498 74549	2111	0.132 8081 32336	918
10.0	+ 0.942 1180 28240		+ 0.313 6047 74322		+ 0.136 0417 32237	
10.5	0.939 2940 28929	- 853	0.321 0369 74090	+2099	0.139 2654 32137	+913
11.0	0.936 4011 29616		0.328 4459 73853		0.142 4791 32034	
11.5	0.933 4395 30301	892	0.335 8312 73610	2086	0.145 6825 31928	907
12.0	0.930 4094 30984		0.343 1922 73362		0.148 8753 31821	
12.5	0.927 3110 31666	931	0.350 5284 73108	2072	0.152 0574 31712	901
13.0	0.924 1444 32345		0.357 8392 72849		0.155 2286 31599	
13.5	0.920 9099 33021	970	0.365 1241 72585	2058	0.158 3885 31485	895
14.0	0.917 6078 33695		0.372 3826 72316		0.161 5370 31368	
14.5	0.914 2383 34368	1008	0.379 6142 72041	2043	0.164 6738 31250	889
15.0	+ 0.910 8015 35038		+ 0.386 8183 71760		+ 0.167 7988 31128	
15.5	0.907 2977 35706	- 1046	0.393 9943 71475	+2027	0.170 9116 31005	+882
16.0	0.903 7271 36371		0.401 1418 71183		0.174 0121 30879	
16.5	0.900 0900 37033	1084	0.408 2601 70885	2011	0.177 1000 30750	875
17.0	0.896 3867 37692		0.415 3486 70583		0.180 1750 30619	
17.5	0.892 6175 38348	1122	0.422 4069 70274	1994	0.183 2369 30486	868
18.0	0.888 7827 39001		0.429 4343 69960		0.186 2855 30350	
18.5	0.884 8826 39651	1159	0.436 4303 69641	1977	0.189 3205 30211	860
19.0	0.880 9175 40298		0.443 3944 69316		0.192 3416 30071	
19.5	0.876 8877 40942	1196	0.450 3260 68987	1959	0.195 3487 29928	852
20.0	+ 0.872 7935 41582		+ 0.457 2247 68651		+ 0.198 3415 29784	
20.5	0.868 6353 42217	- 1233	0.464 0898 68310	+1941	0.201 3199 29636	+844
21.0	0.864 4136 42850		0.470 9208 67964		0.204 2835 29486	
21.5	0.860 1286 43478	1269	0.477 7172 67613	1922	0.207 2321 29334	836
22.0	0.855 7808 44103		0.484 4785 67257		0.210 1655 29180	
22.5	0.851 3705 44724	1305	0.491 2042 66896	1902	0.213 0835 29023	827
23.0	0.846 8981 45339		0.497 8938 66530		0.215 9858 28864	
23.5	0.842 3642 45952	1340	0.504 5468 66160	1882	0.218 8722 28703	818
24.0	0.837 7690		0.511 1628		0.221 7425	

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
	+		+		+	
April 24.0	0.837 7690	46561	0.511 1628	65784	0.221 7425	28541
24.5	0.833 1129	47166	0.517 7412	65405	0.224 5966	28376
25.0	0.828 3963	47766	0.524 2817	65020	0.227 4342	28209
25.5	0.823 6197	48362	0.530 7837	64632	0.230 2551	28040
26.0	0.818 7835	48955	0.537 2469	64239	0.233 0591	27870
26.5	0.813 8880	49542	0.543 6708	63843	0.235 8461	27697
27.0	0.808 9338	50126	0.550 0551	63441	0.238 6158	27522
27.5	0.803 9212	50706	0.556 3992	63036	0.241 3680	27346
28.0	0.798 8506	51281	0.562 7028	62626	0.244 1026	27169
28.5	0.793 7225	51853	0.568 9654	62213	0.246 8195	26989
29.0	+		+		+	
29.5	0.788 5372	52420	0.575 1867	61795	0.249 5184	26808
30.0	0.783 2952	52983	0.581 3662	61373	0.252 1992	26624
30.5	0.777 9969	53543	0.587 5035	60947	0.254 8616	26439
Mai 30.5	0.772 6426	54097	0.593 5982	60518	0.257 5055	26253
1.0	0.767 2329	54648	0.599 6500	60084	0.260 1308	26064
1.5	0.761 7681	55195	0.605 6584	59648	0.262 7372	25874
2.0	0.756 2486	55737	0.611 6232	59207	0.265 3246	25682
2.5	0.750 6749	56274	0.617 5439	58762	0.267 8928	25489
3.0	0.745 0475	56808	0.623 4201	58314	0.270 4417	25294
3.5	0.739 3667	57338	0.629 2515	57861	0.272 9711	25098
4.0	+		+		+	
4.5	0.733 6329	57863	0.635 0376	57405	0.275 4809	24900
5.0	0.727 8466	58385	0.640 7781	56946	0.277 9709	24700
5.5	0.722 0081	58902	0.646 4727	56482	0.280 4409	24499
6.0	0.716 1179	59416	0.652 1209	56015	0.282 8908	24296
6.5	0.710 1763	59926	0.657 7224	55545	0.285 3204	24092
7.0	0.704 1837	60430	0.663 2769	55071	0.287 7296	23886
7.5	0.698 1407	60930	0.668 7840	54593	0.290 1182	23679
8.0	0.692 0477	61427	0.674 2433	54112	0.292 4861	23471
8.5	0.685 9050	61920	0.679 6545	53627	0.294 8332	23260
9.0	0.679 7130	62407	0.685 0172	53139	0.297 1592	23048
9.5	+		+		+	
10.0	0.673 4723	62892	0.690 3311	52647	0.299 4640	22835
10.5	0.667 1831	63371	0.695 5958	52152	0.301 7475	22620
11.0	0.660 8460	63846	0.700 8110	51652	0.304 0095	22403
11.5	0.654 4614	64319	0.705 9762	51148	0.306 2498	22185
12.0	0.648 0295	64786	0.711 0910	50641	0.308 4683	21965
12.5	0.641 5509	65249	0.716 1551	50130	0.310 6648	21745
13.0	0.635 0260	65708	0.721 1681	49615	0.312 8393	21522
13.5	0.628 4552	66161	0.726 1296	49098	0.314 9915	21298
14.0	0.621 8391		0.731 0394		0.317 1213	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Mai 13.0	+ 0.621 8391 66611		+ 0.731 0394 48576		+ 0.317 1213 21071	
13.5	0.615 1780 67055	-1955	0.735 8970 48051	+1374	0.319 2284 20844	+597
14.0	0.608 4725 67495		0.740 7021 47522		0.321 3128 20615	
14.5	0.601 7230 67930	1980	0.745 4543 46989	1344	0.323 3743 20384	584
15.0	0.594 9300 68361		0.750 1532 46452		0.325 4127 20151	
15.5	0.588 0939 68785	2005	0.754 7984 45911	1314	0.327 4278 19918	571
16.0	0.581 2154 69205		0.759 3895 45367		0.329 4196 19682	
16.5	0.574 2949 69620	2029	0.763 9262 44820	1283	0.331 3878 19444	558
17.0	0.567 3329 70029		0.768 4082 44268		0.333 3322 19206	
17.5	0.560 3300 70433	2053	0.772 8350 43714	1252	0.335 2528 18966	545
18.0	+ 0.553 2867 70832		+ 0.777 2064 43156		+ 0.337 1494 18725	
18.5	0.546 2035 71224	-2076	0.781 5220 42596	+1220	0.339 0219 18482	+531
19.0	0.539 0811 71612		0.785 7816 42032		0.340 8701 18237	
19.5	0.531 9199 71993	2098	0.789 9848 41464	1188	0.342 6938 17991	517
20.0	0.524 7206 72370		0.794 1312 40894		0.344 4929 17743	
20.5	0.517 4836 72739	2120	0.798 2206 40322	1156	0.346 2672 17495	503
21.0	0.510 2097 73103		0.802 2528 39745		0.348 0167 17245	
21.5	0.502 8994 73462	2141	0.806 2273 39166	1124	0.349 7412 16994	489
22.0	0.495 5532 73815		0.810 1439 38585		0.351 4406 16742	
22.5	0.488 1717 74161	2162	0.814 0024 38002	1091	0.353 1148 16488	474
23.0	+ 0.480 7556 74502		+ 0.817 8026 37416		+ 0.354 7636 16234	
23.5	0.473 3054 74836	-2182	0.821 5442 36829	+1058	0.356 3870 15978	+460
24.0	0.465 8218 75166		0.825 2271 36239		0.357 9848 15722	
24.5	0.458 3052 75489	2201	0.828 8510 35647	1024	0.359 5570 15466	445
25.0	0.450 7563 75807		0.832 4157 35052		0.361 1036 15207	
25.5	0.443 1756 76119	2220	0.835 9209 34456	990	0.362 6243 14948	431
26.0	0.435 5637 76426		0.839 3665 33857		0.364 1191 14688	
26.5	0.427 9211 76727	2238	0.842 7522 33257	956	0.365 5879 14427	416
27.0	0.420 2484 77022		0.846 0779 32654		0.367 0306 14166	
27.5	0.412 5462 77312	2256	0.849 3433 32050	922	0.368 4472 13903	401
28.0	+ 0.404 8150 77595		+ 0.852 5483 31443		+ 0.369 8375 13640	
28.5	0.397 0555 77874	-2273	0.855 6926 30836	+ 887	0.371 2015 13377	+386
29.0	0.389 2681 78147		0.858 7762 30226		0.372 5392 13111	
29.5	0.381 4534 78413	2289	0.861 7988 29616	852	0.373 8503 12846	371
30.0	0.373 6121 78675		0.864 7604 29003		0.375 1349 12579	
30.5	0.365 7446 78932	2305	0.867 6607 28389	817	0.376 3928 12313	356
31.0	0.357 8514 79181		0.870 4996 27774		0.377 6241 12046	
31.5	0.349 9333 79426	2320	0.873 2770 27156	782	0.378 8287 11778	341
Juni 1.0	0.341 9907		0.875 9926		0.380 0065	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Juni	1.0	+ 0.341 9907	+ 0.875 9926		+ 0.380 0065	
	1.5	79666 0.334 0241	26537 0.878 6463	+746	11509 0.381 1574	+325
	2.0	79900 0.326 0341	25917 0.881 2380		11240 0.382 2814	
	2.5	80129 0.318 0212	25295 0.883 7675	710	10970 0.383 3784	310
	3.0	80352 0.309 9860	24673 0.886 2348		10699 0.384 4483	
	3.5	80570 0.301 9290	24048 0.888 6396	674	10428 0.385 4911	294
	4.0	80782 0.293 8508	23422 0.890 9818		10156 0.386 5067	
	4.5	80989 0.285 7519	22795 0.893 2613	638	9885 0.387 4952	278
	5.0	81191 0.277 6328	22166 0.895 4779		9612 0.388 4564	
	5.5	81388 0.269 4940	21536 0.897 6315	602	9339 0.389 3903	262
		81580	20905		9066	
	6.0	+ 0.261 3360	+ 0.899 7220		+ 0.390 2969	
	6.5	81766 0.253 1594	20272 0.901 7492	+566	8791 0.391 1760	+246
	7.0	81946 0.244 9648	19637 0.903 7129		8515 0.392 0275	
	7.5	82122 0.236 7526	19002 0.905 6131	529	8240 0.392 8515	230
	8.0	82291 0.228 5235	18365 0.907 4496		7964 0.393 6479	
	8.5	82456 0.220 2779	17726 0.909 2222	492	7688 0.394 4167	214
	9.0	82615 0.212 0164	17085 0.910 9307		7410 0.395 1577	
	9.5	82769 0.203 7395	16443 0.912 5750	455	7133 0.395 8710	198
	10.0	82916 0.195 4479	15800 0.914 1550		6854 0.396 5564	
10.5	83058 0.187 1421	15155 0.915 6705	418	6574 0.397 2138	182	
	83195	14509		6295		
11.0	+ 0.178 8226	+ 0.917 1214		+ 0.397 8433		
11.5	83326 0.170 4900	13862 0.918 5076	+381	6014 0.398 4447	+165	
12.0	83451 0.162 1449	13213 0.919 8289		5733 0.399 0180		
12.5	83570 0.153 7879	12563 0.921 0852	344	5451 0.399 5631	149	
13.0	83682 0.145 4197	11911 0.922 2763		5168 0.400 0799		
13.5	83790 0.137 0407	11258 0.923 4021	306	4886 0.400 5685	133	
14.0	83894 0.128 6517	10605 0.924 4626		4603 0.401 0288		
14.5	83984 0.120 2533	9950 0.925 4576	269	4319 0.401 4607	117	
15.0	84072 0.111 8461	9293 0.926 3869		4036 0.401 8643		
15.5	84153 0.103 4308	8637 0.927 2506	231	3750 0.402 2393	100	
	84229	7980		3465		
16.0	+ 0.095 0079	+ 0.928 0486		+ 0.402 5858		
16.5	84298 0.086 5781	7322 0.928 7808	+194	3180 0.402 9038	+ 84	
17.0	84360 0.078 1421	6663 0.929 4471		2894 0.403 1932		
17.5	84416 0.069 7005	6005 0.930 0476	156	2608 0.403 4540	68	
18.0	84465 0.061 2540	5345 0.930 5821		2323 0.403 6863		
18.5	84509 0.052 8031	4685 0.931 0506	118	2036 0.403 8899	52	
19.0	84545 0.044 3486	4025 0.931 4531		1749 0.404 0648		
19.5	84575 0.035 8911	3365 0.931 7896	81	1463 0.404 2111	35	
20.0	84599 0.027 4312	2705 0.932 0601		1176 0.404 3287		

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
	+		+		+	
Juni 20.0	0.027 4312 84616		0.932 0601 2044		0.404 3287 889	
20.5	0.018 9696 84628	-2476	0.932 2645 1385	+ 43	0.404 4176 603	+ 19
21.0	0.010 5068 84632		0.932 4030 726		0.404 4779 316	
21.5	0.002 0436 84631	2477	0.932 4756 66	+ 5	0.404 5095 30	+ 2
	—		+		+	
22.0	0.006 4195 84623		0.932 4822 592		0.404 5125 256	
22.5	0.014 8818 84610	2477	0.932 4230 1251	- 33	0.404 4869 541	- 14
23.0	0.023 3428 84590		0.932 2979 1909		0.404 4328 827	
23.5	0.031 8018 84563	2476	0.932 1070 2566	70	0.404 3501 1113	31
24.0	0.040 2581 84532		0.931 8504 3223		0.404 2388 1398	
24.5	0.048 7113 84494	2474	0.931 5281 3880	108	0.404 0990 1683	47
	—		+		+	
25.0	0.057 1607 84449		0.931 1401 4535		0.403 9307 1967	
25.5	0.065 6056 84400	-2472	0.930 6866 5190	-146	0.403 7340 2252	- 64
26.0	0.074 0456 84344		0.930 1676 5843		0.403 5088 2537	
26.5	0.082 4800 84282	2469	0.929 5833 6496	184	0.403 2551 2820	80
27.0	0.090 9082 84214		0.928 9337 7149		0.402 9731 3103	
27.5	0.099 3296 84142	2465	0.928 2188 7801	222	0.402 6628 3387	97
28.0	0.107 7438 84063		0.927 4387 8452		0.402 3241 3669	
28.5	0.116 1501 83979	2461	0.926 5935 9102	259	0.401 9572 3952	113
29.0	0.124 5480 83888		0.925 6833 9751		0.401 5620 4234	
29.5	0.132 9368 83793	2456	0.924 7082 10398	297	0.401 1386 4515	129
	—		+		+	
30.0	0.141 3161 83691		0.923 6684 11045		0.400 6871 4795	
Juli 30.5	0.149 6852 83584	-2450	0.922 5639 11692	-334	0.400 2076 5075	-146
1.0	0.158 0436 83471		0.921 3947 12336		0.399 7001 5355	
1.5	0.166 3907 83352	2444	0.920 1611 12981	372	0.399 1646 5635	162
2.0	0.174 7259 83229		0.918 8630 13624		0.398 6011 5913	
2.5	0.183 0488 83101	2437	0.917 5006 14266	409	0.398 0098 6191	178
3.0	0.191 3589 82968		0.916 0740 14906		0.397 3907 6470	
3.5	0.199 6557 82829	2429	0.914 5834 15546	446	0.396 7437 6747	194
4.0	0.207 9386 82684		0.913 0288 16185		0.396 0690 7024	
4.5	0.216 2070 82535	2420	0.911 4103 16823	483	0.395 3666 7300	210
	—		+		+	
5.0	0.224 4605 82379		0.909 7280 17461		0.394 6366 7576	
5.5	0.232 6984 82219	-2411	0.907 9819 18097	-520	0.393 8790 7852	-226
6.0	0.240 9203 82052		0.906 1722 18733		0.393 0938 8128	
6.5	0.249 1255 81881	2401	0.904 2989 19367	557	0.392 2810 8403	242
7.0	0.257 3136 81704		0.902 3622 20001		0.391 4407 8677	
7.5	0.265 4840 81521	2391	0.900 3621 20635	593	0.390 5730 8951	258
8.0	0.273 6361 81332		0.898 2986 21266		0.389 6779 9225	
8.5	0.281 7693 81139	2380	0.896 1720 21897	630	0.388 7554 9498	274
9.0	0.289 8832		0.893 9823		0.387 8056	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Juli 9.0	— 0.289 8832		+		+	
9.5	80939 0.297 9771	—2368	0.893 9823	22527	0.387 8056	9771
10.0	80734 0.306 0505		0.891 7296	23155	0.386 8285	10043
10.5	80523 0.314 1028	2356	0.889 4141	23783	0.385 8242	10315
11.0	80306 0.322 1334		0.887 0358	24409	0.384 7927	10586
11.5	80082 0.330 1416	2343	0.884 5949	25035	0.383 7341	10857
12.0	79853 0.338 1269		0.882 0914	25659	0.382 6484	11128
12.5	79618 0.346 0887	2329	0.879 5255	26282	0.381 5356	11398
13.0	79376 0.354 0263		0.876 8973	26902	0.380 3958	11666
13.5	79130 0.361 9393	2315	0.874 2071	27521	0.379 2292	11935
14.0	78876 0.369 8269		0.871 4550	28137	0.378 0357	12202
14.5	78617 0.377 6886	—2300	0.868 6413	28753	0.376 8155	12469
15.0	78352 0.385 5238		0.865 7660	29366	0.375 5686	12736
15.5	78080 0.393 3318	2284	0.862 8294	29979	0.374 2950	13001
16.0	77803 0.401 1121		0.859 8315	30588	0.372 9949	13266
16.5	77519 0.408 8640	2267	0.856 7727	31196	0.371 6683	13530
17.0	77230 0.416 5870		0.853 6531	31800	0.370 3153	13793
17.5	76935 0.424 2805	2250	0.850 4731	32403	0.368 9360	14054
18.0	76633 0.431 9438		0.847 2328	33004	0.367 5306	14314
18.5	76327 0.439 5765	2232	0.843 9324	33601	0.366 0992	14573
19.0	76014 0.447 1779		0.840 5723	34195	0.364 6419	14832
19.5	75696 0.454 7475	—2214	0.837 1528	34787	0.363 1587	15089
20.0	75373 0.462 2848		0.833 6741	35377	0.361 6498	15346
20.5	75043 0.469 7891	2195	0.830 1364	35965	0.360 1152	15601
21.0	74709 0.477 2600		0.826 5399	36548	0.358 5551	15854
21.5	74368 0.484 6968	2176	0.822 8851	37130	0.356 9697	16107
22.0	74023 0.492 0991		0.819 1721	37708	0.355 3590	16358
22.5	73672 0.499 4663	2156	0.815 4013	38284	0.353 7232	16608
23.0	73315 0.506 7978		0.811 5729	38855	0.352 0624	16856
23.5	72954 0.514 0932	2135	0.807 6874	39424	0.350 3768	17104
24.0	72588 0.521 3520		0.803 7450	39991	0.348 6664	17349
24.5	72217 0.528 5737	—2114	0.799 7459	40554	0.346 9315	17594
25.0	71840 0.535 7577		0.795 6905	41115	0.345 1721	17838
25.5	71458 0.542 9035	2092	0.791 5790	41673	0.343 3883	18080
26.0	71072 0.550 0107		0.787 4117	42226	0.341 5803	18321
26.5	70680 0.557 0787	2069	0.783 1891	42777	0.339 7482	18560
27.0	70285 0.564 1072		0.778 9114	43324	0.337 8922	18797
27.5	69884 0.571 0956	2046	0.774 5790	43868	0.336 0125	19033
28.0	69478 0.578 0434		0.770 1922	44408	0.334 1092	19267
			0.765 7514		0.332 1825	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
	—		+		+	
Juli 28.0	0.578 0434	66068	0.765 7514	44946	0.332 1825	19501
28.5	0.584 9502	68654	0.761 2568	45481	0.330 2324	19734
29.0	0.591 8156	68235	0.756 7087	46012	0.328 2590	19964
29.5	0.598 6391	67812	0.752 1075	46540	0.326 2626	20193
30.0	0.605 4203	67383	0.747 4535	47066	0.324 2433	20420
30.5	0.612 1586	66951	0.742 7469	47588	0.322 2013	20646
31.0	0.618 8537	66515	0.737 9881	48106	0.320 1367	20871
31.5	0.625 5052	66075	0.733 1775	48621	0.318 0496	21094
Aug. 1.0	0.632 1127	65629	0.728 3154	49134	0.315 9402	21316
1.5	0.638 6756	65180	0.723 4020	49643	0.313 8086	21536
	—		+		+	
2.0	0.645 1936	64726	0.718 4377	50149	0.311 6550	21755
2.5	0.651 6662	64269	0.713 4228	50652	0.309 4795	21974
3.0	0.658 0931	63806	0.708 3576	51152	0.307 2821	22191
3.5	0.664 4737	63340	0.703 2424	51648	0.305 0630	22406
4.0	0.670 8077	62868	0.698 0776	52142	0.302 8224	22619
4.5	0.677 0945	62393	0.692 8634	52633	0.300 5605	22832
5.0	0.683 3338	61913	0.687 6001	53122	0.298 2773	23043
5.5	0.689 5251	61429	0.682 2879	53606	0.295 9730	23252
6.0	0.695 6680	60940	0.676 9273	54088	0.293 6478	23461
6.5	0.701 7620	60447	0.671 5185	54565	0.291 3017	23668
	—		+		+	
7.0	0.707 8067	59948	0.666 0620	55040	0.288 9349	23874
7.5	0.713 8015	59445	0.660 5580	55512	0.286 5475	24078
8.0	0.719 7460	58937	0.655 0068	55980	0.284 1397	24281
8.5	0.725 6397	58424	0.649 4088	56445	0.281 7116	24483
9.0	0.731 4821	57907	0.643 7643	56905	0.279 2633	24683
9.5	0.737 2728	57385	0.638 0738	57362	0.276 7950	24880
10.0	0.743 0113	56858	0.632 3376	57814	0.274 3070	25077
10.5	0.748 6971	56327	0.626 5562	58263	0.271 7993	25271
11.0	0.754 3298	55791	0.620 7299	58709	0.269 2722	25464
11.5	0.759 9089	55250	0.614 8590	59150	0.266 7258	25656
	—		+		+	
12.0	0.765 4339	54705	0.608 9440	59586	0.264 1602	25845
12.5	0.770 9044	54156	0.602 9854	60019	0.261 5757	26032
13.0	0.776 3200	53602	0.596 9835	60448	0.258 9725	26219
13.5	0.781 6802	53043	0.590 9387	60872	0.256 3506	26403
14.0	0.786 9845	52481	0.584 8515	61291	0.253 7103	26586
14.5	0.792 2326	51914	0.578 7224	61705	0.251 0517	26766
15.0	0.797 4240	51344	0.572 5519	62116	0.248 3751	26944
15.5	0.802 5584	50768	0.566 3403	62521	0.245 6807	27121
16.0	0.807 6352		0.560 0882		0.242 9686	

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
Aug. 16.0	—		+		+	
16.5	0.807 6352	50189	0.560 0882	62922	0.242 9686	27295
17.0	0.812 6541	49607	0.553 7960	63317	0.240 2391	27467
17.5	0.817 6148	49020	0.547 4643	63709	0.237 4924	27637
18.0	0.822 5168	48429	0.541 0934	64097	0.234 7287	27805
18.5	0.827 3597	47835	0.534 6837	64479	0.231 9482	27972
19.0	0.832 1432	47237	0.528 2358	64856	0.229 1510	28135
19.5	0.836 8669	46636	0.521 7502	65229	0.226 3375	28297
20.0	0.841 5305	46031	0.515 2273	65596	0.223 5078	28457
20.5	0.846 1336	45424	0.508 6677	65958	0.220 6621	28614
21.0	—	44813	0.502 0719	66315	0.217 8007	28770
21.5	0.855 1573	44197	+		+	
22.0	0.859 5770	43580	0.495 4404	66668	0.214 9237	28923
22.5	0.863 9350	42959	0.488 7736	67015	0.212 0314	29074
23.0	0.868 2309	42334	0.482 0721	67358	0.209 1240	29222
23.5	0.872 4643	41707	0.475 3363	67695	0.206 2018	29369
24.0	0.876 6350	41077	0.468 5668	68029	0.203 2649	29514
24.5	0.880 7427	40444	0.461 7639	68356	0.200 3135	29656
25.0	0.884 7871	39809	0.454 9283	68679	0.197 3479	29796
25.5	0.888 7680	39170	0.448 0604	68997	0.194 3683	29934
26.0	0.892 6850	38530	0.441 1607	69309	0.191 3749	30069
26.5	—	37886	0.434 2298	69617	0.188 3680	30203
27.0	0.896 5380	37241	+		+	
27.5	0.900 3266	36593	0.427 2681	69920	0.185 3477	30335
28.0	0.904 0507	35944	0.420 2761	70218	0.182 3142	30463
28.5	0.907 7100	35291	0.413 2543	70510	0.179 2679	30590
29.0	0.911 3044	34636	0.406 2033	70799	0.176 2089	30715
29.5	0.914 8335	33980	0.399 1234	71083	0.173 1374	30837
30.0	0.918 2971	33321	0.392 0151	71361	0.170 0537	30957
30.5	0.921 6951	32658	0.384 8790	71634	0.166 9580	31076
31.0	0.925 0272	31993	0.377 7156	71903	0.163 8504	31193
31.5	0.928 2930	31327	0.370 5253	72167	0.160 7311	31307
Sept. 1.0	—	30659	0.363 3086	72426	0.157 6004	31419
1.5	0.931 4923	29987	+		+	
2.0	0.934 6250	29314	0.356 0660	72681	0.154 4585	31529
2.5	0.937 6909	28638	0.348 7979	72932	0.151 3056	31638
3.0	0.940 6896	27959	0.341 5047	73179	0.148 1418	31744
3.5	0.943 6210	27279	0.334 1868	73420	0.144 9674	31848
4.0	0.946 4848	26597	0.326 8448	73656	0.141 7826	31950
	0.949 2807	25914	0.319 4792	73888	0.138 5876	32050
	0.952 0086	25229	0.312 0904	74115	0.135 3826	32148
	0.954 6683	24544	0.304 6789	74337	0.132 1678	32245
			0.297 2452		0.128 9433	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Sept. 4.0	0.954 6683	25911	+	0.297 2452	+	0.128 9433
4.5	0.957 2594	25224	-769	0.289 7897	74555	0.125 7094
5.0	0.959 7818	24533		0.282 3130	74767	0.122 4664
5.5	0.962 2351	23839	729	0.274 8155	74975	0.119 2144
6.0	0.964 6190	23143		0.267 2979	75176	0.115 9536
6.5	0.966 9333	22445	689	0.259 7605	75374	0.112 6843
7.0	0.969 1778	21745		0.252 2040	75565	0.109 4067
7.5	0.971 3523	21041	649	0.244 6289	75751	0.106 1210
8.0	0.973 4564	20335		0.237 0357	75932	0.102 8274
8.5	0.975 4899	19628	609	0.229 4249	76108	0.099 5261
9.0	0.977 4527	18918		0.221 7972	76277	0.096 2174
9.5	0.979 3445	18207	-568	0.214 1530	76442	0.092 9016
10.0	0.981 1652	17494		0.206 4930	76600	0.089 5789
10.5	0.982 9146	16778	528	0.198 8177	76753	0.085 5789
11.0	0.984 5924	16061		0.191 1276	76901	0.082 2496
11.5	0.986 1985	15342	-487	0.183 4234	77042	0.082 9139
12.0	0.987 7327	14622		0.175 7058	77176	0.079 5720
12.5	0.989 1949	13899	446	0.167 9752	77306	0.076 2242
13.0	0.990 5848	13175		0.160 2323	77429	0.072 8708
13.5	0.991 9023	12451	405	0.152 4776	77547	0.069 5120
14.0	0.993 1474	11724		0.144 7117	77659	0.066 1480
14.5	0.994 3198	10997	-364	0.136 9353	77764	0.062 7791
15.0	0.995 4195	10269		0.129 1489	77864	0.059 4056
15.5	0.996 4464	9539	322	0.121 3531	77958	0.056 0278
16.0	0.997 4003	8809		0.113 5485	78046	0.052 6459
16.5	0.998 2812	8078	281	0.105 7356	78129	0.049 2601
17.0	0.999 0890	7346		0.097 9152	78204	0.045 8708
17.5	0.999 8236	6613	239	0.090 0878	78274	0.042 4781
18.0	1.000 4849	5880		0.082 2540	78338	0.039 0823
18.5	1.001 0729	5147	197	0.074 4144	78396	0.035 6838
19.0	1.001 5876	4413		0.066 5696	78448	0.032 2827
19.5	1.002 0289	3679	-156	0.058 7202	78494	0.028 8793
20.0	1.002 3968	2944		0.050 8669	78533	0.025 4739
20.5	1.002 6912	2208	114	0.043 0101	78568	0.022 0668
21.0	1.002 9120	1473		0.035 1506	78595	0.018 6582
21.5	1.003 0593	738	72	0.027 2888	78618	0.015 2484
22.0	1.003 1331	3		0.019 4253	78635	0.011 8376
22.5	1.003 1334	731	-31	0.011 5608	78645	0.008 4262
23.0	1.003 0603			0.003 6958	78650	0.005 0143

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o	
Sept. 23.0	—	—	+	—	+	—	
	1.003 0603	1466	0.003 6958	78649	0.001 6022	34121	
	—	—	—	—	—	—	
	23.5	1.002 9137 2201	+ 11	0.004 1691 78643	-2241	0.001 8099 34118	- 974
	24.0	1.002 6936 2935		0.012 0334 78630		0.005 2217 34112	
	24.5	1.002 4001 3669	53	0.019 8964 78612	2240	0.008 6329 34104	974
	25.0	1.002 0332 4402		0.027 7576 78589		0.012 0433 34093	
	25.5	1.001 5930 5135	95	0.035 6165 78560	2238	0.015 4526 34081	973
	26.0	1.001 0795 5867		0.043 4725 78525		0.018 8607 34065	
	26.5	1.000 4928 6598	136	0.051 3250 78486	2235	0.022 2672 34047	972
27.0	0.999 8330 7330		0.059 1736 78440		0.025 6719 34027		
27.5	0.999 1000 8060	178	0.067 0176 78389	2232	0.029 0746 34005	970	
—	—	—	—	—	—	—	
28.0	0.998 2940 8790		0.074 8565 78333		0.032 4751 33980		
28.5	0.997 4150 9520	+219	0.082 6898 78273	-2228	0.035 8731 33953	-969	
29.0	0.996 4630 10250		0.090 5171 78208		0.039 2684 33924		
29.5	0.995 4380 10980	261	0.098 3379 78136	2224	0.042 6608 33893	967	
30.0	0.994 3400 11708		0.106 1515 78059		0.046 0501 33859		
30.5	0.993 1692 12437	302	0.113 9574 77976	2219	0.049 4360 33823	965	
Okt. 1.0	0.991 9255 13166		0.121 7550 77888		0.052 8183 33785		
	1.5	0.990 6089 13893	344	0.129 5438 77796	2213	0.056 1968 33744	963
	2.0	0.989 2196 14621		0.137 3234 77698		0.059 5712 33702	
	2.5	0.987 7575 15349	385	0.145 0932 77594	2207	0.062 9414 33657	960
	—	—	—	—	—	—	—
	3.0	0.986 2226 16075		0.152 8526 77486		0.066 3071 33609	
	3.5	0.984 6151 16802	+426	0.160 6012 77371	-2200	0.069 6680 33560	-957
	4.0	0.982 9349 17529		0.168 3383 77249		0.073 0240 33507	
	4.5	0.981 1820 18254	467	0.176 0632 77121	2192	0.076 3747 33452	954
	5.0	0.979 3566 18979		0.183 7753 76989		0.079 7199 33395	
5.5	0.977 4587 19704	508	0.191 4742 76852	2184	0.083 0594 33336	950	
6.0	0.975 4883 20429		0.199 1594 76708		0.086 3930 33273		
6.5	0.973 4454 21152	549	0.206 8302 76559	2175	0.089 7203 33209	946	
7.0	0.971 3302 21874		0.214 4861 76403		0.093 0412 33142		
7.5	0.969 1428 22595	590	0.222 1264 76242	2166	0.096 3554 33071	942	
—	—	—	—	—	—	—	
8.0	0.966 8833 23316		0.229 7506 76074		0.099 6625 32998		
8.5	0.964 5517 24035	+631	0.237 3580 75899	-2156	0.102 9623 32923	-937	
9.0	0.962 1482 24754		0.244 9479 75719		0.106 2546 32846		
9.5	0.959 6728 25470	671	0.252 5198 75532	2145	0.109 5392 32765	932	
10.0	0.957 1258 26186		0.260 0730 75340		0.112 8157 32682		
10.5	0.954 5072 26899	711	0.267 6070 75142	2133	0.116 0839 32597	927	
11.0	0.951 8173 27611		0.275 1212 74937		0.119 3436 32509		
11.5	0.949 0562 28322	751	0.282 6149 74728	2121	0.122 5945 32418	922	
12.0	0.946 2240		0.290 0877		0.125 8363		

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
Okt. 12.0	0.946 2240	29030	0.290 0877	74512	0.125 8363	32324
12.5	0.943 3210	29737	0.297 5389	74290	0.129 0687	32229
13.0	0.940 3473	30442	0.304 9679	74061	0.132 2916	32130
13.5	0.937 3031	31144	0.312 3740	73827	0.135 5046	32028
14.0	0.934 1887	31844	0.319 7567	73587	0.138 7074	31924
14.5	0.931 0043	32543	0.327 1154	73342	0.141 8998	31818
15.0	0.927 7500	33239	0.334 4496	73090	0.145 0816	31709
15.5	0.924 4261	33933	0.341 7586	72833	0.148 2525	31594
16.0	0.921 0328	34624	0.349 0419	72570	0.151 4123	31483
16.5	0.917 5704	35312	0.356 2989	72300	0.154 5606	31367
17.0	0.914 0392	35999	0.363 5289	72025	0.157 6973	31248
17.5	0.910 4393	36682	0.370 7314	71745	0.160 8221	31126
18.0	0.906 7711	37362	0.377 9059	71458	0.163 9347	31002
18.5	0.903 0349	38040	0.385 0517	71166	0.167 0349	30875
19.0	0.899 2309	38715	0.392 1683	70868	0.170 1224	30746
19.5	0.895 3594	39385	0.399 2551	70566	0.173 1970	30614
20.0	0.891 4209	40053	0.406 3117	70257	0.176 2584	30480
20.5	0.887 4156	40719	0.413 3374	69944	0.179 3064	30344
21.0	0.883 3437	41381	0.420 3318	69624	0.182 3408	30205
21.5	0.879 2056	42039	0.427 2942	69300	0.185 3613	30065
22.0	0.875 0017	42695	0.434 2242	68971	0.188 3678	29921
22.5	0.870 7322	43346	0.441 1213	68636	0.191 3599	29776
23.0	0.866 3976	43995	0.447 9849	68297	0.194 3375	29628
23.5	0.861 9981	44641	0.454 8146	67952	0.197 3003	29478
24.0	0.857 5340	45283	0.461 6098	67603	0.200 2481	29327
24.5	0.853 0057	45920	0.468 3701	67248	0.203 1808	29172
25.0	0.848 4137	46555	0.475 0949	66889	0.206 0980	29016
25.5	0.843 7582	47187	0.481 7838	66526	0.208 9996	28858
26.0	0.839 0395	47814	0.488 4364	66158	0.211 8854	28697
26.5	0.834 2581	48438	0.495 0522	65785	0.214 7551	28535
27.0	0.829 4143	49060	0.501 6307	65407	0.217 6086	28371
27.5	0.824 5083	49677	0.508 1714	65025	0.220 4457	28205
28.0	0.819 5406	50292	0.514 6739	64639	0.223 2662	28037
28.5	0.814 5114	50904	0.521 1378	64247	0.226 0699	27867
29.0	0.809 4210	51512	0.527 5625	63852	0.228 8566	27696
29.5	0.804 2698	52117	0.533 9477	63452	0.231 6262	27522
30.0	0.799 0581	52719	0.540 2929	63046	0.234 3784	27346
30.5	0.793 7862	53318	0.546 5975	62637	0.237 1130	27168
31.0	0.788 4544		0.552 8612		0.239 8298	

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
Okt. 31.0	0.788 4544	53914	0.552 8612	62223	0.239 8298	26983
31.5	0.783 0630	54506	0.559 0835	61803	0.242 5286	26807
Nov. 1.0	0.777 6124	55095	0.565 2638	61378	0.245 2093	26622
1.5	0.772 1029	55680	0.571 4016	60949	0.247 8715	26436
2.0	0.766 5349	56262	0.577 4965	60514	0.250 5151	26248
2.5	0.760 9087	56839	0.583 5479	60076	0.253 1399	26059
3.0	0.755 2248	57414	0.589 5555	59632	0.255 7458	25866
3.5	0.749 4834	57985	0.595 5187	59183	0.258 3324	25672
4.0	0.743 6849	58551	0.601 4370	58730	0.260 8996	25475
4.5	0.737 8298	59114	0.607 3100	58272	0.263 4471	25276
5.0	0.731 9184	59674	0.613 1372	57808	0.265 9747	25075
5.5	0.725 9510	60229	0.618 9180	57339	0.268 4822	24872
6.0	0.719 9281	60779	0.624 6519	56866	0.270 9694	24668
6.5	0.713 8502	61326	0.630 3385	56387	0.273 4362	24461
7.0	0.707 7176	61868	0.635 9772	55904	0.275 8823	24252
7.5	0.701 5308	62406	0.641 5676	55417	0.278 3075	24041
8.0	0.695 2902	62940	0.647 1093	54924	0.280 7116	23827
8.5	0.688 9962	63468	0.652 6017	54427	0.283 0943	23612
9.0	0.682 6494	63992	0.658 0444	53925	0.285 4555	23394
9.5	0.676 2502	64510	0.663 4369	53419	0.287 7949	23175
10.0	0.669 7992	65024	0.668 7788	52907	0.290 1124	22953
10.5	0.663 2968	65533	0.674 0695	52391	0.292 4077	22730
11.0	0.656 7435	66038	0.679 3086	51871	0.294 6807	22505
11.5	0.650 1397	66537	0.684 4957	51347	0.296 9312	22277
12.0	0.643 4860	67031	0.689 6304	50818	0.299 1589	22047
12.5	0.636 7829	67520	0.694 7122	50285	0.301 3636	21817
13.0	0.630 0309	68003	0.699 7407	49747	0.303 5453	21584
13.5	0.623 2306	68482	0.704 7154	49206	0.305 7037	21349
14.0	0.616 3824	68955	0.709 6360	48660	0.307 8386	21112
14.5	0.609 4869	69422	0.714 5020	48109	0.309 9498	20874
15.0	0.602 5447	69883	0.719 3129	47556	0.312 0372	20633
15.5	0.595 5564	70340	0.724 0685	46998	0.314 1005	20391
16.0	0.588 5224	70791	0.728 7683	46437	0.316 1396	20147
16.5	0.581 4433	71235	0.733 4120	45871	0.318 1543	19901
17.0	0.574 3198	71674	0.737 9991	45303	0.320 1444	19655
17.5	0.567 1524	72107	0.742 5294	44730	0.322 1099	19407
18.0	0.559 9417	72534	0.747 0024	44154	0.324 0506	19156
18.5	0.552 6883	72955	0.751 4178	43576	0.325 9662	18905
19.0	0.545 3928		0.755 7754		0.327 8567	

Mittl. Äquator und Mittl. Äquinoktium 1909.o.

1909	X	Red. auf 1910.o	Y	Red. auf 1910.o	Z	Red. auf 1910.o
Nov. 19.0	0.545 3928	73371	0.755 7754	42993	0.327 8567	18652
19.5	0.538 0557	73781	0.760 0747	42407	0.329 7219	18397
20.0	0.530 6776	74185	0.764 3154	41818	0.331 5616	18141
20.5	0.523 2591	74582	0.768 4972	41227	0.333 3757	17884
21.0	0.515 8009	74975	0.772 6199	40632	0.335 1641	17626
21.5	0.508 3034	75361	0.776 6831	40034	0.336 9267	17366
22.0	0.500 7673	75741	0.780 6865	39434	0.338 6633	17105
22.5	0.493 1932	76116	0.784 6299	38831	0.340 3738	16843
23.0	0.485 5816	76485	0.788 5130	38225	0.342 0581	16579
23.5	0.477 9331	76849	0.792 3355	37616	0.343 7160	16315
24.0	0.470 2482	77206	0.796 0971	37006	0.345 3475	16050
24.5	0.462 5276	77558	0.799 7977	36393	0.346 9525	15784
25.0	0.454 7718	77905	0.803 4370	35776	0.348 5309	15517
25.5	0.446 9813	78245	0.807 0146	35158	0.350 0826	15248
26.0	0.439 1568	78581	0.810 5304	34537	0.351 6074	14979
26.5	0.431 2987	78910	0.813 9841	33914	0.353 1053	14708
27.0	0.423 4077	79235	0.817 3755	33288	0.354 5761	14436
27.5	0.415 4842	79553	0.820 7043	32659	0.356 0197	14164
28.0	0.407 5289	79867	0.823 9702	32027	0.357 4361	13890
28.5	0.399 5422	80174	0.827 1729	31393	0.358 8251	13615
29.0	0.391 5248	80477	0.830 3122	30757	0.360 1866	13339
29.5	0.383 4771	80773	0.833 3879	30118	0.361 5205	13061
30.0	0.375 3998	81065	0.836 3997	29476	0.362 8266	12783
30.5	0.367 2933	81350	0.839 3473	28831	0.364 1049	12504
Dez. 1.0	0.359 1583	81630	0.842 2304	28183	0.365 3553	12224
1.5	0.350 9953	81903	0.845 0487	27534	0.366 5777	11943
2.0	0.342 8050	82171	0.847 8021	26881	0.367 7720	11660
2.5	0.334 5879	82432	0.850 4902	26227	0.368 9380	11376
3.0	0.326 3447	82688	0.853 1129	25569	0.370 0756	11091
3.5	0.318 0759	82938	0.855 6698	24909	0.371 1847	10806
4.0	0.309 7821	83181	0.858 1607	24246	0.372 2653	10519
4.5	0.301 4640	83417	0.860 5853	23582	0.373 3172	10230
5.0	0.293 1223	83648	0.862 9435	22914	0.374 3402	9941
5.5	0.284 7575	83872	0.865 2349	22245	0.375 3343	9651
6.0	0.276 3703	84090	0.867 4594	21573	0.376 2994	9360
6.5	0.267 9613	84300	0.869 6167	20899	0.377 2354	9068
7.0	0.259 5313	84505	0.871 7066	20224	0.378 1422	8775
7.5	0.251 0808	84702	0.873 7290	19547	0.379 0197	8481
8.0	0.242 6106		0.875 6837		0.379 8678	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Dez. 8.0	0.242 6106 84893		0.875 6837 18867		0.379 8678 8187	
8.5	0.234 1213 85078	+ 2331	0.877 5704 18185	- 523	0.380 6865 7892	- 227
9.0	0.225 6135 85256		0.879 3889 17502		0.381 4757 7595	
9.5	0.217 0879 85427	2340	0.881 1391 16816	485	0.382 2352 7298	211
10.0	0.208 5452 85591		0.882 8207 16129		0.382 9650 7000	
10.5	0.199 9861 85748	2349	0.884 4336 15440	447	0.383 6650 6702	194
11.0	0.191 4113 85898		0.885 9776 14751		0.384 3352 6402	
11.5	0.182 8215 86041	2357	0.887 4527 14060	409	0.384 9754 6103	177
12.0	0.174 2174 86178		0.888 8587 13368		0.385 5857 5803	
12.5	0.165 5996 86306	2364	0.890 1955 12673	370	0.386 1660 5501	161
13.0	0.156 9690 86428		0.891 4628 11977		0.386 7161 5199	
13.5	0.148 3262 86543	+ 2371	0.892 6605 11281	- 332	0.387 2360 4896	- 144
14.0	0.139 6719 86651		0.893 7886 10584		0.387 7256 4594	
14.5	0.131 0068 86751	2377	0.894 8470 9886	293	0.388 1850 4291	127
15.0	0.122 3317 86845		0.895 8356 9188		0.388 6141 3988	
15.5	0.113 6472 86930	2382	0.896 7544 8488	254	0.389 0129 3684	110
16.0	0.104 9542 87009		0.897 6032 7788		0.389 3813 3380	
16.5	0.096 2533 87080	2387	0.898 3820 7088	215	0.389 7193 3076	93
17.0	0.087 5453 87145		0.899 0908 6388		0.390 0269 2772	
17.5	0.078 8308 87203	2390	0.899 7296 5688	176	0.390 3041 2467	77
18.0	0.070 1105 87253		0.900 2984 4987		0.390 5508 2163	
18.5	0.061 3852 87297	+ 2393	0.900 7971 4286	- 137	0.390 7671 1859	- 60
19.0	0.052 6555 87334		0.901 2257 3585		0.390 9530 1553	
19.5	0.043 9221 87364	2395	0.901 5842 2885	98	0.391 1083 1249	43
20.0	0.035 1857 87386		0.901 8727 2184		0.391 2332 945	
20.5	0.026 4471 87403	2396	0.902 0911 1483	59	0.391 3277 642	26
21.0	0.017 7068 87413		0.902 2394 784		0.391 3919 338	
21.5	0.008 9655 87415	2397	0.902 3178 84	- 20	0.391 4257 34	- 9
22.0	0.000 2240 87412		0.902 3262 615		0.391 4291 270	
22.5	0.008 5172 87401	2396	0.902 2647 1315	+ 19	0.391 4021 573	+ 8
23.0	0.017 2573 87385		0.902 1332 2013		0.391 3448 877	
23.5	0.025 9958 87362	+ 2395	0.901 9319 2712	+ 58	0.391 2571 1180	+ 25
24.0	0.034 7320 87332		0.901 6607 3410		0.391 1391 1483	
24.5	0.043 4652 87297	2393	0.901 3197 4107	97	0.390 9908 1786	42
25.0	0.052 1949 87255		0.900 9090 4804		0.390 8122 2087	
25.5	0.060 9204 87206	2391	0.900 4286 5500	136	0.390 6035 2389	59
26.0	0.069 6410 87153		0.899 8786 6196		0.390 3646 2691	
26.5	0.078 3563 87092	2388	0.899 2590 6892	175	0.390 0955 2993	76
27.0	0.087 0655		0.898 5698		0.389 7962	

Mittl. Äquator und Mittl. Äquinoktium 1909.0.

1909	X	Red. auf 1910.0	Y	Red. auf 1910.0	Z	Red. auf 1910.0
Dez. 27.0	0.087 0655	87025	0.898 5698	7587	0.389 7962	3294
27.5	0.095 7680	86952	0.897 8111	8282	0.389 4668	3595
28.0	0.104 4632	86873	0.896 9829	8977	0.389 1073	3896
28.5	0.113 1505	86788	0.896 0852	9670	0.388 7177	4197
29.0	0.121 8293	86695	0.895 1182	10364	0.388 2980	4498
29.5	0.130 4988	86596	0.894 0818	11058	0.387 8482	4798
30.0	0.139 1584	86490	0.892 9760	11751	0.387 3684	5098
30.5	0.147 8074	86379	0.891 8009	12443	0.386 8586	5398
31.0	0.156 4453	86261	0.890 5566	13135	0.386 3188	5698
31.5	0.165 0714	86136	0.889 2431	13826	0.385 7490	5997
32.0	0.173 6850	86005	0.887 8605	14516	0.385 1493	6297
32.5	0.182 2855	85867	0.886 4089	15205	0.384 5196	6595
33.0	0.190 8722	85722	0.884 8884	15894	0.383 8601	6894
33.5	0.199 4444	85571	0.883 2990	16582	0.383 1707	7192
34.0	0.208 0015	85413	0.881 6408	17269	0.382 4515	7489
34.5	0.216 5428	85247	0.879 9139	17954	0.381 7026	7786
35.0	0.225 0675	85075	0.878 1185	18640	0.380 9240	8083
35.5	0.233 5750	84896	0.876 2545	19323	0.380 1157	8379
36.0	0.242 0646	84711	0.874 3222	20006	0.379 2778	8676
36.5	0.250 5357		0.872 3216		0.378 4102	

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. II. Par.	Diff.	Halbm.
Jan. 1.0	2 ^h 31 ^m 9.10	25 44.36	+10° 49' 2.0	0 27 21.2	8.22673	-178	15 47.4
1.5	2 56 53.46	26 3.17	13 16 23.2	2 16 30.3	8.22495	180	15 43.6
2.0	3 22 56.63	26 24.69	15 32 53.5	2 3 54.9	8.22315	182	15 39.7
2.5	3 49 21.32	26 47.23	17 36 48.4	1 49 41.4	8.22133	184	15 35.7
3.0	4 16 8.55	27 8.85	19 26 29.8	1 33 58.7	8.21949	185	15 31.8
3.5	4 43 17.40	27 27.57	21 0 28.5	1 16 59.2	8.21764	185	15 27.8
4.0	5 10 44.97	27 41.47	22 17 27.7	0 58 58.6	8.21579	186	15 23.9
4.5	5 38 26.44	27 42.91	23 16 26.3	0 40 16.1	8.21393	186	15 19.9
5.0	6 6 15.35	27 48.68	23 56 42.4	0 21 13.2	8.21207	184	15 16.0
5.5	6 34 4.03	27 40.24	24 17 55.6	+0 2 12.5	8.21023	-180	15 12.1
6.0	7 1 44.27	27 23.66	+24 20 8.1	-0 16 23.2	8.20843	176	15 8.4
6.5	7 29 7.93	26 59.67	24 3 44.9	0 34 13.6	8.20667	169	15 4.7
7.0	7 56 7.60	26 29.62	23 29 31.3	0 51 1.3	8.20498	161	15 1.2
7.5	8 22 37.22	25 55.12	22 38 30.0	1 6 34.0	8.20337	148	14 57.9
8.0	8 48 32.34	25 18.00	21 31 56.0	1 20 42.6	8.20189	135	14 54.8
8.5	9 13 50.34	24 40.06	20 11 13.4	1 33 22.5	8.20054	118	14 52.0
9.0	9 38 30.40	24 2.96	18 37 50.9	1 44 33.6	8.19936	98	14 49.6
9.5	10 2 33.36	23 28.18	16 53 17.3	1 54 17.5	8.19838	75	14 47.6
10.0	10 26 1.54	22 56.87	14 58 59.8	2 2 38.0	8.19763	51	14 46.0
10.5	10 48 58.41	22 30.01	12 56 21.8	-2 9 40.0	8.19712	-23	14 45.0
11.0	11 11 28.42	22 8.36	+10 46 41.8	2 15 28.6	8.19689	+6	14 44.5
11.5	11 33 36.78	21 52.51	8 31 13.2	2 20 7.9	8.19695	38	14 44.7
12.0	11 55 29.29	21 42.88	6 11 5.3	2 23 42.0	8.19733	69	14 45.4
12.5	12 17 12.17	21 39.86	3 47 23.3	2 26 12.9	8.19802	103	14 46.8
13.0	12 38 52.03	21 43.74	+ 1 21 10.4	2 27 40.8	8.19905	137	14 48.9
13.5	13 0 35.77	21 54.77	- 1 6 30.4	2 28 4.6	8.20042	171	14 51.7
14.0	13 22 30.54	22 13.15	3 34 35.0	2 27 21.0	8.20213	204	14 55.3
14.5	13 44 43.69	22 38.99	6 1 56.0	2 25 23.9	8.20417	235	14 59.5
15.0	14 7 22.68	23 12.31	8 27 19.9	2 22 5.0	8.20652	264	15 4.4
15.5	14 30 34.99	23 52.97	10 49 24.9	-2 17 13.8	8.20916	+289	15 9.9
16.0	14 54 27.96	24 40.58	-13 6 38.7	2 10 38.6	8.21205	312	15 16.0
16.5	15 19 8.54	25 34.35	15 17 17.3	2 2 5.5	8.21517	330	15 22.6
17.0	15 44 42.89	26 33.03	17 19 22.8	1 51 21.0	8.21847	341	15 29.6
17.5	16 11 15.92	27 34.76	19 10 43.8	1 38 13.0	8.22188	346	15 36.9
18.0	16 38 50.68	28 36.95	20 48 56.8	1 22 33.7	8.22534	344	15 44.4
18.5	17 7 27.63	29 36.50	22 11 30.5	1 4 21.7	8.22878	336	15 51.9
19.0	17 37 4.13	30 29.73	23 15 52.2	0 43 44.7	8.23214	320	15 59.3
19.5	18 7 33.86	31 12.94	23 59 36.9	-0 21 2.9	8.23534	296	16 6.4
20.0	18 38 46.80	31 42.95	24 20 39.8	+0 3 12.2	8.23830	264	16 13.0
20.5	19 10 29.75		24 17 27.6		8.24094		16 19.0

Jan. 6 3^h 6.3 Vollmond.Jan. 14 7^h 4.9 Letztes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	Alt.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							Alt.	Dekl.	Gr.
Jan. 1	0 ^h 8 ^m 5.3	2 ^h 48 ^m 28 ^s	-67.02	133.32	+12° 29.5	+12.6	2 ^h 19.9	+10° 12'	5.5
	U 20 30.1	3 15 19	-67.46	135.12	+14 54.3	+11.6	2 24.7	+ 9 9	6.3
2	0 8 55.3	3 42 33	-67.94	137.15	+17 6.3	+10.4	3 1.4	+12 50	5.9
	U 21 20.9	4 10 12	-68.44	139.24	+19 3.6	+ 9.1	3 26.2	+17 38	6.5
3	0 9 46.9	4 38 15	-68.90	141.20	+20 44.4	+ 7.7	4 15.1	+18 32	5.9
	U 22 13.3	5 6 40	-69.28	142.83	+22 7.2	+ 6.1	4 19.6	+18 50	6.5
4	0 10 39.9	5 35 21	-69.53	143.94	+23 10.8	+ 4.5	5 13.8	+22 0	5.2
	U 23 6.7	6 4 12	-69.61	144.36	+23 54.4	+ 2.8	5 22.2	+21 52	4.8
5	0 11 33.5	6 33 3	-69.51	144.02	+24 17.5	+ 1.1	6 4.2	+23 8	6.5
	—	—	—	—	—	—	6 10.8	+24 0	6.5
6	U 0 0.2	7 1 45	-69.21	142.88	+24 20.1	- 0.6	6 56.9	+24 21	5.3
	0 12 26.5	7 30 8	+68.73	140.88	+24 2.8	- 2.3	7 6.9	+24 17	5.8
7	U 0 52.4	7 58 4	+68.09	138.30	+23 26.4	- 3.8	8 0.9	+22 54	6.2
	0 13 17.8	8 25 27	+67.32	135.23	+22 32.0	- 5.2	8 8.3	+23 25	6.5
8	U 1 42.5	8 52 11	+66.47	131.86	+21 21.3	- 6.5	8 38.0	+21 48	4.8
	0 14 6.5	9 18 13	+65.58	128.36	+19 55.7	- 7.7	9 8.4	+21 40	6.5
9	U 2 29.8	9 43 34	+64.70	124.91	+18 17.0	- 8.7	9 39.4	+19 17	6.5
	0 14 52.4	10 8 14	+63.86	121.65	+16 26.8	- 9.6	10 2.4	+17 12	3.6
10	U 3 14.4	10 32 16	+63.09	118.70	+14 26.7	-10.4	10 27.3	+14 36	5.7
	0 15 35.9	10 55 46	+62.42	116.17	+12 18.2	-11.0	10 41.6	+14 41	5.7
11	U 3 56.9	11 18 48	+61.88	114.12	+10 2.7	-11.5	11 19.2	+11 2	4.0
	0 16 17.5	11 41 28	+61.49	112.60	+ 7 41.6	-12.0	11 33.8	+ 8 38	5.5
12	U 4 37.9	12 3 53	+61.25	111.66	+ 5 16.0	-12.3	12 5.4	+ 6 19	5.7
	0 16 58.2	12 26 10	+61.18	111.34	+ 2 47.1	-12.5	12 15.7	+ 3 49	5.2
13	U 5 18.4	12 48 28	+61.28	111.66	+ 0 16.0	-12.6	12 33.7	+ 2 21	6.1
	0 17 38.8	13 10 53	+61.57	112.65	- 2 16.2	-12.7	12 55.9	- 2 53	6.1
14	U 5 59.5	13 33 33	+62.04	114.33	- 4 48.3	-12.6	13 30.8	- 4 56	5.8
	0 18 20.5	13 56 38	+62.70	116.71	- 7 19.1	-12.5	13 39.2	- 5 2	6.4
15	U 6 42.1	14 20 16	+63.53	119.80	- 9 47.2	-12.2	14 19.8	-11 15	6.5
	0 19 4.4	14 44 34	+64.54	123.59	-12 11.0	-11.8	14 32.1	-11 55	6.0
16	U 7 27.5	15 9 42	+65.71	128.05	-14 28.7	-11.2	15 6.7	-15 49	6.5
	0 19 51.5	15 35 47	+67.01	133.10	-16 38.3	-10.4	15 15.9	-15 13	6.0
17	U 8 16.6	16 2 55	+68.40	138.61	-18 37.5	- 9.4	16 4.6	-18 6	6.5
	0 20 42.9	16 31 11	+69.83	144.39	-20 23.5	- 8.2	16 9.4	-18 18	6.5
18	U 9 10.3	17 0 37	+71.24	150.18	-21 53.6	- 6.7			
	0 21 38.8	17 31 11	+72.53	155.64	-23 4.8	- 5.0			
19	U 10 8.3	18 2 47	+73.65	160.37	-23 54.3	- 3.1			
	0 22 38.7	18 35 14	+74.50	164.02	-24 19.5	- 1.0			
20	U 11 9.7	19 8 16	+75.02	166.25	-24 18.5	+ 1.2			
	0 23 41.0	19 41 37	+75.16	166.90	-23 50.2	+ 3.5			

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halb.
Jan. 20.0	18 ^h 38 ^m 46.80		-24 20 39.8		8.23830		16 13.0
20.5	19 10 29.75	31 42.95	24 17 27.6	+0 3 12.2	8.24094	+264	16 19.0
21.0	19 42 27.31	31 57.56	23 49 9.4	0 28 18.2	8.24321	227	16 24.1
21.5	20 14 23.37	31 56.06	22 55 44.3	0 53 25.1	8.24504	183	16 28.2
22.0	20 46 2.80	31 39.43	21 38 3.7	1 17 40.6	8.24640	136	16 31.3
22.5	21 17 12.88	31 10.08	19 57 47.3	1 40 16.4	8.24726	86	16 33.3
23.0	21 47 44.19	30 31.31	17 57 14.3	2 0 33.0	8.24760	+ 34	16 34.1
23.5	22 17 31.16	29 46.97	15 39 14.3	2 18 0.0	8.24743	- 17	16 33.7
24.0	22 46 31.81	29 0.65	13 6 53.9	2 32 20.4	8.24678	65	16 32.2
24.5	23 14 47.33	28 15.52	10 23 26.6	2 43 27.3	8.24569	109	16 29.7
		27 34.08		+2 51 22.7		-150	
25.0	23 42 21.41	26 58.08	- 7 32 3.9	2 56 14.1	8.24419	184	16 26.3
25.5	0 9 19.49	26 28.70	4 35 49.8	2 58 13.5	8.24235	213	16 22.1
26.0	0 35 48.19	26 6.53	- 1 37 36.3	2 57 34.0	8.24022	234	16 17.3
26.5	1 1 54.72	25 51.73	+ 1 19 57.7	2 54 28.9	8.23788	251	16 12.1
27.0	1 27 46.45	25 44.14	4 14 26.6	2 49 11.0	8.23537	261	16 6.5
27.5	1 53 30.59	25 43.30	7 3 37.6	2 41 51.6	8.23276	266	16 0.7
28.0	2 19 13.89	25 48.46	9 45 29.2	2 32 40.5	8.23010	267	15 54.8
28.5	2 45 2.35	25 58.61	12 18 9.7	2 21 46.3	8.22743	264	15 49.0
29.0	3 11 0.96	26 12.55	14 39 56.0	2 9 16.7	8.22479	258	15 43.2
29.5	3 37 13.51	26 28.86	16 49 12.7	+1 55 19.7	8.22221	-250	15 37.6
30.0	4 3 42.37	26 45.89	+18 44 32.4	1 40 4.1	8.21971	240	15 32.2
30.5	4 30 28.26	27 1.87	20 24 36.5	1 23 39.9	8.21731	228	15 27.1
31.0	4 57 30.13	27 15.12	21 48 16.4	1 6 19.0	8.21503	217	15 22.3
31.5	5 24 45.25	27 23.94	22 54 35.4	0 48 16.0	8.21286	205	15 17.7
Febr. 1.0	5 52 9.19	27 27.00	23 42 51.4	0 29 47.3	8.21081	192	15 13.3
1.5	6 19 36.19	27 23.39	24 12 38.7	+0 11 11.4	8.20889	179	15 9.3
2.0	6 46 59.58	27 12.67	24 23 50.1	-0 7 13.1	8.20710	168	15 5.6
2.5	7 14 12.25	26 55.07	24 16 37.0	0 25 7.6	8.20542	156	15 2.1
3.0	7 41 7.32	26 31.26	23 51 29.4	0 42 15.2	8.20386	143	14 58.8
3.5	8 7 38.58	26 2.43	23 9 14.2	-0 58 21.4	8.20243	-131	14 55.9
4.0	8 33 41.01	25 29.95	+22 10 52.8	1 13 14.7	8.20112	119	14 53.2
4.5	8 59 10.96	24 55.40	20 57 38.1	1 26 47.5	8.19993	105	14 50.7
5.0	9 24 6.36	24 20.34	19 30 50.6	1 38 55.2	8.19888	91	14 48.6
5.5	9 48 26.70	23 46.19	17 51 55.4	1 49 35.7	8.19797	75	14 46.7
6.0	10 12 12.89	23 14.20	16 2 19.7	1 58 50.6	8.19722	59	14 45.2
6.5	10 35 27.09	22 45.41	14 3 29.1	2 6 40.7	8.19663	41	14 44.0
7.0	10 58 12.50	22 20.70	11 56 48.4	2 13 10.5	8.19622	- 21	14 43.2
7.5	11 20 33.20	22 0.73	9 43 37.9	2 18 23.1	8.19601	0	14 42.7
8.0	11 42 33.93	21 46.05	7 25 14.8	2 22 22.7	8.19601	+ 24	14 42.7
8.5	12 4 19.98		5 2 52.1		8.19625		14 43.2

Jan. 21 13^h 5.4^m Neumond.

Jan. 28 4^h 1.0^m Erst. Viert.

Febr. 4 21^h 18.5^m Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Jan. 20	U 11 ^h 9 ^m 7 ^s	19 ^h 8 ^m 16 ^s	+75.02	166.25	-24° 18.5'	+ 1.2			
	O 23 41.0	19 41 37	+75.16	166.90	-23 50.2	+ 3.5			
21	U 12 12.2	20 14 56	+74.95	166.10	-22 54.6	+ 5.8			
22	O 0 43.2	20 47 56	-74.42	163.81	-21 32.7	+ 7.9			
	U 13 13.6	21 20 22	-73.63	160.48	-19 46.4	+ 9.8			
23	O 1 43.2	21 52 3	-72.68	156.45	-17 38.5	+11.5			
	U 14 12.0	22 22 54	-71.65	152.11	-15 12.3	+12.8			
24	O 2 39.9	22 52 52	-70.62	147.82	-12 31.4	+13.9			
	U 15 7.0	23 22 0	-69.65	143.83	- 9 39.6	+14.7			
25	O 3 33.4	23 50 24	-68.80	140.34	- 6 40.2	+15.2			
	U 15 59.1	0 18 10	-68.11	137.47	- 3 36.7	+15.4			
26	O 4 24.3	0 45 25	-67.59	135.31	- 0 32.2	+15.3	^h 5.6	- 5 45	5.9
	U 16 49.2	1 12 19	-67.24	133.85	+ 2 30.5	+15.1	0 19.8	- 2 43	6.0
27	O 5 13.8	1 39 0	-67.06	133.08	+ 5 28.9	+14.6	1 5.9	+ 1 58	6.3
	U 17 38.3	2 5 35	-67.05	132.96	+ 8 20.7	+14.0	1 13.1	+ 3 8	5.3
28	O 6 2.9	2 32 13	-67.17	133.43	+11 3.7	+13.2	2 8.2	+ 8 25	4.5
	U 18 27.6	2 59 0	-67.41	134.37	+13 36.0	+12.2	2 19.9	+10 12	5.5
29	O 6 52.6	3 26 0	-67.73	135.68	+15 55.7	+11.1	2 46.5	+14 42	5.5
	U 19 17.9	3 53 18	-68.11	137.21	+18 1.1	+ 9.8	2 59.6	+15 30	6.5
30	O 7 43.5	4 20 54	-68.49	138.79	+19 50.8	+ 8.4	3 48.0	+17 3	6.0
	U 20 9.4	4 48 49	-68.83	140.26	+21 23.3	+ 7.0	3 55.6	+17 56	5.7
31	O 8 35.5	5 17 0	-69.10	141.43	+22 37.6	+ 5.4	4 36.8	+22 47	4.3
	U 21 1.8	5 45 22	-69.24	142.15	+23 32.6	+ 3.8	4 57.7	+21 28	4.7
Febr. 1	O 9 28.2	6 13 49	-69.23	142.29	+24 7.9	+ 2.1	5 43.4	+24 32	5.1
	U 21 54.6	6 42 14	-69.06	141.77	+24 23.2	+ 0.4	5 51.4	+24 14	6.0
2	O 10 20.8	7 10 28	-68.71	140.55	+24 18.7	- 1.2	6 38.3	+25 13	3.2
	U 22 46.7	7 38 24	-68.21	138.69	+23 54.8	- 2.8	6 46.5	+23 43	6.5
3	O 11 12.1	8 5 54	-67.57	136.28	+23 12.6	- 4.3	7 39.0	+24 37	3.7
	U 23 37.0	8 32 52	-66.82	133.45	+22 13.0	- 5.7	7 43.1	+23 22	6.5
4	O 12 1.4	8 59 14	-66.00	130.34	+20 57.5	- 6.9	8 33.4	+24 1	6.5
	U						8 38.0	+21 48	4.8
5	U 0 25.1	9 24 58	+65.15	126.98	+19 27.6	- 8.0	9 33.8	+20 42	6.5
	O 12 48.1	9 50 3	+64.30	123.77	+17 44.9	- 9.0	9 39.5	+19 17	6.5
6	U 1 10.6	10 14 31	+63.49	120.75	+15 51.1	- 9.9	10 17.0	+15 26	6.2
	O 13 32.4	10 38 24	+62.76	118.00	+13 47.7	-10.6	10 27.4	+14 36	5.7
7	U 1 53.7	11 1 46	+62.13	115.61	+11 36.2	-11.2	10 59.8	+13 9	6.5
	O 14 14.6	11 24 42	+61.61	113.65	+ 9 18.1	-11.7	11 19.2	+11 2	4.0
8	U 2 35.2	11 47 17	+61.23	112.18	+ 6 54.8	-12.1	11 43.2	+ 8 45	5.2
	O 14 55.5	12 9 37	+61.00	111.23	+ 4 27.7	-12.4	11 56.2	+ 7 7	4.6

Jan. 23 ^h 2 Perigäum.

Febr. 7 ^h 18 Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Dif.	Wahre Dekl.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.
Febr. 8.0	11 ^h 42 ^m 33.93	21 ^m 46.05	+ 7° 25' 14.8	2° 22' 22.7	8.19601	+ 24	14 42.7
8.5	12 4 19.98	21 37.12	5 2 52.1	2 25 11.9	8.19625	4 ^h	14 43.2
9.0	12 25 57.10	21 34.24	2 37 40.2	2 26 53.0	8.19673	75	14 44.2
9.5	12 47 31.34	21 37.70	+ 0 10 47.2	2 27 26.9	8.19748	103	14 45.7
10.0	13 9 9.04	21 47.78	- 2 16 39.7	2 26 53.7	8.19851	131	14 47.8
10.5	13 30 56.82	22 4.63	4 43 33.4	2 25 11.2	8.19982	161	14 50.5
11.0	13 53 1.45	22 28.39	7 8 44.6	2 22 15.2	8.20143	192	14 53.8
11.5	14 15 29.84	22 59.12	9 30 59.8	2 18 0.1	8.20335	222	14 57.8
12.0	14 38 28.96	23 36.63	11 48 59.9	2 12 18.3	8.20557	249	15 2.4
12.5	15 2 5.59	24 20.66	14 1 18.2	- 2 4 59.9	8.20806	+278	15 7.6
13.0	15 26 26.25	25 10.53	-16 6 18.1	1 55 55.4	8.21084	304	15 13.4
13.5	15 51 36.78	26 5.24	18 2 13.5	1 44 52.5	8.21388	325	15 19.8
14.0	16 17 42.02	27 3.14	19 47 6.0	1 31 42.3	8.21713	344	15 26.7
14.5	16 44 45.16	28 2.23	21 18 48.3	1 16 16.8	8.22057	356	15 34.1
15.0	17 12 47.39	28 59.75	22 35 5.1	0 58 33.1	8.22413	364	15 41.8
15.5	17 41 47.14	29 52.63	23 33 38.2	0 38 36.1	8.22777	365	15 49.7
16.0	18 11 39.77	30 37.63	24 12 14.3	-0 16 39.2	8.23142	357	15 57.7
16.5	18 42 17.40	31 11.72	24 28 53.5	+0 6 53.5	8.23499	343	16 5.6
17.0	19 13 29.12	31 32.72	24 22 0.0	0 31 27.2	8.23842	319	16 13.3
17.5	19 45 1.84	31 39.55	23 50 32.8	+0 56 19.1	8.24161	+288	16 20.5
18.0	20 16 41.39	31 32.52	-22 54 13.7	1 20 41.5	8.24449	248	16 27.0
18.5	20 48 13.91	31 13.29	21 33 32.2	1 43 46.3	8.24697	201	16 32.6
19.0	21 19 27.20	30 44.51	19 49 45.9	2 4 49.7	8.24898	148	16 37.2
19.5	21 50 11.71	30 9.38	17 44 56.2	2 23 15.4	8.25046	91	16 40.6
20.0	22 20 21.09	29 31.25	15 21 40.8	2 38 36.6	8.25137	+ 31	16 42.8
20.5	22 49 52.34	28 53.07	12 43 4.2	2 50 36.9	8.25168	- 29	16 43.5
21.0	23 18 45.41	28 17.34	9 52 27.3	2 59 9.6	8.25139	87	16 42.8
21.5	23 47 2.75	27 45.91	6 53 17.7	3 4 16.1	8.25052	142	16 40.8
22.0	0 14 48.66	27 19.97	3 49 1.6	3 6 3.7	8.24910	191	16 37.5
22.5	0 42 8.63	27 0.29	- 0 42 57.9	+3 4 44.7	8.24719	-235	16 33.1
23.0	1 9 8.92	26 47.02	+ 2 21 46.8	3 0 33.5	8.24484	270	16 27.8
23.5	1 35 55.94	26 39.94	5 22 20.3	2 53 46.5	8.24214	299	16 21.7
24.0	2 2 35.88	26 38.59	8 16 6.8	2 44 39.5	8.23915	318	16 14.9
24.5	2 29 14.47	26 42.11	11 0 46.3	2 33 28.3	8.23597	331	16 7.8
25.0	2 55 56.58	26 49.43	13 34 14.6	2 20 27.9	8.23266	337	16 0.5
25.5	3 22 46.01	26 59.24	15 54 42.5	2 5 53.0	8.22929	335	15 53.0
26.0	3 49 45.25	27 10.06	18 0 35.5	1 49 57.7	8.22594	329	15 45.7
26.5	4 16 55.31	27 20.32	19 50 33.2	1 32 56.3	8.22265	318	15 38.6
27.0	4 44 15.63	27 28.44	21 23 29.5	1 15 3.4	8.21947	302	15 31.7
27.5	5 11 44.07		22 38 32.9		8.21645		15 25.2

Febr. 13 ^h 40.5 Letzt. Viert. Febr. 19 ^h 23 45.7 Neumond. Febr. 26 ^h 15 42.7 Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Dekl.	Gr.
Febr. 8	U 2 ^h 35.2	11 ^h 47 ^m 17	+61.23	112.18	+ 6° 54.8	-12.1	11 ^h 43.2	+ 8° 45'	5.2
	O 14 55.5	12 9 37	+61.00	111.23	+ 4 27.7	-12.4	11 56.2	+ 7 7	4.6
9	U 3 15.7	12 31 49	+60.92	110.85	+ 1 57.9	-12.6	12 33.7	+ 2 21	6.1
	O 15 35.8	12 54 0	+61.01	111.06	- 0 33.4	-12.6	12 48.5	- 3 4	6.1
10	U 3 56.1	13 16 17	+61.27	111.88	- 3 4.9	-12.6	13 18.6	- 4 27	6.1
	O 16 16.6	13 38 47	+61.71	113.33	- 5 35.5	-12.5	13 27.2	- 5 47	4.9
11	U 4 37.4	14 1 38	+62.32	115.43	- 8 4.0	-12.2	14 1.9	- 8 53	5.7
	O 16 58.7	14 24 58	+63.10	118.18	-10 28.9	-11.9	14 12.0	- 8 28	6.0
12	U 5 20.6	14 48 55	+64.05	121.58	-12 48.7	-11.4	14 49.4	-11 32	5.9
	O 17 43.3	15 13 36	+65.15	125.62	-15 1.9	-10.8	15 1.5	-15 54	5.4
13	U 6 6.8	15 39 9	+66.37	130.22	-17 6.6	-10.0	15 36.7	-19 23	5.0
	O 18 31.3	16 5 40	+67.68	135.29	-19 0.7	- 9.0	15 44.7	-17 37	6.5
14	U 6 56.8	16 33 14	+69.05	140.69	-20 41.9	- 7.8	16 26.7	-21 16	4.7
	O 19 23.4	17 1 54	+70.42	146.20	-22 7.7	- 6.4	16 36.5	-19 45	5.7
15	U 7 51.1	17 31 39	+71.72	151.55	-23 15.5	- 4.8	17 29.8	-21 59	6.5
	O 20 19.8	18 2 26	+72.88	156.40	-24 2.7	- 3.0	17 54.2	-23 49	4.6
16	U 8 49.5	18 34 7	+73.83	160.43	-24 26.7	- 1.0			
	O 21 19.8	19 6 30	+74.50	163.33	-24 25.6	+ 1.2			
17	U 9 50.6	19 39 21	+74.84	164.89	-23 58.0	+ 3.4			
	O 22 21.6	20 12 22	+74.85	165.05	-23 3.4	+ 5.6			
18	U 10 52.4	20 45 17	+74.55	163.88	-21 42.1	+ 7.8			
	O 23 22.9	21 17 51	+74.00	161.61	-19 55.7	+ 9.9			
19	U 11 52.9	21 49 53	+73.26	158.53	-17 46.3	+11.7			
20	O 0 22.2	22 21 16	-72.41	155.17	-15 17.0	+13.2			
	U 12 50.8	22 51 56	-71.53	151.55	-12 31.4	+14.4			
21	O 1 18.7	23 21 53	-70.69	148.08	- 9 33.2	+15.3			
	U 13 46.0	23 51 10	-69.93	144.96	- 6 26.4	+15.8			
22	O 2 12.7	0 19 53	-69.30	142.35	- 3 14.8	+16.1			
	U 14 38.9	0 48 8	-68.83	140.33	- 0 2.0	+16.0			
23	O 3 4.7	1 16 2	-68.51	138.93	+ 3 8.6	+15.7			
	U 15 30.3	1 43 44	-68.34	138.13	+ 6 13.9	+15.1			
24	O 3 55.9	2 11 20	-68.32	137.91	+ 9 11.2	+14.4	1 36.7	+ 5 2	4.7
	U 16 21.5	2 38 56	-68.41	138.17	+11 57.9	+13.4	2 6.5	+ 8 9	5.7
25	O 4 47.2	3 6 38	-68.60	138.81	+14 31.9	+12.2	2 40.0	+12 4	5.2
	U 17 13.0	3 34 29	-68.85	139.71	+16 51.3	+10.9	2 46.4	+14 42	5.5
26	O 5 39.0	4 2 31	-69.11	140.72	+18 54.4	+ 9.5	3 34.3	+16 14	6.4
	U 18 5.2	4 30 46	-69.36	141.69	+20 39.9	+ 8.0	3 47.9	+17 3	6.0
27	O 6 31.5	4 59 11	-69.55	142.45	+22 6.6	+ 6.4	4 32.9	+20 30	5.8
	U 18 58.0	5 27 43	-69.64	142.86	+23 13.7	+ 4.8	4 36.8	+22 47	4.3

Febr. 20. 12^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Febr. 27.0	4 ^h 44 ^m 15.63	27 28.44	+21° 23' 29.5	1 15 3.4	8.21947	-302	15 31.7
27.5	5 11 44.07	27 32.97	22 38 32.9	0 56 34.8	8.21645	285	15 25.2
28.0	5 39 17.04	27 32.68	23 35 7.7	0 37 47.1	8.21360	265	15 19.2
28.5	6 6 49.72	27 26.71	24 12 54.8	0 18 56.4	8.21095	244	15 13.6
März 1.0	6 34 16.43	27 14.71	24 31 51.2	+0 0 19.5	8.20851	221	15 8.5
1.5	7 1 31.14	26 56.73	24 32 10.7	-0 17 47.2	8.20630	200	15 3.9
2.0	7 28 27.87	26 33.34	24 14 23.5	0 35 9.7	8.20430	177	14 59.8
2.5	7 55 1.21	26 5.49	23 39 13.8	0 51 35.2	8.20253	155	14 56.1
3.0	8 21 6.70	25 34.34	22 47 38.6	1 6 53.9	8.20098	134	14 52.9
3.5	8 46 41.04	25 1.23	21 40 44.7	-1 20 58.9	8.19964	-114	14 50.1
4.0	9 11 42.27	24 27.52	+20 19 45.8	1 33 45.0	8.19850	94	14 47.8
4.5	9 36 9.79	23 54.45	18 46 0.8	1 45 9.3	8.19756	75	14 45.9
5.0	10 0 4.24	23 23.18	17 0 51.5	1 55 11.0	8.19681	57	14 44.4
5.5	10 23 27.42	22 54.63	15 5 40.5	2 3 50.9	8.19624	39	14 43.2
6.0	10 46 22.05	22 29.63	13 1 49.6	2 11 10.5	8.19585	21	14 42.4
6.5	11 8 51.68	22 8.80	10 50 39.1	2 17 11.1	8.19564	-4	14 42.0
7.0	11 31 0.48	21 52.65	8 33 28.0	2 21 54.9	8.19560	+12	14 41.9
7.5	11 52 53.13	21 41.58	6 11 33.1	2 25 24.2	8.19572	31	14 42.1
8.0	12 14 34.71	21 35.91	3 46 8.9	2 27 40.0	8.19603	49	14 42.8
8.5	12 36 10.62	21 35.86	+1 18 28.9	-2 28 42.8	8.19652	+68	14 43.8
9.0	12 57 46.48	21 41.62	-1 10 13.9	2 28 33.2	8.19720	88	14 45.2
9.5	13 19 28.10	21 53.38	3 38 47.1	2 27 9.6	8.19808	108	14 47.0
10.0	13 41 21.48	22 11.15	6 5 56.7	2 24 30.2	8.19916	130	14 49.2
10.5	14 3 32.63	22 35.05	8 30 26.9	2 20 31.8	8.20046	153	14 51.8
11.0	14 26 7.68	23 4.92	10 50 58.7	2 15 9.6	8.20199	176	14 55.0
11.5	14 49 12.60	23 40.54	13 6 8.3	2 8 18.3	8.20375	199	14 58.6
12.0	15 12 53.14	24 21.44	15 14 26.6	1 59 51.4	8.20574	222	15 2.7
12.5	15 37 14.58	25 6.94	17 14 18.0	1 49 41.8	8.20796	246	15 7.4
13.0	16 2 21.52	25 55.92	19 3 59.8	1 37 43.5	8.21042	268	15 12.5
13.5	16 28 17.44	26 46.95	20 41 43.3	-1 23 49.7	8.21310	+288	15 18.2
14.0	16 55 4.39	27 38.13	-22 5 33.0	1 7 58.8	8.21598	307	15 24.3
14.5	17 22 42.52	28 27.22	23 13 31.8	0 50 11.0	8.21905	324	15 30.8
15.0	17 51 9.74	29 11.78	24 3 42.8	0 30 32.9	8.22229	334	15 37.7
15.5	18 20 21.52	29 49.32	24 34 15.7	-0 9 18.3	8.22563	342	15 45.0
16.0	18 50 10.84	30 17.75	24 43 34.0	+0 13 13.0	8.22905	343	15 52.5
16.5	19 20 28.59	30 35.58	24 30 21.0	0 36 32.6	8.23248	336	16 0.0
17.0	19 51 4.17	30 42.25	23 53 48.4	1 0 7.1	8.23584	325	16 7.5
17.5	20 21 46.42	30 38.18	22 53 41.3	1 23 18.5	8.23909	305	16 14.8
18.0	20 52 24.60	30 24.74	21 30 22.8	1 45 29.2	8.24214	275	16 21.7
18.5	21 22 49.34		19 44 53.6		8.24489		16 27.9

März 6 15^h 49.4 Vollmond.

März 14 16^h 35.3 Letztes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Dekl.	Gr.
Febr. 27	O 6 ^h 31.5 ^m	4 ^h 59 ^m 11 ^s	-69.55	142.45	+22° 6' 6"	+ 6.4	4 32.9	+20 30	5.8
	U 18 58.0	5 27 43	-69.64	142.86	+23 13.7	+ 4.8	4 36.8	+22 47	4.3
28	O 7 24.5	5 56 18	-69.60	142.79	+24 0.7	+ 3.1	5 22.2	+21 52	4.8
	U 19 51.0	6 24 48	-69.41	142.17	+24 27.4	+ 1.4	5 29.9	+23 59	5.4
März 1	O 8 17.3	6 53 7	-69.07	140.97	+24 34.0	- 0.3	6 19.1	+25 6	6.5
	U 20 43.3	7 21 8	-68.58	139.20	+24 21.0	- 1.9	6 38.3	+25 13	3.2
2	O 9 8.9	7 48 45	-67.96	136.92	+23 49.1	- 3.4	7 18.0	+23 7	6.1
	U 21 33.9	8 15 51	-67.23	134.24	+22 59.4	- 4.9	7 27.4	+23 5	6.0
3	O 9 58.4	8 42 24	-66.42	131.30	+21 53.1	- 6.2	8 0.9	+22 54	6.2
	U 22 22.3	9 8 21	-65.58	128.21	+20 31.5	- 7.4	8 8.3	+23 25	6.5
4	O 10 45.6	9 33 40	-64.73	125.12	+18 56.2	- 8.5	9 4.1	+22 25	5.2
	U 23 8.3	9 58 22	-63.90	122.13	+17 8.8	- 9.4	9 8.4	+21 40	6.5
5	O 11 30.4	10 22 30	-63.13	119.36	+15 10.6	-10.3	10 2.4	+17 12	3.6
	U 23 52.0	10 46 7	-62.45	116.90	+13 3.3	-11.0	10 17.0	+15 26	6.2
6	O 12 13.1	11 9 16	-61.87	114.71	+10 48.2	-11.5	10 41.6	+14 41	5.7
	U — —	— —	— —	— —	— —	— —	10 59.8	+13 9	6.5
7	U 0 33.9	11 32 3	+61.41	113.03	+ 8 26.9	-12.0	11 33.8	+ 8 38	5.5
	O 12 54.4	11 54 32	+61.08	111.84	+ 6 0.7	-12.4	11 40.6	+ 8 46	4.9
8	U 1 14.6	12 16 49	+60.89	111.13	+ 3 30.9	-12.6	12 15.7	+ 3 49	5.2
	O 13 34.7	12 39 1	+60.85	110.94	+ 0 58.9	-12.7	12 33.7	+ 2 21	6.1
9	U 1 54.9	13 1 14	+60.97	111.29	- 1 34.0	-12.7	12 55.9	- 2 53	6.1
	O 14 15.2	13 23 34	+61.26	112.19	- 4 6.6	-12.7	13 18.6	- 4 27	6.1
10	U 2 35.8	13 46 8	+61.70	113.66	- 6 37.5	-12.5	13 43.5	- 6 23	6.5
	O 14 56.7	14 9 3	+62.30	115.70	- 9 5.3	-12.2	13 50.2	- 7 37	6.4
11	U 3 18.0	14 32 25	+63.05	118.31	-11 28.7	-11.7	14 32.2	-11 55	6.0
	O 15 39.9	14 56 22	+63.95	121.47	-13 46.1	-11.1	14 43.0	-12 27	6.0
12	U 4 2.5	15 21 1	+64.98	125.16	-15 55.8	-10.4	15 18.0	-14 49	6.8
	O 16 25.9	15 46 26	+66.11	129.30	-17 56.1	- 9.6	15 23.1	-16 24	6.0
13	U 4 50.1	16 12 42	+67.31	133.80	-19 44.9	- 8.5	16 13.8	-20 0	6.0
	O 17 15.3	16 39 54	+68.55	138.53	-21 20.3	- 7.3	16 18.8	-19 49	4.6
14	U 5 41.4	17 8 4	+69.78	143.30	-22 39.9	- 5.9	17 0.8	-21 26	6.6
	O 18 8.5	17 37 10	+70.94	147.88	-23 41.6	- 4.3	17 12.5	-24 11	6.0
15	O 6 36.4	18 7 9	+71.96	152.03	-24 23.1	- 2.5	18 6.2	-23 43	5.3
	U 19 5.1	18 37 54	+72.81	155.49	-24 42.4	- 0.6	18 22.3	-25 28	2.9
16	U 7 34.4	19 9 15	+73.42	158.04	-24 37.9	+ 1.4	19 10.0	-24 20	6.4
	O 20 4.1	19 41 1	+73.76	159.54	-24 8.4	+ 3.5	19 19.7	-24 41	5.1
17	U 8 34.0	20 12 59	+73.83	159.93	-23 13.3	+ 5.7			
	O 21 3.9	20 44 56	+73.64	159.30	-21 52.9	+ 7.8			
18	U 9 33.6	21 16 40	+73.25	157.80	-20 8.1	+ 9.7			
	O 22 2.9	21 48 2	+72.70	155.67	-18 0.7	+11.5			

März 6 21 Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
März 18.0	20 ^h 52 ^m 24.60	30 ^m 24.74	—21° 30' 22.8	+1° 45' 29.2	8.24214	+275	16' 21.7
18.5	21 22 49.34	30 4.10	19 44 53.6	2 6 1.6	8.24489	240	16 27.9
19.0	21 52 53.44	29 38.75	17 38 52.0	2 24 22.7	8.24729	195	16 33.3
19.5	22 22 32.19	29 11.27	15 14 29.3	2 40 5.0	8.24924	145	16 37.8
20.0	22 51 43.46	28 44.10	12 34 24.3	2 52 46.8	8.25069	90	16 41.2
20.5	23 20 27.56	28 19.30	9 41 37.5	3 2 13.7	8.25159	+32	16 43.3
21.0	23 48 46.86	27 58.32	6 39 23.8	3 8 17.2	8.25191	—29	16 44.0
21.5	0 16 45.18	27 42.26	3 31 6.6	3 10 55.7	8.25162	89	16 43.3
22.0	0 44 27.44	27 31.65	— 0 20 10.9	3 10 12.3	8.25073	146	16 41.2
22.5	1 11 59.09	27 26.60	+ 2 50 1.4	+3 6 15.0	8.24927	—199	16 37.9
23.0	1 39 25.69	27 26.74	+ 5 56 16.4	2 59 15.6	8.24728	246	16 33.4
23.5	2 6 52.43	27 31.43	8 55 32.0	2 49 29.4	8.24482	285	16 27.8
24.0	2 34 23.86	27 39.59	11 45 1.4	2 37 13.0	8.24197	317	16 21.3
24.5	3 2 3.45	27 49.91	14 22 14.4	2 22 45.5	8.23880	340	16 14.1
25.0	3 29 53.36	28 0.87	16 44 59.9	2 6 27.5	8.23540	355	16 6.5
25.5	3 57 54.23	28 10.76	18 51 27.4	1 48 39.6	8.23185	362	15 58.7
26.0	4 26 4.99	28 17.93	20 40 7.0	1 29 44.0	8.22823	362	15 50.7
26.5	4 54 22.92	28 20.83	22 9 51.0	1 10 3.2	8.22461	355	15 42.8
27.0	5 22 43.75	28 18.20	23 19 54.2	0 49 59.0	8.22106	343	15 35.1
27.5	5 51 1.95	28 9.23	24 9 53.2	+0 29 53.4	8.21763	—324	15 27.8
28.0	6 19 11.18	27 53.67	+24 39 46.6	+0 10 6.7	8.21439	303	15 20.9
28.5	6 47 4.85	27 31.76	24 49 53.3	—0 9 3.3	8.21136	280	15 14.5
29.0	7 14 36.61	27 4.23	24 40 50.0	0 27 21.4	8.20856	253	15 8.6
29.5	7 41 40.84	26 32.22	24 13 28.6	0 44 35.3	8.20603	224	15 3.3
30.0	8 8 13.06	25 57.11	23 28 53.3	1 0 36.8	8.20379	196	14 58.7
30.5	8 34 10.17	25 20.36	22 28 16.5	1 15 19.7	8.20183	167	14 54.6
31.0	8 59 30.53	24 43.41	21 12 56.8	1 28 41.3	8.20016	138	14 51.2
31.5	9 24 13.94	24 7.53	19 44 15.5	1 40 41.2	8.19878	110	14 48.4
April 1.0	9 48 21.47	23 33.88	18 3 34.3	1 51 19.7	8.19768	83	14 46.1
1.5	10 11 55.35	23 3.39	16 12 14.6	—2 0 38.9	8.19685	—58	14 44.4
2.0	10 34 58.74	22 36.71	+14 11 35.7	2 8 39.7	8.19627	34	14 43.3
2.5	10 57 35.45	22 14.51	12 2 56.0	2 15 25.3	8.19593	—11	14 42.6
3.0	11 19 49.96	21 57.15	9 47 30.7	2 20 56.2	8.19582	+11	14 42.4
3.5	11 41 47.11	21 44.97	7 26 34.5	2 25 14.2	8.19593	30	14 42.6
4.0	12 3 32.08	21 38.21	5 1 20.3	2 28 19.1	8.19623	48	14 43.2
4.5	12 25 10.29	21 36.98	2 33 1.2	2 30 10.7	8.19671	66	14 44.2
5.0	12 46 47.27	21 41.45	+ 0 2 50.5	2 30 47.6	8.19737	82	14 45.5
5.5	13 8 28.72	21 51.64	— 2 27 57.1	2 30 7.8	8.19819	98	14 47.2
6.0	13 30 20.36	22 7.57	4 58 4.9	2 28 8.5	8.19917	113	14 49.2
6.5	13 52 27.93		7 26 13.4		8.20030		14 51.5

März 21 9^h 4^m Neumond.März 28 5^h 42^m Erst. Viert.April 5 9^h 22^m Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
März 18 U	9 ^h 33.6 ^m	21 ^h 16 ^m 40 ^s	+73.25	157.80	-20° 8.1'	+ 9.7			
O	22 2.9	21 48 2	+72.70	155.67	-18 0.7	+11.5			
19 U	10 31.8	22 18 56	+72.07	153.16	-15 33.1	+13.1			
O	23 0.1	22 49 19	+71.41	150.57	-12 48.2	+14.4			
20 U	11 27.9	23 19 11	+70.78	148.11	- 9 49.5	+15.4			
O	23 55.3	23 48 36	+70.23	145.94	- 6 40.6	+16.1			
21 U	12 22.3	0 17 37	-69.80	144.28	- 3 25.2	+16.5			
—	—	—	—	—	—	—			
22 O	0 49.0	0 46 20	-69.51	143.05	- 0 7.2	+16.5			
U	13 15.5	1 14 52	-69.35	142.36	+ 3 9.8	+16.3			
23 O	1 41.9	1 43 18	-69.33	142.19	+ 6 22.1	+15.7			
U	14 8.3	2 11 46	-69.44	142.48	+ 9 26.5	+14.9			
24 O	2 34.8	2 40 20	-69.64	143.15	+12 19.9	+13.9			
U	15 1.5	3 9 4	-69.91	144.08	+14 59.7	+12.7			
25 O	3 28.3	3 37 59	-70.20	145.11	+17 23.3	+11.3			
U	15 55.4	4 7 6	-70.47	146.07	+19 29.0	+ 9.7			
26 O	4 22.7	4 36 24	-70.68	146.80	+21 15.1	+ 8.0	^h 4 5.4	^m +18° 11'	6.5
U	16 50.0	5 5 48	-70.79	147.14	+22 40.5	+ 6.2	4 11.9	+20 21	4.6
27 O	5 17.4	5 35 13	-70.76	146.95	+23 44.4	+ 4.4	5 2.5	+24 9	5.5
U	17 44.7	6 4 32	-70.56	146.15	+24 26.7	+ 2.6	5 13.8	+22 0	5.2
28 O	6 11.7	6 33 38	-70.20	144.71	+24 47.4	+ 0.8	6 4.2	+23 8	6.5
U	18 38.4	7 2 22	-69.67	142.66	+24 47.2	- 0.9	6 10.7	+24 0	6.5
29 O	7 4.6	7 30 38	-68.99	140.07	+24 26.8	- 2.5	6 56.9	+24 21	5.3
U	19 30.3	7 58 21	-68.21	137.06	+23 47.5	- 4.0	7 5.7	+27 0	5.5
30 O	7 55.3	8 25 25	-67.34	133.78	+22 50.6	- 5.4	7 55.6	+23 50	6.5
U	20 19.7	8 51 49	-66.41	130.37	+21 37.5	- 6.7	8 0.9	+22 54	6.2
31 O	8 43.4	9 17 32	-65.47	126.97	+20 9.7	- 7.9	8 38.0	+21 48	4.8
U	21 6.4	9 42 36	-64.56	123.71	+18 28.9	- 8.9	9 4.1	+22 25	5.2
April 1 O	9 28.8	10 7 1	-63.72	120.69	+16 36.4	- 9.8	9 33.8	+20 42	6.5
U	21 50.6	10 30 52	-62.95	117.99	+14 33.9	-10.6	9 39.5	+19 17	6.5
2 O	10 11.9	10 54 13	-62.28	115.69	+12 22.7	-11.3	10 27.4	+14 36	5.7
U	22 32.8	11 17 9	-61.73	113.82	+10 4.2	-11.8	10 41.5	+13 14	6.5
3 O	10 53.4	11 39 46	-61.31	112.41	+ 7 39.8	-12.2	11 19.2	+11 2	4.0
U	23 13.8	12 2 8	-61.04	111.49	+ 5 10.8	-12.6	11 33.8	+ 8 38	5.5
4 O	11 34.0	12 24 23	-60.92	111.09	+ 2 38.4	-12.8	11 56.2	+ 7 7	4.6
U	23 54.2	12 46 37	-60.96	111.22	+ 0 4.0	-12.9	12 5.4	+ 6 19	5.7
5 O	12 14.5	13 8 55	+61.15	111.92	- 2 31.0	-12.9	12 48.5	- 3 4	6.1
—	—	—	—	—	—	—	12 55.9	- 2 53	6.1
6 U	0 34.9	13 31 24	+61.49	113.14	- 5 5.3	-12.8	13 30.8	- 4 56	5.8
O	12 55.7	13 54 11	+61.99	114.89	- 7 37.6	-12.6	13 39.2	- 5 2	6.4

März 21 ^h 0 Perigäum.

April 3 ^h 0 Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
April 6.0	13 ^h 30 ^m 20.36		— 4° 58' 4.9		8.19917		14 49.2
6.5	13 52 27.93	22 7.57	7 26 13.4	— 2 28' 8.5	8.20030	+113	14 51.5
7.0	14 14 57.11	22 29.18	9 50 58.9	2 24 45.5	8.20157	127	14 54.1
7.5	14 37 53.36	22 56.25	12 10 53.7	2 19 54.8	8.20298	141	14 57.0
8.0	15 1 21.88	23 28.52	14 24 25.3	2 13 31.6	8.20453	155	15 0.2
8.5	15 25 27.36	24 5.48	16 29 56.2	2 5 30.9	8.20622	169	15 3.7
9.0	15 50 13.75	24 46.39	18 25 43.6	1 55 47.4	8.20806	184	15 7.6
9.5	16 15 43.97	25 30.22	20 10 1.0	1 44 17.4	8.21003	197	15 11.7
10.0	16 41 59.62	26 15.65	21 40 59.2	1 30 58.2	8.21215	212	15 16.2
10.5	17 9 0.63	27 1.01	22 56 48.7	1 15 49.5	8.21442	227	15 21.0
		27 44.39		— 0 58 54.4		+240	
11.0	17 36 45.02	28 23.72	— 23 55 43.1	0 40 20.6	8.21682	252	15 26.1
11.5	18 5 8.74	28 56.96	24 36 3.7	— 0 20 20.2	8.21934	263	15 31.5
12.0	18 34 5.70	29 22.39	24 56 23.9	+ 0 0 49.0	8.22197	272	15 37.1
12.5	19 3 28.09	29 38.82	24 55 34.9	0 22 44.3	8.22469	279	15 43.0
13.0	19 33 6.91	29 45.75	24 32 50.6	0 44 59.6	8.22748	282	15 49.1
13.5	20 2 52.66	29 43.55	23 47 51.0	1 7 6.5	8.23030	280	15 55.3
14.0	20 32 36.21	29 33.33	22 40 44.5	1 28 35.3	8.23310	273	16 1.4
14.5	21 2 9.54	29 16.82	21 12 9.2	1 48 57.6	8.23583	263	16 7.5
15.0	21 31 26.36	28 56.18	19 23 11.6	2 7 47.4	8.23846	245	16 13.4
15.5	22 0 22.54	28 33.60	17 15 24.2	+ 2 24 41.4	8.24091	+220	16 18.9
16.0	22 28 56.14	28 11.31	— 14 50 42.8	2 39 18.9	8.24311	190	16 23.9
16.5	22 57 7.45	27 51.18	12 11 23.9	2 51 23.7	8.24501	154	16 28.2
17.0	23 24 58.63	27 34.71	9 20 0.2	3 0 40.9	8.24655	112	16 31.7
17.5	23 52 33.34	27 23.09	6 19 19.3	3 7 0.4	8.24767	64	16 34.2
18.0	0 19 56.43	27 16.98	3 12 18.9	3 10 14.1	8.24831	+ 14	16 35.7
18.5	0 47 13.41	27 16.67	— 0 2 4.8	3 10 17.6	8.24845	— 38	16 36.0
19.0	1 14 30.08	27 22.09	+ 3 8 12.8	3 7 10.4	8.24807	90	16 35.2
19.5	1 41 52.17	27 32.65	6 15 23.2	3 0 55.2	8.24717	141	16 33.1
20.0	2 9 24.82	27 47.48	9 16 18.4	2 51 38.9	8.24576	190	16 29.9
20.5	2 37 12.30	28 5.22	12 7 57.3	+ 2 39 33.4	8.24386	— 233	16 25.6
21.0	3 5 17.52	28 24.23	+ 14 47 30.7	2 24 53.4	8.24153	270	16 20.3
21.5	3 33 41.75	28 42.51	17 12 24.1	2 7 59.2	8.23883	300	16 14.2
22.0	4 2 24.26	28 57.98	19 20 23.3	1 49 14.1	8.23583	323	16 7.5
22.5	4 31 22.24	29 8.59	21 9 37.4	1 29 4.8	8.23260	339	16 0.3
23.0	5 0 30.83	29 12.50	22 38 42.2	1 8 1.0	8.22921	348	15 52.9
23.5	5 29 43.33	29 8.41	23 46 43.2	0 46 31.4	8.22573	348	15 45.3
24.0	5 58 51.74	28 55.66	24 33 14.6	0 25 5.9	8.22225	342	15 37.7
24.5	6 27 47.40	28 34.37	24 58 20.5	+ 0 4 10.3	8.21883	330	15 30.3
25.0	6 56 21.77	28 5.31	25 2 30.8	— 0 15 51.9	8.21553	313	15 23.3
25.5	7 24 27.08		24 46 38.9		8.21240		15 16.7

April 13 3^h 23.8^m Letztes Viertel.April 19 17^h 44.9^m Neumond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Dekl.	Gr.
April 6 U	0 ^h 34.9	13 ^h 31 ^m 24 ^s	+61.49	113.14	- 5° 5.3	-12.8	13 ^h 30.8	- 4° 56'	5.8
	0 12 55.7	13 54 11	+61.99	114.89	- 7 37.6	-12.6	13 39.2	- 5 2	6.4
7 U	1 16.9	14 17 23	+62.64	117.17	-10 6.2	-12.2	14 19.8	-11 15	6.5
	0 13 38.6	14 41 4	+63.43	119.96	-12 29.6	-11.7	14 32.2	-11 55	6.0
8 U	2 0.8	15 5 22	+64.34	123.21	-14 46.1	-11.0	15 6.8	-15 49	6.5
	0 14 23.7	15 30 21	+65.35	126.87	-16 53.9	-10.2	15 15.9	-15 13	6.0
9 U	2 47.4	15 56 6	+66.44	130.85	-18 51.1	- 9.3	15 49.8	-19 7	6.3
	0 15 12.0	16 22 40	+67.57	135.04	-20 35.7	- 8.1	16 1.5	-20 25	4.1
10 U	3 37.3	16 50 4	+68.69	139.27	-22 5.6	- 6.8	16 51.3	-23 0	5.6
	0 16 3.5	17 18 19	+69.77	143.35	-23 18.7	- 5.3	17 0.8	-21 26	6.6
11 U	4 30.5	17 47 21	+70.74	147.08	-24 13.1	- 3.7	17 54.2	-23 49	4.6
	0 16 58.2	18 17 4	+71.55	150.25	-24 47.0	- 1.9	17 59.6	-24 24	6.5
12 U	5 26.5	18 47 22	+72.16	152.67	-24 58.7	0.0	18 50.5	-23 17	5.9
	0 17 55.1	19 18 4	+72.56	154.22	-24 47.1	+ 2.0	18 56.9	-24 58	5.7
13 U	6 23.9	19 48 59	+72.72	154.83	-24 11.6	+ 4.0	19 48.8	-24 10	6.4
	0 18 52.8	20 19 56	+72.65	154.56	-23 12.0	+ 6.0	19 54.2	-22 28	6.5
14 U	7 21.6	20 50 46	+72.39	153.51	-21 48.9	+ 7.9	20 40.9	-21 51	5.8
	0 19 50.1	21 21 19	+71.97	151.87	-20 3.3	+ 9.7	20 59.2	-20 13	5.0
15 U	8 18.3	21 51 30	+71.45	149.87	-17 56.7	+11.4	21 38.1	-20 2	6.2
	0 20 46.0	22 21 17	+70.89	147.75	-15 31.2	+12.8	21 57.2	-18 20	6.4
16 U	9 13.3	22 50 38	+70.35	145.70	-12 49.4	+14.1			
	0 21 40.2	23 19 36	+69.87	143.90	- 9 54.1	+15.1			
17 U	10 6.8	23 48 14	+69.48	142.52	- 6 48.2	+15.8			
	0 22 33.2	0 16 39	+69.23	141.63	- 3 35.1	+16.3			
18 U	10 59.5	0 44 56	+69.12	141.28	- 0 18.1	+16.5			
	0 23 25.7	1 13 12	+69.16	141.50	+ 2 59.2	+16.4			
19 U	11 52.0	1 41 34	+69.35	142.26	+ 6 13.3	+16.0			
20 U	0 18.5	2 10 8	-69.65	143.41	+ 9 20.8	+15.3			
	0 12 45.3	2 38 58	-70.05	144.96	+12 18.4	+14.3			
21 U	1 12.4	3 8 8	-70.51	146.71	+15 2.8	+13.1			
	0 13 39.9	3 37 40	-70.97	148.48	+17 31.2	+11.6			
22 U	2 7.7	4 7 32	-71.39	150.06	+19 41.2	+10.0			
	0 14 35.8	4 37 40	-71.71	151.22	+21 30.7	+ 8.2			
23 U	3 4.1	5 7 59	-71.88	151.78	+22 58.1	+ 6.3			
	0 15 32.4	5 38 20	-71.86	151.60	+24 2.7	+ 4.4			
24 U	4 0.5	6 8 34	-71.63	150.57	+24 44.0	+ 2.5	5 37.8	+23 10	6.0
	0 16 28.4	6 38 30	-71.20	148.70	+25 2.3	+ 0.6	5 43.4	+24 32	5.1
25 U	4 55.9	7 7 58	-70.56	146.07	+24 58.4	- 1.2	6 38.3	+25 13	3.2
	0 17 22.7	7 36 51	-69.75	142.81	+24 33.3	- 2.9	6 46.5	+23 43	6.5

April 18 9^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
April 25.0	6 ^h 56 ^m 21.77		+25° 2' 30.8		8.21553		15 23.3
25.5	7 24 27.08	28 5.31	24 46 38.9	-0 15 51.9	8.21240	-313	15 16.7
26.0	7 51 57.02	27 29.94	24 11 55.6	0 34 43.3	8.20949	291	15 10.6
26.5	8 18 46.98	26 49.96	23 19 43.3	0 52 12.3	8.20683	266	15 5.0
27.0	8 44 54.34	26 7.36	22 11 32.8	1 8 10.5	8.20446	237	15 0.1
27.5	9 10 18.36	25 24.02	20 48 56.8	1 22 36.0	8.20240	206	14 55.8
28.0	9 34 59.94	24 41.58	19 13 28.0	1 35 28.8	8.20065	175	14 52.2
28.5	9 59 1.50	24 1.56	17 26 36.4	1 46 51.6	8.19922	143	14 49.3
29.0	10 22 26.57	23 25.07	15 29 47.0	1 56 49.4	8.19812	110	14 47.0
29.5	10 45 19.57	22 53.00	13 24 21.1	2 5 25.9	8.19734	78	14 45.4
		22 25.97		-2 12 46.2		-46	
30.0	11 7 45.54	22 4.43	+11 11 34.9	2 18 53.7	8.19688	-17	14 44.5
30.5	11 29 49.97	21 48.72	8 52 41.2	2 23 51.0	8.19671	+12	14 44.2
Mai 1.0	11 51 38.69	21 38.99	6 28 50.2	2 27 39.6	8.19683	38	14 44.4
1.5	12 13 17.68	21 35.40	4 1 10.6	2 30 19.5	8.19721	63	14 45.2
2.0	12 34 53.08	21 37.98	+1 30 51.1	2 31 49.0	8.19784	84	14 46.5
2.5	12 56 31.06	21 46.76	-1 0 57.9	2 32 5.5	8.19868	104	14 48.2
3.0	13 18 17.82	22 1.70	3 33 3.4	2 31 4.6	8.19972	121	14 50.3
3.5	13 40 19.52	22 22.68	6 4 8.0	2 28 41.8	8.20093	137	14 52.8
4.0	14 2 42.20	22 49.49	8 32 49.8	2 24 50.7	8.20230	149	14 55.6
4.5	14 25 31.69	23 21.80	10 57 40.5	-2 19 24.2	8.20379	+159	14 58.7
5.0	14 48 53.49	23 59.01	-13 17 4.7	2 12 16.2	8.20538	169	15 2.0
5.5	15 12 52.50	24 40.33	15 29 20.9	2 3 20.0	8.20707	176	15 5.5
6.0	15 37 32.83	25 24.71	17 32 40.9	1 52 30.1	8.20883	182	15 9.2
6.5	16 2 57.54	26 10.61	19 25 11.0	1 39 43.6	8.21065	187	15 13.0
7.0	16 29 8.15	26 56.29	21 4 54.6	1 25 0.5	8.21252	191	15 16.9
7.5	16 56 4.44	27 39.69	22 29 55.1	1 8 24.8	8.21443	194	15 21.0
8.0	17 23 44.13	28 18.55	23 38 19.9	0 50 5.7	8.21637	196	15 25.1
8.5	17 52 2.68	28 50.76	24 28 25.6	0 30 17.4	8.21833	198	15 29.3
9.0	18 20 53.44	29 14.46	24 58 43.0	-0 9 20.6	8.22031	200	15 33.5
9.5	18 50 7.90	29 28.44	25 8 3.6	+0 12 20.5	8.22231	+201	15 37.8
10.0	19 19 36.34	29 32.30	-24 55 43.1	0 34 18.2	8.22432	201	15 42.2
10.5	19 49 8.64	29 26.45	24 21 24.9	0 56 3.6	8.22633	200	15 46.6
11.0	20 18 35.09	29 12.20	23 25 21.3	1 17 8.6	8.22833	198	15 50.9
11.5	20 47 47.29	28 51.47	22 8 12.7	1 37 8.2	8.23031	194	15 55.3
12.0	21 16 38.76	28 26.54	20 31 4.5	1 55 40.6	8.23225	187	15 59.6
12.5	21 45 5.30	27 59.83	18 35 23.9	2 12 27.5	8.23412	177	16 3.7
13.0	22 13 5.13	27 33.62	16 22 56.4	2 27 14.9	8.23589	165	16 7.6
13.5	22 40 38.75	27 9.89	13 55 41.5	2 39 51.8	8.23754	150	16 11.3
14.0	23 7 48.64	26 50.29	11 15 49.7	2 50 9.3	8.23904	130	16 14.7
14.5	23 34 38.93		8 25 40.4		8.24034		16 17.6

April 26 ^h 21^m 29.8 Erst. Viert. Mai 5 ^h 1^m 1.4 Vollmond. Mai 12 ^h 10^m 38.9 Letzt. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. -Sterne			
							AR.	Dekl.	Gr.	
April 25	O	4 ^h 55.9 ^m	7 ^h 7 ^m 58 ^s	-70.56	146.07	+24 58.4	-1.2	6 ^h 38.3 ^m	+25 13	3.2
	U	17 22.7	7 36 51	-69.75	142.81	+24 33.3	-2.9	6 46.5	+23 43	6.5
26	O	5 48.8	8 5 2	-68.82	139.10	+23 48.7	-4.5	7 27.4	+23 5	6.0
	U	18 14.2	8 32 27	-67.80	135.15	+22 46.2	-5.9	7 38.9	+24 37	3.7
27	O	6 38.8	8 59 4	-66.75	131.14	+21 27.5	-7.2	8 33.4	+24 1	6.5
	U	19 2.6	9 24 53	-65.70	127.24	+19 54.4	-8.3	8 38.0	+21 48	4.8
28	O	7 25.6	9 49 57	-64.71	123.58	+18 8.6	-9.3	9 33.8	+20 42	6.5
	U	19 48.0	10 14 19	-63.79	120.28	+16 11.7	-10.2	9 38.3	+20 37	6.5
29	O	8 9.7	10 38 4	-62.97	117.41	+14 5.3	-10.9	10 2.4	+17 12	3.6
	U	20 30.9	11 1 17	-62.29	115.03	+11 50.8	-11.5	10 17.0	+15 26	6.2
30	O	8 51.6	11 24 5	-61.74	113.17	+ 9 29.5	-12.0	10 59.8	+13 9	6.5
	U	21 12.1	11 46 35	-61.34	111.87	+ 7 2.8	-12.4	11 19.2	+11 2	4.0
Mai 1	O	9 32.4	12 8 52	-61.11	111.13	+ 4 31.7	-12.7	11 43.3	+ 8 45	5.2
	U	21 52.5	12 31 4	-61.04	110.96	+ 1 57.6	-12.9	11 56.2	+ 7 7	4.6
2	O	10 12.7	12 53 17	-61.13	111.38	- 0 38.3	-13.0	12 15.7	+ 3 49	5.2
	U	22 33.1	13 15 39	-61.38	112.37	- 3 14.7	-13.0	12 33.7	+ 2 21	6.1
3	O	10 53.7	13 38 17	-61.81	113.93	- 5 50.3	-12.9	13 18.6	- 4 27	6.1
	U	23 14.7	14 1 17	-62.39	116.05	- 8 23.6	-12.6	13 25.7	- 6 0	6.1
4	O	11 36.1	14 24 46	-63.12	118.72	-10 53.0	-12.2	13 55.3	- 7 43	6.5
	U	23 58.1	14 48 50	-63.98	122.01	-13 16.7	-11.7	13 59.6	- 8 49	6.5
5	O	12 20.8	15 13 35	+64.96	125.68	-15 33.0	-11.0	14 49.5	-11 32	5.9
	U	—	—	—	—	—	—	15 1.6	-15 54	5.4
6	O	0 44.3	15 39 5	+66.03	129.66	-17 39.9	-10.1	15 36.7	-19 23	5.0
	U	13 8.6	16 5 25	+67.15	133.87	-19 35.3	-9.1	15 44.7	-17 37	6.5
7	O	1 33.7	16 32 36	+68.27	138.14	-21 16.9	-7.8	16 35.2	-20 14	6.5
	U	13 59.7	17 0 37	+69.36	142.28	-22 42.5	-6.4	16 39.7	-23 1	6.5
8	O	2 26.5	17 29 26	+70.35	146.05	-23 50.1	-4.8	17 25.9	-23 54	4.9
	U	14 54.0	17 58 58	+71.18	149.24	-24 37.6	-3.1	17 29.9	-21 59	6.5
9	O	3 22.1	18 29 4	+71.80	151.65	-25 3.5	-1.2	18 28.3	-24 6	5.9
	U	15 50.5	18 59 33	+72.21	153.12	-25 6.5	+0.7	18 36.3	-23 55	6.2
10	O	4 19.1	19 30 14	+72.37	153.61	-24 45.9	+2.7	19 30.5	-24 55	5.8
	U	16 47.7	20 0 56	+72.28	153.15	-24 1.6	+4.7	19 34.7	-23 38	6.2
11	O	5 16.2	20 31 27	+71.99	151.84	-22 54.0	+6.6	20 34.8	-24 6	6.5
	U	17 44.4	21 1 38	+71.52	149.90	-21 24.2	+8.4	20 40.9	-21 51	5.8
12	O	6 12.1	21 31 24	+70.94	147.55	-19 33.5	+10.0	21 32.0	-19 52	4.5
	U	18 39.3	22 0 41	+70.31	145.04	-17 23.9	+11.5	21 37.6	-19 17	4.8
13	O	7 6.0	22 29 27	+69.69	142.61	-14 57.5	+12.8	22 21.6	-17 12	5.6
	U	19 32.3	22 57 45	+69.12	140.44	-12 16.6	+13.9	22 42.9	-14 32	5.6
14	O	7 58.2	23 25 40	+68.65	138.68	- 9 23.8	+14.8	23 14.2	-10 7	5.2
	U	20 23.7	23 53 17	+68.32	137.47	- 6 21.8	+15.5	23 30.8	- 7 58	6.5

April 30 13^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.	
Mai	14.0	23 ^h 7 ^m 48.64	26 ^m 50.29	-11° 15' 49.7	+2° 50' 9.3	8.23904	+130	16 14.7
	14.5	23 34 38.93	26 36.05	8 25 40.4	2 57 59.3	8.24034	105	16 17.6
	15.0	0 1 14.98	26 28.02	5 27 41.1	3 3 15.9	8.24139	77	16 20.0
	15.5	0 27 43.00	26 26.67	- 2 24 25.2	3 5 52.3	8.24216	45	16 21.7
	16.0	0 54 9.67	26 32.10	+ 0 41 27.1	3 5 43.5	8.24261	+ 10	16 22.7
	16.5	1 20 41.77	26 44.04	3 47 10.6	3 2 45.8	8.24271	- 27	16 22.9
	17.0	1 47 25.81	27 1.90	6 49 56.4	2 56 56.7	8.24244	66	16 22.3
	17.5	2 14 27.71	27 24.61	9 46 53.1	2 48 16.8	8.24178	105	16 20.8
	18.0	2 41 52.32	27 50.69	12 35 9.9	2 36 49.6	8.24073	144	16 18.4
	18.5	3 9 43.01	28 18.26	15 11 59.5	+2 22 43.6	8.23929	-180	16 15.2
	19.0	3 38 1.27	28 45.09	+17 34 43.1	2 6 12.5	8.23749	214	16 11.2
	19.5	4 6 46.36	29 8.63	19 40 55.6	1 47 36.2	8.23535	243	16 6.4
	20.0	4 35 54.99	29 26.38	21 28 31.8	1 27 19.3	8.23292	268	16 1.0
	20.5	5 5 21.37	29 36.10	22 55 51.1	1 5 51.8	8.23024	286	15 55.1
	21.0	5 34 57.47	29 36.06	24 1 42.9	0 43 46.5	8.22738	298	15 48.9
	21.5	6 4 33.53	29 25.43	24 45 29.4	+0 21 38.1	8.22440	306	15 42.4
	22.0	6 33 58.96	29 4.26	25 7 7.5	-0 0 2.1	8.22134	306	15 35.8
	22.5	7 3 3.22	28 33.55	25 7 5.4	0 20 45.2	8.21828	300	15 29.2
	23.0	7 31 36.77	27 55.09	24 46 20.2	0 40 9.4	8.21528	289	15 22.8
	23.5	7 59 31.86	27 11.10	24 6 10.8	-0 57 59.1	8.21239	-273	15 16.7
	24.0	8 26 42.96	26 23.96	+23 8 11.7	1 14 5.9	8.20966	252	15 10.9
	24.5	8 53 6.92	25 35.98	21 54 5.8	1 28 26.7	8.20714	227	15 5.6
	25.0	9 18 42.90	24 49.22	20 25 39.1	1 41 3.2	8.20487	200	15 0.9
	25.5	9 43 32.12	24 5.32	18 44 35.9	1 52 0.4	8.20287	169	14 56.8
	26.0	10 7 37.44	23 25.64	16 52 35.5	2 1 25.2	8.20118	137	14 53.3
	26.5	10 31 3.08	22 51.06	14 51 10.3	2 9 24.1	8.19981	103	14 50.5
	27.0	10 53 54.14	22 22.32	12 41 46.2	2 16 3.9	8.19878	69	14 48.4
	27.5	11 16 16.46	21 59.81	10 25 42.3	2 21 30.9	8.19809	34	14 47.0
	28.0	11 38 16.27	21 43.92	8 4 11.4	2 25 49.5	8.19775	- 1	14 46.3
	28.5	12 0 0.19	21 34.74	5 38 21.9	-2 29 2.0	8.19774	+ 31	14 46.3
	29.0	12 21 34.93	21 32.37	+ 3 9 19.9	2 31 9.3	8.19805	63	14 46.9
	29.5	12 43 7.30	21 36.90	+ 0 38 10.6	2 32 10.6	8.19868	92	14 48.2
30.0	13 4 44.20	21 48.33	- 1 54 0.0	2 32 2.6	8.19960	119	14 50.1	
30.5	13 26 32.53	22 6.56	4 26 2.6	2 30 40.9	8.20079	142	14 52.5	
31.0	13 48 39.09	22 31.49	6 56 43.5	2 27 58.5	8.20221	163	14 55.4	
31.5	14 11 10.58	23 2.82	9 24 42.0	2 23 47.4	8.20384	181	14 58.8	
Juni	1.0	14 34 13.40	23 40.17	11 48 29.4	2 17 59.0	8.20565	194	15 2.5
	1.5	14 57 53.57	24 22.76	14 6 28.4	2 10 24.2	8.20759	205	15 6.6
	2.0	15 22 16.33	25 9.65	16 16 52.6	2 0 53.3	8.20964	213	15 10.9
	2.5	15 47 25.98		18 17 45.9		8.21177		15 15.4

Mai 19 2^h 35.6 Neumond.Mai 26 14^h 21.4 Erstes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Dekl.	Gr.
Mai 14	U 7 ^h 58.2 ^m	23 25 40 ^s	+68.65	138.68	- 9 23.8	+14.8	23 14.2	-10 7	5.2
	O 20 23.7	23 53 17	+68.32	137.47	- 6 21.8	+15.5	23 30.8	- 7 58	6.5
15	U 8 49.1	0 20 42	+68.13	136.88	- 3 13.4	+15.9			
	O 21 14.5	0 48 5	+68.10	136.93	- 0 1.4	+16.1			
16	U 9 39.9	1 15 31	+68.25	137.62	+ 3 11.2	+16.0			
	O 22 5.5	1 43 10	+68.56	138.93	+ 6 21.2	+15.6			
17	U 10 31.4	2 11 7	+69.01	140.79	+ 9 25.5	+15.0			
	O 22 57.7	2 39 29	+69.57	143.06	+12 21.0	+14.2			
18	U 11 24.5	3 8 20	+70.19	145.59	+15 4.6	+13.1			
	O 23 51.8	3 37 42	+70.83	148.16	+17 33.2	+11.7			
19	U 12 19.6	4 7 34	-71.42	150.47	+19 44.1	+10.1			
20	O 0 47.9	4 37 52	-71.91	152.42	+21 35.0	+ 8.3			
	U 13 16.5	5 8 30	-72.23	153.69	+23 3.9	+ 6.4			
21	O 1 45.2	5 39 17	-72.34	154.06	+24 9.5	+ 4.5			
	U 14 13.9	6 10 3	-72.21	153.42	+24 51.2	+ 2.5			
22	O 2 42.4	6 40 35	-71.82	151.73	+25 9.0	+ 0.5			
	U 15 10.4	7 10 40	-71.19	149.07	+25 3.6	- 1.4			
23	O 3 37.8	7 40 8	-70.36	145.62	+24 36.2	- 3.2			
	U 16 4.5	8 8 51	-69.38	141.60	+23 48.4	- 4.8			
24	O 4 30.4	8 36 43	-68.30	137.25	+22 42.2	- 6.2	8 8.3	+23 25	6.5
	U 16 55.3	9 3 42	-67.17	132.81	+21 19.5	- 7.5	8 15.1	+24 19	5.7
25	O 5 19.4	9 29 49	-66.04	128.47	+19 42.3	- 8.6	9 4.1	+22 25	5.2
	U 17 42.6	9 55 5	-64.96	124.41	+17 52.6	- 9.6	9 8.4	+21 40	6.5
26	O 6 5.1	10 19 35	-63.98	120.76	+15 52.1	-10.4	9 39.4	+19 17	6.5
	U 18 26.9	10 43 24	-63.12	117.60	+13 42.6	-11.1	10 2.4	+17 12	3.6
27	O 6 48.1	11 6 38	-62.40	114.99	+11 25.4	-11.7	10 41.6	+14 41	5.7
	U 19 8.8	11 29 25	-61.82	112.98	+ 9 2.0	-12.2	10 59.8	+13 9	6.5
28	O 7 29.2	11 51 51	-61.41	111.59	+ 6 33.6	-12.5	11 19.2	+11 2	4.0
	U 19 49.4	12 14 5	-61.18	110.83	+ 4 1.5	-12.8	11 33.8	+ 8 38	5.5
29	O 8 9.5	12 36 13	-61.12	110.71	+ 1 26.7	-13.0	12 5.4	+ 6 19	5.7
	U 20 29.7	12 58 24	-61.24	111.23	- 1 9.5	-13.1	12 15.7	+ 3 49	5.2
30	O 8 50.1	13 20 46	-61.54	112.39	- 3 46.0	-13.0	12 48.5	- 3 4	6.1
	U 21 10.7	13 43 25	-62.02	114.19	- 6 21.5	-12.9	12 55.9	- 2 53	6.1
31	O 9 31.7	14 6 30	-62.67	116.61	- 8 54.5	-12.6	13 43.6	- 6 23	6.5
	U 21 53.3	14 30 8	-63.48	119.64	-11 23.6	-12.2	13 50.2	- 7 37	6.4
Juni 1	O 10 15.6	14 54 25	-64.43	123.22	-13 46.9	-11.6	14 19.8	11 15	6.5
	U 22 38.6	15 19 29	-65.50	127.29	-16 2.6	-10.9	14 32.2	-11 55	6.0
2	O 11 2.5	15 45 24	-66.66	131.74	-18 8.5	-10.0	15 18.0	-14 49	6.8
	U 23 27.3	16 12 13	-67.86	136.41	-20 2.4	- 8.9	15 23.1	-16 24	6.0

Mai 16 9^h Perigäum.

Mai 28 6^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Dif.	Wahre Dekl.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.
Juni 2.0	15 ^h 22 ^m 16.33	^m 9.65	—16° 16' 52.6		8.20964		15' 10.9
2.5	15 47 25.98	25 59.37	18 17 45.9	—2 0 53.3	8.21177	+213	15 15.4
3.0	16 13 25.35	26 50.08	20 7 5.1	1 49 19.2	8.21393	216	15 19.9
3.5	16 40 15.43	27 39.49	21 42 42.8	1 35 37.7	8.21609	216	15 24.5
4.0	17 7 54.92	28 25.02	23 2 31.6	1 19 48.8	8.21822	213	15 29.1
4.5	17 36 19.94	29 4.01	24 4 29.5	1 1 57.9	8.22030	208	15 33.5
5.0	18 5 23.95	29 33.95	24 46 47.6	0 42 18.1	8.22231	201	15 37.8
5.5	18 34 57.90	29 52.94	25 7 57.8	—0 21 10.2	8.22422	191	15 42.0
6.0	19 4 50.84	30 0.01	25 6 58.8	+0 0 59.0	8.22603	181	15 45.9
6.5	19 34 50.85	29 55.15	24 43 21.3	0 23 37.5	8.22771	168	15 49.6
7.0	20 4 46.00	29 39.54	—23 57 10.9	+0 46 10.4	8.22926	+155	15 53.0
7.5	20 34 25.54	29 15.25	22 49 7.4	1 8 3.5	8.23069	143	15 56.1
8.0	21 3 40.79	28 44.90	21 20 20.9	1 28 46.5	8.23198	129	15 59.0
8.5	21 32 25.69	28 11.27	19 32 26.9	1 47 54.0	8.23314	116	16 1.5
9.0	22 0 36.96	27 37.19	17 27 20.0	2 5 6.9	8.23417	103	16 3.8
9.5	22 28 14.15	27 5.01	15 7 8.3	2 20 11.7	8.23507	90	16 5.8
10.0	22 55 19.16	26 36.77	12 34 7.6	2 33 0.7	8.23583	76	16 7.5
10.5	23 21 55.93	26 13.94	9 50 38.6	2 43 29.0	8.23646	63	16 8.9
11.0	23 48 9.87	25 57.62	6 59 3.3	2 51 35.3	8.23694	48	16 10.0
11.5	0 14 7.49	25 48.51	4 1 44.8	2 57 18.5	8.23727	33	16 10.7
12.0	0 39 56.00	25 46.88	—1 1 6.4	+3 0 38.4	8.23743	+16	16 11.1
12.5	1 5 42.88	25 52.81	+2 0 27.2	3 1 33.6	8.23741	—2	16 11.0
13.0	1 31 35.69	26 5.85	5 0 30.3	3 0 3.1	8.23720	21	16 10.5
13.5	1 57 41.54	26 25.38	7 56 35.1	2 56 4.8	8.23678	42	16 9.6
14.0	2 24 6.92	26 50.35	10 46 12.8	2 49 37.7	8.23614	64	16 8.2
14.5	2 50 57.27	27 19.27	13 26 53.7	2 40 40.9	8.23527	87	16 6.2
15.0	3 18 16.54	27 50.26	15 56 9.1	2 29 15.4	8.23416	111	16 3.8
15.5	3 46 6.80	28 20.97	18 11 34.4	2 15 25.3	8.23281	135	16 c.8
16.0	4 14 27.77	28 48.91	20 10 54.1	1 59 19.7	8.23122	159	15 57.3
16.5	4 43 16.68	29 11.29	21 52 7.3	1 41 13.2	8.22942	180	15 53.3
17.0	5 12 27.97	29 25.71	+23 13 32.8	+1 21 25.5	8.22742	—200	15 48.9
17.5	5 41 53.68	29 30.16	24 13 55.2	1 0 22.4	8.22524	218	15 44.2
18.0	6 11 23.84	29 23.52	24 52 30.1	0 38 34.9	8.22291	233	15 39.2
18.5	6 40 47.36	29 5.61	25 9 6.5	+0 16 36.4	8.22047	244	15 33.9
19.0	7 9 52.97	28 37.31	25 4 5.9	—0 5 0.6	8.21796	251	15 28.5
19.5	7 38 30.28	28 0.32	24 38 20.6	0 25 45.3	8.21544	252	15 23.1
20.0	8 6 30.60	27 16.94	23 53 7.9	0 45 12.7	8.21293	251	15 17.8
20.5	8 33 47.54	26 29.68	22 50 3.4	1 3 4.5	8.21049	244	15 12.7
21.0	9 0 17.22	25 40.98	21 30 53.5	1 19 9.9	8.20817	232	15 7.8
21.5	9 25 58.20		19 57 29.8	1 33 23.7	8.20600	217	15 3.3

Juni 3 14^h 18.3 Vollmond. Juni 10 15^h 36.2 Letzt. Viert. Juni 17 12^h 21.9 Neumond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne			
							AR.	Dekl.	Gr.	
Juni 2	O	11 ^h 25 ^m	15 ^h 45 ^m 24 ^s	-66.66	131.74	-18° 8.5'	-10.0	15 18.0	-14 49	6.8
	U	23 27.3	16 12 13	-67.86	136.41	-20 2.4	- 8.9	15 23.1	-16 24	6.0
3	O	11 53.0	16 39 59	-69.05	141.10	-21 41.9	- 7.6	16 13.8	-20 0	6.0
	—	—	—	—	—	—	—	16 18.8	-19 49	4.6
4	U	0 19.6	17 8 41	+70.17	145.74	-23 4.5	- 6.1	17 12.5	-24 11	6.0
	O	12 47.1	17 38 13	+71.17	149.70	-24 7.9	- 4.4	17 16.4	-24 55	3.4
5	U	1 15.3	18 8 28	+71.97	152.86	-24 50.0	- 2.6	18 6.2	-23 43	5.3
	O	13 44.1	18 39 16	+72.53	155.03	-25 9.2	- 0.6	18 22.4	-25 28	2.9
6	U	2 13.2	19 10 24	+72.81	156.06	-25 4.3	+ 1.4	19 10.0	-24 20	6.4
	O	14 42.3	19 41 36	+72.81	155.89	-24 34.9	+ 3.5	19 19.8	-24 41	5.1
7	U	3 11.3	20 12 41	+72.54	154.63	-23 41.2	+ 5.5	20 12.7	-22 5	6.0
	O	15 40.0	20 43 25	+72.05	152.48	-22 24.1	+ 7.4	20 24.2	-22 42	6.5
8	U	4 8.2	21 13 39	+71.39	149.69	-20 45.2	+ 9.1	20 59.2	-20 13	5.0
	O	16 35.8	21 43 18	+70.64	146.56	-18 46.4	+10.7	21 32.0	-19 52	4.5
9	U	5 2.8	22 12 18	+69.86	143.36	-16 30.1	+12.0	21 57.2	-18 20	6.4
	O	17 29.1	22 40 41	+69.11	140.35	-13 58.7	+13.2	22 21.6	-17 12	5.6
10	U	5 54.9	23 8 29	+68.44	137.72	-11 14.7	+14.1	23 9.9	-11 11	6.3
	O	18 20.2	23 35 49	+67.90	135.62	- 8 20.9	+14.8	23 14.2	-10 7	5.2
11	U	6 45.1	0 2 48	+67.51	134.15	- 5 19.8	+15.3	0 0.7	- 6 13	4.6
	O	19 9.8	0 29 32	+67.29	133.37	- 2 14.2	+15.6	0 5.7	- 5 45	5.9
12	U	7 34.4	0 56 12	+67.25	133.32	+ 0 53.5	+15.6	0 59.1	+ 0 53	6.0
	O	19 59.1	1 22 55	+67.40	133.99	+ 4 0.6	+15.5	1 5.9	+ 1 58	6.3
13	U	8 24.0	1 49 50	+67.72	135.33	+ 7 4.3	+15.1	1 36.7	+ 5 2	4.7
	O	20 49.2	2 17 4	+68.19	137.28	+10 2.0	+14.5	2 6.5	+ 8 9	5.7
14	U	9 14.8	2 44 45	+68.78	139.72	+12 51.0	+13.7	—	—	—
	O	21 41.0	3 12 57	+69.46	142.49	+15 28.4	+12.6	—	—	—
15	U	10 7.7	3 41 44	+70.17	145.41	+17 51.5	+11.3	—	—	—
	O	22 35.0	4 11 6	+70.85	148.22	+19 57.7	+ 9.8	—	—	—
16	U	11 2.9	4 40 59	+71.43	150.65	+21 44.8	+ 8.1	—	—	—
	O	23 31.1	5 11 17	+71.86	152.44	+23 10.7	+ 6.2	—	—	—
17	U	11 59.6	5 41 52	+72.08	153.28	+24 19.3	+ 4.3	—	—	—
18	O	0 28.3	6 12 33	-72.06	153.23	+24 53.6	+ 2.3	—	—	—
	U	12 56.8	6 43 6	-71.77	152.04	+25 9.5	+ 0.3	—	—	—
19	O	1 24.9	7 13 17	-71.23	149.77	+25 2.1	- 1.6	—	—	—
	U	13 52.5	7 42 55	-70.46	146.59	+24 32.5	- 3.4	—	—	—
20	O	2 19.4	8 11 51	-69.51	142.72	+23 42.3	- 5.0	—	—	—
	U	14 45.5	8 39 57	-68.44	138.40	+22 33.3	- 6.5	—	—	—
21	O	3 10.6	9 7 10	-67.31	133.89	+21 7.5	- 7.8	—	—	—
	U	15 34.9	9 33 29	-66.17	129.44	+19 27.1	- 8.9	—	—	—

Juni 12 ^h 5 Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Juni 21.0	9 ^h 0 ^m 17.22		+21° 30' 53.5		8.20817		15' 7.8
21.5	9 25 58.20	25 40.98	19 57 29.8	-1 33 23.7	8.20600	-217	15 3.3
22.0	9 50 51.36	24 53.16	18 11 43.1	1 45 46.7	8.20403	197	14 59.2
22.5	10 14 59.31	24 7.95	16 15 19.6	1 56 23.5	8.20230	173	14 55.6
23.0	10 38 26.18	23 26.87	14 9 58.8	2 5 20.8	8.20082	148	14 52.6
23.5	11 1 17.12	22 50.94	11 57 11.9	2 12 46.9	8.19964	118	14 50.2
24.0	11 23 38.11	22 20.99	9 38 22.5	2 18 49.4	8.19877	87	14 48.4
24.5	11 45 35.57	21 57.46	7 14 46.1	2 23 36.4	8.19823	54	14 47.3
25.0	12 7 16.32	21 40.75	4 47 33.3	2 27 12.8	8.19803	-20	14 46.9
25.5	12 28 47.39	21 31.07	+ 2 17 50.2	2 29 43.1	8.19818	+15	14 47.2
26.0	12 50 15.92	21 28.53	- 0 13 19.2	-2 31 9.4	8.19867	+49	14 48.2
26.5	13 11 49.18	21 33.26	2 44 51.7	2 31 32.5	8.19950	83	14 49.9
27.0	13 33 34.48	21 45.30	5 15 41.1	2 30 49.4	8.20066	116	14 52.3
27.5	13 55 39.09	22 4.61	7 44 37.8	2 28 56.7	8.20213	147	14 55.3
28.0	14 18 10.24	22 31.15	10 10 25.6	2 25 47.8	8.20388	175	14 58.9
28.5	14 41 14.91	23 4.67	12 31 40.0	2 21 14.4	8.20588	200	15 3.0
29.0	15 4 59.71	23 44.80	14 46 46.2	2 15 6.2	8.20811	223	15 7.6
29.5	15 29 30.50	24 30.79	16 53 59.5	2 7 13.3	8.21052	241	15 12.7
30.0	15 54 52.18	25 21.68	18 51 23.8	1 57 24.3	8.21307	255	15 18.1
30.5	16 21 8.06	26 15.88	20 36 53.0	1 45 29.2	8.21571	264	15 23.7
		27 11.39		-1 31 21.0		+268	
Juli 1.0	16 48 19.45	27 5.63	-22 8 14.0	1 14 57.9	8.21839	267	15 29.4
1.5	17 16 25.08	28 55.73	23 23 11.9	0 56 23.6	8.22106	261	15 35.2
2.0	17 45 20.81	29 38.45	24 19 35.5	0 35 51.8	8.22367	251	15 40.8
2.5	18 14 59.26	30 11.00	24 55 27.3	-0 13 44.4	8.22618	236	15 46.2
3.0	18 45 10.26	30 31.09	25 9 11.7	+0 9 27.8	8.22854	217	15 51.4
3.5	19 15 41.35	30 37.59	24 59 43.9	0 33 7.0	8.23071	194	15 56.2
4.0	19 46 18.94	30 30.58	24 26 36.9	0 56 32.2	8.23265	168	16 0.5
4.5	20 16 49.52	30 11.55	23 30 4.7	1 19 3.7	8.23433	142	16 4.2
5.0	20 47 1.07	29 42.86	22 11 1.0	1 40 4.8	8.23575	114	16 7.3
5.5	21 16 43.93	29 7.59	20 30 56.2	+1 59 6.2	8.23689	+86	16 9.9
6.0	21 45 51.52	28 28.97	-18 31 50.0	2 15 47.8	8.23775	58	16 11.8
6.5	22 14 20.49	27 50.08	16 16 2.2	2 29 55.7	8.23833	31	16 13.1
7.0	22 42 10.57	27 13.50	13 46 6.5	2 41 24.2	8.23864	+6	16 13.8
7.5	23 9 24.07	26 41.36	11 4 42.3	2 50 12.8	8.23870	-18	16 13.9
8.0	23 36 5.43	26 15.08	8 14 29.5	2 56 23.6	8.23852	39	16 13.5
8.5	0 2 20.51	25 55.79	5 18 5.9	3 0 0.9	8.23813	57	16 12.6
9.0	0 28 16.30	25 44.04	- 2 18 5.0	3 1 10.0	8.23756	74	16 11.4
9.5	0 54 0.34	25 40.02	+ 0 43 5.0	2 59 55.7	8.23682	90	16 9.7
10.0	1 19 40.36	25 43.66	3 43 0.7	2 56 21.4	8.23592	103	16 7.7
10.5	1 45 24.02		6 39 22.1		8.23489		16 5.4

Juni 25 ^h 7 ^m 36.4 Erst. Viert.Juli 3 ^h 1 ^m 10.9 Vollmond.Juli 9 ^h 19 ^m 51.7 Letzt. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-l. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne			
							AR.	Dekl.	Gr.	
Juni 21	O	^h 3 ^m 10.6	^h 9 ^m 7 ^s 10	-67.31	133.89	+21° 7.5	- 7.8			
	U	15 34.9	9 33 29	-66.17	129.44	+19 27.1	- 8.9			
22	O	3 58.3	9 58 55	-65.08	125.22	+17 34.3	- 9.9	^h 9 ^m 33.8	+20 42	6.5
	U	16 20.9	10 23 34	-64.07	121.37	+15 30.9	-10.7	9 38.3	+20 37	6.5
23	O	4 42.8	10 47 29	-63.18	118.01	+13 18.6	-11.3	10 16.9	+15 26	6.2
	U	17 4.1	11 10 47	-62.43	115.21	+10 59.2	-11.9	10 27.3	+14 36	5.7
24	O	5 24.8	11 33 35	-61.84	113.02	+ 8 34.1	-12.3	10 59.8	+13 9	6.5
	U	17 45.2	11 56 1	-61.41	111.46	+ 6 4.6	-12.6	11 19.2	+11 2	4.0
25	O	6 5.4	12 18 12	-61.16	110.57	+ 3 31.8	-12.8	11 56.2	+ 7 7	4.6
	U	18 25.5	12 40 17	-61.10	110.34	+ 0 57.0	-12.9	12 5.4	+ 6 19	5.7
26	O	6 45.6	13 2 23	-61.22	110.79	- 1 38.7	-13.0	12 33.7	+ 2 21	6.1
	U	19 5.8	13 24 39	-61.53	111.92	- 4 14.2	-12.9	12 48.5	- 3 4	6.1
27	O	7 26.3	13 47 13	-62.03	113.73	- 6 48.3	-12.7	13 25.7	- 6 0	6.1
	U	19 47.3	14 10 13	-62.70	116.22	- 9 19.7	-12.5	13 30.8	- 4 56	5.8
28	O	8 8.8	14 33 46	-63.55	119.38	-11 46.9	-12.1	14 8.1	- 9 51	4.3
	U	20 31.0	14 58 2	-64.55	123.16	-14 8.3	-11.5	14 12.6	- 8 36	6.5
29	O	8 54.0	15 23 6	-65.68	127.49	-16 22.0	-10.8	14 49.5	-11 32	5.9
	U	21 18.0	15 49 5	-66.92	132.27	-18 25.9	- 9.8	15 1.6	-15 54	5.4
30	O	9 43.0	16 16 4	-68.20	137.35	-20 17.8	- 8.7	15 44.7	-17 37	6.5
	U	22 8.9	16 44 5	-69.49	142.51	-21 55.1	- 7.4	15 49.8	-19 7	6.3
Juli 1	O	10 35.9	17 13 6	-70.71	147.48	-23 15.3	- 5.9	16 39.7	-23 1	6.5
	U	23 3.9	17 43 4	-71.79	151.96	-24 15.9	- 4.2	16 50.2	-21 25	6.5
2	O	11 32.6	18 13 51	-72.67	155.60	-24 54.5	- 2.3	17 29.9	-21 59	6.5
	U	—	—	—	—	—	—	17 54.3	-23 49	4.6
3	U	0 1.9	18 45 15	-73.28	158.17	-25 9.2	- 0.2	18 40.0	-27 5	3.3
	O	12 31.6	19 17 2	+73.57	159.43	-24 58.8	+ 2.0	18 49.7	-26 25	2.1
4	U	1 1.5	19 48 56	+73.55	159.28	-24 22.7	+ 4.1	19 48.9	-24 10	6.4
	O	13 31.2	20 20 41	+73.24	157.87	-23 21.3	+ 6.2	19 54.2	-22 28	6.5
5	U	2 0.5	20 52 2	+72.68	155.44	-21 55.7	+ 8.1	20 40.9	-21 51	5.8
	O	14 29.2	21 22 49	+71.93	152.26	-20 7.7	+ 9.9	20 59.3	-20 13	5.0
6	U	2 57.3	21 52 56	+71.08	148.67	-17 59.8	+11.4	21 38.2	-20 2	6.2
	O	15 24.6	22 22 19	+70.20	145.02	-15 34.7	+12.7	21 57.2	-18 20	6.4
7	U	3 51.2	22 50 59	+69.35	141.55	-12 55.4	+13.8	22 48.7	-12 6	5.8
	O	16 17.2	23 19 0	+68.59	138.49	-10 4.8	+14.6	22 54.8	-13 34	6.5
8	U	4 42.6	23 46 27	+67.97	135.98	- 7 5.9	+15.2	23 43.9	- 6 53	6.4
	O	17 7.6	0 13 27	+67.51	134.15	- 4 1.5	+15.5	23 57.3	- 6 31	4.7
9	U	5 32.3	0 40 10	+67.22	133.04	- 0 54.5	+15.6	0 30.9	- 1 0	6.0
	O	17 56.8	1 6 44	+67.12	132.68	+ 2 12.5	+15.5	0 59.1	+ 0 53	6.0
10	U	6 21.3	1 33 17	+67.22	133.04	+ 5 17.0	+15.2	1 25.4	+ 5 41	5.2
	O	18 46.0	1 59 59	+67.48	134.09	+ 8 16.4	+14.7	1 36.7	+ 5 2	4.7

Juni 25 ^h 1 Apogäum.

Juli 7 ^h 9 Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Juli 10.0	1 ^h 19 ^m 40.36		+ 3° 43' 0.7		8.23592		16' 7.7
10.5	1 45 24.02	25 43.66	6 39 22.1	+2 56 21.4	8.23489	-103	16 5.4
11.0	2 11 18.52	25 54.50	9 29 53.0	2 50 30.9	8.23375	114	16 2.9
11.5	2 37 30.34	26 11.82	12 12 19.0	2 42 26.0	8.23249	126	16 0.1
12.0	3 4 4.85	26 34.51	14 44 28.8	2 32 9.8	8.23112	137	15 57.1
12.5	3 31 5.92	27 1.07	17 4 13.8	2 19 45.0	8.22966	146	15 53.9
13.0	3 58 35.67	27 29.75	19 9 31.1	2 5 17.3	8.22811	155	15 50.5
13.5	4 26 33.94	27 58.27	20 58 25.6	1 48 54.5	8.22647	164	15 46.9
14.0	4 54 58.14	28 24.20	22 29 15.1	1 30 49.5	8.22474	173	15 43.1
14.5	5 23 43.26	28 45.12	23 40 34.5	1 11 19.4	8.22293	181	15 39.2
15.0	5 52 41.88	28 58.62	+24 31 20.2	+0 50 45.7	8.22104	-189	15 35.1
15.5	6 21 44.81	29 2.93	25 0 56.0	0 29 35.8	8.21909	195	15 30.9
16.0	6 50 41.74	28 56.93	25 9 14.2	+0 8 18.2	8.21709	200	15 26.6
16.5	7 19 22.20	28 40.46	24 56 36.9	-0 12 37.3	8.21506	203	15 22.3
17.0	7 47 36.44	28 14.24	24 23 53.9	0 32 43.0	8.21301	205	15 18.0
17.5	8 15 16.21	27 39.77	23 32 18.4	0 51 35.5	8.21097	204	15 13.7
18.0	8 42 15.35	26 59.14	22 23 21.2	1 8 57.2	8.20897	200	15 9.5
18.5	9 8 29.98	26 14.63	20 58 46.0	1 24 35.2	8.20703	194	15 5.4
19.0	9 33 58.51	25 28.53	19 20 21.8	1 38 24.2	8.20518	185	15 1.6
19.5	9 58 41.49	24 42.98	17 29 58.7	1 50 23.1	8.20346	172	14 58.0
20.0	10 22 41.23	23 59.74	+15 29 23.9	-2 0 34.8	8.20190	-156	14 54.8
20.5	10 46 1.41	23 20.18	13 20 19.0	2 9 4.9	8.20053	137	14 52.0
21.0	11 8 46.85	22 45.44	11 4 18.3	2 16 0.7	8.19938	115	14 49.6
21.5	11 31 3.13	22 16.28	8 42 48.8	2 21 29.5	8.19847	91	14 47.8
22.0	11 52 56.38	21 53.25	6 17 10.6	2 25 38.2	8.19783	64	14 47.5
22.5	12 14 33.15	21 36.77	3 48 36.9	2 28 33.7	8.19749	34	14 45.8
23.0	12 36 0.18	21 27.03	+ 1 18 16.8	2 30 20.1	8.19746	- 3	14 45.7
23.5	12 57 24.50	21 24.32	- 1 12 44.4	2 31 1.2	8.19776	+ 30	14 46.3
24.0	13 18 53.19	21 28.69	3 43 22.4	2 30 38.0	8.19839	63	14 47.6
24.5	13 40 33.48	21 40.29	6 12 31.9	2 29 9.5	8.19936	97	14 49.6
25.0	14 2 32.61	21 59.13	- 8 39 5.4	-2 26 33.5	8.20067	+131	14 52.3
25.5	14 24 57.84	22 25.23	11 1 49.9	2 22 44.5	8.20230	163	14 55.6
26.0	14 47 56.21	22 58.37	13 19 25.2	2 17 35.3	8.20425	195	14 59.6
26.5	15 11 34.51	23 38.30	15 30 22.8	2 10 57.6	8.20650	225	15 4.3
27.0	15 35 58.87	24 24.36	17 33 3.6	2 2 40.8	8.20901	251	15 9.6
27.5	16 1 14.59	25 15.72	19 25 37.8	1 52 34.2	8.21176	275	15 15.4
28.0	16 27 25.47	26 10.88	21 6 4.7	1 40 26.9	8.21470	294	15 21.6
28.5	16 54 33.46	27 7.99	22 32 15.5	1 26 10.8	8.21779	309	15 28.1
29.0	17 22 37.98	28 4.52	23 41 56.9	1 9 41.4	8.22096	317	15 34.9
29.5	17 51 35.54	28 57.56	24 32 57.7	0 51 0.8	8.22416	320	15 41.8

Juli 16 23^h 38.2 Neumond.Juli 25 0^h 38.9 Erstes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Juli 10	U 6 ^h 21.3	1 33 17	+67.22	133.04	+ 5 17.0	+15.2	1 25.4	+ 5 41	5.2
	O 18 46.0	1 59 59	+67.48	134.09	+ 8 16.4	+14.7	1 36.7	+ 5 2	4.7
11	U 7 10.9	2 26 57	+67.89	135.75	+11 8.2	+13.9	2 24.7	+ 9 10	6.3
	O 19 36.2	2 54 18	+68.42	137.92	+13 50.1	+13.0	2 31.7	+12 3	5.6
12	U 8 2.0	3 22 7	+69.04	140.44	+16 19.5	+11.9	3 21.9	+18 26	6.5
	O 20 28.3	3 50 27	+69.69	143.13	+18 34.3	+10.6	3 26.2	+17 38	6.5
13	U 8 55.2	4 19 20	+70.33	145.77	+20 32.1	+ 9.1			
	O 21 22.5	4 48 43	+70.88	148.09	+22 11.0	+ 7.4			
14	U 9 50.2	5 18 31	+71.28	149.85	+23 29.2	+ 5.6			
	O 22 18.2	5 48 36	+71.50	150.82	+24 25.4	+ 3.7			
15	U 10 46.3	6 18 47	+71.49	150.85	+24 58.9	+ 1.8			
	O 23 14.4	6 48 52	+71.23	149.84	+25 9.3	- 0.1			
16	U 11 42.2	7 18 40	+70.72	147.84	+24 57.2	- 1.9			
17	O 0 9.4	7 47 58	-70.01	145.10	+24 23.3	- 3.7			
	U 12 36.0	8 16 38	-69.12	141.56	+23 29.2	- 5.3			
18	O 1 1.9	8 44 33	-68.11	137.56	+22 16.7	- 6.8			
	U 13 26.9	9 11 37	-67.03	133.33	+20 47.6	- 8.1			
19	O 1 51.1	9 37 50	-65.94	129.08	+19 4.1	- 9.2			
	U 14 14.4	10 3 14	-64.89	125.00	+17 8.2	-10.1			
20	O 2 37.0	10 27 50	-63.91	121.25	+15 1.9	-10.9			
	U 14 58.9	10 51 44	-63.03	117.94	+12 47.1	-11.5			
21	O 3 20.2	11 15 1	-62.29	115.14	+10 25.5	-12.0			
	U 15 40.9	11 37 48	-61.71	112.91	+ 7 58.5	-12.4			
22	O 4 1.3	12 0 13	-61.28	111.29	+ 5 27.7	-12.7	11 33.8	+ 8 38	5.5
	U 16 21.4	12 22 21	-61.03	110.30	+ 2 54.2	-12.9	11 40.6	+ 8 46	4.9
23	O 4 41.4	12 44 22	-60.96	109.96	+ 0 19.3	-12.9	12 15.7	+ 3 49	5.2
	U 17 1.4	13 6 23	-61.07	110.28	- 2 15.9	-12.9	12 33.7	+ 2 21	6.1
24	O 5 21.5	13 28 32	-61.37	111.28	- 4 50.2	-12.8	12 55.9	- 2 53	6.1
	U 17 41.9	13 50 57	-61.87	112.95	- 7 22.5	-12.6	13 18.6	- 4 27	6.1
25	O 6 2.7	14 13 47	-62.53	115.30	- 9 51.5	-12.3	13 50.2	- 7 37	6.4
	U 18 24.1	14 37 9	-63.36	118.33	-12 15.9	-11.8	13 55.3	- 7 43	6.5
26	O 6 46.1	15 1 11	-64.36	122.00	-14 34.2	-11.2	14 32.2	-11 55	6.0
	U 19 8.9	15 26 1	-65.50	126.27	-16 44.6	-10.5	14 43.0	-12 27	6.0
27	O 7 32.6	15 51 46	-66.75	131.04	-18 45.1	- 9.6	15 25.6	-16 18	5.8
	U 19 57.3	16 18 30	-68.06	136.18	-20 33.7	- 8.5	15 33.7	-19 0	5.7
28	O 8 23.0	16 46 17	-69.39	141.51	-22 7.9	- 7.2	16 18.8	-19 49	4.6
	U 20 49.8	17 15 8	-70.68	146.76	-23 25.3	- 5.7	16 26.8	-21 16	4.7
29	O 9 17.6	17 44 59	-71.85	151.61	-24 23.2	- 3.9	17 12.5	-24 11	6.0
	U 21 46.3	18 15 45	-72.82	155.75	-24 59.3	- 2.0	17 16.5	-24 55	3.4

Juli 22 19 Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Juli	29.0	17 ^h 22 ^m 37.98		-23° 41' 56.9		8.22096	
			28 ^m 57.56		-0° 51' 0.8		+320
	29.5	17 51 35.54	29 43.95	24 32 57.7	0 30 18.2	8.22416	316
	30.0	18 21 19.49	30 20.65	25 3 15.9	-0 7 53.5	8.22732	307
	30.5	18 51 40.14	30 45.16	25 11 9.4	+0 15 43.9	8.23039	290
Aug.	31.0	19 22 25.30	30 56.02	24 55 25.5	0 39 56.9	8.23329	267
	31.5	19 53 21.32	30 53.08	24 15 28.6	1 4 2.3	8.23596	238
	1.0	20 24 14.40	30 37.48	23 11 26.3	1 27 16.5	8.23834	205
	1.5	20 54 51.88	30 11.56	21 44 9.8	1 48 58.1	8.24039	166
	2.0	21 25 3.44	29 38.31	19 55 11.7	2 8 32.2	8.24205	124
	2.5	21 54 41.75	29 1.06	17 46 39.5	+2 25 31.9	8.24329	+ 82
	3.0	22 23 42.81	28 22.96	-15 21 7.6	2 39 40.3	8.24411	+ 38
	3.5	22 52 5.77	27 46.67	12 41 27.3	2 50 46.9	8.24449	- 3
	4.0	23 19 52.44	27 14.43	9 50 40.4	2 58 49.9	8.24446	44
	4.5	23 47 6.87	26 47.79	6 51 50.5	3 3 51.7	8.24402	80
	5.0	0 13 54.66	26 27.84	3 47 58.8	3 5 58.8	8.24322	114
	5.5	0 40 22.50	26 15.08	- 0 42 0.0	3 5 19.5	8.24208	143
	6.0	1 6 37.58	26 9.70	+ 2 23 19.5	3 2 2.7	8.24065	167
	6.5	1 32 47.28	26 11.49	5 25 22.2	2 56 17.6	8.23898	186
	7.0	1 58 58.77	26 19.88	8 21 39.8	2 48 12.8	8.23712	202
	7.5	2 25 18.65	26 34.07	11 9 52.6	+2 37 57.0	8.23510	-212
	8.0	2 51 52.72	26 52.79	+13 47 49.6	2 25 37.7	8.23298	219
	8.5	3 18 45.51	27 14.51	16 13 27.3	2 11 23.4	8.23079	223
	9.0	3 46 0.02	27 37.43	18 24 50.7	1 55 24.2	8.22856	224
	9.5	4 13 37.45	27 59.41	20 20 14.9	1 37 52.0	8.22632	223
10.0	4 41 36.86	28 18.29	21 58 6.9	1 19 0.9	8.22409	220	
10.5	5 9 55.15	28 31.94	23 17 7.8	0 59 9.4	8.22189	217	
11.0	5 38 27.09	28 38.49	24 16 17.2	0 38 38.7	8.21972	212	
11.5	6 7 5.58	28 36.61	24 54 55.9	+0 17 52.0	8.21760	206	
12.0	6 35 42.19	28 25.71	25 12 47.9	-0 2 45.8	8.21554	201	
12.5	7 4 7.90	28 5.90	25 10 2.1	-0 22 49.7	8.21353	-194	
13.0	7 32 13.80	27 38.01	+24 47 12.4	0 41 57.9	8.21159	187	
13.5	7 59 51.81	27 3.57	24 5 14.5	0 59 51.9	8.20972	179	
14.0	8 26 55.38	26 24.39	23 5 22.6	1 16 16.8	8.20793	172	
14.5	8 53 19.77	25 42.47	21 49 5.8	1 31 2.9	8.20621	163	
15.0	9 19 2.24	24 59.73	20 18 2.9	1 44 6.1	8.20458	153	
15.5	9 44 1.97	24 17.96	18 33 56.8	1 55 24.8	8.20305	142	
16.0	10 8 19.93	23 38.61	16 38 32.0	2 5 0.7	8.20163	129	
16.5	10 31 58.54	23 2.87	14 33 31.3	2 12 58.3	8.20034	114	
17.0	10 55 1.41	22 31.65	12 20 33.0	2 19 22.7	8.19920	98	
17.5	11 17 33.06		10 1 10.3		8.19822		

Aug. 1 10^h 7.6 Vollmond. Aug. 8 1^h 3.5 Letzt. Viert. Aug. 15 12^h 48.3 Neumond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Dekl.	Gr.
Juli 29 O	9 ^h 17.6 ^m	17 ^h 44 ^m 59 ^s	-71.85	151.61	-24° 23.2'	-3.9	17 ^h 12.5 ^m	-24° 11'	6.0
	U 21 46.3	18 15 45	-72.82	155.75	-24 59.3	-2.0	17 16.5	-24 55	3.4
30 O	10 15.8	18 47 15	-73.54	158.88	-25 11.5	0.0	18 6.2	-23 43	5.3
	U 22 45.7	19 19 14	-73.97	160.74	-24 58.2	+2.2	18 22.4	-25 28	2.9
31 O	11 15.9	19 51 27	-74.07	161.24	-24 18.6	+4.4	19 20.0	-24 8	5.9
	U 23 46.0	20 23 38	-73.85	160.41	-23 12.9	+6.6	19 30.5	-24 55	5.8
Aug. 1 O	12 15.8	20 55 32	+73.36	158.32	-21 42.0	+8.6	20 24.2	-22 42	6.5
	—	—	—	—	—	—	20 34.8	-24 6	6.5
2 U	0 45.2	21 26 56	+72.67	155.44	-19 47.7	+10.4	21 24.9	-19 33	6.5
	O 13 13.9	21 57 42	+71.86	152.04	-17 32.5	+12.0	21 29.8	-20 29	5.9
3 U	1 41.9	22 27 46	+70.99	148.45	-14 59.3	+13.4	22 21.7	-17 12	5.6
	O 14 9.2	22 57 7	+70.15	144.98	-12 11.5	+14.5	22 42.9	-14 32	5.6
4 U	2 35.9	23 25 48	+69.39	141.84	-9 12.5	+15.3	23 14.3	-10 7	5.2
	O 15 2.0	23 53 55	+68.75	139.22	-6 5.7	+15.8	23 30.9	-7 58	6.5
5 U	3 27.6	0 21 34	+68.26	137.23	-2 54.4	+16.0	0 19.9	-2 43	6.0
	O 15 52.8	0 48 53	+67.95	135.94	+0 18.1	+16.0	0 30.9	-1 0	6.0
6 U	4 17.9	1 16 0	+67.82	135.35	+3 29.0	+15.8	1 13.1	+3 8	5.3
	O 16 43.0	1 43 4	+67.86	135.45	+6 35.5	+15.3	1 25.4	+5 41	5.2
7 U	5 8.1	2 10 13	+68.07	136.20	+9 34.8	+14.6	2 8.2	+8 25	4.5
	O 17 33.4	2 37 35	+68.42	137.51	+12 24.4	+13.7	2 20.0	+10 12	5.5
8 U	5 59.0	3 5 15	+68.87	139.25	+15 2.1	+12.6	3 1.4	+12 50	5.9
	O 18 25.0	3 33 17	+69.37	141.28	+17 25.6	+11.3	3 21.9	+18 26	6.5
9 U	6 51.4	4 1 44	+69.89	143.42	+19 32.9	+9.9	3 59.5	+17 16	6.5
	O 19 18.3	4 30 37	+70.39	145.46	+21 22.0	+8.3	4 5.4	+18 11	6.5
10 U	7 45.5	4 59 53	+70.80	147.17	+22 51.4	+6.6	5 2.6	+24 9	5.5
	O 20 13.0	5 29 26	+71.07	148.34	+23 59.8	+4.8	5 13.8	+22 0	5.2
11 U	8 40.7	5 59 10	+71.15	148.78	+24 46.3	+2.9			
	O 21 8.4	6 28 54	+71.02	148.38	+25 10.4	+1.1			
12 U	9 35.9	6 58 28	+70.67	147.10	+25 12.2	-0.8			
	O 22 3.1	7 27 42	+70.11	144.97	+24 52.2	-2.6			
13 U	10 29.8	7 56 26	+69.37	142.12	+24 11.5	-4.2			
	O 22 55.8	8 24 32	+68.48	138.71	+23 11.4	-5.8			
14 U	11 21.1	8 51 55	+67.49	134.93	+21 53.6	-7.2			
	O 23 45.7	9 18 32	+66.45	130.99	+20 20.0	-8.4			
15 U	12 9.5	9 44 21	+65.41	127.21	+18 32.5	-9.5			
	—	—	—	—	—	—			
16 O	0 32.5	10 9 25	-64.42	123.50	+16 33.1	-10.4			
	U 12 54.8	10 33 45	-63.50	120.06	+14 23.7	-11.2			
17 O	1 16.5	10 57 26	-62.68	117.02	+12 6.0	-11.8			
	U 13 37.6	11 20 34	-61.99	114.45	+9 41.9	-12.2			

Aug. 3 17^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Aug. 17.0	10 ^h 55 ^m 1.41	22 ^m 31.65	+12° 20' 33.0	-2° 19' 22.7	8.19920	-98	14 49.2
17.5	11 17 33.06	22 5.64	10 1 10.3	2 24 19.8	8.19822	79	14 47.2
18.0	11 39 38.70	21 45.29	7 36 50.5	2 27 55.2	8.19743	59	14 45.6
18.5	12 1 23.99	21 30.98	5 8 55.3	2 30 14.3	8.19684	37	14 44.4
19.0	12 22 54.97	21 22.96	2 38 41.0	2 31 20.7	8.19647	-12	14 43.7
19.5	12 44 17.93	21 21.38	+ 0 7 20.3	2 31 18.3	8.19635	+15	14 43.4
20.0	13 5 39.31	21 26.40	- 2 23 58.0	2 30 7.8	8.19650	43	14 43.7
20.5	13 27 5.71	21 38.10	4 54 5.8	2 27 50.1	8.19693	72	14 44.6
21.0	13 48 43.81	21 56.52	7 21 55.9	2 24 22.4	8.19765	103	14 46.1
21.5	14 10 40.33	22 21.62	9 46 18.3	-2 19 41.5	8.19868	+135	14 48.2
22.0	14 33 1.95	22 53.29	-12 5 59.8	2 13 42.6	8.20003	167	14 50.9
22.5	14 55 55.24	23 31.21	14 19 42.4	2 6 18.6	8.20170	198	14 54.4
23.0	15 19 26.45	24 14.82	16 26 1.0	1 57 21.2	8.20368	228	14 58.5
23.5	15 43 41.27	25 3.29	18 23 22.2	1 46 42.0	8.20596	258	15 3.2
24.0	16 8 44.56	25 55.37	20 10 4.2	1 34 12.4	8.20854	285	15 8.6
24.5	16 34 39.93	26 49.37	21 44 16.6	1 19 45.3	8.21139	308	15 14.6
25.0	17 1 29.30	27 43.12	23 4 1.9	1 3 16.7	8.21447	328	15 21.1
25.5	17 29 12.42	28 34.06	24 7 18.6	0 44 47.1	8.21775	343	15 28.1
26.0	17 57 46.48	29 19.41	24 52 5.7	0 24 25.1	8.22118	353	15 35.4
26.5	18 27 5.89	29 56.48	25 16 30.8	-0 2 25.5	8.22471	+355	15 43.0
27.0	18 57 2.37	30 23.09	-25 18 56.3	+0 20 47.6	8.22826	352	15 50.8
27.5	19 27 25.46	30 37.74	24 58 8.7	0 44 41.9	8.23178	340	15 58.5
28.0	19 58 3.20	30 40.11	24 13 26.8	1 8 39.5	8.23518	320	16 6.0
28.5	20 28 43.31	30 31.04	23 4 47.3	1 31 59.7	8.23838	294	16 13.2
29.0	20 59 14.35	30 12.40	21 32 47.6	1 54 1.4	8.24132	259	16 19.8
29.5	21 29 26.75	29 46.73	19 38 46.2	2 14 8.1	8.24391	218	16 25.7
30.0	21 59 13.48	29 16.96	17 24 38.1	2 31 47.4	8.24609	171	16 30.6
30.5	22 28 30.44	28 45.90	14 52 50.7	2 46 35.6	8.24780	119	16 34.5
31.0	22 57 16.34	28 16.19	12 6 15.1	2 58 16.1	8.24899	64	16 37.3
31.5	23 25 32.53	27 49.80	9 7 59.0	+3 6 38.7	8.24963	+9	16 38.8
Sept. 1.0	23 53 22.33	27 28.35	- 6 1 20.3	3 11 40.4	8.24972	-44	16 39.0
1.5	0 20 50.68	27 12.84	- 2 49 39.9	3 13 23.4	8.24928	96	16 37.9
2.0	0 48 3.52	27 3.76	+ 0 23 43.5	3 11 54.3	8.24832	144	16 35.7
2.5	1 15 7.28	27 1.25	3 35 37.8	3 7 22.3	8.24688	186	16 32.4
3.0	1 42 8.53	27 4.90	6 43 0.1	2 59 58.9	8.24502	222	16 28.2
3.5	2 9 13.43	27 14.04	9 42 59.0	2 49 57.2	8.24280	252	16 23.2
4.0	2 36 27.47	27 27.59	12 32 56.2	2 37 31.1	8.24028	273	16 17.5
4.5	3 3 55.06	27 44.12	15 10 27.3	2 22 55.0	8.23755	289	16 11.3
5.0	3 31 39.18	28 1.98	17 33 22.3	2 6 25.7	8.23466	298	16 4.9
5.5	3 59 41.16		19 39 48.0		8.23168		15 58.3

Aug. 23 16^h 48.9 Erstes Viertel.Aug. 30 18^h 1.4 Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Aug. 17 O	1 ^h 16.5	10 ^h 57 ^m 26 ^s	-62.68	117.02	+12° 6.0'	-11.8			
U	13 37.6	11 20 34	-61.99	114.45	+ 9 41.9	-12.2			
18 O	1 58.2	11 43 14	-61.45	112.40	+ 7 12.8	-12.6			
U	14 18.5	12 5 33	-61.07	110.91	+ 4 40.2	-12.8			
19 O	2 38.6	12 27 38	-60.85	110.00	+ 2 5.4	-13.0			
U	14 58.5	12 49 35	-60.80	109.69	- 0 30.2	-13.0			
20 O	3 18.4	13 11 33	-60.91	109.99	- 3 5.5	-12.9			
U	15 38.5	13 33 38	-61.21	110.91	- 5 39.2	-12.7			
21 O	3 58.8	13 55 58	-61.69	112.46	- 8 10.3	-12.4	13 30.8	- 4 56	5.8
U	16 19.5	14 18 41	-62.34	114.64	-10 37.3	-12.0	13 39.2	- 5 2	6.4
22 O	4 40.7	14 41 53	-63.14	117.44	-12 58.9	-11.5	14 12.6	- 8 36	6.5
U	17 2.5	15 5 43	-64.10	120.84	-15 13.8	-10.9	14 18.5	-11 18	6.3
23 O	5 25.0	15 30 17	-65.19	124.81	-17 20.2	-10.1	15 1.6	-15 54	5.4
U	17 48.4	15 55 42	-66.38	129.25	-19 16.4	- 9.2	15 6.8	-15 49	6.5
24 O	6 12.7	16 22 3	-67.64	134.06	-21 0.5	- 8.1	15 49.8	-19 7	6.3
U	18 38.0	16 49 23	-68.93	139.08	-22 30.3	- 6.8	16 0.2	-19 33	2.7
25 O	7 4.3	17 17 43	-70.19	144.08	-23 43.4	- 5.3	16 51.3	-23 0	5.6
U	19 31.6	17 47 2	-71.35	148.81	-24 37.7	- 3.7	17 0.8	-21 26	6.6
26 O	7 59.7	18 17 14	-72.35	152.99	-25 10.8	- 1.8	17 54.3	-23 49	4.6
U	20 28.6	18 48 12	-73.12	156.33	-25 20.6	+ 0.2	17 59.6	-24 24	6.5
27 O	8 58.1	19 19 43	-73.64	158.61	-25 5.6	+ 2.3	18 40.0	-27 5	3.3
U	21 27.9	19 51 34	-73.87	159.71	-24 24.9	+ 4.5	18 49.7	-26 25	2.1
28 O	9 57.8	20 23 31	-73.81	159.60	-23 18.1	+ 6.6	19 48.9	-24 10	6.4
U	22 27.6	20 55 20	-73.49	158.41	-21 45.9	+ 8.7	19 54.2	-22 28	6.5
29 O	10 57.0	21 26 49	-72.97	156.37	-19 49.6	+10.6	20 40.9	-21 51	5.8
U	23 25.9	21 57 50	-72.31	153.75	-17 31.4	+12.3	20 59.3	-20 13	5.0
30 O	11 54.3	22 28 17	-71.60	150.86	-14 54.1	+13.8	21 38.2	-20 2	6.2
—	—	—	—	—	—	—	21 57.2	-18 20	6.4
31 U	0 22.1	22 58 9	+70.89	147.86	-12 0.9	+15.0	22 54.8	-13 34	6.5
O	12 49.4	23 27 28	+70.23	145.24	- 8 55.4	+15.9	23 10.0	-11 11	6.3
Sept. 1 U	1 16.2	23 56 18	+69.69	143.05	- 5 41.2	+16.4	0 0.7	- 6 13	4.6
O	13 42.6	0 24 44	+69.30	141.40	- 2 22.1	+16.7	0 5.7	- 5 45	5.9
2 U	2 8.7	0 52 54	+69.06	140.36	+ 0 58.2	+16.6	0 59.2	+ 0 53	6.0
O	14 34.7	1 20 56	+68.99	139.95	+ 4 16.4	+16.3	1 5.9	+ 1 58	6.3
3 U	3 0.7	1 48 56	+69.07	140.16	+ 7 29.0	+15.7	1 36.7	+ 5 2	4.7
O	15 26.8	2 17 1	+69.28	140.92	+10 32.9	+14.9	2 6.6	+ 8 9	5.7
4 U	3 53.0	2 45 19	+69.61	142.12	+13 25.4	+13.8	2 46.5	+14 42	5.5
O	16 19.5	3 13 53	+70.03	143.64	+16 3.8	+12.5	2 59.6	+15 30	6.5
5 U	4 46.3	3 42 46	+70.47	145.31	+18 25.7	+11.1	3 38.5	+19 23	6.4
O	17 13.5	4 11 59	+70.89	146.92	+20 29.3	+ 9.5	3 48.0	+17 3	6.0

Aug. 19 12 Apogäum.

Aug. 31 20 Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Sept. 5.0	3 ^h 31 ^m 39.18	28 ^m 1.98	+17° 33' 22.3	+2° 6' 25.7	8.23466	-298	16' 4.9
5.5	3 59 41.16	28 19.10	19 39 48.0	1 48 19.7	8.23168	302	15 58.3
6.0	4 28 0.26	28 33.53	21 28 7.7	1 28 56.0	8.22866	301	15 51.7
6.5	4 56 33.79	28 43.32	22 57 3.7	1 8 35.0	8.22565	294	15 45.1
7.0	5 25 17.11	28 46.68	24 5 38.7	0 47 39.2	8.22271	286	15 38.7
7.5	5 54 3.79	28 42.42	24 53 17.9	0 26 32.1	8.21985	273	15 32.6
8.0	6 22 46.21	28 29.99	25 19 50.0	+0 5 36.8	8.21712	259	15 26.7
8.5	6 51 16.20	28 9.42	25 25 26.8	-0 14 43.7	8.21453	244	15 21.2
9.0	7 19 25.62	27 41.51	25 10 43.1	0 34 10.4	8.21209	227	15 16.0
9.5	7 47 7.13	27 7.57	24 36 32.7	-0 52 26.1	8.20982	-209	15 11.3
10.0	8 14 14.70	26 29.21	+23 44 6.6	1 9 18.2	8.20773	193	15 6.9
10.5	8 40 43.91	25 48.23	22 34 48.4	1 24 38.2	8.20580	176	15 2.9
11.0	9 6 32.14	25 6.39	21 10 10.2	1 38 20.5	8.20404	159	14 59.2
11.5	9 31 38.53	24 25.36	19 31 49.7	1 50 24.5	8.20245	143	14 55.9
12.0	9 56 3.89	23 46.43	17 41 25.2	2 0 50.1	8.20102	126	14 53.0
12.5	10 19 50.32	23 10.78	15 40 35.1	2 9 40.1	8.19976	110	14 50.4
13.0	10 43 1.10	22 39.20	13 30 55.0	2 16 58.0	8.19866	94	14 48.1
13.5	11 5 40.30	22 12.41	11 13 57.0	2 22 48.1	8.19772	78	14 46.2
14.0	11 27 52.71	21 50.83	8 51 8.9	2 27 13.6	8.19694	61	14 44.6
14.5	11 49 43.54	21 34.75	6 23 55.3	-2 30 19.7	8.19633	-44	14 43.4
15.0	12 11 18.29	21 24.43	+ 3 53 35.6	2 32 8.2	8.19589	26	14 42.5
15.5	12 32 42.72	21 20.02	+ 1 21 27.4	2 32 42.6	8.19563	-7	14 42.0
16.0	12 54 2.74	21 21.56	- 1 11 15.2	2 32 3.9	8.19556	+13	14 41.8
16.5	13 15 24.30	21 29.15	3 43 19.1	2 30 13.1	8.19569	34	14 42.1
17.0	13 36 53.45	21 42.80	6 13 32.2	2 27 8.8	8.19603	57	14 42.8
17.5	13 58 36.25	22 2.43	8 40 41.0	2 22 50.2	8.19660	80	14 43.9
18.0	14 20 38.68	22 27.92	11 3 31.2	2 17 14.5	8.19740	106	14 45.6
18.5	14 43 6.60	22 59.02	13 20 45.7	2 10 16.8	8.19846	132	14 47.7
19.0	15 6 5.62	23 35.31	15 31 2.5	2 1 53.4	8.19978	158	14 50.4
19.5	15 29 40.93	24 16.17	17 32 55.9	-1 51 58.4	8.20136	+186	14 53.7
20.0	15 53 57.10	25 0.68	-19 24 54.3	1 40 25.9	8.20322	213	14 57.5
20.5	16 18 57.78	25 47.60	21 5 20.2	1 27 11.7	8.20535	241	15 1.9
21.0	16 44 45.38	26 35.35	22 32 31.9	1 12 12.4	8.20776	266	15 6.9
21.5	17 11 20.73	27 22.07	23 44 44.3	0 55 27.9	8.21042	291	15 12.5
22.0	17 38 42.80	28 5.55	24 40 12.2	0 37 0.8	8.21333	314	15 18.7
22.5	18 6 48.35	28 43.73	25 17 13.0	-0 17 0.8	8.21647	333	15 25.3
23.0	18 35 32.08	29 14.51	25 34 13.8	+0 4 18.3	8.21980	347	15 32.4
23.5	19 4 46.59	29 36.45	25 29 55.5	0 26 36.1	8.22327	356	15 39.9
24.0	19 34 23.04	29 48.67	25 3 19.4	0 49 26.1	8.22683	361	15 47.7
24.5	20 4 11.71		24 13 53.3		8.23044		15 55.6

Sept. 6 8^h 38.0 Letzt. Viert.Sept. 14 4^h 2.3 Neumond.Sept. 22 7^h 25.1 Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. Sterne		
							AR.	Dekl.	Gr.
Sept. 5 U	4 46.3	3 42 46	+70.47	145.31	+18° 25.7	+11.1	3 38.5	+19 23	6.4
	O 17 13.5	4 11 59	+70.89	146.92	+20 29.3	+ 9.5	3 48.0	+17 3	6.0
6 U	5 41.0	4 41 30	+71.24	148.29	+22 12.7	+ 7.7	4 36.8	+22 47	4.3
	O 18 8.7	5 11 15	+71.47	149.20	+23 34.8	+ 5.9	4 48.1	+23 20	6.5
7 U	6 36.5	5 41 8	+71.53	149.48	+24 34.5	+ 4.0	5 43.4	+24 32	5.1
	O 19 4.3	6 11 0	+71.40	149.01	+25 11.5	+ 2.1	5 51.4	+24 14	6.0
8 U	7 32.0	6 40 42	+71.06	147.74	+25 25.8	+ 0.2	6 38.3	+25 13	3.2
	O 19 59.3	7 10 4	+70.53	145.70	+25 17.9	- 1.6	6 46.5	+23 43	6.5
9 U	8 26.1	7 38 57	+69.81	142.96	+24 48.7	- 3.3	7 39.0	+24 37	3.7
	O 20 52.3	8 7 14	+68.94	139.67	+23 59.5	- 4.9	7 43.1	+23 22	6.5
10 U	9 17.9	8 34 50	+67.96	136.02	+22 51.8	- 6.4			
	O 21 42.7	9 1 40	+66.93	132.19	+21 27.4	- 7.7			
11 U	10 6.7	9 27 44	+65.88	128.34	+19 48.1	- 8.8			
	O 22 30.0	9 53 3	+64.87	124.62	+17 55.8	- 9.8			
12 U	10 52.6	10 17 38	+63.92	121.15	+15 52.3	-10.7			
	O 23 14.5	10 41 34	+63.05	118.05	+13 39.3	-11.4			
13 U	11 35.8	11 4 55	+62.29	115.37	+11 18.6	-12.0			
	O 23 56.7	11 27 47	+61.67	113.24	+ 8 51.8	-12.5			
14 U	12 17.1	11 50 14	-61.19	111.54	+ 6 20.4	-12.8			
—	—	—	—	—	—	—			
15 O	0 37.2	12 12 25	-60.87	110.34	+ 3 45.7	-13.0			
	U 12 57.2	12 34 24	-60.70	109.69	+ 1 9.3	-13.1			
16 O	1 17.1	12 56 20	-60.69	109.60	- 1 27.6	-13.1			
	U 13 37.0	13 18 18	-60.86	110.07	- 4 3.7	-12.9			
17 O	1 57.1	13 40 24	-61.19	111.10	- 6 37.7	-12.7			
	U 14 17.5	14 2 47	-61.68	112.70	- 9 8.3	-12.4			
18 O	2 38.2	14 25 32	-62.32	114.86	-11 34.2	-11.9			
	U 14 59.4	14 48 47	-63.11	117.56	-13 53.9	-11.3			
19 O	3 21.2	15 12 37	-64.03	120.76	-16 6.0	-10.6	14 44.3	-13 46	5.4
	U 15 43.7	15 37 9	-65.06	124.42	-18 8.9	- 9.8	14 49.4	-11 32	5.9
20 O	4 7.0	16 2 27	-66.18	128.46	-20 0.7	- 8.8	15 36.7	-19 23	5.0
	U 16 31.1	16 28 35	-67.34	132.77	-21 39.8	- 7.7	15 44.7	-17 37	6.5
21 O	4 56.1	16 55 36	-68.51	137.19	-23 4.1	- 6.4	16 26.8	-21 16	4.7
	U 17 21.9	17 23 29	-69.64	141.56	-24 11.7	- 4.9	16 35.2	-20 14	6.5
22 O	5 48.6	17 52 13	-70.68	145.65	-25 0.5	- 3.2	17 20.8	-24 6	4.3
	U 18 16.1	18 21 44	-71.57	149.23	-25 28.7	- 1.4	17 25.9	-23 54	4.9
23 O	6 44.2	18 51 54	-72.27	152.10	-25 34.5	+ 0.5	18 22.4	-25 28	2.9
	U 19 12.8	19 22 32	-72.74	154.10	-25 16.7	+ 2.5	18 28.4	-24 6	5.9
24 O	7 41.7	19 53 29	-72.97	155.16	-24 34.3	+ 4.6	19 20.0	-24 8	5.9
	U 20 10.7	20 24 33	-72.96	155.27	-23 27.1	+ 6.6	19 30.5	-24 55	5.8

Sept. 15 22^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.	
Sept.	24.0	19 ^h 34 ^m 23.04	29 ^m 48.67	-25° 3' 19.4	+0° 49' 26.1	8.22683	+361	15 47.7
	24.5	20 4 11.71	29 51.21	24 13 53.3	1 12 18.8	8.23044	358	15 55.6
	25.0	20 34 2.92	29 44.90	23 1 34.5	1 34 41.0	8.23402	347	16 3.5
	25.5	21 3 47.82	29 31.44	21 26 53.5	1 56 0.3	8.23749	328	16 11.2
	26.0	21 33 19.26	29 12.94	19 30 53.2	2 15 44.5	8.24077	301	16 18.6
	26.5	22 2 32.20	28 51.75	17 15 8.7	2 33 24.8	8.24378	267	16 25.4
	27.0	22 31 23.95	28 30.19	14 41 43.9	2 48 35.4	8.24645	223	16 31.4
	27.5	22 59 54.14	28 10.43	11 53 8.5	3 0 55.3	8.24868	174	16 36.6
	28.0	23 28 4.57	27 54.13	8 52 13.2	3 10 7.8	8.25042	119	16 40.6
	28.5	23 55 58.70	27 42.66	5 42 5.4	+3 16 1.1	8.25161	+ 59	16 43.3
	29.0	0 23 41.36	27 36.79	- 2 26 4.3	3 18 28.3	8.25220	- 1	16 44.7
	29.5	0 51 18.15	27 36.93	+ 0 52 24.0	3 17 26.7	8.25219	61	16 44.6
30.0	1 18 55.08	27 43.00	4 9 50.7	3 12 59.7	8.25158	119	16 43.2	
Okt.	30.5	1 46 38.08	27 54.41	7 22 50.4	3 5 13.5	8.25039	174	16 40.5
	1.0	2 14 32.49	28 10.25	10 28 3.9	2 54 19.9	8.24865	222	16 36.5
	1.5	2 42 42.74	28 28.99	13 22 23.8	2 40 34.2	8.24643	265	16 31.4
	2.0	3 11 11.73	28 48.93	16 2 58.0	2 24 15.0	8.24378	298	16 25.4
	2.5	3 40 0.66	29 7.90	18 27 13.0	2 5 45.4	8.24080	323	16 18.6
	3.0	4 9 8.56	29 23.63	20 32 58.4	1 45 31.1	8.23757	340	16 11.4
	3.5	4 38 32.19	29 33.93	22 18 29.5	+1 24 0.0	8.23417	-351	16 3.8
	4.0	5 8 6.12	29 36.88	+23 42 29.5	1 1 42.0	8.23066	353	15 56.0
	4.5	5 37 43.00	29 31.18	24 44 11.5	0 39 8.1	8.22713	348	15 48.3
	5.0	6 7 14.18	29 16.18	25 23 19.6	+0 16 47.3	8.22365	339	15 40.7
	5.5	6 36 30.36	28 52.16	25 40 6.9	-0 4 53.7	8.22026	325	15 33.4
	6.0	7 5 22.52	28 20.02	25 35 13.2	0 25 32.1	8.21701	306	15 26.5
6.5	7 33 42.54	27 41.37	25 9 41.1	0 44 50.2	8.21395	286	15 20.0	
7.0	8 1 23.91	26 58.21	24 24 50.9	1 2 35.7	8.21109	263	15 13.9	
7.5	8 28 22.12	26 12.53	23 22 15.2	1 18 41.6	8.20846	237	15 8.4	
8.0	8 54 34.65	25 26.33	22 3 33.6	1 33 5.0	8.20609	213	15 3.5	
8.5	9 20 0.98	24 41.31	20 30 28.6	-1 45 46.2	8.20396	-188	14 59.1	
9.0	9 44 42.29	23 58.92	+18 44 42.4	1 56 48.7	8.20208	162	14 55.2	
9.5	10 8 41.21	23 20.33	16 47 53.7	2 6 16.1	8.20046	137	14 51.8	
10.0	10 32 1.54	22 46.25	14 41 37.6	2 14 13.2	8.19909	114	14 49.0	
10.5	10 54 47.79	22 17.35	12 27 24.4	2 20 45.1	8.19795	91	14 46.7	
11.0	11 17 5.14	21 53.98	10 6 39.3	2 25 55.3	8.19704	69	14 44.8	
11.5	11 38 59.12	21 36.36	7 40 44.0	2 29 47.5	8.19635	49	14 43.4	
12.0	12 0 35.48	21 24.62	5 10 56.5	2 32 23.7	8.19586	28	14 42.4	
12.5	12 22 0.10	21 18.81	2 38 32.8	2 33 45.8	8.19558	- 10	14 41.9	
13.0	12 43 18.91	21 18.99	+ 0 4 47.0	2 33 54.0	8.19548	+ 9	14 41.7	
13.5	13 4 37.90		- 2 29 7.0		8.19557		14 41.8	

Sept. 29 1^h 59.0 Vollmond. Okt. 5 19 37.8 Letzt. Viert. Okt. 13 21 7.0 Neumond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne			
							AR.	Dekl.	Gr.	
Sept. 24	O	7 ^h 41.7 ^m	19 ^h 53 ^m 29 ^s	-72.97	155.16	-24° 34.3'	+ 4.6	19 ^h 20.0 ^m	-24° 8'	5.9
	U	20 10.7	20 24 33	-72.96	155.27	-23 27.1	+ 6.6	19 30.5	-24 55	5.8
25	O	8 39.6	20 55 32	-72.75	154.54	-21 55.5	+ 8.6	20 24.2	-22 42	6.5
	U	21 8.3	21 26 18	-72.37	153.15	-20 0.4	+10.5	20 34.8	-24 6	6.5
26	O	9 36.7	21 56 45	-71.89	151.31	-17 43.6	+12.2	21 24.9	-19 33	6.5
	U	22 4.7	22 26 48	-71.36	149.28	-15 7.4	+13.7	21 29.8	-20 29	5.9
27	O	10 32.3	22 56 27	-70.84	147.29	-12 14.4	+15.0	22 21.7	-17 12	5.6
	U	22 59.5	23 25 43	-70.39	145.55	- 9 7.8	+16.0	22 42.9	-14 32	5.6
28	O	11 26.5	23 54 41	-70.04	144.20	- 5 51.1	+16.7	23 14.3	-10 7	5.2
	U	23 53.2	0 23 26	-69.83	143.32	- 2 28.0	+17.1	23 30.9	- 7 58	6.5
29	O	12 19.8	0 52 4	+69.77	143.08	+ 0 57.8	+17.2	0 19.9	- 2 43	6.0
	U	0 46.4	1 20 42	+69.86	143.41	+ 4 22.4	+16.9	0 30.9	- 1 0	6.0
30	O	13 13.1	1 49 27	+70.10	144.30	+ 7 42.0	+16.3	1 13.1	+ 3 8	5.3
	U	1 40.0	2 18 26	+70.46	145.65	+10 53.0	+15.4	1 25.5	+ 5 41	5.2
Okt. 1	O	14 7.2	2 47 43	+70.91	147.34	+13 51.9	+14.3	2 20.0	+10 12	5.5
	U	2 34.8	3 17 22	+71.41	149.20	+16 35.5	+12.9	2 24.8	+ 9 10	6.3
2	O	15 2.8	3 47 23	+71.90	151.03	+19 1.0	+11.3	3 21.9	+18 26	6.5
	U	3 31.1	4 17 44	+72.32	152.59	+21 6.1	+ 9.5	3 26.2	+17 38	6.5
3	O	15 59.7	4 48 22	+72.61	153.65	+22 48.9	+ 7.6	4 23.3	+18 59	3.7
	U	4 28.4	5 19 9	+72.73	154.03	+24 8.1	+ 5.6	4 30.4	+19 42	6.5
4	O	16 57.1	5 49 55	+72.64	153.56	+25 3.1	+ 3.6	5 22.2	+21 52	4.8
	U	5 25.7	6 20 31	+72.32	152.19	+25 33.7	+ 1.6	5 29.9	+23 59	5.4
5	O	17 53.9	6 50 45	+71.77	149.93	+25 40.4	- 0.4	6 19.2	+25 6	6.5
	U	6 21.6	7 20 28	+71.01	146.90	+25 24.2	- 2.3	6 38.4	+25 13	3.2
6	O	18 48.6	7 49 31	+70.08	143.25	+24 46.5	- 4.0	7 18.0	+23 7	6.1
	U	7 14.8	8 17 47	+69.03	139.19	+23 49.1	- 5.6	7 27.4	+23 5	6.0
7	O	19 40.2	8 45 12	+67.91	134.93	+22 33.7	- 7.0	8 15.1	+24 19	5.7
	U	8 4.7	9 11 47	+66.76	130.66	+21 2.4	- 8.2	8 21.3	+24 50	6.0
8	O	20 28.4	9 37 32	+65.63	126.55	+19 17.0	- 9.3	9 4.1	+22 25	5.2
	U	8 51.3	10 2 28	+64.57	122.73	+17 19.5	-10.2	9 8.4	+21 40	6.5
9	O	21 13.5	10 26 41	+63.60	119.30	+15 11.6	-11.0	9 22.2	+21 52	4.8
	U	9 35.0	10 50 15	+62.74	116.33	+12 55.0	-11.7	9 25.5	+21 54	5.2
10	O	21 56.0	11 13 17	+62.01	113.87	+10 31.3	-12.2	10 12.5	+21 54	5.2
	U	10 16.6	11 35 52	+61.43	111.94	+ 8 2.0	-12.6	10 15.7	+21 54	5.2
11	O	22 36.8	11 58 6	+61.02	110.55	+ 5 28.4	-12.9	10 18.9	+21 54	5.2
	U	10 56.8	12 20 8	+60.76	109.71	+ 2 52.0	-13.1	10 22.1	+21 54	5.2
12	O	23 16.7	12 42 2	+60.66	109.43	+ 0 14.1	-13.2	10 25.3	+21 54	5.2
	U	11 36.6	13 3 56	+60.73	109.71	- 2 24.1	-13.2	10 28.5	+21 54	5.2
13	O	23 56.6	13 25 57	-60.97	110.48	- 5 1.2	-13.0	10 31.7	+21 54	5.2

Sept. 29 ^h Perigäum.

Okt. 13 ^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Okt. 13.0	12 ^h 43 ^m 18.91	21 18.99	+ 0° 4' 47.0	- 2 33 54.0	8.19548	+ 9	14 41.7
13.5	13 4 37.90	21 25.09	- 2 29 7.0	2 32 47.9	8.19557	25	14 41.8
14.0	13 26 2.99	21 37.00	5 1 54.9	2 30 26.0	8.19582	43	14 42.3
14.5	13 47 39.99	21 54.62	7 32 20.9	2 26 45.9	8.19625	60	14 43.2
15.0	14 9 34.61	22 17.75	9 59 6.8	2 21 44.7	8.19685	77	14 44.4
15.5	14 31 52.36	22 46.04	12 20 51.5	2 15 19.1	8.19762	95	14 46.0
16.0	14 54 38.40	23 19.00	14 36 10.6	2 7 24.7	8.19857	113	14 48.0
16.5	15 17 57.40	23 56.02	16 43 35.3	1 57 58.0	8.19970	131	14 50.3
17.0	15 41 53.42	24 36.15	18 41 33.3	1 46 55.7	8.20101	150	14 53.0
17.5	16 6 29.57	25 18.28	20 28 29.0	- 1 34 15.0	8.20251	+170	14 56.1
18.0	16 31 47.85	26 0.92	- 22 2 44.0	1 19 55.4	8.20421	190	14 59.6
18.5	16 57 48.77	26 42.45	23 22 39.4	1 3 58.8	8.20611	210	15 3.5
19.0	17 24 31.22	27 21.04	24 26 38.2	0 46 30.2	8.20821	231	15 7.9
19.5	17 51 52.26	27 54.82	25 13 8.4	0 27 38.4	8.21052	251	15 12.7
20.0	18 19 47.08	28 22.22	25 40 46.8	- 0 7 36.6	8.21303	270	15 18.0
20.5	18 48 9.30	28 41.91	25 48 23.4	+ 0 13 18.2	8.21573	286	15 23.7
21.0	19 16 51.21	28 53.24	25 35 5.2	0 34 44.6	8.21859	302	15 29.8
21.5	19 45 44.45	28 56.27	25 0 20.6	0 56 20.5	8.22161	314	15 36.3
22.0	20 14 40.72	28 51.70	24 4 0.1	1 17 40.6	8.22475	322	15 43.1
22.5	20 43 32.42	28 40.91	22 46 19.5	+ 1 38 20.9	8.22797	+325	15 50.2
23.0	21 12 13.33	28 25.74	- 21 7 58.6	1 57 57.8	8.23122	322	15 57.3
23.5	21 40 39.07	28 8.21	19 10 0.8	2 16 7.8	8.23444	314	16 4.4
24.0	22 8 47.28	27 50.41	16 53 53.0	2 32 32.2	8.23758	298	16 11.4
24.5	22 36 37.69	27 34.30	14 21 20.8	2 46 50.9	8.24056	275	16 18.1
25.0	23 4 11.99	27 21.61	11 34 29.9	2 58 46.8	8.24331	244	16 24.3
25.5	23 31 33.60	27 13.62	8 35 43.1	3 8 3.7	8.24575	206	16 29.9
26.0	23 58 47.22	27 11.40	5 27 39.4	3 14 26.3	8.24781	160	16 34.6
26.5	0 25 58.62	27 15.52	- 2 13 13.1	3 17 42.1	8.24941	110	16 38.3
27.0	0 53 14.14	27 26.16	+ 1 4 29.0	3 17 40.7	8.25051	+ 55	16 40.8
27.5	1 20 40.30	27 43.14	4 22 9.7	+ 3 14 15.0	8.25106	- 3	16 42.0
28.0	1 48 23.44	28 5.70	+ 7 36 24.7	3 7 21.3	8.25103	62	16 41.9
28.5	2 16 29.14	28 32.60	10 43 46.0	2 57 2.5	8.25041	119	16 40.5
29.0	2 45 1.74	29 2.02	13 40 48.5	2 43 26.6	8.24922	173	16 37.8
29.5	3 14 3.76	29 31.75	16 24 15.1	2 26 48.4	8.24749	223	16 33.8
30.0	3 43 35.51	29 58.96	18 51 3.5	2 7 30.7	8.24526	266	16 28.7
30.5	4 13 34.47	30 20.85	20 58 34.2	1 46 1.8	8.24260	303	16 22.7
31.0	4 43 55.32	30 34.59	22 44 36.0	1 22 57.5	8.23957	330	16 15.9
31.5	5 14 29.91	30 37.92	24 7 33.5	0 58 56.6	8.23627	349	16 8.5
Nov. 1.0	5 45 7.83	30 29.46	25 6 30.1	0 34 40.2	8.23278	361	16 0.7
1.5	6 15 37.29		25 41 10.3		8.22917		15 52.8

Okt. 13 21^h 7.0 Neumond. Okt. 21 19^h 57.2 Erst. Viert. Okt. 28 11^h 0.6 Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Okt. 13	U 11 ^h 36.6 ^m	13 ^h 3 ^m 56 ^s	+60.73	109.71	- 2° 24.1'	-13.2			
	O 23 56.6	13 25 57	-60.97	110.48	- 5 1.2	-13.0			
14	U 12 16.8	13 48 10	-61.36	111.82	- 7 35.8	-12.7			
15	O 0 37.3	14 10 43	-61.90	113.68	-10 6.6	-12.4			
	U 12 58.2	14 33 42	-62.58	116.04	-12 32.1	-11.9			
16	O 1 19.7	14 57 11	-63.39	118.88	-14 50.7	-11.2			
	U 13 41.8	15 21 18	-64.31	122.14	-17 0.9	-10.4			
17	O 2 4.5	15 46 6	-65.32	125.73	-19 0.9	- 9.5			
	U 14 28.0	16 11 38	-66.37	129.56	-20 48.9	- 8.4			
18	O 2 52.3	16 37 57	-67.44	133.50	-22 23.2	- 7.2			
	U 15 17.4	17 5 4	-68.50	137.40	-23 41.8	- 5.8			
19	O 3 43.2	17 32 56	-69.48	141.07	-24 43.0	- 4.3	17 ^h 0.8 ^m	-21 26	6.6
	U 16 9.7	18 1 30	-70.33	144.32	-25 24.9	- 2.6	17 12.5	-24 11	6.0
20	O 4 36.8	18 30 39	-71.02	146.98	-25 46.1	- 0.9	17 59.6	-24 24	6.5
	U 17 4.4	19 0 15	-71.52	148.91	-25 45.3	+ 1.0	18 6.2	-23 43	5.3
21	O 5 32.3	19 30 10	-71.81	150.04	-25 21.7	+ 2.9	18 56.9	-24 58	5.7
	U 18 0.3	20 0 13	-71.88	150.35	-24 34.8	+ 4.9	19 7.6	-26 4	6.3
22	O 6 28.3	20 30 15	-71.77	149.92	-23 24.7	+ 6.8	19 58.4	-22 51	6.4
	U 18 56.1	21 0 8	-71.50	148.88	-21 51.9	+ 8.6	20 12.7	-22 5	6.0
23	O 7 23.7	21 29 46	-71.12	147.43	-19 57.5	+10.4	20 59.3	-20 13	5.0
	U 19 51.0	21 59 5	-70.68	145.77	-17 42.9	+12.0	21 4.4	-20 55	6.2
24	O 8 17.9	22 28 4	-70.23	144.12	-15 10.0	+13.5	21 57.2	-18 20	6.4
	U 20 44.5	22 56 44	-69.83	142.66	-12 21.1	+14.7	22 21.7	-17 12	5.6
25	O 9 10.9	23 25 9	-69.53	141.56	- 9 18.7	+15.7	22 54.8	-13 34	6.5
	U 21 37.1	23 53 23	-69.35	140.95	- 6 5.6	+16.5	23 10.0	-11 11	6.3
26	O 10 3.2	0 21 34	-69.32	140.92	- 2 45.1	+16.9	23 43.9	- 6 53	6.4
	U 22 29.4	0 49 48	-69.45	141.50	+ 0 39.5	+17.1	23 57.3	- 6 31	4.7
27	O 10 55.8	1 18 13	-69.74	142.72	+ 4 4.6	+17.0	0 59.2	+ 0 53	6.0
	U 23 22.4	1 46 56	-70.19	144.53	+ 7 26.4	+16.6	1 5.9	+ 1 58	6.3
28	O 11 49.5	2 16 4	+70.77	146.95	+10 41.1	+15.8	1 36.7	+ 5 2	4.7
	U						2 6.6	+ 8 9	5.7
29	U 0 17.1	2 45 42	+71.44	149.62	+13 44.9	+14.7	2 46.5	+14 42	5.5
	O 12 45.3	3 15 54	+72.15	152.43	+16 34.0	+13.4	2 59.7	+15 30	6.5
30	U 1 14.0	3 46 39	+72.84	155.12	+19 5.1	+11.8	3 48.0	+17 3	6.0
	O 13 43.2	4 17 54	+73.42	157.41	+21 15.1	+ 9.9	3 55.5	+17 2	6.5
31	U 2 12.8	4 49 33	+73.84	158.98	+23 1.7	+ 7.8	4 52.3	+23 48	6.0
	O 14 42.6	5 21 25	+74.03	159.58	+24 23.0	+ 5.7	4 57.7	+21 28	4.7
Nov. 1	U 3 12.4	5 53 18	+73.94	159.05	+25 18.1	+ 3.5	5 52.4	+25 57	5.1
	O 15 42.0	6 24 58	+73.56	157.31	+25 47.0	+ 1.3	5 58.6	+23 16	4.3

Okt. 27 18^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Nov. 1.0	5 ^h 45 ^m 7.83	^m 29.46	+25° 6' 30.1	+0 34 40.2	8.23278	-361	16' 0.7
1.5	6 15 37.29	30 8.90	25 41 10.3	+0 10 47.1	8.22917	365	15 52.8
2.0	6 45 46.19	29 37.06	25 51 57.4	-0 12 7.8	8.22552	360	15 44.8
2.5	7 15 23.25	28 55.79	25 39 49.6	0 33 37.5	8.22192	351	15 37.0
3.0	7 44 19.04	28 7.52	25 6 12.1	0 53 22.1	8.21841	335	15 29.5
3.5	8 12 26.56	27 14.99	24 12 50.0	1 11 10.3	8.21506	315	15 22.3
4.0	8 39 41.55	26 20.87	23 1 39.7	1 26 58.4	8.21191	291	15 15.6
4.5	9 6 2.42	25 27.52	21 34 41.3	1 40 47.6	8.20900	263	15 9.5
5.0	9 31 29.94	24 36.90	19 53 53.7	1 52 43.3	8.20637	234	15 4.0
5.5	9 56 6.84	23 50.47	18 1 10.4	-2 2 53.2	8.20403	-204	14 59.2
6.0	10 19 57.31	23 9.24	+15 58 17.2	2 11 25.5	8.20199	173	14 55.0
6.5	10 43 6.55	22 33.96	13 46 51.7	2 18 28.4	8.20026	142	14 51.4
7.0	11 5 40.51	22 5.00	11 28 23.3	2 24 8.8	8.19884	111	14 48.5
7.5	11 27 45.51	21 42.62	9 4 14.5	2 28 32.8	8.19773	82	14 46.2
8.0	11 49 28.13	21 26.93	6 35 41.7	2 31 44.0	8.19691	54	14 44.6
8.5	12 10 55.06	21 17.87	4 3 57.7	2 33 45.1	8.19637	27	14 43.5
9.0	12 32 12.93	21 15.41	+ 1 30 12.6	2 34 37.0	8.19610	- 1	14 42.9
9.5	12 53 28.34	21 19.44	- 1 4 24.4	2 34 18.6	8.19609	+ 22	14 42.9
10.0	13 14 47.78	21 29.84	3 38 43.0	2 32 48.0	8.19631	43	14 43.3
10.5	13 36 17.62	21 46.41	6 11 31.0	-2 30 1.7	8.19674	+ 62	14 44.2
11.0	13 58 4.03	22 8.89	- 8 41 32.7	2 25 54.9	8.19736	80	14 45.5
11.5	14 20 12.92	22 36.88	11 7 27.6	2 20 23.0	8.19816	95	14 47.1
12.0	14 42 49.80	23 9.92	13 27 50.6	2 13 19.5	8.19911	111	14 49.1
12.5	15 5 59.72	23 47.18	15 41 10.1	2 4 39.7	8.20022	123	14 51.4
13.0	15 29 46.90	24 27.72	17 45 49.8	1 54 18.6	8.20145	134	14 53.9
13.5	15 54 14.62	25 10.29	19 40 8.4	1 42 13.3	8.20279	146	14 56.6
14.0	16 19 24.91	25 53.32	21 22 21.7	1 28 22.9	8.20425	157	14 59.6
14.5	16 45 18.23	26 34.96	22 50 44.6	1 12 49.5	8.20582	167	15 2.9
15.0	17 11 53.19	27 13.23	24 3 34.1	0 55 40.0	8.20749	176	15 6.4
15.5	17 39 6.42	27 46.17	24 59 14.1	-0 37 4.7	8.20925	+187	15 10.1
16.0	18 6 52.59	28 11.98	-25 36 18.8	-0 17 19.5	8.21112	197	15 14.0
16.5	18 35 4.57	28 29.41	25 53 38.3	+0 3 15.9	8.21309	206	15 18.1
17.0	19 3 33.98	28 37.68	25 50 22.4	0 24 19.1	8.21515	216	15 22.5
17.5	19 32 11.66	28 37.00	25 26 3.3	0 45 25.8	8.21731	225	15 27.1
18.0	20 0 48.66	28 28.20	24 40 37.5	1 6 11.6	8.21956	233	15 31.9
18.5	20 29 16.86	28 12.78	23 34 25.9	1 26 13.9	8.22189	240	15 36.9
19.0	20 57 29.64	27 52.75	22 8 12.0	1 45 12.6	8.22429	246	15 42.1
19.5	21 25 22.39	27 30.33	20 22 59.4	2 2 51.0	8.22675	249	15 47.5
20.0	21 52 52.72	27 7.65	18 20 8.4	2 18 54.0	8.22924	249	15 52.9
20.5	22 20 0.37		16 1 14.4		8.23173		15 58.4

Nov. 4 10^h 31.4 Letzt. Viert. Nov. 12 15^h 11.9 Neumond. Nov. 20 6^h 22.7 Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne			
							AR.	Dekl.	Gr.	
Nov. 1	U	^h 3 ^m 12.4	^h 5 ^m 53 ^s 18	+73.94	159.05	+25 18.1	+ 3.5	^h 5 ^m 52.4	+25 57	5.1
	O	15 42.0	6 24 58	+73.56	157.31	+25 47.0	+ 1.3	5 58.6	+23 16	4.3
2	U	4 11.2	6 56 10	+72.89	154.45	+25 50.3	- 0.8	6 56.9	+24 21	5.3
	O	16 39.7	7 26 43	+71.98	150.66	+25 29.2	- 2.7	7 5.8	+27 0	5.5
3	U	5 7.3	7 56 26	+70.88	146.17	+24 45.7	- 4.5	7 55.6	+23 50	6.5
	O	17 34.0	8 25 12	+69.66	141.27	+23 41.9	- 6.1	8 1.0	+22 54	6.2
4	U	5 59.8	8 52 58	+68.36	136.23	+22 20.1	- 7.5	9 4.2	+22 25	5.2
	O	18 24.5	9 19 44	+67.07	131.29	+20 42.5	- 8.7	9 8.5	+21 40	6.5
5	U	6 48.3	9 45 33	+65.83	126.65	+18 51.3	- 9.7	9 39.5	+19 17	6.5
	O	19 11.2	10 10 29	+64.67	122.43	+16 48.7	-10.6	10 2.4	+17 12	3.6
6	U	7 33.3	10 34 36	+63.63	118.73	+14 36.5	-11.4	10 27.4	+14 36	5.7
	O	19 54.7	10 58 3	+62.74	115.61	+12 16 3	-12.0	10 41.5	+13 14	6.5
7	U	8 15.5	11 20 55	+61.99	113.09	+ 9 49.7	-12.4	11 19.2	+11 2	4.0
	O	20 35.9	11 43 21	+61.41	111.19	+ 7 18.2	-12.8	11 33.8	+ 8 38	5.5
8	U	8 56.0	12 5 27	+61.02	109.92	+ 4 43.0	-13.0			
	O	21 15.9	12 27 22	+60.80	109.27	+ 2 5.4	-13.2			
9	U	9 35.7	12 49 13	+60.75	109.24	- 0 33.4	-13.2			
	O	21 55.6	13 11 6	+60.87	109.81	- 3 12.1	-13.2			
10	U	10 15.6	13 33 10	+61.17	110.95	- 5 49.5	-13.0			
	O	22 35.9	13 55 31	+61.63	112.67	- 8 24.2	-12.7			
11	U	10 56.6	14 18 15	+62.24	114.94	-10 54.8	-12.3			
	O	23 17.9	14 41 30	+63.00	117.72	-13 19.8	-11.8			
12	U	11 39.7	15 5 20	+63.88	120.94	-15 37.5	-11.1			
13	O	0 2.2	15 29 51	-64.85	124.36	-17 46.2	-10.3			
	U	12 25.4	15 55 7	-65.88	128.20	-19 44.0	- 9.3			
14	O	0 49.4	16 21 10	-66.95	132.17	-21 28.9	- 8.1			
	U	13 14.2	16 48 1	-68.00	136.10	-22 59.0	- 6.8			
15	O	1 39.8	17 15 38	-68.97	139.80	-24 12.3	- 5.3			
	U	14 6.1	17 43 56	-69.84	143.08	-25 7.1	- 3.7			
16	O	2 32.9	18 12 50	-70.54	145.72	-25 41.7	- 2.0			
	U	15 0.2	18 42 11	-71.04	147.58	-25 54.8	- 0.2			
17	O	3 27.8	19 11 49	-71.32	148.57	-25 45.5	+ 1.7			
	U	15 55.5	19 41 34	-71.38	148.69	-25 13.5	+ 3.6			
18	O	4 23.1	20 11 14	-71.23	147.98	-24 18.8	+ 5.5	19 34.7	-23 38	6.2
	U	16 50.5	20 40 42	-70.91	146.60	-23 2.0	+ 7.3	19 48.9	-24 10	6.4
19	O	5 17.6	21 9 50	-70.46	144.75	-21 24.1	+ 9.0	20 40.9	-21 51	5.8
	U	17 44.3	21 38 34	-69.95	142.66	-19 26.3	+10.6	20 59.3	-20 13	5.0
20	O	6 10.6	22 6 53	-69.41	140.55	-17 10.5	+12.0	21 32.0	-19 52	4.5
	U	18 36.5	22 34 47	-68.91	138.61	-14 38.5	+13.3	21 37.6	-19 17	4.8

Nov. 9 6^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Nov. 20.0	21 ^h 52 ^m 52.72	27 ^m 7.65	-18° 20' 8.4	+2° 18' 54.0	8.22924	+249	15' 52.9
20.5	22 20 0.37	26 46.89	16 1 14.4	2 33 10.6	8.23173	244	15 58.4
21.0	22 46 47.26	26 29.73	13 28 3.8	2 45 30.0	8.23417	237	16 3.8
21.5	23 13 16.99	26 17.64	10 42 33.8	2 55 42.4	8.23654	224	16 9.1
22.0	23 39 34.63	26 11.82	7 46 51.4	3 3 38.3	8.23878	205	16 14.1
22.5	0 5 46.45	26 13.03	4 43 13.1	3 9 7.2	8.24083	181	16 18.7
23.0	0 31 59.48	26 21.70	- 1 34 5.9	3 11 58.9	8.24264	151	16 22.8
23.5	0 58 21.18	26 38.02	+ 1 37 53.0	3 12 1.9	8.24415	116	16 26.2
24.0	1 24 59.20	27 1.64	4 49 54.9	3 9 5.6	8.24531	76	16 28.9
24.5	1 52 0.84	27 31.87	7 59 0.5	+3 3 0.9	8.24607	+ 32	16 30.6
25.0	2 19 32.71	28 7.41	+11 2 1.4	2 53 42.6	8.24639	- 15	16 31.3
25.5	2 47 40.12	28 46.45	13 55 44.0	2 41 8.3	8.24624	64	16 31.0
26.0	3 16 26.57	29 26.41	16 36 52.3	2 25 24.2	8.24560	112	16 29.5
26.5	3 45 52.98	30 4.24	19 2 16.5	2 6 44.0	8.24448	158	16 27.0
27.0	4 15 57.22	30 36.46	21 9 0.5	1 45 30.3	8.24290	201	16 23.4
27.5	4 46 33.68	30 59.66	22 54 30.8	1 22 16.4	8.24089	241	16 18.8
28.0	5 17 33.34	31 10.81	24 16 47.2	0 57 42.3	8.23848	274	16 13.4
28.5	5 48 44.15	31 7.91	25 14 29.5	0 32 34.7	8.23574	301	16 7.3
29.0	6 19 52.06	30 50.25	25 47 4.2	+0 7 39.6	8.23273	320	16 0.6
29.5	6 50 42.31	30 18.73	25 54 43.8	-0 16 19.4	8.22953	-333	15 53.6
30.0	7 21 1.04	29 35.38	+25 38 24.4	0 38 46.7	8.22620	338	15 46.3
30.5	7 50 36.42	28 43.22	24 59 37.7	0 59 16.4	8.22282	336	15 39.0
Dez. 1.0	8 19 19.64	27 45.66	24 0 21.3	1 17 33.4	8.21946	327	15 31.7
1.5	8 47 5.30	26 45.95	22 42 47.9	1 33 32.6	8.21619	314	15 24.7
2.0	9 13 51.25	25 47.02	21 9 15.3	1 47 15.6	8.21305	294	15 18.1
2.5	9 39 38.27	24 51.15	19 21 59.7	1 58 50.2	8.21011	271	15 11.9
3.0	10 4 29.42	24 0.09	17 23 9.5	2 8 26.7	8.20740	243	15 6.2
3.5	10 28 29.51	23 15.05	15 14 42.8	2 16 16.9	8.20497	213	15 1.1
4.0	10 51 44.56	22 36.71	12 58 25.9	2 22 32.0	8.20284	181	14 56.7
4.5	11 14 21.27	22 5.60	10 35 53.9	-2 27 22.0	8.20103	-147	14 53.0
5.0	11 36 26.87	21 41.86	+ 8 8 31.9	2 30 55.0	8.19956	113	14 50.0
5.5	11 58 8.73	21 25.56	5 37 36.9	2 33 17.8	8.19843	78	14 47.7
6.0	12 19 34.29	21 16.65	3 4 19.1	2 34 33.6	8.19765	45	14 46.1
6.5	12 40 50.94	21 15.10	+ 0 29 45.5	2 34 44.6	8.19720	- 12	14 45.2
7.0	13 2 6.04	21 20.73	- 2 4 59.1	2 33 50.1	8.19708	+ 19	14 44.9
7.5	13 23 26.77	21 33.39	4 38 49.2	2 31 47.9	8.19727	48	14 45.3
8.0	13 45 0.16	21 52.89	7 10 37.1	2 28 33.7	8.19775	75	14 46.3
8.5	14 6 53.05	22 18.90	9 39 10.8	2 24 1.4	8.19850	99	14 47.8
9.0	14 29 11.95	22 50.97	12 3 12.2	2 18 4.1	8.19949	121	14 49.8
9.5	14 52 2.92		14 21 16.3		8.20070		14 52.3

Nov. 20 6^h 22.7^m Erst. Viert. Nov. 26 21^h 45.5^m Vollmond. Dez. 4 5^h 6.1^m Letzt. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Nov. 20	O 6 ^h 10.6	22 ^h 6 ^m 53 ^s	-69.41	140.55	-17° 10.5	+12.0	21 32.0	-19 52	4.5
	U 18 36.5	22 34 47	-68.91	138.61	-14 38.5	+13.3	21 37.6	-19 17	4.8
21	O 7 2.0	23 2 21	-68.50	137.03	-11 52.4	+14.4	22 21.7	-17 12	5.6
	U 19 27.2	23 29 38	-68.20	135.96	- 8 54.5	+15.3	22 42.9	-14 32	5.6
22	O 7 52.3	23 56 46	-68.05	135.50	- 5 47.1	+15.9	23 30.9	- 7 58	6.5
	U 20 17.4	0 23 53	-68.08	135.71	- 2 33.0	+16.4	23 43.9	- 6 53	6.4
23	O 8 42.6	0 51 6	-68.30	136.65	+ 0 45.1	+16.6	0 19.9	- 2 43	6.0
	U 21 8.0	1 18 35	-68.70	138.32	+ 4 4.2	+16.5	0 30.9	- 1 0	6.0
24	O 9 33.9	1 46 29	-69.28	140.68	+ 7 21.0	+16.2	1 13.1	+ 3 8	5.3
	U 22 0.3	2 14 56	-70.02	143.67	+10 32.1	+15.6	1 25.5	+ 5 41	5.2
25	O 10 27.3	2 44 1	-70.87	147.13	+13 34.0	+14.7	2 8.2	+ 8 25	4.5
	U 22 55.1	3 13 49	-71.78	150.85	+16 22.9	+13.4	2 20.0	+10 12	5.5
26	O 11 23.6	3 44 23	-72.68	154.57	+18 55.3	+11.9	3 1.4	+12 50	5.9
	U 23 52.8	4 15 39	+73.50	158.07	+21 7.8	+10.1	3 21.9	+18 26	6.5
27	O 12 22.6	4 47 32	+74.14	160.71	+22 57.4	+ 8.1	4 17.1	+20 36	6.5
	—	—	—	—	—	—	4 22.7	+21 25	5.7
28	U 0 52.9	5 19 51	+74.54	162.28	+24 21.9	+ 5.9	5 23.7	+25 5	5.4
	O 13 23.3	5 52 21	+74.63	162.53	+25 19.6	+ 3.7	5 30.0	+23 59	5.4
29	U 1 53.7	6 24 46	+74.38	161.33	+25 49.9	+ 1.4	6 19.2	+25 6	6.5
	O 14 23.7	6 56 48	+73.79	158.73	+25 53.4	- 0.8	6 38.4	+25 13	3.2
30	U 2 53.0	7 28 12	+72.90	154.89	+25 31.1	- 2.9	7 27.4	+23 5	6.0
	O 15 21.5	7 58 44	+71.77	150.13	+24 45.0	- 4.8	7 35.6	+23 14	6.1
Dez. 1	U 3 49.0	8 28 16	+70.47	144.80	+23 37.5	- 6.5	8 27.7	+24 24	6.4
	O 16 15.4	8 56 42	+69.08	139.25	+22 11.3	- 7.9	8 33.5	+24 1	6.5
2	U 4 40.7	9 24 1	+67.68	133.75	+20 29.0	- 9.1	9 33.8	+20 42	6.5
	O 17 4.9	9 50 16	+66.33	128.56	+18 33.0	-10.2	9 38.3	+20 37	6.5
3	U 5 28.1	10 15 32	+65.08	123.85	+16 25.7	-11.0	10 17.0	+15 26	6.2
	O 17 50.4	10 39 54	+63.96	119.72	+14 9.3	-11.7	10 27.4	+14 36	5.7
4	U 6 12.0	11 3 30	+62.99	116.24	+11 45.5	-12.2	10 59.8	+13 9	6.5
	O 18 32.9	11 26 28	+62.20	113.44	+ 9 16.0	-12.6	11 19.2	+11 2	4.0
5	U 6 53.4	11 48 57	+61.59	111.34	+ 6 42.2	-12.9	11 43.3	+ 8 45	5.2
	O 19 13.5	12 11 4	+61.17	109.93	+ 4 5.5	-13.1	11 56.2	+ 7 7	4.6
6	U 7 33.4	12 32 59	+60.94	109.22	+ 1 27.1	-13.2	12 33.8	+ 2 21	6.1
	O 19 53.2	12 54 49	+60.90	109.19	- 1 12.0	-13.2	12 48.5	- 3 4	6.1
7	U 8 13.0	13 16 42	+61.04	109.83	- 3 50.5	-13.1	13 18.6	- 4 27	6.1
	O 20 33.1	13 38 47	+61.37	111.13	- 6 27.3	-13.0	13 25.7	- 6 0	6.1
8	U 8 53.5	14 1 11	+61.88	113.06	- 9 1.1	-12.7			
	O 21 14.3	14 24 1	+62.56	115.59	-11 30.5	-12.2			
9	U 9 35.7	14 47 25	+63.38	118.68	-13 54.1	-11.7			
	O 21 57.7	15 11 29	+64.32	122.26	-16 10.3	-11.0			

Nov. 25 ^h 2 Perigäum.

Dez. 6 ^h 23 Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Dez. 9.0	14 ^h 29 ^m 11.95	22 50.97	—12° 3' 12.2	—2° 18' 4.1	8.19949	+121	14 49.8
9.5	14 52 2.92	23 28.49	14 21 16.3	2 10 33.9	8.20070	139	14 52.3
10.0	15 15 31.41	24 10.54	16 31 50.2	2 1 23.5	8.20209	155	14 55.2
10.5	15 39 41.95	24 55.86	18 33 13.7	1 50 25.7	8.20364	167	14 58.4
11.0	16 4 37.81	25 42.92	20 23 39.4	1 37 35.6	8.20531	177	15 1.8
11.5	16 30 20.73	26 29.73	22 1 15.0	1 22 51.8	8.20708	183	15 5.5
12.0	16 56 50.46	27 14.06	23 24 6.8	1 6 16.6	8.20891	188	15 9.4
12.5	17 24 4.52	27 53.40	24 30 23.4	0 47 59.8	8.21079	191	15 13.3
13.0	17 51 57.92	28 25.45	25 18 23.2	0 28 14.8	8.21270	190	15 17.3
13.5	18 20 23.37	28 48.25	25 46 38.0	—0 7 23.4	8.21460	+189	15 21.3
14.0	18 49 11.62	29 0.52	—25 54 1.4	+0 14 8.8	8.21649	187	15 25.4
14.5	19 18 12.14	29 1.84	25 39 52.6	0 35 52.7	8.21836	183	15 29.4
15.0	19 47 13.98	28 52.81	25 3 59.9	0 57 18.0	8.22019	180	15 33.3
15.5	20 16 6.79	28 34.90	24 6 41.9	1 17 56.7	8.22199	174	15 37.1
16.0	20 44 41.69	28 10.29	22 48 45.2	1 37 23.8	8.22373	170	15 40.9
16.5	21 12 51.98	27 41.51	21 11 21.4	1 55 19.6	8.22543	166	15 44.6
17.0	21 40 33.49	27 11.14	19 16 1.8	2 11 29.6	8.22709	160	15 48.2
17.5	22 7 44.63	26 41.65	17 4 32.2	2 25 43.1	8.22869	155	15 51.7
18.0	22 34 26.28	26 15.17	14 38 49.1	2 37 54.3	8.23024	150	15 55.1
18.5	23 0 41.45	25 53.45	12 0 54.8	+2 47 58.6	8.23174	+143	15 58.4
19.0	23 26 34.90	25 37.85	—9 12 56.2	2 55 53.3	8.23317	134	16 1.6
19.5	23 52 12.75	25 29.39	6 17 2.9	3 1 35.1	8.23451	124	16 4.6
20.0	0 17 42.14	25 28.74	3 15 27.8	3 5 1.0	8.23575	112	16 7.3
20.5	0 43 10.88	25 36.20	—0 10 26.8	3 6 5.9	8.23687	98	16 9.8
21.0	1 8 47.08	25 51.91	+2 55 39.1	3 4 44.6	8.23785	80	16 12.0
21.5	1 34 38.99	26 15.54	6 0 23.7	3 0 49.5	8.23865	58	16 13.8
22.0	2 0 54.53	26 46.43	9 1 13.2	2 54 13.2	8.23923	36	16 15.1
22.5	2 27 40.96	27 23.35	11 55 26.4	2 44 50.2	8.23959	+9	16 15.9
23.0	2 55 4.31	28 4.65	14 40 16.6	2 32 35.9	8.23968	—21	16 16.1
23.5	3 23 8.96	28 47.90	17 12 52.5	+2 17 30.7	8.23947	—52	16 15.6
24.0	3 51 56.86	29 30.14	+19 30 23.2	1 59 41.9	8.23895	84	16 14.5
24.5	4 21 27.00	30 7.92	21 30 5.1	1 39 24.4	8.23811	118	16 12.6
25.0	4 51 34.92	30 37.66	23 9 29.5	1 17 2.9	8.23693	150	16 10.0
25.5	5 22 12.58	30 56.01	24 26 32.4	0 53 11.2	8.23543	180	16 6.6
26.0	5 53 8.59	31 0.48	25 19 43.6	0 28 31.3	8.23363	209	16 2.6
26.5	6 24 9.07	30 49.87	25 48 14.9	+0 3 47.8	8.23154	234	15 58.0
27.0	6 54 58.94	30 24.49	25 52 2.7	—0 20 14.3	8.22920	254	15 52.8
27.5	7 25 23.43	29 46.04	25 31 48.4	0 42 55.4	8.22666	270	15 47.2
28.0	7 55 9.47	28 57.33	24 48 53.0	1 3 44.3	8.22396	280	15 41.4
28.5	8 24 6.80		23 45 8.7		8.22116		15 35.4

Dez. 12 8^h 52.3^m Neumond. Dez. 19 15^h 11.3^m Erst. Viert. Dez. 26 10^h 23.5^m Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Dez. 9 U	9 35.7	14 47 25	+63.38	118.68	-13° 54.1	-11.7			
	0 21 57.7	15 11 29	+64.32	122.26	-16 10.3	-11.0			
10 U	10 20.5	15 36 19	+65.36	126.25	-18 17.1	-10.1			
	0 22 44.1	16 1 58	+66.47	130.51	-20 12.6	-9.1			
11 U	11 8.6	16 28 29	+67.60	134.88	-21 54.8	-7.9			
	0 23 33.9	16 55 52	+68.70	139.15	-23 21.4	-6.5			
12 U	12 0.1	17 24 5	-69.69	142.93	-24 30.4	-5.0			
	—	—	—	—	—	—			
13 O	0 27.0	17 53 1	-70.53	146.28	-25 19.8	-3.3			
	U 12 54.5	18 22 33	-71.18	148.84	-25 47.9	-1.4			
14 O	1 22.4	18 52 30	-71.60	150.41	-25 53.5	+0.5			
	U 13 50.5	19 22 40	-71.76	150.93	-25 35.8	+2.5			
15 O	2 18.6	19 52 49	-71.65	150.40	-24 54.6	+4.4			
	U 14 46.5	20 22 45	-71.31	148.95	-23 50.5	+6.3			
16 O	3 14.0	20 52 19	-70.81	146.78	-22 24.4	+8.1			
	U 15 41.0	21 21 25	-70.18	144.15	-20 37.8	+9.7			
17 O	4 7.5	21 49 58	-69.50	141.33	-18 32.6	+11.2	21 19.0	-21 14	5.6
	U 16 33.5	22 17 56	-68.82	138.56	-16 10.8	+12.5	21 24.9	-19 33	6.5
18 O	4 58.9	22 45 23	-68.19	136.05	-13 34.6	+13.6	21 57.2	-18 20	6.4
	U 17 23.8	23 12 23	-67.67	133.99	-10 46.5	+14.5	22 21.7	-17 12	5.6
19 O	5 48.4	23 39 1	-67.30	132.52	-7 48.7	+15.2	23 10.0	-11 11	6.3
	U 18 12.8	0 5 25	-67.10	131.73	-4 43.6	+15.7	23 14.3	-10 7	5.2
20 O	6 37.1	0 31 45	-67.08	131.68	-1 33.7	+16.0	0 0.7	-6 13	4.6
	U 19 1.4	0 58 9	-67.26	132.41	+1 38.5	+16.0	0 5.7	-5 45	5.9
21 O	7 26.0	1 24 46	-67.64	133.92	+4 50.4	+15.9	0 59.2	+0 53	6.0
	U 19 51.0	1 51 47	-68.21	136.19	+7 59.3	+15.5	1 5.9	+1 58	6.3
22 O	8 16.5	2 19 19	-68.95	139.15	+11 2.2	+14.9	1 36.7	+5 2	4.7
	U 20 42.6	2 47 30	-69.82	142.69	+13 56.2	+14.0	2 6.6	+8 9	5.7
23 O	9 9.5	3 16 26	-70.78	146.61	+16 38.0	+12.9	2 46.5	+14 42	5.5
	U 21 37.2	3 46 11	-71.76	150.68	+19 4.5	+11.5	2 59.7	+15 30	6.5
24 O	10 5.7	4 16 43	-72.69	154.57	+21 12.4	+9.8	3 38.6	+19 23	6.4
	U 22 34.9	4 47 59	-73.47	157.92	+22 58.9	+7.9	3 48.0	+17 3	6.0
25 O	11 4.7	5 19 51	-74.03	160.36	+24 21.5	+5.8	4 48.1	+23 10	6.5
	U 23 34.9	5 52 4	-74.30	161.55	+25 18.3	+3.6	4 52.4	+23 48	6.0
26 O	12 5.2	6 24 22	+74.24	161.27	+25 48.4	+1.4	5 52.4	+25 57	5.1
	—	—	—	—	—	—	5 58.7	+23 16	4.3
27 U	0 35.2	6 56 29	+73.83	159.48	+25 51.6	-0.8	6 56.9	+24 21	5.3
	0 13 4.8	7 28 6	+73.08	156.32	+25 28.8	-2.9	7 5.8	+27 0	5.5
28 U	1 33.6	7 58 58	+72.05	152.05	+24 41.7	-4.9	8 1.0	+22 54	6.2
	0 14 1.5	8 28 55	+70.83	147.01	+23 32.5	-6.6	8 8.4	+23 25	6.5

Dez. 22 22^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Dif.	Wahre Dekl.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.
Dez. 28.0	^h 7 55 ^m 9.47	^m 28 57.33	+24° 48' 53.0	-1 3 44.3	8.22396	-280	15 41.4
28.5	8 24 6.80	28 1.77	23 45 8.7	1 22 21.0	8.22116	284	15 35.4
29.0	8 52 8.57	27 2.81	22 22 47.7	1 38 34.8	8.21832	284	15 29.3
29.5	9 19 11.38	26 3.62	20 44 12.9	1 52 25.1	8.21548	277	15 23.2
30.0	9 45 15.00	25 6.77	18 51 47.8	2 3 57.0	8.21271	265	15 17.3
30.5	10 10 21.77	24 14.24	16 47 50.8	2 13 20.2	8.21006	248	15 11.8
31.0	10 34 36.01	23 27.43	14 34 30.6	2 20 46.6	8.20758	228	15 6.6
31.5	10 58 3.44	22 47.31	12 13 44.0	2 26 29.4	8.20530	201	15 1.8
32.0	11 20 50.75		9 47 14.6		8.20329		14 57.7

Phasen des Mondes.

Jan. 6	^h 3 ^m 6.3	Vollmond	Juli 3	^h 1 ^m 10.9	Vollmond
14	7 4.9	Letztes Viertel	9	19 51.7	Letztes Viertel
21	13 5.4	Neumond	16	23 38.2	Neumond
28	4 1.0	Erstes Viertel	25	0 38.9	Erstes Viertel
Febr. 4	21 18.5	Vollmond	Aug. 1	10 7.6	Vollmond
13	1 40.5	Letztes Viertel	8	1 3.5	Letztes Viertel
19	23 45.7	Neumond	15	12 48.3	Neumond
26	15 42.7	Erstes Viertel	23	16 48.9	Erstes Viertel
März 6	15 49.4	Vollmond	30	18 1.4	Vollmond
14	16 35.3	Letztes Viertel	Sept. 6	8 38.0	Letztes Viertel
21	9 4.9	Neumond	14	4 2.3	Neumond
28	5 42.3	Erstes Viertel	22	7 25.1	Erstes Viertel
April 5	9 22.0	Vollmond	29	1 59.0	Vollmond
13	3 23.8	Letztes Viertel	Okt. 5	19 37.8	Letztes Viertel
19	17 44.9	Neumond	13	21 7.0	Neumond
26	21 29.8	Erstes Viertel	21	19 57.2	Erstes Viertel
Mai 5	1 1.4	Vollmond	28	11 0.6	Vollmond
12	10 38.9	Letztes Viertel	Nov. 4	10 31.4	Letztes Viertel
19	2 35.6	Neumond	12	15 11.9	Neumond
26	14 21.4	Erstes Viertel	20	6 22.7	Erstes Viertel
Juni 3	14 18.3	Vollmond	26	21 45.5	Vollmond
10	15 36.2	Letztes Viertel	Dez. 4	5 6.1	Letztes Viertel
17	12 21.9	Neumond	12	8 52.3	Neumond
25	7 36.4	Erstes Viertel	19	15 11.3	Erstes Viertel
			26	10 23.5	Vollmond

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Dekl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Dekl.	Gr.
Dez. 28 U	1 ^h 33.6 ^m	7 ^h 58 ^m 58 ^s	+72.05	152.05	+24° 41.7'	- 4.9	8 ^h 1.0 ^m	+22° 54'	6.2
	O 14 1.5	8 28 55	+70.83	147.01	+23 32.5	- 6.6	8 8.4	+23 25	6.5
29 U	2 28.3	8 57 48	+69.49	141.56	+22 3.7	- 8.1	9 4.2	+22 25	5.2
	O 14 54.1	9 25 35	+68.11	136.03	+20 18.2	- 9.4	9 8.5	+21 40	6.5
30 U	3 18.7	9 52 17	+66.75	130.70	+18 18.6	-10.5	9 39.5	+19 17	6.5
	O 15 42.3	10 17 56	+65.48	125.77	+16 7.6	-11.3	10 2.4	+17 12	3.6
31 U	4 5.1	10 42 40	+64.32	121.39	+13 47.3	-12.0	10 41.7	+14 41	5.7
	O 16 26.9	11 6 35	+63.32	117.65	+11 20.0	-12.5	10 59.8	+13 9	6.5

Mond

im Apogäum

Jan. 11	4 ^h
Febr. 7	18
März 6	21
April 3	0
April 30	13
Mai 28	6
Juni 25	1
Juli 22	19
Aug. 19	12
Sept. 15	22
Okt. 13	0
Nov. 9	6
Dez. 6	23

Mond

im Perigäum

Jan. 23	2 ^h
Febr. 20	12
März 21	0
April 18	9
Mai 16	9
Juni 12	5
Juli 7	9
Aug. 3	17
Aug. 31	20
Sept. 29	6
Okt. 27	18
Nov. 25	2
Dez. 22	22

Mittlere Mitternacht Berlin.

Datum	$\alpha_c - \alpha_k$		$\delta_c - \delta_k$		$\log \sin p_k$
Jan. 1	-13.54	+0.23	+73.4	-0.1	8.22689 - 7
2	-13.16	+0.38	+66.2	-7.2	8.22326 - 363 - 7
3	-12.59	+0.57	+58.6	-7.6	8.21956 - 370 - 2
4	-11.87	+0.72	+50.3	-8.3	8.21584 - 372 + 1
5	-11.03	+0.84	+40.9	-9.4	8.21213 - 371 + 14
6	-10.11	+0.92	+30.3	-10.6	8.20856 - 357 + 26
7	-9.14	+0.97	+18.5	-11.8	8.20525 - 331 + 47
8	-8.13	+1.01	+5.9	-12.6	8.20241 - 284 + 68
9	-7.08	+1.05	-6.9	-12.8	8.20025 - 216 + 90
10	-5.96	+1.12	-19.2	-12.3	8.19809 - 126 + 90
11	-4.77	+1.19	-29.9	-10.7	8.19882 - 17 + 109
12	-3.51	+1.26	-37.8	-7.9	8.19882 + 107 + 124
13	-2.19	+1.32	-41.6	-3.8	8.19989 + 241 + 134
14	-0.84	+1.35	-39.9	+1.7	8.20230 + 241 + 136
Jan. 28	-14.93	+0.33	+66.9	-5.8	8.22937 - 524
29	-14.60	+0.62	+61.1	-5.4	8.22413 - 491 + 33
30	-13.98	+0.85	+55.7	-6.0	8.21922 - 446 + 45
31	-13.13	+1.00	+49.7	-7.2	8.21476 - 398 + 48
Febr. 1	-12.13	+1.09	+42.5	-8.9	8.21078 - 348 + 50
2	-11.04	+1.11	+33.6	-10.4	8.20730 - 300 + 48
3	-9.93	+1.10	+23.2	-11.6	8.20430 - 251 + 49
4	-8.83	+1.09	+11.6	-12.1	8.20179 - 196 + 55
5	-7.74	+1.12	-0.5	-11.8	8.19983 - 134 + 62
6	-6.62	+1.17	-12.3	-10.5	8.19849 - 62 + 72
7	-5.45	+1.26	-22.8	-8.3	8.19787 + 24 + 86
8	-4.19	+1.36	-31.1	-4.9	8.19811 + 124 + 100
9	-2.83	+1.44	-36.0	-0.4	8.19935 + 235 + 111
10	-1.39	+1.47	-36.4	+5.4	8.20170 + 355 + 120
11	+0.08	+1.41	-31.0	+12.0	8.20525 + 473 + 118
12	+1.49	+1.14	-19.0	+19.2	8.20998 + 584 + 111
13	+2.63		+0.2		8.21582
Febr. 27	-14.70	+0.94	+46.4	-4.9	8.21836 - 552
28	-13.76	+1.14	+41.5	-6.3	8.21284 - 466 + 86
März 1	-12.62	+1.23	+35.2	-8.2	8.20818 - 378 + 88
2	-11.39	+1.23	+27.0	-9.8	8.20440 - 290 + 88
3	-10.14	+1.23	+17.2	-10.8	8.20150 - 208 + 82
4	-8.91	+1.20	+6.4	-11.0	8.19942 - 132 + 76
5	-7.71	+1.21	-4.6	-10.0	8.19810 - 60 + 72
6	-6.50	+1.25	-14.6	-8.0	8.19750 + 8 + 68
7	-5.25	+1.32	-22.6	-5.1	8.19758 + 80 + 72
8	-3.93	+1.41	-27.7	-1.1	8.19838 + 157 + 77
9	-2.52	+1.48	-28.8	+3.8	8.19995 + 239 + 82
10	-1.04		-25.0	+5.8	8.20234 + 239 + 92

Mittlere Mitternacht Berlin.

Datum	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
März 10	- 1.04 +1.47 -0.01	- 25.0 + 9.6 +5.8	8.20234 +331 + 92
11	+ 0.43 +1.36 -0.11	- 15.4 +16.1 +6.5	8.20565 +423 + 92
12	+ 1.79 +1.03 -0.33	+ 0.7 +22.4 +6.3	8.20988 +516 + 93
13	+ 2.82 +0.45 -0.58	+ 23.1 +27.7 +5.3	8.21504 +597 + 81
14	+ 3.27	+ 50.8	8.22101
März 28	-13.93 +1.11	+ 33.9 - 5.9	8.21325 -534
29	-12.82 +1.24 +0.13	+ 28.0 - 7.7 -1.8	8.20791 -421 +113
30	-11.58 +1.30 +0.06	+ 20.3 - 9.2 -1.5	8.20370 -306 +115
31	-10.28 +1.30 0.00	+ 11.1 - 9.8 -0.6	8.20064 -195 +111
April 1	- 8.98 +1.28 -0.02	+ 1.3 - 9.4 +0.4	8.19869 - 91 +104
2	- 7.70 +1.28 0.00	- 8.1 - 9.8 +1.6	8.19778 + 1 + 92
3	- 6.42 +1.31 +0.03	- 15.9 - 5.1 +2.7	8.19779 + 79 + 78
4	- 5.11 +1.36 +0.05	- 21.0 - 1.4 +3.7	8.19858 +149 + 70
5	- 3.75 +1.39 +0.03	- 22.4 + 3.2 +4.6	8.20007 +212 + 63
6	- 2.36 +1.39 0.00	- 19.2 + 8.6 +5.4	8.20219 +269 + 57
7	- 0.97 +1.30 -0.09	- 10.6 +14.4 +5.8	8.20488 +325 + 56
8	+ 0.33 +1.09 -0.21	+ 3.8 +20.1 +5.7	8.20813 +382 + 57
9	+ 1.42 +0.64 -0.45	+ 23.9 +24.8 +4.7	8.21195 +441 + 59
10	+ 2.06 -0.01 -0.65	+ 48.7 +27.6 +2.8	8.21636 +494 + 53
11	+ 2.05 -0.74 -0.73	+ 76.3 +27.0 -0.6	8.22130 +537 + 43
12	+ 1.31 -1.50 -0.76	+103.3 +22.6 -4.4	8.22667 +563 + 26
13	- 0.19	+125.9	8.23230
April 27	-11.28 +1.26	+ 12.8 - 8.6	8.20427 -319
28	-10.02 +1.30 +0.04	+ 4.2 - 8.7 -0.1	8.20108 -188 +131
29	- 8.72 +1.32 +0.02	- 4.5 - 7.7 +1.0	8.19920 - 63 +125
30	- 7.40 +1.33 +0.01	- 12.2 - 5.5 +2.2	8.19857 + 50 +113
Mai 1	- 6.07 +1.35 +0.02	- 17.7 - 2.0 +3.5	8.19907 +148 + 98
2	- 4.72 +1.35 0.00	- 19.7 + 2.5 +4.5	8.20055 +226 + 78
3	- 3.37 +1.31 -0.04	- 17.2 + 7.8 +5.3	8.20281 +288 + 62
4	- 2.06 +1.21 -0.10	- 9.4 +13.5 +5.7	8.20569 +329 + 41
5	- 0.85 +0.96 -0.25	+ 4.1 +19.0 +5.5	8.20898 +360 + 31
6	+ 0.11 +0.56 -0.40	+ 23.1 +23.6 +4.6	8.21258 +379 + 19
7	+ 0.67 +0.01 -0.55	+ 46.7 +25.9 +2.3	8.21637 +392 + 13
8	+ 0.68 -0.66 -0.67	+ 72.6 +25.4 -0.5	8.22029 +399 + 7
9	+ 0.02 -1.24 -0.58	+ 98.0 +21.8 -3.6	8.22428 +404 + 5
10	- 1.22 -1.62 -0.38	+119.8 +15.4 -6.4	8.22832 +399 - 5
11	- 2.84 -1.76 -0.14	+135.2 + 7.7 -7.7	8.23231 +382 - 17
12	- 4.60 -1.64 +0.12	+142.9 - 0.4 -8.1	8.23613 +345 - 37
13	- 6.24	+142.5	8.23958
Mai 26	- 9.30 +1.28	- 3.2 - 7.5	8.20167 -172
27	- 8.02 +1.34 +0.06	- 10.7 - 5.9 +1.6	8.19995 - 34 +138
28	- 6.68 +0.04	- 16.6 +2.9	8.19961 +128

Mittlere Mitternacht Berlin.

Datum	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$		
Mai	28	- 6.68 +1.38 +0.04	- 16.6 - 3.0 + 2.9	8.19961 + 94 +128	
	29	- 5.30 +1.39 +0.01	- 19.6 + 1.1 + 4.1	8.20055 +212 +118	
	30	- 3.91 +1.34 -0.05	- 18.5 + 6.3 + 5.2	8.20267 +307 + 95	
	31	- 2.57 +1.21 -0.13	- 12.2 +12.2 + 5.9	8.20574 +377 + 70	
Juni	1	- 1.36 +0.96 -0.25	0.0 +18.2 + 6.0	8.20951 +419 + 42	
	2	- 0.40 +0.51 -0.45	+ 18.2 +23.0 + 4.8	8.21370 +434 + 15	
	3	+ 0.11 -0.10 -0.61	+ 41.2 +25.8 + 2.8	8.21804 +423 - 11	
	4	+ 0.01 -0.76 -0.66	+ 67.0 +25.3 - 0.5	8.22227 +393 - 30	
	5	- 0.75 -1.40 -0.64	+ 92.3 +21.3 - 4.0	8.22620 +350 - 43	
	6	- 2.15 -1.75 -0.35	+113.6 +15.0 - 6.3	8.22970 +299 - 51	
	7	- 3.90 -1.76 -0.01	+128.6 + 7.1 - 7.9	8.23269 +246 - 53	
	8	- 5.66 -1.58 +0.18	+135.7 - 0.1 - 7.2	8.23515 +193 - 53	
	9	- 7.24 -1.26 +0.32	+135.6 - 6.1 - 6.0	8.23708 +140 - 53	
	10	- 8.50 -0.95 +0.31	+129.5 -10.7 - 4.6	8.23848 + 81 - 59	
	11	- 9.45	+118.8	8.23929	
Juni	25	- 5.62 +1.44 0.00	- 19.5 - 0.5 + 4.7	8.20005 +133 +131	
	26	- 4.18 +1.44 -0.08	- 20.0 +10.0 + 5.8	8.20138 +264 +113	
	27	- 2.74 +1.36 -0.22	- 5.8 +16.2 + 6.2	8.20402 +377 + 89	
	28	- 1.38 +1.14 -0.41	+ 10.4 +22.2 + 6.0	8.21245 +521 + 55	
	29	+ 0.49 +0.07 -0.66	+ 32.6 +25.9 + 3.7	8.21766 +537 + 16	
Juli	1	+ 0.56 -0.78 -0.85	+ 58.5 +26.8 + 0.9	8.22303 +514 - 23	
	2	- 0.22 -1.50 -0.72	+ 85.3 +23.3 - 3.5	8.22817 +455 - 59	
	3	- 1.72 -2.06 -0.56	+108.6 +15.9 - 7.4	8.23272 +363 - 92	
	4	- 3.78 -2.20 -0.14	+124.5 + 7.5 - 8.4	8.23635 +257 -106	
	5	- 5.98 -1.94 +0.26	+132.0 - 1.1 - 8.6	8.23892 +143 -114	
	6	- 7.92 -1.55 +0.39	+130.9 - 7.5 - 6.4	8.24035 + 38 -105	
	7	- 9.47 -1.10 +0.45	+123.4 -11.5 - 4.0	8.24073 - 58 - 96	
	8	-10.57 -0.73 +0.37	+111.9 -13.6 - 2.1	8.24015 -132 - 74	
	9	-11.30 -0.46 +0.27	+ 98.3 -14.3 - 0.7	8.23883 -194 - 62	
	10	-11.76	+ 84.0	8.23689	
Juli	24	- 2.96 +1.53 -0.11	- 16.3 + 7.3 + 6.0	8.20124 +295 +127	
	25	- 1.43 +1.42 -0.32	+ 4.3 +19.6 + 6.3	8.20841 +528 +106	
	26	+ 1.09 +0.54 -0.56	+ 23.9 +25.2 + 5.6	8.21369 +606 + 78	
	27	+ 1.63 -0.28 -0.82	+ 49.1 +27.7 + 2.5	8.21975 +640 + 34	
	28	+ 1.35 -1.28 -1.00	+ 76.8 +26.5 - 1.2	8.22615 +625 - 15	
	29	+ 0.07 -2.05 -0.77	+103.3 +20.5 - 6.0	8.23240 +559 - 66	
	30	- 1.98 -2.51 -0.46	+123.8 +10.4 -10.1	8.23799 +444 -115	
	31	- 4.49 -2.55 +0.04	+134.2 + 0.3 -10.1	8.24243 +291 -153	
	Aug.	1	- 7.04 -2.15 +0.40	+134.5 - 8.6 - 8.9	8.24534 +120 -171
		2	- 9.19 -1.67 +0.48	+125.9 -14.4 - 5.8	8.24654 - 47 -167
		3	-10.86 +0.48	+111.5	8.24607 -148
4					

Mittlere Mitternacht Berlin.

Datum	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
Aug. 4	-10.86 -1.19 +0.48	+111.5 -16.5 - 2.1	8.24607 -195 -148
5	-12.05 -0.78 +0.41	+ 95.0 -16.6 - 0.1	8.24412 -312 -117
6	-12.83 -0.48 +0.30	+ 78.4 -14.7 + 1.9	8.24100 -390 - 78
7	-13.31 -0.23 +0.25	+ 63.7 -12.4 + 2.3	8.23710 -433 - 43
8	-13.54 -0.03 +0.20	+ 51.3 -10.1 + 2.3	8.23277 -449 - 16
9	-13.57	+ 41.2	8.22828
Aug. 23	+ 1.12 +1.04 -0.66	+ 19.8 +22.3	8.20787 +545
24	+ 2.16 +0.38 -0.89	+ 42.1 +27.0 + 4.7	8.21332 +638 + 93
25	+ 2.54 -0.51 -0.89	+ 69.1 +27.9 + 0.9	8.21970 +699 + 61
26	+ 2.03 -1.53 -1.02	+ 97.0 +24.8 - 3.1	8.22669 +710 + 11
27	+ 0.50 -2.26 -0.73	+121.8 +17.2 - 7.6	8.23379 +663 - 47
28	- 1.76 -2.64 -0.38	+139.0 + 5.5 -11.7	8.24042 +555 -108
29	- 4.40 -2.63 +0.01	+144.5 - 5.5 -11.0	8.24597 +390 -165
30	- 7.03 -2.27 +0.36	+139.0 -14.8 - 9.3	8.24087 +183 -207
31	- 9.30 -1.85 +0.42	+124.2 -20.2 - 5.4	8.25170 - 35 -218
Sept. 1	-11.15 -1.43 +0.42	+104.0 -21.2 - 1.0	8.25135 -241 -206
2	-12.58 -1.06 +0.37	+ 82.8 -19.6 + 1.6	8.24894 -410 -169
3	-13.64 -0.73 +0.33	+ 63.2 -15.5 + 4.1	8.24484 -528 -118
4	-14.37 -0.42 +0.31	+ 47.7 -11.3 + 4.2	8.23956 -590 - 62
5	-14.79 -0.11 +0.31	+ 36.4 - 7.4 + 3.9	8.23366 -606 - 16
6	-14.90 +0.20 +0.31	+ 29.0 - 4.6 + 2.8	8.22760 -583 + 23
7	-14.70	+ 24.4	8.22177
Sept. 21	+ 2.47 +0.17 -0.82	+ 64.1 +27.2 - 0.8	8.21234 +607 + 76
22	+ 2.64 -0.65 -0.88	+ 91.3 +26.4 - 4.8	8.21841 +683 + 37
23	+ 1.99 -1.53 -0.88	+117.7 +21.6 - 4.8	8.22524 +720 + 37
24	+ 0.46 -2.13 -0.60	+139.3 +13.1 - 8.5	8.23244 +708 - 12
25	- 1.67 -2.38 -0.25	+152.4 + 1.5 -11.6	8.23952 +631 - 77
26	- 4.05 -2.37 +0.01	+153.9 - 9.4 -10.9	8.24583 +492 -139
27	- 6.42 -2.13 +0.24	+144.5 -18.8 - 9.4	8.25075 +294 -198
28	- 8.55 -1.87 +0.26	+125.7 -24.1 - 5.3	8.25369 + 58 -236
29	-10.42 -1.61 +0.26	+101.6 -25.0 - 0.9	8.25427 -181 -239
30	-12.03 -1.36 +0.25	+ 76.6 -22.4 + 2.6	8.25246 -398 -217
Okt. 1	-13.39 -1.10 +0.26	+ 54.2 -16.7 + 5.7	8.24848 -566 -168
2	-14.49 -0.77 +0.33	+ 37.5 -10.9 + 5.8	8.24282 -666 -100
3	-15.26 -0.35 +0.42	+ 26.6 - 5.6 + 5.3	8.23616 -707 - 41
4	-15.61 +0.11 +0.46	+ 21.0 - 2.2 + 3.4	8.22909 -690 + 17
5	-15.50 +0.55 +0.44	+ 18.8 - 1.2 + 1.0	8.22219 -634 + 56
6	-14.95 +0.90 +0.35	+ 17.6 - 1.4 - 0.2	8.21585 -551 + 83
7	-14.05	+ 16.2	8.21034
Okt. 21	+ 0.81 -1.40 -0.33	+134.9 +16.6 - 8.5	8.22357 +638 + 12
22	- 0.59 -1.73 -0.09	+151.5 + 8.1 -10.2	8.22995 +650 - 35
23	- 2.32	+159.6	8.23645

Mittlere Mitternacht Berlin.

Datum	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
Okt. 23	- 2.32 -1.82 -0.09	+159.6 - 2.1 -10.2	8.23645 +615 - 35
24	- 4.14 -1.78 +0.04	+157.5 -11.8 - 9.7	8.24260 +521 - 94
25	- 5.92 -1.67 +0.11	+145.7 -20.3 - 8.5	8.24781 +367 -154
26	- 7.59 -1.59 +0.08	+125.4 -25.3 - 5.0	8.25148 +166 -201
27	- 9.18 -1.54 +0.05	+100.1 -26.7 - 1.4	8.25314 - 66 -232
28	-10.72 -1.48 +0.06	+ 73.4 -24.0 + 2.7	8.25248 -293 -227
29	-12.20 -1.36 +0.12	+ 49.4 -17.8 + 6.2	8.24955 -491 -198
30	-13.56 -1.08 +0.28	+ 31.6 -11.2 + 6.6	8.24464 -636 -145
31	-14.64 -0.63 +0.45	+ 20.4 - 4.8 + 6.4	8.23828 -714 - 78
Nov. 1	-15.27 -0.09 +0.54	+ 15.6 - 0.9 + 3.9	8.23114 -729 - 15
2	-15.36 +0.46 +0.55	+ 14.7 0.0 + 0.9	8.22385 -689 + 40
3	-14.90 +0.88 +0.42	+ 14.7 - 0.5 - 0.5	8.21696 -608 + 81
4	-14.02 +1.16 +0.28	+ 14.2 - 2.1 - 1.6	8.21088 -499 +109
5	-12.86	+ 12.1	8.20589
Nov. 19	- 2.57 -1.29	+154.8 + 2.1	8.22873 +500
20	- 3.86 -1.19 +0.10	+156.9 - 6.0 - 8.1	8.23373 +483 - 17
21	- 5.05 -1.11 +0.08	+150.9 -13.6 - 7.6	8.23856 +431 - 52
22	- 6.16 -1.05 +0.06	+137.3 -20.2 - 6.6	8.24287 +334 - 97
23	- 7.21 -1.07 -0.02	+117.1 -24.2 - 4.0	8.24621 +193 -141
24	- 8.28 -1.17 -0.10	+ 92.9 -25.5 - 1.3	8.24814 + 17 -176
25	- 9.45 -1.29 -0.12	+ 67.4 -23.2 + 2.3	8.24831 -177 -194
26	-10.74 -1.34 -0.05	+ 44.2 -17.6 + 5.6	8.24654 -361 -184
27	-12.08 -1.17 +0.17	+ 26.6 -11.1 + 6.5	8.24293 -518 -157
28	-13.25 -0.78 +0.39	+ 15.5 - 4.6 + 6.5	8.23775 -624 -106
29	-14.03 -0.27 +0.51	+ 10.9 - 0.6 + 4.0	8.23151 -675 - 51
30	-14.30 +0.31 +0.58	+ 10.3 + 0.4 + 1.0	8.22476 -666 + 9
Dez. 1	-13.99 +0.78 +0.47	+ 10.7 + 0.1 - 0.3	8.21810 -610 + 56
2	-13.21 +1.10 +0.32	+ 10.8 - 1.4 - 1.5	8.21200 -516 + 94
3	-12.11 +1.31 +0.21	+ 9.4 - 2.2 - 0.8	8.20684 -395 +121
4	-10.80 +1.45 +0.14	+ 7.2 - 2.1 + 0.1	8.20289 -260 +135
5	- 9.35	+ 5.1	8.20029
Dez. 19	- 6.65 -0.61	+133.7 -15.7	8.23653 +237
20	- 7.26 -0.54 +0.07	+118.0 -19.6 - 3.9	8.23890 +179 - 88
21	- 7.80 -0.59 -0.05	+ 98.4 -21.9 - 2.3	8.24069 + 94 - 85
22	- 8.39 -0.72 -0.13	+ 76.5 -22.1 - 0.2	8.24163 - 11 -105
23	- 9.11 -0.90 -0.18	+ 54.4 -19.8 + 2.3	8.24152 -137 -126
24	-10.01 -1.01 -0.11	+ 34.6 -15.1 + 4.7	8.24015 -270 -133
25	-11.02 -0.96 +0.05	+ 19.5 - 9.3 + 5.8	8.23745 -391 -121
26	-11.98 -0.67 +0.29	+ 10.2 - 3.9 + 5.4	8.23354 -491 -100
27	-12.65 -0.21 +0.46	+ 6.3 - 0.5 + 3.4	8.22863 -553 - 62
28	-12.86 +0.28 +0.49	+ 5.8 + 0.7 + 1.2	8.22310 -570 - 17
29	-12.58 +0.70 +0.42	+ 6.5 + 0.3 - 0.4	8.21740 -544 + 26
30	-11.88 +1.03 +0.33	+ 6.8 - 0.5 - 0.8	8.21196 -478 + 66
31	-10.85	+ 6.3	8.20718

12 ^h Mittl. Zeit	Lage gegen den Erdäquator.			
	δ	Δ	δ'	$\Delta - \delta$
Jan. 0	23 22.03 0.85	268 37.96 31.80	356 8.49 0.07	3 32.46 0.05
	10 23 21.18 0.85	268 6.16 31.83	356 8.56 0.08	3 32.41 0.06
	20 23 20.33 0.85	267 34.33 31.85	356 8.64 0.10	3 32.35 0.08
Febr. 9	23 19.48 0.84	267 2.48 31.88	356 8.74 0.12	3 32.27 0.10
	19 23 18.64 0.85	266 30.60 31.90	356 8.86 0.14	3 32.17 0.12
	19 23 17.79 0.84	265 58.70 31.91	356 9.00 0.16	3 32.05 0.13
März 1	23 16.95 0.85	265 26.79 31.93	356 9.16 0.18	3 31.92 0.16
	11 23 16.10 0.84	264 54.86 31.95	356 9.34 0.20	3 31.76 0.17
	21 23 15.26 0.85	264 22.91 31.97	356 9.54 0.22	3 31.59 0.19
April 10	23 14.41 0.84	263 50.94 31.99	356 9.76 0.24	3 31.40 0.21
	10 23 13.57 0.85	263 18.95 32.01	356 10.00 0.26	3 31.19 0.23
	20 23 12.72 0.84	262 46.94 32.02	356 10.26 0.29	3 30.96 0.25
Mai 30	23 11.88 0.85	262 14.92 32.04	356 10.55 0.31	3 30.71 0.27
	10 23 11.03 0.84	261 42.88 32.05	356 10.86 0.32	3 30.44 0.28
	20 23 10.19 0.84	261 10.83 32.07	356 11.18 0.34	3 30.16 0.30
Juni 30	23 9.35 0.84	260 38.76 32.08	356 11.52 0.36	3 29.86 0.32
	9 23 8.51 0.84	260 6.68 32.10	356 11.88 0.38	3 29.54 0.34
	19 23 7.67 0.83	259 34.58 32.13	356 12.26 0.40	3 29.20 0.36
Juli 29	23 6.84 0.84	259 2.45 32.15	356 12.66 0.42	3 28.84 0.38
	9 23 6.00 0.83	258 30.30 32.16	356 13.08 0.44	3 28.46 0.39
	19 23 5.17 0.83	257 58.14 32.18	356 13.52 0.46	3 28.07 0.42
Aug. 29	23 4.34 0.82	257 25.96 32.20	356 13.98 0.48	3 27.65 0.43
	8 23 3.52 0.83	256 53.76 32.22	356 14.46 0.50	3 27.22 0.45
	18 23 2.69 0.82	256 21.54 32.25	356 14.96 0.53	3 26.77 0.47
Sept. 28	23 1.87 0.82	255 49.29 32.27	356 15.49 0.55	3 26.30 0.49
	7 23 1.05 0.82	255 17.02 32.29	356 16.04 0.56	3 25.81 0.51
	17 23 0.23 0.82	254 44.73 32.31	356 16.60 0.58	3 25.30 0.52
Okt. 27	22 59.41 0.81	254 12.42 32.32	356 17.18 0.61	3 24.78 0.55
	7 22 58.60 0.82	253 40.10 32.34	356 17.79 0.63	3 24.23 0.56
	17 22 57.78 0.81	253 7.76 32.36	356 18.42 0.64	3 23.67 0.58
Nov. 27	22 56.97 0.82	252 35.40 32.37	356 19.06 0.66	3 23.09 0.60
	6 22 56.15 0.81	252 3.03 32.39	356 19.72 0.68	3 22.49 0.62
	16 22 55.34 0.81	251 30.64 32.40	356 20.40 0.70	3 21.87 0.64
Dez. 26	22 54.53 0.80	250 58.24 32.42	356 21.10 0.72	3 21.23 0.65
	6 22 53.73 0.80	250 25.82 32.43	356 21.82 0.74	3 20.58 0.67
	16 22 52.93 0.80	249 53.39 32.45	356 22.56 0.77	3 19.91 0.69
26	22 52.13 0.79	249 20.94 32.47	356 23.33 0.79	3 19.22 0.71
	36 22 51.34 0.80	248 48.47 32.47	356 24.12 0.79	3 18.51 0.71

J ^b Mittl. Zeit	Aufst. Knoten der Mondbahn	Mittlere Länge des Mondes	Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit					
			^a 1	2	3	4	5	6
Jan. 0	85° 5' 46.7	27° 21' 38.6	13 10 35.0	1	0 32.9	31	17 1.2	
10	84 34 0.4	159 7 28.9	26 21 10.1	2	1 5.9	32	17 34.1	
20	84 2 14.1	290 53 19.2	39 31 45.1	3	1 38.8	33	18 7.1	
30	83 30 27.7	62 39 9.5	52 42 20.1	4	2 11.8	34	18 40.0	
Febr. 9	82 58 41.4	194 24 59.8	65 52 55.1	5	2 44.7	35	19 12.9	
19	82 26 55.0	326 10 50.0	79 3 30.2	6	3 17.6	36	19 45.9	
März 1	81 55 8.7	97 56 40.3	92 14 5.2	7	3 50.6	37	20 18.8	
11	81 23 22.3	229 42 30.6	105 24 40.2	8	4 23.5	38	20 51.8	
21	80 51 36.0	1 28 20.9	118 35 15.2	9	4 56.5	39	21 24.7	
31	80 19 49.6	133 14 11.2	131 45 50.3	10	5 29.4	40	21 57.7	
April 10	79 48 3.3	265 0 1.5		11	6 2.4	41	22 30.6	
20	79 16 17.0	36 45 51.8		12	6 35.3	42	23 3.5	
30	78 44 30.6	168 31 42.1		13	7 8.2	43	23 36.5	
Mai 10	78 12 44.3	300 17 32.4	0 32 56.5	14	7 41.2	44	24 9.4	
20	77 40 57.9	72 3 22.7	1 5 52.9	15	8 14.1	45	24 42.3	
30	77 9 11.6	203 49 12.9	1 38 49.4	16	8 47.1	46	25 15.3	
Juni 9	76 37 25.3	335 35 3.2	2 11 45.8	17	9 20.0	47	25 48.2	
19	76 5 38.9	107 20 53.5	2 44 42.3	18	9 52.9	48	26 21.2	
29	75 33 52.6	239 6 43.8	3 17 38.8	19	10 25.9	49	26 54.1	
Juli 9	75 2 6.2	10 52 34.1	3 50 35.2	20	10 58.8	50	27 27.1	
19	74 30 19.9	142 38 24.4	4 23 31.7	21	11 31.8	51	28 0.0	
29	73 58 33.5	274 24 14.7	4 56 28.1	22	12 4.7	52	28 32.9	
Aug. 8	73 26 47.2	46 10 5.0	5 29 24.6	23	12 37.6	53	29 5.9	
18	72 55 0.8	177 55 55.3	6 2 21.1	24	13 10.6	54	29 38.8	
28	72 23 14.5	309 41 45.6	6 35 17.5	25	13 43.5	55	30 11.7	
Sept. 7	71 51 28.1	81 27 35.9	7 8 14.0	26	14 16.5	56	30 44.7	
17	71 19 41.8	213 13 26.2	7 41 10.4	27	14 49.4	57	31 17.6	
27	70 47 55.4	344 59 16.5	8 14 6.9	28	15 22.3	58	31 50.6	
Okt. 7	70 16 9.1	116 45 6.8	8 47 3.4	29	15 55.3	59	32 23.5	
17	69 44 22.7	248 30 57.1	9 19 59.8	30	16 28.2	60	32 56.5	
27	69 12 36.4	20 16 47.4	9 52 56.3					
Nov. 6	68 40 50.1	152 2 37.7		19	10 25 52.7	10°	5.5	
16	68 9 3.7	283 48 28.0		20	10 58 49.2	20	11.0	
26	67 37 17.4	55 34 18.3		21	11 31 45.6	30	16.5	
Dez. 6	67 5 31.0	187 20 8.6		22	12 4 42.1	40	22.0	
16	66 33 44.7	319 5 58.8		23	12 37 38.5	50	27.5	
26	66 1 58.4	90 51 49.1		24	13 10 35.0	60	32.9	
36	65 30 12.0	222 37 39.4						

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND		Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.			Unterg.	Aufg.	Aufg.	Unterg.
Jan.	1	3 ^h 54 ^m	20 ^h 13 ^m	0 ^h 56 ^m	15 ^h 33 ^m	Febr.	8	4 ^h 56 ^m	19 ^h 31 ^m	8 ^h 17 ^m	21 ^h 19 ^m
	2	3 55	20 13	1 17	16 51		9	4 58	19 29	9 25	21 33
	3	3 56	20 13	1 42	18 7		10	5 0	19 27	10 33	21 48
	4	3 57	20 13	2 14	19 15		11	5 2	19 26	11 42	22 3
	5	3 58	20 12	2 56	20 13		12	5 4	19 24	12 54	22 22
	6	4 0	20 12	3 48	21 0		13	5 6	19 22	14 8	22 46
	7	4 1	20 11	4 48	21 36		14	5 8	19 20	15 23	23 18
	8	4 2	20 11	5 54	22 4		15	5 10	19 18	16 35	—
	9	4 4	20 10	7 3	22 26					Unterg.	Aufg.
	10	4 5	20 10	8 12	22 44						
	11	4 7	20 9	9 21	22 59		16	5 12	19 16	0 2	17 40
	12	4 8	20 8	10 29	23 13		17	5 14	19 14	1 1	18 33
	13	4 10	20 7	11 37	23 27		18	5 16	19 12	2 16	19 13
	14	4 11	20 7	12 46	23 42		19	5 17	19 10	3 42	19 44
	15	4 13	20 6	13 57	—		20	5 19	19 7	5 13	20 8
				Unterg.	Aufg.		21	5 21	19 5	6 45	20 28
	16	4 14	20 5	0 0	15 12		22	5 23	19 3	8 14	20 46
	17	4 16	20 4	0 21	16 29		23	5 25	19 1	9 41	21 5
	18	4 18	20 3	0 49	17 45		24	5 27	18 59	11 6	21 25
	19	4 19	20 2	1 27	18 57		25	5 29	18 57	12 28	21 48
	20	4 21	20 0	2 20	19 57		26	5 30	18 55	13 47	22 16
	21	4 23	19 59	3 28	20 44		27	5 32	18 52	15 0	22 52
	22	4 25	19 58	4 50	21 19	März	1	5 34	18 50	16 4	23 37
	23	4 27	19 57	6 19	21 46		2	5 36	18 48	16 57	—
	24	4 28	19 55	7 48	22 7					Aufg.	Unterg.
	25	4 30	19 54	9 15	22 26		2	5 38	18 46	0 31	17 39
	26	4 32	19 53	10 40	22 44		3	5 40	18 43	1 33	18 11
	27	4 34	19 51	12 2	23 2		4	5 42	18 41	2 40	18 36
	28	4 36	19 50	13 23	23 22		5	5 43	18 39	3 49	18 55
	29	4 37	19 48	14 41	23 46		6	5 45	18 36	4 58	19 12
	30	4 39	19 47	15 57	—		7	5 47	18 34	6 7	19 27
				Aufg.	Unterg.		8	5 49	18 32	7 15	19 40
	31	4 41	19 45	0 15	17 7		9	5 51	18 30	8 23	19 54
Febr.	1	4 43	19 43	0 53	18 8		10	5 53	18 27	9 32	20 9
	2	4 45	19 42	1 41	18 58		11	5 54	18 25	10 43	20 26
	3	4 47	19 40	2 38	19 38		12	5 56	18 23	11 56	20 47
	4	4 49	19 38	3 42	20 7		13	5 58	18 20	13 9	21 14
	5	4 51	19 37	4 50	20 30		14	6 0	18 18	14 21	21 52
	6	4 52	19 35	6 0	20 49		15	6 1	18 16	15 27	22 42
	7	4 54	19 33	7 9	21 5		16	6 3	18 13	16 23	23 48
							17	6 5	18 11	17 8	—

Meridian und Polhöhe von Berlin.

Datum	SONNE		MOND		Datum	SONNE		MOND		
	Unterg.	Aufg.	Unterg.	Aufg.		Unterg.	Aufg.	Unterg.	Aufg.	
März 18	6 ^h 7 ^m	18 ^h 9 ^m	1 ^h 8 ^m	17 ^h 42 ^m	April 25	7 ^h 13 ^m	16 ^h 42 ^m	13 ^h 39 ^m	21 ^h 9 ^m	
19	6 9	18 6	2 36	18 8		26	7 15	16 40	14 18	22 15
20	6 10	18 4	4 7	18 29		27	7 16	16 38	14 47	23 25
21	6 12	18 1	5 38	18 48		28	7 18	16 36	15 10	—
22	6 14	17 59	7 8	19 7					Aufg.	Unterg.
23	6 16	17 57	8 37	19 26					0 35	15 28
24	6 17	17 54	10 4	19 47		29	7 20	16 34	1 44	15 43
25	6 19	17 52	11 28	20 14		30	7 22	16 32	2 53	15 57
26	6 21	17 50	12 47	20 47		Mai 1	7 23	16 30	4 2	16 10
27	6 23	17 47	13 57	21 30			2	7 25	16 28	5 11	16 23
28	6 24	17 45	14 55	22 22	3		7 27	16 26	6 22	16 38
29	6 26	17 43	15 41	23 23	4		7 28	16 24	7 35	16 56
30	6 28	17 40	16 16	—	5		7 30	16 22	8 49	17 19
			Aufg.	Unterg.	6		7 32	16 21	10 4	17 49
31	6 30	17 38	0 30	16 42	7		7 33	16 19	11 15	18 30
April 1	6 31	17 36	1 39	17 3	8		7 35	16 17	12 17	19 25
2	6 33	17 33	2 48	17 20	9		7 37	16 15	13 7	20 33
3	6 35	17 31	3 57	17 35	10		7 38	16 13	13 45	21 51
4	6 37	17 29	5 5	17 48	11	7 40	16 12	14 14	23 15	
5	6 38	17 26	6 14	18 2	12	7 41	16 10	14 37	—	
6	6 40	17 24	7 23	18 16	13	7 43	16 9	Unterg.	Aufg.	
7	6 42	17 22	8 34	18 32				0 41	14 56	
8	6 43	17 19	9 47	18 51	14	7 45	16 7	2 7	15 14	
9	6 45	17 17	11 0	19 16	15	7 46	16 5	3 33	15 31	
10	6 47	17 15	12 13	19 49	16	7 48	16 4	5 0	15 49	
11	6 49	17 13	13 21	20 34	17	7 49	16 3	6 27	16 10	
12	6 50	17 10	14 19	21 33	18	7 51	16 1	7 54	16 37	
13	6 52	17 8	15 6	22 45	19	7 52	16 0	9 16	17 11	
14	6 54	17 6	15 42	—	20	7 54	15 58	10 29	17 56	
			Unterg.	Aufg.	21	7 55	15 57	11 29	18 53	
15	6 56	17 4	0 8	16 10	22	7 57	15 56	12 16	19 58	
16	6 57	17 1	1 35	16 32	23	7 58	15 54	12 50	21 8	
17	6 59	16 59	3 4	16 51	24	7 59	15 53	13 15	22 19	
18	7 1	16 57	4 33	17 9	25	8 1	15 52	13 34	23 30	
19	7 3	16 55	6 2	17 27	26	8 2	15 51	13 50	—	
20	7 4	16 53	7 31	17 47	27	8 4	15 50	Aufg.	Unterg.	
21	7 6	16 51	8 58	18 11				0 39	14 4	
22	7 8	16 48	10 23	18 41	28	8 5	15 49	1 47	14 17	
23	7 9	16 46	11 40	19 20	29	8 6	15 48	2 56	14 31	
24	7 11	16 44	12 46	20 10	30	8 7	15 47			

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND		Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.			Unterg.	Aufg.	Aufg.	Unterg.
Mai	31	8 ^h 9 ^m	15 ^h 46 ^m	4 ^h 6 ^m	14 ^h 45 ^m	Juli	8	8 ^h 20 ^m	15 ^h 50 ^m	11 ^h 28 ^m	23 ^h 4 ^m
Juni	1	8 10	15 45	5 19	15 1		9	8 20	15 51	11 44	—
	2	8 11	15 44	6 33	15 22					Unterg.	Aufg.
	3	8 12	15 43	7 49	15 49					0 27	12 1
	4	8 13	15 43	9 3	16 27	10	8 19	15 52	1 50	12 19	
	5	8 14	15 42	10 10	17 18	11	8 18	15 53	3 14	12 40	
	6	8 15	15 42	11 5	18 23	12	8 17	15 54	4 36	13 7	
	7	8 16	15 41	11 48	19 39	13	8 16	15 55	5 54	13 42	
	8	8 17	15 41	12 20	21 2	14	8 15	15 56	7 3	14 28	
	9	8 18	15 40	12 44	22 27	15	8 14	15 58	8 1	15 25	
	10	8 18	15 40	13 3	23 52	16	8 13	15 59	8 45	16 32	
	11	8 19	15 39	13 21	—	17	8 12	16 0	9 17	17 44	
				Unterg.	Aufg.	18	8 11	16 1	9 42	18 56	
				1 16	13 37	19	8 10	16 3	10 1	20 7	
	12	8 20	15 39	2 40	13 54	20	8 9	16 4	10 17	21 17	
	13	8 21	15 39	4 4	14 13	21	8 7	16 6	10 30	22 25	
	14	8 21	15 39	5 29	14 37	22	8 6	16 7	10 43	23 34	
	15	8 22	15 39	6 52	15 7	23	8 5	16 8	10 56	—	
	16	8 22	15 39	8 9	15 46	24	8 3	16 10		Aufg.	Unterg.
	17	8 23	15 39	9 15	16 37				0 43	11 10	
	18	8 23	15 39	10 8	17 39	25	8 2	16 11	1 54	11 27	
	19	8 23	15 39	10 48	18 49	26	8 0	16 13	3 8	11 48	
	20	8 24	15 39	11 17	20 1	27	7 59	16 14	4 23	12 16	
	21	8 24	15 39	11 39	21 13	28	7 57	16 16	5 36	12 56	
	22	8 24	15 39	11 56	22 23	29	7 56	16 17	6 42	13 50	
	23	8 24	15 40	12 11	23 32	30	7 54	16 19	7 37	15 0	
	24	8 24	15 40	12 24	—	31	7 53	16 20	8 19	16 21	
	25	8 24	15 40			Aug.	1	7 51	16 22	8 50	17 50
				Aufg.	Unterg.		2	7 49	16 23	9 14	19 19
	26	8 24	15 41	0 40	12 37		3	7 47	16 25	9 33	20 47
	27	8 24	15 41	1 49	12 51		4	7 46	16 27	9 50	22 13
	28	8 24	15 42	3 0	13 6		5	7 44	16 28	10 7	23 38
	29	8 24	15 42	4 13	13 25		6	7 42	16 30	10 24	—
	30	8 24	15 43	5 29	13 49		7	7 40	16 31		Unterg.
Juli	1	8 24	15 44	6 44	14 22					1 2	10 44
	2	8 23	15 44	7 55	15 7		8	7 38	16 33	2 25	11 9
	3	8 23	15 45	8 57	16 8		9	7 36	16 35	3 44	11 41
	4	8 22	15 46	9 46	17 23	10	7 35	16 36	4 55	12 23	
	5	8 22	15 47	10 22	18 47	11	7 33	16 38	5 56	13 17	
	6	8 21	15 48	10 49	20 13						
	7	8 21	15 49	11 10	21 39		12	7 31	16 39		

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND		Datum		SONNE		MOND	
		Unterg.	Aufg.	Unterg.	Aufg.			Unterg.	Aufg.	Unterg.	Aufg.
Aug. 13		7 ^h 29 ^m	16 ^h 41 ^m	6 ^h 43 ^m	14 ^h 20 ^m	Sept. 20		6 ^h 3 ^m	17 ^h 45 ^m	8 ^h 14 ^m	—
14		7 27	16 43	7 19	15 30					Aufg.	Unterg.
15		7 25	16 45	7 46	16 42						
16		7 23	16 46	8 6	17 53	21	6 1	17 46	1 4	8 42	
17		7 21	16 48	8 23	19 4	22	5 58	17 48	2 13	9 22	
18		7 19	16 50	8 37	20 13	23	5 56	17 50	3 14	10 15	
19		7 16	16 51	8 50	21 21	24	5 54	17 51	4 5	11 23	
20		7 14	16 53	9 2	22 29	25	5 51	17 53	4 44	12 43	
21		7 12	16 55	9 16	23 39	26	5 49	17 55	5 14	14 11	
22		7 10	16 56	9 31	—	27	5 46	17 57	5 37	15 42	
						28	5 44	17 58	5 56	17 14	
				Aufg.	Unterg.	29	5 42	18 0	6 14	18 45	
23	7 8	16 58	0 51	9 50		30	5 39	18 2	6 31	20 16	
24	7 6	17 0	2 4	10 14	Okt. 1	5 37	18 3	6 49	21 47		
25	7 3	17 1	3 17	10 47	2	5 35	18 5	7 11	23 15		
26	7 1	17 3	4 25	11 32	3	5 32	18 7	7 39	—		
27	6 59	17 5	5 25	12 34							
28	6 57	17 6	6 12	13 51							
29	6 55	17 8	6 47	15 17	4	5 30	18 8	0 37	8 15		
30	6 52	17 10	7 14	16 48	5	5 28	18 10	1 47	9 2		
Sept. 31	6 50	17 11	7 36	18 19	6	5 25	18 12	2 44	10 1		
1	6 48	17 13	7 54	19 49	7	5 23	18 14	3 26	11 8		
2	6 45	17 15	8 11	21 18	8	5 21	18 15	3 57	12 19		
3	6 43	17 16	8 28	22 45	9	5 18	18 17	4 20	13 31		
4	6 41	17 18	8 48	—	10	5 16	18 19	4 38	14 42		
					11	5 14	18 21	4 53	15 52		
			Unterg.	Aufg.	12	5 12	18 23	5 6	17 1		
5	6 39	17 19	0 11	9 12	13	5 9	18 24	5 18	18 10		
6	6 36	17 21	1 34	9 41	14	5 7	18 26	5 30	19 19		
7	6 34	17 23	2 49	10 20	15	5 5	18 28	5 43	20 30		
8	6 32	17 25	3 53	11 10	16	5 3	18 30	5 59	21 42		
9	6 29	17 26	4 44	12 11	17	5 0	18 32	6 18	22 54		
10	6 27	17 28	5 23	13 19	18	4 58	18 33	6 43	—		
11	6 24	17 30	5 51	14 30							
12	6 22	17 31	6 13	15 42							
13	6 20	17 33	6 30	16 53	19	4 56	18 35	0 4	7 18		
14	6 17	17 35	6 44	18 2	20	4 54	18 37	1 8	8 5		
15	6 15	17 36	6 57	19 11	21	4 52	18 39	2 2	9 6		
16	6 13	17 38	7 10	20 19	22	4 50	18 41	2 44	10 19		
17	6 10	17 40	7 22	21 28	23	4 48	18 42	3 16	11 42		
18	6 8	17 41	7 36	22 39	24	4 46	18 44	3 40	13 9		
19	6 5	17 43	7 53	23 51	25	4 44	18 46	3 59	14 38		

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND		Datum		SONNE		MOND	
	Unterg.	Aufg.	Aufg.	Unterg.		Unterg.	Aufg.	Aufg.	Unterg.		Unterg.
Okt. 26	4 ^h 41 ^m	18 ^h 48 ^m	4 ^h 17 ^m	16 ^h 8 ^m	Nov. 29	3 ^h 50 ^m	19 ^h 48 ^m	5 ^h 29 ^m	23 ^h 16 ^m		
27	4 39	18 50	4 33	17 39	30	3 49	19 50	6 32	23 59		
28	4 37	18 51	4 51	19 11	Dez. 1	3 48	19 51	7 45	—		
29	4 35	18 53	5 10	20 43							
30	4 33	18 55	5 35	22 12						Unterg.	Aufg.
Nov. 31	4 31	18 57	6 8	23 31	2	3 47	19 52	0 29	9 0		
1	4 30	18 59	6 51	—	3	3 47	19 54	0 52	10 14		
			Unterg.	Aufg.	4	3 46	19 55	1 9	11 26		
2	4 28	19 1	0 36	7 47	5	3 46	19 57	1 23	12 36		
3	4 26	19 3	1 25	8 53	6	3 45	19 58	1 35	13 45		
4	4 24	19 5	2 1	10 5	7	3 45	19 59	1 47	14 53		
5	4 22	19 6	2 27	11 18	8	3 44	20 0	1 59	16 4		
6	4 20	19 8	2 46	12 30	9	3 44	20 1	2 12	17 16		
7	4 19	19 10	3 2	13 41	10	3 44	20 3	2 29	18 29		
8	4 17	19 12	3 15	14 50	11	3 44	20 4	2 50	19 43		
9	4 15	19 14	3 27	15 59	12	3 44	20 5	3 18	20 54		
10	4 14	19 16	3 39	17 8	13	3 44	20 6	3 57	21 55		
11	4 12	19 17	3 51	18 19	14	3 44	20 7	4 50	22 45		
12	4 10	19 19	4 6	19 31	15	3 44	20 7	5 56	23 23		
13	4 9	19 21	4 24	20 44	16	3 44	20 8	7 13	23 50		
14	4 7	19 23	4 47	21 56	17	3 44	20 9	8 36	—		
15	4 6	19 25	5 18	23 3						Aufg.	Unterg.
16	4 4	19 26	6 1	—	18	3 44	20 10	0 12	9 59		
			Aufg.	Unterg.	19	3 44	20 10	0 29	11 23		
17	4 3	19 28	0 0	6 57	20	3 45	20 11	0 45	12 47		
18	4 2	19 30	0 45	8 6	21	3 45	20 11	1 0	14 12		
19	4 0	19 32	1 19	9 25	22	3 46	20 12	1 16	15 38		
20	3 59	19 34	1 45	10 48	23	3 46	20 12	1 35	17 6		
21	3 58	19 35	2 5	12 13	24	3 47	20 13	1 58	18 33		
22	3 57	19 37	2 22	13 39	25	3 47	20 13	2 30	19 53		
23	3 55	19 39	2 38	15 6	26	3 48	20 13	3 14	21 0		
24	3 54	19 40	2 54	16 35	27	3 49	20 13	4 11	21 51		
25	3 53	19 42	3 11	18 5	28	3 50	20 14	5 20	22 28		
26	3 52	19 44	3 33	19 36	29	3 51	20 14	6 36	22 54		
27	3 51	19 45	4 1	21 2	30	3 52	20 14	7 53	23 13		
28	3 50	19 47	4 38	22 17	31	3 53	20 14	9 8	23 28		

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	19 ^h 0 ^m 22.80	+7 7.99	-24 44 14.4	+ 8 29.2	0.150939	0 ^h 22 ^m	3 37
1	19 7 30.79	7 8.11	24 35 45.2	10 1.9	0.148933	0 26	3 38
2	19 14 38.90	7 8.02	24 25 43.3	11 35.1	0.146712	0 29	3 40
3	19 21 46.92	7 7.69	24 14 8.2	13 8.9	0.144267	0 32	3 41
4	19 28 54.61	+7 7.12	24 0 59.3	+14 43.3	0.141590	0 35	3 43
5	19 36 1.73	7 6.27	-23 46 16.0	16 17.9	0.138669	0 38	3 45
6	19 43 8.00	7 5.10	23 29 58.1	17 52.5	0.135493	0 42	3 47
7	19 50 13.10	7 3.61	23 12 5.6	19 27.0	0.132050	0 45	3 49
8	19 57 16.71	7 1.74	22 52 38.6	21 1.2	0.128326	0 48	3 51
9	20 4 18.45	+6 59.42	22 31 37.4	+22 34.6	0.124307	0 51	3 54
10	20 11 17.87	6 56.64	-22 9 2.8	24 6.8	0.119975	0 54	3 56
11	20 18 14.51	6 53.32	21 44 56.0	25 37.6	0.115314	0 57	3 59
12	20 25 7.83	6 49.39	21 19 18.4	27 6.2	0.110304	I 0	4 2
13	20 31 57.22	6 44.76	20 52 12.2	28 32.2	0.104927	I 3	4 5
14	20 38 41.98	+6 39.35	20 23 40.0	+29 54.9	0.099162	I 6	4 8
15	20 45 21.33	6 33.06	-19 53 45.1	31 13.3	0.092986	I 8	4 12
16	20 51 54.39	6 25.75	19 22 31.8	32 26.5	0.086377	I 11	4 15
17	20 58 20.14	6 17.28	18 50 5.3	33 33.3	0.079312	I 13	4 19
18	21 4 37.42	6 7.51	18 16 32.0	34 32.6	0.071769	I 16	4 22
19	21 10 44.93	+5 56.27	17 41 59.4	+35 22.8	0.063724	I 18	4 26
20	21 16 41.20	5 43.36	-17 6 36.6	36 2.2	0.055158	I 20	4 29
21	21 22 24.56	5 28.60	16 30 34.4	36 29.0	0.046053	I 22	4 33
22	21 27 53.16	5 11.79	15 54 5.4	36 41.4	0.036394	I 23	4 37
23	21 33 4.95	4 52.72	15 17 24.0	36 37.3	0.026172	I 24	4 41
24	21 37 57.67	+4 31.20	14 40 46.7	+36 14.4	0.015386	I 25	4 44
25	21 42 28.87	4 7.07	-14 4 32.3	35 30.8	0.004044	I 26	4 48
26	21 46 35.94	3 40.21	13 29 1.5	34 24.4	9.992165	I 26	4 51
27	21 50 16.15	3 10.54	12 54 37.1	32 53.5	9.979783	I 26	4 54
28	21 53 26.69	2 38.09	12 21 43.6	30 56.8	9.966949	I 25	4 57
29	21 56 4.78	+2 2.97	11 50 46.8	+28 33.6	9.953732	I 24	5 0
30	21 58 7.75	1 25.43	-11 22 13.2	25 43.7	9.940222	I 22	5 3
31	21 59 33.18	0 45.86	10 56 29.5	22 27.9	9.926532	I 19	5 5
Febr. 1	22 0 19.04	+0 4.85	10 34 1.6	18 48.5	9.912797	I 16	5 7
2	22 0 23.89	-0 36.89	10 15 13.1	14 48.4	9.899175	I 12	5 9
3	21 59 47.00	-1 18.43	9 10 24.7	+10 32.0	9.885844	I 8	5 11
4	21 58 28.57	1 58.72	- 9 49 52.7	6 5.1	9.872995	I 3	5 12
5	21 56 29.85	2 36.60	9 43 47.6	+ 1 34.5	9.860831	0 57	5 12
6	21 53 53.25	3 10.87	9 42 13.1	- 2 52.5	9.849556	0 50	5 12
7	21 50 42.38	3 40.34	9 45 5.6	7 7.9	9.839365	0 43	5 12
8	21 47 2.04		9 52 13.5		9.830437	0 35	5 11

Wahrer geozentrischer Ort.

o ^b Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Febr. 7	21 ^h 50 ^m 42.38	-3 ^m 40.34	- 9 45 5.6	- 7 7.9	9.839365	0 43	5 12
8	21 47 2.04	4 3.99	9 52 13.5	11 3.9	9.830437	0 35	5 11
9	21 42 58.05	4 21.02	10 3 17.4	14 33.4	9.822921	0 27	5 10
10	21 38 37.03	4 30.91	10 17 50.8	17 31.1	9.816926	0 19	5 9
11	21 34 6.12	-4 33.56	10 35 21.9	-19 53.2	9.812521	0 11	5 7
12	21 29 32.56	4 29.14	-10 55 15.1	21 38.1	9.809725	0 2	5 6
13	21 25 3.42	4 18.21	11 16 53.2	22 46.2	9.808511	23 54	5 4
14	21 20 45.21	4 1.59	11 39 39.4	23 19.4	9.808809	23 45	5 1
15	21 16 43.62	3 40.23	12 2 58.8	23 21.4	9.810516	23 37	4 59
16	21 13 3.39	-3 15.18	12 26 20.2	-22 56.3	9.813503	23 30	4 57
17	21 9 48.21	2 47.49	-12 49 16.5	22 8.6	9.817623	23 23	4 55
18	21 7 0.72	2 18.11	13 11 25.1	21 2.7	9.822722	23 16	4 53
19	21 4 42.61	1 47.92	13 32 27.8	19 42.8	9.828648	23 10	4 51
20	21 2 54.69	1 17.62	13 52 10.6	18 12.5	9.835254	23 4	4 49
21	21 1 37.07	-0 47.77	14 10 23.1	-16 34.7	9.842405	22 59	4 47
22	21 0 49.30	-0 18.79	-14 26 57.8	14 51.9	9.849977	22 54	4 46
23	21 0 30.51	+0 9.00	14 41 49.7	13 6.2	9.857863	22 50	4 44
24	21 0 39.51	0 35.40	14 54 55.9	11 18.7	9.865968	22 46	4 43
25	21 1 14.91	1 0.28	15 6 14.6	9 30.7	9.874212	22 43	4 42
26	21 2 15.19	+1 23.60	15 15 45.3	- 7 43.0	9.882528	22 40	4 41
27	21 3 38.79	1 45.35	-15 23 28.3	5 56.1	9.890861	22 37	4 40
28	21 5 24.14	2 5.57	15 29 24.4	4 10.3	9.899164	22 35	4 39
März 1	21 7 29.71	2 24.30	15 33 34.7	2 25.9	9.907400	22 33	4 39
2	21 9 54.01	2 41.60	15 36 0.6	- 0 43.2	9.915541	22 32	4 39
3	21 12 35.61	+2 57.58	15 36 43.8	+ 0 58.0	9.923563	22 30	4 39
4	21 15 33.19	3 12.31	-15 35 45.8	2 37.4	9.931449	22 29	4 39
5	21 18 45.50	3 25.89	15 33 8.4	4 15.3	9.939186	22 29	4 39
6	21 22 11.39	3 38.39	15 28 53.1	5 51.6	9.946764	22 28	4 39
7	21 25 49.78	3 49.91	15 23 1.5	7 26.2	9.954176	22 28	4 40
8	21 29 39.69	+4 0.52	15 15 35.3	+ 8 59.3	9.961418	22 28	4 41
9	21 33 40.21	4 10.31	-15 6 36.0	10 30.9	9.968489	22 28	4 42
10	21 37 50.52	4 19.35	14 56 5.1	12 1.1	9.975388	22 28	4 43
11	21 42 9.87	4 27.70	14 44 4.0	13 30.0	9.982115	22 28	4 44
12	21 46 37.57	4 35.43	14 30 34.0	14 57.6	9.988671	22 29	4 45
13	21 51 13.00	+4 42.60	14 15 36.4	+16 23.9	9.995059	22 29	4 47
14	21 55 55.60	4 49.26	-13 59 12.5	17 48.9	0.001282	22 30	4 49
15	22 0 44.86	4 55.47	13 41 23.6	19 12.9	0.007342	22 31	4 50
16	22 5 40.33	5 1.26	13 22 10.7	20 35.6	0.013243	22 32	4 52
17	22 10 41.59	5 6.70	13 1 35.1	21 57.3	0.018988	22 33	4 54
18	22 15 48.29		12 39 37.8		0.024581	22 34	4 56

Wahrer geozentrischer Ort.

^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen	
März	17	22 ^h 10 ^m 41.59		— 13° 1' 35.1		0.018988	22 ^h 33 ^m 4 ^s 54	
	18	22 15 48.29	+5 6.70	12 39 37.8	+21 57.3	0.024581	22 34 4 56	
	19	22 21 0.09	5 11.80	12 16 19.9	23 17.9	0.030025	22 36 4 58	
	20	22 26 16.71	5 16.62	11 51 42.4	24 37.5	0.035323	22 37 5 0	
	21	22 31 37.91	5 21.20	11 25 46.3	25 56.1	0.040479	22 38 5 3	
	22	22 37 3.48	+5 25.57	— 10 58 32.6	+27 13.7	0.045496	22 40 5 5	
	23	22 42 33.23	5 29.75	10 30 2.3	28 30.3	0.050376	22 41 5 8	
	24	22 48 7.00	5 33.77	10 0 16.4	29 45.9	0.055122	22 43 5 11	
	25	22 53 44.69	5 37.69	9 29 15.7	31 0.7	0.059736	22 45 5 13	
	26	22 59 26.20	5 41.51	8 57 1.1	32 14.6	0.064219	22 46 5 16	
	27	23 5 11.47	+5 45.27	— 8 23 33.6	+33 27.5	0.068573	22 48 5 19	
	28	23 11 0.45	5 48.98	7 48 54.1	34 39.5	0.072799	22 50 5 22	
	29	23 16 53.14	5 52.69	7 13 3.4	35 50.7	0.076896	22 52 5 26	
	30	23 22 49.54	5 56.40	6 36 2.5	37 0.9	0.080865	22 54 5 29	
	31	23 28 49.69	6 0.15	5 57 52.4	38 10.1	0.084704	22 56 5 32	
	April	1	23 34 53.63	+6 3.94	— 5 18 34.0	+39 18.4	0.088413	22 58 5 36
		2	23 41 1.44	6 7.81	4 38 8.4	40 25.6	0.091988	23 0 5 39
		3	23 47 13.21	6 11.77	3 56 36.7	41 31.7	0.095426	23 3 5 43
		4	23 53 29.05	6 15.84	3 14 0.0	42 36.7	0.098724	23 5 5 47
		5	23 59 49.08	6 20.03	2 30 19.6	43 40.4	0.101876	23 7 5 51
		6	0 6 13.45	+6 24.37	— 1 45 37.0	+44 42.6	0.104878	23 10 5 54
		7	0 12 42.32	6 28.87	0 59 53.7	45 43.3	0.107721	23 12 5 58
		8	0 19 15.85	6 33.53	— 0 13 11.4	46 42.3	0.110398	23 15 6 3
		9	0 25 54.22	6 38.37	+ 0 34 27.9	47 39.3	0.112901	23 18 6 7
		10	0 32 37.62	6 43.40	1 23 1.9	48 34.0	0.115218	23 20 6 11
		11	0 39 26.24	+6 48.62	+ 2 12 28.1	+49 26.2	0.117338	23 23 6 15
		12	0 46 20.27	6 54.03	3 2 43.6	50 15.5	0.119247	23 26 6 20
		13	0 53 19.89	6 59.62	3 53 45.1	51 1.5	0.120931	23 29 6 24
		14	1 0 25.28	7 5.39	4 45 28.8	51 43.7	0.122374	23 33 6 29
		15	1 7 36.58	7 11.30	5 37 50.2	52 21.4	0.123559	23 36 6 33
		16	1 14 53.92	+7 17.34	+ 6 30 44.4	+52 54.2	0.124466	23 39 6 38
17		1 22 17.39	7 23.47	7 24 5.7	53 21.3	0.125075	23 43 6 43	
18		1 29 47.02	7 29.63	8 17 47.6	53 41.9	0.125365	23 46 6 47	
19		1 37 22.78	7 35.76	9 11 42.7	53 55.1	0.125312	23 50 6 52	
20		1 45 4.58	7 41.80	10 5 43.0	54 0.3	0.124895	23 54 6 57	
21		1 52 52.25	+7 47.67	+ 10 59 39.3	+53 56.3	0.124090	23 57 7 2	
22		2 0 45.49	7 53.24	11 53 21.7	53 42.4	0.122874	0 1 7 7	
23		2 8 43.90	7 58.41	12 46 39.4	53 17.7	0.121225	0 5 7 13	
24		2 16 46.98	8 3.08	13 39 20.9	52 41.5	0.119124	0 9 7 18	
25		2 24 54.09	8 7.11	14 31 14.2	51 53.3	0.116552	0 14 7 23	

Wahrer geozentrischer Ort.

o ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
April 24	2 ^h 16 ^m 46 ^s .98	+8 ^m 7.11	+13° 39' 20.9	+51' 53.3	0.119124	o ^h 9 ^m	7 18 ^m
25	2 24 54.09	8 10.37	14 31 14.2	50 52.5	0.116552	o 14	7 23
26	2 33 4.46	8 12.75	15 22 6.7	49 39.2	0.113495	o 18	7 28
27	2 41 17.21	8 14.15	16 11 45.9	48 13.4	0.109942	o 22	7 33
28	2 49 31.36	+8 14.46	16 59 59.3	+46 35.6	0.105887	o 26	7 38
29	2 57 45.82	8 13.61	+17 46 34.9	44 46.5	0.101328	o 31	7 43
30	3 5 59.43	8 11.55	18 31 21.4	42 47.1	0.096268	o 35	7 48
Mai 1	3 14 10.98	8 8.27	19 14 8.5	40 38.6	0.090716	o 39	7 53
2	3 22 19.25	8 3.77	19 54 47.1	38 22.5	0.084684	o 43	7 57
3	3 30 23.02	+7 58.05	20 33 9.6	+36 0.4	0.078190	o 48	8 2
4	3 38 21.07	7 51.18	+21 9 10.0	33 33.6	0.071254	o 52	8 6
5	3 46 12.25	7 43.22	21 42 43.6	31 3.9	0.063900	o 56	8 10
6	3 53 55.47	7 34.21	22 13 47.5	28 32.6	0.056153	o 59	8 13
7	4 1 29.68	7 24.24	22 42 20.1	26 1.0	0.048041	I 3	8 17
8	4 8 53.92	+7 13.39	23 8 21.1	+23 30.4	0.039591	I 6	8 20
9	4 16 7.31	7 1.72	+23 31 51.5	21 1.7	0.030831	I 10	8 23
10	4 23 9.03	6 49.30	23 52 53.2	18 35.8	0.021790	I 13	8 26
11	4 29 58.33	6 36.19	24 11 29.0	16 13.3	0.012495	I 16	8 28
12	4 36 34.52	6 22.44	24 27 42.3	13 55.0	0.002971	I 18	8 31
13	4 42 56.96	+6 8.10	24 41 37.3	+11 41.0	9.993244	I 21	8 33
14	4 49 5.06	5 53.18	+24 53 18.3	9 31.7	9.983340	I 23	8 34
15	4 54 58.24	5 37.74	25 2 50.0	7 27.4	9.973281	I 25	8 35
16	5 0 35.98	5 21.80	25 10 17.4	5 28.1	9.963091	I 27	8 36
17	5 5 57.78	5 5.37	25 15 45.5	3 33.9	9.952793	I 28	8 37
18	5 11 3.15	+4 48.45	25 19 19.4	+1 44.8	9.942409	I 29	8 37
19	5 15 51.60	4 31.08	+25 21 4.2	+0 0.8	9.931961	I 30	8 37
20	5 20 22.68	4 13.27	25 21 5.0	-1 38.2	9.921472	I 31	8 37
21	5 24 35.95	3 55.02	25 19 26.8	3 12.2	9.910965	I 31	8 37
22	5 28 30.97	3 36.34	25 16 14.6	4 41.4	9.900465	I 31	8 37
23	5 32 7.31	+3 17.26	25 11 33.2	-6 5.9	9.889996	I 30	8 36
24	5 35 24.57	2 57.82	+25 5 27.3	7 25.8	9.879585	I 30	8 36
25	5 38 22.39	2 38.04	24 58 1.5	8 41.0	9.869260	I 29	8 35
26	5 41 0.43	2 17.96	24 49 20.5	9 51.7	9.859050	I 27	8 33
27	5 43 18.39	1 57.63	24 39 28.8	10 58.0	9.848989	I 26	8 32
28	5 45 16.02	+1 37.12	24 28 30.8	-11 59.9	9.839111	I 24	8 31
29	5 46 53.14	1 16.51	+24 16 30.9	12 57.3	9.829453	I 22	8 29
30	5 48 9.65	0 55.91	24 3 33.6	13 50.2	9.820055	I 19	8 27
31	5 49 5.56	0 35.43	23 49 43.4	14 38.6	9.810959	I 16	8 26
Juni 1	5 49 40.99	0 15.20	23 35 4.8	15 22.0	9.802210	I 13	8 24
2	5 49 56.19		23 19 42.8		9.793854	I 9	8 22

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Juni	1	5 ^h 49 ^m 40.99	+0 15.20	+23° 35' 4.8	-15 22.0	9.802210	1 ^h 13 ^m 8 ^h 24 ^m
	2	5 49 56.19	-0 4.62	23 19 42.8	16 0.4	9.793854	1 9 8 20
	3	5 49 51.57	0 23.87	23 3 42.4	16 33.6	9.785941	1 5 8 22
	4	5 49 27.70	0 42.34	22 47 8.8	17 1.1	9.778522	1 0 8 18
	5	5 48 45.36	-0 59.84	22 30 7.7	-17 22.4	9.771648	0 56 8 16
	6	5 47 45.52	1 16.15	+22 12 45.3	17 37.1	9.765371	0 51 8 13
	7	5 46 29.37	1 31.06	21 55 8.2	17 44.8	9.759740	0 46 8 11
	8	5 44 58.31	1 44.39	21 37 23.4	17 44.8	9.754805	0 40 8 9
	9	5 43 13.92	1 55.88	21 19 38.6	17 36.8	9.750610	0 35 8 7
	10	5 41 18.04	-2 5.39	21 2 1.8	-17 20.1	9.747197	0 29 8 5
	11	5 39 12.65	2 12.75	+20 44 41.7	16 54.5	9.744601	0 23 8 3
	12	5 36 59.90	2 17.86	20 27 47.2	16 19.9	9.742851	0 16 8 1
	13	5 34 42.04	2 20.62	20 11 27.3	15 36.0	9.741968	0 10 7 59
	14	5 32 21.42	2 21.00	19 55 51.3	14 42.9	9.741964	0 4 7 57
	15	5 30 0.42	-2 19.01	19 41 8.4	-13 41.1	9.742845	23 58 7 56
	16	5 27 41.41	2 14.69	+19 27 27.3	12 31.1	9.744606	23 51 7 54
	17	5 25 26.72	2 8.14	19 14 56.2	11 13.5	9.747233	23 45 7 53
	18	5 23 18.58	1 59.47	19 3 42.7	9 49.2	9.750705	23 39 7 51
	19	5 21 19.11	1 48.85	18 53 53.5	8 19.1	9.754993	23 33 7 50
	20	5 19 30.26	-1 36.46	18 45 34.4	-6 44.7	9.760061	23 27 7 49
	21	5 17 53.80	1 22.47	+18 38 49.7	5 7.0	9.765869	23 22 7 49
	22	5 16 31.33	1 7.09	18 33 42.7	3 27.2	9.772370	23 17 7 48
	23	5 15 24.24	0 50.51	18 30 15.5	1 46.5	9.779515	23 12 7 48
	24	5 14 33.73	0 32.93	18 28 29.0	-0 6.3	9.787254	23 7 7 48
	25	5 14 0.80	-0 14.51	18 28 22.7	+1 32.4	9.795536	23 2 7 48
	26	5 13 46.29	+0 4.56	+18 29 55.1	3 8.5	9.804307	22 58 7 48
	27	5 13 50.85	0 24.17	18 33 3.6	4 41.0	9.813515	22 54 7 48
	28	5 14 15.02	0 44.17	18 37 44.6	6 9.1	9.823111	22 51 7 49
	29	5 14 59.19	1 4.45	18 43 53.7	7 32.0	9.833046	22 47 7 49
	30	5 16 3.64	+1 24.94	18 51 25.7	+8 49.0	9.843274	22 45 7 50
Juli	1	5 17 28.58	1 45.54	+19 0 14.7	9 59.6	9.853750	22 42 7 51
	2	5 19 14.12	2 6.22	19 10 14.3	11 3.1	9.864432	22 40 7 52
	3	5 21 20.34	2 26.93	19 21 17.4	11 59.0	9.875280	22 38 7 53
	4	5 23 47.27	2 47.63	19 33 16.4	12 47.1	9.886257	22 37 7 55
	5	5 26 34.90	+3 8.29	19 46 3.5	+13 26.8	9.897326	22 35 7 56
	6	5 29 43.19	3 28.89	+19 59 30.3	13 57.6	9.908454	22 35 7 58
	7	5 33 12.08	3 49.43	20 13 27.9	14 19.3	9.919609	22 34 7 59
	8	5 37 1.51	4 9.88	20 27 47.2	14 31.5	9.930758	22 34 8 1
	9	5 41 11.39	4 30.21	20 42 18.7	14 33.7	9.941872	22 34 8 3
	10	5 45 41.60		20 56 52.4		9.952921	22 35 8 4

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Juli 9	5 ^h 41 ^m 11.39	+4 ^m 30.21	+20° 42' 18.7	+14 33.7	9.941872	22 ^h 34 ^m	8 ^h 3 ^m
10	5 45 41.60	4 50.42	20 56 52.4	14 25.6	9.952921	22 35	8 4
11	5 50 32.02	5 10.47	21 11 18.0	14 6.9	9.963875	22 36	8 6
12	5 55 42.49	5 30.30	21 25 24.9	13 37.0	9.974705	22 37	8 8
13	6 1 12.79	+5 49.88	21 39 1.9	+12 55.8	9.985382	22 38	8 9
14	6 7 2.67	6 9.12	+21 51 57.7	12 2.9	9.995877	22 40	8 11
15	6 13 11.79	6 27.95	22 4 0.6	10 57.9	0.006158	22 43	8 12
16	6 19 39.74	6 46.25	22 14 58.5	9 40.9	0.016196	22 45	8 14
17	6 26 25.99	7 3.90	22 24 39.4	8 11.9	0.025960	22 48	8 15
18	6 33 29.89	+7 20.75	22 32 51.3	+6 31.1	0.035419	22 51	8 16
19	6 40 50.64	7 36.66	+22 39 22.4	4 38.6	0.044541	22 54	8 17
20	6 48 27.30	7 51.44	22 44 1.0	2 35.3	0.053296	22 58	8 17
21	6 56 18.74	8 4.94	22 46 36.3	+0 22.0	0.061656	23 2	8 18
22	7 4 23.68	8 16.99	22 46 58.3	-2 0.1	0.069593	23 6	8 18
23	7 12 40.67	+8 27.44	22 44 58.2	-4 29.6	0.077081	23 10	8 17
24	7 21 8.11	8 36.19	+22 40 28.6	7 4.9	0.084099	23 15	8 17
25	7 29 44.30	8 43.12	22 33 23.7	9 43.9	0.090629	23 20	8 16
26	7 38 27.42	8 48.20	22 23 39.8	12 24.9	0.096657	23 24	8 15
27	7 47 15.62	8 51.42	22 11 14.9	15 5.8	0.102175	23 29	8 13
28	7 56 7.04	+8 52.83	21 56 9.1	-17 44.7	0.107180	23 34	8 11
29	8 4 59.87	8 52.52	+21 38 24.4	20 19.7	0.111674	23 39	8 9
30	8 13 52.39	8 50.60	21 18 4.7	22 49.4	0.115662	23 44	8 7
31	8 22 42.99	8 47.24	20 55 15.3	25 12.3	0.119157	23 49	8 4
Aug. 1	8 31 30.23	8 42.58	20 30 3.0	27 27.3	0.122173	23 54	8 1
2	8 40 12.81	+8 36.81	20 2 35.7	-29 33.8	0.124727	23 59	7 58
3	8 48 49.62	8 30.14	+19 33 1.9	31 31.1	0.126840	0 3	7 55
4	8 57 19.76	8 22.72	19 1 30.8	33 19.2	0.128534	0 8	7 51
5	9 5 42.48	8 14.71	18 28 11.6	34 57.9	0.129832	0 12	7 48
6	9 13 57.19	8 6.29	17 53 13.7	36 27.2	0.130757	0 17	7 44
7	9 22 3.48	+7 57.56	17 16 46.5	-37 47.6	0.131331	0 21	7 40
8	9 30 1.04	7 48.66	+16 38 58.9	38 59.4	0.131576	0 25	7 36
9	9 37 49.70	7 39.69	15 59 59.5	40 2.9	0.131515	0 29	7 32
10	9 45 29.39	7 30.72	15 19 56.6	40 58.7	0.131166	0 32	7 28
11	9 53 0.11	7 21.82	14 38 57.9	41 47.2	0.130548	0 36	7 24
12	10 0 21.93	+7 13.05	13 57 10.7	-42 29.0	0.129679	0 39	7 20
13	10 7 34.98	7 4.45	+13 14 41.7	43 4.4	0.128575	0 43	7 15
14	10 14 39.43	6 56.05	12 31 37.3	43 34.1	0.127250	0 46	7 11
15	10 21 35.48	6 47.87	11 48 3.2	43 58.3	0.125716	0 49	7 7
16	10 28 23.35	6 39.93	11 4 4.9	44 17.6	0.123986	0 52	7 3
17	10 35 3.28		10 19 47.3		0.122070	0 54	6 59

Wahrer geozentrischer Ort.

	^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Aug.	16	10 ^h 28 ^m 23.35	+6 ^m 39.93	+11 ^o 4 4.9	-44 17.6	0.123986	0 ^h 52 ^m	7 3
	17	10 35 3.28	6 32.22	10 19 47.3	44 32.3	0.122070	0 54	6 59
	18	10 41 35.50	6 24.77	9 35 15.0	44 42.7	0.119977	0 57	6 55
	19	10 48 0.27	6 17.57	8 50 32.3	44 49.1	0.117715	0 59	6 50
	20	10 54 17.84	+6 10.61	8 5 43.2	-44 51.9	0.115291	1 2	6 46
	21	11 0 28.45	6 3.89	+ 7 20 51.3	44 51.3	0.112711	1 4	6 42
	22	11 6 32.34	5 57.39	6 36 0.0	44 47.5	0.109979	1 6	6 38
	23	11 12 29.73	5 51.10	5 51 12.5	44 40.7	0.107100	1 8	6 34
	24	11 18 20.83	5 45.02	5 6 31.8	44 31.1	0.104077	1 10	6 30
	25	11 24 5.85	+5 39.12	4 22 0.7	-44 18.9	0.100911	1 12	6 26
	26	11 29 44.97	5 33.39	+ 3 37 41.8	44 4.0	0.097606	1 14	6 23
	27	11 35 18.36	5 27.82	2 53 37.8	43 46.8	0.094162	1 15	6 19
	28	11 40 46.18	5 22.38	2 9 51.0	43 27.2	0.090579	1 17	6 15
	29	11 46 8.56	5 17.06	1 26 23.8	43 5.4	0.086857	1 18	6 11
	30	11 51 25.62	+5 11.83	0 43 18.4	-42 41.4	0.082997	1 19	6 7
	31	11 56 37.45	5 6.69	+ 0 0 37.0	42 15.2	0.078997	1 21	6 4
Sept.	1	12 1 44.14	5 1.60	- 0 41 38.2	41 46.8	0.074854	1 22	6 0
	2	12 6 45.74	4 56.53	1 23 25.0	41 16.3	0.070567	1 23	5 56
	3	12 11 42.27	4 51.48	2 4 41.3	40 43.6	0.066134	1 24	5 53
	4	12 16 33.75	+4 46.40	2 45 24.9	-40 8.7	0.061551	1 25	5 49
	5	12 21 20.15	4 41.27	- 3 25 33.6	39 31.5	0.056816	1 26	5 46
	6	12 26 1.42	4 36.06	4 5 5.1	38 51.9	0.051924	1 26	5 42
	7	12 30 37.48	4 30.74	4 43 57.0	38 9.8	0.046871	1 27	5 39
	8	12 35 8.22	4 25.26	5 22 6.8	37 25.2	0.041653	1 28	5 36
	9	12 39 33.48	+4 19.58	5 59 32.0	-36 37.8	0.036266	1 28	5 32
	10	12 43 53.06	4 13.67	- 6 36 9.8	35 47.5	0.030705	1 29	5 29
	11	12 48 6.73	4 7.47	7 11 57.3	34 53.9	0.024965	1 29	5 26
	12	12 52 14.20	4 0.95	7 46 51.2	33 57.0	0.019042	1 29	5 23
	13	12 56 15.15	3 54.05	8 20 48.2	32 56.5	0.012930	1 29	5 20
	14	13 0 9.20	+3 46.69	8 53 44.7	-31 51.9	0.006626	1 29	5 17
	15	13 3 55.89	3 38.83	- 9 25 36.6	30 43.0	0.000125	1 29	5 14
	16	13 7 34.72	3 30.39	9 56 19.6	29 29.3	9.993423	1 29	5 11
	17	13 11 5.11	3 21.30	10 25 48.9	28 10.5	9.986517	1 28	5 8
	18	13 14 26.41	3 11.48	10 53 59.4	26 45.8	9.979405	1 28	5 6
	19	13 17 37.89	+3 0.84	11 20 45.2	-25 14.8	9.972086	1 27	5 3
	20	13 20 38.73	2 49.28	-11 46 0.0	23 36.8	9.964561	1 26	5 1
	21	13 23 28.01	2 36.73	12 9 36.8	21 51.1	9.956833	1 25	4 59
	22	13 26 4.74	2 23.07	12 31 27.9	19 56.8	9.948907	1 23	4 57
	23	13 28 27.81	2 8.21	12 51 24.7	17 53.1	9.940792	1 22	4 55
	24	13 30 36.02		13 9 17.8		9.932500	1 20	4 53

Wahrer geozentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Sept. 23	$13^{\text{h}} 28^{\text{m}} 27.81$	$+2^{\text{m}} 8.21$	$-12^{\circ} 51' 24.7$	$-17' 53.1$	9.940792	$1^{\text{h}} 22^{\text{m}}$	$4^{\text{h}} 55^{\text{m}}$
24	$13 30 36.02$	$1 52.06$	$13 9 17.8$	$15 39.0$	9.932500	$1 20$	$4 53$
25	$13 32 28.08$	$1 34.53$	$13 24 56.8$	$13 13.4$	9.924048	$1 18$	$4 52$
26	$13 34 2.61$	$1 15.55$	$13 38 10.2$	$10 35.5$	9.915462	$1 16$	$4 50$
27	$13 35 18.16$	$+0 55.08$	$13 48 45.7$	$-7 44.1$	9.906772	$1 13$	$4 49$
28	$13 36 13.24$	$0 33.08$	$-13 56 29.8$	$4 38.3$	9.898017	$1 10$	$4 48$
29	$13 36 46.32$	$+0 9.61$	$14 1 8.1$	$-1 17.5$	9.889248	$1 6$	$4 48$
30	$13 36 55.93$	$-0 15.24$	$14 2 25.6$	$+2 18.9$	9.880527	$1 3$	$4 48$
Okt. 1	$13 36 40.69$	$0 41.29$	$14 0 6.7$	$6 10.6$	9.871931	$\circ 59$	$4 48$
2	$13 35 59.40$	$-1 8.25$	$13 53 56.1$	$+10 16.9$	9.863550	$\circ 54$	$4 49$
3	$13 34 51.15$	$1 35.73$	$-13 43 39.2$	$14 36.0$	9.855493	$\circ 49$	$4 50$
4	$13 33 15.42$	$2 3.17$	$13 29 3.2$	$19 4.8$	9.847884	$\circ 43$	$4 51$
5	$13 31 12.25$	$2 29.86$	$13 9 58.4$	$23 38.5$	9.840866	$\circ 37$	$4 53$
6	$13 28 42.39$	$2 54.97$	$12 46 19.9$	$28 10.7$	9.834597	$\circ 31$	$4 55$
7	$13 25 47.42$	$-3 17.52$	$12 18 9.2$	$+32 33.0$	9.829244	$\circ 24$	$4 58$
8	$13 22 29.90$	$3 36.49$	$-11 45 36.2$	$36 35.2$	9.824983	$\circ 17$	$5 1$
9	$13 18 53.41$	$3 50.81$	$11 9 1.0$	$40 6.0$	9.821987	$\circ 9$	$5 4$
10	$13 15 2.60$	$3 59.51$	$10 28 55.0$	$42 53.8$	9.820415	$\circ 1$	$5 8$
11	$13 11 3.09$	$4 1.81$	$9 46 1.2$	$44 47.4$	9.820402	$23 53$	$5 12$
12	$13 7 1.28$	$-3 57.21$	$9 1 13.8$	$+45 38.0$	9.822046	$23 45$	$5 16$
13	$13 3 4.07$	$3 45.54$	$-8 15 35.8$	$45 19.8$	9.825401	$23 38$	$5 20$
14	$12 59 18.53$	$3 27.03$	$7 30 16.0$	$43 51.0$	9.830467	$23 30$	$5 24$
15	$12 55 51.50$	$3 2.29$	$6 46 25.0$	$41 14.5$	9.837186	$23 23$	$5 28$
16	$12 52 49.21$	$2 32.24$	$6 5 10.5$	$37 36.7$	9.845446	$23 16$	$5 32$
17	$12 50 16.97$	$-1 58.00$	$5 27 33.8$	$+33 7.7$	9.855092	$23 9$	$5 35$
18	$12 48 18.97$	$1 20.84$	$-4 54 26.1$	$27 59.5$	9.865932	$23 3$	$5 38$
19	$12 46 58.13$	$0 42.02$	$4 26 26.6$	$22 24.6$	9.877751	$22 58$	$5 40$
20	$12 46 16.11$	$-0 2.72$	$4 4 2.0$	$16 35.6$	9.890324	$22 53$	$5 42$
21	$12 46 13.39$	$+0 36.01$	$3 47 26.4$	$10 43.8$	9.903428	$22 49$	$5 44$
22	$12 46 49.40$	$+1 13.31$	$3 36 42.6$	$+4 58.6$	9.916853	$22 46$	$5 45$
23	$12 48 2.71$	$1 48.54$	$-3 31 44.0$	$-0 32.3$	9.930409	$22 43$	$5 45$
24	$12 49 51.25$	$2 21.25$	$3 32 16.3$	$5 43.2$	9.943928	$22 41$	$5 45$
25	$12 52 12.50$	$2 51.17$	$3 37 59.5$	$10 30.1$	9.957268	$22 39$	$5 45$
26	$12 55 3.67$	$3 18.17$	$3 48 29.6$	$14 50.8$	9.970314	$22 38$	$5 44$
27	$12 58 21.84$	$+3 42.27$	$4 3 20.4$	$-18 44.3$	9.982975	$22 38$	$5 42$
28	$13 2 4.11$	$4 3.55$	$-4 22 4.7$	$22 10.6$	9.995183	$22 37$	$5 41$
29	$13 6 7.66$	$4 22.21$	$4 44 15.3$	$25 10.7$	0.006890	$22 38$	$5 39$
30	$13 10 29.87$	$4 38.44$	$5 9 26.0$	$27 45.7$	0.018064	$22 38$	$5 37$
31	$13 15 8.31$	$4 52.47$	$5 37 11.7$	$29 57.2$	0.028688	$22 39$	$5 34$
Nov. 1	$13 20 0.78$		$6 7 8.9$		0.038757	$22 40$	$5 32$

Wahrer geozentrischer Ort.

\circ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Okt. 31	13 ^h 15 ^m 8.31		— 5° 37' 11.7"		0.028688	22 ^h 39 ^m	5 ^h 34 ^m
Nov. 1	13 20 0.78	+4 52.47	6 7 8.9	—29 57.2	0.038757	22 40	5 32
2	13 25 5.33	5 45.55	6 38 56.2	31 47.3	0.048274	22 41	5 29
3	13 30 20.24	5 14.91	7 12 14.1	33 17.9	0.057250	22 42	5 26
4	13 35 44.01	5 23.77	7 46 44.9	34 30.8	0.065699	22 44	5 23
5	13 41 15.37	+5 31.36	— 8 22 12.9	—35 28.0	0.073638	22 45	5 19
6	13 46 53.21	5 37.84	8 58 24.1	36 11.2	0.081089	22 47	5 16
7	13 52 36.60	5 43.39	9 35 6.1	36 42.0	0.088074	22 49	5 13
8	13 58 24.77	5 48.17	10 12 7.8	37 1.7	0.094613	22 50	5 10
9	14 4 17.06	5 52.29	10 49 19.6	37 11.8	0.100730	22 52	5 6
10	14 10 12.93	+5 55.87	—11 26 33.0	—37 13.4	0.106446	22 54	5 3
11	14 16 11.96	5 59.03	12 3 40.5	37 7.5	0.111782	22 56	4 59
12	14 22 13.78	6 1.82	12 40 35.5	36 55.0	0.116758	22 58	4 56
13	14 28 18.10	6 4.32	13 17 12.2	36 36.7	0.121392	23 1	4 52
14	14 34 24.69	6 6.59	13 53 25.3	36 13.1	0.125701	23 3	4 49
15	14 40 33.38	+6 8.69	—14 29 10.3	—35 45.0	0.129703	23 5	4 45
16	14 46 44.03	6 10.65	15 4 23.3	35 13.0	0.133413	23 7	4 42
17	14 52 56.53	6 12.50	15 39 0.5	34 37.2	0.136846	23 9	4 38
18	14 59 10.81	6 14.28	16 12 58.6	33 58.1	0.140014	23 12	4 35
19	15 5 26.82	6 16.01	16 46 14.7	33 16.1	0.142929	23 14	4 32
20	15 11 44.53	+6 17.71	—17 18 46.2	—32 31.5	0.145601	23 16	4 28
21	15 18 3.93	6 19.40	17 50 30.5	31 44.3	0.148041	23 19	4 25
22	15 24 25.01	6 21.08	18 21 25.5	30 55.0	0.150259	23 21	4 22
23	15 30 47.77	6 22.76	18 51 29.0	30 3.5	0.152263	23 24	4 18
24	15 37 12.23	6 24.46	19 20 39.0	29 10.0	0.154060	23 26	4 15
25	15 43 38.40	+6 26.17	—19 48 53.7	—28 14.7	0.155657	23 29	4 12
26	15 50 6.31	6 27.91	20 16 11.4	27 17.7	0.157059	23 31	4 8
27	15 56 35.99	6 29.68	20 42 30.4	26 19.0	0.158272	23 34	4 6
28	16 3 7.44	6 31.45	21 7 49.0	25 18.6	0.159300	23 37	4 4
29	16 9 40.69	6 33.25	21 32 5.8	24 16.8	0.160147	23 39	4 1
30	16 16 15.76	+6 35.07	—21 55 19.1	—23 13.3	0.160817	23 42	3 58
Dez. 1	16 22 52.65	6 36.89	22 17 27.5	22 8.4	0.161311	23 44	3 55
2	16 29 31.37	6 38.72	22 38 29.5	21 2.0	0.161632	23 47	3 53
3	16 36 11.92	6 40.55	22 58 23.6	19 54.1	0.161782	23 50	3 51
4	16 42 54.29	6 42.37	23 17 8.5	18 44.9	0.161761	23 52	3 48
5	16 49 38.47	+6 44.18	—23 34 42.6	—17 34.1	0.161570	23 55	3 46
6	16 56 24.42	6 45.95	23 51 4.5	16 21.9	0.161208	23 58	3 44
7	17 3 12.12	6 47.70	24 6 12.8	15 8.3	0.160675	0 1	3 42
8	17 10 1.51	6 49.39	24 20 6.1	13 53.3	0.159970	0 4	3 41
9	17 16 52.54	6 51.03	24 32 43.0	12 36.9	0.159091	0 7	3 39

Wahrer geozentrischer Ort.

δ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Dez. 8	17 ^h 10 ^m 1.51		—24° 20' 6.1		0.159970	^h 4	^m 3 41
9	17 16 52.54	+6 51.03	24 32 43.0	—12 36.9	0.159091	0 7	3 39
10	17 23 45.14	6 52.60	24 44 2.1	11 19.1	0.158036	0 10	3 37
11	17 30 39.23	6 54.09	24 54 2.0	9 59.9	0.156802	0 13	3 36
12	17 37 34.71	6 55.48	25 2 41.3	8 39.3	0.155386	0 16	3 35
13	17 44 31.47	+6 56.76	—25 9 58.8	—7 17.5	0.153783	0 19	3 34
14	17 51 29.39	6 57.92	25 15 53.1	5 54.3	0.151990	0 22	3 33
15	17 58 28.32	6 58.93	25 20 22.8	4 29.7	0.150000	0 25	3 33
16	18 5 28.10	6 59.78	25 23 26.8	3 4.0	0.147808	0 28	3 32
17	18 12 28.54	7 0.44	25 25 3.9	1 37.1	0.145408	0 31	3 32
18	18 19 29.44	+7 0.90	—25 25 12.9	—0 9.0	0.142791	0 34	3 32
19	18 26 30.58	7 1.14	25 23 52.8	+1 20.1	0.139950	0 37	3 32
20	18 33 31.70	7 1.12	25 21 2.5	2 50.3	0.136876	0 40	3 33
21	18 40 32.52	7 0.82	25 16 41.3	4 21.2	0.133559	0 43	3 34
22	18 47 32.72	7 0.20	25 10 48.5	5 52.8	0.129988	0 46	3 35
23	18 54 31.96	+6 59.24	—25 3 23.4	+7 25.1	0.126152	0 49	3 35
24	19 1 29.85	6 57.89	24 54 25.6	8 57.8	0.122038	0 52	3 36
25	19 8 25.95	6 56.20	24 43 55.0	20 30.6	0.117631	0 55	3 37
26	19 15 19.78	6 53.83	24 31 51.6	12 3.4	0.112917	0 58	3 39
27	19 22 10.79	6 51.01	24 18 15.7	13 35.9	0.107880	I 1	3 41
28	19 28 58.36	+6 47.57	—24 3 8.2	+15 7.5	0.102502	I 4	3 43
29	19 35 41.81	6 43.45	23 46 30.2	16 38.0	0.096765	I 7	3 45
30	19 42 20.35	6 38.54	23 28 23.3	18 6.9	0.090650	I 9	3 47
31	19 48 53.10	6 32.75	23 8 49.7	19 33.6	0.084138	I 12	3 49
32	19 55 19.06	6 25.96	22 47 52.4	20 57.3	0.077207	I 14	3 52
33	20 1 37.09	+6 18.03	—22 25 35.2	+22 17.2	0.069835	I 17	3 55

Wahrer geozentrischer Ort.

	$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Jan.	0	16 ^h 37 ^m 14.75		−20° 49' 25.1	−12' 26.3	0.148781	21 ^h 59 ^m 4 ^s 6 ^m	
	1	16 42 29.52	+5 14.77	21 1 51.4	11 50.4	0.150295	22 1 4 4	
	2	16 47 45.23	5 15.71	21 13 41.8	11 14.0	0.151793	22 2 4 3	
	3	16 53 1.84	5 16.61	21 24 55.8	10 37.1	0.153276	22 3 4 2	
	4	16 58 19.33	5 17.49	21 35 32.9	−9 59.7	0.154743	22 5 4 0	
	5	17 3 37.67	+5 18.34	−21 45 32.6	9 21.7	0.156195	22 6 3 59	
	6	17 8 56.80	5 19.13	21 54 54.3	8 43.3	0.157633	22 7 3 58	
	7	17 14 16.69	5 19.89	22 3 37.6	8 4.4	0.159055	22 9 3 57	
	8	17 19 37.30	5 20.61	22 11 42.0	7 25.3	0.160462	22 10 3 56	
	9	17 24 58.58	5 21.28	22 19 7.3	−6 45.7	0.161854	22 12 3 55	
	10	17 30 20.48	+5 21.90	−22 25 53.0	6 5.7	0.163232	22 13 3 55	
	11	17 35 42.95	5 22.47	22 31 58.7	5 25.4	0.164595	22 14 3 54	
	12	17 41 5.95	5 23.00	22 37 24.1	4 44.7	0.165943	22 16 3 53	
	13	17 46 29.41	5 23.46	22 42 8.8	4 3.8	0.167277	22 17 3 53	
	14	17 51 53.29	5 23.88	22 46 12.6	−3 22.7	0.168596	22 19 3 52	
	15	17 57 17.52	+5 24.23	−22 49 35.3	2 41.3	0.169901	22 20 3 51	
	16	18 2 42.06	5 24.54	22 52 16.6	1 59.8	0.171191	22 22 3 51	
	17	18 8 6.84	5 24.78	22 54 16.4	1 18.1	0.172467	22 23 3 51	
	18	18 13 31.80	5 24.96	22 55 34.5	−0 36.3	0.173728	22 25 3 51	
	19	18 18 56.87	5 25.07	22 56 10.8	+0 5.6	0.174975	22 26 3 51	
	20	18 24 22.00	+5 25.13	−22 56 5.2	0 47.5	0.176208	22 28 3 51	
	21	18 29 47.14	5 25.14	22 55 17.7	1 29.5	0.177427	22 29 3 51	
	22	18 35 12.21	5 25.07	22 53 48.2	2 11.3	0.178632	22 31 3 51	
	23	18 40 37.14	5 24.93	22 51 36.9	2 53.2	0.179823	22 32 3 51	
	24	18 46 1.88	5 24.74	22 48 43.7	+3 35.0	0.181000	22 34 3 52	
	25	18 51 26.38	+5 24.50	−22 45 8.7	4 16.7	0.182164	22 35 3 52	
	26	18 56 50.57	5 24.19	22 40 52.0	4 58.2	0.183314	22 36 3 53	
	27	19 2 14.39	5 23.82	22 35 53.8	5 39.5	0.184451	22 38 3 53	
	28	19 7 37.79	5 23.40	22 30 14.3	6 20.5	0.185575	22 39 3 54	
	29	19 13 0.72	5 22.93	22 23 53.8	+7 1.4	0.186686	22 41 3 55	
	30	19 18 23.13	+5 22.41	−22 16 52.4	7 41.9	0.187785	22 42 3 55	
	31	19 23 44.96	5 21.83	22 9 10.5	8 22.2	0.188871	22 44 3 56	
Febr.	1	19 29 6.16	5 21.20	22 0 48.3	9 2.1	0.189945	22 45 3 57	
	2	19 34 26.70	5 20.54	21 51 46.2	9 41.7	0.191006	22 46 3 58	
	3	19 39 46.55	5 19.85	21 42 4.5	+10 20.9	0.192055	22 48 4 0	
	4	19 45 5.64	+5 19.09	−21 31 43.6	10 59.7	0.193092	22 49 4 1	
	5	19 50 23.93	5 18.29	21 20 43.9	11 38.1	0.194117	22 51 4 2	
	6	19 55 41.40	5 17.47	21 9 5.8	12 15.9	0.195130	22 52 4 3	
	7	20 0 58.00	5 16.60	20 56 49.9	12 53.4	0.196131	22 53 4 5	
	8	20 6 13.70	5 15.70	20 43 56.5		0.197120	22 55 4 6	

Wahrer geozentrischer Ort.

δ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Febr. 7	20 ^h 0 ^m 58.00		-20° 56' 49.9		0.196131	22 ^h 53 ^m	4 ^m 5
8	20 6 13.70	+5 15.70	20 43 56.5	+12 53.4	0.197120	22 55	4 6
9	20 11 28.46	5 14.76	20 30 26.1	13 30.4	0.198097	22 56	4 8
10	20 16 42.27	5 13.81	20 16 19.4	14 6.7	0.199061	22 57	4 9
11	20 21 55.09	5 12.82	20 1 36.8	14 42.6	0.200014	22 58	4 11
12	20 27 6.89	+5 11.80	-19 46 18.8	+15 18.0	0.200955	23 0	4 13
13	20 32 17.65	5 10.76	19 30 26.0	15 52.8	0.201884	23 1	4 14
14	20 37 27.36	5 9.71	19 13 59.1	16 26.9	0.202800	23 2	4 16
15	20 42 35.99	5 8.63	18 56 58.6	17 0.5	0.203705	23 3	4 18
16	20 47 43.53	5 7.54	18 39 25.1	17 33.5	0.204598	23 5	4 20
17	20 52 49.95	+5 6.42	-18 21 19.3	+18 5.8	0.205478	23 6	4 22
18	20 57 55.25	5 5.30	18 2 41.9	18 37.4	0.206347	23 7	4 24
19	21 2 59.41	5 4.16	17 43 33.5	19 8.4	0.207203	23 8	4 26
20	21 8 2.43	5 3.02	17 23 54.8	19 38.7	0.208048	23 9	4 28
21	21 13 4.29	5 1.86	17 3 46.4	20 8.4	0.208880	23 10	4 30
22	21 18 5.00	+5 0.71	-16 43 9.1	+20 37.3	0.209701	23 11	4 32
23	21 23 4.55	4 59.55	16 22 3.6	21 5.5	0.210509	23 12	4 34
24	21 28 2.94	4 58.39	16 0 30.7	21 32.9	0.211306	23 13	4 36
25	21 33 0.18	4 57.24	15 38 31.0	21 59.7	0.212091	23 14	4 38
26	21 37 56.27	4 56.09	15 16 5.2	22 25.8	0.212865	23 15	4 41
27	21 42 51.22	+4 54.95	-14 53 14.2	+22 51.0	0.213627	23 16	4 43
28	21 47 45.05	4 53.83	14 29 58.6	23 15.6	0.214378	23 17	4 45
März 1	21 52 37.77	4 52.72	14 6 19.1	23 39.5	0.215118	23 18	4 48
2	21 57 29.40	4 51.63	13 42 16.4	24 2.7	0.215847	23 19	4 50
3	22 2 19.95	4 50.55	13 17 51.4	24 25.0	0.216564	23 20	4 52
4	22 7 9.45	+4 49.50	-12 53 4.8	+24 46.6	0.217271	23 21	4 55
5	22 11 57.92	4 48.47	12 27 57.2	25 7.6	0.217966	23 22	4 57
6	22 16 45.38	4 47.46	12 2 29.3	25 27.9	0.218650	23 23	4 59
7	22 21 31.86	4 46.48	11 36 42.0	25 47.3	0.219324	23 24	5 2
8	22 26 17.37	4 45.51	11 10 36.0	26 6.0	0.219986	23 24	5 4
9	22 31 1.95	+4 44.58	-10 44 12.0	+26 24.0	0.220637	23 25	5 7
10	22 35 45.64	4 43.69	10 17 30.7	26 41.3	0.221277	23 26	5 9
11	22 40 28.46	4 42.82	9 50 32.9	26 57.8	0.221906	23 27	5 11
12	22 45 10.44	4 41.98	9 23 19.2	27 13.7	0.222523	23 28	5 14
13	22 49 51.61	4 41.17	8 55 50.4	27 28.8	0.223130	23 28	5 16
14	22 54 32.00	+4 40.39	-8 28 7.3	+27 43.1	0.223725	23 29	5 19
15	22 59 11.64	4 39.64	8 0 10.6	27 56.7	0.224308	23 30	5 21
16	23 3 50.57	4 38.93	7 32 1.0	28 9.6	0.224880	23 30	5 24
17	23 8 28.83	4 38.26	7 3 39.2	28 21.8	0.225440	23 31	5 27
18	23 13 6.44	4 37.61	6 35 6.0	28 33.2	0.225989	23 32	5 29

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
März 17	23 ^h 8 ^m 28.83	+4 37.61	- 7° 3' 39.2	+28 33.2	0.225440	23 ^h 31 ^m	5 ^h 27 ^m
18	23 13 6.44	4 37.01	6 35 6.0	28 43.9	0.225989	23 32	5 29
19	23 17 43.45	4 36.43	6 6 22.1	28 53.9	0.226526	23 32	5 32
20	23 22 19.88	4 35.89	5 37 28.2	29 3.0	0.227051	23 33	5 34
21	23 26 55.77	+4 35.39	5 8 25.2	+29 11.5	0.227565	23 34	5 37
22	23 31 31.16	4 34.92	- 4 39 13.7	29 19.2	0.228066	23 34	5 39
23	23 36 6.08	4 34.49	4 9 54.5	29 26.2	0.228555	23 35	5 42
24	23 40 40.57	4 34.10	3 40 28.3	29 32.4	0.229033	23 36	5 44
25	23 45 14.67	4 33.75	3 10 55.9	29 38.0	0.229498	23 36	5 47
26	23 49 48.42	+4 33.43	2 41 17.9	+29 42.7	0.229952	23 37	5 50
27	23 54 21.85	4 33.15	- 2 11 35.2	29 46.7	0.230394	23 37	5 52
28	23 58 55.00	4 32.92	1 41 48.5	29 50.1	0.230825	23 38	5 54
29	0 3 27.92	4 32.73	1 11 58.4	29 52.7	0.231243	23 39	5 57
30	0 8 06.5	4 32.58	0 42 5.7	29 54.7	0.231650	23 39	6 0
31	0 12 33.23	+4 32.48	- 0 12 11.0	+29 55.8	0.232045	23 40	6 3
April 1	0 17 5.71	4 32.41	+ 0 17 44.8	29 56.3	0.232429	23 40	6 5
2	0 21 38.12	4 32.39	0 47 41.1	29 56.1	0.232801	23 41	6 8
3	0 26 10.51	4 32.41	1 17 37.2	29 55.2	0.233161	23 42	6 10
4	0 30 42.92	4 32.48	1 47 32.4	29 53.6	0.233509	23 42	6 13
5	0 35 15.40	+4 32.59	2 17 26.0	+29 51.2	0.233846	23 43	6 16
6	0 39 47.99	4 32.74	+ 2 47 17.2	29 48.2	0.234171	23 43	6 18
7	0 44 20.73	4 32.93	3 17 5.4	29 44.5	0.234484	23 44	6 21
8	0 48 53.66	4 33.17	3 46 49.9	29 40.0	0.234785	23 45	6 23
9	0 53 26.83	4 33.45	4 16 29.9	29 34.8	0.235075	23 45	6 26
10	0 58 0.28	+4 33.77	4 46 4.7	+29 29.1	0.235352	23 46	6 29
11	1 2 34.05	4 34.13	+ 5 15 33.8	29 22.5	0.235617	23 46	6 31
12	1 7 8.18	4 34.54	5 44 56.3	29 15.2	0.235870	23 47	6 34
13	1 11 42.72	4 34.98	6 14 11.5	29 7.2	0.236110	23 47	6 36
14	1 16 17.70	4 35.46	6 43 18.7	28 58.5	0.236338	23 48	6 39
15	1 20 53.16	+4 35.98	7 12 17.2	+28 49.1	0.236553	23 49	6 42
16	1 25 29.14	4 36.53	+ 7 41 6.3	28 38.8	0.236756	23 50	6 44
17	1 30 5.67	4 37.12	8 9 45.1	28 27.9	0.236946	23 50	6 47
18	1 34 42.79	4 37.75	8 38 13.0	28 16.3	0.237122	23 51	6 49
19	1 39 20.54	4 38.40	9 6 29.3	28 3.9	0.237286	23 52	6 52
20	1 43 58.94	+4 39.10	9 34 33.2	+27 50.7	0.237436	23 53	6 54
21	1 48 38.04	4 39.82	+10 2 23.9	27 36.8	0.237573	23 53	6 57
22	1 53 17.86	4 40.57	10 30 0.7	27 22.1	0.237697	23 54	7 0
23	1 57 58.43	4 41.36	10 57 22.8	27 6.6	0.237807	23 55	7 2
24	2 2 39.79	4 42.17	11 24 29.4	26 50.4	0.237904	23 55	7 5
25	2 7 21.96		11 51 19.8		0.237988	23 56	7 7

Wahrer geozentrischer Ort.

^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen	
April	24	2 ^h 2 ^m 39.79	+4 42.17	+11 24 29.4	+26 50.4	0.237904	23 55 7 5	
	25	2 7 21.96	4 43.01	11 51 19.8	26 33.6	0.237988	23 56 7 7	
	26	2 12 4.97	4 43.89	12 17 53.4	26 16.0	0.238059	23 57 7 10	
	27	2 16 48.86	4 44.78	12 44 9.4	25 57.5	0.238116	23 58 7 12	
	28	2 21 33.64	+4 45.71	13 10 6.9	+25 38.3	0.238160	23 58 7 15	
	29	2 26 19.35	4 46.66	+13 35 45.2	25 18.5	0.238190	23 59 7 17	
	30	2 31 6.01	4 47.64	14 1 3.7	24 57.9	0.238207	0 0 7 20	
	Mai	1	2 35 53.65	4 48.63	14 26 1.6	24 36.5	0.238211	0 1 7 22
		2	2 40 42.28	4 49.65	14 50 38.1	24 14.5	0.238202	0 2 7 25
		3	2 45 31.93	+4 50.70	15 14 52.6	+23 51.6	0.238179	0 3 7 27
4		2 50 22.63	4 51.76	+15 38 44.2	23 28.1	0.238142	0 4 7 30	
5		2 55 14.39	4 52.83	16 2 12.3	23 3.9	0.238093	0 5 7 32	
6		3 0 7.22	4 53.92	16 25 16.2	22 38.8	0.238030	0 5 7 35	
7		3 5 1.14	4 55.03	16 47 55.0	22 13.1	0.237953	0 6 7 37	
8		3 9 56.17	+4 56.15	17 10 8.1	+21 46.6	0.237862	0 7 7 39	
9		3 14 52.32	4 57.27	+17 31 54.7	21 19.5	0.237758	0 8 7 42	
10		3 19 49.59	4 58.40	17 53 14.2	20 51.6	0.237640	0 9 7 44	
11	3 24 47.99	4 59.54	18 14 5.8	20 23.1	0.237507	0 10 7 46		
12	3 29 47.53	5 0.68	18 34 28.9	19 53.8	0.237361	0 11 7 48		
13	3 34 48.21	+5 1.81	18 54 22.7	+19 23.8	0.237201	0 13 7 50		
14	3 39 50.02	5 2.95	+19 13 46.5	18 53.2	0.237026	0 14 7 53		
15	3 44 52.97	5 4.08	19 32 39.7	18 21.8	0.236837	0 15 7 55		
16	3 49 57.05	5 5.19	19 51 1.5	17 49.8	0.236633	0 16 7 57		
17	3 55 2.24	5 6.29	20 8 51.3	17 17.0	0.236415	0 17 7 59		
18	4 0 8.53	+5 7.38	20 26 8.3	+16 43.6	0.236181	0 18 8 1		
19	4 5 15.91	5 8.44	+20 42 51.9	16 9.6	0.235932	0 19 8 3		
20	4 10 24.35	5 9.49	20 59 1.5	15 34.9	0.235669	0 21 8 5		
21	4 15 33.84	5 10.51	21 14 36.4	14 59.6	0.235390	0 22 8 6		
22	4 20 44.35	5 11.50	21 29 36.0	14 23.7	0.235096	0 23 8 8		
23	4 25 55.85	+5 12.46	21 43 59.7	+13 47.2	0.234787	0 24 8 10		
24	4 31 8.31	5 13.40	+21 57 46.9	13 10.2	0.234463	0 26 8 12		
25	4 36 21.71	5 14.30	22 10 57.1	12 32.6	0.234124	0 27 8 13		
26	4 41 36.01	5 15.17	22 23 29.7	11 54.5	0.233769	0 28 8 15		
27	4 46 51.18	5 16.00	22 35 24.2	11 15.9	0.233400	0 29 8 16		
28	4 52 7.18	+5 16.79	22 46 40.1	+10 36.8	0.233015	0 31 8 18		
29	4 57 23.97	5 17.54	+22 57 16.9	9 57.3	0.232615	0 32 8 19		
30	5 2 41.51	5 18.24	23 7 14.2	9 17.3	0.232199	0 33 8 20		
31	5 7 59.75	5 18.90	23 16 31.5	8 36.9	0.231769	0 35 8 21		
Juni	1	5 13 18.65	5 19.52	23 25 8.4	7 56.2	0.231323	0 36 8 22	
	2	5 18 38.17		23 33 4.6		0.230862	0 38 8 23	

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Juni	1	^h 5 ^m 13 18.65	^m +5 19.52	+23 25 8.4	+ 7 56.2	0.231323	\circ^h 36 m 8 s 22 m
	2	5 18 38.17	5 20.09	23 33 4.6	7 15.1	0.230862	\circ 38 8 23
	3	5 23 58.26	5 20.60	23 40 19.7	6 33.7	0.230386	\circ 39 8 24
	4	5 29 18.86	5 21.06	23 46 53.4	5 51.9	0.229895	\circ 40 8 25
	5	5 34 39.92	+5 21.48	23 52 45.3	+ 5 10.0	0.229389	\circ 42 8 26
	6	5 40 1.40	5 21.85	+23 57 55.3	4 27.7	0.228867	\circ 43 8 27
	7	5 45 23.25	5 22.15	24 2 23.0	3 45.4	0.228330	\circ 45 8 27
	8	5 50 45.40	5 22.40	24 6 8.4	3 2.7	0.227778	\circ 46 8 28
	9	5 56 7.80	5 22.59	24 9 11.1	2 20.0	0.227210	\circ 47 8 28
	10	6 1 30.39	+5 22.72	24 11 31.1	+ 1 37.1	0.226626	\circ 49 8 28
	11	6 6 53.11	5 22.80	+24 13 8.2	\circ 54.2	0.226027	\circ 50 8 29
	12	6 12 15.91	5 22.82	24 14 2.4	+ \circ 11.1	0.225412	\circ 52 8 29
	13	6 17 38.73	5 22.76	24 14 13.5	- \circ 32.0	0.224781	\circ 53 8 29
	14	6 23 1.49	5 22.64	24 13 41.5	1 15.1	0.224134	\circ 55 8 29
	15	6 28 24.13	+5 22.47	24 12 26.4	- 1 58.2	0.223471	\circ 56 8 29
	16	6 33 46.60	5 22.24	+24 10 28.2	2 41.1	0.222791	\circ 57 8 28
	17	6 39 8.84	5 21.94	24 7 47.1	3 23.9	0.222096	\circ 59 8 28
	18	6 44 30.78	5 21.58	24 4 23.2	4 6.7	0.221383	I \circ 8 27
	19	6 49 52.36	5 21.15	24 \circ 16.5	4 49.4	0.220654	I 2 8 27
	20	6 55 13.51	+5 20.67	23 55 27.1	- 5 31.7	0.219909	I 3 8 26
	21	7 \circ 34.18	5 20.12	+23 49 55.4	6 13.9	0.219147	I 5 8 26
	22	7 5 54.30	5 19.52	23 43 41.5	6 55.8	0.218369	I 6 8 25
	23	7 11 13.82	5 18.87	23 36 45.7	7 37.3	0.217574	I 7 8 24
	24	7 16 32.69	5 18.16	23 29 8.4	8 18.7	0.216762	I 9 8 23
	25	7 21 50.85	+5 17.40	23 20 49.7	- 8 59.7	0.215934	I 10 8 22
	26	7 27 8.25	5 16.60	+23 11 50.0	9 40.2	0.215090	I 11 8 21
	27	7 32 24.85	5 15.74	23 2 9.8	10 20.4	0.214229	I 13 8 19
	28	7 37 40.59	5 14.84	22 51 49.4	11 0.2	0.213351	I 14 8 18
	29	7 42 55.43	5 13.91	22 40 49.2	11 39.5	0.212457	I 15 8 17
	30	7 48 9.34	+5 12.93	22 29 9.7	-12 18.4	0.211547	I 17 8 15
Juli	1	7 53 22.27	5 11.91	+22 16 51.3	12 56.7	0.210621	I 18 8 14
	2	7 58 34.18	5 10.86	22 3 54.6	13 34.5	0.209678	I 19 8 12
	3	8 3 45.04	5 9.78	21 50 20.1	14 11.9	0.208719	I 20 8 11
	4	8 8 54.82	5 8.68	21 36 8.2	14 48.7	0.207744	I 22 8 9
	5	8 14 3.50	+5 7.55	21 21 19.5	-15 25.0	0.206752	I 23 8 7
	6	8 19 11.05	5 6.40	+21 5 54.5	16 0.6	0.205744	I 24 8 5
	7	8 24 17.45	5 5.23	20 49 53.9	16 35.7	0.204720	I 25 8 3
	8	8 29 22.68	5 4.04	20 33 18.2	17 10.2	0.203680	I 26 8 2
	9	8 34 26.72	5 2.93	20 16 8.0	17 44.1	0.202623	I 27 8 0
	10	8 39 29.55		19 58 23.9		0.201550	I 29 7 58

Wahrer geozentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Juli 9	8 ^h 34 ^m 26.72	+5 ^m 2.83	+20° 16' 8.0	-17' 44.1	0.202623	1 ^h 27 ^m	8 ^h 0 ^m
10	8 39 29.55	5 1.62	19 58 23.9	18 17.3	0.201550	1 29	7 58
11	8 44 31.17	5 0.38	19 40 6.6	18 49.9	0.200460	1 30	7 56
12	8 49 31.55	4 59.14	19 21 16.7	19 21.8	0.199353	1 31	7 53
13	8 54 30.69	+4 57.90	19 1 54.9	-19 53.1	0.198230	1 32	7 51
14	8 59 28.59	4 56.64	+18 42 1.8	20 23.7	0.197090	1 33	7 49
15	9 4 25.23	4 55.37	18 21 38.1	20 53.6	0.195932	1 34	7 47
16	9 9 20.60	4 54.11	18 0 44.5	21 22.9	0.194758	1 35	7 45
17	9 14 14.71	4 52.86	17 39 21.6	21 51.4	0.193566	1 36	7 42
18	9 19 7.57	+4 51.59	17 17 30.2	-22 19.2	0.192357	1 37	7 40
19	9 23 59.16	4 50.33	+16 55 11.0	22 46.2	0.191131	1 38	7 38
20	9 28 49.49	4 49.08	16 32 24.8	23 12.6	0.189888	1 39	7 35
21	9 33 38.57	4 47.84	16 9 12.2	23 38.3	0.188627	1 39	7 33
22	9 38 26.41	4 46.61	15 45 33.9	24 3.2	0.187349	1 40	7 30
23	9 43 13.02	+4 45.38	15 21 30.7	-24 27.4	0.186053	1 41	7 28
24	9 47 58.40	4 44.18	+14 57 3.3	24 50.8	0.184741	1 42	7 26
25	9 52 42.58	4 42.99	14 32 12.5	25 13.4	0.183411	1 43	7 23
26	9 57 25.57	4 41.82	14 6 59.1	25 35.4	0.182064	1 43	7 20
27	10 2 7.39	4 40.68	13 41 23.7	25 56.7	0.180700	1 44	7 18
28	10 6 48.07	+4 39.55	13 15 27.0	-26 17.2	0.179318	1 45	7 15
29	10 11 27.62	4 38.44	+12 49 9.8	26 36.9	0.177920	1 46	7 13
30	10 16 6.06	4 37.37	12 22 32.9	26 56.0	0.176505	1 46	7 10
31	10 20 43.43	4 36.32	11 55 36.9	27 14.3	0.175072	1 47	7 8
Aug. 1	10 25 19.75	4 35.30	11 28 22.6	27 31.9	0.173623	1 48	7 5
2	10 29 55.05	+4 34.32	11 0 50.7	-27 48.7	0.172156	1 48	7 2
3	10 34 29.37	4 33.36	+10 33 2.0	28 4.9	0.170673	1 49	7 0
4	10 39 2.73	4 32.45	10 4 57.1	28 20.5	0.169173	1 50	6 57
5	10 43 35.18	4 31.56	9 36 36.6	28 35.2	0.167657	1 50	6 55
6	10 48 6.74	4 30.71	9 8 1.4	28 49.3	0.166123	1 51	6 52
7	10 52 37.45	+4 29.90	8 39 12.1	-29 2.7	0.164572	1 51	6 49
8	10 57 7.35	4 29.12	+ 8 10 9.4	29 15.4	0.163004	1 52	6 47
9	11 1 36.47	4 28.38	7 40 54.0	29 27.4	0.161419	1 52	6 44
10	11 6 4.85	4 27.67	7 11 26.6	29 38.6	0.159817	1 53	6 41
11	11 10 32.52	4 27.01	6 41 48.0	29 49.2	0.158197	1 53	6 39
12	11 14 59.53	+4 26.38	6 11 58.8	-29 59.1	0.156559	1 54	6 36
13	11 19 25.91	4 25.78	+ 5 41 59.7	30 8.3	0.154904	1 55	6 34
14	11 23 51.69	4 25.22	5 11 51.4	30 16.7	0.153231	1 55	6 31
15	11 28 16.91	4 24.70	4 41 34.7	30 24.5	0.151539	1 55	6 28
16	11 32 41.61	4 24.21	4 11 10.2	30 31.6	0.149830	1 56	6 26
17	11 37 5.82		3 40 38.6		0.148103	1 56	6 23

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	11 ^h 32 ^m 41.61	+4 24.21	+ 4 11 10.2	-30 31.6	0.149830	1 56	6 26
17	11 37 5.82	4 23.77	3 40 38.6	30 37.8	0.148103	1 56	6 23
18	11 41 29.59	4 23.36	3 10 0.8	30 43.4	0.146357	1 57	6 20
19	11 45 52.95	4 22.99	2 39 17.4	30 48.4	0.144593	1 57	6 17
20	11 50 15.94	+4 22.66	2 8 29.0	-30 52.6	0.142811	1 58	6 15
21	11 54 38.60	4 22.36	+ 1 37 36.4	30 56.1	0.141011	1 58	6 12
22	11 59 0.96	4 22.11	1 6 40.3	30 59.0	0.139192	1 59	6 9
23	12 3 23.07	4 21.89	0 35 41.3	31 1.1	0.137355	1 59	6 7
24	12 7 44.96	4 21.71	+ 0 4 40.2	31 2.4	0.135499	1 59	6 4
25	12 12 6.67	+4 21.58	- 0 26 22.2	-31 3.1	0.133625	2 0	6 1
26	12 16 28.25	4 21.48	- 0 57 25.3	31 3.1	0.131732	2 0	5 59
27	12 20 49.73	4 21.43	1 28 28.4	31 2.5	0.129820	2 1	5 56
28	12 25 11.16	4 21.41	1 59 30.9	31 1.0	0.127890	2 1	5 53
29	12 29 32.57	4 21.44	2 30 31.9	30 58.9	0.125942	2 1	5 51
30	12 33 54.01	+4 21.51	3 1 30.8	-30 56.2	0.123976	2 2	5 48
31	12 38 15.52	4 21.62	- 3 32 27.0	30 52.8	0.121991	2 2	5 45
Sept. 1	12 42 37.14	4 21.77	4 3 19.8	30 48.7	0.119988	2 3	5 42
2	12 46 58.91	4 21.97	4 34 8.5	30 44.0	0.117966	2 3	5 40
3	12 51 20.88	4 22.21	5 4 52.5	30 38.5	0.115925	2 4	5 37
4	12 55 43.09	+4 22.49	5 35 31.0	-30 32.4	0.113866	2 4	5 34
5	13 0 5.58	4 22.82	- 6 6 3.4	30 25.6	0.111788	2 4	5 32
6	13 4 28.40	4 23.19	6 36 29.0	30 18.2	0.109692	2 5	5 29
7	13 8 51.59	4 23.59	7 6 47.2	30 10.0	0.107577	2 5	5 26
8	13 13 15.18	4 24.03	7 36 57.2	30 1.2	0.105442	2 6	5 24
9	13 17 39.21	+4 24.51	8 6 58.4	-29 51.7	0.103287	2 6	5 21
10	13 22 3.72	4 25.03	- 8 36 50.1	29 41.4	0.101113	2 7	5 18
11	13 26 28.75	4 25.57	9 6 31.5	29 30.5	0.098919	2 7	5 15
12	13 30 54.32	4 26.16	9 36 2.0	29 18.9	0.096704	2 8	5 13
13	13 35 20.48	4 26.77	10 5 20.9	29 6.4	0.094469	2 8	5 10
14	13 39 47.25	+4 27.42	10 34 27.3	-28 53.3	0.092214	2 9	5 7
15	13 44 14.67	4 28.09	-11 3 20.6	28 39.5	0.089938	2 9	5 5
16	13 48 42.76	4 28.80	11 32 0.1	28 25.0	0.087641	2 10	5 2
17	13 53 11.56	4 29.53	12 0 25.1	28 9.6	0.085323	2 10	4 59
18	13 57 41.09	4 30.29	12 28 34.7	27 53.6	0.082983	2 11	4 57
19	14 2 11.38	+4 31.08	12 56 28.3	-27 36.9	0.080622	2 11	4 54
20	14 6 42.46	4 31.89	-13 24 5.2	27 19.4	0.078240	2 12	4 52
21	14 11 14.35	4 32.71	13 51 24.6	27 1.1	0.075835	2 13	4 49
22	14 15 47.06	4 33.57	14 18 25.7	26 42.1	0.073409	2 13	4 46
23	14 20 20.63	4 34.44	14 45 7.8	26 22.4	0.070961	2 14	4 44
24	14 24 55.07		15 11 30.2		0.068490	2 14	4 41

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Sept. 23	14 ^h 20 ^m 20.63	+4 34.44	-14 45 7.8	-26 22.4	0.070961	2 ^h 14 ^m	4 44 ^m
24	14 24 55.07	4 35.33	15 11 30.2	26 2.0	0.068490	2 14	4 41
25	14 29 30.40	4 36.24	15 37 32.2	25 40.7	0.065997	2 15	4 39
26	14 34 6.64	4 37.16	16 3 12.9	25 18.8	0.063482	2 16	4 36
27	14 38 43.80	+4 38.10	16 28 31.7	-24 56.2	0.060944	2 16	4 33
28	14 43 21.90	4 39.05	-16 53 27.9	24 32.9	0.058384	2 17	4 31
29	14 48 0.95	4 40.02	17 18 0.8	24 8.8	0.055801	2 18	4 28
30	14 52 40.97	4 41.00	17 42 9.6	23 44.0	0.053195	2 18	4 26
Okt. 1	14 57 21.97	4 41.99	18 5 53.6	23 18.5	0.050567	2 19	4 23
2	15 2 3.96	+4 43.00	18 29 12.1	-22 52.5	0.047915	2 20	4 21
3	15 6 46.96	4 44.00	-18 52 4.6	22 25.6	0.045240	2 21	4 18
4	15 11 30.96	4 45.01	19 14 30.2	21 58.1	0.042542	2 22	4 16
5	15 16 15.97	4 46.02	19 36 28.3	21 29.9	0.039820	2 22	4 14
6	15 21 1.99	4 47.04	19 57 58.2	21 1.0	0.037074	2 23	4 11
7	15 25 49.03	+4 48.04	20 18 59.2	-20 31.6	0.034304	2 24	4 9
8	15 30 37.07	4 49.03	-20 39 30.8	20 1.4	0.031509	2 25	4 7
9	15 35 26.10	4 50.02	20 59 32.2	19 30.5	0.028688	2 26	4 4
10	15 40 16.12	4 51.00	21 19 2.7	18 59.0	0.025842	2 27	4 2
11	15 45 7.12	4 51.94	21 38 1.7	18 26.8	0.022970	2 28	4 0
12	15 49 59.06	+4 52.87	21 56 28.5	-17 54.0	0.020072	2 28	3 58
13	15 54 51.93	4 53.77	-22 14 22.5	17 20.6	0.017147	2 29	3 56
14	15 59 45.70	4 54.64	22 31 43.1	16 46.5	0.014195	2 30	3 54
15	16 4 40.34	4 55.49	22 48 29.6	16 11.9	0.011215	2 31	3 52
16	16 9 35.83	4 56.30	23 4 41.5	15 36.7	0.008207	2 32	3 50
17	16 14 32.13	+4 57.06	23 20 18.2	-15 0.8	0.005172	2 33	3 48
18	16 19 29.19	4 57.79	-23 35 19.0	14 24.5	0.002108	2 34	3 46
19	16 24 26.98	4 58.47	23 49 43.5	13 47.6	9.999014	2 35	3 44
20	16 29 25.45	4 59.10	24 3 31.1	13 10.3	9.995891	2 36	3 43
21	16 34 24.55	4 59.68	24 16 41.4	12 32.4	9.992739	2 37	3 41
22	16 39 24.23	+5 0.20	24 29 13.8	-11 54.1	9.989557	2 38	3 39
23	16 44 24.43	5 0.67	-24 41 7.9	11 15.3	9.986344	2 40	3 38
24	16 49 25.10	5 1.08	24 52 23.2	10 36.1	9.983100	2 41	3 36
25	16 54 26.18	5 1.42	25 2 59.3	9 56.6	9.979826	2 42	3 35
26	16 59 27.60	5 1.71	25 12 55.9	9 16.7	9.976521	2 43	3 34
27	17 4 29.31	+5 1.93	25 22 12.6	-8 36.5	9.973184	2 44	3 32
28	17 9 31.24	5 2.08	-25 30 49.1	7 56.1	9.969815	2 45	3 31
29	17 14 33.32	5 2.18	25 38 45.2	7 15.4	9.966415	2 46	3 30
30	17 19 35.50	5 2.20	25 46 0.6	6 34.4	9.962983	2 47	3 29
31	17 24 37.70	5 2.16	25 52 35.0	5 53.4	9.959518	2 48	3 28
Nov. 1	17 29 39.86		25 58 28.4		9.956020	2 49	3 28

Wahrer geozentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Okt. 31	17 ^h 24 ^m 37.70		—25 52 35.0		9.959518	2 ^h 48 ^m	3 28 ^m
Nov. 1	17 29 39.86	+5 2.16	25 58 28.4	— 5 53.4	9.956020	2 49	3 28
2	17 34 41.91	5 2.05	26 3 40.6	5 12.2	9.952488	2 50	3 27
3	17 39 43.77	5 1.86	26 8 11.4	4 30.8	9.948923	2 51	3 26
4	17 44 45.38	5 1.61	26 12 0.7	3 49.3	9.945323	2 53	3 26
5	17 49 46.66	+5 1.28	—26 15 8.6	— 3 7.9	9.941688	2 54	3 25
6	17 54 47.52	5 0.86	26 17 34.9	2 26.3	9.938018	2 55	3 25
7	17 59 47.89	5 0.37	26 19 19.7	1 44.8	9.934312	2 56	3 25
8	18 4 47.70	4 59.81	26 20 23.0	1 3.3	9.930569	2 57	3 25
9	18 9 46.85	4 59.15	26 20 45.0	— 0 22.0	9.926788	2 58	3 24
10	18 14 45.26	+4 58.41	—26 20 25.7	+ 0 19.3	9.922969	2 59	3 25
11	18 19 42.84	4 57.58	26 19 25.2	1 0.5	9.919112	3 0	3 25
12	18 24 39.51	4 56.67	26 17 43.7	1 41.5	9.915215	3 1	3 25
13	18 29 35.18	4 55.67	26 15 21.4	2 22.3	9.911278	3 2	3 25
14	18 34 29.76	4 54.58	26 12 18.7	3 2.7	9.907301	3 3	3 26
15	18 39 23.17	+4 53.41	—26 8 35.7	+ 3 43.0	9.903282	3 4	3 26
16	18 44 15.31	4 52.14	26 4 12.8	4 22.9	9.899220	3 5	3 26
17	18 49 6.09	4 50.78	25 59 10.4	5 2.4	9.895116	3 6	3 27
18	18 53 55.43	4 49.34	25 53 28.8	5 41.6	9.890969	3 7	3 28
19	18 58 43.23	4 47.80	25 47 8.4	6 20.4	9.886777	3 7	3 29
20	19 3 29.40	+4 46.17	—25 40 9.7	+ 6 58.7	9.882541	3 8	3 30
21	19 8 13.86	4 44.46	25 32 33.3	7 36.4	9.878260	3 9	3 31
22	19 12 56.51	4 42.65	25 24 19.5	8 13.8	9.873933	3 10	3 32
23	19 17 37.27	4 40.76	25 15 29.0	8 50.5	9.869559	3 11	3 33
24	19 22 16.05	4 38.78	25 6 2.5	9 26.5	9.865139	3 11	3 35
25	19 26 52.78	+4 36.73	—24 56 0.5	+10 2.0	9.860672	3 12	3 36
26	19 31 27.38	4 34.60	24 45 23.7	10 36.8	9.856157	3 13	3 37
27	19 35 59.77	4 32.39	24 34 12.6	11 11.1	9.851594	3 13	3 39
28	19 40 29.87	4 30.10	24 22 28.0	11 44.6	9.846982	3 14	3 40
29	19 44 57.61	4 27.74	24 10 10.7	12 17.3	9.842321	3 14	3 42
30	19 49 22.93	+4 25.32	—23 57 21.3	+12 49.4	9.837611	3 15	3 43
Dez. 1	19 53 45.76	4 22.83	23 44 0.7	13 20.6	9.832850	3 15	3 45
2	19 58 6.03	4 20.27	23 30 9.6	13 51.1	9.828038	3 15	3 47
3	20 2 23.67	4 17.64	23 15 48.7	14 20.9	9.823175	3 16	3 48
4	20 6 38.61	4 14.94	23 0 58.9	14 49.8	9.818260	3 16	3 50
5	20 10 50.79	+4 12.18	—22 45 40.9	+15 18.0	9.813291	3 16	3 52
6	20 15 0.13	4 9.34	22 29 55.7	15 45.2	9.808268	3 17	3 54
7	20 19 6.55	4 6.42	22 13 44.2	16 11.5	9.803190	3 17	3 56
8	20 23 10.00	4 3.45	21 57 7.2	16 37.0	9.798057	3 17	3 58
9	20 27 10.40	4 0.40	21 40 5.6	17 1.6	9.792868	3 17	4 0

Wahrer geozentrischer Ort.

δ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Dez. 8	20 ^h 23 ^m 10.00		-21° 57' 7.2		9.798057	3 ^h 17 ^m	3 ^h 58 ^m
9	20 27 10.40	+4 0.40	21 40 5.6	+17 1.6	9.792868	3 17	4 0
10	20 31 7.68	3 57.28	21 22 40.4	17 25.2	9.787621	3 17	4 2
11	20 35 1.75	3 54.07	21 4 52.4	17 48.0	9.782316	3 17	4 4
12	20 38 52.54	3 50.79	20 46 42.6	18 9.8	9.776953	3 17	4 6
13	20 42 39.97	+3 47.43	-20 28 12.0	+18 30.6	9.771531	3 17	4 8
14	20 46 23.96	3 43.99	20 9 21.7	18 50.3	9.766049	3 16	4 10
15	20 50 4.42	3 40.46	19 50 12.6	19 9.1	9.760506	3 16	4 12
16	20 53 41.27	3 36.85	19 30 45.8	19 26.8	9.754901	3 16	4 14
17	20 57 14.40	3 33.13	19 30 2.5	19 43.3	9.749235	3 15	4 16
18	21 0 43.72	+3 29.32	-18 51 3.7	+19 58.8	9.743496	3 15	4 19
19	21 4 9.13	3 25.41	18 30 50.5	20 13.2	9.737705	3 15	4 21
20	21 7 30.53	3 21.40	18 10 24.0	20 26.5	9.731852	3 14	4 23
21	21 10 47.82	3 17.29	17 49 45.3	20 38.7	9.725946	3 13	4 25
22	21 14 0.88	3 13.06	17 28 55.8	20 49.5	9.719967	3 13	4 27
23	21 17 9.60	+3 8.72	-17 7 56.6	+20 59.2	9.713926	3 12	4 29
24	21 20 13.88	3 4.28	16 46 49.0	21 7.6	9.707824	3 11	4 32
25	21 23 13.61	2 59.73	16 25 34.2	21 14.8	9.701660	3 10	4 34
26	21 26 8.67	2 55.06	16 4 13.4	21 20.8	9.695436	3 9	4 36
27	21 28 58.93	2 50.26	15 42 47.9	21 25.5	9.689153	3 8	4 38
28	21 31 44.26	+2 45.33	-15 21 19.0	+21 28.9	9.682811	3 7	4 40
29	21 34 24.55	2 40.29	14 59 48.1	21 30.9	9.676411	3 5	4 42
30	21 36 59.67	2 35.12	14 38 16.3	21 31.8	9.669955	3 4	4 44
31	21 39 29.48	2 29.81	14 16 45.1	21 31.2	9.663444	3 3	4 47
32	21 41 53.85	2 24.37	13 55 15.9	21 29.2	9.656881	3 1	4 49
33	21 44 12.63	+2 18.78	-13 33 50.0	+21 25.9	9.650267	2 59	4 51

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	15 ^h 25 ^m 18.82	+2 ^m 41.42	-18° 11' 3.6	-10 20.1	0.326660	20 ^h 47 ^m 4 ^s 23	
1	15 28 0.24	2 41.79	18 21 23.7	10 11.9	0.325083	20 46 4 22	
2	15 30 42.03	2 42.16	18 31 35.6	10 3-5	0.323494	20 45 4 21	
3	15 33 24.19	2 42.53	18 41 39.1	9 55-0	0.321892	20 44 4 20	
4	15 36 6.72	+2 42.91	18 51 34.1	- 9 46.5	0.320278	20 42 4 18	
5	15 38 49.63	2 43.29	-19 1 20.6	9 38.0	0.318651	20 41 4 17	
6	15 41 32.92	2 43.66	19 10 58.6	9 29-3	0.317012	20 40 4 16	
7	15 44 16.58	2 44.03	19 20 27.9	9 20-5	0.315360	20 39 4 15	
8	15 47 0.61	2 44.40	19 29 48.4	9 11.6	0.313696	20 38 4 14	
9	15 49 45.01	+2 44.78	19 39 0.0	- 9 2.6	0.312020	20 36 4 13	
10	15 52 29.79	2 45.15	-19 48 2.6	8 53-5	0.310331	20 35 4 12	
11	15 55 14.94	2 45.52	19 56 56.1	8 44-3	0.308629	20 34 4 11	
12	15 58 0.46	2 45.88	20 5 40.4	8 35-0	0.306914	20 33 4 10	
13	16 0 46.34	2 46.24	20 14 15.4	8 25-7	0.305187	20 32 4 10	
14	16 3 32.58	+2 46.59	20 22 41.1	- 8 16.2	0.303447	20 30 4 9	
15	16 6 19.17	2 46.94	-20 30 57.3	8 6.6	0.301694	20 29 4 8	
16	16 9 6.11	2 47.29	20 39 3.9	7 56-9	0.299928	20 28 4 7	
17	16 11 53.40	2 47.63	20 47 0.8	7 47.1	0.298149	20 27 4 6	
18	16 14 41.03	2 47.97	20 54 47.9	7 37-3	0.296357	20 26 4 5	
19	16 17 29.00	+2 48.29	21 2 25.2	- 7 27-3	0.294553	20 25 4 4	
20	16 20 17.29	2 48.61	-21 9 52.5	7 17-3	0.292735	20 24 4 3	
21	16 23 5.90	2 48.93	21 17 9.8	7 7.1	0.290905	20 22 4 2	
22	16 25 54.83	2 49.23	21 24 16.9	6 56-9	0.289062	20 21 4 2	
23	16 28 44.06	2 49.53	21 31 13.8	6 46-5	0.287206	20 20 4 1	
24	16 31 33.59	+2 49.83	21 38 0.3	- 6 36.1	0.285337	20 19 4 0	
25	16 34 23.42	2 50.12	-21 44 36.4	6 25-6	0.283456	20 18 3 59	
26	16 37 13.54	2 50.40	21 51 2.0	6 15.1	0.281562	20 17 3 59	
27	16 40 3.94	2 50.67	21 57 17.1	6 4-5	0.279656	20 16 3 58	
28	16 42 54.61	2 50.95	22 3 21.6	5 53-8	0.277738	20 15 3 57	
29	16 45 45.56	+2 51.22	22 9 15.4	- 5 43-0	0.275807	20 14 3 56	
30	16 48 36.78	2 51.49	-22 14 58.4	5 32.2	0.273864	20 12 3 56	
31	16 51 28.27	2 51.75	22 20 30.6	5 21.4	0.271909	20 11 3 55	
Febr. 1	16 54 20.02	2 52.01	22 25 52.0	5 10-5	0.269942	20 10 3 54	
2	16 57 12.03	2 52.27	22 31 2.5	4 59-5	0.267963	20 9 3 54	
3	17 0 4.30	+2 52.52	22 36 2.0	- 4 48.4	0.265972	20 8 3 53	
4	17 2 56.82	2 52.76	-22 40 50.4	4 37-4	0.263968	20 7 3 53	
5	17 5 49.58	2 52.99	22 45 27.8	4 26.2	0.261952	20 6 3 52	
6	17 8 42.57	2 53.22	22 49 54.0	4 15-0	0.259924	20 5 3 52	
7	17 11 35.79	2 53.45	22 54 9.0	4 3.8	0.257884	20 4 3 51	
8	17 14 29.24		22 58 12.8		0.255832	20 3 3 51	

Wahrer geozentrischer Ort.

$\overset{h}{\underset{\circ}{\text{Mittl. Zeit}}}$	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Febr. 7	^h 17 ^m 11 ^s 35.79	+2 53.45	-22° 54' 9.0	-4 3.8	0.257884	^h 20 ^m 4	^h 3 ^m 51
8	17 14 29.24	2 53.66	22 58 12.8	3 52.5	0.255832	20 3	3 51
9	17 17 22.90	2 53.86	23 2 5.3	3 41.2	0.253767	20 2	3 50
10	17 20 16.76	2 54.07	23 5 46.5	3 29.8	0.251690	20 1	3 50
11	17 23 10.83	+2 54.26	23 9 16.3	-3 18.3	0.249600	20 0	3 49
12	17 26 5.09	2 54.44	-23 12 34.6	3 6.9	0.247497	19 59	3 49
13	17 28 59.53	2 54.60	23 15 41.5	2 55.4	0.245382	19 58	3 49
14	17 31 54.13	2 54.76	23 18 36.9	2 43.8	0.243255	19 57	3 48
15	17 34 48.89	2 54.91	23 21 20.7	2 32.2	0.241115	19 56	3 48
16	17 37 43.80	+2 55.04	23 23 52.9	-2 20.6	0.238962	19 55	3 48
17	17 40 38.84	2 55.16	-23 26 13.5	2 8.9	0.236797	19 54	3 47
18	17 43 34.00	2 55.27	23 28 22.4	1 57.3	0.234619	19 52	3 47
19	17 46 29.27	2 55.37	23 30 19.7	1 45.6	0.232428	19 51	3 47
20	17 49 24.64	2 55.45	23 32 5.3	1 33.9	0.230225	19 50	3 47
21	17 52 20.09	+2 55.53	23 33 39.2	-1 22.1	0.228010	19 49	3 46
22	17 55 15.62	2 55.59	-23 35 1.3	1 10.4	0.225783	19 48	3 46
23	17 58 11.21	2 55.65	23 36 11.7	0 58.6	0.223543	19 47	3 46
24	18 1 6.86	2 55.69	23 37 10.3	0 46.9	0.221291	19 46	3 46
25	18 4 2.55	2 55.73	23 37 57.2	0 35.1	0.219027	19 45	3 46
26	18 6 58.28	+2 55.76	23 38 32.3	-0 23.4	0.216752	19 44	3 46
27	18 9 54.04	2 55.79	-23 38 55.7	-0 11.8	0.214465	19 43	3 46
28	18 12 49.83	2 55.80	23 39 7.5	0 0.0	0.212166	19 42	3 46
März 1	18 15 45.63	2 55.81	23 39 7.5	+0 11.7	0.209856	19 41	3 46
2	18 18 41.44	2 55.82	23 38 55.8	0 23.4	0.207534	19 40	3 46
3	18 21 37.26	+2 55.82	23 38 32.4	+0 35.1	0.205200	19 39	3 46
4	18 24 33.08	2 55.80	-23 37 57.3	0 46.7	0.202855	19 38	3 46
5	18 27 28.88	2 55.78	23 37 10.6	0 58.3	0.200498	19 37	3 46
6	18 30 24.66	2 55.75	23 36 12.3	1 10.0	0.198129	19 36	3 46
7	18 33 20.41	2 55.71	23 35 2.3	1 21.5	0.195749	19 35	3 46
8	18 36 16.12	+2 55.66	23 33 40.8	+1 33.1	0.193357	19 34	3 46
9	18 39 11.78	2 55.60	-23 32 7.7	1 44.7	0.190953	19 33	3 46
10	18 42 7.38	2 55.53	23 30 23.0	1 56.1	0.188537	19 32	3 47
11	18 45 2.91	2 55.46	23 28 26.9	2 7.6	0.186109	19 31	3 47
12	18 47 58.37	2 55.38	23 26 19.3	2 19.0	0.183670	19 30	3 47
13	18 50 53.75	+2 55.27	23 24 0.3	+2 30.4	0.181219	19 29	3 47
14	18 53 49.02	2 55.15	-23 21 29.9	2 41.7	0.178755	19 28	3 48
15	18 56 44.17	2 55.03	23 18 48.2	2 53.0	0.176279	19 27	3 48
16	18 59 39.20	2 54.90	23 15 55.2	3 4.2	0.173791	19 26	3 48
17	19 2 34.10	2 54.74	23 12 51.0	3 15.4	0.171291	19 25	3 49
18	19 5 28.84		23 9 35.6		0.168778	19 24	3 49

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen	
März	17 19 ^h 2 ^m 34.10		-23° 12' 51.0		0.171291	19 25	3 49	
	18 19 5 28.84	+2 54.74	23 9 35.6	+3 15.4	0.168778	19 24	3 49	
	19 19 8 23.42	2 54.58	23 6 9.1	3 26.5	0.166253	19 23	3 50	
	20 19 11 17.82	2 54.40	23 2 31.5	3 37.6	0.163716	19 22	3 50	
	21 19 14 12.03	2 54.21	22 58 43.0	3 48.5	0.161167	19 21	3 51	
	22 19 17 6.05	+2 54.02	-22 54 43.6	+3 59.4	0.158607	19 20	3 51	
	23 19 19 59.85	2 53.80	22 50 33.4	4 10.2	0.156035	19 19	3 52	
	24 19 22 53.43	2 53.58	22 46 12.4	4 21.0	0.153451	19 18	3 52	
	25 19 25 46.79	2 53.36	22 41 40.8	4 31.6	0.150856	19 17	3 53	
	26 19 28 39.91	2 53.12	22 36 58.7	4 42.1	0.148249	19 16	3 53	
	27 19 31 32.78	+2 52.87	-22 32 6.1	+4 52.6	0.145632	19 15	3 54	
	28 19 34 25.40	2 52.62	22 27 3.0	5 3.1	0.143003	19 14	3 54	
	29 19 37 17.78	2 52.38	22 21 49.6	5 13.4	0.140363	19 12	3 55	
	30 19 40 9.90	2 52.12	22 16 26.0	5 23.6	0.137712	19 11	3 56	
	31 19 43 1.75	2 51.85	22 10 52.2	5 33.8	0.135049	19 10	3 56	
	April	1 19 45 53.33	+2 51.58	-22 5 8.3	+5 43.9	0.132376	19 9	3 57
		2 19 48 44.64	2 51.31	21 59 14.5	5 53.8	0.129692	19 8	3 58
		3 19 51 35.67	2 51.03	21 53 10.8	6 3.7	0.126997	19 7	3 58
		4 19 54 26.42	2 50.75	21 46 57.4	6 13.4	0.124290	19 6	3 59
		5 19 57 16.88	2 50.46	21 40 34.3	6 23.1	0.121572	19 5	4 0
		6 20 0 7.04	+2 50.16	-21 34 1.7	+6 32.6	0.118843	19 4	4 1
		7 20 2 56.89	2 49.85	21 27 19.6	6 42.1	0.116102	19 3	4 1
		8 20 5 46.43	2 49.54	21 20 28.2	6 51.4	0.113350	19 2	4 2
		9 20 8 35.66	2 49.23	21 13 27.5	7 0.7	0.110587	19 0	4 3
		10 20 11 24.57	2 48.91	21 6 17.7	7 9.8	0.107812	18 59	4 4
		11 20 14 13.14	+2 48.57	-20 58 58.9	+7 18.8	0.105025	18 58	4 5
		12 20 17 1.37	2 48.23	20 51 31.2	7 27.7	0.102226	18 57	4 5
		13 20 19 49.25	2 47.88	20 43 54.8	7 36.4	0.099416	18 56	4 6
		14 20 22 36.76	2 47.51	20 36 9.8	7 45.0	0.096593	18 55	4 7
		15 20 25 23.90	2 47.14	20 28 16.2	7 53.6	0.093759	18 54	4 8
16 20 28 10.65		+2 46.75	-20 20 14.3	+8 1.9	0.090913	18 52	4 9	
17 20 30 57.01		2 46.36	20 12 4.2	8 10.1	0.088054	18 51	4 10	
18 20 33 42.97		2 45.96	20 3 46.1	8 18.1	0.085184	18 50	4 11	
19 20 36 28.51		2 45.54	19 55 20.0	8 26.1	0.082303	18 49	4 12	
20 20 39 13.62		2 45.11	19 46 46.2	8 33.8	0.079410	18 48	4 13	
21 20 41 58.30		+2 44.68	-19 38 4.9	+8 41.3	0.076505	18 46	4 13	
22 20 44 42.55		2 44.25	19 29 16.1	8 48.8	0.073589	18 45	4 14	
23 20 47 26.36		2 43.81	19 20 20.0	8 56.1	0.070662	18 44	4 15	
24 20 50 9.73		2 43.37	19 11 16.7	9 3.3	0.067724	18 43	4 16	
25 20 52 52.66		2 42.93	19 2 6.5	9 10.2	0.064774	18 42	4 17	

Wahrer geozentrischer Ort.

α^h Nittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
April	24	20 ^h 50 ^m 9.73	+2 42.93	-19° 11' 16.7	+ 9 10.2	0.0677724	18 ^h 43 ^m 4 16 ^m
	25	20 52 52.66	2 42.48	19 2 6.5	9 17.1	0.064774	18 42 4 17
	26	20 55 35.14	2 42.02	18 52 49.4	9 23.9	0.061814	18 40 4 18
	27	20 58 17.16	2 41.57	18 43 25.5	9 30.4	0.058843	18 39 4 19
	28	21 0 58.73	+2 41.12	18 33 55.1	+ 9 36.8	0.055861	18 38 4 20
Mai	29	21 3 39.85	2 40.67	-18 24 18.3	9 43.1	0.052868	18 37 4 21
	30	21 6 20.52	2 40.21	18 14 35.2	9 49.2	0.049865	18 35 4 22
	1	21 9 0.73	2 39.75	18 4 46.0	9 55.2	0.046850	18 34 4 23
	2	21 11 40.48	2 39.29	17 54 50.8	10 1.1	0.043824	18 33 4 24
	3	21 14 19.77	+2 38.82	17 44 49.7	+10 6.7	0.040787	18 32 4 26
	4	21 16 58.59	2 38.35	-17 34 43.0	10 12.3	0.037739	18 30 4 27
	5	21 19 36.94	2 37.88	17 24 30.7	10 17.7	0.034680	18 29 4 28
	6	21 22 14.82	2 37.40	17 14 13.0	10 22.9	0.031609	18 28 4 29
	7	21 24 52.22	2 36.92	17 3 50.1	10 27.9	0.028527	18 26 4 30
	8	21 27 29.14	+2 36.42	16 53 22.2	+10 32.7	0.025433	18 25 4 31
	9	21 30 5.56	2 35.92	-16 42 49.5	10 37.4	0.022327	18 24 4 32
	10	21 32 41.48	2 35.41	16 32 12.1	10 41.9	0.019209	18 22 4 33
	11	21 35 16.89	2 34.90	16 21 30.2	10 46.3	0.016079	18 21 4 34
	12	21 37 51.79	2 34.37	16 10 43.9	10 50.5	0.012937	18 20 4 35
	13	21 40 26.16	+2 33.84	15 59 53.4	+10 54.3	0.009782	18 18 4 36
	14	21 43 0.00	2 33.29	-15 48 59.1	10 57.9	0.006615	18 17 4 37
	15	21 45 33.29	2 32.73	15 38 1.2	11 1.4	0.003435	18 15 4 39
	16	21 48 6.02	2 32.16	15 26 59.8	11 4.7	0.000243	18 14 4 40
	17	21 50 38.18	2 31.58	15 15 55.1	11 7.9	9.997039	18 13 4 41
	18	21 53 9.76	+2 31.00	15 4 47.2	+11 10.8	9.993823	18 11 4 42
19	21 55 40.76	2 30.40	-14 53 36.4	11 13.5	9.990595	18 10 4 43	
20	21 58 11.16	2 29.81	14 42 22.9	11 15.9	9.987355	18 8 4 44	
21	22 0 40.97	2 29.20	14 31 7.0	11 18.2	9.984103	18 7 4 45	
22	22 3 10.17	2 28.60	14 19 48.8	11 20.3	9.980840	18 5 4 46	
23	22 5 38.77	+2 27.99	14 8 28.5	+11 22.2	9.977565	18 4 4 47	
24	22 8 6.76	2 27.37	-13 57 6.3	11 24.0	9.974279	18 2 4 48	
25	22 10 34.13	2 26.76	13 45 42.3	11 25.6	9.970981	18 1 4 50	
26	22 13 0.89	2 26.14	13 34 16.7	11 26.9	9.967671	18 0 4 51	
27	22 15 27.03	2 25.51	13 22 49.8	11 28.1	9.964350	17 58 4 52	
28	22 17 52.54	+2 24.88	13 11 21.7	+11 29.2	9.961018	17 56 4 53	
29	22 20 17.42	2 24.25	-12 59 52.5	11 30.1	9.957674	17 55 4 54	
30	22 22 41.67	2 23.61	12 48 22.4	11 30.7	9.954319	17 53 4 55	
31	22 25 5.28	2 22.96	12 36 51.7	11 31.2	9.950952	17 52 4 56	
Juni	1	22 27 28.24	2 22.31	12 25 20.5	11 31.4	9.947573	17 50 4 57
	2	22 29 50.55		12 13 49.1		9.944182	17 49 4 58

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Juni	1	22 ^h 27 ^m 28.24	+2 22.31	— 12 25 20.5	+11 31.4	9.947573	17 50 4 57
	2	22 29 50.55	2 21.66	12 13 49.1	11 31.4	9.944182	17 49 4 58
	3	22 32 12.21	2 21.00	12 2 17.7	11 31.4	9.940779	17 47 4 59
	4	22 34 33.21	2 20.32	11 50 46.3	11 31.1	9.937364	17 46 5 0
	5	22 36 53.53	+2 19.63	11 39 15.2	+11 30.6	9.933936	17 44 5 1
	6	22 39 13.16	2 18.92	— 11 27 44.6	11 29.8	9.930495	17 42 5 3
	7	22 41 32.08	2 18.21	11 16 14.8	11 28.9	9.927042	17 41 5 4
	8	22 43 50.29	2 17.48	11 4 45.9	11 27.7	9.923576	17 39 5 5
	9	22 46 7.77	2 16.72	10 53 18.2	11 26.2	9.920096	17 37 5 6
	10	22 48 24.49	+2 15.96	10 41 52.0	+11 24.5	9.916603	17 36 5 7
	11	22 50 40.45	2 15.18	— 10 30 27.5	11 22.5	9.913097	17 34 5 8
	12	22 52 55.63	2 14.37	10 19 5.0	11 20.3	9.909577	17 32 5 9
	13	22 55 10.00	2 13.55	10 7 44.7	11 17.8	9.906044	17 31 5 10
	14	22 57 23.55	2 12.71	9 56 26.9	11 15.1	9.902497	17 29 5 11
	15	22 59 36.26	+2 11.86	9 45 11.8	+11 12.1	9.898937	17 27 5 12
	16	23 1 48.12	2 10.98	— 9 33 59.7	11 8.9	9.895364	17 25 5 13
	17	23 3 59.10	2 10.08	9 22 50.8	11 5.4	9.891778	17 23 5 14
	18	23 6 9.18	2 9.17	9 11 45.4	11 1.8	9.888180	17 22 5 15
	19	23 8 18.35	2 8.24	9 0 43.6	10 58.0	9.884570	17 20 5 16
	20	23 10 26.59	+2 7.31	8 49 45.6	+10 53.8	9.880947	17 18 5 17
	21	23 12 33.90	2 6.37	— 8 38 51.8	10 49.4	9.877312	17 17 5 18
	22	23 14 40.27	2 5.41	8 28 2.4	10 44.8	9.873665	17 15 5 19
	23	23 16 45.68	2 4.42	8 17 17.6	10 40.1	9.870006	17 13 5 20
	24	23 18 50.10	2 3.42	8 6 37.5	10 35.1	9.866335	17 11 5 21
	25	23 20 53.52	+2 2.42	7 56 2.4	+10 30.0	9.862653	17 9 5 22
	26	23 22 55.94	2 1.38	— 7 45 32.4	10 24.6	9.858959	17 7 5 23
	27	23 24 57.32	2 0.33	7 35 7.8	10 19.0	9.855254	17 5 5 24
	28	23 26 57.65	1 59.27	7 24 48.8	10 13.2	9.851537	17 3 5 25
	29	23 28 56.92	1 58.19	7 14 35.6	10 7.2	9.847809	17 1 5 26
	30	23 30 55.11	+1 57.08	7 4 28.4	+10 1.0	9.844069	16 59 5 26
Juli	1	23 32 52.19	1 55.95	— 6 54 27.4	9 54.5	9.840318	16 57 5 27
	2	23 34 48.14	1 54.80	6 44 32.9	9 47.8	9.836555	16 55 5 28
	3	23 36 42.94	1 53.62	6 34 45.1	9 40.9	9.832780	16 53 5 29
	4	23 38 36.56	1 52.41	6 25 4.2	9 33.8	9.828993	16 51 5 30
	5	23 40 28.97	+1 51.16	6 15 30.4	+9 26.4	9.825194	16 49 5 31
	6	23 42 20.13	1 49.88	— 6 6 4.0	9 18.6	9.821384	16 47 5 32
	7	23 44 10.01	1 48.57	5 56 45.4	9 10.6	9.817562	16 45 5 33
	8	23 45 58.58	1 47.22	5 47 34.8	9 2.3	9.813728	16 43 5 33
	9	23 47 45.80	1 45.82	5 38 32.5	8 53.6	9.809882	16 41 5 34
	10	23 49 31.62		5 29 38.9		9.806026	16 39 5 35

Wahrer geozentrischer Ort.

o ^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen	
Juli	9	23 ^h 47 ^m 45.80	+1 ^m 45.82	-5° 38' 32.5	+8' 53.6	9.809882	16 ^h 41 ^m	5 ^h 34 ^m	
	10	23 49 31.62	1 44.39	5 29 38.9	8 44.8	9.806026	16 39	5 35	
	11	23 51 16.01	1 42.93	5 20 54.1	8 35.6	9.802158	16 36	5 36	
	12	23 52 58.94	1 41.41	5 12 18.5	8 26.1	9.798280	16 34	5 36	
	13	23 54 40.35	+1 39.86	5 3 52.4	+8 16.3	9.794392	16 32	5 37	
	14	23 56 20.21	1 38.26	-4 55 36.1	8 6.3	9.790495	16 30	5 38	
	15	23 57 58.47	1 36.63	4 47 29.8	7 55.9	9.786589	16 27	5 39	
	16	23 59 35.10	1 34.95	4 39 33.9	7 45.3	9.782675	16 25	5 39	
	17	0 1 10.05	1 33.25	4 31 48.6	7 34.5	9.778754	16 23	5 40	
	18	0 2 43.30	+1 31.51	4 24 14.1	+7 23.5	9.774826	16 20	5 41	
	19	0 4 14.81	1 29.73	-4 16 50.6	7 12.3	9.770893	16 18	5 41	
	20	0 5 44.54	1 27.91	4 9 38.3	7 0.8	9.766955	16 15	5 42	
	21	0 7 12.45	1 26.04	4 2 37.5	6 49.2	9.763013	16 13	5 43	
	22	0 8 38.49	1 24.15	3 55 48.3	6 37.3	9.759068	16 10	5 43	
	23	0 10 2.64	+1 22.22	3 49 11.0	+6 25.3	9.755121	16 8	5 44	
	24	0 11 24.86	1 20.25	-3 42 45.7	6 13.0	9.751172	16 5	5 44	
	25	0 12 45.11	1 18.23	3 36 32.7	6 0.6	9.747222	16 3	5 45	
	26	0 14 3.34	1 16.18	3 30 32.1	5 47.9	9.743273	16 0	5 45	
	27	0 15 19.52	1 14.09	3 24 44.2	5 35.1	9.739325	15 57	5 46	
	28	0 16 33.61	+1 11.93	3 19 9.1	+5 22.0	9.735379	15 55	5 46	
	29	0 17 45.54	1 9.74	-3 13 47.1	5 8.8	9.731436	15 52	5 47	
	30	0 18 55.28	1 7.51	3 8 38.3	4 55.5	9.727497	15 49	5 47	
	31	0 20 2.79	1 5.24	3 3 42.8	4 42.0	9.723563	15 46	5 48	
	Aug.	1	0 21 8.03	1 2.90	2 59 0.8	4 28.1	9.719636	15 43	5 48
		2	0 22 10.93	+1 0.51	2 54 32.7	+4 13.9	9.715716	15 41	5 49
		3	0 23 11.44	0 58.06	-2 50 18.8	3 59.7	9.711804	15 38	5 49
		4	0 24 9.50	0 55.55	2 46 19.1	3 45.3	9.707902	15 35	5 49
		5	0 25 5.05	0 52.98	2 42 33.8	3 30.5	9.704012	15 32	5 50
		6	0 25 58.03	0 50.35	2 39 3.3	3 15.4	9.700134	15 29	5 50
		7	0 26 48.38	+0 47.65	2 35 47.9	+3 0.1	9.696272	15 25	5 50
8		0 27 36.03	0 44.91	-2 32 47.8	2 44.7	9.692427	15 22	5 50	
9		0 28 20.94	0 42.11	2 30 3.1	2 29.2	9.688602	15 19	5 51	
10		0 29 3.05	0 39.25	2 27 33.9	2 13.5	9.684799	15 16	5 51	
11		0 29 42.30	0 36.34	2 25 20.4	1 57.6	9.681021	15 13	5 51	
12		0 30 18.64	+0 33.38	2 23 22.8	+1 41.6	9.677270	15 9	5 51	
13		0 30 52.02	0 30.37	-2 21 41.2	1 25.7	9.673549	15 6	5 51	
14		0 31 22.39	0 27.34	2 20 15.5	1 9.7	9.669862	15 2	5 51	
15		0 31 49.73	0 24.27	2 19 5.8	0 53.6	9.666211	14 59	5 52	
16		0 32 14.00	0 21.17	2 18 12.2	0 37.5	9.662600	14 55	5 52	
17		0 32 35.17		2 17 34.7		9.659033	14 52	5 52	

Wahrer geozentrischer Ort.

	O^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Aug.	16	$0^h 32^m 14.00$	$+0^m 21.17$	$-2^\circ 18' 12.2$	$+0' 37.5$	9.662600	$14^h 55^m$	$5^h 52^m$
	17	$0 32 35.17$	$0 18.03$	$2 17 34.7$	$0 21.6$	9.659033	$14 52$	$5 52$
	18	$0 32 53.20$	$0 14.88$	$2 17 13.1$	$+0 5.8$	9.655512	$14 48$	$5 52$
	19	$0 33 8.08$	$0 11.70$	$2 17 7.3$	$-0 9.9$	9.652041	$14 45$	$5 52$
	20	$0 33 19.78$	$+0 8.50$	$2 17 17.2$	$-0 25.3$	9.648623	$14 41$	$5 52$
	21	$0 33 28.28$	$0 5.29$	$-2 17 42.5$	$0 40.5$	9.645263	$14 37$	$5 52$
	22	$0 33 33.57$	$+0 2.08$	$2 18 23.0$	$0 55.6$	9.641963	$14 33$	$5 52$
	23	$0 33 35.65$	$-0 1.14$	$2 19 18.6$	$1 10.5$	9.638728	$14 29$	$5 52$
	24	$0 33 34.51$	$0 4.35$	$2 20 29.1$	$1 25.0$	9.635562	$14 25$	$5 51$
	25	$0 33 30.16$	$-0 7.57$	$2 21 54.1$	$-1 39.2$	9.632468	$14 21$	$5 51$
	26	$0 33 22.59$	$0 10.77$	$-2 23 33.3$	$1 53.1$	9.629449	$14 17$	$5 51$
	27	$0 33 11.82$	$0 13.96$	$2 25 26.4$	$2 6.6$	9.626510	$14 13$	$5 51$
	28	$0 32 57.86$	$0 17.13$	$2 27 33.0$	$2 19.8$	9.623656	$14 9$	$5 51$
	29	$0 32 40.73$	$0 20.29$	$2 29 52.8$	$2 32.5$	9.620890	$14 5$	$5 51$
	30	$0 32 20.44$	$-0 23.41$	$2 32 25.3$	$-2 44.8$	9.618215	$14 0$	$5 50$
	31	$0 31 57.03$	$0 26.51$	$-2 35 10.1$	$2 56.8$	9.615635	$13 56$	$5 50$
Sept.	1	$0 31 30.52$	$0 29.58$	$2 38 6.9$	$3 8.2$	9.613154	$13 52$	$5 50$
	2	$0 31 0.94$	$0 32.61$	$2 41 15.1$	$3 19.2$	9.610778	$13 47$	$5 50$
	3	$0 30 28.33$	$0 35.59$	$2 44 34.3$	$3 29.7$	9.608510	$13 43$	$5 49$
	4	$0 29 52.74$	$-0 38.51$	$2 48 4.0$	$-3 39.5$	9.606355	$13 38$	$5 49$
	5	$0 29 14.23$	$0 41.37$	$-2 51 43.5$	$3 48.8$	9.604318	$13 33$	$5 49$
	6	$0 28 32.86$	$0 44.14$	$2 55 32.3$	$3 57.3$	9.602403	$13 29$	$5 48$
	7	$0 27 48.72$	$0 46.82$	$2 59 29.6$	$4 5.0$	9.600614	$13 24$	$5 48$
	8	$0 27 1.90$	$0 49.39$	$3 3 34.6$	$4 12.0$	9.598957	$13 20$	$5 48$
	9	$0 26 12.51$	$-0 51.86$	$3 7 46.6$	$-4 18.0$	9.597436	$13 15$	$5 47$
	10	$0 25 20.65$	$0 54.19$	$-3 12 4.6$	$4 23.1$	9.596055	$13 10$	$5 47$
	11	$0 24 26.46$	$0 56.38$	$3 16 27.7$	$4 27.2$	9.594819	$13 5$	$5 47$
	12	$0 23 30.08$	$0 58.42$	$3 20 54.9$	$4 30.3$	9.593731	$13 0$	$5 46$
	13	$0 22 31.66$	$1 0.31$	$3 25 25.2$	$4 32.4$	9.592794	$12 55$	$5 46$
	14	$0 21 31.35$	$-1 2.04$	$3 29 57.6$	$-4 33.4$	9.592012	$12 50$	$5 45$
	15	$0 20 29.31$	$1 3.59$	$-3 34 31.0$	$4 33.3$	9.591389	$12 45$	$5 45$
	16	$0 19 25.72$	$1 4.98$	$3 39 4.3$	$4 32.2$	9.590926	$12 40$	$5 45$
	17	$0 18 20.74$	$1 6.18$	$3 43 36.5$	$4 29.9$	9.590624	$12 35$	$5 44$
	18	$0 17 14.56$	$1 7.19$	$3 48 6.4$	$4 26.6$	9.590486	$12 30$	$5 44$
	19	$0 16 7.37$	$-1 8.03$	$3 52 33.0$	$-4 22.1$	9.590514	$12 25$	$5 43$
	20	$0 14 59.34$	$1 8.66$	$-3 56 55.1$	$4 16.7$	9.590709	$12 20$	$5 43$
	21	$0 13 50.68$	$1 9.09$	$4 1 11.8$	$4 10.2$	9.591071	$12 15$	$5 43$
	22	$0 12 41.59$	$1 9.33$	$4 5 22.0$	$4 2.6$	9.591600	$12 10$	$5 42$
	23	$0 11 32.26$	$1 9.40$	$4 9 24.6$	$3 54.1$	9.592296	$12 5$	$5 42$
	24	$0 10 22.86$		$4 13 18.7$		9.593158	$12 0$	$5 42$

Wahrer geozentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Sept. 23	$^{\circ}$ II m 32.26		-4° 9' 24.6		9.592296	h 12 m 5 s 42 m	
24	$^{\circ}$ IO 22.86	-I 9.40	4 13 18.7	-3 54.1	9.593158	12 0	5 42
25	$^{\circ}$ 9 13.58	I 9.28	4 17 3.3	3 44.6	9.594185	II 55	5 41
26	$^{\circ}$ 8 4.61	I 8.97	4 20 37.7	3 34.4	9.595376	II 50	5 41
27	$^{\circ}$ 6 56.13	I 8.48	4 24 I.I	3 23.4	9.596729	II 45	5 41
28	$^{\circ}$ 5 48.30	-I 7.83	-4 27 12.7	-3 11.6	9.598242	II 39	5 40
29	$^{\circ}$ 4 41.28	I 7.02	4 30 11.8	2 59.1	9.599913	II 34	5 40
30	$^{\circ}$ 3 35.23	I 6.05	4 32 57.9	2 46.1	9.601740	II 29	5 40
Okt. 1	$^{\circ}$ 2 30.31	I 4.92	4 35 30.4	2 32.5	9.603719	II 24	5 40
2	$^{\circ}$ 1 26.67	I 3.64	4 37 48.6	2 18.2	9.605849	II 19	5 39
3	$^{\circ}$ 0 24.47	-I 2.20	-4 39 52.1	-2 3.5	9.608127	II 14	5 39
4	23 59 23.84	I 0.63	4 41 40.4	I 48.3	9.610550	II 9	5 39
5	23 58 24.93	\circ 58.91	4 43 13.0	I 32.6	9.613115	II 4	5 39
6	23 57 27.88	\circ 57.05	4 44 29.5	I 16.5	9.615818	II 0	5 39
7	23 56 32.82	\circ 55.06	4 45 29.4	\circ 59.9	9.618655	IO 55	5 39
8	23 55 39.87	- \circ 52.95	-4 46 12.5	- \circ 43.1	9.621623	IO 50	5 39
9	23 54 49.16	\circ 50.71	4 46 38.3	\circ 25.8	9.624719	IO 45	5 39
10	23 54 0.81	\circ 48.35	4 46 46.5	- \circ 8.2	9.627937	IO 40	5 39
11	23 53 14.93	\circ 45.88	4 46 36.9	+ \circ 9.6	9.631273	IO 35	5 39
12	23 52 31.61	\circ 43.32	4 46 9.2	\circ 27.7	9.634723	IO 31	5 39
13	23 51 50.93	- \circ 40.68	-4 45 23.4	+ \circ 45.8	9.638282	IO 26	5 39
14	23 51 12.97	\circ 37.96	4 44 19.3	I 4.1	9.641945	IO 22	5 39
15	23 50 37.80	\circ 35.17	4 42 56.8	I 22.5	9.645707	IO 17	5 39
16	23 50 5.50	\circ 32.30	4 41 15.9	I 40.9	9.649564	IO 13	5 39
17	23 49 36.11	\circ 29.39	4 39 16.6	I 59.3	9.653510	IO 8	5 39
18	23 49 9.68	- \circ 26.43	-4 36 59.0	+2 17.6	9.657541	IO 4	5 40
19	23 48 46.24	\circ 23.44	4 34 23.1	2 35.9	9.661652	IO 0	5 40
20	23 48 25.81	\circ 20.43	4 31 29.0	2 54.1	9.665838	9 55	5 40
21	23 48 8.42	\circ 17.39	4 28 16.8	3 12.2	9.670095	9 51	5 40
22	23 47 54.06	\circ 14.36	4 24 46.8	3 30.0	9.674417	9 47	5 41
23	23 47 42.74	- \circ 11.32	-4 20 59.2	+3 47.6	9.678800	9 43	5 41
24	23 47 34.45	\circ 8.29	4 16 54.4	4 4.8	9.683240	9 39	5 41
25	23 47 29.19	\circ 5.26	4 12 32.7	4 21.7	9.687732	9 35	5 42
26	23 47 26.93	- \circ 2.26	4 7 54.3	4 38.4	9.692273	9 31	5 42
27	23 47 27.64	+ \circ 0.71	4 2 59.4	4 54.9	9.696859	9 27	5 43
28	23 47 31.28	+ \circ 3.64	-3 57 48.5	+5 10.9	9.701486	9 23	5 43
29	23 47 37.82	\circ 6.54	3 52 22.0	5 26.5	9.706151	9 19	5 43
30	23 47 47.24	\circ 9.42	3 46 40.3	5 41.7	9.710850	9 15	5 44
31	23 47 59.50	\circ 12.26	3 40 43.6	5 56.7	9.715581	9 12	5 45
Nov. 1	23 48 14.57	\circ 15.07	3 34 32.2	6 11.4	9.720341	9 8	5 45

Wahrer geozentrischer Ort.

o ^h Mittl. Zeit		AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Haiber Tag- bogen
Okt	31	23 47 59.50	+0 15.07	-3 40 43.6	+ 6 11.4	9.715581	9 12	5 45
Nov.	1	23 48 14.57	o 17.84	3 34 32.2	6 25.8	9.720341	9 8	5 45
	2	23 48 32.41	o 20.59	3 28 6.4	6 39.9	9.725127	9 4	5 46
	3	23 48 53.00	o 23.29	3 21 26.5	6 53.7	9.729937	9 1	5 46
	4	23 49 16.29	+0 25.96	3 14 32.8	+ 7 7.2	9.734769	8 57	5 47
	5	23 49 42.25	o 28.59	-3 7 25.6	7 20.5	9.739618	8 54	5 47
	6	23 50 10.84	o 31.19	3 0 5.1	7 33.4	9.744484	8 50	5 48
	7	23 50 42.03	o 33.76	2 52 31.7	7 46.2	9.749364	8 47	5 49
	8	23 51 15.79	o 36.29	2 44 45.5	7 58.7	9.754256	8 43	5 49
	9	23 51 52.08	+0 38.78	2 36 46.8	+ 8 10.9	9.759156	8 40	5 50
	10	23 52 30.86	o 41.22	-2 28 35.9	8 22.9	9.764064	8 37	5 51
	11	23 53 12.08	o 43.62	2 20 13.0	8 34.6	9.768977	8 33	5 51
	12	23 53 55.70	o 45.99	2 11 38.4	8 46.1	9.773893	8 30	5 52
	13	23 54 41.69	o 48.30	2 2 52.3	8 57.3	9.778810	8 27	5 53
	14	23 55 29.99	+0 50.57	1 53 55.0	+ 9 8.2	9.783726	8 24	5 54
	15	23 56 20.56	o 52.79	-1 44 46.8	9 18.9	9.788640	8 21	5 55
	16	23 57 13.35	o 54.97	1 35 27.9	9 29.3	9.793549	8 18	5 55
	17	23 58 8.32	o 57.11	1 25 58.6	9 39.4	9.798452	8 15	5 56
	18	23 59 5.43	o 59.19	1 16 19.2	9 49.2	9.803348	8 12	5 57
	19	o 0 4.62	+1 1.22	1 6 30.0	+ 9 58.7	9.808234	8 9	5 58
	20	o 1 5.84	1 3.20	-0 56 31.3	10 8.0	9.813109	8 6	5 59
	21	o 2 9.04	1 5.13	o 46 23.3	10 17.0	9.817973	8 3	6 0
	22	o 3 14.17	1 7.01	o 36 6.3	10 25.6	9.822824	8 0	6 0
	23	o 4 21.18	1 8.84	o 25 40.7	10 33.9	9.827661	7 57	6 1
	24	o 5 30.02	+1 10.62	o 15 6.8	+10 41.9	9.832482	7 54	6 2
	25	o 6 40.64	1 12.35	-0 4 24.9	10 49.7	9.837288	7 52	6 3
	26	o 7 52.99	1 14.04	+0 6 24.8	10 57.1	9.842078	7 49	6 4
	27	o 9 7.03	1 15.69	o 17 21.9	11 4.3	9.846850	7 46	6 5
	28	o 10 22.72	1 17.29	o 28 26.2	11 11.2	9.851605	7 44	6 6
	29	o 11 40.01	+1 18.86	o 39 37.4	+11 17.9	9.856342	7 41	6 7
	30	o 12 58.87	1 20.40	+0 50 55.3	11 24.4	9.861060	7 38	6 8
Dez.	1	o 14 19.27	1 21.90	1 2 19.7	11 30.7	9.865760	7 36	6 9
	2	o 15 41.17	1 23.37	1 13 50.4	11 36.8	9.870440	7 33	6 10
	3	o 17 4.54	1 24.81	1 25 27.2	11 42.6	9.875101	7 31	6 11
	4	o 18 29.35	+1 26.22	1 37 9.8	+11 48.3	9.879742	7 28	6 12
	5	o 19 55.57	1 27.61	+1 48 58.1	11 53.9	9.884363	7 25	6 13
	6	o 21 23.18	1 28.97	2 0 52.0	11 59.2	9.888964	7 23	6 14
	7	o 22 52.15	1 30.30	2 12 51.2	12 4.4	9.893543	7 21	6 15
	8	o 24 22.45	1 31.60	2 24 55.6	12 9.5	9.898101	7 18	6 16
	9	o 25 54.05		2 37 5.1		9.902636	7 16	6 17

Wahrer geozentrischer Ort.

\odot Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Dez. 8	$^{\circ} 24^{\text{m}} 22.45^{\text{s}}$	+1 31.60	+2 24 55.6	+12 9.5	9.898101	7 ^h 18 ^m	6 ^h 16 ^m
9	$^{\circ} 25^{\text{m}} 54.05^{\text{s}}$	1 32.88	2 37 5.1	12 14.3	9.902636	7 16	6 17
10	$^{\circ} 27^{\text{m}} 26.93^{\text{s}}$	1 34.14	2 49 19.4	12 18.8	9.907150	7 13	6 18
11	$^{\circ} 29^{\text{m}} 1.07^{\text{s}}$	1 35.36	3 1 38.2	12 23.3	9.911641	7 11	6 19
12	$^{\circ} 30^{\text{m}} 36.43^{\text{s}}$	+1 36.57	3 14 1.5	+12 27.7	9.916109	7 9	6 21
13	$^{\circ} 32^{\text{m}} 13.00^{\text{s}}$	1 37.75	+3 26 29.2	12 31.9	9.920554	7 6	6 22
14	$^{\circ} 33^{\text{m}} 50.75^{\text{s}}$	1 38.91	3 39 1.1	12 35.8	9.924975	7 4	6 23
15	$^{\circ} 35^{\text{m}} 29.66^{\text{s}}$	1 40.03	3 51 36.9	12 39.5	9.929372	7 2	6 24
16	$^{\circ} 37^{\text{m}} 9.69^{\text{s}}$	1 41.14	4 4 16.4	12 43.1	9.933745	6 59	6 25
17	$^{\circ} 38^{\text{m}} 50.83^{\text{s}}$	+1 42.21	4 16 59.5	+12 46.5	9.938093	6 57	6 26
18	$^{\circ} 40^{\text{m}} 33.04^{\text{s}}$	1 43.26	+4 29 46.0	12 49.6	9.942416	6 55	6 27
19	$^{\circ} 42^{\text{m}} 16.30^{\text{s}}$	1 44.29	4 42 35.6	12 52.6	9.946714	6 53	6 28
20	$^{\circ} 44^{\text{m}} 0.59^{\text{s}}$	1 45.29	4 55 28.2	12 55.3	9.950986	6 50	6 29
21	$^{\circ} 45^{\text{m}} 45.88^{\text{s}}$	1 46.27	5 8 23.5	12 57.8	9.955233	6 48	6 31
22	$^{\circ} 47^{\text{m}} 32.15^{\text{s}}$	+1 47.21	5 21 21.3	+13 0.1	9.959455	6 46	6 32
23	$^{\circ} 49^{\text{m}} 19.36^{\text{s}}$	1 48.13	+5 34 21.4	13 2.2	9.963651	6 44	6 33
24	$^{\circ} 51^{\text{m}} 7.49^{\text{s}}$	1 49.04	5 47 23.6	13 4.2	9.967821	6 42	6 34
25	$^{\circ} 52^{\text{m}} 56.53^{\text{s}}$	1 49.92	6 0 27.8	13 5.9	9.971966	6 40	6 35
26	$^{\circ} 54^{\text{m}} 46.45^{\text{s}}$	1 50.79	6 13 33.7	13 7.3	9.976086	6 38	6 36
27	$^{\circ} 56^{\text{m}} 37.24^{\text{s}}$	+1 51.64	6 26 41.0	+13 8.6	9.980181	6 35	6 37
28	$^{\circ} 58^{\text{m}} 28.88^{\text{s}}$	1 52.48	+6 39 49.6	13 9.8	9.984251	6 33	6 39
29	$^{\circ} 0^{\text{m}} 21.36^{\text{s}}$	1 53.31	6 52 59.4	13 10.9	9.988296	6 31	6 40
30	$^{\circ} 1^{\text{m}} 2 14.67^{\text{s}}$	1 54.11	7 6 10.3	13 11.7	9.992316	6 29	6 41
31	$^{\circ} 1^{\text{m}} 4 8.78^{\text{s}}$	1 54.91	7 19 22.0	13 12.5	9.996312	6 27	6 42
32	$^{\circ} 1^{\text{m}} 6 3.69^{\text{s}}$	+1 55.69	7 32 34.5	+13 13.1	0.000283	6 25	6 43
33	$^{\circ} 1^{\text{m}} 7 59.38^{\text{s}}$		+7 45 47.6		0.004230	6 23	6 45

Wahrer geozentrischer Ort.

O ^h		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halb- Tag- Winkel	
Mittl. Zeit									
Jan.	1	II ^h 4 ^m 49.08	- ^m 3.28	+ 7 11 49.5	+ ^o 56.7	0.689685	16 ^h 23 ^m 6 ^s 42		
	3	II 4 45.80	o 6.16	7 12 46.2	1 14.4	0.687161	16 15	6 42	
	5	II 4 39.64	o 9.02	7 14 0.6	1 32.2	0.684669	16 7	6 42	
	7	II 4 30.62	o 11.89	7 15 32.8	1 49.8	0.682215	15 59	6 42	
	9	II 4 18.73	-o 14.73	7 17 22.6	+2 7.1	0.679803	15 51	6 42	
	11	II 4 4.00	o 17.56	+ 7 19 29.7	2 24.2	0.677436	15 43	6 42	
	13	II 3 46.44	o 20.37	7 21 53.9	2 41.2	0.675119	15 35	6 42	
	15	II 3 26.07	o 23.14	7 24 35.1	2 57.8	0.672857	15 26	6 43	
	17	II 3 2.93	o 25.87	7 27 32.9	3 14.2	0.670654	15 18	6 43	
	19	II 2 37.06	-o 28.54	7 30 47.1	+3 30.1	0.668515	15 10	6 43	
	21	II 2 8.52	o 31.14	+ 7 34 17.2	3 45.5	0.666445	15 1	6 44	
	23	II 1 37.38	o 33.67	7 38 2.7	4 0.3	0.664448	14 53	6 44	
	25	II 1 3.71	o 36.12	7 42 3.0	4 14.4	0.662528	14 45	6 44	
	27	II 0 27.59	o 38.47	7 46 17.4	4 27.8	0.660691	14 36	6 45	
	29	IO 59 49.12	-o 40.72	7 50 45.2	+4 40.6	0.658940	14 28	6 45	
	31	IO 59 8.40	o 42.86	+ 7 55 25.8	4 52.6	0.657279	14 19	6 45	
	Febr.	2	IO 58 25.54	o 44.91	8 0 18.4	5 3.7	0.655712	14 10	6 46
		4	IO 57 40.63	o 46.83	8 5 22.1	5 14.0	0.654242	14 2	6 46
		6	IO 56 53.80	o 48.65	8 10 36.1	5 23.6	0.652873	13 53	6 47
8		IO 56 5.15	-o 50.33	8 15 59.7	+5 32.4	0.651608	13 44	6 47	
10		IO 55 14.82	o 51.89	+ 8 21 32.1	5 40.1	0.650450	13 36	6 48	
12		IO 54 22.93	o 53.31	8 27 12.2	5 46.9	0.649403	13 27	6 48	
14		IO 53 29.62	o 54.59	8 32 59.1	5 52.8	0.648468	13 18	6 49	
16		IO 52 35.03	o 55.69	8 38 51.9	5 57.5	0.647649	13 9	6 49	
18		IO 51 39.34	-o 56.65	8 44 49.4	+6 1.3	0.646947	13 1	6 50	
20		IO 50 42.69	o 57.42	+ 8 50 50.7	6 3.9	0.646366	12 52	6 50	
22	IO 49 45.27	o 58.02	8 56 54.6	6 5.4	0.645906	12 43	6 51		
24	IO 48 47.25	o 58.46	9 3 0.0	6 5.9	0.645569	12 34	6 52		
26	IO 47 48.79	o 58.70	9 9 5.9	6 5.2	0.645356	12 25	6 52		
28	IO 46 50.09	-o 58.79	9 15 11.1	+6 3.3	0.645266	12 16	6 53		
März	2	IO 45 51.30	o 58.69	+ 9 21 14.4	6 0.5	0.645300	12 7	6 53	
	4	IO 44 52.61	o 58.45	9 27 14.9	5 56.8	0.645457	11 59	6 54	
	6	IO 43 54.16	o 58.03	9 33 11.7	5 52.0	0.645736	11 50	6 54	
	8	IO 42 56.13	o 57.47	9 39 3.7	5 46.2	0.646136	11 41	6 55	
	10	IO 41 58.66	-o 56.73	9 44 49.9	+5 39.6	0.646656	11 32	6 55	
	12	IO 41 1.93	o 55.85	+ 9 50 29.5	5 32.2	0.647295	11 23	6 56	
	14	IO 40 6.08	o 54.81	9 56 1.7	5 23.8	0.648051	11 14	6 56	
	16	IO 39 11.27	o 53.60	IO 1 25.5	5 14.5	0.648922	11 6	6 57	
	18	IO 38 17.67	o 52.24	IO 6 40.0	5 4.5	0.649906	10 57	6 57	
	20	IO 37 25.43		IO 11 44.5		0.651000	10 48	6 58	

Wahrer geozentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
März 18	10 ^h 38 ^m 17.67	-0 ^m 52.24	+10° 6' 40.0	+5' 4.5	0.649906	10 ^h 57 ^m	6 ^h 57 ^m
20	10 37 25.43	0 50.72	10 11 44.5	4 53.6	0.651000	10 48	6 58
22	10 36 34.71	0 49.07	10 16 38.1	4 42.0	0.652202	10 39	6 59
24	10 35 45.64	0 47.29	10 21 20.1	4 29.7	0.653509	10 31	6 59
26	10 34 58.35	-0 45.38	10 25 49.8	+4 16.7	0.654916	10 22	6 59
28	10 34 12.97	0 43.37	+10 30 6.5	4 3.2	0.656421	10 13	7 0
30	10 33 29.60	0 41.24	10 34 9.7	3 49.1	0.658018	10 5	7 0
April 1	10 32 48.36	0 39.04	10 37 58.8	3 34.7	0.659704	9 56	7 0
3	10 32 9.32	0 36.74	10 41 33.5	3 20.0	0.661475	9 48	7 1
5	10 31 32.58	-0 34.37	10 44 53.5	+3 4.9	0.663327	9 39	7 1
7	10 30 58.21	0 31.93	+10 47 58.4	2 49.5	0.665255	9 31	7 1
9	10 30 26.28	0 29.42	10 50 47.9	2 33.8	0.667257	9 22	7 2
11	10 29 56.86	0 26.86	10 53 21.7	2 17.9	0.669327	9 14	7 2
13	10 29 30.00	0 24.24	10 55 39.6	2 1.9	0.671461	9 6	7 2
15	10 29 5.76	-0 21.56	10 57 41.5	+1 45.6	0.673656	8 57	7 2
17	10 28 44.20	0 18.84	+10 59 27.1	1 29.1	0.675907	8 49	7 2
19	10 28 25.36	0 16.08	11 0 56.2	1 12.5	0.678211	8 41	7 2
21	10 28 9.28	0 13.31	11 2 8.7	0 55.8	0.680562	8 33	7 3
23	10 27 55.97	0 10.50	11 3 4.5	0 39.1	0.682957	8 24	7 3
25	10 27 45.47	-0 7.69	11 3 43.6	+0 22.5	0.685391	8 16	7 3
27	10 27 37.78	0 4.88	+11 4 6.1	+0 5.9	0.687860	8 8	7 3
29	10 27 32.90	-0 2.09	11 4 12.0	-0 10.6	0.690360	8 0	7 3
Mai 1	10 27 30.81	+0 0.70	11 4 1.4	0 27.0	0.692887	7 53	7 3
3	10 27 31.51	0 3.46	11 3 34.4	0 43.2	0.695437	7 45	7 3
5	10 27 34.97	+0 6.22	11 2 51.2	-0 59.3	0.698006	7 37	7 3
7	10 27 41.19	0 8.95	+11 1 51.9	1 15.2	0.700591	7 29	7 3
9	10 27 50.14	0 11.66	11 0 36.7	1 31.0	0.703189	7 21	7 2
11	10 28 1.80	0 14.34	10 59 5.7	1 46.6	0.705797	7 14	7 2
13	10 28 16.14	0 17.01	10 57 19.1	2 2.1	0.708412	7 6	7 2
15	10 28 33.15	+0 19.64	10 55 17.0	-2 17.4	0.711031	6 58	7 2
17	10 28 52.79	0 22.26	+10 52 59.6	2 32.6	0.713650	6 51	7 2
19	10 29 15.05	0 24.83	10 50 27.0	2 47.5	0.716267	6 43	7 1
21	10 29 39.88	0 27.37	10 47 39.5	3 2.3	0.718878	6 36	7 1
23	10 30 7.25	0 29.85	10 44 37.2	3 16.8	0.721481	6 28	7 1
25	10 30 37.10	+0 32.29	10 41 20.4	-3 31.0	0.724074	6 21	7 1
27	10 31 9.39	0 34.67	+10 37 49.4	3 45.0	0.726653	6 14	7 0
29	10 31 44.06	0 37.00	10 34 4.4	3 58.7	0.729216	6 6	7 0
31	10 32 21.06	0 39.28	10 30 5.7	4 12.2	0.731760	5 59	7 0
Juni 2	10 33 0.34	0 41.50	10 25 53.5	4 25.4	0.734285	5 52	6 59
4	10 33 41.84		10 21 28.1		0.736788	5 45	6 59

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Juni	2	$10^h 33^m 0.34$	$+0^m 41.50$	$+10^\circ 25' 53.5$	$-4' 25.4$	0.734285	$5^h 52^m 6^s 59$
	4	$10 33 41.84$	$0 43.69$	$10 21 28.1$	$4 38.2$	0.736788	$5 45 6 59$
	6	$10 34 25.53$	$0 45.82$	$10 16 49.9$	$4 51.0$	0.739267	$5 38 6 58$
	8	$10 35 11.35$	$0 47.90$	$10 11 58.9$	$5 3.4$	0.741721	$5 30 6 58$
	10	$10 35 59.25$	$+0 49.95$	$10 6 55.5$	$-5 15.6$	0.744148	$5 23 6 57$
	12	$10 36 49.20$	$0 51.94$	$+10 1 39.9$	$5 27.6$	0.746546	$5 16 6 57$
	14	$10 37 41.14$	$0 53.89$	$9 56 12.3$	$5 39.4$	0.748914	$5 9 6 56$
	16	$10 38 35.03$	$0 55.80$	$9 50 32.9$	$5 51.0$	0.751251	$5 2 6 56$
	18	$10 39 30.83$	$0 57.66$	$9 44 41.9$	$6 2.4$	0.753554	$4 55 6 55$
	20	$10 40 28.49$	$+0 59.45$	$9 38 39.5$	$-6 13.5$	0.755822	$4 48 6 55$
Juli	22	$10 41 27.94$	$1 1.18$	$+ 9 32 26.0$	$6 24.2$	0.758053	$4 41 6 54$
	24	$10 42 29.12$	$1 2.86$	$9 26 1.8$	$6 34.6$	0.760247	$4 35 6 54$
	26	$10 43 31.98$	$1 4.50$	$9 19 27.2$	$6 44.9$	0.762402	$4 28 6 53$
	28	$10 44 36.48$	$1 6.08$	$9 12 42.3$	$6 54.9$	0.764517	$4 21 6 52$
	30	$10 45 42.56$	$+1 7.60$	$9 5 47.4$	$-7 4.5$	0.766591	$4 14 6 52$
	2	$10 46 50.16$	$1 9.07$	$+ 8 58 42.9$	$7 13.9$	0.768624	$4 7 6 51$
	4	$10 47 59.23$	$1 10.51$	$8 51 29.0$	$7 23.1$	0.770614	$4 1 6 51$
	6	$10 49 9.74$	$1 11.91$	$8 44 5.9$	$7 32.0$	0.772561	$3 54 6 50$
	8	$10 50 21.65$	$1 13.26$	$8 36 33.9$	$7 40.8$	0.774464	$3 47 6 49$
	10	$10 51 34.91$	$+1 14.57$	$8 28 53.1$	$-7 49.4$	0.776323	$3 41 6 48$
Aug.	12	$10 52 49.48$	$1 15.84$	$+ 8 21 3.7$	$7 57.8$	0.778137	$3 34 6 48$
	14	$10 54 5.32$	$1 17.07$	$8 13 5.9$	$8 5.9$	0.779904	$3 27 6 47$
	16	$10 55 22.39$	$1 18.25$	$8 5 0.0$	$8 13.6$	0.781625	$3 21 6 46$
	18	$10 56 40.64$	$1 19.39$	$7 56 46.4$	$8 21.3$	0.783297	$3 14 6 46$
	20	$10 58 0.03$	$+1 20.47$	$7 48 25.1$	$-8 28.7$	0.784921	$3 8 6 45$
	22	$10 59 20.50$	$1 21.51$	$+ 7 39 56.4$	$8 35.8$	0.786496	$3 1 6 44$
	24	$11 0 42.01$	$1 22.51$	$7 31 20.6$	$8 42.5$	0.788021	$2 55 6 43$
	26	$11 2 4.52$	$1 23.46$	$7 22 38.1$	$8 49.1$	0.789496	$2 48 6 43$
	28	$11 3 27.98$	$1 24.36$	$7 13 49.0$	$8 55.3$	0.790920	$2 42 6 42$
	30	$11 4 52.34$	$+1 25.23$	$7 4 53.7$	$-9 1.4$	0.792293	$2 35 6 41$
Aug.	1	$11 6 17.57$	$1 26.06$	$+ 6 55 52.3$	$9 7.2$	0.793615	$2 29 6 40$
	3	$11 7 43.63$	$1 26.86$	$6 46 45.1$	$9 12.8$	0.794886	$2 22 6 39$
	5	$11 9 10.49$	$1 27.63$	$6 37 32.3$	$9 18.3$	0.796106	$2 16 6 38$
	7	$11 10 38.12$	$1 28.36$	$6 28 14.0$	$9 23.5$	0.797274	$2 9 6 38$
	9	$11 12 6.48$	$+1 29.06$	$6 18 50.5$	$-9 28.4$	0.798389	$2 3 6 37$
	11	$11 13 35.54$	$1 29.73$	$+ 6 9 22.1$	$9 33.1$	0.799452	$1 57 6 36$
	13	$11 15 5.27$	$1 30.36$	$5 59 49.0$	$9 37.8$	0.800461	$1 50 6 35$
	15	$11 16 35.63$	$1 30.94$	$5 50 11.2$	$9 42.0$	0.801416	$1 44 6 34$
	17	$11 18 6.57$	$1 31.50$	$5 40 29.2$	$9 46.0$	0.802317	$1 37 6 33$
	19	$11 19 38.07$		$5 30 43.2$		0.803163	$1 31 6 33$

Wahrer geozentrischer Ort.

o ^a Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Aug. 17	11 ^h 18 ^m 6.57	+1 ^m 31.50	+5° 40' 29.2	- 9' 46.0	0.802317	1 ^h 37 ^m	6 ^h 33 ^m
19	11 19 38.07	1 32.00	5 30 43.2	9 49.6	0.803163	1 31	6 33
21	11 21 10.07	1 32.46	5 20 53.6	9 53.1	0.803954	1 25	6 32
23	11 22 42.53	1 32.89	5 11 0.5	9 56.3	0.804691	1 18	6 31
25	11 24 15.42	+1 33.28	5 1 4.2	- 9 59.2	0.805372	1 12	6 30
27	11 25 48.70	1 33.64	+4 51 5.0	10 1.8	0.805998	1 6	6 29
29	11 27 22.34	1 33.96	4 41 3.2	10 4.3	0.806569	0 59	6 28
31	11 28 56.30	1 34.27	4 30 58.9	10 6.6	0.807085	0 53	6 27
Sept. 2	11 30 30.57	1 34.55	4 20 52.3	10 8.5	0.807545	0 47	6 26
4	11 32 5.12	+1 34.79	4 10 43.8	-10 10.3	0.807950	0 40	6 25
6	11 33 39.91	1 35.01	+4 0 33.5	10 11.9	0.808300	0 34	6 25
8	11 35 14.92	1 35.19	3 50 21.6	10 13.2	0.808593	0 28	6 24
10	11 36 50.11	1 35.33	3 40 8.4	10 14.3	0.808830	0 21	6 23
12	11 38 25.44	1 35.43	3 29 54.1	10 15.1	0.809009	0 15	6 22
14	11 40 0.87	+1 35.50	3 19 39.0	-10 15.5	0.809132	0 9	6 21
16	11 41 36.37	1 35.53	+3 9 23.5	10 15.8	0.809198	0 3	6 20
18	11 43 11.90	1 35.53	2 59 7.7	10 15.7	0.809207	23 56	6 19
20	11 44 47.43	1 35.48	2 48 52.0	10 15.3	0.809158	23 50	6 18
22	11 46 22.91	1 35.39	2 38 36.7	10 14.6	0.809052	23 44	6 17
24	11 47 58.30	+1 35.29	2 28 22.1	-10 13.7	0.808889	23 37	6 17
26	11 49 33.59	1 35.15	+2 18 8.4	10 12.5	0.808669	23 31	6 16
28	11 51 8.74	1 34.98	2 7 55.9	10 11.1	0.808392	23 25	6 15
30	11 52 43.72	1 34.77	1 57 44.8	10 9.5	0.808058	23 19	6 14
Okt. 2	11 54 18.49	1 34.54	1 47 35.3	10 7.7	0.807668	23 12	6 13
4	11 55 53.03	+1 34.27	1 37 27.6	-10 5.6	0.807220	23 6	6 12
6	11 57 27.30	1 33.97	+1 27 22.0	10 3.1	0.806715	23 0	6 11
8	11 59 1.27	1 33.63	1 17 18.9	10 0.4	0.806152	22 53	6 10
10	12 0 34.90	1 33.24	1 7 18.5	9 57.4	0.805532	22 47	6 9
12	12 2 8.14	1 32.83	0 57 21.1	9 54.1	0.804854	22 41	6 9
14	12 3 40.97	+1 32.36	0 47 27.0	- 9 50.5	0.804119	22 34	6 8
16	12 5 13.33	1 31.85	+0 37 36.5	9 46.5	0.803326	22 28	6 7
18	12 6 45.18	1 31.30	0 27 50.0	9 42.2	0.802477	22 22	6 6
20	12 8 16.48	1 30.71	0 18 7.8	9 37.7	0.801570	22 15	6 5
22	12 9 47.19	1 30.07	+0 8 30.1	9 32.9	0.800606	22 9	6 4
24	12 11 17.26	+1 29.41	-0 1 2.8	- 9 27.7	0.799586	22 2	6 4
26	12 12 46.67	1 28.70	-0 10 30.5	9 22.2	0.798510	21 56	6 3
28	12 14 15.37	1 27.96	0 19 52.7	9 16.6	0.797378	21 50	6 2
30	12 15 43.33	1 27.20	0 29 9.3	9 10.7	0.796191	21 43	6 1
Nov. 1	12 17 10.53	1 26.38	0 38 20.0	9 4.5	0.794948	21 37	6 0
3	12 18 36.91		0 47 24.5		0.793650	21 30	6 0

Wahrer geozentrischer Ort.

Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Nov. 1	12 ^h 17 ^m 10.53	+1 ^m 26.38	— 0° 38' 20.0	— 9 4.5	0.794948	21 ^h 37 ^m 6 ^s 0	
3	12 18 36.91	1 25.51	0 47 24.5	8 57.9	0.793650	21 30 6 0	
5	12 20 2.42	1 24.60	0 56 22.4	8 51.1	0.792297	21 24 5 59	
7	12 21 27.02	1 23.65	1 5 13.5	8 44.0	0.790889	21 17 5 58	
9	12 22 50.67	+1 22.64	1 13 57.5	— 8 36.4	0.789426	21 11 5 57	
11	12 24 13.31	1 21.58	— 1 22 33.9	8 28.6	0.787909	21 4 5 56	
13	12 25 34.89	1 20.46	1 31 2.5	8 20.4	0.786338	20 58 5 56	
15	12 26 55.35	1 19.30	1 39 22.9	8 11.8	0.784714	20 51 5 55	
17	12 28 14.65	1 18.09	1 47 34.7	8 2.9	0.783038	20 45 5 54	
19	12 29 32.74	+1 16.83	1 55 37.6	— 7 53.8	0.781310	20 38 5 54	
21	12 30 49.57	1 15.52	— 2 3 31.4	7 44.2	0.779532	20 32 5 53	
23	12 32 5.09	1 14.17	2 11 15.6	7 34.4	0.777704	20 25 5 52	
25	12 33 19.26	1 12.78	2 18 50.0	7 24.5	0.775826	20 18 5 52	
27	12 34 32.04	1 11.34	2 26 14.5	7 14.1	0.773900	20 12 5 51	
29	12 35 43.38	+1 9.85	2 33 28.6	— 7 3.6	0.771927	20 5 5 50	
Dez. 1	12 36 53.23	1 8.30	— 2 40 32.2	6 52.6	0.769907	19 58 5 50	
3	12 38 1.53	1 6.69	2 47 24.8	6 41.3	0.767841	19 51 5 49	
5	12 39 8.22	1 5.03	2 54 6.1	6 29.7	0.765730	19 45 5 49	
7	12 40 13.25	1 3.31	3 0 35.8	6 17.8	0.763574	19 38 5 48	
9	12 41 16.56	+1 1.53	3 6 53.6	— 6 5.4	0.761375	19 31 5 47	
11	12 42 18.09	0 59.69	— 3 12 59.0	5 52.7	0.759135	19 24 5 47	
13	12 43 17.78	0 57.80	3 18 51.7	5 39.7	0.756855	19 17 5 46	
15	12 44 15.58	0 55.84	3 24 31.4	5 26.4	0.754536	19 10 5 46	
17	12 45 11.42	0 53.84	3 29 57.8	5 12.7	0.752181	19 3 5 45	
19	12 46 5.26	+0 51.78	3 35 10.5	— 4 58.8	0.749790	18 56 5 45	
21	12 46 57.04	0 49.69	— 3 40 9.3	4 44.7	0.747366	18 49 5 45	
23	12 47 46.73	0 47.53	3 44 54.0	4 30.4	0.744911	18 42 5 44	
25	12 48 34.26	0 45.33	3 49 24.4	4 15.7	0.742427	18 35 5 44	
27	12 49 19.59	0 43.08	3 53 40.1	4 0.8	0.739915	18 28 5 43	
29	12 50 2.67	+0 40.79	3 57 40.9	— 3 45.6	0.737377	18 21 5 43	
31	12 50 43.46	0 38.44	— 4 1 26.5	3 30.2	0.734816	18 14 5 43	
33	12 51 21.90	0 36.04	4 4 56.7	3 14.5	0.732233	18 7 5 42	
35	12 51 57.94		4 8 11.2		0.729630	18 0 5 42	

Wahrer geozentrischer Ort.

Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Jan. 1	0 ^h 18 ^m 22.23	+20.06	-0° 38' 18.9	+2' 40.8	0.977400	5 ^h 37 ^m	6 ^h 0 ^m
3	0 18 42.29	21.51	0 35 38.1	2 50.0	0.978901	5 29	6 0
5	0 19 3.80	22.94	0 32 48.1	2 58.8	0.980391	5 21	6 1
7	0 19 26.74	24.36	0 29 49.3	3 7.5	0.981866	5 14	6 1
9	0 19 51.10	+25.75	0 26 41.8	+3 16.1	0.983325	5 6	6 1
11	0 20 16.85	27.12	-0 23 25.7	3 24.4	0.984767	4 59	6 2
13	0 20 43.97	28.46	0 20 1.3	3 32.5	0.986190	4 52	6 2
15	0 21 12.43	29.77	0 16 28.8	3 40.5	0.987594	4 44	6 2
17	0 21 42.20	31.07	0 12 48.3	3 48.3	0.988977	4 37	6 3
19	0 22 13.27	+32.33	0 9 0.0	+3 55.8	0.990338	4 29	6 3
21	0 22 45.60	33.56	-0 5 4.2	4 3.2	0.991675	4 22	6 3
23	0 23 19.16	34.77	-0 1 1.0	4 10.4	0.992987	4 15	6 4
25	0 23 53.93	35.94	+0 3 9.4	4 17.2	0.994273	4 7	6 4
27	0 24 29.87	37.07	0 7 26.6	4 23.8	0.995531	4 0	6 4
29	0 25 6.94	+38.16	0 11 50.4	+4 30.1	0.996761	3 53	6 5
31	0 25 45.10	39.22	+0 16 20.5	4 36.2	0.997962	3 46	6 5
Febr. 2	0 26 24.32	40.26	0 20 56.7	4 42.1	0.999132	3 38	6 5
4	0 27 4.58	41.26	0 25 38.8	4 47.8	1.000271	3 31	6 6
6	0 27 45.84	42.23	0 30 26.6	4 53.1	1.001379	3 24	6 6
8	0 28 28.07	+43.16	0 35 19.7	+4 58.3	1.002454	3 17	6 7
10	0 29 11.23	44.07	+0 40 18.0	5 3.3	1.003496	3 9	6 7
12	0 29 55.30	44.94	0 45 21.3	5 8.0	1.004504	3 2	6 8
14	0 30 40.24	45.79	0 50 29.3	5 12.5	1.005478	2 55	6 8
16	0 31 26.03	46.60	0 55 41.8	5 16.8	1.006416	2 48	6 8
18	0 32 12.63	+47.38	1 0 58.6	+5 20.9	1.007318	2 41	6 9
20	0 33 0.01	48.11	+1 6 19.5	5 24.7	1.008184	2 34	6 9
22	0 33 48.12	48.81	1 11 44.2	5 28.3	1.009012	2 27	6 10
24	0 34 36.93	49.48	1 17 12.5	5 31.5	1.009802	2 20	6 10
26	0 35 26.41	50.11	1 22 44.0	5 34.5	1.010554	2 13	6 11
28	0 36 16.52	+50.70	1 28 18.5	+5 37.3	1.011267	2 6	6 11
März 2	0 37 7.22	51.26	+1 33 55.8	5 39.8	1.011941	1 59	6 12
4	0 37 58.48	51.78	1 39 35.6	5 42.1	1.012575	1 52	6 12
6	0 38 50.26	52.28	1 45 17.7	5 44.1	1.013170	1 45	6 13
8	0 39 42.54	52.74	1 51 1.8	5 46.0	1.013726	1 38	6 13
10	0 40 35.28	+53.17	1 56 47.8	+5 47.7	1.014241	1 31	6 14
12	0 41 28.45	53.57	+2 2 35.5	5 49.1	1.014716	1 24	6 14
14	0 42 22.02	53.94	2 8 24.6	5 50.3	1.015150	1 17	6 15
16	0 43 15.96	54.28	2 14 14.9	5 51.4	1.015544	1 10	6 15
18	0 44 10.24	54.58	2 20 6.3	5 52.1	1.015896	1 3	6 16
20	0 45 4.82		2 25 58.4		1.016207	0 56	6 16

Wahrer geozentrischer Ort.

Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden-Winkel	Halber Tagbogen
März 18	$0^{\text{h}} 44^{\text{m}} 10.24$	+54.58	$+2^{\circ} 20' 6.3$	+5 52.1	I.015896	$1^{\text{h}} 3^{\text{m}} 6^{\text{s}}$	16°
20	$0 45 4.82$	54.84	$2 25 58.4$	5 52.7	I.016207	$0 56$	$6 16$
22	$0 45 59.66$	55.08	$2 31 51.1$	5 52.9	I.016476	$0 49$	$6 17$
24	$0 46 54.74$	55.27	$2 37 44.0$	5 53.0	I.016703	$0 42$	$6 17$
26	$0 47 50.01$	+55.43	$2 43 37.0$	+5 52.8	I.016889	$0 35$	$6 18$
28	$0 48 45.44$	55.55	$+2 49 29.8$	5 52.3	I.017033	$0 28$	$6 18$
30	$0 49 40.99$	55.64	$2 55 22.1$	5 51.7	I.017136	$0 21$	$6 19$
April 1	$0 50 36.63$	55.71	$3 1 13.8$	5 50.9	I.017197	$0 14$	$6 19$
3	$0 51 32.34$	55.74	$3 7 4.7$	5 49.9	I.017216	$0 7$	$6 20$
5	$0 52 28.08$	+55.75	$3 12 54.6$	+5 48.6	I.017194	$0 0$	$6 20$
7	$0 53 23.83$	55.72	$+3 18 43.2$	5 47.2	I.017130	$23 53$	$6 21$
9	$0 54 19.55$	55.67	$3 24 30.4$	5 45.5	I.017026	$23 46$	$6 21$
11	$0 55 15.22$	55.57	$3 30 15.9$	5 43.8	I.016881	$23 39$	$6 22$
13	$0 56 10.79$	55.45	$3 35 59.7$	5 41.7	I.016694	$23 32$	$6 22$
15	$0 57 6.24$	+55.29	$3 41 41.4$	+5 39.5	I.016467	$23 25$	$6 23$
17	$0 58 1.53$	55.10	$+3 47 20.9$	5 37.1	I.016199	$23 18$	$6 23$
19	$0 58 56.63$	54.89	$3 52 58.0$	5 34.5	I.015890	$23 11$	$6 24$
21	$0 59 51.52$	54.64	$3 58 32.5$	5 31.7	I.015540	$23 4$	$6 24$
23	$I 0 46.16$	54.35	$4 4 4.2$	5 28.5	I.015149	$22 57$	$6 25$
25	$I 1 40.51$	+54.02	$4 9 32.7$	+5 25.3	I.014718	$22 50$	$6 25$
27	$I 2 34.53$	53.67	$+4 14 58.0$	5 21.8	I.014248	$22 43$	$6 26$
29	$I 3 28.20$	53.28	$4 20 19.8$	5 18.2	I.013738	$22 36$	$6 26$
Mai 1	$I 4 21.48$	52.87	$4 25 38.0$	5 14.4	I.013190	$22 29$	$6 27$
3	$I 5 14.35$	52.43	$4 30 52.4$	5 10.4	I.012604	$22 22$	$6 27$
5	$I 6 6.78$	+51.96	$4 36 2.8$	+5 6.3	I.011979	$22 15$	$6 28$
7	$I 6 58.74$	51.47	$+4 41 9.1$	5 2.0	I.011316	$22 8$	$6 28$
9	$I 7 50.21$	50.94	$4 46 11.1$	4 57.5	I.010616	$22 1$	$6 29$
11	$I 8 41.15$	50.38	$4 51 8.6$	4 52.8	I.009879	$21 54$	$6 29$
13	$I 9 31.53$	49.79	$4 56 1.4$	4 48.1	I.009105	$21 47$	$6 29$
15	$I 10 21.32$	+49.16	$5 0 49.5$	+4 43.0	I.008295	$21 40$	$6 30$
17	$I 11 10.48$	48.50	$+5 5 32.5$	4 37.8	I.007449	$21 33$	$6 30$
19	$I 11 58.98$	47.81	$5 10 10.3$	4 32.4	I.006567	$21 26$	$6 31$
21	$I 12 46.79$	47.09	$5 14 42.7$	4 26.8	I.005651	$21 19$	$6 31$
23	$I 13 33.88$	46.33	$5 19 9.5$	4 21.1	I.004701	$21 12$	$6 32$
25	$I 14 20.21$	+45.54	$5 23 30.6$	+4 15.1	I.003717	$21 5$	$6 32$
27	$I 15 5.75$	44.71	$+5 27 45.7$	4 9.1	I.002700	$20 58$	$6 32$
29	$I 15 50.46$	43.87	$5 31 54.8$	4 2.9	I.001651	$20 51$	$6 33$
31	$I 16 34.33$	42.99	$5 35 57.7$	3 56.5	I.000571	$20 43$	$6 33$
Juni 2	$I 17 17.32$	42.10	$5 39 54.2$	3 50.1	0.999460	$20 36$	$6 33$
4	$I 17 59.42$		$5 43 44.3$		0.998320	$20 29$	$6 34$

Wahrer geozentrischer Ort.

Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Juni	2	17 ^h 17.32	+42.10	+5 39 54.2	+3 50.1	0.999460	20 ^h 36 ^m	6 ^h 33 ^m
	4	17 59.42	41.17	5 43 44.3	3 43.5	0.998320	20 29	6 34
	6	18 40.59	40.22	5 47 27.8	3 36.8	0.997150	20 22	6 34
	8	19 20.81	39.23	5 51 4.6	3 29.8	0.995952	20 15	6 34
	10	20 0.04	+38.21	5 54 34.4	+3 22.8	0.994726	20 7	6 35
	12	20 38.25	37.17	+5 57 57.2	3 15.5	0.993473	20 0	6 35
	14	21 15.42	36.08	6 1 12.7	3 8.2	0.992193	19 53	6 35
	16	21 51.50	34.97	6 4 20.9	3 0.7	0.990888	19 45	6 35
	18	22 26.47	33.82	6 7 21.6	2 53.0	0.989559	19 38	6 36
	20	23 0.29	+32.65	6 10 14.6	+2 45.3	0.988207	19 31	6 36
	22	23 32.94	31.45	+6 12 59.9	2 37.3	0.986833	19 24	6 36
	24	24 4.39	30.23	6 15 37.2	2 29.3	0.985438	19 16	6 37
	26	24 34.62	28.98	6 18 6.5	2 21.2	0.984023	19 9	6 37
28	25 3.60	27.71	6 20 27.7	2 12.9	0.982590	19 1	6 37	
30	25 31.31	+26.43	6 22 40.6	+2 4.7	0.981139	18 54	6 37	
Juli	2	25 57.74	25.11	+6 24 45.3	1 56.3	0.979672	18 47	6 37
	4	26 22.85	23.77	6 26 41.6	1 47.8	0.978191	18 39	6 37
	6	26 46.62	22.41	6 28 29.4	1 39.3	0.976695	18 32	6 38
	8	27 9.03	21.03	6 30 8.7	1 30.6	0.975186	18 24	6 38
	10	27 30.06	+19.62	6 31 39.3	+1 21.9	0.973667	18 17	6 38
	12	27 49.68	18.18	+6 33 1.2	1 13.1	0.972138	18 9	6 38
	14	28 7.86	16.73	6 34 14.3	1 4.1	0.970600	18 1	6 38
	16	28 24.59	15.26	6 35 18.4	0 55.1	0.969055	17 54	6 38
	18	28 39.85	13.77	6 36 13.5	0 46.0	0.967505	17 46	6 38
	20	28 53.62	+12.26	6 36 59.5	+0 37.0	0.965951	17 38	6 38
	22	29 5.88	10.74	+6 37 36.5	0 27.8	0.964396	17 31	6 38
	24	29 16.62	9.22	6 38 4.3	0 18.7	0.962840	17 23	6 38
	26	29 25.84	7.69	6 38 23.0	0 9.6	0.961286	17 15	6 39
28	29 33.53	6.16	6 38 32.6	+0 0.5	0.959735	17 8	6 39	
30	29 39.69	+4.61	6 38 33.1	-0 8.6	0.958190	17 0	6 39	
Aug.	1	29 44.30	3.06	+6 38 24.5	0 17.5	0.956651	16 52	6 39
	3	29 47.36	+1.52	6 38 7.0	0 26.6	0.955120	16 44	6 39
	5	29 48.88	-0.04	6 37 40.4	0 35.6	0.953600	16 36	6 38
	7	29 48.84	1.61	6 37 4.8	0 44.6	0.952092	16 28	6 38
	9	29 47.23	-3.16	6 36 20.2	-0 53.6	0.950598	16 21	6 38
	11	29 44.07	4.72	+6 35 26.6	1 2.4	0.949120	16 13	6 38
	13	29 39.35	6.27	6 34 24.2	1 11.2	0.947659	16 5	6 38
	15	29 33.08	7.81	6 33 13.0	1 19.9	0.946219	15 57	6 38
	17	29 25.27	9.33	6 31 53.1	1 28.5	0.944801	15 49	6 38
	19	29 15.94		6 30 24.6		0.943407	15 41	6 38

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Aug. 17	1 ^h 29 ^m 25.27	- 9.33	+6° 31' 53.1	-1 28.5	0.944801	15 ^h 49 ^m	6 ^h 38 ^m
19	1 29 15.94	10.84	6 30 24.6	1 36.8	0.943407	15 41	6 38
21	1 29 5.10	12.34	6 28 47.8	1 45.1	0.942040	15 33	6 37
23	1 28 52.76	13.79	6 27 2.7	1 53.2	0.940701	15 24	6 37
25	1 28 38.97	-15.22	6 25 9.5	-2 1.0	0.939393	15 16	6 37
27	1 28 23.75	16.62	+6 23 8.5	2 8.6	0.938117	15 8	6 37
29	1 28 7.13	18.00	6 20 59.9	2 16.0	0.936876	15 0	6 37
31	1 27 49.13	19.34	6 18 43.9	2 23.2	0.935670	14 52	6 37
Sept. 2	1 27 29.79	20.66	6 16 20.7	2 30.2	0.934503	14 44	6 37
4	1 27 9.13	-21.94	6 13 50.5	-2 36.9	0.933376	14 35	6 36
6	1 26 47.19	23.18	+6 11 13.6	2 43.4	0.932290	14 27	6 36
8	1 26 24.01	24.38	6 8 30.2	2 49.6	0.931248	14 19	6 36
10	1 25 59.63	25.54	6 5 40.6	2 55.6	0.930251	14 11	6 36
12	1 25 34.09	26.64	6 2 45.0	3 1.1	0.929302	14 2	6 35
14	1 25 7.45	-27.68	5 59 43.9	-3 6.2	0.928403	13 54	6 35
16	1 24 39.77	28.67	+5 56 37.7	3 11.1	0.927555	13 46	6 35
18	1 24 11.10	29.60	5 53 26.6	3 15.6	0.926760	13 37	6 35
20	1 23 41.50	30.47	5 50 11.0	3 19.6	0.926019	13 29	6 34
22	1 23 11.03	31.26	5 46 51.4	3 23.2	0.925333	13 21	6 34
24	1 22 39.77	-32.00	5 43 28.2	-3 26.3	0.924704	13 12	6 34
26	1 22 7.77	32.66	+5 40 1.9	3 29.0	0.924134	13 4	6 33
28	1 21 35.11	33.26	5 36 32.9	3 31.3	0.923623	12 55	6 33
30	1 21 1.85	33.80	5 33 1.6	3 33.2	0.923171	12 47	6 33
Okt. 2	1 20 28.05	34.26	5 29 28.4	3 34.8	0.922781	12 38	6 33
4	1 19 53.79	-34.65	5 25 53.6	-3 35.9	0.922452	12 30	6 32
6	1 19 19.14	34.97	+5 22 17.7	3 36.4	0.922186	12 21	6 32
8	1 18 44.17	35.22	5 18 41.3	3 36.6	0.921983	12 13	6 31
10	1 18 8.95	35.38	5 15 4.7	3 36.2	0.921844	12 4	6 31
12	1 17 33.57	35.46	5 11 28.5	3 35.3	0.921769	11 56	6 31
14	1 16 58.11	-35.47	5 7 53.2	-3 33.9	0.921759	11 48	6 30
16	1 16 22.64	35.39	+5 4 19.3	3 32.1	0.921814	11 39	6 30
18	1 15 47.25	35.22	5 0 47.2	3 29.7	0.921933	11 31	6 30
20	1 15 12.03	34.97	4 57 17.5	3 26.9	0.922117	11 22	6 30
22	1 14 37.06	34.66	4 53 50.6	3 23.5	0.922365	11 14	6 29
24	1 14 2.40	-34.26	4 50 27.1	-3 19.7	0.922676	11 5	6 29
26	1 13 28.14	33.79	+4 47 7.4	3 15.5	0.923050	10 57	6 29
28	1 12 54.35	33.25	4 43 51.9	3 10.8	0.923486	10 48	6 28
30	1 12 21.10	32.65	4 40 41.1	3 5.9	0.923983	10 40	6 28
Nov. 1	1 11 48.45	31.97	4 37 35.2	3 0.5	0.924540	10 31	6 28
3	1 11 16.48		4 34 34.7		0.925157	10 23	6 28

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Nov. 1	I II 48.45	-31.97	+4 37 35.2	-3 0.5	0.924540	10 31	6 28 ^m
3	I II 16.48	31.22	4 34 34.7	2 54.7	0.925157	10 23	6 28
5	I IO 45.26	30.41	4 31 40.0	2 48.5	0.925832	10 15	6 27
7	I IO 14.85	29.52	4 28 51.5	2 41.8	0.926565	10 6	6 27
9	I 9 45.33	-28.57	4 26 9.7	-2 34.8	0.927353	9 58	6 27
11	I 9 16.76	27.56	+4 23 34.9	2 27.4	0.928196	9 49	6 27
13	I 8 49.20	26.48	4 21 7.5	2 19.6	0.929092	9 41	6 26
15	I 8 22.72	25.35	4 18 47.9	2 11.6	0.930039	9 33	6 26
17	I 7 57.37	24.15	4 16 36.3	2 3.2	0.931036	9 24	6 26
19	I 7 33.22	-22.90	4 14 33.1	-1 54.5	0.932080	9 16	6 26
21	I 7 10.32	21.62	+4 12 38.6	1 45.7	0.933170	9 8	6 26
23	I 6 48.70	20.29	4 10 52.9	1 36.6	0.934303	9 0	6 26
25	I 6 28.41	18.92	4 9 16.3	1 27.3	0.935478	8 51	6 25
27	I 6 9.49	17.53	4 7 49.0	1 17.9	0.936692	8 43	6 25
29	I 5 51.96	-16.09	4 6 31.1	-1 8.2	0.937943	8 35	6 25
Dez. 1	I 5 35.87	14.62	+4 5 22.9	0 58.5	0.939230	8 27	6 25
3	I 5 21.25	13.12	4 4 24.4	0 48.6	0.940551	8 19	6 25
5	I 5 8.13	11.59	4 3 35.8	0 38.6	0.941903	8 11	6 25
7	I 4 56.54	10.04	4 2 57.2	0 28.4	0.943285	8 3	6 25
9	I 4 46.50	-8.46	4 2 28.8	-0 18.2	0.944694	7 55	6 25
11	I 4 38.04	6.86	+4 2 10.6	-0 7.8	0.946127	7 47	6 25
13	I 4 31.18	5.25	4 2 2.8	+0 2.5	0.947583	7 39	6 25
15	I 4 25.93	3.61	4 2 5.3	0 13.0	0.949060	7 31	6 25
17	I 4 22.32	1.98	4 2 18.3	0 23.4	0.950555	7 23	6 25
19	I 4 20.34	-0.34	4 2 41.7	+0 33.8	0.952065	7 15	6 25
21	I 4 20.00	+1.30	+4 3 15.5	0 44.2	0.953589	7 7	6 25
23	I 4 21.30	2.94	4 3 59.7	0 54.4	0.955124	6 59	6 25
25	I 4 24.24	4.57	4 4 54.1	1 4.5	0.956668	6 51	6 25
27	I 4 28.81	6.19	4 5 58.6	1 14.6	0.958220	6 43	6 25
29	I 4 35.00	+7.82	4 7 13.2	+1 24.6	0.959777	6 36	6 25
31	I 4 42.82	9.44	+4 8 37.8	1 34.5	0.961338	6 28	6 25
33	I 4 52.26		4 10 12.3		0.962900	6 20	6 25

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit		AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
Jan.	1	19 ^h 12 ^m 18.57	+30.65	-22° 49' 5.5	+52.2	1.312824	0 ^h 30 ^m	3 52 ^m
	3	19 12 49.22	30.71	22 48 13.3	52.7	1.312897	0 23	3 52
	5	19 13 19.93	30.73	22 47 20.6	53.0	1.312947	0 16	3 52
	7	19 13 50.66	30.73	22 46 27.6	53.2	1.312972	0 8	3 52
	9	19 14 21.39	+30.70	22 45 34.4	+53.5	1.312974	0 1	3 52
	11	19 14 52.09	30.65	-22 44 40.9	53.7	1.312952	23 54	3 52
	13	19 15 22.74	30.58	22 43 47.2	53.8	1.312906	23 46	3 52
	15	19 15 53.32	30.47	22 42 53.4	53.9	1.312836	23 39	3 52
	17	19 16 23.79	30.35	22 41 59.5	53.9	1.312742	23 31	3 53
	19	19 16 54.14	+30.18	22 41 5.6	+54.0	1.312624	23 24	3 53
	21	19 17 24.32	30.00	-22 40 11.6	53.9	1.312482	23 17	3 53
23	19 17 54.32	29.79	22 39 17.7	53.8	1.312316	23 9	3 53	
25	19 18 24.11	29.56	22 38 23.9	53.7	1.312127	23 2	3 53	
27	19 18 53.67	29.30	22 37 30.2	53.4	1.311915	22 55	3 53	
29	19 19 22.97	+29.02	22 36 36.8	+53.1	1.311681	22 47	3 53	
31	19 19 51.99	28.70	-22 35 43.7	52.8	1.311424	22 40	3 53	
Febr.	2	19 20 20.69	28.37	22 34 50.9	52.4	1.311144	22 32	3 53
	4	19 20 49.06	28.02	22 33 58.5	52.0	1.310842	22 25	3 54
	6	19 21 17.08	27.64	22 33 6.5	51.5	1.310518	22 18	3 54
	8	19 21 44.72	+27.23	22 32 15.0	+50.8	1.310173	22 10	3 54
	10	19 22 11.95	26.81	-22 31 24.2	50.2	1.309807	22 3	3 54
	12	19 22 38.76	26.37	22 30 34.0	49.6	1.309420	21 55	3 54
	14	19 23 5.13	25.90	22 29 44.4	48.9	1.309013	21 48	3 54
	16	19 23 31.03	25.41	22 28 55.5	48.0	1.308585	21 40	3 54
	18	19 23 56.44	+24.89	22 28 7.5	+47.2	1.308138	21 33	3 54
	20	19 24 21.33	24.36	-22 27 20.3	46.4	1.307672	21 25	3 54
22	19 24 45.69	23.80	22 26 33.9	45.4	1.307186	21 18	3 54	
24	19 25 9.49	23.22	22 25 48.5	44.3	1.306682	21 10	3 55	
26	19 25 32.71	22.62	22 25 4.2	43.3	1.306161	21 3	3 55	
28	19 25 55.33	+22.01	22 24 20.9	+42.2	1.305623	20 55	3 55	
März	2	19 26 17.34	21.37	-22 23 38.7	41.0	1.305068	20 48	3 55
	4	19 26 38.71	20.72	22 22 57.7	39.7	1.304497	20 40	3 55
	6	19 26 59.43	20.06	22 22 18.0	38.5	1.303911	20 33	3 55
	8	19 27 19.49	19.37	22 21 39.5	37.2	1.303311	20 25	3 55
	10	19 27 38.86	+18.68	22 21 2.3	+35.8	1.302696	20 18	3 55
	12	19 27 57.54	17.97	-22 20 26.5	34.4	1.302067	20 10	3 55
	14	19 28 15.51	17.24	22 19 52.1	32.9	1.301426	20 3	3 55
	16	19 28 32.75	16.49	22 19 19.2	31.5	1.300773	19 55	3 55
	18	19 28 49.24	15.73	22 18 47.7	29.9	1.300107	19 47	3 55
	20	19 29 4.97		22 18 17.8		1.299430	19 40	3 55

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
März 18	19 ^h 28 ^m 49.24	+15.73	-22° 18' 47.7	+29.9	1.300107	19 ^h 47 ^m	3 ^h 55 ^m
20	19 29 4.97	14.96	22 18 17.8	28.3	1.299430	19 40	3 55
22	19 29 19.93	14.17	22 17 49.5	26.7	1.298744	19 32	3 55
24	19 29 34.10	13.36	22 17 22.8	25.0	1.298048	19 24	3 55
26	19 29 47.46	+12.55	22 16 57.8	+23.3	1.297343	19 17	3 56
28	19 30 0.01	11.73	-22 16 34.5	21.6	1.296631	19 9	3 56
30	19 30 11.74	10.91	22 16 12.9	19.8	1.295912	19 1	3 56
April 1	19 30 22.65	10.08	22 15 53.1	18.1	1.295187	18 54	3 56
3	19 30 32.73	9.24	22 15 35.0	16.3	1.294455	18 46	3 56
5	19 30 41.97	+ 8.40	22 15 18.7	+14.5	1.293719	18 38	3 56
7	19 30 50.37	7.55	-22 15 4.2	12.7	1.292980	18 31	3 56
9	19 30 57.92	6.69	22 14 51.5	10.8	1.292238	18 23	3 56
11	19 31 4.61	5.83	22 14 40.7	8.9	1.291493	18 15	3 56
13	19 31 10.44	4.97	22 14 31.8	7.1	1.290748	18 7	3 56
15	19 31 15.41	+ 4.10	22 14 24.7	+ 5.2	1.290002	17 59	3 56
17	19 31 19.51	3.24	-22 14 19.5	3.3	1.289256	17 52	3 56
19	19 31 22.75	2.36	22 14 16.2	+ 1.4	1.288510	17 44	3 56
21	19 31 25.11	1.49	22 14 14.8	- 0.4	1.287767	17 36	3 56
23	19 31 26.60	+ 0.61	22 14 15.2	2.3	1.287028	17 28	3 56
25	19 31 27.21	- 0.25	22 14 17.5	- 4.1	1.286292	17 20	3 56
27	19 31 26.96	1.11	-22 14 21.6	6.0	1.285561	17 12	3 56
29	19 31 25.85	1.96	22 14 27.6	7.9	1.284836	17 4	3 56
Mai 1	19 31 23.89	2.80	22 14 35.5	9.7	1.284118	16 57	3 56
3	19 31 21.09	3.63	22 14 45.2	11.5	1.283408	16 49	3 56
5	19 31 17.46	- 4.46	22 14 56.7	-13.3	1.282705	16 41	3 56
7	19 31 13.00	5.28	-22 15 10.0	15.0	1.282011	16 33	3 56
9	19 31 7.72	6.09	22 15 25.0	16.7	1.281328	16 25	3 56
11	19 31 1.63	6.89	22 15 41.7	18.3	1.280656	16 17	3 56
13	19 30 54.74	7.67	22 16 0.0	20.0	1.279996	16 9	3 56
15	19 30 47.07	- 8.45	22 16 20.0	-21.5	1.279348	16 1	3 56
17	19 30 38.62	9.21	-22 16 41.5	23.1	1.278714	15 53	3 56
19	19 30 29.41	9.96	22 17 4.6	24.7	1.278094	15 45	3 56
21	19 30 19.45	10.69	22 17 29.3	26.2	1.277489	15 37	3 55
23	19 30 8.76	11.40	22 17 55.5	27.5	1.276900	15 28	3 55
25	19 29 57.36	-12.09	22 18 23.0	-28.9	1.276328	15 20	3 55
27	19 29 45.27	12.76	-22 18 51.9	30.2	1.275774	15 12	3 55
29	19 29 32.51	13.40	22 19 22.1	31.5	1.275238	15 4	3 55
31	19 29 19.11	14.03	22 19 53.6	32.6	1.274721	14 56	3 55
Juni 2	19 29 5.08	14.63	22 20 26.2	33.7	1.274224	14 48	3 55
4	19 28 50.45		22 20 59.9		1.273747	14 40	3 55

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Juni	2	19 ^h 29 ^m 5.08	—14.63	—22° 20' 26.2	—33.7	I.274224	14 ^h 48 ^m 3 ^s 55
	4	19 28 50.45	15.20	22 20 59.9	34.7	I.273747	14 40 3 55
	6	19 28 35.25	15.76	22 21 34.6	35.8	I.273291	14 32 3 55
	8	19 28 19.49	16.29	22 22 10.4	36.7	I.272856	14 24 3 55
	10	19 28 3.20	—16.80	22 22 47.1	—37.5	I.272444	14 15 3 55
	12	19 27 46.40	17.27	—22 23 24.6	38.4	I.272054	14 7 3 55
	14	19 27 29.13	17.73	22 24 3.0	39.2	I.271688	13 59 3 55
	16	19 27 11.40	18.14	22 24 42.2	39.8	I.271346	13 51 3 55
	18	19 26 53.26	18.53	22 25 22.0	40.4	I.271029	13 43 3 55
	20	19 26 34.73	—18.89	22 26 2.4	—40.9	I.270736	13 35 3 54
	22	19 26 15.84	19.22	—22 26 43.3	41.3	I.270468	13 26 3 54
	24	19 25 56.62	19.51	22 27 24.6	41.6	I.270226	13 18 3 54
	26	19 25 37.11	19.77	22 28 6.2	41.8	I.270011	13 10 3 54
	28	19 25 17.34	20.01	22 28 48.0	42.1	I.269822	13 2 3 54
	30	19 24 57.33	—20.21	22 29 30.1	—42.2	I.269659	12 53 3 54
Juli	2	19 24 37.12	20.37	—22 30 12.3	42.3	I.269524	12 45 3 54
	4	19 24 16.75	20.50	22 30 54.6	42.3	I.269415	12 37 3 54
	6	19 23 56.25	20.60	22 31 36.9	42.3	I.269333	12 29 3 54
	8	19 23 35.65	20.67	22 32 19.2	42.1	I.269278	12 21 3 54
	10	19 23 14.98	—20.71	22 33 1.3	—41.9	I.269251	12 12 3 54
	12	19 22 54.27	20.71	—22 33 43.2	41.6	I.269252	12 4 3 54
	14	19 22 33.56	20.67	22 34 24.8	41.3	I.269280	11 56 3 53
	16	19 22 12.89	20.60	22 35 6.1	40.9	I.269335	11 48 3 53
	18	19 21 52.29	20.50	22 35 47.0	40.4	I.269419	11 39 3 53
	20	19 21 31.79	—20.36	22 36 27.4	—39.8	I.269530	11 31 3 53
	22	19 21 11.43	20.19	—22 37 7.2	39.3	I.269668	11 23 3 53
	24	19 20 51.24	19.98	22 37 46.5	38.6	I.269832	11 15 3 53
	26	19 20 31.26	19.73	22 38 25.1	37.8	I.270024	11 7 3 53
	28	19 20 11.53	19.46	22 39 2.9	37.1	I.270242	10 58 3 53
	30	19 19 52.07	—19.16	22 39 40.0	—36.3	I.270486	10 50 3 53
Aug.	1	19 19 32.91	18.83	—22 40 16.3	35.4	I.270756	10 42 3 53
	3	19 19 14.08	18.46	22 40 51.7	34.4	I.271052	10 34 3 53
	5	19 18 55.62	18.07	22 41 26.1	33.4	I.271373	10 25 3 53
	7	19 18 37.55	17.64	22 41 59.5	32.4	I.271719	10 17 3 53
	9	19 18 19.91	—17.19	22 42 31.9	—31.4	I.272089	10 9 3 53
	11	19 18 2.72	16.70	—22 43 3.3	30.3	I.272483	10 1 3 52
	13	19 17 46.02	16.19	22 43 33.6	29.1	I.272900	9 53 3 52
	15	19 17 29.83	15.65	22 44 2.8	28.0	I.273340	9 45 3 52
	17	19 17 14.18	15.08	22 44 30.8	26.7	I.273802	9 36 3 52
	19	19 16 59.10		22 44 57.5		I.274286	9 28 3 52

Wahrer geozentrischer Ort.

Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Aug. 17	19 ^h 17 ^m 14.18	-15.08	-22° 44' 30.8	-26.7	1.273802	9 ^h 36 ^m	3 ^h 52 ^m
19	19 16 59.10	14.49	22 44 57.5	25.4	1.274286	9 28	3 52
21	19 16 44.61	13.87	22 45 22.9	24.2	1.274790	9 20	3 52
23	19 16 30.74	13.23	22 45 47.1	22.9	1.275314	9 12	3 52
25	19 16 17.51	-12.55	22 46 10.0	-21.5	1.275858	9 4	3 52
27	19 16 4.96	11.87	-22 46 31.5	20.1	1.276421	8 56	3 52
29	19 15 53.09	11.17	22 46 51.6	18.8	1.277001	8 48	3 52
31	19 15 41.92	10.46	22 47 10.4	17.4	1.277598	8 40	3 52
Sept. 2	19 15 31.46	9.72	22 47 27.8	16.0	1.278213	8 32	3 52
4	19 15 21.74	-8.96	22 47 43.8	-14.5	1.278843	8 24	3 52
6	19 15 12.78	8.20	-22 47 58.3	13.1	1.279487	8 16	3 52
8	19 15 4.58	7.41	22 48 11.4	11.6	1.280145	8 8	3 52
10	19 14 57.17	6.59	22 48 23.0	10.1	1.280816	8 0	3 52
12	19 14 50.58	5.78	22 48 33.1	8.5	1.281500	7 52	3 52
14	19 14 44.80	-4.95	22 48 41.6	-7.0	1.282196	7 44	3 52
16	19 14 39.85	4.11	-22 48 48.6	5.5	1.282902	7 36	3 52
18	19 14 35.74	3.25	22 48 54.1	3.9	1.283618	7 28	3 52
20	19 14 32.49	2.39	22 48 58.0	2.3	1.284343	7 20	3 52
22	19 14 30.10	1.53	22 49 0.3	-0.8	1.285076	7 12	3 52
24	19 14 28.57	-0.67	22 49 1.1	+0.8	1.285815	7 4	3 52
26	19 14 27.90	+0.21	-22 49 0.3	2.4	1.286561	6 56	3 52
28	19 14 28.11	1.08	22 48 57.9	3.9	1.287312	6 48	3 52
30	19 14 29.19	1.95	22 48 54.0	5.5	1.288066	6 40	3 52
Okt. 2	19 14 31.14	2.83	22 48 48.5	7.1	1.288824	6 32	3 52
4	19 14 33.97	+3.71	22 48 41.4	+8.6	1.289585	6 25	3 52
6	19 14 37.68	4.60	-22 48 32.8	10.2	1.290348	6 17	3 52
8	19 14 42.28	5.47	22 48 22.6	11.8	1.291111	6 9	3 52
10	19 14 47.75	6.35	22 48 10.8	13.3	1.291874	6 1	3 52
12	19 14 54.10	7.24	22 47 57.5	14.9	1.292637	5 53	3 52
14	19 15 1.34	+8.11	22 47 42.6	+16.5	1.293398	5 46	3 52
16	19 15 9.45	8.96	-22 47 26.1	18.0	1.294155	5 38	3 52
18	19 15 18.41	9.82	22 47 8.1	19.6	1.294909	5 30	3 52
20	19 15 28.23	10.68	22 46 48.5	21.1	1.295659	5 22	3 52
22	19 15 38.91	11.51	22 46 27.4	22.6	1.296403	5 15	3 52
24	19 15 50.42	+12.34	22 46 4.8	+24.2	1.297141	5 7	3 52
26	19 16 2.76	13.14	-22 45 40.6	25.7	1.297872	4 59	3 52
28	19 16 15.90	13.95	22 45 14.9	27.2	1.298596	4 52	3 52
30	19 16 29.85	14.75	22 44 47.7	28.7	1.299312	4 44	3 52
Nov. 1	19 16 44.60	15.54	22 44 19.0	30.2	1.300017	4 36	3 52
3	19 17 0.14		22 43 48.8		1.300712	4 29	3 52

Wahrer geozentrischer Ort.

\circ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Nov. 1	19 ^h 16 ^m 44.60	+15.54	-22° 44' 19.0	+30.2	1.300017	4 ^h 36 ^m	3 ^h 52 ^m
3	19 17 0.14	16.30	22 43 48.8	31.7	1.300712	4 29	3 52
5	19 17 16.44	17.05	22 43 17.1	33.1	1.301397	4 21	3 52
7	19 17 33.49	17.79	22 42 44.0	34.5	1.302071	4 14	3 52
9	19 17 51.28	+18.52	22 42 9.5	+35.9	1.302732	4 6	3 53
11	19 18 9.80	19.23	-22 41 33.6	37.4	1.303381	3 58	3 53
13	19 18 29.03	19.93	22 40 56.2	38.8	1.304017	3 51	3 53
15	19 18 48.96	20.60	22 40 17.4	40.1	1.304638	3 43	3 53
17	19 19 9.56	21.26	22 39 37.3	41.4	1.305244	3 36	3 53
19	19 19 30.82	+21.89	22 38 55.9	+42.8	1.305834	3 28	3 53
21	19 19 52.71	22.50	-22 38 13.1	44.1	1.306408	3 21	3 53
23	19 20 15.21	23.10	22 37 29.0	45.3	1.306966	3 13	3 53
25	19 20 38.31	23.67	22 36 43.7	46.6	1.307506	3 6	3 53
27	19 21 1.98	24.22	22 35 57.1	47.8	1.308029	2 58	3 53
29	19 21 26.20	+24.75	22 35 9.3	+49.1	1.308534	2 51	3 53
Dez. 1	19 21 50.95	25.26	-22 34 20.2	50.2	1.309020	2 43	3 53
3	19 22 16.21	25.75	22 33 30.0	51.3	1.309487	2 36	3 54
5	19 22 41.96	26.21	22 32 38.7	52.4	1.309934	2 28	3 54
7	19 23 8.17	26.66	22 31 46.3	53.5	1.310362	2 21	3 54
9	19 23 34.83	+27.08	22 30 52.8	+54.5	1.310769	2 13	3 54
11	19 24 1.91	27.47	-22 29 58.3	55.5	1.311155	2 6	3 54
13	19 24 29.38	27.85	22 29 2.8	56.6	1.311520	1 58	3 54
15	19 24 57.23	28.20	22 28 6.2	57.5	1.311864	1 51	3 54
17	19 25 25.43	28.52	22 27 8.7	58.3	1.312185	1 44	3 54
19	19 25 53.95	+28.82	22 26 10.4	+59.1	1.312484	1 36	3 54
21	19 26 22.77	29.08	-22 25 11.3	60.0	1.312760	1 29	3 55
23	19 26 51.85	29.32	22 24 11.3	60.7	1.313014	1 21	3 55
25	19 27 21.17	29.54	22 23 10.6	61.4	1.313245	1 14	3 55
27	19 27 50.71	29.73	22 22 9.2	62.0	1.313453	1 7	3 55
29	19 28 20.44	+29.90	22 21 7.2	+62.7	1.313638	0 59	3 55
31	19 28 50.34	30.04	-22 20 4.5	63.3	1.313799	0 52	3 55
33	19 29 20.38		22 19 1.2		1.313936	0 45	3 55

Wahrer geozentrischer Ort.

Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
Jan.	1	7 ^h 8 ^m 26.07	-14.47	+21° 44' 1.8	+24.9	I.461962	12 ^h 27 ^m	8 ^h 10 ^m
	3	7 8 11.60	14.49	21 44 26.7	24.7	I.461924	12 18	8 10
	5	7 7 57.11	14.51	21 44 51.4	24.9	I.461902	12 10	8 10
	7	7 7 42.60	14.51	21 45 16.3	25.0	I.461900	12 2	8 10
	9	7 7 28.09	-14.47	21 45 41.3	+25.0	I.461918	11 54	8 10
	11	7 7 13.62	14.42	+21 46 6.3	24.9	I.461954	11 46	8 10
	13	7 6 59.20	14.34	21 46 31.2	24.8	I.462009	11 38	8 10
	15	7 6 44.86	14.24	21 46 56.0	24.7	I.462082	11 30	8 10
	17	7 6 30.62	14.11	21 47 20.7	24.5	I.462173	11 22	8 10
	19	7 6 16.51	-13.96	21 47 45.2	+24.4	I.462282	11 13	8 10
	21	7 6 2.55	13.78	+21 48 9.6	24.1	I.462410	11 5	8 10
	23	7 5 48.77	13.59	21 48 33.7	23.8	I.462556	10 57	8 11
	25	7 5 35.18	13.37	21 48 57.5	23.5	I.462720	10 49	8 11
	27	7 5 21.81	13.12	21 49 21.0	23.1	I.462901	10 41	8 11
	29	7 5 8.69	-12.86	21 49 44.1	+22.8	I.463100	10 33	8 11
	31	7 4 55.83	12.58	+21 50 6.9	22.3	I.463315	10 25	8 11
Febr.	2	7 4 43.25	12.28	21 50 29.2	21.9	I.463546	10 17	8 11
	4	7 4 30.97	11.95	21 50 51.1	21.5	I.463794	10 9	8 11
	6	7 4 19.02	11.61	21 51 12.6	21.0	I.464058	10 1	8 11
	8	7 4 7.41	-11.26	21 51 33.6	+20.5	I.464337	9 52	8 11
	10	7 3 56.15	10.88	+21 51 54.1	20.0	I.464631	9 44	8 11
	12	7 3 45.27	10.49	21 52 14.1	19.5	I.464940	9 36	8 11
	14	7 3 34.78	10.08	21 52 33.6	18.8	I.465263	9 28	8 11
	16	7 3 24.70	9.65	21 52 52.4	18.2	I.465600	9 20	8 11
	18	7 3 15.05	-9.21	21 53 10.6	+17.6	I.465950	9 12	8 11
	20	7 3 5.84	8.75	+21 53 28.2	16.9	I.466313	9 4	8 11
	22	7 2 57.09	8.27	21 53 45.1	16.3	I.466688	8 56	8 11
	24	7 2 48.82	7.78	21 54 1.4	15.5	I.467075	8 48	8 11
	26	7 2 41.04	7.28	21 54 16.9	14.8	I.467472	8 40	8 11
	28	7 2 33.76	-6.78	21 54 31.7	+14.1	I.467880	8 32	8 11
März	2	7 2 26.98	6.26	+21 54 45.8	13.4	I.468298	8 24	8 11
	4	7 2 20.72	5.73	21 54 59.2	12.6	I.468725	8 16	8 11
	6	7 2 14.99	5.20	21 55 11.8	11.8	I.469161	8 8	8 11
	8	7 2 9.79	4.67	21 55 23.6	11.1	I.469605	8 0	8 11
	10	7 2 5.12	-4.12	21 55 34.7	+10.3	I.470058	7 52	8 11
	12	7 2 1.00	3.55	+21 55 45.0	9.5	I.470518	7 44	8 11
	14	7 1 57.45	2.99	21 55 54.5	8.7	I.470983	7 36	8 11
	16	7 1 54.46	2.43	21 56 3.2	7.8	I.471454	7 28	8 11
	18	7 1 52.03	1.85	21 56 11.0	7.0	I.471931	7 20	8 11
	20	7 1 50.18		21 56 18.0		I.472413	7 12	8 11

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Östl. Stunden- Winkel	Halber Tag- bogen
März 18	7 ^h 1 ^m 52.03		+21° 56' 11.0		1.471931	7 ^h 20 ^m	8 ^h 11 ^m
20	7 1 50.18	- 1.85	21 56 18.0	+ 7.0	1.472413	7 12	8 11
22	7 1 48.91	1.27	21 56 24.1	6.1	1.472898	7 5	8 11
24	7 1 48.21	0.70	21 56 29.4	5.3	1.473386	6 57	8 11
26	7 1 48.10	- 0.11	21 56 33.9	4.5	1.473878	6 49	8 11
28	7 1 48.57	+ 0.47	+21 56 37.5	+ 3.6	1.474372	6 41	8 11
30	7 1 49.63	1.06	21 56 40.3	2.8	1.474867	6 33	8 11
April 1	7 1 51.27	1.64	21 56 42.2	1.9	1.475362	6 25	8 11
3	7 1 53.48	2.21	21 56 43.2	1.0	1.475859	6 17	8 11
5	7 1 56.26	2.78	21 56 43.3	+ 0.1	1.476355	6 10	8 11
7	7 1 59.62	+ 3.36	+21 56 42.6	- 0.7	1.476850	6 2	8 11
9	7 2 3.55	3.93	21 56 41.0	1.6	1.477344	5 54	8 11
11	7 2 8.04	4.49	21 56 38.6	2.4	1.477836	5 46	8 11
13	7 2 13.10	5.06	21 56 35.3	3.3	1.478326	5 38	8 11
15	7 2 18.71	5.61	21 56 31.1	4.2	1.478813	5 30	8 11
17	7 2 24.88	+ 6.17	+21 56 26.0	- 5.1	1.479296	5 23	8 11
19	7 2 31.59	6.71	21 56 20.0	6.0	1.479776	5 15	8 11
21	7 2 38.85	7.26	21 56 13.2	6.8	1.480251	5 7	8 11
23	7 2 46.64	7.79	21 56 5.5	7.7	1.480720	4 59	8 11
25	7 2 54.96	8.32	21 55 57.0	8.5	1.481184	4 52	8 11
27	7 3 3.80	+ 8.84	+21 55 47.6	- 9.4	1.481642	4 44	8 11
29	7 3 13.14	9.34	21 55 37.4	10.2	1.482093	4 36	8 11
Mai 1	7 3 22.98	9.84	21 55 26.3	11.1	1.482537	4 28	8 11
3	7 3 33.30	10.32	21 55 14.4	11.9	1.482973	4 21	8 11
5	7 3 44.10	10.80	21 55 1.7	12.7	1.483401	4 13	8 11
7	7 3 55.37	+11.27	+21 54 48.2	-13.5	1.483821	4 5	8 11
9	7 4 7.09	11.72	21 54 33.9	14.3	1.484232	3 58	8 11
11	7 4 19.26	12.17	21 54 18.7	15.2	1.484634	3 50	8 11
13	7 4 31.86	12.60	21 54 2.7	16.0	1.485028	3 42	8 11
15	7 4 44.89	13.03	21 53 46.0	16.7	1.485411	3 35	8 11
17	7 4 58.32	+13.43	+21 53 28.5	-17.5	1.485783	3 27	8 11
19	7 5 12.15	13.83	21 53 10.2	18.3	1.486145	3 19	8 11
21	7 5 26.37	14.22	21 52 51.2	19.0	1.486496	3 12	8 11
23	7 5 40.97	14.60	21 52 31.5	19.7	1.486836	3 4	8 11
25	7 5 55.92	14.95	21 52 11.0	20.5	1.487164	2 57	8 11
27	7 6 11.22	+15.30	+21 51 49.8	-21.2	1.487479	2 49	8 11
29	7 6 26.84	15.62	21 51 27.9	21.9	1.487782	2 41	8 11
31	7 6 42.77	15.93	21 51 5.3	22.6	1.488072	2 33	8 11
Juni 2	7 6 59.00	16.23	21 50 42.1	23.2	1.488350	2 26	8 11
4	7 7 15.52	16.52	21 50 18.3	23.8	1.488615	2 18	8 11

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Juni 2	7 ^h 6 ^m 59.00	+16.52	+21° 50' 42.1	-23.8	1.488350	2 ^h 26 ^m	8 ^h II ^m
4	7 7 15.52	16.79	21 50 18.3	24.5	1.488615	2 18	8 II
6	7 7 32.31	17.05	21 49 53.8	25.1	1.488866	2 11	8 II
8	7 7 49.36	17.29	21 49 28.7	25.7	1.489104	2 3	8 II
10	7 8 6.65	+17.52	21 49 3.0	-26.3	1.489329	1 55	8 II
12	7 8 24.17	17.74	+21 48 36.7	26.8	1.489540	1 48	8 II
14	7 8 41.91	17.94	21 48 9.9	27.4	1.489737	1 40	8 IO
16	7 8 59.85	18.12	21 47 42.5	27.9	1.489919	1 33	8 IO
18	7 9 17.97	18.28	21 47 14.6	28.3	1.490086	1 25	8 IO
20	7 9 36.25	+18.44	21 46 46.3	-28.8	1.490239	1 18	8 IO
22	7 9 54.69	18.57	+21 46 17.5	29.3	1.490377	1 10	8 IO
24	7 10 13.26	18.69	21 45 48.2	29.7	1.490500	1 2	8 IO
26	7 10 31.95	18.79	21 45 18.5	30.1	1.490608	0 55	8 IO
28	7 10 50.74	18.87	21 44 48.4	30.4	1.490701	0 47	8 IO
30	7 11 9.61	+18.94	21 44 18.0	-30.8	1.490780	0 40	8 IO
Juli 2	7 11 28.55	19.00	+21 43 47.2	31.1	1.490843	0 32	8 IO
4	7 11 47.55	19.04	21 43 16.1	31.5	1.490891	0 25	8 IO
6	7 12 6.59	19.06	21 42 44.6	31.7	1.490924	0 17	8 IO
8	7 12 25.65	19.07	21 42 12.9	32.0	1.490941	0 9	8 IO
10	7 12 44.72	+19.06	21 41 40.9	-32.2	1.490943	0 2	8 IO
12	7 13 3.78	19.04	+21 41 8.7	32.3	1.490930	23 54	8 IO
14	7 13 22.82	18.99	21 40 36.4	32.5	1.490901	23 47	8 9
16	7 13 41.81	18.94	21 40 3.9	32.7	1.490857	23 39	8 9
18	7 14 0.75	18.86	21 39 31.2	32.8	1.490798	23 32	8 9
20	7 14 19.61	+18.77	21 38 58.4	-32.8	1.490723	23 24	8 9
22	7 14 38.38	18.67	+21 38 25.6	32.8	1.490633	23 16	8 9
24	7 14 57.05	18.54	21 37 52.8	32.8	1.490528	23 9	8 9
26	7 15 15.59	18.41	21 37 20.0	32.8	1.490408	23 1	8 9
28	7 15 34.00	18.26	21 36 47.2	32.8	1.490273	22 54	8 9
30	7 15 52.26	+18.09	21 36 14.4	-32.7	1.490123	22 46	8 9
Aug. 1	7 16 10.35	17.91	+21 35 41.7	32.6	1.489959	22 39	8 9
3	7 16 28.26	17.71	21 35 9.1	32.4	1.489780	22 31	8 9
5	7 16 45.97	17.49	21 34 36.7	32.2	1.489587	22 23	8 9
7	7 17 3.46	17.26	21 34 4.5	32.0	1.489380	22 16	8 9
9	7 17 20.72	+17.03	21 33 32.5	-31.8	1.489159	22 8	8 9
11	7 17 37.75	16.77	+21 33 0.7	31.4	1.488924	22 1	8 9
13	7 17 54.52	16.49	21 32 29.3	31.1	1.488676	21 53	8 9
15	7 18 11.01	16.20	21 31 58.2	30.8	1.488414	21 45	8 9
17	7 18 27.21	15.90	21 31 27.4	30.4	1.488138	21 38	8 8
19	7 18 43.11		21 30 57.0		1.487849	21 30	8 8

Wahrer geozentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Aug. 17	7 ^h 18 ^m 27.21	+15.90	+21° 31' 27.4	-30.4	I.488138	21 ^h 38 ^m	8 ^h 8 ^m
19	7 18 43.11	15.58	21 30 57.0	29.9	I.487849	21 30	8 8
21	7 18 58.69	15.25	21 30 27.1	29.5	I.487548	21 22	8 8
23	7 19 13.94	14.90	21 29 57.6	29.0	I.487234	21 15	8 8
25	7 19 28.84	+14.54	21 29 28.6	-28.5	I.486908	21 7	8 8
27	7 19 43.38	14.16	+21 29 0.1	27.9	I.486571	21 0	8 8
29	7 19 57.54	13.78	21 28 32.2	27.3	I.486222	20 52	8 8
31	7 20 11.32	13.39	21 28 4.9	26.7	I.485862	20 44	8 8
Sept. 2	7 20 24.71	12.98	21 27 38.2	26.0	I.485492	20 37	8 8
4	7 20 37.69	+12.56	21 27 12.2	-25.3	I.485111	20 29	8 8
6	7 20 50.25	12.13	+21 26 46.9	24.6	I.484720	20 21	8 8
8	7 21 2.38	11.68	21 26 22.3	23.9	I.484320	20 14	8 8
10	7 21 14.06	11.22	21 25 58.4	23.1	I.483909	20 6	8 8
12	7 21 25.28	10.76	21 25 35.3	22.2	I.483490	19 58	8 8
14	7 21 36.04	+10.28	21 25 13.1	-21.4	I.483062	19 50	8 8
16	7 21 46.32	9.79	+21 24 51.7	20.6	I.482626	19 42	8 8
18	7 21 56.11	9.29	21 24 31.1	19.7	I.482182	19 35	8 8
20	7 22 5.40	8.78	21 24 11.4	18.7	I.481731	19 27	8 8
22	7 22 14.18	8.27	21 23 52.7	17.8	I.481273	19 19	8 8
24	7 22 22.45	+7.74	21 23 34.9	-16.8	I.480810	19 12	8 8
26	7 22 30.19	7.21	+21 23 18.1	15.8	I.480341	19 4	8 7
28	7 22 37.40	6.68	21 23 2.3	14.8	I.479866	18 56	8 7
30	7 22 44.08	6.13	21 22 47.5	13.8	I.479387	18 48	8 7
Okt. 2	7 22 50.21	5.58	21 22 33.7	12.7	I.478904	18 41	8 7
4	7 22 55.79	+5.02	21 22 21.0	-11.6	I.478418	18 33	8 7
6	7 23 0.81	4.46	+21 22 9.4	10.5	I.477928	18 25	8 7
8	7 23 5.27	3.89	21 21 58.9	9.5	I.477436	18 17	8 7
10	7 23 9.16	3.33	21 21 49.4	8.4	I.476941	18 9	8 7
12	7 23 12.49	2.75	21 21 41.0	7.2	I.476445	18 2	8 7
14	7 23 15.24	+2.18	21 21 33.8	-6.1	I.475948	17 54	8 7
16	7 23 17.42	1.60	+21 21 27.7	4.9	I.475451	17 46	8 7
18	7 23 19.02	1.02	21 21 22.8	3.7	I.474955	17 38	8 7
20	7 23 20.04	+0.44	21 21 19.1	2.5	I.474459	17 30	8 7
22	7 23 20.48	-0.15	21 21 16.6	1.4	I.473965	17 22	8 7
24	7 23 20.33	-0.72	21 21 15.2	-0.2	I.473474	17 14	8 7
26	7 23 19.61	1.30	+21 21 15.0	+0.9	I.472985	17 7	8 7
28	7 23 18.31	1.87	21 21 15.9	2.1	I.472499	16 59	8 7
30	7 23 16.44	2.43	21 21 18.0	3.2	I.472017	16 51	8 7
Nov. 1	7 23 14.01	2.99	21 21 21.2	4.4	I.471540	16 43	8 7
3	7 23 11.02		21 21 25.6		I.471069	16 35	8 7

Wahrer geozentrischer Ort.

o ^b Mittl. Zeit		AR.	Dif.	Dekl.	Dif.	Log. Δ	Ostl. Stunden- Winkel	Halber Tag- bogen
Nov.	1	7 ^h 23 ^m 14.01	- 2.99	+21° 21' 21.2	+ 4.4	I.471540	16 ^h 43 ^m	8 ^h 7 ^m
	3	7 23 11.02	3.56	21 21 25.6	5.6	I.471069	16 35	8 7
	5	7 23 7.46	4.11	21 21 31.2	6.7	I.470603	16 27	8 7
	7	7 23 3.35	4.66	21 21 37.9	7.8	I.470143	16 19	8 7
	9	7 22 58.69	- 5.21	21 21 45.7	+ 8.9	I.469691	16 11	8 7
	11	7 22 53.48	5.74	+21 21 54.6	10.1	I.469246	16 3	8 7
	13	7 22 47.74	6.27	21 22 4.7	11.2	I.468809	15 55	8 7
	15	7 22 41.47	6.79	21 22 15.9	12.2	I.468381	15 47	8 7
	17	7 22 34.68	7.30	21 22 28.1	13.2	I.467963	15 39	8 7
	19	7 22 27.38	- 7.79	21 22 41.3	+14.3	I.467555	15 31	8 7
	21	7 22 19.59	8.27	+21 22 55.6	15.3	I.467158	15 23	8 7
	23	7 22 11.32	8.74	21 23 10.9	16.2	I.466772	15 15	8 7
	25	7 22 2.58	9.19	21 23 27.1	17.1	I.466398	15 7	8 8
	27	7 21 53.39	9.63	21 23 44.2	18.0	I.466036	14 59	8 8
29	7 21 43.76	-10.05	21 24 2.2	+18.9	I.465686	14 51	8 8	
Dez.	1	7 21 33.71	10.46	+21 24 21.1	19.7	I.465350	14 43	8 8
	3	7 21 23.25	10.85	21 24 40.8	20.5	I.465028	14 35	8 8
	5	7 21 12.40	11.22	21 25 1.3	21.3	I.464720	14 27	8 8
	7	7 21 1.18	11.58	21 25 22.6	22.1	I.464426	14 19	8 8
	9	7 20 49.60	-11.93	21 25 44.7	+22.8	I.464147	14 11	8 8
	11	7 20 37.67	12.25	+21 26 7.5	23.4	I.463884	14 3	8 8
	13	7 20 25.42	12.55	21 26 30.9	24.1	I.463637	13 54	8 8
	15	7 20 12.87	12.84	21 26 55.0	24.7	I.463406	13 46	8 8
	17	7 20 0.03	13.09	21 27 19.7	25.2	I.463191	13 38	8 8
	19	7 19 46.94	-13.33	21 27 44.9	+25.8	I.462994	13 30	8 8
	21	7 19 33.61	13.54	+21 28 10.7	26.2	I.462814	13 22	8 8
	23	7 19 20.07	13.74	21 28 36.9	26.6	I.462652	13 14	8 8
	25	7 19 6.33	13.90	21 29 3.5	26.9	I.462506	13 6	8 8
	27	7 18 52.43	14.05	21 29 30.4	27.2	I.462379	12 58	8 8
29	7 18 38.38	-14.18	21 29 57.6	+27.4	I.462271	12 50	8 8	
31	7 18 24.20	14.29	+21 30 25.0	27.7	I.462183	12 41	8 8	
33	7 18 9.91		21 30 52.7		I.462111	12 33	8 8	

MERKUR 1909.

Mittlere Ekliptik und Äquinoktium 1910.0.

o ^h	Log.	Länge	Red.	Breite	o ^h	Log.	Länge	Red.	Breite		
Mittl. Zeit	Rad. v.	in d. Bahn	a. d. Ekl.		Mittl. Zeit	Rad. v.	in d. Bahn	a. d. Ekl.			
Jan.	2	9.6391	299° 40'	- 7	-6° 40'	Juli	6	9.5923	331° 24'	+ 6	-6° 47'
	7	9.6158	316 19	0	-7 0		11	9.5590	352 34	+12	-5 43
	12	9.5863	335 8	+ 8	-6 40		16	9.5250	17 21	+11	-3 29
	17	9.5525	356 55	+13	-5 23		21	9.4980	45 57	+ 1	-0 10
	22	9.5191	22 26	+10	-2 56		26	9.4879	77 13	-11	+3 29
Febr.	27	9.4945	51 41	- 2	+0 32	31	9.4995	108 21	-11	+6 8	
	1	9.4884	83 10	-12	+4 6	Aug.	5	9.5274	136 42	0	+7 0
	6	9.5038	113 57	- 9	+6 26		10	9.5616	161 12	+10	+6 24
	11	9.5336	141 36	+ 2	+6 59		15	9.5945	182 8	+13	+4 57
	16	9.5680	165 22	+11	+6 10		20	9.6225	200 18	+10	+3 10
21	9.6002	185 44	+13	+4 38	25		9.6440	216 31	+ 5	+1 18	
März	26	9.6270	203 29	+ 9	+2 49	30	9.6589	231 25	- 2	-0 30	
	3	9.6473	219 24	+ 3	+0 57	Sept.	4	9.6671	245 33	- 8	-2 12
	8	9.6610	234 7	- 3	-0 50		9	9.6688	259 21	-12	-3 43
	13	9.6680	248 9	- 9	-2 29		14	9.6640	273 16	-13	-5 2
	18	9.6684	261 57	-12	-3 59		19	9.6526	287 42	-11	-6 5
23	9.6624	275 55	-13	-5 15	24		9.6345	303 9	- 6	-6 47	
April	28	9.6497	290 30	-10	-6 15	29	9.6098	320 13	+ 1	-7 0	
	2	9.6304	306 13	- 5	-6 52	Okt.	4	9.5792	339 36	+ 9	-6 29
	7	9.6044	323 39	+ 3	-6 58		9	9.5450	2 9	+13	-4 57
	12	9.5729	343 35	+10	-6 16		14	9.5126	28 31	+ 8	-2 15
	17	9.5384	6 49	+13	-4 32		19	9.4913	58 27	- 5	+1 21
22	9.5074	33 54	+ 6	-1 37	24		9.4901	90 3	-13	+4 45	
Mai	27	9.4894	64 21	- 7	+2 3	29	9.5094	120 18	- 7	+6 42	
	2	9.4923	95 55	-13	+5 15	Nov.	3	9.5410	147 7	+ 4	+6 54
	7	9.5147	125 38	- 5	+6 51		8	9.5754	170 5	+12	+5 53
	12	9.5475	151 43	+ 6	+6 47		13	9.6066	189 48	+12	+4 15
	17	9.5816	174 1	+12	+5 36		18	9.6320	207 5	+ 8	+2 25
22	9.6119	193 12	+12	+3 55	23		9.6509	222 42	+ 2	+0 33	
Juni	27	9.6361	210 8	+ 7	+2 4	28	9.6631	237 13	- 4	-1 12	
	1	9.6537	225 29	+ 1	+0 13	Dez.	3	9.6686	251 10	-10	-2 50
	6	9.6646	239 52	- 5	-1 31		8	9.6677	264 58	-12	-4 17
	11	9.6689	253 45	-10	-3 7		13	9.6602	279 2	-13	-5 30
	16	9.6668	267 34	-13	-4 31		18	9.6461	293 49	- 9	-6 25
21	9.6581	281 43	-12	-5 42	23		9.6253	309 51	- 3	-6 57	
Juli	26	9.6427	296 43	- 8	-6 33	28	9.5980	327 46	+ 5	-6 53	
	1	9.6206	313 3	- 2	-6 59	33	9.5655	348 20	+11	-6 0	
	6	9.5923	331 24	+ 6	-6 47	38	9.5312	12 23	+12	-4 0	

$$\Omega = 47^\circ 15'.9; \quad i = 7^\circ 0'.19; \quad m = \frac{1}{6000000}$$

HELIOZENTR. PLANETENKOORDINATEN. 145

VENUS 1909.

Mittl. Ekliptik und Äquin. 1910.0.

α Mittl. Zeit	Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite
Jan. - 3	9.85852	204° 59.7	+3.0	+2° 37.9
7	9.85934	221 2.8	+2.8	+1 56.2
17	9.86016	237 2.2	+1.8	+1 5.7
27	9.86091	252 58.1	+0.3	+0 10.3
Febr. 6	9.86153	268 51.0	-1.3	-0 45.7
16	9.86199	284 41.5	-2.5	-1 38.1
26	9.86224	300 30.5	-3.0	-2 23.0
März 8	9.86227	316 18.8	-2.6	-2 57.1
18	9.86208	332 7.5	-1.4	-3 17.8
28	9.86167	347 57.5	+0.2	-3 23.5
April 7	9.86108	3 49.7	+1.8	-3 13.7
17	9.86037	19 44.8	+2.8	-2 49.0
27	9.85957	35 43.2	+3.0	-2 11.3
Mai 7	9.85874	51 45.3	+2.2	-1 23.2
17	9.85796	67 51.0	+0.8	-0 28.4
27	9.85729	83 59.9	-0.8	+0 28.8
Juni 6	9.85677	100 11.5	-2.3	+1 23.8
16	9.85646	116 25.0	-3.0	+2 12.3
26	9.85637	132 39.4	-2.8	+2 50.3
Juli 6	9.85652	148 53.6	-1.7	+3 14.7
16	9.85689	165 6.7	-0.1	+3 23.6
26	9.85745	181 17.7	+1.5	+3 16.3
Aug. 5	9.85816	197 25.8	+2.7	+2 53.5
15	9.85895	213 30.6	+3.0	+2 17.2
25	9.85978	229 31.7	+2.4	+1 30.3
Sept. 4	9.86057	245 29.2	+1.1	+0 36.7
14	9.86126	261 23.5	-0.6	-0 19.6
24	9.86180	277 15.0	-2.0	-1 14.2
Okt. 4	9.86215	293 4.6	-2.9	-2 3.1
14	9.86228	308 53.1	-2.9	-2 42.6
24	9.86219	324 41.5	-2.0	-3 9.8
Nov. 3	9.86188	340 30.8	-0.6	-3 22.7
13	9.86138	356 21.9	+1.1	-3 20.2
23	9.86071	12 15.6	+2.4	-3 2.4
Dez. 3	9.85994	28 12.5	+3.0	-2 30.5
13	9.85912	44 12.8	+2.7	-1 46.8
23	9.85831	60 16.8	+1.6	-0 54.7
33	9.85758	76 24.3	-0.1	+0 1.9

ERDE 1909.

Mittl. Äqu. 1910.0.

Log. Radius vect.	Länge
9.99270	96° 22.6
9.99268	106 34.0
9.99293	116 45.2
9.99337	126 55.7
9.99400	137 4.3
9.99485	147 11.0
9.99582	157 15.4
9.99691	167 16.5
9.99812	177 14.6
9.99935	187 9.5
0.00059	197 0.7
0.00184	206 48.7
0.00299	216 33.6
0.00405	226 15.2
0.00503	235 54.2
0.00582	245 31.0
0.00645	255 5.6
0.00692	264 38.9
0.00716	274 11.4
0.00720	283 43.3
0.00707	293 15.4
0.00670	302 48.4
0.00615	312 22.2
0.00544	321 57.9
0.00455	331 35.9
0.00353	341 16.0
0.00242	350 59.3
0.00121	0 45.8
9.99996	10 35.3
9.99874	20 28.5
9.99750	30 25.0
9.99635	40 24.5
9.99533	50 27.4
9.99440	60 33.0
9.99367	70 40.6
9.99314	80 50.3
9.99278	91 1.2
9.99267	101 12.4

$$\Omega = 75^\circ 52'.3; \quad i = 3^\circ 23'.6; \quad m = \frac{1}{408000}$$

$$m = \frac{1}{329390}$$

146 HELIOZENTR. PLANETENKOORDINATEN.

MARS 1909.

Mittlere Ekliptik und Äquinoktium 1910.0.

ob Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite
Jan. - 3	0.20506	206° 1.4	+0.6	+0° 43.1
7	0.20219	210 45.9	+0.5	+0 34.5
17	0.19913	215 34.3	+0.4	+0 25.5
27	0.19590	220 27.0	+0.3	+0 16.2
Febr. 6	0.19253	225 24.1	+0.1	+0 6.7
16	0.18902	230 26.0	0.0	-0 3.0
26	0.18541	235 32.9	-0.2	-0 12.9
März 8	0.18171	240 44.9	-0.4	-0 22.9
18	0.17796	246 2.3	-0.5	-0 32.8
28	0.17418	251 25.4	-0.6	-0 42.6
April 7	0.17042	256 54.2	-0.7	-0 52.2
17	0.16670	262 28.6	-0.8	-1 1.5
27	0.16307	268 8.7	-0.9	-1 10.3
Mai 7	0.15957	273 54.5	-0.9	-1 18.6
17	0.15624	279 45.7	-0.9	-1 26.2
27	0.15312	285 42.2	-0.8	-1 32.9
Juni 6	0.15025	291 43.7	-0.7	-1 38.8
16	0.14768	297 49.8	-0.6	-1 43.6
26	0.14544	303 59.9	-0.4	-1 47.3
Juli 6	0.14357	310 13.5	-0.3	-1 49.8
16	0.14210	316 30.1	-0.1	-1 50.9
26	0.14105	322 48.8	+0.1	-1 50.7
Aug. 5	0.14045	329 8.9	+0.3	-1 49.2
15	0.14030	335 29.8	+0.5	-1 46.4
25	0.14060	341 50.5	+0.6	-1 42.2
Sept. 4	0.14135	348 10.2	+0.7	-1 36.8
14	0.14254	354 28.3	+0.8	-1 30.3
24	0.14415	0 43.9	+0.9	-1 22.7
Okt. 4	0.14615	6 56.5	+0.9	-1 14.2
14	0.14850	13 5.3	+0.9	-1 4.9
24	0.15117	19 9.9	+0.8	-0 55.0
Nov. 3	0.15413	25 9.8	+0.7	-0 44.6
13	0.15733	31 4.6	+0.5	-0 33.9
23	0.16072	36 54.0	+0.4	-0 23.0
Dez. 3	0.16427	42 37.9	+0.2	-0 12.0
13	0.16793	48 16.2	0.0	-0 1.1
23	0.17167	53 48.7	-0.2	+0 9.6
33	0.17544	59 15.5	-0.3	+0 20.0

$$\Omega = 48^\circ 52'.0; \quad i = 1^\circ 51'.0; \quad m = \frac{1}{3093500}$$

JUPITER 1909.

Mittlere Ekliptik und Äquinoktium 1910.0.

o ^a Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B.
Jan. -3	0.732069	154° 48' 3.6	-25.2	+1° 4' 33.8	+3.9
7	0.732247	155 34 20.3	-24.9	+1 5 9.6	+3.9
17	0.732422	156 20 34.7	-24.6	+1 5 44.6	+3.9
27	0.732594	157 6 46.8	-24.3	+1 6 18.9	+3.9
Febr. 6	0.732762	157 52 56.8	-24.0	+1 6 52.5	+3.9
16	0.732927	158 39 4.7	-23.7	+1 7 25.3	+3.9
26	0.733089	159 25 10.5	-23.3	+1 7 57.4	+3.9
März 8	0.733248	160 11 14.2	-23.0	+1 8 28.7	+3.9
18	0.733403	160 57 16.0	-22.6	+1 8 59.2	+3.9
28	0.733555	161 43 15.8	-22.2	+1 9 28.9	+3.9
April 7	0.733703	162 29 13.7	-21.8	+1 9 57.9	+3.9
17	0.733848	163 15 9.7	-21.4	+1 10 26.2	+3.8
27	0.733990	164 1 4.0	-20.9	+1 10 53.7	+3.8
Mai 7	0.734128	164 46 56.4	-20.5	+1 11 20.4	+3.8
17	0.734263	165 32 47.1	-20.0	+1 11 46.3	+3.8
27	0.734394	166 18 36.2	-19.5	+1 12 11.4	+3.8
Juni 6	0.734521	167 4 23.7	-19.0	+1 12 35.7	+3.8
16	0.734645	167 50 9.5	-18.5	+1 12 59.3	+3.8
26	0.734766	168 35 53.8	-18.0	+1 13 22.1	+3.8
Juli 6	0.734883	169 21 36.5	-17.5	+1 13 44.1	+3.7
16	0.734996	170 7 17.8	-16.9	+1 14 5.3	+3.7
26	0.735106	170 52 57.7	-16.3	+1 14 25.7	+3.7
Aug. 5	0.735212	171 38 36.3	-15.7	+1 14 45.3	+3.7
15	0.735315	172 24 13.5	-15.2	+1 15 4.1	+3.7
25	0.735414	173 9 49.5	-14.6	+1 15 22.1	+3.6
Sept. 4	0.735509	173 55 24.2	-14.0	+1 15 39.3	+3.6
14	0.735601	174 40 57.7	-13.3	+1 15 55.7	+3.6
24	0.735689	175 26 30.1	-12.7	+1 16 11.3	+3.6
Okt. 4	0.735773	176 12 1.5	-12.1	+1 16 26.1	+3.6
14	0.735854	176 57 31.8	-11.5	+1 16 40.0	+3.6
24	0.735931	177 43 1.0	-10.8	+1 16 53.2	+3.5
Nov. 3	0.736004	178 28 29.3	-10.2	+1 17 5.5	+3.5
13	0.736073	179 13 56.8	-9.5	+1 17 17.1	+3.4
23	0.736139	179 59 23.4	-8.8	+1 17 27.8	+3.4
Dez. 3	0.736201	180 44 49.2	-8.1	+1 17 37.7	+3.4
13	0.736259	181 30 14.3	-7.5	+1 17 46.7	+3.4
23	0.736314	182 15 38.7	-6.8	+1 17 55.0	+3.3
33	0.736365	183 1 2.4	-6.1	+1 18 2.5	+3.3

$\Omega = 99^\circ 32' 41''.4; \quad i = 1^\circ 18' 29''.7; \quad m = \frac{1}{1047.355}$

148 HELIOZENTR. PLANETENKOORDINATEN.

Mittlere Ekliptik und Äquinoktium 1900.

α^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B.
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SATURN 1909.

1908 Dez. 28	0.974701	9° 48' 18.2	-43.1	-2° 25' 34.0	+4.7
1909 Febr. 6	0.974141	11 10 19.0	-38.8	-2 26 20.2	+4.5
März 18	0.973582	12 32 32.3	-34.4	-2 27 1.5	+4.2
April 27	0.973025	13 54 58.2	-30.0	-2 27 37.9	+3.9
Juni 6	0.972471	15 17 36.6	-25.6	-2 28 9.2	+3.6
Juli 16	0.971919	16 40 27.5	-21.0	-2 28 35.4	+3.4
Aug. 25	0.971370	18 3 30.9	-16.4	-2 28 56.5	+3.1
Okt. 4	0.970825	19 26 46.8	-11.7	-2 29 12.4	+2.9
Nov. 13	0.970283	20 50 15.1	-7.0	-2 29 23.0	+2.6
Dez. 23	0.969745	22 13 55.8	-2.2	-2 29 28.4	+2.5
63	0.969211	23 37 48.7	+2.5	-2 29 28.4	+2.1

$$\Omega = 112^\circ 52' 26''.8; \quad i = 2^\circ 29' 31''.3; \quad m = \frac{1}{3501.6}$$

URANUS 1909.

1908 Dez. 28	1.291651	286° 54' 22.1	-8.6	-0° 25' 27.3	+3.1
1909 Febr. 6	1.291799	287 21 21.8	-8.7	-0 25 45.4	+3.1
März 18	1.291947	287 48 20.5	-8.7	-0 26 3.5	+3.1
April 27	1.292095	288 15 18.2	-8.8	-0 26 21.5	+3.1
Juni 6	1.292242	288 42 14.9	-8.8	-0 26 39.4	+3.1
Juli 16	1.292389	289 9 10.7	-8.9	-0 26 57.1	+3.0
Aug. 25	1.292535	289 36 5.4	-8.9	-0 27 14.8	+3.1
Okt. 4	1.292680	290 2 59.2	-9.0	-0 27 32.3	+3.1
Nov. 13	1.292825	290 29 52.0	-9.0	-0 27 49.8	+3.1
Dez. 23	1.292970	290 56 44.0	-9.0	-0 28 7.1	+3.1
63	1.293113	291 23 35.0	-9.1	-0 28 24.3	+3.1

$$\Omega = 73^\circ 32'; \quad i = 0^\circ 46' 22''; \quad m = \frac{1}{22869}$$

NEPTUN 1909.

1908 Dez. 28	1.476393	105° 39' 59.4	+38.3	-0° 45' 17.7	-0.6
1909 Febr. 6	1.476405	105 54 28.8	+38.0	-0 44 53.3	-0.7
März 18	1.476417	106 8 58.2	+37.7	-0 44 28.8	-0.7
April 27	1.476428	106 23 27.4	+37.4	-0 44 4.3	-0.8
Juni 6	1.476440	106 37 56.5	+37.1	-0 43 39.8	-0.8
Juli 16	1.476451	106 52 25.5	+36.8	-0 43 15.2	-0.8
Aug. 25	1.476463	107 6 54.4	+36.5	-0 42 50.5	-0.8
Okt. 4	1.476474	107 21 23.1	+36.2	-0 42 25.8	-0.9
Nov. 13	1.476486	107 35 51.7	+35.9	-0 42 1.1	-0.9
Dez. 23	1.476497	107 50 20.1	+35.7	-0 41 36.3	-0.9
63	1.476508	108 4 48.4	+35.4	-0 41 11.5	-1.0

$$\Omega = 130^\circ 47'; \quad i = 1^\circ 46' 42''; \quad m = \frac{1}{19314}$$

Nr.	Name	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001
1	α Androm.	2.1	0 ^h 3 ^m 40.862	+3.0948	+ 106	+28° 35' 16.94	+19.884	- 161
2	β Cassiopejae	2.2	0 4 18.891	+3.1806	+ 674	+58 38 52.21	+19.864	- 179
3	ε Phoenicis	3.8	0 4 47.660	+3.0533	+ 99	-46 14 58.60	+19.848	- 193
4	[22 Androm.]	5.2	0 5 35.176	+3.1065	+ 8	+45 33 56.97	+20.038	- 3
5	[α ² Sculptoris]	5.5	0 6 57.257	+3.0510	+ 4	-28 18 24.28	+20.042	+ 5
6	[θ Sculptoris]	5.3	0 7 6.479	+3.0532	+ 105	-35 38 33.30	+20.161	+ 124
7	γ Pegasi	2.7	0 8 32.887	+3.0856	+ 1	+14 40 39.44	+20.020	- 14
8	[Br. 6]	6.5	0 11 3.261	+3.3464	+ 67	+76 26 42.41	+20.024	+ 2
9	ι Ceti	3.5	0 14 47.491	+3.0568	- 15	- 9 19 42.24	+19.974	- 32
10	ζ Tucanae	4.2	0 15 20.074	+3.1486	+2713	-65 24 34.76	+21.154	+1153
11	β Hydri	2.8	0 20 59.024	+3.2124	+7035	-77 46 0.20	+20.280	+ 318
12	α Phoenicis	2.3	0 21 47.241	+2.9718	+ 168	-42 48 0.96	+19.546	- 409
13	ι ₂ Ceti	6.1	0 25 23.685	+3.0616	+ 8	- 4 27 36.36	+19.915	- 8
14	[Ceti 49 G.]	5.3	0 25 49.729	+3.0022	- 25	-24 17 28.04	+19.928	+ 9
15	[λ ¹ Phoenicis]	4.7	0 27 1.683	+2.9019	+ 122	-49 18 24.52	+19.919	+ 12
16	[α Cassiop.]	4.2	0 27 49.140	+3.3835	+ 11	+62 25 46.71	+19.902	+ 3
17	ζ Cassiopejae	3.8	0 31 53.694	+3.3242	+ 23	+53 23 46.24	+19.846	- 7
18	π Androm.	4.2	0 32 1.027	+3.1960	+ 17	+33 13 6.51	+19.852	0
19	[ε Androm.]	4.3	0 33 44.624	+3.1632	- 172	+28 49 3.89	+19.580	- 251
20	δ Androm.	3.2	0 34 27.505	+3.2002	+ 106	+30 21 47.35	+19.740	- 84
21	α Cassiopejae	(2.2)	0 35 20.155	+3.3830	+ 60	+56 2 18.15	+19.778	- 29
22	β Ceti	2.2	0 39 1.330	+3.0128	+ 161	-18 29 9.65	+19.796	+ 39
23	[η Phoenicis]	4.3	0 39 16.093	+2.7088	+ 5	-57 57 43.94	+19.745	- 9
24	21 Cassiopejae	5.8	0 39 37.253	+3.8954	- 56	+74 29 26.65	+19.724	- 23
25	ο Cassiopejae	4.7	0 39 38.934	+3.3283	+ 22	+47 47 11.08	+19.739	- 8
26	[λ ² Sculptoris]	5.9	0 39 48.129	+2.9039	+ 179	-38 55 22.99	+19.859	+ 114
27	ζ Androm.	4.1	0 42 30.736	+3.1736	- 75	+23 46 20.06	+19.625	- 79
28	[δ Piscium]	4.4	0 43 57.578	+3.1094	+ 44	+ 7 5 23.71	+19.634	- 46
29	[Br. 82]	5.7	0 45 11.746	+3.6094	+ 59	+63 45 8.13	+19.654	- 4
31	[λ Hydri]	5.3	0 45 26.290	+2.1010	+ 402	-75 25 7.54	+19.628	- 26
30	[19 Ceti]	5.4	0 45 34.126	+3.0046	- 159	-11 8 3.49	+19.429	- 223
32	γ Cassiopejae	2.0	0 51 12.440	+3.5938	+ 37	+60 13 26.80	+19.544	- 4
34	[λ Tucanae]	5.3	0 51 36.352	+2.2486	- 33	-70 1 8.90	+19.495	- 45
33	μ Androm.	3.9	0 51 41.874	+3.3188	+ 129	+38 0 21.35	+19.576	+ 36
35	α Sculptoris	4.1	0 54 13.280	+2.8923	- 5	-29 50 57.22	+19.482	- 6

Nr.	Name	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
36	ε Piscium	4.2	0 58 ^m 13.129	+3.1106	— 55	+ 7 24 1.42	+19.434	+ 30
37	[26 Ceti]	6.2	0 59 7.974	+3.0858	+ 81	+ 0 52 45.07	+19.344	— 38
38	β Phoenicis	3.2	I 2 1.396	+2.6810	— 57	—47 12 21.76	+19.300	— 16
39	[ι Tucanae]	5.5	I 3 42.510	+2.3853	+ 102	—62 15 40.33	+19.273	— 4
40	[η Ceti]	3.3	I 4 0.691	+3.0169	+ 138	—10 39 52.19	+19.138	—131
41	[44 H. Ceph.]	5.7	I 4 22.523	+5.0455	+ 331	+79 11 23.45	+19.270	+ 9
42	β Androm.	2.1	I 4 37.967	+3.3492	+ 151	+35 8 17.98	+19.144	—112
43	[τ Piscium]	4.3	I 6 38.704	+3.2958	+ 56	+29 36 23.90	+19.164	— 41
44	[Sculpt. 102 G.]	6.0	I 8 33.853	+2.7649	+ 39	—38 20 18.99	+19.128	— 27
45	υ Piscium	4.6	I 14 27.680	+3.2894	+ 15	+26 47 9.42	+18.988	— 11
47	θ Ceti	3.4	I 19 28.468	+2.9978	— 55	— 8 39 9.83	+18.639	—214
46	[ψ Cassiop.]	5.0	I 19 29.415	+4.1909	+ 134	+67 39 19.26	+18.886	+ 33
48	δ Cassiopejae	2.7	I 19 51.195	+3.8946	+ 397	+59 45 45.40	+18.800	— 43
49	[γ Phoenicis]	3.2	I 24 24.817	+2.6075	— 38	—43 47 3.58	+18.484	—218
50	η Piscium	3.6	I 26 36.690	+3.2050	+ 15	+14 52 36.82	+18.625	— 7
51	40 Cassiopejae	5.5	I 31 13.398	+4.7212	— 19	+72 34 35.69	+18.473	— 6
52	υ Persei	3.6	I 32 24.008	+3.6646	+ 64	+48 10 2.77	+18.326	—113
53	[Hydri 14 G.]	6.3	I 33 2.339	+0.3592	— 68	—78 58 0.24	+18.288	—129
54	α Eridani	I	I 34 19.615	+2.2390	+ 122	—57 41 56.06	+18.335	— 37
55	43 Cassiopejae	5.9	I 35 35.175	+4.3936	+ 88	+67 34 59.27	+18.326	— 2
56	[ν Piscium]	4.5	I 36 41.648	+3.1189	— 16	+ 5 1 38.38	+18.290	+ 2
57	φ Persei	4.1	I 37 56.991	+3.7407	+ 26	+50 13 50.17	+18.228	— 15
58	[Sculpt. 129 G.]	5.8	I 38 2.271	+2.6445	— 58	—37 17 28.24	+18.217	— 23
59	τ Ceti	3.4	I 39 50.421	+2.7864	—1198	—16 24 59.63	+19.020	+848
60	ο Piscium	4.3	I 40 35.181	+3.1639	+ 47	+ 8 42 0.05	+18.198	+ 50
61	Lac. ε Sculpt.	5.3	I 41 23.002	+2.8096	+ 100	—25 30 26.52	+18.043	— 75
62	ζ Ceti	3.5	I 46 58.082	+2.9602	+ 22	—10 47 3.78	+17.868	— 34
63	ε Cassiopejae	3.3	I 47 50.193	+4.2780	+ 50	+63 13 20.38	+17.854	— 15
64	α Triang.	3.5	I 47 53.426	+3.4116	+ 12	+29 8 8.93	+17.634	—233
65	ξ Piscium	4.6	I 48 50.584	+3.1030	+ 13	+ 2 44 18.75	+17.848	+ 19
66	β Arietis	2.7	I 49 36.597	+3.3074	+ 66	+20 21 48.65	+17.689	—109
67	ψ Phoenicis	4.5	I 49 59.900	+2.4071	— 95	—46 44 53.78	+17.681	—101
68	χ Eridani	3.6	I 52 24.968	+2.3363	+ 713	—52 3 42.50	+17.954	+271
69	[7 ^h Hydri]	4.7	I 52 37.641	+1.5161	+ 120	—68 5 41.23	+17.753	+ 79
70	50 Cassiopejae	4.0	I 55 38.566	+5.0498	— 90	+71 58 53.11	+17.572	+ 25

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.000	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.000
71	υ Ceti	3.9	1 ^h 55 ^m 43.038	+2.8266	+ 91	-21° 31' 6.56	+17.532	- 14
72	α Hydri	2.9	1 55 54.117	+1.8905	+362	-62 0 44.99	+17.558	+ 21
73	γ Androm.	2.1	1 58 18.484	+3.6685	+ 43	+41 53 36.13	+17.381	- 54
74	α Arietis	2.0	2 2 2.409	+3.3746	+138	+23 1 57.08	+17.130	-143
75	β Triang.	3.0	2 4 7.449	+3.5590	+122	+34 33 26.02	+17.139	- 40
76	55 Cassiopejæ	6.3	2 7 19.628	+4.6620	- 10	+66 5 54.16	+17.034	+ 3
77	[6 Persei]	5.7	2 7 32.754	+3.9698	+367	+50 38 36.47	+16.854	-169
78	Lac. μ Forn.	5.2	2 8 54.061	+2.6430	+ 13	-31 9 1.61	+16.960	- 2
79	[γ Triang.]	4.2	2 11 54.008	+3.5564	+ 37	+33 25 36.33	+16.775	- 44
80	67 Ceti	5.8	2 12 26.613	+2.9904	+ 55	- 6 50 28.27	+16.684	-109
81	[θ Arietis]	5.7	2 13 3.657	+3.3308	- 9	+19 28 49.95	+16.760	- 2
82	[φ Eridani]	3.5	2 13 15.467	+2.1434	+ 82	-51 55 59.68	+16.716	- 36
83	[z Fornacis]	5.4	2 18 22.715	+2.7453	+142	-24 13 46.39	+16.439	- 63
84	[λ Horologii]	5.5	2 22 21.213	+1.6761	- 94	-60 43 8.82	+16.164	-138
85	ξ Ceti	4.2	2 23 19.129	+3.1858	+ 26	+ 8 3 9.17	+16.249	- 4
86	[z Eridani]	4.1	2 23 38.917	+2.1984	- 1	-48 6 43.62	+16.212	- 23
88	[λ ¹ Fornacis]	6.0	2 29 19.287	+2.4997	- 43	-35 3 0.19	+15.907	- 32
87	36 H. Cassiop.	5.4	2 29 21.515	+5.6251	- 60	+72 25 15.32	+15.959	+ 21
90	η Hydri	5.5	2 33 34.741	-1.3607	+478	-79 30 23.36	+15.680	- 32
89	ν Arietis	5.6	2 33 38.754	+3.3998	- 9	+21 34 5.99	+15.693	- 16
91	δ Ceti	3.9	2 34 49.002	+3.0722	+ 7	- 0 3 49.22	+15.642	- 2
92	[Br. 366]	6.3	2 36 58.889	+5.1100	+ 26	+67 26 19.00	+15.496	- 29
93	θ Persei	4.1	2 37 58.664	+4.0794	+346	+48 50 38.58	+15.384	- 88
94	[35 Arietis]	4.7	2 38 6.485	+3.5123	+ 4	+27 19 13.35	+15.456	- 7
95	[ε Hydri]	4.0	2 38 11.156	+0.9118	+167	-68 39 24.42	+15.463	+ 5
96	[γ Ceti]	3.4	2 38 35.026	+3.1052	- 98	+ 2 51 9.67	+15.287	-149
97	π Ceti	4.0	2 39 47.469	+2.8538	- 8	-14 14 37.39	+15.360	- 9
98	μ Ceti	4.2	2 40 1.244	+3.2387	+189	+ 9 43 49.19	+15.326	- 30
99	[η Persei]	3.8	2 44 3.022	+4.3522	+ 28	+55 31 6.17	+15.116	- 11
100	41 Arietis	3.6	2 44 37.436	+3.5236	+ 51	+26 53 9.22	+14.982	-113
101	β Fornacis	4.4	2 45 16.900	+2.5103	+ 61	-32 47 15.95	+15.213	+158
102	τ ² Eridani	4.8	2 46 54.633	+2.7204	- 39	-21 22 43.93	+14.932	- 30
103	τ Persei	4.0	2 47 47.902	+4.2324	+ 3	+52 23 26.16	+14.908	- 1
104	η Eridani	3.7	2 51 58.859	+2.9292	+ 52	- 9 15 35.80	+14.445	-218
105	47 H. Cephei	5.8	2 53 56.832	+7.8195	-113	+79 3 36.67	+14.565	+ 21

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einb. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einb. von 0°.001
106	θ Eridani	2.9	2 ^a 54 ^m 48.572	+2.2724	- 68	-40° 40' 8.18	+14.520	+ 28
107	α Ceti	2.5	2 57 31.249	+3.1326	- 9	+ 3 43 59.33	+14.252	- 76
108	γ Persei	3.0	2 58 11.883	+4.3236	+ 2	+53 9 2.29	+14.282	- 4
109	ρ Persei	(3.8)	2 59 20.427	+3.8330	+ 115	+38 29 17.55	+14.114	-103
110	μ Horologii	5.1	3 1 27.997	+1.4075	- 118	-60 5 25.97	+14.015	- 68
113	[θ Hydri]	5.7	3 2 3.617	+0.0976	+ 51	-72 15 27.98	+14.070	+ 23
111	β Persei	(2.2)	3 2 14.581	+3.8912	+ 7	+40 36 20.24	+14.034	- 1
112	[ι Persei]	4.1	3 2 29.580	+4.3105	+1295	+49 15 58.54	+13.949	- 80
114	δ Arietis	4.3	3 6 25.361	+3.4248	+106	+19 22 58.95	+13.769	- 3
116	[94 Ceti]	5.2	3 8 7.738	+3.0600	+ 137	- 1 32 9.81	+13.602	- 61
117	12 Eridani	3.6	3 8 12.271	+2.5464	+ 235	-29 20 43.66	+14.305	+645
115	48 H. Cephei	5.9	3 8 44.282	+7.4770	+182	+77 24 5.52	+13.582	- 44
118	[Horol. 38 G.]	6.1	3 10 14.676	+1.5141	- 5	-57 39 43.72	+13.519	- 6
119	[ε Eridani]	4.2	3 16 17.647	+2.3960	+2789	-43 25 3.48	+13.871	+739
120	α Persei	1.9	3 17 49.181	+4.2660	+ 29	+49 32 16.47	+13.006	- 26
121	ο Tauri	3.6	3 19 54.861	+3.2249	- 44	+ 8 42 32.67	+12.815	- 76
122	2 H. Camelop.	4.4	3 21 41.452	+4.8298	- 1	+59 37 26.26	+12.778	+ 7
123	[ξ Tauri]	3.6	3 22 14.122	+3.2476	+ 39	+ 9 24 56.96	+12.691	- 45
124	[σ Persei]	4.8	3 24 9.191	+4.2148	+ 9	+47 40 54.16	+12.628	+ 23
125	f Tauri	4.1	3 25 50.811	+3.3079	+ 13	+12 37 30.96	+12.484	- 5
126	[x Reticuli]	4.8	3 27 47.032	+1.0354	+ 513	-63 15 29.44	+12.719	+362
127	ε Eridani	3.5	3 28 38.553	+2.8251	- 658	- 9 45 57.35	+12.305	+ 9
128	[Horol. 45 G.]	5.8	3 29 51.766	+1.7832	+ 49	-50 41 13.63	+12.293	+ 82
130	[y Eridani]	4.5	3 33 49.703	+2.1515	- 16	-40 34 22.08	+11.912	- 24
129	[Gr. 716]	5.4	3 34 14.896	+5.1735	- 21	+62 55 21.13	+11.928	+ 22
131	δ Persei	3.0	3 36 26.423	+4.2572	+ 32	+47 29 50.00	+11.718	- 35
132	[ο Persei]	3.9	3 38 36.529	+3.7546	+ 8	+32 0 1.78	+11.581	- 17
133	[θ Fornacis]	4.9	3 38 37.706	+2.3848	- 4	-32 13 43.51	+11.603	+ 7
135	[δ Eridani]	3.4	3 38 53.278	+2.8720	- 66	-10 4 15.52	+12.324	+747
134	v Persei	3.9	3 39 0.429	+4.0646	- 8	+42 17 30.18	+11.565	- 5
136	[17 Tauri]	4.0	3 39 28.141	+3.5568	+ 17	+23 49 40.05	+11.493	- 43
137	[24 Eridani]	5.4	3 39 53.106	+3.0449	+ 1	- 1 26 58.89	+11.499	- 8
138	5 H. Camelop.	4.5	3 40 44.130	+6.2728	+ 42	+71 3 10.19	+11.406	- 40
139	η Tauri	3.0	3 42 4.351	+3.5606	+ 18	+23 49 27.48	+11.302	- 47
140	τ ^δ Eridani	4.1	3 42 55.929	+2.5798	- 122	-23 31 5.07	+10.766	-520

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
141	β Reticuli	3.8	3 43 3.300	+0.7409	+479	-65° 5' 35.58	+11.341	+ 63
142	[27 Tauri]	3.8	3 43 44.908	+3.5616	+ 14	+23 46 32.58	+11.184	- 45
143	γ Eridani	4.1	3 46 2.915	+2.2445	- 40	-36 28 31.77	+11.008	- 53
144	ζ Persei	2.9	3 48 24.520	+3.7644	+ 11	+31 36 50.35	+10.876	- 11
146	γ Hydri	3.1	3 48 38.313	-0.9691	+122	-74 31 5.25	+10.981	+110
145	9 H. Camelop.	5.5	3 49 22.152	+5.0890	- 13	+60 50 34.93	+10.800	- 16
147	ε Persei	3.0	3 51 44.597	+4.0165	+ 23	+39 44 51.27	+10.612	- 29
148	ξ Persei	4.0	3 53 3.429	+3.8851	+ 10	+35 31 47.89	+10.536	- 8
149	γ Eridani	3.0	3 53 46.976	+2.7978	+ 43	-13 46 1.09	+10.380	-112
150	λ Tauri	(3.5)	3 55 38.200	+3.3202	- 4	+12 14 1.46	+10.340	- 14
151	ν Tauri	3.9	3 58 18.846	+3.1888	+ 5	+ 5 44 14.30	+10.142	- 10
153	[Erid. 174 G.]	5.7	4 1 52.357	+2.4717	+149	-27 54 1.48	+ 9.989	+109
152	c Persei	4.0	4 2 3.034	+4.3440	+ 33	+47 28 12.80	+ 9.835	- 32
154	o ¹ Eridani	4.1	4 7 25.358	+2.9270	+ 8	- 7 4 27.85	+ 9.538	+ 82
155	α Horologii	3.7	4 10 59.081	+1.9852	+ 20	-42 31 6.42	+ 8.962	-218
156	α Reticuli	3.2	4 13 14.977	+0.7639	+ 49	-62 42 5.19	+ 9.050	+ 47
157	[γ Doradus]	4.2	4 13 38.409	+1.5671	+ 88	-51 42 57.41	+ 9.144	+172
160	υ ⁴ Eridani	3.3	4 14 26.969	+2.2680	+ 36	-34 1 12.57	+ 8.897	- 12
158	[54 Persei]	5.3	4 14 29.920	+3.8888	- 19	+34 20 51.59	+ 8.900	- 6
159	[γ Tauri]	3.7	4 14 36.774	+3.4108	+ 82	+15 24 30.28	+ 8.868	- 28
161	[Erid. 212 G.]	5.4	4 16 40.847	+2.6178	+ 35	-20 51 22.06	+ 8.749	+ 16
162	δ Tauri	3.8	4 17 41.101	+3.4565	+ 78	+17 19 46.77	+ 8.626	- 31
163	[η Reticuli]	5.3	4 20 54.148	+0.6404	+125	-63 36 8.27	+ 8.560	+160
164	ε Tauri	3.5	4 23 18.073	+3.4998	+ 81	+18 58 45.16	+ 8.176	- 35
166	[δ Mensae]	5.8	4 24 6.401	-4.1589	+ 92	-80 25 39.63	+ 8.218	+ 73
165	[1 Camel. seq.]	6.3	4 24 49.062	+4.7386	+ 7	+53 42 49.68	+ 8.088	0
167	[β Caeli]	5.2	4 28 2.808	+1.8353	- 6	-45 8 55.86	+ 7.811	- 17
168	α Tauri	1	4 30 41.840	+3.4395	+ 49	+16 19 36.92	+ 7.426	-188
169	ν Eridani	3.8	4 31 46.274	+2.9962	+ 3	- 3 32 16.87	+ 7.525	- 4
170	[υ ³ Eridani]	3.5	4 32 0.711	+2.3308	- 45	-30 44 53.44	+ 7.502	- 6
171	α Doradus	3.2	4 32 1.809	+1.2945	+ 71	-55 13 57.71	+ 7.510	+ 3
172	53 Eridani	3.9	4 34 0.721	+2.7460	- 44	-14 28 53.37	+ 7.182	-165
173	Gr. 848	6.2	4 36 34.221	+8.0104	+108	+75 46 36.86	+ 7.004	-133
174	τ Tauri	4.2	4 36 46.896	+3.5978	+ 6	+22 46 58.66	+ 7.101	- 19
175	4 Camelop.	5.5	4 40 25.088	+4.9844	+ 61	+56 35 47.00	+ 6.676	-146

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
176	[μ Eridani]	3.8	4 40 ^m 57.095	+2.9986	+ 14	- 3 25 15.46	+6.766	- 12
177	[μ Mensae]	5.5	4 43 58.159	-0.6158	+ 18	-71 5 52.56	+6.558	+ 29
178	9 Camelop.	4.3	4 44 59.744	+5.9408	+ 5	+66 11 20.98	+6.453	+ 10
179	[π^4 Orionis]	3.7	4 46 21.498	+3.1940	0	+ 5 27 0.01	+6.324	- 7
180	π^5 Orionis	3.7	4 49 30.611	+3.1234	- 1	+ 2 17 31.82	+6.067	- 3
181	ϵ Aurigae	2.7	4 51 3.936	+3.9032	+ 10	+33 1 21.69	+5.920	- 20
182	10 Camelop.	4.1	4 55 19.101	+5.3238	0	+60 18 36.61	+5.571	- 12
183	ϵ Aurigae	(3.2)	4 55 26.178	+4.2994	+ 6	+43 41 21.74	+5.560	- 14
184	ι Tauri	4.8	4 57 39.313	+3.5840	+ 54	+21 27 38.23	+5.344	- 42
185	η Aurigae	3.3	5 0 7.868	+4.2026	+ 33	+41 6 43.63	+5.106	- 71
186	ϵ Leporis	3.2	5 1 36.517	+2.5390	+ 20	-22 29 34.13	+4.984	- 68
187	[γ^2 Pictoris]	5.1	5 2 36.419	+1.5493	+ 35	-49 42 2.57	+4.974	+ 6
188	β Eridani	2.7	5 3 22.534	+2.9487	- 59	- 5 12 12.86	+4.823	- 80
189	[ζ Doradus]	4.7	5 3 56.887	+1.0227	- 69	-57 35 48.56	+4.956	+103
190	[λ Eridani]	4.2	5 4 47.462	+2.8702	+ 3	- 8 52 12.98	+4.778	- 4
192	μ Aurigae	5.1	5 7 11.961	+4.1017	- 13	+38 22 38.60	+4.499	- 79
191	19 H. Camelop.	5.1	5 7 32.397	+9.8177	-316	+79 7 42.19	+4.710	+160
193	α Aurigae	1	5 9 57.876	+4.4281	+ 86	+45 54 22.43	+3.914	-428
194	β Orionis	1	5 10 9.832	+2.8822	+ 2	- 8 18 22.52	+4.326	0
195	[τ Orionis]	3.7	5 13 11.230	+2.9120	- 12	- 6 56 32.04	+4.059	- 7
196	θ Doradus	4.8	5 13 49.474	-0.0546	+ 12	-67 17 15.68	+4.049	+ 38
197	[σ Columbae]	4.9	5 14 12.104	+2.1623	+ 64	-34 59 1.36	+3.651	-328
198	[Columb. 12 G.]	6.0	5 15 46.053	+2.3917	+ 9	-27 27 43.20	+3.834	- 11
199	[ζ Pictoris]	5.6	5 17 8.109	+1.4688	+ 8	-50 42 12.58	+3.955	+227
200	[η Orion. m.]	3.3	5 19 54.079	+3.0160	+ 5	- 2 28 49.15	+3.490	- 1
201	γ Orionis	1.7	5 20 14.977	+3.2168	- 3	+ 6 16 3.93	+3.440	- 20
202	β Tauri	1.8	5 20 32.314	+3.7916	+ 26	+28 31 52.60	+3.258	-177
203	17 Camelop.	5.9	5 21 34.304	+5.6574	- 3	+62 59 31.85	+3.344	- 1
204	[β Leporis]	2.9	5 24 20.776	+2.5706	+ 5	-20 49 53.71	+3.013	- 93
206	δ Orionis	2.2	5 27 21.411	+3.0641	0	- 0 21 57.49	+2.844	- 2
205	Gr. 966	6.6	5 27 32.976	+8.0040	- 8	+74 59 5.96	+2.848	+ 20
207	α Leporis	2.6	5 28 42.972	+2.6454	+ 3	-17 53 13.10	+2.730	+ 2
208	[φ^1 Orionis]	4.6	5 29 49.450	+3.2924	- 1	+ 9 25 42.55	+2.623	- 10
209	ι Orionis	2.8	5 30 58.880	+2.9343	+ 5	- 5 58 8.93	+2.527	- 4
210	ϵ Orionis	1.6	5 31 35.719	+3.0434	+ 1	- 1 15 34.27	+2.476	- 3

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verän- derung	Jährl. Eigen- bew. in Einh. von 0°.0001
211	ζ Tauri	3.0	5 32 12.332	+3.5846	+ 6	+21° 5' 15.57	+2.400	- 26
212	β Doradus	3.7	5 32 50.045	+0.5173	- 7	-62 32 57.11	+2.369	- 2
213	[σ Orionis]	3.8	5 34 10.636	+3.0110	0	- 2 39 7.47	+2.254	- 1
214	[γ Mensae]	5.3	5 35 28.888	-2.3951	+273	-76 24 22.35	+2.440	+300
215	α Columbae	2.4	5 36 21.175	+2.1716	- 2	-34 7 20.17	+2.028	- 37
216	ο Aurigae	5.7	5 38 50.983	+4.6460	- 6	+49 47 14.18	+1.838	- 4
217	[γ Leporis]	3.8	5 40 40.194	+2.5017	-200	-22 28 39.59	+1.311	-377
218	[130 Tauri]	5.8	5 42 7.827	+3.4980	+ 4	+17 41 44.36	+1.556	- 6
219	ζ Leporis	3.5	5 42 49.903	+2.7178	- 12	-14 51 19.34	+1.498	- 2
220	α Orionis	2.1	5 43 26.417	+2.8450	+ 4	- 9 42 5.22	+1.444	- 3
221	[ν Aurigae]	3.9	5 45 10.928	+4.1568	- 4	+39 7 21.28	+1.306	+ 11
222	[δ Leporis]	3.8	5 47 24.462	+2.5802	+167	-20 53 10.93	+0.450	-652
223	[β Columbae]	2.9	5 47 45.051	+2.1132	+ 32	-35 48 7.54	+1.474	+403
224	α Orionis	1	5 50 14.688	+3.2477	+ 20	+ 7 23 26.60	+0.866	+ 14
225	δ Aurigae	3.8	5 52 2.046	+4.9398	+100	+54 16 42.98	+0.576	-122
226	[γ Leporis]	3.6	5 52 15.597	+2.7322	- 27	-14 11 1.72	+0.816	+139
227	β Aurigae	1.9	5 52 51.220	+4.4012	- 42	+44 56 20.23	+0.616	- 8
228	θ Aurigae	2.7	5 53 30.952	+4.0917	+ 49	+37 12 24.98	+0.480	- 88
229	γ Columbae	3.9	5 56 21.670	+1.8365	+ 22	-42 49 11.91	+0.286	- 33
230	[66 Orionis]	5.9	6 0 9.854	+3.1693	- 6	+ 4 9 51.51	-0.029	- 15
231	[Puppis I G.]	5.8	6 1 51.257	+1.7260	- 84	-45 2 9.22	+0.072	+232
232	ν Orionis	4.4	6 2 22.578	+3.4262	+ 11	+14 46 47.53	-0.239	- 31
233	[36 Camelop.]	5.6	6 3 41.752	+6.0368	- 5	+65 44 15.13	-0.353	- 29
235	[δ Pictoris]	5.0	6 8 31.519	+1.1667	- 22	-54 56 53.28	-0.752	- 7
234	22 H. Camelop.	4.6	6 8 49.248	+6.6185	+ 17	+69 21 11.16	-0.873	-102
236	η Geminor.	3.3	6 9 23.089	+3.6224	- 42	+22 32 1.94	-0.834	- 13
237	[2 Lyncis]	4.4	6 11 35.703	+5.2970	- 7	+59 2 41.37	-0.986	+ 29
239	[α Mensae]	5.1	6 12 56.910	-1.7882	+239	-74 43 19.76	-1.357	-225
238	[α Columbae]	4.4	6 13 18.859	+2.1338	- 7	-35 6 35.49	-1.090	+ 74
240	ζ Canis maj.	2.9	6 16 49.155	+2.3025	+ 1	-30 1 20.92	-1.468	+ 4
241	μ Geminor.	2.9	6 17 27.339	+3.6310	+ 48	+22 33 39.57	-1.636	-111
242	ψ ¹ Aurigae	5.1	6 17 53.455	+4.6242	+ 9	+49 20 6.69	-1.566	- 3
243	β Canis maj.	2.0	6 18 41.521	+2.6417	- 4	-17 54 36.86	-1.631	+ 2
244	8 Monocer.	4.5	6 18 56.771	+3.1800	- 7	+ 4 38 22.66	-1.651	+ 4
245	α Argus	1	6 21 55.843	+1.3313	+ 16	-52 38 44.45	-1.906	+ 9

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
246	10 Monocer.	5.0	6 ^b 23 27.956	+ 2.9628	- 2	- 4 42 19.45	-2.044	+ 5
247	8 Lyncis	6.3	6 29 22.590	+ 5.4921	-283	+61 33 43.43	-2.844	- 278
248	23 H. Camelop.	5.6	6 30 43.093	+10.3075	-267	+79 39 52.87	-3.303	- 623
249	♂ Canis maj.	4.6	6 31 14.531	+ 2.5140	+ 6	-22 53 32.07	-2.711	+ 13
250	51 Aurigae	6.1	6 32 21.256	+ 4.1604	- 18	+39 28 18.36	-2.935	- 115
251	γ Geminor.	2.0	6 32 27.326	+ 3.4674	+ 35	+16 28 39.24	-2.874	- 45
252	v Argus	3.1	6 34 58.590	+ 1.8354	- 4	-43 6 57.16	-3.066	- 19
253	S Monocer.	(4.4)	6 35 58.021	+ 3.3054	+ 6	+ 9 58 49.79	-3.128	- 5
254	ε Geminor.	3.1	6 38 20.064	+ 3.6936	+ 4	+25 13 18.81	-3.352	- 15
255	[ψ ⁵ Aurigae]	5.5	6 40 10.914	+ 4.3292	+ 6	+43 40 7.32	-3.343	+ 154
256	ξ Geminor.	3.4	6 40 10.952	+ 3.3688	- 74	+12 59 39.45	-3.696	- 200
257	α Canis maj. ¹⁾	1	6 41 8.396	+ 2.6445	-366	-16 35 27.00	-4.796	-1215
258	18 Monocer.	4.7	6 43 6.988	+ 3.1298	- 2	+ 2 30 44.11	-3.769	- 20
259	[43 Camelop.]	5.1	6 43 53.868	+ 6.4911	+ 17	+68 59 42.56	-3.814	- 3
261	θ Geminor.	3.4	6 46 47.558	+ 3.9584	+ 7	+34 4 17.86	-4.120	- 55
260	[24 H. Camel.]	4.6	6 46 48.454	+ 8.8057	+217	+77 5 41.24	-4.077	- 13
262	α Pictoris	3.2	6 47 15.492	+ 0.6182	-103	-61 50 36.39	-3.848	+ 256
264	[ζ Mensae]	5.7	6 47 38.074	+ 4.9330	- 41	-80 43 5.76	-4.052	+ 85
263	[τ Argus]	2.9	6 47 40.668	+ 1.4888	+ 29	-50 30 21.64	-4.236	- 96
265	15 Lyncis	4.6	6 49 24.007	+ 5.2066	0	+58 32 34.58	-4.418	- 130
266	θ Canis maj.	4.1	6 49 57.726	+ 2.7876	- 94	-11 55 26.98	-4.350	- 14
267	[ι Volantis]	5.4	6 52 29.635	- 0.6759	- 6	-70 51 0.46	-4.557	+ 12
268	ε Canis maj.	1.5	6 55 2.929	+ 2.3574	0	-28 50 52.08	-4.768	+ 1
269	ζ Geminor.	(3.8)	6 58 42.762	+ 3.5611	0	+20 42 15.98	-5.083	- 3
270	[ο ² Canis maj.]	3.1	6 59 13.472	+ 2.5052	- 1	-23 41 59.60	-5.121	+ 1
271	γ Canis maj.	4.0	6 59 38.506	+ 2.7152	+ 8	-15 29 54.10	-5.170	- 13
272	[Carinae 27 G.]	5.5	7 2 36.491	+ 1.1176	- 24	-56 36 40.67	-5.415	- 7
273	δ Canis maj.	1.9	7 4 41.443	+ 2.4388	- 7	-26 14 53.86	-5.580	+ 3
274	63 Aurigae	5.0	7 5 23.889	+ 4.1330	+ 45	+39 28 11.02	-5.642	0
275	[J Puppis]	4.5	7 9 57.907	+ 1.7095	-148	-46 36 25.21	-5.935	+ 91
276	[64 Aurigae]	6.0	7 11 42.714	+ 4.1792	- 3	+41 2 44.12	-6.168	+ 3
277	λ Geminor.	3.6	7 12 51.852	+ 3.4504	- 31	+16 42 18.41	-6.310	- 41
278	π Argus	2.5	7 13 55.692	+ 2.1183	- 14	-36 56 1.31	-6.352	+ 3
279	δ Geminor.	3.3	7 14 41.376	+ 3.5869	- 10	+22 9 2.03	-6.429	- 11
280	19 Lync. seq.	5.5	7 15 26.783	+ 4.9092	- 1	+55 27 13.25	-6.515	- 34

¹⁾ Ort des Schwerpunkts. Die Reduktion auf den Hauptstern ist nach Auwers (Astron. Nachr. 3929):

$$\begin{array}{l} 1909.0 \quad \Delta\alpha = -0''.198 \quad \Delta\delta = +0''.07 \\ 1910.0 \quad \quad \quad -0''.206 \quad \quad \quad -0''.08 \end{array}$$

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
281	β Volantis	4.0	7 16 ^m 52.784	-0.0178	+ 4	-67 47 26.43	- 6.612	- 13
282	ι Geminor.	3.8	7 20 4.596	+3.7313	- 83	+27 58 46.55	- 6.950	- 86
283	[7 Can. maj.]	2.4	7 20 29.726	+2.3729	- 4	-29 7 30.26	- 6.883	+ 14
284	Gr. 1308	5.8	7 21 24.178	+6.2778	- 7	+68 39 9.29	- 7.016	- 44
285	β Canis min.	2.9	7 22 12.998	+3.2558	- 31	+ 8 28 23.73	- 7.080	- 41
286	ρ Geminor.	4.4	7 23 15.608	+3.8642	+122	+31 57 58.27	- 6.940	+ 183
287	α Gemin. 1)	1.8, 2.8	7 28 47.602	+3.8355	-129	+32 5 20.43	- 7.657	- 82
288	[Pupp. 108 G.]	4.7	7 30 9.444	+2.5675	- 38	-22 5 57.27	- 7.666	+ 18
289	25 Monocer.	5.3	7 32 45.249	+2.9838	- 47	- 3 54 26.21	- 7.872	+ 20
290	[7 Puppis]	4.7	7 34 0.043	+2.2192	- 27	-34 45 48.32	- 7.977	+ 16
291	α Can. min. 2)	0.5	7 34 32.347	+3.1430	-466	+ 5 27 31.69	- 9.070	-1031
292	24 Lyncis	5.0	7 35 18.790	+5.0963	- 47	+58 55 26.76	- 8.153	- 53
293	[26 Monocer.]	4.0	7 36 53.963	+2.8664	- 57	- 9 20 18.13	- 8.247	- 22
294	α Geminor.	3.4	7 38 57.344	+3.6271	- 12	+24 37 0.63	- 8.445	- 54
295	β Geminor.	1.1	7 39 44.959	+3.6766	-468	+28 14 47.76	- 8.510	- 56
296	π Geminor.	5.5	7 41 38.503	+3.8758	0	+33 38 22.83	- 8.633	- 31
297	ζ Volantis	3.9	7 42 56.598	-0.7187	+ 9	-72 23 15.41	- 8.698	+ 7
298	[Pupp. 205 G.]	5.7	7 47 33.492	+2.7789	- 40	-13 39 22.02	- 9.408	- 342
299	[26 Lyncis]	5.7	7 48 5.395	+4.3814	- 40	+47 48 4.35	- 9.114	- 7
301	[2 Puppis]	3.7	7 49 5.301	+2.0619	- 18	-40 20 26.49	- 9.184	+ 1
300	Gr. 1374	5.5	7 49 19.222	+7.2546	- 30	+74 9 43.76	- 9.236	- 32
302	[53 Camelop.]	6.3	7 53 56.576	+5.1520	- 30	+60 34 26.44	- 9.582	- 22
303	χ Argus	3.5	7 54 27.938	+1.5271	- 32	-52 44 16.27	- 9.577	+ 24
304	[27 Monocer.]	5.2	7 55 11.447	+2.9995	- 27	- 3 25 51.38	- 9.647	+ 9
305	χ Geminor.	5.1	7 57 55.892	+3.6911	- 14	+28 3 0.27	- 9.912	- 46
306	ζ Argus	2.2	8 0 23.103	+2.1076	- 34	-39 44 47.10	-10.041	+ 11
307	27 Lyncis	4.6	8 1 37.039	+4.5294	- 59	+51 46 10.89	-10.150	- 5
308	ι Navis	2.8	8 3 40.095	+2.5546	- 64	-24 2 29.62	-10.254	+ 46
309	γ Argus	2.1	8 6 43.654	+1.8489	- 12	-47 4 5.07	-10.534	- 5
310	Br. II47	5.8	8 8 7.979	+7.6343	+ 58	+76 2 9.12	-10.616	+ 17
311	20 Navis	5.3	8 9 9.025	+2.7581	- 8	-15 30 49.01	-10.713	- 6
312	β Cancri	3.5	8 11 34.886	+3.2567	- 30	+ 9 27 59.41	-10.940	- 52
313	[7 Puppis]	4.4	8 15 8.870	+2.2440	-103	-36 22 36.88	-11.059	+ 89
314	31 Lyncis	4.4	8 16 36.589	+4.1206	- 8	+43 28 50.25	-11.362	-108
315	ε Argus	1.7	8 20 38.868	+1.2352	- 33	-59 12 58.82	-11.529	+ 16

1) AR. der Mitte, Dekl. des folgenden, helleren Sterns.

2) Ort des Schwerpunkts. Die Reduktion auf den Ort des sichtbaren Sterns beträgt nach Auwers (Astron. Nachr. 3929):

$$\begin{aligned}
 1909.0 \quad \Delta\alpha &= -0''.022 & \Delta\delta &= -0''.84 \\
 1910.0 & & & -0''.79
 \end{aligned}$$

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
316	Br. 1197	3.6	8 ^h 21 ^m 6.851	+2.9996	- 41	- 3 36' 32.70	-11.599	- 21
317	o Ursae maj.	3.3	8 22 42.747	+5.0154	-174	+61 1 23.25	-11.804	-111
318	θ Chamael.	4.2	8 23 23.041	-1.7377	-455	-77 11 28.09	-11.710	+ 29
319	[β Volantis]	3.7	8 24 44.987	+0.6636	- 52	-65 49 58.99	-12.012	-177
320	Gr. 1450	6.3	8 27 0.255	+3.9108	- 83	+38 19 44.66	-12.166	-170
321	η Caneri	5.6	8 27 26.912	+3.4752	- 25	+20 45 2.97	-12.076	- 50
322	[Gr. 1446]	6.4	8 29 36.655	+6.7590	- 35	+73 56 55.99	-12.284	-104
323	[Gr. 1460]	6.3	8 32 33.401	+4.4652	- 38	+53 1 51.90	-12.415	- 29
324	[ε Velorum]	4.2	8 34 26.599	+2.1077	- 22	-42 40 13.53	-12.516	- 7
325	[6 Hydrae]	5.4	8 35 42.781	+2.8422	- 64	-12 9 11.74	-12.600	- 4
326	δ Caneri	3.9	8 39 30.937	+3.4146	- 8	+18 29 21.29	-13.090	-236
327	α Pyxidid	3.7	8 39 56.108	+2.4098	- 14	-32 51 28.62	-12.870	+ 11
328	ι Caneri	4.1	8 41 11.601	+3.6385	- 12	+29 5 35.83	-13.012	- 47
329	[ε Hydrae]	3.3	8 41 57.495	+3.1803	-126	+ 6 45 11.33	-13.068	- 51
330	δ Argus	2.0	8 42 11.456	+1.6577	+ 23	-54 22 29.67	-13.124	- 93
331	[η Chamael.]	5.9	8 44 26.086	-1.9514	-139	-78 37 59.57	-13.146	+ 34
332	[γ Pyxidid]	4.2	8 46 40.177	+2.5457	- 99	-27 22 18.92	-13.233	+ 93
333	[σ ² Cancri med.]	5.6	8 48 41.726	+3.6690	+ 32	+30 55 28.27	-13.484	- 19
334	ζ Hydrae	3.1	8 50 35.078	+3.1744	- 64	+ 6 17 32.39	-13.570	+ 11
335	ι Ursae maj.	2.9	8 52 58.961	+4.1252	-437	+48 23 58.06	-13.986	-248
336	c Carinae	4.0	8 52 59.169	+1.3635	- 26	-60 17 47.70	-13.684	+ 51
337	α Caneri	4.1	8 53 30.716	+3.2854	+ 26	+12 12 37.62	-13.804	- 35
338	[ρ Ursae maj.]	4.9	8 54 21.195	+5.4630	- 34	+67 59 5.83	-13.808	+ 22
339	10 Ursae maj.	3.9	8 54 44.243	+3.9088	-383	+42 8 36.82	-14.113	-265
340	[Gr. 1501]	5.9	8 57 20.763	+4.4188	- 8	+54 38 35.23	-14.008	+ 10
341	κ Ursae maj.	3.3	8 57 25.081	+4.1132	- 27	+47 31 1.01	-14.080	- 65
343	α Volantis	4.1	9 1 0.743	+0.9554	- 6	-66 1 57.84	-14.350	-113
342	[c Velorum]	3.9	9 1 0.862	+2.0660	- 70	-46 44 6.70	-14.265	- 28
344	σ ³ Ursae maj.	4.9	9 2 23.974	+5.3289	- 16	+67 30 16.88	-14.390	- 60
345	λ Argus	2.1	9 4 38.844	+2.2040	- 34	-43 3 53.38	-14.449	+ 10
346	[36 Lynceis]	5.3	9 7 51.408	+3.9390	- 18	+43 35 36.12	-14.695	- 35
347	θ Hydrae	3.9	9 9 37.854	+3.1241	+ 90	+ 2 41 54.93	-15.072	-313
348	β Argus	1.7	9 12 12.314	+0.6728	-302	-69 20 32.10	-14.813	+ 96
349	[38 Lynceis]	3.9	9 13 11.137	+3.7453	- 18	+37 11 17.33	-15.096	-130
350	83 Caneri	6.7	9 13 54.274	+3.3540	- 80	+18 5 29.65	-15.144	-128

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
351	[ε Argus]	2.2	9 14 39.221	+1.6062	- 34	-58° 53 35.41	-15.051	+ 1
352	40 Lyncis	3.2	9 15 30.890	+3.6650	- 178	+34 46 40.04	-15.092	+ 12
353	α Argus	2.5	9 19 17.674	+1.8562	- 22	-54 37 18.27	-15.314	+ 2
354	α Hydrae	2.0	9 23 6.966	+2.9490	- 7	- 8 15 49.60	-15.498	+ 32
355	λ Ursae maj.	3.5	9 24 21.969	+4.7700	+ 169	+63 27 37.16	-15.570	+ 28
356	[ε Antliae]	4.7	9 25 29.303	+2.4737	- 25	-35 33 10.95	-15.675	- 14
357	d Ursae maj.	4.5	9 26 27.197	+5.3692	- 121	+70 13 51.48	-15.639	+ 83
358	θ Ursae maj.	3.1	9 26 46.649	+4.0332	-1028	+52 5 33.05	-16.284	-547
359	ψ Argus	3.6	9 27 6.882	+2.3599	- 171	-40 4 4.63	-15.675	+ 74
361	[N Velorum]	3.0	9 28 27.412	+1.8227	- 37	-56 37 57.30	-15.820	+ 1
360	10 Leon. min.	4.6	9 28 39.160	+3.6871	+ 13	+36 48 7.34	-15.858	- 18
362	[H Carinae]	5.8	9 30 55.735	+0.4724	- 55	-72 40 37.95	-15.970	- 17
363	[Gr. 1564]	5.9	9 34 28.426	+5.1968	- 131	+69 39 8.05	-16.213	- 65
364	[α Hydrae]	5.1	9 35 56.625	+2.8760	- 17	-13 55 8.50	-16.226	- 11
365	[o Leonis]	3.8	9 36 17.726	+3.2057	- 94	+10 18 24.00	-16.272	- 38
366	θ Antliae	5.0	9 40 8.673	+2.6723	- 41	-27 21 9.11	-16.393	+ 35
367	ε Leonis	3.0	9 40 41.310	+3.4124	- 31	+24 11 37.06	-16.474	- 18
368	υ Ursae maj.	3.8	9 44 31.678	+4.2970	- 379	+59 28 2.01	-16.802	-154
369	υ Argus	3.0	9 44 49.661	+1.5015	- 21	-64 38 58.70	-16.661	- 1
370	6 Sextantis	6.2	9 46 38.928	+3.0242	+ 8	- 3 48 59.66	-16.778	- 30
371	[μ Leonis]	4.0	9 47 35.451	+3.4191	- 162	+26 26 9.33	-16.850	- 57
372	Gr. 1586	6.3	9 50 16.120	+5.4454	- 180	+73 18 45.83	-16.965	- 46
373	[Hydrae 183 G.]	5.5	9 50 34.686	+2.8296	- 25	-18 34 41.12	-17.001	- 66
374	[19 Leon. min.]	5.2	9 52 6.938	+3.6882	- 100	+41 29 21.60	-17.034	- 27
375	[φ Argus]	3.7	9 53 39.983	+2.1022	- 27	-54 8 3.73	-17.079	- 2
377	[η Antliae]	5.3	9 54 57.925	+2.5705	- 82	-35 27 18.47	-17.161	- 24
376	[12 Sextantis]	6.7	9 54 59.919	+3.1141	- 47	+ 3 49 12.57	-17.111	+ 27
378	π Leonis	4.9	9 55 24.355	+3.1734	- 21	+ 8 28 52.13	-17.182	- 25
379	η Leonis	3.4	10 2 22.394	+3.2754	- 2	+17 12 24.18	-17.469	- 6
380	α Leonis	1.3	10 3 31.633	+3.1989	- 167	+12 24 44.03	-17.514	- 1
381	λ Hydrae	3.7	10 6 9.111	+2.9249	- 134	-11 54 14.39	-17.712	- 87
382	γ Velorum	3.9	10 10 54.807	+2.5121	- 154	-41 40 14.83	-17.774	+ 44
385	[ω Argus]	3.4	10 11 34.633	+1.4336	- 29	-69 35 9.06	-17.845	0
383	λ Ursae maj.	3.4	10 11 36.806	+3.6328	- 147	+43 22 8.69	-17.896	- 49
384	ζ Leonis	3.4	10 11 37.895	+3.3433	+ 16	+23 52 16.02	-17.855	- 7

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
386	μ Ursae maj.	3.0	10 16 ^m 54.742	+3.5879	- 70	+41° 57' 26.78	-18.028	+ 24
387	30 H. Urs. maj.	5.0	10 17 34.875	+4.3687	- 25	+66 1 37.06	-18.096	- 19
388	[25 Sextantis]	6.2	10 18 50.523	+3.0324	- 40	- 3 36 50.15	-18.128	- 2
389	μ Hydrae	3.9	10 21 41.344	+2.9007	- 85	-16 22 17.49	-18.312	- 82
391	J Carinae	4.1	10 22 35.425	+1.1975	- 64	-73 34 5.67	-18.278	- 16
390	31 Leon. min.	4.2	10 22 37.516	+3.4807	- 96	+37 10 25.71	-18.371	-106
392	Lac. α Antliae	4.2	10 22 59.185	+2.7416	- 62	-30 36 15.20	-18.268	+ 10
393	ϵ Carinae	4.1	10 24 32.156	+2.1948	- 31	-58 16 28.38	-18.346	- 14
394	36 Ursae maj.	4.8	10 24 48.627	+3.8636	-216	+56 26 50.99	-18.376	- 33
395	9 H. Dracon.	4.9	10 27 23.138	+5.1992	- 96	+76 10 55.76	-18.436	- 5
396	[ρ Leonis]	3.8	10 28 1.247	+3.1618	- 5	+ 9 46 30.44	-18.458	- 5
397	[ρ Carinae]	3.5	10 28 47.225	+2.1279	- 17	-61 13 1.17	-18.474	+ 5
398	[37 Ursae maj.]	5.2	10 29 18.473	+3.8910	+ 83	+57 33 5.81	-18.461	+ 36
399	[44 Hydrae]	5.6	10 29 41.145	+2.8515	- 2	-23 16 33.69	-18.489	+ 21
400	[ρ Velorum]	4.0	10 33 28.413	+2.5118	-182	-47 45 10.12	-18.669	- 34
401	[γ Chamael.]	4.2	10 34 24.044	+0.7399	-116	-78 8 8.34	-18.634	+ 30
402	[ϵ Velorum]	4.4	10 35 40.795	+2.3753	- 75	-55 7 45.24	-18.726	- 21
403	[35 H. Urs. maj.]	5.1	10 36 33.930	+4.3468	- 19	+69 33 8.74	-18.750	- 18
404	33 Sextantis	6.6	10 36 46.455	+3.0526	- 94	- 1 15. 46.90	-18.865	-125
405	[41 Leon. min.]	5.2	10 38 28.241	+3.2684	- 81	+23 39 54.28	-18.780	+ 12
406	δ Argus	2.8	10 39 42.492	+2.1329	- 26	-63 55 2.89	-18.824	+ 5
407	42 Leon. min.	5.3	10 40 48.487	+3.3446	- 15	+31 9 42.66	-18.900	- 37
408	μ Argus	2.7	10 42 51.126	+2.5708	+ 50	-48 56 21.28	-18.986	- 65
409	ι Leonis	5.4	10 44 28.515	+3.1565	- 3	+11 1 36.84	-18.998	- 30
411	[δ^2 Chamael.]	4.7	10 44 56.480	+0.6074	-119	-80 3 36.42	-18.972	+ 9
410	[ν Hydrae]	3.2	10 45 8.054	+2.9584	+ 66	-15 43 2.24	-18.792	+195
412	[46 Leon. min.]	3.9	10 48 13.568	+3.3652	+ 76	+34 42 20.41	-19.354	-282
414	[ι Antliae]	4.9	10 52 28.498	+2.7902	+ 64	-36 38 54.30	-19.319	-136
413	[Br. 1508]	6.4	10 52 42.072	+4.9076	-260	+78 15 28.61	-19.214	- 17
415	ι Velorum	4.5	10 55 58.612	+2.7457	+ 19	-41 44 15.60	-19.273	- 4
416	β Ursae maj.	2.3	10 56 21.433	+3.6440	+101	+56 52 13.41	-19.249	+ 26
417	α Ursae maj.	1.8	10 58 7.227	+3.7321	-175	+62 14 32.76	-19.392	- 72
418	χ Leonis	4.8	11 0 19.437	+3.0968	-231	+ 7 49 41.30	-19.416	- 46
419	[γ Hydrae]	4.8	11 0 56.725	+2.8852	-153	-26 48 8.31	-19.391	- 7
420	ψ Ursae maj.	3.0	11 4 33.124	+3.3871	- 57	+44 59 32.58	-19.498	- 36

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
421	β Crateris	4.3	11 7 10.854	+2.9470	0	-22 19 43.84	-19.614	- 98
422	δ Leonis	2.4	11 9 16.238	+3.1959	+107	+21 1 20.68	-19.694	-136
423	θ Leonis	3.3	11 9 27.975	+3.1517	- 51	+15 55 37.54	-19.643	- 72
424	[Gr. 1757]	6.1	11 11 34.437	+3.3964	- 97	+49 58 22.77	-19.622	- 23
425	ν Ursae maj.	3.4	11 13 34.002	+3.2495	- 5	+33 35 27.38	-19.615	+ 42
426	δ Crateris	3.6	11 14 47.400	+2.9970	- 88	-14 17 9.54	-19.458	+200
427	σ Leonis	4.1	11 16 26.689	+3.0952	- 66	+ 6 31 41.41	-19.698	- 5
428	π Centauri	4.1	11 16 51.196	+2.7243	- 41	-53 59 32.00	-19.704	- 13
429	Gr. 1771	6.2	11 17 27.397	+3.5962	- 10	+64 49 43.13	-19.668	+ 34
430	[ι Leonis]	4.0	11 19 10.876	+3.1292	+107	+11 1 50.01	-19.812	- 84
431	[γ Crateris]	4.0	11 20 20.065	+2.9942	- 71	-17 11 2.61	-19.742	+ 7
432	[58 Ursae maj.]	6.1	11 25 35.913	+3.2590	- 43	+43 40 22.19	-19.748	+ 72
433	λ Draconis	3.6	11 26 0.789	+3.6020	- 80	+69 50 0.24	-19.848	- 21
434	ε Hydrae	3.6	11 28 31.415	+2.9443	-167	-31 21 14.53	-19.901	- 43
435	[C Centauri]	5.5	11 31 30.677	+2.8951	+ 12	-47 8 12.91	-19.939	- 47
436	λ Centauri	3.3	11 31 34.731	+2.7489	- 58	-62 30 59.25	-19.909	- 17
437	υ Leonis	4.4	11 32 17.365	+3.0716	+ 1	- 0 19 16.69	-19.864	+ 36
438	[π Chamael.]	6.1	11 33 30.201	+2.4531	-276	-75 23 33.64	-19.917	- 4
439	[ο Hydrae]	4.8	11 35 41.457	+2.9731	- 30	-34 14 24.94	-19.933	+ 1
440	3 Draconis	5.4	11 37 24.345	+3.3782	- 78	+67 14 55.16	-19.910	+ 39
441	γ Ursae maj.	3.8	11 41 14.965	+3.1816	-134	+48 17 2.28	-19.966	+ 19
442	[λ Muscae]	3.7	11 41 18.382	+2.8101	-152	-66 13 27.24	-19.960	+ 20
443	[Centauri 65 G.]	4.2	11 42 6.424	+2.8844	- 25	-60 40 20.87	-20.020	- 35
444	β Leonis	2.1	11 44 25.141	+3.0626	-341	+15 4 50.84	-20.118	-118
445	β Virginis	3.5	11 45 57.308	+3.1252	+495	+ 2 16 39.15	-20.285	-276
446	[B Centauri]	4.8	11 46 35.433	+2.9842	-110	-44 40 2.02	-20.058	- 46
447	γ Ursae maj.	2.3	11 49 2.944	+3.1719	+108	+54 12 2.52	-20.020	+ 2
448	[z Chamael.]	5.0	11 55 5.627	+2.9253	-159	-77 42 54.24	-20.050	- 8
449	[Centauri 88 G.]	5.5	11 58 56.506	+3.0936	+268	-41 55 28.28	-20.168	-122
450	ο Virginis	4.1	12 0 34.446	+3.0570	-148	+ 9 14 18.00	-20.010	+ 38
451	[Gr. 1852]	6.0	12 0 38.278	+3.0998	+441	+77 24 52.64	-20.142	- 77
452	δ Centauri	2.7	12 3 38.256	+3.0937	- 43	-50 12 56.07	-20.061	- 18
453	ε Corvi	3.0	12 5 26.546	+3.0803	- 51	-22 6 49.20	-20.031	+ 11
454	4 H. Draconis	5.0	12 7 56.809	+2.8546	+ 23	+78 7 18.80	-20.011	+ 23
455	[3 Crucis]	3.0	12 10 18.435	+3.1646	- 49	-58 14 34.07	-20.052	- 26

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001
456	δ Ursae maj.	3.4	12 10 ^h 55.640	+2.9861	+137	+57° 32' 17.38	-20.021	+ 2
457	[γ Corvi]	2.4	12 11 7.464	+3.0812	-112	-17 2 12.13	-20.006	+ 17
458	[2 Can. ven.]	5.9	12 11 34.145	+3.0162	+ 26	+41 9 59.91	-20.066	- 45
459	β Chamael.	4.4	12 12 59.392	+3.4409	-141	-78 48 25.10	-20.001	+ 12
460	η Virginis	3.7	12 15 14.988	+3.0685	- 42	- 0 9 40.15	-20.026	- 23
461	[6 Can. ven.]	5.3	12 21 22.103	+2.9632	- 67	+39 31 24.34	-19.995	- 36
462	α Crucis md.	1.0	12 21 32.059	+3.3101	- 43	-62 35 42.63	-19.989	- 32
463	[Hydr. 323 G.]	5.7	12 22 3.742	+3.1524	- 14	-32 19 32.67	-20.002	- 49
464	[ε Centauri]	4.1	12 23 6.833	+3.2278	- 35	-49 43 36.17	-19.976	- 31
466	20 Comae	6.0	12 25 9.033	+3.0177	+ 26	+21 23 59.72	-19.964	- 39
465	δ Corvi	2.8	12 25 9.242	+3.1001	-144	-16 0 31.99	-20.069	-142
467	[74 Ursae maj.]	5.6	12 25 42.539	+2.8146	- 97	+58 54 22.65	-19.842	+ 88
468	[γ Crucis]	1.6	12 26 6.705	+3.3056	+ 26	-56 36 13.53	-20.194	-277
469	[γ Muscae]	3.9	12 27 1.290	+3.5377	- 81	-71 37 49.56	-19.928	- 21
470	8 Can. ven.	4.3	12 29 25.431	+2.8564	-625	+41 51 6.58	-19.600	+285
472	α Draconis	3.6	12 29 36.249	+2.5802	-118	+70 17 23.08	-19.872	+ 7
471	β Corvi	2.6	12 29 36.253	+3.1447	- 4	-22 53 37.01	-19.939	- 59
473	24 Comae seq.	5.1	12 30 33.973	+3.0119	+ 2	+18 52 40.54	-19.850	+ 18
474	α Muscae	2.8	12 31 44.885	+3.5388	- 55	-68 38 3.41	-19.886	- 31
475	[χ Virginis]	4.9	12 34 32.907	+3.0939	- 49	- 7 29 41.68	-19.857	- 37
476	γ Centauri	2.3	12 36 29.543	+3.2911	-206	-48 27 36.42	-19.812	- 19
477	[γ Virgin. m.]	3.5, 3.5	12 37 2.908	+3.0385	-375	- 0 57 1.69	-19.780	+ 6
478	76 Ursae maj.	6.2	12 37 35.622	+2.6358	- 45	+63 12 45.25	-19.794	- 17
479	[Hydr. 330 G.]	5.9	12 39 9.333	+3.1899	- 25	-27 49 28.94	-19.804	- 50
480	[β Muscae]	3.2	12 40 41.417	+3.6401	- 52	-67 36 36.26	-19.762	- 31
481	β Crucis	1.4	12 42 23.802	+3.4788	- 60	-59 11 29.01	-19.731	- 27
482	n Centauri	4.4	12 48 27.511	+3.3095	+ 46	-39 41 3.06	-19.638	- 37
483	ε Ursae maj.	1.7	12 50 1.743	+2.6498	+136	+56 27 13.02	-19.582	- 11
484	δ Virginis	3.4	12 51 1.145	+3.0208	-315	+ 3 53 30.36	-19.614	- 62
485	12 Can. ven. sq.	2.8	12 51 46.378	+2.8118	-199	+38 48 34.76	-19.486	+ 50
486	8 Draconis	5.2	12 51 51.363	+2.3996	- 16	+65 55 55.27	-19.568	- 34
487	[δ Muscae]	3.6	12 55 59.787	+4.0670	+526	-71 3 29.59	-19.488	- 36
488	ε Virginis	2.8	12 57 38.822	+2.9866	-185	+11 26 53.09	-19.398	+ 18
489	[ζ Centauri]	4.3	13 1 35.529	+3.4833	- 35	-49 25 8.68	-19.355	- 28
490	θ Virginis	4.3	13 5 14.219	+3.1032	- 24	- 5 3 12.23	-19.280	- 40

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0'.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0'.001
491	[17 Can. ven.]	6.1	13 ^h 5 ^m 52.604	+2.7598	- 59	+38° 58' 56.29	-19.192	+ 32
492	43 Comae	4.2	13 7 37.676	+2.8026	-603	+28 20 21.24	-18.300	+880
493	[7 Muscae]	5.0	13 9 4.306	+4.0228	- 32	-67 24 45.21	-19.171	- 28
494	[20 Can. ven.]	4.6	13 13 27.838	+2.6950	-108	+41 3 5.10	-19.016	+ 9
495	7 Hydrae	3.1	13 13 58.315	+3.2548	+ 51	-22 41 30.14	-19.064	- 54
496	ι Centauri	2.9	13 15 28.613	+3.3598	-294	-36 13 57.11	-19.061	- 92
497	ζ Urs. maj. pr.	2.2	13 20 15.821	+2.4223	+144	+55 24 1.43	-18.856	- 26
498	α Virginis	1.1	13 20 23.826	+3.1564	- 28	-10 41 11.70	-18.860	- 33
499	Gr. 2001	6.2	13 23 48.758	+1.5260	+ 35	+72 51 49.96	-18.736	- 15
500	69 H. Urs. maj.	5.5	13 25 6.805	+2.2073	-110	+60 24 56.20	-18.642	+ 37
501	ζ Virginis	3.3	13 30 3.315	+3.0547	-190	- 0 7 51.37	-18.483	+ 35
502	17 H. Can. ven.	4.9	13 30 44.081	+2.6812	+ 64	+37 38 54.09	-18.510	- 4
503	[Chamael. 49 G.]	6.4	13 31 23.470	+5.0342	- 48	-75 13 11.76	-18.487	- 13
504	ι Centauri	2.4	13 34 6.892	+3.7768	- 38	-53 0 14.51	-18.413	- 34
505	[Gr. 2029]	5.9	13 34 59.750	+1.4359	- 86	+71 42 18.70	-18.348	0
506	[ι Centauri]	4.3	13 40 30.753	+3.3982	-370	-32 35 1.72	-18.304	-155
507	τ Bootis	4.5	13 42 56.273	+2.8510	-341	+17 54 35.98	-18.028	+ 29
509	η Ursae maj.	1.8	13 43 57.388	+2.3684	-119	+49 46 1.85	-18.039	- 20
508	[ι Centauri]	3.3	13 44 7.769	+3.5981	- 28	-42 1 13.93	-18.030	- 18
510	89 Virginis	5.2	13 44 55.485	+3.2538	- 69	-17 40 52.08	-18.021	- 38
511	[ι Draconis]	4.8	13 48 46.468	+1.7524	0	+65 10 21.55	-17.832	- 2
512	ζ Centauri	2.6	13 49 51.397	+3.7228	- 70	-46 50 26.58	-17.848	- 61
513	η Bootis	2.8	13 50 21.106	+2.8569	- 42	+18 51 12.86	-18.131	-364
514	[Cent. 294 G.]	4.9	13 51 3.228	+4.3025	- 46	-63 14 27.07	-17.772	- 33
515	[47 Hydrae]	5.5	13 53 24.602	+3.3586	- 34	-24 31 42.18	-17.682	- 41
516	τ Virginis	4.2	13 57 0.859	+3.0510	+ 13	+ 1 59 4.33	-17.520	- 30
517	ι ι Bootis	6.3	13 57 2.943	+2.7220	- 57	+27 49 32.88	-17.480	+ 8
518	β Centauri	1	13 57 23.586	+4.2012	- 28	-59 56 3.85	-17.512	- 39
519	[π Hydrae]	3.4	14 1 11.150	+3.4079	+ 30	-26 14 39.66	-17.461	-152
520	θ Centauri	2.1	14 1 19.347	+3.5177	-438	-35 55 21.50	-17.833	-530
521	α Draconis	3.4	14 1 55.487	+1.6228	- 83	+64 48 38.20	-17.260	+ 16
522	d Bootis	4.9	14 6 14.956	+2.7373	- 12	+25 31 20.71	-17.150	- 69
523	z Virginis	4.2	14 8 2.369	+3.1960	+ 5	- 9 51 1.81	-16.865	+134
524	4 Ursae min.	5.0	14 9 11.270	-0.2910	-113	+77 58 30.48	-16.912	+ 32
525	ι Virginis	4.0	14 11 14.440	+3.1416	- 14	- 5 34 0.06	-17.280	-431

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
526	α Bootis	1	14 11 30.608	+2.7348	- 782	+19 39 21.10	-18.832	-1997
527	λ Bootis	4.0	14 12 55.508	+2.2828	- 177	+46 30 21.07	-16.615	+ 152
528	[ι Bootis]	4.6	14 12 56.632	+2.1263	- 159	+51 47 12.16	-16.680	+ 86
529	[ν Centauri]	4.4	14 13 57.617	+4.1597	- 46	-55 58 3.98	-16.757	- 39
530	[Circini 10 G.]	5.9	14 17 32.693	+4.9162	- 42	-67 46 55.21	-16.578	- 35
531	θ Bootis	3.9	14 22 5.951	+2.0427	- 257	+52 16 15.90	-16.717	- 404
532	[ζ Hydrae]	5.1	14 22 50.393	+3.5036	- 28	-29 4 59.12	-16.308	- 30
533	[η Virginis]	5.0	14 23 30.741	+3.0884	- 90	- 1 49 13.53	-16.248	- 7
534	ρ Bootis	3.7	14 27 54.503	+2.5862	- 75	+30 46 13.79	-15.902	+ 113
535	γ Bootis	2.9	14 28 24.849	+2.4172	- 93	+38 42 21.45	-15.842	+ 145
536	[Gr. 2125]	6.4	14 29 14.557	+1.6250	- 58	+60 37 35.02	-15.925	+ 19
537	η Centauri	2.5	14 29 43.427	+3.7941	- 36	-41 45 30.72	-15.954	- 36
538	α Centauri ¹⁾	1	14 33 24.629	+4.0500	-4861	-60 27 36.94	-15.001	+ 720
539	[α Circini]	3.3	14 35 8.410	+4.8019	- 319	-64 34 45.58	-15.864	- 238
540	[β Bootis]	5.5	14 35 27.043	+2.2330	- 68	+44 47 49.21	-15.635	- 26
541	[α Lupi]	2.4	14 35 52.312	+3.9717	- 19	-46 59 53.12	-15.621	- 36
542	α Apodis	3.8	14 36 30.770	+7.2719	- 57	-78 39 33.55	-15.585	- 34
543	ζ Bootis m.	3.6	14 36 48.167	+2.8638	+ 37	+14 7 5.58	-15.562	- 27
544	[ϵ Centauri]	4.1	14 38 5.230	+3.6570	- 61	-34 46 56.32	-15.661	- 197
545	μ Virginis	3.9	14 38 15.763	+3.1576	+ 68	- 5 15 46.95	-15.781	- 327
546	[δ Lupi]	5.9	14 40 38.995	+4.1732	- 24	-51 59 55.85	-15.411	- 92
547	109 Virginis	3.7	14 41 38.827	+3.0306	- 75	+ 2 16 33.14	-15.301	- 39
548	α Librae	2.7	14 45 50.502	+3.3129	- 77	-15 39 50.74	-15.096	- 73
549	Gr. 2164	5.8	14 49 7.719	+1.5191	- 170	+59 39 48.60	-14.700	+ 130
550	β Ursae min.	2.0	14 50 57.628	-0.2120	- 79	+74 31 38.71	-14.716	+ 7
551	P. XIV, 221	6.0	14 51 55.482	+2.8304	- 10	+14 48 48.85	-14.684	- 18
552	β Lupi	2.7	14 52 33.950	+3.9126	- 52	-42 46 4.48	-14.686	- 59
553	[α Centauri]	3.2	14 53 11.187	+3.8883	- 20	-41 44 22.22	-14.620	- 33
554	[2H. Urs. min.]	4.8	14 56 7.935	+0.9420	- 148	+66 17 41.31	-14.377	+ 34
555	β Bootis	3.3	14 58 31.086	+2.2598	- 36	+40 44 56.63	-14.308	- 43
556	γ Scorpii	3.4	14 58 44.443	+3.5035	- 57	-24 55 29.54	-14.308	- 55
557	ψ Bootis	4.5	15 0 32.770	+2.5704	- 131	+27 18 7.32	-14.155	- 15
558	ζ Lupi	3.4	15 5 44.428	+4.2877	- 134	-51 45 12.28	-13.888	- 72
559	[ι Librae]	4.6	15 7 1.883	+3.4130	- 32	-19 26 52.34	-13.782	- 47
561	[β Circini]	4.2	15 10 22.891	+4.6675	- 129	-58 27 42.89	-13.667	- 149

1) Schwerpunkt des Systems. Abstände vom Schwerpunkt (Astr. Nachr. 4020):

heller Stern	1909.0: $\Delta\alpha$	+0°.707	$\Delta\delta$	+7".82
	1910.0:	+0°.704		+7".63
Begleiter	1909.0: $\Delta\alpha$	-0°.832	$\Delta\delta$	-9".20
	1910.0:	-0°.828		-8".98

Nr.	Name	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
560	γ Triang. austr.	2.9	15 10 24.061	+5.5478	-102	-68° 20' 38.64	-13.553	- 36
562	[3 Serpentis]	5.5	15 10 39.890	+2.9800	- 12	+ 5 16 36.03	-13.506	- 7
563	δ Bootis	3.2	15 11 50.040	+2.4190	+ 73	+33 39 13.93	-13.547	- 122
564	β Librae	2.5	15 12 6.496	+3.2242	- 64	- 9 2 51.58	-13.434	- 27
565	ι H. Urs. min.	5.3	15 13 35.397	+0.6748	+385	+67 41 31.67	-13.708	- 396
566	φ ¹ Lupi	3.5	15 16 1.657	+3.7952	- 83	-35 55 54.43	-13.245	- 94
569	γ Ursae min.	3.0	15 20 51.911	-0.1214	- 32	+72 9 28.09	-12.810	+ 16
568	μ Bootis	4.1	15 21 3.143	+2.2660	-123	+37 41 45.25	-12.732	+ 81
570	[τ ¹ Serpentis]	5.5	15 21 34.121	+2.7810	- 11	+15 44 50.97	-12.804	- 24
567	[κ ¹ Apodis]	5.9	15 21 34.621	+6.4565	+ 6	-73 4 28.86	-12.816	- 37
571	ι Draconis	3.2	15 22 54.228	+1.3307	- 5	+59 17 4.55	-12.675	+ 14
572	β Coron. bor.	3.7	15 24 4.617	+2.4734	-131	+29 25 8.17	-12.534	+ 77
573	ν ¹ Bootis	4.8	15 27 39.621	+2.1545	+ 11	+41 8 34.30	-12.379	- 13
574	[ε Triang. austr.]	4.3	15 28 22.814	+5.4450	+ 29	-66 0 42.21	-12.396	- 81
575	γ Lupi	2.9	15 29 4.299	+3.9841	- 28	-40 51 41.14	-12.308	- 40
576	[θ Coron. bor.]	4.1	15 29 15.585	+2.4183	- 17	+31 39 56.74	-12.281	- 26
577	γ Librae	4.1	15 30 26.020	+3.3512	+ 43	-14 29 11.53	-12.171	+ 3
578	α Coron. bor.	2.2	15 30 50.078	+2.5396	+ 92	+27 1 13.66	-12.245	- 99
579	[3 H. Scorpii]	3.9	15 31 29.791	+3.6340	- 11	-27 50 3.28	-12.109	- 10
580	[φ Bootis]	5.3	15 34 33.508	+2.1543	+ 58	+40 38 57.45	-11.833	+ 52
581	[γ Coron. bor.]	3.8	15 38 55.267	+2.5192	- 74	+26 35 0.24	-11.542	+ 34
582	α Serpentis	2.5	15 39 47.082	+2.9530	+ 92	+ 6 42 41.00	-11.473	+ 42
583	β Serpentis	3.4	15 41 59.235	+2.7679	+ 50	+15 42 21.83	-11.410	- 55
584	κ Serpentis	4.0	15 44 38.586	+2.6996	- 32	+18 25 19.39	-11.262	- 98
585	μ Serpentis	3.3	15 44 52.179	+3.1278	- 58	- 3 9 8.30	-11.178	- 31
586	[γ Lupi]	4.1	15 45 10.345	+3.8027	- 15	-33 21 1.66	-11.155	- 30
587	[12 H. Dracon.]	5.3	15 45 16.587	+0.9066	+ 55	+62 52 50.17	-11.178	- 62
588	ε Serpentis	3.5	15 46 16.725	+2.9882	+ 84	+ 4 45 3.87	-10.986	+ 59
589	β Triang. austr.	2.9	15 47 6.961	+5.2533	-277	-63 9 1.81	-11.388	- 406
590	ζ Ursae min.	4.3	15 47 17.247	-2.2176	+ 60	+78 4 29.34	-10.972	- 1
591	[γ Serpentis]	3.7	15 52 14.929	+2.7688	+209	+15 57 28.91	-11.902	-1296
592	[π Scorpii]	4.1	15 53 20.620	+3.6222	- 14	-25 51 10.11	-10.560	- 37
593	ε Coron. bor.	4.0	15 53 49.164	+2.4825	- 62	+27 8 27.19	-10.554	- 68
594	δ Scorpii	2.3	15 54 57.010	+3.5417	- 8	-22 21 48.15	-10.440	- 36
595	[Gr. 2296]	5.1	15 55 37.776	+1.4190	-187	+55 0 23.71	-10.240	+ 111

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
596	[δ Normae]	4.8	16 ^h 0 ^m 3.308	+4.2266	- 4	-44 55 37.39	-10.012	+ 6
597	β Scorpii	2.6	16 0 8.596	+3.4831	- 8	-19 33 25.26	-10.041	- 27
598	θ Draconis	3.8	16 0 10.958	+1.1200	-401	+58 48 29.10	- 9.666	+341
599	[θ Lupi]	4.4	16 0 36.749	+3.9281	- 38	-36 33 18.55	-10.017	- 40
601	[φ Herculis]	4.0	16 5 54.120	+1.8890	- 23	+45 10 23.05	- 9.541	+ 31
600	[x Normae]	5.3	16 6 17.660	+4.7097	- 37	-54 23 45.37	- 9.607	- 65
602	[δ Triang. austr.]	4.0	16 7 8.841	+5.4304	+ 8	-63 27 14.06	- 9.502	- 25
603	δ Ophiuchi	2.8	16 9 34.525	+3.1410	- 31	- 3 27 38.29	- 9.439	-149
604	γ ² Normae	4.2	16 13 1.523	+4.4723	-191	-49 55 58.55	- 9.082	- 61
606	19 Ursae min.	5.8	16 13 24.335	-1.7569	- 4	+76 6 25.22	- 8.979	+ 12
605	ε Ophiuchi	3.2	16 13 30.295	+3.1712	+ 53	- 4 28 16.73	- 8.952	+ 31
607	[σ Scorpii]	3.1	16 15 39.280	+3.6407	- 11	-25 22 30.37	- 8.848	- 33
608	τ Herculis	3.6	16 17 0.289	+1.8019	- 9	+46 31 46.90	- 8.676	+ 32
609	γ Herculis	3.5	16 17 54.303	+2.6451	- 36	+19 21 58.70	- 8.597	+ 40
610	[ζ Triang. austr.]	5.2	16 18 40.006	+6.4062	+367	-69 52 48.69	- 8.495	+ 83
611	γ Apodis	3.9	16 19 27.890	+9.0855	-385	-78 41 38.62	- 8.585	- 70
612	[η Ursae min.]	5.1	16 20 9.114	-1.7950	-214	+75 57 55.39	- 8.203	+257
613	[ω Herculis]	4.7	16 21 12.927	+2.7670	+ 28	+14 14 31.73	- 8.444	- 69
614	[Gr. 2343]	5.8	16 22 25.861	+1.3094	+ 20	+55 24 42.30	- 8.260	+ 18
615	η Draconis	2.7	16 22 45.364	+0.8060	- 28	+61 43 12.14	- 8.190	+ 62
616	α Scorpii	1.2	16 23 49.524	+3.6732	- 7	-26 13 50.60	- 8.196	- 28
618	β Herculis	2.6	16 26 18.440	+2.5777	- 70	+21 41 14.48	- 7.988	- 20
617	[λ Ophiuchi]	3.7	16 26 19.358	+3.0235	- 23	+ 2 10 56.74	- 8.056	- 90
619	A Draconis	5.0	16 28 9.354	-0.1323	- 51	+68 57 54.19	- 7.784	+ 35
620	[τ Scorpii]	2.9	16 30 12.897	+3.7290	- 10	-28 1 40.40	- 7.687	- 33
621	σ Herculis	4.1	16 31 10.141	+1.9333	- 6	+42 37 27.51	- 7.538	+ 39
622	ζ Ophiuchi	2.6	16 32 8.795	+3.3006	+ 9	-10 23 0.25	- 7.476	+ 22
623	[Gr. 2373]	6.5	16 34 32.569	-2.6328	-312	+77 37 41.14	- 7.026	+276
624	[24 Scorpii]	5.2	16 36 18.488	+3.4659	- 18	-17 33 59.93	- 7.161	- 1
625	α Triang. austr.	1.9	16 39 1.174	+6.3187	+ 32	-68 51 41.87	- 6.985	- 48
626	η Herculis	3.3	16 39 46.554	+2.0558	+ 35	+39 5 41.72	- 6.960	- 84
627	Gr. 2377	4.9	16 43 34.179	+1.1350	+ 29	+56 56 39.04	- 6.504	+ 58
628	ε Scorpii	2.3	16 44 15.979	+3.8791	-502	-34 7 43.09	- 6.756	-252
629	49 Herculis	6.5	16 47 56.236	+2.7301	+ 12	+15 7 34.78	- 6.207	- 7
630	ζ ² Scorpii	3.8	16 48 10.562	+4.2121	-134	-42 12 21.98	- 6.417	-237

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
631	ζ Arae	3.0	16 ^h 51 ^m 5.123	+4.9511	- 30	-55° 50' 49.84	-5.985	- 47
632	[ε ¹ Arae]	4.0	16 52 19.568	+4.7685	- 19	-53 1 16.95	-5.855	- 7
633	z Ophiuchi	3.2	16 53 21.612	+2.8380	-199	+ 9 30 57.29	-5.758	- 12
634	ε Herculis	3.6	16 56 48.451	+2.2946	- 35	+31 3 35.70	-5.433	+ 24
635	[60 Herculis]	4.9	17 1 9.463	+2.7807	+ 34	+12 51 54.68	-5.106	- 15
636	[Gr. 2415]	6.4	17 4 48.602	+1.9558	- 29	+40 38 4.49	-4.809	- 29
637	η Ophiuchi	2.4	17 5 9.476	+3.4378	+ 24	-15 36 46.39	-4.661	+ 90
638	[η Scorpii]	3.4	17 5 37.988	+4.2905	+ 16	-43 7 11.71	-5.015	-298
639	ζ Draconis	3.0	17 8 31.265	+0.1673	- 28	+65 49 35.96	-4.444	+ 22
640	α Herculis	(3.0)	17 10 29.850	+2.7343	- 8	+14 29 36.48	-4.267	+ 29
641	δ Herculis	3.0	17 11 17.602	+2.4634	- 15	+24 56 45.60	-4.386	-158
643	π Herculis	3.1	17 11 52.629	+2.0886	- 21	+36 54 40.52	-4.176	+ 2
642	[ι Apodis]	5.7	17 11 56.472	+6.6680	- 13	-70 1 42.55	-4.199	- 26
644	θ Ophiuchi	3.2	17 16 25.161	+3.6814	- 7	-24 54 33.66	-3.814	- 25
645	β Arae	2.7	17 17 43.950	+4.9786	- 15	-55 26 40.81	-3.718	- 42
646	[d Ophiuchi]	4.5	17 21 32.505	+3.8272	+ 6	-29 47 7.09	-3.493	-145
647	[27 H. Ophiuchi]	4.5	17 21 48.140	+3.1822	- 58	- 5 0 24.45	-3.377	- 51
648	δ Arae	3.6	17 22 52.890	+5.4070	- 72	-60 36 31.21	-3.334	-101
650	[x Herculis]	6.0	17 24 19.492	+1.5890	+ 2	+48 20 9.39	-3.130	- 19
649	[v Scorpii]	2.8	17 24 34.429	+4.0733	- 23	-37 13 26.01	-3.125	- 39
651	α Arae	2.8	17 24 48.299	+4.6317	- 39	-49 48 17.24	-3.161	- 94
652	λ Scorpii	1.7	17 27 25.637	+4.0694	- 14	-37 2 17.08	-2.872	- 32
653	β Draconis	2.7	17 28 22.563	+1.3542	- 15	+52 22 6.34	-2.746	+ 10
655	[ν ¹ Draconis]	4.7	17 30 23.027	+1.1802	+177	+55 14 46.06	-2.534	+ 50
657	[ν ² Draconis]	4.8	17 30 28.427	+1.1814	+182	+55 14 4.67	-2.526	+ 51
656	α Ophiuchi	2.1	17 30 42.580	+2.7834	+ 79	+12 37 32.37	-2.788	-234
654	θ Scorpii	1.9	17 30 46.672	+4.3061	0	-42 56 26.40	-2.567	- 18
659	[f Draconis]	5.2	17 32 19.579	-0.2460	- 31	+68 11 34.95	-2.280	+134
658	ξ Serpentis	3.5	17 32 22.499	+3.4330	- 34	-15 20 30.90	-2.474	- 64
660	[z Scorpii]	2.5	17 36 11.448	+4.1468	- 13	-38 59 1.03	-2.106	- 27
661	η Pavonis	3.5	17 36 47.904	+5.8804	- 23	-64 40 51.76	-2.081	- 55
663	ι Herculis	3.6	17 36 53.734	+1.6925	- 5	+46 3 15.42	-2.022	- 4
662	[μ Arae]	5.6	17 36 55.047	+4.7584	- 29	-51 47 10.73	-2.223	-207
664	∞ Draconis	4.9	17 37 28.957	-0.3540	+ 14	+68 48 0.31	-1.644	+323
665	β Ophiuchi	2.8	17 38 58.599	+2.9627	- 27	+ 4 36 16.77	-1.684	+153

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001
666	[ι Scorpii]	3.0	17 ^h 41 ^m 13.099	+4.1927	- 10	-40° 5' 32.45	-1.643	- 2
667	μ Herculis	3.3	17 42 53.766	+2.3461	- 244	+27 46 24.25	-2.242	-749
668	[γ Ophiuchi]	3.7	17 43 19.762	+3.0072	- 16	+ 2 44 27.18	-1.534	- 77
670	ψ Drac. austr.	4.7	17 43 33.248	-1.0755	+ 27	+72 11 37.37	-1.705	-267
669	[ζ Scorpii]	3.1	17 43 39.779	+4.0817	+ 42	-37 0 53.79	-1.402	+ 26
671	ξ Draconis	3.6	17 51 57.308	+1.0369	+ 120	+56 53 12.04	-0.629	+ 76
672	θ Herculis	3.8	17 53 7.914	+2.0566	+ 4	+37 15 43.58	-0.596	+ 5
675	35 Draconis	5.1	17 53 31.307	-2.6885	+ 119	+76 58 31.36	-0.326	+241
673	ν Ophiuchi	3.4	17 54 0.978	+3.3016	- 7	- 9 45 46.88	-0.641	-118
674	[ξ Herculis]	3.7	17 54 13.705	+2.3308	+ 66	+29 15 25.55	-0.531	- 26
676	γ Draconis	2.3	17 54 29.566	+1.3922	- 9	+51 29 57.28	-0.504	- 22
677	67 Ophiuchi	4.0	17 56 5.229	+3.0040	0	+ 2 56 7.22	-0.354	- 13
678	[Apodis 66 G.]	6.0	17 58 31.683	+8.3846	- 62	-75 53 40.93	-0.398	-269
679	γ Sagittarii	3.0	17 59 57.690	+3.8525	- 48	-30 25 33.13	-0.196	-193
680	72 Ophiuchi	3.6	18 3 2.109	+2.8437	- 41	+ 9 33 1.12	+0.345	+ 79
681	\circ Herculis	3.8	18 3 59.550	+2.3397	+ 2	+28 44 57.88	+0.349	0
682	μ Sagittarii	3.9	18 8 19.259	+3.5872	- 2	-21 5 0.01	+0.724	- 3
683	[η Sagittarii]	3.1	18 11 28.140	+4.0589	- 117	-36 47 22.69	+0.840	-163
684	[Gr. 2533]	5.6	18 12 48.922	+1.8651	- 6	+42 7 40.18	+1.112	- 7
685	[36 Draconis]	5.0	18 13 22.370	+0.3455	+ 533	+64 21 58.68	+1.192	+ 29
686	[ξ Pavonis]	4.2	18 14 50.400	+5.5298	- 25	-61 32 9.07	+1.314	+ 17
687	[θ Sagittarii]	2.7	18 15 10.092	+3.8410	+ 28	-29 52 2.65	+1.296	- 29
688	η Serpentis	3.2	18 16 36.049	+3.1030	- 374	- 2 55 23.04	+0.756	-696
689	ϵ Sagittarii	1.9	18 18 7.905	+3.9826	- 31	-34 25 41.62	+1.458	-126
690	109 Herculis	3.9	18 19 49.194	+2.5558	+ 139	+21 43 39.81	+1.472	-258
691	α Telescopii	3.7	18 20 13.559	+4.4497	- 22	-46 1 9.00	+1.719	- 48
693	[φ Draconis]	4.3	18 22 3.807	-0.8567	- 17	+71 17 22.28	+1.960	+ 33
692	[λ Sagittarii]	2.8	18 22 21.271	+3.7024	- 37	-25 28 21.47	+1.765	-188
694	δ Draconis	5.1	18 22 34.912	+0.8767	- 45	+58 44 51.89	+2.030	+ 59
695	χ Draconis	3.6	18 22 41.889	-1.0800	+1164	+72 41 36.71	+1.610	-366
696	[2 H. Scuti]	4.8	18 24 0.650	+3.4191	- 2	-14 37 27.82	+2.099	+ 2
697	[θ Coron. austr.]	4.7	18 27 0.268	+4.2849	+ 15	-42 22 43.38	+2.333	- 24
698	ζ Pavonis	4.0	18 32 24.399	+7.0256	- 28	-71 30 26.08	+2.646	-178
699	α Lyrae	1	18 33 51.435	+2.0314	+ 176	+38 41 54.53	+3.229	+281
700	[Gr. 2655]	6.1	18 34 9.015	-2.8783	- 10	+77 28 35.65	+2.974	- 3

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verän- derung	Jährl. Eigen- bew. in Einh. von 0°.001
701	[Gr. 2640]	6.2	18 ^h 35 ^m 56.162	+0.1904	+ 19	+65° 24' 25.79	+3.214	+ 84
702	[5 H. Scuti]	5.1	18 38 33.906	+3.2675	+ 13	- 8 21 56.51	+3.366	+ 9
703	110 Hercules	4.1	18 41 44.709	+2.5808	- 13	+20 27 31.18	+3.290	-340
704	λ Pavonis	4.3	18 43 47.247	+5.5684	- 26	-62 17 33.58	+3.780	- 27
705	β Lyrae	(3.3)	18 46 43.205	+2.2146	+ 3	+33 15 23.68	+4.056	- 2
706	σ Sagittarii	2.1	18 49 37.386	+3.7212	+ 4	-26 24 37.56	+4.244	- 63
707	• Draconis	4.6	18 49 51.564	+0.8875	+105	+59 16 36.75	+4.349	+ 24
708	λ Telescopii	5.1	18 51 11.063	+4.8060	+ 3	-53 3 29.88	+4.454	+ 14
709	θ Serpent. pr.	4.5	18 51 41.743	+2.9824	+ 29	+ 4 5 4.32	+4.510	+ 28
710	[ε Sagittarii]	3.6	18 52 18.097	+3.5798	+ 18	-21 13 36.89	+4.519	- 16
711	R Lyrae	(4.5)	18 52 33.978	+1.8262	+ 31	+43 49 32.74	+4.633	+ 76
712	[ε Aquilae]	4.0	18 55 29.520	+2.7220	- 42	+14 56 38.83	+4.727	- 80
714	[ν Draconis]	5.0	18 55 30.953	-0.7228	+104	+71 10 32.47	+4.848	+ 40
713	γ Lyrae	3.2	18 55 32.356	+2.2437	- 4	+32 33 51.25	+4.808	- 2
715	[ζ Sagittarii]	2.7	18 56 49.347	+3.8188	- 20	-30 0 38.80	+4.922	+ 2
716	ζ Aquilae	3.0	19 1 13.643	+2.7569	- 7	+13 43 39.30	+5.192	-101
717	λ Aquilae	3.2	19 1 25.194	+3.1840	- 16	- 5 1 10.57	+5.222	- 86
718	α Coron. austr.	4.1	19 3 16.921	+4.0847	+ 59	-38 2 48.80	+5.355	-110
719	[ι Lyrae]	5.2	19 4 3.261	+2.1404	+ 2	+35 57 25.23	+5.526	- 3
720	π Sagittarii	2.9	19 4 21.159	+3.5693	- 5	-21 10 8.13	+5.520	- 35
721	[Pavonis 60 G.]	5.7	19 8 3.362	+6.0561	- 6	-66 49 8.02	+5.845	- 21
722	[δ Sagittarii]	5.2	19 12 18.690	+3.5117	- 11	-19 6 55.53	+6.212	- 9
723	δ Draconis	3.0	19 12 32.209	+0.0232	+172	+67 30 5.16	+6.326	+ 88
724	θ Lyrae	4.3	19 13 12.550	+2.0816	- 7	+37 58 16.26	+6.295	- 1
725	ω Aquilae	5.4	19 13 32.705	+2.8158	- 3	+11 25 50.63	+6.336	+ 13
726	z Cygni	3.8	19 15 0.019	+1.3881	+ 69	+53 12 0.75	+6.563	+119
727	[ν Sagittarii]	4.5	19 16 30.991	+3.4376	+ 1	-16 7 34.93	+6.566	- 3
729	τ Draconis	4.5	19 17 18.521	-1.1329	-323	+73 11 12.49	+6.746	+110
728	α Sagittarii	4.0	19 17 34.963	+4.1619	+ 17	-40 47 15.85	+6.539	-118
730	δ Aquilae	3.3	19 20 54.620	+3.0250	+168	+ 2 55 57.84	+7.010	+ 80
731	[Sagittar. 186 G.]	5.8	19 21 11.495	+3.7946	+ 7	-29 55 25.59	+6.907	- 48
732	β Cygni	3.0	19 27 3.070	+2.4188	- 2	+27 46 4.93	+7.426	- 8
734	[Gr. 2900]	6.4	19 27 13.046	-3.5616	+ 95	+79 25 15.79	+7.410	- 35
733	ι Cygni	3.9	19 27 24.724	+1.5135	+ 24	+51 32 7.84	+7.585	+121
735	[ι Telescopii]	5.1	19 28 28.012	+4.4578	- 41	-48 17 45.39	+7.507	- 40

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
736	λ Sagittarii	4.6	19 ^h 31 ^m 10.246	+3.6539	+ 26	-25° 5' 6.20	+ 7.744	- 22
737	[x Aquilae]	5.0	19 31 59.800	+3.2289	+ 4	- 7 13 49.27	+ 7.833	0
738	θ Cygni	4.5	19 34 0.072	+1.6089	- 28	+50 0 35.77	+ 8.241	+ 247
739	[v Telescopii]	5.5	19 40 35.544	+4.9145	+ 88	-56 34 54.81	+ 8.383	- 138
740	[15 Cygni]	5.2	19 40 59.672	+2.1632	+ 59	+37 8 2.72	+ 8.585	+ 36
741	γ Aquilae	2.7	19 41 56.006	+2.8522	+ 9	+10 23 27.48	+ 8.624	0
742	δ Cygni	2.8	19 42 7.861	+1.8756	+ 51	+44 54 29.56	+ 8.680	+ 39
743	δ Sagittae	3.8	19 43 19.805	+2.6750	+ 4	+18 18 33.25	+ 8.748	+ 13
744	[51 Aquilae]	5.8	19 45 46.445	+3.3030	- 20	-10 59 41.64	+ 8.969	+ 42
745	α Aquilae	1	19 46 20.604	+2.9274	+ 361	+ 8 37 38.76	+ 9.350	+ 381
746	[η Aquilae]	(4.0)	19 47 50.269	+3.0571	+ 6	+ 0 46 17.40	+ 9.079	- 9
747	ε Draconis	3.8	19 48 29.168	-0.1864	+ 156	+70 2 10.10	+ 9.166	+ 30
748	ε Pavonis	3.8	19 50 4.863	+7.0006	+ 143	-73 9 5.48	+ 9.130	- 132
749	β Aquilae	3.7	19 50 50.598	+2.9467	+ 24	+ 6 10 44.14	+ 8.842	- 485
750	ψ Cygni	5.0	19 53 16.646	+1.5516	- 43	+52 11 49.26	+ 9.480	- 31
751	θ ¹ Sagittarii	4.3	19 53 48.894	+3.9101	- 12	-35 31 22.59	+ 9.516	- 35
752	γ Sagittae	3.6	19 54 42.599	+2.6674	+ 43	+19 14 40.04	+ 9.644	+ 24
753	[c Sagittarii]	4.6	19 57 3.856	+3.6934	+ 21	-27 57 48.25	+ 9.817	+ 17
754	δ Pavonis	3.5	19 59 48.422	+5.9204	+1955	-66 24 53.39	+ 8.841	-1168
755	[E Telescopii]	5.2	20 0 24.996	+4.6103	- 43	-53 8 30.95	+10.053	- 1
756	θ Aquilae	3.1	20 6 36.607	+3.0964	+ 22	- 1 5 30.99	+10.526	+ 5
757	o ¹ Cygni sq.	4.3	20 10 45.967	+1.8891	+ 4	+46 27 53.69	+10.828	+ 1
758	[33 Cygni]	4.3	20 11 16.986	+1.3967	+ 74	+56 17 20.62	+10.949	+ 85
759	z Cephei	4.3	20 11 58.165	-1.9564	+ 13	+77 26 15.79	+10.942	+ 27
760	24 Vulpecul.	5.7	20 12 53.449	+2.5668	+ 12	+24 23 25.00	+10.964	- 19
761	α ² Capricorni	3.6	20 13 0.408	+3.3310	+ 41	-12 49 38.65	+11.003	+ 11
762	[β Capricorni]	3.1	20 15 53.980	+3.3732	+ 23	-15 4 9.41	+11.208	+ 6
763	[x ¹ Sagittarii]	5.8	20 16 16.996	+4.0848	+ 38	-42 20 12.99	+11.134	- 96
764	α Pavonis	1.9	20 18 27.269	+4.7690	+ 10	-57 1 37.85	+11.302	- 85
765	γ Cygni	2.3	20 18 57.721	+2.1526	+ 4	+39 57 53.94	+11.424	0
766	[ρ Capricorni]	5.0	20 23 40.290	+3.4252	- 14	-18 6 53.99	+11.744	- 16
767	θ Cephei	4.1	20 28 3.391	+1.0123	+ 61	+62 41 16.86	+12.054	- 14
768	ε Delphini	3.9	20 28 51.933	+2.8663	+ 5	+10 59 36.44	+12.100	- 25
769	α Jndi	3.0	20 31 10.184	+4.2328	+ 33	-47 36 33.63	+12.343	+ 59
770	73 Draconis	5.3	20 32 43.141	-0.7510	+ 15	+74 38 34.32	+12.380	- 11

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0°.001
771	β Delphini	3.5	20 33 16.906	+2.8130	+ 74	+14 16 41.05	+12.394	- 36
772	[α Delphini]	5.1	20 34 42.579	+2.9141	+ 212	+ 9 45 54.63	+12.544	+ 17
773	υ Capricorni	5.5	20 34 52.271	+3.4188	- 17	-18 27 34.47	+12.522	- 16
774	α Delphini	3.7	20 35 24.684	+2.7866	+ 45	+15 35 25.84	+12.569	- 6
775	β Pavonis	3.3	20 36 46.144	+5.4510	- 72	-66 31 50.98	+12.670	+ 2
776	[η Jndi]	4.8	20 37 21.672	+4.4229	+ 158	-52 14 47.82	+12.634	- 73
777	α Cygni	1.3	20 38 19.758	+2.0446	+ 4	+44 57 17.10	+12.772	- 1
778	[δ Delphini]	4.2	20 39 12.632	+2.8008	- 14	+14 44 51.40	+12.786	- 47
779	[ψ Capricorni]	4.2	20 40 42.584	+3.5573	- 44	-25 35 54.49	+12.777	- 156
780	ε Cygni	2.4	20 42 31.731	+2.4270	+ 290	+33 37 44.25	+13.379	+ 327
781	ε Aquarii	3.6	20 42 45.057	+3.2498	+ 18	- 9 49 45.68	+13.040	- 28
782	[6 H. Cephei]	4.5	20 43 5.622	+1.4900	- 87	+57 15 10.35	+12.858	- 234
783	η Cephei	3.5	20 43 26.446	+1.2266	+ 134	-61 29 6.25	+13.932	+ 818
784	λ Cygni	4.6	20 43 51.803	+2.3356	+ 5	+36 9 21.29	+13.142	0
785	β Jndi	3.6	20 47 42.220	+4.7142	0	-58 47 52.64	+13.366	- 28
786	32 Vulpeculae	5.3	20 50 40.875	+2.5560	- 4	+27 42 39.93	+13.589	+ 2
787	[α Octantis]	5.5	20 53 43.247	+7.4018	- 23	-77 22 17.32	+13.426	- 355
788	ν Cygni	3.9	20 53 46.803	+2.2354	+ 9	+40 48 58.89	+13.768	- 18
789	[II Aquarii]	6.4	20 55 46.373	+3.1604	+ 24	- 5 4 56.14	+13.779	- 133
790	ζ Microscopii	5.4	20 57 9.230	+3.8433	- 36	-38 59 14.30	+13.877	- 121
792	[ε Cygni]	3.9	21 1 37.227	+2.1812	+ 12	+43 33 51.74	+14.272	- 3
791	[A Capricorni]	4.6	21 1 48.419	+3.5141	- 29	-25 22 12.37	+14.241	- 46
793	61 Cygni pr.	5.4	21 2 49.031	+2.6860	+3502	+38 18 5.01	+17.576	+3252
794	ν Aquarii	4.4	21 4 38.321	+3.2711	+ 62	-11 44 26.11	+14.449	- 10
795	Br. 2777	6.0	21 7 20.144	-1.1336	+ 74	+77 45 27.00	+14.656	+ 36
797	ζ Cygni	3.1	21 9 3.758	+2.5518	- 1	+29 51 11.68	+14.666	- 58
796	[Jndi 23 G.]	5.9	21 9 16.090	+4.3013	- 18	-53 38 25.24	+14.690	- 46
798	[Gr. 3415]	5.8	21 9 29.265	+1.5286	- 6	+59 36 43.45	+14.748	- 2
799	[τ Cygni]	3.8	21 11 9.472	+2.3935	+ 137	+37 39 23.68	+15.282	+ 435
800	α Equulei	3.9	21 11 16.521	+2.9998	+ 38	+ 4 52 16.14	+14.768	- 88
801	[4 Pisc. austr.]	4.8	21 12 25.355	+3.6456	+ 35	-32 33 11.64	+14.896	- 27
802	[81 Microscop.]	4.9	21 14 56.649	+3.8511	+ 72	-41 11 40.26	+15.081	+ 13
803	α Cephei	2.5	21 16 24.494	+1.4342	+ 211	+62 11 59.16	+15.200	+ 49
804	ι Pegasi	4.2	21 17 52.661	+2.7738	+ 74	+19 24 52.96	+15.297	+ 53
805	γ Pavonis	4.2	21 18 55.792	+5.0062	+ 135	-65 46 42.62	+16.084	+ 788

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Ein- von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Ein- von 0°.0001
806	ζ Capricorni	3.8	21 ^h 21 ^m 28.433	+3.4309	— 1	-22° 48' 21.40	+15.462	+ 23
807	[g Cygni]	5.4	21 26 5.428	+2.2122	+ 49	+46 8 20.23	+15.796	+ 103
808	β Aquarii	2.9	21 26 46.159	+3.1603	+ 11	- 5 58 18.85	+15.726	- 5
809	β Cephei	3.1	21 27 29.411	+0.7874	+ 20	+70 9 40.01	+15.776	+ 7
810	ν Octantis	3.7	21 31 23.234	+6.8169	+ 128	-77 47 40.87	+15.720	- 257
811	74 Cygni	5.1	21 33 18.024	+2.4023	- 3	+40 0 15.73	+16.090	+ 12
812	[γ Capricorni]	3.6	21 35 3.060	+3.3282	+ 131	-17 4 25.35	+16.152	- 17
813	[13 H. Cephei]	6.1	21 36 8.212	+1.8610	+ 7	+57 4 38.11	+16.226	+ 2
814	[ι Pisc.austr.]	4.4	21 39 31.734	+3.5821	+ 19	-33 26 28.81	+16.307	- 90
815	ε Pegasi	2.3	21 39 42.991	+2.9464	+ 19	+ 9 27 26.55	+16.406	- 1
816	[x Pegasi]	4.1	21 40 31.412	+2.7150	+ 25	+25 13 34.97	+16.456	+ 10
817	[II Cephei]	4.8	21 40 35.522	+0.8914	+ 233	+70 53 32.20	+16.547	+ 97
818	[λ Capricorni]	5.5	21 41 38.289	+3.2328	+ 20	-11 47 9.45	+16.500	- 4
819	δ Capricorni	2.8	21 42 1.183	+3.3150	+ 178	-16 32 26.24	+16.226	- 294
820	[o Jndi]	5.6	21 43 6.079	+5.1348	- 87	-70 3 12.05	+16.554	- 20
821	π ² Cygni	4.3	21 43 25.815	+2.2140	+ 8	+48 53 17.26	+16.587	- 4
822	γ Gruis	3.0	21 48 25.288	+3.6430	+ 77	-37 47 35.64	+16.813	- 19
823	16 Pegasi	5.2	21 48 55.246	+2.7280	+ 5	+25 29 47.88	+16.857	+ 2
824	[δ Jndi]	4.6	21 51 43.824	+4.1067	+ 47	-55 25 32.62	+16.958	- 30
825	[ε Jndi]	4.9	21 56 24.362	+4.6172	+4814	-57 9 37.04	+14.611	-2590
826	[20 Pegasi]	5.8	21 56 39.330	+2.9218	+ 36	+12 41 1.08	+17.159	- 54
827	α Aquarii	2.9	22 1 6.633	+3.0823	+ 10	- 0 45 44.18	+17.402	- 7
828	ι Aquarii	4.2	22 1 31.439	+3.2434	+ 24	-14 18 41.27	+17.377	- 51
830	20 Cephei	5.7	22 2 14.510	+1.8214	+ 22	+62 20 29.19	+17.517	+ 60
829	α Gruis	1.8	22 2 30.139	+3.7973	+ 119	-47 24 7.69	+17.297	- 171
831	[ι Pegasi]	3.9	22 2 46.421	+2.7907	+ 218	+24 54 1.03	+17.502	+ 21
832	[μ Pisc.austr.]	4.6	22 3 4.563	+3.5075	+ 42	-33 25 58.42	+17.452	- 42
833	[27 Pegasi]	5.8	22 5 11.640	+2.6558	- 42	+32 43 38.89	+17.519	- 65
834	θ Pegasi	3.6	22 5 36.576	+3.0264	+ 184	+ 5 44 59.32	+17.632	+ 30
835	π Pegasi	4.3	22 5 56.672	+2.6615	- 9	+32 43 52.93	+17.595	- 19
836	ζ Cephei	3.4	22 7 41.721	+2.0770	+ 14	+57 45 8.69	+17.693	+ 6
837	24 Cephei	4.8	22 8 3.624	+1.1600	+ 54	+71 53 34.08	+17.710	+ 8
838	[λ Pisc.austr.]	5.4	22 9 9.442	+3.4075	+ 16	-28 13 5.83	+17.745	- 2
839	[ε Octantis]	5.3	22 9 51.981	+6.9400	+ 138	-80 53 35.36	+17.735	- 41
840	θ Aquarii	4.2	22 12 1.972	+3.1680	+ 77	- 8 14 12.15	+17.844	- 19

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
841	α Tucanae	2.8	22 12 16.513	+4.1420	— 98	—60° 42' 48.70	+17.823	— 49
842	γ Aquarii	3.7	22 16 57.394	+3.0996	+ 83	— 1 50 46.42	+18.060	+ 7
843	[31 Pegasi]	4.9	22 17 2.292	+2.9517	— 1	+11 44 47.01	+18.066	+ 9
844	3 Lacertae	4.5	22 19 58.758	+2.3537	— 15	+51 46 22.20	+17.977	—191
845	[ν Gruis]	5.6	22 23 19.266	+3.5175	+ 29	—39 35 32.96	+18.127	—161
846	[β ¹ Gruis]	4.0	22 23 49.043	+3.5992	+ 17	—43 57 38.80	+18.299	— 9
847	[β Cephei]	(4.1)	22 25 47.390	+2.2212	+ 17	+57 56 56.98	+18.378	+ 2
848	7 Lacertae	3.8	22 27 32.411	+2.4660	+147	+49 48 51.77	+18.453	+ 17
849	[ν Aquarii]	5.5	22 29 43.090	+3.2867	+156	—21 10 28.65	+18.368	—144
850	η Aquarii	3.9	22 30 40.842	+3.0836	+ 59	— 0 35 12.58	+18.486	— 56
851	[31 Cephei]	5.2	22 33 31.236	+1.4824	+381	+73 10 14.25	+18.658	+ 23
852	10 Lacertae	4.9	22 35 10.564	+2.6873	+ 4	+38 34 35.00	+18.683	— 6
853	[30 Cephei]	5.3	22 35 25.233	+2.1220	+ 1	+63 6 40.41	+18.675	— 22
854	[ε Pisc. austr.]	4.0	22 35 37.464	+3.3242	+ 12	—27 31 6.33	+18.705	+ 2
855	ζ Pegasi	3.3	22 36 55.386	+2.9912	+ 53	+10 21 21.77	+18.732	— 13
856	β Gruis	2.0	22 37 14.201	+3.5972	+118	—47 21 38.96	+18.728	— 25
857	η Pegasi	2.9	22 38 44.090	+2.8086	+ 12	+29 44 42.04	+18.767	— 33
858	[13 Lacertae]	5.4	22 40 1.839	+2.6699	— 6	+41 20 29.16	+18.843	+ 5
859	λ Pegasi	3.9	22 42 8.794	+2.8867	+ 41	+23 5 11.46	+18.891	— 10
860	ε Gruis	3.5	22 43 3.709	+3.6416	+ 97	—51 47 44.30	+18.853	— 73
861	[τ Aquarii]	4.0	22 44 46.503	+3.1793	— 12	—14 4 23.21	+18.944	— 33
862	[μ Pegasi]	3.6	22 45 36.584	+2.8925	+109	+24 7 15.05	+18.960	— 41
863	ι Cephei	3.5	22 46 26.260	+2.1264	—114	+65 43 17.85	+18.900	—123
864	λ Aquarii	3.8	22 47 52.069	+3.1315	+ 5	— 8 3 50.55	+19.100	+ 38
865	ρ Jndi	6.3	22 48 20.357	+4.2269	—103	—70 33 35.98	+19.136	+ 62
866	δ Aquarii	3.2	22 49 49.323	+3.1870	— 33	—16 18 17.86	+19.095	— 19
867	α Pisc. austr.	1.2	22 52 37.446	+3.3218	+248	—30 6 16.87	+19.026	—159
868	[ζ Gruis]	4.0	22 55 30.715	+3.5612	— 80	—53 14 32.38	+19.242	— 16
869	ο Androm.	3.5	22 57 43.900	+2.7538	+ 25	+41 50 12.02	+19.299	— 13
870	β Pegasi	2.4	22 59 21.661	+2.9043	+145	+27 35 20.29	+19.486	+137
871	α Pegasi	2.4	23 0 13.612	+2.9860	+ 41	+14 42 55.53	+19.326	— 41
872	θ Gruis	4.2	23 1 45.337	+3.3919	— 52	—44 0 43.56	+19.364	— 38
873	ε ² Aquarii	3.7	23 4 35.763	+3.2029	+ 33	—21 39 59.46	+19.499	+ 36
874	π Cephei	4.5	23 5 0.025	+1.8984	+ 28	+74 53 43.58	+19.446	— 25
875	Br. 3077	5.8	23 8 53.761	+2.8733	+2524	+56 39 56.64	+19.840	+296

Nr.	N a m e	Gr.	AR. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.0001	Dekl. 1909.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0°.001
876	[Tucanae 25 G.]	5.9	23 11 28.831	+3.5349	+233	-62° 29' 50.93	+19.546	- 53
877	γ Tucanae	3.9	23 12 7.383	+3.5230	- 60	-58 44 5.07	+19.691	+ 81
878	[γ Piscium]	3.7	23 12 26.856	+3.1094	+503	+ 2 47 5.57	+19.638	+ 17
879	γ Sculptoris	4.4	23 13 54.742	+3.2471	+ 10	-33 1 40.50	+19.574	- 68
880	τ Pegasi	4.5	23 16 7.873	+2.9654	+ 21	+23 14 31.41	+19.668	- 13
882	4 Cassiopejae	5.5	23 20 47.434	+2.6502	+ 17	+61 46 59.04	+19.743	- 10
881	[ν Pegasi]	4.4	23 20 50.148	+2.9903	+138	+22 54 10.69	+19.789	+ 35
883	[ο Gruis]	5.7	23 21 31.167	+3.3710	- 3	-53 13 31.66	+19.882	+118
884	α Piscium	5.1	23 22 16.050	+3.0752	+ 56	+ 0 45 26.28	+19.683	- 93
885	70 Pegasi	4.7	23 24 33.083	+3.0316	+ 38	+12 15 30.06	+19.835	+ 28
886	[β Sculptoris]	4.4	23 28 5.625	+3.2256	+ 65	-38 19 17.94	+19.866	+ 14
887	[72 Pegasi]	5.2	23 29 26.168	+2.9704	+ 40	+30 49 22.65	+19.856	- 12
888	[Aquarii 248 G.]	6.7	23 30 50.438	+3.0949	- 13	- 7 58 5.35	+19.908	+ 23
889	[Phoenicis II G.]	4.6	23 32 57.213	+3.2401	+ 48	-45 59 46.16	+19.871	- 37
890	[λ Androm.]	3.8	23 33 6.374	+2.9260	+150	+45 57 53.99	+19.485	-423
891	ε Androm.	4.1	23 33 40.184	+2.9334	+ 27	+42 45 50.92	+19.909	- 5
892	ε Piscium	4.1	23 35 16.144	+3.0843	+247	+ 5 7 58.54	+19.490	-440
893	γ Cephei	3.3	23 35 36.295	+2.4332	-193	+77 7 27.97	+20.090	+157
894	ω ³ Aquarii	4.5	23 38 0.251	+3.1134	+ 65	-15 2 53.27	+19.892	- 63
895	41 H. Cephei	5.2	23 43 33.148	+2.8457	+ 23	+67 18 4.17	+19.996	+ 1
896	Lac. δ Sculpt.	4.4	23 44 11.244	+3.1299	+ 71	-28 38 0.93	+19.894	-105
897	[Aquarii 268 G.]	6.3	23 45 32.993	+3.0966	+ 86	-10 28 55.68	+20.094	+ 86
898	φ Pegasi	5.4	23 47 51.401	+3.0479	- 8	+18 36 53.43	+19.980	- 39
899	[ρ Cassiopejae]	4.8	23 49 49.891	+2.9806	- 7	+56 59 35.08	+20.030	+ 4
900	[27 Piscium]	5.1	23 54 0.854	+3.0712	- 37	- 4 3 39.14	+19.971	- 69
901	[π Phoenicis]	5.2	23 54 12.962	+3.1207	+ 31	-53 15 15.48	+20.085	+ 45
902	ω Piscium	3.9	23 54 38.250	+3.0790	+100	+ 6 21 34.17	+19.932	-109
903	ε Tucanae	4.5	23 55 11.560	+3.1421	+ 63	-66 5 0.27	+20.009	- 33
904	[θ Octantis]	5.0	23 56 55.701	+3.1316	-221	-77 34 5.19	+19.874	-171
905	[2 Ceti]	4.5	23 59 4.729	+3.0754	+ 12	-17 50 33.21	+20.043	- 4

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

N a m e	Gr.	AR. 1909.0	Jährl. Veränderung	Jährl. Eigenbewegung o°.	Dekl. 1909.0	Jährl. Veränderung	Jährl. Eigenbewegung o°.
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Nördliche Polsterne.

<i>Na</i> 43 H. Cephei	4.3	0 ^h 56 ^m 8.633	+ 7.5277	+0736	+85° 46' 9.67	+19.446	-001
<i>Nb</i> α Ursae min.	2.0	1 26 28.661	+27.1317	+1387	+88 49 14.83	+18.638	+002
<i>Nc</i> Gr. 750	6.8	4 7 42.234	+17.4774	+0157	+85 18 54.73	+ 9.467	+033
<i>Nd</i> 51 H. Cephei	5.2	6 58 10.071	+29.4099	-0499	+87 11 36.33	- 5.070	-037
<i>Ne</i> I H. Dracon.	4.3	9 24 11.163	+ 8.8465	-0062	+81 43 46.66	-15.609	-020
<i>Nf</i> [30 H. Camel.]	5.2	10 20 3.905	+ 7.6374	-0470	+83 1 20.00	-18.140	+031
<i>Ng</i> ε Ursae min.	4.2	16 55 15.632	- 6.2752	+0075	+82 11 17.92	- 5.582	+006
<i>Nh</i> δ Ursae min.	4.3	18 1 37.306	-19.4975	+0176	+86 36 50.73	+ 0.199	+057
<i>Ni</i> λ Ursae min.	6.8	19 12 8.846	-70.1389	-0920	+89 0 15.72	+ 6.216	+010
<i>Nk</i> 76 Draconis	6.0	20 49 13.727	- 4.1214	+0164	+82 11 41.94	+13.520	+027

Südliche Polsterne.

<i>Sa</i> Octantis 4 G.	6	1 ^h 42 ^m 33.02	- 3.837	+019	-85° 13' 46.19	+18.107	+035
<i>Sb</i> [ε Mensae]	6	5 9 11.67	- 6.971	-015	-82 35 36.05	+ 4.409	+001
<i>Sc</i> ζ Octantis	6-5	9 10 3.42	- 7.998	-093	-85 17 59.64	-14.736	+047
<i>Sd</i> ι Octantis	6-5	12 45 19.81	+ 5.907	+041	-84 37 45.46	-19.630	+025
<i>Se</i> Octantis 20 G.	7	14 42 44.50	+25.368	-181	-87 46 48.90	-15.266	-066
<i>Sf</i> Octantis 26 G.	6-7	16 26 47.54	+21.551	+005	-86 11 55.54	- 7.932	-002
<i>Sg</i> γ Octantis	6	18 1 26.25	+35.747	-097	-87 39 53.50	- 0.008	-126
<i>Sh</i> σ Octantis	6	19 14 48.92	+98.622	+116	-89 14 24.26	+ 6.426	-003
<i>Si</i> β Octantis	4-5	22 36 48.35	+ 6.357	-033	-81 51 33.04	+18.736	-004
<i>Sk</i> τ Octantis	6	23 14 46.28	+10.531	+022	-87 58 55.83	+19.672	+015

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 55 ^m	+85° 46'	1 ^h 25 ^m	+88° 49'	4 ^h 7 ^m	+85° 19'
Jan. 0	67.44 ²⁶	23.45 ⁶	92.98 ⁹¹	28.65 ¹¹	49.54 ¹¹	4.10 ²⁶
1	67.18 ²⁶	23.51 ⁷	92.07 ⁹⁰	28.76 ¹¹	49.43 ¹⁰	4.36 ²⁶
2	66.92 ²⁵	23.58 ⁸	91.17 ⁹⁰	28.87 ¹³	49.33 ⁹	4.62 ²⁶
3	66.67 ²⁶	23.66 ⁸	90.27 ⁹²	29.00 ¹³	49.24 ¹⁰	4.88 ²⁸
4	66.41 ²⁸	23.74 ⁸	89.35 ⁹⁷	29.13 ¹⁴	49.14 ¹¹	5.16 ²⁹
5	66.13 ³⁰	23.82 ⁹	88.38 ¹⁰⁴	29.27 ¹³	49.03 ¹¹	5.45 ³⁰
6	65.83 ³¹	23.91 ⁷	87.34 ¹¹⁰	29.40 ¹²	48.92 ¹³	5.75 ³¹
7	65.52 ³²	23.98 ⁶	86.24 ¹¹⁵	29.52 ¹¹	48.79 ¹⁶	6.06 ³⁰
8	65.20 ³²	24.04 ³	85.09 ¹¹⁹	29.63 ⁹	48.63 ¹⁷	6.36 ²⁹
9	64.88 ³⁴	24.07 ¹	83.90 ¹¹⁹	29.72 ⁷	48.46 ¹⁹	6.65 ²⁸
10	64.54 ³²	24.08 ⁻	82.71 ¹¹⁷	29.79 ⁵	48.27 ²⁰	6.93 ²⁶
11	64.22 ³⁰	24.07 ³	81.54 ¹¹⁴	29.84 ²	48.07 ¹⁹	7.19 ²⁴
12	63.92 ²⁹	24.04 ⁴	80.40 ¹⁰⁸	29.86 ¹	47.88 ¹⁹	7.43 ²²
13	63.63 ²⁸	24.00 ⁴	79.32 ¹⁰³	29.87 ¹	47.69 ¹⁸	7.65 ²⁰
14	63.35 ²⁷	23.96 ⁴	78.29 ⁹⁸	29.88 ¹	47.51 ¹⁷	7.85 ²⁰
15	63.08 ²⁶	23.92 ²	77.31 ⁹⁶	29.89 ¹	47.34 ¹⁶	8.05 ¹⁹
16	62.82 ²⁵	23.90 ¹	76.35 ⁹⁴	29.90 ⁴	47.18 ¹⁵	8.24 ²¹
17	62.57 ²⁷	23.89 ⁰	75.41 ⁹⁷	29.94 ⁴	47.03 ¹⁶	8.45 ²²
18	62.30 ²⁸	23.89 ⁰	74.44 ¹⁰²	29.98 ⁶	46.87 ¹⁶	8.67 ²⁴
19	62.02 ²⁹	23.89 ⁰	73.42 ¹⁰⁸	30.04 ⁵	46.71 ¹⁷	8.91 ²⁴
20	61.73 ³¹	23.89 ²	72.34 ¹¹³	30.09 ³	46.54 ¹⁹	9.15 ²⁵
21	61.42 ³²	23.87 ³	71.21 ¹¹⁸	30.12 ²	46.35 ²⁰	9.40 ²⁵
22	61.10 ³³	23.84 ⁵	70.03 ¹¹⁹	30.14 ⁰	46.15 ²²	9.65 ²³
23	60.77 ³²	23.79 ⁸	68.84 ¹¹⁹	30.14 ²	45.93 ²³	9.88 ²¹
24	60.45 ³¹	23.71 ¹⁰	67.65 ¹¹⁶	30.12 ⁴	45.70 ²⁴	10.09 ¹⁹
25	60.14 ²⁹	23.61 ¹¹	66.49 ¹¹⁰	30.08 ⁵	45.46 ²⁴	10.28 ¹⁶
26	59.85 ²⁷	23.50 ¹²	65.39 ¹⁰⁴	30.03 ⁸	45.22 ²²	10.44 ¹⁵
27	59.58 ²⁵	23.38 ¹¹	64.35 ⁹⁹	29.95 ⁷	45.00 ²²	10.59 ¹³
28	59.33 ²⁵	23.27 ¹¹	63.36 ⁹⁴	29.88 ⁷	44.78 ²¹	10.72 ¹⁴
29	59.08 ²³	23.16 ¹⁰	62.42 ⁹²	29.81 ⁶	44.57 ²¹	10.86 ¹³
30	58.85 ²⁵	23.06 ¹⁰	61.50 ⁹³	29.75 ⁵	44.36 ¹⁹	10.99 ¹⁴
31	58.60 ²⁵	22.96 ⁹	60.57 ⁹⁵	29.70 ⁵	44.17 ¹⁹	11.13 ¹⁵
Febr. 1	58.35 ²⁷	22.87 ⁹	59.62 ¹⁰⁰	29.65 ⁵	43.98 ²¹	11.28 ¹⁶
2	58.08 ²⁷	22.78 ¹⁰	58.62 ¹⁰⁵	29.60 ⁵	43.77 ²²	11.44 ¹⁷
3	57.81 ²⁹	22.68 ¹¹	57.57 ¹¹⁰	29.55 ⁶	43.55 ²⁴	11.61 ¹⁷
4	57.52 ³⁰	22.57 ¹³	56.47 ¹¹⁴	29.49 ⁷	43.31 ²⁵	11.78 ¹⁵
5	57.22 ²⁹	22.44 ¹⁶	55.33 ¹¹⁵	29.42 ¹⁰	43.06 ²⁷	11.93 ¹⁵
6	56.93	22.28	54.18	29.32	42.79	12.08
O. K.	+ 0°.29 cos φ		+ 1°.04 cos φ		+ 0°.26 cos φ	
U. K.	- 0.29 cos φ		- 1.04 cos φ		- 0.26 cos φ	

SCHEINBARE STERNÖRTER.

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Obere Kulmination.

1909	43 Hcv. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 55 ^m	+85° 46'	1 ^h 25 ^m	+88° 40'	4 ^h 7 ^m	+85° 19'
Febr. 6	56.93 ₃₀	22.28 ₁₇	54.18 ₁₁₂	29.32 ₁₃	42.79 ₂₇	12.08 ₁₂
7	56.63 ₂₈	22.11 ₁₉	53.06 ₁₀₈	29.19 ₁₄	42.52 ₂₈	12.20 ₁₀
8	56.35 ₂₅	21.92 ₂₁	51.98 ₁₀₂	29.05 ₁₇	42.24 ₂₇	12.30 ₇
9	56.10 ₂₄	21.71 ₂₁	50.96 ₉₆	28.88 ₁₇	41.97 ₂₆	12.37 ₅
10	55.86 ₂₃	21.50 ₂₀	50.00 ₉₀	28.71 ₁₆	41.71 ₂₅	12.42 ₅
11	55.63 ₂₁	21.30 ₁₉	49.10 ₈₄	28.55 ₁₆	41.46 ₂₄	12.47 ₄
12	55.42 ₂₀	21.11 ₁₈	48.26 ₈₃	28.39 ₁₅	41.22 ₂₂	12.51 ₆
13	55.22 ₂₁	20.93 ₁₇	47.43 ₈₃	28.24 ₁₃	41.00 ₂₂	12.57 ₆
14	55.01 ₂₁	20.76 ₁₇	46.60 ₈₄	28.11 ₁₃	40.78 ₂₃	12.63 ₇
15	54.80 ₂₃	20.59 ₁₆	45.76 ₉₀	27.98 ₁₂	40.55 ₂₃	12.70 ₈
16	54.57 ₂₃	20.43 ₁₇	44.86 ₉₄	27.86 ₁₂	40.32 ₂₅	12.78 ₉
17	54.34 ₂₅	20.26 ₁₈	43.92 ₉₇	27.74 ₁₄	40.07 ₂₅	12.87 ₉
18	54.09 ₂₅	20.08 ₁₉	42.95 ₁₀₀	27.60 ₁₆	39.82 ₂₇	12.96 ₇
19	53.84 ₂₄	19.89 ₂₂	41.95 ₉₉	27.44 ₁₈	39.55 ₂₇	13.03 ₆
20	53.60 ₂₄	19.67 ₂₄	40.96 ₉₆	27.26 ₂₀	39.28 ₂₉	13.09 ₄
21	53.36 ₂₂	19.43 ₂₅	40.00 ₉₁	27.06 ₂₁	38.99 ₂₈	13.13 ₁
22	53.14 ₂₀	19.18 ₂₇	39.09 ₈₄	26.85 ₂₃	38.71 ₂₈	13.14 ₂
23	52.94 ₁₈	18.91 ₂₆	38.25 ₇₆	26.62 ₂₄	38.43 ₂₆	13.12 ₂
24	52.76 ₁₆	18.65 ₂₆	37.49 ₇₀	26.38 ₂₃	38.17 ₂₄	13.10 ₄
25	52.60 ₁₆	18.39 ₂₅	36.79 ₆₇	26.15 ₂₂	37.93 ₂₄	13.06 ₄
26	52.44 ₁₅	18.14 ₂₄	36.12 ₆₄	25.93 ₂₀	37.69 ₂₃	13.02 ₃
27	52.29 ₁₅	17.90 ₂₂	35.48 ₆₅	25.73 ₂₀	37.46 ₂₃	12.99 ₂
28	52.14 ₁₆	17.68 ₂₂	34.83 ₆₉	25.53 ₂₀	37.23 ₂₂	12.97 ₁
März 1	51.98 ₁₇	17.46 ₂₂	34.14 ₇₄	25.33 ₂₀	37.01 ₂₄	12.96 ₀
2	51.81 ₁₉	17.24 ₂₄	33.40 ₇₇	25.13 ₂₀	36.77 ₂₅	12.96 ₀
3	51.62 ₁₉	17.00 ₂₅	32.63 ₈₀	24.93 ₂₁	36.52 ₂₇	12.96 ₁
4	51.43 ₂₀	16.75 ₂₇	31.83 ₈₁	24.72 ₂₄	36.25 ₂₇	12.95 ₂
5	51.23 ₁₉	16.48 ₂₉	31.02 ₈₀	24.48 ₂₅	35.98 ₂₉	12.93 ₄
6	51.04 ₁₇	16.19 ₃₁	30.22 ₇₆	24.23 ₂₈	35.69 ₂₈	12.89 ₆
7	50.87 ₁₅	15.88 ₃₁	29.46 ₇₀	23.95 ₂₉	35.41 ₂₈	12.83 ₉
8	50.72 ₁₃	15.57 ₃₂	28.76 ₆₁	23.66 ₃₀	35.13 ₂₇	12.74 ₁₀
9	50.59 ₁₁	15.25 ₃₂	28.15 ₅₃	23.36 ₃₀	34.86 ₂₆	12.64 ₁₂
10	50.48 ₉	14.93 ₃₁	27.62 ₄₈	23.06 ₂₈	34.60 ₂₃	12.52 ₁₂
11	50.39 ₉	14.62 ₂₉	27.14 ₄₅	22.78 ₂₈	34.37 ₂₃	12.40 ₁₂
12	50.30 ₈	14.33 ₂₇	26.69 ₄₂	22.50 ₂₇	34.14 ₂₁	12.28 ₁₂
13	50.22 ₈	14.06 ₂₇	26.27 ₄₃	22.23 ₂₅	33.93 ₂₁	12.16 ₁₀
14	50.14 ₁₀	13.79 ₂₆	25.84 ₄₇	21.98 ₂₄	33.72 ₂₂	12.06 ₉
15	50.04	13.53	25.37	21.74	33.50	11.97

O. K.
U. K.

+ 0°.29 cos φ
- 0.29 cos φ

+ 1°.04 cos φ
- 1.04 cos φ

+ 0°.26 cos φ
- 0.26 cos φ

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 55 ^m	+85° 46'	1 ^h 25 ^m	+88° 49'	4 ^h 7 ^m	+85° 19'
März 15	50.04	13.53	25.37	21.74	33.50	11.97
16	49.93	13.28	24.87	21.50	33.28	11.90
17	49.82	13.01	24.33	21.26	33.05	11.82
18	49.70	12.74	23.77	21.00	32.80	11.74
19	49.59	12.44	23.22	20.72	32.55	11.64
20	49.48	12.13	22.69	20.44	32.30	11.51
21	49.39	11.81	22.21	20.13	32.05	11.37
22	49.32	11.47	21.81	19.81	31.81	11.20
23	49.27	11.13	21.49	19.47	31.58	11.02
24	49.24	10.80	21.23	19.15	31.37	10.84
25	49.23	10.49	21.03	18.84	31.17	10.64
26	49.21	10.20	20.86	18.54	30.99	10.46
27	49.20	9.91	20.70	18.26	30.81	10.28
28	49.19	9.63	20.52	17.99	30.63	10.11
29	49.16	9.36	20.31	17.71	30.45	9.95
30	49.13	9.09	20.06	17.44	30.26	9.80
31	49.08	8.80	19.77	17.17	30.07	9.65
April 1	49.04	8.49	19.46	16.87	29.86	9.49
2	49.00	8.17	19.17	16.56	29.64	9.31
3	48.97	7.84	18.91	16.24	29.42	9.11
4	48.96	7.49	18.71	15.89	29.21	8.89
5	48.97	7.14	18.59	15.55	29.01	8.65
6	49.01	6.80	18.54	15.20	28.82	8.41
7	49.06	6.46	18.56	14.86	28.65	8.15
8	49.12	6.15	18.64	14.53	28.50	7.89
9	49.19	5.85	18.75	14.23	28.36	7.65
10	49.26	5.57	18.85	13.94	28.23	7.41
11	49.32	5.31	18.94	13.66	28.11	7.19
12	49.37	5.05	19.00	13.39	27.98	6.98
13	49.41	4.78	19.01	13.12	27.84	6.78
14	49.44	4.52	18.99	12.84	27.70	6.58
15	49.48	4.24	18.98	12.56	27.54	6.38
16	49.53	3.94	19.03	12.26	27.38	6.15
17	49.58	3.63	19.14	11.94	27.23	5.90
18	49.65	3.32	19.33	11.62	27.09	5.63
19	49.75	3.00	19.59	11.29	26.96	5.34
	49.86	2.69		10.96		
O. K.	+ 0°.29 cos φ		+ 1°.04 cos φ		+ 0°.26 cos φ	
U. K.	- 0.29 cos φ		- 1.04 cos φ		- 0.26 cos φ	

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 55 ^m	+85° 45'	1 ^h 25 ^m	+88° 49'	4 ^h 7 ^m	+85° 18'
April 19	49.86	62.69	19.59	10.96	26.96	65.34
20	49.99 ¹³	62.39 ³⁰	19.91 ³²	10.64 ³²	26.84 ¹²	65.05 ²⁹
21	50.13 ¹⁴	62.11 ²⁸	20.28 ³⁷	10.34 ³⁰	26.75 ⁹	64.75 ³⁰
22	50.27 ¹⁴	61.86 ²⁵	20.66 ³⁸	10.06 ²⁸	26.66 ⁹	64.46 ²⁹
23	50.41 ¹²	61.61 ²⁵	21.02 ³⁶	9.79 ²⁷	26.59 ⁷	64.19 ²⁷
24	50.53 ¹²	61.38 ²³	21.36 ³⁴	9.54 ²⁵	26.53 ⁶	63.92 ²⁷
25	50.66 ¹³	61.15 ²⁴	21.67 ³¹	9.28 ²⁶	26.46 ⁷	63.92 ²⁵
26	50.77 ¹¹	60.91 ²⁵	21.93 ²⁶	9.28 ²⁵	26.46 ⁷	63.67 ²⁴
27	50.87 ¹⁰	60.91 ²⁵	21.93 ²³	9.03 ²⁶	26.39 ⁸	63.43 ²⁴
28	50.97 ¹⁰	60.66 ²⁷	22.16 ²²	8.77 ²⁸	26.31 ⁹	63.19 ²⁴
29	51.08 ¹¹	60.39 ²⁷	22.38 ²⁶	8.49 ²⁹	26.22 ¹⁰	62.95 ²⁵
30	51.08 ¹³	60.12 ²⁸	22.64 ³¹	8.20 ³⁰	26.12 ¹⁰	62.70 ²⁷
Mai 1	51.21 ¹⁴	59.84 ³⁰	22.95 ³⁷	7.90 ³²	26.02 ¹⁰	62.43 ²⁹
2	51.35 ¹⁷	59.54 ²⁸	23.32 ⁴⁵	7.58 ³¹	25.92 ⁸	62.14 ³⁰
3	51.52 ¹⁸	59.26 ²⁷	23.77 ⁵²	7.27 ³⁰	25.84 ⁷	61.84 ³²
4	51.70 ¹⁹	58.99 ²⁶	24.29 ⁵⁷	6.97 ²⁹	25.77 ⁵	61.52 ³³
5	51.89 ²¹	58.73 ²³	24.86 ⁶¹	6.68 ²⁷	25.72 ⁴	61.19 ³²
6	52.10 ²²	58.50 ²²	25.47 ⁶³	6.41 ²⁴	25.68 ²	60.87 ³¹
7	52.32 ²⁰	58.28 ¹⁹	26.10 ⁶⁰	6.17 ²³	25.66 ⁰	60.56 ³⁰
8	52.52 ¹⁸	58.09 ¹⁸	26.70 ⁵⁷	5.94 ²¹	25.66 ⁰	60.26 ²⁸
9	52.70 ¹⁸	57.91 ¹⁷	27.27 ⁵³	5.73 ²⁰	25.66 ¹	59.98 ²⁷
10	52.88 ¹⁷	57.74 ¹⁸	27.80 ⁴⁹	5.53 ²²	25.65 ⁰	59.71 ²⁵
11	53.05 ¹⁶	57.56 ¹⁹	28.29 ⁴⁸	5.31 ²²	25.65 ¹	59.46 ²⁵
12	53.21 ¹⁷	57.37 ²⁰	28.77 ⁴⁸	5.09 ²²	25.64 ²	59.21 ²⁶
13	53.38 ¹⁷	57.17 ²²	29.25 ⁵⁰	4.87 ²⁴	25.62 ²	58.95 ²⁶
14	53.55 ¹⁹	56.95 ²²	29.75 ⁵⁶	4.63 ²⁵	25.60 ³	58.69 ²⁸
15	53.74 ²¹	56.73 ²²	30.31 ⁶³	4.38 ²⁵	25.57 ³	58.41 ²⁹
16	53.95 ²³	56.51 ²²	30.94 ⁷⁰	4.13 ²⁵	25.56 ¹	58.12 ³¹
17	54.18 ²⁵	56.29 ²⁰	31.64 ⁷⁶	3.88 ²⁵	25.55 ¹	57.81 ³³
18	54.43 ²⁵	56.09 ¹⁹	32.40 ⁸²	3.63 ²²	25.56 ³	57.48 ³²
19	54.68 ²⁷	55.90 ¹⁶	33.22 ⁸³	3.41 ²¹	25.59 ⁵	57.16 ³²
20	54.95 ²⁶	55.74 ¹⁵	34.05 ⁸²	3.20 ¹⁸	25.64 ⁶	56.84 ³¹
21	55.21 ²⁵	55.59 ¹³	34.87 ⁸⁰	3.02 ¹⁷	25.70 ⁶	56.53 ²⁸
22	55.46 ²³	55.46 ¹²	35.67 ⁷⁵	2.85 ¹⁶	25.76 ⁷	56.25 ²⁸
23	55.69 ²²	55.34 ¹²	36.42 ⁷¹	2.69 ¹⁶	25.83 ⁷	55.97 ²⁶
24	55.91 ²¹	55.22 ¹²	37.13 ⁶⁸	2.53 ¹⁶	25.90 ⁵	55.71 ²⁵
25	56.12 ²¹	55.10 ¹³	37.81 ⁶⁴	2.37 ¹⁸	25.95 ⁵	55.46 ²⁴
	56.33 ²¹	54.97 ¹³	38.45	2.19	26.00 ⁴	55.22 ²⁶
					26.04	54.96
O. K.	+ 0°.29 cos φ		+ 1°.03 cos φ		+ 0°.26 cos φ	
U. K.	- 0°.29 cos φ		- 1°.03 cos φ		- 0°.26 cos φ	

Obere Kulmination.

1909	43. Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.		
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	
	0 ^h 55 ^m	+85° 45'	1 ^h 25 ^m	+88° 48'	4 ^h 7 ^m	+85° 18'	
Mai	25	56.33 ²¹	54.97 ¹⁶	38.45 ⁶⁶	62.19 ¹⁸	26.04 ⁴	54.96 ²⁶
	26	56.54 ²³	54.81 ¹⁶	39.11 ⁶⁹	62.01 ¹⁹	26.08 ⁴	54.70 ²⁸
	27	56.77 ²³	54.65 ¹⁷	39.80 ⁷⁴	61.82 ²¹	26.12 ⁵	54.42 ³⁰
	28	57.00 ²⁶	54.48 ¹⁶	40.54 ⁸¹	61.61 ²⁰	26.17 ⁵	54.12 ³¹
	29	57.26 ²⁸	54.32 ¹⁶	41.35 ⁸⁸	61.41 ²⁰	26.22 ⁷	53.81 ³²
	30	57.54 ²⁹	54.16 ¹³	42.23 ⁹⁴	61.21 ¹⁸	26.29 ¹⁰	53.49 ³¹
	31	57.83 ³⁰	54.03 ¹²	43.17 ⁹⁸	61.03 ¹⁶	26.39 ¹⁰	53.18 ³¹
Juni	1	58.13 ³⁰	53.91 ⁹	44.15 ⁹⁹	60.87 ¹⁴	26.49 ¹³	52.87 ²⁹
	2	58.43 ²⁸	53.82 ⁷	45.14 ⁹⁸	60.73 ¹²	26.62 ¹³	52.58 ²⁷
	3	58.71 ²⁸	53.75 ⁵	46.12 ⁹⁴	60.61 ¹⁰	26.75 ¹⁴	52.31 ²⁵
	4	58.99 ²⁷	53.70 ⁵	47.06 ⁸⁹	60.51 ⁹	26.89 ¹³	52.06 ²³
	5	59.26 ²⁶	53.65 ⁴	47.95 ⁸⁴	60.42 ⁸	27.02 ¹¹	51.83 ²²
	6	59.52 ²⁴	53.61 ⁴	48.79 ⁸¹	60.34 ⁹	27.13 ¹¹	51.61 ²²
	7	59.76 ²⁴	53.56 ⁶	49.60 ⁸¹	60.25 ¹⁰	27.24 ¹²	51.39 ²³
	8	60.00 ²⁵	53.50 ⁷	50.41 ⁸¹	60.15 ¹¹	27.36 ¹¹	51.16 ²⁴
	9	60.25 ²⁶	53.43 ⁸	51.22 ⁸⁵	60.04 ¹²	27.47 ¹¹	50.92 ²⁵
	10	60.51 ²⁷	53.35 ⁸	52.07 ⁹¹	59.92 ¹³	27.58 ¹²	50.67 ²⁶
	11	60.78 ²⁹	53.27 ⁸	52.98 ⁹⁸	59.79 ¹²	27.70 ¹²	50.41 ²⁸
	12	61.07 ³⁰	53.19 ⁷	53.96 ¹⁰³	59.67 ¹²	27.82 ¹⁵	50.13 ²⁹
	13	61.37 ³²	53.12 ⁴	54.99 ¹⁰⁸	59.55 ¹⁰	27.97 ¹⁷	49.84 ²⁷
	14	61.69 ³³	53.08 ³	56.07 ¹¹⁰	59.45 ⁷	28.14 ¹⁸	49.57 ²⁷
	15	62.02 ³³	53.05 ⁰	57.17 ¹¹¹	59.38 ⁶	28.32 ¹⁸	49.30 ²⁵
	16	62.35 ³¹	53.05 ¹	58.28 ¹⁰⁸	59.32 ⁴	28.50 ²⁰	49.05 ²⁴
	17	62.66 ²⁹	53.06 ²	59.36 ¹⁰³	59.28 ²	28.70 ¹⁹	48.81 ²¹
	18	62.95 ²⁸	53.08 ³	60.39 ⁹⁷	59.26 ²	28.89 ¹⁸	48.60 ¹⁹
	19	63.23 ²⁷	53.11 ³	61.36 ⁹²	59.24 ²	29.07 ¹⁸	48.41 ¹⁹
	20	63.50 ²⁵	53.14 ¹	62.28 ⁸⁹	59.22 ³	29.25 ¹⁷	48.22 ¹⁸
21	63.75 ²⁶	53.15 ⁰	63.17 ⁸⁸	59.19 ⁴	29.42 ¹⁵	48.04 ²⁰	
22	64.01 ²⁶	53.15 ⁰	64.05 ⁸⁹	59.15 ⁵	29.57 ¹⁵	47.84 ²¹	
23	64.27 ²⁸	53.15 ²	64.94 ⁹³	59.10 ⁶	29.72 ¹⁶	47.63 ²²	
24	64.55 ²⁸	53.13 ¹	65.87 ⁹⁹	59.04 ⁶	29.88 ¹⁶	47.41 ²⁴	
25	64.83 ³¹	53.12 ⁰	66.86 ¹⁰⁵	58.98 ⁶	30.04 ¹⁹	47.17 ²⁴	
26	65.14 ³³	53.12 ¹	67.91 ¹¹¹	58.92 ⁵	30.23 ²⁰	46.93 ²⁴	
27	65.47 ³³	53.13 ²	69.02 ¹¹⁵	58.87 ²	30.43 ²²	46.69 ²⁴	
28	65.80 ³²	53.15 ⁵	70.17 ¹¹⁶	58.85 ⁰	30.65 ²³	46.45 ²²	
29	66.12 ³³	53.20 ⁷	71.33 ¹¹⁵	58.85 ²	30.88 ²⁴	46.23 ²⁰	
30	66.45 ³¹	53.27 ⁹	72.48 ¹¹¹	58.87 ⁴	31.12 ²⁴	46.03 ¹⁸	
Juli	1	66.76 ³¹	53.36 ⁹	73.59 ¹¹¹	58.91 ⁴	31.36 ²⁴	45.85 ¹⁸
O. K.	+ 0°.29 cos φ		+ 1°.03 cos φ		+ 0°.26 cos φ		
U. K.	- 0°.29 cos φ		- 1°.03 cos φ		- 0°.26 cos φ		

Obere Kulmination.

1909	43 Hev. Cephei, 4 ^m .3.		α Ursae minoris, 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 56 ^m	+85° 45'	1 ^h 26 ^m	+88° 48'	4 ^h 7 ^m	+85° 18'
Juli	1 6.76 ³⁰	53.36 ¹¹	13.59 ¹⁰⁶	58.91 ⁵	31.36 ²⁴	45.85 ¹⁵
	2 7.06 ²⁸	53.47 ¹⁰	14.65 ¹⁰¹	58.96 ⁵	31.60 ²³	45.70 ¹⁵
	3 7.34 ²⁷	53.57 ¹¹	15.66 ⁹⁷	59.01 ⁷	31.83 ²²	45.55 ¹⁴
	4 7.61 ²⁶	53.68 ⁹	16.63 ⁹³	59.08 ⁵	32.05 ²¹	45.41 ¹³
	5 7.87 ²⁶	53.77 ⁹	17.56 ⁹³	59.13 ⁵	32.26 ²¹	45.28 ¹⁴
	6 8.13 ²⁷	53.86 ⁸	18.49 ⁹⁵	59.18 ²	32.47 ²⁰	45.14 ¹⁶
	7 8.40 ²⁸	53.94 ⁷	19.44 ⁹⁹	59.20 ³	32.67 ²²	44.98 ¹⁷
	8 8.68 ²⁹	54.01 ⁷	20.43 ¹⁰⁵	59.23 ³	32.89 ²²	44.81 ¹⁸
	9 8.97 ³¹	54.08 ⁸	21.48 ¹¹⁰	59.26 ³	33.11 ²⁴	44.63 ¹⁹
	10 9.28 ³³	54.16 ⁹	22.58 ¹¹⁵	59.29 ⁵	33.35 ²⁶	44.44 ¹⁸
	11 9.61 ³²	54.25 ¹²	23.73 ¹¹⁸	59.34 ⁶	33.61 ²⁷	44.26 ¹⁷
	12 9.93 ³²	54.37 ¹⁴	24.91 ¹¹⁸	59.40 ⁹	33.88 ²⁸	44.09 ¹⁶
	13 10.25 ³²	54.51 ¹⁶	26.09 ¹¹⁶	59.49 ¹⁰	34.16 ²⁸	43.93 ¹⁴
	14 10.57 ³⁰	54.67 ¹⁷	27.25 ¹¹¹	59.59 ¹²	34.44 ²⁹	43.79 ¹²
	15 10.87 ²⁹	54.84 ¹⁸	28.36 ¹⁰⁴	59.71 ¹³	34.73 ²⁷	43.67 ¹⁰
	16 11.16 ²⁷	55.02 ¹⁸	29.40 ⁹⁸	59.84 ¹³	35.00 ²⁶	43.57 ⁸
	17 11.43 ²⁵	55.20 ¹⁷	30.38 ⁹⁴	59.97 ¹²	35.26 ²⁵	43.49 ⁸
	18 11.68 ²⁴	55.37 ¹⁶	31.32 ⁹⁰	60.09 ¹²	35.51 ²⁴	43.41 ⁹
	19 11.92 ²⁵	55.53 ¹⁴	32.22 ⁹¹	60.21 ¹⁰	35.75 ²⁴	43.32 ⁹
	20 12.17 ²⁵	55.67 ¹³	33.13 ⁹⁴	60.31 ¹⁰	35.99 ²³	43.23 ¹⁰
	21 12.42 ²⁷	55.80 ¹³	34.07 ⁹⁷	60.41 ⁸	36.22 ²⁴	43.13 ¹²
	22 12.69 ²⁹	55.93 ¹⁴	35.04 ¹⁰³	60.49 ⁹	36.46 ²⁵	43.01 ¹³
	23 12.98 ²⁹	56.07 ¹⁴	36.07 ¹⁰⁸	60.58 ¹⁰	36.71 ²⁷	42.88 ¹⁴
	24 13.27 ³⁰	56.21 ¹⁶	37.15 ¹¹²	60.68 ¹¹	36.98 ²⁹	42.74 ¹³
	25 13.57 ³¹	56.37 ¹⁹	38.27 ¹¹⁴	60.79 ¹³	37.27 ³⁰	42.61 ¹¹
	26 13.88 ³⁰	56.56 ²¹	39.41 ¹¹³	60.92 ¹⁶	37.57 ³¹	42.50 ¹⁰
	27 14.18 ³⁰	56.77 ²³	40.54 ¹¹⁰	61.08 ¹⁸	37.88 ³⁰	42.40 ⁷
	28 14.48 ²⁷	57.00 ²³	41.64 ¹⁰⁴	61.26 ¹⁹	38.18 ³¹	42.33 ⁵
	29 14.75 ²⁵	57.23 ²⁴	42.68 ⁹⁸	61.45 ²¹	38.49 ³¹	42.28 ²
	30 15.00 ²⁴	57.47 ²⁵	43.66 ⁹³	61.66 ²⁰	38.80 ²⁹	42.26 ²
	31 15.24 ²³	57.72 ²⁴	44.59 ⁸⁹	61.86 ²⁰	39.09 ²⁸	42.24 ¹
Aug.	1 15.47 ²³	57.96 ²²	45.48 ⁸⁶	62.06 ¹⁹	39.37 ²⁷	42.23 ²
	2 15.70 ²¹	58.18 ²²	46.34 ⁸⁷	62.25 ¹⁸	39.64 ²⁷	42.21 ⁴
	3 15.91 ²³	58.40 ²¹	47.21 ⁸⁹	62.43 ¹⁷	39.91 ²⁷	42.17 ⁴
	4 16.14 ²⁵	58.61 ²¹	48.10 ⁹⁴	62.60 ¹⁶	40.18 ²⁸	42.13 ⁵
	5 16.39 ²⁷	58.82 ²¹	49.04 ¹⁰⁰	62.76 ¹⁷	40.46 ²⁹	42.08 ⁶
	6 16.66 ²⁷	59.03 ²³	50.04 ¹⁰⁴	62.93 ¹⁷	40.75 ³⁰	42.02 ⁷
	7 16.93	59.26	51.08	63.10	41.05	41.95
O. K.	+ 0°.29 cos φ		+ 1°.03 cos φ		+ 0°.26 cos φ	
U. K.	- 0°.29 cos φ		- 1°.03 cos φ		- 0°.26 cos φ	

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 56 ^m	+85° 45'	1 ^h 26 ^m	+88° 49'	4 ^h 7 ^m	+85° 18'
Aug. 7	16.93 ²⁹	59.26 ²⁴	51.08 ¹⁰⁶	3.10 ²⁰	41.05 ³¹	41.95 ⁵
8	17.22 ²⁷	59.50 ²⁶	52.14 ¹⁰⁷	3.30 ²¹	41.36 ³³	41.90 ⁴
9	17.49 ²⁷	59.76 ²⁸	53.21 ¹⁰⁵	3.51 ²⁴	41.69 ³³	41.86 ²
10	17.76 ²⁶	60.04 ²⁹	54.26 ¹⁰¹	3.75 ²⁵	42.02 ³³	41.84 ⁰
11	18.02 ²⁴	60.33 ³⁰	55.27 ⁹⁵	4.00 ²⁵	42.35 ³²	41.84 ²
12	18.26 ²²	60.63 ³¹	56.22 ⁸⁷	4.25 ²⁷	42.67 ³²	41.86 ³
13	18.48 ²⁰	60.94 ²⁹	57.09 ⁸¹	4.52 ²⁶	42.99 ³⁰	41.89 ⁵
14	18.68 ¹⁹	61.23 ²⁹	57.90 ⁷⁷	4.78 ²⁵	43.29 ²⁸	41.94 ⁵
15	18.87 ¹⁸	61.52 ²⁷	58.67 ⁷⁶	5.03 ²⁴	43.57 ²⁸	41.99 ⁴
16	19.05 ¹⁹	61.79 ²⁵	59.43 ⁷⁷	5.27 ²³	43.85 ²⁷	42.03 ²
17	19.24 ²⁰	62.04 ²⁵	60.20 ⁸⁰	5.50 ²²	44.12 ²⁷	42.05 ¹
18	19.44 ²¹	62.29 ²⁵	61.00 ⁸⁴	5.72 ²¹	44.39 ²⁸	42.06 ⁰
19	19.65 ²³	62.54 ²⁶	61.84 ⁸⁸	5.93 ²²	44.67 ³⁰	42.06 ⁰
20	19.88 ²⁴	62.80 ²⁷	62.72 ⁹²	6.15 ²³	44.97 ³⁰	42.06 ⁰
21	20.12 ²³	63.07 ²⁹	63.64 ⁹⁵	6.38 ²⁵	45.27 ³²	42.06 ⁰
22	20.35 ²³	63.36 ³¹	64.59 ⁹⁵	6.63 ²⁷	45.59 ³³	42.06 ³
23	20.58 ²²	63.67 ³³	65.54 ⁹²	6.90 ²⁹	45.92 ³³	42.09 ⁵
24	20.80 ²¹	64.00 ³⁴	66.46 ⁸⁷	7.19 ³¹	46.25 ³³	42.14 ⁵
25	21.01 ¹⁹	64.34 ³⁵	67.33 ⁸⁰	7.50 ³¹	46.58 ³³	42.21 ⁹
26	21.20 ¹⁷	64.69 ³⁶	68.13 ⁷⁴	7.81 ³³	46.91 ³²	42.30 ¹¹
27	21.37 ¹⁶	65.05 ³⁴	68.87 ⁶⁸	8.14 ³²	47.23 ³⁰	42.41 ¹¹
28	21.53 ¹⁵	65.39 ³⁴	69.55 ⁶⁵	8.46 ³¹	47.53 ³⁰	42.52 ¹¹
29	21.68 ¹⁵	65.73 ³³	70.20 ⁶⁴	8.77 ²⁹	47.83 ²⁸	42.63 ¹¹
30	21.83 ¹⁴	66.06 ³¹	70.84 ⁶⁵	9.06 ²⁹	48.11 ²⁸	42.74 ⁹
31	21.97 ¹⁶	66.37 ³⁰	71.49 ⁶⁸	9.35 ²⁷	48.39 ²⁸	42.83 ⁸
Sept. 1	22.13 ¹⁸	66.67 ³¹	72.17 ⁷⁴	9.62 ²⁸	48.67 ²⁹	42.91 ⁷
2	22.31 ¹⁹	66.98 ³¹	72.91 ⁷⁷	9.90 ²⁸	48.96 ³⁰	42.98 ⁷
3	22.50 ¹⁹	67.29 ³³	73.68 ⁸⁰	10.18 ³⁰	49.26 ³²	43.05 ⁶
4	22.69 ²⁰	67.62 ³⁴	74.48 ⁸²	10.48 ³²	49.58 ³³	43.11 ⁸
5	22.89 ¹⁸	67.96 ³⁶	75.30 ⁸⁰	10.80 ³³	49.91 ³⁴	43.19 ¹¹
6	23.07 ¹⁷	68.32 ³⁷	76.10 ⁷⁶	11.13 ³⁴	50.25 ³³	43.30 ¹²
7	23.24 ¹⁵	68.69 ³⁹	76.86 ⁷¹	11.47 ³⁶	50.58 ³³	43.42 ¹⁴
8	23.39 ¹⁴	69.08 ³⁹	77.57 ⁶³	11.83 ³⁷	50.91 ³¹	43.56 ¹⁶
9	23.53 ¹¹	69.47 ³⁹	78.20 ⁵⁵	12.20 ³⁷	51.22 ³⁰	43.72 ¹⁷
10	23.64 ¹⁰	69.86 ³⁷	78.75 ⁵⁰	12.57 ³⁵	51.52 ²⁹	43.89 ¹⁷
11	23.74 ¹⁰	70.23 ³⁶	79.25 ⁴⁸	12.92 ³⁴	51.81 ²⁸	44.06 ¹⁷
12	23.84 ⁹	70.59 ³⁴	79.73 ⁴⁶	13.26 ³²	52.09 ²⁶	44.23 ¹⁶
13	23.93	70.93	80.19	13.58	52.35	44.39
O. K.	+ 0°.29 cos φ		+ 1°.03 cos φ		+ 0°.26 cos φ	
U. K.	- 0°.29 cos φ		- 1°.03 cos φ		- 0°.26 cos φ	

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 56 ^m	+85° 46'	1 ^h 27 ^m	+88° 49'	4 ^h 7 ^m	+85° 18'
Sept. 13	23.93 ¹⁰	10.93 ³³	20.19 ⁴⁸	13.58 ³¹	52.35 ²⁶	44.39 ¹⁴
14	24.03 ¹¹	11.26 ³²	20.67 ⁵²	13.89 ³¹	52.61 ²⁷	44.53 ¹³
15	24.14 ¹³	11.58 ³³	21.19 ⁵⁶	14.20 ³¹	52.88 ²⁷	44.66 ¹²
16	24.27 ¹³	11.91 ³³	21.75 ⁶⁰	14.51 ³¹	53.15 ²⁹	44.78 ¹²
17	24.40 ¹³	12.24 ³⁵	22.35 ⁶³	14.82 ³³	53.44 ³⁰	44.90 ¹⁴
18	24.53 ¹⁴	12.59 ³⁷	22.98 ⁶⁴	15.15 ³⁴	53.74 ³¹	45.04 ¹⁴
19	24.67 ¹³	12.96 ³⁹	23.62 ⁶¹	15.49 ³⁷	54.05 ³¹	45.18 ¹⁶
20	24.80 ¹²	13.35 ⁴⁰	24.23 ⁵⁶	15.86 ³⁹	54.36 ³²	45.34 ¹⁹
21	24.92 ⁹	13.75 ⁴¹	24.79 ⁵⁰	16.25 ³⁹	54.68 ³⁰	45.53 ²⁰
22	25.01 ⁸	14.16 ⁴²	25.29 ⁴³	16.64 ⁴⁰	54.98 ³⁰	45.73 ²³
23	25.09 ⁶	14.58 ⁴⁰	25.72 ³⁶	17.04 ⁴⁰	55.28 ²⁸	45.96 ²³
24	25.15 ⁴	14.98 ⁴⁰	26.08 ³¹	17.44 ³⁸	55.56 ²⁷	46.19 ²³
25	25.19 ⁴	15.38 ³⁸	26.39 ²⁹	17.82 ³⁷	55.83 ²⁶	46.42 ²³
26	25.23 ⁴	15.76 ³⁷	26.68 ²⁹	18.19 ³⁶	56.09 ²⁵	46.65 ²¹
27	25.27 ⁴	16.13 ³⁶	26.97 ³¹	18.55 ³⁶	56.34 ²⁴	46.86 ²⁰
28	25.31 ⁶	16.49 ³⁵	27.28 ³⁵	18.91 ³⁴	56.58 ²⁵	47.06 ¹⁹
29	25.37 ⁸	16.84 ³⁶	27.63 ⁴⁰	19.25 ³⁵	56.83 ²⁷	47.25 ¹⁹
30	25.45 ⁸	17.20 ³⁶	28.03 ⁴³	19.60 ³⁵	57.10 ²⁸	47.44 ¹⁸
Okt. 1	25.53 ⁸	17.56 ³⁹	28.46 ⁴⁵	19.95 ³⁷	57.38 ²⁸	47.62 ²⁰
2	25.61 ⁸	17.95 ⁴⁰	28.91 ⁴⁴	20.32 ³⁸	57.66 ²⁹	47.82 ²¹
3	25.69 ⁷	18.35 ⁴⁰	29.35 ⁴¹	20.70 ⁴⁰	57.95 ²⁹	48.03 ²³
4	25.76 ⁴	18.75 ⁴²	29.76 ³⁵	21.10 ⁴¹	58.24 ²⁹	48.26 ²⁴
5	25.80 ³	19.17 ⁴³	30.11 ²⁷	21.51 ⁴²	58.53 ²⁸	48.50 ²⁷
6	25.83 ²	19.60 ⁴²	30.38 ²⁰	21.93 ⁴²	58.81 ²⁶	48.77 ²⁷
7	25.85 ¹	20.02 ⁴⁰	30.58 ¹³	22.35 ⁴¹	59.07 ²⁴	49.04 ²⁹
8	25.84 ²	20.42 ³⁹	30.71 ⁹	22.76 ³⁹	59.31 ²³	49.33 ²⁸
9	25.82 ²	20.81 ³⁸	30.80 ⁷	23.15 ³⁸	59.54 ²¹	49.61 ²⁸
10	25.80 ²	21.19 ³⁶	30.87 ⁷	23.53 ³⁷	59.76 ²¹	49.89 ²⁶
11	25.78 ¹	21.55 ³⁴	30.94 ⁹	23.90 ³⁵	59.97 ²¹	50.15 ²⁴
12	25.77 ⁰	21.89 ³⁵	31.03 ¹⁴	24.25 ³⁴	60.18 ²²	50.39 ²³
13	25.77 ¹	22.24 ³⁴	31.17 ¹⁹	24.59 ³⁴	60.40 ²²	50.62 ²³
14	25.78 ²	22.58 ³⁶	31.36 ²¹	24.93 ³⁶	60.62 ²³	50.85 ²³
15	25.80 ²	22.94 ³⁷	31.57 ²²	25.29 ³⁷	60.85 ²⁵	51.08 ²⁴
16	25.82 ¹	23.31 ⁴⁰	31.79 ²⁰	25.66 ³⁹	61.10 ²⁵	51.32 ²⁶
17	25.83 ⁰	23.71 ⁴⁰	31.99 ¹⁷	26.05 ⁴¹	61.35 ²⁵	51.58 ²⁷
18	25.83 ²	24.11 ⁴²	32.16 ¹⁰	26.46 ⁴²	61.60 ²⁴	51.85 ³⁰
19	25.81 ³	24.53 ⁴¹	32.26 ³	26.88 ⁴²	61.84 ²⁴	52.15 ³²
20	25.78 ³	24.94	32.29	27.30 ⁴²	62.08 ²⁴	52.47 ³²
O. K.	+ 0°.29 cos φ		+ 1°.04 cos φ		+ 0°.26 cos φ	
U. K.	- 0.29 cos φ		- 1.04 cos φ		- 0.26 cos φ	

Obere Kulmination.

1909	43 Hcv. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 56 ^m	+85° 46'	1 ^h 27 ^m	+88° 49'	4 ^h 8 ^m	+85° 18'
Okt. 20	25.78 6	24.94 41	32.29 4	27.30 43	2.08 22	52.47 33
21	25.72 7	25.35 40	32.25 10	27.73 41	2.30 20	52.80 33
22	25.65 9	25.75 39	32.15 14	28.14 40	2.50 19	53.13 33
23	25.56 8	26.14 36	32.01 15	28.54 38	2.69 18	53.46 32
24	25.48 7	26.50 36	31.86 14	28.92 37	2.87 17	53.78 30
25	25.41 7	26.86 34	31.72 10	29.29 35	3.04 17	54.08 28
26	25.34 6	27.20 34	31.62 6	29.64 36	3.21 18	54.36 28
27	25.28 5	27.54 35	31.56 2	30.00 35	3.39 19	54.64 28
28	25.23 3	27.89 36	31.54 0	30.35 37	3.58 20	54.92 27
29	25.20 4	28.25 37	31.54 0	30.72 38	3.78 21	55.19 29
30	25.16 5	28.62 39	31.54 2	31.10 39	3.99 21	55.48 30
31	25.11 7	29.01 39	31.52 8	31.49 41	4.20 20	55.78 32
Nov. 1	25.04 9	29.40 40	31.44 15	31.90 42	4.40 20	56.10 34
2	24.95 10	29.80 39	31.29 23	32.32 41	4.60 18	56.44 36
3	24.85 12	30.19 39	31.06 29	32.73 40	4.78 17	56.80 36
4	24.73 14	30.58 37	30.77 35	33.13 39	4.95 14	57.16 36
5	24.59 15	30.95 34	30.42 39	33.52 38	5.09 13	57.52 35
6	24.44 14	31.29 32	30.03 39	33.90 35	5.22 12	57.87 34
7	24.30 14	31.61 31	29.64 37	34.25 34	5.34 11	58.21 32
8	24.16 13	31.92 29	29.27 34	34.59 31	5.45 12	58.53 31
9	24.03 12	32.21 30	28.93 30	34.90 32	5.57 12	58.84 30
10	23.91 10	32.51 31	28.63 26	35.22 33	5.69 13	59.14 30
11	23.81 10	32.82 33	28.37 24	35.55 34	5.82 14	59.44 30
12	23.71 10	33.15 33	28.13 25	35.89 35	5.96 14	59.74 31
13	23.61 12	33.48 34	27.88 28	36.24 37	6.10 15	60.05 33
14	23.49 13	33.82 35	27.60 33	36.61 38	6.25 15	60.38 35
15	23.36 15	34.17 36	27.27 40	36.99 39	6.40 13	60.73 37
16	23.21 17	34.53 35	26.87 48	37.38 37	6.53 12	61.10 38
17	23.04 19	34.88 35	26.39 54	37.75 38	6.65 10	61.48 38
18	22.85 20	35.23 33	25.85 59	38.13 36	6.75 8	61.86 39
19	22.65 20	35.56 30	25.26 61	38.49 34	6.83 7	62.25 37
20	22.45 20	35.86 28	24.65 60	38.83 32	6.90 6	62.62 36
21	22.25 20	36.14 27	24.05 57	39.15 30	6.96 6	62.98 34
22	22.05 17	36.41 26	23.48 54	39.45 30	7.02 7	63.32 32
23	21.88 16	36.67 26	22.94 50	39.75 30	7.09 8	63.64 32
24	21.72 15	36.93 28	22.44 46	40.05 30	7.17 8	63.96 32
25	21.57 16	37.21 28	21.98 45	40.35 31	7.25 8	64.28 32
26	21.41	37.49	21.53	40.66	7.33	64.60 32
O. K.	+ 0°.29 cos φ		+ 1°.04 cos φ		+ 0°.26 cos φ	
U. K.	- 0.29 cos φ		- 1.04 cos φ		- 0.26 cos φ	

Obere Kulmination.

1909	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 56 ^m	+85° 46'	1 ^h 26 ^m	+88° 49'	4 ^h 8 ^m	+85° 19'
Nov. 26	21.41 ¹⁷	37.49 ³⁰	81.53 ⁴⁷	40.66 ³²	7.33 ⁹	4.60 ³³
27	21.24 ¹⁷	37.79 ³⁰	81.06 ⁵¹	40.98 ³⁴	7.42 ⁸	4.93 ³⁵
28	21.07 ¹⁹	38.09 ³⁰	80.55 ⁵⁶	41.32 ³⁴	7.50 ⁸	5.28 ³⁶
29	20.88 ²¹	38.39 ³¹	79.99 ⁶⁴	41.66 ³⁴	7.58 ⁷	5.64 ³⁸
30	20.67 ²³	38.70 ²⁹	79.35 ⁷²	42.00 ³³	7.65 ⁵	6.02 ⁴⁰
Dez. 1	20.44 ²⁴	38.99 ²⁷	78.63 ⁷⁷	42.33 ³¹	7.70 ³	6.42 ³⁹
2	20.20 ²⁵	39.26 ²⁵	77.86 ⁸²	42.64 ³⁰	7.73 ⁰	6.81 ³⁸
3	19.95 ²⁶	39.51 ²⁴	77.04 ⁸³	42.94 ²⁸	7.73 ⁰	7.19 ³⁶
4	19.69 ²⁵	39.75 ²¹	76.21 ⁸²	43.22 ²⁵	7.73 ¹	7.55 ³⁵
5	19.44 ²⁴	39.96 ¹⁹	75.39 ⁷⁹	43.47 ²⁴	7.72 ²	7.90 ³³
6	19.20 ²²	40.15 ¹⁹	74.60 ⁷⁵	43.71 ²³	7.70 ¹	8.23 ³²
7	18.98 ²¹	40.34 ¹⁹	73.85 ⁷⁰	43.94 ²³	7.69 ⁰	8.55 ³⁰
8	18.77 ²¹	40.53 ²⁰	73.15 ⁶⁷	44.17 ²³	7.69 ¹	8.85 ³⁰
9	18.56 ²¹	40.73 ²¹	72.48 ⁶⁶	44.40 ²⁵	7.70 ¹	9.15 ³²
10	18.35 ²¹	40.94 ²³	71.82 ⁶⁹	44.65 ²⁷	7.71 ²	9.47 ³³
11	18.14 ²²	41.17 ²²	71.13 ⁷²	44.92 ²⁷	7.73 ²	9.80 ³⁴
12	17.92 ²⁴	41.39 ²³	70.41 ⁷⁹	45.19 ²⁷	7.75 ¹	10.14 ³⁶
13	17.68 ²⁶	41.62 ²³	69.62 ⁸⁶	45.46 ²⁸	7.76 ¹	10.50 ³⁷
14	17.42 ²⁸	41.85 ²²	68.76 ⁹²	45.74 ²⁶	7.75 ³	10.87 ³⁸
15	17.14 ²⁸	42.07 ²⁰	67.84 ⁹⁶	46.00 ²⁵	7.72 ⁴	11.25 ³⁷
16	16.86 ³⁰	42.27 ¹⁸	66.88 ¹⁰⁰	46.25 ²³	7.68 ⁶	11.62 ³⁶
17	16.56 ²⁹	42.45 ¹⁵	65.88 ¹⁰⁰	46.48 ²¹	7.62 ⁷	11.98 ³⁵
18	16.27 ²⁸	42.60 ¹⁵	64.88 ⁹⁷	46.69 ¹⁹	7.55 ⁸	12.33 ³³
19	15.99 ²⁷	42.75 ¹³	63.91 ⁹³	46.88 ¹⁸	7.47 ⁸	12.66 ³¹
20	15.72 ²⁶	42.88 ¹²	62.98 ⁸⁹	47.06 ¹⁷	7.39 ⁶	12.97 ³⁰
21	15.46 ²⁴	43.00 ¹³	62.09 ⁸⁴	47.23 ¹⁸	7.33 ⁶	13.27 ²⁸
22	15.22 ²³	43.13 ¹³	61.25 ⁸¹	47.41 ¹⁷	7.27 ⁵	13.55 ²⁸
23	14.99 ²⁴	43.26 ¹⁴	60.44 ⁸¹	47.58 ¹⁸	7.22 ⁴	13.83 ³⁰
24	14.75 ²⁵	43.40 ¹⁵	59.63 ⁸³	47.76 ²⁰	7.18 ⁵	14.13 ³¹
25	14.50 ²⁶	43.55 ¹⁶	58.80 ⁸⁸	47.96 ²⁰	7.13 ⁵	14.44 ³³
26	14.24 ²⁸	43.71 ¹⁶	57.92 ⁹⁵	48.16 ²¹	7.08 ⁷	14.77 ³⁴
27	13.96 ²⁹	43.87 ¹⁴	56.97 ¹⁰¹	48.37 ²⁰	7.01 ⁸	15.11 ³⁵
28	13.67 ³¹	44.01 ¹²	55.96 ¹⁰⁸	48.57 ¹⁸	6.93 ¹⁰	15.46 ³⁴
29	13.36 ³¹	44.13 ¹¹	54.88 ¹¹²	48.75 ¹⁶	6.83 ¹²	15.80 ³³
30	13.05 ³²	44.24 ⁸	53.76 ¹¹³	48.91 ¹⁴	6.71 ¹⁴	16.13 ³²
31	12.73 ³³	44.32 ⁷	52.63 ¹¹⁴	49.05 ¹¹	6.57 ¹⁴	16.45 ³⁰
32	12.40	44.39	51.49	49.16	6.43	16.75
O. K.	+ 0°.29 cos φ		+ 1°.04 cos φ		+ 0°.26 cos φ	
V. K.	- 0.29 cos φ		- 1.04 cos φ		- 0.26 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 10'
Jan. 0	28.08 ₁₀	36.42 ₂₉	15.41 ₁₃	38.44 ₁₇	8.76 ₆	70.42 ₃₀
1	28.18 ₁₁	36.71 ₂₉	15.54 ₁₂	38.61 ₁₅	8.82 ₅	70.12 ₃₂
2	28.29 ₁₂	37.00 ₂₈	15.66 ₁₂	38.76 ₁₅	8.87 ₄	69.80 ₃₂
3	28.41 ₁₃	37.28 ₃₀	15.78 ₁₃	38.91 ₁₆	8.91 ₄	69.48 ₃₃
4	28.54 ₁₄	37.58 ₃₀	15.91 ₁₄	39.07 ₁₉	8.95 ₆	69.15 ₃₅
5	28.68 ₁₅	37.88 ₃₂	16.05 ₁₄	39.26 ₂₀	9.01 ₆	68.80 ₃₆
6	28.83 ₁₃	38.20 ₃₅	16.19 ₁₄	39.46 ₂₂	9.07 ₇	68.44 ₃₆
7	28.96 ₁₁	38.55 ₃₆	16.33 ₁₄	39.68 ₂₄	9.14 ₈	68.08 ₃₇
8	29.07 ₇	38.91 ₃₇	16.47 ₁₂	39.92 ₂₆	9.22 ₉	67.71 ₃₆
9	29.14 ₅	39.28 ₃₇	16.59 ₁₂	40.18 ₂₇	9.31 ₁₀	67.35 ₃₄
10	29.19 ₂	39.65 ₃₆	16.71 ₁₀	40.45 ₂₇	9.41 ₁₀	67.01 ₃₂
11	29.21 ₁	40.01 ₃₆	16.81 ₁₀	40.72 ₂₈	9.51 ₁₁	66.69 ₃₀
12	29.20 ₃	40.37 ₃₃	16.91 ₁₀	41.00 ₂₆	9.62 ₁₀	66.39 ₂₈
13	29.17 ₃	40.70 ₃₂	17.01 ₉	41.26 ₂₅	9.72 ₁₀	66.11 ₂₇
14	29.14 ₃	41.02 ₃₀	17.10 ₈	41.51 ₂₃	9.82 ₁₀	65.84 ₂₆
15	29.11 ₁	41.32 ₃₀	17.18 ₉	41.74 ₂₂	9.92 ₉	65.58 ₂₇
16	29.10 ₀	41.62 ₂₉	17.27 ₉	41.96 ₂₂	10.01 ₈	65.31 ₂₈
17	29.10 ₂	41.91 ₃₀	17.36 ₁₁	42.18 ₂₃	10.09 ₉	65.03 ₂₉
18	29.12 ₁	42.21 ₃₁	17.47 ₁₀	42.41 ₂₃	10.18 ₉	64.74 ₃₁
19	29.13 ₂	42.52 ₃₂	17.57 ₁₁	42.64 ₂₅	10.27 ₉	64.43 ₃₁
20	29.15 ₀	42.84 ₃₄	17.68 ₁₁	42.89 ₂₇	10.36 ₁₁	64.12 ₃₂
21	29.15 ₁	43.18 ₃₅	17.79 ₉	43.16 ₂₈	10.47 ₁₁	63.80 ₃₁
22	29.14 ₃	43.53 ₃₅	17.88 ₉	43.44 ₃₀	10.58 ₁₃	63.49 ₃₀
23	29.11 ₇	43.88 ₃₆	17.97 ₉	43.74 ₃₁	10.71 ₁₃	63.19 ₂₈
24	29.04 ₁₀	44.24 ₃₅	18.06 ₇	44.05 ₃₂	10.84 ₁₃	62.91 ₂₅
25	28.94 ₁₂	44.59 ₃₃	18.13 ₅	44.37 ₃₀	10.97 ₁₃	62.66 ₂₄
26	28.82 ₁₄	44.92 ₃₁	18.18 ₆	44.67 ₂₈	11.10 ₁₃	62.42 ₂₂
27	28.68 ₁₅	45.23 ₂₉	18.24 ₅	44.95 ₂₇	11.23 ₁₃	62.20 ₂₁
28	28.53 ₁₄	45.52 ₂₈	18.29 ₅	45.22 ₂₆	11.36 ₁₂	61.99 ₂₀
29	28.39 ₁₃	45.80 ₂₇	18.34 ₅	45.48 ₂₆	11.48 ₁₂	61.79 ₂₁
30	28.26 ₁₂	46.07 ₂₇	18.39 ₆	45.74 ₂₅	11.60 ₁₁	61.58 ₂₂
31	28.14 ₁₀	46.34 ₂₈	18.45 ₆	45.99 ₂₇	11.71 ₁₁	61.36 ₂₃
Febr. 1	28.04 ₁₁	46.62 ₂₉	18.51 ₆	46.26 ₂₈	11.82 ₁₃	61.13 ₂₄
2	27.93 ₁₀	46.91 ₃₁	18.57 ₆	46.54 ₃₀	11.95 ₁₃	60.89 ₂₄
3	27.83 ₁₂	47.22 ₃₂	18.63 ₇	46.84 ₃₁	12.08 ₁₅	60.65 ₂₅
4	27.71 ₁₅	47.54 ₃₄	18.70 ₅	47.15 ₃₂	12.23 ₁₅	60.40 ₂₃
5	27.56 ₁₈	47.88 ₃₄	18.75 ₅	47.47 ₃₅	12.38 ₁₆	60.17 ₂₂
6	27.38	48.22	18.80	47.82	12.54	59.95
O. K.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 10'
Febr. 6	27.38 ²¹	48.22 ³³	18.80 ⁴	47.82 ³⁵	12.54 ¹⁶	59.95 ²⁰
7	27.17 ²⁵	48.55 ³²	18.84 ²	48.17 ³⁴	12.70 ¹⁶	59.75 ¹⁷
8	26.92 ²⁵	48.87 ²⁹	18.86 ¹	48.51 ³⁴	12.86 ¹⁷	59.58 ¹⁵
9	26.67 ²⁷	49.16 ²⁸	18.87 ¹	48.85 ³²	13.03 ¹⁶	59.43 ¹³
10	26.40 ²⁷	49.44 ²⁵	18.88 ¹	49.17 ³⁰	13.19 ¹⁵	59.30 ¹²
11	26.13 ²⁶	49.69 ²⁴	18.89 ⁰	49.47 ²⁸	13.34 ¹⁴	59.18 ¹²
12	25.87 ²³	49.93 ²³	18.89 ¹	49.75 ²⁸	13.48 ¹⁴	59.06 ¹³
13	25.64 ²²	50.16 ²⁴	18.90 ¹	50.03 ²⁷	13.62 ¹⁴	58.93 ¹⁵
14	25.42 ²¹	50.40 ²⁴	18.91 ²	50.30 ²⁸	13.76 ¹³	58.78 ¹⁵
15	25.21 ²¹	50.64 ²⁵	18.93 ³	50.58 ²⁹	13.89 ¹⁵	58.63 ¹⁵
16	25.00 ²¹	50.89 ²⁵	18.96 ²	50.87 ³⁰	14.04 ¹⁵	58.48 ¹⁷
17	24.79 ²²	51.14 ²⁸	18.98 ²	51.17 ³³	14.19 ¹⁶	58.31 ¹⁷
18	24.57 ²⁴	51.42 ²⁷	19.00 ¹	51.50 ³⁴	14.35 ¹⁶	58.14 ¹⁵
19	24.33 ²⁸	51.69 ²⁸	19.01 ⁰	51.84 ³⁴	14.51 ¹⁷	57.99 ¹³
20	24.05 ³⁰	51.97 ²⁷	19.01 ¹	52.18 ³⁴	14.68 ¹⁷	57.86 ¹¹
21	23.75 ³³	52.24 ²⁵	19.00 ²	52.52 ³⁴	14.85 ¹⁸	57.75 ⁸
22	23.42 ³⁵	52.49 ²³	18.98 ³	52.86 ³¹	15.03 ¹⁷	57.67 ⁶
23	23.07 ³⁵	52.72 ²¹	18.95 ³	53.17 ³¹	15.20 ¹⁶	57.61 ⁵
24	22.72 ³⁴	52.93 ¹⁹	18.92 ⁴	53.48 ²⁹	15.36 ¹⁵	57.56 ⁴
25	22.38 ³⁴	53.12 ¹⁹	18.88 ³	53.77 ²⁷	15.51 ¹⁵	57.52 ³
26	22.04 ³²	53.31 ¹⁷	18.85 ²	54.04 ²⁶	15.66 ¹⁵	57.49 ⁴
27	21.72 ³⁰	53.48 ¹⁶	18.83 ³	54.30 ²⁷	15.81 ¹⁵	57.45 ⁶
28	21.42 ³⁰	53.64 ¹⁸	18.80 ²	54.57 ²⁷	15.96 ¹⁴	57.39 ⁷
März 1	21.12 ²⁹	53.82 ¹⁹	18.78 ¹	54.84 ²⁹	16.10 ¹⁵	57.32 ⁷
2	20.83 ³⁰	54.01 ²¹	18.77 ³	55.13 ³¹	16.25 ¹⁶	57.25 ⁶
3	20.53 ³²	54.22 ²¹	18.74 ²	55.44 ³²	16.41 ¹⁸	57.19 ⁷
4	20.21 ³⁵	54.43 ²²	18.72 ³	55.76 ³³	16.59 ¹⁷	57.12 ⁶
5	19.86 ³⁸	54.65 ²¹	18.69 ⁵	56.09 ³³	16.76 ¹⁸	57.06 ³
6	19.48 ⁴⁰	54.86 ²¹	18.64 ⁶	56.42 ³³	16.94 ¹⁸	57.03 ¹
7	19.08 ⁴²	55.07 ¹⁸	18.58 ⁶	56.75 ³¹	17.12 ¹⁸	57.02 ¹
8	18.66 ⁴³	55.25 ¹⁶	18.52 ⁷	57.06 ²⁹	17.30 ¹⁸	57.03 ³
9	18.23 ⁴²	55.41 ¹⁴	18.45 ⁸	57.35 ²⁸	17.48 ¹⁷	57.06 ⁵
10	17.81 ⁴²	55.55 ¹¹	18.37 ⁷	57.63 ²⁶	17.65 ¹⁶	57.11 ⁶
11	17.39 ³⁹	55.66 ¹¹	18.30 ⁷	57.89 ²⁵	17.81 ¹⁵	57.17 ⁵
12	17.00 ³⁸	55.77 ⁹	18.23 ⁸	58.14 ²³	17.96 ¹⁵	57.22 ⁴
13	16.62 ³⁶	55.86 ¹⁰	18.15 ⁶	58.37 ²³	18.11 ¹⁴	57.26 ⁴
14	16.26 ³⁵	55.96 ¹¹	18.09 ⁶	58.60 ²⁴	18.25 ¹⁴	57.30 ³
15	15.91	56.07	18.03	58.84	18.39	57.33

O. K.
P. K.

+ 0°.44 cos φ
- 0.44 cos φ

+ 0°.15 cos φ
- 0.15 cos φ

+ 0°.16 cos φ
- 0.16 cos φ

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 10'
März 15	15.91	56.07	18.03	58.84	18.39	57.33
16	15.56 ³⁵	56.19 ¹²	17.98 ⁵	59.10 ²⁶	18.54 ¹⁵	57.35 ²
17	15.22 ³⁴	56.32 ¹³	17.93 ⁵	59.37 ²⁷	18.70 ¹⁶	57.36 ¹
18	14.86 ³⁶	56.46 ¹⁴	17.86 ⁷	59.65 ²⁸	18.86 ¹⁶	57.39 ³
19	14.47 ³⁹	56.59 ¹³	17.79 ⁷	59.93 ²⁸	19.03 ¹⁷	57.43 ⁴
20	14.06 ⁴¹	56.72 ¹³	17.72 ⁷	60.21 ²⁸	19.20 ¹⁷	57.49 ⁶
21	13.63 ⁴³	56.83 ¹¹	17.63 ⁹	60.49 ²⁸	19.37 ¹⁷	57.58 ⁹
22	13.18 ⁴⁵	56.92 ⁹	17.53 ¹⁰	60.75 ²⁶	19.54 ¹⁷	57.69 ¹¹
23	12.72 ⁴⁶	56.99 ⁷	17.43 ¹⁰	60.99 ²⁴	19.69 ¹⁵	57.82 ¹³
24	12.28 ⁴⁴	57.04 ⁵	17.32 ¹¹	61.22 ²³	19.84 ¹⁵	57.82 ¹⁴
25	11.84 ⁴⁴	57.06 ²	17.22 ¹⁰	61.42 ²⁰	19.98 ¹⁴	57.96 ¹⁴
26	11.42 ⁴²	57.08 ²	17.12 ¹⁰	61.61 ¹⁹	20.12 ¹⁴	58.10 ¹³
27	11.02 ⁴⁰	57.09 ¹	17.02 ¹⁰	61.79 ¹⁸	20.26 ¹⁴	58.23 ¹³
28	10.64 ³⁸	57.09 ²	16.93 ⁹	61.98 ¹⁹	20.39 ¹³	58.36 ¹²
29	10.27 ³⁷	57.11 ³	16.84 ⁹	62.17 ¹⁹	20.53 ¹⁴	58.48 ¹¹
30	9.90 ³⁷	57.14 ⁴	16.76 ⁸	62.38 ²¹	20.67 ¹⁴	58.59 ⁹
31	9.52 ³⁸	57.18 ⁶	16.67 ⁹	62.61 ²³	20.81 ¹⁴	58.68 ¹⁰
April 1	9.11 ⁴¹	57.24 ⁶	16.59 ⁸	62.84 ²³	20.96 ¹⁵	58.78 ¹²
2	8.69 ⁴²	57.30 ⁵	16.49 ¹⁰	63.08 ²⁴	21.12 ¹⁶	58.90 ¹³
3	8.24 ⁴⁵	57.35 ⁵	16.38 ¹¹	63.31 ²³	21.28 ¹⁶	59.03 ¹⁵
4	7.78 ⁴⁶	57.40 ²	16.25 ¹³	63.54 ²³	21.43 ¹⁵	59.18 ¹⁷
5	7.31 ⁴⁷	57.42 ¹	16.13 ¹²	63.74 ²⁰	21.58 ¹⁵	59.35 ¹⁹
6	6.84 ⁴⁷	57.43 ²	16.00 ¹³	63.92 ¹⁸	21.72 ¹⁴	59.54 ²¹
7	6.37 ⁴⁷	57.41 ⁴	15.87 ¹³	64.08 ¹⁶	21.85 ¹³	59.75 ²²
8	5.94 ⁴³	57.37 ⁶	15.74 ¹³	64.23 ¹⁵	21.85 ¹²	59.97 ²³
9	5.53 ⁴¹	57.31 ⁶	15.61 ¹³	64.35 ¹²	21.97 ¹¹	60.20 ²¹
10	5.14 ³⁹	57.25 ⁷	15.50 ¹¹	64.47 ¹²	22.08 ¹⁰	60.41 ¹⁹
11	4.78 ³⁶	57.18 ⁶	15.39 ¹¹	64.59 ¹²	22.18 ¹¹	60.60 ¹⁹
12	4.42 ³⁶	57.12 ⁵	15.28 ¹¹	64.73 ¹⁴	22.29 ¹¹	60.79 ¹⁷
13	4.06 ³⁶	57.07 ⁴	15.18 ¹⁰	64.87 ¹⁴	22.40 ¹¹	60.96 ¹⁷
14	3.70 ³⁶	57.03 ³	15.18 ¹⁰	64.87 ¹⁵	22.51 ¹²	61.13 ¹⁷
15	3.33 ³⁷	57.00 ³	15.08 ¹¹	65.02 ¹⁷	22.63 ¹³	61.30 ¹⁸
16	2.93 ⁴⁰	56.97 ³	14.97 ¹¹	65.19 ¹⁶	22.76 ¹²	61.48 ²⁰
17	2.51 ⁴²	56.94 ⁴	14.86 ¹³	65.35 ¹⁵	22.88 ¹³	61.68 ²³
18	2.08 ⁴³	56.90 ⁴	14.73 ¹⁴	65.50 ¹⁴	23.01 ¹²	61.91 ²⁴
19	1.65 ⁴³	56.83 ⁷	14.59 ¹⁴	65.64 ¹¹	23.13 ¹²	62.15 ²⁶
20	1.22 ⁴³	56.74 ¹¹	14.45 ¹⁴	65.75 ¹⁰	23.25 ¹¹	62.41 ²⁸
21	0.81 ⁴¹	56.63 ¹³	14.31 ¹⁵	65.85 ¹⁰	23.36 ⁹	62.69 ²⁷
	0.81	56.50	14.16	65.92	23.45	62.96
O. K.	+ 0°.44	cos φ	+ 0°.15	cos φ	+ 0°.16	cos φ
U. K.	- 0.44	cos φ	- 0.15	cos φ	- 0.16	cos φ

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 57 ^m	+87° 11'	9 ^h 24 ^m	+81° 44'	16 ^h 55 ^m	+82° 11'
April 21	60.81 ³⁹	56.50 ¹⁴	14.16 ¹³	5.92 ⁶	23.45 ⁹	2.96 ²⁸
22	60.42 ³⁷	56.36 ¹⁴	14.03 ¹³	5.98 ⁵	23.54 ⁷	3.24 ²⁷
23	60.05 ³⁴	56.21 ¹⁴	13.90 ¹³	6.03 ⁴	23.61 ⁹	3.51 ²⁵
24	59.71 ³³	56.07 ¹⁴	13.77 ¹¹	6.07 ⁵	23.70 ⁷	3.76 ²⁴
25	59.38 ³²	55.93 ¹²	13.66 ¹²	6.12 ⁶	23.77 ⁸	4.00 ²³
26	59.06 ³²	55.81 ¹¹	13.54 ¹¹	6.18 ⁷	23.85 ⁹	4.23 ²³
27	58.74 ³³	55.70 ¹⁰	13.43 ¹²	6.25 ⁸	23.94 ¹⁰	4.46 ²³
28	58.41 ³⁵	55.60 ¹⁰	13.31 ¹³	6.33 ⁹	24.04 ¹⁰	4.69 ²⁴
29	58.06 ³⁷	55.50 ¹¹	13.18 ¹³	6.42 ¹⁰	24.14 ¹⁰	4.93 ²⁶
30	57.69 ³⁸	55.39 ¹²	13.05 ¹⁴	6.52 ⁷	24.24 ¹⁰	5.19 ²⁹
Mai 1	57.31 ³⁹	55.27 ¹⁴	12.91 ¹⁴	6.59 ⁶	24.34 ⁸	5.48 ³⁰
2	56.92 ⁴⁰	55.13 ¹⁶	12.77 ¹⁵	6.65 ⁴	24.42 ⁸	5.78 ³²
3	56.52 ³⁸	54.97 ¹⁸	12.62 ¹⁵	6.69 ³	24.50 ⁸	6.10 ³²
4	56.14 ³⁶	54.79 ²⁰	12.47 ¹⁵	6.72 ⁰	24.58 ⁶	6.42 ³³
5	55.78 ³³	54.59 ²²	12.32 ¹⁴	6.72 ³	24.64 ⁶	6.75 ³¹
6	55.45 ³⁰	54.37 ²²	12.18 ¹³	6.69 ³	24.70 ⁴	7.06 ³⁰
7	55.15 ²⁷	54.15 ²⁰	12.05 ¹²	6.66 ³	24.74 ⁴	7.36 ²⁹
8	54.88 ²⁵	53.95 ²⁰	11.93 ¹¹	6.63 ²	24.78 ⁵	7.65 ²⁷
9	54.63 ²⁵	53.75 ¹⁹	11.82 ¹²	6.61 ²	24.83 ⁴	7.92 ²⁷
10	54.38 ²⁴	53.56 ¹⁸	11.70 ¹¹	6.59 ⁰	24.87 ⁵	8.19 ²⁶
11	54.14 ²⁶	53.38 ¹⁶	11.59 ¹¹	6.59 ¹	24.92 ⁶	8.45 ²⁷
12	53.88 ²⁷	53.22 ¹⁷	11.48 ¹³	6.60 ⁰	24.98 ⁶	8.72 ²⁷
13	53.61 ²⁹	53.05 ¹⁷	11.35 ¹²	6.60 ⁰	25.04 ⁵	8.99 ²⁹
14	53.32 ³⁰	52.88 ¹⁹	11.23 ¹⁴	6.60 ¹	25.09 ⁶	9.28 ³¹
15	53.02 ³¹	52.69 ²²	11.09 ¹³	6.59 ³	25.15 ⁵	9.59 ³⁴
16	52.71 ³¹	52.47 ²³	10.96 ¹⁴	6.56 ⁵	25.20 ³	9.93 ³⁴
17	52.40 ²⁸	52.24 ²⁵	10.82 ¹⁴	6.51 ⁸	25.23 ³	10.27 ³⁵
18	52.12 ²⁶	51.99 ²⁷	10.68 ¹⁴	6.43 ⁹	25.26 ¹	10.62 ³³
19	51.86 ²⁴	51.72 ²⁷	10.54 ¹³	6.34 ¹¹	25.27 ¹	10.95 ³³
20	51.62 ²¹	51.45 ²⁶	10.41 ¹²	6.23 ¹¹	25.28 ⁰	11.28 ³²
21	51.41 ¹⁹	51.19 ²⁶	10.29 ¹²	6.12 ¹¹	25.28 ¹	11.60 ³⁰
22	51.22 ¹⁷	50.93 ²⁵	10.17 ¹⁰	6.01 ⁹	25.29 ¹	11.90 ²⁸
23	51.05 ¹⁶	50.68 ²³	10.07 ¹¹	5.92 ⁹	25.30 ¹	12.18 ²⁸
24	50.89 ¹⁷	50.45 ²²	9.96 ¹⁰	5.83 ⁷	25.31 ²	12.46 ²⁷
25	50.72 ¹⁸	50.23 ²²	9.86 ¹¹	5.76 ⁶	25.33 ²	12.73 ²⁸
26	50.54 ²⁰	50.01 ²¹	9.75 ¹²	5.70 ⁷	25.35 ³	13.01 ³⁰
27	50.34 ²³	49.80 ²³	9.63 ¹²	5.63 ⁷	25.38 ²	13.31 ³¹
28	50.11	49.57	9.51	5.56	25.40	13.62
O. K.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0.44 cos φ		- 0.15 cos φ		- 0.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 57 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Mai 28	50.11 ²²	49.57 ²⁴	9.51 ¹³	65.56 ⁹	25.40 ²	13.62 ³⁴
29	49.89 ²²	49.33 ²⁶	9.38 ¹²	65.47 ¹⁰	25.42 ¹	13.96 ³⁵
30	49.67 ²²	49.07 ²⁸	9.26 ¹³	65.37 ¹³	25.43 ⁰	14.31 ³⁵
Juni 31	49.45 ²⁰	48.79 ³⁰	9.13 ¹³	65.24 ¹⁴	25.43 ²	14.66 ³⁶
1	49.25 ¹⁷	48.49 ³⁰	9.00 ¹²	65.10 ¹⁷	25.41 ²	15.02 ³⁴
2	49.08 ¹⁴	48.19 ³²	8.88 ¹²	64.93 ¹⁸	25.39 ²	15.36 ³⁴
3	48.94 ¹⁰	47.87 ³¹	8.76 ¹⁰	64.75 ¹⁸	25.37 ⁴	15.70 ³¹
4	48.84 ⁸	47.56 ²⁹	8.66 ⁹	64.57 ¹⁸	25.33 ³	16.01 ²⁹
5	48.76 ⁷	47.27 ²⁸	8.57 ⁹	64.39 ¹⁷	25.30 ⁴	16.30 ²⁸
6	48.69 ⁶	46.99 ²⁷	8.48 ⁹	64.22 ¹⁶	25.26 ²	16.58 ²⁷
7	48.63 ⁶	46.72 ²⁶	8.39 ⁸	64.06 ¹⁴	25.24 ³	16.85 ²⁷
8	48.57 ⁸	46.46 ²⁵	8.31 ⁹	63.92 ¹⁴	25.21 ²	17.12 ²⁸
9	48.49 ¹⁰	46.21 ²⁶	8.22 ⁹	63.78 ¹⁴	25.19 ¹	17.40 ³⁰
10	48.39 ¹¹	45.95 ²⁶	8.13 ¹⁰	63.64 ¹⁵	25.18 ³	17.70 ³¹
11	48.28 ¹²	45.69 ²⁸	8.03 ¹¹	63.49 ¹⁷	25.15 ³	18.01 ³²
12	48.16 ¹⁰	45.41 ³⁰	7.92 ¹¹	63.32 ¹⁹	25.12 ³	18.33 ³³
13	48.06 ¹⁰	45.11 ³²	7.81 ¹¹	63.13 ²⁰	25.09 ⁴	18.66 ³³
14	47.96 ⁸	44.79 ³³	7.70 ¹⁰	62.93 ²²	25.05 ⁶	18.99 ³⁴
15	47.88 ⁴	44.46 ³⁴	7.60 ¹⁰	62.71 ²⁴	24.99 ⁶	19.33 ³³
16	47.84 ³	44.12 ³⁴	7.50 ⁹	62.47 ²⁵	24.93 ⁷	19.66 ³¹
17	47.81 ¹	43.78 ³³	7.41 ⁷	62.22 ²⁵	24.86 ⁷	19.97 ²⁸
18	47.82 ²	43.45 ³¹	7.34 ⁷	61.97 ²³	24.79 ⁷	20.25 ²⁷
19	47.84 ⁴	43.14 ²⁹	7.27 ⁶	61.74 ²²	24.72 ⁷	20.52 ²⁶
20	47.88 ³	42.85 ²⁸	7.21 ⁷	61.52 ²¹	24.65 ⁶	20.78 ²⁵
21	47.91 ³	42.57 ²⁷	7.14 ⁷	61.31 ²⁰	24.59 ⁶	21.03 ²⁵
22	47.94 ²	42.30 ²⁷	7.07 ⁷	61.11 ¹⁸	24.53 ⁵	21.28 ²⁶
23	47.96 ¹	42.03 ²⁷	7.00 ⁷	60.93 ¹⁹	24.48 ⁵	21.54 ²⁷
24	47.95 ²	41.76 ²⁸	6.93 ⁸	60.74 ²⁰	24.43 ⁵	21.81 ²⁹
25	47.93 ³	41.48 ²⁹	6.85 ⁹	60.54 ²²	24.38 ⁵	22.10 ³¹
26	47.90 ¹	41.19 ³²	6.76 ⁸	60.32 ²³	24.33 ⁷	22.41 ³¹
27	47.89 ⁰	40.87 ³³	6.68 ⁹	60.09 ²⁶	24.26 ⁸	22.72 ³¹
28	47.89 ³	40.54 ³⁴	6.59 ⁸	59.83 ²⁷	24.18 ⁹	23.03 ³⁰
29	47.92 ⁶	40.20 ³⁵	6.51 ⁷	59.56 ²⁹	24.09 ¹⁰	23.33 ²⁹
Juli 30	47.98 ⁹	39.85 ³⁴	6.44 ⁶	59.27 ³⁰	23.99 ¹⁰	23.62 ²⁷
1	48.07 ¹²	39.51 ³³	6.38 ⁵	58.97 ²⁹	23.89 ¹⁰	23.89 ²⁵
2	48.19 ¹³	39.18 ³¹	6.33 ⁴	58.68 ²⁹	23.79 ¹²	24.14 ²⁴
3	48.32 ¹⁴	38.87 ³⁰	6.29 ³	58.39 ²⁷	23.67 ¹⁰	24.38 ²¹
4	48.46	38.57	6.26	58.12	23.57	24.59
O. K.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 57 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Juli 4	48.46 ¹⁵	38.57 ²⁹	6.26 ³	58.12 ²⁶	23.57 ¹⁰	24.59 ²¹
5	48.61 ¹⁴	38.28 ²⁷	6.23 ⁴	57.86 ²⁶	23.47 ⁹	24.80 ²¹
6	48.75 ¹²	38.01 ²⁸	6.19 ⁴	57.60 ²⁴	23.38 ⁹	25.01 ²³
7	48.87 ¹⁰	37.73 ²⁸	6.15 ⁵	57.36 ²⁵	23.29 ⁸	25.24 ²³
8	48.97 ¹⁰	37.45 ²⁸	6.10 ⁵	57.11 ²⁶	23.21 ¹⁰	25.47 ²⁵
9	49.07 ⁹	37.17 ³⁰	6.05 ⁵	56.85 ²⁸	23.11 ¹⁰	25.72 ²⁶
10	49.16 ¹⁰	36.87 ³²	6.00 ⁵	56.57 ³⁰	23.01 ¹¹	25.98 ²⁷
11	49.26 ¹²	36.55 ³⁴	5.95 ⁶	56.27 ³¹	22.90 ¹¹	26.25 ²⁷
12	49.38 ¹⁴	36.21 ³⁵	5.89 ⁵	55.96 ³³	22.79 ¹³	26.52 ²⁶
13	49.52 ¹⁸	35.86 ³⁴	5.84 ³	55.63 ³³	22.66 ¹³	26.78 ²⁴
14	49.70 ²¹	35.52 ³⁴	5.81 ³	55.30 ³³	22.53 ¹⁴	27.02 ²²
15	49.91 ²²	35.18 ³²	5.78 ²	54.97 ³³	22.39 ¹⁴	27.24 ¹⁹
16	50.13 ²⁴	34.86 ³⁰	5.76 ¹	54.64 ³¹	22.25 ¹³	27.43 ¹⁸
17	50.37 ²⁵	34.56 ²⁸	5.75 ⁰	54.33 ³⁰	22.12 ¹²	27.61 ¹⁸
18	50.62 ²³	34.28 ²⁷	5.75 ¹	54.03 ²⁸	22.00 ¹²	27.79 ¹⁶
19	50.85 ²²	34.01 ²⁶	5.74 ¹	53.75 ²⁸	21.88 ¹²	27.95 ¹⁶
20	51.07 ²⁰	33.75 ²⁵	5.73 ²	53.47 ²⁷	21.76 ¹¹	28.11 ¹⁷
21	51.27 ¹⁹	33.50 ²⁶	5.71 ¹	53.20 ²⁷	21.65 ¹¹	28.28 ²⁰
22	51.46 ¹⁸	33.24 ²⁷	5.70 ³	52.93 ²⁹	21.54 ¹²	28.48 ²¹
23	51.64 ¹⁸	32.97 ²⁹	5.67 ³	52.64 ³⁰	21.42 ¹²	28.69 ²¹
24	51.82 ¹⁹	32.68 ³¹	5.64 ³	52.34 ³²	21.30 ¹³	28.90 ²²
25	52.01 ²¹	32.37 ³²	5.61 ¹	52.02 ³⁴	21.17 ¹⁵	29.12 ²¹
26	52.22 ²⁴	32.05 ³¹	5.60 ¹	51.68 ³⁵	21.02 ¹⁵	29.33 ²⁰
27	52.46 ²⁷	31.74 ³²	5.59 ¹	51.33 ³⁷	20.87 ¹⁶	29.53 ¹⁸
28	52.73 ³⁰	31.42 ³¹	5.58 ¹	50.96 ³⁶	20.71 ¹⁵	29.71 ¹⁶
29	53.03 ³²	31.11 ²⁹	5.59 ¹	50.60 ³⁵	20.56 ¹⁶	29.87 ¹⁴
30	53.35 ³⁴	30.82 ²⁸	5.60 ³	50.25 ³⁴	20.40 ¹⁶	30.01 ¹²
31	53.69 ³³	30.54 ²⁶	5.63 ³	49.91 ³²	20.24 ¹⁵	30.13 ¹⁰
Aug. 1	54.03 ³⁴	30.28 ²⁴	5.66 ²	49.59 ³¹	20.09 ¹⁴	30.23 ¹¹
2	54.36 ³²	30.04 ²³	5.68 ²	49.28 ²⁹	19.95 ¹⁴	30.34 ¹¹
3	54.68 ³⁰	29.81 ²⁴	5.70 ²	48.99 ³⁰	19.81 ¹⁴	30.45 ¹³
4	54.98 ²⁸	29.57 ²⁴	5.72 ¹	48.69 ³⁰	19.67 ¹³	30.58 ¹³
5	55.26 ²⁸	29.33 ²⁶	5.73 ¹	48.39 ³²	19.54 ¹⁵	30.71 ¹⁴
6	55.54 ²⁹	29.07 ²⁷	5.74 ⁰	48.07 ³³	19.39 ¹⁶	30.85 ¹⁵
7	55.83 ²⁹	28.80 ²⁸	5.74 ¹	47.74 ³⁶	19.23 ¹⁶	31.00 ¹⁶
8	56.12 ³²	28.52 ³⁰	5.75 ²	47.38 ³⁷	19.07 ¹⁷	31.16 ¹⁵
9	56.44 ³⁴	28.22 ²⁹	5.77	47.01	18.90	31.31
0. K.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 57 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Aug. 9	56.78	27.93	5.77	47.01	18.90	31.31
10	57.15	27.64	5.79	46.63	18.72	31.43
11	57.54	27.37	5.82	46.25	18.54	31.54
12	57.94	27.11	5.87	45.88	18.36	31.63
13	58.35	26.88	5.92	45.52	18.19	31.70
14	58.76	26.67	5.97	45.18	18.02	31.75
15	59.16	26.47	6.03	44.85	17.85	31.79
16	59.54	26.27	6.08	44.54	17.70	31.84
17	59.90	26.07	6.12	44.25	17.55	31.89
18	60.24	25.87	6.17	43.95	17.40	31.95
19	60.58	25.66	6.21	43.64	17.25	32.03
20	60.93	25.43	6.24	43.32	17.10	32.11
21	61.29	25.18	6.27	42.99	16.93	32.21
22	61.68	24.93	6.31	42.64	16.75	32.30
23	62.10	24.68	6.36	42.27	16.57	32.38
24	62.54	24.44	6.41	41.90	16.39	32.44
25	63.00	24.22	6.48	41.52	16.20	32.47
26	63.49	24.02	6.55	41.15	16.01	32.49
27	63.97	23.83	6.63	40.81	15.82	32.49
28	64.45	23.66	6.72	40.47	15.64	32.47
29	64.91	23.50	6.81	40.15	15.47	32.44
30	65.36	23.35	6.89	39.83	15.30	32.42
31	65.79	23.20	6.97	39.53	15.14	32.41
Sept. 1	66.20	23.03	7.04	39.23	14.97	32.41
2	66.62	22.85	7.11	38.92	14.80	32.41
3	67.04	22.66	7.17	38.60	14.63	32.43
4	67.48	22.46	7.25	38.26	14.45	32.45
5	67.94	22.25	7.32	37.90	14.26	32.46
6	68.43	22.05	7.40	37.54	14.07	32.47
7	68.94	21.86	7.49	37.18	13.87	32.46
8	69.46	21.69	7.58	36.81	13.67	32.43
9	69.99	21.55	7.68	36.46	13.48	32.37
10	70.53	21.42	7.79	36.13	13.29	32.28
11	71.05	21.31	7.91	35.82	13.12	32.18
12	71.54	21.21	8.02	35.52	12.95	32.09
13	72.02	21.12	8.13	35.24	12.78	32.00
14	72.48	21.02	8.23	34.97	12.62	31.92
			8.33	34.70		
O. K.	+ 0°.43 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0.43 cos φ		- 0.15 cos φ		- 0.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Sept. 14	12.48 ⁴⁵	21.02 ¹¹	8.33 ¹⁰	34.70 ²⁸	12.62 ¹⁶	31.92 ⁶
15	12.93 ⁴⁴	20.91 ¹³	8.43 ⁹	34.42 ³⁰	12.46 ¹⁶	31.86 ⁶
16	13.37 ⁴⁶	20.78 ¹³	8.52 ⁹	34.12 ³²	12.30 ¹⁷	31.80 ⁴
17	13.83 ⁴⁸	20.65 ¹⁴	8.61 ¹⁰	33.80 ³³	12.13 ¹⁷	31.76 ⁵
18	14.31 ⁵⁰	20.51 ¹⁴	8.71 ¹¹	33.47 ³³	11.96 ¹⁹	31.71 ⁵
19	14.81 ⁵²	20.37 ¹⁴	8.82 ¹¹	33.14 ³⁴	11.77 ¹⁹	31.66 ⁸
20	15.33 ⁵⁵	20.23 ¹²	8.93 ¹²	32.80 ³³	11.58 ¹⁹	31.58 ⁹
21	15.88 ⁵⁷	20.11 ¹⁰	9.05 ¹⁴	32.47 ³²	11.39 ²⁰	31.49 ¹¹
22	16.45 ⁵⁷	20.01 ⁹	9.19 ¹³	32.15 ²⁹	11.19 ¹⁹	31.38 ¹⁴
23	17.02 ⁵⁶	19.92 ⁶	9.32 ¹⁴	31.86 ²⁸	11.00 ¹⁹	31.24 ¹⁵
24	17.58 ⁵⁵	19.86 ⁵	9.46 ¹⁵	31.58 ²⁷	10.81 ¹⁷	31.09 ¹⁶
25	18.13 ⁵⁴	19.81 ⁴	9.61 ¹³	31.31 ²⁶	10.64 ¹⁶	30.93 ¹⁷
26	18.67 ⁵¹	19.77 ⁴	9.74 ¹³	31.05 ²⁴	10.48 ¹⁶	30.76 ¹⁶
27	19.18 ⁵⁰	19.73 ⁵	9.87 ¹³	30.81 ²⁶	10.32 ¹⁶	30.60 ¹⁵
28	19.68 ⁴⁹	19.68 ⁶	10.00 ¹²	30.55 ²⁶	10.16 ¹⁶	30.45 ¹³
29	20.17 ⁴⁸	19.62 ⁷	10.12 ¹²	30.29 ²⁸	10.00 ¹⁶	30.32 ¹²
30	20.65 ⁵⁰	19.55 ⁸	10.24 ¹²	30.01 ²⁹	9.84 ¹⁷	30.20 ¹²
Okt. 1	21.15 ⁵¹	19.47 ⁹	10.36 ¹³	29.72 ³¹	9.67 ¹⁷	30.08 ¹¹
2	21.66 ⁵⁴	19.38 ⁹	10.49 ¹⁴	29.41 ³⁰	9.50 ¹⁸	29.97 ¹³
3	22.20 ⁵⁶	19.29 ⁷	10.63 ¹⁴	29.11 ²⁹	9.32 ¹⁹	29.84 ¹⁵
4	22.76 ⁵⁷	19.22 ⁵	10.77 ¹⁵	28.82 ²⁹	9.13 ¹⁹	29.69 ¹⁶
5	23.33 ⁵⁹	19.17 ⁴	10.92 ¹⁶	28.53 ²⁷	8.94 ¹⁸	29.53 ¹⁹
6	23.92 ⁵⁸	19.13 ¹	11.08 ¹⁵	28.26 ²⁵	8.76 ¹⁷	29.34 ²¹
7	24.50 ⁵⁸	19.12 ¹	11.23 ¹⁷	28.01 ²³	8.59 ¹⁶	29.13 ²³
8	25.08 ⁵⁵	19.13 ²	11.40 ¹⁶	27.78 ²¹	8.43 ¹⁶	28.90 ²³
9	25.63 ⁵³	19.15 ³	11.56 ¹⁵	27.57 ²⁰	8.27 ¹⁴	28.67 ²³
10	26.16 ⁵¹	19.18 ³	11.71 ¹⁵	27.37 ¹⁹	8.13 ¹⁴	28.44 ²²
11	26.67 ⁴⁹	19.21 ²	11.86 ¹³	27.18 ²⁰	7.99 ¹⁴	28.22 ²⁰
12	27.16 ⁴⁸	19.23 ¹	11.99 ¹⁴	26.98 ²²	7.85 ¹⁵	28.02 ¹⁹
13	27.64 ⁴⁸	19.24 ¹	12.13 ¹⁴	26.76 ²²	7.70 ¹⁴	27.83 ¹⁹
14	28.12 ⁵⁰	19.23 ¹	12.27 ¹⁴	26.54 ²⁴	7.56 ¹⁴	27.64 ¹⁸
15	28.62 ⁵¹	19.22 ¹	12.41 ¹⁵	26.30 ²⁵	7.42 ¹⁶	27.46 ¹⁸
16	29.13 ⁵⁴	19.21 ¹	12.56 ¹⁵	26.05 ²⁴	7.26 ¹⁶	27.28 ¹⁹
17	29.67 ⁵⁵	19.20 ⁰	12.71 ¹⁷	25.81 ²⁵	7.10 ¹⁶	27.09 ²¹
18	30.22 ⁵⁸	19.20 ¹	12.88 ¹⁷	25.56 ²³	6.94 ¹⁷	26.88 ²³
19	30.80 ⁵⁹	19.21 ⁴	13.05 ¹⁸	25.33 ²¹	6.77 ¹⁶	26.65 ²⁶
20	31.39 ⁵⁸	19.25 ⁶	13.23 ¹⁸	25.12 ²⁰	6.61 ¹⁵	26.39 ²⁷
21	31.97	19.31	13.41	24.92	6.46	26.12
U. K.	+ 0°.43 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.43 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	5 I. Rev. Cephei. 5 ^m .2.		I. Rev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Okt. 21	31.97 ¹ ₅₆	19.31 ¹ ₈	13.41 ¹ ₁₈	24.92 ¹ ₁₇	6.46 ¹ ₁₅	26.12 ¹ ₂₅
22	32.53 ² ₅₅	19.39 ² ₉	13.59 ² ₁₇	24.75 ² ₁₆	6.31 ² ₁₃	25.84 ² ₂₉
23	33.08 ³ ₅₂	19.48 ³ ₁₀	13.76 ³ ₁₇	24.59 ³ ₁₅	6.18 ³ ₁₃	25.55 ³ ₂₉
24	33.60 ⁴ ₅₀	19.58 ⁴ ₉	13.93 ⁴ ₁₇	24.44 ⁴ ₁₅	6.05 ⁴ ₁₃	25.26 ⁴ ₂₇
25	34.10 ⁵ ₄₈	19.67 ⁵ ₈	14.10 ⁵ ₁₆	24.29 ⁵ ₁₆	5.92 ⁵ ₁₂	24.99 ⁵ ₂₆
26	34.58 ⁶ ₄₈	19.75 ⁶ ₆	14.26 ⁶ ₁₅	24.13 ⁶ ₁₇	5.80 ⁶ ₁₂	24.73 ⁶ ₂₄
27	35.06 ⁷ ₄₈	19.81 ⁷ ₆	14.41 ⁷ ₁₆	23.96 ⁷ ₁₈	5.68 ⁷ ₁₃	24.49 ⁷ ₂₄
28	35.54 ⁸ ₅₀	19.87 ⁸ ₄	14.57 ⁸ ₁₆	23.78 ⁸ ₂₀	5.55 ⁸ ₁₃	24.25 ⁸ ₂₃
29	36.04 ⁹ ₅₁	19.91 ⁹ ₅	14.73 ⁹ ₁₇	23.58 ⁹ ₂₀	5.42 ⁹ ₁₄	24.02 ⁹ ₂₃
30	36.55 ¹⁰ ₅₃	19.96 ¹⁰ ₅	14.90 ¹⁰ ₁₇	23.38 ¹⁰ ₁₉	5.28 ¹⁰ ₁₄	23.77 ¹⁰ ₂₃
31	37.08 ¹¹ ₅₅	20.01 ¹¹ ₇	15.07 ¹¹ ₁₈	23.19 ¹¹ ₁₉	5.14 ¹¹ ₁₄	23.52 ¹¹ ₂₁
Nov. 1	37.63 ¹² ₅₅	20.08 ¹² ₉	15.25 ¹² ₁₈	23.00 ¹² ₁₆	5.00 ¹² ₁₄	23.25 ¹² ₃
2	38.18 ¹³ ₅₆	20.17 ¹³ ₁₂	15.43 ¹³ ₂₀	22.84 ¹³ ₁₄	4.86 ¹³ ₁₃	22.95 ¹³ ₃₁
3	38.74 ¹⁴ ₅₅	20.29 ¹⁴ ₁₄	15.63 ¹⁴ ₁₉	22.70 ¹⁴ ₁₃	4.73 ¹⁴ ₁₃	22.64 ¹⁴ ₃₃
4	39.29 ¹⁵ ₅₃	20.43 ¹⁵ ₁₅	15.82 ¹⁵ ₁₉	22.57 ¹⁵ ₁₀	4.60 ¹⁵ ₁₁	22.31 ¹⁵ ₃₄
5	39.82 ¹⁶ ₅₀	20.58 ¹⁶ ₁₆	16.01 ¹⁶ ₁₉	22.47 ¹⁶ ₈	4.49 ¹⁶ ₁₀	21.97 ¹⁶ ₃₄
6	40.32 ¹⁷ ₄₇	20.74 ¹⁷ ₁₇	16.20 ¹⁷ ₁₇	22.39 ¹⁷ ₈	4.39 ¹⁷ ₉	21.63 ¹⁷ ₃₃
7	40.79 ¹⁸ ₄₅	20.91 ¹⁸ ₁₆	16.37 ¹⁸ ₁₇	22.31 ¹⁸ ₈	4.30 ¹⁸ ₉	21.30 ¹⁸ ₃₂
8	41.24 ¹⁹ ₄₃	21.07 ¹⁹ ₁₅	16.54 ¹⁹ ₁₇	22.23 ¹⁹ ₈	4.21 ¹⁹ ₈	20.98 ¹⁹ ₃₁
9	41.67 ²⁰ ₄₂	21.22 ²⁰ ₁₃	16.71 ²⁰ ₁₆	22.15 ²⁰ ₉	4.13 ²⁰ ₉	20.68 ²⁰ ₂₈
10	42.09 ²¹ ₄₃	21.35 ²¹ ₁₃	16.87 ²¹ ₁₆	22.06 ²¹ ₁₁	4.04 ²¹ ₉	20.40 ²¹ ₂₈
11	42.52 ²² ₄₅	21.48 ²² ₁₂	17.03 ²² ₁₆	21.95 ²² ₁₂	3.95 ²² ₁₀	20.12 ²² ₂₉
12	42.97 ²³ ₄₇	21.60 ²³ ₁₁	17.19 ²³ ₁₈	21.83 ²³ ₁₂	3.85 ²³ ₁₀	19.83 ²³ ₂₉
13	43.44 ²⁴ ₄₈	21.71 ²⁴ ₁₃	17.37 ²⁴ ₁₈	21.71 ²⁴ ₁₂	3.75 ²⁴ ₁₀	19.54 ²⁴ ₃₁
14	43.92 ²⁵ ₅₀	21.84 ²⁵ ₁₄	17.55 ²⁵ ₂₀	21.59 ²⁵ ₁₁	3.65 ²⁵ ₁₀	19.24 ²⁵ ₃₃
15	44.42 ²⁶ ₅₁	21.98 ²⁶ ₁₇	17.75 ²⁶ ₁₉	21.48 ²⁶ ₉	3.55 ²⁶ ₁₁	18.91 ²⁶ ₃₄
16	44.93 ²⁷ ₅₁	22.15 ²⁷ ₁₉	17.94 ²⁷ ₂₀	21.39 ²⁷ ₆	3.44 ²⁷ ₉	18.57 ²⁷ ₃₅
17	45.44 ²⁸ ₄₉	22.34 ²⁸ ₂₀	18.14 ²⁸ ₂₀	21.33 ²⁸ ₅	3.35 ²⁸ ₉	18.22 ²⁸ ₃₅
18	45.93 ²⁹ ₄₈	22.54 ²⁹ ₂₂	18.34 ²⁹ ₂₀	21.28 ²⁹ ₃	3.26 ²⁹ ₈	17.84 ²⁹ ₃₅
19	46.41 ³⁰ ₄₅	22.76 ³⁰ ₂₃	18.54 ³⁰ ₁₈	21.25 ³⁰ ₂	3.18 ³⁰ ₇	17.46 ³⁰ ₃₅
20	46.86 ³¹ ₄₂	22.99 ³¹ ₂₂	18.72 ³¹ ₁₈	21.23 ³¹ ₀	3.11 ³¹ ₅	17.08 ³¹ ₃₅
21	47.28 ³² ₄₀	23.21 ³² ₂₁	18.90 ³² ₁₇	21.23 ³² ₂	3.06 ³² ₆	16.71 ³² ₃₅
22	47.68 ³³ ₃₉	23.42 ³³ ₂₁	19.07 ³³ ₁₇	21.21 ³³ ₃	3.00 ³³ ₆	16.36 ³³ ₃₄
23	48.07 ³⁴ ₃₇	23.63 ³⁴ ₁₉	19.24 ³⁴ ₁₇	21.18 ³⁴ ₃	2.94 ³⁴ ₅	16.02 ³⁴ ₃₂
24	48.44 ³⁵ ₃₉	23.82 ³⁵ ₁₈	19.41 ³⁵ ₁₆	21.15 ³⁵ ₅	2.89 ³⁵ ₅	15.70 ³⁵ ₃₃
25	48.83 ³⁶ ₄₀	24.00 ³⁶ ₁₇	19.57 ³⁶ ₁₇	21.10 ³⁶ ₅	2.84 ³⁶ ₇	15.37 ³⁶ ₃₁
26	49.23 ³⁷ ₄₁	24.17 ³⁷ ₁₈	19.74 ³⁷ ₁₈	21.05 ³⁷ ₅	2.77 ³⁷ ₇	15.06 ³⁷ ₃₃
27	49.64 ³⁸ ₄₁	24.35 ³⁸ ₁₈	19.92 ³⁸ ₁₈	21.00 ³⁸ ₅	2.70 ³⁸ ₇	14.73 ³⁸ ₃₃
O. K.	+ 0°.43 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. K.	— 0°.43 cos φ		— 0°.15 cos φ		— 0°.16 cos φ	

Obere Kulmination.

1909	51 Hev. Cephei. 5 ^m .2.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 58 ^m	+87° 11'	9 ^h 24 ^m	+81° 43'	16 ^h 55 ^m	+82° 11'
Nov. 27	49.64	24.35	19.92	21.00	2.70	14.73
28	50.07	24.53	20.10	20.96	2.63	14.39
29	50.50	24.74	20.30	20.93	2.56	14.03
30	50.95	24.97	20.50	20.93	2.49	13.65
Dez. 1	51.38	25.23	20.70	20.94	2.44	13.26
2	51.79	25.50	20.89	20.98	2.40	12.86
3	52.17	25.78	21.08	21.05	2.37	12.46
4	52.51	26.07	21.25	21.12	2.34	12.07
5	52.84	26.35	21.42	21.20	2.33	11.68
6	53.14	26.62	21.58	21.27	2.32	11.31
7	53.42	26.88	21.74	21.33	2.30	10.96
8	53.70	27.13	21.90	21.38	2.30	10.63
9	53.99	27.37	22.05	21.42	2.28	10.30
10	54.30	27.60	22.21	21.45	2.26	9.97
11	54.61	27.84	22.38	21.49	2.24	9.63
12	54.95	28.08	22.55	21.54	2.22	9.27
13	55.30	28.35	22.73	21.60	2.20	8.90
14	55.64	28.63	22.91	21.68	2.17	8.51
15	55.97	28.93	23.10	21.78	2.16	8.10
16	56.28	29.26	23.28	21.90	2.16	7.69
17	56.56	29.58	23.45	22.04	2.18	7.29
18	56.81	29.91	23.61	22.18	2.20	6.89
19	57.04	30.22	23.77	22.32	2.23	6.52
20	57.25	30.53	23.92	22.46	2.25	6.16
21	57.44	30.82	24.06	22.59	2.28	5.81
22	57.63	31.09	24.21	22.71	2.31	5.48
23	57.83	31.36	24.35	22.82	2.33	5.16
24	58.04	31.63	24.50	22.92	2.35	4.83
25	58.27	31.91	24.65	23.02	2.37	4.48
26	58.51	32.19	24.81	23.14	2.38	4.13
27	58.75	32.49	24.97	23.28	2.39	3.76
28	58.98	32.81	25.14	23.45	2.41	3.37
29	59.19	33.16	25.30	23.63	2.45	2.99
30	59.36	33.51	25.45	23.84	2.50	2.60
31	59.51	33.87	25.59	24.06	2.56	2.22
32	59.64	34.23	25.73	24.29	2.63	1.84
					2.71	1.48
U. K.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
L. K.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	♂ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 11 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Jan. 0	21.06 0	46.96 31	14.52 33	16.56 30	6.63 9	48.14 25
1	21.06 0	46.65 31	14.19 36	16.26 29	6.54 8	47.89 25
2	21.06 1	46.34 32	13.83 38	15.97 29	6.46 9	47.64 23
3	21.05 2	46.02 33	13.45 42	15.68 29	6.37 10	47.41 24
4	21.03 1	45.69 36	13.03 44	15.39 32	6.27 11	47.17 25
5	21.02 2	45.33 37	12.59 44	15.07 33	6.16 10	46.92 26
6	21.04 4	44.96 38	{ 12.15 40	{ 14.74 35	6.06 11	46.66 29
7	21.08 5	44.58 38	{ 11.75 36	{ 14.39 36	5.95 11	46.37 31
8	21.13 8	44.20 38	11.39 26	14.03 38	5.84 10	46.06 32
9	21.21 10	43.82 37	11.13 19	13.65 37	5.74 8	45.74 34
10	21.31 13	43.45 35	10.94 9	13.28 37	5.66 8	45.40 34
11	21.44 13	43.10 33	10.85 2	12.91 35	5.58 7	45.06 34
12	21.57 13	42.77 32	10.83 3	12.56 35	5.51 5	44.72 32
13	21.70 12	42.45 29	10.86 5	12.21 33	5.46 5	44.40 31
14	21.82 11	42.16 29	10.91 3	11.88 31	5.41 5	44.09 30
15	21.93 10	41.87 30	10.94 1	11.57 29	5.36 5	43.79 28
16	22.03 9	41.57 30	10.95 4	11.28 30	5.31 5	43.51 28
17	22.12 9	41.27 32	10.91 8	10.98 31	5.26 6	43.23 28
18	22.21 9	40.95 33	10.83 11	10.67 31	5.20 7	42.95 29
19	22.30 10	40.62 35	10.72 10	10.36 34	5.13 7	42.66 30
20	22.40 13	40.27 35	10.62 8	10.02 36	5.06 7	42.36 32
21	22.53 15	39.92 35	10.54 1	9.66 36	4.99 7	42.04 34
22	22.68 17	39.57 35	10.53 7	9.30 37	4.92 5	41.70 36
23	22.85 19	39.22 33	10.60 15	8.93 37	4.87 5	41.34 36
24	23.04 20	38.89 32	10.75 23	8.56 36	4.82 4	40.98 36
25	23.24 22	38.57 29	10.98 30	8.20 34	4.78 3	40.62 36
26	23.46 21	38.28 27	11.28 34	7.86 33	4.75 1	40.26 34
27	23.67 20	38.01 25	11.62 35	7.53 31	4.74 2	39.92 33
28	23.87 19	37.76 26	11.97 35	7.22 30	4.72 1	39.59 31
29	24.06 18	37.50 26	12.32 32	6.92 28	{ 4.71 1	{ 39.28 31
30	24.24 18	37.24 26	12.64 28	6.64 28	{ 4.70 2	{ 38.97 30
31	24.42 18	36.98 27	12.92 25	6.36 29	4.68 3	38.67 30
Febr. 1	24.60 19	36.71 29	13.17 24	6.07 31	4.65 2	38.37 31
2	24.79 20	36.42 30	13.41 26	5.76 32	4.63 2	38.06 33
3	24.99 23	36.12 31	13.67 30	5.44 33	4.61 2	37.75 35
4	25.22 31	35.81 31	13.97 38	5.11 35	4.59 1	37.38 37
			14.35 38	4.76 35	4.58 1	37.01 37
O. K.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.36 cos φ		- 1°.23 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 11 ^m	+88° 59'	20 ^h 49 ^m	+82° 11'
Febr. 4	25.22 ²⁵	35.81 ³⁰	14.35 ⁴⁶	64.76 ³⁵	4.58 ¹	37.01 ³⁷
5	25.47 ²⁸	35.51 ²⁹	14.81 ⁵⁵	64.41 ³⁵	4.57 ⁰	36.64 ³⁹
6	25.75 ²⁹	35.22 ²⁷	15.36 ⁶³	64.06 ³³	4.57 ¹	36.25 ³⁷
7	26.04 ³⁰	34.95 ²⁵	15.99 ⁶⁸	63.73 ³¹	4.58 ²	35.88 ³⁶
8	26.34 ³⁰	34.70 ²³	16.67 ⁷¹	63.42 ³⁰	4.60 ³	35.52 ³⁶
9	26.64 ³⁰	34.47 ²¹	17.38 ⁷⁰	63.12 ²⁷	4.63 ⁴	35.16 ³³
10	26.94 ²⁹	34.26 ²⁰	18.08 ⁶⁷	62.85 ²⁵	4.67 ⁴	34.83 ³¹
11	27.23 ²⁶	34.06 ¹⁹	18.75 ⁶⁴	62.60 ²⁵	4.71 ³	34.52 ³⁰
12	27.49 ²⁶	33.87 ¹⁹	19.39 ⁵⁹	62.35 ²⁴	4.74 ²	34.22 ²⁹
13	27.75 ²⁴	33.68 ²⁰	19.98 ⁵⁴	62.11 ²⁶	4.76 ²	33.93 ³⁰
14	27.99 ²⁴	33.48 ²²	20.52 ⁵⁴	61.85 ²⁷	4.78 ²	33.63 ³¹
15	28.23 ²⁵	33.26 ²³	21.06 ⁵⁵	61.58 ²⁸	4.80 ¹	33.32 ³²
16	28.48 ²⁸	33.03 ²³	21.61 ⁵⁹	61.30 ²⁹	4.81 ²	33.00 ³⁴
17	28.76 ²⁹	32.80 ²⁴	22.20 ⁶⁵	61.01 ³⁰	4.83 ²	32.66 ³⁵
18	29.05 ³¹	32.56 ²³	22.85 ⁷³	60.71 ³⁰	4.85 ³	32.31 ³⁶
19	29.36 ³³	32.33 ²¹	23.58 ⁸¹	60.41 ²⁹	4.88 ⁵	31.95 ³⁵
20	29.69 ³⁴	32.12 ²⁰	24.39 ⁸⁸	60.12 ²⁷	4.93 ⁶	31.60 ³⁵
21	30.03 ³⁶	31.92 ¹⁷	25.27 ⁹³	59.85 ²⁵	4.99 ⁶	31.25 ³³
22	30.39 ³⁵	31.75 ¹⁵	26.20 ⁹⁵	59.60 ²³	5.05 ⁷	30.92 ³¹
23	30.74 ³³	31.60 ¹³	27.15 ⁹⁴	59.37 ²¹	5.12 ⁸	30.61 ²⁹
24	31.07 ³³	31.47 ¹²	28.09 ⁹⁰	59.16 ²⁰	5.20 ⁷	30.32 ²⁸
25	31.40 ³¹	31.35 ¹¹	28.99 ⁸⁶	58.96 ¹⁹	5.27 ⁶	30.04 ²⁷
26	31.71 ³⁰	31.24 ¹²	29.85 ⁸²	58.77 ¹⁹	5.33 ⁶	29.77 ²⁷
27	32.01 ³⁰	31.12 ¹³	30.67 ⁷⁹	58.58 ²⁰	5.39 ⁶	29.50 ²⁷
28	32.31 ³⁰	30.99 ¹⁴	31.46 ⁸⁰	58.38 ²¹	5.45 ⁵	29.23 ²⁸
März 1	32.61 ³¹	30.85 ¹⁵	32.26 ⁸²	58.17 ²²	5.50 ⁶	28.95 ²⁹
2	32.92 ³²	30.70 ¹⁶	33.08 ⁸⁷	57.95 ²⁴	5.56 ⁶	28.66 ³¹
3	33.24 ³⁵	30.54 ¹⁶	33.95 ⁹⁵	57.71 ²⁴	5.62 ⁷	28.35 ³³
4	33.59 ³⁷	30.38 ¹⁴	34.90 ¹⁰²	57.47 ²³	5.69 ⁸	28.02 ³³
5	33.96 ³⁹	30.24 ¹³	35.92 ¹⁰⁹	57.24 ²³	5.77 ⁹	27.69 ³²
6	34.35 ⁴⁰	30.11 ¹¹	37.01 ¹¹⁵	57.01 ²⁰	5.86 ¹⁰	27.37 ³¹
7	34.75 ³⁹	30.00 ⁸	38.16 ¹²⁰	56.81 ¹⁸	5.96 ¹¹	27.06 ³⁰
8	35.14 ³⁹	29.92 ⁶	39.36 ¹¹⁹	56.63 ¹⁵	6.07 ¹¹	26.76 ²⁷
9	35.53 ³⁸	29.86 ⁴	40.55 ¹¹⁵	56.48 ¹⁴	6.18 ¹¹	26.49 ²⁵
10	35.91 ³⁶	29.82 ³	41.70 ¹¹⁰	56.34 ¹²	6.29 ¹²	26.24 ²³
11	36.27 ³⁴	29.79 ³	42.80 ¹⁰⁴	56.22 ¹²	6.41 ¹⁰	26.01 ²¹
12	36.61 ³²	29.76 ⁴	43.84 ⁹⁸	56.10 ¹²	6.51 ¹⁰	25.80 ²¹
13	36.93	29.72	44.82	55.98	6.61	25.59

U. K. + 0°.36 cos φ
 U. K. - 0.36 cos φ

+ 1°.22 cos φ
 - 1.22 cos φ

+ 0°.16 cos φ
 - 0.16 cos φ

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 11 ^m	+88° 59'	20 ^h 49 ^m	+82° 11'
März 13	36.93 ³²	29.72 ⁴	44.82 ⁹⁶	55.98 ¹³	6.61 ⁸	25.59 ²²
14	37.25 ³²	29.68 ⁶	45.78 ⁹⁵	55.85 ¹⁴	6.69 ⁹	25.37 ²³
15	37.57 ³³	29.62 ⁷	46.73 ⁹⁷	55.71 ¹⁵	6.78 ¹⁰	25.14 ²⁵
16	37.90 ³⁴	29.55 ⁷	47.70 ¹⁰¹	55.56 ¹⁵	6.88 ⁹	24.89 ²⁵
17	38.24 ³⁶	29.48 ⁷	48.71 ¹⁰⁷	55.41 ¹⁶	6.97 ¹⁰	24.64 ²⁵
18	38.60 ³⁸	29.41 ⁵	49.78 ¹¹⁵	55.25 ¹⁶	7.07 ¹⁰	24.39 ²⁶
19	38.98 ³⁹	29.36 ³	50.93 ¹²²	55.09 ¹³	7.17 ¹²	24.13 ²⁴
20	39.37 ⁴⁰	29.33 ¹	52.15 ¹²⁵	54.96 ¹¹	7.29 ¹⁴	23.89 ²³
21	39.77 ³⁹	29.32 ¹	53.40 ¹²⁷	54.85 ⁹	7.43 ¹³	23.66 ²²
22	40.16 ³⁸	29.33 ⁴	54.67 ¹²⁶	54.76 ⁷	7.56 ¹⁴	23.44 ¹⁹
23	40.54 ³⁷	29.37 ⁵	55.93 ¹²²	54.69 ⁵	7.70 ¹³	23.25 ¹⁸
24	40.91 ³⁴	29.42 ⁶	57.15 ¹¹⁷	54.64 ⁴	7.83 ¹³	23.07 ¹⁵
25	41.25 ³⁴	29.48 ⁵	58.32 ¹¹²	54.60 ³	7.97 ¹⁴	22.92 ¹⁵
26	41.59 ³²	29.53 ⁵	59.44 ¹⁰⁶	54.57 ⁴	8.10 ¹²	22.77 ¹⁵
27	41.91 ³²	29.58 ⁴	60.50 ¹⁰⁵	54.53 ⁴	8.22 ¹²	22.62 ¹⁶
28	42.23 ³²	29.62 ²	61.55 ¹⁰⁵	54.49 ⁶	8.34 ¹¹	22.46 ¹⁶
29	42.55 ³³	29.64 ²	62.60 ¹⁰⁸	54.43 ⁸	8.45 ¹³	22.30 ¹⁷
30	42.88 ³⁴	29.66 ¹	63.68 ¹¹²	54.35 ⁸	8.58 ¹²	22.13 ¹⁹
31	43.22 ³⁷	29.67 ²	64.80 ¹²⁰	54.27 ⁸	8.70 ¹⁴	21.94 ¹⁹
April 1	43.59 ³⁸	29.69 ⁴	66.00 ¹²⁷	54.19 ⁷	8.84 ¹⁴	21.75 ¹⁹
2	43.97 ⁴⁰	29.73 ⁶	67.27 ¹³²	54.12 ⁴	8.98 ¹⁵	21.56 ¹⁸
3	44.37 ³⁹	29.79 ⁸	68.59 ¹³⁵	54.08 ²	9.13 ¹⁶	21.38 ¹⁶
4	44.76 ³⁸	29.87 ¹¹	69.94 ¹³⁴	54.06 ⁰	9.29 ¹⁶	21.22 ¹³
5	45.14 ³⁷	29.98 ¹²	71.28 ¹³¹	54.06 ²	9.45 ¹⁶	21.09 ¹¹
6	45.51 ³⁴	30.10 ¹⁴	72.59 ¹²⁶	54.08 ⁴	9.61 ¹⁶	20.98 ⁹
7	45.85 ³³	30.24 ¹⁴	73.85 ¹¹⁹	54.12 ⁵	9.77 ¹⁶	20.89 ⁸
8	46.18 ³⁰	30.38 ¹⁴	75.04 ¹¹²	54.17 ⁴	9.93 ¹⁴	20.81 ⁸
9	46.48 ²⁹	30.52 ¹³	76.16 ¹⁰⁶	54.21 ⁴	10.07 ¹⁴	20.73 ⁷
10	46.77 ²⁹	30.65 ¹¹	77.22 ¹⁰³	54.25 ⁴	10.21 ¹³	20.66 ⁷
11	47.06 ²⁸	30.76 ¹⁰	78.25 ¹⁰²	54.29 ²	10.34 ¹³	20.59 ⁸
12	47.34 ²⁹	30.86 ¹⁰	79.27 ¹⁰⁴	54.31 ¹	10.47 ¹³	20.51 ¹⁰
13	47.63 ³²	30.96 ⁹	80.31 ¹⁰⁹	54.32 ²	10.60 ¹⁴	20.41 ¹²
14	47.95 ³³	31.05 ¹¹	81.40 ¹¹⁵	54.34 ¹	10.74 ¹⁴	20.31 ¹¹
15	48.28 ³³	31.16 ¹²	82.55 ¹²¹	54.35 ²	10.88 ¹⁵	20.20 ⁹
16	48.61 ³⁴	31.28 ¹⁴	83.76 ¹²⁵	54.37 ⁵	11.03 ¹⁶	20.11 ⁸
17	48.95 ³⁴	31.42 ¹⁷	85.01 ¹²⁵	54.42 ⁷	11.19 ¹⁸	20.03 ⁶
18	49.29 ³²	31.59 ²⁰	86.26 ¹²⁵	54.49 ⁹	11.37 ¹⁷	19.97 ⁴
19	49.61	31.79	87.51	54.58	11.54	19.93
O. K.	+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.36 cos φ		- 1°.22 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 12 ^m	+88° 59'	20 ^h 49 ^m	+82° 11'
April 19	49.61 ³¹	31.79 ²⁰	27.51 ¹²⁰	54.58 ¹¹	11.54 ¹⁸	19.93 ²
20	49.92 ²⁸	31.99 ²¹	28.71 ¹¹⁵	54.69 ¹³	11.72 ¹⁶	19.91 ⁰
21	50.20 ²⁷	32.20 ²²	29.86 ¹⁰⁸	54.82 ¹³	11.88 ¹⁶	19.91 ²
22	50.47 ²⁵	32.42 ²⁰	30.94 ¹⁰²	54.95 ¹³	12.04 ¹⁵	19.93 ²
23	50.72 ²⁴	32.62 ²⁰	31.96 ⁹⁷	55.08 ¹²	12.19 ¹⁵	19.95 ²
24	50.96 ²⁴	32.82 ¹⁸	32.93 ⁹⁵	55.20 ¹¹	12.34 ¹⁴	19.97 ⁰
25	51.20 ²⁴	33.00 ¹⁷	33.88 ⁹⁵	55.31 ⁹	12.48 ¹⁴	19.97 ¹
26	51.44 ²⁵	33.17 ¹⁶	34.83 ⁹⁹	55.40 ⁹	12.62 ¹⁴	19.96 ¹
27	51.69 ²⁷	33.33 ¹⁷	35.82 ¹⁰⁴	55.49 ⁹	12.76 ¹⁴	19.95 ²
28	51.96 ²⁹	33.50 ¹⁸	36.86 ¹¹⁰	55.58 ⁹	12.90 ¹⁶	19.93 ²
29	52.25 ²⁹	33.68 ²⁰	37.96 ¹¹⁶	55.67 ¹¹	13.06 ¹⁶	19.91 ¹
30	52.54 ²⁹	33.88 ²¹	39.12 ¹¹⁷	55.78 ¹²	13.22 ¹⁷	19.90 ¹
Mai 1	52.83 ²⁹	34.09 ²⁴	40.29 ¹¹⁷	55.90 ¹⁵	13.39 ¹⁷	19.91 ³
2	53.12 ²⁸	34.33 ²⁶	41.46 ¹¹⁵	56.05 ¹⁷	13.56 ¹⁸	19.94 ⁴
3	53.40 ²⁴	34.59 ²⁶	42.61 ¹⁰⁹	56.22 ¹⁹	13.74 ¹⁷	19.98 ⁷
4	53.64 ²³	34.85 ²⁸	43.70 ¹⁰¹	56.41 ²⁰	13.91 ¹⁶	20.05 ⁹
5	53.87 ²⁰	35.13 ²⁸	44.71 ⁹³	56.61 ²¹	14.07 ¹⁶	20.14 ¹⁰
6	54.07 ¹⁷	35.41 ²⁶	45.64 ⁸⁵	56.82 ²⁰	14.23 ¹⁵	20.24 ¹⁰
7	54.24 ¹⁷	35.67 ²⁵	46.49 ⁸¹	57.02 ¹⁹	14.38 ¹⁴	20.34 ¹¹
8	54.41 ¹⁶	35.92 ²³	47.30 ⁷⁸	57.21 ¹⁷	14.52 ¹³	20.45 ⁹
9	54.57 ¹⁷	36.15 ²²	48.08 ⁷⁷	57.38 ¹⁷	14.65 ¹³	20.54 ⁸
10	54.74 ¹⁸	36.37 ²²	48.85 ⁸⁰	57.55 ¹⁶	14.78 ¹³	20.62 ⁷
11	54.92 ¹⁹	36.59 ²²	49.65 ⁸⁴	57.71 ¹⁵	14.91 ¹⁴	20.69 ⁷
12	55.11 ²⁰	36.81 ²³	50.49 ⁸⁹	57.86 ¹⁶	15.05 ¹⁵	20.76 ⁶
13	55.31 ²¹	37.04 ²⁵	51.38 ⁹⁴	58.02 ¹⁸	15.20 ¹⁶	20.82 ⁸
14	55.52 ²⁰	37.29 ²⁸	52.32 ⁹⁵	58.20 ²¹	15.36 ¹⁶	20.90 ⁹
15	55.72 ²⁰	37.57 ²⁸	53.27 ⁹⁴	58.41 ²³	15.52 ¹⁷	20.99 ¹²
16	55.92 ¹⁸	37.85 ³¹	54.21 ⁹⁰	58.64 ²⁴	15.69 ¹⁶	21.11 ¹⁵
17	56.10 ¹⁶	38.16 ³²	55.11 ⁸³	58.88 ²⁶	15.85 ¹⁵	21.26 ¹⁶
18	56.26 ¹³	38.48 ³¹	55.94 ⁷⁵	59.14 ²⁶	16.00 ¹⁵	21.42 ¹⁸
19	56.39 ¹¹	38.79 ³²	56.69 ⁶⁹	59.40 ²⁷	16.15 ¹⁴	21.60 ¹⁸
20	56.50 ⁹	39.11 ³⁰	57.38 ⁶³	59.67 ²⁶	16.29 ¹³	21.78 ¹⁸
21	56.59 ⁹	39.41 ²⁸	58.01 ⁵⁸	59.93 ²⁵	16.42 ¹³	21.96 ¹⁸
22	56.68 ⁹	39.69 ²⁷	58.59 ⁵⁷	60.18 ²²	16.55 ¹²	22.14 ¹⁶
23	56.77 ¹⁰	39.96 ²⁶	59.16 ⁵⁸	60.40 ²²	16.67 ¹²	22.30 ¹⁵
24	56.87 ¹¹	40.22 ²⁵	59.74 ⁶³	60.62 ²¹	16.79 ¹³	22.45 ¹⁴
25	56.98 ¹²	40.47 ²⁶	60.37 ⁶⁷	60.83 ²¹	16.92 ¹⁴	22.59 ¹⁴
26	57.10	40.73	61.04	61.04	17.06	22.73
U. K.	+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
L. K.	- 0°.36 cos φ		- 1°.22 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 13 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Mai 26	57.10	40.73	1.04	1.04	17.06	22.73
27	57.24 ¹⁴	41.00 ²⁷	1.76 ⁷²	1.26 ²²	17.19 ¹³	22.87 ¹⁴
28	57.38 ¹⁴	41.29 ²⁹	2.51 ⁷⁵	1.50 ²⁴	17.33 ¹⁵	23.03 ¹⁶
29	57.50 ¹²	41.60 ³¹	3.26 ⁷⁵	1.75 ²⁵	17.48 ¹⁴	23.20 ¹⁷
30	57.62	41.92	3.99	2.02	17.63 ¹⁵	23.39 ¹⁹
31	57.72	42.26	4.67	2.32	17.78 ¹⁵	23.60 ²¹
Juni 1	57.79 ⁷	42.61 ³⁵	5.26 ⁵⁹	2.63 ³¹	17.92 ¹⁴	23.84 ²⁴
2	57.84 ⁵	42.95 ³⁴	5.77 ⁵¹	2.95 ³²	18.05 ¹³	24.09 ²⁵
3	57.86 ²	43.28 ³³	6.20 ⁴³	3.25 ³⁰	18.17 ¹²	24.33 ²⁴
4	57.87 ¹	43.60 ³²	6.55 ³⁵	3.55 ³⁰	18.28 ¹¹	24.58 ²⁵
5	57.87 ⁰	43.90 ³⁰	6.86 ³¹	3.83 ²⁸	18.38 ¹⁰	24.82 ²⁴
6	57.86 ¹	44.18 ²⁸	7.16 ³⁰	4.10 ²⁷	18.48 ¹⁰	25.05 ²³
7	57.87 ¹	44.46 ²⁸	7.47 ³¹	4.36 ²⁶	18.57 ⁹	25.27 ²²
8	57.87 ²	44.46 ²⁷	7.47 ³⁴	4.36 ²⁵	18.57 ¹⁰	25.27 ²¹
8	57.89 ³	44.73 ²⁷	7.81 ³⁹	4.61 ²⁶	18.67 ¹⁰	25.48 ²¹
9	57.92 ³	45.00 ²⁹	8.20 ⁴²	4.87 ²⁶	18.77 ¹¹	25.69 ²¹
10	57.95 ³	45.29 ³¹	8.62 ⁴²	5.13 ²⁹	18.88 ¹¹	25.90 ²¹
11	57.99 ⁴	45.60 ³³	9.05 ⁴³	5.42 ³⁰	19.00 ¹²	26.13 ²³
12	57.99 ³	45.60 ³³	9.05 ⁴⁴	5.42 ³⁰	19.00 ¹³	26.13 ²⁴
12	58.02 ¹	45.93 ³⁴	9.49 ⁴¹	5.72 ³²	19.13 ¹²	26.37 ²⁷
13	58.03 ¹	46.27 ³⁵	9.90 ⁴¹	6.04 ³³	19.25 ¹¹	26.64 ²⁹
14	58.02 ³	46.62 ³⁶	10.24 ²⁶	6.37 ³⁵	19.36 ¹¹	26.93 ³
15	57.99 ⁶	46.98 ³⁴	10.50 ¹⁹	6.72 ³⁴	19.47 ¹⁰	27.23 ³¹
16	57.93 ⁷	47.32 ³³	10.69 ¹¹	7.06 ³³	19.57 ⁹	27.54 ³¹
17	57.86 ⁹	47.65 ³²	10.80 ⁵	7.39 ³¹	19.66 ⁸	27.85 ³²
18	57.77 ⁹	47.97 ³⁰	10.85 ³	7.70 ³²	19.74 ⁸	28.15 ²⁹
19	57.68 ⁸	48.27 ²⁸	10.88 ³	8.02 ³⁰	19.82 ⁷	28.44 ²⁷
20	57.60 ⁷	48.55 ²⁸	10.91 ⁶	8.32 ²⁷	19.89 ⁸	28.71 ²⁷
21	57.53 ⁶	48.83 ²⁸	10.97 ¹¹	8.59 ²⁷	19.97 ⁸	28.98 ²⁶
22	57.47 ⁵	49.11 ²⁷	11.08 ¹⁴	8.86 ²⁸	20.05 ⁸	29.24 ²⁵
23	57.42 ⁴	49.38 ²⁹	11.22 ¹⁸	9.14 ²⁹	20.13 ⁹	29.49 ²⁶
24	57.38 ⁴	49.67 ³¹	11.40 ²⁰	9.43 ³⁰	20.22 ⁹	29.75 ²⁷
25	57.34 ⁴	49.98 ³³	11.60 ¹⁸	9.73 ³³	20.31 ⁹	30.02 ³⁰
26	57.30 ⁷	50.31 ³³	11.78 ¹⁴	10.06 ³⁴	20.40 ⁹	30.32 ³¹
27	57.23 ¹⁰	50.64 ³⁵	11.92 ⁷	10.40 ³⁵	20.49 ⁹	30.63 ³³
28	57.13 ¹²	50.99 ³⁴	11.99 ²	10.75 ³⁵	20.58 ⁸	30.96 ³⁴
29	57.01 ¹⁴	51.33 ³⁴	11.97 ¹¹	11.10 ³⁶	20.66 ⁷	31.30 ³⁵
30	56.87 ¹⁶	51.67 ³²	11.86 ²⁰	11.46 ³⁵	20.73 ⁵	31.65 ³⁵
Juli 1	56.71 ¹⁸	51.99 ³⁰	11.66 ²⁴	11.81 ³³	20.78 ⁵	32.00 ³⁴
2	56.53	52.29	11.42	12.14	20.83	32.34
O. K.	+ 0°.36	cos φ	+ 1°.22	cos φ	+ 0°.16	cos φ
U. K.	- 0°.36	cos φ	- 1°.22	cos φ	- 0°.16	cos φ

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 12 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Juli 2	56.53 ₁₇	52.29 ₂₇	71.42 ₂₇	12.14 ₃₁	20.83 ₄	32.34 ₃₃
3	56.36 ₁₇	52.56 ₂₇	71.15 ₂₈	12.45 ₂₉	20.87 ₄	32.67 ₃₁
4	56.19 ₁₆	52.83 ₂₅	70.87 ₂₆	12.74 ₂₉	20.91 ₃	32.98 ₃₀
5	56.03 ₁₅	53.08 ₂₆	70.61 ₂₁	13.03 ₂₈	20.94 ₄	33.28 ₃₀
6	55.88 ₁₄	53.34 ₂₇	70.40 ₁₆	13.31 ₂₉	20.98 ₄	33.58 ₂₉
7	55.74 ₁₃	53.61 ₂₇	70.24 ₁₅	13.60 ₃₀	21.02 ₆	33.87 ₃₁
8	55.61 ₁₄	53.88 ₃₀	70.09 ₁₄	13.90 ₃₁	21.08 ₆	34.18 ₃₁
9	55.47 ₁₆	54.18 ₃₁	69.95 ₁₇	14.21 ₃₄	21.14 ₅	34.49 ₃₃
10	55.31 ₁₇	54.49 ₃₂	69.78 ₂₁	14.55 ₃₅	21.19 ₆	34.82 ₃₆
11	55.14 ₁₉	54.81 ₃₂	69.57 ₂₈	14.90 ₃₆	21.25 ₅	35.18 ₃₇
12	54.95 ₂₂	55.13 ₃₂	69.29 ₃₇	15.26 ₃₆	21.30 ₃	35.55 ₃₈
13	54.73 ₂₃	55.45 ₃₁	68.92 ₄₅	15.62 ₃₅	21.33 ₃	35.93 ₃₈
14	54.50 ₂₅	55.76 ₂₉	68.47 ₅₀	15.97 ₃₃	21.36 ₂	36.31 ₃₇
15	54.25 ₂₆	56.05 ₂₆	67.97 ₅₄	16.30 ₃₂	21.38 ₁	36.68 ₃₇
16	53.99 ₂₅	56.31 ₂₅	67.43 ₅₆	16.62 ₃₁	21.39 ₀	37.05 ₃₄
17	53.74 ₂₄	56.56 ₂₃	66.87 ₅₃	16.93 ₂₉	21.39 ₁	37.39 ₃₃
18	53.50 ₂₃	56.79 ₂₃	66.34 ₄₉	17.22 ₂₇	21.40 ₁	37.72 ₃₂
19	53.27 ₂₁	57.02 ₂₃	65.85 ₄₅	17.49 ₂₇	21.41 ₁	38.04 ₃₀
20	53.06 ₂₁	57.25 ₂₄	65.40 ₄₀	17.76 ₂₈	21.42 ₂	38.34 ₃₁
21	52.85 ₂₀	57.49 ₂₅	65.00 ₃₉	18.04 ₂₉	21.44 ₂	38.65 ₃₃
22	52.65 ₂₀	57.74 ₂₆	64.61 ₃₈	18.33 ₃₁	21.46 ₂	38.98 ₃₃
23	52.45 ₂₁	58.00 ₂₈	64.23 ₄₁	18.64 ₃₂	21.48 ₂	39.31 ₃₅
24	52.24 ₂₄	58.28 ₂₉	63.82 ₄₇	18.96 ₃₄	21.50 ₂	39.66 ₃₈
25	52.00 ₂₇	58.57 ₂₉	63.35 ₅₆	19.30 ₃₅	21.52 ₁	40.04 ₃₈
26	51.73 ₂₉	58.86 ₂₇	62.79 ₆₄	19.65 ₃₃	21.53 ₁	40.42 ₃₉
27	51.44 ₃₁	59.13 ₂₆	62.15 ₇₂	19.98 ₃₃	21.54 ₂	40.81 ₄₀
28	51.13 ₃₃	59.39 ₂₅	61.43 ₇₉	20.31 ₃₂	21.52 ₂	41.21 ₃₉
29	50.80 ₃₂	59.64 ₂₂	60.64 ₈₃	20.63 ₃₀	21.50 ₂	41.60 ₃₆
30	50.48 ₃₂	59.86 ₂₀	59.81 ₈₃	20.93 ₂₈	21.48 ₃	41.96 ₃₅
31	50.16 ₃₂	60.06 ₁₉	58.98 ₈₂	21.21 ₂₆	21.45 ₄	42.31 ₃₃
Aug. 1	49.84 ₃₀	60.25 ₁₈	58.16 ₇₈	21.47 ₂₆	21.41 ₃	42.64 ₃₃
2	49.54 ₂₈	60.43 ₁₉	57.38 ₇₃	21.73 ₂₅	21.38 ₃	42.97 ₃₃
3	49.26 ₂₈	60.62 ₂₀	56.65 ₇₀	21.98 ₂₆	21.35 ₂	43.30 ₃₃
4	48.98 ₂₈	60.82 ₂₀	55.95 ₆₉	22.24 ₂₇	21.33 ₂	43.63 ₃₃
5	48.70 ₂₈	61.02 ₂₃	55.26 ₆₉	22.51 ₃₀	21.31 ₁	43.96 ₃₄
6	48.42 ₃₀	61.25 ₂₄	54.57 ₇₃	22.81 ₃₀	21.30 ₂	44.30 ₃₇
7	48.12 ₃₂	61.49 ₂₄	53.84 ₇₉	23.11 ₃₂	21.28 ₂	44.67 ₃₈
8	47.80	61.73	53.05	23.43	21.26	45.05
U. K.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
I. K.	- 0.36 cos φ		- 1.23 cos φ		- 0.16 cos φ	

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 37'	19 ^h 12 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Aug. 8	47.80	1.73	53.05	23.43	21.26	45.05
9	47.46 ³⁴	1.97 ²⁴	52.19	23.75 ³²	21.23 ³	45.45 ⁴⁰
10	47.10 ³⁶	2.19 ²²	51.25 ⁹⁴	24.06 ³¹	21.19 ⁴	45.84 ³⁹
11	46.72 ³⁸	2.40 ²¹	50.24 ¹⁰¹	24.36 ³⁰	21.14 ⁵	46.22 ³⁸
12	46.34 ³⁸	2.59 ¹⁹	49.18 ¹⁰⁶	24.64 ²⁸	21.08 ⁶	46.60 ³⁸
13	45.95 ³⁹	2.75 ¹⁶	48.12 ¹⁰⁶	24.90 ²⁶	21.01 ⁷	46.95 ³⁵
14	45.58 ³⁷	2.89 ¹⁴	47.06 ¹⁰²	25.14 ²⁴	20.94 ⁷	47.29 ³⁴
15	45.23 ³⁵	3.03 ¹⁴	46.04 ⁹⁷	25.36 ²²	20.88 ⁶	47.61 ³²
16	44.88 ³³	3.17 ¹⁴	45.07 ⁹²	25.58 ²²	20.82 ⁶	47.92 ³¹
17	44.55 ³²	3.31 ¹⁴	44.15 ⁸⁸	25.80 ²²	20.77 ⁵	48.22 ³⁰
18	44.23 ³²	3.45 ¹⁷	43.27 ⁸⁷	26.02 ²⁴	20.72 ⁵	48.53 ³¹
19	43.91 ³³	3.62 ¹⁸	42.40 ⁸⁷	26.26 ²⁶	20.67 ⁵	48.86 ³³
20	43.58 ³⁴	3.80 ¹⁸	41.53 ⁹³	26.52 ²⁷	20.62 ⁵	49.19 ³⁶
21	43.24 ³⁷	3.98 ¹⁹	40.60 ¹⁰⁰	26.79 ²⁷	20.57 ⁵	49.55 ³⁷
22	42.87 ³⁹	4.17 ¹⁸	39.60 ¹⁰⁸	27.06 ²⁸	20.52 ⁶	49.92 ³⁷
23	42.48 ⁴⁰	4.35 ¹⁷	38.52 ¹¹⁶	27.34 ²⁷	20.46 ⁷	50.29 ³⁷
24	42.08 ⁴³	4.52 ¹⁴	37.36 ¹²²	27.61 ²⁵	20.39 ⁹	50.66 ³⁶
25	41.65 ⁴³	4.66 ¹²	36.14 ¹²⁷	27.86 ²⁴	20.30 ¹⁰	51.02 ³⁵
26	41.22 ⁴³	4.78 ¹¹	34.87 ¹²⁸	28.10 ²¹	20.20 ¹⁰	51.37 ³⁴
27	40.79 ⁴¹	4.89 ⁸	33.59 ¹²⁸	28.31 ¹⁹	20.10 ¹⁰	51.71 ³¹
28	40.38 ⁴⁰	4.97 ⁷	32.31 ¹²³	28.50 ¹⁸	20.00 ¹¹	52.02 ³⁰
29	39.98 ³⁹	5.04 ⁸	31.08 ¹¹⁹	28.68 ¹⁷	19.89 ⁹	52.32 ³⁰
30	39.59 ³⁸	5.12 ⁸	29.89 ¹¹⁵	28.85 ¹⁸	19.80 ⁹	52.62 ²⁹
31	39.21 ³⁷	5.20 ⁹	28.74 ¹¹¹	29.03 ¹⁸	19.71 ⁹	52.91 ²⁹
Sept. 1	38.84 ³⁸	5.29 ¹¹	27.63 ¹¹⁰	29.21 ²⁰	19.62 ⁸	53.20 ³¹
2	38.46 ³⁸	5.40 ¹²	26.53 ¹¹²	29.41 ²²	19.54 ⁹	53.51 ³²
3	38.08 ⁴⁰	5.52 ¹²	25.41 ¹¹⁷	29.63 ²³	19.45 ⁸	53.83 ³⁴
4	37.68 ⁴¹	5.64 ¹³	24.24 ¹²⁴	29.86 ²⁴	19.37 ⁹	54.17 ³⁴
5	37.27 ⁴⁴	5.77 ¹²	23.00 ¹³¹	30.10 ²³	19.28 ¹⁰	54.51 ³⁵
6	36.83 ⁴⁵	5.89 ¹⁰	21.69 ¹³⁸	30.33 ²¹	19.18 ¹¹	54.86 ³⁵
7	36.38 ⁴⁵	5.99 ⁸	20.31 ¹⁴²	30.54 ¹⁹	19.07 ¹²	55.21 ³³
8	35.93 ⁴⁶	6.07 ⁵	18.89 ¹⁴⁴	30.73 ¹⁷	18.95 ¹³	55.54 ³¹
9	35.47 ⁴⁵	6.12 ³	17.45 ¹⁴⁴	30.90 ¹⁵	18.82 ¹³	55.85 ³⁰
10	35.02 ⁴⁴	6.15 ¹	16.01 ¹⁴¹	31.05 ¹⁴	18.69 ¹²	56.15 ²⁷
11	34.58 ⁴¹	6.16 ¹	14.60 ¹³⁵	31.19 ¹³	18.57 ¹³	56.42 ²⁶
12	34.17 ⁴⁰	6.17 ²	13.25 ¹²⁹	31.32 ¹²	18.44 ¹³	56.68 ²⁴
13	33.77 ³⁸	6.19 ²	11.96 ¹²⁴	31.44 ¹²	18.31 ¹¹	56.92 ²⁵
14	33.39	6.21	10.72	31.56	18.20	57.17
U. K.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
U. K.	- 0°.36 cos φ		- 1°.23 cos φ		- 0°.16 cos φ	

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 37'	19 ^h 11 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Sept. 14	33.39 ³⁸	6.21 ³	70.72 ¹²²	31.56 ¹³	18.20 ¹⁰	57.17 ²⁶
15	33.01 ³⁹	6.24 ⁵	69.50 ¹²⁰	31.69 ¹⁶	18.10 ¹⁰	57.43 ²⁷
16	32.62 ³⁹	6.29 ⁶	68.30 ¹²²	31.85 ¹⁶	18.00 ¹¹	57.70 ²⁸
17	32.23 ⁴¹	6.35 ⁵	67.08 ¹²⁹	32.01 ¹⁶	17.89 ¹²	57.98 ²⁹
18	31.82 ⁴³	6.40 ⁵	65.79 ¹³⁷	32.17 ¹⁷	17.77 ¹¹	58.27 ³⁰
19	31.39 ⁴⁵	6.45 ⁵	64.42 ¹⁴⁴	32.34 ¹⁷	17.66 ¹³	58.57 ²⁹
20	30.94 ⁴⁷	6.50 ²	62.98 ¹⁴⁹	32.51 ¹⁵	17.53 ¹⁴	58.86 ²⁹
21	30.47 ⁴⁸	6.52 ¹	61.49 ¹⁵⁵	32.66 ¹³	17.39 ¹⁴	59.15 ²⁹
22	29.99 ⁴⁶	6.53 ²	59.94 ¹⁵⁶	32.79 ¹⁰	17.25 ¹⁶	59.44 ²⁶
23	29.53 ⁴⁶	6.51 ⁴	58.38 ¹⁵⁵	32.89 ⁹	17.09 ¹⁶	59.70 ²⁴
24	29.07 ⁴⁶	6.47 ⁵	56.83 ¹⁵³	32.98 ⁷	16.93 ¹⁵	59.94 ²²
25	28.61 ⁴³	6.42 ⁶	55.30 ¹⁴⁷	33.05 ⁷	16.78 ¹⁵	60.16 ²¹
26	28.18 ⁴⁰	6.36 ⁵	53.83 ¹⁴²	33.12 ⁶	16.63 ¹⁴	60.37 ²¹
27	27.78 ⁴¹	6.31 ⁵	52.41 ¹³⁷	33.18 ⁷	16.49 ¹⁵	60.58 ²¹
28	27.37 ⁴⁰	6.26 ³	51.04 ¹³⁴	33.25 ⁸	16.34 ¹⁴	60.79 ²¹
29	26.97 ⁴¹	6.23 ²	49.70 ¹³⁵	33.33 ⁹	16.20 ¹³	61.00 ²³
30	26.56 ⁴¹	6.21 ⁰	48.35 ¹³⁸	33.42 ¹¹	16.07 ¹⁴	61.23 ²⁴
Okt. 1	26.15 ⁴³	6.21 ¹	46.97 ¹⁴³	33.53 ¹¹	15.93 ¹³	61.47 ²⁵
2	25.72 ⁴⁴	6.20 ²	45.54 ¹⁴⁸	33.64 ¹¹	15.80 ¹⁵	61.72 ²⁵
3	25.28 ⁴⁷	6.18 ³	44.06 ¹⁵⁵	33.75 ¹⁰	15.65 ¹⁶	61.97 ²⁵
4	24.81 ⁴⁷	6.15 ⁵	42.51 ¹⁶⁰	33.85 ⁸	15.49 ¹⁶	62.22 ²⁵
5	24.34 ⁴⁷	6.10 ⁷	40.91 ¹⁶³	33.93 ⁵	15.33 ¹⁷	62.47 ²²
6	23.87 ⁴⁶	6.03 ⁹	39.28 ¹⁶³	33.98 ⁴	15.16 ¹⁷	62.69 ²⁰
7	23.41 ⁴⁵	5.94 ¹¹	37.65 ¹⁵⁹	34.02 ²	14.99 ¹⁸	62.89 ¹⁷
8	22.96 ⁴²	5.83 ¹²	36.06 ¹⁵⁴	34.04 ⁰	14.81 ¹⁷	63.06 ¹⁶
9	22.54 ⁴¹	5.71 ¹³	34.52 ¹⁴⁷	34.04 ¹	14.64 ¹⁷	63.22 ¹⁵
10	22.13 ³⁹	5.58 ¹²	33.05 ¹⁴¹	34.03 ¹	14.47 ¹⁵	63.37 ¹³
11	21.74 ³⁷	5.46 ¹¹	31.64 ¹³⁵	34.02 ⁰	14.32 ¹⁵	63.50 ¹⁴
12	21.37 ³⁸	5.35 ⁹	30.29 ¹³⁴	34.02 ¹	14.17 ¹⁴	63.64 ¹⁵
13	20.99 ³⁷	5.26 ⁹	28.95 ¹³⁴	34.03 ²	14.03 ¹⁵	63.79 ¹⁶
14	20.62 ³⁹	5.17 ⁷	27.61 ¹³⁸	34.05 ³	13.88 ¹⁵	63.95 ¹⁷
15	20.23 ⁴¹	5.10 ⁸	26.23 ¹⁴³	34.08 ⁴	13.73 ¹⁶	64.12 ¹⁸
16	19.82 ⁴³	5.02 ⁹	24.80 ¹⁵⁰	34.12 ⁴	13.57 ¹⁶	64.30 ¹⁸
17	19.39 ⁴³	4.93 ⁹	23.30 ¹⁵⁷	34.16 ²	13.41 ¹⁶	64.48 ¹⁸
18	18.96 ⁴⁵	4.84 ¹²	21.73 ¹⁶⁰	34.18 ¹	13.25 ¹⁸	64.66 ¹⁷
19	18.51 ⁴⁵	4.72 ¹⁵	20.13 ¹⁶³	34.19 ²	13.07 ¹⁹	64.83 ¹⁵
20	18.06 ⁴³	4.57 ¹⁷	18.50 ¹⁶³	34.17 ⁵	12.88 ¹⁹	64.98 ¹³
21	17.63	4.40	16.87	34.12	12.69	65.11

U. K. + 0°.36 cos φ
 U. K. -- 0.36 cos φ

+ 1°.23 cos φ
 -- 1.23 cos φ

+ 0°.16 cos φ
 - 0.16 cos φ

Obere Kulmination.

1909	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 10 ^m	+89° 0'	20 ^h 49 ^m	+82° 12'
Okt. 21	17.63 ⁴²	64.40 ¹⁸	76.87 ¹⁵⁹	34.12 ⁶	12.69 ¹⁹	5.11 ¹¹
22	17.21 ⁴⁰	64.22 ¹⁹	75.28 ¹⁵³	34.06 ⁷	12.50 ¹⁹	5.22 ¹⁰
23	16.81 ³⁸	64.03 ¹⁹	73.75 ¹⁴⁷	33.99 ⁷	12.31 ¹⁸	5.32 ⁸
24	16.43 ³⁶	63.84 ¹⁸	72.28 ¹⁴¹	33.92 ⁷	12.13 ¹⁷	5.40 ⁸
25	16.07 ³⁶	63.66 ¹⁸	70.87 ¹³⁶	33.85 ⁷	11.96 ¹⁶	5.48 ⁸
26	15.71 ³⁶	63.48 ¹⁶	69.51 ¹³⁵	33.78 ⁵	11.80 ¹⁶	5.56 ⁹
27	15.35 ³⁶	63.32 ¹⁵	68.16 ¹³⁷	33.73 ⁴	11.64 ¹⁶	5.65 ¹⁰
28	14.99 ³⁷	63.17 ¹⁴	66.79 ¹³⁹	33.69 ⁴	11.48 ¹⁶	5.75 ¹¹
29	14.62 ³⁹	63.03 ¹⁴	65.40 ¹⁴⁴	33.65 ³	11.32 ¹⁷	5.86 ¹²
30	14.23 ⁴⁰	62.89 ¹⁶	63.96 ¹⁵¹	33.62 ⁴	11.15 ¹⁷	5.98 ¹²
31	13.83 ⁴¹	62.73 ¹⁷	62.45 ¹⁵⁵	33.58 ⁵	10.98 ¹⁸	6.10 ¹¹
Nov. 1	13.42 ⁴¹	62.56 ¹⁹	60.90 ¹⁵⁷	33.53 ⁷	10.80 ²⁰	6.21 ⁸
2	13.01 ⁴⁰	62.37 ²²	59.33 ¹⁵⁷	33.46 ⁹	10.60 ¹⁹	6.29 ⁷
3	12.61 ³⁹	62.15 ²⁴	57.76 ¹⁵⁴	33.37 ¹²	10.41 ¹⁹	6.36 ⁵
4	12.22 ³⁶	61.91 ²⁵	56.22 ¹⁴⁸	33.25 ¹⁴	10.22 ¹⁹	6.41 ³
5	11.86 ³⁴	61.66 ²⁶	54.74 ¹⁴¹	33.11 ¹⁵	10.03 ¹⁹	6.44 ^c
6	11.52 ³²	61.40 ²⁵	53.33 ¹³⁴	32.96 ¹⁵	9.84 ¹⁷	6.44 ^o
7	11.20 ²⁹	61.15 ²⁵	51.99 ¹²⁸	32.81 ¹⁴	9.67 ¹⁷	6.44 ^o
8	10.91 ³⁰	60.90 ²³	50.71 ¹²²	32.67 ¹⁴	9.50 ¹⁶	6.44 ¹
9	10.61 ²⁹	60.67 ²¹	49.49 ¹²¹	32.53 ¹²	9.34 ¹⁶	6.43 ¹
10	10.32 ³⁰	60.46 ²¹	48.28 ¹²³	32.41 ¹¹	9.18 ¹⁶	6.44 ²
11	10.02 ³¹	60.25 ²⁰	47.05 ¹²⁶	32.30 ¹⁰	9.02 ¹⁵	6.46 ³
12	9.71 ³²	60.05 ²⁰	45.79 ¹³¹	32.20 ¹¹	8.87 ¹⁷	6.49 ⁴
13	9.39 ³³	59.85 ²²	44.48 ¹³⁷	32.09 ¹¹	8.70 ¹⁷	6.53 ³
14	9.06 ³⁴	59.63 ²⁴	43.11 ¹⁴²	31.98 ¹³	8.53 ¹⁸	6.56 ²
15	8.72 ³⁵	59.39 ²⁶	41.69 ¹⁴⁵	31.85 ¹⁵	8.35 ¹⁹	6.58 ^o
16	8.37 ³⁴	59.13 ²⁸	40.24 ¹⁴³	31.70 ¹⁸	8.16 ²⁰	6.58 ¹
17	8.03 ³³	58.85 ³⁰	38.81 ¹³⁹	31.52 ²⁰	7.96 ¹⁹	6.57 ⁴
18	7.70 ³⁰	58.55 ³¹	37.42 ¹³⁴	31.32 ²⁰	7.77 ¹⁹	6.53 ⁶
19	7.40 ²⁸	58.24 ³¹	36.08 ¹²⁷	31.12 ²²	7.58 ¹⁸	6.47 ⁸
20	7.12 ²⁵	57.93 ³⁰	34.81 ¹²⁰	30.90 ²¹	7.40 ¹⁷	6.39 ⁸
21	6.87 ²⁵	57.63 ²⁹	33.61 ¹¹⁴	30.69 ²¹	7.23 ¹⁷	6.31 ⁸
22	6.62 ²³	57.34 ²⁷	32.47 ¹¹¹	30.48 ²⁰	7.06 ¹⁶	6.23 ⁻
23	6.39 ²⁴	57.07 ²⁷	31.36 ¹⁰⁸	30.28 ¹⁸	6.90 ¹⁵	6.16 ⁶
24	6.15 ²⁴	56.80 ²⁶	30.28 ¹¹⁰	30.10 ¹⁷	6.75 ¹⁵	6.10 ⁵
25	5.91 ²⁶	56.54 ²⁵	29.18 ¹¹⁴	29.93 ¹⁶	6.60 ¹⁶	6.05 ⁴
26	5.65 ²⁶	56.29 ²⁶	28.04 ¹¹⁹	29.77 ¹⁷	6.44 ¹⁷	6.01 ⁴
27	5.39	56.03	26.85	29.60	6.27	5.97
O. K.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
U. K.	-- 0.36 cos φ		- 1.23 cos φ		- 0.16 cos φ	

Obere Kulmination.

1909	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .8.		76 Draconis. 6 ^m .0.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 1 ^m	+86° 36'	19 ^h 9 ^m	+89° 0'	20 ^h 49 ^m	+82° 11'
Nov. 27	5.39	56.03	86.85	29.60	6.27	65.97
28	5.12	55.76	85.62	29.41	6.10	65.92
29	4.84	55.47	84.36	29.21	5.93	65.86
30	4.57	55.15	83.11	28.99	5.75	65.78
Dez. 1	4.32	54.81	81.88	28.75	5.57	65.68
2	4.09	54.47	80.71	28.49	5.39	65.55
3	3.88	54.12	79.62	28.21	5.22	65.40
4	3.70	53.76	78.61	27.93	5.05	65.24
5	3.54	53.42	77.69	27.66	4.90	65.08
6	3.39	53.09	76.84	27.39	4.75	64.92
7	3.26	52.78	76.01	27.14	4.61	64.76
8	3.12	52.48	75.19	26.89	4.48	64.62
9	2.97	52.19	74.36	26.66	4.35	64.48
10	2.80	51.90	73.49	26.43	4.21	64.36
11	2.63	51.60	72.57	26.20	4.07	64.24
12	2.45	51.28	71.60	25.95	3.91	64.10
13	2.27	50.95	70.61	25.70	3.75	63.96
14	2.09	50.60	69.62	25.42	3.60	63.80
15	1.93	50.23	68.66	25.12	3.44	63.61
16	1.80	49.86	67.77	24.79	3.28	63.40
17	1.69	49.48	66.96	24.46	3.13	63.18
18	1.60	49.11	66.22	24.14	2.99	62.94
19	1.53	48.75	65.55	23.82	2.86	62.71
20	1.46	48.39	64.94	23.51	2.74	62.48
21	1.40	48.06	64.37	23.22	2.63	62.27
22	1.35	47.74	63.79	22.94	2.51	62.06
23	1.28	47.44	63.19	22.67	2.40	61.87
24	1.11	46.81	62.56	22.40	2.27	61.69
25	1.02	46.47	61.90	22.13	2.15	61.50
26	0.94	46.13	61.20	21.84	2.02	61.30
27	0.86	45.76	60.49	21.54	1.89	61.09
28	0.81	45.37	59.82	21.22	1.75	60.86
29	0.78	44.99	59.20	20.87	1.62	60.60
30	0.79	44.60	58.65	20.51	1.50	60.32
31	0.81	44.22	58.20	20.14	1.38	60.03
32	0.85	43.85	57.83	19.79	1.28	59.74
O. K.	+ 0°.36	cos φ	+ 1°.23	cos φ	+ 0°.16	cos φ
U. K.	- 0°.36	cos φ	- 1°.23	cos φ	- 0°.16	cos φ

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ι Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 14'	9 ^h 10 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Jan. 0	39.33 ²⁸	11.67	18.85 ¹⁵	41.94 ³⁵	17.08 ²⁸	18.82 ⁸
1	39.05 ³⁰	11.72	19.00 ¹⁴	42.29 ³⁵	17.36 ²⁸	18.90 ⁸
2	38.75 ²⁹	11.75	19.14 ¹¹	42.65 ³⁷	17.64 ²⁷	18.98 ¹¹
3	38.46 ²⁹	11.77	19.25 ¹¹	43.02 ³⁷	17.91 ²⁶	19.09 ¹⁴
4	38.17 ²⁹	11.75	19.36 ⁸	43.39 ³⁷	18.17 ²⁶	19.23 ¹⁵
5	37.88 ²⁷	11.72	19.44 ⁷	43.76 ³⁵	18.43 ²³	19.38 ¹⁶
6	37.61 ²⁵	11.68	19.51 ⁷	44.11 ³³	18.66 ²³	19.54 ¹⁵
7	37.36 ²⁵	11.64	19.58 ⁷	44.44 ³²	18.89 ²¹	19.69 ¹⁴
8	37.11 ²³	11.59	19.65 ⁶	44.76 ³²	19.10 ²¹	19.83 ¹³
9	36.88 ²⁴	11.55	19.71 ⁸	45.08 ³⁰	19.31 ²²	19.96 ¹²
10	36.64 ²⁴	11.53	19.79 ⁹	45.38 ³¹	19.53 ²²	20.08 ¹¹
11	36.40 ²⁵	11.51	19.88 ⁹	45.69 ³³	19.75 ²⁴	20.19 ¹²
12	36.15 ²⁷	11.50	19.97 ¹¹	46.02 ³⁴	19.99 ²⁵	20.31 ¹²
13	35.88 ²⁸	11.49	20.08 ⁹	46.36 ³⁶	20.24 ²⁶	20.43 ¹⁴
14	35.60 ²⁹	11.47	20.17 ⁹	46.72 ³⁸	20.50 ²⁶	20.57 ¹⁷
15	35.31 ²⁹	11.43	20.26 ⁷	47.10 ³⁹	20.76 ²⁶	20.74 ¹⁸
16	35.02 ³⁰	11.37	20.33 ⁵	47.49 ³⁹	21.02 ²⁵	20.92 ²¹
17	34.72 ²⁹	11.29	20.38 ³	47.88 ⁴¹	21.27 ²⁴	21.13 ²¹
18	34.43 ²⁸	11.19	20.41 ²	48.29 ⁴⁰	21.51 ²⁴	21.34 ²³
19	34.15 ²⁶	11.07	20.43 ⁰	48.69 ³⁸	21.75 ²²	21.57 ²⁴
20	33.89 ²⁶	10.93	20.43 ⁰	49.07 ³⁶	21.97 ²¹	21.81 ²⁴
21	33.63 ²⁴	10.79	20.43 ¹	49.43 ³⁵	22.18 ²⁰	22.05 ²³
22	33.39 ²⁴	10.65	20.42 ⁰	49.78 ³⁴	22.38 ¹⁹	22.28 ²²
23	33.15 ²³	10.52	20.42 ¹	50.12 ³⁴	22.57 ²⁰	22.50 ²¹
24	32.92 ²⁴	10.41	20.43 ²	50.46 ³⁴	22.77 ²¹	22.71 ²⁰
25	32.68 ²⁵	10.29	20.45 ²	50.80 ³⁵	22.98 ²²	22.91 ²⁰
26	32.43 ²⁶	10.19	20.47 ³	51.15 ³⁸	23.20 ²³	23.11 ²¹
27	32.17 ²⁸	10.09	20.50 ²	51.53 ³⁹	23.43 ²³	23.32 ²²
28	31.89 ²⁸	9.98	20.52 ¹	51.92 ⁴⁰	23.66 ²³	23.54 ²⁴
29	31.61 ²⁹	9.85	20.53 ¹	52.32 ⁴²	23.89 ²⁴	23.78 ²⁶
30	31.32 ²⁹	9.70	20.52 ²	52.74 ⁴¹	24.13 ²³	24.04 ²⁸
31	31.03 ²⁷	9.53	20.50 ³	53.15 ⁴¹	24.36 ²¹	24.32 ²⁹
Febr. 1	30.76 ²⁷	9.35	20.47 ⁵	53.56 ³⁹	24.57 ²⁰	24.61 ²⁹
2	30.49 ²⁵	9.15	20.42 ⁷	53.95 ³⁸	24.77 ¹⁹	24.90 ³⁰
3	30.24 ²³	8.93	20.35 ⁷	54.33 ³⁵	24.96 ¹⁷	25.20 ³⁰
4	30.01 ²³	8.72	20.28 ⁶	54.68 ³⁵	25.13 ¹⁶	25.50 ²⁸
5	29.78 ²¹	8.51	20.22 ⁶	55.03 ³³	25.29 ¹⁷	25.78 ²⁶
6	29.57	8.32	20.16	55.36	25.46	26.04
O. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0°.26 cos φ		- 0°.26 cos φ		- 0°.23 cos φ	

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		♁ Octantis. 6 ^m - 5 ^m .		♃ Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 10 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Febr. 6	29.57	68.32	20.16	55.36	25.46	26.04
7	29.36	68.14	20.11	55.70	25.63	26.30
8	29.14	67.97	20.07	56.04	25.80	26.54
9	28.91	67.80	20.04	56.40	25.98	26.80
10	28.67	67.63	20.01	56.77	26.18	27.06
11	28.41	67.45	19.97	57.15	26.38	27.34
12	28.16	67.25	19.91	57.54	26.58	27.65
13	27.90	67.02	19.84	57.95	26.77	27.98
14	27.64	66.78	19.75	58.35	26.96	28.33
15	27.39	66.51	19.64	58.76	27.14	28.68
16	27.15	66.24	19.52	59.15	27.29	29.04
17	26.94	65.95	19.40	59.51	27.43	29.39
18	26.73	65.66	19.27	59.86	27.57	29.74
19	26.54	65.38	19.13	60.20	27.70	30.08
20	26.35	65.11	19.01	60.52	27.82	30.40
21	26.17	64.86	18.90	60.85	27.95	30.71
22	25.97	64.62	18.80	61.19	28.09	31.03
23	25.76	64.38	18.70	61.54	28.24	31.34
24	25.55	64.13	18.60	61.89	28.40	31.65
25	25.33	63.88	18.50	62.27	28.56	31.99
26	25.10	63.60	18.38	62.65	28.72	32.35
27	24.87	63.31	18.24	63.04	28.88	32.71
28	24.65	63.00	18.10	63.42	29.02	33.10
März 1	24.45	62.68	17.93	63.79	29.14	33.49
2	24.25	62.35	17.75	64.14	29.25	33.88
3	24.08	62.02	17.56	64.47	29.35	34.26
4	23.92	61.68	17.38	64.78	29.44	34.63
5	23.78	61.36	17.20	65.08	29.52	34.99
6	23.64	61.06	17.03	65.37	29.59	35.34
7	23.49	60.77	16.87	65.66	29.68	35.67
8	23.34	60.48	16.73	65.95	29.78	36.00
9	23.17	60.19	16.59	66.26	29.89	36.33
10	23.00	59.90	16.44	66.58	30.00	36.67
11	22.82	59.60	16.29	66.92	30.12	37.03
12	22.63	59.28	16.12	67.26	30.23	37.41
13	22.45	58.94	15.93	67.61	30.33	37.81
14	22.27	58.58	15.72	67.94	30.42	38.23
15	22.11	58.20	15.50	68.27	30.49	38.65
U. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0°.26 cos φ		- 0°.26 cos φ		+ 0°.23 cos φ	

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ι Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 10 ^m	-85° 18'	12 ^h 45 ^m	-84° 37'
März 15	22.11	58.20	15.50	8.27	30.49	38.65
16	21.97 ¹⁴	57.82 ³⁸	15.26 ²⁴	8.58 ³¹	30.55 ⁶	39.06 ⁴¹
17	21.85 ¹²	57.44 ³⁸	15.03 ²³	8.87 ²⁹	30.60 ⁵	39.47 ⁴¹
18	21.74 ¹¹	57.06 ³⁸	14.80 ²³	9.14 ²⁷	30.64 ⁴	39.86 ³⁹
19	21.64 ¹⁰	56.70 ³⁶	14.57 ²³	9.39 ²⁵	30.67 ³	40.24 ³⁸
20	21.54 ¹⁰	56.35 ³⁵	14.35 ²²	9.65 ²⁶	30.71 ⁴	40.61 ³⁷
21	21.43 ¹¹	56.01 ³⁴	14.15 ²⁰	9.91 ²⁶	30.76 ⁵	40.97 ³⁶
22	21.31 ¹²	55.68 ³³	14.15 ¹⁹	9.91 ²⁶	30.76 ⁵	40.97 ³⁵
23	21.31 ¹²	55.68 ³³	13.96 ¹⁹	10.17 ²⁷	30.81 ⁷	41.32 ³⁶
24	21.19 ¹³	55.35 ³³	13.77 ²⁰	10.44 ²⁹	30.88 ⁶	41.68 ³⁷
25	21.06 ¹⁴	55.02 ³⁵	13.57 ²¹	10.73 ³⁰	30.94 ⁷	42.05 ³⁸
26	20.92 ¹³	54.67 ³⁶	13.36 ²²	11.03 ²⁹	31.01 ⁷	42.43 ⁴⁰
27	20.79 ¹³	54.31 ³⁹	13.14 ²³	11.32 ³⁰	31.08 ⁵	42.83 ⁴¹
28	20.66 ¹²	53.92 ³⁹	12.91 ²⁴	11.62 ²⁹	31.13 ⁴	43.24 ⁴²
29	20.54 ¹¹	53.53 ⁴⁰	12.67 ²⁷	11.91 ²⁷	31.17 ²	43.66 ⁴²
30	20.43 ⁸	53.13 ⁴¹	12.40 ²⁷	12.18 ²⁴	31.19 ⁰	44.08 ⁴¹
31	20.35 ⁷	52.72 ⁴¹	12.13 ²⁶	12.42 ²²	31.19 ⁰	44.49 ⁴⁰
April 1	20.28 ⁵	52.31 ³⁸	11.87 ²⁵	12.64 ²¹	31.19 ¹	44.89 ³⁸
2	20.23 ⁵	51.93 ³⁸	11.62 ²⁵	12.85 ¹⁹	31.18 ²	45.27 ³⁷
3	20.18 ⁴	51.55 ³⁵	11.37 ²⁵	13.04 ¹⁹	31.16 ⁰	45.64 ³⁵
4	20.14 ⁵	51.20 ³⁵	11.12 ²³	13.23 ¹⁹	31.16 ⁰	45.99 ³⁵
5	20.09 ⁶	50.85 ³⁴	10.89 ²²	13.42 ²¹	31.16 ⁰	46.34 ³⁴
6	20.03 ⁷	50.51 ³³	10.67 ²³	13.63 ²²	31.16 ²	46.68 ³⁵
7	19.96 ⁸	50.18 ³⁵	10.44 ²²	13.85 ²²	31.18 ²	47.03 ³⁶
8	19.88 ⁸	49.83 ³⁶	10.22 ²⁴	14.07 ²⁴	31.20 ²	47.39 ³⁸
9	19.80 ⁸	49.47 ³⁸	9.98 ²⁵	14.31 ²⁴	31.22 ²	47.77 ³⁹
10	19.72 ⁷	49.09 ⁴⁰	9.73 ²⁶	14.55 ²³	31.24 ²	48.16 ⁴¹
11	19.65 ⁶	48.69 ⁴¹	9.47 ²⁸	14.78 ²²	31.23 ¹	48.57 ⁴²
12	19.59 ⁵	48.28 ⁴²	9.19 ²⁹	15.00 ²¹	31.22 ¹	48.99 ⁴²
13	19.54 ³	47.86 ⁴²	8.90 ²⁹	15.21 ¹⁸	31.19 ³	49.41 ⁴²
14	19.51 ¹	47.44 ⁴²	8.59 ³¹	15.39 ¹⁷	31.14 ⁵	49.81 ⁴⁰
15	19.50 ¹	47.02 ⁴⁰	8.29 ³⁰	15.56 ¹⁷	31.14 ⁵	49.81 ³⁸
16	19.51 ¹	46.62 ³⁹	8.00 ²⁹	15.70 ¹⁴	31.09 ⁶	50.19 ³⁸
17	19.52 ⁰	46.23 ³⁷	7.72 ²⁸	15.83 ¹³	31.03 ⁶	50.57 ³⁵
18	19.52 ¹	45.86 ³⁶	7.46 ²⁶	15.97 ¹⁴	30.97 ⁶	50.92 ³⁵
19	19.51 ¹	45.50 ³⁶	7.21 ²⁵	16.11 ¹⁶	30.91 ⁴	51.27 ³³
20	19.50 ²	45.14 ³⁵	6.96 ²⁴	16.27 ¹⁶	30.87 ⁴	51.60 ³⁴
	19.48 ²	44.79 ³⁷	6.72 ²⁴	16.43 ¹⁶	30.83 ³	51.94 ³⁴
	19.46	44.42			30.80	52.28
O. K.	+ 0°.26	cos φ	+ 0°.26	cos φ	+ 0°.23	cos φ
U. K.	- 0°.26	cos φ	- 0°.26	cos φ	- 0°.23	cos φ

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m —5 ^m .		ι Octantis. 6 ^m —5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	—85° 13'	9 ^h 9 ^m	—85° 18'	12 ^h 45 ^m	—84° 37'
April 20	19.46 ⁴	44.42 ³⁷	66.72 ²⁵	16.43 ¹⁷	30.80 ²	52.28 ³⁶
21	19.42 ²	44.05 ⁴⁰	66.47 ²⁷	16.60 ¹⁸	30.78 ²	52.64 ³⁷
22	19.40 ¹	43.65 ⁴⁰	66.20 ²⁸	16.78 ¹⁷	30.76 ⁴	53.01 ³⁸
23	19.39 ⁰	43.25 ⁴¹	65.92 ²⁹	16.95 ¹⁶	30.72 ⁴	53.39 ³⁹
24	19.39 ²	42.84 ⁴¹	65.63 ³⁰	17.11 ¹⁵	30.67 ⁵	53.78 ³⁹
25	19.41 ⁴	42.43 ⁴²	65.33 ³⁰	17.26 ¹³	30.61 ⁶	54.17 ³⁹
26	19.45 ⁵	42.01 ⁴⁰	65.03 ³²	17.39 ¹⁰	30.53 ⁸	54.55 ³⁸
27	19.50 ⁶	41.61 ³⁸	64.71 ³⁰	17.49 ⁸	30.44 ⁹	54.92 ³⁷
28	19.56 ⁶	41.23 ³⁶	64.41 ²⁹	17.57 ⁷	30.44 ¹⁰	54.92 ³⁵
29	19.62 ⁷	40.87 ³⁵	64.12 ²⁹	17.64 ⁶	30.34 ¹¹	55.27 ³³
30	19.69 ⁵	40.52 ³³	63.83 ²⁷	17.70 ⁵	30.23 ¹⁰	55.60 ³¹
Mai 1	19.74 ⁵	40.19 ³⁴	63.56 ²⁵	17.75 ⁷	30.13 ¹⁰	55.91 ³⁰
2	19.79 ³	39.85 ³³	63.31 ²⁴	17.82 ⁸	30.03 ⁹	56.21 ³⁰
3	19.82 ⁴	39.52 ³⁵	63.07 ²⁵	17.90 ⁸	29.94 ⁸	56.51 ²⁹
4	19.86 ³	39.17 ³⁶	62.82 ²⁶	17.98 ¹⁰	29.86 ⁷	56.80 ³¹
5	19.89 ³	38.81 ³⁸	62.56 ²⁸	18.08 ¹⁰	29.79 ⁷	57.11 ³²
6	19.92 ⁴	38.43 ³⁸	62.28 ²⁸	18.18 ¹⁰	29.72 ⁷	57.43 ³⁴
7	19.96 ⁶	38.05 ⁴⁰	62.00 ³⁰	18.28 ⁹	29.65 ⁸	57.77 ³⁵
8	20.02 ⁷	37.65 ⁴⁰	61.70 ³¹	18.37 ⁷	29.57 ⁹	58.12 ³⁴
9	20.09 ¹⁰	37.25 ⁴⁰	61.39 ³²	18.44 ⁴	29.48 ¹²	58.46 ³⁵
10	20.19 ¹¹	36.85 ³⁸	61.07 ³²	18.48 ³	29.36 ¹²	58.81 ³⁵
11	20.30 ¹¹	36.47 ³⁷	60.75 ³¹	18.51 ²	29.24 ¹⁴	59.16 ³³
12	20.41 ¹²	36.10 ³⁵	60.44 ²⁹	18.53 ⁰	29.10 ¹⁴	59.49 ³²
13	20.53 ¹¹	35.75 ³³	60.15 ²⁹	18.53 ¹	28.96 ¹⁵	59.81 ²⁹
14	20.64 ¹¹	35.42 ³²	59.86 ²⁷	18.52 ¹	28.81 ¹³	60.10 ²⁸
15	20.75 ⁹	35.10 ³²	59.59 ²⁶	18.51 ¹	28.68 ¹³	60.38 ²⁶
16	20.84 ⁸	34.78 ³³	59.33 ²⁶	18.51 ¹	28.55 ¹²	60.64 ²⁶
17	20.92 ⁷	34.45 ³²	59.07 ²⁵	18.52 ¹	28.43 ¹²	60.90 ²⁶
18	20.99 ⁸	34.13 ³⁴	58.82 ²⁶	18.53 ³	28.31 ¹⁰	61.16 ²⁷
19	21.07 ¹⁰	33.79 ³⁶	58.56 ²⁸	18.56 ³	28.21 ¹¹	61.43 ²⁸
20	21.17 ¹⁰	33.43 ³⁶	58.28 ²⁸	18.59 ³	28.10 ¹²	61.71 ³⁰
21	21.27 ¹¹	33.07 ³⁶	58.00 ³⁰	18.62 ³	28.10 ¹²	62.01 ³⁰
22	21.38 ¹⁴	32.71 ³⁷	57.70 ³¹	18.65 ¹	27.98 ¹²	62.31 ³⁰
23	21.52 ¹⁶	32.34 ³⁵	57.39 ³⁰	18.66 ¹	27.86 ¹³	62.61 ³⁰
24	21.68 ¹⁷	31.99 ³³	57.09 ³⁰	18.65 ¹	27.73 ¹⁶	62.91 ³⁰
25	21.85 ¹⁷	31.66 ³²	56.79 ²⁹	18.62 ³	27.57 ¹⁷	63.20 ²⁹
26	22.02 ¹⁷	31.34 ²⁹	56.50 ²⁷	18.62 ⁶	27.40 ¹⁸	63.47 ²⁷
27	22.19	31.05	56.23	18.56 ⁷	27.22 ¹⁸	63.72 ²⁵
				18.49 ⁸	27.04 ¹⁸	63.94 ²²
				18.41	26.86	63.94

O. K. + 0°.26 cos φ
 U. K. — 0.26 cos φ

+ 0°.26 cos φ
 — 0.26 cos φ

+ 0°.23 cos φ
 — 0.23 cos φ

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ι Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 9 ^m	-85° 18'	12 ^h 45 ^m	-84° 38'
Mai 27	22.19	31.05	56.23	18.41	26.86	3.94
28	22.36 ¹⁷	30.77 ²⁸	55.97 ²⁶	18.32 ⁹	26.68 ¹⁸	4.14 ²⁰
29	22.51 ¹⁵	30.50 ²⁷	55.72 ²⁵	18.23 ⁹	26.52 ¹⁶	4.34 ²⁰
30	22.65 ¹⁴	30.23 ²⁷	55.48 ²⁴	18.15 ⁸	26.37 ¹⁵	4.53 ¹⁹
31	22.78 ¹³	29.96 ²⁷	55.25 ²³	18.09 ⁶	26.23 ¹⁴	4.73 ²⁰
Juni 1	22.91 ¹³	29.68 ²⁸	55.02 ²³	18.04 ⁵	26.08 ¹⁵	4.94 ²¹
2	23.04 ¹³	29.39 ²⁹	54.77 ²⁵	17.99 ⁵	25.94 ¹⁴	5.16 ²²
3	23.19 ¹⁵	29.08 ³¹	54.51 ²⁶	17.95 ⁴	25.79 ¹⁵	5.39 ²³
4	23.34 ¹⁵	28.76 ³²	54.24 ²⁷	17.90 ⁵	25.63 ¹⁶	5.63 ²⁴
5	23.51 ¹⁷	28.43 ³³	54.00 ²⁸	17.90 ⁶	25.63 ¹⁷	5.63 ²⁵
6	23.51 ¹⁸	28.43 ³²	53.96 ²⁹	17.84 ⁹	25.46 ¹⁹	5.88 ²³
7	23.69 ²⁰	28.11 ³⁰	53.67 ²⁹	17.75 ¹¹	25.27 ²⁰	6.11 ²³
8	23.89 ²¹	27.81 ²⁹	53.38 ²⁸	17.64 ¹³	25.07 ²¹	6.34 ²⁰
9	24.10 ²²	27.52 ²⁷	53.10 ²⁷	17.51 ¹⁴	24.86 ²¹	6.54 ¹⁹
10	24.32 ²¹	27.25 ²⁴	52.83 ²⁵	17.37 ¹⁵	24.65 ²⁰	6.73 ¹⁷
11	24.53 ²⁰	27.01 ²³	52.58 ²⁵	17.22 ¹⁵	24.45 ²⁰	6.90 ¹⁵
12	24.73 ¹⁹	26.78 ²³	52.33 ²³	17.07 ¹⁵	24.25 ¹⁹	7.05 ¹⁴
13	24.92 ¹⁸	26.55 ²²	52.10 ²¹	16.92 ¹³	24.06 ¹⁷	7.19 ¹⁴
14	25.10 ¹⁷	26.33 ²³	51.89 ²¹	16.79 ¹³	23.89 ¹⁷	7.33 ¹⁴
15	25.27 ¹⁷	26.10 ²⁵	51.68 ²²	16.66 ¹¹	23.72 ¹⁶	7.47 ¹⁶
16	25.44 ¹⁷	25.85 ²⁵	51.46 ²³	16.55 ¹¹	23.56 ¹⁷	7.63 ¹⁶
17	25.61 ¹⁸	25.60 ²⁶	51.23 ²³	16.44 ¹¹	23.39 ¹⁸	7.79 ¹⁸
18	25.79 ²⁰	25.34 ²⁶	51.00 ²⁴	16.33 ¹²	23.21 ¹⁹	7.97 ¹⁷
19	25.99 ²²	25.08 ²⁵	50.76 ²⁶	16.21 ¹⁴	23.02 ²⁰	8.14 ¹⁷
20	26.21 ²³	24.83 ²⁵	50.50 ²⁶	16.07 ¹⁶	22.82 ²¹	8.31 ¹⁶
21	26.44 ²⁴	24.58 ²⁴	50.24 ²⁵	15.91 ¹⁹	22.61 ²¹	8.47 ¹⁴
22	26.68 ²⁵	24.34 ²¹	49.99 ²⁴	15.72 ²⁰	22.38 ²²	8.61 ¹³
23	26.93 ²⁶	24.13 ¹⁹	49.75 ²²	15.52 ²²	22.16 ²³	8.74 ¹⁰
24	27.19 ²⁴	23.94 ¹⁷	49.53 ²¹	15.30 ²³	21.93 ²³	8.84 ⁸
25	27.43 ²³	23.77 ¹⁶	49.32 ¹⁹	15.07 ²²	21.70 ²²	8.92 ⁶
26	27.66 ²³	23.61 ¹⁵	49.13 ¹⁸	14.85 ²¹	21.48 ²⁰	8.98 ⁵
27	27.89 ²¹	23.46 ¹⁵	48.95 ¹⁸	14.64 ²⁰	21.28 ¹⁹	9.03 ⁶
28	28.10 ²⁰	23.31 ¹⁶	48.77 ¹⁸	14.44 ¹⁹	21.09 ¹⁹	9.09 ⁶
29	28.30 ²⁰	23.15 ¹⁸	48.59 ¹⁷	14.25 ¹⁸	20.90 ¹⁸	9.15 ⁷
30	28.50 ²²	22.97 ¹⁸	48.42 ¹⁸	14.07 ¹⁷	20.72 ¹⁹	9.22 ⁸
31	28.72 ²²	22.79 ¹⁹	48.24 ¹⁹	13.90 ¹⁷	20.53 ¹⁹	9.30 ¹⁰
Juli 1	28.94 ²³	22.60 ¹⁹	48.05 ²¹	13.73 ¹⁹	20.34 ²⁰	9.40 ¹⁰
2	29.17 ²⁵	22.41 ¹⁹	47.84 ²²	13.54 ²¹	20.14 ²²	9.50 ¹⁰
3	29.42	22.22	47.62	13.33	19.92	9.60

O. K. + 0°.26 cos φ

U. K. - 0°.26 cos φ

+ 0°.26 cos φ

- 0°.26 cos φ

+ 0°.23 cos φ

- 0°.23 cos φ

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ι Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 9 ^m	-85° 18'	12 ^h 45 ^m	-84° 38'
Juli 3	29.42 ²⁶	22.22 ¹⁸	47.62 ²¹	13.33 ²³	19.92 ²³	9.60 ⁸
4	29.68 ²⁶	22.04 ¹⁶	47.41 ²¹	13.10 ²⁴	19.69 ²⁴	9.68 ⁷
5	29.94 ²⁷	21.88 ¹⁵	47.20 ²⁰	12.86 ²⁶	19.45 ²⁴	9.75 ⁴
6	30.21 ²⁸	21.73 ¹²	47.00 ¹⁹	12.60 ²⁶	19.21 ²⁴	9.79 ³
7	30.49 ²⁷	21.61 ¹⁰	46.81 ¹⁷	12.34 ²⁷	18.97 ²³	9.82 ¹
8	30.76 ²⁶	21.51 ⁹	46.64 ¹⁴	12.07 ²⁷	18.74 ²²	9.83 ⁰
9	31.02 ²⁴	21.42 ⁹	46.50 ¹⁴	11.80 ²⁶	18.52 ²¹	9.83 ¹
10	31.26 ²²	21.33 ⁹	46.36 ¹³	11.54 ²⁴	18.31 ¹⁹	9.82 ¹
11	31.48 ²²	21.24 ¹⁰	46.23 ¹³	11.30 ²²	18.12 ¹⁹	9.81 ⁰
12	31.70 ²²	21.14 ¹⁰	46.10 ¹³	11.08 ²³	17.93 ¹⁹	9.81 ¹
13	31.92 ²³	21.04 ¹¹	45.97 ¹⁴	10.85 ²²	17.74 ¹⁹	9.82 ¹
14	32.15 ²³	20.93 ¹²	45.83 ¹⁵	10.63 ²²	17.55 ²⁰	9.83 ³
15	32.38 ²⁶	20.81 ¹²	45.68 ¹⁵	10.41 ²⁵	17.35 ²²	9.86 ²
16	32.64 ²⁸	20.69 ¹⁰	45.53 ¹⁶	10.16 ²⁶	17.13 ²²	9.88 ²
17	32.92 ²⁸	20.59 ¹⁰	45.37 ¹⁶	9.90 ²⁸	16.91 ²³	9.90 ¹
18	33.20 ²⁸	20.49 ⁷	45.21 ¹⁵	9.62 ²⁹	16.68 ²³	9.89 ³
19	33.48 ²⁹	20.42 ⁵	45.06 ¹³	9.33 ³²	16.45 ²⁵	9.86 ⁵
20	33.77 ²⁹	20.37 ²	44.93 ¹²	9.01 ³²	16.20 ²³	9.81 ⁸
21	34.06 ²⁸	20.35 ¹	44.81 ¹¹	8.69 ³²	15.97 ²³	9.73 ⁸
22	34.34 ²⁶	20.34 ⁰	44.70 ⁹	8.37 ³¹	15.74 ²¹	9.65 ¹⁰
23	34.60 ²⁵	20.34 ⁰	44.61 ⁸	8.06 ³⁰	15.53 ²⁰	9.55 ¹⁰
24	34.85 ²⁴	20.34 ⁰	44.53 ⁷	7.76 ²⁹	15.33 ¹⁹	9.45 ⁹
25	35.09 ²³	20.34 ¹	44.46 ⁷	7.47 ²⁶	15.14 ¹⁸	9.36 ⁸
26	35.32 ²³	20.33 ²	44.39 ⁸	7.21 ²⁶	14.96 ¹⁸	9.28 ⁸
27	35.55 ²³	20.31 ⁴	44.31 ⁹	6.95 ²⁶	14.78 ¹⁹	9.20 ⁷
28	35.78 ²⁵	20.27 ³	44.22 ¹⁰	6.69 ²⁶	14.59 ¹⁹	9.13 ⁵
29	36.03 ²⁵	20.24 ⁴	44.12 ¹⁰	6.43 ²⁸	14.40 ²¹	9.08 ⁶
30	36.28 ²⁸	20.20 ²	44.02 ¹¹	6.15 ³⁰	14.19 ²¹	9.02 ⁶
31	36.56 ²⁸	20.18 ²	43.91 ¹⁰	5.85 ³¹	13.98 ²²	8.96 ⁸
Aug. 1	36.84 ²⁹	20.16 ¹	43.81 ⁹	5.54 ³²	13.76 ²³	8.88 ⁹
2	37.13 ²⁸	20.17 ³	43.72 ⁸	5.22 ³⁴	13.53 ²²	8.79 ¹²
3	37.41 ²⁸	20.20 ⁵	43.64 ⁶	4.88 ³⁴	13.31 ²²	8.67 ¹⁴
4	37.69 ²⁶	20.25 ⁶	43.58 ⁴	4.54 ³⁴	13.09 ²¹	8.53 ¹⁶
5	37.95 ²⁴	20.31 ⁸	43.54 ³	4.20 ³³	12.88 ¹⁹	8.37 ¹⁶
6	38.19 ²³	20.39 ⁷	43.51 ¹	3.87 ³¹	12.69 ¹⁷	8.21 ¹⁵
7	38.42 ²²	20.46 ⁷	{ 43.50 ¹	{ 3.56 ²⁹	12.52 ¹⁷	8.06 ¹⁶
8	38.64 ²²	20.53 ⁷	{ 43.49 ¹	{ 3.27 ²⁸	12.35 ¹⁷	7.90 ¹⁶
			43.48	2.99		
O. K.	+ 0 ^{.26} cos φ		+ 0 ^{.26} cos φ		+ 0 ^{.23} cos φ	
U. K.	- 0 ^{.26} cos φ		- 0 ^{.26} cos φ		- 0 ^{.23} cos φ	

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ε Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 9 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Aug. 8	38.64 ²²	20.53 ⁶	43.48 ²	62.99 ²⁷	12.35 ¹⁶	67.90 ¹⁵
9	38.86 ²²	20.59 ⁶	43.46 ⁴	62.72 ²⁷	12.19 ¹⁶	67.75 ¹³
10	39.08 ²³	20.65 ⁴	43.42 ³	62.45 ²⁸	12.03 ¹⁷	67.62 ¹⁴
11	39.31 ²⁴	20.69 ⁵	43.39 ⁵	62.17 ³⁰	11.86 ¹⁷	67.48 ¹²
12	39.55 ²⁵	20.74 ⁴	43.34 ⁴	61.87 ³²	11.69 ¹⁹	67.36 ¹³
13	39.80 ²⁶	20.78 ⁶	43.30 ⁴	61.55 ³³	11.50 ²⁰	67.23 ¹⁵
14	40.06 ²⁷	20.84 ⁸	43.26 ²	61.22 ³⁵	11.30 ²⁰	67.08 ¹⁵
15	40.33 ²⁷	20.92 ¹¹	43.24 ⁰	60.87 ³⁵	11.10 ²⁰	66.93 ¹⁸
16	40.60 ²⁷	21.03 ¹³	43.24 ²	60.52 ³⁶	10.90 ²⁰	66.75 ²⁰
17	40.87 ²⁶	21.16 ¹⁴	43.26 ³	60.16 ³⁵	10.70 ¹⁸	66.55 ²³
18	41.13 ²⁴	21.30 ¹⁵	43.29 ⁵	59.81 ³⁴	10.52 ¹⁸	66.32 ²⁴
19	41.37 ²²	21.45 ¹⁶	43.34 ⁶	59.47 ³¹	10.34 ¹⁵	66.08 ²⁴
20	41.59 ²¹	21.61 ¹⁶	43.40 ⁶	59.16 ³⁰	10.19 ¹⁵	65.84 ²⁴
21	41.80 ²¹	21.77 ¹⁶	43.46 ⁵	58.86 ²⁹	10.04 ¹³	65.60 ²⁴
22	42.01 ²⁰	21.93 ¹⁴	43.51 ⁵	58.57 ²⁷	9.91 ¹³	65.36 ²¹
23	42.21 ¹⁹	22.07 ¹³	43.56 ⁴	58.30 ²⁸	9.78 ¹³	65.15 ²⁰
24	42.40 ²⁰	22.20 ¹³	43.60 ³	58.02 ²⁸	9.65 ¹⁴	64.95 ¹⁹
25	42.60 ²²	22.33 ¹¹	43.63 ²	57.74 ³⁰	9.51 ¹⁴	64.76 ¹⁸
26	42.82 ²³	22.44 ¹²	43.65 ²	57.44 ³⁰	9.37 ¹⁵	64.58 ²⁰
27	43.05 ²³	22.56 ¹³	43.67 ³	57.14 ³³	9.22 ¹⁶	64.38 ²⁰
28	43.28 ²⁴	22.69 ¹⁶	43.70 ⁵	56.81 ³³	9.06 ¹⁷	64.18 ²²
29	43.52 ²⁴	22.85 ¹⁷	43.75 ⁶	56.48 ³³	8.89 ¹⁶	63.96 ²⁴
30	43.76 ²²	23.02 ²⁰	43.81 ⁸	56.15 ³³	8.73 ¹⁶	63.72 ²⁵
31	43.98 ²²	23.22 ²¹	43.89 ⁹	55.82 ³²	8.57 ¹⁴	63.47 ²⁸
Sept. 1	44.20 ¹⁹	23.43 ²³	43.98 ¹¹	55.50 ³¹	8.43 ¹²	63.19 ²⁷
2	44.39 ¹⁹	23.66 ²²	44.09 ¹²	55.19 ²⁹	8.31 ¹¹	62.92 ²⁸
3	44.58 ¹⁷	23.88 ²¹	44.21 ¹¹	54.90 ²⁶	8.20 ¹⁰	62.64 ²⁸
4	44.75 ¹⁶	24.09 ²¹	44.32 ¹¹	54.64 ²⁶	8.10 ⁹	62.36 ²⁷
5	44.91 ¹⁴	24.30 ²¹	44.43 ¹¹	54.38 ²⁵	8.01 ⁸	62.09 ²⁵
6	45.05 ¹⁶	24.51 ¹⁹	44.54 ⁹	54.13 ²⁵	7.93 ⁹	61.84 ²⁵
7	45.21 ¹⁶	24.70 ¹⁹	44.63 ⁹	53.88 ²⁶	7.84 ¹⁰	61.59 ²⁴
8	45.37 ¹⁷	24.89 ¹⁸	44.72 ⁹	53.62 ²⁷	7.74 ¹⁰	61.35 ²³
9	45.54 ¹⁹	25.07 ²⁰	44.81 ⁹	53.35 ²⁹	7.64 ¹¹	61.12 ²⁴
10	45.73 ²⁰	25.27 ²¹	44.90 ¹⁰	53.06 ³⁰	7.53 ¹¹	60.88 ²⁵
11	45.93 ²⁰	25.48 ²²	45.00 ¹¹	52.76 ³⁰	7.42 ¹²	60.63 ²⁸
12	46.13 ¹⁹	25.70 ²⁵	45.11 ¹³	52.46 ³¹	7.30 ¹²	60.35 ²⁹
13	46.32 ¹⁸	25.95 ²⁷	45.24 ¹⁵	52.15 ³¹	7.18 ¹⁰	60.06 ³¹
14	46.50	26.22	45.39	51.84	7.08	59.75
O. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0°.26 cos φ		- 0°.26 cos φ		- 0°.23 cos φ	

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ε Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 9 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Sept. 14	46.50 ¹⁷	26.22 ²⁹	45.39 ¹⁷	51.84 ²⁹	7.08 ⁹	59.75 ³³
15	46.67 ¹⁵	26.51 ²⁹	45.56 ¹⁸	51.55 ²⁷	6.99 ⁷	59.42 ³³
16	46.82 ¹³	26.80 ³⁰	45.74 ¹⁸	51.28 ²⁴	6.92 ⁶	59.09 ³³
17	46.95 ¹²	27.10 ²⁹	45.92 ¹⁷	51.04 ²³	6.86 ⁴	58.76 ³²
18	47.07 ¹¹	27.39 ²⁷	46.09 ¹⁸	50.81 ²¹	6.82 ⁴	58.44 ³⁰
19	47.18 ¹⁰	27.66 ²⁵	46.27 ¹⁶	50.60 ²²	6.78 ³	58.14 ²⁸
20	47.28 ¹¹	27.91 ²⁵	46.43 ¹⁶	50.38 ²¹	6.75 ³	57.86 ²⁸
21	47.39 ¹¹	28.16 ²⁴	46.59 ¹⁴	50.17 ²¹	6.72 ⁴	57.58 ²⁷
22	47.50 ¹³	28.40 ²³	46.73 ¹⁴	49.96 ²³	6.68 ⁵	57.31 ²⁶
23	47.63 ¹³	28.63 ²⁴	46.87 ¹⁴	49.73 ²⁴	6.63 ⁵	57.05 ²⁷
24	47.76 ¹⁴	28.87 ²⁶	47.01 ¹⁵	49.49 ²⁵	6.58 ⁶	56.78 ²⁸
25	47.90 ¹⁴	29.13 ²⁷	47.16 ¹⁷	49.24 ²⁵	6.52 ⁶	56.50 ²⁹
26	48.04 ¹²	29.40 ²⁹	47.33 ¹⁹	48.99 ²⁵	6.46 ⁶	56.21 ³¹
27	48.16 ¹²	29.69 ³¹	47.52 ²⁰	48.74 ²⁴	6.40 ⁴	55.90 ³³
28	48.28 ¹⁰	30.00 ³²	47.72 ²³	48.50 ²¹	6.36 ³	55.57 ³⁴
29	48.38 ⁸	30.32 ³³	47.95 ²³	48.29 ¹⁹	6.33 ²	55.23 ³³
30	48.46 ⁶	30.65 ³¹	48.18 ²²	48.10 ¹⁸	6.31 ¹	54.90 ³³
Okt. 1	48.52 ⁵	30.96 ³¹	48.40 ²²	47.92 ¹⁶	6.32 ²	54.57 ³²
2	48.57 ³	31.27 ³⁰	48.62 ²²	47.76 ¹⁴	6.34 ³	54.25 ³⁰
3	48.60 ⁵	31.57 ²⁸	48.84 ²⁰	47.62 ¹⁴	6.37 ²	53.95 ³⁰
4	48.65 ⁵	31.85 ²⁸	49.04 ¹⁹	47.48 ¹⁵	6.39 ³	53.65 ²⁸
5	48.70 ⁵	32.13 ²⁷	49.23 ¹⁸	47.33 ¹⁶	6.42 ²	53.37 ²⁶
6	48.75 ⁶	32.40 ²⁶	49.41 ¹⁹	47.17 ¹⁶	6.44 ¹	53.11 ²⁷
7	48.81 ⁷	32.66 ²⁸	49.60 ²⁰	47.01 ¹⁸	6.45 ⁰	52.84 ²⁸
8	48.88 ⁹	32.94 ³⁰	49.80 ²⁰	46.83 ¹⁹	6.45 ⁰	52.56 ²⁹
9	48.97 ⁷	33.24 ³²	49.80 ²⁰	46.64 ¹⁹	6.45 ⁰	52.27 ³¹
10	49.04 ⁷	33.56 ³³	50.00 ²¹	46.45 ¹⁸	6.45 ¹	51.96 ³²
11	49.11 ⁴	33.89 ³⁵	50.21 ²⁴	46.27 ¹⁷	6.46 ²	51.64 ³³
12	49.15 ⁴	34.24 ³⁵	50.45 ²⁶	46.10 ¹⁵	6.48 ⁴	51.31 ³⁴
13	49.19 ¹	34.59 ³⁵	50.71 ²⁶	46.10 ¹⁵	6.52 ⁶	50.97 ³⁵
14	49.19 ⁰	34.94 ³⁴	50.97 ²⁷	45.95 ¹²	6.58 ⁷	50.62 ³³
15	49.20 ²	35.28 ³³	51.24 ²⁷	45.72 ¹¹	6.65 ⁸	50.29 ³²
16	49.20 ²	35.61 ³¹	51.51 ²⁶	45.57 ⁸	6.73 ⁹	49.97 ³⁰
17	49.16 ²	35.92 ²⁹	51.77 ²⁵	45.64 ⁷	6.82 ⁸	49.67 ²⁷
18	49.14 ³	36.21 ²⁸	52.02 ²⁴	45.57 ⁷	6.90 ⁸	49.40 ²⁶
19	49.11 ¹	36.49 ²⁹	52.26 ²²	45.50 ⁷	6.98 ⁸	49.14 ²⁵
20	49.10 ¹	36.78 ²⁹	52.48 ²²	45.43 ⁸	7.06 ⁷	48.89 ²⁵
			52.70 ²²	45.35 ⁸	7.13 ⁷	48.63 ²⁶
O. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0°.26 cos φ		- 0°.26 cos φ		- 0°.23 cos φ	

Obere Kulmination.

1909	Octantis 4 G. 6 ^m .		ζ Octantis. 6 ^m - 5 ^m .		ε Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 9 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Okt. 20	49.10 ¹	36.78 ²⁸	52.70 ²²	45.35 ⁹	7.13 ⁶	48.63 ²⁵
21	49.11 ⁰	37.06 ²⁹	52.92 ²²	45.26 ¹¹	7.19 ⁶	48.38 ²⁷
22	49.11 ¹	37.35 ³⁰	53.14 ²³	45.15 ¹⁰	7.25 ⁶	48.11 ²⁸
23	49.12 ⁰	37.65 ³²	53.37 ²⁵	45.05 ¹⁰	7.31 ⁸	47.83 ³⁰
24	49.12 ¹	37.97 ³³	53.62 ²⁷	44.95 ⁹	7.39 ⁹	47.53 ³⁰
25	49.11 ³	38.30 ³³	53.89 ²⁸	44.86 ⁷	7.48 ¹⁰	47.23 ³⁰
26	49.08 ⁶	38.63 ³⁴	54.17 ²⁸	44.79 ⁴	7.58 ¹²	46.93 ²⁹
27	49.02 ⁶	38.97 ³⁴	54.45 ²⁸	44.75 ²	7.70 ¹⁴	46.64 ²⁹
28	48.96 ⁸	39.31 ³³	54.73 ²⁸	44.73 ¹	7.84 ¹⁵	46.35 ²⁶
29	48.88 ⁹	39.64 ³⁰	55.01 ²⁸	44.72 ¹	7.99 ¹⁴	46.09 ²⁵
30	48.79 ⁹	39.94 ³⁰	55.29 ²⁶	44.73 ²	8.13 ¹⁵	45.84 ²³
31	48.70 ¹⁰	40.24 ²⁸	55.55 ²⁴	44.75 ³	8.28 ¹⁵	45.61 ²²
Nov. 1	48.60 ⁸	40.52 ²⁶	55.79 ²³	44.78 ²	8.42 ¹³	45.39 ²¹
2	48.52 ⁷	40.78 ²⁶	56.02 ²³	44.80 ⁰	8.55 ¹²	45.18 ²¹
3	48.45 ⁸	41.04 ²⁷	56.25 ²³	44.80 ⁰	8.67 ¹¹	44.97 ²²
4	48.37 ⁶	41.31 ²⁷	56.48 ²⁴	44.80 ¹	8.78 ¹²	44.75 ²⁴
5	48.31 ⁶	41.58 ²⁹	56.72 ²⁵	44.79 ²	8.90 ¹²	44.51 ²⁵
6	48.25 ⁶	41.87 ³¹	56.97 ²⁸	44.77 ²	9.02 ¹³	44.26 ²⁶
7	48.19 ⁷	42.18 ³²	57.25 ²⁸	44.75 ¹	9.15 ¹⁵	44.00 ²⁷
8	48.12 ¹⁰	42.50 ³²	57.53 ²⁹	44.74 ²	9.30 ¹⁶	43.73 ²⁶
9	48.02 ¹²	42.82 ³²	57.82 ²⁹	44.76 ⁴	9.46 ¹⁸	43.47 ²⁶
10	47.90 ¹²	43.14 ³²	58.11 ²⁹	44.80 ⁷	9.64 ¹⁸	43.21 ²³
11	47.78 ¹⁵	43.46 ³⁰	58.40 ²⁹	44.87 ⁸	9.82 ²⁰	42.98 ²²
12	47.63 ¹⁵	43.76 ²⁸	58.69 ²⁷	44.95 ¹⁰	10.02 ¹⁹	42.76 ¹⁹
13	47.48 ¹⁵	44.04 ²⁶	58.96 ²⁶	45.05 ¹¹	10.21 ¹⁹	42.57 ¹⁷
14	47.33 ¹⁵	44.30 ²⁴	59.22 ²⁴	45.16 ¹¹	10.40 ¹⁹	42.40 ¹⁶
15	47.18 ¹⁵	44.54 ²³	59.46 ²³	45.27 ¹⁰	10.59 ¹⁷	42.24 ¹⁵
16	47.03 ¹³	44.77 ²²	59.69 ²³	45.37 ⁹	10.76 ¹⁷	42.09 ¹⁵
17	46.90 ¹²	44.99 ²³	59.92 ²³	45.46 ⁸	10.93 ¹⁷	41.94 ¹⁶
18	46.78 ¹²	45.22 ²³	60.15 ²³	45.54 ⁸	11.10 ¹⁶	41.78 ¹⁷
19	46.66 ¹²	45.45 ²⁵	60.38 ²⁴	45.62 ⁷	11.26 ¹⁸	41.61 ¹⁸
20	46.54 ¹⁴	45.70 ²⁶	60.62 ²⁵	45.69 ⁹	11.44 ¹⁸	41.43 ¹⁹
21	46.40 ¹⁴	45.96 ²⁶	60.87 ²⁷	45.78 ¹⁰	11.62 ²⁰	41.24 ¹⁹
22	46.26 ¹⁶	46.22 ²⁷	61.14 ²⁸	45.88 ¹²	11.82 ²¹	41.05 ¹⁸
23	46.10 ¹⁸	46.49 ²⁶	61.42 ²⁷	46.00 ¹⁵	12.03 ²³	40.87 ¹⁶
24	45.92 ²⁰	46.75 ²⁶	61.69 ²⁷	46.15 ¹⁷	12.26 ²³	40.71 ¹⁴
25	45.72 ²¹	47.01 ²³	61.96 ²⁵	46.32 ¹⁹	12.49 ²⁴	40.57 ¹⁴
26	45.51	47.24	62.21	46.51	12.73	40.43
U. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0°.26 cos φ		- 0°.26 cos φ		- 0°.23 cos φ	

Obere Kulmination.

1909	♄ Octantis 4 G. 6 ^m .		♃ Octantis. 6 ^m - 5 ^m .		♅ Octantis. 6 ^m - 5 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 42 ^m	-85° 13'	9 ^h 10 ^m	-85° 17'	12 ^h 45 ^m	-84° 37'
Nov. 26	45.51 ²¹	47.24 ²²	2.21 ²⁵	46.51 ¹⁹	12.73 ²⁴	40.43 ¹¹
27	45.30 ²²	47.46 ¹⁹	2.46 ²³	46.70 ¹⁹	12.97 ²³	40.32 ⁹
28	45.08 ²⁰	47.65 ¹⁸	2.69 ²²	46.89 ²⁰	13.20 ²²	40.23 ⁸
29	44.88 ¹⁹	47.83 ¹⁷	2.91 ²⁰	47.09 ¹⁸	13.42 ²¹	40.15 ⁷
30	44.69 ¹⁸	48.00 ¹⁶	3.11 ¹⁹	47.27 ¹⁸	13.63 ²⁰	40.08 ⁸
Dez. 1	44.51 ¹⁸	48.16 ¹⁸	3.30 ²¹	47.45 ¹⁶	13.83 ²⁰	40.00 ⁸
2	44.33 ¹⁷	48.34 ¹⁸	3.51 ²¹	47.61 ¹⁶	14.03 ²⁰	39.92 ¹⁰
3	44.16 ¹⁸	48.52 ²⁰	3.72 ²²	47.77 ¹⁶	14.23 ²¹	39.82 ¹¹
4	43.98 ¹⁸	48.72 ²⁰	3.94 ²⁴	47.93 ¹⁶	14.44 ²¹	39.71 ¹²
5	43.80 ¹⁹	48.92 ²²	4.18 ²⁴	48.09 ¹⁸	14.65 ²³	39.59 ¹²
6	43.61 ²¹	49.14 ²¹	4.42 ²⁶	48.27 ²⁰	14.88 ²⁴	39.47 ¹¹
7	43.40 ²⁴	49.35 ²⁰	4.68 ²⁴	48.47 ²²	15.12 ²⁵	39.36 ¹⁰
8	43.16 ²⁴	49.55 ¹⁹	4.92 ²⁴	48.69 ²⁴	15.37 ²⁷	39.26 ⁷
9	42.92 ²⁵	49.74 ¹⁷	5.16 ²³	48.93 ²⁶	15.64 ²⁷	39.19 ⁵
10	42.67 ²⁴	49.91 ¹⁴	5.39 ²⁰	49.19 ²⁸	15.91 ²⁶	39.14 ²
11	42.43 ²⁶	50.05 ¹³	5.59 ¹⁹	49.47 ²⁷	16.17 ²⁵	39.12 ¹
12	42.17 ²⁴	50.18 ¹¹	5.78 ¹⁸	49.74 ²⁶	16.42 ²⁴	39.11 ¹
13	41.93 ²³	50.29 ¹⁰	5.96 ¹⁵	50.00 ²⁵	16.66 ²³	39.12 ⁰
14	41.70 ²¹	50.39 ⁸	6.11 ¹⁶	50.25 ²⁵	16.89 ²³	39.12 ⁰
15	41.49 ²²	50.47 ¹⁰	6.27 ¹⁷	50.50 ²⁴	17.12 ²¹	39.12 ⁰
16	41.27 ²¹	50.57 ¹¹	6.44 ¹⁷	50.74 ²³	17.33 ²²	39.12 ¹
17	41.06 ²¹	50.68 ¹¹	6.61 ¹⁸	50.97 ²³	17.55 ²³	39.11 ¹
18	40.85 ²²	50.79 ¹²	6.79 ¹⁸	51.20 ²⁵	17.78 ²⁴	39.10 ³
19	40.63 ²⁴	50.91 ¹³	6.97 ²⁰	51.45 ²⁷	18.02 ²⁵	39.07 ²
20	40.39 ²⁶	51.04 ¹²	7.17 ¹⁹	51.72 ²⁸	18.27 ²⁷	39.05 ⁰
21	40.13 ²⁷	51.16 ¹¹	7.36 ¹⁹	52.00 ³¹	18.54 ²⁷	39.05 ¹
22	39.86 ²⁷	51.27 ⁹	7.55 ¹⁸	52.31 ³²	18.81 ²⁸	39.06 ³
23	39.59 ²⁹	51.36 ⁸	7.73 ¹⁷	52.63 ³³	19.09 ²⁸	39.09 ⁵
24	39.30 ²⁹	51.44 ⁵	7.90 ¹⁴	52.96 ³³	19.37 ²⁷	39.14 ⁸
25	39.01 ²⁸	51.49 ³	8.04 ¹³	53.29 ³⁵	19.64 ²⁶	39.22 ⁹
26	38.73 ²⁷	51.52 ²	8.17 ¹²	53.64 ³³	19.90 ²⁵	39.31 ¹⁰
27	38.46 ²⁵	51.54 ¹	8.29 ¹²	53.97 ³¹	20.15 ²³	39.41 ¹⁰
28	38.21 ²⁴	51.55 ¹	8.41 ¹⁰	54.28 ²⁹	20.38 ²³	39.51 ⁸
29	37.97 ²³	51.56 ¹	8.51 ¹¹	54.57 ²⁹	20.61 ²²	39.59 ⁸
30	37.74 ²³	51.57 ³	8.62 ¹²	54.86 ²⁸	20.83 ²²	39.67 ⁷
31	37.51 ²³	51.60 ⁴	8.74 ¹³	55.14 ²⁸	21.05 ²⁴	39.74 ⁶
32	37.28 ²³	51.64	8.87	55.42	21.29	39.80
0. K.	+ 0°.26 cos φ		+ 0°.26 cos φ		+ 0°.23 cos φ	
U. K.	- 0.26 cos φ		- 0.26 cos φ		- 0.23 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 46'	16 ^h 26 ^m	-86° 11'	18 ^h 0 ^m	-87° 39'
Jan. 0	17.33 ⁶²	26.71 ¹²	22.99 ²⁸	42.31 ²⁵	41.38 ²⁴	50.69 ³³
1	17.95 ⁶³	26.59 ¹⁰	23.27 ²⁹	42.06 ²⁵	41.62 ²⁷	50.36 ³⁴
2	18.58 ⁶⁶	26.49 ⁸	23.56 ³¹	41.81 ²²	41.89 ³⁰	50.02 ³³
3	19.24 ⁶⁵	26.41 ⁷	23.87 ³²	41.59 ²¹	42.19 ³²	49.69 ³²
4	19.89 ⁶³	26.34 ⁴	24.19 ³¹	41.38 ¹⁹	42.51 ³⁴	49.37 ²⁹
5	20.52 ⁶⁰	26.30 ³	24.50 ³¹	41.19 ¹⁷	42.85 ³³	49.08 ²⁸
6	21.12 ⁵⁸	26.27 ¹	24.81 ³⁰	41.02 ¹⁶	43.18 ³³	48.80 ²⁶
7	21.70 ⁵⁵	26.26 ³	25.11 ²⁸	40.86 ¹⁶	43.51 ³⁰	48.54 ²⁵
8	22.25 ⁵³	26.23 ³	25.39 ²⁷	40.70 ¹⁶	43.81 ²⁹	48.29 ²⁵
9	22.78 ⁵⁴	26.20 ⁴	25.66 ²⁷	40.54 ¹⁸	44.10 ²⁸	48.04 ²⁶
10	23.32 ⁵⁴	26.16 ⁵	25.93 ²⁷	40.36 ¹⁸	44.38 ²⁷	47.78 ²⁷
11	23.86 ⁵⁷	26.11 ⁶	26.20 ²⁷	40.18 ¹⁹	44.65 ²⁸	47.51 ²⁹
12	24.43 ⁶⁰	26.05 ⁶	26.47 ³⁰	39.99 ²⁰	44.93 ³⁰	47.22 ³⁰
13	25.03 ⁶³	25.99 ⁵	26.77 ³¹	39.79 ²⁰	45.23 ³³	46.92 ³²
14	25.66 ⁶⁷	25.94 ⁴	27.08 ³³	39.59 ¹⁹	45.56 ³⁶	46.60 ³⁰
15	26.33 ⁶⁸	25.90 ²	27.41 ³⁶	39.40 ¹⁸	45.92 ⁴⁰	46.30 ³¹
16	27.01 ⁶⁸	25.88 ¹	27.77 ³⁷	39.22 ¹⁶	46.32 ⁴⁴	45.99 ³⁰
17	27.69 ⁶⁹	25.89 ³	28.14 ³⁷	39.06 ¹⁴	46.76 ⁴⁶	45.69 ²⁷
18	28.38 ⁶⁶	25.92 ⁴	28.51 ³⁷	38.92 ¹²	47.22 ⁴⁷	45.42 ²⁵
19	29.04 ⁶⁴	25.96 ⁶	28.88 ³⁶	38.80 ¹⁰	47.69 ⁴⁶	45.17 ²³
20	29.68 ⁶¹	26.02 ⁷	29.24 ³⁵	38.70 ⁹	48.15 ⁴⁵	44.94 ²²
21	30.29 ⁵⁸	26.09 ⁷	29.59 ³⁴	38.61 ⁸	48.60 ⁴³	44.72 ²¹
22	30.87 ⁵⁷	26.16 ⁶	29.93 ³³	38.53 ¹⁰	49.03 ⁴³	44.51 ²¹
23	31.44 ⁵⁷	26.22 ⁴	30.26 ³²	38.43 ¹⁰	49.46 ⁴⁰	44.30 ²²
24	32.01 ⁵⁹	26.26 ³	30.58 ³³	38.33 ¹¹	49.86 ⁴¹	44.08 ²³
25	32.60 ⁶¹	26.29 ³	30.91 ³⁴	38.22 ¹²	50.27 ⁴¹	43.85 ²⁵
26	33.21 ⁶⁴	26.32 ³	31.25 ³⁵	38.10 ¹³	50.68 ⁴³	43.60 ²⁶
27	33.85 ⁶⁶	26.35 ⁴	31.60 ³⁷	37.97 ¹⁴	51.11 ⁴⁶	43.34 ²⁷
28	34.51 ⁶⁹	26.39 ⁶	31.97 ³⁹	37.83 ¹²	51.57 ⁴⁹	43.07 ²⁷
29	35.20 ⁷⁰	26.45 ⁷	32.36 ⁴¹	37.71 ¹¹	52.06 ⁵²	42.80 ²⁵
30	35.90 ⁷⁰	26.52 ⁸	32.77 ⁴⁰	37.60 ⁹	52.58 ⁵⁴	42.55 ²⁴
31	36.60 ⁶⁶	26.60 ¹²	33.17 ⁴¹	37.51 ⁶	53.12 ⁵⁶	42.31 ²¹
Febr. 1	37.26 ⁶⁵	26.72 ¹³	33.58 ³⁹	37.45 ⁴	53.68 ⁵⁵	42.10 ²⁰
2	37.91 ⁶²	26.85 ¹³	33.97 ³⁹	37.41 ³	54.23 ⁵⁵	41.90 ¹⁷
3	38.53 ⁵⁹	26.98 ¹⁴	34.36 ³⁷	37.38 ²	54.78 ⁵²	41.73 ¹⁷
4	39.12 ⁵⁶	27.12 ¹³	34.73 ³⁵	37.36 ²	55.30 ⁵¹	41.56 ¹⁶
5	39.68 ⁵⁵	27.25 ¹³	35.08 ³⁴	37.34 ²	55.81 ⁴⁹	41.40 ¹⁵
6	40.23	27.38	35.42	37.32	56.30	41.25
O. K.	+ 0°.55	cos φ	+ 0°.32	cos φ	+ 0°.52	cos φ
U. K.	- 0°.55	cos φ	- 0°.32	cos φ	- 0°.52	cos φ

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 46'	16 ^h 26 ^m	-86° 11'	18 ^h 0 ^m	-87° 39'
Febr. 6	40.23 ⁵⁵	27.38 ¹⁰	35.42 ³⁴	37.32 ⁴	56.30 ⁴⁸	41.25 ¹⁸
7	40.78 ⁵⁷	27.48 ¹⁰	35.76 ³⁴	37.28 ⁵	56.78 ⁴⁷	41.07 ¹⁸
8	41.35 ⁵⁹	27.58 ⁹	36.10 ³⁶	37.23 ⁶	57.25 ⁴⁸	40.89 ²⁰
9	41.94 ⁶¹	27.67 ¹⁰	36.46 ³⁸	37.17 ⁶	57.73 ⁵¹	40.69 ²¹
10	42.55 ⁶⁵	27.77 ¹¹	36.84 ³⁹	37.11 ⁶	58.24 ⁵⁴	40.48 ²¹
11	43.20 ⁶⁶	27.88 ¹³	37.23 ⁴¹	37.05 ⁵	58.78 ⁵⁷	40.27 ²¹
12	43.86 ⁶⁸	28.01 ¹⁵	37.64 ⁴³	37.00 ³	59.35 ⁶¹	40.06 ¹⁹
13	44.54 ⁶⁶	28.16 ¹⁷	38.07 ⁴²	36.97 ¹	59.96 ⁶²	39.87 ¹⁸
14	45.20 ⁶⁴	28.33 ²⁰	38.49 ⁴³	36.96 ²	60.58 ⁶⁴	39.69 ¹⁵
15	45.84 ⁶²	28.53 ²⁰	38.92 ⁴¹	36.98 ³	61.22 ⁶³	39.54 ¹³
16	46.46 ⁵⁸	28.73 ²²	39.33 ⁴¹	37.01 ⁵	61.85 ⁶³	39.41 ¹⁰
17	47.04 ⁵⁶	28.95 ²²	39.74 ³⁹	37.06 ⁶	62.48 ⁶¹	39.31 ¹⁰
18	47.60 ⁵⁴	29.17 ²¹	40.13 ³⁷	37.12 ⁵	63.09 ⁵⁹	39.21 ¹⁰
19	48.14 ⁵³	29.38 ²⁰	40.50 ³⁶	37.17 ⁵	63.68 ⁵⁷	39.11 ¹⁰
20	48.67 ⁵³	29.58 ¹⁸	40.86 ³⁷	37.22 ³	64.25 ⁵⁵	39.01 ¹¹
21	49.20 ⁵⁵	29.76 ¹⁸	41.23 ³⁷	37.25 ³	64.80 ⁵⁶	38.90 ¹³
22	49.75 ⁵⁷	29.94 ¹⁷	41.60 ³⁸	37.28 ¹	65.36 ⁵⁷	38.77 ¹⁴
23	50.32 ⁵⁹	30.11 ¹⁸	41.98 ³⁹	37.29 ¹	65.93 ⁵⁹	38.63 ¹⁴
24	50.91 ⁶¹	30.29 ¹⁸	42.37 ⁴⁰	37.30 ²	66.52 ⁶¹	38.49 ¹⁵
25	51.52 ⁶²	30.47 ²¹	42.77 ⁴³	37.32 ³	67.13 ⁶⁴	38.34 ¹⁴
26	52.14 ⁶²	30.68 ²²	43.20 ⁴³	37.35 ⁵	67.77 ⁶⁷	38.20 ¹³
27	52.76 ⁶⁰	30.90 ²⁵	43.63 ⁴²	37.40 ⁷	68.44 ⁶⁸	38.07 ¹⁰
28	53.36 ⁵⁸	31.15 ²⁶	44.05 ⁴²	37.47 ⁹	69.12 ⁶⁷	37.97 ⁸
März 1	53.94 ⁵⁵	31.41 ²⁶	44.47 ⁴¹	37.56 ¹¹	69.79 ⁶⁷	37.89 ⁶
2	54.49 ⁵¹	31.67 ²⁷	44.88 ³⁹	37.67 ¹¹	70.46 ⁶⁶	37.83 ⁴
3	55.00 ⁴⁸	31.94 ²⁷	45.27 ³⁷	37.78 ¹²	71.12 ⁶²	37.79 ³
4	55.48 ⁴⁶	32.21 ²⁶	45.64 ³⁵	37.90 ¹²	71.74 ⁵⁹	37.76 ³
5	55.94 ⁴⁴	32.47 ²⁴	45.99 ³⁵	38.02 ¹¹	72.33 ⁵⁸	37.73 ⁴
6	56.38 ⁴⁶	32.71 ²⁴	46.34 ³⁵	38.13 ⁹	72.91 ⁵⁷	37.69 ⁴
7	56.84 ⁴⁸	32.95 ²²	46.69 ³⁵	38.22 ⁷	73.48 ⁵⁷	37.65 ⁸
8	57.32 ⁵⁰	33.17 ²²	47.04 ³⁶	38.29 ⁸	74.05 ⁵⁹	37.57 ⁸
9	57.82 ⁵²	33.39 ²³	47.40 ³⁸	38.37 ⁸	74.64 ⁶¹	37.49 ⁷
10	58.34 ⁵⁵	33.62 ²⁴	47.78 ³⁹	38.45 ⁸	75.25 ⁶³	37.42 ⁸
11	58.89 ⁵⁵	33.86 ²⁶	48.17 ⁴¹	38.53 ⁹	75.88 ⁶⁷	37.34 ⁸
12	59.44 ⁵⁵	34.12 ²⁸	48.58 ⁴²	38.62 ¹²	76.55 ⁷⁰	37.26 ⁶
13	59.99 ⁵³	34.40 ³⁰	49.00 ⁴²	38.74 ¹⁴	77.25 ⁷⁰	37.20 ³
14	60.52 ⁵⁰	34.70 ³²	49.42 ⁴¹	38.88 ¹⁷	77.95 ⁷¹	37.17 ⁰
15	61.02	35.02	49.83	39.05	78.66	37.17
U. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0°.55 cos φ		- 0°.32 cos φ		- 0°.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 43 ^m	-87° 46'	16 ^h 26 ^m	-86° 11'	18 ^h 1 ^m	-87° 39'
März 15	1.02	35.02	49.83	39.05	18.66	37.17
16	1.48 ⁴⁶	35.35 ³³	50.21 ³⁸	39.22 ¹⁷	19.35 ⁶⁹	37.18 ¹
17	1.91 ⁴³	35.68 ³³	50.58 ³⁷	39.41 ¹⁹	20.02 ⁶⁷	37.21 ³
18	2.31 ⁴⁰	36.01 ³³	50.94 ³⁶	39.60 ¹⁹	20.67 ⁶⁵	37.24 ³
19	2.69 ³⁸	36.32 ³¹	51.28 ³⁴	39.79 ¹⁹	21.30 ⁶³	37.27 ³
20	3.07 ³⁸	36.62 ³⁰	51.61 ³³	39.96 ¹⁷	21.91 ⁶¹	37.30 ³
21	3.46 ³⁹	36.90 ²⁸	51.94 ³³	40.11 ¹⁵	22.50 ⁵⁹	37.32 ²
22	3.87 ⁴¹	37.18 ²⁸	52.28 ³⁴	40.25 ¹⁴	23.10 ⁶⁰	37.32 ⁰
23	4.30 ⁴³	37.45 ²⁷	52.63 ³⁵	40.39 ¹⁴	23.72 ⁶²	37.32 ¹
24	4.75 ⁴⁵	37.73 ²⁸	53.00 ³⁷	40.53 ¹⁴	24.36 ⁶⁴	37.31 ²
25	5.22 ⁴⁷	38.02 ²⁹	53.38 ³⁸	40.68 ¹⁵	24.96 ⁶⁵	37.29 ¹
26	5.69 ⁴⁷	38.34 ³²	53.76 ³⁸	40.84 ¹⁶	25.61 ⁶⁸	37.28 ⁰
27	6.14 ⁴⁵	38.67 ³³	54.15 ³⁹	41.01 ¹⁷	26.30 ⁶⁹	37.28 ³
28	6.56 ⁴²	39.01 ³⁴	54.53 ³⁸	41.21 ²⁰	26.99 ⁷⁰	37.31 ³
29	6.96 ⁴⁰	39.37 ³⁶	54.89 ³⁶	41.44 ²³	27.68 ⁶⁹	37.34 ⁶
30	7.32 ³⁶	39.74 ³⁷	55.24 ³⁵	41.69 ²⁵	28.37 ⁶⁷	37.40 ⁸
31	7.63 ³¹	40.10 ³⁶	55.57 ³³	41.94 ²⁵	29.06 ⁶⁵	37.48 ¹⁰
April 1	7.92 ²⁹	40.45 ³⁵	55.88 ³¹	42.18 ²⁴	29.75 ⁶⁰	37.58 ¹⁰
2	8.19 ²⁷	40.79 ³⁴	56.17 ²⁹	42.40 ²²	30.44 ⁵⁸	37.68 ⁹
3	8.47 ²⁸	41.10 ³¹	56.46 ²⁹	42.62 ²²	31.13 ⁵⁷	37.77 ⁹
4	8.75 ²⁸	41.41 ³¹	56.75 ²⁹	42.83 ²¹	31.82 ⁵⁶	37.86 ⁷
5	9.05 ³⁰	41.71 ³⁰	57.04 ²⁹	43.01 ¹⁸	32.51 ⁵⁷	37.93 ⁶
6	9.38 ³³	42.00 ²⁹	57.35 ³¹	43.19 ¹⁸	33.20 ⁵⁸	37.99 ⁵
7	9.73 ³⁵	42.31 ³¹	57.68 ³³	43.38 ¹⁹	33.89 ⁶⁰	38.04 ⁵
8	10.09 ³⁶	42.63 ³²	58.02 ³⁴	43.58 ²⁰	34.58 ⁶⁴	38.09 ⁵
9	10.45 ³⁶	42.98 ³⁵	58.36 ³⁴	43.81 ²³	35.27 ⁶⁶	38.14 ⁷
10	10.79 ³⁴	43.34 ³⁶	58.70 ³⁴	44.05 ²⁴	35.96 ⁶⁷	38.21 ⁹
11	11.11 ³²	43.72 ³⁸	59.03 ³³	44.27 ²⁷	36.65 ⁶⁶	38.30 ¹²
12	11.43 ²⁸	44.11 ³⁹	59.35 ³²	44.50 ²⁸	37.34 ⁶⁶	38.42 ¹³
13	11.63 ²⁴	44.50 ³⁹	59.66 ³¹	44.89 ²⁹	38.03 ⁶⁴	38.55 ¹⁵
14	11.84 ²¹	44.89 ³⁹	59.94 ²⁸	45.18 ²⁹	38.72 ⁶¹	38.70 ¹⁶
15	12.03 ¹⁹	45.26 ³⁷	60.21 ²⁷	45.47 ²⁹	39.41 ⁵⁸	38.86 ¹⁷
16	12.21 ¹⁸	45.62 ³⁶	60.46 ²⁵	45.74 ²⁷	40.10 ⁵⁶	39.03 ¹⁶
17	12.39 ¹⁸	45.96 ³⁴	60.71 ²⁵	46.00 ²⁶	40.79 ⁵⁵	39.19 ¹⁴
18	12.58 ¹⁹	46.30 ³⁴	60.97 ²⁶	46.25 ²⁵	41.48 ⁵³	39.33 ¹³
19	13.16 ²¹	46.62 ³²	61.23 ²⁶	46.49 ²⁴	42.17 ⁵⁴	39.46 ¹¹
20	13.34 ²³	46.95 ³³	61.50 ²⁷	46.73 ²⁴	42.86 ⁵⁶	39.57 ¹²
21	13.52 ²⁵	47.29 ³⁴	61.78 ²⁸	46.96 ²³	43.55 ⁵⁸	39.69 ¹¹
	13.70	47.62	62.06	47.19	44.24 ⁵⁸	39.80 ¹¹
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0.55 cos φ		- 0.32 cos φ		- 0.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 43 ^m	-87° 46'	16 ^h 27 ^m	-86° 11'	18 ^h 1 ^m	-87° 39'
April 21	13.27 ²⁶	47.29 ³⁵	1.78 ³⁰	46.96 ²⁵	41.59 ⁶⁰	39.80 ¹¹
22	13.53 ²⁴	47.64 ³⁶	2.08 ²⁹	47.21 ²⁸	42.19 ⁶¹	39.91 ¹⁴
23	13.77 ²¹	48.00 ³⁸	2.37 ²⁹	47.49 ²⁸	42.80 ⁶²	40.05 ¹⁵
24	13.98 ¹⁹	48.38 ³⁹	2.66 ²⁸	47.77 ³⁰	43.42 ⁶¹	40.20 ¹⁸
25	14.17 ¹⁵	48.77 ⁴¹	2.94 ²⁵	48.07 ³³	44.03 ⁵⁹	40.38 ²⁰
26	14.32 ¹⁰	49.18 ³⁹	3.19 ²³	48.40 ³²	44.62 ⁵⁷	40.58 ²²
27	14.42 ⁸	49.57 ³⁹	3.42 ²¹	48.72 ³³	45.19 ⁵³	40.80 ²²
28	14.50 ⁵	49.96 ³⁷	3.63 ²⁰	49.05 ³¹	45.72 ⁵⁰	41.02 ²¹
29	14.55 ⁵	50.33 ³⁶	3.83 ¹⁹	49.36 ³⁰	46.22 ⁴⁷	41.23 ²⁰
30	14.60 ⁶	50.69 ³⁴	4.02 ¹⁸	49.66 ²⁹	46.69 ⁴⁶	41.43 ²⁰
Mai 1	14.66 ⁷	51.03 ³²	4.20 ¹⁸	49.95 ²⁷	47.15 ⁴⁵	41.63 ¹⁷
2	14.73 ⁸	51.35 ³²	4.38 ²⁰	50.22 ²⁶	47.60 ⁴⁶	41.80 ¹⁷
3	14.81 ¹¹	51.67 ³²	4.58 ²¹	50.48 ²⁶	48.06 ⁴⁹	41.97 ¹⁷
4	14.92 ¹²	51.99 ³⁵	4.79 ²¹	50.74 ²⁷	48.55 ⁵⁰	42.14 ¹⁶
5	15.04 ¹³	52.34 ³⁶	5.00 ²³	51.01 ²⁹	49.05 ⁵³	42.30 ¹⁷
6	15.17 ¹²	52.70 ³⁷	5.23 ²⁴	51.30 ³⁰	49.58 ⁵⁴	42.47 ²⁰
7	15.29 ⁹	53.07 ³⁷	5.47 ²³	51.60 ³³	50.12 ⁵⁵	42.67 ²¹
8	15.38 ⁷	53.44 ⁴⁰	5.70 ²⁰	51.93 ³³	50.67 ⁵⁴	42.88 ²⁴
9	15.45 ²	53.84 ⁴⁰	5.90 ¹⁹	52.26 ³⁵	51.21 ⁵¹	43.12 ²⁵
10	15.47 ¹	54.24 ³⁹	6.09 ¹⁷	52.61 ³⁶	51.72 ⁴⁹	43.37 ²⁷
11	15.46 ⁴	54.63 ³⁹	6.26 ¹⁵	52.97 ³⁶	52.21 ⁴⁶	43.64 ²⁷
12	15.42 ⁶	55.02 ³⁷	6.41 ¹³	53.33 ³⁴	52.67 ⁴²	43.91 ²⁶
13	15.36 ⁷	55.39 ³⁴	6.54 ¹³	53.67 ³³	53.09 ⁴¹	44.17 ²⁶
14	15.29 ⁴	55.73 ³⁴	6.67 ¹⁴	54.00 ³¹	53.50 ³⁹	44.43 ²³
15	15.25 ³	56.07 ³²	6.81 ¹³	54.31 ³⁰	53.89 ³⁸	44.66 ²³
16	15.22 ¹	56.39 ³¹	6.94 ¹³	54.61 ²⁸	54.27 ⁴⁰	44.89 ²¹
17	15.21 ⁰	56.70 ³²	7.07 ¹⁶	54.89 ²⁹	54.67 ⁴²	45.10 ²²
18	15.21 ¹	57.02 ³⁴	7.23 ¹⁶	55.18 ²⁹	55.09 ⁴⁴	45.32 ²¹
19	15.22 ¹	57.36 ³⁵	7.39 ¹⁷	55.47 ³²	55.53 ⁴⁵	45.53 ²²
20	15.23 ¹	57.71 ³⁶	7.56 ¹⁶	55.79 ³²	55.98 ⁴⁶	45.75 ²³
21	15.22 ⁴	58.07 ³⁷	7.72 ¹⁵	56.11 ³⁴	56.44 ⁴⁴	45.98 ²⁷
22	15.18 ⁸	58.44 ³⁸	7.87 ¹³	56.45 ³⁶	56.88 ⁴³	46.25 ²⁸
23	15.10 ¹¹	58.82 ³⁷	8.00 ¹¹	56.81 ³⁷	57.31 ⁴¹	46.53 ³⁰
24	14.99 ¹⁴	59.19 ³⁷	8.11 ⁹	57.18 ³⁷	57.72 ³⁷	46.83 ³¹
25	14.85 ¹⁷	59.56 ³⁵	8.20 ⁶	57.55 ³⁵	58.09 ³⁴	47.14 ³¹
26	14.68 ²⁰	59.91 ³³	8.26 ⁵	57.90 ³⁵	58.43 ²⁹	47.45 ³⁰
27	14.48 ²⁰	60.24 ³¹	8.31 ⁵	58.25 ³²	58.72 ²⁷	47.75 ²⁹
28	14.28	60.55	8.36	58.57	58.99	48.04
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0°.55 cos φ		- 0°.32 cos φ		- 0°.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 43 ^m	-87° 47'	16 ^h 27 ^m	-86° 11'	18 ^h 1 ^m	-87° 39'
Mai 28	14.28 ¹⁸	0.55 ³⁰	8.36 ⁵	58.57 ³¹	58.99 ²⁷	48.04 ²⁷
29	14.10 ¹⁷	0.85 ²⁹	8.41 ⁴	58.88 ³⁰	59.26 ²⁸	48.31 ²⁶
30	13.93 ¹³	1.14 ²⁹	8.45 ⁶	59.18 ²⁹	59.54 ²⁸	48.57 ²⁵
Juni 31	13.80 ¹²	1.43 ²⁹	8.51 ⁸	59.47 ²⁹	59.82 ³¹	48.82 ²⁴
1	13.68 ¹¹	1.72 ³⁰	8.59 ¹⁰	59.76 ³⁰	60.13 ³²	49.06 ²⁶
2	13.57 ¹²	2.02 ³²	8.69 ⁸	60.06 ³¹	60.45 ³⁵	49.32 ²⁶
3	13.45 ¹³	2.34 ³⁴	8.77 ⁸	60.37 ³⁴	60.80 ³⁵	49.58 ²⁸
4	13.32 ¹⁶	2.68 ³⁴	8.85 ⁷	60.71 ³⁵	61.15 ³⁴	49.86 ³⁰
5	13.16 ²⁰	3.02 ³⁵	8.92 ⁶	61.06 ³⁶	61.49 ³¹	50.16 ³²
6	12.96 ²⁴	3.37 ³⁵	8.98 ³	61.42 ³⁷	61.80 ³⁰	50.48 ³³
7	12.72 ²⁶	3.72 ³⁴	9.01 ²	61.79 ³⁷	62.10 ²⁶	50.81 ³⁴
8	12.46 ²⁹	4.06 ³¹	9.03 ¹	62.16 ³⁶	62.36 ²³	51.15 ³⁴
9	12.17 ³⁰	4.37 ³⁰	9.02 ²	62.52 ³⁴	62.59 ²⁰	51.49 ³²
10	11.87 ²⁸	4.67 ²⁹	9.00 ²	62.86 ³²	62.79 ¹⁸	51.81 ³¹
11	11.59 ²⁷	4.96 ²⁶	8.98 ²	63.18 ³¹	62.97 ¹⁸	52.12 ²⁹
12	11.32 ²⁵	5.22 ²⁶	8.96 ¹	63.49 ²⁹	63.15 ¹⁷	52.41 ²⁸
13	11.07 ²⁴	5.48 ²⁵	8.95 ⁰	63.78 ²⁹	63.32 ¹⁹	52.69 ²⁷
14	10.83 ²²	5.73 ²⁶	8.95 ¹	64.07 ²⁸	63.51 ²⁰	52.96 ²⁷
15	10.61 ²¹	5.99 ²⁸	8.96 ¹	64.35 ³⁰	63.71 ²²	53.23 ²⁸
16	10.40 ²³	6.27 ²⁸	8.97 ²	64.65 ³¹	63.93 ²³	53.51 ²⁹
17	10.17 ²⁵	6.55 ³⁰	8.99 ¹	64.96 ³⁴	64.16 ²³	53.80 ³⁰
18	9.92 ²⁹	6.85 ³⁰	9.00 ²	65.30 ³⁴	64.39 ²¹	54.10 ³³
19	9.63 ³²	7.15 ³¹	8.98 ³	65.64 ³⁵	64.60 ¹⁸	54.43 ³⁴
20	9.31 ³⁶	7.46 ²⁹	8.95 ⁵	65.99 ³⁴	64.78 ¹⁵	54.77 ³⁶
21	8.95 ³⁹	7.75 ²⁸	8.90 ⁷	66.33 ³⁴	64.93 ¹¹	55.13 ³⁴
22	8.56 ⁴¹	8.03 ²⁵	8.83 ¹⁰	66.67 ³³	65.04 ⁸	55.47 ³⁵
23	8.15 ⁴¹	8.28 ²⁴	8.73 ¹⁰	67.00 ³²	65.12 ⁵	55.82 ³³
24	7.74 ⁴⁰	8.52 ²²	8.63 ¹⁰	67.32 ²⁹	65.17 ⁴	56.15 ³²
25	7.34 ³⁸	8.74 ²⁰	8.53 ¹⁰	67.61 ²⁸	65.21 ²	56.47 ³⁰
26	6.96 ³⁶	8.94 ¹⁸	8.43 ⁹	67.89 ²⁶	65.23 ⁵	56.77 ²⁹
27	6.60 ³⁴	9.12 ²⁰	8.34 ⁸	68.15 ²⁶	65.28 ⁶	57.06 ²⁷
28	6.26 ³¹	9.32 ²⁰	8.26 ⁷	68.41 ²⁷	65.34 ⁷	57.33 ²⁸
29	5.95 ³²	9.52 ²²	8.19 ⁷	68.68 ²⁸	65.41 ⁹	57.61 ²⁸
30	5.63 ³³	9.74 ²³	8.12 ⁶	68.96 ²⁸	65.50 ¹⁰	57.89 ³⁰
Juli 1	5.30 ³⁵	9.97 ²⁵	8.06 ⁷	69.24 ³¹	65.60 ⁹	58.19 ³³
2	4.95 ³⁸	10.22 ²⁴	7.99 ⁹	69.55 ³²	65.69 ⁸	58.52 ³³
3	4.57 ⁴²	10.46 ²⁵	7.90 ¹¹	69.87 ³²	65.77 ⁶	58.85 ³⁵
4	4.15	10.71	7.79	70.19	65.83	59.20
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0.55 cos φ		- 0.32 cos φ		- 0.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m —7 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	—87° 47'	16 ^h 27 ^m	—86° 12'	18 ^h 1 ^m	—87° 39'
Juli 4	64.15 ⁴⁵	10.71 ²⁴	7.79 ¹³	10.19 ³²	65.83 ²	59.20 ³⁵
5	63.70 ⁴⁸	10.95 ²²	7.66 ¹⁴	10.51 ³¹	65.85 ¹	59.55 ³⁵
6	63.22 ⁴⁸	11.17 ¹⁹	7.52 ¹⁶	10.82 ³⁰	65.84 ⁴	59.90 ³⁴
7	62.74 ⁴⁸	11.36 ¹⁸	7.36 ¹⁷	11.12 ²⁷	65.80 ⁷	60.24 ³⁴
8	62.26 ⁴⁷	11.54 ¹⁶	7.19 ¹⁶	11.39 ²⁶	65.73 ⁸	60.58 ³⁰
9	61.79 ⁴⁴	11.70 ¹⁵	7.03 ¹⁶	11.65 ²⁴	65.65 ⁸	60.88 ²⁹
10	61.35 ⁴²	11.85 ¹⁴	6.87 ¹⁵	11.89 ²³	65.57 ⁷	61.17 ²⁸
11	60.93 ⁴⁰	11.99 ¹⁴	6.72 ¹⁴	12.12 ²³	65.50 ⁶	61.45 ²⁷
12	60.53 ³⁸	12.13 ¹⁵	6.58 ¹³	12.35 ²³	65.44 ⁴	61.72 ²⁷
13	60.15 ⁴⁰	12.28 ¹⁶	6.45 ¹²	12.58 ²⁵	65.40 ²	61.99 ²⁸
14	59.75 ⁴⁰	12.44 ¹⁷	6.33 ¹⁴	12.83 ²⁵	65.38 ³	62.27 ²⁹
15	59.35 ⁴³	12.61 ¹⁷	6.19 ¹⁴	13.08 ²⁷	65.35 ⁴	62.56 ³¹
16	58.92 ⁴⁷	12.78 ¹⁷	6.05 ¹⁶	13.35 ²⁷	65.31 ⁶	62.87 ³²
17	58.45 ⁵⁰	12.95 ¹⁸	5.89 ¹⁸	13.62 ²⁸	65.25 ⁹	63.19 ³⁴
18	57.95 ⁵³	13.13 ¹⁵	5.71 ²¹	13.90 ²⁷	65.16 ¹²	63.53 ³⁴
19	57.42 ⁵⁶	13.28 ¹³	5.50 ²²	14.17 ²⁶	65.04 ¹⁷	63.87 ³³
20	56.86 ⁵⁶	13.41 ¹²	5.28 ²⁴	14.43 ²⁴	64.87 ¹⁹	64.20 ³²
21	56.30 ⁵⁵	13.53 ⁹	5.04 ²⁴	14.67 ²²	64.68 ²²	64.52 ³⁰
22	55.75 ⁵³	13.62 ⁷	4.80 ²⁴	14.89 ²⁰	64.46 ²³	64.82 ²⁸
23	55.22 ⁵⁰	13.69 ⁶	4.56 ²³	15.09 ¹⁸	64.23 ²²	65.10 ²⁶
24	54.72 ⁴⁸	13.75 ⁶	4.33 ²¹	15.27 ¹⁷	64.01 ²²	65.36 ²⁵
25	54.24 ⁴⁵	13.81 ⁶	4.12 ²¹	15.44 ¹⁷	63.79 ¹⁸	65.61 ²⁵
26	53.79 ⁴⁵	13.87 ⁸	3.91 ¹⁹	15.61 ¹⁸	63.61 ¹⁶	65.86 ²⁴
27	53.34 ⁴⁵	13.95 ⁸	3.72 ²⁰	15.79 ¹⁹	63.45 ¹⁶	66.10 ²⁶
28	52.89 ⁴⁶	14.03 ⁹	3.52 ²⁰	15.98 ²⁰	63.29 ¹⁵	66.36 ²⁸
29	52.43 ⁴⁹	14.12 ¹¹	3.32 ²⁰	16.18 ²²	63.14 ¹⁶	66.64 ²⁸
30	51.94 ⁵²	14.23 ¹¹	3.12 ²¹	16.40 ²²	62.98 ¹⁹	66.92 ²⁹
31	51.42 ⁵⁴	14.34 ⁹	2.91 ²⁴	16.62 ²²	62.79 ²¹	67.21 ³¹
Aug. 1	50.88 ⁵⁷	14.43 ⁸	2.67 ²⁶	16.84 ²²	62.58 ²⁵	67.52 ³¹
2	50.31 ⁵⁸	14.51 ⁶	2.41 ²⁷	17.06 ²⁰	62.33 ²⁸	67.83 ²⁹
3	49.73 ⁵⁸	14.57 ⁴	2.14 ²⁸	17.26 ¹⁷	62.05 ³⁰	68.12 ²⁸
4	49.15 ⁵⁶	14.61 ¹	1.86 ²⁸	17.43 ¹⁵	61.75 ³²	68.40 ²⁷
5	48.59 ⁵⁴	14.62 ⁰	1.58 ²⁸	17.58 ¹⁴	61.43 ³³	68.67 ²³
6	48.05 ⁵⁰	14.62 ¹	1.30 ²⁶	17.72 ¹²	61.10 ³²	68.90 ²²
7	47.55 ⁴⁹	14.61 ¹	1.04 ²⁵	17.84 ¹¹	60.78 ²⁹	69.12 ²⁰
8	47.06 ⁴⁶	14.60 ¹	0.79 ²⁵	17.95 ¹¹	60.49 ²⁸	69.32 ²⁰
9	46.60 ⁴⁶	14.59 ⁰	0.54 ²³	18.06 ¹²	60.21 ²⁷	69.52 ²¹
10	46.14	14.59	0.31	18.18	59.94	69.73

O. K.
U. K.

+ 0°.55 cos φ
— 0.55 cos φ

+ 0°.32 cos φ
— 0.32 cos φ

+ 0°.52 cos φ
— 0.52 cos φ

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 47'	16 ^h 26 ^m	-86° 12'	18 ^h 1 ^m	-87° 40'
Aug. 10	46.14 ⁴⁷	14.59 ¹	60.31 ²³	18.18 ¹²	59.94 ²⁷	9.73 ²²
11	45.67 ⁴⁹	14.60 ²	60.08 ²⁴	18.30 ¹⁵	59.67 ²⁶	9.95 ²³
12	45.18 ⁵¹	14.62 ³	59.84 ²⁵	18.45 ¹⁵	59.41 ²⁷	10.18 ²⁴
13	44.67 ⁵³	14.65 ²	59.59 ²⁸	18.60 ¹⁵	59.14 ³¹	10.42 ²⁶
14	44.14 ⁵⁷	14.67 ¹	59.31 ²⁹	18.75 ¹⁵	58.83 ³⁵	10.68 ²⁵
15	43.57 ⁵⁹	14.68 ²	59.02 ³¹	18.90 ¹³	58.48 ³⁷	10.93 ²⁵
16	42.98 ⁵⁹	14.66 ⁴	58.71 ³³	19.03 ¹²	58.11 ⁴¹	11.18 ²⁴
17	42.39 ⁵⁸	14.62 ⁶	58.38 ³²	19.15 ¹⁰	57.70 ⁴³	11.42 ²³
18	41.81 ⁵⁷	14.56 ⁸	58.06 ³²	19.25 ⁷	57.27 ⁴⁴	11.65 ¹⁹
19	41.24 ⁵⁴	14.48 ⁹	57.74 ³²	19.32 ⁴	56.83 ⁴⁴	11.84 ¹⁸
20	40.70 ⁵¹	14.39 ¹⁰	57.42 ³⁰	19.36 ³	56.39 ⁴²	12.02 ¹⁶
21	40.19 ⁴⁸	14.29 ¹⁰	57.12 ²⁹	19.39 ³	55.97 ⁴²	12.18 ¹⁵
22	39.71 ⁴⁶	14.19 ⁹	56.83 ²⁸	19.42 ⁴	55.55 ³⁹	12.33 ¹⁴
23	39.25 ⁴⁴	14.10 ⁷	56.55 ²⁶	19.46 ⁵	55.16 ³⁶	12.47 ¹⁶
24	38.81 ⁴⁶	14.03 ⁶	56.29 ²⁷	19.51 ⁵	54.80 ³⁵	12.63 ¹⁶
25	38.35 ⁴⁷	13.97 ⁷	56.02 ²⁷	19.56 ⁷	54.45 ³⁶	12.79 ¹⁷
26	37.88 ⁴⁹	13.90 ⁵	55.75 ²⁸	19.63 ⁸	54.09 ³⁷	12.96 ¹⁹
27	37.39 ⁵²	13.85 ⁶	55.47 ²⁹	19.71 ⁸	53.72 ³⁸	13.15 ²⁰
28	36.87 ⁵⁵	13.79 ⁸	55.18 ³¹	19.79 ⁷	53.34 ⁴²	13.35 ¹⁹
29	36.32 ⁵⁴	13.71 ⁹	54.87 ³³	19.86 ⁶	52.92 ⁴⁶	13.54 ¹⁹
30	35.78 ⁵⁴	13.62 ¹¹	54.54 ³⁴	19.92 ³	52.46 ⁴⁸	13.73 ¹⁷
31	35.24 ⁵⁴	13.51 ¹²	54.20 ³³	19.95 ²	51.98 ⁴⁸	13.90 ¹⁵
Sept. 1	34.70 ⁵²	13.39 ¹⁵	53.87 ³²	19.97 ¹	51.50 ⁵⁰	14.05 ¹²
2	34.18 ⁴⁷	13.24 ¹⁶	53.55 ³²	19.96 ³	51.00 ⁴⁹	14.17 ¹¹
3	33.71 ⁴⁴	13.08 ¹⁷	53.23 ³⁰	19.93 ⁴	50.51 ⁴⁸	14.28 ⁹
4	33.27 ⁴²	12.91 ¹⁷	52.93 ²⁹	19.89 ⁴	50.03 ⁴⁵	14.37 ⁷
5	32.85 ³⁹	12.74 ¹⁷	52.64 ²⁸	19.85 ⁵	49.58 ⁴³	14.44 ⁷
6	32.46 ³⁹	12.57 ¹⁵	52.36 ²⁶	19.80 ³	49.15 ⁴²	14.51 ⁹
7	32.07 ⁴¹	12.42 ¹⁵	52.10 ²⁶	19.77 ¹	48.73 ⁴¹	14.60 ⁹
8	31.66 ⁴²	12.27 ¹⁴	51.84 ²⁷	19.76 ⁰	48.32 ⁴²	14.69 ¹⁰
9	31.24 ⁴⁴	12.13 ¹³	51.57 ³⁰	19.76 ¹	47.90 ⁴⁴	14.79 ¹²
10	30.80 ⁴⁷	12.00 ¹⁴	51.27 ³⁰	19.75 ⁰	47.46 ⁴⁶	14.91 ¹³
11	30.33 ⁴⁹	11.86 ¹⁵	50.97 ³²	19.75 ²	47.00 ⁴⁹	15.04 ¹²
12	29.84 ⁵⁰	11.71 ¹⁶	50.65 ³⁴	19.73 ⁴	46.51 ⁵³	15.16 ¹⁰
13	29.34 ⁴⁹	11.55 ¹⁹	50.31 ³⁴	19.69 ⁵	45.98 ⁵⁵	15.26 ⁹
14	28.85 ⁴⁷	11.36 ²¹	49.97 ³⁴	19.64 ⁸	45.43 ⁵⁶	15.35 ⁷
15	28.38 ⁴⁴	11.15 ²²	49.63 ³³	19.56 ¹⁰	44.87 ⁵⁶	15.42 ³
16	27.94	10.93	49.30	19.46	44.31	15.45
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0°.55 cos φ		- 0°.32 cos φ		- 0°.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m -7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 47'	16 ^h 26 ^m	-86° 12'	18 ^h 1 ^m	-87° 40'
Sept. 16	27.94 ⁴⁰	10.93 ²⁴	49.30 ³¹	19.46 ¹²	44.31 ⁵⁵	15.45 ²
17	27.54 ³⁶	10.69 ²⁵	48.99 ³⁰	19.34 ¹³	43.76 ⁵²	15.47 ¹
18	27.18 ³⁴	10.44 ²⁴	48.69 ²⁷	19.21 ¹³	43.24 ⁴⁹	15.48 ⁰
19	26.84 ³²	10.20 ²⁴	48.42 ²⁶	19.08 ¹¹	42.75 ⁴⁷	15.48 ⁰
20	26.52 ³¹	9.96 ²²	48.16 ²⁶	18.97 ¹¹	42.28 ⁴⁶	15.48 ¹
21	26.21 ³²	9.74 ²¹	47.90 ²⁶	18.86 ⁹	41.82 ⁴⁴	15.49 ¹
22	25.89 ³⁴	9.53 ²⁰	47.64 ²⁵	18.77 ⁹	41.38 ⁴⁴	15.50 ³
23	25.55 ³⁶	9.33 ¹⁹	47.39 ²⁷	18.68 ⁸	40.94 ⁴⁶	15.53 ⁴
24	25.19 ³⁷	9.14 ²¹	47.12 ²⁹	18.60 ⁸	40.48 ⁴⁹	15.57 ⁴
25	24.82 ³⁸	8.93 ²⁰	46.83 ²⁹	18.52 ¹⁰	39.99 ⁵¹	15.61 ³
26	24.44 ³⁹	8.73 ²²	46.54 ³⁰	18.42 ¹¹	39.48 ⁵³	15.64 ²
27	24.05 ³⁸	8.51 ²⁵	46.24 ³¹	18.31 ¹³	38.95 ⁵⁵	15.66 ⁰
28	23.67 ³⁴	8.26 ²⁶	45.93 ³⁰	18.18 ¹⁵	38.40 ⁵⁵	15.66 ³
29	23.33 ³¹	8.00 ²⁸	45.63 ²⁹	18.03 ¹⁸	37.85 ⁵⁴	15.63 ⁴
30	23.02 ²⁷	7.72 ³¹	45.34 ²⁶	17.85 ¹⁹	37.31 ⁵²	15.59 ⁷
Okt. 1	22.75 ²³	7.41 ³⁰	45.08 ²⁵	17.66 ²⁰	36.79 ⁴⁹	15.52 ⁸
2	22.52 ²¹	7.11 ²⁷	44.83 ²³	17.46 ¹⁹	36.30 ⁴⁷	15.44 ⁸
3	22.31 ¹⁹	6.84 ²⁷	44.60 ²¹	17.27 ¹⁸	35.83 ⁴⁶	15.36 ⁸
4	22.12 ¹⁹	6.57 ²⁶	44.39 ²¹	17.09 ¹⁸	35.37 ⁴³	15.28 ⁸
5	21.93 ²¹	6.31 ²⁴	44.18 ²²	16.91 ¹⁷	34.94 ⁴³	15.20 ⁶
6	21.72 ²³	6.07 ²³	43.96 ²²	16.74 ¹⁵	34.51 ⁴⁴	15.14 ⁵
7	21.49 ²⁵	5.84 ²⁵	43.74 ²³	16.59 ¹⁵	34.07 ⁴⁶	15.09 ⁵
8	21.24 ²⁶	5.59 ²⁵	43.51 ²⁴	16.44 ¹⁵	33.61 ⁴⁸	15.04 ⁴
9	20.98 ²⁷	5.34 ²⁶	43.27 ²⁶	16.29 ¹⁷	33.13 ⁵¹	15.00 ⁵
10	20.71 ²⁶	5.08 ²⁹	43.01 ²⁷	16.12 ¹⁹	32.62 ⁵⁴	14.95 ⁶
11	20.45 ²⁴	4.79 ³¹	42.74 ²⁶	15.93 ²²	32.08 ⁵³	14.89 ⁹
12	20.21 ²²	4.48 ³³	42.48 ²⁶	15.71 ²³	31.55 ⁵⁴	14.80 ¹²
13	19.99 ¹⁹	4.15 ³³	42.22 ²⁴	15.48 ²⁵	31.01 ⁵³	14.68 ¹³
14	19.80 ¹⁴	3.82 ³³	41.98 ²²	15.23 ²⁶	30.48 ⁵⁰	14.55 ¹⁶
15	19.66 ¹¹	3.49 ³²	41.76 ¹⁹	14.97 ²⁶	29.98 ⁴⁷	14.39 ¹⁶
16	19.55 ⁸	3.17 ³²	41.57 ¹⁸	14.71 ²⁶	29.51 ⁴³	14.23 ¹⁶
17	19.47 ⁵	2.85 ³⁰	41.39 ¹⁵	14.45 ²⁵	29.08 ⁴¹	14.07 ¹⁷
18	19.42 ⁶	2.55 ²⁸	41.24 ¹⁶	14.20 ²³	28.67 ³⁹	13.90 ¹⁵
19	19.36 ⁷	2.27 ²⁷	41.08 ¹⁵	13.97 ²²	28.28 ³⁸	13.75 ¹⁴
20	19.29 ⁹	2.00 ²⁶	40.93 ¹⁶	13.75 ²²	27.90 ⁴⁰	13.61 ¹²
21	19.20 ¹⁰	1.74 ²⁶	40.77 ¹⁸	13.53 ²¹	27.50 ⁴⁰	13.49 ¹¹
22	19.10 ¹³	1.48 ²⁸	40.59 ¹⁹	13.32 ²¹	27.10 ⁴²	13.38 ¹³
23	18.97	1.20	40.40	13.11	26.68	13.25

U. K. + 0°.55 cos φ
 U. K. - 0.55 cos φ

+ 0°.32 cos φ
 - 0.32 cos φ

+ 0°.52 cos φ
 - 0.52 cos φ

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m -7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 46'	16 ^h 26 ^m	-86° 12'	18 ^h 1 ^m	-87° 40'
Okt. 23	18.97 ¹³	61.20 ²⁹	40.40 ¹⁸	13.11 ²³	26.68 ⁴⁴	13.25 ¹³
24	18.84 ¹¹	60.91 ³¹	40.22 ¹⁹	12.88 ²⁵	26.24 ⁴⁵	13.12 ¹⁵
25	18.73 ⁷	60.60 ³²	40.03 ¹⁸	12.63 ²⁶	25.79 ⁴⁶	12.97 ¹⁷
26	18.66 ⁴	60.28 ³⁴	39.85 ¹⁷	12.37 ²⁹	25.33 ⁴⁵	12.80 ²⁰
27	18.62 ⁰	59.94 ³³	39.68 ¹⁵	12.08 ³⁰	24.88 ⁴³	12.60 ²¹
28	18.62 ³	59.61 ³⁴	39.53 ¹⁴	11.78 ³⁰	24.45 ⁴⁰	12.39 ²³
29	18.65 ⁷	59.27 ³³	39.39 ¹¹	11.48 ³¹	24.05 ³⁶	12.16 ²⁴
30	18.72 ⁸	58.94 ³²	39.28 ⁸	11.17 ³⁰	23.69 ³³	11.92 ²³
31	18.80 ¹⁰	58.62 ³⁰	39.20 ⁸	10.87 ²⁹	23.36 ³¹	11.69 ²³
Nov. 1	18.90 ⁹	58.32 ²⁸	39.12 ⁷	10.58 ²⁶	23.05 ³⁰	11.46 ²²
2	18.99 ⁷	58.04 ²⁸	39.05 ⁷	10.32 ²⁶	22.75 ³⁰	11.24 ¹⁹
3	19.06 ⁶	57.76 ²⁶	38.98 ⁹	10.06 ²⁵	22.45 ³⁰	11.05 ¹⁹
4	19.12 ³	57.50 ²⁸	38.89 ¹⁰	9.81 ²⁶	22.15 ³³	10.86 ¹⁹
5	{ 19.15 ²	{ 57.22 ²⁸	38.79 ¹²	9.55 ²⁵	21.82 ³⁵	10.67 ²⁰
	{ 19.17 ³	{ 56.94 ³⁰				
6	19.20 ⁴	56.64 ³²	38.67 ¹¹	9.30 ²⁷	21.47 ³⁶	10.47 ²⁰
7	19.24 ⁷	56.32 ³³	38.56 ¹²	9.03 ²⁹	21.11 ³⁷	10.27 ²¹
8	19.31 ¹⁰	55.99 ³⁴	38.44 ¹¹	8.74 ³¹	20.74 ³⁸	10.05 ²⁴
9	19.41 ¹⁵	55.65 ³⁴	38.33 ⁹	8.43 ³³	20.36 ³⁶	9.81 ²⁶
10	19.56 ¹⁸	55.31 ³⁴	38.24 ⁸	8.10 ³⁴	20.00 ³³	9.55 ²⁸
11	19.74 ²¹	54.97 ³²	38.16 ⁵	7.76 ³⁴	19.67 ³⁰	9.27 ³⁰
12	19.95 ²⁴	54.65 ³⁰	38.11 ²	7.42 ³³	19.37 ²⁷	8.97 ³⁰
13	20.19 ²⁴	54.35 ²⁸	38.09 ¹	7.09 ³²	19.10 ²³	8.67 ²⁹
14	20.43 ²⁴	54.07 ²⁶	38.08 ¹	6.77 ³¹	18.87 ²⁰	8.38 ²⁸
15	20.67 ²²	53.81 ²⁶	38.09 ¹	6.46 ²⁹	18.67 ¹⁹	8.10 ²⁶
16	20.89 ²¹	53.55 ²⁵	38.10 ¹	6.17 ²⁷	18.48 ¹⁷	7.84 ²⁵
17	21.10 ¹⁹	53.30 ²⁴	38.11 ⁰	5.90 ²⁷	18.31 ¹⁹	7.59 ²⁴
18	21.29 ¹⁷	53.06 ²⁶	38.11 ¹	5.63 ²⁶	18.12 ²¹	7.35 ²⁴
19	21.46 ¹⁹	52.80 ²⁸	38.10 ²	5.37 ²⁸	17.91 ²¹	7.11 ²⁴
20	21.65 ²¹	52.52 ²⁹	38.08 ²	5.09 ²⁸	17.70 ²⁴	6.87 ²⁶
21	21.86 ²⁴	52.23 ³⁰	38.06 ¹	4.81 ³¹	17.46 ²⁴	6.61 ²⁷
22	22.10 ²⁷	51.93 ³⁰	38.05 ¹	4.50 ³³	17.22 ²³	6.34 ³⁰
23	22.37 ³²	51.63 ³⁰	38.04 ²	4.17 ³⁴	16.99 ²⁰	6.04 ³¹
24	22.69 ³⁵	51.33 ²⁹	38.06 ⁴	3.83 ³⁴	16.79 ¹⁷	5.73 ³³
25	23.04 ³⁷	51.04 ²⁷	38.10 ⁶	3.49 ³⁴	16.62 ¹⁴	5.40 ³³
26	23.41 ³⁹	50.77 ²⁵	38.16 ⁸	3.15 ³³	16.48 ¹¹	5.07 ³⁴
27	23.80 ³⁹	50.52 ²³	38.24 ⁹	2.82 ³²	16.37 ⁸	4.73 ³³
28	24.19	50.29	38.33	2.50	16.29	4.40
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0°.55 cos φ		- 0°.32 cos φ		- 0°.52 cos φ	

Obere Kulmination.

1909	Octantis 20 G. 7 ^m .		Octantis 26 G. 6 ^m - 7 ^m .		χ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 42 ^m	-87° 46'	16 ^h 26 ^m	-86° 11'	18 ^h 1 ^m	-87° 39'
Nov. 28	24.19 ³⁸	50.29 ²²	38.33 ¹¹	62.50 ³⁰	16.29 ⁶	64.40 ³¹
29	24.57 ³⁵	50.07 ²¹	38.44 ¹⁰	62.20 ²⁸	16.23 ⁴	64.09 ³⁰
30	24.92 ³³	49.86 ²¹	38.54 ⁹	61.92 ²⁸	16.19 ⁵	63.79 ²⁸
Dez. 1	25.25 ³²	49.65 ²¹	38.63 ⁸	61.64 ²⁶	16.14 ⁶	63.51 ²⁸
2	25.57 ³¹	49.44 ²²	38.71 ⁸	61.38 ²⁶	16.08 ⁷	63.23 ²⁷
3	25.88 ³²	49.22 ²⁴	38.79 ⁶	61.12 ²⁸	16.01 ¹⁰	62.96 ²⁷
4	26.20 ³²	48.98 ²⁵	38.85 ⁶	60.84 ²⁹	15.91 ¹¹	62.69 ²⁹
5	26.53 ³³	48.73 ²⁶	38.91 ⁷	60.55 ³¹	15.80 ¹¹	62.40 ³¹
6	26.88 ⁴⁰	48.47 ²⁶	38.98 ⁹	60.24 ³²	15.69 ¹¹	62.09 ³²
7	27.28 ⁴⁵	48.21 ²⁶	39.07 ¹⁰	59.92 ³³	15.58 ⁸	61.77 ³⁵
8	27.73 ⁴⁷	47.95 ²⁴	39.17 ¹²	59.59 ³³	15.50 ⁴	61.42 ³⁶
9	28.20 ⁵⁰	47.71 ²²	39.29 ¹⁴	59.26 ³³	15.46 ⁰	61.06 ³⁵
10	28.70 ⁵⁰	47.49 ¹⁹	39.43 ¹⁷	58.93 ³²	15.46 ³	60.71 ³⁶
11	29.20 ⁵⁰	47.30 ¹⁸	39.60 ¹⁸	58.61 ³⁰	15.49 ⁷	60.35 ³⁴
12	29.70 ⁴⁸	47.12 ¹⁶	39.78 ¹⁹	58.31 ²⁷	15.56 ⁸	60.01 ³³
13	30.18 ⁴⁷	46.96 ¹⁵	39.97 ¹⁹	58.04 ²⁵	15.64 ¹⁰	59.68 ³⁰
14	30.65 ⁴⁴	46.81 ¹⁵	40.16 ¹⁹	57.79 ²⁵	15.74 ⁹	59.38 ²⁹
15	31.09 ⁴³	46.66 ¹⁵	40.35 ¹⁷	57.54 ²⁴	15.83 ⁹	59.09 ²⁹
16	31.52 ⁴³	46.51 ¹⁶	40.52 ¹⁶	57.30 ²³	15.92 ⁸	58.80 ²⁸
17	31.95 ⁴⁵	46.35 ¹⁸	40.68 ¹⁵	57.07 ²⁵	16.00 ⁵	58.52 ²⁹
18	32.40 ⁴⁷	46.17 ¹⁸	40.83 ¹⁶	56.82 ²⁶	16.05 ⁵	58.23 ³⁰
19	32.87 ⁴⁹	45.99 ¹⁹	40.99 ¹⁷	56.56 ²⁸	16.10 ⁶	57.93 ³¹
20	33.36 ⁵³	45.80 ¹⁸	41.16 ¹⁸	56.28 ²⁸	16.16 ⁷	57.62 ³⁴
21	33.89 ⁵⁶	45.62 ¹⁷	41.34 ²⁰	56.00 ³⁰	16.23 ¹⁰	57.28 ³⁵
22	34.45 ⁶⁰	45.45 ¹⁶	41.54 ²⁴	55.70 ²⁹	16.33 ¹⁴	56.93 ³⁶
23	35.05 ⁶¹	45.29 ¹⁴	41.78 ²⁴	55.41 ²⁸	16.47 ¹⁷	56.57 ³⁶
24	35.66 ⁶⁰	45.15 ¹²	42.02 ²⁶	55.13 ²⁷	16.64 ²⁰	56.21 ³⁵
25	36.26 ⁵⁹	45.03 ⁹	42.28 ²⁷	54.86 ²⁵	16.84 ²³	55.86 ³³
26	36.85 ⁵⁷	44.94 ⁸	42.55 ²⁷	54.61 ²³	17.07 ²⁴	55.53 ³¹
27	37.42 ⁵⁵	44.86 ⁷	42.82 ²⁷	54.38 ²¹	17.31 ²⁵	55.22 ³⁰
28	37.97 ⁵²	44.79 ⁸	43.09 ²⁵	54.17 ²⁰	17.56 ²³	54.92 ²⁸
29	38.49 ⁵⁰	44.71 ⁸	43.34 ²⁴	53.97 ²⁰	17.79 ²²	54.64 ²⁸
30	38.99 ⁵¹	44.63 ¹⁰	43.58 ²³	53.77 ²⁰	18.01 ²⁰	54.36 ²⁷
31	39.50 ⁵²	44.53 ¹⁰	43.81 ²²	53.57 ²⁰	18.21 ¹⁸	54.09 ²⁸
32	40.02	44.43	44.03 ²³	53.37 ²²	18.39 ¹⁸	53.81 ²⁹
	40.02	44.43	44.26	53.15	18.57	53.52
O. K.	+ 0°.55 cos φ		+ 0°.32 cos φ		+ 0°.52 cos φ	
U. K.	- 0.55 cos φ		- 0.32 cos φ		- 0.52 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 12 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 14 ^m	-87° 59'
Jan. 0	35.18 ⁴	30.29 ³⁶	41.63 ¹³	57.23 ²²	30.14 ⁵⁸	21.71 ¹⁸
1	35.22 ¹²	29.93 ³⁷	41.50 ¹¹	57.01 ²³	29.56 ⁶⁰	21.53 ²¹
2	35.34 ²³	29.56 ³⁸	41.39 ¹²	56.78 ²⁶	28.96 ⁵⁷	21.32 ²²
3	35.57 ³⁵	29.18 ³⁸	41.27 ¹¹	56.52 ²⁷	28.39 ⁵⁴	21.10 ²⁴
4	35.92 ⁴⁴	28.80 ³⁶	41.16 ¹⁰	56.25 ²⁶	27.85 ⁵⁰	20.86 ²⁵
5	36.36 ⁵⁰	28.44 ³⁴	41.06 ⁸	55.99 ²⁷	27.35 ⁴⁷	20.61 ²⁵
6	36.86 ⁵²	28.10 ³³	40.98 ⁷	55.72 ²⁷	26.88 ⁴²	20.36 ²⁴
7	{ 37.38 ⁵²	{ 27.77 ³¹	40.91 ⁷	55.45 ²⁴	26.46 ⁴¹	20.12 ²⁴
8	{ 37.90 ⁴⁸	{ 27.46 ³¹	40.84 ⁸	55.21 ²⁴	26.05 ⁴⁰	19.88 ²¹
	38.38 ⁴²	27.15 ²⁹	40.76 ⁷	54.97 ²³	25.65 ⁴¹	19.67 ²¹
9	38.80 ³⁶	26.86 ³⁰	40.69 ⁸	54.74 ²²	25.24 ⁴²	19.46 ²¹
10	39.16 ³⁴	26.56 ³¹	40.61 ⁸	54.52 ²³	24.82 ⁴⁵	19.25 ²¹
11	39.50 ³⁵	26.25 ³³	40.53 ⁸	54.29 ²³	24.37 ⁴⁸	19.04 ²²
12	39.85 ³⁷	25.92 ³⁴	40.43 ¹⁰	54.06 ²⁶	23.89 ⁵⁰	18.82 ²⁴
13	40.22 ⁴⁵	25.58 ³⁷	40.34 ¹⁰	53.80 ²⁸	23.39 ⁵⁰	18.58 ²⁵
14	40.67 ⁵⁶	25.21 ³⁷	40.24 ⁹	53.52 ³⁰	22.89 ⁴⁹	18.33 ²⁸
15	41.23 ⁶⁷	24.84 ³⁷	40.15 ⁸	53.22 ³²	22.40 ⁴⁷	18.05 ²⁹
16	41.90 ⁷⁹	24.47 ³⁶	40.07 ⁷	52.90 ³⁴	21.93 ⁴⁴	17.76 ³¹
17	42.69 ⁹⁰	24.11 ³⁴	40.00 ⁷	52.56 ³⁴	21.49 ⁴⁰	17.45 ³²
18	43.59 ⁹⁵	23.77 ³³	39.93 ⁶	52.22 ³³	21.09 ³⁵	17.13 ³²
19	44.54 ⁹⁸	23.44 ³¹	39.87 ⁴	51.89 ³¹	20.74 ³²	16.81 ³²
20	45.52 ⁹⁶	23.13 ²⁹	39.83 ⁴	51.58 ³¹	20.42 ³⁰	16.49 ³¹
21	46.48 ⁹¹	22.84 ²⁹	39.79 ⁵	51.27 ³⁰	20.12 ²⁹	16.18 ²⁹
22	47.39 ⁸⁷	22.55 ²⁸	39.74 ⁴	50.97 ²⁹	19.83 ³⁰	15.89 ²⁸
23	48.26 ⁸²	22.27 ²⁹	39.70 ⁵	50.68 ³⁰	19.53 ³³	15.61 ²⁸
24	49.08 ⁷⁹	21.98 ³⁰	39.65 ⁵	50.38 ²⁹	19.20 ³⁴	15.33 ²⁸
25	49.87 ⁷⁹	21.68 ³¹	39.60 ⁷	50.09 ³⁰	18.86 ³⁷	15.05 ²⁹
26	50.66 ⁸³	21.37 ³³	39.53 ⁶	49.79 ³²	18.49 ⁴⁰	14.76 ³⁰
27	51.49 ⁹⁰	21.04 ³⁴	39.47 ⁷	49.47 ³⁴	18.09 ³⁹	14.46 ³²
28	52.39 ¹⁰⁰	20.70 ³⁵	39.40 ⁵	49.13 ³⁵	17.70 ³⁷	14.14 ³⁵
29	53.39 ¹¹¹	20.35 ³⁵	39.35 ⁵	48.78 ³⁷	17.33 ³⁴	13.79 ³⁶
30	54.50 ¹²⁰	20.00 ³³	39.30 ⁵	48.41 ³⁸	16.99 ³⁰	13.43 ³⁷
Febr. 1	55.70 ¹²⁷	19.67 ³¹	39.25 ³	48.03 ³⁷	16.69 ²⁷	13.06 ³⁶
2	56.97 ¹³⁰	19.36 ³⁰	39.22 ²	47.66 ³⁷	16.42 ²³	12.70 ³⁶
	58.27 ¹³¹	19.06 ²⁷	39.20 ¹	47.29 ³⁵	16.19 ¹⁹	12.34 ³⁶
3	59.58 ¹²⁶	18.79 ²⁵	39.19 ¹	46.94 ³⁴	16.00 ¹⁹	11.98 ³⁴
4	60.84 ¹²¹	18.54 ²⁵	39.18	46.60	15.81	11.64
5	62.05	18.29				
O. K.	+ 0°.61 cos φ		+ 0°.15 cos φ		+ 0°.61 cos φ	
U. K.	- 1.61 cos φ		- 0.15 cos φ		- 0.61 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 13 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 14 ^m	-87° 58'
Febr. 5	2.05	18.29	39.18	46.60	15.81	71.64
6	3.20 ¹¹⁵	18.05 ²⁴	39.16 ²	46.28 ³²	15.64 ¹⁷	71.31 ³³
7	4.30 ¹⁰⁷	17.79 ²⁶	39.15 ²	45.97 ³¹	15.44 ²¹	71.00 ³¹
8	5.37 ¹⁰⁹	17.53 ²⁸	39.13 ³	45.66 ³²	15.23 ²⁴	70.69 ³²
9	6.46 ¹¹⁵	17.25 ³⁰	39.10 ⁴	45.34 ³³	14.99 ²⁵	70.37 ³³
10	7.61 ¹²²	16.95 ³⁰	39.06 ²	45.01 ³⁵	14.74 ²⁷	70.04 ³⁴
11	8.83 ¹³⁴	16.65 ³¹	39.04 ⁴	44.66 ³⁷	14.47 ²⁶	69.70 ³⁶
12	10.17 ¹⁴⁵	16.34 ²⁹	39.00 ²	44.29 ³⁹	14.21 ²⁴	69.34 ³⁹
13	11.62 ¹⁵⁵	16.05 ²⁹	38.98 ¹	43.90 ³⁹	13.97 ²⁰	68.95 ³⁹
14	13.17 ¹⁶¹	15.76 ²⁷	38.97 ⁰	43.51 ⁴¹	13.77 ¹⁷	68.56 ⁴¹
15	14.78 ¹⁶⁴	15.49 ²⁴	38.97 ⁰	43.10 ⁴⁰	13.60 ¹³	68.15 ⁴⁰
16	16.42 ¹⁶³	15.25 ²³	38.97 ¹	42.70 ⁴⁰	13.47 ⁸	67.75 ⁴⁰
17	18.05 ¹⁶⁰	15.02 ²⁰	38.98 ²	42.30 ³⁸	13.39 ⁶	67.35 ³⁸
18	19.65 ¹⁵³	14.82 ²¹	39.00 ³	41.92 ³⁶	13.33 ⁵	66.97 ³⁸
19	21.18 ¹⁴⁷	14.61 ²⁰	39.03 ²	41.56 ³⁵	13.28 ⁴	66.59 ³⁷
20	22.65 ¹⁴³	14.41 ²²	39.05 ²	41.21 ³⁵	13.24 ⁶	66.22 ³⁵
21	24.08 ¹³⁹	14.19 ²³	39.07 ¹	40.86 ³⁴	13.18 ⁹	65.87 ³⁵
22	25.47 ¹⁴³	13.96 ²⁴	39.08 ¹	40.52 ³⁴	13.09 ¹⁰	65.52 ³⁵
23	26.90 ¹⁴⁷	13.72 ²⁵	39.09 ⁰	40.18 ³⁶	12.99 ¹³	65.17 ³⁷
24	28.37 ¹⁵⁵	13.47 ²⁶	39.09 ⁰	39.82 ³⁸	12.86 ¹⁴	64.80 ³⁸
25	29.92 ¹⁶⁴	13.21 ²⁵	39.09 ⁰	39.44 ³⁹	12.72 ¹²	64.42 ³⁹
26	31.56 ¹⁷³	12.96 ²⁴	39.09 ²	39.05 ⁴⁰	12.60 ¹⁰	64.03 ⁴²
27	33.29 ¹⁸²	12.72 ²³	39.11 ²	38.65 ⁴¹	12.50 ⁶	63.61 ⁴²
28	35.11 ¹⁸⁴	12.49 ²⁰	39.13 ³	38.24 ⁴²	12.44 ³	63.19 ⁴²
März 1	36.95 ¹⁸⁵	12.29 ¹⁹	39.16 ⁴	37.82 ⁴⁰	12.41 ²	62.77 ⁴²
2	38.80 ¹⁸¹	12.10 ¹⁷	39.20 ⁵	37.42 ³⁹	12.43 ⁶	62.35 ⁴⁰
3	40.61 ¹⁷⁵	11.93 ¹⁵	39.25 ⁵	37.03 ³⁶	12.49 ⁸	61.95 ⁴⁰
4	42.36 ¹⁶⁸	11.78 ¹⁵	39.30 ⁶	36.67 ³⁶	12.57 ⁸	61.55 ³⁷
5	44.04 ¹⁶¹	11.63 ¹⁴	39.36 ⁵	36.31 ³⁵	12.65 ⁸	61.18 ³⁶
6	45.65 ¹⁵⁶	11.49 ¹⁵	39.41 ⁵	35.96 ³³	12.73 ⁶	60.82 ³⁵
7	47.21 ¹⁵⁵	11.49 ¹⁵	39.46 ³	35.63 ³³	12.79 ⁴	60.47 ³⁵
8	48.76 ¹⁵⁸	11.34 ¹⁷	39.49 ⁴	35.30 ³⁴	12.83 ¹	60.12 ³⁵
9	50.34 ¹⁵⁸	11.17 ¹⁹	39.53 ³	34.96 ³⁶	12.84 ¹	59.77 ³⁷
10	51.98 ¹⁶⁴	10.98 ¹⁹	39.56 ⁴	34.60 ³⁷	12.85 ⁰	59.40 ³⁸
11	53.72 ¹⁷⁴	10.79 ¹⁹	39.60 ³	34.23 ³⁹	12.85 ⁰	59.02 ⁴⁰
12	55.55 ¹⁸³	10.60 ²⁰	39.63 ⁵	33.84 ⁴⁰	12.85 ⁴	58.62 ⁴¹
	55.55	10.40	39.68	33.44	12.89	58.21

O. K. + 1°.60 cos φ
 U. K. - 1.60 cos φ

+ 0°.15 cos φ
 - 0.15 cos φ

+ 0°.61 cos φ
 - 0.61 cos φ

Obere Kulmination.

1909	σ Octantis. 6 ^m .		β Octantis. 4 ^m —5 ^m .		τ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 13 ^m	—89° 14'	22 ^h 36 ^m	—81° 51'	23 ^h 14 ^m	—87° 58'
März 12	55.55 ¹⁹³	10.40 ¹⁸	39.68 ⁶	33.44 ⁴¹	12.89 ⁸	58.21 ⁴⁵
13	57.48 ¹⁹⁹	10.22 ¹⁷	39.74 ⁶	33.03 ⁴⁰	12.97 ¹²	57.78 ⁴⁵
14	59.47 ²⁰³	10.05 ¹⁴	39.80 ⁷	32.63 ⁴⁰	13.09 ¹⁶	57.36 ⁴⁵
15	61.50 ²⁰³	9.91 ¹²	39.87 ⁹	32.23 ³⁷	13.25 ²⁰	56.94 ⁴⁵
16	63.53 ¹⁹⁸	9.79 ¹⁰	39.96 ⁹	31.86 ³⁷	13.45 ²¹	56.54 ³⁹
17	65.51 ¹⁹³	9.69 ⁹	40.05 ⁹	31.49 ³⁴	13.66 ²²	56.15 ⁵
18	67.44 ¹⁸⁵	9.60 ⁹	40.14 ⁸	31.15 ³⁴	13.88 ²¹	55.78 ⁵
19	69.29 ¹⁷⁸	9.51 ⁹	40.22 ⁷	30.81 ³³	14.09 ¹⁸	55.41 ³⁵
20	71.07 ¹⁷⁴	9.42 ¹⁰	40.29 ⁷	30.48 ³³	14.27 ¹⁷	55.06 ³⁵
21	72.81 ¹⁷³	9.32 ¹¹	40.36 ⁷	30.15 ³³	14.44 ¹⁴	54.71 ³⁶
22	74.54 ¹⁷⁷	9.21 ¹³	40.43 ⁶	29.82 ³⁶	14.58 ¹²	54.35 ⁵
23	76.31 ¹⁸¹	9.08 ¹⁴	40.49 ⁷	29.46 ³⁶	14.70 ¹⁴	53.98 ³⁹
24	78.12 ¹⁸⁹	8.94 ¹⁴	40.56 ⁷	29.10 ³⁷	14.84 ¹⁴	53.59 ⁴⁵
25	80.01 ¹⁹⁸	8.80 ¹³	40.63 ⁹	28.73 ³⁹	14.98 ¹⁸	53.19 ⁴⁵
26	81.99 ²⁰⁴	8.67 ¹⁰	40.72 ⁹	28.34 ³⁹	15.16 ²²	52.79 ⁴⁵
27	84.03 ²⁰⁹	8.57 ⁹	40.81 ⁹	27.95 ³⁸	15.38 ²⁵	52.39 ⁴⁴
28	86.12 ²⁰⁹	8.48 ⁷	40.90 ¹¹	27.57 ³⁶	15.63 ³⁰	51.98 ³⁹
29	88.21 ²⁰⁷	8.41 ⁵	41.01 ¹¹	27.21 ³⁴	15.93 ³²	51.59 ³⁵
30	90.28 ²⁰⁰	8.36 ⁴	41.12 ¹¹	26.87 ³¹	16.25 ³⁴	51.21 ³⁵
31	92.28 ¹⁹²	8.32 ²	41.23 ¹¹	26.56 ³¹	16.59 ³³	50.85 ³³
April 1	94.20 ¹⁸³	8.30 ²	41.34 ¹¹	26.25 ³¹	16.92 ³²	50.52 ³³
2	96.03 ¹⁷⁷	8.28 ²	41.45 ¹⁰	25.94 ²⁹	17.24 ²⁹	50.19 ³¹
3	97.80 ¹⁷²	8.26 ⁴	41.55 ⁹	25.65 ²⁹	17.53 ²⁸	49.88 ³¹
4	99.52 ¹⁷³	8.22 ⁵	41.64 ⁹	25.36 ³¹	17.81 ²⁴	49.56 ³³
5	101.25 ¹⁷⁷	8.17 ⁶	41.73 ¹⁰	25.05 ³¹	18.05 ²³	49.23 ³³
6	103.02 ¹⁸⁴	8.11 ⁷	41.83 ⁹	24.74 ³³	18.28 ²⁵	48.90 ³⁶
7	104.86 ¹⁹¹	8.04 ⁶	41.92 ⁹	24.41 ³⁵	18.53 ²⁷	48.54 ³⁵
8	106.77 ²⁰¹	7.98 ⁶	42.01 ¹¹	24.06 ³⁴	18.80 ³⁰	48.17 ³⁵
9	108.78 ²⁰⁸	7.92 ⁴	42.12 ¹²	23.72 ³⁵	19.10 ³⁴	47.78 ³⁵
10	110.86 ²¹²	7.88 ²	42.24 ¹³	23.37 ³⁴	19.44 ³⁸	47.40 ³⁵
11	112.98 ²¹²	7.86 ⁰	42.37 ¹³	23.03 ³³	19.82 ⁴²	47.02 ³⁶
12	115.10 ²⁰⁹	7.86 ³	42.50 ¹⁴	22.70 ³⁰	20.24 ⁴⁴	46.66 ³⁴
13	117.19 ²⁰¹	7.89 ⁴	42.64 ¹⁴	22.40 ²⁹	20.68 ⁴⁶	46.32 ³³
14	119.20 ¹⁹³	7.93 ⁴	42.78 ¹⁴	22.11 ²⁸	21.14 ⁴⁴	45.99 ³¹
15	121.13 ¹⁸⁵	7.97 ⁴	42.92 ¹³	21.83 ²⁶	21.58 ⁴²	45.68 ²⁹
16	122.98 ¹⁷⁸	8.01 ³	43.05 ¹³	21.57 ²⁶	22.00 ⁴⁰	45.39 ²⁹
17	124.76 ¹⁷⁶	8.04 ²	43.18 ¹²	21.31 ²⁶	22.40 ³⁸	45.10 ²⁶
18	126.52	8.06	43.30	21.05	22.78	44.81
O. K.	+ 1°.60 cos φ		+ 0°.15 cos φ		+ 0°.61 cos φ	
U. K.	— 1°.60 cos φ		— 0°.15 cos φ		— 0°.61 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 15 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 14 ^m	-87° 58'
April 18	6.52	8.06	43.30	21.05	22.78	44.81
19	8.27 ¹⁷⁵	8.07 ¹	43.41 ¹¹	20.77 ²⁸	23.13 ³⁵	44.50 ³¹
20	10.06 ¹⁷⁹	8.07 ⁰	43.53 ¹²	20.49 ²⁸	23.48 ³⁵	44.18 ³²
21	11.92 ¹⁸⁶	8.07 ⁰	43.65 ¹²	20.20 ²⁹	23.83 ³⁵	43.84 ³⁴
22	13.85 ¹⁹³	8.07 ⁰	43.77 ¹²	19.90 ³⁰	24.20 ³⁷	43.49 ³⁵
23	15.84 ¹⁹⁹	8.08 ¹	43.90 ¹³	19.59 ³¹	24.63 ⁴³	43.16 ³³
24	17.87 ²⁰³	8.11 ³	44.05 ¹⁵	19.29 ³⁰	25.08 ⁴⁵	42.83 ³³
25	19.92 ²⁰⁵	8.11 ⁶	44.20 ¹⁶	19.01 ²⁷	25.57 ⁵³	42.51 ³²
26	21.93 ²⁰¹	8.17 ⁸	44.36 ¹⁵	18.74 ²⁷	26.10 ⁵⁹	42.22 ²⁹
27	23.89 ¹⁹⁶	8.25 ⁹	44.51 ¹⁵	18.49 ²⁵	26.63 ⁵³	41.94 ²⁸
28	25.75 ¹⁸⁶	8.34 ¹¹	44.51 ¹⁶	18.49 ²²	26.63 ⁵⁵	41.94 ²⁷
29	27.51 ¹⁷⁶	8.45 ¹¹	44.67 ¹⁶	18.27 ²⁰	27.18 ⁵³	41.67 ²⁴
30	29.19 ¹⁶⁸	8.56 ¹¹	44.83 ¹⁴	18.07 ²⁰	27.71 ⁴⁹	41.43 ²⁴
Mai 1	30.81 ¹⁶²	8.67 ¹⁰	44.97 ¹⁴	17.87 ¹⁹	28.20 ⁴⁸	41.19 ²³
2	32.41 ¹⁶⁰	8.77 ⁹	45.11 ¹⁴	17.68 ²⁰	28.68 ⁴⁵	40.96 ²⁴
3	34.02 ¹⁶¹	8.86 ⁷	45.25 ¹³	17.48 ²¹	29.13 ⁴³	40.72 ²⁴
4	35.67 ¹⁶⁵	8.93 ⁷	45.38 ¹³	17.27 ²³	29.56 ⁴⁴	40.48 ²⁶
5	37.40 ¹⁷³	9.00 ⁶	45.51 ¹⁴	17.04 ²⁴	30.00 ⁴⁴	40.22 ²⁶
6	39.21 ¹⁸¹	9.06 ⁷	45.65 ¹⁴	16.80 ²⁵	30.44 ⁴⁷	39.96 ²⁸
7	41.08 ¹⁸⁷	9.13 ⁹	45.79 ¹⁶	16.55 ²⁵	30.91 ⁵¹	39.68 ²⁹
8	43.00 ¹⁹²	9.22 ¹⁰	45.95 ¹⁶	16.30 ²⁴	31.42 ⁵⁴	39.39 ²⁷
9	44.92 ¹⁹²	9.32 ¹²	46.11 ¹⁷	16.06 ²²	31.96 ⁵⁸	39.12 ²⁷
10	46.81 ¹⁸⁹	9.44 ¹⁴	46.28 ¹⁷	15.84 ²⁰	32.54 ⁶¹	38.85 ²⁶
11	48.63 ¹⁸²	9.58 ¹⁶	46.45 ¹⁷	15.64 ¹⁹	33.15 ⁶³	38.59 ²³
12	50.37 ¹⁷⁴	9.74 ¹⁷	46.62 ¹⁸	15.45 ¹⁷	33.78 ⁶²	38.36 ²²
13	52.00 ¹⁶³	9.91 ¹⁷	46.80 ¹⁷	15.28 ¹⁵	34.40 ⁶⁰	38.14 ¹⁹
14	53.56 ¹⁵⁶	10.08 ¹⁷	46.97 ¹⁶	15.13 ¹⁵	35.00 ⁵⁷	37.95 ¹⁹
15	55.06 ¹⁵⁰	10.25 ¹⁶	47.13 ¹⁵	14.98 ¹⁴	35.57 ⁵⁴	37.76 ¹⁸
16	56.53 ¹⁴⁷	10.41 ¹⁴	47.28 ¹⁵	14.84 ¹⁶	36.11 ⁵²	37.58 ¹⁹
17	58.03 ¹⁵⁰	10.55 ¹³	47.43 ¹⁵	14.68 ¹⁶	36.63 ⁵⁰	37.39 ²⁰
18	59.57 ¹⁵⁴	10.68 ¹²	47.58 ¹⁵	14.52 ¹⁶	37.13 ⁵⁰	37.19 ²¹
19	61.16 ¹⁵⁹	10.80 ¹²	47.73 ¹⁵	14.36 ¹⁸	37.63 ⁵²	36.98 ²¹
20	62.82 ¹⁶⁶	10.92 ¹²	47.88 ¹⁵	14.18 ¹⁸	38.15 ⁵⁴	36.77 ²¹
21	64.53 ¹⁷¹	11.04 ¹⁵	48.03 ¹⁷	14.00 ¹⁸	38.69 ⁵⁹	36.56 ²²
22	66.23 ¹⁷⁰	11.19 ¹⁷	48.20 ¹⁸	13.82 ¹⁶	39.28 ⁶¹	36.34 ²¹
23	67.92 ¹⁶⁹	11.36 ¹⁹	48.38 ¹⁸	13.66 ¹⁶	39.89 ⁶⁵	36.13 ¹⁹
24	69.55 ¹⁶³	11.55 ²¹	48.56 ¹⁸	13.50 ¹³	40.54 ⁶⁷	35.94 ¹⁸
25	71.09 ¹⁵⁴	11.76 ²²	48.74 ¹⁸	13.37 ¹⁰	41.21 ⁶⁷	35.76 ¹⁵
		11.98	48.92	13.27	41.88	35.61
O. K.	+ 1°.60 cos φ		+ 0°.15 cos φ		+ 0°.60 cos φ	
U. K.	- 1°.60 cos φ		- 0°.15 cos φ		- 0°.60 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		γ Octantis. 6 ^m .			
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.		
	19 ^h 16 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 14 ^m	-87° 58'		
Mai	25	11.09	11.98	48.92	13.27	41.88	35.61	
	26	12.53	12.22	49.11	13.19	42.54	35.48	
	27	13.86	12.46	49.28	13.11	43.18	35.37	
	28	15.11	12.68	49.45	13.05	43.79	35.26	
	29	16.32	12.89	49.60	12.98	44.37	35.16	
	30	17.50	13.09	49.75	12.91	44.91	35.05	
	31	18.72	13.27	49.90	12.83	45.46	34.93	
	Juni	1	20.00	13.44	50.04	12.72	46.01	34.79
		2	21.34	13.62	50.20	12.62	46.57	34.65
		3	22.74	13.81	50.37	12.51	47.17	34.51
4		24.18	14.02	50.54	12.41	47.79	34.36	
5		25.64	14.24	50.72	12.32	48.45	34.22	
6		27.08	14.49	50.91	12.24	49.14	34.10	
7		28.45	14.76	51.10	12.19	49.85	34.00	
8		29.72	15.03	51.28	12.16	50.55	33.92	
9		30.90	15.31	51.47	12.14	51.23	33.86	
10		31.98	15.59	51.64	12.13	51.89	33.81	
11	32.98	15.84	51.81	12.13	52.52	33.77		
12	33.94	16.09	51.96	12.13	53.10	33.73		
13	34.89	16.32	52.12	12.12	53.67	33.68		
14	35.86	16.55	52.27	12.10	54.24	33.63		
15	36.88	16.77	52.43	12.06	54.80	33.56		
16	37.95	16.99	52.58	12.02	55.39	33.48		
17	39.08	17.22	52.74	11.98	56.02	33.40		
18	40.22	17.48	52.91	11.96	56.66	33.34		
19	41.35	17.75	53.09	11.95	57.34	33.28		
20	42.42	18.05	53.27	11.96	58.03	33.25		
21	43.41	18.37	53.46	11.99	58.73	33.23		
22	44.28	18.69	53.63	12.05	59.43	33.25		
23	45.04	19.01	53.80	12.13	60.10	33.28		
24	45.70	19.31	53.96	12.21	60.74	33.32		
25	46.29	19.61	54.11	12.30	61.34	33.37		
26	46.85	19.89	54.26	12.37	61.91	33.42		
27	47.40	20.16	54.40	12.44	62.46	33.46		
28	47.99	20.42	54.54	12.49	63.00	33.48		
29	48.64	20.67	54.69	12.54	63.56	33.49		
30	49.36	20.92	54.83	12.58	64.13	33.50		
Juli	1	50.14	21.19	54.99	12.62	64.73	33.50	
O. K.	+ 1°.60 cos φ		+ 0°.15 cos φ		+ 0°.60 cos φ			
U. K.	- 1°.60 cos φ		- 0°.15 cos φ		- 0°.60 cos φ			

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m -5 ^m .		τ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 16 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 15 ^m	-87° 58'
Juli 1	50.14 ⁷⁷	21.19 ²⁹	54.99 ¹⁶	12.62 ⁵	4.73 ⁶³	33.50 ²
2	50.91 ⁷⁵	21.48 ³¹	55.15 ¹⁷	12.67 ⁷	5.36 ⁶⁷	33.52 ²
3	51.66 ⁷¹	21.79 ³³	55.32 ¹⁷	12.74 ⁸	6.03 ⁶⁷	33.54 ⁵
4	52.37 ⁶²	22.12 ³³	55.49 ¹⁷	12.82 ¹¹	6.70 ⁶⁷	33.59 ⁶
5	52.99 ⁵²	22.45 ³⁵	55.66 ¹⁶	12.93 ¹²	7.37 ⁶⁷	33.65 ⁹
6	53.51 ⁴⁰	22.80 ³³	55.82 ¹⁶	13.05 ¹⁴	8.04 ⁶³	33.74 ¹⁰
7	53.91 ³²	23.13 ³³	55.98 ¹⁴	13.19 ¹⁴	8.67 ⁶⁰	33.84 ¹¹
8	54.23 ²⁵	23.46 ³¹	56.12 ¹⁴	13.33 ¹⁵	9.27 ⁵⁶	33.95 ¹¹
9	54.48 ²³	23.77 ²⁹	56.26 ¹²	13.48 ¹³	9.83 ⁵³	34.06 ¹¹
10	54.71 ²⁴	24.06 ²⁸	56.38 ¹³	13.61 ¹²	10.36 ⁵¹	34.17 ⁹
11	54.95 ²⁶	24.34 ²⁷	56.51 ¹²	13.73 ¹²	10.87 ⁵⁰	34.26 ⁹
12	55.21 ³²	24.61 ²⁷	56.63 ¹³	13.85 ¹⁰	11.37 ⁵¹	34.35 ⁷
13	55.53 ³⁶	24.88 ²⁸	56.76 ¹³	13.95 ¹¹	11.88 ⁵³	34.42 ⁸
14	55.89 ³⁹	25.16 ²⁹	56.89 ¹⁵	14.06 ¹¹	12.41 ⁵⁶	34.50 ⁸
15	56.28 ³⁸	25.45 ³¹	57.04 ¹⁴	14.17 ¹²	12.97 ⁵⁸	34.58 ⁹
16	56.66 ³⁴	25.76 ³²	57.18 ¹⁴	14.29 ¹⁵	13.55 ⁶¹	34.67 ¹¹
17	57.00 ²⁸	26.08 ³⁵	57.32 ¹⁵	14.44 ¹⁶	14.16 ⁶³	34.78 ¹³
18	57.28 ¹⁶	26.43 ³⁵	57.47 ¹⁵	14.60 ¹⁹	14.79 ⁶¹	34.91 ¹⁵
19	57.44 ³	26.78 ³⁶	57.62 ¹⁴	14.79 ²¹	15.40 ⁵⁸	35.06 ¹⁷
20	57.47 ⁸	27.14 ³⁴	57.76 ¹³	15.00 ²²	15.98 ⁵⁵	35.23 ²⁰
21	57.39 ¹⁶	27.48 ³³	57.89 ¹²	15.22 ²²	16.53 ⁵²	35.43 ¹⁹
22	57.23 ²²	27.81 ³²	58.01 ¹⁰	15.44 ²¹	17.05 ⁴⁸	35.62 ¹⁹
23	57.01 ²³	28.13 ²⁹	58.11 ¹¹	15.65 ²¹	17.53 ⁴⁴	35.81 ¹⁹
24	56.78 ²¹	28.42 ²⁸	58.22 ¹⁰	15.86 ¹⁹	17.97 ⁴³	36.00 ¹⁸
25	56.57 ¹⁶	28.70 ²⁸	58.32 ⁹	16.05 ¹⁹	18.40 ⁴²	36.18 ¹⁶
26	56.41 ⁹	28.98 ²⁷	58.41 ¹⁰	16.24 ¹⁷	18.82 ⁴⁴	36.34 ¹⁵
27	56.32 ⁵	29.25 ²⁸	58.51 ¹¹	16.41 ¹⁷	19.26 ⁴⁷	36.49 ¹⁵
28	56.27 ²	29.53 ²⁹	58.62 ¹¹	16.58 ¹⁸	19.73 ⁴⁸	36.64 ¹⁴
29	56.25 ²	29.82 ³⁰	58.73 ¹²	16.76 ¹⁸	20.21 ⁵¹	36.78 ¹⁶
30	56.23 ⁷	30.12 ³³	58.85 ¹²	16.94 ²¹	20.72 ⁵³	36.94 ¹⁸
31	56.16 ¹³	30.45 ³⁴	58.97 ¹²	17.15 ²²	21.25 ⁵³	37.12 ¹⁹
Aug. 1	56.03 ²⁴	30.79 ³⁴	59.09 ¹¹	17.37 ²⁴	21.78 ⁵¹	37.31 ²¹
2	55.79 ³⁵	31.13 ³³	59.20 ¹²	17.61 ²⁶	22.29 ⁴⁹	37.52 ²⁴
3	55.44 ⁴⁶	31.46 ³³	59.32 ⁹	17.87 ²⁶	22.78 ⁴⁵	37.76 ²⁴
4	54.98 ⁵²	31.78 ³²	59.41 ⁸	18.13 ²⁷	23.23 ⁴¹	38.00 ²⁵
5	54.46 ⁵⁷	32.10 ²⁹	59.49 ⁸	18.40 ²⁶	23.64 ³⁷	38.25 ²⁴
6	53.89 ⁵⁷	32.39 ²⁸	59.57 ⁷	18.66 ²⁴	24.01 ³⁴	38.49 ²⁴
7	53.32	32.67	59.64	18.90	24.35	38.73
O. K.	+ 1°.61 cos φ		+ 0°.15 cos φ		+ 0°.60 cos φ	
U. K.	- 1°.61 cos φ		- 0°.15 cos φ		- 0°.60 cos φ	

Obere Kulmination.

1909	σ Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		τ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 16 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 15 ^m	-87° 58'
Aug. 7	53.32	32.67	59.64	18.90	24.35	38.73
8	52.77 ⁵⁵	32.92 ²⁵	59.71 ⁷	19.13 ²³	24.66 ³¹	38.95 ²²
9	52.28 ⁴⁹	33.17 ²⁵	59.78 ⁷	19.35 ²²	24.99 ³³	39.16 ²¹
10	51.83 ⁴⁵	33.42 ²⁵	59.85 ⁷	19.56 ²¹	25.33 ³⁴	39.35 ²⁰
11	51.41 ⁴²	33.69 ²⁷	59.94 ⁹	19.78 ²²	25.69 ³⁶	39.55 ²⁰
12	51.00 ⁴¹	33.96 ²⁷	60.02 ⁸	20.01 ²³	26.07 ³⁸	39.76 ²¹
13	50.57 ⁴³	34.25 ²⁹	60.11 ⁹	20.25 ²⁴	26.48 ⁴¹	39.99 ²³
14	50.07 ⁵⁰	34.56 ³¹	60.19 ⁸	20.51 ²⁶	26.89 ⁴¹	40.23 ²⁴
15	49.49 ⁵⁸	34.87 ³¹	60.28 ⁹	20.79 ²⁸	27.30 ⁴¹	40.50 ²⁷
16	48.79 ⁷⁰	35.19 ³²	60.35 ⁷	21.09 ³⁰	27.68 ³⁸	40.77 ²⁷
17	47.98 ⁸¹	35.50 ³¹	60.42 ⁷	21.40 ³¹	28.04 ³⁶	41.07 ³⁰
18	47.07 ⁹¹	35.80 ³⁰	60.48 ⁶	21.71 ³¹	28.35 ³¹	41.37 ³⁰
19	46.09 ⁹⁸	36.07 ²⁷	60.53 ⁵	22.03 ³²	28.62 ²⁷	41.68 ³¹
20	45.08 ¹⁰¹	36.33 ²⁶	60.56 ³	22.34 ³¹	28.84 ²²	41.98 ³⁰
21	44.09 ⁹⁹	36.56 ²³	60.59 ³	22.62 ²⁸	29.04 ²⁰	42.26 ²⁸
22	43.14 ⁹⁵	36.79 ²³	60.63 ⁴	22.89 ²⁷	29.23 ¹⁹	42.53 ²⁷
23	42.25 ⁸⁹	37.00 ²¹	60.66 ³	23.16 ²⁷	29.43 ²⁰	42.79 ²⁶
24	41.43 ⁸²	37.22 ²²	60.70 ⁴	23.41 ²⁵	29.64 ²¹	43.04 ²⁵
25	40.64 ⁷⁹	37.45 ²³	60.74 ⁴	23.65 ²⁴	29.87 ²³	43.29 ²⁵
26	39.87 ⁷⁷	37.68 ²³	60.79 ⁵	23.92 ²⁷	30.12 ²⁵	43.54 ²⁵
27	39.09 ⁷⁸	37.93 ²⁵	60.84 ⁵	24.20 ²⁸	30.40 ²⁸	43.80 ²⁶
28	38.25 ⁸⁴	38.20 ²⁷	60.89 ⁵	24.48 ²⁸	30.68 ²⁸	44.08 ²⁸
29	37.31 ⁹⁴	38.47 ²⁷	60.94 ⁵	24.79 ³¹	30.95 ²⁷	44.38 ³⁰
30	36.28 ¹⁰³	38.74 ²⁷	60.98 ⁴	25.11 ³²	31.19 ²⁴	44.69 ³¹
31	35.15 ¹¹³	38.99 ²⁵	61.01 ³	25.44 ³³	31.39 ²⁰	45.01 ³²
Sept. 1	33.94 ¹²¹	39.22 ²³	61.03 ²	25.77 ³³	31.55 ¹⁶	45.33 ³²
2	32.68 ¹²⁶	39.44 ²²	61.03 ¹	26.09 ³²	31.66 ¹¹	45.66 ³³
3	31.40 ¹²⁸	39.64 ²⁰	61.04 ⁰	26.40 ³¹	31.74 ⁸	45.98 ³²
4	30.15 ¹²⁵	39.82 ¹⁸	61.04 ¹	26.69 ²⁹	31.80 ⁶	46.27 ²⁹
5	28.94 ¹²¹	39.98 ¹⁶	61.03 ⁰	26.97 ²⁸	31.85 ⁵	46.56 ²⁹
6	27.80 ¹¹⁴	40.14 ¹⁶	61.03 ¹	27.24 ²⁷	31.90 ⁵	46.84 ²⁸
7	26.71 ¹⁰⁹	40.29 ¹⁵	61.02 ⁰	27.50 ²⁶	31.97 ⁷	47.10 ²⁶
8	25.66 ¹⁰⁵	40.47 ¹⁸	61.02 ¹	27.76 ²⁶	32.06 ⁹	47.37 ²⁷
9	24.60 ¹⁰⁶	40.65 ¹⁸	61.03 ¹	28.04 ²⁸	32.18 ¹²	47.64 ²⁷
10	23.50 ¹¹⁰	40.85 ²⁰	61.04 ¹	28.33 ²⁹	32.30 ¹²	47.94 ³⁰
11	22.32 ¹¹⁸	41.06 ²¹	61.05 ¹	28.63 ³⁰	32.42 ¹²	48.25 ³¹
12	21.04 ¹²⁸	41.27 ²¹	61.06 ⁰	28.96 ³³	32.52 ¹⁰	48.58 ³³
13	19.65 ¹³⁹	41.47 ²⁰	61.06 ⁰	29.29 ³³	32.59 ⁷	48.91 ³³
O. K.	+ 1°.62 cos φ		+ 0°.15 cos φ		+ 0°.60 cos φ	
U. K.	- 1.62 cos φ		- 0.15 cos φ		- 0.60 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m —5 ^m .		γ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 15 ^m	—89° 14'	22 ^h 36 ^m	—81° 51'	23 ^h 15 ^m	—87° 58'
Sept. 13	79.65 147	41.47 19	61.06 2	29.29 35	32.59 4	48.91 35
14	78.18 155	41.66 16	61.04 3	29.64 34	32.63 1	49.26 35
15	76.63 158	41.82 15	61.01 3	29.98 32	32.62 6	49.61 35
16	75.05 157	41.97 13	60.98 5	30.30 31	32.56 9	49.96 32
17	73.48 153	42.10 10	60.93 5	30.61 29	32.47 11	50.28 31
18	71.95 146	42.20 10	60.88 4	30.90 28	32.36 11	50.59 30
19	70.49 138	42.30 10	60.84 4	31.18 26	32.25 11	50.89 29
20	69.11 132	42.40 9	60.80 4	31.44 26	32.14 8	51.18 27
21	67.79 128	42.49 11	60.76 4	31.70 25	32.06 6	51.45 28
22	66.51 128	42.60 12	60.72 2	31.95 27	32.00 4	51.73 28
23	65.23 129	42.72 12	60.70 2	32.22 28	31.96 3	52.01 28
24	63.94 137	42.84 12	60.68 4	32.50 30	31.93 4	52.29 30
25	62.57 145	42.98 14	60.64 3	32.80 31	31.89 6	52.59 32
26	61.12 154	43.10 12	60.61 4	33.11 30	31.83 9	52.91 33
27	59.58 161	43.22 11	60.57 5	33.41 31	31.74 13	53.24 33
28	57.97 167	43.33 9	60.52 7	33.72 30	31.61 18	53.57 32
29	56.30 167	43.42 6	60.45 7	34.02 29	31.43 22	53.89 31
30	54.63 166	43.48 3	60.38 8	34.31 28	31.21 25	54.20 31
Okt. 1	52.97 159	43.51 2	60.30 8	34.59 25	30.96 26	54.51 28
2	51.38 152	43.53 1	60.22 8	34.84 24	30.70 26	54.79 26
3	49.86 146	43.54 2	60.14 8	35.08 23	30.44 25	55.05 26
4	48.40 140	43.56 1	60.06 7	35.31 22	30.19 22	55.31 25
5	47.00 138	43.57 2	59.99 6	35.53 23	29.97 21	55.56 25
6	45.62 137	43.59 4	59.93 7	35.76 24	29.76 20	55.81 25
7	44.25 143	43.63 5	59.86 6	36.00 25	29.56 18	56.06 28
8	42.82 150	43.68 5	59.80 7	36.25 27	29.38 20	56.34 28
9	41.32 158	43.73 5	59.73 8	36.52 28	29.18 21	56.62 29
10	39.74 169	43.78 4	59.65 8	36.80 28	28.97 25	56.91 31
11	38.05 174	43.82 2	59.57 8	37.08 28	28.72 30	57.22 31
12	36.31 177	43.84 1	59.49 10	37.36 26	28.42 34	57.53 31
13	34.54 177	43.83 3	59.39 11	37.62 25	28.08 38	57.84 29
14	32.77 172	43.80 5	59.28 11	37.87 24	27.70 41	58.13 27
15	31.05 163	43.75 6	59.17 12	38.11 21	27.29 40	58.40 25
16	29.42 155	43.69 8	59.05 11	38.32 19	26.89 41	58.65 23
17	27.87 147	43.61 7	58.94 10	38.51 18	26.48 38	58.88 21
18	26.40 139	43.54 6	58.84 10	38.69 18	26.10 37	59.09 20
19	25.01 136	43.48 6	58.74 10	38.87 18	25.73 33	59.29 21
20	23.65	43.42	58.64	39.05	25.40	59.50

O. K. + 1°.62 cos φ
U. K. — 1°.62 cos φ

+ 0°.15 cos φ
— 0°.15 cos φ

+ 0°.61 cos φ
— 0°.61 cos φ

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m —5 ^m .		τ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 14 ^m	—89° 14'	22 ^h 36 ^m	—81° 51'	23 ^h 15 ^m	—87° 58'
Okt. 20	83.65 ¹³⁵	43.42 ⁵	58.64 ⁹	39.05 ¹⁹	25.40 ³²	59.50 ²²
21	82.30 ¹³⁹	43.37 ³	58.55 ⁹	39.24 ²⁰	25.08 ³¹	59.72 ²²
22	80.91 ¹⁴⁶	43.34 ³	58.46 ¹⁰	39.44 ²⁰	24.77 ³³	59.94 ²⁴
23	79.45 ¹⁵²	43.31 ⁵	58.36 ¹⁰	39.64 ²²	24.44 ³⁵	60.18 ²⁴
24	77.93 ¹⁵⁹	43.26 ⁶	58.26 ¹¹	39.86 ²¹	24.09 ⁴⁰	60.42 ²⁵
25	76.34 ¹⁶³	43.20 ⁷	58.15 ¹²	40.07 ²¹	23.69 ⁴⁴	60.67 ²⁴
26	74.71 ¹⁶⁴	43.13 ¹¹	58.03 ¹³	40.28 ¹⁹	23.25 ⁴⁷	60.91 ²⁴
27	73.07 ¹⁶²	43.02 ¹²	57.90 ¹³	40.47 ¹⁷	22.78 ⁵⁰	61.15 ²¹
28	71.45 ¹⁵⁶	42.90 ¹⁴	57.77 ¹⁴	40.64 ¹⁵	22.28 ⁵²	61.36 ¹⁹
29	69.89 ¹⁴⁷	42.76 ¹⁵	57.63 ¹³	40.79 ¹⁴	21.76 ⁵³	61.55 ¹⁸
30	68.42 ¹³⁷	42.61 ¹⁶	57.50 ¹⁴	40.93 ¹¹	21.23 ⁵¹	61.73 ¹⁵
31	67.05 ¹²⁸	42.45 ¹⁶	57.36 ¹²	41.04 ¹¹	20.72 ⁴⁹	61.88 ¹⁴
Nov. 1	65.77 ¹²⁴	42.29 ¹⁴	57.24 ¹²	41.15 ¹¹	20.23 ⁴⁶	62.02 ¹⁵
2	64.53 ¹²¹	42.15 ¹⁴	57.12 ¹²	41.26 ¹¹	19.77 ⁴⁴	62.17 ¹⁴
3	63.32 ¹²²	42.01 ¹²	57.00 ¹⁰	41.37 ¹²	19.33 ⁴²	62.31 ¹⁶
4	62.10 ¹²⁸	41.89 ¹²	56.90 ¹¹	41.49 ¹⁴	18.91 ⁴³	62.47 ¹⁶
5	60.82 ¹³⁴	41.77 ¹²	56.79 ¹²	41.63 ¹⁵	18.48 ⁴⁵	62.63 ¹⁸
6	59.48 ¹⁴²	41.65 ¹²	56.67 ¹²	41.78 ¹⁵	18.03 ⁴⁶	62.81 ¹⁹
7	58.06 ¹⁴⁸	41.53 ¹⁴	56.55 ¹³	41.93 ¹⁵	17.57 ⁵¹	63.00 ¹⁹
8	56.58 ¹⁵⁰	41.39 ¹⁵	56.42 ¹⁴	42.08 ¹⁴	17.06 ⁵⁴	63.19 ¹⁸
9	55.08 ¹⁴⁹	41.24 ¹⁹	56.28 ¹⁴	42.22 ¹²	16.52 ⁵⁹	63.37 ¹⁷
10	53.59 ¹⁴⁵	41.05 ²¹	56.14 ¹⁶	42.34 ¹⁰	15.93 ⁶⁰	63.54 ¹⁵
11	52.14 ¹³⁷	40.84 ²³	55.98 ¹⁵	42.44 ⁷	15.33 ⁶²	63.69 ¹²
12	50.77 ¹²⁷	40.61 ²³	55.83 ¹⁵	42.51 ⁶	14.71 ⁶¹	63.81 ¹¹
13	49.50 ¹¹⁶	40.38 ²³	55.68 ¹⁴	42.57 ⁴	14.10 ⁵⁹	63.92 ⁸
14	48.34 ¹⁰⁵	40.15 ²²	55.54 ¹⁴	42.61 ⁴	13.51 ⁵⁶	64.00 ⁶
15	47.29 ⁹⁹	39.93 ²²	55.40 ¹³	42.65 ³	12.95 ⁵⁴	64.06 ⁷
16	46.30 ⁹⁷	39.71 ²⁰	55.27 ¹²	42.68 ⁴	12.41 ⁵⁰	64.13 ⁷
17	45.33 ⁹⁷	39.51 ¹⁹	55.15 ¹²	42.72 ³	11.91 ⁴⁹	64.20 ⁷
18	44.36 ¹⁰⁰	39.32 ²⁰	55.03 ¹²	42.75 ⁵	11.42 ⁵⁰	64.27 ⁹
19	43.36 ¹⁰⁶	39.12 ¹⁹	54.91 ¹³	42.80 ⁶	10.92 ⁵¹	64.36 ⁹
20	42.30 ¹¹¹	38.93 ²⁰	54.78 ¹³	42.86 ⁶	10.41 ⁵⁴	64.45 ¹⁰
21	41.19 ¹¹⁵	38.73 ²²	54.65 ¹⁴	42.92 ⁵	9.87 ⁵⁷	64.55 ⁹
22	40.04 ¹¹⁵	38.51 ²⁴	54.51 ¹⁵	42.97 ⁴	9.30 ⁶¹	64.64 ⁸
23	38.89 ¹¹⁴	38.27 ²⁶	54.36 ¹⁶	43.01 ²	8.69 ⁶⁴	64.72 ⁷
24	37.75 ¹⁰⁷	38.01 ²⁸	54.20 ¹⁵	43.03 ⁰	8.05 ⁶⁶	64.79 ⁵
25	36.68 ⁹⁷	37.73 ³⁰	54.05 ¹⁶	43.03 ¹	7.39 ⁶⁶	64.84 ⁵
26	35.71	37.43	53.89	43.02	6.73	64.86 ²
O. K.	+ 1°.62 cos φ		+ 0°.15 cos φ		+ 0°.61 cos φ	
U. K.	— 1°.62 cos φ		— 0°.15 cos φ		— 0°.61 cos φ	

Obere Kulmination.

1909	α Octantis. 6 ^m .		β Octantis. 4 ^m - 5 ^m .		τ Octantis. 6 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 14 ^m	-89° 14'	22 ^h 36 ^m	-81° 51'	23 ^h 14 ^m	-87° 59'
Nov. 26	35.71 ⁸⁷	37.43 ³⁰	53.89 ¹⁵	43.02 ⁵	66.73 ⁶⁴	4.86 ⁰
27	34.84 ⁷⁶	37.13 ²⁹	53.74 ¹⁴	42.97 ⁶	66.09 ⁶²	4.86 ²
28	34.08 ⁶⁸	36.84 ²⁹	53.60 ¹³	42.91 ⁶	65.47 ⁶⁰	4.84 ²
29	33.40 ⁶³	36.55 ²⁷	53.47 ¹³	42.85 ⁶	64.87 ⁵⁵	4.82 ²
30	32.77 ⁶³	36.28 ²⁷	53.34 ¹²	42.79 ⁴	64.32 ⁵⁴	4.80 ¹
Dez. 1	32.14 ⁶⁵	36.01 ²⁵	53.22 ¹²	42.75 ⁴	63.78 ⁵²	4.79 ⁰
2	31.49 ⁶⁹	35.76 ²⁴	53.10 ¹²	42.71 ²	63.26 ⁵³	4.79 ⁰
3	30.80 ⁷⁵	35.52 ²⁴	52.98 ¹³	42.69 ³	62.73 ⁵⁴	4.79 ¹
4	30.05 ⁸¹	35.28 ²⁶	52.85 ¹³	42.66 ²	62.19 ⁵⁷	4.80 ²
5	29.24 ⁸⁴	35.02 ²⁷	52.72 ¹⁴	42.64 ³	61.62 ⁶⁰	4.82 ¹
6	28.40 ⁸³	34.75 ³⁰	52.58 ¹⁵	42.61 ³	61.02 ⁶⁴	4.83 ⁰
7	27.57 ⁷⁹	34.45 ³²	52.43 ¹⁵	42.58 ⁶	60.38 ⁶⁷	4.83 ²
8	26.78 ⁷²	34.13 ³²	52.28 ¹⁵	42.52 ⁸	59.71 ⁶⁷	4.81 ⁴
9	26.06 ⁶¹	33.81 ³⁴	52.13 ¹⁵	42.44 ¹¹	59.04 ⁶⁷	4.77 ⁶
10	25.45 ⁴⁹	33.47 ³⁴	51.98 ¹⁴	42.33 ¹³	58.37 ⁶⁴	4.71 ⁸
11	24.96 ³⁸	33.13 ³⁵	51.84 ¹³	42.20 ¹³	57.73 ⁶¹	4.63 ¹⁰
12	24.58 ²⁸	32.78 ³²	51.71 ¹³	42.07 ¹⁴	57.12 ⁵⁸	4.53 ¹¹
13	24.30 ²²	32.46 ³⁰	51.58 ¹¹	41.93 ¹⁵	56.54 ⁵⁵	4.42 ¹¹
14	24.08 ²²	32.16 ³⁰	51.47 ¹²	41.78 ¹³	55.99 ⁵²	4.31 ¹⁰
15	23.86 ²³	31.86 ²⁹	51.35 ¹¹	41.65 ¹²	55.47 ⁵¹	4.21 ¹⁰
16	23.63 ²⁷	31.57 ²⁹	51.24 ¹¹	41.53 ¹¹	54.96 ⁵¹	4.11 ⁹
17	23.36 ³²	31.28 ²⁹	51.13 ¹²	41.42 ¹¹	54.45 ⁵³	4.02 ⁹
18	23.04 ³⁵	30.99 ³⁰	51.01 ¹¹	41.31 ¹²	53.92 ⁵⁵	3.93 ⁸
19	22.69 ³⁷	30.69 ³¹	50.90 ¹³	41.19 ¹²	53.37 ⁵⁸	3.85 ⁹
20	22.32 ³⁵	30.38 ³⁴	50.77 ¹³	41.07 ¹⁴	52.79 ⁶²	3.76 ¹⁰
21	21.97 ³⁰	30.04 ³⁵	50.64 ¹⁴	40.91 ¹⁶	52.17 ⁶⁴	3.66 ¹²
22	21.67 ²⁰	29.69 ³⁷	50.50 ¹³	40.77 ¹⁹	51.53 ⁶³	3.54 ¹⁵
23	21.47 ¹⁰	29.32 ³⁷	50.37 ¹⁴	40.58 ²²	50.90 ⁶²	3.39 ¹⁶
24	21.37 ²	28.95 ³⁸	50.23 ¹²	40.36 ²²	50.28 ⁵⁹	3.23 ¹⁸
25	21.39 ¹³	28.57 ³⁶	50.11 ¹¹	40.14 ²²	49.69 ⁵⁷	3.05 ²⁰
26	21.52 ¹⁸	28.21 ³⁵	50.00 ¹⁰	39.92 ²²	49.12 ⁵²	2.85 ²⁰
27	21.70 ²²	27.86 ³²	49.90 ¹⁰	39.70 ²²	48.60 ⁴⁹	2.65 ¹⁹
28	21.92 ²¹	27.54 ³¹	49.80 ¹⁰	39.48 ²¹	48.11 ⁴⁷	2.46 ¹⁸
29	22.13 ¹⁷	27.23 ³¹	49.70 ⁹	39.27 ¹⁹	47.64 ⁴⁶	2.28 ¹⁸
30	22.30 ¹²	26.92 ³⁰	49.61 ⁸	39.08 ¹⁸	47.18 ⁴⁶	2.10 ¹⁶
31	22.42 ⁶	26.62 ³⁰	49.53 ¹⁰	38.90 ¹⁸	46.72 ⁴⁸	1.94 ¹⁶
32	22.48 ⁴	26.32 ³²	49.43 ¹¹	38.72 ¹⁸	46.24 ⁵¹	1.78 ¹⁶
33	22.52	26.00	49.32	38.54	45.73	1.62

U. K. + 1°.61 cos φ
 U. K. - 1°.61 cos φ

+ 0°.15 cos φ
 - 0°.15 cos φ

+ 0°.61 cos φ
 - 0°.61 cos φ

1909	α Andromed. 2 ^m .1.		β Cassiopej. 2 ^m .2.		ε Phoenicis. 3 ^m .8.		γ Pegasi. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	0 ^h 3 ^m	28° 35'	0 ^h 4 ^m	58° 38'	0 ^h 4 ^m	46° 14'	0 ^h 8 ^m	14° 40'
Jan. 0	39.61	18.7	17.46	62.1	46.41	80.8	31.68	36.6
10	39.47	17.8	17.14	61.4	46.22	80.4	31.57	35.8
20	39.33	16.7	16.83	60.1	46.04	79.6	31.46	34.8
30	39.21	15.3	16.55	58.4	45.89	78.3	31.36	33.8
Febr. 9	39.11	13.7	16.30	56.3	45.77	76.7	31.27	32.8
19	39.03	12.1	16.10	53.9	45.67	74.6	31.21	31.8
März 1	38.98	10.5	15.97	51.3	45.62	72.3	31.17	30.9
11	38.97	9.0	15.90	48.6	45.61	69.6	31.17	30.1
21	39.00	7.6	15.91	45.9	45.64	66.8	31.20	29.5
31	39.09	6.3	16.01	43.1	45.73	63.5	31.28	29.1
April 10	39.21	5.4	16.18	40.9	45.87	60.3	31.39	29.0
20	39.39	4.9	16.43	38.9	46.07	57.2	31.55	29.2
30	39.61	4.7	16.74	37.4	46.31	54.1	31.75	29.8
Mai 10	39.86	4.9	17.12	36.3	46.60	51.1	31.98	30.6
20	40.15	5.6	17.56	35.8	46.93	48.3	32.25	31.8
30	40.47	6.5	18.03	35.7	47.29	45.7	32.54	33.2
Juni 9	40.80	7.9	18.53	36.3	47.68	43.4	32.85	34.9
19	41.14	9.6	19.02	37.3	48.09	41.4	33.17	36.8
29	41.49	11.6	19.52	38.8	48.51	39.8	33.50	38.8
Juli 9	41.82	13.8	20.01	40.8	48.93	38.7	33.82	41.0
19	42.14	16.1	20.47	43.1	49.33	38.0	34.12	43.2
29	42.43	18.6	20.88	45.8	49.70	37.8	34.40	45.3
Aug. 8	42.69	21.1	21.25	48.8	50.04	38.1	34.65	47.5
18	42.92	23.7	21.57	52.0	50.33	38.9	34.87	49.5
28	43.11	26.1	21.82	55.3	50.58	40.0	35.06	51.4
Sept. 7	43.25	28.5	22.02	58.7	50.77	41.6	35.20	53.1
17	43.36	30.8	22.15	62.2	50.90	43.5	35.31	54.6
27	43.43	32.8	22.22	65.6	50.98	45.6	35.38	55.9
Okt. 7	43.45	34.7	22.22	68.8	51.00	47.8	35.42	57.0
17	43.44	36.3	22.18	71.9	50.97	50.1	35.42	57.8
27	43.41	37.7	22.07	74.7	50.89	52.4	35.40	58.4
Nov. 6	43.35	38.8	21.91	77.1	50.77	54.5	35.35	58.8
16	43.26	39.6	21.70	79.2	50.62	56.4	35.28	59.0
26	43.15	40.2	21.46	80.9	50.45	58.0	35.19	59.0
Dez. 6	43.03	40.3	21.19	82.0	50.26	59.2	35.10	58.7
16	42.90	40.1	20.89	82.7	50.06	60.0	34.99	58.3
26	42.76	39.7	20.58	82.8	49.86	60.3	34.87	57.7
36	42.62	38.9	20.27	82.4	49.67	60.2	34.76	57.0
Mittl. Ort	40.86	16.9	18.89	52.2	47.66	58.6	32.89	39.4

1)

2)

3)

7)

SCHEINBARE STERNÖRTER.

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1909	ι Ceti. 3 ^m .5.		ζ Tucanae. 4 ^m .2.		β Hydri. 2 ^m .8.		α Phoenicis. 2 ^m .3.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 14 ^m	9° 19'	0 ^h 15 ^m	65° 24'	0 ^h 20 ^m	77° 45'	0 ^h 21 ^m	42° 47'
Jan. 0	46.35 ¹¹	53.5	18.88	60.4	57.89	87.0	46.17	82.4
10	46.24 ¹⁰	54.0	18.49 ³⁹	59.6	57.01 ⁸⁸	86.0 ¹⁰	45.99 ¹⁸	82.3
20	46.14 ¹⁰	54.4	18.13 ³⁶	58.2	56.20 ⁸¹	84.3 ¹⁷	45.82 ¹⁷	81.7
30	46.04 ¹⁰	54.6	17.81 ³²	56.4	55.47 ⁷³	82.1 ²²	45.66 ¹⁶	80.7
Febr. 9	45.97 ⁷	54.6	17.54 ²⁷	54.0	54.84 ⁶³	79.5 ²⁶	45.53 ¹³	79.3
19	45.91 ⁶	54.5	17.32 ²²	51.2	54.33 ⁵¹	76.4 ³¹	45.42 ¹¹	77.5
März 1	45.87 ⁴	54.1	17.17 ¹⁵	48.1	53.96 ³⁷	73.0 ³⁴	45.35 ⁷	75.4
11	45.86 ³	53.5	17.10 ⁷	44.7	53.72 ²⁴	69.4 ³⁶	45.32 ³	73.0
21	45.89 ³	52.7	17.10 ⁹	41.1	53.64 ⁸	65.6 ³⁸	45.33 ¹	70.3
31	45.96 ⁷	51.5	17.19 ¹²	37.1	53.73 ⁹	61.3 ⁴³	45.39 ⁶	67.1
April 10	46.07 ¹¹	50.1	17.36 ¹⁷	33.4	53.97 ²⁴	57.5 ³⁸	45.50 ¹¹	64.1
20	46.22 ¹⁵	48.6	17.61 ²⁵	29.8	54.37 ³⁶	53.7 ³⁸	45.66 ¹⁶	61.1
30	46.40 ¹⁸	46.8	17.94 ³³	26.2	54.92 ⁵⁵	50.1 ³⁶	45.88 ²²	58.0
Mai 10	46.63 ²³	44.9	18.34 ⁴⁰	22.9	55.62 ⁷⁰	46.8 ³³	46.14 ²⁶	54.9
20	46.89 ²⁶	42.8	18.82 ⁴⁸	19.8	56.43 ⁸¹	43.8 ³⁰	46.44 ³⁰	52.0
30	47.17 ²⁸	40.7	19.34 ⁵²	17.1	57.36 ⁹³	41.2 ²⁶	46.77 ³³	49.3
Juni 9	47.47 ³⁰	38.5	19.92 ⁵⁸	14.8	58.37 ¹⁰¹	39.0 ²²	47.14 ³⁷	46.8
19	47.79 ³²	36.4	20.53 ⁶¹	13.0	59.46 ¹⁰⁹	37.4 ¹⁶	47.52 ³⁸	44.7
29	48.11 ³²	34.3	21.15 ⁶²	11.7	60.57 ¹¹¹	36.3 ¹¹	47.92 ⁴⁰	42.9
Juli 9	48.43 ³²	32.4	21.78 ⁶³	10.8	61.70 ¹¹³	35.7 ⁶	48.31 ³⁹	41.5
19	48.73 ³⁰	30.7	22.39 ⁶¹	10.5	62.81 ¹¹¹	35.7 ⁰	48.70 ³⁹	40.6
29	49.02 ²⁹	29.1	22.96 ⁵⁷	10.8	63.86 ¹⁰⁵	36.3 ⁶	49.06 ³⁶	40.1
Aug. 8	49.28 ²⁶	27.9	23.49 ⁵³	11.7	64.84 ⁹⁸	37.4 ¹¹	49.40 ³⁴	40.2
18	49.51 ²³	26.9	23.96 ⁴⁷	13.0	65.71 ⁸⁷	39.1 ¹⁷	49.70 ³⁰	40.6
28	49.70 ¹⁹	26.2	24.35 ³⁹	14.8	66.41 ⁷⁰	41.2 ²¹	49.95 ²⁵	41.6
Sept. 7	49.85 ¹⁵	25.8	24.66 ³¹	17.0	67.00 ⁵⁹	43.7 ²⁵	50.15 ²⁰	42.9
17	49.97 ¹²	25.7	24.87 ²¹	19.5	67.40 ⁴⁰	46.5 ²⁸	50.30 ¹⁵	44.6
27	50.05 ⁸	25.8	25.00 ¹³	22.3	67.60 ²⁰	49.5 ³⁰	50.40 ¹⁰	46.5
Okt. 7	50.09 ⁴	26.2	25.02 ²	25.1	67.61 ¹	52.5 ³⁰	50.44 ⁴	48.7
17	50.11 ²	26.8	24.95 ⁷	27.9	67.44 ¹⁷	55.5 ³⁰	50.43 ¹	50.9
27	50.09 ²	27.5	24.80 ¹⁵	30.6	67.09 ³⁵	58.3 ²⁸	50.39 ⁴	53.1
Nov. 6	50.04 ⁵	28.3	24.57 ²³	33.0	66.59 ⁵⁰	60.9 ²⁶	50.30 ⁹	55.3
16	49.97 ⁷	29.2	24.27 ³⁰	35.2	65.94 ⁶⁵	63.0 ²¹	50.18 ¹²	57.3
26	49.89 ⁸	30.1	23.93 ³⁴	36.8	65.18 ⁷⁶	64.7 ¹⁷	50.03 ¹⁵	59.0
Dez. 6	49.80 ⁹	30.9	23.55 ³⁸	38.0	64.35 ⁸³	65.8 ¹¹	49.87 ¹⁶	60.3
16	49.70 ¹⁰	31.7	23.16 ³⁹	38.6	63.46 ⁸⁹	66.3 ⁵	49.69 ¹⁸	61.3
26	49.59 ¹¹	32.4	22.75 ⁴¹	38.7	62.55 ⁹¹	66.2 ¹	49.51 ¹⁸	61.9
36	49.48 ¹¹	33.0	22.36 ³⁹	38.2	61.67 ⁸⁸	65.4 ⁸	49.32 ¹⁹	62.0
Mittl. Ort	47.49	42.2	20.07	34.8	59.02	60.2	47.24	61.0

9)

10)

11)

12)

1909	12 Ceti. 6 ^m .I.		ζ Cassiopej. 3 ^m .8.		π Andromed. 4 ^m .2.		δ Andromed. 3 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	0 ^h 25 ^m	4° 27'	0 ^h 31 ^m	53° 23'	0 ^h 31 ^m	33° 12'	0 ^h 34 ^m	30° 21'
Jan. 0	22.60	45.9	52.52	55.2	59.92	70.0	26.42	50.0
10	22.49	46.5	52.25	54.8	59.76	69.3	26.27	49.3
20	22.39	47.0	51.99	53.8	59.61	68.3	26.12	48.3
30	22.29	47.4	51.73	52.4	59.46	67.0	25.98	47.1
Febr. 9	22.21	47.6	51.50	50.6	59.32	65.6	25.85	45.7
19	22.14	47.7	51.31	48.5	59.21	64.0	25.74	44.2
März 1	22.09	47.6	51.16	46.2	59.13	62.3	25.67	42.7
11	22.07	47.3	51.07	43.8	59.09	60.6	25.62	41.1
21	22.09	46.7	51.04	41.4	59.08	59.0	25.62	39.7
31	22.15	45.8	51.09	38.8	59.13	57.5	25.67	38.3
April 10	22.25	44.8	51.20	36.7	59.23	56.3	25.76	37.3
20	22.38	43.5	51.39	34.8	59.38	55.5	25.91	36.6
30	22.56	42.0	51.64	33.3	59.58	54.9	26.10	36.2
Mai 10	22.78	40.2	51.95	32.3	59.82	54.8	26.34	36.2
20	23.03	38.4	52.32	31.7	60.10	55.1	26.61	36.6
30	23.30	36.3	52.72	31.6	60.42	55.7	26.91	37.3
Juni 9	23.60	34.2	53.15	31.9	60.75	56.8	27.24	38.4
19	23.91	32.1	53.60	32.8	61.11	58.2	27.59	39.9
29	24.23	30.0	54.06	34.2	61.46	59.9	27.94	41.6
Juli 9	24.55	28.1	54.51	35.9	61.82	61.9	28.29	43.6
19	24.85	26.2	54.95	38.0	62.16	64.1	28.62	45.8
29	25.14	24.5	55.35	40.5	62.48	66.5	28.93	48.2
Aug. 8	25.40	23.0	55.72	43.2	62.77	69.0	29.22	50.6
18	25.64	21.8	56.04	46.2	63.03	71.6	29.48	53.1
28	25.84	20.8	56.32	49.3	63.25	74.1	29.70	55.5
Sept. 7	26.00	20.2	56.54	52.5	63.43	76.6	29.88	57.9
17	26.13	19.7	56.71	55.7	63.57	79.1	30.02	60.2
27	26.22	19.6	56.83	58.9	63.67	81.4	30.12	62.4
Okt. 7	26.27	19.7	56.90	61.9	63.73	83.5	30.19	64.3
17	26.29	20.0	56.91	64.9	63.76	85.5	30.22	66.1
27	26.28	20.5	56.87	67.6	63.75	87.2	30.22	67.7
Nov. 6	26.25	21.1	56.79	70.0	63.71	88.6	30.19	69.0
16	26.19	21.7	56.66	72.1	63.65	89.8	30.13	70.0
26	26.12	22.5	56.49	73.8	63.56	90.6	30.04	70.7
Dez. 6	26.03	23.3	56.29	75.1	63.44	91.1	29.94	71.1
16	25.94	24.0	56.07	75.9	63.31	91.3	29.81	71.2
26	25.83	24.7	55.82	76.2	63.17	91.1	29.68	71.0
36	25.73	25.3	55.56	75.9	63.01	90.6	29.53	70.5
Min. Ort	23.69	36.4	53.69	46.2	61.03	66.5	27.51	47.4

13)

17)

18)

20)

1909	α Cassiopej. (2 ^m .2.)		β Ceti. 2 ^m .2.		21 Cassiopej. 5 ^m .8.		ο Cassiopej. 4 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	0 ^h 35 ^m	56° 2'	0 ^h 38 ^m	18° 28'	0 ^h 39 ^m	74° 29'	0 ^h 39 ^m	47° 46'
Jan. 0	18.99	27.8	60.36	83.9	35.96	39.4	37.83	78.8
10	18.70 ²⁹	27.4 ⁴	60.24 ¹²	84.4 ⁵	35.22 ⁷⁴	39.5 ¹	37.61 ²²	78.3 ⁵
20	18.41 ²⁹	26.5 ⁹	60.12 ¹²	84.6 ²	34.50 ⁷²	38.9 ⁶	37.39 ²²	77.4 ⁹
30	18.13 ²⁸	25.1 ¹⁴	60.00 ¹²	84.5 ¹	33.80 ⁷⁰	37.7 ¹²	37.17 ²²	76.1 ¹³
Febr. 9	17.88 ²⁵	23.4 ¹⁷	59.90 ¹⁰	84.2 ³	33.16 ⁶⁴	36.0 ¹⁷	36.97 ²⁰	74.5 ¹⁶
19	17.66 ²²	21.3 ²¹	59.82 ⁸	83.6 ⁶	32.61 ⁵⁵	33.8 ²²	36.80 ¹⁷	72.5 ²⁰
März 1	17.49 ¹⁷	18.9 ²⁴	59.77 ⁵	82.8 ⁸	32.17 ⁴⁴	31.3 ²⁵	36.67 ¹³	70.4 ²¹
11	17.38 ¹¹	16.4 ²⁵	59.73 ⁴	81.6 ¹²	31.85 ³²	28.5 ²⁸	36.59 ⁸	68.2 ²²
21	17.34 ⁴	13.9 ²⁵	59.73 ⁰	80.2 ¹⁴	31.69 ¹⁶	25.6 ²⁹	36.56 ³	66.0 ²²
31	17.38 ³⁰	11.2 ²⁷	59.77 ⁴	78.6 ¹⁶	31.67 ²	22.6 ³⁰	36.59 ³	63.9 ²¹
April 10	17.49 ¹¹	9.0 ²²	59.86 ⁹	76.6 ²⁰	31.83 ¹⁶	19.5 ³¹	36.69 ¹⁰	61.8 ²¹
20	17.68 ¹⁹	7.0 ²⁰	59.98 ¹²	74.5 ²¹	32.14 ³¹	16.9 ²⁶	36.85 ¹⁶	60.2 ¹⁶
30	17.94 ²⁶	5.4 ¹⁶	59.98 ¹⁷	74.5 ²²	32.14 ⁴⁵	16.9 ²³	36.85 ²³	60.2 ¹³
Mai 10	17.94 ³²	5.4 ¹²	60.15 ²⁰	72.3 ²³	32.59 ⁵⁸	14.6 ¹⁹	37.08 ²⁷	58.9 ⁹
20	18.26 ³⁸	4.2 ⁷	60.35 ²⁵	70.0 ²⁴	33.17 ⁶⁹	12.7 ¹⁵	37.35 ³³	58.0 ⁴
30	18.64 ⁴²	3.5 ³	60.60 ²⁷	67.6 ²⁴	33.86 ⁷⁷	11.2 ⁸	37.68 ³⁶	57.6 ⁰
Juni 9	19.06 ⁴⁶	3.2 ³	60.87 ³¹	65.2 ²⁴	34.63 ⁸³	10.4 ⁴	38.04 ⁴⁰	57.6 ⁵
19	19.52 ⁴⁷	3.5 ⁸	61.18 ³²	62.8 ²³	35.46 ⁸⁸	10.0 ²	38.44 ⁴¹	58.1 ⁹
29	19.99 ⁴⁹	4.3 ¹²	61.50 ³³	60.5 ²¹	36.34 ⁸⁸	10.2 ⁷	38.85 ⁴²	59.0 ¹⁴
Juli 9	20.48 ⁴⁷	5.5 ¹⁷	61.83 ³²	58.4 ¹⁹	37.22 ⁸⁷	10.9 ¹³	39.27 ⁴¹	60.4 ¹⁸
19	20.95 ⁴⁶	7.2 ²⁰	62.15 ³²	56.5 ¹⁶	38.09 ⁸⁵	12.2 ¹⁸	39.68 ⁴⁰	62.2 ²¹
29	21.41 ⁴³	9.2 ²⁴	62.47 ³¹	54.9 ¹⁴	38.94 ⁸⁰	14.0 ²²	40.08 ³⁸	64.3 ²⁴
Aug. 8	21.84 ³⁹	11.6 ²⁸	62.78 ²⁸	53.5 ¹⁰	39.74 ⁷³	16.2 ²⁶	40.46 ³⁵	66.7 ²⁶
18	22.23 ³⁵	14.4 ²⁹	63.06 ²⁵	52.5 ⁶	40.47 ⁶⁴	18.8 ³⁰	40.81 ³⁰	69.3 ²⁸
28	22.58 ²⁹	17.3 ³¹	63.31 ²²	51.9 ³	41.11 ⁵⁴	21.8 ³²	41.11 ²⁷	72.1 ²⁹
Sept. 7	22.87 ²⁴	20.4 ³³	63.53 ¹⁹	51.6 ⁰	41.65 ⁴⁴	25.0 ³⁵	41.38 ²²	75.0 ³⁰
17	23.11 ¹⁹	23.7 ³³	63.72 ¹⁴	51.6 ⁴	42.09 ³⁴	28.5 ³⁷	41.60 ¹⁷	78.0 ³⁰
27	23.30 ¹³	27.0 ³²	63.86 ¹¹	52.0 ⁶	42.43 ²¹	32.2 ³⁷	41.77 ¹²	81.0 ³⁰
Okt. 7	23.43 ⁷	30.2 ³²	63.97 ⁶	52.6 ¹⁰	42.64 ¹⁰	35.9 ³⁷	41.89 ⁸	84.0 ²⁸
17	23.50 ¹	33.4 ³⁰	64.03 ³	53.6 ¹¹	42.74 ²	39.6 ³⁶	41.97 ³	86.8 ²⁷
27	23.51 ⁴	36.4 ²⁹	64.06 ⁰	54.7 ¹²	42.72 ¹⁴	43.2 ³⁵	42.00 ²	89.5 ²⁵
Nov. 6	23.47 ⁹	39.3 ²⁵	64.06 ³	55.9 ¹³	42.58 ²⁵	46.7 ³²	41.98 ⁵	92.0 ²²
16	23.38 ¹³	41.8 ²²	64.03 ⁵	57.2 ¹³	42.33 ³⁶	49.9 ³⁰	41.93 ¹⁰	94.2 ¹⁹
26	23.25 ¹⁸	44.0 ¹⁹	63.98 ⁸	58.5 ¹³	41.97 ⁴⁶	52.9 ²⁵	41.83 ¹²	96.1 ¹⁵
Dez. 6	23.07 ²²	45.9 ¹⁴	63.90 ⁹	59.8 ¹¹	41.51 ⁵⁵	55.4 ²¹	41.71 ¹⁶	97.6 ¹¹
16	22.85 ²⁴	47.3 ⁹	63.81 ¹¹	60.9 ¹⁰	40.96 ⁶³	57.5 ¹⁵	41.55 ¹⁸	98.7 ⁷
26	22.61 ²⁷	48.2 ⁴	63.70 ¹¹	61.9 ⁸	40.33 ⁶⁹	59.0 ¹⁰	41.37 ²⁰	99.4 ³
36	22.34 ²⁸	48.6 ¹	63.59 ¹²	62.7 ⁶	39.64 ⁷¹	60.0 ⁴	41.17 ²²	99.7 ²
36	22.06	48.5	63.47	63.3	38.93	60.4	40.95	99.5
Mittl. Ort	20.16	18.2	61.33	69.7	37.25	26.7	38.93	71.1

21)

22)

24)

25)

1909	ζ Andromed. 4 ^m .I.		γ Cassiopej. 2 ^m .O.		μ Andromed. 3 ^m .9.		α Sculptoris. 4 ^m .I.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	0 ^h 42 ^m	23° 46'	0 ^h 51 ^m	60° 13'	0 ^h 51 ^m	38° 0'	0 ^h 54 ^m	29° 50'
Jan. 0	29.71 ¹³	20.5 ⁶	11.39 ³⁴	37.3 ¹	40.88 ¹⁸	26.4 ⁵	12.46 ¹⁵	74.9 ⁴
10	29.58 ¹⁴	19.9 ⁹	11.05 ³⁵	37.2 ⁶	40.70 ¹⁸	25.9 ⁸	12.31 ¹⁵	75.3 ¹
20	29.44 ¹³	19.0 ¹⁰	10.70 ³³	36.6 ¹²	40.52 ¹⁷	25.1 ¹²	12.16 ¹⁴	75.4 ⁴
30	29.31 ¹²	18.0 ¹²	10.37 ³¹	35.4 ¹⁶	40.35 ¹⁶	23.9 ¹⁴	12.02 ¹³	75.0 ⁷
Febr. 9	29.19 ¹⁰	16.8 ¹²	10.06 ²⁸	33.8 ²⁰	40.19 ¹⁴	22.5 ¹⁶	11.89 ¹¹	74.3 ¹⁰
19	29.09 ⁸	15.6 ¹³	9.78 ²²	31.8 ²³	40.05 ¹¹	20.9 ¹⁷	11.78 ⁹	73.3 ¹⁴
März 1	29.01 ⁴	14.3 ¹²	9.56 ¹⁶	29.5 ²⁵	39.94 ⁸	19.2 ¹⁸	11.69 ⁶	71.9 ¹⁷
11	28.97 ¹	13.1 ¹¹	9.40 ⁸	27.0 ²⁵	39.86 ³	17.4 ¹⁷	11.63 ²	70.2 ²⁰
21	28.96 ³	12.0 ⁹	9.32 ⁰	24.5 ²⁶	39.83 ²	15.7 ¹⁷	11.61 ²	68.2 ²²
31	28.99 ⁹	11.1 ⁷	9.32 ¹⁰	21.9 ²⁷	39.85 ⁹	14.0 ¹⁶	11.63 ⁷	66.0 ²⁷
April 10	29.08 ¹³	10.4 ³	9.42 ¹⁷	19.2 ²²	39.94 ¹³	12.4 ¹²	11.70 ¹¹	63.3 ²⁶
20	29.21 ¹⁸	10.1 ¹	9.59 ²⁶	17.0 ¹⁸	40.07 ¹⁹	11.2 ⁸	11.81 ¹⁵	60.7 ²⁸
30	29.39 ²²	10.0 ³	9.85 ³³	15.2 ¹⁵	40.26 ²³	10.4 ⁵	11.96 ²⁰	57.9 ²⁸
Mai 10	29.61 ²⁵	10.3 ⁶	10.18 ⁴⁰	13.7 ¹⁰	40.49 ²⁹	9.9 ¹	12.16 ²⁵	55.1 ²⁸
20	29.86 ²⁹	10.9 ¹⁰	10.58 ⁴⁵	12.7 ⁶	40.78 ³¹	9.8 ⁴	12.41 ²⁷	52.3 ²⁷
30	30.15 ³¹	11.9 ¹³	11.03 ⁴⁹	12.1 ⁰	41.09 ³⁵	10.2 ⁷	12.68 ³¹	49.6 ²⁶
Juni 9	30.46 ³³	13.2 ¹⁵	11.52 ⁵²	12.1 ⁴	41.44 ³⁶	10.9 ¹¹	12.99 ³³	47.0 ²⁴
19	30.79 ³⁴	14.7 ¹⁸	12.04 ⁵³	12.5 ¹⁰	41.80 ³⁷	12.0 ¹⁵	13.32 ³⁴	44.6 ²²
29	31.13 ³³	16.5 ²⁰	12.57 ⁵²	13.5 ¹⁴	42.17 ³⁸	13.5 ¹⁸	13.66 ³⁵	42.4 ¹⁹
Juli 9	31.46 ³³	18.5 ²¹	13.09 ⁵²	14.9 ¹⁸	42.55 ³⁶	15.3 ²⁰	14.01 ³⁵	40.5 ¹⁵
19	31.79 ³⁰	20.6 ²³	13.61 ⁴⁹	16.7 ²³	42.91 ³⁴	17.3 ²³	14.36 ³³	39.0 ¹¹
29	32.09 ²⁸	22.9 ²²	14.10 ⁴⁵	19.0 ²⁵	43.25 ³²	19.6 ²⁵	14.69 ³¹	37.9 ⁻
Aug. 8	32.37 ²⁶	25.1 ²³	14.55 ⁴⁰	21.5 ²⁹	43.57 ²⁹	22.1 ²⁵	15.00 ²⁸	37.2 ⁵
18	32.63 ²²	27.4 ²²	14.95 ³⁵	24.4 ³¹	43.86 ²⁵	24.6 ²⁷	15.28 ²⁴	36.9 ²
28	32.85 ¹⁸	29.6 ²¹	15.30 ²⁹	27.5 ³²	44.11 ²²	27.3 ²⁶	15.52 ²¹	37.1 ⁶
Sept. 7	33.03 ¹⁵	31.7 ¹⁹	15.59 ²⁴	30.7 ³³	44.33 ¹⁷	29.9 ²⁶	15.73 ¹⁷	37.7 ⁹
17	33.18 ¹¹	33.6 ¹⁸	15.83 ¹⁷	34.0 ³⁴	44.50 ¹³	32.5 ²⁵	15.90 ¹³	38.6 ¹²
27	33.29 ⁷	35.4 ¹⁶	16.00 ¹⁰	37.4 ³³	44.63 ⁹	35.0 ²⁴	16.03 ⁸	39.8 ¹⁶
Okt. 7	33.36 ⁴	37.0 ¹⁴	16.10 ⁵	40.7 ³²	44.72 ⁵	37.4 ²²	16.11 ⁵	41.4 ¹⁷
17	33.40 ¹	38.4 ¹²	16.15 ²	43.9 ³⁰	44.77 ¹	39.6 ²⁰	16.16 ⁰	43.1 ¹³
27	33.41 ²	39.6 ¹⁰	16.13 ⁸	46.9 ²⁸	44.78 ¹	41.6 ¹⁷	16.16 ³	44.9 ¹⁹
Nov. 6	33.39 ⁷	40.6 ⁷	16.05 ¹³	49.7 ²⁵	44.76 ⁵	43.3 ¹⁵	16.13 ⁶	46.8 ¹⁸
16	33.35 ⁴	41.3 ⁴	15.92 ¹⁹	52.2 ²²	44.71 ⁸	44.8 ¹²	16.07 ⁸	48.6 ¹⁶
26	33.28 ⁹	41.7 ²	15.73 ²³	54.4 ¹⁷	44.63 ¹²	46.0 ⁸	15.99 ¹¹	50.2 ¹⁵
Dez. 6	33.19 ¹¹	41.9 ⁰	15.50 ²⁷	56.1 ¹²	44.51 ¹³	46.8 ⁴	15.88 ¹²	51.7 ¹²
16	33.08 ¹²	41.9 ³	15.23 ³¹	57.3 ⁷	44.38 ¹⁵	47.2 ¹	15.76 ¹⁴	52.9 ⁹
26	32.96 ¹³	41.6 ⁶	14.92 ³²	58.0 ²	44.23 ¹⁶	47.3 ²	15.62 ¹⁴	53.8 ⁶
36	32.83	41.0	14.60	58.2	44.07	47.1	15.48	54.4
Mittl. Ort	30.74	20.1	12.44	26.8	41.87	21.4	13.28	57.2
		27)		32)		33)		35)

1909	ε Piscium. 4 ^m .2.		β Phoenicis. 3 ^m .2.		β Andromed. 2 ^m .I.		υ Piscium. 4 ^m .6.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	0 ^h 58 ^m	7° 23'	1 ^h 1 ^m	47° 11'	1 ^h 4 ^m	35° 8'	1 ^h 14 ^m	26° 47'
Jan. 0	12.22	56.3	60.75	103.9	37.05	22.2	26.83	11.1
10	12.11	55.6	60.54	104.1	36.89	21.8	26.69	10.6
20	11.99	55.0	60.32	103.8	36.72	21.1	26.55	9.9
30	11.87	54.3	60.11	103.0	36.55	20.1	26.40	9.1
Febr. 9	11.76	53.7	59.91	101.7	36.39	18.8	26.25	8.1
19	11.67	53.2	59.75	100.0	36.25	17.4	26.12	6.9
März 1	11.59	52.7	59.61	97.8	36.14	15.8	26.02	5.6
11	11.54	52.3	59.51	95.4	36.05	14.2	25.94	4.4
21	11.52	52.2	59.45	92.6	36.01	12.6	25.90	3.3
31	11.54	52.3	59.44	89.6	36.02	11.1	25.90	2.2
April 10	11.61	52.6	59.49	86.1	36.09	9.7	25.94	1.4
20	11.72	53.2	59.59	82.7	36.2	8.6	26.05	0.7
30	11.87	54.1	59.76	79.4	36.37	7.9	26.20	0.4
Mai 10	12.06	55.2	59.97	76.1	36.59	7.5	26.39	0.4
20	12.29	56.5	60.24	72.9	36.85	7.4	26.63	0.7
30	12.55	58.1	60.55	69.8	37.15	7.8	26.91	1.4
Juni 9	12.84	59.8	60.90	67.0	37.48	8.5	27.21	2.4
19	13.15	61.7	61.28	64.5	37.83	9.6	27.54	3.7
29	13.46	63.7	61.68	62.4	38.20	11.0	27.88	5.2
Juli 9	13.78	65.7	62.10	60.7	38.56	12.8	28.22	7.0
19	14.09	67.7	62.51	59.5	38.92	14.7	28.56	9.0
29	14.39	69.7	62.91	58.7	39.26	16.9	28.89	11.0
Aug. 8	14.67	71.6	63.29	58.5	39.58	19.2	29.19	13.2
18	14.92	73.3	63.63	58.9	39.87	21.7	29.47	15.4
28	15.15	74.8	63.94	59.7	40.13	24.1	29.72	17.6
Sept. 7	15.34	76.1	64.20	61.0	40.35	26.6	29.94	19.7
17	15.49	77.1	64.40	62.7	40.54	29.0	30.13	21.7
27	15.62	78.0	64.56	64.7	40.68	31.4	30.27	23.6
Okt. 7	15.70	78.6	64.66	67.0	40.78	33.6	30.39	25.4
17	15.76	79.0	64.70	69.5	40.85	35.6	30.46	26.9
27	15.78	79.2	64.69	72.0	40.88	37.4	30.51	28.3
Nov. 6	15.78	79.3	64.64	74.4	40.88	39.1	30.52	29.5
16	15.75	79.1	64.54	76.8	40.85	40.4	30.51	30.4
26	15.71	78.9	64.40	78.9	40.78	41.5	30.46	31.1
Dez. 6	15.64	78.5	64.23	80.6	40.69	42.3	30.39	31.6
16	15.56	78.0	64.04	82.0	40.58	42.8	30.30	31.8
26	15.46	77.4	63.84	82.9	40.44	42.9	30.19	31.7
36	15.35	76.8	63.62	83.3	40.29	42.7	30.06	31.4
Mitt. Ort	13.13	61.4	61.40	81.8	37.97	18.0	27.68	9.4

36)

38)

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45)

1909	♄ Ceti. 3 ^m .4.			♄ Cassiopej. 2 ^m .7.			♄ Piscium. 3 ^m .6.			♄ Cassiopej. 5 ^m .5.		
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.	
	1 ^h 19 ^m	8° 38'		1 ^h 19 ^m	59° 45'		1 ^h 26 ^m	14° 52'		1 ^h 31 ^m	72° 34'	
Jan. 0	27.73	12 80.4	6	50.39	32 55.9	2	35.93	12 34.6	6	12.84	60 48.2	6
10	27.61	12 81.0	5	50.07	34 56.1	3	35.81	13 34.0	6	12.24	64 48.8	2
20	27.49	12 81.5	4	49.73	34 55.8	8	35.68	13 33.4	7	11.60	64 49.0	5
30	27.37	12 81.9	1	49.39	33 55.0	13	35.55	13 32.7	7	10.96	62 48.5	11
Febr. 9	27.25	11 82.0	1	49.06	29 53.7	17	35.42	12 32.0	8	10.34	57 47.4	16
19	27.14	9 81.9	3	48.77	25 52.0	20	35.30	10 31.2	7	9.77	50 45.8	22
März 1	27.05	7 81.6	5	48.52	20 50.0	23	35.20	8 30.5	7	9.27	41 43.8	24
11	26.98	4 81.1	8	48.32	13 47.7	24	35.12	5 29.8	5	8.86	28 41.4	26
21	26.94	0 80.3	10	48.19	5 45.3	25	35.07	1 29.3	3	8.58	17 38.8	28
31	26.94	4 79.3	12	48.14	3 42.8	25	35.06	4 29.0	2	8.41	2 36.0	28
April 10	26.98	11 78.1	17	48.17	13 40.3	24	35.10	9 28.8	1	8.39	15 33.2	29
20	27.07	12 76.4	17	48.30	21 37.9	20	35.19	12 28.9	4	8.54	27 30.3	25
30	27.19	17 74.7	19	48.51	29 35.9	17	35.31	18 29.3	6	8.81	40 27.8	22
Mai 10	27.36	21 72.8	21	48.80	36 34.2	12	35.49	21 29.9	9	9.21	52 25.6	19
20	27.57	24 70.7	21	49.16	42 33.0	8	35.70	25 30.8	12	9.73	61 23.7	14
30	27.81	27 68.6	22	49.58	47 32.2	4	35.95	28 32.0	14	10.34	70 22.3	8
Juni 9	28.08	3 66.4	23	50.05	50 31.8	2	36.23	30 33.4	15	11.04	76 21.5	4
19	28.38	31 64.1	21	50.55	52 32.0	6	36.53	32 34.9	18	11.80	81 21.1	1
29	28.69	31 62.0	21	51.07	53 32.6	10	36.85	32 36.7	19	12.61	82 21.2	6
Juli 9	29.00	32 59.9	19	51.60	53 33.6	16	37.17	32 38.6	19	13.43	82 21.8	11
19	29.32	31 58.0	17	52.13	50 35.2	19	37.49	32 40.5	20	14.25	80 22.9	16
29	29.63	29 56.3	14	52.63	48 37.1	23	37.81	29 42.5	19	15.05	76 24.5	21
Aug. 8	29.92	26 54.9	12	53.11	44 39.4	26	38.10	28 44.4	19	15.81	71 26.6	24
18	30.18	24 53.7	8	53.55	40 42.0	28	38.38	25 46.3	17	16.52	64 29.0	27
28	30.42	21 52.9	6	53.95	34 44.8	30	38.63	21 48.0	16	17.16	57 31.7	31
Sept. 7	30.63	18 52.3	2	54.29	29 47.8	31	38.84	19 49.6	15	17.73	48 34.8	33
17	30.81	14 52.1	1	54.58	23 50.9	33	39.03	15 51.1	12	18.21	38 38.1	34
27	30.95	11 52.2	4	54.81	17 54.2	32	39.18	12 52.3	11	18.59	29 41.5	35
Okt. 7	31.06	7 52.6	5	54.98	11 57.4	32	39.30	9 53.4	8	18.88	18 45.0	36
17	31.13	5 53.1	8	55.09	5 60.6	31	39.39	6 54.2	6	19.06	7 48.6	35
27	31.18	1 53.9	9	55.14	2 63.7	29	39.45	2 54.8	5	19.13	3 52.1	34
Nov. 6	31.19	1 54.8	10	55.12	7 66.6	26	39.47	1 55.3	3	19.10	14 55.5	32
16	31.18	3 55.8	10	55.05	13 69.2	23	39.48	3 55.6	1	18.96	24 58.7	29
26	31.15	7 56.8	11	54.92	18 71.5	19	39.45	5 55.7	1	18.72	35 61.6	25
Dez. 6	31.08	8 57.9	9	54.74	23 73.4	15	39.40	7 55.6	2	18.37	43 64.1	20
16	31.00	10 58.8	9	54.51	28 74.9	11	39.33	10 55.4	3	17.94	51 66.1	16
26	30.90	10 59.7	7	54.23	30 76.0	5	39.23	10 55.1	5	17.43	58 67.7	11
36	30.80	60.4		53.93	76.5		39.13	54.6		16.85	68.8	
mittl. Ort	28.47	69.8		51.20	45.4		36.69	36.8		13.40	35.7	

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SCHEINBARE STERNÖRTER.

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1909	♄ Persei. 3 ^m .6.		♁ Eridani. 1 ^m .		♃ Cassiopej. 5 ^m .9.		♀ Persei. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	1 ^h 32 ^m	48° 9'	1 ^h 34 ^m	57° 41'	1 ^h 35 ^m	67° 34'	1 ^h 37 ^m	50° 13'
Jan. 0	23.26	70.6	19.55	79.5	34.59	71.0	56.29	58.5
10	23.05	70.7	19.23	79.8	34.14	71.6	56.07	58.7
20	22.82	70.4	18.91	79.7	33.66	71.7	55.82	58.5
30	22.59	69.7	18.59	78.9	33.18	71.1	55.57	57.8
Febr. 9	22.36	68.5	18.29	77.6	32.71	70.1	55.33	56.7
19	22.14	67.1	18.01	75.9	32.27	68.6	55.10	55.3
März 1	21.95	65.3	17.76	73.6	31.89	66.6	54.89	53.6
11	21.81	63.4	17.56	71.0	31.57	64.3	54.73	51.6
21	21.71	61.4	17.41	68.0	31.35	61.8	54.61	49.6
31	21.67	59.4	17.31	64.7	31.23	59.2	54.56	47.5
April 10	21.68	57.4	17.29	61.3	31.21	56.5	54.57	45.5
20	21.78	55.5	17.34	57.3	31.32	53.7	54.66	43.4
30	21.94	54.0	17.45	53.6	31.54	51.3	54.82	41.8
Mai 10	22.16	52.8	17.64	50.0	31.87	49.3	55.04	40.5
20	22.44	52.0	17.89	46.5	32.28	47.6	55.32	39.5
30	22.76	51.5	18.21	43.2	32.78	46.4	55.65	39.0
Juni 9	23.13	51.5	18.58	40.1	33.35	45.6	56.02	38.8
19	23.53	51.9	19.00	37.4	33.97	45.3	56.43	39.1
29	23.95	52.7	19.46	35.0	34.62	45.5	56.86	39.8
Juli 9	24.37	53.9	19.94	33.1	35.29	46.3	57.30	40.9
19	24.79	55.5	20.42	31.8	35.96	47.4	57.74	42.3
29	25.21	57.4	20.91	31.0	36.61	49.0	58.17	44.2
Aug. 8	25.60	59.5	21.38	30.7	37.24	51.0	58.58	46.3
18	25.96	61.9	21.83	31.1	37.81	53.5	58.96	48.6
28	26.29	64.5	22.23	32.0	38.34	56.2	59.31	51.2
Sept. 7	26.58	67.2	22.58	33.4	38.82	59.2	59.61	53.8
17	26.83	69.9	22.88	35.3	39.22	62.4	59.88	56.6
27	27.04	72.7	23.11	37.6	39.55	65.7	60.10	59.5
Okt. 7	27.20	75.5	23.27	40.2	39.80	69.1	60.28	62.3
17	27.32	78.1	23.36	42.9	39.96	72.5	60.41	65.0
27	27.39	80.6	23.38	45.8	40.05	75.8	60.49	67.6
Nov. 6	27.42	83.0	23.33	48.7	40.05	79.1	60.52	70.1
16	27.40	85.1	23.22	51.5	39.97	82.1	60.51	72.4
26	27.34	87.0	23.06	53.9	39.81	84.8	60.45	74.4
Dez. 6	27.25	88.6	22.85	56.0	39.58	87.2	60.35	76.1
16	27.11	89.7	22.59	57.7	39.27	89.1	60.21	77.3
26	26.94	90.5	22.30	58.9	38.89	90.6	60.04	78.2
36	26.74	90.8	22.00	59.6	38.47	91.5	59.83	78.7
MITL. ORT	24.01	62.8	19.61	56.1	35.18	59.3	56.99	50.2

(52)

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1909	♄ Ceti. 3 ^m .4.		♋ Piscium. 4 ^m .3.		♌ Lac. & Sculpt. 5 ^m .3.		♈ Ceti. 3 ^m .5.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	1 ^h 39 ^m	16° 24'	1 ^h 40 ^m	8° 41'	1 ^h 41 ^m	25° 30'	1 ^h 46 ^m	10° 46'
Jan. 0	49.85	72.4	34.51	55.8	22.50	42.0	57.52	74.6
10	49.72	73.1	34.40	55.2	22.36	42.8	57.41	75.3
20	49.59	73.6	34.27	54.6	22.21	43.2	57.28	75.9
30	49.45	73.8	34.14	54.0	22.06	43.3	57.15	76.2
Febr. 9	49.31	73.8	34.01	53.4	21.91	43.1	57.01	76.4
19	49.18	73.4	33.89	52.9	21.77	42.4	56.89	76.3
März 1	49.06	72.8	33.79	52.5	21.65	41.4	56.77	75.9
11	48.97	71.9	33.70	52.2	21.55	40.1	56.68	75.3
21	48.91	70.7	33.64	52.0	21.48	38.5	56.61	74.5
31	48.88	69.2	33.62	52.0	21.44	36.6	56.59	73.4
April 10	48.88	67.5	33.64	52.2	21.45	34.5	56.59	72.1
20	48.94	65.4	33.71	52.7	21.51	31.9	56.65	70.3
30	49.04	63.3	33.82	53.4	21.61	29.3	56.75	68.5
Mai 10	49.19	61.0	33.98	54.3	21.76	26.5	56.89	66.4
20	49.38	58.5	34.18	55.5	21.95	23.8	57.08	64.3
30	49.60	56.0	34.41	56.9	22.18	21.0	57.30	62.1
Juni 9	49.86	53.5	34.68	58.5	22.45	18.3	57.56	59.7
19	50.15	51.1	34.97	60.3	22.75	15.7	57.84	57.4
29	50.45	48.7	35.28	62.1	23.06	13.3	58.14	55.2
Juli 9	50.77	46.5	35.59	64.0	23.39	11.1	58.46	53.1
19	51.08	44.6	35.91	66.0	23.73	9.3	58.77	51.1
29	51.40	43.0	36.22	67.9	24.06	7.8	59.08	49.4
Aug. 8	51.70	41.6	36.52	69.7	24.37	6.7	59.38	47.9
18	51.98	40.6	36.80	71.4	24.67	6.0	59.66	46.8
28	52.23	40.0	37.05	72.9	24.94	5.7	59.92	45.9
Sept. 7	52.46	39.8	37.27	74.2	25.18	5.9	60.15	45.4
17	52.65	39.8	37.47	75.3	25.39	6.4	60.35	45.3
27	52.81	40.3	37.63	76.2	25.56	7.4	60.52	45.5
Okt. 7	52.94	41.1	37.76	76.8	25.69	8.6	60.66	45.9
17	53.03	42.1	37.86	77.3	25.79	10.1	60.76	46.7
27	53.09	43.3	37.93	77.5	25.85	11.8	60.83	47.6
Nov. 6	53.11	44.7	37.97	77.6	25.87	13.7	60.87	48.7
16	53.11	46.1	37.98	77.5	25.86	15.5	60.88	49.8
26	53.07	47.5	37.97	77.3	25.82	17.3	60.86	51.1
Dez. 6	53.01	48.8	37.93	77.0	25.75	19.0	60.81	52.2
16	52.93	50.0	37.87	76.6	25.66	20.4	60.75	53.3
26	52.83	51.1	37.79	76.1	25.55	21.6	60.66	54.3
36	52.72	51.9	37.69	75.5	25.42	22.5	60.55	55.1
Mittl. Ort	50.42	59.6	35.18	60.1	23.00	26.5	58.08	63.8

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62)

SCHEINBARE STERNÖRTER.

1909	α Cassiopej. 3 ^m .3.		α Trianguli. 3 ^m .5.		ξ Piscium. 4 ^m .6.		β Arietis. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	1 ^h 47 ^m	63° 13'	1 ^h 47 ^m	29° 8'	1 ^h 48 ^m	2° 44'	1 ^h 49 ^m	20° 21'
Jan. 0	49.66 ³⁵	31.3 ⁷	52.76 ¹³	11.4 ²	49.98 ¹¹	12.5 ⁶	35.95 ¹²	48.3 ³
10	49.31 ³⁹	32.0 ¹	52.63 ¹⁵	11.2 ⁴	49.87 ¹²	11.9 ⁶	35.83 ¹³	48.0 ⁵
20	48.92 ³⁹	32.1 ⁴	52.48 ¹⁶	10.8 ⁷	49.75 ¹³	11.3 ⁵	35.70 ¹⁵	47.5 ⁷
30	48.53 ³⁸	31.7 ¹⁰	52.32 ¹⁶	10.1 ⁹	49.62 ¹³	10.8 ⁵	35.55 ¹⁴	46.8 ⁷
Febr. 9	48.15 ³⁸	30.7 ¹³	52.16 ¹⁶	9.2 ¹⁰	49.49 ¹³	10.3 ³	35.41 ¹⁴	46.1 ⁸
19	47.77 ³³	29.4 ¹⁸	52.00 ¹³	8.2 ¹¹	49.36 ¹¹	10.0 ²	35.27 ¹²	45.3 ⁸
März 1	47.44 ²⁷	27.6 ²²	51.87 ¹¹	7.1 ¹²	49.25 ⁹	9.8 ⁰	35.15 ¹⁰	44.5 ⁹
11	47.17 ²⁰	25.4 ²³	51.76 ⁸	5.9 ¹²	49.16 ⁶	9.8 ¹	35.05 ⁷	43.6 ⁷
21	46.97 ¹²	23.1 ²⁵	51.68 ⁴	4.7 ¹¹	49.10 ³	9.9 ⁴	34.98 ⁴	42.9 ⁷
31	46.85 ³	20.6 ²⁵	51.64 ¹	3.6 ¹⁰	49.07 ¹	10.3 ⁵	34.94 ¹	42.2 ⁵
April 10	46.82 ⁸	18.1 ²⁷	51.65 ⁷	2.6 ⁸	49.08 ⁶	10.8 ⁹	34.95 ⁷	41.7 ²
20	46.90 ¹⁸	15.4 ²²	51.72 ¹¹	1.8 ⁵	49.14 ¹⁰	11.7 ¹⁰	35.02 ¹¹	41.5 ¹
30	47.08 ²⁶	13.2 ¹⁹	51.83 ¹⁷	1.3 ³	49.24 ¹⁵	12.7 ¹³	35.13 ¹⁶	41.4 ³
Mai 10	47.34 ³⁵	11.3 ¹⁶	52.00 ²²	1.0 ¹	49.39 ¹⁸	14.0 ¹⁵	35.29 ¹⁹	41.7 ⁵
20	47.69 ⁴²	9.7 ¹²	52.22 ²⁵	1.1 ³	49.57 ²³	15.5 ¹⁶	35.48 ²⁴	42.2 ⁸
30	48.11 ⁴⁸	8.5 ⁸	52.47 ²⁹	1.4 ⁷	49.80 ²⁵	17.1 ¹⁸	35.72 ²⁸	43.0 ¹⁰
Juni 9	48.59 ⁵³	7.7 ²	52.76 ³²	2.1 ¹⁰	50.05 ²⁹	18.9 ²⁰	36.00 ³⁰	44.0 ¹⁴
19	49.12 ⁵⁷	7.5 ¹	53.08 ³³	3.1 ¹²	50.34 ³⁰	20.9 ¹⁹	36.30 ³²	45.4 ¹⁵
29	49.69 ⁵⁸	7.6 ⁷	53.41 ³⁵	4.3 ¹⁵	50.64 ³¹	22.8 ²⁰	36.62 ³³	46.9 ¹⁶
Juli 9	50.27 ⁵⁸	8.3 ¹¹	53.76 ³⁵	5.8 ¹⁷	50.95 ³¹	24.8 ²⁰	36.95 ³³	48.5 ¹⁸
19	50.85 ⁵⁷	9.4 ¹⁵	54.11 ³⁴	7.5 ¹⁹	51.26 ³¹	26.8 ¹⁸	37.28 ³²	50.3 ¹⁹
29	51.42 ⁵⁶	10.9 ²⁰	54.45 ³³	9.4 ²⁰	51.57 ³⁰	28.6 ¹⁷	37.60 ³¹	52.2 ¹⁹
Aug. 8	51.98 ⁵²	12.9 ²²	54.78 ³¹	11.4 ²⁰	51.87 ²⁸	30.3 ¹⁵	37.91 ²⁹	54.1 ¹⁹
18	52.50 ⁴⁷	15.1 ²⁶	55.09 ²⁸	13.4 ²¹	52.15 ²⁶	31.8 ¹³	38.20 ²⁷	56.0 ¹⁸
28	52.97 ⁴³	17.7 ²⁸	55.37 ²⁵	15.5 ²⁰	52.41 ²²	33.1 ¹¹	38.47 ²⁵	57.8 ¹⁸
Sept. 7	53.40 ³⁷	20.5 ³¹	55.62 ²²	17.5 ²⁰	52.63 ²⁰	34.2 ⁸	38.72 ²¹	59.6 ¹⁶
17	53.77 ³²	23.6 ³¹	55.84 ¹⁹	19.5 ¹⁹	52.83 ¹⁷	35.0 ⁶	38.93 ¹⁸	61.2 ¹⁵
27	54.09 ²⁵	26.7 ³²	56.03 ¹⁵	21.4 ¹⁸	53.00 ¹⁴	35.6 ³	39.11 ¹⁴	62.7 ¹³
Okt. 7	54.34 ¹⁸	29.9 ³³	56.18 ¹²	23.2 ¹⁶	53.14 ¹¹	35.9 ⁰	39.25 ¹²	64.0 ¹¹
17	54.52 ¹²	33.2 ³¹	56.30 ⁹	24.8 ¹⁵	53.25 ⁷	35.9 ¹	39.37 ⁸	65.1 ¹⁰
27	54.64 ⁴	36.3 ³¹	56.39 ⁵	26.3 ¹³	53.32 ⁵	35.8 ³	39.45 ⁶	66.1 ⁸
Nov. 6	54.68 ³	39.4 ²⁹	56.44 ²	27.6 ¹¹	53.37 ²	35.5 ⁴	39.51 ²	66.9 ⁶
16	54.65 ⁹	42.3 ²⁶	56.46 ¹	28.7 ⁹	53.39 ¹	35.1 ⁵	39.53 ¹	67.5 ⁴
26	54.56 ¹⁶	44.9 ²³	56.45 ⁴	29.6 ⁷	53.38 ³	34.6 ⁷	39.52 ³	67.9 ²
Dec. 6	54.40 ²³	47.2 ¹⁹	56.41 ⁷	30.3 ⁵	53.35 ⁶	33.9 ⁶	39.49 ⁶	68.1 ¹
16	54.17 ²⁸	49.1 ¹⁴	56.34 ¹⁰	30.8 ¹	53.29 ⁸	33.3 ⁶	39.43 ⁸	68.2 ¹
26	53.89 ³³	50.5 ¹⁰	56.24 ¹²	30.9 ⁰	53.21 ⁹	32.7 ⁷	39.35 ¹¹	68.1 ³
36	53.56	51.5	56.12	30.9	53.12	32.0	39.24	67.8
Mittl. Ort	50.19	20.4	53.43	8.9	50.58	18.8	36.60	48.6

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1909	ψ Phoenicis. 4 ^m .5.		γ Eridani. 3 ^m .6.		50 Cassiopej. 4 ^m .0.		υ Ceti. 3 ^m .9.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	1 ^h 49 ^m	46° 44'	1 ^h 52 ^m	52° 3'	1 ^h 55 ^m	71° 58'	1 ^h 55 ^m	21° 30'
Jan. 0	59.75 ²²	74.6 ⁷	24.97 ²⁶	64.3 ⁷	38.32 ⁵⁶	65.2 ¹¹	42.60 ¹³	80.5 ⁹
10	59.53 ²³	75.3 ²	24.71 ²⁷	65.0 ¹	37.76 ⁵⁹	66.3 ⁴	42.47 ¹³	81.4 ⁵
20	59.30 ²⁴	75.5 ³	24.44 ²⁷	65.1 ⁴	37.17 ⁶²	66.7 ²	42.34 ¹⁵	81.9 ⁵
30	59.06 ²³	75.2 ⁸	24.17 ²⁷	64.7 ⁹	36.55 ⁶²	66.5 ⁸	42.19 ¹⁵	82.2 ¹
Febr. 9	58.83 ²²	74.4 ¹³	23.90 ²⁵	63.8 ¹⁵	35.93 ⁵⁸	65.7 ¹²	42.04 ¹⁵	82.1 ⁵
19	58.61 ²⁰	73.1 ¹⁷	23.65 ²³	62.3 ¹⁹	35.35 ⁵²	64.5 ¹⁸	41.89 ¹²	81.6 ⁷
März 1	58.41 ¹⁶	71.4 ²²	23.42 ¹⁹	60.4 ²³	34.83 ⁴⁵	62.7 ²²	41.77 ¹¹	80.9 ¹¹
11	58.25 ¹³	69.2 ²⁵	23.23 ¹⁶	58.1 ²⁷	34.38 ³⁴	60.5 ²⁴	41.66 ⁸	79.8 ¹³
21	58.12 ⁸	66.7 ²⁸	23.07 ¹⁰	55.4 ³⁰	34.04 ²²	58.1 ²⁷	41.58 ⁵	78.5 ¹⁷
31	58.04 ³	63.9 ³¹	22.97 ⁴	52.4 ³²	33.82 ⁹	55.4 ²⁷	41.53 ¹	76.8 ¹⁹
April 10	58.01 ³	60.8 ³⁶	22.93 ¹	49.2 ³⁵	33.73 ⁵	52.7 ²⁷	41.52 ⁴	74.9 ²²
20	58.04 ⁸	57.2 ³³	22.94 ⁹	45.7 ³⁸	33.78 ²²	50.0 ²⁸	41.56 ⁹	72.7 ²⁶
30	58.12 ¹⁵	53.9 ³⁵	23.03 ¹⁵	41.9 ³⁶	34.00 ³³	47.2 ²³	41.65 ¹³	70.1 ²⁵
Mai 10	58.27 ²⁰	50.4 ³⁴	23.18 ²⁰	38.3 ³⁵	34.33 ⁴⁴	44.9 ²⁰	41.78 ¹⁸	67.6 ²⁶
20	58.47 ²⁵	47.0 ³³	23.38 ²⁸	34.8 ³⁴	34.77 ⁵⁶	42.9 ¹⁶	41.96 ²²	65.0 ²⁷
30	58.72 ³⁰	43.7 ³¹	23.66 ³¹	31.4 ³²	35.33 ⁶⁴	41.3 ¹¹	42.18 ²⁵	62.5 ²⁹
Juni 9	59.02 ³⁴	40.6 ²⁹	23.97 ³⁷	28.2 ²⁹	35.97 ⁷²	40.2 ⁷	42.43 ²⁹	59.7 ²⁶
19	59.36 ³⁷	37.7 ²⁵	24.34 ³⁹	25.3 ²⁶	36.69 ⁷⁷	39.5 ²	42.72 ³⁰	57.1 ²⁴
29	59.73 ³⁹	35.2 ²²	24.73 ⁴³	22.7 ²¹	37.46 ⁸⁰	39.3 ⁴	43.02 ³²	54.7 ²²
Juli 9	60.12 ⁴⁰	33.0 ¹⁷	25.16 ⁴³	20.6 ¹⁷	38.26 ⁸¹	39.7 ⁸	43.34 ³²	52.5 ²¹
19	60.52 ⁴⁰	31.3 ¹²	25.59 ⁴⁴	18.9 ¹¹	39.07 ⁸⁰	40.5 ¹³	43.66 ³³	50.5 ¹⁶
29	60.92 ³⁹	30.1 ⁶	26.03 ⁴³	17.8 ⁶	39.87 ⁷⁸	41.8 ¹⁷	43.99 ³¹	48.9 ¹⁵
Aug. 8	61.31 ³⁷	29.5 ²	26.46 ⁴⁰	17.2 ⁰	40.65 ⁷³	43.5 ²¹	44.30 ³⁰	47.6 ⁴
18	61.68 ³⁴	29.3 ⁵	26.86 ³⁸	17.2 ⁶	41.38 ⁶⁸	45.6 ²⁶	44.60 ²⁷	46.7 ⁵
28	62.02 ³⁰	29.8 ⁹	27.24 ³³	17.8 ¹¹	42.06 ⁶²	48.2 ²⁸	44.87 ²⁵	46.2 ¹
Sept. 7	62.32 ²⁷	30.7 ¹⁴	27.57 ²⁹	18.9 ¹⁵	42.68 ⁵⁴	51.0 ³⁰	45.12 ²¹	46.1 ⁴
17	62.59 ²¹	32.1 ¹⁹	27.86 ²³	20.4 ²⁰	43.22 ⁴⁵	54.0 ³³	45.33 ¹⁸	46.5 ⁻
27	62.80 ¹⁶	34.0 ²¹	28.09 ¹⁸	22.4 ²³	43.67 ³⁶	57.3 ³⁴	45.51 ¹⁵	47.2 ¹
Okt. 7	62.96 ¹¹	36.1 ²⁵	28.27 ¹²	24.7 ²⁶	44.03 ²⁷	60.7 ³⁵	45.66 ¹¹	48.2 ¹⁵
17	63.07 ⁵	38.6 ²⁶	28.39 ⁶	27.3 ²⁸	44.30 ¹⁶	64.2 ³⁵	45.77 ⁷	49.5 ¹⁷
27	63.12 ¹	41.2 ²⁷	28.45 ⁰	30.1 ²⁹	44.46 ⁶	67.7 ³⁴	45.84 ⁴	51.1 ¹⁸
Nov. 6	63.13 ⁴	43.9 ²⁶	28.45 ⁶	33.0 ²⁷	44.52 ⁵	71.1 ³²	45.88 ¹	52.7 ¹⁵
16	63.09 ⁹	46.5 ²⁴	28.39 ¹⁰	35.7 ²⁵	44.47 ¹⁶	74.3 ³⁰	45.89 ²	54.5 ¹⁷
26	63.00 ¹³	48.9 ²²	28.29 ¹⁵	38.2 ²³	44.31 ²⁶	77.3 ²⁷	45.87 ⁵	56.2 ¹⁸
Dez. 6	62.87 ¹⁶	51.1 ¹⁹	28.14 ¹⁹	40.5 ¹⁹	44.05 ³⁵	80.0 ²³	45.82 ⁸	57.8 ¹⁴
16	62.71 ¹⁹	53.0 ¹⁴	27.95 ²³	42.4 ¹⁴	43.70 ⁴⁴	82.3 ¹⁸	45.74 ¹⁰	59.2 ¹⁵
26	62.52 ²¹	54.4 ⁹	27.72 ²⁴	43.8 ⁹	43.26 ⁵²	84.1 ¹²	45.64 ¹¹	60.5 ⁹
36	62.31	55.3	27.48	44.7	42.74	85.3	45.53	61.4
Mittl. Ort	59.90	53.8	24.97	42.5	38.57	53.1	43.04	66.6

67)

68)

70)

71)

1909	α Hydri. 2 ^m .9.		γ Andromed. 2 ^m .I.		α Arietis. 2 ^m .O.		β Trianguli. 3 ^m .O.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
		—		+		+		+
	1 ^h 55 ^m	62° 0'	1 ^h 58 ^m	41° 53'	2 ^h 2 ^m	23° 1'	2 ^h 4 ^m	34° 33'
Jan. 0	54.53 ³⁸	68.2 ⁶	17.89 ¹⁸	42.2 ²	1.82 ¹²	57.7 ³	6.88 ¹⁵	30.1 ⁰
10	54.15 ³⁸	68.8 ⁰	17.71 ¹⁹	42.4 ¹	1.70 ¹³	57.4 ⁴	6.73 ¹⁵	30.1 ²
20	53.76 ³⁹	68.8 ⁵	17.52 ²⁰	42.3 ⁵	1.57 ¹⁵	57.0 ⁶	6.57 ¹⁷	29.9 ⁵
30	53.37 ³⁸	68.3 ¹²	17.32 ²⁰	41.8 ⁹	1.42 ¹⁵	56.4 ⁷	6.40 ¹⁸	29.4 ⁸
Febr. 9	52.99 ³⁶	67.1 ¹⁶	17.12 ²⁰	40.9 ¹¹	1.27 ¹⁵	55.7 ⁸	6.22 ¹⁸	28.6 ¹⁰
19	52.63 ³³	65.5 ²²	16.92 ¹⁸	39.8 ¹⁴	1.12 ¹³	54.9 ⁹	6.04 ¹⁶	27.6 ¹²
März 1	52.30 ²⁸	63.3 ¹⁶	16.74 ¹⁵	38.4 ¹⁶	0.99 ¹²	54.0 ⁹	5.88 ¹³	26.4 ¹³
11	52.02 ²³	60.7 ²⁹	16.59 ¹¹	36.8 ¹⁶	0.87 ⁸	53.1 ⁸	5.75 ¹⁰	25.1 ¹³
21	51.79 ¹⁶	57.8 ³³	16.48 ⁷	35.2 ¹⁷	0.79 ⁴	52.3 ⁸	5.65 ⁶	23.8 ¹³
31	51.63 ⁹	54.5 ³⁵	16.41 ⁰	33.5 ¹⁶	0.75 ¹	51.5 ⁶	5.59 ¹	22.5 ¹³
April 10	51.54 ¹	51.0 ³⁶	16.41 ⁴	31.9 ¹⁵	0.74 ⁵	50.9 ⁴	5.58 ⁴	21.2 ¹⁰
20	51.53 ⁷	47.4 ⁴¹	16.45 ¹³	30.4 ¹⁴	0.79 ¹¹	50.5 ³	5.62 ¹¹	20.2 ¹⁰
30	51.60 ¹⁶	43.3 ³⁸	16.58 ¹⁷	29.0 ¹⁰	0.90 ¹⁴	50.2 ¹	5.73 ¹⁶	19.2 ⁶
Mai 10	51.76 ²³	39.5 ³⁶	16.75 ²³	28.0 ⁶	1.04 ¹⁹	50.3 ³	5.89 ²¹	18.6 ³
20	51.99 ³⁰	35.9 ³⁵	16.98 ²⁹	27.4 ⁴	1.23 ²⁴	50.6 ⁶	6.10 ²⁵	18.3 ⁰
30	52.29 ³⁸	32.4 ³²	17.27 ³²	27.0 ¹	1.47 ²⁷	51.2 ⁹	6.35 ³⁰	18.3 ³
Juni 9	52.67 ⁴²	29.2 ²⁹	17.59 ³⁵	27.1 ⁴	1.74 ³⁰	52.1 ¹¹	6.65 ³²	18.6 ⁷
19	53.09 ⁴⁸	26.3 ²⁵	17.94 ³⁷	27.5 ⁷	2.04 ³²	53.2 ¹⁴	6.97 ³⁵	19.3 ⁹
29	53.57 ⁵¹	23.8 ²¹	18.31 ³⁹	28.2 ¹¹	2.36 ³³	54.6 ¹⁵	7.32 ³⁶	20.2 ¹³
Juli 9	54.08 ⁵⁴	21.7 ¹⁵	18.70 ⁴⁰	29.3 ¹⁴	2.69 ³³	56.1 ¹⁷	7.68 ³⁶	21.5 ¹⁵
19	54.62 ⁵⁴	20.2 ¹⁰	19.10 ³⁹	30.7 ¹⁷	3.02 ³³	57.8 ¹⁸	8.04 ³⁶	23.0 ¹⁷
29	55.16 ⁵³	19.2 ³	19.49 ³⁷	32.4 ¹⁹	3.35 ³²	59.6 ¹⁹	8.40 ³⁵	24.7 ¹⁸
Aug. 8	55.69 ⁵¹	18.9 ²	19.86 ³⁵	34.3 ²¹	3.67 ³¹	61.5 ¹⁹	8.75 ³³	26.5 ²⁰
18	56.20 ⁴⁷	19.1 ⁷	20.21 ³³	36.4 ²³	3.98 ²⁸	63.4 ¹⁸	9.08 ³¹	28.5 ²¹
28	56.67 ⁴²	19.8 ¹⁴	20.54 ³⁰	38.7 ²³	4.26 ²⁵	65.2 ¹⁸	9.39 ²⁸	30.6 ²¹
Sept. 7	57.09 ³⁶	21.2 ¹⁸	20.84 ²⁶	41.0 ²⁴	4.51 ²³	67.0 ¹⁷	9.67 ²⁵	32.7 ²¹
17	57.45 ²⁹	23.0 ²³	21.10 ²³	43.4 ²⁴	4.74 ¹⁹	68.7 ¹⁵	9.92 ²¹	34.8 ²¹
27	57.74 ²¹	25.3 ²⁶	21.33 ¹⁸	45.8 ²⁴	4.93 ¹⁷	70.2 ¹⁵	10.13 ¹⁸	36.9 ²⁰
Okt. 7	57.95 ¹⁴	27.9 ²⁹	21.51 ¹⁵	48.2 ²³	5.10 ¹³	71.7 ¹²	10.31 ¹⁵	38.9 ¹⁹
17	58.09 ⁵	30.8 ³⁰	21.66 ¹¹	50.5 ²²	5.23 ¹⁰	72.9 ¹¹	10.46 ¹¹	40.8 ¹⁸
27	58.14 ³	33.8 ³⁰	21.77 ⁶	52.7 ²⁰	5.33 ⁶	74.0 ⁹	10.57 ⁷	42.6 ¹⁶
Nov. 6	58.11 ¹⁰	36.8 ²⁹	21.83 ³	54.7 ¹⁹	5.39 ⁴	74.9 ⁸	10.64 ⁴	44.2 ¹⁵
16	58.01 ¹⁷	39.7 ²⁷	21.86 ¹	56.6 ¹⁶	5.43 ¹	75.7 ⁶	10.68 ⁰	45.7 ¹²
26	57.84 ²³	42.4 ²⁴	21.85 ⁵	58.2 ¹⁴	5.44 ²	76.3 ⁴	10.68 ³	46.9 ¹⁰
Dez. 6	57.61 ²⁹	44.8 ¹⁹	21.80 ⁹	59.6 ¹¹	5.42 ⁶	76.7 ²	10.65 ⁶	47.9 ⁸
16	57.32 ³³	46.7 ¹⁴	21.71 ¹²	60.7 ⁷	5.36 ⁸	76.9 ⁰	10.59 ¹⁰	48.7 ⁵
26	56.99 ³⁶	48.1 ⁹	21.59 ¹⁵	61.4 ⁴	5.28 ¹⁰	76.9 ²	10.49 ¹²	49.2 ²
36	56.63	49.0	21.44	61.8	5.18	76.7	10.37	49.4
Mittl. Ort	54.12	45.0	18.48	36.1	2.41	57.1	7.45	26.0
	72)		73)		74)		75)	

1909	55 Cassiopej. 6 ^m .3.		Iac. μ Forn. 5 ^m .2.		67 Ceti. 5 ^m .8.		♄ Ceti. 4 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	2 ^h 7 ^m	66° 5'	2 ^h 8 ^m	31° 8'	2 ^h 12 ^m	6° 50'	2 ^h 23 ^m	8° 3'
Jan. 0	19.34	65.3	53.82	77.9	26.18	37.2	18.69	5.2
10	18.95	66.3	53.67	78.9	26.07	38.0	18.59	4.6
20	18.52	66.7	53.50	79.5	25.95	38.7	18.47	4.1
30	18.08	66.6	53.33	79.6	25.82	39.2	18.33	3.6
Febr. 9	17.63	65.9	53.15	79.4	25.68	39.4	18.19	3.1
19	17.19	64.8	52.98	78.8	25.54	39.5	18.05	2.7
März 1	16.79	63.2	52.83	77.7	25.41	39.4	17.92	2.3
11	16.45	61.2	52.69	76.3	25.30	39.0	17.80	2.1
21	16.18	58.9	52.58	74.6	25.22	38.4	17.71	2.0
31	16.00	56.5	52.51	72.5	25.17	37.5	17.65	2.0
April 10	15.92	54.0	52.48	70.1	25.15	36.4	17.63	2.3
20	15.95	51.5	52.49	67.5	25.17	35.1	17.65	2.7
30	16.10	48.8	52.56	64.4	25.25	33.4	17.72	3.4
Mai 10	16.34	46.6	52.68	61.5	25.37	31.7	17.84	4.3
20	16.68	44.8	52.84	58.5	25.54	29.7	18.00	5.4
30	17.11	43.4	53.05	55.5	25.74	27.7	18.20	6.7
Juni 9	17.62	42.3	53.30	52.6	25.98	25.5	18.44	8.2
19	18.18	41.7	53.59	49.8	26.24	23.3	18.71	9.9
29	18.78	41.5	53.90	47.2	26.53	21.1	19.00	11.6
Juli 9	19.41	41.9	54.23	45.0	26.84	19.0	19.30	13.4
19	20.06	42.7	54.57	43.0	27.15	17.1	19.62	15.3
29	20.70	43.9	54.91	41.3	27.46	15.3	19.93	17.0
Aug. 8	21.32	45.6	55.24	40.1	27.76	13.7	20.24	18.7
18	21.92	47.6	55.56	39.4	28.05	12.4	20.53	20.3
28	22.48	50.0	55.86	39.2	28.32	11.4	20.81	21.7
Sept. 7	22.99	52.6	56.13	39.4	28.56	10.7	21.06	22.9
17	23.44	55.5	56.37	40.1	28.78	10.3	21.29	23.9
27	23.83	58.6	56.57	41.2	28.97	10.3	21.49	24.7
Okt. 7	24.15	61.8	56.73	42.7	29.13	10.6	21.66	25.3
17	24.40	65.0	56.85	44.5	29.26	11.1	21.81	25.6
27	24.57	68.3	56.94	46.5	29.36	11.8	21.92	25.7
Nov. 6	24.67	71.4	56.98	48.7	29.42	12.7	22.00	25.7
16	24.68	74.5	57.00	50.8	29.46	13.7	22.06	25.5
26	24.61	77.3	56.97	53.0	29.47	14.8	22.08	25.2
Dez. 6	24.46	79.8	56.92	54.9	29.45	15.9	22.08	24.9
16	24.24	82.0	56.83	56.7	29.40	16.9	22.05	24.4
26	23.95	83.7	56.71	58.2	29.33	17.9	21.99	23.9
36	23.59	85.0	56.58	59.4	29.24	18.8	21.91	23.4
Mittl Ort	19.63	54.2	54.06	61.6	26.61	28.3	19.13	9.2
	76)		78)		80)		85)	

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1909	36 H. Cassiop. 5 ^m .4.		v Arietis. 5 ^m .6.		μ Hydri. 5 ^m .5.		δ Ceti. 3 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	2 ^h 29 ^m	72° 25'	2 ^h 33 ^m	21° 34'	2 ^h 33 ^m	79° 29'	2 ^h 34 ^m	0° 3'
Jan. 0	21.72 ⁵¹	27.0 ¹⁴	38.33 ¹⁰	6.2 ¹	38.98 ¹¹³	106.1 ⁸	48.65 ⁹	55.6 ⁷
10	21.21 ⁵⁸	28.4 ⁸	38.23 ¹³	6.1 ³	37.85 ¹²⁰	106.9 ³	48.56 ¹²	56.3 ⁶
20	20.63 ⁶³	29.2 ³	38.10 ¹⁴	5.8 ⁵	36.65 ¹²²	107.2 ⁴	48.44 ¹³	56.9 ⁶
30	20.00 ⁶⁴	29.5 ³	37.96 ¹⁶	5.3 ⁵	35.43 ¹²¹	106.8 ¹⁰	48.31 ¹⁴	57.5 ⁴
Febr. 9	19.36 ⁶³	29.2 ⁹	37.80 ¹⁶	4.8 ⁶	34.22 ¹¹⁷	105.8 ¹⁶	48.17 ¹⁵	57.9 ²
19	18.73 ⁵⁹	28.3 ¹³	37.64 ¹⁵	4.2 ⁷	33.05 ¹⁰⁹	104.2 ²⁰	48.02 ¹³	58.1 ¹
März 1	18.14 ⁵²	27.0 ¹⁸	37.49 ¹³	3.5 ⁷	31.96 ¹⁰⁰	102.2 ²⁵	47.89 ¹³	58.2 ¹
11	17.62 ⁴²	25.2 ²²	37.36 ¹¹	2.8 ⁷	30.96 ⁸⁷	99.7 ²⁹	47.76 ¹⁰	58.1 ²
21	17.20 ³²	23.0 ²⁴	37.25 ⁷	2.1 ⁶	30.09 ⁷²	96.8 ³³	47.66 ⁷	57.9 ⁵
31	16.88 ¹⁹	20.6 ²⁶	37.18 ⁴	1.5 ⁵	29.37 ⁵⁶	93.5 ³⁵	47.59 ³	57.4 ⁷
April 10	16.69 ⁵	18.0 ²⁷	37.14 ²	1.0 ⁴	28.81 ³⁸	90.0 ³⁶	47.56 ⁰	56.7 ⁹
20	16.64 ⁹	15.3 ²⁶	37.16 ⁶	0.6 ¹	28.43 ¹⁹	86.4 ³⁷	47.56 ⁵	55.8 ¹¹
30	16.73 ²⁶	12.7 ²⁷	37.22 ¹²	0.5 ⁰	28.24 ²	82.7 ⁴³	47.61 ¹¹	54.7 ¹⁵
Mai 10	16.99 ³⁷	10.0 ²³	37.34 ¹⁶	0.5 ³	28.26 ²²	78.4 ³⁷	47.72 ¹⁵	53.2 ¹⁵
20	17.36 ⁵⁰	7.7 ¹⁹	37.50 ²¹	0.8 ⁶	28.48 ⁴¹	74.7 ³⁶	47.87 ¹⁹	51.7 ¹⁷
30	17.86 ⁶⁰	5.8 ¹⁵	37.71 ²⁵	1.4 ⁸	28.89 ⁶⁰	71.1 ³³	48.06 ²²	50.0 ¹⁸
Juni 9	18.46 ⁶⁹	4.3 ¹⁰	37.96 ²⁷	2.2 ¹⁰	29.49 ⁷⁷	67.8 ³⁰	48.28 ²⁵	48.2 ²⁰
19	19.15 ⁷⁵	3.3 ⁶	38.23 ³¹	3.2 ¹²	30.26 ⁹¹	64.8 ²⁷	48.53 ²⁹	46.2 ²⁰
29	19.90 ⁸⁰	2.7 ²	38.54 ³²	4.4 ¹⁴	31.17 ¹⁰³	62.1 ²¹	48.82 ²⁹	44.2 ¹⁹
Juli 9	20.70 ⁸⁴	2.5 ⁴	38.86 ³²	5.8 ¹⁵	32.20 ¹¹⁴	60.0 ¹⁷	49.11 ³¹	42.3 ¹⁹
19	21.54 ⁸⁴	2.9 ⁸	39.18 ³³	7.3 ¹⁷	33.34 ¹¹⁹	58.3 ¹¹	49.42 ³¹	40.4 ¹⁸
29	22.38 ⁸³	3.7 ¹³	39.51 ³³	9.0 ¹⁷	34.53 ¹²²	57.2 ⁵	49.73 ³⁰	38.6 ¹⁷
Aug. 8	23.21 ⁸¹	5.0 ¹⁷	39.84 ³¹	10.7 ¹⁷	35.75 ¹²¹	56.7 ¹	50.03 ²⁹	36.9 ¹⁴
18	24.02 ⁷⁶	6.7 ²¹	40.15 ³⁰	12.4 ¹⁶	36.96 ¹¹⁶	56.8 ⁷	50.32 ²⁸	35.5 ¹²
28	24.78 ⁷²	8.8 ²⁴	40.45 ²⁷	14.0 ¹⁶	38.12 ¹⁰⁷	57.5 ¹³	50.60 ²⁶	34.3 ⁹
Sept. 7	25.50 ⁶⁵	11.2 ²⁷	40.72 ²⁵	15.6 ¹⁵	39.19 ⁹⁵	58.8 ¹⁸	50.86 ²³	33.4 ⁷
17	26.15 ⁵⁷	13.9 ³⁰	40.97 ²²	17.1 ¹⁴	40.14 ⁸⁰	60.6 ²³	51.09 ²¹	32.7 ⁴
27	26.72 ⁴⁸	16.9 ³²	41.19 ²⁰	18.5 ¹²	40.94 ⁶²	62.9 ²⁷	51.30 ¹⁸	32.3 ¹
Okt. 7	27.20 ³⁹	20.1 ³³	41.39 ¹⁶	19.7 ¹¹	41.56 ⁴¹	65.6 ³⁰	51.48 ¹⁵	32.2 ²
17	27.59 ²⁹	23.4 ³⁴	41.55 ¹³	20.8 ⁹	41.97 ²⁰	68.6 ³¹	51.63 ¹²	32.4 ⁴
27	27.88 ¹⁸	26.8 ³⁴	41.68 ¹⁰	21.7 ⁸	42.17 ²	71.7 ³²	51.75 ⁹	32.8 ⁵
Nov. 6	28.06 ⁷	30.2 ³³	41.78 ⁷	22.5 ⁶	42.15 ²⁵	74.9 ³²	51.84 ⁷	33.3 ⁷
16	28.13 ⁵	33.5 ³¹	41.85 ⁴	23.1 ⁵	41.90 ⁴⁷	78.1 ²⁹	51.91 ³	34.0 ⁸
26	28.08 ¹⁷	36.6 ²⁹	41.89 ¹	23.6 ⁴	41.43 ⁶⁶	81.0 ²⁶	51.94 ⁰	34.8 ⁸
Dez. 6	27.91 ²⁷	39.5 ²⁶	41.90 ³	24.0 ²	40.77 ⁸³	83.6 ²¹	51.94 ³	35.6 ⁸
16	27.64 ³⁷	42.1 ²²	41.87 ⁶	24.2 ¹	39.94 ⁹⁷	85.7 ¹⁸	51.91 ⁵	36.4 ⁸
26	27.27 ⁴⁸	44.3 ¹⁷	41.81 ⁸	24.3 ¹	38.97 ¹¹⁰	87.5 ¹¹	51.86 ⁸	37.2 ⁷
36	26.79	46.0	41.73	24.2	37.87	88.6	51.78	37.9
MITT. ORT	21.52	15.3	38.75	6.0	34.74	83.4	49.00	49.2
	87)		89)		90)		91)	

1909	♁ Persei. 4 ^m .I.		π Ceti. 4 ^m .O.		μ Ceti. 4 ^m .2.		41 Arietis. 3 ^m .6.	
	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +
	2 ^h 37 ^m	48° 50'	2 ^h 39 ^m	14° 14'	2 ^h 39 ^m	9° 43'	2 ^h 44 ^m	26° 53'
Jan. 0	58.34	46.0	47.25	47.9	60.88	45.9	37.06	11.0
10	58.17	46.7	47.14	48.9	60.79	45.4	36.96	11.1
20	57.96	47.1	47.01	49.7	60.67	44.9	36.83	10.9
30	57.72	47.1	46.87	50.2	60.54	44.4	36.68	10.6
Febr. 9	57.47	46.6	46.72	50.5	60.39	44.0	36.51	10.1
19	57.23	45.8	46.56	50.4	60.25	43.6	36.34	9.5
März 1	56.99	44.7	46.41	50.1	60.11	43.2	36.18	8.8
11	56.78	43.3	46.28	49.6	59.98	42.9	36.03	7.9
21	56.60	41.6	46.17	48.7	59.87	42.7	35.91	7.1
31	56.47	39.9	46.08	47.5	59.80	42.7	35.82	6.3
April 10	56.41	38.1	46.04	46.1	59.76	42.8	35.77	5.5
20	56.40	36.3	46.03	44.4	59.77	43.2	35.77	4.8
30	56.47	34.6	46.07	42.5	59.82	43.7	35.83	4.3
Mai 10	56.62	32.9	46.17	40.2	59.93	44.5	35.94	4.0
20	56.82	31.7	46.30	37.9	60.07	45.5	36.10	4.0
30	57.08	30.8	46.48	35.5	60.26	46.7	36.30	4.2
Juni 9	57.40	30.2	46.69	33.1	60.49	48.0	36.55	4.7
19	57.76	30.0	46.94	30.7	60.75	49.6	36.83	5.4
29	58.16	30.1	47.22	28.3	61.03	51.2	37.14	6.3
Juli 9	58.57	30.6	47.51	26.0	61.34	52.9	37.46	7.5
19	59.01	31.4	47.82	23.9	61.65	54.6	37.80	8.8
29	59.44	32.6	48.13	22.1	61.96	56.4	38.14	10.3
Aug. 8	59.87	34.1	48.44	20.5	62.28	58.0	38.48	12.0
18	60.29	35.8	48.74	19.3	62.57	59.6	38.81	13.5
28	60.69	37.7	49.02	18.4	62.86	61.0	39.12	15.1
Sept. 7	61.05	39.8	49.29	18.0	63.12	62.2	39.41	16.8
17	61.39	42.1	49.53	17.9	63.36	63.2	39.68	18.4
27	61.70	44.5	49.74	18.2	63.58	64.0	39.92	20.0
Okt. 7	61.96	46.9	49.93	18.8	63.77	64.7	40.13	21.4
17	62.18	49.4	50.08	19.7	63.93	65.1	40.31	22.7
27	62.36	51.8	50.20	20.9	64.07	65.3	40.46	23.9
Nov. 6	62.50	54.2	50.29	22.3	64.17	65.3	40.58	25.0
16	62.58	56.4	50.35	23.7	64.24	65.2	40.67	26.0
26	62.62	58.5	50.37	25.3	64.28	65.0	40.72	26.8
Dez. 6	62.62	60.3	50.36	26.8	64.29	64.7	40.73	27.5
16	62.56	61.9	50.33	28.3	64.27	64.3	40.71	28.0
26	62.45	63.2	50.27	29.5	64.22	63.9	40.66	28.3
36	62.30	64.2	50.18	30.6	64.15	63.4	40.58	28.5
Mittl. Ort	58.66	38.6	47.47	37.4	61.24	49.2	37.44	9.2

93)

97)

98)

100)

1909	β Fornacis. 4 ^m .4.		ε ² Eridani. 4 ^m .8.		τ Persei. 4 ^m .0.		γ Eridani. 3 ^m .7.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.
	2 ^h 45 ^m	32° 46'	2 ^h 46 ^m	21° 22'	2 ^h 47 ^m	52° 23'	2 ^h 51 ^m	9° 15'
Jan. 0	16.94 ¹⁴	91.2 ¹³	54.52 ¹²	56.2 ¹²	47.68 ¹⁹	34.2 ¹⁰	58.66 ¹⁰	44.5 ¹⁰
10	16.80 ¹⁷	92.5 ⁹	54.40 ¹³	57.4 ⁸	47.49 ²³	35.2 ⁵	58.56 ¹¹	45.5 ⁸
20	16.63 ¹⁸	93.4 ⁵	54.27 ¹⁶	58.2 ⁶	47.26 ²⁶	35.7 ¹	58.45 ¹⁴	46.3 ⁶
30	16.45 ²⁰	93.9 ⁰	54.11 ¹⁶	58.8 ²	47.00 ²⁷	35.8 ²	58.31 ¹⁵	46.9 ³
Febr. 9	16.25 ¹⁹	93.9 ⁴	53.95 ¹⁷	59.0 ²	46.73 ²⁸	35.6 ⁸	58.16 ¹⁵	47.2 ¹
19	16.06 ¹⁹	93.5 ⁹	53.78 ¹⁶	58.8 ⁴	46.45 ²⁶	34.8 ¹⁰	58.01 ¹⁵	47.3 ¹
März 1	15.87 ¹⁷	92.6 ¹²	53.62 ¹⁵	58.4 ⁹	46.19 ²⁵	33.8 ¹⁴	57.86 ¹⁴	47.2 ⁴
11	15.70 ¹⁵	91.4 ¹⁶	53.47 ¹³	57.5 ¹¹	45.94 ²⁰	32.4 ¹⁷	57.72 ¹²	46.8 ⁶
21	15.55 ¹²	89.8 ²⁰	53.34 ⁹	56.4 ¹⁵	45.74 ¹⁵	30.7 ¹⁸	57.60 ⁹	46.2 ⁹
31	15.43 ⁷	87.8 ²³	53.25 ⁶	54.9 ¹⁷	45.59 ⁹	28.9 ¹⁹	57.51 ⁵	45.3 ¹¹
April 10	15.36 ³	85.5 ²⁵	53.19 ²	53.2 ²⁰	45.50 ³	27.0 ¹⁹	57.46 ¹	44.2 ¹⁴
20	15.33 ¹	83.0 ²⁸	53.17 ³	51.2 ²³	45.47 ⁵	25.1 ¹⁹	57.45 ²	42.8 ¹⁶
30	15.34 ⁸	80.2 ³²	53.20 ⁸	48.9 ²⁷	45.52 ¹⁴	23.2 ¹⁹	57.47 ⁹	41.2 ²⁰
Mai 10	15.42 ¹³	77.0 ³¹	53.28 ¹²	46.2 ²⁶	45.66 ²⁰	21.3 ¹⁴	57.56 ¹²	39.2 ²⁰
20	15.55 ¹⁸	73.9 ³¹	53.40 ¹⁷	43.6 ²⁷	45.86 ²⁶	19.9 ¹²	57.68 ¹⁷	37.2 ²¹
30	15.73 ²¹	70.8 ³¹	53.57 ²¹	40.9 ²⁷	46.12 ³²	18.7 ⁸	57.85 ²¹	35.1 ²²
Juni 9	15.94 ²⁵	67.7 ²⁹	53.78 ²⁴	38.2 ²⁷	46.44 ³⁸	17.9 ⁴	58.06 ²⁴	32.9 ²³
19	16.19 ²⁹	64.8 ²⁸	54.02 ²⁸	35.5 ²⁵	46.82 ⁴¹	17.5 ²	58.30 ²⁶	30.6 ²²
29	16.48 ³¹	62.0 ²⁶	54.30 ³⁰	33.0 ²⁴	47.23 ⁴⁴	17.3 ³	58.56 ²⁹	28.4 ²²
Juli 9	16.79 ³³	59.4 ²²	54.60 ³¹	30.6 ²²	47.67 ⁴⁶	17.6 ⁶	58.85 ³⁰	26.2 ²⁰
19	17.12 ³⁴	57.2 ¹⁸	54.91 ³¹	28.4 ¹⁹	48.13 ⁴⁶	18.2 ¹⁰	59.15 ³¹	24.2 ¹⁹
29	17.46 ³⁴	55.4 ¹⁴	55.22 ³²	26.5 ¹⁵	48.59 ⁴⁶	19.2 ¹⁴	59.46 ³¹	22.3 ¹⁶
Aug. 8	17.80 ³³	54.0 ⁹	55.54 ³¹	25.0 ¹¹	49.05 ⁴⁵	20.6 ¹⁶	59.77 ³⁰	20.7 ¹³
18	18.13 ³²	53.1 ⁵	55.85 ²⁹	23.9 ⁷	49.50 ⁴³	22.2 ¹⁸	60.07 ²⁸	19.4 ¹⁰
28	18.45 ²⁹	52.6 ¹	56.14 ²⁸	23.2 ³	49.93 ⁴⁰	24.0 ²¹	60.35 ²⁷	18.4 ⁶
Sept. 7	18.74 ²⁷	52.7 ⁶	56.42 ²⁵	22.9 ²	50.33 ³⁷	26.1 ²²	60.62 ²⁴	17.8 ³
17	19.01 ²⁴	53.3 ¹⁰	56.67 ²²	23.1 ⁵	50.70 ³³	28.3 ²⁴	60.86 ²²	17.5 ⁰
27	19.25 ²⁰	54.3 ¹⁵	56.89 ¹⁹	23.6 ¹⁰	51.03 ³⁰	30.7 ²⁵	61.08 ²⁰	17.5 ⁴
Okt. 7	19.45 ¹⁶	55.8 ¹⁸	57.08 ¹⁶	24.6 ¹³	51.33 ²⁵	33.2 ²⁶	61.28 ¹⁶	17.9 ⁷
17	19.61 ¹³	57.6 ²¹	57.24 ¹³	25.9 ¹⁶	51.58 ²¹	35.8 ²⁵	61.44 ¹⁴	18.6 ⁹
27	19.74 ⁹	59.7 ²³	57.37 ¹⁰	27.5 ¹⁷	51.79 ¹⁶	38.3 ²⁵	61.58 ¹⁰	19.5 ¹¹
Nov. 6	19.83 ⁴	62.0 ²³	57.47 ⁶	29.2 ¹⁹	51.95 ¹¹	40.8 ²⁴	61.68 ⁸	20.6 ¹³
16	19.87 ¹	64.3 ²⁴	57.53 ²	31.1 ¹⁹	52.06 ⁵	43.2 ²³	61.76 ⁴	21.9 ¹³
26	19.88 ³	66.7 ²²	57.55 ¹	33.0 ¹⁸	52.11 ⁰	45.5 ²¹	61.80 ¹	23.2 ¹³
Dez. 6	19.85 ⁶	68.9 ²¹	57.54 ⁴	34.8 ¹⁷	52.11 ⁶	47.6 ¹⁸	61.81 ²	24.5 ¹³
16	19.79 ¹⁰	71.0 ¹⁸	57.50 ⁷	36.5 ¹⁶	52.05 ¹¹	49.4 ¹⁵	61.79 ⁵	25.8 ¹²
26	19.69 ¹³	72.8 ¹⁵	57.43 ¹⁰	38.1 ¹³	51.94 ¹⁶	50.9 ¹²	61.74 ⁸	27.0 ¹⁰
36	19.56	74.3	57.33	39.4	51.78	52.1	61.66	28.0
MITT. ORT	16.90	75.9	54.63	43.9	47.90	26.2	58.86	35.8

101)

102)

103)

104)

1909	47 H. Cephei. 5 ^m .8.		θ Eridani. 2 ^m .9.		α Ceti. 2 ^m .5.		γ Persei. 3 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	2 ^h 53 ^m 79° 3'		2 ^h 54 ^m 40° 39'		2 ^h 57 ^m 3° 43'		2 ^h 58 ^m 53° 8'	
Jan. 0	58.20 ⁸¹ 48.3 ¹⁹		48.85 ¹⁷ 84.7 ¹⁵		30.99 ⁸ 54.5 ⁶		11.75 ¹⁹ 70.3 ¹⁰	
10	57.39 ⁹³ 50.2 ¹⁴		48.68 ²⁰ 86.2 ⁹		30.91 ¹¹ 53.9 ⁶		11.56 ²³ 71.3 ⁷	
20	56.46 ¹⁰² 51.6 ⁸		48.48 ²² 87.1 ⁵		30.80 ¹³ 53.3 ⁵		11.33 ²⁶ 72.0 ³	
30	55.44 ¹⁰⁶ 52.4 ¹		48.26 ²² 87.6 ⁰		30.67 ¹⁴ 52.8 ⁵		11.07 ²⁸ 72.3 ²	
Febr. 9	54.38 ¹⁰⁶ 52.5 ⁴		48.04 ²⁴ 87.6 ⁴		30.53 ¹⁵ 52.3 ³		10.79 ²⁹ 72.1 ⁶	
19	53.32 ¹⁰² 52.1 ¹¹		47.80 ²² 87.2 ¹⁰		30.38 ¹⁵ 52.0 ²		10.50 ²⁷ 71.5 ¹⁰	
März 1	52.30 ⁹³ 51.0 ¹⁵		47.58 ²¹ 86.2 ¹⁴		30.23 ¹⁴ 51.8 ¹		10.23 ²⁶ 70.5 ¹³	
11	51.37 ⁷⁹ 49.5 ²⁰		47.37 ¹⁸ 84.8 ¹⁸		30.09 ¹² 51.7 ¹		9.97 ²² 69.2 ¹⁵	
21	50.58 ⁶⁴ 47.5 ²⁴		47.19 ¹⁵ 83.0 ²²		29.97 ⁸ 51.8 ³		9.75 ¹⁷ 67.7 ¹⁸	
31	49.94 ⁴⁴ 45.1 ²⁶		47.04 ¹⁰ 80.8 ²⁶		29.89 ⁶ 52.1 ⁴		9.58 ¹¹ 65.9 ¹⁹	
April 10	49.50 ²³ 42.5 ²⁸		46.94 ⁶ 78.2 ²⁸		29.83 ¹ 52.5 ⁷		9.47 ³ 64.0 ¹⁹	
20	49.27 ¹ 39.7 ²⁸		46.88 ¹ 75.4 ³⁰		29.82 ¹ 53.2 ⁹		9.44 ³ 62.1 ¹⁹	
30	49.26 ²⁴ 36.9 ³⁰		46.87 ⁶ 74.4 ³⁶		29.85 ³ 54.1 ¹¹		9.47 ¹² 60.2 ¹⁹	
Mai 10	49.50 ⁴³ 33.9 ²⁵		46.93 ¹¹ 68.8 ³³		29.93 ¹³ 55.2 ¹³		9.59 ¹⁹ 58.3 ¹⁶	
20	49.93 ⁶⁴ 31.4 ²³		47.04 ¹⁶ 65.5 ³³		30.06 ¹⁷ 56.5 ¹⁴		9.78 ²⁵ 56.7 ¹²	
30	50.57 ⁸² 29.1 ¹⁹		47.20 ²² 62.2 ³³		30.23 ²¹ 57.9 ¹⁷		10.03 ³² 55.5 ⁹	
Juni 9	51.39 ⁹⁷ 27.2 ¹⁶		47.42 ²⁵ 58.9 ³¹		30.44 ²⁴ 59.6 ¹⁷		10.35 ³⁷ 54.6 ⁶	
19	52.36 ¹⁰⁹ 25.6 ¹¹		47.67 ³⁰ 55.8 ³⁰		30.68 ²⁷ 61.3 ¹⁸		10.72 ⁴¹ 54.0 ³	
29	53.45 ¹¹⁹ 24.5 ⁷		47.97 ³² 52.8 ²⁶		30.95 ²⁹ 63.1 ¹⁸		11.13 ⁴⁴ 53.7 ¹	
Juli 9	54.64 ¹²⁵ 23.8 ¹		48.29 ³⁵ 50.2 ²⁴		31.24 ³⁰ 64.9 ¹⁸		11.57 ⁴⁶ 53.8 ⁵	
19	55.89 ¹³⁰ 23.7 ³		48.64 ³⁶ 47.8 ¹⁷		31.54 ³¹ 66.7 ¹⁸		12.03 ⁴⁷ 54.3 ⁹	
29	57.19 ¹³⁰ 24.0 ⁸		49.00 ³⁶ 46.1 ¹⁴		31.85 ³¹ 68.5 ¹⁶		12.50 ⁴⁷ 55.2 ¹¹	
Aug. 8	58.49 ¹²⁸ 24.8 ¹³		49.36 ³⁶ 44.7 ⁹		32.16 ³⁰ 70.1 ¹⁴		12.97 ⁴⁶ 56.3 ¹⁵	
18	59.77 ¹²⁵ 26.1 ¹⁷		49.72 ³⁴ 43.8 ²		32.46 ²⁸ 71.5 ¹³		13.43 ⁴⁵ 57.8 ¹⁷	
28	61.02 ¹¹⁸ 27.8 ²¹		50.06 ³² 43.6 ¹		32.74 ²⁷ 72.8 ¹⁰		13.88 ⁴¹ 59.5 ²⁰	
Sept. 7	62.20 ¹⁰⁹ 29.9 ²⁵		50.38 ³⁰ 43.7 ⁸		33.01 ²⁵ 73.8 ⁷		14.29 ³⁹ 61.5 ²²	
17	63.29 ⁹⁸ 32.4 ²⁸		50.68 ²⁶ 44.5 ¹³		33.26 ²³ 74.5 ⁶		14.68 ³⁶ 63.7 ²³	
27	64.27 ⁸⁶ 35.2 ³¹		50.94 ²² 45.8 ¹⁷		33.49 ²⁰ 75.1 ²		15.04 ³¹ 66.0 ²⁴	
Okt. 7	65.13 ⁷² 38.3 ³³		51.16 ¹⁸ 47.5 ²¹		33.69 ¹⁷ 75.3 ⁰		15.35 ²⁷ 68.4 ²⁵	
17	65.85 ⁵⁵ 41.6 ³⁴		51.34 ¹⁵ 49.6 ²⁴		33.86 ¹⁵ 75.3 ¹		15.62 ²³ 70.9 ²⁶	
27	66.40 ³⁹ 45.0 ³⁵		51.49 ⁹ 52.0 ²⁶		34.01 ¹¹ 75.2 ⁴		15.85 ¹⁸ 73.5 ²⁵	
Nov. 6	66.79 ²⁰ 48.5 ³⁵		51.58 ⁵ 54.6 ²⁷		34.12 ⁹ 74.8 ⁵		16.03 ¹³ 76.0 ²⁴	
16	66.99 ¹ 52.0 ³⁴		51.63 ⁰ 57.3 ²⁶		34.21 ⁶ 74.3 ⁶		16.16 ⁷ 78.4 ²³	
26	67.00 ¹⁹ 55.4 ³³		51.63 ⁴ 59.9 ²⁶		34.27 ² 73.7 ⁷		16.23 ¹ 80.7 ²²	
Dez. 6	66.81 ³⁷ 58.7 ³⁰		51.59 ⁸ 62.5 ²³		34.29 ¹ 73.0 ⁷		16.24 ⁴ 82.9 ¹⁹	
16	66.44 ⁵⁶ 61.7 ²⁶		51.51 ¹² 64.8 ²⁰		34.28 ⁴ 72.3 ⁷		16.20 ¹⁰ 84.8 ¹⁶	
26	65.88 ⁷¹ 64.3 ²¹		51.39 ¹⁵ 66.8 ¹⁶		34.24 ⁶ 71.6 ⁶		16.10 ¹⁶ 86.4 ¹²	
36	65.17 ³⁷ 66.4 ²¹		51.24 ¹⁵ 68.4 ¹⁶		34.18 ⁶ 71.0 ⁶		15.94 ¹⁶ 87.6 ¹²	
Mittl. Ort	56.83	36.7	48.57	68.2	31.25	59.3	11.88	62.3
	105)		106)		107)		108)	

SCHEINBARE STERNÖRTER.

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1909	ρ Persei. (3 ^m .8.)		μ Horologii. 5 ^m .1.		β Persei. (2 ^m .2.)		δ Arietis. 4 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	2 ^h 59 ^m	38° 29'	3 ^h 1 ^m	60° 4'	3 ^h 2 ^m	40° 36'	3 ^h 6 ^m	19° 22'
Jan. 0	20.16 ₁₂	22.3 ₅	29.17 ₃₃	105.4 ₁₄	14.34 ₁₃	25.4 ₇	25.10 ₉	58.7 ₂
10	20.04 ₁₆	22.8 ₅	28.84 ₃₆	106.8 ₁₀	14.21 ₁₆	26.1 ₃	25.01 ₁₁	58.5 ₂
20	19.88 ₁₈	23.1 ₀	28.48 ₃₉	107.8 ₃	14.05 ₁₈	26.4 ₁	24.90 ₁₄	58.3 ₃
30	19.70 ₁₉	23.1 ₃	28.09 ₃₉	108.1 ₂	13.87 ₂₁	26.5 ₃	24.76 ₁₅	58.0 ₄
Febr. 9	19.51 ₂₀	22.8 ₆	27.70 ₄₀	107.9 ₈	13.66 ₂₁	26.2 ₅	24.61 ₁₆	57.6 ₄
19	19.31 ₂₁	22.2 ₈	27.30 ₃₉	107.1 ₁₃	13.45 ₂₁	25.7 ₉	24.45 ₁₆	57.2 ₅
März 1	19.10 ₁₈	21.4 ₁₀	26.91 ₃₆	105.8 ₁₈	13.24 ₁₉	24.8 ₁₀	24.29 ₁₅	56.7 ₅
11	18.92 ₁₆	20.4 ₁₂	26.55 ₃₃	104.0 ₂₃	13.05 ₁₇	23.8 ₁₂	24.14 ₁₃	56.2 ₅
21	18.76 ₁₂	19.2 ₁₃	26.22 ₂₇	101.7 ₂₇	12.88 ₁₃	22.6 ₁₃	24.01 ₁₀	55.7 ₅
31	18.64 ₇	17.9 ₁₃	25.95 ₂₂	99.0 ₃₀	12.75 ₈	21.3 ₁₄	23.91 ₆	55.2 ₃
April 10	18.57 ₂	16.6 ₁₃	25.73 ₁₅	96.0 ₃₃	12.67 ₂	19.9 ₁₄	23.85 ₂	54.9 ₂
20	18.55 ₃	15.3 ₁₁	25.58 ₇	92.7 ₃₆	12.65 ₃	18.5 ₁₂	23.83 ₃	54.7 ₁
30	18.58 ₁₁	14.2 ₁₁	25.51 ₀	89.1 ₄₀	12.68 ₁₀	17.3 ₁₂	23.86 ₈	54.6 ₁
Mai 10	18.69 ₁₆	13.1 ₇	25.51 ₉	85.1 ₃₇	12.78 ₁₆	16.1 ₉	23.94 ₁₃	54.7 ₄
20	18.85 ₂₁	12.4 ₅	25.60 ₁₆	81.4 ₃₇	12.94 ₂₁	15.2 ₆	24.07 ₁₈	55.1 ₅
30	19.06 ₂₆	11.9 ₃	25.76 ₂₃	77.7 ₃₆	13.15 ₂₆	14.6 ₄	24.25 ₂₁	55.6 ₈
Juni 9	19.32 ₃₀	11.6 ₁	25.99 ₃₀	74.1 ₃₃	13.41 ₃₁	14.2 ₀	24.46 ₂₆	56.4 ₉
19	19.62 ₃₃	11.7 ₃	26.29 ₃₇	70.8 ₃₁	13.72 ₃₃	14.2 ₂	24.72 ₂₈	57.3 ₁₂
29	19.95 ₃₆	12.0 ₇	26.66 ₄₁	67.7 ₂₆	14.05 ₃₇	14.4 ₅	25.00 ₃₀	58.5 ₁₂
Juli 9	20.31 ₃₇	12.7 ₉	27.07 ₄₅	65.1 ₂₃	14.42 ₃₈	14.9 ₉	25.30 ₃₂	59.7 ₁₄
19	20.68 ₃₈	13.6 ₁₁	27.52 ₄₉	62.8 ₁₇	14.80 ₃₉	15.8 ₁₀	25.62 ₃₂	61.1 ₁₅
29	21.06 ₃₈	14.7 ₁₄	28.01 ₄₉	61.1 ₁₂	15.19 ₃₉	16.8 ₁₃	25.94 ₃₃	62.6 ₁₅
Aug. 8	21.44 ₃₇	16.1 ₁₅	28.50 ₅₀	59.9 ₆	15.58 ₃₈	18.1 ₁₅	26.27 ₃₂	64.1 ₁₅
18	21.81 ₃₅	17.6 ₁₇	29.00 ₄₈	59.3 ₁	15.96 ₃₆	19.6 ₁₇	26.59 ₃₀	65.6 ₁₅
28	22.16 ₃₃	19.3 ₁₈	29.48 ₄₆	59.4 ₆	16.32 ₃₄	21.3 ₁₇	26.89 ₂₉	67.1 ₁₃
Sept. 7	22.49 ₃₁	21.1 ₁₈	29.94 ₄₃	60.0 ₁₁	16.66 ₃₂	23.0 ₁₉	27.18 ₂₇	68.4 ₁₃
17	22.80 ₂₉	22.9 ₁₉	30.37 ₃₇	61.1 ₁₈	16.98 ₃₀	24.9 ₁₉	27.45 ₂₅	69.7 ₁₁
27	23.09 ₂₅	24.8 ₁₉	30.74 ₃₂	62.9 ₂₃	17.28 ₂₆	26.8 ₂₀	27.70 ₂₂	70.8 ₁₀
Okt. 7	23.34 ₂₂	26.7 ₁₈	31.06 ₂₅	65.2 ₂₆	17.54 ₂₃	28.8 ₁₉	27.92 ₁₉	71.8 ₉
17	23.56 ₁₉	28.5 ₁₈	31.31 ₁₈	67.8 ₃₀	17.77 ₂₀	30.7 ₁₉	28.11 ₁₇	72.7 ₇
27	23.75 ₁₅	30.3 ₁₇	31.49 ₁₁	70.8 ₃₁	17.97 ₁₅	32.6 ₁₉	28.28 ₁₄	73.4 ₅
Nov. 6	23.90 ₁₁	32.0 ₁₇	31.60 ₃	73.9 ₃₁	18.12 ₁₂	34.5 ₁₇	28.42 ₁₀	73.9 ₅
16	24.01 ₇	33.7 ₁₅	31.63 ₅	77.0 ₃₁	18.24 ₇	36.2 ₁₇	28.52 ₈	74.4 ₃
26	24.08 ₃	35.2 ₁₃	31.58 ₁₁	80.1 ₂₉	18.31 ₃	37.9 ₁₄	28.60 ₄	74.7 ₂
Dez. 6	24.11 ₁	36.5 ₁₂	31.47 ₁₈	83.0 ₂₆	18.34 ₁	39.3 ₁₃	28.64 ₀	74.9 ₂
16	24.10 ₅	37.7 ₉	31.29 ₂₅	85.6 ₂₂	18.33 ₅	40.6 ₁₀	28.64 ₃	75.1 ₀
26	24.05 ₁₀	38.6 ₇	31.04 ₂₉	87.8 ₁₈	18.28 ₁₀	41.6 ₈	28.61 ₇	75.1 ₁
36	23.95	39.3	30.75	89.6	18.18	42.4	28.54	75.0
Mid. Ort	20.43	17.5	28.00	86.0	14.58	20.2	25.36	58.9

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1909	12 Eridani. 3 ^m .6.		48 H. Cephei. 5 ^m .9.		α Persei. 1 ^m .9.		ο Tauri. 3 ^m .6.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	3 ^h 8 ^m	29° 20'	3 ^h 8 ^m	77° 23'	3 ^h 17 ^m	49° 32'	3 ^h 19 ^m	8° 42'
Jan. 0	12.40 ¹³	57.0 ¹⁴	45.59 ⁶⁴	76.6 ²⁰	49.10 ¹⁴	23.3 ¹¹	54.68 ⁷	29.6 ⁵
10	12.27 ¹⁵	58.4 ¹¹	44.95 ⁷⁷	78.6 ¹⁵	48.96 ¹⁹	24.4 ⁷	54.61 ¹⁰	29.1 ⁴
20	12.12 ¹⁷	59.5 ⁶	44.18 ⁸⁵	80.1 ⁹	48.77 ²²	25.1 ⁴	54.51 ¹³	28.6 ⁵
30	11.95 ¹⁸	60.1 ³	43.33 ⁹¹	81.0 ⁴	48.55 ²⁵	25.5 ⁰	54.38 ¹⁴	28.2 ⁴
Febr. 9	11.77 ²⁰	60.4 ²	42.42 ⁹¹	81.4 ³	48.30 ²⁶	25.5 ³	54.24 ¹⁶	27.8 ³
19	11.57 ¹⁹	60.2 ⁵	41.51 ⁹⁰	81.1 ⁹	48.04 ²⁶	25.2 ⁸	54.08 ¹⁵	27.5 ³
März 1	11.38 ¹⁷	59.7 ¹⁰	40.61 ⁸³	80.2 ¹³	47.78 ²⁵	24.4 ¹⁰	53.93 ¹⁵	27.2 ²
11	11.21 ¹⁶	58.7 ¹³	39.78 ⁷²	78.9 ¹⁸	47.53 ²¹	23.4 ¹⁴	53.78 ¹³	27.0 ¹
21	11.05 ¹³	57.4 ¹⁷	39.06 ⁶⁰	77.1 ²³	47.32 ¹⁸	22.0 ¹⁵	53.65 ¹¹	26.9 ¹
31	10.92 ⁹	55.7 ²¹	38.46 ⁴²	74.8 ²⁴	47.14 ¹²	20.5 ¹⁷	53.54 ⁷	26.9 ²
April 10	10.83 ⁵	53.6 ²³	38.04 ²⁵	72.4 ²⁷	47.02 ⁶	18.8 ¹⁷	53.47 ³	27.1 ³
20	10.78 ¹	51.3 ²⁶	37.79 ⁶	69.7 ²⁷	46.96 ¹	17.1 ¹⁷	53.44 ¹	27.4 ⁶
30	10.77 ⁴	48.7 ²⁸	37.73 ¹⁴	67.0 ²⁷	46.97 ⁸	15.4 ¹⁶	53.45 ⁶	28.0 ⁷
Mai 10	10.81 ¹¹	45.9 ³²	37.87 ³⁶	64.3 ²⁸	47.05 ¹⁶	13.8 ¹⁵	53.51 ¹²	28.7 ¹⁰
20	10.92 ¹⁵	42.7 ³⁰	38.23 ⁵¹	61.5 ²⁴	47.21 ²²	12.3 ¹²	53.63 ¹⁵	29.7 ¹¹
30	11.07 ¹⁹	39.7 ³⁰	38.74 ⁶⁸	59.1 ²⁰	47.43 ²⁸	11.1 ⁹	53.78 ¹⁹	30.8 ¹³
Juni 9	11.26 ²³	36.7 ²⁹	39.42 ⁸²	57.1 ¹⁷	47.71 ³²	10.2 ⁶	53.97 ²³	32.1 ¹⁵
19	11.49 ²⁷	33.8 ²⁸	40.24 ⁹³	55.4 ¹²	48.03 ³⁷	9.6 ³	54.20 ²⁶	33.6 ¹⁵
29	11.76 ²⁹	31.0 ²⁶	41.17 ¹⁰³	54.2 ⁸	48.40 ⁴¹	9.3 ⁰	54.46 ²⁹	35.1 ¹⁶
Juli 9	12.05 ³¹	28.4 ²⁴	42.20 ¹⁰⁹	53.4 ⁴	48.81 ⁴²	9.3 ⁴	54.75 ²⁹	36.7 ¹⁶
19	12.36 ³³	26.0 ²⁰	43.29 ¹¹⁴	53.0 ²	49.23 ⁴⁴	9.7 ⁷	55.04 ³¹	38.3 ¹⁶
29	12.69 ³²	24.0 ¹⁶	44.43 ¹¹⁶	53.2 ⁶	49.67 ⁴⁴	10.4 ¹⁰	55.35 ³¹	39.9 ¹⁶
Aug. 8	13.01 ³³	22.4 ¹¹	45.59 ¹²⁴	53.8 ¹¹	50.11 ⁴⁴	11.4 ¹³	55.66 ³⁰	41.5 ¹⁴
18	13.34 ³¹	21.3 ⁷	46.73 ¹¹²	54.9 ¹⁴	50.55 ⁴³	12.7 ¹⁵	55.96 ³⁰	42.9 ¹²
28	13.65 ³¹	20.6 ¹	47.85 ¹⁰⁷	56.3 ¹⁹	50.98 ⁴⁰	14.2 ¹⁷	56.26 ²⁸	44.1 ¹¹
Sept. 7	13.96 ²⁷	20.5 ³	48.92 ¹⁰¹	58.2 ²³	51.38 ³⁹	15.9 ¹⁹	56.54 ²⁶	45.2 ⁹
17	14.23 ²⁵	20.8 ⁸	49.93 ⁹²	60.5 ²⁶	51.77 ³⁵	17.8 ²⁰	56.80 ²⁵	46.1 ⁶
27	14.48 ²²	21.6 ¹²	50.85 ⁸²	63.1 ²⁹	52.12 ³²	19.8 ²¹	57.05 ²²	46.7 ⁵
Okt. 7	14.70 ¹⁹	22.8 ¹⁶	51.67 ⁷⁰	66.0 ³²	52.44 ²⁸	21.9 ²³	57.27 ²⁰	47.2 ²
17	14.89 ¹⁴	24.4 ¹⁹	52.37 ⁵⁶	69.2 ³³	52.72 ²⁵	24.2 ²²	57.47 ¹⁷	47.4 ¹
27	15.03 ¹²	26.3 ²¹	52.93 ⁴¹	72.5 ³⁴	52.97 ²⁰	26.4 ²²	57.64 ¹⁴	47.5 ¹
Nov. 6	15.15 ⁷	28.4 ²³	53.34 ²⁶	75.9 ³⁴	53.17 ¹⁵	28.6 ²²	57.78 ¹¹	47.4 ³
16	15.22 ⁴	30.7 ²³	53.60 ¹⁰	79.3 ³⁴	53.32 ¹⁰	30.8 ²¹	57.89 ⁸	47.1 ³
26	15.26 ⁰	33.0 ²²	53.70 ⁸	82.7 ³²	53.42 ⁶	32.9 ²⁰	57.97 ⁵	46.8 ⁴
Dez. 6	15.26 ³	35.2 ²¹	53.62 ²⁵	85.9 ³⁰	53.48 ¹	34.9 ¹⁸	58.02 ²	46.4 ⁵
16	15.23 ⁸	37.3 ¹⁹	53.37 ⁴¹	88.9 ²⁷	53.47 ⁶	36.7 ¹⁵	58.04 ²	45.9 ⁵
26	15.15 ¹⁰	39.2 ¹⁵	52.96 ⁵⁶	91.6 ²³	53.41 ¹¹	38.2 ¹³	58.02 ⁶	45.4 ⁵
36	15.05	40.7	52.40	93.9	53.30	39.5	57.96	44.9
Mittl. Ort	12.27	43.7	44.28	65.5	49.18	16.5	54.86	32.7

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SCHENBARE STERNÖRTER.

1909	2 H. Camelop. 4 ^m .4.		γ Tauri. 4 ^m .I.		ε Fridani. 3 ^m .5.		δ Persei. 3 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	3 ^h 21 ^m 59 ^s 37'		3 ^h 25 ^m 12 ^s 37'		3 ^h 28 ^m 9 ^s 45'		3 ^h 36 ^m 47 ^s 29'	
Jan. 0	41.60 ²⁰ 34.8 ¹⁵		50.65 ⁷ 29.0 ³		38.53 ⁸ 65.0 ¹²		26.42 ¹² 56.1 ¹¹	
10	41.40 ²⁷ 36.3 ¹¹		50.58 ¹⁰ 28.7 ⁴		38.45 ¹¹ 66.2 ⁹		26.30 ¹⁶ 57.2 ⁹	
20	41.13 ³¹ 37.4 ⁷		50.48 ¹³ 28.3 ³		38.34 ¹³ 67.1 ⁷		26.14 ²⁰ 58.1 ⁵	
30	40.82 ³⁴ 38.1 ²		50.35 ¹⁵ 28.0 ⁴		38.21 ¹⁵ 67.8 ⁵		25.94 ²³ 58.6 ¹	
Febr. 9	40.48 ³⁵ 38.3 ³		50.20 ¹⁵ 27.6 ⁴		38.06 ¹⁶ 68.3 ²		25.71 ²⁵ 58.7 ²	
19	40.13 ³⁶ 38.0 ⁷		50.05 ¹⁶ 27.2 ³		37.90 ¹⁷ 68.5 ⁰		25.46 ²⁶ 58.5 ⁵	
März 1	39.77 ³³ 37.3 ¹¹		49.89 ¹⁵ 26.9 ³		37.73 ¹⁶ 68.5 ³		25.20 ²⁴ 58.0 ⁹	
11	39.44 ²⁹ 36.2 ¹⁵		49.74 ¹⁴ 26.6 ²		37.57 ¹⁴ 68.2 ⁶		24.96 ²² 57.1 ¹¹	
21	39.15 ²⁴ 34.7 ¹⁸		49.60 ¹¹ 26.4 ¹		37.43 ¹² 67.6 ⁸		24.74 ¹⁸ 56.0 ¹⁴	
31	38.91 ¹⁸ 32.9 ²⁰		49.49 ⁸ 26.3 ⁰		37.31 ⁹ 66.8 ¹⁰		24.56 ¹³ 54.6 ¹⁴	
April 10	38.73 ⁹ 30.9 ²¹		49.41 ⁴ 26.3 ¹		37.22 ⁵ 65.8 ¹³		24.43 ⁸ 53.2 ¹⁶	
20	38.64 ² 28.8 ²¹		49.37 ¹ 26.4 ³		37.17 ¹ 64.5 ¹⁶		24.35 ¹ 51.6 ¹⁶	
30	38.62 ⁸ 26.7 ²¹		49.38 ⁵ 26.7 ⁵		37.16 ⁴ 62.9 ¹⁸		24.34 ⁵ 50.0 ¹⁵	
Mai 10	38.70 ¹⁸ 24.6 ²¹		49.43 ¹² 27.2 ⁸		37.20 ⁹ 61.1 ²¹		24.39 ¹³ 48.5 ¹⁴	
20	38.88 ²⁵ 22.5 ¹⁷		49.55 ¹⁵ 28.0 ⁸		37.29 ¹³ 59.0 ²¹		24.52 ¹⁹ 47.1 ¹²	
30	39.13 ³³ 20.8 ¹⁴		49.70 ¹⁹ 28.8 ¹¹		37.42 ¹⁸ 56.9 ²²		24.71 ²⁵ 45.9 ⁹	
Juni 9	39.46 ³⁹ 19.4 ¹¹		49.89 ²³ 29.9 ¹²		37.60 ²¹ 54.7 ²³		24.96 ²⁹ 45.0 ⁷	
19	39.85 ⁴⁵ 18.3 ⁷		50.12 ²⁶ 31.1 ¹³		37.81 ²⁴ 52.4 ²²		25.25 ³⁵ 44.3 ⁴	
29	40.30 ⁴⁹ 17.6 ³		50.38 ²⁹ 32.4 ¹⁵		38.05 ²⁶ 50.2 ²²		25.60 ³⁸ 43.9 ⁰	
Juli 9	40.79 ⁵¹ 17.3 ⁰		50.67 ³⁰ 33.9 ¹⁵		38.31 ²⁹ 48.0 ²⁰		25.98 ⁴⁰ 43.9 ²	
19	41.30 ⁵⁴ 17.3 ⁴		50.97 ³¹ 35.4 ¹⁵		38.60 ³⁰ 46.0 ¹⁹		26.38 ⁴² 44.1 ⁶	
29	41.84 ⁵⁵ 17.7 ⁸		51.28 ³¹ 36.9 ¹⁴		38.90 ³⁰ 44.1 ¹⁷		26.80 ⁴³ 44.7 ⁸	
Aug. 8	42.39 ⁵⁴ 18.5 ¹⁰		51.59 ³¹ 38.3 ¹⁴		39.20 ³⁰ 42.4 ¹³		27.23 ⁴² 45.5 ¹⁰	
18	42.93 ⁵³ 19.5 ¹⁴		51.90 ³⁰ 39.7 ¹³		39.50 ²⁹ 41.1 ¹¹		27.65 ⁴² 46.5 ¹³	
28	43.46 ⁵¹ 20.9 ¹⁸		52.20 ²⁹ 41.0 ¹¹		39.79 ²⁸ 40.0 ⁷		28.07 ⁴¹ 47.8 ¹⁵	
Sept. 7	43.97 ⁴⁸ 22.7 ¹⁹		52.49 ²⁷ 42.1 ¹⁰		40.07 ²⁶ 39.3 ³		28.48 ³⁸ 49.3 ¹⁷	
17	44.45 ⁴⁵ 24.6 ²³		52.76 ²⁵ 43.1 ⁸		40.33 ²⁴ 39.0 ⁰		28.86 ³⁶ 51.0 ¹⁸	
27	44.90 ⁴⁰ 26.9 ²⁴		53.01 ²³ 43.9 ⁶		40.57 ²² 39.0 ⁴		29.22 ³⁴ 52.8 ¹⁹	
Okt. 7	45.30 ³⁶ 29.3 ²⁵		53.24 ²¹ 44.5 ⁴		40.79 ²⁰ 39.4 ⁷		29.56 ²⁹ 54.7 ²⁰	
17	45.66 ³¹ 31.8 ²⁶		53.45 ¹⁸ 44.9 ³		40.99 ¹⁷ 40.1 ¹⁰		29.85 ²⁶ 56.7 ²⁰	
27	45.97 ²⁴ 34.4 ²⁷		53.63 ¹⁵ 45.2 ¹		41.16 ¹³ 41.1 ¹²		30.11 ²² 58.7 ²⁰	
Nov. 6	46.21 ¹⁹ 37.1 ²⁷		53.78 ¹² 45.3 ⁰		41.29 ¹¹ 42.3 ¹³		30.33 ¹⁸ 60.7 ²¹	
16	46.40 ¹² 39.8 ²⁷		53.90 ⁹ 45.3 ¹		41.40 ⁸ 43.6 ¹⁵		30.51 ¹³ 62.8 ¹⁹	
26	46.52 ⁵ 42.5 ²⁵		53.99 ⁶ 45.2 ²		41.48 ⁴ 45.1 ¹⁵		30.64 ⁸ 64.7 ¹⁹	
Dec. 6	46.57 ³ 45.0 ²³		54.05 ² 45.0 ³		41.52 ⁰ 46.6 ¹⁴		30.72 ² 66.6 ¹⁷	
16	46.54 ¹⁰ 47.3 ²⁰		54.07 ² 44.7 ³		41.52 ³ 48.0 ¹³		30.74 ³ 68.3 ¹⁵	
26	46.44 ¹⁶ 49.3 ¹⁷		54.05 ⁵ 44.4 ³		41.49 ⁶ 49.3 ¹²		30.71 ⁸ 69.8 ¹³	
36	46.28 ¹ 51.0 ¹		54.00 ¹ 44.1 ¹		41.43 ¹ 50.5 ¹		30.63 ¹ 71.1 ¹	
Mittl. Ort	41.45 26.3		50.81 31.0		38.55 57.3		26.42 50.0	

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1909	12 Eridani. 3 ^m .6.		48 H. Cephei. 5 ^m .9.		α Persei. 1 ^m .9.		ο Tauri. 3 ^m .6.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	3 ^h 8 ^m	29° 20'	3 ^h 8 ^m	77° 23'	3 ^h 17 ^m	49° 32'	3 ^h 19 ^m	8° 42'
Jan. 0	12.40	57.0	45.59	76.6	49.10	23.3	54.68	29.6
10	12.27	58.4	44.95	78.6	48.96	24.4	54.61	29.1
20	12.12	59.5	44.18	80.1	48.77	25.1	54.51	28.6
30	11.95	60.1	43.33	81.0	48.55	25.5	54.38	28.2
Febr. 9	11.77	60.4	42.42	81.4	48.30	25.5	54.24	27.8
19	11.57	60.2	41.51	81.1	48.04	25.2	54.08	27.5
März 1	11.38	59.7	40.61	80.2	47.78	24.4	53.93	27.2
11	11.21	58.7	39.78	78.9	47.53	23.4	53.78	27.0
21	11.05	57.4	39.06	77.1	47.32	22.0	53.65	26.9
31	10.92	55.7	38.46	74.8	47.14	20.5	53.54	26.9
April 10	10.83	53.6	38.04	72.4	47.02	18.8	53.47	27.1
20	10.78	51.3	37.79	69.7	46.96	17.1	53.44	27.4
30	10.77	48.7	37.73	67.0	46.97	15.4	53.45	28.0
Mai 10	10.81	45.9	37.87	64.3	47.05	13.8	53.51	28.7
20	10.92	42.7	38.23	61.5	47.21	12.3	53.63	29.7
30	11.07	39.7	38.74	59.1	47.43	11.1	53.78	30.8
Juni 9	11.26	36.7	39.42	57.1	47.71	10.2	53.97	32.1
19	11.49	33.8	40.24	55.4	48.03	9.6	54.20	33.6
29	11.76	31.0	41.17	54.2	48.40	9.3	54.46	35.1
Juli 9	12.05	28.4	42.20	53.4	48.81	9.3	54.75	36.7
19	12.36	26.0	43.29	53.0	49.23	9.7	55.04	38.3
29	12.69	24.0	44.43	53.2	49.67	10.4	55.35	39.9
Aug. 8	13.01	22.4	45.59	53.8	50.11	11.4	55.66	41.5
18	13.34	21.3	46.73	54.9	50.55	12.7	55.96	42.9
28	13.65	20.6	47.85	56.3	50.98	14.2	56.26	44.1
Sept. 7	13.96	20.5	48.92	58.2	51.38	15.9	56.54	45.2
17	14.23	20.8	49.93	60.5	51.77	17.8	56.80	46.1
27	14.48	21.6	50.85	63.1	52.12	19.8	57.05	46.7
Okt. 7	14.70	22.8	51.67	66.0	52.44	21.9	57.27	47.2
17	14.89	24.4	52.37	69.2	52.72	24.2	57.47	47.4
27	15.03	26.3	52.93	72.5	52.97	26.4	57.64	47.5
Nov. 6	15.15	28.4	53.34	75.9	53.17	28.6	57.78	47.4
16	15.22	30.7	53.60	79.3	53.32	30.8	57.89	47.1
26	15.26	33.0	53.70	82.7	53.42	32.9	57.97	46.8
Dez. 6	15.26	35.2	53.62	85.9	53.48	34.9	58.02	46.4
16	15.23	37.3	53.37	88.9	53.47	36.7	58.04	45.9
26	15.15	39.2	52.96	91.6	53.41	38.2	58.02	45.4
36	15.05	40.7	52.40	93.9	53.30	39.5	57.96	44.9
Mini. Ort	12.27	43.7	44.28	65.5	49.18	16.5	54.86	32.7

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1909	2 H. Camelop. 4 ^m .4.			γ Tauri. 4 ^m .I.			ε Fridani. 3 ^m .5.			δ Persei. 3 ^m .0.		
	AR.	Dekl. +		AR.	Dekl. +		AR.	Dekl. -		AR.	Dekl. +	
	3 ^h 21 ^m	59° 37'		3 ^h 25 ^m	12° 37'		3 ^h 28 ^m	9° 45'		3 ^h 36 ^m	47° 29'	
Jan. 0	41.60 ²⁰	34.8 ¹⁵		50.65 ⁷	29.0 ³		38.53 ⁸	65.0 ¹²		26.42 ¹²	56.1 ¹¹	
10	41.40 ²⁷	36.3 ¹¹		50.58 ¹⁰	28.7 ⁴		38.45 ¹¹	66.2 ⁹		26.30 ¹⁶	57.2 ⁹	
20	41.13 ³¹	37.4 ⁷		50.48 ¹³	28.3 ³		38.34 ¹³	67.1 ⁷		26.14 ²⁰	58.1 ⁵	
30	40.82 ³⁴	38.1 ²		50.35 ¹⁵	28.0 ⁴		38.21 ¹⁵	67.8 ⁵		25.94 ²³	58.6 ¹	
Febr. 9	40.48 ³⁵	38.3 ³		50.20 ¹⁵	27.6 ⁴		38.06 ¹⁶	68.3 ²		25.71 ²⁵	58.7 ²	
19	40.13 ³⁶	38.0 ⁷		50.05 ¹⁶	27.2 ³		37.90 ¹⁷	68.5 ⁰		25.46 ²⁶	58.5 ⁵	
März 1	39.77 ³³	37.3 ¹¹		49.89 ¹⁵	26.9 ³		37.73 ¹⁶	68.5 ³		25.20 ²⁴	58.0 ⁹	
11	39.44 ²⁹	36.2 ¹⁵		49.74 ¹⁴	26.6 ²		37.57 ¹⁴	68.2 ⁶		24.96 ²²	57.1 ¹¹	
21	39.15 ²⁴	34.7 ¹⁸		49.60 ¹¹	26.4 ¹		37.43 ¹²	67.6 ⁸		24.74 ¹⁸	56.0 ¹⁴	
31	38.91 ¹⁸	32.9 ²⁰		49.49 ⁸	26.3 ⁰		37.31 ⁹	66.8 ¹⁰		24.56 ¹³	54.6 ¹⁴	
April 10	38.73 ⁹	30.9 ²¹		49.41 ⁴	26.3 ¹		37.22 ⁵	65.8 ¹³		24.43 ⁸	53.2 ¹⁶	
20	38.64 ²	28.8 ²¹		49.37 ¹	26.4 ³		37.17 ¹	64.5 ¹⁶		24.35 ¹	51.6 ¹⁶	
30	38.62 ⁸	26.7 ²¹		49.38 ⁵	26.7 ⁵		37.16 ⁴	62.9 ¹⁸		24.34 ⁵	50.0 ¹⁵	
Mai 10	38.70 ¹⁸	24.6 ²¹		49.43 ¹²	27.2 ⁸		37.20 ⁹	61.1 ²¹		24.39 ¹³	48.5 ¹⁴	
20	38.88 ²⁵	22.5 ¹⁷		49.55 ¹⁵	28.0 ⁸		37.29 ¹³	59.0 ²¹		24.52 ¹⁹	47.1 ¹²	
30	39.13 ³³	20.8 ¹⁴		49.70 ¹⁹	28.8 ¹¹		37.42 ¹⁸	56.9 ²²		24.71 ²⁵	45.9 ⁹	
Juni 9	39.46 ³⁹	19.4 ¹¹		49.89 ²³	29.9 ¹²		37.60 ²¹	54.7 ²³		24.96 ²⁹	45.0 ⁷	
19	39.85 ⁴⁵	18.3 ⁷		50.12 ²⁶	31.1 ¹³		37.81 ²⁴	52.4 ²²		25.25 ³⁵	44.3 ⁴	
29	40.30 ⁴⁹	17.6 ³		50.38 ²⁹	32.4 ¹⁵		38.05 ²⁶	50.2 ²²		25.60 ³⁸	43.9 ⁰	
Juli 9	40.79 ⁵¹	17.3 ⁰		50.67 ³⁰	33.9 ¹⁵		38.31 ²⁹	48.0 ²⁰		25.98 ⁴⁰	43.9 ²	
19	41.30 ⁵⁴	17.3 ⁴		50.97 ³¹	35.4 ¹⁵		38.60 ³⁰	46.0 ¹⁹		26.38 ⁴²	44.1 ⁶	
29	41.84 ⁵⁵	17.7 ⁸		51.28 ³¹	36.9 ¹⁴		38.90 ³⁰	44.1 ¹⁷		26.80 ⁴³	44.7 ⁸	
Aug. 8	42.39 ⁵⁴	18.5 ¹⁰		51.59 ³¹	38.3 ¹⁴		39.20 ³⁰	42.4 ¹³		27.23 ⁴²	45.5 ¹⁰	
18	42.93 ⁵³	19.5 ¹⁴		51.90 ³⁰	39.7 ¹³		39.50 ²⁹	41.1 ¹¹		27.65 ⁴²	46.5 ¹³	
28	43.46 ⁵¹	20.9 ¹⁸		52.20 ²⁹	41.0 ¹¹		39.79 ²⁸	40.0 ⁷		28.07 ⁴¹	47.8 ¹⁵	
Sept. 7	43.97 ⁴⁸	22.7 ¹⁹		52.49 ²⁷	42.1 ¹⁰		40.07 ²⁶	39.3 ³		28.48 ³⁸	49.3 ¹⁷	
17	44.45 ⁴⁵	24.6 ²³		52.76 ²⁵	43.1 ⁸		40.33 ²⁴	39.0 ⁰		28.86 ³⁶	51.0 ¹⁸	
27	44.90 ⁴⁰	26.9 ²⁴		53.01 ²³	43.9 ⁶		40.57 ²²	39.0 ⁴		29.22 ³⁴	52.8 ¹⁹	
Okt. 7	45.30 ³⁶	29.3 ²⁵		53.24 ²¹	44.5 ⁴		40.79 ²⁰	39.4 ⁷		29.56 ²⁹	54.7 ²⁰	
17	45.66 ³¹	31.8 ²⁶		53.45 ¹⁸	44.9 ³		40.99 ¹⁷	40.1 ¹⁰		29.85 ²⁶	56.7 ²⁰	
27	45.97 ²⁴	34.4 ²⁷		53.63 ¹⁵	45.2 ¹		41.16 ¹³	41.1 ¹²		30.11 ²²	58.7 ²⁰	
Nov. 6	46.21 ¹⁹	37.1 ²⁷		53.78 ¹²	45.3 ⁰		41.29 ¹¹	42.3 ¹³		30.33 ¹⁸	60.7 ²¹	
16	46.40 ¹²	39.8 ²⁷		53.90 ⁹	45.3 ¹		41.40 ⁸	43.6 ¹⁵		30.51 ¹³	62.8 ¹⁹	
26	46.52 ⁵	42.5 ²⁵		53.99 ⁶	45.2 ²		41.48 ⁴	45.1 ¹⁵		30.64 ⁸	64.7 ¹⁹	
Dez. 6	46.57 ³	45.0 ²³		54.05 ²	45.0 ³		41.52 ⁰	46.6 ¹⁴		30.72 ²	66.6 ¹⁷	
16	46.54 ¹⁰	47.3 ²⁰		54.07 ²	44.7 ³		41.52 ³	48.0 ¹³		30.74 ³	68.3 ¹⁵	
26	46.44 ¹⁶	49.3 ¹⁷		54.05 ⁵	44.4 ³		41.49 ⁶	49.3 ¹²		30.71 ⁸	69.8 ¹³	
36	46.28	51.0		54.00	44.1		41.43	50.5		30.63	71.1	
mittl. Ort	41.45	26.3		50.81	31.0		38.55	57.3		26.42	50.0	

122)

125)

127)

131)

1909	v Persei. 3 ^m .9.		5 H. Camelop. 4 ^m .5.		η Tauri. 3 ^m .0.		τ ⁶ Eridani. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.
	3 ^h 38 ^m	42° 17'	3 ^h 40 ^m	71° 2'	3 ^h 42 ^m	23° 49'	3 ^h 42 ^m	23° 30'
Jan. 0	60.38	35.2	45.02	79.6	4.24	28.4	56.15	75.4
10	60.29	36.1	44.70	81.7	4.17	28.5	56.06	77.0
20	60.14	36.8	44.27	83.4	4.08	28.6	55.93	78.2
30	59.97	37.2	43.76	84.5	3.94	28.5	55.78	79.2
Febr. 9	59.76	37.3	43.21	85.1	3.79	28.3	55.61	79.8
19	59.54	37.0	42.62	85.2	3.62	28.0	55.42	80.0
März 1	59.31	36.5	42.03	84.8	3.44	27.6	55.24	79.8
11	59.09	35.8	41.46	83.8	3.27	27.2	55.05	79.3
21	58.89	34.8	40.94	82.4	3.12	26.7	54.88	78.4
31	58.73	33.6	40.50	80.6	2.99	26.1	54.73	77.1
April 10	58.61	32.4	40.16	78.4	2.89	25.6	54.62	75.5
20	58.54	31.0	39.93	76.1	2.84	25.2	54.54	73.7
30	58.53	29.7	39.83	73.6	2.83	24.9	54.51	71.6
Mai 10	58.58	28.5	39.86	71.1	2.87	24.7	54.52	69.2
20	58.70	27.3	40.05	68.5	2.98	24.7	54.58	66.4
30	58.88	26.4	40.34	66.2	3.13	24.8	54.70	63.7
Juni 9	59.11	25.8	40.75	64.2	3.32	25.2	54.85	60.9
19	59.38	25.4	41.27	62.4	3.55	25.8	55.05	58.2
29	59.70	25.2	41.88	61.1	3.82	26.5	55.28	55.5
Juli 9	60.05	25.4	42.57	60.1	4.11	27.4	55.55	52.9
19	60.42	25.8	43.31	59.5	4.42	28.4	55.83	50.6
29	60.81	26.4	44.09	59.3	4.75	29.5	56.13	48.5
Aug. 8	61.21	27.3	44.90	59.6	5.08	30.7	56.44	46.7
18	61.60	28.4	45.71	60.3	5.41	32.0	56.75	45.4
28	61.99	29.6	46.52	61.4	5.73	33.2	57.06	44.5
Sept. 7	62.36	31.0	47.30	62.9	6.04	34.4	57.36	44.0
17	62.72	32.6	48.05	64.6	6.34	35.6	57.64	44.0
27	63.06	34.3	48.76	66.8	6.62	36.7	57.90	44.5
Okt. 7	63.37	36.0	49.40	69.3	6.88	37.7	58.14	45.5
17	63.65	37.7	49.98	72.0	7.11	38.6	58.35	46.8
27	63.89	39.5	50.48	74.8	7.32	39.4	58.54	48.4
Nov. 6	64.10	41.2	50.89	77.8	7.50	40.1	58.69	50.3
16	64.27	43.0	51.19	80.9	7.65	40.8	58.80	52.4
26	64.40	44.7	51.39	84.0	7.76	41.3	58.88	54.5
Dez. 6	64.48	46.3	51.47	87.1	7.84	41.7	58.92	56.8
16	64.52	47.7	51.44	89.9	7.88	42.1	58.93	58.9
26	64.50	49.0	51.28	92.5	7.88	42.4	58.89	60.9
36	64.43	50.0	51.01	94.8	7.84	42.6	58.82	62.6
Mittl. Ort	60.43	30.2	44.13	70.2	4.35	27.5	55.93	65.1

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138)

139)

140)

1909	β Reticuli. 3 ^m .8.		γ Eridani. 4 ^m .I.		ζ Persei. 2 ^m .9.		γ Hydr. 3 ^m .I.	
	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	3 ^h 43 ^m	65° 5'	3 ^h 45 ^m	36° 28'	3 ^h 48 ^m	31° 36'	3 ^h 48 ^m	74° 30'
Jan. 0	5.45 ³⁷	52.3 ²⁰	63.42 ¹²	44.5 ¹⁸	24.45 ⁷	53.0 ⁵	42.48 ⁶⁴	82.1 ¹⁹
10	5.08 ⁴²	54.3 ¹⁴	63.30 ¹⁶	46.3 ¹⁵	24.38 ¹¹	53.5 ³	41.84 ⁷³	84.0 ¹⁴
20	4.66 ⁴⁷	55.7 ⁹	63.14 ²⁰	47.8 ¹⁰	24.27 ¹⁴	53.8 ²	41.11 ⁸¹	85.4 ⁹
30	4.19 ⁵⁰	56.6 ³	62.94 ²¹	48.8 ⁶	24.13 ¹⁷	54.0 ⁰	40.30 ⁸⁴	86.3 ²
Febr. 9	3.69 ⁵²	56.9 ²	62.73 ²³	49.4 ¹	23.96 ¹⁸	54.0 ²	39.46 ⁸⁶	86.5 ³
19	3.17 ⁵¹	56.7 ⁹	62.50 ²³	49.5 ³	23.78 ¹⁹	53.8 ⁴	38.60 ⁸⁶	86.2 ⁸
März I	2.66 ⁴⁹	55.8 ¹³	62.27 ²²	49.2 ⁸	23.59 ¹⁹	53.4 ⁶	37.74 ⁸³	85.4 ¹⁴
11	2.17 ⁴⁶	54.5 ¹⁹	62.05 ²¹	48.4 ¹³	23.40 ¹⁷	52.8 ⁷	36.91 ⁷⁸	84.0 ²⁰
21	1.71 ⁴²	52.6 ²³	61.84 ¹⁸	47.1 ¹⁶	23.23 ¹⁵	52.1 ⁷	36.13 ⁷¹	82.0 ²³
31	1.29 ³⁵	50.3 ²⁸	61.66 ¹⁵	45.5 ²¹	23.08 ¹¹	51.4 ⁸	35.42 ⁶²	79.7 ²⁸
April 10	0.94 ²⁸	47.5 ³¹	61.51 ¹¹	43.4 ²³	22.97 ⁶	50.6 ⁸	34.80 ⁵⁰	76.9 ³¹
20	0.66 ²⁰	44.4 ³³	61.40 ⁶	41.1 ²⁷	22.91 ²	49.8 ⁸	34.30 ³⁹	73.8 ³³
30	0.46 ¹²	41.1 ³⁵	61.34 ²	38.4 ²⁹	22.89 ⁴	49.0 ⁶	33.91 ²⁶	70.5 ³⁶
Mai 10	0.34 ²	37.6 ⁴¹	61.32 ⁵	35.5 ³³	22.93 ⁹	48.4 ⁵	33.65 ¹²	66.9 ³⁷
20	0.32 ⁸	33.5 ³⁷	61.37 ¹⁰	32.2 ³²	23.02 ¹⁶	47.9 ³	33.53 ³	63.2 ⁴⁰
30	0.40 ¹⁷	29.8 ³⁷	61.47 ¹⁶	29.0 ³³	23.18 ²⁰	47.6 ²	33.56 ¹⁸	59.2 ³⁷
Juni 9	0.57 ²⁶	26.1 ³⁵	61.63 ¹⁹	25.7 ³¹	23.38 ²⁴	47.4 ¹	33.74 ³⁰	55.5 ³⁵
19	0.83 ³³	22.6 ³³	61.82 ²⁴	22.6 ³¹	23.62 ²⁸	47.5 ³	34.04 ⁴⁴	52.0 ³²
29	1.16 ⁴¹	19.3 ³⁰	62.06 ²⁸	19.5 ²⁸	23.90 ³⁰	47.8 ⁵	34.48 ⁵⁶	48.8 ³⁰
Juli 9	1.57 ⁴⁷	16.3 ²⁶	62.34 ³⁰	16.7 ²⁶	24.20 ³³	48.3 ⁷	35.04 ⁶⁵	45.8 ²⁵
19	2.04 ⁵¹	13.7 ²¹	62.64 ³²	14.1 ²²	24.53 ³⁵	49.0 ⁹	35.69 ⁷⁴	43.3 ²¹
29	2.55 ⁵⁴	11.6 ¹⁶	62.96 ³³	11.9 ¹⁸	24.88 ³⁵	49.9 ¹⁰	36.43 ⁷⁹	41.2 ¹⁵
Aug. 8	3.09 ⁵⁷	10.0 ¹⁰	63.29 ³⁴	10.1 ¹³	25.23 ³⁵	50.9 ¹¹	37.22 ⁸⁴	39.7 ¹⁰
18	3.66 ⁵⁷	9.0 ⁴	63.63 ³⁴	8.8 ⁸	25.58 ³⁴	52.0 ¹²	38.06 ⁸⁴	38.7 ³
28	4.23 ⁵⁵	8.6 ³	63.97 ³³	8.0 ³	25.92 ³⁴	53.2 ¹³	38.90 ⁸³	38.4 ³
Sept. 7	4.78 ⁵²	8.9 ⁸	64.30 ³¹	7.7 ⁴	26.26 ³²	54.5 ¹²	39.73 ⁷⁹	38.7 ⁹
17	5.30 ⁴⁸	9.7 ¹⁵	64.61 ²⁹	8.1 ⁸	26.58 ³⁰	55.7 ¹³	40.52 ⁷³	39.6 ¹⁵
27	5.78 ⁴³	11.2 ²⁰	64.90 ²⁶	8.9 ¹³	26.88 ²⁸	57.0 ¹³	41.25 ⁶⁴	41.1 ²⁰
Okt. 7	6.21 ³⁵	13.2 ²⁵	65.16 ²³	10.2 ¹⁸	27.16 ²⁶	58.3 ¹²	41.89 ⁵³	43.1 ²⁶
17	6.56 ²⁸	15.7 ²⁸	65.39 ¹⁹	12.0 ²¹	27.42 ²³	59.5 ¹²	42.42 ⁴⁰	45.7 ²⁹
27	6.84 ¹⁹	18.5 ³¹	65.58 ¹⁶	14.1 ²⁵	27.65 ²⁰	60.7 ¹¹	42.82 ²⁶	48.6 ³¹
Nov. 6	7.03 ¹⁰	21.6 ³³	65.74 ¹¹	16.6 ²⁶	27.85 ¹⁶	61.8 ¹¹	43.08 ¹²	51.7 ³³
16	7.13 ⁰	24.9 ³³	65.85 ⁷	19.2 ²⁷	28.01 ¹³	62.9 ¹⁰	43.20 ⁴	55.0 ³³
26	7.13 ⁸	28.2 ³²	65.92 ³	21.9 ²⁷	28.14 ⁹	63.9 ¹⁰	43.16 ¹⁹	58.3 ³²
Dez. 6	7.05 ¹⁷	31.4 ²⁹	65.95 ²	24.6 ²⁶	28.23 ⁴	64.9 ⁸	42.97 ³⁴	61.5 ²⁹
16	6.88 ²⁶	34.3 ²⁶	65.93 ⁶	27.2 ²³	28.27 ⁰	65.7 ⁷	42.63 ⁴⁷	64.4 ²⁷
26	6.62 ³³	36.9 ²²	65.87 ¹¹	29.5 ²¹	28.27 ⁴	66.4 ⁶	42.16 ⁵⁹	67.1 ²²
36	6.29	39.1	65.76	31.6	28.23	67.0	41.57	69.3
Mitt. Ort	3.30	35.6	62.91	31.8	24.52	50.3	38.31	65.2
	141)		143)		144)		146)	

1909	9 H. Camelop. 5 ^m .5.		α Persei. 3 ^m .0.		ξ Persei. 4 ^m .0.		γ Eridani. 3 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	3 ^h 49 ^m	60° 50'	3 ^h 51 ^m	39° 44'	3 ^h 53 ^m	35° 31'	3 ^h 53 ^m	13° 45'
Jan. 0	22.52 ¹⁷	42.8 ¹⁸	44.58 ⁸	55.5 ⁹	3.39 ⁶	51.3 ⁷	47.11 ⁷	68.8 ¹⁴
10	22.35 ²⁴	44.6 ¹⁴	44.50 ¹²	56.4 ⁷	3.33 ¹²	52.0 ⁵	47.04 ¹⁰	70.2 ¹¹
20	22.11 ³⁰	46.0 ¹⁰	44.38 ¹⁶	57.1 ⁴	3.21 ¹⁵	52.5 ³	46.94 ¹³	71.3 ⁹
30	21.81 ³⁴	47.0 ⁶	44.22 ¹⁹	57.5 ²	3.06 ¹⁷	52.8 ¹	46.81 ¹⁵	72.2 ⁶
Febr. 9	21.47 ³⁷	47.6 ⁰	44.03 ²¹	57.7 ²	2.89 ²⁰	52.9 ²	46.66 ¹⁷	72.8 ⁵
19	21.10 ³⁸	47.6 ⁴	43.82 ²²	57.5 ⁴	2.69 ²⁰	52.7 ³	46.49 ¹⁷	73.1 ⁵
März 1	20.72 ³⁶	47.2 ⁸	43.60 ²¹	57.1 ⁶	2.49 ²⁰	52.4 ⁶	46.32 ¹⁷	73.1 ⁵
11	20.36 ³⁴	46.4 ¹²	43.39 ²⁰	56.5 ⁸	2.29 ¹⁸	51.8 ⁷	46.15 ¹⁶	72.8 ⁶
21	20.02 ²⁹	45.2 ¹⁶	43.19 ¹⁶	55.7 ¹⁰	2.11 ¹⁶	51.1 ⁹	45.99 ¹⁴	72.2 ⁸
31	19.73 ²²	43.6 ¹⁸	43.03 ¹³	54.7 ¹²	1.95 ¹²	50.2 ⁹	45.85 ¹¹	71.4 ¹²
April 10	19.51 ¹⁴	41.8 ²⁰	42.90 ⁸	53.5 ¹¹	1.83 ⁷	49.3 ¹⁰	45.74 ⁸	70.2 ¹⁴
20	19.37 ⁶	39.8 ²¹	42.82 ²	52.4 ¹²	1.76 ³	48.3 ¹⁰	45.66 ³	68.8 ¹⁶
30	19.31 ³	37.7 ²¹	42.80 ³	51.2 ¹¹	1.73 ³	47.3 ⁸	45.63 ¹	67.2 ¹⁹
Mai 10	19.34 ¹¹	35.6 ²⁰	42.83 ⁹	50.1 ⁹	1.77 ⁹	46.5 ⁸	45.64 ⁶	65.3 ²¹
20	19.45 ²²	33.6 ²¹	42.92 ¹⁷	49.2 ⁹	1.86 ¹⁶	45.7 ⁶	45.70 ¹²	63.2 ²¹
30	19.67 ²⁹	31.5 ¹⁶	43.09 ²¹	48.3 ⁶	2.02 ²¹	45.1 ³	45.82 ¹⁴	60.8 ²¹
Juni 9	19.96 ³⁷	29.9 ¹⁴	43.30 ²⁶	47.7 ³	2.22 ²⁴	44.8 ²	45.96 ¹⁹	58.4 ²⁴
19	20.33 ⁴³	28.5 ¹¹	43.56 ³⁰	47.4 ²	2.46 ²⁸	44.6 ¹	46.15 ²³	56.0 ²⁴
29	20.76 ⁴⁷	27.4 ⁷	43.86 ³³	47.2 ²	2.74 ³²	44.7 ³	46.38 ²⁵	53.6 ²⁴
Juli 9	21.23 ⁵²	26.7 ³	44.19 ³⁶	47.4 ⁴	3.06 ³⁴	45.0 ⁶	46.63 ²⁸	51.3 ²⁵
19	21.75 ⁵⁵	26.4 ⁰	44.55 ³⁷	47.8 ⁶	3.40 ³⁵	45.6 ⁷	46.91 ²⁹	49.1 ²²
29	22.30 ⁵⁶	26.4 ⁴	44.92 ³⁸	48.4 ⁷	3.75 ³⁷	46.3 ⁸	47.20 ²⁹	47.2 ¹⁹
Aug. 8	22.86 ⁵⁷	26.8 ⁷	45.30 ³⁸	49.1 ¹⁰	4.12 ³⁶	47.1 ¹¹	47.49 ³⁰	45.5 ¹⁷
18	23.43 ⁵⁷	27.5 ¹⁰	45.68 ³⁸	50.1 ¹¹	4.48 ³⁶	48.2 ¹¹	47.79 ³⁰	44.1 ¹⁴
28	24.00 ⁵⁵	28.5 ¹³	46.06 ³⁶	51.2 ¹³	4.84 ³⁵	49.3 ¹²	48.09 ²⁹	44.1 ¹¹
Sept. 7	24.55 ⁵²	29.8 ¹⁷	46.42 ³⁶	52.5 ¹⁴	5.19 ³⁴	50.5 ¹³	48.38 ²⁸	43.0 ⁶
17	25.07 ⁴⁹	31.5 ¹⁹	46.78 ³³	53.9 ¹⁴	5.53 ³¹	51.8 ¹⁴	48.66 ²⁶	42.4 ⁵
27	25.56 ⁴⁷	33.4 ²¹	47.11 ³¹	55.3 ¹⁶	5.84 ³⁰	53.2 ¹³	48.92 ²⁴	42.1 ⁶
Okt. 7	26.03 ⁴²	35.5 ²³	47.42 ²⁹	56.9 ¹⁵	6.14 ²⁸	54.5 ¹⁴	49.16 ²²	42.2 ¹
17	26.45 ³⁷	37.8 ²⁵	47.71 ²⁵	58.4 ¹⁶	6.42 ²⁴	55.9 ¹³	49.38 ¹⁹	42.8 ⁸
27	26.82 ³¹	40.3 ²⁶	47.96 ²²	60.0 ¹⁵	6.66 ²¹	57.2 ¹⁴	49.57 ¹⁶	43.6 ¹⁵
Nov. 6	27.13 ²⁴	42.9 ²⁶	48.18 ¹⁹	61.5 ¹⁶	6.87 ¹⁸	58.6 ¹³	49.73 ¹³	44.9 ¹⁴
16	27.37 ¹⁸	45.5 ²⁷	48.37 ¹⁴	63.1 ¹⁵	7.05 ¹⁴	59.9 ¹²	49.86 ¹⁰	46.3 ¹⁶
26	27.55 ¹¹	48.2 ²⁵	48.51 ¹⁰	64.6 ¹⁴	7.19 ⁹	61.1 ¹¹	49.96 ⁶	47.9 ¹⁷
Dez. 6	27.66 ³	50.7 ²⁵	48.61 ⁵	66.0 ¹³	7.28 ⁵	62.2 ¹¹	49.96 ⁶	49.6 ¹⁸
16	27.69 ⁶	53.2 ²²	48.66 ⁰	67.3 ¹²	7.33 ¹	63.3 ¹⁰	50.02 ³	51.4 ¹⁷
26	27.63 ¹³	55.4 ¹⁹	48.66 ⁵	68.5 ⁹	7.34 ⁴	64.3 ⁷	50.04 ⁵	53.1 ¹⁶
36	27.50	57.3	48.61	69.4	7.30	65.0	49.99	54.7 ¹⁵
Mittl. Ort	22.15	34.9	44.60	51.3	3.43	47.9	46.98	61.1

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1909	λ Tauri. (3 ^m .5).		ν Tauri. 3 ^m .9.		ε Persei. 4 ^m .0.		ο' Eridani. 4 ^m .I.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	3 ^h 55 ^m	12° 13'	3 ^h 58 ^m	5° 44'	4 ^h 2 ^m	47° 28'	4 ^h 7 ^m	7° 4'
Jan. 0	38.16	59.7	18.84	11.1	3.15	18.3	25.48	33.6
10	38.11 ⁵	59.4	18.79 ⁵	10.5 ⁶	3.06 ⁹	19.6 ¹³	25.42 ⁶	34.7 ¹⁰
20	38.02 ⁹	59.0	18.70 ¹¹	9.9 ⁵	2.93 ¹⁹	20.6 ⁷	25.34 ¹²	35.7 ⁸
30	37.90 ¹²	58.7	18.59 ¹⁴	9.4 ⁴	2.74 ²²	21.3 ⁴	25.22 ¹⁴	36.5 ⁶
Febr. 9	37.76 ¹⁴	58.4	18.45 ¹⁵	9.0 ³	2.52 ²⁵	21.7 ⁰	25.08 ¹⁶	37.1 ⁴
19	37.61 ¹⁷	58.1	18.30 ¹⁶	8.7 ²	2.27 ²⁵	21.7 ²	24.92 ¹⁷	37.5 ¹
März 1	37.44 ¹⁶	57.8	18.14 ¹⁷	8.5 ¹	2.02 ²⁵	21.5 ⁶	24.75 ¹⁷	37.6 ¹
11	37.28 ¹⁵	57.6	17.97 ¹⁵	8.4 ⁰	1.77 ²⁴	20.9 ⁹	24.58 ¹⁶	37.5 ³
21	37.13 ¹³	57.5	17.82 ¹³	8.4 ²	1.53 ²⁰	20.0 ¹²	24.42 ¹⁴	37.2 ⁶
31	37.00 ¹⁰	57.4	17.69 ¹⁰	8.6 ³	1.33 ¹⁶	18.8 ¹³	24.28 ¹¹	36.6 ⁸
April 10	36.90 ⁷	57.4	17.59 ⁶	8.9 ⁵	1.17 ¹¹	17.5 ¹⁵	24.17 ⁸	35.8 ¹¹
20	36.83 ²	57.6	17.53 ³	9.4 ⁶	1.06 ⁵	16.0 ¹⁵	24.09 ⁴	34.7 ¹³
30	36.81 ²	57.9	17.50 ²	10.0 ⁹	1.01 ²	14.5 ¹⁴	24.05 ⁰	33.4 ¹⁵
Mai 10	36.84 ³	58.4	17.52 ⁷	10.9 ¹⁰	1.03 ²	13.1 ¹⁴	24.05 ⁰	31.9 ¹⁷
20	36.92 ¹³	59.0	17.59 ¹²	11.9 ¹³	1.12 ¹⁷	11.7 ¹⁴	24.10 ⁵	30.2 ²⁰
30	37.05 ¹⁶	59.9	17.71 ¹⁶	13.2 ¹³	1.29 ²¹	10.3 ¹¹	24.21 ¹⁴	28.2 ²⁰
Juni 9	37.21 ²¹	60.9	17.87 ²⁰	14.5 ¹⁵	1.50 ²⁷	9.2 ⁸	24.35 ¹⁸	26.2 ²¹
19	37.42 ²⁴	62.0	18.07 ²³	16.0 ¹⁵	1.77 ³²	8.4 ⁶	24.53 ²¹	24.1 ²¹
29	37.66 ²⁶	63.2	18.30 ²⁶	17.5 ¹⁶	2.09 ³⁶	7.8 ²	24.74 ²⁵	22.0 ²¹
Juli 9	37.92 ²⁹	64.6	18.56 ²⁸	19.1 ¹⁵	2.45 ³⁹	7.6 ¹	24.99 ²⁶	19.9 ²⁰
19	38.21 ³⁰	65.9	18.84 ²⁹	20.6 ¹⁶	2.84 ⁴¹	7.5 ²	25.25 ²⁹	17.9 ¹⁸
29	38.51 ³¹	67.3	19.13 ³⁰	22.2 ¹⁴	3.25 ⁴²	7.7 ⁵	25.54 ²⁹	16.1 ¹⁷
Aug. 8	38.82 ³¹	68.6	19.43 ³⁰	23.6 ¹³	3.67 ⁴³	8.2 ⁸	25.83 ³⁰	14.4 ¹⁴
18	39.13 ³⁰	69.9	19.73 ³⁰	24.9 ¹²	4.10 ⁴²	9.0 ¹⁰	26.13 ²⁹	13.0 ¹¹
28	39.43 ³⁰	71.0	20.03 ²⁹	26.1 ⁹	4.52 ⁴²	10.0 ¹²	26.42 ²⁹	11.9 ⁷
Sept. 7	39.73 ²⁸	72.1	20.32 ²⁸	27.0 ⁷	4.94 ⁴⁰	11.2 ¹³	26.71 ²⁸	11.2 ⁴
17	40.01 ²⁷	72.9	20.60 ²⁷	27.7 ⁵	5.34 ³⁸	12.5 ¹⁵	26.99 ²⁷	10.8 ¹
27	40.28 ²⁶	73.5	20.87 ²⁴	28.2 ²	5.72 ³⁶	14.0 ¹⁷	27.26 ²⁷	10.7 ²
Okt. 7	40.54 ²³	74.0	21.11 ²³	28.4 ⁰	6.08 ³⁴	15.7 ¹⁸	27.51 ²³	10.9 ⁶
17	40.77 ²⁰	74.3	21.34 ²⁰	28.4 ²	6.42 ²⁹	17.5 ¹⁸	27.74 ²⁰	11.5 ⁹
27	40.97 ¹⁸	74.5	21.54 ¹⁸	28.2 ⁴	6.71 ²⁶	19.3 ¹⁹	27.94 ¹⁷	12.4 ¹¹
Nov. 6	41.15 ¹⁵	74.5	21.72 ¹⁵	27.8 ⁶	6.97 ²²	21.2 ¹⁹	28.11 ¹⁵	13.5 ¹³
16	41.30 ¹²	74.3	21.87 ¹¹	27.2 ⁶	7.19 ¹⁷	23.1 ¹⁹	28.26 ¹²	14.8 ¹⁴
26	41.42 ⁸	74.1	21.98 ⁹	26.6 ⁷	7.36 ¹²	25.0 ¹⁸	28.38 ⁸	16.2 ¹⁴
Dez. 6	41.50 ⁵	73.8	22.07 ⁵	25.9 ⁷	7.48 ⁶	26.8 ¹⁸	28.46 ⁵	17.6 ¹⁵
16	41.55 ²	73.5	22.12 ¹	25.2 ⁷	7.54 ⁰	28.6 ¹⁶	28.51 ¹	19.1 ¹⁴
26	41.57 ³	73.2	22.13 ³	24.5 ⁶	7.54 ⁵	30.2 ¹⁴	28.52 ³	20.5 ¹²
36	41.54	72.8	22.10	23.9	7.49	31.6	28.49	21.7
Mitt. Ort	38.20	61.5	18.85	14.3	3.03	12.8	25.36	27.9

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1909	α Horologii. 3 ^m .7.		α Reticuli. 3 ^m .2.		υ ⁴ Eridani. 3 ^m .3.		δ Tauri. 3 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +
	4 ^h 10 ^m	42° 30'	4 ^h 13 ^m	62° 41'	4 ^h 14 ^m	34° 0'	4 ^h 17 ^m	17° 19'
Jan. 0	59.92 ¹³	78.4 ²¹	17.15 ²⁹	79.1 ²³	27.56 ¹⁰	83.0 ²⁰	41.12 ³	46.3 ¹
10	59.79 ¹⁸	80.5 ¹⁸	16.86 ³⁶	81.4 ¹⁹	27.46 ¹³	85.0 ¹⁷	41.09 ⁷	46.2 ¹
20	59.61 ²¹	82.3 ¹³	16.50 ⁴⁰	83.3 ¹³	27.33 ¹⁷	86.7 ¹³	41.02 ¹¹	46.1 ²
30	59.40 ²⁴	83.6 ⁹	16.10 ⁴⁵	84.6 ⁸	27.16 ²⁰	88.0 ⁹	40.91 ¹⁴	45.9 ¹
Febr. 9	59.16 ²⁶	84.5 ³	15.65 ⁴⁷	85.4 ²	26.96 ²²	88.9 ⁴	40.77 ¹⁶	45.8 ²
19	58.90 ²⁶	84.8 ¹	15.18 ⁴⁹	85.6 ³	26.74 ²³	89.3 ⁰	40.61 ¹⁷	45.6 ³
März 1	58.64 ²⁷	84.7 ⁷	14.69 ⁴⁷	85.3 ⁹	26.51 ²³	89.3 ⁵	40.44 ¹⁷	45.3 ³
11	58.37 ²⁵	84.0 ¹¹	14.22 ⁴⁶	84.4 ¹⁴	26.28 ²¹	88.8 ¹⁰	40.27 ¹⁷	45.1 ²
21	58.12 ²³	82.9 ¹⁶	13.76 ⁴¹	83.0 ¹⁹	26.07 ²⁰	87.8 ¹³	40.10 ¹⁴	44.9 ²
31	57.89 ²⁰	81.3 ²⁰	13.35 ³⁷	81.1 ²⁴	25.87 ¹⁷	86.5 ¹⁷	39.96 ¹²	44.7 ¹
April 10	57.69 ¹⁵	79.3 ²³	12.98 ³¹	78.7 ²⁸	25.70 ¹³	84.8 ²¹	39.84 ⁸	44.6 ¹
20	57.54 ¹¹	77.0 ²⁷	12.67 ²⁴	75.9 ³⁰	25.57 ⁹	82.7 ²⁴	39.76 ⁴	44.5 ¹
30	57.43 ⁶	74.3 ²⁹	12.43 ¹⁶	72.9 ³⁴	25.48 ⁴	80.3 ²⁷	39.72 ¹	44.5 ¹
Mai 10	57.37 ¹	71.4 ³²	12.27 ⁸	69.5 ³⁵	25.44 ²	77.6 ²⁹	39.73 ⁶	44.6 ⁵
20	57.38 ²⁶	68.2 ³⁶	12.19 ¹	66.0 ⁴⁰	25.46 ⁷	74.7 ³³	39.79 ¹¹	44.9 ⁵
30	57.44 ¹²	64.6 ³⁴	12.20 ¹¹	62.0 ³⁷	25.53 ¹²	71.4 ³¹	39.90 ¹⁶	45.4 ⁸
Juni 9	57.56 ¹⁷	61.2 ³³	12.31 ¹⁸	58.3 ³⁶	25.65 ¹⁷	68.3 ³²	40.06 ¹⁹	46.0 ⁸
19	57.73 ²²	57.9 ³²	12.49 ²⁶	54.7 ³⁴	25.82 ²⁰	65.1 ³⁰	40.25 ²³	46.8 ⁹
29	57.95 ²⁶	54.7 ³¹	12.75 ³³	51.3 ³²	26.02 ²⁵	62.1 ²⁹	40.48 ²⁶	47.7 ¹
Juli 9	58.21 ²⁹	51.6 ²⁷	13.08 ³⁹	48.1 ²⁸	26.27 ²⁸	59.2 ²⁶	40.74 ²⁸	48.7 ¹
19	58.50 ³²	48.9 ²⁴	13.47 ⁴⁴	45.3 ²⁴	26.55 ³⁰	56.6 ²⁴	41.02 ³⁰	49.7 ¹¹
29	58.82 ³⁵	46.5 ¹⁹	13.91 ⁴⁹	42.9 ²⁰	26.85 ³¹	54.2 ¹⁹	41.32 ³⁰	50.8 ¹¹
Aug. 8	59.17 ³⁵	44.6 ¹⁵	14.40 ⁵¹	40.9 ¹⁴	27.16 ³³	52.3 ¹⁵	41.62 ³²	51.9 ¹¹
18	59.52 ³⁶	43.1 ⁹	14.91 ⁵²	39.5 ⁷	27.49 ³³	50.8 ¹⁰	41.94 ³¹	53.0 ¹¹
28	59.88 ³⁵	42.2 ⁴	15.43 ⁵²	38.8 ²	27.82 ³²	49.8 ⁵	42.25 ³¹	54.1 ⁶
Sept. 7	60.23 ³⁵	41.8 ²	15.95 ⁵⁰	38.6 ⁵	28.14 ³²	49.3 ⁰	42.56 ³⁰	55.0 ⁵
17	60.58 ³²	42.0 ⁸	16.45 ⁴⁸	39.1 ¹¹	28.46 ³⁰	49.3 ⁶	42.86 ²⁹	55.8 ⁷
27	60.90 ³⁰	42.8 ¹⁴	16.93 ⁴³	40.2 ¹⁷	28.76 ²⁷	49.9 ¹¹	43.15 ²⁷	56.5 ⁶
Okt. 7	61.20 ²⁶	44.2 ¹⁸	17.36 ³⁸	41.9 ²²	29.03 ²⁵	51.0 ¹⁶	43.42 ²⁵	57.1 ⁴
17	61.46 ²³	46.0 ²³	17.74 ³¹	44.1 ²⁷	29.28 ²²	52.6 ²⁰	43.67 ²⁴	57.5 ³
27	61.69 ¹⁹	48.3 ²⁶	18.05 ²⁴	46.8 ³⁰	29.50 ¹⁹	54.6 ²³	43.91 ²⁰	57.8 ²
Nov. 6	61.88 ¹⁴	50.9 ²⁸	18.29 ¹⁶	49.8 ³²	29.69 ¹⁵	56.9 ²⁶	44.11 ¹⁸	58.0 ¹
16	62.02 ¹⁰	53.7 ³⁰	18.45 ⁷	53.0 ³⁴	29.84 ¹⁰	59.5 ²⁶	44.29 ¹⁵	58.1 ¹
26	62.12 ⁴	56.7 ³⁰	18.52 ¹	56.4 ³³	29.94 ⁷	62.1 ²⁸	44.44 ¹¹	58.2 ¹
Dez. 6	62.16 ¹	59.7 ²⁸	18.51 ⁹	59.7 ³¹	30.01 ¹	64.9 ²⁶	44.55 ⁸	58.1 ¹
16	62.15 ⁵	62.5 ²⁷	18.42 ¹⁸	62.8 ²⁹	30.02 ³	67.5 ²⁵	44.63 ³	58.1 ¹
26	62.10 ¹¹	65.2 ²⁴	18.24 ²⁶	65.7 ²⁶	29.99 ⁷	70.0 ²²	44.66 ¹	58.0 ¹
36	61.99	67.6	17.98	68.3	29.92	72.2	44.65	57.9
MITT. ORT	59.08	66.4	14.98	65.2	26.97	72.6	41.10	46.8

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SCHEINBARE STERNÖRTER.

1909	ε Tauri. 3 ^m .5.		α Tauri. 1 ^m .		ν Eridani. 3 ^m .8.		α Doradus. 3 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -
	4 ^h 23 ^m	18° 58'	4 ^h 30 ^m	16° 19'	4 ^h 31 ^m	3° 32'	4 ^h 31 ^m	55° 13'
Jan. 0	18.11	45.1	41.90	36.4	46.44	21.1	63.44	69.3
10	18.08	45.1	41.88	36.2	46.41	22.2	63.25	71.8
20	18.01	45.0	41.82	36.1	46.34	23.2	63.00	73.9
30	17.91	44.9	41.72	35.9	46.24	23.9	62.71	75.5
Febr. 9	17.77	44.8	41.59	35.7	46.11	24.5	62.38	76.6
19	17.61	44.6	41.43	35.5	45.95	25.0	62.02	77.2
März 1	17.44	44.4	41.26	35.3	45.78	25.2	61.64	77.2
11	17.26	44.2	41.09	35.2	45.61	25.2	61.26	76.6
21	17.10	44.0	40.92	35.0	45.44	25.0	60.90	75.5
31	16.95	43.7	40.77	34.9	45.29	24.6	60.56	74.0
April 10	16.82	43.5	40.64	34.8	45.17	23.9	60.25	71.9
20	16.74	43.4	40.55	34.7	45.07	23.1	60.00	69.5
30	16.70	43.3	40.51	34.8	45.02	22.0	59.80	66.7
Mai 10	16.70	43.4	40.50	35.0	45.00	20.8	59.66	63.6
20	16.75	43.6	40.54	35.4	45.03	19.4	59.59	60.3
30	16.86	43.9	40.64	35.8	45.11	17.8	59.59	56.8
Juni 9	17.01	44.4	40.78	36.5	45.24	15.8	59.67	52.8
19	17.20	45.1	40.96	37.2	45.40	14.0	59.81	49.3
29	17.43	45.8	41.18	38.1	45.60	12.1	60.01	45.8
Juli 9	17.68	46.7	41.43	39.1	45.83	10.2	60.28	42.6
19	17.96	47.7	41.70	40.1	46.08	8.4	60.59	39.6
29	18.27	48.7	41.99	41.2	46.35	6.7	60.95	37.0
Aug. 8	18.58	49.7	42.30	42.2	46.63	5.1	61.35	34.9
18	18.89	50.8	42.61	43.3	46.93	3.8	61.77	33.3
28	19.21	51.8	42.92	44.2	47.22	2.7	62.20	32.2
Sept. 7	19.52	52.7	43.23	45.1	47.51	1.9	62.63	31.8
17	19.83	53.5	43.53	45.8	47.80	1.4	63.05	32.0
27	20.12	54.2	43.82	46.4	48.07	1.3	63.46	32.8
Okt. 7	20.40	54.8	44.10	46.9	48.34	1.4	63.83	34.2
17	20.66	55.2	44.36	47.2	48.58	1.9	64.18	36.2
27	20.90	55.6	44.60	47.4	48.80	2.6	64.48	38.7
Nov. 6	21.11	55.8	44.82	47.4	49.00	3.6	64.72	41.5
16	21.30	56.0	45.01	47.4	49.18	4.8	64.90	44.6
26	21.45	56.1	45.17	47.3	49.32	6.0	65.02	47.8
Dez. 6	21.57	56.2	45.29	47.2	49.43	7.3	65.06	51.1
16	21.65	56.2	45.38	47.1	49.50	8.7	65.04	54.3
26	21.69	56.2	45.42	46.9	49.53	9.9	64.95	57.3
36	21.68	56.2	45.42	46.7	49.52	11.1	64.80	60.1
Mittl. Ort	18.07	45.2	41.84	36.9	46.27	16.9	61.81	57.7

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1909	53 Eridani. 3 ^m .9.		Gr. 848. 6 ^m .2.		τ Tauri. 4 ^m .2.		4 Camelop. 5 ^m .5.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	4 ^h 33 ^m	14° 28'	4 ^h 36 ^m	75° 46'	4 ^h 36 ^m	22° 46'	4 ^h 40 ^m	56° 35'
Jan. 0	61.02	59.4	36.33	44.3	46.97	59.3	25.59	52.5
10	60.97	61.0	36.06	44.3	47.0	59.5	25.52	54.4
20	60.89	62.4	35.62	44.3	46.89	59.6	25.38	56.1
30	60.78	63.5	35.06	51.2	46.79	59.7	25.17	57.4
Febr. 9	60.63	64.3	34.39	52.6	46.66	59.7	24.92	58.4
19	60.47	64.8	33.62	53.5	46.50	59.6	24.62	59.0
März 1	60.29	65.0	32.82	53.9	46.32	59.5	24.30	59.2
11	60.11	64.9	32.01	53.7	46.14	59.3	23.96	58.9
21	59.93	64.5	31.24	52.9	45.96	59.0	23.64	58.3
31	59.76	63.8	30.53	51.6	45.80	58.8	23.35	57.4
April 10	59.62	62.8	29.92	49.9	45.67	58.5	23.11	56.1
20	59.52	61.6	29.44	47.9	45.57	58.2	22.92	54.5
30	59.45	60.0	29.10	45.5	45.52	58.0	22.80	52.8
Mai 10	59.42	58.2	28.92	43.0	45.51	57.8	22.75	51.0
20	59.44	56.2	28.91	40.4	45.55	57.8	22.77	49.1
30	59.50	54.1	29.07	37.8	45.64	57.8	22.88	47.3
Juni 9	59.63	51.7	29.42	35.1	45.78	58.1	23.09	45.5
19	59.78	49.3	29.90	32.7	45.97	58.4	23.35	43.9
29	59.97	46.9	30.53	30.7	46.19	58.9	23.67	42.6
Juli 9	60.19	44.6	31.28	28.9	46.44	59.5	24.05	41.6
19	60.44	42.4	32.13	27.5	46.72	60.3	24.48	40.8
29	60.71	40.4	33.07	26.5	47.02	61.1	24.94	40.3
Aug. 8	60.99	38.6	34.08	25.8	47.33	61.9	25.43	40.1
18	61.28	37.1	35.13	25.6	47.66	62.8	25.94	40.2
28	61.58	36.0	36.20	25.7	47.98	63.7	26.45	40.6
Sept. 7	61.87	35.2	37.28	26.3	48.30	64.5	26.96	41.2
17	62.16	34.9	38.34	27.3	48.62	65.3	27.47	42.2
27	62.44	35.0	39.38	28.7	48.92	65.9	27.96	43.4
Okt. 7	62.70	35.5	40.37	30.5	49.22	66.5	28.43	44.8
17	62.95	36.3	41.29	32.6	49.49	67.1	28.88	46.4
27	63.17	37.6	42.12	35.0	49.75	67.5	29.29	48.2
Nov. 6	63.37	39.1	42.86	37.7	49.98	67.9	29.66	50.2
16	63.54	40.8	43.47	40.6	50.19	68.3	29.98	52.3
26	63.68	42.6	43.93	43.6	50.36	68.6	30.24	54.5
Dez. 6	63.78	44.6	44.25	46.7	50.49	68.9	30.44	56.8
16	63.85	46.5	44.41	49.8	50.59	69.1	30.57	59.0
26	63.87	48.3	44.39	52.8	50.64	69.3	30.62	61.1
36	63.85	50.0	44.21	55.6	50.65	69.4	30.60	63.1
Mittl. Ort	60.72	53.4	34.22	36.9	46.90	58.7	25.09	47.0

172)

173)

174)

175)

1909	9 Camelop. 4 ^m .3.		π ^s Orionis. 3 ^m .7.		ι Aurigae. 2 ^m .7.		10 Camelop. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	4 ^h 44 ^m	66° 11'	4 ^h 49 ^m	2° 17'	4 ^h 51 ^m	33° 1'	4 ^h 55 ^m	60° 18'
Jan. 0	60.74	27.3	30.79	29.1	4.09	23.8	19.80	42.0
10	60.62	29.7	30.77	28.2	4.08	24.5	19.75	44.1
20	60.41	31.7	30.72	27.5	4.02	25.2	19.61	46.0
30	60.11	33.4	30.63	26.8	3.92	25.7	19.39	47.6
Febr. 9	59.74	34.8	30.51	26.3	3.77	26.1	19.11	48.9
19	59.32	35.6	30.36	25.9	3.60	26.3	18.79	49.7
März 1	58.86	35.9	30.20	25.7	3.40	26.4	18.43	50.1
11	58.39	35.8	30.02	25.6	3.20	26.2	18.05	50.0
21	57.93	35.1	29.86	25.7	3.00	25.9	17.69	49.5
31	57.51	34.0	29.70	25.9	2.82	25.5	17.35	48.7
April 10	57.15	32.6	29.57	26.3	2.66	24.9	17.05	47.4
20	56.87	30.8	29.46	26.9	2.54	24.3	16.82	45.9
30	56.67	28.8	29.40	27.7	2.46	23.6	16.65	44.1
Mai 10	56.57	26.7	29.37	28.6	2.44	22.9	16.57	42.2
20	56.57	24.4	29.39	29.6	2.46	22.3	16.57	40.2
30	56.68	22.2	29.45	30.9	2.54	21.8	16.65	38.3
Juni 9	56.92	19.8	29.57	32.4	2.69	21.2	16.84	36.2
19	57.24	17.8	29.72	33.8	2.87	20.9	17.10	34.4
29	57.64	16.1	29.91	35.4	3.10	20.8	17.43	32.8
Juli 9	58.12	14.6	30.13	36.9	3.36	20.8	17.82	31.5
19	58.66	13.4	30.37	38.5	3.66	21.0	18.27	30.4
29	59.25	12.5	30.63	40.0	3.97	21.3	18.76	29.6
Aug. 8	59.89	12.0	30.91	41.4	4.31	21.7	19.29	29.1
18	60.55	11.9	31.20	42.6	4.66	22.2	19.83	28.9
28	61.23	12.0	31.50	43.6	5.01	22.8	20.39	29.1
Sept. 7	61.91	12.5	31.80	44.4	5.36	23.5	20.96	29.5
17	62.59	13.4	32.09	44.9	5.71	24.2	21.52	30.2
27	63.25	14.6	32.37	45.2	6.05	24.9	22.08	31.2
Okt. 7	63.88	16.1	32.64	45.2	6.38	25.7	22.61	32.5
17	64.47	18.0	32.90	44.9	6.70	26.5	23.12	34.1
27	65.02	20.0	33.14	44.4	6.99	27.3	23.59	35.8
Nov. 6	65.51	22.3	33.36	43.7	7.26	28.2	24.02	37.8
16	65.93	24.8	33.55	42.8	7.50	29.0	24.39	40.0
26	66.27	27.5	33.72	41.8	7.70	29.8	24.70	42.3
Dez. 6	66.53	30.2	33.85	40.7	7.86	30.7	24.95	44.7
16	66.68	32.8	33.94	39.7	7.98	31.5	25.11	47.0
26	66.73	35.5	33.99	38.7	8.06	32.4	25.19	49.4
36	66.67	37.9	34.01	37.8	8.08	33.2	25.18	51.6
Mittl. Ort	59.74	21.0	30.61	31.8	3.94	21.7	19.10	36.6

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180)

181)

182)

1909	ε Aurigae. (3 ^m .2).		ι Tauri. 4 ^m .8.		η Aurigae. 3 ^m .3.		ε Leporis. 3 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	4 ^h 55 ^m	43° 41'	4 ^h 57 ^m	21° 27'	5 ^h 0 ^m	41° 6'	5 ^h 1 ^m	22° 29'
Jan. 0	26.44	25.2	39.45	38.6	8.11	46.7	37.02	39.9
10	26.43	26.5	39.45	38.7	8.11	47.9	36.99	41.9
20	26.36	27.7	39.40	38.8	8.05	49.0	36.91	43.7
30	26.23	28.7	39.31	38.9	7.93	49.8	36.80	45.2
Febr. 9	26.06	29.4	39.19	38.9	7.77	50.5	36.65	46.3
19	25.85	29.9	39.04	38.9	7.58	51.0	36.48	47.1
März 1	25.62	30.1	38.87	38.9	7.36	51.2	36.28	47.5
11	25.38	30.0	38.69	38.8	7.13	51.1	36.08	47.5
21	25.14	29.6	38.51	38.6	6.90	50.8	35.88	47.1
31	24.92	29.0	38.34	38.5	6.69	50.2	35.69	46.4
April 10	24.74	28.2	38.20	38.3	6.51	49.5	35.52	45.4
20	24.59	27.2	38.09	38.1	6.37	48.6	35.39	44.0
30	24.49	26.0	38.02	38.0	6.27	47.6	35.28	42.3
Mai 10	24.45	24.8	37.99	37.9	6.23	46.5	35.22	40.3
20	24.47	23.6	38.01	37.9	6.24	45.5	35.20	38.1
30	24.55	22.4	38.07	38.0	6.31	44.5	35.23	35.7
Juni 9	24.70	21.3	38.20	38.2	6.46	43.5	35.32	32.8
19	24.90	20.4	38.36	38.6	6.65	42.7	35.44	30.1
29	25.15	19.7	38.56	39.1	6.89	42.0	35.60	27.5
Juli 9	25.44	19.1	38.80	39.6	7.17	41.5	35.79	25.0
19	25.77	18.7	39.06	40.3	7.48	41.3	36.02	22.5
29	26.13	18.6	39.35	41.0	7.82	41.2	36.28	20.2
Aug. 8	26.51	18.6	39.65	41.8	8.18	41.2	36.55	18.2
18	26.90	18.8	39.96	42.5	8.56	41.4	36.84	16.6
28	27.30	19.2	40.28	43.2	8.94	41.8	37.14	15.3
Sept. 7	27.70	19.7	40.60	43.9	9.33	42.3	37.44	14.5
17	28.10	20.4	40.92	44.5	9.72	43.0	37.74	14.2
27	28.50	21.3	41.23	45.0	10.10	43.7	38.03	14.3
Okt. 7	28.88	22.3	41.53	45.5	10.47	44.6	38.32	14.9
17	29.24	23.4	41.82	45.8	10.82	45.6	38.59	16.0
27	29.58	24.6	42.09	46.1	11.16	46.6	38.83	17.5
Nov. 6	29.89	25.9	42.34	46.3	11.46	47.8	39.06	19.3
16	30.16	27.2	42.56	46.5	11.73	49.0	39.25	21.3
26	30.40	28.7	42.75	46.6	11.96	50.2	39.41	23.6
Dez. 6	30.59	30.1	42.91	46.7	12.15	51.5	39.53	26.0
16	30.73	31.6	43.02	46.8	12.29	52.8	39.62	28.4
26	30.81	33.1	43.10	46.9	12.38	54.2	39.66	30.7
36	30.83	34.5	43.13	47.0	12.41	55.4	39.65	32.9
Mid. Ori	26.18	21.7	39.31	38.2	7.87	43.6	36.52	34.1
	183		184		185		186	

1909	β Eridani. 2 ^m .7.		μ Aurigae. 5 ^m .I.		19 H. Camelop. 5 ^m .I.		α Aurigae. 1 ^m .	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	5 ^h 3 ^m	5° 11'	5 ^h 7 ^m	38° 22'	5 ^h 7 ^m	79° 7'	5 ^h 9 ^m	45° 54'
Jau. 0	22.81	76.3	12.19	41.1	35.78	48.3	58.22	25.8
10	22.80	77.6	12.20	42.2	35.54	51.3	58.22	27.2
20	22.75	78.7	12.15	43.1	35.09	53.9	58.16	28.6
30	22.66	79.7	12.05	44.0	34.43	56.2	58.04	29.7
Febr. 9	22.54	80.4	11.90	44.6	33.61	58.1	57.87	30.6
19	22.39	80.9	11.72	45.1	32.67	59.4	57.67	31.2
März 1	22.22	81.2	11.52	45.3	31.64	60.2	57.43	31.6
11	22.04	81.3	11.30	45.3	30.57	60.5	57.18	31.6
21	21.87	81.2	11.07	45.0	29.52	60.1	56.93	31.4
31	21.71	80.8	10.87	44.6	28.52	59.2	56.69	30.8
April 10	21.56	80.2	10.69	44.0	27.62	57.8	56.48	30.0
20	21.45	79.4	10.55	43.2	26.87	56.0	56.32	29.0
30	21.37	78.3	10.45	42.3	26.29	53.8	56.20	27.9
Mai 10	21.32	77.1	10.41	41.4	25.89	51.4	56.14	26.6
20	21.32	75.7	10.41	40.5	25.71	48.7	56.14	25.3
30	21.37	74.1	10.48	39.7	25.74	46.0	56.20	24.0
Juni 9	21.46	72.2	10.61	38.8	26.02	43.1	56.32	22.8
19	21.60	70.3	10.79	38.1	26.49	40.5	56.53	21.6
29	21.77	68.5	11.02	37.6	27.16	38.0	56.77	20.6
Juli 9	21.97	66.6	11.27	37.2	27.99	35.9	57.05	19.8
19	22.20	64.7	11.57	37.0	28.97	34.0	57.38	19.2
29	22.45	63.0	11.90	36.9	30.09	32.5	57.74	18.8
Aug. 8	22.72	61.4	12.24	37.0	31.32	31.3	58.12	18.5
18	23.00	60.1	12.60	37.2	32.62	30.5	58.52	18.5
28	23.29	59.0	12.97	37.6	33.98	30.2	58.93	18.7
Sept. 7	23.58	58.2	13.35	38.0	35.38	30.3	59.35	19.0
17	23.87	57.8	13.73	38.6	36.79	30.8	59.77	19.6
27	24.15	57.6	14.09	39.3	38.17	31.7	60.18	20.3
Okt. 7	24.43	57.9	14.45	40.0	39.52	33.0	60.58	21.1
17	24.69	58.4	14.80	40.8	40.80	34.8	60.97	22.1
27	24.94	59.3	15.12	41.7	41.99	36.9	61.33	23.2
Nov. 6	25.17	60.4	15.42	42.6	43.05	39.3	61.67	24.5
16	25.37	61.7	15.69	43.6	43.96	42.1	61.97	25.8
26	25.54	63.2	15.93	44.7	44.70	45.0	62.24	27.3
Dez. 6	25.68	64.7	16.12	45.8	45.25	48.1	62.45	28.8
16	25.78	66.2	16.27	47.0	45.59	51.3	62.61	30.4
26	25.84	67.6	16.36	48.1	45.70	54.4	62.71	31.9
36	25.85	69.0	16.40	49.2	45.57	57.5	62.75	33.4
Mitt. Ort	22.53	72.9	11.96	38.6	32.40	42.2	57.88	22.4

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193)

SCHENBARE STERNÖRTER.

1909	β Orionis. 1 ^m .		θ Doradus. 4 ^m .8.		γ Orionis 1 ^m .7.		β Tauri. 1 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +
	5 ^h 10 ^m	8° 18'	5 ^h 13 ^m	67° 16'	5 ^h 20 ^m	6° 15'	5 ^h 20 ^m	28° 31'
Jan. 0	10.15	26.1	52.80	83.8	15.20	62.5	32.52	53.7
10	10.15	27.5	52.54	86.8	15.22	61.7	32.54	54.3
20	10.10	28.8	52.18	89.4	15.19	61.1	32.51	54.7
30	10.02	29.9	51.74	91.5	15.12	60.5	32.44	55.2
Febr. 9	9.89	30.8	51.23	93.1	15.01	60.1	32.32	55.5
19	9.74	31.4	50.67	94.2	14.87	59.8	32.17	55.8
März 1	9.57	31.7	50.08	94.8	14.72	59.6	31.99	56.0
11	9.40	31.8	49.48	94.7	14.54	59.5	31.80	56.0
21	9.22	31.7	48.87	94.2	14.37	59.5	31.60	55.9
31	9.05	31.2	48.29	93.1	14.21	59.7	31.42	55.7
April 10	8.90	30.6	47.74	91.5	14.06	59.9	31.25	55.4
20	8.77	29.7	47.25	89.4	13.94	60.3	31.12	55.0
30	8.68	28.6	46.83	86.9	13.85	60.9	31.03	54.6
Mai 10	8.63	27.2	46.49	84.1	13.80	61.5	30.98	54.2
20	8.62	25.6	46.23	81.0	13.79	62.3	30.98	53.8
30	8.66	23.9	46.06	77.6	13.83	63.3	31.02	53.5
Juni 9	8.74	22.0	46.00	74.1	13.91	64.3	31.12	53.2
19	8.87	19.9	46.04	70.2	14.05	65.6	31.28	53.1
29	9.03	17.9	46.18	66.6	14.21	66.8	31.47	53.0
Juli 9	9.23	15.9	46.42	63.2	14.41	68.1	31.70	53.1
19	9.45	13.9	46.74	60.0	14.64	69.4	31.96	53.2
29	9.70	12.1	47.14	57.1	14.89	70.6	32.24	53.5
Aug. 8	9.96	10.4	47.60	54.7	15.16	71.8	32.55	53.8
18	10.24	9.0	48.13	52.7	15.44	72.8	32.87	54.2
28	10.53	7.9	48.69	51.2	15.73	73.7	33.20	54.6
Sept. 7	10.82	7.1	49.28	50.4	16.02	74.4	33.54	55.1
17	11.11	6.6	49.88	50.2	16.32	74.8	33.88	55.5
27	11.40	6.5	50.48	50.7	16.61	75.0	34.21	55.9
Okt. 7	11.68	6.8	51.04	51.7	16.90	75.0	34.54	56.3
17	11.94	7.5	51.57	53.5	17.18	74.8	34.86	56.7
27	12.19	8.5	52.02	55.7	17.44	74.3	35.16	57.1
Nov. 6	12.42	9.7	52.43	58.4	17.69	73.7	35.44	57.5
16	12.63	11.2	52.73	61.5	17.91	72.9	35.70	57.9
26	12.80	12.8	52.94	64.8	18.11	72.1	35.93	58.3
Dez. 6	12.95	14.5	53.05	68.3	18.27	71.2	36.12	58.8
16	13.06	16.2	53.05	71.8	18.40	70.3	36.27	59.3
26	13.12	17.9	52.94	75.1	18.48	69.4	36.37	59.8
36	13.13	19.4	52.72	78.2	18.52	68.6	36.43	60.2
Mittl. Ort	9.83	22.5	49.47	75.7	14.98	63.9	32.31	52.6

194)

196)

201)

202)

1909	17 Camelop. 5 ^m .9.		δ Orionis. 2 ^m .2.		Gr. 966. 6 ^m .6.		α Leporis. 2 ^m .6.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	5 ^h 21 ^m	62° 59'	5 ^h 27 ^m	0° 21'	5 ^h 27 ^m	74° 58'	5 ^h 28 ^m	17° 52'
Jan. 0	35.26 ²	36.3 ²³	21.69 ²	59.5 ¹¹	35.33 ⁷	70.8 ²⁹	43.46 ⁰	76.8 ²⁰
10	35.24 ¹¹	38.6 ²²	21.71 ³	60.6 ¹⁰	35.26 ²⁴	73.7 ²⁷	43.46 ⁵	78.8 ¹⁸
20	35.13 ²⁰	40.8 ¹⁹	21.68 ⁷	61.6 ⁹	35.02 ⁴⁰	76.4 ²³	43.41 ⁹	80.6 ¹⁵
30	34.93 ²⁷	42.7 ¹⁶	21.61 ¹⁰	62.5 ⁶	34.62 ⁵²	78.7 ²⁰	43.32 ¹²	82.1 ¹²
Febr. 9	34.66 ³⁴	44.3 ¹²	21.51 ¹⁴	63.1 ⁵	34.10 ⁶⁴	80.7 ¹⁵	43.20 ¹⁶	83.3 ⁸
19	34.32 ³⁹	45.5 ⁷	21.37 ¹⁶	63.6 ³	33.46 ⁷¹	82.2 ¹⁰	43.04 ¹⁸	84.1 ⁶
März 1	33.93 ⁴⁰	46.2 ²	21.21 ¹⁷	63.9 ²	32.75 ⁷⁵	83.2 ⁵	42.86 ¹⁹	84.7 ²
11	33.53 ⁴¹	46.4 ¹	21.04 ¹⁸	64.1 ¹	32.00 ⁷⁶	83.7 ¹	42.67 ¹⁹	84.9 ¹
21	33.12 ³⁹	46.3 ⁶	20.86 ¹⁷	64.0 ²	31.24 ⁷²	83.6 ⁷	42.48 ¹⁹	84.8 ⁵
31	32.73 ³⁶	45.7 ¹⁰	20.69 ¹⁵	63.8 ⁵	30.52 ⁶⁷	82.9 ¹¹	42.29 ¹⁷	84.3 ⁸
April 10	32.37 ²⁹	44.7 ¹⁴	20.54 ¹²	63.3 ⁶	29.85 ⁵⁷	81.8 ¹⁵	42.12 ¹⁵	83.5 ¹¹
20	32.08 ²²	43.3 ¹⁷	20.42 ¹⁰	62.7 ⁷	29.28 ⁴⁶	80.3 ²⁰	41.97 ¹¹	82.4 ¹⁴
30	31.86 ¹⁵	41.6 ¹⁹	20.32 ⁶	62.0 ¹⁰	28.82 ³²	78.3 ²³	41.86 ⁸	81.0 ¹⁶
Mai 10	31.71 ⁶	39.7 ²⁰	20.26 ¹	61.0 ¹¹	28.50 ¹⁷	76.0 ²⁴	41.78 ⁴	79.4 ¹⁹
20	31.65 ⁴	37.7 ²⁰	20.25 ³	59.9 ¹³	28.33 ²	73.6 ²⁵	41.74 ¹	77.5 ²¹
30	31.69 ¹³	35.7 ²¹	20.28 ⁷	58.6 ¹⁴	28.31 ¹³	71.1 ²⁶	41.75 ⁵	75.4 ²³
Juni 9	31.82 ²⁴	33.6 ²³	20.35 ¹²	57.2 ¹⁶	28.44 ³³	68.5 ²⁸	41.80 ¹¹	73.1 ²⁶
19	32.06 ³⁰	31.3 ¹⁸	20.47 ¹⁵	55.6 ¹⁶	28.77 ⁴⁴	65.7 ²⁴	41.91 ¹⁴	70.5 ²⁴
29	32.36 ³⁸	29.5 ¹⁷	20.62 ¹⁹	54.0 ¹⁶	29.21 ⁵⁸	63.3 ²²	42.05 ¹⁷	68.1 ²⁴
Juli 9	32.74 ⁴⁴	27.8 ¹⁵	20.81 ²¹	52.4 ¹⁶	29.79 ⁷⁰	61.1 ²⁰	42.22 ²¹	65.7 ²³
19	33.18 ⁵⁰	26.3 ¹²	21.02 ²⁴	50.8 ¹⁵	30.49 ⁷⁹	59.1 ¹⁶	42.43 ²³	63.4 ²²
29	33.68 ⁵⁴	25.1 ⁹	21.26 ²⁶	49.3 ¹³	31.28 ⁸⁸	57.5 ¹³	42.66 ²⁵	61.2 ¹⁹
Aug. 8	34.22 ⁵⁷	24.2 ⁶	21.52 ²⁷	48.0 ¹²	32.16 ⁹⁵	56.2 ¹⁰	42.91 ²⁸	59.3 ¹⁶
18	34.79 ⁶⁰	23.6 ³	21.79 ²⁹	46.8 ¹⁰	33.11 ⁹⁹	55.2 ⁶	43.19 ²⁸	57.7 ¹³
28	35.39 ⁶²	23.3 ⁰	22.08 ²⁹	45.8 ⁷	34.10 ¹⁰³	54.6 ²	43.47 ²⁹	56.4 ⁹
Sept. 7	36.01 ⁶¹	23.3 ⁴	22.37 ²⁹	45.1 ⁵	35.13 ¹⁰⁵	54.4 ²	43.76 ³⁰	55.5 ⁵
17	36.62 ⁶²	23.7 ⁶	22.66 ²⁹	44.6 ¹	36.18 ¹⁰⁵	54.6 ⁶	44.06 ³⁰	55.0 ⁰
27	37.24 ⁶⁰	24.3 ¹⁰	22.95 ²⁹	44.5 ¹	37.23 ¹⁰²	55.2 ⁹	44.36 ²⁸	55.0 ⁴
Okt. 7	37.84 ⁵⁸	25.3 ¹²	23.24 ²⁷	44.6 ⁵	38.25 ⁹⁹	56.1 ¹⁴	44.64 ²⁸	55.4 ⁹
17	38.42 ⁵⁵	26.5 ¹⁵	23.51 ²⁶	45.1 ⁷	39.24 ⁹³	57.5 ¹⁷	44.92 ²⁶	56.3 ¹³
27	38.97 ⁵⁰	28.0 ¹⁹	23.77 ²⁵	45.8 ⁹	40.17 ⁸⁵	59.2 ²¹	45.18 ²⁵	57.6 ¹⁶
Nov. 6	39.47 ⁴⁶	29.9 ²⁰	24.02 ²²	46.7 ¹¹	41.02 ⁷⁵	61.3 ²⁴	45.43 ²²	59.2 ¹⁹
16	39.93 ³⁹	31.9 ²²	24.24 ²⁰	47.8 ¹³	41.77 ⁶⁴	63.7 ²⁷	45.65 ¹⁹	61.1 ²¹
26	40.32 ³¹	34.1 ²³	24.44 ¹⁶	49.1 ¹³	42.41 ⁵⁰	66.4 ²⁸	45.84 ¹⁵	63.2 ²³
Dez. 6	40.63 ²²	36.4 ²⁵	24.60 ¹³	50.4 ¹³	42.91 ³⁵	69.2 ³⁰	45.99 ¹¹	65.5 ²²
16	40.85 ¹⁴	38.9 ²⁵	24.73 ⁹	51.7 ¹³	43.26 ¹⁹	72.2 ²⁹	46.10 ⁷	67.7 ²²
26	40.99 ⁵	41.4 ²⁴	24.82 ⁴	53.0 ¹²	43.45 ²	75.1 ³⁰	46.17 ³	69.9 ²¹
36	41.04	43.8	24.86	54.2	43.47	78.1	46.20	72.0
Mittl. Ort	34.30	31.8	21.41	57.5	32.98	66.0	42.97	73.1
	203)		206)		205)		207)	

1909	α Orionis. 2 ^m .8.		ε Orionis. 1 ^m .6.		ζ Tauri. 3 ^m .0.		β Doradus. 3 ^m .7.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. -
	5 ^h 30 ^m	5° 57'	5 ^h 31 ^m	1° 15'	5 ^h 32 ^m	21° 5'	5 ^h 32 ^m	62° 32'
Jan. 0	59.22	71.4 ¹⁴	36.01	36.3 ¹²	12.54	15.8	52.72	63.1 ³²
10	59.23	72.8 ¹³	36.03	37.5 ¹⁰	12.57	15.9	52.55	66.3 ²⁷
20	59.20	74.1 ¹¹	36.01	38.5 ⁹	12.56	16.0	52.30	69.0 ²⁴
30	59.13	75.2 ¹⁰	35.94	39.4 ⁷	12.50	16.1	51.97	71.4 ¹⁹
Febr. 9	59.03	76.1 ¹⁴	35.84	40.1 ¹³	12.40	16.3	51.58	73.3 ¹⁴
19	58.89	76.7 ¹⁷	35.71	40.6 ¹⁶	12.26	16.4	51.14	74.7 ⁸
März 1	58.72	77.1 ¹⁷	35.55	40.9 ¹⁸	12.10	16.4	50.66	75.5 ⁵
11	58.55	77.3 ¹⁸	35.37	41.1 ¹⁷	11.91	16.5	50.17	75.8 ²
21	58.37	77.2 ¹⁷	35.20	41.0 ¹⁷	11.73	16.5	49.67	75.6 ⁸
31	58.20	76.8 ¹⁶	35.03	40.8 ¹⁶	11.56	16.4	49.18	74.8 ¹³
April 10	58.04	76.3 ¹³	34.87	40.3 ¹³	11.40	16.3	48.72	73.5 ¹⁷
20	57.91	75.6 ¹¹	34.74	39.7 ⁹	11.27	16.3	48.30	71.8 ²³
30	57.80	74.6 ⁶	34.65	38.9 ⁶	11.17	16.2	47.93	69.5 ²⁷
Mai 10	57.74	73.4 ²	34.59	37.9 ²	11.11	16.2	47.63	66.8 ²⁹
20	57.72	72.0 ²	34.57	36.8 ²	11.10	16.2	47.40	63.9 ³²
30	57.74	70.5 ⁶	34.59	35.5 ⁶	11.14	16.3	47.25	60.7 ³⁴
Juni 9	57.80	68.8 ¹¹	34.65	34.0 ¹²	11.22	16.4	47.17	57.3 ³⁹
19	57.91	66.9 ¹⁵	34.77	32.3 ¹⁵	11.35	16.7	47.19	53.4 ³⁵
29	58.06	65.0 ¹⁸	34.92	30.7 ¹⁸	11.52	17.1	47.29	49.9 ³⁴
Juli 9	58.24	63.1 ²⁰	35.10	29.1 ²¹	11.73	17.5	47.47	46.5 ³³
19	58.44	61.3 ²⁴	35.31	27.5 ²⁴	11.96	18.0	47.72	43.2 ³⁰
29	58.68	59.6 ²⁵	35.55	26.0 ²⁵	12.23	18.5	48.05	40.2 ²⁶
Aug. 8	58.93	58.0 ²⁷	35.80	24.6 ²⁷	12.51	19.0	48.43	37.6 ²²
18	59.20	56.7 ²⁸	36.07	23.4 ²⁹	12.81	19.6	48.86	35.4 ¹⁷
28	59.48	55.6 ²⁹	36.36	22.4 ²⁹	13.11	20.1	49.33	33.7 ¹¹
Sept. 7	59.77	54.8 ²⁹	36.65	21.7 ²⁹	13.43	20.5	49.83	32.7 ⁵
17	60.06	54.4 ²⁹	36.94	21.2 ²⁹	13.75	20.9	50.34	32.2 ²
27	60.35	54.3 ²⁸	37.23	21.1 ²⁸	14.07	21.1	50.85	32.4 ⁹
Okt. 7	60.63	54.5 ²⁸	37.51	21.3 ²⁸	14.38	21.3	51.35	33.3 ¹⁵
17	60.91	55.1 ²⁶	37.79	21.8 ²⁷	14.68	21.4	51.83	34.8 ¹²
27	61.17	56.0 ²⁵	38.06	22.5 ²⁵	14.98	21.5	52.25	36.8 ²⁵
Nov. 6	61.42	57.2 ²²	38.31	23.5 ²²	15.25	21.4	52.63	39.3 ³¹
16	61.64	58.6 ²⁰	38.53	24.7 ²⁰	15.51	21.4	52.94	42.4 ³²
26	61.84	60.1 ¹⁷	38.73	26.0 ¹⁷	15.73	21.3	53.17	45.6 ³⁵
Dez. 6	62.01	61.8 ¹²	38.90	27.3 ¹³	15.92	21.3	53.32	49.1 ³⁵
16	62.13	63.4 ⁹	39.03	28.7 ⁹	16.08	21.2	53.38	52.6 ³⁴
26	62.22	65.0 ⁴	39.12	30.1 ⁵	16.19	21.2	53.35	56.0 ³³
36	62.26	66.6	39.17	31.3	16.25	21.3	53.22	59.3
Mittl. Ort	58.88	68.9	35.72	34.3	12.33	15.6	50.04	57.1

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211)

212)

1909	α Columbae. 2 ^m .4.		ο Aurigae. 5 ^m .7.		ζ Leporis. 3 ^m .5.		x Orionis. 2 ^m .1.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	5 ^h 36 ^m	34° 6'	5 ^h 38 ^m	49° 47'	5 ^h 42 ^m	14° 51'	5 ^h 43 ^m	9° 41'
Jan. 0	22.04	84.6	51.48	16.9	50.37	22.1	26.81	67.5
10	22.02	87.3	51.51	18.6	50.38	24.0	26.84	69.2
20	21.95	89.6	51.48	20.2	50.35	25.7	26.82	70.7
30	21.82	91.7	51.38	21.7	50.28	27.2	26.75	72.0
Febr. 9	21.66	93.3	51.23	23.0	50.17	28.4	26.64	73.0
19	21.46	94.5	51.02	24.0	50.02	29.3	26.51	73.7
März 1	21.24	95.3	50.78	24.7	49.85	29.9	26.34	74.2
11	21.01	95.7	50.51	25.0	49.67	30.1	26.17	74.5
21	20.76	95.5	50.23	25.1	49.48	30.1	25.98	74.5
31	20.53	95.0	49.97	24.8	49.29	29.7	25.80	74.2
April 10	20.31	94.0	49.72	24.1	49.12	29.1	25.64	73.6
20	20.11	92.6	49.51	23.2	48.97	28.1	25.50	72.8
30	19.95	90.8	49.35	22.1	48.85	26.9	25.39	71.7
Mai 10	19.84	88.7	49.25	20.8	48.77	25.4	25.31	70.4
20	19.77	86.2	49.21	19.4	48.73	23.7	25.27	69.0
30	19.73	83.6	49.23	18.0	48.72	21.8	25.27	67.3
Juni 9	19.75	80.7	49.32	16.5	48.77	19.7	25.32	65.5
19	19.83	77.5	49.49	15.0	48.86	17.3	25.42	63.3
29	19.95	74.4	49.70	13.6	48.99	15.1	25.55	61.3
Juli 9	20.11	71.5	49.97	12.5	49.15	12.8	25.72	59.3
19	20.31	68.6	50.29	11.5	49.35	10.7	25.91	57.4
29	20.55	66.0	50.64	10.6	49.57	8.6	26.13	55.5
Aug. 8	20.81	63.6	51.03	9.9	49.82	6.7	26.38	53.8
18	21.10	61.7	51.44	9.5	50.08	5.2	26.64	52.4
28	21.41	60.1	51.87	9.2	50.36	3.9	26.92	51.2
Sept. 7	21.72	59.1	52.31	9.2	50.64	3.0	27.20	50.4
17	22.04	58.6	52.76	9.4	50.94	2.6	27.49	49.9
27	22.37	58.6	53.21	9.7	51.23	2.5	27.78	49.9
Okt. 7	22.68	59.2	53.65	10.2	51.52	2.9	28.07	50.2
17	22.99	60.4	54.09	11.0	51.80	3.6	28.35	50.8
27	23.27	62.1	54.50	11.9	52.07	4.8	28.63	51.9
Nov. 6	23.54	64.2	54.89	13.0	52.32	6.3	28.88	53.2
16	23.77	66.6	55.25	14.3	52.55	8.1	29.11	54.8
26	23.96	69.4	55.57	15.8	52.75	10.1	29.31	56.5
Dez. 6	24.12	72.3	55.83	17.4	52.92	12.2	29.49	58.4
16	24.23	75.2	56.04	19.1	53.05	14.4	29.62	60.3
26	24.28	78.1	56.19	20.8	53.14	16.5	29.72	62.1
36	24.29	80.9	56.27	22.5	53.17	18.5	29.77	63.9
Mittel. Ort	21.17	80.2	50.98	14.2	49.90	19.3	26.42	65.2

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1909	α Orionis. 1 ^m .		δ Aurigae. 3 ^m .8.		β Aurigae. 1 ^m .9.		θ Aurigae. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	5 ^h 50 ^m	7° 23'	5 ^h 52 ^m	54° 16'	5 ^h 52 ^m	44° 56'	5 ^h 53 ^m	37° 12'
Jan. 0	14.95	25.8	2.69	45.5	51.64	22.1	31.27	26.3
10	14.99	25.1	2.75	47.5	51.70	23.6	31.33	27.4
20	14.99	24.4	2.73	49.4	51.69	25.0	31.33	28.4
30	14.95	23.9	2.63	51.1	51.62	26.3	31.28	29.3
Febr. 9	14.86	23.5	2.47	52.6	51.50	27.5	31.17	30.1
19	14.74	23.2	2.25	53.8	51.33	28.4	31.02	30.8
März 1	14.59	23.0	1.98	54.7	51.12	29.1	30.84	31.4
11	14.42	22.9	1.68	55.3	50.88	29.6	30.63	31.7
21	14.24	23.0	1.37	55.4	50.63	29.7	30.42	31.8
31	14.07	23.1	1.07	55.2	50.39	29.6	30.20	31.8
April 10	13.91	23.3	0.79	54.7	50.16	29.2	30.01	31.5
20	13.78	23.7	0.55	53.8	49.97	28.5	29.84	31.0
30	13.67	24.1	0.35	52.6	49.81	27.7	29.70	30.4
Mai 10	13.61	24.7	0.21	51.2	49.71	26.6	29.62	29.7
20	13.58	25.4	0.14	49.7	49.66	25.5	29.58	29.0
30	13.59	26.2	0.14	48.0	49.67	24.3	29.59	28.2
Juni 9	13.64	27.1	0.21	46.3	49.74	23.1	29.66	27.4
19	13.74	28.1	0.35	44.6	49.87	21.9	29.78	26.6
29	13.89	29.3	0.58	42.9	50.07	20.7	29.96	25.9
Juli 9	14.06	30.4	0.86	41.4	50.30	19.7	30.17	25.3
19	14.27	31.5	1.18	40.1	50.58	18.8	30.42	24.8
29	14.50	32.6	1.55	38.9	50.89	18.0	30.71	24.4
Aug. 8	14.75	33.6	1.96	37.9	51.24	17.4	31.02	24.1
18	15.02	34.5	2.39	37.2	51.61	17.0	31.35	23.9
28	15.30	35.2	2.86	36.7	52.00	16.7	31.70	23.8
Sept. 7	15.59	35.8	3.34	36.4	52.40	16.5	32.06	23.8
17	15.89	36.1	3.83	36.3	52.81	16.5	32.43	23.9
27	16.18	36.3	4.32	36.4	53.23	16.7	32.81	24.0
Okt. 7	16.48	36.2	4.82	36.9	53.64	17.0	33.18	24.2
17	16.77	35.9	5.30	37.5	54.05	17.5	33.54	24.5
27	17.05	35.3	5.76	38.4	54.44	18.1	33.90	24.9
Nov. 6	17.32	34.6	6.21	39.5	54.81	18.9	34.23	25.4
16	17.57	33.8	6.62	40.9	55.15	19.9	34.55	26.0
26	17.79	32.9	6.98	42.4	55.46	21.0	34.83	26.7
Dez. 6	17.98	31.9	7.29	44.2	55.73	22.2	35.08	27.5
16	18.14	31.0	7.54	46.0	55.95	23.5	35.28	28.3
26	18.26	30.1	7.71	48.0	56.11	24.9	35.43	29.3
36	18.33	29.3	7.82	50.1	56.20	26.4	35.52	30.3
Mittl. Ort	14.69	26.6	2.05	43.0	51.22	20.2	30.95	25.0

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1909	γ Columbae. 3 ^m .9.		ν Orionis. 4 ^m .4.		22H. Camelop. 4 ^m .6.		γ Geminorum. 3 ^m .3.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	5 ^h 56 ^m	42° 48'	6 ^h 2 ^m	14° 46'	6 ^h 8 ^m	69° 20'	6 ^h 9 ^m	22° 32'
Jan. 0	22.89	75.1	22.83	47.4	50.89	73.6	23.35	2.2
10	22.86	78.1	22.88	47.0	50.97	76.3	23.42	2.3
20	22.78	80.8	22.89	46.7	50.93	78.9	23.44	2.5
30	22.65	83.3	22.86	46.6	50.76	81.3	23.41	2.7
Febr. 9	22.46	85.2	22.78	46.5	50.48	83.5	23.33	3.0
19	22.24	86.8	22.66	46.4	50.10	85.3	23.21	3.2
März 1	21.98	87.9	22.51	46.4	49.65	86.7	23.06	3.5
11	21.70	88.5	22.34	46.5	49.14	87.6	22.89	3.7
21	21.41	88.6	22.17	46.6	48.60	88.0	22.71	3.8
31	21.13	88.2	21.99	46.7	48.06	87.9	22.53	3.9
April 10	20.86	87.3	21.83	46.8	47.56	87.3	22.35	3.9
20	20.62	86.0	21.69	47.0	47.10	86.3	22.20	4.0
30	20.41	84.2	21.58	47.2	46.71	84.9	22.08	3.9
Mai 10	20.24	82.1	21.50	47.4	46.41	83.1	22.00	3.8
20	20.11	79.6	21.47	47.8	46.21	81.1	21.96	3.8
30	20.04	76.9	21.48	48.2	46.12	78.9	21.96	3.8
Juni 9	20.02	73.9	21.53	48.6	46.14	76.5	22.00	3.8
19	20.05	70.7	21.62	49.2	46.27	74.1	22.09	3.9
29	20.15	67.2	21.77	49.8	46.54	71.6	22.24	4.0
Juli 9	20.28	64.0	21.94	50.5	46.90	69.3	22.41	4.2
19	20.46	60.8	22.14	51.2	47.35	67.1	22.62	4.4
29	20.69	58.0	22.37	51.8	47.87	65.2	22.85	4.6
Aug. 8	20.95	55.5	22.63	52.4	48.48	63.6	23.11	4.9
18	21.24	53.3	22.90	53.0	49.14	62.2	23.39	5.1
28	21.56	51.5	23.19	53.5	49.85	61.0	23.69	5.3
Sept. 7	21.90	50.2	23.49	53.9	50.59	60.3	24.00	5.5
17	22.24	49.6	23.79	54.1	51.37	59.8	24.32	5.6
27	22.60	49.5	24.10	54.2	52.16	59.7	24.64	5.6
Okt. 7	22.95	50.0	24.41	54.1	52.95	60.0	24.96	5.5
17	23.30	51.2	24.71	53.9	53.73	60.7	25.29	5.4
27	23.61	52.8	25.00	53.5	54.49	61.7	25.60	5.2
Nov. 6	23.91	55.0	25.29	53.0	55.20	63.0	25.90	5.0
16	24.18	57.6	25.55	52.5	55.86	64.7	26.19	4.7
26	24.40	60.5	25.79	51.9	56.45	66.8	26.45	4.5
Dez. 6	24.59	63.7	26.00	51.4	56.95	69.1	26.68	4.4
16	24.70	66.9	26.18	50.8	57.35	71.5	26.87	4.3
26	24.77	70.2	26.31	50.3	57.63	74.2	27.02	4.3
36	24.78	73.3	26.39	49.9	57.79	76.9	27.13	4.3
Mon. Ort	21.67	71.9	22.58	47.5	49.25	71.2	23.09	1.9

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1909	♁ Canis maj. 2 ^m .9.		♊ Geminorum. 2 ^m .9.		♈ Aurigac. 5 ^m .I.		♉ Canis maj. 2 ^m .C.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.
	6 ^h 16 ^m 30 ^s 1'		6 ^h 17 ^m 22 ^s 33'		6 ^h 17 ^m 49 ^s 20'		6 ^h 18 ^m 17 ^s 54'	
Jan. 0	49.95	22.2	27.60	39.8	54.00	7.9	42.06	37.8
10	49.98	24.9	27.68	39.9	54.10	9.6	42.11	40.0
20	49.96	27.4	27.71	40.0	54.12	11.3	42.11	42.0
30	49.88	29.6	27.69	40.3	54.07	13.0	42.06	43.8
Febr. 9	49.76	31.5	27.62	40.5	53.96	14.4	41.97	45.3
19	49.60	33.0	27.51	40.8	53.80	15.7	41.84	46.5
März 1	49.41	34.1	27.36	41.1	53.58	16.7	41.68	47.4
11	49.20	34.8	27.19	41.3	53.33	17.4	41.50	47.9
21	48.97	35.1	27.01	41.5	53.06	17.8	41.30	48.0
31	48.75	34.9	26.83	41.6	52.79	17.9	41.11	47.9
April 10	48.53	34.4	26.66	41.7	52.53	17.7	40.92	47.5
20	48.33	33.4	26.50	41.7	52.31	17.1	40.76	46.7
30	48.16	32.0	26.38	41.7	52.12	16.3	40.61	45.5
Mai 10	48.02	30.3	26.29	41.7	51.97	15.3	40.50	44.2
20	47.92	28.3	26.24	41.6	51.89	14.0	40.42	42.5
30	47.86	26.0	26.23	41.6	51.86	12.7	40.39	40.7
Juni 9	47.85	23.5	26.27	41.6	51.89	11.3	40.40	38.6
19	47.89	20.8	26.36	41.7	51.99	9.8	40.44	36.4
29	47.97	17.8	26.49	41.8	52.17	8.2	40.54	33.9
Juli 9	48.09	15.0	26.66	41.9	52.38	6.9	40.67	31.6
19	48.25	12.3	26.86	42.0	52.65	5.6	40.83	29.4
29	48.44	9.7	27.09	42.2	52.96	4.4	41.02	27.2
Aug. 8	48.67	7.3	27.34	42.4	53.31	3.4	41.24	25.2
18	48.92	5.3	27.62	42.6	53.69	2.5	41.48	23.5
28	49.20	3.6	27.91	42.8	54.09	1.8	41.74	22.2
Sept. 7	49.49	2.4	28.21	42.8	54.51	1.3	42.02	21.2
17	49.79	1.7	28.53	42.9	54.95	0.9	42.31	20.6
27	50.11	1.5	28.85	42.8	55.39	0.7	42.60	20.4
Okt. 7	50.42	1.8	29.18	42.7	55.84	0.8	42.90	20.7
17	50.74	2.7	29.50	42.5	56.29	1.0	43.20	21.5
27	51.04	4.1	29.82	42.2	56.73	1.4	43.49	22.6
Nov. 6	51.32	5.9	30.13	42.0	57.15	2.1	43.76	24.2
16	51.59	8.1	30.42	41.7	57.55	3.0	44.02	26.1
26	51.82	10.7	30.69	41.4	57.91	4.0	44.25	28.2
Dez. 6	52.02	13.5	30.93	41.2	58.23	5.3	44.45	30.5
16	52.18	16.3	31.13	41.1	58.50	6.8	44.62	32.9
26	52.28	19.3	31.29	41.1	58.70	8.4	44.74	35.3
36	52.34	22.0	31.40	41.1	58.84	10.0	44.81	37.6
Mittl. Ort	49.15	20.9	27.34	39.6	53.45	6.7	41.52	36.9

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1909	8 Monocerot. 4 ^m .5.		α Argus. 1 ^m .		10 Monocerot. 5 ^m .0.		8 Lyncis. 6 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	6 ^h 18 ^m	4° 38'	6 ^h 21 ^m	52° 38'	6 ^h 23 ^m	4° 42'	6 ^h 29 ^m	61° 33'
Jan. 0	57.07	22.3	57.63	45.2	28.33	19.9	23.62	44.5
10	57.14	21.3	57.61	48.7	28.39	21.5	23.75	46.9
20	57.16	20.4	57.52	51.8	28.41	22.9	23.77	49.2
30	57.14	19.7	57.36	54.6	28.39	24.1	23.71	51.4
Febr. 9	57.07	19.1	57.14	57.0	28.32	25.1	23.55	53.4
19	56.96	18.7	56.86	59.0	28.21	25.8	23.31	55.1
März 1	56.82	18.5	56.55	60.5	28.06	26.3	23.01	56.6
11	56.66	18.3	56.21	61.5	27.90	26.6	22.67	57.6
21	56.49	18.3	55.85	61.9	27.72	26.7	22.29	58.2
31	56.32	18.5	55.49	61.9	27.55	26.6	21.90	58.4
April 10	56.15	18.8	55.14	61.3	27.38	26.3	21.53	58.2
20	56.01	19.2	54.81	60.2	27.23	25.7	21.19	57.5
30	55.89	19.7	54.51	58.7	27.10	24.9	20.90	56.4
Mai 10	55.80	20.3	54.26	56.7	27.00	24.0	20.66	55.1
20	55.75	21.1	54.05	54.3	26.94	22.8	20.50	53.4
30	55.73	22.0	53.89	51.6	26.92	21.5	20.42	51.6
Juni 9	55.76	23.0	53.80	48.6	26.93	20.1	20.42	49.6
19	55.83	24.0	53.77	45.4	26.99	18.5	20.51	47.5
29	55.95	25.3	53.81	41.7	27.09	16.7	20.69	45.2
Juli 9	56.10	26.5	53.90	38.4	27.23	15.1	20.93	43.2
19	56.27	27.6	54.06	35.1	27.39	13.5	21.25	41.2
29	56.48	28.7	54.26	32.0	27.59	11.9	21.63	39.4
Aug. 8	56.70	29.8	54.52	29.1	27.81	10.5	22.06	37.8
18	56.95	30.7	54.82	26.6	28.05	9.2	22.54	36.4
28	57.22	31.4	55.16	24.5	28.30	8.2	23.06	35.2
Sept. 7	57.50	31.9	55.53	23.0	28.57	7.5	23.61	34.3
17	57.78	32.2	55.93	22.1	28.86	7.1	24.19	33.6
27	58.08	32.2	56.33	21.7	29.15	7.0	24.78	33.2
Okt. 7	58.38	32.0	56.75	22.0	29.44	7.3	25.38	33.1
17	58.68	31.6	57.15	23.0	29.73	7.9	25.98	33.4
27	58.97	30.8	57.54	24.6	30.02	8.8	26.57	33.9
Nov. 6	59.25	29.9	57.90	26.7	30.30	10.0	27.14	34.7
16	59.51	28.8	58.22	29.3	30.56	11.4	27.67	35.9
26	59.76	27.7	58.50	32.3	30.80	13.6	28.16	37.4
Dez. 6	59.97	26.5	58.72	35.6	31.02	14.7	28.59	39.2
16	60.16	25.3	58.88	39.0	31.20	16.5	28.94	41.2
26	60.30	24.1	58.97	42.5	31.33	18.2	29.22	43.3
36	60.39	23.0	58.98	46.0	31.42	19.8	29.40	45.6
Mittl. Ort	56.77	22.7	55.84	44.4	27.96	19.5	22.59	43.4

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1909	23 H. Camelop. 5 ^m .6.		♁ Canis maj. 4 ^m .6.		♄ Aurigae. 6 ^m .I.		♊ Geminorum. 2 ^m .O.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	6 ^h 30 ^m	79° 39'	6 ^h 31 ^m	22° 53'	6 ^h 32 ^m	39° 28'	6 ^h 32 ^m	16° 28'
Jan. 0	47.29 ¹⁸	54.4 ³¹	15.17 ⁵	32.3 ²⁵	21.64 ¹¹	18.8 ¹¹	27.59 ⁹	39.3 ³
10	47.47 ⁶	57.5 ³⁰	15.22 ¹	34.8 ²³	21.75 ⁴	19.9 ¹²	27.68 ⁵	39.0 ²
20	47.41 ³⁰	60.5 ²⁹	15.23 ⁵	37.1 ²⁰	21.79 ¹	21.1 ¹¹	27.73 ¹	38.8 ²
30	47.11 ⁵³	63.4 ²⁵	15.18 ⁹	39.1 ¹⁸	21.78 ⁷	22.2 ¹¹	27.72 ¹	38.6 ²
Febr. 9	46.58 ⁷³	65.9 ²³	15.09 ¹³	40.9 ¹⁴	21.71 ¹³	23.3 ¹⁰	27.66 ¹⁰	38.6 ¹
19	45.85 ⁸⁹	68.2 ¹⁸	14.96 ¹⁷	42.3 ¹¹	21.58 ¹⁷	24.3 ⁹	27.56 ¹³	38.7 ¹
März 1	44.96 ¹⁰¹	70.0 ¹³	14.79 ¹⁹	43.4 ⁷	21.41 ²⁰	25.2 ⁶	27.43 ¹⁶	38.8 ¹
11	43.95 ¹⁰⁹	71.3 ⁷	14.60 ²⁰	44.1 ³	21.21 ²¹	25.8 ⁵	27.27 ¹⁷	38.9 ¹
21	42.86 ¹¹⁰	72.0 ²	14.40 ²¹	44.4 ⁰	21.00 ²³	26.3 ²	27.10 ¹⁸	39.1 ²
31	41.76 ¹⁰⁸	72.2 ⁵	14.19 ²⁰	44.4 ⁴	20.77 ²¹	26.5 ⁰	26.92 ¹⁵	39.3 ¹
April 10	40.68 ¹⁰⁰	71.7 ⁹	13.99 ¹⁸	44.0 ⁸	20.56 ¹⁹	26.5 ³	26.77 ¹⁷	39.4 ²
20	39.68 ⁸⁹	70.8 ¹⁴	13.81 ¹⁵	43.2 ¹²	20.37 ¹⁶	26.2 ⁴	26.60 ¹³	39.6 ²
30	38.79 ⁷³	69.4 ¹⁹	13.66 ¹³	42.0 ¹⁴	20.21 ¹³	25.8 ⁶	26.47 ⁹	39.8 ³
Mai 10	38.06 ⁵⁶	67.5 ²²	13.53 ⁹	40.6 ¹⁷	20.08 ⁸	25.2 ⁸	26.38 ⁶	40.1 ²
20	37.50 ³⁷	65.3 ²⁵	13.44 ⁶	38.9 ²⁰	20.00 ²	24.4 ⁸	26.32 ²	40.3 ³
30	37.13 ¹⁵	62.8 ²⁶	13.38 ¹	36.9 ²²	19.98 ²	23.6 ¹⁰	26.30 ³	40.6 ³
Juni 9	36.98 ⁶	60.2 ²⁷	13.37 ³	34.7 ²³	20.00 ⁸	22.6 ⁹	26.33 ⁶	40.9 ⁴
19	37.04 ³²	57.5 ³²	13.40 ⁷	32.4 ²⁵	20.08 ¹²	21.7 ⁹	26.39 ¹⁰	41.3 ⁴
29	37.35 ⁴⁹	54.3 ²⁸	13.47 ¹²	29.9 ²⁷	20.20 ¹⁹	20.8 ¹⁰	26.49 ¹⁶	41.7 ⁵
Juli 9	37.85 ⁶⁸	51.5 ²⁷	13.59 ¹⁴	27.2 ²⁴	20.39 ²²	19.8 ⁹	26.65 ¹⁸	42.2 ⁴
19	38.53 ⁸⁷	48.8 ²⁵	13.73 ¹⁸	24.8 ²³	20.61 ²⁵	18.9 ⁷	26.83 ²¹	42.6 ⁵
29	39.40 ¹⁰²	46.3 ²²	13.91 ²¹	22.5 ²²	20.86 ²⁹	18.2 ⁸	27.04 ²³	43.1 ³
Aug. 8	40.42 ¹¹⁶	44.1 ¹⁹	14.12 ²⁴	20.3 ¹⁹	21.15 ³¹	17.4 ⁶	27.27 ²⁵	43.4 ⁴
18	41.58 ¹²⁸	42.2 ¹⁷	14.36 ²⁶	18.4 ¹⁵	21.46 ³⁴	16.8 ⁶	27.52 ²⁷	43.8 ⁵
28	42.86 ¹³⁷	40.5 ¹²	14.62 ²⁷	16.9 ¹²	21.80 ³⁵	16.2 ⁴	27.79 ²⁹	44.1 ¹
Sept. 7	44.23 ¹⁴⁵	39.3 ⁹	14.89 ²⁹	15.7 ⁷	22.15 ³⁷	15.8 ⁴	28.08 ³⁰	44.2 ²
17	45.68 ¹⁴⁹	38.4 ⁵	15.18 ³⁰	15.0 ²	22.52 ³⁸	15.4 ³	28.38 ³¹	44.2 ¹
27	47.17 ¹⁵¹	37.9 ²	15.48 ³⁰	14.8 ³	22.90 ³⁹	15.1 ²	28.69 ³¹	44.1 ²
Okt. 7	48.68 ¹⁵⁰	37.9 ⁴	15.78 ³¹	15.1 ⁷	23.29 ³⁹	14.9 ¹	29.00 ³²	43.9 ⁴
17	50.18 ¹⁴⁷	38.3 ⁸	16.09 ²⁹	15.8 ¹²	23.68 ³⁸	14.8 ⁰	29.32 ³¹	43.5 ⁵
27	51.65 ¹³⁹	39.1 ¹³	16.38 ²⁹	17.0 ¹⁷	24.06 ³⁷	14.8 ²	29.63 ³⁰	43.0 ⁵
Nov. 6	53.04 ¹³⁰	40.4 ¹⁷	16.67 ²⁷	18.7 ²⁰	24.43 ³⁶	15.0 ³	29.93 ²⁹	42.5 ⁶
16	54.34 ¹¹⁶	42.1 ²¹	16.94 ²⁴	20.7 ²³	24.79 ³³	15.3 ⁵	30.22 ²⁷	41.8 ⁶
26	55.50 ⁹⁹	44.2 ²⁵	17.18 ²¹	23.0 ²⁵	25.12 ³⁰	15.8 ⁶	30.49 ²⁴	41.2 ⁷
Dez. 6	56.49 ⁸⁰	46.7 ²⁷	17.39 ¹⁸	25.5 ²⁶	25.42 ²⁵	16.4 ⁸	30.73 ²¹	40.5 ⁶
16	57.29 ⁵⁷	49.4 ²⁹	17.57 ¹³	28.1 ²⁷	25.67 ²⁰	17.2 ⁹	30.94 ¹⁷	39.9 ⁴
26	57.86 ³⁴	52.3 ³¹	17.70 ⁸	30.8 ²⁵	25.87 ¹⁴	18.1 ¹¹	31.11 ¹²	39.5 ⁴
36	58.20	55.4	17.78	33.3	26.01	19.2	31.23	39.1
Mitt. Ort	43.09	52.9	14.53	32.1	21.26	18.4	27.33	39.2
	248 ^h		249 ^h		250 ^h		251 ^h	

SCHEINBARE STERNÖRTER.

1909	ν Argus. 3 ^m .I.		S Monocerot. (4 ^m .4.)		ε Geminorum. 3 ^m .I.		ξ Geminorum. 3 ^m .4.	
	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	6 ^h 34 ^m	43° 6'	6 ^h 35 ^m	9° 58'	6 ^h 38 ^m	25° 13'	6 ^h 40 ^m	12° 59'
Jan. 0	59.84	56.9	58.31	49.8	20.34	18.9	11.22	39.5
10	59.87	60.1	58.40	49.1	20.45	19.1	11.32	39.0
20	59.83	63.1	58.44	48.5	20.50	19.4	11.37	38.5
30	59.73	65.9	58.43	48.0	20.49	19.8	11.36	38.2
Febr. 9	59.58	68.3	58.37	47.7	20.44	20.3	11.31	38.0
19	59.38	70.2	58.28	47.5	20.34	20.7	11.22	37.9
März 1	59.14	71.8	58.15	47.4	20.21	21.1	11.10	37.9
11	58.88	72.8	57.99	47.4	20.04	21.5	10.94	38.0
21	58.60	73.4	57.83	47.4	19.86	21.8	10.77	38.1
31	58.32	73.5	57.65	47.6	19.67	22.0	10.60	38.3
April 10	58.04	73.0	57.49	47.8	19.49	22.2	10.43	38.5
20	57.77	72.2	57.34	48.1	19.33	22.2	10.28	38.7
30	57.54	70.8	57.21	48.5	19.19	22.2	10.15	39.0
Mai 10	57.34	69.1	57.11	48.9	19.09	22.1	10.05	39.4
20	57.18	66.9	57.05	49.4	19.03	22.0	9.99	39.8
30	57.06	64.5	57.03	50.0	19.00	21.8	9.96	40.2
Juni 9	56.99	61.7	57.04	50.7	19.02	21.7	9.98	40.7
19	56.98	58.8	57.10	51.4	19.08	21.5	10.03	41.2
29	57.01	55.7	57.20	52.2	19.19	21.4	10.12	41.8
Juli 9	57.11	52.2	57.34	53.1	19.35	21.3	10.27	42.5
19	57.24	49.1	57.51	53.9	19.53	21.2	10.43	43.1
29	57.42	46.2	57.70	54.7	19.75	21.2	10.63	43.7
Aug. 8	57.64	43.4	57.93	55.4	19.99	21.1	10.85	44.2
18	57.90	41.0	58.17	56.0	20.26	21.0	11.09	44.7
28	58.19	39.0	58.43	56.5	20.54	20.9	11.36	45.0
Sept. 7	58.51	37.5	58.71	56.8	20.84	20.8	11.63	45.2
17	58.84	36.5	59.00	56.9	21.16	20.6	11.92	45.3
27	59.19	36.1	59.29	56.8	21.49	20.4	12.23	45.1
Okt. 7	59.55	36.3	59.60	56.6	21.82	20.1	12.53	44.8
17	59.90	37.1	59.90	56.1	22.15	19.8	12.84	44.4
27	60.25	38.5	60.21	55.5	22.49	19.5	13.15	43.8
Nov. 6	60.58	40.5	60.50	54.7	22.81	19.1	13.46	43.1
16	60.88	42.9	60.79	53.8	23.13	18.8	13.74	42.3
26	61.15	45.7	61.05	52.8	23.42	18.6	14.01	41.4
Dec. 6	61.37	48.8	61.29	51.8	23.68	18.4	14.26	40.5
16	61.55	52.1	61.49	50.8	23.91	18.3	14.47	39.7
26	61.67	55.4	61.65	50.0	24.09	18.3	14.64	39.0
36	61.72	58.7	61.77	49.1	24.22	18.5	14.76	38.3
Mill. Ort.	58.59	57.2	58.02	49.8	20.06	18.8	10.95	39.4

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1909	α Canis maj.*) 1 ^m .		18 Monocerot. 4 ^m .7.		† Geminorum. 3 ^m .4.		z Pictoris. 3 ^m .2.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	6 ^h 41 ^m	16° 35'	6 ^h 43 ^m	2° 30'	6 ^h 46 ^m	34° 4'	6 ^h 47 ^m	61° 50'
Jan. 0	8.71	27.0	7.31	44.3	47.88	17.9	18.15	34.5
10	8.78	29.3	7.40	43.1	48.01	18.6	18.14	38.0
20	8.79	31.4	7.44	42.0	48.07	19.5	18.02	41.4
30	8.76	33.2	7.43	41.1	48.08	20.3	17.84	44.6
Febr. 9	8.68	34.8	7.38	40.4	48.02	21.2	17.55	47.4
19	8.56	36.1	7.29	39.9	47.92	22.1	17.20	49.7
März 1	8.41	37.0	7.16	39.5	47.78	22.8	16.79	51.6
11	8.24	37.7	7.01	39.3	47.61	23.5	16.35	53.0
21	8.05	38.0	6.85	39.3	47.41	24.0	15.88	53.9
31	7.86	38.0	6.67	39.4	47.21	24.3	15.40	54.2
April 10	7.67	37.6	6.50	39.7	47.01	24.4	14.92	54.0
20	7.49	37.0	6.35	40.1	46.82	24.1	14.46	53.3
30	7.35	36.0	6.22	40.6	46.67	24.3	14.03	52.0
Mai 10	7.23	34.8	6.12	41.3	46.54	23.8	13.64	50.3
20	7.14	33.4	6.05	42.1	46.46	23.3	13.31	48.2
30	7.09	31.7	6.02	43.0	46.43	22.8	13.04	45.6
Juni 9	7.08	29.8	6.02	44.1	46.44	22.1	12.85	42.8
19	7.12	27.8	6.07	45.2	46.50	21.5	12.72	39.7
29	7.19	25.7	6.15	46.4	46.60	20.8	12.67	36.3
Juli 9	7.30	23.4	6.28	47.7	46.76	20.1	12.70	32.6
19	7.45	21.2	6.44	48.9	46.95	19.5	12.81	29.2
29	7.63	19.2	6.62	50.0	47.18	18.9	12.99	26.0
Aug. 8	7.83	17.4	6.83	51.1	47.43	18.3	13.25	22.9
18	8.06	15.8	7.06	52.0	47.71	17.8	13.57	20.2
28	8.31	14.5	7.31	52.7	48.02	17.3	13.94	17.8
Sept. 7	8.57	13.5	7.58	53.2	48.35	16.8	14.37	16.0
17	8.85	13.0	7.86	53.4	48.69	16.4	14.83	14.7
27	9.14	12.9	8.15	53.4	49.04	16.0	15.32	14.0
Okt. 7	9.44	13.2	8.44	53.1	49.40	15.6	15.83	14.0
17	9.74	13.9	8.74	52.6	49.77	15.3	16.34	14.7
27	10.03	15.1	9.04	51.7	50.13	15.1	16.83	16.0
Nov. 6	10.31	16.7	9.33	50.7	50.49	15.0	17.29	17.9
16	10.58	18.6	9.61	49.5	50.83	15.0	17.71	20.4
26	10.83	20.7	9.87	48.2	51.15	15.1	18.07	23.3
Dez. 6	11.04	23.0	10.11	46.8	51.45	15.3	18.36	26.5
16	11.23	25.5	10.31	45.4	51.70	15.7	18.57	30.0
26	11.36	27.9	10.47	44.1	51.91	16.2	18.69	33.7
36	11.46	30.2	10.59	42.8	52.06	16.9	18.72	37.3
Mittl. Ort	8.20	26.9	6.99	44.1	47.56	17.9	15.49	36.4

1909	15 Lyncis. 4 ^m .6.		θ Canis maj. 4 ^m .I.		ε Canis maj. 1 ^m .5.		ζ Geminor. (3 ^m .8).	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	6 ^h 49 ^m	58° 32'	6 ^h 49 ^m	11° 55'	6 ^h 55 ^m	28° 50'	6 ^h 58 ^m	20° 42'
Jan. 0	24.89 ¹⁶	34.6 ²²	58.18 ⁸	26.3 ²¹	3.68 ⁷	50.6 ²⁸	43.02 ¹³	16.0 ¹
10	25.05 ¹⁷	36.8 ²²	58.26 ³	28.4 ¹⁸	3.75 ²	53.4 ²⁷	43.15 ⁷	15.9 ⁰
20	25.12 ²	39.0 ²¹	58.29 ¹	30.2 ¹⁷	3.77 ³	56.1 ²⁴	43.22 ²	15.9 ¹
30	25.10 ¹⁰	41.1 ²¹	58.28 ⁵	31.9 ¹⁴	3.74 ⁸	58.5 ²¹	43.24 ⁴	16.0 ²
Febr. 9	25.00 ¹⁸	43.2 ¹⁸	58.23 ¹⁰	33.3 ¹¹	3.66 ¹³	60.6 ¹⁸	43.20 ⁸	16.2 ³
19	24.82 ²⁵	45.0 ¹⁵	58.13 ¹⁴	34.4 ⁹	3.53 ¹⁷	62.4 ¹⁴	43.12 ¹²	16.5 ³
März 1	24.57 ³⁰	46.5 ¹²	57.99 ¹⁶	35.3 ⁶	3.36 ¹⁹	63.8 ¹⁰	43.00 ¹⁵	16.8 ³
11	24.27 ³³	47.7 ⁸	57.83 ¹⁷	35.9 ³	3.17 ²¹	64.8 ⁶	42.85 ¹⁷	17.1 ³
21	23.94 ³⁴	48.5 ⁴	57.66 ¹⁹	36.2 ⁰	2.96 ²²	65.4 ²	42.68 ¹⁷	17.4 ³
31	23.60 ³⁴	48.9 ⁰	57.47 ¹⁸	36.2 ³	2.74 ²¹	65.6 ²	42.51 ¹⁸	17.7 ²
April 10	23.26 ³²	48.9 ⁴	57.29 ¹⁷	35.9 ⁶	2.53 ²¹	65.4 ⁶	42.33 ¹⁶	17.9 ²
20	22.94 ²⁷	48.5 ⁸	57.12 ¹⁴	35.3 ⁸	2.32 ¹⁸	64.8 ¹⁰	42.17 ¹⁴	18.1 ²
30	22.67 ²³	47.7 ¹¹	56.98 ¹²	34.5 ¹⁰	2.14 ¹⁵	63.8 ¹⁴	42.03 ¹¹	18.3 ¹
Mai 10	22.44 ¹⁷	46.6 ¹⁴	56.86 ⁹	33.5 ¹³	1.99 ¹³	62.4 ¹⁷	41.92 ⁸	18.4 ¹
20	22.27 ¹⁰	45.2 ¹⁶	56.77 ⁵	32.2 ¹⁵	1.86 ⁸	60.7 ²⁰	41.84 ⁴	18.5 ¹
30	22.17 ²	43.6 ¹⁸	56.72 ¹	30.7 ¹⁶	1.78 ⁵	58.7 ²²	41.80 ⁰	18.6 ¹
Juni 9	22.15 ⁵	41.8 ¹⁹	56.71 ³	29.1 ¹⁸	1.73 ⁰	56.5 ²⁵	41.80 ⁵	18.7 ¹
19	22.20 ¹²	39.9 ²⁰	56.74 ⁶	27.3 ¹⁹	1.73 ⁴	54.0 ²⁶	41.85 ⁸	18.8 ¹
29	22.32 ²¹	37.9 ²²	56.80 ¹¹	25.4 ²¹	1.77 ⁸	51.4 ²⁹	41.93 ¹³	18.9 ¹
Juli 9	22.53 ²⁷	35.7 ¹⁹	56.91 ¹⁴	23.3 ²⁰	1.85 ¹²	48.5 ²⁶	42.06 ¹⁶	19.0 ¹
19	22.80 ³²	33.8 ¹⁸	57.05 ¹⁶	21.3 ¹⁸	1.97 ¹⁶	45.9 ²⁵	42.22 ¹⁹	19.1 ¹
29	23.12 ³⁸	32.0 ¹⁷	57.21 ²⁰	19.5 ¹⁷	2.13 ¹⁹	43.4 ²⁴	42.41 ²²	19.2 ⁰
Aug. 8	23.50 ⁴²	30.3 ¹⁵	57.41 ²²	17.8 ¹⁵	2.32 ²²	41.0 ²¹	42.63 ²⁴	19.2 ⁰
18	23.92 ⁴⁶	28.8 ¹⁴	57.63 ²⁴	16.3 ¹³	2.54 ²⁴	38.9 ¹⁸	42.87 ²⁶	19.2 ⁰
28	24.38 ⁴⁹	27.4 ¹²	57.87 ²⁶	15.0 ⁹	2.78 ²⁷	37.1 ¹³	43.13 ²⁸	19.2 ²
Sept. 7	24.87 ⁵¹	26.2 ⁹	58.13 ²⁷	14.1 ⁵	3.05 ²⁹	35.8 ¹⁰	43.41 ³⁰	19.0 ²
17	25.38 ⁵⁴	25.3 ⁶	58.40 ²⁹	13.6 ²	3.34 ³⁰	34.8 ⁴	43.71 ³¹	18.8 ³
27	25.92 ⁵⁶	24.7 ⁴	58.69 ²⁹	13.4 ²	3.64 ³²	34.4 ²	44.02 ³²	18.5 ⁴
Okt. 7	26.48 ⁵⁵	24.3 ¹	58.98 ³⁰	13.6 ⁷	3.96 ³¹	34.6 ⁶	44.34 ³³	18.1 ⁶
17	27.03 ⁵⁶	24.2 ²	59.28 ²⁹	14.3 ¹⁰	4.27 ³²	35.2 ¹²	44.67 ³²	17.5 ⁵
27	27.59 ⁵⁴	24.4 ⁵	59.57 ²⁹	15.3 ¹⁴	4.59 ³⁰	36.4 ¹⁷	44.99 ³³	17.0 ⁷
Nov. 6	28.13 ⁵¹	24.9 ⁸	59.86 ²⁸	16.7 ¹⁷	4.89 ²⁹	38.1 ²¹	45.32 ³¹	16.3 ⁶
16	28.64 ⁴⁸	25.7 ¹²	60.14 ²⁶	18.4 ²⁰	5.18 ²⁷	40.2 ²⁴	45.63 ³⁰	15.7 ⁶
26	29.12 ⁴³	26.9 ¹⁴	60.40 ²³	20.4 ²⁰	5.45 ²³	42.6 ²⁷	45.93 ²⁷	15.1 ⁵
Dez. 6	29.55 ³⁶	28.3 ¹⁷	60.63 ²⁰	22.4 ²²	5.68 ²⁰	45.3 ²⁹	46.20 ²⁴	14.6 ⁵
16	29.91 ²⁹	30.0 ¹⁹	60.83 ¹⁶	24.6 ²²	5.88 ¹⁵	48.2 ²⁹	46.44 ¹⁹	14.1 ⁴
26	30.20 ²²	31.9 ²¹	60.99 ¹⁰	26.8 ²¹	6.03 ¹⁰	51.1 ²⁹	46.63 ¹⁵	13.7 ²
36	30.42	34.0	61.09	28.9	6.13	54.0	46.78	13.5
Mittl. Ort	24.01	34.6	57.73	27.0	2.93	52.1	42.76	16.0
	265,		266,		268,		269,	

SCHEINBARE STERNÖRTER.

1909	α Canis maj.*) 1 ^m		18 Monocerot. 4 ^m .7.		θ Geminorum. 3 ^m .4.		α Pictoris. 3 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 ^h 41 ^m	16° 35'	6 ^h 43 ^m	2° 30'	6 ^h 46 ^m	34° 4'	6 ^h 47 ^m	61° 56'
Jan. 0	8.71	27.0	7.31	44.3	47.88	17.9	18.15	34.5
10	8.78	29.3	7.40	43.1	48.01	18.6	18.14	38.0
20	8.79	31.4	7.44	42.0	48.07	19.5	18.02	41.4
30	8.76	33.2	7.43	41.1	48.08	20.3	17.84	44.6
Febr. 9	8.68	34.8	7.38	40.4	48.02	21.2	17.55	47.4
19	8.56	36.1	7.29	39.9	47.92	22.1	17.20	49.7
März 1	8.41	37.0	7.16	39.5	47.78	22.8	16.79	51.6
11	8.24	37.7	7.01	39.3	47.61	23.5	16.35	53.0
21	8.05	38.0	6.85	39.3	47.41	24.0	15.88	53.9
31	7.86	38.0	6.67	39.4	47.21	24.3	15.40	54.2
April 10	7.67	37.6	6.50	39.7	47.01	24.4	14.92	54.0
20	7.49	37.0	6.35	40.1	46.82	24.3	14.46	53.3
30	7.35	36.0	6.22	40.6	46.67	24.1	14.03	52.0
Mai 10	7.23	34.8	6.12	41.3	46.54	23.8	13.64	50.3
20	7.14	33.4	6.05	42.1	46.46	23.3	13.31	48.2
30	7.09	31.7	6.02	43.0	46.43	22.8	13.04	45.6
Juni 9	7.08	29.8	6.02	44.1	46.44	22.1	12.85	42.8
19	7.12	27.8	6.07	45.2	46.50	21.5	12.72	39.7
29	7.19	25.7	6.15	46.4	46.60	20.8	12.67	36.3
Juli 9	7.30	23.4	6.28	47.7	46.76	20.1	12.70	32.6
19	7.45	21.2	6.44	48.9	46.95	19.5	12.81	29.2
29	7.63	19.2	6.62	50.0	47.18	18.9	12.99	26.0
Aug. 8	7.83	17.4	6.83	51.1	47.43	18.3	13.25	22.9
18	8.06	15.8	7.06	52.0	47.71	17.8	13.57	20.2
28	8.31	14.5	7.31	52.7	48.02	17.3	13.94	17.8
Sept. 7	8.57	13.5	7.58	53.2	48.35	16.8	14.37	16.0
17	8.85	13.0	7.86	53.4	48.69	16.4	14.83	14.7
27	9.14	12.9	8.15	53.4	49.04	16.0	15.32	14.0
Okt. 7	9.44	13.2	8.44	53.1	49.40	15.6	15.83	14.0
17	9.74	13.9	8.74	52.6	49.77	15.3	16.34	14.7
27	10.03	15.1	9.04	51.7	50.13	15.1	16.83	16.0
Nov. 6	10.31	16.7	9.33	50.7	50.49	15.0	17.29	17.9
16	10.58	18.6	9.61	49.5	50.83	15.0	17.71	20.4
26	10.83	20.7	9.87	48.2	51.15	15.1	18.07	23.3
Dez. 6	11.04	23.0	10.11	46.8	51.45	15.3	18.36	26.5
16	11.23	25.5	10.31	45.4	51.70	15.7	18.57	30.0
26	11.36	27.9	10.47	44.1	51.91	16.2	18.69	33.7
36	11.46	30.2	10.59	42.8	52.06	16.9	18.72	37.3
Mittl. Ort	8.20	26.9	6.99	44.1	47.56	17.9	15.49	36.4

257)

258)

261)

262)

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.



1909	15 Lyncis. 4 ^m .6.		θ Canis maj. 4 ^m .I.		ε Canis maj. 1 ^m .5.		ζ Geminor. (3 ^m .8).	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	6 ^h 49 ^m	58° 32'	6 ^h 49 ^m	11° 55'	6 ^h 55 ^m	28° 50'	6 ^h 58 ^m	20° 42'
Jan. 0	24.89 ¹⁶	34.6 ²²	58.18 ⁸	26.3 ²¹	3.68 ⁷	50.6 ²⁸	43.02 ¹³	16.0 ¹
10	25.05 ¹⁷	36.8 ²²	58.26 ³	28.4 ¹⁸	3.75 ²	53.4 ²⁷	43.15 ⁷	15.9 ⁰
20	25.12 ²	39.0 ²¹	58.29 ¹	30.2 ¹⁷	3.77 ³	56.1 ²⁴	43.22 ²	15.9 ¹
30	25.10 ¹⁰	41.1 ²¹	58.28 ⁵	31.9 ¹⁴	3.74 ⁸	58.5 ²¹	43.24 ⁴	16.0 ²
Febr. 9	25.00 ¹⁸	43.2 ¹⁸	58.23 ¹⁰	33.3 ¹¹	3.66 ¹³	60.6 ¹⁸	43.20 ⁸	16.2 ³
19	24.82 ²⁵	45.0 ¹⁵	58.13 ¹⁴	34.4 ⁹	3.53 ¹⁷	62.4 ¹⁴	43.12 ¹²	16.5 ³
März 1	24.57 ³⁰	46.5 ¹²	57.99 ¹⁶	35.3 ⁶	3.36 ¹⁹	63.8 ¹⁰	43.00 ¹⁵	16.8 ³
11	24.27 ³³	47.7 ⁸	57.83 ¹⁷	35.9 ³	3.17 ²¹	64.8 ⁶	42.85 ¹⁷	17.1 ³
21	23.94 ³⁴	48.5 ⁴	57.66 ¹⁹	36.2 ⁰	2.96 ²²	65.4 ²	42.68 ¹⁷	17.4 ³
31	23.60 ³⁴	48.9 ⁰	57.47 ¹⁸	36.2 ³	2.74 ²¹	65.6 ²	42.51 ¹⁸	17.7 ²
April 10	23.26 ³²	48.9 ⁴	57.29 ¹⁷	35.9 ⁶	2.53 ²¹	65.4 ⁶	42.33 ¹⁶	17.9 ²
20	22.94 ²⁷	48.5 ⁸	57.12 ¹⁴	35.3 ⁸	2.32 ¹⁸	64.8 ¹⁰	42.17 ¹⁴	18.1 ²
30	22.67 ²³	47.7 ¹¹	56.98 ¹²	34.5 ¹⁰	2.14 ¹⁵	63.8 ¹⁴	42.03 ¹¹	18.3 ¹
Mai 10	22.44 ¹⁷	46.6 ¹⁴	56.86 ⁹	33.5 ¹³	1.99 ¹³	62.4 ¹⁷	41.92 ⁸	18.4 ¹
20	22.27 ¹⁰	45.2 ¹⁶	56.77 ⁵	32.2 ¹⁵	1.86 ⁸	60.7 ²⁰	41.84 ⁴	18.5 ¹
30	22.17 ⁵	43.6 ¹⁸	56.72 ¹	30.7 ¹⁶	1.78 ⁵	58.7 ²²	41.80 ⁰	18.6 ¹
Juni 9	22.15 ²	41.8 ¹⁹	56.71 ³	29.1 ¹⁸	1.73 ⁰	56.5 ²⁵	41.80 ⁵	18.7 ¹
19	22.20 ¹²	39.9 ²⁰	56.74 ⁶	27.3 ¹⁹	1.73 ⁴	54.0 ²⁶	41.85 ⁸	18.8 ¹
29	22.32 ²¹	37.9 ²²	56.80 ¹¹	25.4 ²¹	1.77 ⁸	51.4 ²⁹	41.93 ¹³	18.9 ¹
Juli 9	22.53 ²⁷	35.7 ¹⁹	56.91 ¹⁴	23.3 ²⁰	1.85 ¹²	48.5 ²⁶	42.06 ¹⁶	19.0 ¹
19	22.80 ³²	33.8 ¹⁸	57.05 ¹⁶	21.3 ¹⁸	1.97 ¹⁶	45.9 ²⁵	42.22 ¹⁹	19.1 ¹
29	23.12 ³⁸	32.0 ¹⁷	57.21 ²⁰	19.5 ¹⁷	2.13 ¹⁹	43.4 ²⁴	42.41 ²²	19.2 ⁰
Aug. 8	23.50 ⁴²	30.3 ¹⁵	57.41 ²²	17.8 ¹⁵	2.32 ²²	41.0 ²¹	42.63 ²⁴	19.2 ⁰
18	23.92 ⁴⁶	28.8 ¹⁴	57.63 ²⁴	16.3 ¹³	2.54 ²⁴	38.9 ¹⁸	42.87 ²⁶	19.2 ⁰
28	24.38 ⁴⁹	27.4 ¹²	57.87 ²⁶	15.0 ⁹	2.78 ²⁷	37.1 ¹³	43.13 ²⁸	19.2 ²
Sept. 7	24.87 ⁵¹	26.2 ⁹	58.13 ²⁷	14.1 ⁵	3.05 ²⁹	35.8 ¹⁰	43.41 ³⁰	19.0 ²
17	25.38 ⁵⁴	25.3 ⁶	58.40 ²⁹	13.6 ²	3.34 ³⁰	34.8 ⁴	43.71 ³¹	18.8 ³
27	25.92 ⁵⁶	24.7 ⁴	58.69 ²⁹	13.4 ²	3.64 ³²	34.4 ²	44.02 ³²	18.5 ⁴
Okt. 7	26.48 ⁵⁵	24.3 ¹	58.98 ³⁰	13.6 ⁷	3.96 ³¹	34.6 ⁶	44.34 ³³	18.1 ⁶
17	27.03 ⁵⁶	24.2 ²	59.28 ²⁹	14.3 ¹⁰	4.27 ³²	35.2 ¹²	44.67 ³²	17.5 ⁵
27	27.59 ⁵⁴	24.4 ⁵	59.57 ²⁹	15.3 ¹⁴	4.59 ³⁰	36.4 ¹⁷	44.99 ³³	17.0 ⁷
Nov. 6	28.13 ⁵¹	24.9 ⁸	59.86 ²⁸	16.7 ¹⁷	4.89 ²⁹	38.1 ²¹	45.32 ³¹	16.3 ⁶
16	28.64 ⁴⁸	25.7 ¹²	60.14 ²⁶	18.4 ²⁰	5.18 ²⁷	40.2 ²⁴	45.63 ³⁰	15.7 ⁶
26	29.12 ⁴³	26.9 ¹⁴	60.40 ²³	20.4 ²⁰	5.45 ²³	42.6 ²⁷	45.93 ²⁷	15.1 ⁵
Dez. 6	29.55 ³⁶	28.3 ¹⁷	60.63 ²⁰	22.4 ²²	5.68 ²⁰	45.3 ²⁹	46.20 ²⁴	14.6 ⁵
16	29.91 ²⁹	30.0 ¹⁹	60.83 ¹⁶	24.6 ²²	5.88 ¹⁵	48.2 ²⁹	46.44 ¹⁹	14.1 ⁴
26	30.20 ²²	31.9 ²¹	60.99 ¹⁰	26.8 ²¹	6.03 ¹⁰	51.1 ²⁹	46.63 ¹⁵	13.7 ²
36	30.42	34.0	61.09	28.9	6.13	54.0	46.78	13.5
Min. Ort	24.01	34.6	57.73	27.0	2.93	52.1	42.76	16.0
	265)		266)		268)		269)	

1909	γ Canis maj. 4 ^m .o.		δ Canis maj. 1 ^m .9.		63 Aurigae. 5 ^m .o.		λ Geminor. 3 ^m .6.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +
	6 ^b 59 ^m	15° 29'	7 ^h 4 ^m	26° 14'	7 ^h 5 ^m	39° 28'	7 ^h 12 ^m	16° 42'
Jan. 0	39.00	52.8	42.13	51.8	24.27	10.5	52.11	18.6
10	39.09	52.8	42.21	51.8	24.42	10.5	52.24	18.1
20	39.13	52.8	42.25	51.8	24.51	10.5	52.32	17.8
30	39.13	52.8	42.23	51.8	24.53	10.5	52.35	17.7
Febr. 9	39.07	52.8	42.16	51.8	24.50	10.5	52.33	17.7
19	38.98	52.8	42.04	51.8	24.41	10.5	52.26	17.8
März 1	38.84	52.8	41.89	51.8	24.26	10.5	52.16	18.0
11	38.68	52.8	41.71	51.8	24.08	10.5	52.02	18.2
21	38.50	52.8	41.51	51.8	23.88	10.5	51.86	18.5
31	38.31	52.8	41.30	51.8	23.66	10.5	51.69	18.7
April 10	38.13	52.8	41.10	51.8	23.45	10.5	51.52	19.0
20	37.95	52.8	40.90	51.8	23.25	10.5	51.36	19.3
30	37.80	52.8	40.72	51.8	23.07	10.5	51.21	19.6
Mai 10	37.67	52.8	40.57	51.8	22.92	10.5	51.09	19.8
20	37.58	52.8	40.44	51.8	22.82	10.5	51.01	20.1
30	37.51	52.8	40.36	51.8	22.76	10.5	50.96	20.4
Juni 9	37.49	52.8	40.31	51.8	22.75	10.5	50.95	20.7
19	37.50	52.8	40.31	51.8	22.79	10.5	50.98	20.9
29	37.55	52.8	40.34	51.8	22.87	10.5	51.05	21.2
Juli 9	37.65	52.8	40.42	51.8	23.02	10.5	51.16	21.6
19	37.78	52.8	40.53	51.8	23.20	10.5	51.30	21.9
29	37.93	52.8	40.68	51.8	23.42	10.5	51.47	22.1
Aug. 8	38.12	52.8	40.86	51.8	23.67	10.5	51.67	22.3
18	38.33	52.8	41.07	51.8	23.95	10.5	51.90	22.4
28	38.56	52.8	41.30	51.8	24.26	10.5	52.14	22.5
Sept. 7	38.82	52.8	41.56	51.8	24.60	10.5	52.41	22.4
17	39.09	52.8	41.84	51.8	24.95	10.5	52.69	22.2
27	39.38	52.8	42.14	51.8	25.32	10.5	52.99	21.8
Okt. 7	39.67	52.8	42.44	51.8	25.71	10.5	53.30	21.3
17	39.97	52.8	42.76	51.8	26.10	10.5	53.62	20.7
27	40.27	52.8	43.07	51.8	26.49	10.5	53.94	19.9
Nov. 6	40.56	52.8	43.37	51.8	26.88	10.5	54.26	19.1
16	40.85	52.8	43.67	51.8	27.26	10.5	54.57	18.3
26	41.11	52.8	43.94	51.8	27.62	10.5	54.87	17.4
Dez. 6	41.35	52.8	44.18	51.8	27.94	10.5	55.15	16.6
16	41.55	52.8	44.39	51.8	28.23	10.5	55.39	15.8
26	41.72	52.8	44.56	51.8	28.47	10.5	55.60	15.2
36	41.84	52.8	44.67	51.8	28.66	10.5	55.76	14.6
Mittl. Ort	38.51	54.1	41.44	53.9	23.89	11.0	51.85	18.4

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1909	π Argus. 2 ^m .5.		δ Geminorum. 3 ^m .3.		ιγ Lyncis seq. 5 ^m .5.		δ Volantis. 4 ^m .0.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. —
	7 ^h 13 ^m	36° 55'	7 ^h 14 ^m	22° 8'	7 ^h 15 ^m	55° 27'	7 ^h 16 ^m	67° 47'
Jan. 0	56.66	9 58.0	41.63	61.9	27.53	12.1	56.31	21.1
10	56.75	2 61.2	41.77	61.8	27.73	11 14.0	56.33	24.8
20	56.77	3 64.2	41.86	61.9	27.84	4 16.0	56.24	28.4
30	56.74	3 67.0	41.90	62.1	27.88	4 18.1	56.03	31.8
Febr. 9	56.65	9 69.6	41.88	62.3	27.82	6 20.1	55.72	34.9
19	56.51	14 71.8	41.81	62.7	27.70	12 21.9	55.32	37.7
März 1	56.34	17 73.6	41.70	63.1	27.51	19 23.6	54.85	40.0
11	56.12	22 74.9	41.56	63.5	27.26	25 25.0	54.31	41.9
21	55.89	23 75.8	41.40	63.9	26.97	29 26.0	53.73	43.2
31	55.65	24 76.3	41.22	64.3	26.67	30 26.7	53.12	44.1
April 10	55.40	25 76.3	41.04	64.6	26.36	31 27.0	52.51	44.4
20	55.16	24 75.9	40.88	64.8	26.06	30 26.9	51.91	44.1
30	54.94	22 75.0	40.73	65.0	25.80	23 26.5	51.34	43.4
Mai 10	54.75	19 73.7	40.61	65.1	25.57	17 25.7	50.80	42.1
20	54.59	12 72.0	40.52	65.2	25.40	12 24.6	50.33	40.3
30	54.47	9 70.0	40.47	65.3	25.28	5 23.2	49.91	38.2
Juni 9	54.38	4 67.7	40.46	65.3	25.23	1 21.6	49.58	35.6
19	54.34	1 65.1	40.49	65.3	25.24	7 19.9	49.32	32.7
29	54.35	4 62.3	40.55	65.2	25.31	14 18.1	49.16	29.6
Juli 9	54.39	10 59.5	40.66	65.2	25.45	21 16.2	49.09	26.3
19	54.49	14 56.4	40.82	65.2	25.68	26 14.1	49.12	22.6
29	54.63	17 53.6	40.99	65.1	25.94	31 12.2	49.26	19.3
Aug. 8	54.80	21 50.9	41.20	65.0	26.25	36 10.4	49.48	16.1
18	55.01	24 48.5	41.43	64.9	26.61	39 8.7	49.79	13.2
28	55.25	27 46.5	41.69	64.6	27.00	43 7.2	50.19	10.6
Sept. 7	55.52	30 44.8	41.96	64.3	27.43	46 5.8	50.65	8.4
17	55.82	32 43.7	42.26	63.9	27.89	49 4.6	51.18	6.8
27	56.14	33 43.0	42.56	63.5	28.38	51 3.6	51.75	5.8
Okt. 7	56.47	34 42.9	42.88	62.9	28.89	51 2.8	52.36	5.4
17	56.81	33 43.5	43.21	62.3	29.40	52 2.4	52.98	5.7
27	57.14	33 44.6	43.54	61.6	29.92	52 2.2	53.59	6.6
Nov. 6	57.47	32 46.2	43.87	60.9	30.44	50 2.2	54.18	8.2
16	57.79	29 48.3	44.20	60.2	30.94	47 2.6	54.72	10.4
26	58.08	26 50.9	44.51	59.6	31.41	43 3.3	55.19	13.0
Dez. 6	58.34	22 53.7	44.80	59.0	31.84	43 4.4	55.59	16.2
16	58.56	17 56.8	45.05	58.5	32.22	43 5.7	55.89	19.6
26	58.73	12 60.0	45.26	58.2	32.54	42 7.3	56.08	23.2
36	58.85	6 63.3	45.44	58.0	32.78	41 9.1	56.16	26.9
Mittl. Ort	55.69	61.3	41.38	62.0	26.78	13.3	52.78	26.4
	278,		279,		280,		281,	

1909	♋ Geminorum. 3 ^m .8.		♌ Gr. 1308. 5 ^m .8.		♍ β Canis min. 2 ^m .9.		♎ ρ Geminor. 4 ^m .4.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	7 ^h 20 ^m	27° 58'	7 ^h 21 ^m	68° 38'	7 ^h 22 ^m	8° 28'	7 ^h 23 ^m	31° 57'
Jan. 0	4.87 ¹⁵	46.1 ³	26.78 ²⁹	67.7 ²⁶	13.26 ¹⁴	24.4 ⁹	15.90 ¹⁶	57.6 ⁵
10	5.02 ¹⁰	46.4 ⁴	27.07 ¹⁵	70.3 ²⁶	13.40 ⁸	23.5 ⁸	16.06 ¹¹	58.1 ⁷
20	5.12 ⁴	46.8 ⁵	27.22 ²	72.9 ²⁷	13.48 ³	22.7 ⁷	16.17 ⁴	58.8 ⁷
30	5.16 ¹	47.3 ⁶	27.24 ¹⁰	75.6 ²⁵	13.51 ¹	22.0 ⁵	16.21 ¹	59.5 ⁹
Febr. 9	5.15 ⁷	47.9 ⁷	27.14 ²²	78.1 ²³	13.50 ⁶	21.5 ³	16.20 ⁶	60.4 ⁸
19	5.08 ¹¹	48.6 ⁷	26.92 ³²	80.4 ²¹	13.44 ¹⁰	21.2 ²	16.14 ¹²	61.2 ⁹
März 1	4.97 ¹⁵	49.3 ⁶	26.60 ⁴⁰	82.5 ¹⁷	13.34 ¹³	21.0 ⁰	16.02 ¹⁴	62.1 ⁸
11	4.82 ¹⁷	49.9 ⁵	26.20 ⁴⁶	84.2 ¹³	13.21 ¹⁵	21.0 ⁰	15.88 ¹⁸	62.9 ⁶
21	4.65 ¹⁸	50.4 ⁵	25.74 ⁵⁰	85.5 ⁹	13.06 ¹⁷	21.0 ²	15.70 ²⁰	63.5 ⁶
31	4.47 ¹⁸	50.9 ³	25.24 ⁵⁰	86.4 ³	12.89 ¹⁶	21.2 ³	15.50 ¹⁸	64.1 ³
April 10	4.29 ¹⁸	51.2 ²	24.74 ⁴⁹	86.7 ¹	12.73 ¹⁶	21.5 ³	15.32 ¹⁸	64.4 ²
20	4.11 ¹⁶	51.4 ¹	24.25 ⁴⁶	86.6 ⁷	12.57 ¹⁵	21.8 ⁴	15.14 ¹⁷	64.6 ¹
30	3.95 ¹³	51.5 ⁰	23.79 ⁴⁰	85.9 ¹¹	12.42 ¹²	22.2 ⁵	14.97 ¹⁴	64.7 ¹
Mai 10	3.82 ⁹	51.5 ¹	23.39 ³²	84.8 ¹⁵	12.30 ⁸	22.7 ⁶	14.83 ¹⁰	64.6 ³
20	3.73 ⁶	51.4 ²	23.07 ²³	83.3 ¹⁸	12.22 ⁶	23.3 ⁶	14.73 ⁶	64.3 ³
30	3.67 ²	51.2 ³	22.84 ¹⁴	81.5 ²¹	12.16 ²	23.9 ⁸	14.67 ³	64.0 ⁵
Juni 9	3.65 ³	50.9 ³	22.70 ⁵	79.4 ²²	12.14 ²	24.5 ⁶	14.64 ²	63.5 ⁵
19	3.68 ⁶	50.6 ³	22.65 ⁶	77.2 ²⁴	12.16 ⁵	25.3 ⁷	14.66 ⁷	63.0 ⁶
29	3.74 ¹⁰	50.2 ⁴	22.71 ¹⁶	74.8 ²⁶	12.21 ⁹	26.0 ⁷	14.73 ¹⁰	62.4 ⁶
Juli 9	3.84 ¹⁶	49.8 ⁴	22.87 ²⁷	72.2 ²⁷	12.30 ¹³	26.7 ⁸	14.83 ¹⁶	61.8 ⁻
19	4.00 ¹⁸	49.4 ⁴	23.14 ³⁵	69.5 ²⁵	12.43 ¹⁶	27.5 ⁷	14.99 ¹⁹	61.1 ⁷
29	4.18 ²¹	49.0 ⁵	23.49 ⁴⁴	67.0 ²⁴	12.59 ¹⁹	28.2 ⁶	15.18 ²¹	60.4 ⁷
Aug. 8	4.39 ²⁴	48.5 ⁵	23.93 ⁵¹	64.6 ²²	12.78 ²⁰	28.8 ⁵	15.39 ²⁵	59.7 ⁷
18	4.63 ²⁶	48.0 ⁵	24.44 ⁵⁷	62.4 ²⁰	12.98 ²³	29.3 ⁴	15.64 ²⁷	59.0 ⁷
28	4.89 ²⁸	47.5 ⁵	25.01 ⁶⁴	60.4 ¹⁸	13.21 ²⁴	29.7 ¹	15.91 ²⁹	58.3 ⁷
Sept. 7	5.17 ³¹	47.0 ⁶	25.65 ⁶⁹	58.6 ¹⁵	13.45 ²⁷	29.8 ⁰	16.20 ³²	57.6 ⁷
17	5.48 ³²	46.4 ⁶	26.34 ⁷²	57.1 ¹²	13.72 ²⁹	29.8 ²	16.52 ³³	56.9 ⁷
27	5.80 ³³	45.8 ⁷	27.06 ⁷⁶	55.9 ⁹	14.01 ²⁹	29.6 ⁵	16.85 ³⁵	56.2 ⁷
Okt. 7	6.13 ³⁵	45.1 ⁷	27.82 ⁷⁸	55.0 ⁵	14.30 ³¹	29.1 ⁶	17.20 ³⁵	55.5 ⁷
17	6.48 ³⁵	44.4 ⁶	28.60 ⁷⁸	54.5 ¹	14.61 ³¹	28.5 ⁹	17.55 ³⁷	54.8 ⁶
27	6.83 ³⁵	43.8 ⁶	29.38 ⁷⁶	54.4 ³	14.92 ³¹	27.6 ¹¹	17.92 ³⁶	54.2 ⁵
Nov. 6	7.18 ³⁴	43.2 ⁶	30.14 ⁷⁵	54.7 ⁷	15.23 ³⁰	26.5 ¹¹	18.28 ³⁵	53.7 ⁵
16	7.52 ³³	42.6 ⁴	30.89 ⁷⁰	55.4 ¹¹	15.53 ²⁹	25.4 ¹²	18.63 ³⁴	53.2 ³
26	7.85 ³⁰	42.2 ³	31.59 ⁶³	56.5 ¹⁵	15.82 ²⁷	24.2 ¹³	18.97 ³²	52.9 ¹
Dez. 6	8.15 ²⁷	41.9 ²	32.22 ⁵⁶	58.0 ¹⁹	16.09 ²⁴	22.9 ¹²	19.29 ²⁹	52.8 ⁰
16	8.42 ²³	41.7 ⁰	32.78 ⁴⁶	59.9 ²¹	16.33 ²¹	21.7 ¹²	19.58 ²⁴	52.8 ²
26	8.65 ¹⁸	41.7 ¹	33.24 ³⁴	62.0 ²⁴	16.54 ¹⁶	20.5 ¹¹	19.82 ¹⁹	53.0 ⁴
36	8.83	41.8	33.58	64.4	16.70	19.4	20.01	53.4
Mittl. Ort	4.60	46.5	24.18	69.3	13.00	23.7	15.61	58.3

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SCHEINBARE STERNÖRTER.

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1909	α Gemin. 1 ^m .8, 2 ^m .8.		25 Monocerot. 5 ^m .3.		α Canis min.*) 0 ^m .5.		24 Lyncis. 5 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	7 ^h 28 ^m	32° 5'	7 ^h 32 ^m	3° 54'	7 ^h 34 ^m	5° 27'	7 ^h 35 ^m	58° 55'
Jan. 0	47.89 ₁₆	19.6 ₅	45.59 ₁₃	24.4 ₁₇	32.57 ₁₅	32.0 ₁₂	19.66 ₂₅	24.6 ₂₀
10	48.05 ₁₂	20.1 ₆	45.72 ₈	26.1 ₁₆	32.72 ₉	30.8 ₁₁	19.91 ₁₆	26.6 ₂₂
20	48.17 ₅	20.7 ₈	45.80 ₄	27.7 ₁₃	32.81 ₄	29.7 ₉	20.07 ₆	28.8 ₂₂
30	48.22 ₀	21.5 ₉	45.84 ₂	29.0 ₁₂	32.85 ₁	28.8 ₇	20.13 ₃	31.0 ₂₂
Febr. 9	48.22 ₆	22.4 ₈	45.82 ₆	30.2 ₁₀	32.84 ₅	28.1 ₅	20.10 ₁₁	33.2 ₂₁
19	48.16 ₁₁	23.2 ₉	45.76 ₁₀	31.2 ₇	32.79 ₉	27.6 ₃	19.99 ₁₉	35.3 ₁₉
März 1	48.05 ₁₄	24.1 ₈	45.66 ₁₃	31.9 ₅	32.70 ₁₃	27.3 ₂	19.80 ₂₅	37.2 ₁₆
11	47.91 ₁₇	24.9 ₇	45.53 ₁₅	32.4 ₂	32.57 ₁₅	27.1 ₀	19.55 ₃₀	38.8 ₁₃
21	47.74 ₁₉	25.6 ₆	45.38 ₁₇	32.6 ₁	32.42 ₁₆	27.1 ₁	19.25 ₃₃	40.1 ₁₀
31	47.55 ₂₀	26.2 ₄	45.21 ₁₇	32.7 ₂	32.26 ₁₇	27.2 ₂	18.92 ₃₄	41.1 ₅
April 10	47.35 ₁₈	26.6 ₂	45.04 ₁₇	32.5 ₃	32.09 ₁₆	27.4 ₃	18.58 ₃₄	41.6 ₁
20	47.17 ₁₇	26.8 ₁	44.87 ₁₅	32.2 ₅	31.93 ₁₄	27.7 ₄	18.24 ₃₀	41.7 ₃
30	47.00 ₁₄	26.9 ₁	44.72 ₁₃	31.7 ₇	31.79 ₁₂	28.1 ₆	17.94 ₂₇	41.4 ₇
Mai 10	46.86 ₁₁	26.8 ₂	44.59 ₁₀	31.0 ₉	31.67 ₁₀	28.7 ₆	17.67 ₂₂	40.7 ₁₁
20	46.75 ₇	26.6 ₄	44.49 ₇	30.1 ₁₁	31.57 ₇	29.3 ₆	17.45 ₁₆	39.6 ₁₄
30	46.68 ₃	26.2 ₄	44.42 ₃	29.0 ₁₁	31.50 ₃	29.9 ₈	17.29 ₁₀	38.2 ₁₆
Juni 9	46.65 ₂	25.8 ₆	44.39 ₀	27.9 ₁₃	31.47 ₁	30.7 ₈	17.19 ₃	36.6 ₁₈
19	46.67 ₅	25.2 ₆	44.39 ₃	26.6 ₁₄	31.48 ₃	31.5 ₈	17.16 ₄	34.8 ₂₀
29	46.72 ₁₀	24.6 ₆	44.42 ₇	25.2 ₁₄	31.51 ₈	32.3 ₉	17.20 ₁₁	32.8 ₂₁
Juli 9	46.82 ₁₃	24.0 ₈	44.49 ₁₄	23.8 ₁₅	31.59 ₁₁	33.2 ₉	17.31 ₂₀	30.7 ₂₄
19	46.97 ₁₇	23.2 ₇	44.60 ₁₄	22.3 ₁₃	31.70 ₁₄	34.1 ₈	17.51 ₂₅	28.3 ₂₁
29	47.14 ₂₁	22.5 ₇	44.74 ₁₆	21.0 ₁₃	31.84 ₁₇	34.9 ₇	17.76 ₃₀	26.2 ₂₁
Aug. 8	47.35 ₂₄	21.8 ₈	44.90 ₁₉	19.7 ₁₀	32.01 ₁₉	35.6 ₆	18.06 ₃₆	24.1 ₂₀
18	47.59 ₂₆	21.0 ₇	45.09 ₂₁	18.7 ₉	32.20 ₂₂	36.2 ₄	18.42 ₄₀	22.1 ₁₉
28	47.85 ₂₉	20.3 ₈	45.30 ₂₄	17.8 ₆	32.42 ₂₄	36.6 ₂	18.82 ₄₄	20.2 ₁₇
Sept. 7	48.14 ₃₁	19.5 ₇	45.54 ₂₆	17.2 ₄	32.66 ₂₅	36.8 ₀	19.26 ₄₉	18.5 ₁₅
17	48.45 ₃₃	18.8 ₈	45.80 ₂₇	16.8 ₀	32.91 ₂₈	36.8 ₂	19.75 ₅₁	17.0 ₁₃
27	48.78 ₃₄	18.0 ₈	46.07 ₂₉	16.8 ₃	33.19 ₂₉	36.6 ₅	20.26 ₅₄	15.7 ₁₀
Okt. 7	49.12 ₃₆	17.2 ₈	46.36 ₃₀	17.1 ₆	33.48 ₃₀	36.1 ₇	20.80 ₅₆	14.7 ₈
17	49.48 ₃₆	16.4 ₆	46.66 ₃₁	17.7 ₁₀	33.78 ₃₁	35.4 ₁₀	21.36 ₅₇	13.9 ₅
27	49.84 ₃₇	15.8 ₆	46.97 ₃₀	18.7 ₁₂	34.09 ₃₁	34.4 ₁₂	21.93 ₅₆	13.4 ₁
Nov. 6	50.21 ₃₆	15.2 ₅	47.27 ₃₀	19.9 ₁₆	34.40 ₃₀	33.2 ₁₃	22.49 ₅₆	13.3 ₂
16	50.57 ₃₄	14.7 ₄	47.57 ₂₉	21.5 ₁₇	34.70 ₂₉	31.9 ₁₄	23.05 ₅₃	13.5 ₆
26	50.91 ₃₂	14.3 ₂	47.86 ₂₇	23.2 ₁₈	34.99 ₂₈	30.5 ₁₅	23.58 ₄₉	14.1 ₁₀
Dez. 6	51.23 ₃₀	14.1 ₀	48.13 ₂₄	25.0 ₁₉	35.27 ₂₄	29.0 ₁₄	24.07 ₄₄	15.1 ₁₃
16	51.53 ₂₅	14.1 ₂	48.37 ₂₀	26.9 ₁₈	35.51 ₂₁	27.6 ₁₄	24.51 ₃₇	16.4 ₁₆
26	51.78 ₂₀	14.3 ₄	48.57 ₁₆	28.7 ₁₈	35.72 ₁₇	26.2 ₁₄	24.88 ₃₀	18.0 ₁₉
36	51.98	14.7	48.73	30.5	35.89	24.8	25.18	19.9
MITL. ORT	47.60	20.4	45.25	26.2	32.32	30.9	18.79	26.8
	287)		289)		291)		292)	

*) Die Angaben für α Canis min. beziehen sich hier auf den Ort des sichtbaren Sterns.

1909	α Geminorum. 3 ^m .4.		β Geminorum. 1 ^m .1.		π Geminorum. 5 ^m .5.		ζ Volantis. 3 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	7 ^h 38 ^m 24 ^s 36'		7 ^h 39 ^m 28 ^s 14'		7 ^h 41 ^m 33 ^s 38'		7 ^h 42 ^m 72 ^s 22'	
Jan. 0	57.58 ¹⁷	60.2 ¹	45.21 ¹⁷	47.0 ²	38.79 ¹⁸	21.7 ⁵	61.11 ⁸	67.1 ⁵
10	57.75 ¹²	60.1 ²	45.38 ¹²	47.2 ⁴	38.97 ¹³	22.2 ⁷	61.19 ⁶	70.8 ³⁷
20	57.87 ⁶	60.3 ³	45.50 ⁶	47.6 ⁵	39.10 ⁷	22.9 ⁹	61.13 ²⁰	74.5 ³⁶
30	57.93 ⁰	60.6 ⁴	45.56 ¹	48.1 ⁶	39.17 ¹	23.8 ⁹	60.93 ³⁴	78.1 ³³
Febr. 9	57.93 ⁵	61.0 ⁵	45.57 ⁵	48.7 ⁸	39.18 ⁵	24.7 ¹⁰	60.59 ⁴⁵	81.4 ³¹
19	57.88 ⁹	61.5 ⁶	45.52 ⁹	49.5 ⁷	39.13 ¹⁰	25.7 ¹⁰	60.14 ⁵⁶	84.5 ²⁷
März 1	57.79 ¹³	62.1 ⁶	45.43 ¹⁴	50.2 ⁷	39.03 ¹⁴	26.7 ⁹	59.58 ⁶³	87.2 ²²
11	57.66 ¹⁵	62.7 ⁵	45.29 ¹⁶	50.9 ⁶	38.89 ¹⁷	27.6 ⁸	58.95 ⁷¹	89.4 ¹⁸
21	57.51 ¹⁷	63.2 ⁵	45.13 ¹⁸	51.5 ⁶	38.72 ¹⁹	28.4 ⁶	58.24 ⁷⁴	91.2 ¹⁵
31	57.34 ¹⁸	63.7 ⁴	44.95 ¹⁸	52.1 ⁵	38.53 ¹⁹	29.0 ⁵	57.50 ⁷⁶	92.5 ⁷
April 10	57.16 ¹⁷	64.1 ⁴	44.77 ¹⁸	52.6 ³	38.34 ¹⁹	29.5 ³	56.74 ⁷⁷	93.2 ²
20	56.99 ¹⁶	64.5 ⁴	44.59 ¹⁶	52.9 ³	38.15 ¹⁷	29.8 ²	55.97 ⁷⁵	93.4 ³
30	56.83 ¹³	64.7 ¹	44.43 ¹⁴	53.1 ²	37.98 ¹⁵	30.0 ¹	55.22 ⁷¹	93.1 ⁹
Mai 10	56.70 ¹⁰	64.8 ¹	44.29 ¹¹	53.1 ⁰	37.83 ¹²	29.9 ²	54.51 ⁶⁵	92.2 ¹³
20	56.60 ⁷	64.9 ⁰	44.18 ⁷	53.1 ²	37.71 ⁸	29.7 ⁴	53.86 ⁵⁹	90.9 ¹⁸
30	56.53 ³	64.9 ¹	44.11 ⁴	52.9 ²	37.63 ⁴	29.3 ⁵	53.27 ⁵¹	89.1 ²⁵
Juni 9	56.50 ¹	64.8 ²	44.07 ¹	52.7 ⁴	37.59 ¹	28.8 ⁶	52.76 ⁴¹	86.8 ²⁶
19	56.51 ⁴	64.6 ²	44.08 ⁴	52.3 ⁴	37.60 ⁴	28.2 ⁷	52.35 ³⁰	84.2 ²⁹
29	56.55 ⁹	64.4 ²	44.12 ⁹	51.9 ⁴	37.64 ⁹	27.5 ⁷	52.05 ¹⁹	81.3 ³¹
Juli 9	56.64 ¹⁵	64.2 ³	44.21 ¹³	51.5 ⁶	37.73 ¹⁴	26.8 ⁹	51.86 ⁸	78.2 ³⁶
19	56.77 ¹⁵	63.9 ³	44.34 ¹⁶	50.9 ⁵	37.87 ¹⁶	25.9 ⁹	51.78 ⁶	74.6 ³³
29	56.92 ¹⁹	63.6 ⁴	44.50 ¹⁹	50.4 ⁶	38.03 ²⁰	25.0 ⁸	51.84 ¹⁸	71.3 ³⁵
Aug. 8	57.11 ²¹	63.2 ⁴	44.69 ²¹	49.8 ⁶	38.23 ²³	24.2 ⁹	52.02 ³⁰	68.0 ³⁸
18	57.32 ²⁴	62.8 ⁵	44.90 ²⁵	49.2 ⁶	38.46 ²⁶	23.3 ⁹	52.32 ⁴⁰	65.0 ²⁸
28	57.56 ²⁷	62.3 ⁵	45.15 ²⁷	48.6 ⁷	38.72 ²⁸	22.4 ¹⁰	52.72 ⁵¹	62.2 ²⁴
Sept. 7	57.83 ²⁸	61.8 ⁶	45.42 ²⁹	47.9 ⁸	39.00 ³¹	21.4 ⁹	53.23 ⁶⁰	59.8 ¹⁹
17	58.11 ³⁰	61.2 ⁷	45.71 ³¹	47.1 ⁸	39.31 ³³	20.5 ⁹	53.83 ⁶⁶	57.9 ¹⁴
27	58.41 ³²	60.5 ⁸	46.02 ³³	46.3 ⁸	39.64 ³⁵	19.6 ⁹	54.49 ⁷²	56.5 ⁷
Okt. 7	58.73 ³⁴	59.7 ⁸	46.35 ³⁴	45.5 ⁸	39.99 ³⁶	18.7 ⁹	55.21 ⁷⁵	55.8 ¹
17	59.07 ³⁴	58.9 ⁹	46.69 ³⁵	44.7 ⁸	40.35 ³⁷	17.8 ⁸	55.96 ⁷⁶	55.7 ⁵
27	59.41 ³⁴	58.0 ⁸	47.04 ³⁶	43.9 ⁸	40.72 ³⁷	17.0 ⁷	56.72 ⁷⁴	56.2 ¹³
Nov. 6	59.75 ³⁴	57.2 ⁸	47.40 ³⁵	43.1 ⁷	41.09 ³⁷	16.3 ⁵	57.46 ⁶⁹	57.5 ¹⁸
16	60.09 ³³	56.4 ⁷	47.75 ³⁴	42.4 ⁶	41.46 ³⁶	15.8 ⁴	58.15 ⁶²	59.3 ²⁴
26	60.42 ³¹	55.7 ⁷	48.09 ³¹	41.8 ⁵	41.82 ³³	15.4 ³	58.77 ⁵³	61.7 ³⁰
Dez. 6	60.73 ²⁸	55.0 ⁵	48.40 ²⁹	41.3 ³	42.15 ³¹	15.1 ⁰	59.30 ⁴¹	64.7 ³²
16	61.01 ²⁴	54.5 ³	48.69 ²⁵	41.0 ¹	42.46 ²⁶	15.1 ²	59.71 ²⁹	67.9 ³⁵
26	61.25 ²⁰	54.2 ¹	48.94 ²⁰	40.9 ¹	42.72 ²²	15.3 ⁴	60.00 ¹⁶	71.4 ³⁸
36	61.45	54.1	49.14	41.0	42.94	15.7	60.16	75.2
Mittl. Ort	57.34	60.6	44.96	47.8	38.50	22.8	56.60	75.4
	294.		295)		296)		297)	

1909	Gr. 1374. 5 ^m .5.		γ Argus. 3 ^m .5.		γ Geminorum. 5 ^m .I.		ζ Argus. 2 ^m .2.										
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -									
	7 ^h 49 ^m	74° 9'	7 ^h 54 ^m	52° 43'	7 ^h 57 ^m	28° 2'	8 ^h 0 ^m	39° 44'									
Jan.	0	21.59	44	40.7	26	29.53	13	68.2	36	56.12	19	59.3	1	24.04	14	39.9	33
	10	22.03	27	43.3	27	29.66	5	71.8	36	56.31	14	59.4	3	24.18	9	43.2	33
	20	22.30	11	46.0	29	29.71	2	75.4	35	56.45	8	59.7	5	24.27	1	46.5	32
	30	22.41	7	48.9	28	29.69	10	78.9	32	56.53	3	60.2	6	24.28	4	49.7	29
Febr.	9	22.34	23	51.7	27	29.59	16	82.1	30	56.56	3	60.8	7	24.24	10	52.6	26
	19	22.11	37	54.4	24	29.43	22	85.1	25	56.53	8	61.5	8	24.14	14	55.2	23
März	1	21.74	49	56.8	21	29.21	27	87.6	22	56.45	12	62.3	7	24.00	19	57.5	19
	11	21.25	59	58.9	16	28.94	30	89.8	16	56.33	15	63.0	7	23.81	21	59.4	14
	21	20.66	64	60.5	12	28.64	33	91.4	12	56.18	17	63.7	7	23.60	24	60.8	10
	31	20.02	68	61.7	7	28.31	34	92.6	7	56.01	17	64.4	5	23.36	25	61.8	6
April	10	19.34	68	62.4	2	27.97	34	93.3	2	55.84	18	64.9	5	23.11	24	62.4	1
	20	18.66	65	62.6	4	27.63	33	93.5	4	55.66	17	65.4	3	22.87	24	62.5	4
	30	18.01	60	62.2	9	27.30	30	93.1	8	55.49	14	65.7	1	22.63	22	62.1	8
Mai	10	17.41	51	61.3	14	27.00	28	92.3	13	55.35	11	65.8	0	22.41	20	61.3	13
	20	16.90	41	59.9	18	26.72	24	91.0	18	55.24	9	65.8	1	22.21	16	60.0	16
	30	16.49	30	58.1	21	26.48	20	89.2	21	55.15	5	65.7	2	22.05	13	58.4	20
Juni	9	16.19	17	56.0	23	26.28	15	87.1	25	55.10	1	65.5	3	21.92	9	56.4	22
	19	16.02	5	53.7	26	26.13	10	84.6	28	55.09	3	65.2	4	21.83	5	54.2	26
	29	15.97	8	51.1	28	26.03	5	81.8	30	55.12	7	64.8	4	21.78	1	51.6	27
Juli	9	16.05	24	48.3	31	25.98	1	78.8	31	55.19	10	64.4	6	21.77	3	48.9	28
	19	16.29	35	45.2	28	25.99	7	75.7	35	55.29	15	63.8	6	21.80	8	46.1	31
	29	16.64	46	42.4	27	26.06	13	72.2	31	55.44	17	63.2	7	21.88	11	43.0	27
Aug.	8	17.10	57	39.7	27	26.19	18	69.1	29	55.61	20	62.5	7	21.99	16	40.3	26
	18	17.67	68	37.0	25	26.37	24	66.2	26	55.81	23	61.8	7	22.15	20	37.7	23
	28	18.35	75	34.5	22	26.61	28	63.6	22	56.04	26	61.1	8	22.35	23	35.4	19
Sept.	7	19.10	84	32.3	19	26.89	32	61.4	18	56.30	28	60.3	9	22.58	27	33.5	15
	17	19.94	91	30.4	17	27.21	37	59.6	12	56.58	30	59.4	9	22.85	29	32.0	10
	27	20.85	96	28.7	13	27.58	39	58.4	6	56.88	32	58.5	10	23.14	33	31.0	5
Okt.	7	21.81	99	27.4	9	27.97	41	57.8	0	57.20	34	57.5	10	23.47	34	30.5	1
	17	22.80	102	26.5	5	28.38	42	57.8	6	57.54	35	56.5	10	23.81	35	30.6	8
	27	23.82	101	26.0	1	28.80	43	58.4	13	57.89	36	55.5	9	24.16	36	31.4	13
Nov.	6	24.83	99	25.9	5	29.23	41	59.7	19	58.25	36	54.6	9	24.52	35	32.7	18
	16	25.82	95	26.4	9	29.64	38	61.6	24	58.61	34	53.7	7	24.87	34	34.5	24
	26	26.77	88	27.3	13	30.02	34	64.0	29	58.95	33	53.0	6	25.21	31	36.9	27
Dez.	6	27.65	78	28.6	18	30.36	29	66.9	32	59.28	30	52.4	5	25.52	27	39.6	31
	16	28.43	66	30.4	21	30.65	24	70.1	35	59.58	27	51.9	2	25.79	23	42.7	32
	26	29.09	53	32.5	25	30.89	16	73.6	36	59.85	23	51.7	0	26.02	18	45.9	34
	36	29.62		35.0		31.05		77.2		60.08		51.7		26.20		49.3	
Mittl. Ort		19.22		43.8		27.94		76.3		55.89		60.3		23.10		47.1	
		300)				303)				305)				306)			

SCHEINBARE STERNÖRTER.

1909	27 Lynceis. 4 ^m .6.		ε Navis. 2 ^m .8.		γ Argus. 2 ^m .1.		Br. II47 5 ^m .8.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	8 ^h 1 ^m	51° 45'	8 ^h 3 ^m	24° 2'	8 ^h 6 ^m	47° 3'	8 ^h 8 ^m	76° 1'
Jan. 0	37.60	67.9	40.61	24.1	44.87	56.5	10.71	64.9
10	37.85	69.4	40.76	26.9	45.02	60.1	11.26	67.5
20	38.04	71.1	40.86	29.7	45.10	63.6	11.63	70.2
30	38.14	72.9	40.92	32.2	45.11	67.0	11.81	73.2
Febr. 9	38.17	74.8	40.92	34.5	45.05	70.1	11.80	76.1
19	38.12	76.7	40.87	36.5	44.94	73.0	11.60	78.9
März 1	38.00	78.6	40.77	38.3	44.77	75.6	11.23	81.5
11	37.83	80.2	40.64	39.6	44.56	77.7	10.72	83.8
21	37.60	81.6	40.47	40.7	44.31	79.4	10.10	85.7
31	37.35	82.7	40.29	41.3	44.03	80.6	9.39	87.1
April 10	37.08	83.5	40.09	41.6	43.75	81.4	8.63	88.0
20	36.81	83.9	39.90	41.5	43.46	81.6	7.85	88.4
30	36.56	84.0	39.71	41.1	43.18	81.4	7.09	88.2
Mai 10	36.33	83.7	39.54	40.4	42.91	80.7	6.39	87.5
20	36.14	83.1	39.40	39.3	42.67	79.5	5.76	86.3
30	35.99	82.1	39.28	37.9	42.47	77.9	5.24	84.6
Juni 9	35.89	80.9	39.19	36.2	42.30	75.9	4.83	82.6
19	35.85	79.5	39.14	34.3	42.17	73.6	4.55	80.2
29	35.86	77.9	39.12	32.3	42.08	70.9	4.42	77.6
Juli 9	35.93	76.2	39.14	30.1	42.04	68.1	4.43	74.9
19	36.05	74.3	39.20	27.8	42.05	65.2	4.58	72.0
29	36.24	72.2	39.30	25.4	42.12	61.9	4.91	68.7
Aug. 8	36.46	70.3	39.42	23.2	42.23	58.9	5.35	65.8
18	36.73	68.4	39.58	21.2	42.39	56.1	5.93	62.9
28	37.04	66.5	39.77	19.5	42.59	53.6	6.61	60.2
Sept. 7	37.39	64.7	39.99	18.1	42.84	51.5	7.41	57.8
17	37.77	63.1	40.24	17.1	43.13	49.7	8.30	55.5
27	38.19	61.6	40.50	16.4	43.45	48.5	9.28	53.6
Okt. 7	38.63	60.2	40.79	16.3	43.80	47.9	10.32	52.0
17	39.09	59.1	41.09	16.6	44.17	47.8	11.42	50.8
27	39.57	58.2	41.40	17.5	44.56	48.4	12.55	50.0
Nov. 6	40.06	57.6	41.72	18.8	44.95	49.6	13.70	49.6
16	40.54	57.2	42.03	20.6	45.33	51.4	14.83	49.8
26	41.01	57.3	42.33	22.7	45.70	53.7	15.91	50.5
Dez. 6	41.46	57.6	42.61	25.2	46.03	56.5	16.93	51.6
16	41.87	58.3	42.87	27.8	46.32	59.6	17.85	53.2
26	42.22	59.3	43.09	30.6	46.57	63.0	18.64	55.3
36	42.52	60.7	43.27	33.5	46.75	66.5	19.29	57.7
Mittel. Ort	37.04	70.9	40.09	29.6	43.65	65.1	7.98	69.1

307

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310

1909	20 Navis. 5 ^m .3.		β Caneri. 3 ^m .5.		31 Lyncis. 4 ^m .4.		ε Argus. 1 ^m .7.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	8 ^h 9 ^m	15° 30'	8 ^h 11 ^m	9° 27'	8 ^h 16 ^m	43° 28'	8 ^h 20 ^m	59° 12'
Jan. 0	9.41	44.4	35.07	60.5	36.93	47.3	40.83	47.8
10	9.56	46.8	35.25	59.5	37.18	48.2	41.00	51.5
20	9.67	49.2	35.38	58.6	37.36	49.4	41.09	55.2
30	9.73	51.3	35.46	57.9	37.48	50.8	41.09	59.9
Febr. 9	9.74	53.2	35.50	57.4	37.53	52.3	41.00	63.4
19	9.71	54.9	35.48	57.0	37.52	53.8	40.84	65.6
März 1	9.63	56.3	35.42	56.9	37.44	55.4	40.61	68.6
11	9.51	57.3	35.32	56.9	37.31	56.8	40.31	71.1
21	9.37	58.1	35.19	57.0	37.14	58.1	39.97	73.2
31	9.20	58.6	35.05	57.2	36.94	59.2	39.60	74.9
April 10	9.03	58.8	34.89	57.5	36.72	60.1	39.20	76.0
20	8.86	58.6	34.74	57.9	36.50	60.6	38.79	76.6
30	8.69	58.2	34.59	58.3	36.29	60.9	38.39	76.7
Mai 10	8.54	57.5	34.46	58.8	36.10	60.9	38.01	76.3
20	8.42	56.6	34.35	59.3	35.94	60.6	37.64	75.3
30	8.32	55.4	34.27	59.9	35.81	60.1	37.30	73.9
Juni 9	8.24	54.0	34.21	60.4	35.72	59.3	37.03	72.0
19	8.20	52.4	34.19	61.0	35.68	58.2	36.79	69.7
29	8.19	50.7	34.20	61.6	35.68	57.1	36.61	67.1
Juli 9	8.22	48.9	34.25	62.1	35.73	55.7	36.49	64.3
19	8.28	47.0	34.32	62.7	35.82	54.3	36.44	61.2
29	8.38	45.0	34.44	63.2	35.97	52.7	36.45	57.7
Aug. 8	8.50	43.3	34.58	63.6	36.15	51.1	36.53	54.6
18	8.65	41.7	34.74	63.9	36.37	49.4	36.68	51.5
28	8.83	40.3	34.93	64.0	36.62	47.8	36.90	48.7
Sept. 7	9.04	39.2	35.15	63.9	36.90	46.2	37.18	46.2
17	9.27	38.4	35.39	63.7	37.22	44.6	37.51	44.1
27	9.52	38.1	35.65	63.2	37.57	43.1	37.90	42.5
Okt. 7	9.80	38.1	35.93	62.6	37.95	41.7	38.34	41.5
17	10.10	38.6	36.23	61.7	38.34	40.4	38.80	41.1
27	10.40	39.5	36.54	60.6	38.76	39.3	39.28	41.4
Nov. 6	10.71	40.8	36.86	59.4	39.18	38.4	39.77	42.3
16	11.03	42.5	37.18	58.0	39.61	37.7	40.25	43.9
26	11.34	44.5	37.50	56.6	40.03	37.2	40.71	46.1
Dez. 6	11.62	46.7	37.80	55.2	40.43	37.1	41.13	48.8
16	11.88	49.2	38.08	53.8	40.80	37.2	41.49	51.9
26	12.11	51.6	38.32	52.5	41.14	37.7	41.78	55.3
36	12.30	54.1	38.53	51.3	41.42	38.5	42.00	59.0
MITL. Ort	9.02	49.0	34.89	59.4	36.59	50.3	38.87	58.8

311)

312)

314

315)

1909	Br. 1197. 3 ^m .6.		o Ursae maj. 3 ^m .3.		θ Chamael. 4 ^m .2.		Gr. 1450. 6 ^m .2.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl. +
	8 ^h 21 ^m	3° 36'	8 ^h 22 ^m	61° 1'	8 ^h 23 ^m	77° 11'	8 ^h 26 ^m	38° 5'
Jan. 0	7.07	29.4	43.62	18.7	29.03	15.3	60.49	42.0
10	7.26	31.3	43.96	20.6	29.27	19.0	60.74	42.5
20	7.39	33.0	44.22	22.7	29.32	22.7	60.93	43.3
30	7.47	34.5	44.37	25.0	29.19	26.5	61.05	44.4
Febr. 9	7.50	35.8	44.43	27.3	28.87	30.1	61.12	45.0
19	7.49	36.9	44.39	29.7	28.39	33.5	61.12	46.9
März 1	7.43	37.7	44.27	31.9	27.75	36.6	61.06	48.1
11	7.33	38.3	44.06	34.0	26.99	39.4	60.95	49.5
21	7.21	38.7	43.79	35.8	26.12	41.8	60.80	50.7
31	7.06	38.9	43.47	37.2	25.17	43.7	60.63	51.8
April 10	6.91	38.8	43.13	38.3	24.16	45.1	60.43	52.6
20	6.75	38.6	42.78	38.9	23.13	46.0	60.23	53.5
30	6.60	38.1	42.43	39.0	22.08	46.4	60.04	53.7
Mai 10	6.46	37.6	42.11	38.8	21.07	46.2	59.87	53.8
20	6.35	36.9	41.83	38.1	20.09	45.5	59.72	53.7
30	6.26	36.0	41.60	37.0	19.19	44.4	59.60	53.4
Juni 9	6.19	35.0	41.42	35.6	18.36	42.7	59.51	52.8
19	6.15	33.9	41.30	33.9	17.64	40.6	59.47	52.1
29	6.15	32.8	41.26	31.9	17.05	38.1	59.46	51.2
Juli 9	6.18	31.5	41.28	29.8	16.60	35.3	59.50	50.1
19	6.23	30.3	41.37	27.4	16.30	32.2	59.58	49.0
29	6.33	29.0	41.54	24.8	16.15	28.7	59.70	47.0
Aug. 8	6.45	27.9	41.77	22.4	16.19	25.5	59.86	46.2
18	6.59	27.0	42.06	19.9	16.40	22.3	60.05	44.8
28	6.77	26.2	42.40	17.5	16.77	19.3	60.27	43.4
Sept. 7	6.97	25.6	42.80	15.2	17.31	16.6	60.53	41.9
17	7.19	25.4	43.25	13.1	17.98	14.3	60.82	40.4
27	7.44	25.4	43.74	11.1	18.77	12.4	61.13	38.9
Okt. 7	7.71	25.7	44.27	9.4	19.67	11.1	61.48	35.5
17	8.00	26.4	44.83	7.9	20.64	10.5	61.84	36.2
27	8.30	27.4	45.43	6.8	21.65	10.5	62.22	34.9
Nov. 6	8.61	28.7	46.03	6.0	22.65	11.1	62.61	33.8
16	8.93	30.3	46.63	5.6	23.63	12.4	63.02	32.8
26	9.24	32.0	47.23	5.6	24.54	14.4	63.41	32.1
Dez. 6	9.53	33.9	47.80	6.1	25.34	16.8	63.79	31.7
16	9.80	35.9	48.32	6.9	26.01	19.8	64.15	31.5
26	10.05	37.9	48.78	8.2	26.53	23.1	64.47	31.6
36	10.25	39.8	49.17	9.8	26.86	26.7	64.75	32.0
Mittl. Ort	6.85	32.7	42.75	23.2	23.04	28.1	60.26	44.7

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1909	η Cancri. 5 ^m .6.		δ Cancri. 3 ^m .9.		α Pyxidid. 3 ^m .7.		ε Cancri. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	8 ^h 27 ^m	20° 44'	8 ^h 39 ^m	18° 29'	8 ^h 39 ^m	32° 51'	8 ^h 41 ^m	29° 5'
Jan. 0	27.05	62.6	31.04	21.2	56.69	19.6	11.73	34.0
10	27.26 ²¹	62.1	31.26	20.5	56.88	22.8	11.97	34.0
20	27.42 ¹⁶	61.8	31.43	20.1	57.01	25.9	12.16	34.2
30	27.53 ¹¹	61.8	31.55	19.8	57.09	28.9	12.29	34.6
Febr. 9	27.58 ⁵	61.9	31.61	19.8	57.11	31.8	12.36	35.2
19	27.58 ⁰	62.2	31.63	20.0	57.08	34.4	12.38	36.0
März 1	27.54 ⁴	62.7	31.59	20.3	57.00	36.7	12.34	36.9
11	27.45 ⁹	63.2	31.51	20.7	56.87	38.6	12.26	37.9
21	27.33 ¹⁵	63.8	31.40	21.2	56.71	40.2	12.14	38.8
31	27.18 ¹⁵	64.4	31.27	21.8	56.53	41.4	12.00	39.7
April 10	27.03 ¹⁶	65.0	31.12	22.3	56.33	42.2	11.83	40.5
20	26.87 ¹⁶	65.5	30.96	22.8	56.13	42.6	11.66	41.2
30	26.71 ¹⁴	65.9	30.81	23.3	55.92	42.6	11.49	41.7
Mai 10	26.57 ¹²	66.3	30.67	23.8	55.73	42.1	11.34	42.0
20	26.45 ⁹	66.6	30.55	24.1	55.55	41.3	11.21	42.2
30	26.36 ⁷	66.8	30.46	24.4	55.40	40.1	11.10	42.3
Juni 9	26.29 ³	66.9	30.39	24.7	55.27	38.6	11.02	42.1
19	26.26 ⁰	67.0	30.35	24.8	55.17	36.7	10.97	41.8
29	26.26 ⁴	67.0	30.34	24.9	55.11	34.6	10.96	41.4
Juli 9	26.30 ⁷	66.9	30.36	25.0	55.07	32.3	10.98	40.9
19	26.37 ¹¹	66.8	30.41	24.9	55.08	29.9	11.04	40.3
29	26.48 ¹³	66.5	30.50	24.8	55.12	27.5	11.13	39.5
Aug. 8	26.61 ¹⁶	66.2	30.62	24.5	55.20	24.8	11.26	38.6
18	26.77 ¹⁹	65.8	30.77	24.2	55.32	22.4	11.42	37.6
28	26.96 ²²	65.3	30.95	23.7	55.47	20.2	11.61	36.5
Sept. 7	27.18 ²⁴	64.6	31.15	23.1	55.66	18.5	11.83	35.4
17	27.42 ²⁷	63.8	31.38	22.3	55.88	17.0	12.08	34.2
27	27.69 ²⁹	62.9	31.64	21.4	56.14	16.0	12.36	32.9
Okt. 7	27.98 ³¹	61.9	31.92	20.4	56.43	15.4	12.66	31.5
17	28.29 ³³	60.8	32.22	19.2	56.74	15.4	12.98	30.1
27	28.62 ³⁴	59.6	32.54	17.9	57.07	15.9	13.33	28.8
Nov. 6	28.96 ³⁴	58.4	32.87	16.6	57.41	17.0	13.69	27.5
16	29.30 ³⁴	57.1	33.21	15.2	57.75	18.6	14.05	26.3
26	29.64 ³³	55.9	33.55	13.9	58.09	20.7	14.42	25.2
Dez. 6	29.97 ³⁰	54.7	33.88	12.6	58.41	23.1	14.77	24.2
16	30.27 ²⁸	53.7	34.19	11.4	58.71	25.9	15.11	23.5
26	30.55 ²⁴	52.9	34.47	10.4	58.97	29.0	15.42	23.0
36	30.79	52.3	34.71	9.6	59.19	32.1	15.68	22.8
Mittel. Ori	26.91	63.0	30.94	21.3	56.11	28.6	11.60	35.8

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1909	δ Argus. 2 ^m .O.		ζ Hydrae. 3 ^m .I.		ι Ursae maj. 2 ^m .9.		ε Carinae. 4 ^m .O.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	8 ^h 42 ^m	54° 22'	8 ^h 50 ^m	6° 17'	8 ^h 52 ^m	48° 23'	8 ^h 52 ^m	60° 17'
Jan. 0	12.88	17.3	35.17	34.5	59.29	53.4	60.96	33.7
10	13.09	21 17.3	35.38	21 33.1	59.60	31 54.3	61.20	24 37.3
20	13.22	13 24.6	35.55	17 31.9	59.85	25 55.6	61.35	15 41.1
30	13.27	5 28.2	35.67	12 30.9	60.02	17 57.1	61.42	7 44.8
Febr. 9	13.25	2 31.8	35.73	6 30.1	60.13	11 58.8	61.39	3 48.5
19	13.16	9 35.1	35.75	2 29.5	60.15	2 60.7	61.29	10 52.0
März 1	12.99	17 38.1	35.72	3 29.1	60.11	4 62.6	61.11	18 55.2
11	12.78	21 40.8	35.66	6 29.0	60.01	10 64.4	60.85	26 58.1
21	12.52	26 43.0	35.56	10 29.0	59.85	16 66.1	60.55	30 60.6
31	12.22	30 44.8	35.43	13 29.1	59.66	19 67.5	60.20	35 62.7
April 10	11.89	33 46.2	35.29	14 29.3	59.43	23 68.7	59.82	38 64.3
20	11.56	33 47.0	35.15	14 29.7	59.20	23 69.6	59.42	40 65.3
30	11.22	34 47.3	35.00	15 30.2	58.96	24 70.2	59.02	40 65.9
Mai 10	10.90	32 47.1	34.87	13 30.7	58.74	22 70.4	58.62	40 65.9
20	10.59	31 46.4	34.75	12 31.2	58.54	20 70.3	58.23	39 65.4
30	10.30	29 45.2	34.65	10 31.8	58.37	17 69.9	57.88	35 64.4
Juni 9	10.05	25 43.6	34.58	7 32.4	58.23	14 69.1	57.55	33 63.0
19	9.85	20 41.6	34.53	5 33.1	58.13	10 68.1	57.27	28 61.1
29	9.68	17 39.2	34.51	2 33.8	58.09	4 66.7	57.04	23 58.8
Juli 9	9.56	12 36.5	34.52	1 34.5	58.09	0 65.2	56.86	18 56.1
19	9.50	6 33.6	34.55	3 35.1	58.13	4 63.5	56.75	11 53.2
29	9.49	1 30.6	34.62	7 35.6	58.21	8 61.7	56.70	5 50.2
Aug. 8	9.55	31 27.3	34.73	11 36.1	58.36	15 59.5	56.72	2 46.8
18	9.66	11 24.3	34.86	13 36.4	58.54	18 57.5	56.81	9 43.7
28	9.83	17 21.5	35.01	15 36.6	58.76	22 55.4	56.97	16 40.7
Sept. 7	10.05	22 19.0	35.19	18 36.6	59.02	26 53.3	57.21	24 38.0
17	10.33	28 16.9	35.40	21 36.4	59.32	30 51.3	57.51	30 35.7
27	10.66	33 15.2	35.63	23 35.9	59.66	34 49.2	57.87	36 33.8
Okt. 7	11.03	37 14.1	35.89	26 35.2	60.04	38 47.3	58.28	41 32.5
17	11.44	41 13.6	36.17	28 34.3	60.44	40 45.5	58.74	46 31.7
27	11.88	44 13.7	36.47	30 33.1	60.88	44 44.0	59.23	49 31.6
Nov. 6	12.32	44 14.5	36.79	32 31.7	61.32	44 42.6	59.73	50 32.2
16	12.77	45 15.9	37.11	32 30.1	61.78	46 41.6	60.24	50 33.4
26	13.20	43 17.9	37.44	33 28.5	62.24	46 40.8	60.74	50 35.2
Dez. 6	13.60	40 20.4	37.75	31 26.8	62.70	46 40.4	61.20	46 37.6
16	13.97	37 23.4	38.05	30 25.1	63.13	43 40.4	61.62	42 40.5
26	14.28	31 26.7	38.33	28 23.5	63.52	39 40.8	61.97	35 43.8
36	14.52	24 30.3	38.56	23 22.0	63.86	34 41.5	62.25	28 47.3
Mittl. Ort	11.46	29.7	35.08	32.4	58.96	58.1	59.17	47.7

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1909	α Cancri. 4 ^m .I.		10 Ursae maj. 3 ^m .9.		x Ursae maj. 3 ^m .3.		α Volantis. 4 ^m .I.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	8 ^h 53 ^m	12° 12'	8 ^h 54 ^m	42° 8'	8 ^h 57 ^m	47° 30'	9 ^h 0 ^m	66° 1'
Jan. 0	30.78 ²²	38.6 ¹¹	44.46 ²⁹	32.9 ⁶	25.38 ³¹	56.3 ⁹	63.10 ²⁸	42.5 ³⁶
10	31.00 ¹⁸	37.5 ⁸	44.75 ²³	33.5 ⁹	25.69 ²⁵	57.2 ¹²	63.38 ¹⁸	46.1 ³⁸
20	31.18 ¹³	36.7 ⁷	44.98 ¹⁶	34.4 ¹¹	25.94 ¹⁸	58.4 ¹⁴	63.56 ⁷	49.9 ³⁸
30	31.31 ⁷	36.0 ⁴	45.14 ¹⁰	35.5 ¹⁴	26.12 ¹¹	59.8 ¹⁷	63.63 ³	53.7 ³⁸
Febr. 9	31.38 ³	35.6 ²	45.24 ³	36.9 ¹⁵	26.23 ⁴	61.5 ¹⁸	63.60 ¹³	57.5 ³⁶
19	31.41 ²	35.4 ⁰	45.27 ³	38.4 ¹⁶	26.27 ⁴	63.3 ¹⁸	63.47 ²²	61.1 ³⁴
März 1	31.39 ⁷	35.4 ¹	45.24 ⁹	40.0 ¹⁶	26.23 ⁹	65.1 ¹⁸	63.25 ³¹	64.5 ³¹
11	31.32 ¹⁰	35.5 ²	45.15 ¹⁴	41.6 ¹⁵	26.14 ¹⁵	66.9 ¹⁷	62.94 ³⁷	67.6 ²⁷
21	31.22 ¹²	35.7 ⁴	45.01 ¹⁷	43.1 ¹³	25.99 ¹⁸	68.6 ¹⁵	62.57 ⁴³	70.3 ²²
31	31.10 ¹⁴	36.1 ⁴	44.84 ¹⁹	44.4 ¹¹	25.81 ²¹	70.1 ¹²	62.14 ⁴⁷	72.5 ¹⁸
April 10	30.96 ¹⁵	36.5 ⁵	44.65 ²⁰	45.5 ⁹	25.60 ²³	71.3 ¹⁰	61.67 ⁴⁹	74.3 ¹³
20	30.81 ¹⁴	37.0 ⁵	44.45 ²¹	46.4 ⁶	25.37 ²³	72.3 ⁶	61.18 ⁵¹	75.6 ⁸
30	30.67 ¹⁴	37.5 ⁵	44.24 ¹⁹	47.0 ³	25.14 ²²	72.9 ³	60.67 ⁵⁰	76.4 ²
Mai 10	30.53 ¹²	38.0 ⁵	44.05 ¹⁷	47.3 ⁰	24.92 ²⁰	73.2 ⁰	60.17 ⁴⁹	76.6 ³
20	30.41 ¹⁰	38.5 ⁵	43.88 ¹⁵	47.3 ²	24.72 ¹⁷	73.2 ⁴	59.68 ⁴⁷	76.3 ⁸
30	30.31 ⁸	39.0 ⁴	43.73 ¹²	47.1 ⁶	24.55 ¹³	72.8 ⁷	59.21 ⁴²	75.5 ¹³
Juni 9	30.23 ⁴	39.4 ⁴	43.61 ⁷	46.5 ⁸	24.42 ¹⁰	72.1 ¹⁰	58.79 ³⁸	74.2 ¹⁷
19	30.19 ²	39.8 ⁴	43.54 ⁴	45.7 ¹⁰	24.32 ⁵	71.1 ¹³	58.41 ³³	72.5 ²²
29	30.17 ¹	40.2 ³	43.50 ⁰	44.7 ¹²	24.27 ¹	69.8 ¹⁴	58.08 ²⁵	70.3 ²⁶
Juli 9	30.18 ³	40.5 ³	43.50 ⁴	43.5 ¹⁴	24.26 ⁴	68.4 ¹⁷	57.83 ¹⁹	67.7 ²⁸
19	30.21 ⁷	40.8 ²	43.54 ⁸	42.1 ¹⁵	24.30 ⁸	66.7 ¹⁸	57.64 ¹⁰	64.9 ³¹
29	30.28 ¹¹	41.0 ¹	43.62 ¹⁴	40.6 ¹⁸	24.38 ¹⁴	64.9 ²¹	57.54 ²	61.8 ³⁴
Aug. 8	30.39 ¹³	41.1 ⁰	43.76 ¹⁶	38.8 ¹⁸	24.52 ¹⁷	62.8 ²⁰	57.52 ⁷	58.4 ³²
18	30.52 ¹⁵	41.1 ²	43.92 ²⁰	37.0 ¹⁸	24.69 ²¹	60.8 ²⁰	57.59 ¹⁷	55.2 ³⁰
28	30.67 ¹⁹	40.9 ³	44.12 ²⁴	35.2 ¹⁸	24.90 ²⁵	58.8 ²¹	57.76 ²⁵	52.2 ²⁸
Sept. 7	30.86 ²¹	40.6 ⁵	44.36 ²⁷	33.4 ¹⁸	25.15 ³⁰	56.7 ²¹	58.01 ³³	49.4 ²⁵
17	31.07 ²⁴	40.1 ⁷	44.63 ³⁰	31.6 ¹⁸	25.45 ³³	54.6 ²⁰	58.34 ⁴¹	46.9 ²¹
27	31.31 ²⁶	39.4 ¹⁰	44.93 ³⁴	29.8 ¹⁸	25.78 ³⁶	52.6 ²⁰	58.75 ⁴⁸	44.8 ¹⁵
Okt. 7	31.57 ²⁹	38.4 ¹¹	45.27 ³⁷	28.0 ¹⁸	26.14 ⁴⁰	50.6 ¹⁸	59.23 ⁵³	43.3 ⁹
17	31.86 ³⁰	37.3 ¹²	45.64 ³⁹	26.2 ¹⁵	26.54 ⁴²	48.8 ¹⁶	59.76 ⁵⁸	42.4 ³
27	32.16 ³²	36.1 ¹⁴	46.03 ⁴¹	24.7 ¹⁴	26.96 ⁴⁵	47.2 ¹⁴	60.34 ⁶⁰	42.1 ³
Nov. 6	32.48 ³³	34.7 ¹⁵	46.44 ⁴²	23.3 ¹²	27.41 ⁴⁵	45.8 ¹¹	60.94 ⁶⁰	42.4 ¹⁰
16	32.81 ³⁴	33.2 ¹⁶	46.86 ⁴²	22.1 ⁹	27.86 ⁴⁶	44.7 ⁸	61.54 ⁵⁸	43.4 ¹⁷
26	33.15 ³²	31.6 ¹⁵	47.28 ⁴¹	21.2 ⁷	28.32 ⁴⁵	43.9 ⁵	62.12 ⁵⁵	45.1 ²³
Dez. 6	33.47 ³¹	30.1 ¹⁵	47.69 ³⁹	20.5 ³	28.77 ⁴²	43.4 ¹	62.67 ⁴⁹	47.4 ²⁷
16	33.78 ²⁸	28.6 ¹⁴	48.08 ³⁶	20.2 ¹	29.19 ³⁹	43.3 ³	63.16 ⁴²	50.1 ³³
26	34.06 ²⁵	27.2 ¹²	48.44 ³²	20.3 ⁴	29.58 ³⁵	43.6 ⁶	63.58 ³³	53.4 ³⁵
36	34.31	26.0	48.76	20.7	29.93	44.2	63.91	56.9
Mittl. Ort	30.72	37.6	44.24	36.8	25.08	61.0	60.74	57.8

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1909	♄ Ursae maj. 4 ^m .9.		λ Argus. 2 ^m .1.		♁ Hydrae. 3 ^m .9.		β Argus. 1 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	9 ^h 2 ^m	67° 29'	9 ^h 4 ^m	43° 3'	9 ^h 9 ^m	2° 41'	9 ^h 12 ^m	69° 20'
Jan. 0	25.12	70.1	39.58	41.0	37.89	58.0	15.04	15.4
10	25.62	71.9	39.81	44.4	38.12	56.4	15.37	19.0
20	26.01	74.1	39.97	47.8	38.30	54.9	15.59	22.8
30	26.28	76.5	40.08	51.3	38.44	53.6	15.69	26.6
Febr. 9	26.44	79.1	40.11	54.6	38.52	52.5	15.67	30.4
19	26.47	81.7	40.09	57.7	38.56	51.7	15.54	34.1
März 1	26.38	84.4	40.01	60.5	38.55	51.1	15.30	37.6
11	26.19	86.9	39.88	63.0	38.50	50.7	14.97	40.8
21	25.91	89.1	39.71	65.2	38.41	50.5	14.56	43.7
31	25.55	91.0	39.51	66.9	38.30	50.5	14.08	46.2
April 10	25.14	92.5	39.29	68.2	38.17	50.6	13.55	48.2
20	24.70	93.6	39.05	69.0	38.03	50.9	12.98	49.7
30	24.25	94.2	38.81	69.4	37.89	51.3	12.40	50.7
Mai 10	23.81	94.3	38.58	69.3	37.75	51.8	11.80	51.1
20	23.40	93.9	38.35	68.8	37.63	52.3	11.23	51.0
30	23.03	93.0	38.15	67.9	37.53	53.0	10.67	50.4
Juni 9	22.72	91.7	37.96	66.5	37.45	53.7	10.15	49.3
19	22.48	90.0	37.81	64.8	37.39	54.4	9.68	47.7
29	22.31	88.0	37.69	62.7	37.35	55.1	9.28	45.6
Juli 9	22.22	85.6	37.60	60.3	37.34	55.9	8.94	43.2
19	22.22	83.1	37.56	57.8	37.36	56.7	8.68	40.5
29	22.29	80.4	37.55	55.1	37.41	57.4	8.51	37.5
Aug. 8	22.47	77.2	37.59	52.1	37.49	58.0	8.44	34.3
18	22.72	74.3	37.68	49.4	37.60	58.5	8.49	30.8
28	23.04	71.4	37.81	46.9	37.73	58.9	8.64	27.7
Sept. 7	23.44	68.6	37.98	44.6	37.89	59.0	8.89	24.8
17	23.92	65.9	38.20	42.7	38.08	58.9	9.23	22.2
27	24.46	63.4	38.46	41.2	38.31	58.5	9.65	20.0
Okt. 7	25.05	61.1	38.75	40.2	38.55	57.9	10.19	18.3
17	25.70	59.1	39.08	39.8	38.82	57.0	10.78	17.2
27	26.40	57.4	39.44	39.9	39.11	55.8	11.43	16.7
Nov. 6	27.12	56.1	39.82	40.6	39.43	54.4	12.10	16.9
16	27.86	55.3	40.20	42.0	39.75	52.8	12.78	17.7
26	28.60	54.9	40.58	43.8	40.08	51.0	13.44	19.2
Dez. 6	29.34	54.9	40.94	46.2	40.40	49.2	14.07	21.2
16	30.02	55.5	41.28	49.0	40.70	47.3	14.64	23.9
26	30.65	56.6	41.58	52.1	40.98	45.5	15.13	27.0
36	31.20	58.2	41.84	55.4	41.23	43.7	15.51	30.4
Mittl. Ort	23.97	76.9	38.84	53.4	37.85	54.9	12.31	32.1

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1909	83 Cancri. 6 ^m .7.		40 Lyncis. 3 ^m .2.		z Argus. 2 ^m .5.		α Hydrac. 2 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	9 ^h 13 ^m	18° 5'	9 ^h 15 ^m	34° 46'	9 ^h 19 ^m	54° 37'	9 ^h 23 ^m	8° 15'
Jan. 0	54.27	29.5	30.96	36.7	18.82	2.9	7.01	43.7
10	54.52 ²⁵	28.6 ⁹	31.24 ²⁸	36.7 ⁰	19.08 ²⁶	6.5 ³⁶	7.24 ²³	45.9 ²²
20	54.72 ²⁰	28.0 ⁶	31.47 ²³	37.1 ⁴	19.28 ²⁰	10.1 ³⁶	7.43 ¹⁹	48.0 ²¹
30	54.87 ¹⁵	27.7 ³	31.65 ¹⁸	37.8 ⁷	19.40 ¹²	13.8 ³⁷	7.57 ¹⁴	50.0 ²⁰
Febr. 9	54.98 ¹¹	27.6 ¹	31.77 ¹²	38.7 ⁹	19.44 ⁴	17.5 ³⁷	7.66 ⁹	51.7 ¹⁷
19	55.03 ⁵	27.6 ⁰	31.82 ⁵	39.8 ¹¹	19.44 ³	21.0 ³⁵	7.71 ⁵	53.2 ¹⁵
März 1	55.02 ¹	27.9 ³	31.82 ⁶	41.0 ¹²	19.41 ¹⁰	24.3 ³³	7.71 ⁰	54.5 ¹³
11	54.97 ⁵	28.4 ⁵	31.76 ⁰	42.3 ¹³	19.31 ¹⁶	27.3 ³⁰	7.66 ⁵	55.5 ¹⁰
21	54.89 ⁸	28.9 ⁵	31.67 ⁹	43.6 ¹³	19.15 ²¹	29.9 ²⁶	7.58 ⁸	56.2 ⁷
31	54.78 ¹¹	29.6 ⁷	31.53 ¹⁴	44.9 ¹³	18.94 ²⁵	32.1 ²²	7.47 ¹¹	56.7 ⁵
April 10	54.64 ¹⁴	30.2 ⁶	31.37 ¹⁶	46.0 ¹¹	18.69 ²⁹	33.8 ¹⁷	7.34 ¹³	57.0 ³
20	54.50 ¹⁴	30.8 ⁶	31.20 ¹⁷	46.9 ⁹	18.40 ³¹	35.1 ¹³	7.20 ¹⁴	57.0 ⁰
30	54.36 ¹⁴	31.4 ⁵	31.03 ¹⁷	47.7 ⁸	18.09 ³²	35.9 ⁸	7.06 ¹⁴	56.9 ¹
Mai 10	54.22 ¹⁴	31.9 ⁵	30.86 ¹⁷	48.2 ⁵	17.77 ³²	36.2 ³	6.92 ¹⁴	56.9 ⁴
20	54.09 ¹³	32.4 ⁵	30.70 ¹⁶	48.5 ³	17.45 ³¹	36.2 ²	6.79 ¹³	56.5 ⁶
30	53.98 ¹¹	32.8 ⁴	30.57 ¹³	48.5 ⁰	17.14 ²⁹	36.0 ⁷	6.79 ¹¹	55.9 ⁸
Juni 9	53.89 ⁹	33.1 ³	30.57 ¹¹	48.5 ¹	16.85 ²⁷	35.3 ¹²	6.68 ⁹	55.1 ⁸
19	53.89 ⁶	33.1 ²	30.46 ⁸	48.4 ⁴	16.58 ²⁴	34.1 ¹⁶	6.59 ⁸	54.3 ¹¹
29	53.83 ³	33.3 ²	30.38 ⁵	48.0 ⁶	16.34 ²⁰	32.5 ²⁰	6.51 ⁵	53.2 ¹¹
Juli 9	53.80 ¹	33.5 ⁰	30.33 ¹	47.4 ⁸	16.14 ¹⁷	30.5 ²⁴	6.46 ³	52.1 ¹²
19	53.79 ²	33.5 ¹	30.32 ²	46.6 ¹⁰	15.97 ¹¹	28.1 ²⁶	6.43 ⁰	50.9 ¹³
29	53.81 ⁵	33.4 ¹	30.34 ⁶	45.6 ¹¹	15.86 ⁷	25.5 ²⁸	6.43 ³	49.6 ¹²
Aug. 8	53.86 ⁸	33.3 ³	30.40 ⁸	44.5 ¹³	15.79 ¹	22.7 ³⁰	6.46 ⁶	48.4 ¹²
18	53.94 ¹²	33.0 ⁵	30.48 ¹⁴	43.2 ¹⁵	15.78 ⁶	19.7 ³²	6.52 ⁹	47.2 ¹²
28	54.06 ¹⁵	32.5 ⁶	30.62 ¹⁶	41.7 ¹⁵	15.84 ¹¹	16.5 ²⁹	6.61 ¹¹	46.0 ⁹
Sept. 7	54.21 ¹⁷	31.9 ⁷	30.78 ¹⁹	40.2 ¹⁶	15.95 ¹⁸	13.6 ²⁶	6.72 ¹⁴	45.1 ⁷
17	54.38 ²⁰	31.2 ⁹	30.97 ²³	38.6 ¹⁷	16.13 ²³	11.0 ²⁴	6.86 ¹⁸	44.4 ⁵
27	54.58 ²³	30.3 ¹¹	31.20 ²⁶	36.9 ¹⁷	16.36 ²⁹	8.6 ¹⁹	7.04 ²¹	43.9 ¹
Okt. 7	54.81 ²⁵	29.2 ¹²	31.46 ²⁹	35.2 ¹⁸	16.65 ³⁴	6.7 ¹⁵	7.25 ²³	43.8 ²
17	55.06 ²⁹	28.0 ¹³	31.75 ³²	33.4 ¹⁸	16.99 ³⁸	5.2 ⁹	7.48 ²⁶	44.0 ⁵
27	55.35 ³⁰	26.7 ¹⁵	32.07 ³⁵	31.6 ¹⁷	17.37 ⁴²	4.3 ²	7.74 ²⁹	44.5 ⁹
Nov. 6	55.65 ³³	25.2 ¹⁵	32.42 ³⁷	29.9 ¹⁶	17.79 ⁴⁵	4.1 ³	8.03 ³⁰	45.4 ¹³
16	55.98 ³⁴	23.7 ¹⁶	32.79 ³⁸	28.3 ¹⁵	18.24 ⁴⁶	4.4 ¹¹	8.33 ³²	46.7 ¹⁶
26	56.32 ³⁴	22.1 ¹⁶	33.17 ³⁹	26.8 ¹³	18.70 ⁴⁵	5.5 ¹⁶	8.65 ³³	48.3 ¹⁸
Dez. 6	56.66 ³⁴	20.5 ¹⁵	33.56 ³⁹	25.5 ¹⁰	19.15 ⁴⁴	7.1 ²²	8.98 ³²	50.1 ²⁰
16	57.00 ³³	19.0 ¹⁴	33.95 ³⁷	24.5 ⁸	19.59 ⁴¹	9.3 ²⁷	9.30 ³¹	52.1 ²²
26	57.33 ³⁰	17.6 ¹²	34.32 ³⁵	23.7 ⁵	20.00 ³⁵	12.0 ³¹	9.61 ²⁸	54.3 ²³
36	57.63 ²⁸	16.4 ¹⁰	34.67 ³¹	23.2 ¹	20.35 ³¹	15.1 ³⁴	9.89 ²⁶	56.6 ²³
	57.91	15.4	34.98	23.1	20.66	18.5	10.15	58.9
MITL. ORT	54.27	29.7	30.89	40.0	17.67	18.3	6.97	49.6
	350)		352)		353)		354)	

1909	h Ursae maj. 3 ^m .5.		d Ursae maj. 4 ^m .5.		ð Ursae maj. 3 ^m .1.		ψ Argus. 3 ^m .6.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	9 ^h 24 ^m	63° 27'	9 ^h 26 ^m	70° 13'	9 ^h 26 ^m	52° 5'	9 ^h 27 ^m	40° 3'
Jan. 0	22.70	29.9	28.43	43.5	46.94	26.7	7.39	51.4
10	23.17	31.1	29.03	45.1	47.30	27.6	7.63	54.7
20	23.56	32.9	29.52	47.2	47.61	28.8	7.82	58.0
30	23.86	35.1	29.89	49.6	47.85	30.4	7.96	61.4
Febr. 9	24.05	37.5	30.13	52.2	48.00	32.2	8.03	64.7
19	24.13	40.0	30.22	55.0	48.08	34.2	8.04	67.8
März 1	24.11	42.6	30.18	57.8	48.08	36.3	8.00	70.6
11	24.00	45.1	30.02	60.5	48.01	38.4	7.91	73.1
21	23.80	47.4	29.75	63.0	47.88	40.3	7.78	75.3
31	23.53	49.4	29.38	65.2	47.69	42.1	7.61	77.1
April 10	23.22	51.1	28.95	67.0	47.47	43.7	7.42	78.6
20	22.86	52.4	28.46	68.3	47.23	45.0	7.22	79.5
30	22.50	53.2	27.95	69.1	46.98	45.9	7.00	80.1
Mai 10	22.13	53.6	27.44	69.5	46.73	46.4	6.79	80.2
20	21.78	53.6	26.95	69.3	46.49	46.5	6.58	79.9
30	21.46	53.0	26.50	68.7	46.28	46.2	6.39	79.1
Juni 9	21.18	52.1	26.10	67.5	46.10	45.6	6.21	78.0
19	20.96	50.7	25.77	65.9	45.96	44.6	6.06	76.5
29	20.79	49.0	25.52	64.0	45.85	43.3	5.93	74.7
Juli 9	20.69	46.9	25.34	61.7	45.79	41.7	5.84	72.6
19	20.65	44.6	25.26	59.1	45.78	39.9	5.78	70.2
29	20.68	42.0	25.26	56.3	45.81	37.9	5.75	67.7
Aug. 8	20.78	39.3	25.37	53.3	45.90	35.6	5.77	65.2
18	20.96	36.2	25.58	49.9	46.04	33.0	5.83	62.4
28	21.20	33.4	25.86	46.8	46.22	30.6	5.93	60.0
Sept. 7	21.50	30.5	26.24	43.7	46.44	28.1	6.08	57.7
17	21.87	27.7	26.70	40.8	46.71	25.6	6.26	55.8
27	22.30	25.0	27.24	37.9	47.03	23.2	6.49	54.3
Okt. 7	22.78	22.5	27.86	35.3	47.39	20.9	6.76	53.3
17	23.31	20.2	28.54	32.9	47.79	18.7	7.07	52.7
27	23.89	18.2	29.28	30.9	48.23	16.7	7.40	52.8
Nov. 6	24.51	16.6	30.07	29.3	48.69	14.9	7.76	53.4
16	25.15	15.3	30.88	28.1	49.18	13.5	8.14	54.6
26	25.80	14.5	31.71	27.4	49.67	12.4	8.51	56.3
Dez. 6	26.45	14.1	32.53	27.2	50.16	11.7	8.88	58.5
16	27.07	14.3	33.32	27.6	50.64	11.4	9.23	61.1
26	27.64	15.0	34.05	28.5	51.08	11.5	9.54	64.1
36	28.16	16.1	34.71	29.9	51.49	12.1	9.82	67.3
Mittl. Ort	21.97	37.2	27.20	51.5	46.65	33.1	6.88	64.6

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1909	10 Leon. min. 4 ^m .6.		θ Antliae. 5 ^m .0.		ε Leonis. 3 ^m .0.		ν Ursae maj. 3 ^m .8.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	9 ^h 28 ^m	36° 47'	9 ^h 40 ^m	27° 20'	9 ^h 40 ^m	24° 11'	9 ^h 44 ^m	59° 27'
Jan. 0	39.19	63.4	8.84	58.0	41.22	35.4	32.11	54.2
10	39.50	63.4	9.09	60.9	41.50	34.7	32.56	55.2
20	39.75	63.8	9.29	63.9	41.74	34.4	32.94	56.6
30	39.94	64.5	9.44	66.8	41.93	34.3	33.24	58.5
Febr. 9	40.08	65.5	9.54	69.5	42.06	34.5	33.45	60.6
19	40.15	66.7	9.59	72.1	42.14	34.9	33.57	62.9
März 1	40.16	68.1	9.59	74.4	42.17	35.5	33.59	65.3
11	40.12	69.5	9.54	76.5	42.14	36.3	33.53	67.8
21	40.04	71.0	9.45	78.3	42.08	37.2	33.39	70.1
31	39.91	72.3	9.33	79.7	41.98	38.1	33.19	72.2
April 10	39.76	73.6	9.18	80.7	41.86	39.1	32.94	74.1
20	39.59	74.6	9.03	81.4	41.72	39.9	32.65	75.5
30	39.41	75.5	8.86	81.7	41.58	40.7	32.34	76.6
Mai 10	39.24	76.1	8.70	81.8	41.43	41.4	32.03	77.3
20	39.07	76.5	8.54	81.4	41.30	41.9	31.73	77.5
30	38.93	76.6	8.39	80.8	41.18	42.3	31.45	77.3
Juni 9	38.81	76.4	8.25	79.8	41.08	42.6	31.20	76.6
19	38.72	76.0	8.14	78.5	41.00	42.6	30.99	75.5
29	38.66	75.4	8.05	76.9	40.94	42.5	30.82	74.0
Juli 9	38.63	74.5	7.98	75.2	40.91	42.3	30.71	72.2
19	38.64	73.4	7.94	73.3	40.91	41.9	30.65	70.1
29	38.68	72.2	7.93	71.3	40.94	41.4	30.64	67.8
Aug. 8	38.75	70.8	7.95	69.2	40.99	40.7	30.70	65.3
18	38.87	69.1	8.01	67.0	41.09	39.7	30.82	62.3
28	39.02	67.4	8.10	65.1	41.20	38.7	30.99	59.5
Sept. 7	39.21	65.6	8.23	63.5	41.35	37.6	31.22	56.7
17	39.42	63.7	8.39	62.0	41.53	36.3	31.50	53.8
27	39.67	61.8	8.58	61.0	41.75	34.8	31.85	51.0
Okt. 7	39.96	59.9	8.82	60.4	41.99	33.2	32.26	48.4
17	40.28	58.0	9.09	60.2	42.27	31.6	32.71	45.9
27	40.63	56.2	9.39	60.5	42.57	29.8	33.20	43.6
Nov. 6	41.00	54.4	9.71	61.3	42.90	28.0	33.74	41.6
16	41.39	52.8	10.05	62.6	43.25	26.3	34.30	40.0
26	41.79	51.4	10.39	64.3	43.61	24.6	34.88	38.8
Dec. 6	42.19	50.3	10.73	66.5	43.97	23.1	35.45	38.1
16	42.57	49.4	11.06	69.0	44.32	21.7	36.02	37.9
26	42.93	48.9	11.37	71.7	44.65	20.6	36.55	38.2
36	43.26	48.8	11.64	74.6	44.95	19.7	37.04	38.9
Mitt. Ort	39.16	67.3	8.67	69.1	41.31	37.1	31.68	62.0

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1909	u Argus. 3 ^m .0.		6 Sextantis. 6 ^m .2.		Gr. 1586. 6 ^m .3.		π Leonis. 4 ^m .9.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +
	9 ^h 44 ^m	64° 38'	9 ^h 46 ^m	3° 48'	9 ^h 50 ^m	73° 18'	9 ^h 55 ^m	8° 28'
Jan. 0	51.29	40.1	38.85	54.3	17.52	36.6	24.19	54.3
10	51.66	43.5	39.09	56.4	18.27	38.1	24.46	52.8
20	51.94	47.2	39.30	58.3	18.89	40.1	24.69	51.4
30	52.12	51.0	39.47	60.1	19.38	42.5	24.87	50.4
Febr. 9	52.20	54.8	39.59	61.6	19.71	45.1	25.01	49.6
19	52.19	58.6	39.66	62.9	19.90	48.0	25.09	49.0
März 1	52.09	62.2	39.68	64.0	19.92	50.8	25.13	48.6
11	51.91	65.6	39.66	64.8	19.79	53.7	25.12	48.5
21	51.65	68.7	39.60	65.4	19.52	56.4	25.08	48.6
31	51.33	71.4	39.52	65.7	19.14	58.8	25.00	48.9
April 10	50.96	73.7	39.41	65.8	18.67	60.8	24.90	49.2
20	50.55	75.5	39.28	65.8	18.12	62.4	24.78	49.7
30	50.12	76.9	39.15	65.6	17.53	63.6	24.65	50.2
Mai 10	49.67	77.7	39.02	65.2	16.92	64.2	24.53	50.8
20	49.22	78.0	38.90	64.7	16.32	64.2	24.41	51.4
30	48.79	77.8	38.79	64.0	15.75	63.7	24.29	51.9
Juni 9	48.37	77.1	38.69	63.3	15.22	62.7	24.20	52.5
19	47.98	75.8	38.61	62.4	14.76	61.3	24.12	53.1
29	47.63	74.1	38.55	61.5	14.38	59.4	24.06	53.6
Juli 9	47.33	72.0	38.51	60.5	14.10	57.2	24.02	54.0
19	47.09	69.5	38.50	59.6	13.91	54.6	24.01	54.4
29	46.92	66.8	38.51	58.6	13.82	51.7	24.01	54.7
Aug. 8	46.82	63.8	38.55	57.7	13.83	48.6	24.05	54.9
18	46.79	60.4	38.62	56.9	13.96	45.4	24.11	55.0
28	46.86	57.4	38.71	56.3	14.22	41.8	24.21	54.8
Sept. 7	47.01	54.5	38.84	55.8	14.57	38.5	24.33	54.5
17	47.25	51.8	38.99	55.6	15.02	35.3	24.49	54.1
27	47.57	49.4	39.18	55.7	15.58	32.2	24.67	53.3
Okt. 7	47.97	47.5	39.39	56.1	16.22	29.3	24.88	52.3
17	48.43	46.2	39.64	56.8	16.95	26.6	25.13	51.1
27	48.95	45.4	39.92	57.8	17.76	24.2	25.41	49.7
Nov. 6	49.51	45.3	40.22	59.2	18.64	22.3	25.71	48.1
16	50.09	45.8	40.53	60.8	19.56	20.8	26.03	46.4
26	50.68	46.9	40.86	62.6	20.50	19.8	26.36	44.6
Dez. 6	51.25	48.7	41.19	64.6	21.46	19.3	26.69	42.7
16	51.79	51.1	41.51	66.7	22.39	19.5	27.02	40.8
26	52.27	54.0	41.81	68.9	23.26	20.2	27.34	39.0
36	52.68	57.2	42.08	71.0	24.06	21.4	27.62	37.3
Mittl. Ort	49.66	58.7	38.93	59.7	16.12	45.8	24.36	52.1

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1909	γ Leonis. 3 ^m .4.		α Leonis. 1 ^m .3.		λ Hydrae. 3 ^m .7.		γ Velorum. 3 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	10 ^h 2 ^m	17° 12'	10 ^h 3 ^m	12° 24'	10 ^h 6 ^m	11° 54'	10 ^h 10 ^m	41° 39'
Jan. 0	22.20 ²⁹	24.1 ¹²	31.43 ²⁸	45.2 ¹⁴	8.98 ²⁶	6.5 ²⁴	55.03 ³⁰	58.9 ³²
10	22.49 ²⁴	22.9 ⁹	31.71 ²⁴	43.8 ¹¹	9.24 ²³	8.9 ²³	55.33 ²⁵	62.1 ³³
20	22.73 ²⁰	22.0 ⁶	31.95 ¹⁹	42.7 ⁹	9.47 ¹⁸	11.2 ²²	55.58 ¹⁹	65.4 ³³
30	22.93 ¹⁵	21.4 ³	32.14 ¹⁵	41.8 ⁶	9.65 ¹³	13.4 ²⁰	55.77 ¹⁴	68.7 ³⁴
Febr. 9	23.08 ¹⁰	21.1 ⁰	32.29 ⁹	41.2 ⁴	9.78 ⁹	15.4 ¹⁹	55.91 ⁷	72.1 ³²
19	23.18 ⁴	21.1 ²	32.38 ⁵	40.8 ¹	9.87 ⁴	17.3 ¹⁶	55.98 ²	75.3 ³¹
März 1	23.22 ⁰	21.3 ⁴	32.43 ⁰	40.7 ¹	9.91 ¹	18.9 ¹³	56.00 ⁴	78.4 ²⁸
11	23.22 ⁴	21.7 ⁵	32.43 ⁴	40.8 ³	9.90 ⁴	20.2 ¹⁰	55.96 ⁸	81.2 ²⁵
21	23.18 ⁷	22.2 ⁷	32.39 ⁷	41.1 ⁵	9.86 ⁸	21.2 ⁸	55.88 ¹²	83.7 ²²
31	23.11 ¹⁰	22.9 ⁸	32.32 ¹⁰	41.6 ⁵	9.78 ¹⁰	22.0 ⁶	55.76 ¹⁶	85.9 ¹⁹
April 10	23.01 ¹²	23.7 ⁷	32.22 ¹¹	42.1 ⁶	9.68 ¹²	22.6 ³	55.60 ¹⁷	87.8 ¹⁴
20	22.89 ¹³	24.4 ⁷	32.11 ¹²	42.7 ⁶	9.56 ¹³	22.9 ⁰	55.43 ²⁰	89.2 ¹⁰
30	22.76 ¹³	25.1 ⁷	31.99 ¹³	43.3 ⁷	9.43 ¹³	22.9 ²	55.23 ²⁰	90.2 ⁶
Mai 10	22.63 ¹²	25.8 ⁶	31.86 ¹³	44.0 ⁶	9.30 ¹³	22.7 ⁴	55.03 ²⁰	90.8 ²
20	22.51 ¹²	26.4 ⁶	31.73 ¹¹	44.6 ⁶	9.17 ¹¹	22.3 ⁵	54.83 ²⁰	91.0 ³
30	22.39 ¹⁰	27.0 ⁴	31.62 ¹⁰	45.2 ⁵	9.06 ¹¹	21.8 ⁸	54.63 ¹⁹	90.7 ⁷
Juni 9	22.29 ⁸	27.4 ⁴	31.52 ⁸	45.7 ⁴	8.95 ¹⁰	21.0 ⁹	54.44 ¹⁸	90.0 ¹¹
19	22.21 ⁷	27.8 ²	31.44 ⁶	46.1 ⁴	8.85 ⁸	20.1 ¹¹	54.26 ¹⁵	88.9 ¹⁴
29	22.14 ⁴	28.0 ¹	31.38 ⁵	46.5 ³	8.77 ⁶	19.0 ¹²	54.11 ¹³	87.5 ¹⁸
Juli 9	22.10 ²	28.1 ⁰	31.33 ²	46.8 ²	8.71 ³	17.8 ¹²	53.98 ¹¹	85.7 ²⁰
19	22.08 ⁰	28.1 ²	31.31 ⁰	47.0 ¹	8.68 ¹	16.6 ¹³	53.87 ⁷	83.7 ²³
29	22.08 ³	27.9 ³	31.31 ³	47.1 ⁰	8.67 ¹	15.3 ¹²	53.80 ⁴	81.4 ²⁴
Aug. 8	22.11 ⁶	27.6 ⁵	31.34 ⁶	47.1 ²	8.68 ⁴	14.1 ¹²	53.76 ⁰	79.0 ²⁵
18	22.17 ¹⁰	27.1 ⁷	31.40 ⁹	46.9 ⁴	8.72 ⁸	12.9 ¹²	53.76 ⁵	76.5 ²⁶
28	22.27 ¹²	26.4 ⁸	31.49 ¹¹	46.5 ⁶	8.80 ¹⁰	11.7 ⁹	53.81 ⁹	73.9 ²³
Sept. 7	22.39 ¹⁵	25.6 ¹⁰	31.60 ¹⁵	45.9 ⁷	8.90 ¹³	10.8 ⁶	53.90 ¹⁴	71.6 ²¹
17	22.54 ¹⁹	24.6 ¹²	31.75 ¹⁸	45.2 ¹⁰	9.03 ¹⁷	10.2 ³	54.04 ¹⁸	69.5 ¹⁷
27	22.73 ²¹	23.4 ¹⁴	31.93 ²¹	44.2 ¹¹	9.20 ²⁰	9.9 ⁰	54.22 ²⁴	67.8 ¹⁴
Okt. 7	22.94 ²⁵	22.0 ¹⁵	32.14 ²⁴	43.1 ¹⁴	9.40 ²³	9.9 ⁴	54.46 ²⁸	66.4 ⁹
17	23.19 ²⁹	20.5 ¹⁷	32.38 ²⁸	41.7 ¹⁵	9.63 ²⁷	10.3 ⁷	54.74 ³¹	65.5 ⁴
27	23.48 ³⁰	18.8 ¹⁸	32.66 ³⁰	40.2 ¹⁸	9.90 ³⁰	11.0 ¹¹	55.05 ³⁵	65.1 ²
Nov. 6	23.78 ³³	17.0 ¹⁹	32.96 ³²	38.4 ¹⁸	10.20 ³¹	12.1 ¹⁵	55.40 ³⁸	65.3 ⁸
16	24.11 ³⁴	15.1 ¹⁹	33.28 ³³	36.6 ¹⁸	10.51 ³³	13.6 ¹⁸	55.78 ³⁹	66.1 ¹³
26	24.45 ³⁵	13.2 ¹⁸	33.61 ³⁵	34.8 ¹⁹	10.84 ³³	15.4 ²⁰	56.17 ³⁹	67.4 ¹⁹
Dez. 6	24.80 ³⁴	11.4 ¹⁷	33.96 ³³	32.9 ¹⁸	11.17 ³³	17.4 ²³	56.56 ³⁷	69.3 ²³
16	25.14 ³³	9.7 ¹⁵	34.29 ³²	31.1 ¹⁷	11.50 ³¹	19.7 ²⁴	56.93 ³⁶	71.6 ²⁷
26	25.47 ³¹	8.2 ¹³	34.61 ³⁰	29.4 ¹⁵	11.81 ²⁸	22.1 ²⁴	57.29 ³³	74.3 ³¹
36	25.78	6.9	34.91	27.9	12.09	24.5	57.62	77.4
Mittl. Ort	22.39	24.2	31.63	44.0	9.11	14.4	54.81	74.8
	(379)		(380)		(381)		(382)	

1909	λ Ursae maj. 3 ^m .4.		ζ Leonis. 3 ^m .4.		μ Ursae maj. 3 ^m .0.		30H. Urs. maj. 5 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	10 ^h 11 ^m	43° 21'	10 ^h 11 ^m	23° 51'	10 ^h 16 ^m	41° 57'	10 ^h 17 ^m	66° 1'
Jan. 0	36.72	62.4	37.68	74.1	54.62	20.7	35.39	27.3
10	37.09	62.4	37.98	73.2	54.99	20.6	35.98	28.2
20	37.40	62.9	38.24	72.6	55.30	20.9	36.50	29.6
30	37.66	63.7	38.46	72.4	55.56	21.6	36.92	31.5
Febr. 9	37.86	64.9	38.62	72.5	55.76	22.7	37.23	33.8
19	38.00	66.4	38.73	72.8	55.90	24.1	37.44	36.3
März 1	38.06	68.1	38.79	73.4	55.97	25.7	37.54	39.0
11	38.07	69.9	38.81	74.2	55.98	27.5	37.53	41.7
21	38.02	71.8	38.77	75.1	55.94	29.3	37.41	44.3
31	37.92	73.6	38.70	76.1	55.85	31.1	37.21	46.8
April 10	37.78	75.3	38.60	77.1	55.73	32.8	36.93	49.0
20	37.62	76.8	38.48	78.1	55.57	34.3	36.60	50.9
30	37.44	78.1	38.35	79.1	55.40	35.6	36.22	52.3
Mai 10	37.25	79.0	38.21	79.9	55.21	36.6	35.83	53.3
20	37.06	79.7	38.08	80.6	55.03	37.3	35.43	53.8
30	36.88	80.0	37.96	81.1	54.86	37.7	35.04	53.8
Juni 9	36.72	79.9	37.85	81.5	54.70	37.7	34.67	53.4
19	36.58	79.6	37.75	81.6	54.57	37.5	34.34	52.4
29	36.47	78.9	37.68	81.7	54.46	36.9	34.06	51.0
Juli 9	36.39	77.9	37.63	81.5	54.38	36.0	33.84	49.2
19	36.34	76.6	37.60	81.1	54.32	34.8	33.68	47.0
29	36.33	75.1	37.59	80.6	54.30	33.3	33.58	44.5
Aug. 8	36.34	73.4	37.62	79.9	54.32	31.7	33.54	41.7
18	36.40	71.4	37.67	79.1	54.36	29.8	33.58	38.7
28	36.50	69.1	37.76	77.9	54.46	27.5	33.71	35.3
Sept. 7	36.64	66.8	37.87	76.7	54.59	25.3	33.90	32.1
17	36.82	64.4	38.02	75.3	54.76	23.0	34.17	28.9
27	37.04	62.0	38.20	73.7	54.97	20.5	34.51	25.7
Okt. 7	37.30	59.5	38.42	72.0	55.22	18.1	34.92	22.6
17	37.61	57.1	38.68	70.2	55.51	15.6	35.41	19.7
27	37.95	54.7	38.96	68.2	55.84	13.3	35.95	17.1
Nov. 6	38.33	52.5	39.27	66.3	56.21	11.0	36.56	14.7
16	38.73	50.5	39.61	64.3	56.60	8.9	37.21	12.7
26	39.15	48.7	39.96	62.4	57.01	7.1	37.89	11.2
Dez. 6	39.59	47.3	40.33	60.6	57.44	5.5	38.59	10.2
16	40.02	46.2	40.68	59.0	57.86	4.4	39.28	9.6
26	40.43	45.5	41.03	57.7	58.27	3.6	39.95	9.7
36	40.82	45.3	41.35	56.6	58.65	3.3	40.57	10.3
Mittl. Ort	36.81	68.7	37.90	76.0	54.74	26.8	34.87	37.1

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1909	μ Hydrae. 3 ^m .9.		31 Leon. min. 4 ^m .2.		J Carinae. 4 ^m .1.		Lac. α Antliae. 4 ^m .2.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	10 ^h 21 ^m	16° 22'	10 ^h 22 ^m	37° 10'	10 ^h 22 ^m	73° 33'	10 ^h 22 ^m	30° 36'
Jan. 0	41.16	7.9	37.32	20.5	37.61	43.6	59.13	1.6
10	41.44	10.5	37.66	20.1	38.22	46.6	59.42	4.5
20	41.68	13.0	37.97	20.1	38.70	50.1	59.66	7.5
30	41.87	15.4	38.22	20.6	39.06	53.8	59.86	10.5
Febr. 9	42.02	17.7	38.42	21.4	39.28	57.6	60.01	13.4
19	42.12	19.8	38.56	22.5	39.37	61.5	60.11	16.2
März 1	42.17	21.6	38.64	23.9	39.32	65.4	60.15	18.8
11	42.18	23.3	38.66	25.4	39.15	69.1	60.15	21.2
21	42.14	24.6	38.63	27.0	38.86	72.6	60.10	23.3
31	42.08	25.7	38.55	28.6	38.46	75.9	60.02	25.0
April 10	41.99	26.5	38.44	30.2	37.97	78.7	59.91	26.5
20	41.88	27.0	38.31	31.6	37.42	81.2	59.78	27.6
30	41.75	27.2	38.15	32.8	36.80	83.3	59.63	28.3
Mai 10	41.62	27.2	37.99	33.8	36.14	84.8	59.48	28.7
20	41.49	27.0	37.83	34.6	35.45	85.8	59.32	28.7
30	41.37	26.5	37.67	35.1	34.75	86.3	59.16	28.4
Juni 9	41.25	25.7	37.53	35.3	34.06	86.2	59.01	27.8
19	41.15	24.8	37.40	35.1	33.39	85.7	58.88	26.8
29	41.06	23.8	37.30	34.7	32.76	84.5	58.76	25.5
Juli 9	40.98	22.5	37.22	34.1	32.19	82.9	58.66	24.0
19	40.93	21.2	37.17	33.1	31.68	80.9	58.58	22.3
29	40.90	19.8	37.15	31.9	31.27	78.4	58.53	20.4
Aug. 8	40.90	18.4	37.16	30.5	30.95	75.7	58.50	18.4
18	40.92	17.0	37.20	28.9	30.75	72.7	58.50	16.4
28	40.98	15.7	37.28	26.9	30.68	69.4	58.55	14.3
Sept. 7	41.06	14.6	37.40	24.9	30.75	66.3	58.63	12.5
17	41.18	13.7	37.55	22.7	30.95	63.3	58.75	10.9
27	41.33	13.1	37.74	20.5	31.30	60.6	58.91	9.6
Okt. 7	41.53	12.9	37.97	18.2	31.77	58.2	59.11	8.7
17	41.75	13.0	38.24	15.8	32.36	56.3	59.35	8.2
27	42.01	13.6	38.55	13.5	33.05	54.9	59.63	8.2
Nov. 6	42.31	14.5	38.89	11.3	33.82	54.1	59.94	8.6
16	42.62	15.9	39.26	9.1	34.64	53.9	60.28	9.6
26	42.95	17.6	39.66	7.2	35.48	54.4	60.63	11.0
Dez. 6	43.29	19.6	40.06	5.5	36.33	55.6	60.99	12.9
16	43.62	21.8	40.46	4.2	37.14	57.4	61.35	15.2
26	43.94	24.2	40.85	3.2	37.88	59.7	61.69	17.8
36	44.24	26.8	41.21	2.6	38.54	62.6	61.99	20.6
mitt. Ort	41.34	17.5	37.52	25.7	35.42	65.7	59.19	15.2

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1909	ε Carinae. 4 ^m .I.		36 Ursae maj. 4 ^m .8.		9 H. Draconis. 4 ^m .9.		33 Sextantis. 6 ^m .6.	
	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	10 ^h 24 ^m	58° 16'	10 ^h 24 ^m	56° 26'	10 ^h 27 ^m	76° 10'	10 ^h 36 ^m	1° 15'
Jan. 0	32.81 ³⁸	8.4 ³¹	48.72 ⁴⁶	42.2 ⁵	24.55 ⁹⁶	45.0 ¹¹	46.12 ²⁹	41.6 ²¹
10	33.19 ³²	11.5 ³⁵	49.18 ⁴¹	42.7 ⁹	25.51 ⁸³	46.1 ¹⁷	46.41 ²⁵	43.7 ¹⁹
20	33.51 ²⁵	15.0 ³⁶	49.59 ³⁴	43.6 ¹⁴	26.34 ⁶⁹	47.8 ²¹	46.66 ²¹	45.6 ¹⁷
30	33.76 ¹⁷	18.6 ³⁸	49.93 ²⁶	45.0 ¹⁷	27.03 ⁵³	49.9 ²⁶	46.87 ¹⁷	47.3 ¹⁵
Febr. 9	33.93 ⁹	22.4 ³⁷	50.19 ¹⁸	46.7 ²¹	27.56 ³⁴	52.5 ²⁸	47.04 ¹²	48.8 ¹²
19	34.02 ¹	26.1 ³⁶	50.37 ¹⁰	48.8 ²³	27.90 ¹⁶	55.3 ³⁰	47.16 ⁸	50.0 ¹¹
März 1	34.03 ⁵	29.7 ³⁴	50.47 ²	51.1 ²⁴	28.06 ²	58.3 ²⁹	47.24 ³	51.1 ⁷
11	33.98 ¹²	33.1 ³²	50.49 ⁶	53.5 ²⁴	28.04 ¹⁹	61.2 ³⁰	47.27 ¹	51.8 ⁵
21	33.86 ¹⁸	36.3 ²⁹	50.43 ¹³	55.9 ²³	27.85 ³⁶	64.2 ²⁷	47.26 ⁵	52.3 ³
31	33.68 ²³	39.2 ²⁵	50.30 ¹⁸	58.2 ²¹	27.49 ⁴⁸	66.9 ²³	47.21 ⁷	52.6 ¹
April 10	33.45 ²⁶	41.7 ²²	50.12 ²²	60.3 ¹⁸	27.01 ⁶⁰	69.2 ²⁰	47.14 ⁹	52.7 ¹
20	33.19 ²⁹	43.9 ¹⁶	49.90 ²⁵	62.1 ¹⁶	26.41 ⁶⁷	71.2 ¹⁶	47.05 ¹⁰	52.6 ³
30	32.90 ³²	45.5 ¹²	49.65 ²⁷	63.7 ¹¹	25.74 ⁷²	72.8 ¹⁰	46.95 ¹²	52.3 ³
Mai 10	32.58 ³²	46.7 ⁷	49.38 ²⁷	64.8 ⁷	25.02 ⁷⁴	73.8 ⁴	46.83 ¹¹	52.0 ⁵
20	32.26 ³³	47.4 ²	49.11 ²⁶	65.5 ²	24.28 ⁷³	74.2 ⁰	46.72 ¹¹	51.5 ⁶
30	31.93 ³²	47.6 ³	48.85 ²⁵	65.7 ²	23.55 ⁷⁰	74.2 ⁶	46.61 ¹¹	50.9 ⁶
Juni 9	31.61 ³⁰	47.3 ⁸	48.60 ²²	65.5 ⁶	22.85 ⁶⁵	73.6 ¹²	46.50 ⁹	50.3 ⁷
19	31.31 ²⁸	46.5 ¹³	48.38 ¹⁹	64.9 ¹⁰	22.20 ⁵⁷	72.4 ¹⁶	46.41 ⁸	49.6 ⁸
29	30.03 ²⁶	45.2 ¹⁷	48.19 ¹⁵	63.9 ¹⁴	21.63 ⁴⁸	70.8 ²¹	46.33 ⁷	48.8 ⁸
Juli 9	30.77 ²²	43.5 ²¹	48.04 ¹¹	62.5 ¹⁸	21.15 ³⁸	68.7 ²⁴	46.26 ⁴	48.1 ⁸
19	30.55 ¹⁷	41.4 ²⁴	47.93 ⁷	60.7 ²¹	20.77 ²⁷	66.3 ²⁸	46.22 ³	47.3 ⁻
29	30.38 ¹³	39.0 ²⁷	47.86 ¹	58.6 ²⁴	20.50 ¹⁵	63.5 ³¹	46.19 ¹	46.6 ⁶
Aug. 8	30.25 ⁶	36.3 ²⁸	47.85 ³	56.2 ²⁵	20.35 ²	60.4 ³²	46.18 ²	46.0 ⁵
18	30.19 ⁰	33.5 ³²	47.88 ⁹	53.7 ³¹	20.33 ¹⁰	57.2 ³⁵	46.20 ⁴	45.5 ⁴
28	30.19 ⁷	30.3 ²⁸	47.97 ¹⁴	50.6 ²⁹	20.43 ²⁶	53.7 ³⁸	46.24 ⁸	45.1 ²
Sept. 7	30.26 ¹⁴	27.5 ²⁶	48.11 ²⁰	47.7 ²⁹	20.69 ³⁷	49.9 ³⁶	46.32 ¹¹	44.9 ⁰
17	30.40 ²¹	24.9 ²⁴	48.31 ²⁵	44.8 ³⁰	21.06 ⁵⁰	46.3 ³⁴	46.43 ¹⁴	44.9 ³
27	30.61 ²⁸	22.5 ²⁰	48.56 ³¹	41.8 ²⁹	21.56 ⁶³	42.9 ³³	46.57 ¹⁸	45.2 ⁵
Okt. 7	30.89 ³⁵	20.5 ¹⁶	48.87 ³⁶	38.9 ²⁹	22.19 ⁷⁴	39.6 ³¹	46.75 ²¹	45.7 ⁸
17	31.24 ⁴⁰	18.9 ¹⁰	49.23 ⁴¹	36.0 ²⁷	22.93 ⁸⁵	36.5 ²⁸	46.96 ²⁵	46.5 ¹¹
27	31.64 ⁴⁵	17.9 ⁴	49.64 ⁴⁵	33.3 ²⁴	23.78 ⁹⁵	33.7 ²⁴	47.21 ²⁸	47.6 ¹⁴
Nov. 6	32.09 ⁴⁹	17.5 ²	50.09 ⁴⁹	30.9 ²¹	24.73 ¹⁰²	31.3 ²⁰	47.49 ³⁰	49.0 ¹⁷
16	32.58 ⁵¹	17.7 ⁸	50.58 ⁵³	28.8 ¹⁸	25.75 ¹⁰⁸	29.3 ¹⁵	47.79 ³²	50.7 ¹⁹
26	33.09 ⁵⁰	18.5 ¹⁵	51.11 ⁵³	27.0 ¹⁴	26.83 ¹¹⁰	27.8 ⁹	48.11 ³⁴	52.6 ²⁰
Dez. 6	33.59 ⁵⁰	20.0 ²⁰	51.64 ⁵⁴	25.6 ⁸	27.93 ¹¹¹	26.9 ⁴	48.45 ³³	54.6 ²²
16	34.09 ⁴⁶	22.0 ²⁶	52.18 ⁵²	24.8 ⁴	29.04 ¹⁰⁶	26.5 ²	48.78 ³²	56.8 ²¹
26	34.55 ⁴²	24.6 ³⁰	52.70 ⁵⁰	24.4 ¹	30.10 ¹⁰⁰	26.7 ⁹	49.10 ³¹	58.9 ²¹
36	34.97	27.6	53.20	24.5	31.10	27.6	49.41	61.0
Mitt. Ort	32.16	28.4	48.63	51.0	23.14	55.8	46.46	46.9

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1909	θ Argus. 2 ^m .8.		42 Leon. min. 5 ^m .3.		μ Argus. 2 ^m .7.		ι Leonis. 5 ^m .4.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl. +
	10 ^h 39 ^m	63° 54'	10 ^h 40 ^m	31° 9'	10 ^h 42 ^m	48° 56'	10 ^h 44 ^m	II° I'
Jan. 0	43.25	41.2	48.16	38.6	51.24	2.3	28.12	38.4
10	43.71	44.2	48.50	37.8	51.60	5.3	28.43	36.8
20	44.11	47.5	48.80	37.4	51.90	8.6	28.70	35.4
30	44.42	51.2	49.06	37.4	52.15	12.0	28.93	34.3
Febr. 9	44.63	54.9	49.26	37.7	52.34	15.5	29.11	33.5
19	44.76	58.7	49.41	38.4	52.46	19.0	29.24	32.9
März 1	44.80	62.5	49.51	39.4	52.52	22.4	29.33	32.7
11	44.76	66.1	49.55	40.6	52.52	25.6	29.37	32.7
21	44.63	69.6	49.55	42.0	52.47	28.6	29.37	32.9
31	44.44	72.7	49.50	43.4	52.37	31.3	29.34	33.3
April 10	44.19	75.5	49.42	44.8	52.23	33.6	29.27	33.8
20	43.89	77.9	49.30	46.2	52.05	35.6	29.19	34.5
30	43.55	79.9	49.18	47.4	51.85	37.1	29.08	35.2
Mai 10	43.17	81.5	49.04	48.5	51.64	38.2	28.97	35.9
20	42.78	82.5	48.90	49.3	51.41	38.9	28.86	36.5
30	42.38	83.0	48.76	50.0	51.18	39.1	28.75	37.2
Juni 9	41.98	83.0	48.63	50.4	50.95	38.9	28.65	37.8
19	41.59	82.4	48.51	50.5	50.73	38.2	28.55	38.3
29	41.22	81.4	48.41	50.4	50.52	37.1	28.47	38.7
Juli 9	40.87	79.9	48.33	50.1	50.33	35.6	28.40	39.1
19	40.57	78.0	48.27	49.5	50.17	33.7	28.35	39.4
29	40.32	75.7	48.24	48.6	50.04	31.6	28.32	39.5
Aug. 8	40.13	73.1	48.23	47.5	49.94	29.2	28.32	39.5
18	40.00	70.3	48.25	46.2	49.88	26.7	28.33	39.3
28	39.95	67.3	48.30	44.7	49.87	24.1	28.37	39.0
Sept. 7	39.99	64.1	48.39	42.9	49.92	21.3	28.45	38.4
17	40.11	61.3	48.52	41.0	50.03	18.9	28.55	37.6
27	40.32	58.7	48.67	38.9	50.19	16.8	28.69	36.7
Okt. 7	40.62	56.4	48.87	36.8	50.40	15.0	28.87	35.5
17	40.99	54.5	49.11	34.5	50.68	13.6	29.08	34.0
27	41.43	53.2	49.39	32.2	51.00	12.7	29.33	32.4
Nov. 6	41.96	52.5	49.70	29.9	51.37	12.4	29.60	30.6
16	42.51	52.4	50.04	27.7	51.77	12.7	29.91	28.7
26	43.09	52.9	50.40	25.6	52.20	13.6	30.23	26.6
Dez. 6	43.68	54.0	50.78	23.7	52.63	15.0	30.57	24.6
16	44.26	55.8	51.16	22.0	53.06	17.0	30.91	22.6
26	44.81	58.2	51.53	20.7	53.48	19.4	31.25	20.7
36	45.31	61.0	51.89	19.7	53.86	22.3	31.56	19.0
Mitt. Ori	42.49	62.9	48.49	42.7	51.13	21.3	28.52	36.8

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409)

1909	♄ Velorum. 4 ^m .5.		♃ Ursae maj. 2 ^m .3.		α Ursae maj. 1 ^m .8.		γ Leonis. 4 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	10 ^h 55 ^m	41° 43'	10 ^h 56 ^m	56° 51'	10 ^h 58 ^m	62° 14'	11 ^h 0 ^m	7° 49'
Jan. 0	58.46	57.9	21.32	63.7	7.25	22.2	18.97	43.9
10	58.80	60.8	21.82	63.8	7.81	22.5	19.27	42.1
20	59.10	63.8	22.26	64.4	8.32	23.3	19.55	40.5
30	59.35	67.1	22.65	65.5	8.76	24.6	19.78	39.2
Febr. 9	59.55	70.4	22.96	67.1	9.12	26.4	19.98	38.1
19	59.69	73.6	23.20	69.1	9.39	28.6	20.13	37.4
März 1	59.77	76.8	23.35	71.4	9.56	31.1	20.23	36.9
11	59.80	79.7	23.42	73.8	9.64	33.7	20.28	36.7
21	59.78	82.5	23.41	76.3	9.63	36.4	20.30	36.7
31	59.72	84.9	23.34	78.8	9.53	39.0	20.28	36.9
April 10	59.62	87.0	23.20	81.1	9.36	41.4	20.23	37.3
20	59.49	88.8	23.01	83.2	9.13	43.6	20.15	37.8
30	59.34	90.2	22.78	85.0	8.85	45.5	20.06	38.4
Mai 10	59.17	91.2	22.53	86.4	8.54	46.9	19.96	39.0
20	58.98	91.8	22.26	87.4	8.21	47.9	19.85	39.7
30	58.80	92.0	22.00	88.0	7.88	48.5	19.75	40.3
Juni 9	58.61	91.8	21.74	88.1	7.56	48.5	19.64	40.9
19	58.43	91.2	21.49	87.8	7.25	48.1	19.55	41.6
29	58.26	90.2	21.27	87.0	6.97	47.2	19.46	42.1
Juli 9	58.11	88.8	21.08	85.8	6.73	45.8	19.38	42.5
19	57.97	87.1	20.93	84.3	6.53	44.1	19.32	42.9
29	57.86	85.2	20.81	82.3	6.38	41.9	19.28	43.2
Aug. 8	57.77	83.1	20.74	80.1	6.27	39.5	19.26	43.3
18	57.72	80.8	20.71	77.6	6.23	36.7	19.25	43.3
28	57.71	78.5	20.74	74.8	6.24	33.7	19.28	43.2
Sept. 7	57.75	76.0	20.83	71.5	6.32	30.3	19.34	42.8
17	57.83	73.9	20.96	68.4	6.47	27.0	19.43	42.2
27	57.97	72.0	21.15	65.3	6.68	23.6	19.55	41.4
Okt. 7	58.15	70.4	21.40	62.1	6.97	20.3	19.70	40.3
17	58.39	69.3	21.72	59.0	7.32	17.1	19.90	39.0
27	58.67	68.6	22.09	56.0	7.74	14.0	20.13	37.5
Nov. 6	59.00	68.4	22.51	53.2	8.22	11.2	20.39	35.8
16	59.36	68.8	22.98	50.7	8.75	8.7	20.69	33.9
26	59.75	69.8	23.49	48.6	9.32	6.5	21.01	31.9
Dez. 6	60.15	71.2	24.02	46.8	9.92	4.9	21.34	29.8
16	60.54	73.2	24.56	45.5	10.54	3.7	21.68	27.7
26	60.93	75.6	25.09	44.8	11.15	3.1	22.01	25.7
36	61.29	78.3	25.60	44.6	11.74	3.0	22.33	23.8
Mittl. Ort	58.61	75.6	21.43	73.4	7.23	32.8	19.44	41.3

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1909	♃ Ursae maj. 3 ^m .0.		β Crateris. 4 ^m .3.		δ Leonis. 2 ^m .4.		θ Leonis. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	11 ^h 4 ^m	44° 59'	11 ^h 7 ^m	22° 19'	11 ^h 9 ^m	21° 0'	11 ^h 9 ^m	15° 55'
Jan. 0	32.78	24.8	10.43	31.5	15.74	79.1	27.46	37.5
10	33.18 ⁴⁰	24.4 ⁴	10.74 ³¹	34.1 ²⁶	16.06 ³²	77.7 ¹⁴	27.78 ³²	36.0 ¹⁵
20	33.55 ³⁷	24.5 ¹	11.02 ²⁸	36.7 ²⁶	16.36 ³⁰	76.7 ¹⁰	28.07 ²⁹	34.7 ¹³
30	33.88 ³³	25.0 ⁵	11.26 ²⁴	39.4 ²⁷	16.62 ²⁶	76.0 ⁷	28.33 ²⁶	33.7 ¹⁰
Febr. 9	34.14 ²⁶	25.9 ⁹	11.45 ¹⁹	41.9 ²⁵	16.84 ²²	75.7 ³	28.54 ²¹	33.1 ⁶
19	34.34 ²⁰	27.3 ¹⁴	11.60 ¹⁵	44.3 ²⁴	17.01 ¹⁷	75.7 ⁰	28.70 ¹⁶	32.8 ³
März 1	34.48 ¹⁴	29.0 ¹⁷	11.70 ¹⁰	46.6 ²³	17.13 ¹²	75.9 ²	28.81 ¹¹	32.8 ⁰
11	34.56 ⁸	30.9 ¹⁹	11.75 ⁵	48.6 ²⁰	17.20 ⁷	76.5 ⁶	28.88 ⁷	33.1 ³
21	34.58 ²	32.9 ²⁰	11.76 ¹	50.4 ¹⁸	17.20 ³	77.3 ⁸	28.91 ³	33.6 ⁵
31	34.54 ⁴	35.0 ²¹	11.74 ²	51.9 ¹⁵	17.23 ²	77.3 ¹⁰	28.91 ¹	33.6 ⁷
April 10	34.45 ⁹	37.0 ²⁰	11.74 ⁵	51.9 ¹²	17.21 ⁵	78.3 ¹⁰	28.90 ⁵	34.3 ⁸
20	34.33 ¹²	37.0 ¹⁹	11.69 ⁸	53.1 ¹⁰	17.16 ⁷	79.3 ¹¹	28.85 ⁷	35.1 ⁹
30	34.18 ¹⁵	38.9 ¹⁷	11.61 ¹⁰	54.1 ⁶	17.09 ⁹	80.4 ¹¹	28.78 ⁹	36.0 ⁹
Mai 10	34.00 ¹⁸	40.6 ¹⁴	11.51 ¹²	54.7 ⁴	17.00 ¹¹	81.5 ¹⁰	28.69 ¹⁰	36.9 ⁹
20	34.00 ¹⁸	42.0 ¹¹	11.39 ¹²	55.1 ¹	16.89 ¹²	82.5 ¹⁰	28.59 ¹¹	37.8 ⁸
30	33.82 ¹⁸	43.1 ⁸	11.27 ¹²	55.2 ¹	16.77 ¹¹	83.5 ⁷	28.48 ¹¹	38.6 ⁷
Juni 9	33.64 ¹⁸	43.9 ⁴	11.15 ¹²	55.1 ⁴	16.66 ¹²	84.2 ⁷	28.37 ¹¹	39.3 ⁷
19	33.46 ¹⁷	44.3 ⁰	11.03 ¹²	54.7 ⁷	16.54 ¹⁰	84.9 ⁵	28.26 ¹⁰	40.0 ⁵
29	33.29 ¹⁶	44.3 ⁴	10.91 ¹²	54.0 ⁹	16.44 ¹⁰	85.4 ²	28.16 ⁹	40.5 ⁴
Juli 9	33.13 ¹³	43.9 ⁷	10.79 ¹⁰	53.1 ¹¹	16.34 ⁹	85.6 ¹	28.07 ⁸	40.9 ²
19	33.00 ¹¹	43.2 ¹⁰	10.69 ⁹	52.0 ¹²	16.25 ⁶	85.7 ¹	27.99 ⁷	41.1 ¹
29	32.89 ⁸	42.2 ¹⁴	10.60 ⁷	50.8 ¹⁴	16.19 ⁵	85.6 ³	27.92 ⁵	41.2 ¹
Aug. 8	32.81 ⁵	40.8 ¹⁷	10.53 ⁵	49.4 ¹⁵	16.14 ⁴	85.3 ⁶	27.87 ³	41.1 ²
18	32.76 ²	39.1 ²⁰	10.48 ²	47.9 ¹⁵	16.10 ¹	84.7 ⁷	27.84 ¹	40.9 ⁵
28	32.74 ²	37.1 ²²	10.46 ⁰	46.4 ¹⁵	16.09 ²	84.0 ¹⁰	27.83 ¹	40.4 ⁶
Sept. 7	32.76 ⁶	34.9 ²⁴	10.46 ³	44.9 ¹³	16.11 ⁵	83.0 ¹¹	27.85 ⁴	39.8 ⁹
17	32.82 ¹¹	32.5 ²⁹	10.49 ⁸	43.6 ¹³	16.16 ⁹	81.9 ¹⁵	27.89 ⁹	38.9 ¹²
27	32.93 ¹⁵	29.6 ²⁸	10.57 ¹¹	42.3 ⁹	16.25 ¹²	80.4 ¹⁶	27.98 ¹²	37.7 ¹³
Okt. 7	33.08 ¹⁹	26.8 ²⁸	10.68 ¹⁶	41.4 ⁶	16.37 ¹⁵	78.8 ¹⁷	28.10 ¹⁵	36.4 ¹⁵
17	33.27 ²⁵	24.0 ²⁹	10.84 ¹⁹	40.8 ³	16.52 ²⁰	77.1 ²⁰	28.25 ¹⁹	34.9 ¹⁷
27	33.52 ²⁹	21.1 ²⁸	11.03 ²⁴	40.5 ²	16.72 ²⁴	75.1 ²¹	28.44 ²³	33.2 ¹⁹
Nov. 6	33.81 ³⁴	18.3 ²⁷	11.27 ²⁷	40.7 ⁵	16.96 ²⁷	73.0 ²²	28.67 ²⁷	31.3 ²⁰
16	34.15 ³⁷	15.6 ²⁶	11.54 ³¹	41.2 ¹⁰	17.23 ³⁰	70.8 ²²	28.94 ³⁰	29.3 ²²
26	34.52 ⁴¹	13.0 ²³	11.85 ³³	42.2 ¹³	17.53 ³³	68.6 ²³	29.24 ³²	27.1 ²¹
Dec. 6	34.93 ⁴³	10.7 ²⁰	12.18 ³⁴	43.5 ¹⁸	17.86 ³³	66.3 ²¹	29.56 ³⁴	25.0 ²²
16	35.36 ⁴⁴	8.7 ¹⁷	12.52 ³⁵	45.3 ²¹	18.21 ³⁶	64.2 ²⁰	29.90 ³⁵	22.8 ²⁰
26	35.80 ⁴⁴	7.0 ¹²	12.87 ³⁵	47.4 ²³	18.57 ³⁵	62.2 ¹⁹	30.25 ³⁴	20.8 ¹⁹
36	36.24 ⁴²	5.8 ⁶	13.22 ³²	49.7 ²⁵	18.92 ³⁵	60.3 ¹⁵	30.59 ³³	18.9 ¹⁷
	36.66	5.2	13.54	52.2	19.27	58.8	30.92	17.2
Mill. Ort	33.12	32.6	10.85	43.8	16.24	80.7	27.98	37.5

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1909	ν Ursae maj. 3 ^m .4.		δ Crateris. 3 ^m .6.		σ Leonis. 4 ^m .1.		π Centauri. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	11 ^h 13 ^m 33 ^s 35'		11 ^h 14 ^m 14 ^s 16'		11 ^h 16 ^m 6 ^s 31'		11 ^h 16 ^m 53 ^s 59'	
Jan. 0	33.52	22.2	46.89	59.7	26.14	44.4	51.05	10.8
10	33.88	21.3	47.20	62.1	26.45	42.5	51.47	13.5
20	34.21	20.8	47.48	64.4	26.73	40.8	51.85	16.5
30	34.51	20.7	47.72	66.8	26.98	39.4	52.16	19.9
Febr. 9	34.75	21.0	47.92	69.0	27.19	38.2	52.41	23.4
19	34.94	21.7	48.07	71.0	27.35	37.4	52.60	26.9
März 1	35.07	22.7	48.18	72.8	27.47	36.8	52.73	30.5
11	35.15	24.0	48.25	74.3	27.54	36.5	52.78	33.9
21	35.18	25.5	48.27	75.6	27.58	36.4	52.78	37.2
31	35.16	27.1	48.26	76.7	27.58	36.6	52.72	40.2
April 10	35.11	28.8	48.22	77.5	27.54	36.9	52.60	42.9
20	35.02	30.4	48.16	78.1	27.47	37.3	52.45	45.3
30	34.91	31.8	48.07	78.4	27.39	37.9	52.26	47.4
Mai 10	34.78	33.1	47.97	78.5	27.30	38.5	52.05	49.0
20	34.64	34.3	47.86	78.4	27.20	39.2	51.81	50.1
30	34.50	35.1	47.75	78.1	27.10	39.8	51.56	50.8
Juni 9	34.36	35.7	47.64	77.6	27.00	40.5	51.30	51.1
19	34.23	36.0	47.53	77.0	26.90	41.1	51.05	50.8
29	34.11	36.1	47.43	76.2	26.81	41.7	50.79	50.2
Juli 9	34.01	35.8	47.34	75.3	26.73	42.2	50.55	49.0
19	33.92	35.2	47.26	74.2	26.66	42.6	50.33	47.5
29	33.85	34.3	47.20	73.1	26.60	42.9	50.13	45.6
Aug. 8	33.81	33.2	47.15	72.0	26.57	43.1	49.97	43.4
18	33.79	31.8	47.12	70.9	26.55	43.2	49.85	41.0
28	33.81	30.2	47.12	69.8	26.56	43.1	49.78	38.4
Sept. 7	33.85	28.3	47.15	68.9	26.60	42.8	49.76	35.8
17	33.94	26.1	47.23	68.1	26.67	42.2	49.82	32.9
27	34.06	23.8	47.33	67.6	26.78	41.4	49.93	30.5
Okt. 7	34.22	21.4	47.48	67.5	26.92	40.4	50.12	28.4
17	34.43	18.9	47.66	67.6	27.10	39.2	50.38	26.6
27	34.68	16.3	47.88	68.0	27.32	37.7	50.69	25.3
Nov. 6	34.97	13.8	48.14	68.9	27.57	36.0	51.06	24.5
16	35.30	11.3	48.43	70.1	27.86	34.1	51.48	24.3
26	35.65	8.9	48.75	71.7	28.17	32.0	51.94	24.7
Dez. 6	36.03	6.8	49.08	73.5	28.50	29.9	52.41	25.6
16	36.42	4.9	49.42	75.6	28.84	27.8	52.89	27.2
26	36.80	3.3	49.76	77.9	29.18	25.7	53.36	29.2
36	37.18	2.1	50.08	80.3	29.50	23.7	53.80	31.8
Mittl. Ort	34.00	27.4	47.40	69.5	26.69	41.4	51.20	32.0

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1909	Gr. 1771. 6 ^m .2.		λ Draconis. 3 ^m .6.		ξ Hydrac. 3 ^m .6.		λ Centauri. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -
	11 ^h 17 ^m 64° 49'		11 ^h 25 ^m 69° 49'		11 ^h 28 ^m 31° 20'		11 ^h 31 ^m 62° 30'	
Jan. 0	27.33 ⁶³ 31.8 ¹	60.86 ⁷⁵ 48.1 ²	30.89 ³³ 59.0 ²⁶	34.61 ⁵¹ 35.9 ²⁵				
10	27.96 ⁵⁷ 31.9 ⁷	61.61 ⁶⁹ 48.3 ⁸	31.22 ³¹ 61.6 ²⁸	35.12 ⁴⁷ 38.4 ³⁰				
20	28.53 ⁵⁰ 32.6 ¹²	62.30 ⁶² 49.1 ¹³	31.53 ²⁷ 64.4 ²⁸	35.59 ⁴⁰ 41.4 ³²				
30	29.03 ⁴³ 33.8 ¹⁸	62.92 ⁵² 50.4 ¹⁸	31.80 ²² 67.2 ²⁹	35.99 ³³ 44.6 ³⁵				
Febr. 9	29.46 ³³ 35.6 ²¹	63.44 ⁴⁰ 52.2 ²³	32.02 ¹⁸ 70.1 ²⁸	36.32 ²⁴ 48.1 ³⁷				
19	29.79 ²² 37.7 ²⁵	63.84 ²⁹ 54.5 ²⁶	32.20 ¹² 72.9 ²⁷	36.56 ¹⁷ 51.8 ³⁷				
März 1	30.01 ¹² 40.2 ²⁷	64.13 ¹⁶ 57.1 ²⁸	32.32 ⁸ 75.6 ²⁵	36.73 ⁹ 55.5 ³⁷				
11	30.13 ² 42.9 ²⁸	64.29 ³ 59.9 ²⁹	32.40 ³ 78.1 ²³	36.82 ¹ 59.2 ³⁵				
21	30.15 ⁷ 45.7 ²⁷	64.32 ⁸ 62.8 ²⁹	32.43 ¹ 80.4 ²⁰	36.83 ⁶ 62.7 ³⁴				
31	30.08 ¹⁶ 48.4 ²⁶	64.24 ¹⁹ 65.7 ²⁷	32.42 ⁴ 82.4 ¹⁸	36.77 ¹³ 66.1 ³¹				
April 10	29.92 ²³ 51.0 ²⁴	64.05 ²⁸ 68.4 ²⁵	32.38 ⁷ 84.2 ¹⁵	36.64 ¹⁸ 69.2 ²⁸				
20	29.69 ²⁸ 53.4 ²⁰	63.77 ³⁵ 70.9 ²¹	32.31 ⁹ 85.7 ¹¹	36.46 ²³ 72.0 ²⁵				
30	29.41 ³³ 55.4 ¹⁷	63.42 ⁴² 73.0 ¹⁸	32.22 ¹² 86.8 ⁹	36.23 ²⁸ 74.5 ²⁰				
Mai 10	29.08 ³⁶ 57.1 ¹²	63.00 ⁴⁵ 74.8 ¹³	32.10 ¹² 87.7 ⁵	35.95 ³⁰ 76.5 ¹⁶				
20	28.72 ³⁶ 58.3 ⁷	62.55 ⁴⁸ 76.1 ⁸	31.98 ¹⁴ 88.2 ²	35.65 ³³ 78.1 ¹¹				
30	28.36 ³⁷ 59.0 ³	62.07 ⁴⁷ 76.9 ²	31.84 ¹⁴ 88.4 ²	35.32 ³⁵ 79.2 ⁶				
Juni 9	27.99 ³⁶ 59.3 ³	61.60 ⁴⁷ 77.1 ³	31.70 ¹⁴ 88.2 ⁴	34.97 ³⁶ 79.8 ¹				
19	27.63 ³³ 59.0 ⁸	61.13 ⁴⁴ 76.8 ⁸	31.56 ¹³ 87.8 ⁸	34.61 ³⁶ 79.9 ⁴				
29	27.30 ³⁰ 58.2 ¹²	60.69 ⁴¹ 76.0 ¹³	31.43 ¹⁴ 87.0 ¹⁰	34.25 ³⁴ 79.5 ⁹				
Juli 9	27.00 ²⁶ 57.0 ¹⁷	60.28 ³⁶ 74.7 ¹⁷	31.29 ¹² 86.0 ¹³	33.91 ³³ 78.6 ¹³				
19	26.74 ²¹ 55.3 ²¹	59.92 ³⁰ 73.0 ²²	31.17 ¹⁰ 84.7 ¹⁵	33.58 ³⁰ 77.3 ¹⁸				
29	26.53 ¹⁶ 53.2 ²⁴	59.62 ²⁴ 70.8 ²⁶	31.07 ⁸ 83.2 ¹⁶	33.28 ²⁵ 75.5 ²¹				
Aug. 8	26.37 ¹¹ 50.8 ²⁸	59.38 ¹⁷ 68.2 ²⁹	30.99 ⁶ 81.6 ¹⁷	33.03 ²⁰ 73.4 ²⁴				
18	26.26 ⁴ 48.0 ³⁰	59.21 ⁹ 65.3 ³¹	30.93 ³ 79.9 ¹⁸	32.83 ¹⁴ 71.0 ²⁷				
28	26.22 ³ 45.0 ³³	59.12 ¹ 62.2 ³⁴	30.90 ¹ 78.1 ¹⁸	32.69 ⁷ 68.3 ²⁸				
Sept. 7	26.25 ¹¹ 41.7 ³⁷	59.11 ¹⁰ 58.8 ³⁹	30.91 ⁵ 76.3 ¹⁸	32.62 ² 65.5 ³⁰				
17	26.36 ¹⁸ 38.0 ³⁵	59.21 ¹⁸ 54.9 ³⁶	30.96 ⁹ 74.5 ¹⁴	32.64 ¹⁰ 62.5 ²⁷				
27	26.54 ²⁶ 34.5 ³⁴	59.39 ²⁸ 51.3 ³⁶	31.05 ¹³ 73.1 ¹¹	32.74 ¹⁹ 59.8 ²⁵				
Okt. 7	26.80 ³³ 31.1 ³⁵	59.67 ³⁷ 47.7 ³⁵	31.18 ¹⁹ 72.0 ⁸	32.93 ²⁸ 57.3 ²²				
17	27.13 ⁴¹ 27.6 ³²	60.04 ⁴⁷ 44.2 ³⁴	31.37 ²³ 71.2 ⁴	33.21 ³⁷ 55.1 ¹⁷				
27	27.54 ⁴⁸ 24.4 ³⁰	60.51 ⁵⁵ 40.8 ³²	31.60 ²⁷ 70.8 ⁰	33.58 ⁴³ 53.4 ¹³				
Nov. 6	28.02 ⁵⁴ 21.4 ²⁸	61.06 ⁶³ 37.6 ²⁸	31.87 ³¹ 70.8 ⁶	34.01 ⁵⁰ 52.1 ⁶				
16	28.56 ⁶⁰ 18.6 ²³	61.69 ⁷⁰ 34.8 ²⁴	32.18 ³⁴ 71.4 ¹⁰	34.51 ⁵⁴ 51.5 ¹				
26	29.16 ⁶³ 16.3 ¹⁹	62.39 ⁷⁴ 32.4 ¹⁹	32.52 ³⁶ 72.4 ¹⁴	35.05 ⁵⁷ 51.4 ⁶				
Dez. 6	29.79 ⁶⁶ 14.4 ¹⁴	63.13 ⁷⁸ 30.5 ¹⁴	32.88 ³⁷ 73.8 ¹⁸	35.62 ⁵⁸ 52.0 ¹²				
16	30.45 ⁶⁶ 13.0 ⁸	63.91 ⁷⁹ 29.1 ⁸	33.25 ³⁷ 75.6 ²²	36.20 ⁵⁷ 53.2 ¹⁷				
26	31.11 ⁶³ 12.2 ²	64.70 ⁷⁷ 28.3 ²	33.62 ³⁵ 77.8 ²⁶	36.77 ⁵⁵ 54.9 ²³				
36	31.74	65.47	33.97	37.32				
Mittl. Ort	27.40	43.1	60.79	60.2	31.42	74.5	34.73	59.2
	429)		433)		434)		436)	

1909	α Leonis. 4 ^m .4.		γ Draconis. 5 ^m .4.		ζ Ursae maj. 3 ^m .8.		β Leonis. 2 ^m .1.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	11 ^h 32 ^m	0° 19'	11 ^h 37 ^m	67° 14'	11 ^h 41 ^m	48° 16'	11 ^h 44 ^m	15° 4'
Jan. 0	16.73	11.5	24.19	43.0	14.43	53.2	24.44	50.9
10	17.04	13.5	24.87	43.0	14.87	52.5	24.77	49.2
20	17.33	15.4	25.51	43.6	15.28	52.3	25.08	47.7
30	17.59	17.2	26.09	44.7	15.65	52.7	25.36	46.6
Febr. 9	17.81	18.8	26.58	46.3	15.97	53.5	25.59	45.8
19	17.98	20.0	26.97	48.4	16.23	54.8	25.78	45.3
März 1	18.11	21.0	27.26	51.0	16.43	56.5	25.93	45.2
11	18.20	21.8	27.43	53.7	16.55	58.5	26.04	45.4
21	18.25	22.3	27.50	56.5	16.62	60.7	26.10	45.8
31	18.25	22.5	27.46	59.3	16.62	62.9	26.12	46.5
April 10	18.23	22.6	27.32	62.1	16.57	65.2	26.11	47.3
20	18.19	22.5	27.10	64.6	16.48	67.4	26.07	48.2
30	18.12	22.2	26.81	66.8	16.35	69.5	26.01	49.1
Mai 10	18.04	21.8	26.46	68.7	16.19	71.2	25.93	50.1
20	17.95	21.3	26.08	70.1	16.00	72.7	25.83	51.0
30	17.85	20.8	25.67	71.0	15.81	73.8	25.73	51.9
Juni 9	17.75	20.2	25.26	71.4	15.61	74.5	25.63	52.6
19	17.65	19.5	24.85	71.3	15.42	74.8	25.52	53.2
29	17.56	18.9	24.46	70.8	15.23	74.7	25.42	53.7
Juli 9	17.47	18.3	24.09	69.7	15.05	74.2	25.32	54.1
19	17.39	17.6	23.76	68.1	14.90	73.2	25.24	54.3
29	17.33	17.1	23.47	66.1	14.77	71.9	25.17	54.3
Aug. 8	17.28	16.6	23.24	63.7	14.66	70.3	25.11	54.1
18	17.25	16.2	23.07	60.9	14.58	68.3	25.06	53.7
28	17.24	15.9	22.97	57.9	14.54	66.0	25.05	53.1
Sept. 7	17.26	15.8	22.94	54.6	14.54	63.4	25.06	52.3
17	17.32	15.9	23.00	50.8	14.59	60.6	25.10	51.2
27	17.40	16.3	23.14	47.2	14.69	57.4	25.18	49.8
Okt. 7	17.53	16.9	23.36	43.6	14.84	54.3	25.29	48.3
17	17.70	17.8	23.66	40.0	15.04	51.1	25.45	46.6
27	17.90	19.0	24.05	36.6	15.29	48.0	25.64	44.6
Nov. 6	18.14	20.4	24.53	33.3	15.60	44.9	25.88	42.5
16	18.42	22.1	25.08	30.4	15.96	42.0	26.15	40.3
26	18.72	24.0	25.70	27.8	16.35	39.3	26.45	38.0
Dez. 6	19.05	26.0	26.36	25.7	16.78	36.9	26.78	35.7
16	19.39	28.2	27.06	24.1	17.23	35.0	27.13	33.5
26	19.73	30.4	27.77	23.1	17.69	33.4	27.48	31.4
36	20.05	32.5	28.47	22.7	18.14	32.4	27.82	29.5
Mittl. Ort	17.37	16.7	24.35	55.2	14.97	62.3	25.14	50.8

437)

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441)

444)

SCHEINBARE STERNÖRTER.

305

1909	β Virginis. 3 ^m .5.		γ Ursae maj. 2 ^m .3.		ο Virginis. 4 ^m .1.		δ Centauri. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	11 ^h 45 ^m	2° 16'	11 ^h 49 ^m	54° 11'	12 ^h 0 ^m	9° 13'	12 ^h 3 ^m	50° 12'
Jan. 0	56.59 ³²	43.5 ²⁰	2.42 ⁴⁹	52.3 ⁷	33.65 ³³	80.0 ²⁰	37.51 ⁴³	34.8 ²³
10	56.91 ³⁰	41.5 ¹⁹	2.91 ⁴⁶	51.6 ¹	33.98 ³¹	78.0 ¹⁷	37.94 ⁴⁰	37.1 ²⁷
20	57.21 ²⁷	39.6 ¹⁷	3.37 ⁴²	51.5 ⁴	34.29 ²⁸	76.3 ¹⁴	38.34 ³⁶	39.8 ³⁰
30	57.48 ²³	37.9 ¹⁴	3.79 ³⁷	51.9 ¹⁰	34.57 ²⁴	74.9 ¹¹	38.70 ³¹	42.8 ³¹
Febr. 9	57.71 ¹⁹	36.5 ¹²	4.16 ³⁰	52.9 ¹⁵	34.81 ²¹	73.8 ⁹	39.01 ²⁶	45.9 ³³
19	57.90 ¹⁵	35.3 ⁹	4.46 ²²	54.4 ¹⁹	35.02 ¹⁶	72.9 ⁵	39.27 ¹⁹	49.2 ³³
März 1	58.05 ¹⁰	34.4 ⁶	4.68 ¹⁶	56.3 ²²	35.18 ¹²	72.4 ²	39.46 ¹⁴	52.5 ³³
11	58.15 ⁶	33.8 ⁴	4.84 ⁸	58.5 ²⁴	35.30 ⁸	72.2 ¹	39.60 ⁸	55.8 ³²
21	58.21 ³	33.4 ¹	4.92 ¹	60.9 ²⁵	35.38 ³	72.3 ³	39.68 ³	59.0 ³⁰
31	58.24 ¹	33.3 ¹	4.93 ⁶	63.4 ²⁵	35.41 ¹	72.6 ⁵	39.71 ²	62.0 ²⁷
April 10	58.23 ³	33.4 ³	4.87 ¹¹	65.9 ²⁴	35.42 ²	73.1 ⁷	39.69 ⁶	64.7 ²⁵
20	58.20 ³	33.7 ³	4.76 ¹⁵	68.3 ²²	35.40 ⁵	73.8 ⁷	39.63 ¹⁰	67.2 ²²
30	58.15 ⁷	34.1 ⁴	4.61 ¹⁹	70.5 ¹⁹	35.35 ⁷	74.5 ⁸	39.53 ¹⁴	69.4 ¹⁹
Mai 10	58.08 ⁹	34.5 ⁶	4.42 ²¹	72.4 ¹⁶	35.28 ⁸	75.3 ⁸	39.39 ¹⁶	71.3 ¹⁵
20	57.99 ⁹	35.1 ⁶	4.21 ²³	74.0 ¹²	35.20 ⁹	76.1 ⁸	39.23 ¹⁸	72.8 ¹⁰
30	57.90 ¹⁰	35.7 ⁶	3.98 ²⁴	75.2 ⁸	35.11 ⁹	76.9 ⁷	39.05 ²⁰	73.8 ⁷
Juni 9	57.80 ⁹	36.3 ⁶	3.74 ²⁴	76.0 ³	35.02 ¹⁰	77.6 ⁷	38.85 ²²	74.5 ²
19	57.71 ⁹	36.9 ⁶	3.50 ²³	76.3 ¹	34.92 ¹⁰	78.3 ⁶	38.63 ²²	74.7 ²
29	57.62 ⁹	37.5 ⁶	3.27 ²²	76.2 ⁶	34.82 ¹⁰	78.9 ⁵	38.41 ²²	74.5 ⁷
Juli 9	57.53 ⁹	38.1 ⁶	3.05 ²⁰	75.6 ¹⁰	34.72 ⁹	79.4 ³	38.19 ²²	73.8 ¹⁰
19	57.44 ⁷	38.7 ⁴	2.85 ¹⁷	74.6 ¹⁴	34.63 ⁸	79.7 ³	37.97 ²⁰	72.8 ¹⁴
29	57.37 ⁶	39.1 ⁴	2.68 ¹⁴	73.2 ¹⁸	34.55 ⁷	80.0 ⁰	37.77 ¹⁸	71.4 ¹⁸
Aug. 8	57.31 ⁴	39.5 ²	2.54 ¹¹	71.4 ²²	34.48 ⁵	80.0 ¹	37.59 ¹⁵	69.6 ²⁰
18	57.27 ²	39.7 ¹	2.43 ⁶	69.2 ²⁵	34.43 ³	79.9 ²	37.44 ¹²	67.6 ²²
28	57.25 ¹	39.8 ¹	2.37 ³	66.7 ²⁸	34.40 ¹	79.7 ⁵	37.32 ⁷	65.4 ²⁴
Sept. 7	57.26 ⁴	39.7 ²	2.34 ³	63.9 ³⁰	34.39 ²	79.2 ⁷	37.25 ²	63.0 ²³
17	57.30 ⁸	39.5 ⁶	2.37 ⁹	60.9 ³⁵	34.41 ⁷	78.5 ¹⁰	37.23 ⁵	60.7 ²⁵
27	57.38 ¹²	38.9 ⁸	2.46 ¹⁵	57.4 ³³	34.48 ⁹	77.5 ¹²	37.28 ¹¹	58.2 ²¹
Okt. 7	57.50 ¹⁵	38.1 ¹⁰	2.61 ²¹	54.1 ³⁴	34.57 ¹⁴	76.3 ¹⁴	37.39 ¹⁸	56.1 ¹⁹
17	57.65 ¹⁹	37.1 ¹³	2.82 ²⁶	50.7 ³³	34.71 ¹⁸	74.9 ¹⁷	37.57 ²⁴	54.2 ¹⁴
27	57.84 ²⁴	35.8 ¹⁶	3.08 ³³	47.4 ³²	34.89 ²²	73.2 ¹⁹	37.81 ³¹	52.8 ¹¹
Nov. 6	58.08 ²⁷	34.2 ¹⁸	3.41 ³⁸	44.2 ³¹	35.11 ²⁶	71.3 ²⁰	38.12 ³⁵	51.7 ⁵
16	58.35 ³⁰	32.4 ²⁰	3.79 ⁴³	41.1 ²⁸	35.37 ²⁹	69.3 ²²	38.47 ⁴¹	51.2 ¹
26	58.65 ³²	30.4 ²¹	4.22 ⁴⁷	38.3 ²⁴	35.66 ³²	67.1 ²²	38.88 ⁴³	51.3 ⁵
Dez. 6	58.97 ³³	28.3 ²²	4.69 ⁵⁰	35.9 ²¹	35.98 ³³	64.9 ²³	39.31 ⁴⁶	51.8 ¹¹
16	59.30 ³⁵	26.1 ²²	5.19 ⁵¹	33.8 ¹⁵	36.31 ³⁵	62.6 ²²	39.77 ⁴⁶	52.9 ¹⁶
26	59.65 ³³	23.9 ²¹	5.70 ⁵⁰	32.3 ¹⁰	36.66 ³³	60.4 ²⁰	40.23 ⁴⁴	54.5 ²¹
36	59.98 ³³	21.8 ²¹	6.20 ⁵⁰	31.3 ¹⁰	36.99 ³³	58.4 ²⁰	40.67 ⁴⁴	56.6 ²¹
Mittl. Ort	57.31	39.2	2.94	62.5	34.45	78.0	38.26	56.1

445)

447)

450)

452)

1909	ε Corvi. 3 ^m .o.		4 H. Draconis. 5 ^m .o.		δ Ursae maj. 3 ^m .4.		β Chamael. 4 ^m .4.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. —
	12 ^h 5 ^m	22° 6'	12 ^h 7 ^m	78° 6'	12 ^h 10 ^m	57° 31'	12 ^h 12 ^m	78° 47'
Jan. 0	25.72	36.3	56.83	65.3	54.98	66.1	58.87	58.9
10	26.05 ³³	38.7 ²⁴	58.03 ¹²⁰	65.1 ²	55.51 ⁵³	65.3 ⁸	60.05 ¹¹⁸	60.6 ¹⁷
20	26.37 ³²	41.1 ²⁴	59.19 ¹¹⁶	65.6 ⁵	56.02 ⁵¹	65.1 ²	61.15 ¹¹⁰	62.9 ²³
30	26.66 ²⁹	43.6 ²⁵	60.26 ¹⁰⁷	66.7 ¹¹	56.49 ⁴⁷	65.6 ⁵	62.13 ⁹⁸	65.7 ²⁸
Febr. 9	26.91 ²⁵	46.0 ²⁴	61.20 ⁹⁴	68.4 ¹⁷	56.90 ⁴¹	66.5 ⁹	62.98 ⁸⁵	68.9 ³²
19	27.11 ²⁰	48.4 ²⁴	61.99 ⁷⁹	70.5 ²¹	57.25 ³⁵	68.0 ¹⁵	63.67 ⁶⁹	72.3 ³⁴
März 1	27.28 ¹⁷	50.6 ²²	62.60 ⁶¹	73.1 ²⁶	57.53 ²⁸	69.9 ¹⁹	64.19 ⁵²	76.0 ⁵
11	27.40 ⁸	52.6 ²⁰	63.01 ⁴¹	75.9 ²⁸	57.73 ²⁰	72.2 ²³	64.54 ¹⁸	79.8 ³³
21	27.48 ¹²	54.4 ¹⁸	63.22 ²¹	79.0 ³¹	57.73 ¹²	74.7 ²⁵	64.72 ³⁵	83.7 ³⁹
31	27.52 ⁴	56.0 ¹⁶	63.23 ¹	82.1 ³¹	57.85 ⁴	77.3 ²⁶	64.72 ¹	87.5 ³⁸
April 10	27.53 ¹	57.3 ¹³	63.23 ¹⁸	85.1 ³⁰	57.89 ²	77.3 ²⁷	64.73 ¹⁵	87.5 ³⁷
20	27.53 ³	57.3 ¹¹	63.05 ²⁶	85.1 ²⁸	57.87 ¹⁰	80.0 ²⁶	64.58 ³¹	91.2 ³⁵
30	27.50 ⁴	58.4 ⁸	62.69 ⁵²	87.9 ²⁵	57.77 ¹⁴	82.6 ²⁴	64.27 ⁴⁶	94.7 ³²
Mai 10	27.46 ⁷	59.2 ⁶	62.17 ⁶⁵	90.4 ²¹	57.63 ¹⁹	85.0 ²¹	63.81 ⁵⁸	97.9 ²⁹
20	27.39 ⁸	59.8 ⁴	61.52 ⁷⁴	92.5 ¹⁶	57.44 ²²	87.1 ¹⁸	63.23 ⁷⁰	100.8 ²⁵
30	27.31 ¹⁰	60.2 ¹	60.78 ⁸³	94.1 ¹²	57.22 ²⁵	88.9 ¹³	62.53 ⁸⁰	103.3 ²²
Juni 9	27.21 ¹¹	60.3 ¹	59.95 ⁸⁶	95.3 ⁶	56.97 ²⁶	90.2 ¹⁰	61.73 ⁸⁸	105.3 ¹⁶
19	27.10 ¹¹	60.2 ⁴	59.09 ⁸⁸	95.9 ¹	56.71 ²⁷	91.2 ⁴	60.85 ⁹⁵	106.9 ¹⁰
29	26.99 ¹²	59.8 ⁵	58.21 ⁸⁸	96.0 ⁵	56.44 ²⁷	91.6 ⁰	59.90 ⁹⁸	107.9 ⁵
Juli 9	26.87 ¹²	59.3 ⁸	57.33 ⁸⁵	95.5 ¹⁰	56.17 ²⁷	91.6 ⁴	58.92 ⁹⁸	108.4 ¹
19	26.75 ¹¹	58.5 ⁹	56.48 ⁷⁸	94.5 ¹⁶	55.90 ²⁴	91.2 ¹⁰	57.94 ⁹⁷	108.3 ⁶
29	26.64 ¹⁰	57.6 ¹¹	55.70 ⁷²	92.9 ²⁰	55.66 ²²	90.2 ¹⁴	56.97 ⁹³	107.7 ¹¹
Aug. 8	26.54 ⁹	56.5 ¹¹	54.98 ⁶²	90.9 ²⁵	55.44 ²⁰	88.8 ¹⁸	56.04 ⁸⁴	106.6 ¹⁷
18	26.45 ⁷	55.4 ¹³	54.36 ⁵²	88.4 ²⁹	55.24 ¹⁶	87.0 ²²	55.20 ⁷⁴	104.9 ²¹
28	26.38 ⁶	54.1 ¹²	53.84 ⁴¹	85.5 ³¹	55.08 ¹¹	84.8 ²⁵	54.46 ⁶⁰	102.8 ²⁴
Sept. 7	26.32 ²	52.9 ¹²	53.43 ²⁷	82.4 ³⁵	54.97 ⁷	82.3 ²⁹	53.86 ⁴⁴	100.4 ²⁶
17	26.30 ¹	51.7 ¹¹	53.16 ¹³	78.9 ³⁷	54.90 ²	79.4 ³¹	53.42 ²⁶	97.6 ³⁰
27	26.31 ⁶	50.6 ¹⁰	53.03 ⁴	75.2 ⁴²	54.88 ⁴	76.3 ³⁶	53.16 ³	94.6 ³²
Okt. 7	26.37 ⁹	49.6 ⁷	53.07 ¹⁹	71.1 ³⁹	54.92 ¹¹	72.7 ³⁵	53.13 ¹⁸	91.4 ³⁰
17	26.46 ¹⁴	48.9 ⁴	53.26 ³⁶	67.2 ³⁸	55.03 ¹⁸	69.2 ³⁶	53.31 ³⁹	88.4 ²⁸
27	26.60 ¹⁹	48.5 ¹	53.62 ⁵²	63.4 ³⁷	55.21 ²⁴	65.6 ³⁵	53.70 ⁶⁰	85.6 ²⁵
Nov. 6	26.79 ²³	48.4 ⁴	54.14 ⁶⁹	59.7 ³⁵	55.45 ³¹	62.1 ³⁴	54.30 ⁷⁹	83.1 ²¹
16	27.02 ²⁷	48.8 ⁷	54.83 ⁸³	56.2 ³²	55.76 ³⁷	58.7 ³²	55.09 ⁹⁵	81.0 ¹⁶
26	27.29 ³⁰	49.5 ¹¹	55.66 ⁹⁶	53.0 ²⁸	56.13 ⁴³	55.5 ³⁰	56.04 ¹⁰⁸	79.4 ¹¹
Dez. 6	27.59 ³⁴	50.6 ¹⁴	56.62 ¹⁰⁷	50.2 ²³	56.56 ⁴⁸	52.5 ²⁷	57.12 ¹¹⁸	78.3 ⁴
16	27.93 ³⁶	52.0 ¹⁸	57.69 ¹¹⁷	47.9 ¹⁸	57.04 ⁵²	49.8 ²²	58.30 ¹²³	77.9 ²
26	28.29 ³⁴	53.8 ²¹	58.86 ¹²¹	46.1 ¹²	57.56 ⁵³	47.6 ¹⁶	59.53 ¹²⁵	78.1 ⁸
36	28.63 ³⁵	55.9 ²³	60.07 ¹²³	44.9 ⁶	58.09 ⁵⁴	46.0 ¹²	60.78 ¹²¹	78.9 ¹⁵
	28.98	58.2	61.30	44.3	58.63	44.8	61.99	80.4
Mittl. Ort	26.55	49.2	56.81	78.8	55.64	77.4	59.39	85.1

453)

454)

456)

459)

1909	η Virginia. 3 ^m .7.		α Crucis med. 1 ^m .0.		20 Comae. 6 ^m .0.		δ Corvi. 2 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	12 ^h 15 ^m	0° 9'	12 ^h 21 ^m	62° 35'	12 ^h 25 ^m	21° 23'	12 ^h 25 ^m	16° 0'
Jan. 0	14.10 ³³	34.9 ²²	31.12 ⁵⁷	18.6 ²⁰	8.12 ³⁵	57.5 ¹⁸	8.28 ³³	21.2 ²³
10	14.43 ³¹	37.1 ²⁰	31.69 ⁵⁴	20.6 ²⁴	8.47 ³³	55.7 ¹⁵	8.61 ³²	23.5 ²³
20	14.74 ²⁸	39.1 ¹⁸	32.23 ⁴⁸	23.0 ²⁸	8.80 ³¹	54.2 ¹¹	8.93 ³⁰	25.8 ²²
30	15.02 ²⁵	40.9 ¹⁶	32.71 ⁴³	25.8 ³¹	9.11 ²⁸	53.1 ⁶	9.23 ²⁶	28.0 ²²
Febr. 9	15.27 ²¹	42.5 ¹³	33.14 ³⁵	28.9 ³⁴	9.39 ²³	52.5 ³	9.49 ²²	30.2 ²¹
19	15.48 ¹⁸	43.8 ¹⁰	33.49 ²⁸	32.3 ³⁵	9.62 ²⁰	52.2 ¹	9.71 ¹⁸	32.3 ¹⁸
März 1	15.66 ¹³	44.8 ⁸	33.77 ²¹	35.8 ³⁶	9.82 ¹⁵	52.3 ⁵	9.89 ¹⁴	34.1 ¹⁷
11	15.79 ⁹	45.6 ⁵	33.98 ¹⁴	39.4 ³⁵	9.97 ¹⁰	52.8 ⁷	10.03 ¹⁰	35.8 ¹⁵
21	15.88 ⁵	46.1 ³	34.12 ⁵	42.9 ³⁵	10.07 ⁷	53.5 ¹¹	10.13 ⁶	37.3 ¹²
31	15.93 ²	46.4 ⁰	34.17 ¹	46.4 ³³	10.14 ³	54.6 ¹²	10.19 ³	38.5 ¹⁰
April 10	15.95 ¹	46.4 ¹	34.16 ⁷	49.7 ³⁰	10.17 ¹	55.8 ¹³	10.22 ¹	39.5 ⁸
20	15.94 ³	46.3 ³	34.09 ¹³	52.7 ²⁸	10.16 ⁴	57.1 ¹³	10.23 ³	40.3 ⁶
30	15.91 ⁵	46.0 ⁴	33.96 ¹⁸	55.5 ²⁵	10.12 ⁵	58.4 ¹³	10.20 ⁵	40.9 ³
Mai 10	15.86 ⁷	45.6 ⁵	33.78 ²³	58.0 ²⁰	10.07 ⁸	59.7 ¹³	10.15 ⁶	41.2 ²
20	15.79 ⁸	45.1 ⁶	33.55 ²⁷	60.0 ¹⁷	9.99 ⁹	61.0 ¹¹	10.09 ⁸	41.4 ⁰
30	15.71 ⁸	44.5 ⁶	33.28 ³⁰	61.7 ¹²	9.90 ¹⁰	62.1 ¹⁰	10.01 ⁹	41.4 ²
Juni 9	15.63 ¹⁰	43.9 ⁶	32.98 ³³	62.9 ⁷	9.80 ¹¹	63.1 ⁸	9.92 ¹¹	41.2 ⁴
19	15.53 ¹⁰	43.3 ⁶	32.65 ³⁴	63.6 ³	9.69 ¹¹	63.9 ⁶	9.81 ¹⁰	40.8 ⁵
29	15.43 ⁹	42.7 ⁶	32.31 ³⁵	63.9 ³	9.58 ¹¹	64.5 ⁴	9.71 ¹¹	40.3 ⁷
Juli 9	15.34 ¹⁰	42.1 ⁶	31.96 ³⁵	63.6 ⁷	9.47 ¹¹	64.9 ²	9.60 ¹¹	39.6 ⁷
19	15.24 ⁹	41.5 ⁵	31.61 ³⁴	62.9 ¹³	9.36 ¹⁰	65.1 ²	9.49 ¹⁰	38.9 ⁹
29	15.15 ⁷	41.0 ⁴	31.27 ³¹	61.6 ¹⁶	9.26 ⁹	64.9 ³	9.39 ¹⁰	38.0 ⁹
Aug. 8	15.08 ⁶	40.6 ⁴	30.96 ²⁷	60.0 ²⁰	9.17 ⁸	64.6 ⁶	9.29 ⁸	37.1 ⁹
18	15.02 ⁵	40.2 ²	30.69 ²²	58.0 ²³	9.09 ⁶	64.0 ⁹	9.21 ⁶	36.2 ⁹
28	14.97 ³	40.0 ⁰	30.47 ¹⁶	55.7 ²⁵	9.03 ³	63.1 ¹¹	9.15 ³	35.3 ⁹
Sept. 7	14.94 ¹	40.0 ¹	30.31 ⁸	53.2 ²⁷	9.00 ¹	62.0 ¹⁴	9.12 ¹	34.4 ⁸
17	14.95 ⁴	40.1 ⁴	30.23 ⁰	50.5 ²⁶	8.99 ³	60.6 ¹⁷	9.11 ³	33.6 ⁵
27	14.99 ⁹	40.5 ⁷	30.23 ¹⁰	47.9 ²⁹	9.02 ⁸	58.9 ²⁰	9.14 ⁸	33.1 ⁴
Okt. 7	15.08 ¹²	41.2 ⁹	30.33 ¹⁹	45.0 ²⁴	9.10 ¹¹	56.9 ²¹	9.22 ¹¹	32.7 ¹
17	15.20 ¹⁷	42.1 ¹¹	30.52 ²⁷	42.6 ²¹	9.21 ¹⁶	54.8 ²⁴	9.33 ¹⁷	32.6 ³
27	15.37 ²¹	43.2 ¹⁵	30.79 ³⁷	40.5 ¹⁶	9.37 ²¹	52.4 ²⁴	9.50 ²¹	32.9 ⁶
Nov. 6	15.58 ²⁵	44.7 ¹⁶	31.16 ⁴⁴	38.9 ¹²	9.58 ²⁵	50.0 ²⁵	9.71 ²⁵	33.5 ⁹
16	15.83 ²⁸	46.3 ¹⁹	31.60 ⁵¹	37.7 ⁶	9.83 ²⁸	47.5 ²⁶	9.96 ²⁸	34.4 ¹³
26	16.11 ³¹	48.2 ²¹	32.11 ⁵⁵	37.1 ¹	10.11 ³²	44.9 ²⁶	10.24 ³²	35.7 ¹⁶
Dez. 6	16.42 ³³	50.3 ²¹	32.66 ⁵⁹	37.0 ⁵	10.43 ³⁴	42.3 ²⁴	10.56 ³³	37.3 ¹⁸
16	16.75 ³⁴	52.4 ²²	33.25 ⁵⁹	37.5 ¹²	10.77 ³⁵	39.9 ²²	10.89 ³⁵	39.1 ¹⁹
26	17.09 ³³	54.6 ²²	33.84 ⁵⁹	38.7 ¹⁸	11.12 ³⁶	37.7 ²⁰	11.24 ³⁴	41.0 ²²
36	17.42	56.8	34.43	40.5	11.48	35.7	11.58	43.2
Mittel. Ort	14.99	40.1	32.06	42.6	9.03	59.7	9.24	32.0
	460)		462)		466)		465)	

1909	8 Canum ven. 4 ^m .3.		β Corvi. 2 ^m .6.		α Draconis. 3 ^m .6.		24 Comae seq. 5 ^m .J	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	12 ^h 29 ^m	41° 50'	12 ^h 29 ^m	22° 53'	12 ^h 29 ^m	70° 16'	12 ^h 30 ^m	18° 55'
Jan. 0	24.55	58.4	35.24	23.9	35.59	69.9	33.02	39.1
10	24.96	57.0	35.60	26.1	36.38	69.2	33.37	37.1
20	25.35	56.1	35.93	28.5	37.14	69.2	33.70	35.7
30	25.72	55.8	36.23	30.9	37.85	69.8	34.01	34.5
Febr. 9	26.05	56.0	36.50	33.3	38.49	71.0	34.28	33.7
19	26.34	56.7	36.73	35.6	39.04	72.7	34.52	33.3
März 1	26.57	57.8	36.92	37.8	39.48	74.9	34.72	33.2
11	26.75	59.3	37.07	39.8	39.81	77.5	34.87	33.5
21	26.87	61.2	37.18	41.7	40.02	80.3	34.98	34.1
31	26.94	63.2	37.25	43.3	40.11	83.3	35.05	35.0
April 10	26.96	65.4	37.28	44.7	40.07	86.3	35.09	36.1
20	26.93	67.6	37.29	45.9	39.93	89.1	35.09	37.5
30	26.87	69.8	37.26	46.8	39.69	91.8	35.06	38.5
Mai 10	26.77	71.8	37.21	47.5	39.37	94.1	35.01	39.8
20	26.65	73.5	37.15	48.0	38.98	96.1	34.94	41.0
30	26.51	75.1	37.06	48.2	38.54	97.6	34.85	42.1
Juni 9	26.35	76.2	36.97	48.2	38.06	98.6	34.76	43.1
19	26.19	77.0	36.86	48.0	37.57	99.1	34.65	43.9
29	26.02	77.5	36.75	47.6	37.06	99.0	34.54	44.5
Juli 9	25.85	77.6	36.63	47.0	36.57	98.5	34.43	45.0
19	25.69	77.2	36.51	46.2	36.09	97.4	34.33	45.2
29	25.54	76.5	36.40	45.3	35.65	95.8	34.22	45.2
Aug. 8	25.40	75.4	36.29	44.2	35.25	93.7	34.13	44.9
18	25.28	73.9	36.20	43.0	34.91	91.3	34.05	44.4
28	25.19	72.1	36.12	41.8	34.63	88.4	33.99	43.7
Sept. 7	25.13	70.0	36.08	40.7	34.42	85.3	33.95	42.7
17	25.10	67.6	36.07	39.6	34.30	81.8	33.95	41.5
27	25.12	64.9	36.09	38.6	34.27	78.2	33.97	40.0
Okt. 7	25.19	61.7	36.16	37.8	34.34	74.0	34.04	38.0
17	25.30	58.6	36.28	37.4	34.51	70.2	34.15	36.0
27	25.47	55.5	36.44	37.2	34.79	66.5	34.30	33.9
Nov. 6	25.70	52.3	36.65	37.4	35.18	62.8	34.50	31.5
16	25.97	49.2	36.91	38.0	35.66	59.4	34.74	29.1
26	26.29	46.2	37.20	38.9	36.24	56.3	35.02	26.6
Dez. 6	26.65	43.4	37.52	40.1	36.90	53.6	35.33	24.1
16	27.04	40.9	37.87	41.8	37.63	51.4	35.66	21.6
26	27.45	38.8	38.22	43.7	38.39	49.7	36.01	19.3
36	27.86	37.1	38.58	45.9	39.17	48.6	36.36	17.5
Mittel. Ort	25.43	66.6	36.25	37.0	36.25	83.1	33.97	40.5

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1909	α Muscae. 2 ^m .8.		γ Centauri. 2 ^m .3.		76 Ursae maj. 6 ^m .2.		β Crucis. 1 ^m .4.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. -
	12 ^h 31 ^m	68° 37'	12 ^h 36 ^m	48° 27'	12 ^h 37 ^m	63° 12'	12 ^h 42 ^m	59° 11'
Jan. 0	43.74	38.4	28.43	15.4	34.78	32.9	22.55	5.8
10	44.44	40.1	28.86	17.6	35.40	31.9	23.09	7.5
20	45.10	42.3	29.28	20.0	36.00	31.5	23.60	9.7
30	45.71	45.0	29.66	22.6	36.56	31.8	24.08	12.3
Febr. 9	46.25	48.0	30.01	25.5	37.07	32.7	24.50	15.3
19	46.70	51.4	30.30	28.5	37.51	34.1	24.86	18.4
März 1	47.07	54.9	30.54	31.7	37.87	36.0	25.17	21.7
11	47.34	58.5	30.73	34.8	38.15	38.4	25.40	25.1
21	47.53	62.2	30.86	37.8	38.34	41.0	25.57	28.5
31	47.62	65.8	30.95	40.7	38.43	43.8	25.68	31.9
April 10	47.62	69.3	30.99	43.5	38.44	46.7	25.72	35.1
20	47.54	72.6	30.98	46.0	38.36	49.5	25.71	38.1
30	47.39	75.6	30.93	48.3	38.22	52.1	25.63	40.8
Mai 10	47.16	78.4	30.85	50.3	38.01	54.5	25.52	43.3
20	46.87	80.7	30.73	52.0	37.76	56.5	25.36	45.4
30	46.53	82.6	30.59	53.2	37.46	58.2	25.15	47.1
Juni 9	46.14	84.2	30.42	54.1	37.14	59.4	24.92	48.4
19	45.70	85.2	30.24	54.6	36.80	60.1	24.65	49.3
29	45.25	85.7	30.04	54.7	36.44	60.3	24.36	49.7
Juli 9	44.78	85.7	29.83	54.4	36.10	59.9	24.06	49.6
19	44.31	85.1	29.62	53.6	35.76	59.1	23.76	49.1
29	43.85	84.1	29.41	52.6	35.44	57.8	23.46	48.1
Aug. 8	43.42	82.6	29.22	51.1	35.15	56.1	23.17	46.7
18	43.04	80.7	29.05	49.4	34.90	53.9	22.92	44.9
28	42.72	78.4	28.90	47.5	34.69	51.3	22.70	42.8
Sept. 7	42.48	75.8	28.80	45.4	34.54	48.4	22.53	40.5
17	42.33	73.1	28.74	43.2	34.44	45.2	22.43	38.0
27	42.29	70.3	28.74	41.0	34.41	41.7	22.40	35.5
Okt. 7	42.37	67.3	28.81	38.7	34.46	37.7	22.46	32.7
17	42.57	64.7	28.93	36.9	34.59	34.0	22.59	30.4
27	42.88	62.4	29.12	35.3	34.80	30.3	22.81	28.4
Nov. 6	43.30	60.4	29.38	34.1	35.09	26.6	23.12	26.7
16	43.81	58.9	29.70	33.4	35.46	23.1	23.50	25.5
26	44.41	57.9	30.07	33.2	35.91	19.9	23.94	24.7
Dez. 6	45.08	57.5	30.48	33.5	36.41	17.1	24.44	24.6
16	45.79	57.8	30.92	34.3	36.97	14.7	24.97	24.9
26	46.51	58.6	31.36	35.6	37.57	12.8	25.52	25.9
36	47.23	60.1	31.81	37.4	38.19	11.4	26.07	27.4
min. On	44.88	63.4	29.54	36.4	35.62	45.2	23.80	29.0

(474)

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1909	α Centauri. 4 ^m .4.		ε Ursae maj. 1 ^m .7.		δ Virginis. 3 ^m .4.		ι2 Can. ven. sq. 2 ^m .8.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	12 ^h 48 ^m	39° 40'	12 ^h 50 ^m	56° 26'	12 ^h 51 ^m	3° 53'	12 ^h 51 ^m	38° 48'
Jan. 0	26.32	44.7	0.77	61.6	0.05	33.9	45.35	27.3
10	26.71	46.7	1.29	60.3	0.39	31.8	45.75	25.6
20	27.09	49.0	1.79	59.6	0.71	29.8	46.13	24.4
30	27.45	51.5	2.27	59.5	1.01	28.1	46.50	23.7
Febr. 9	27.77	54.2	2.71	60.1	1.28	26.6	46.83	23.6
19	28.04	57.0	3.10	61.2	1.52	25.5	47.13	24.0
März 1	28.28	59.8	3.43	62.8	1.73	24.6	47.38	24.8
11	28.47	62.5	3.68	64.8	1.89	24.0	47.58	26.1
21	28.61	65.2	3.87	67.1	2.02	23.8	47.73	27.7
31	28.71	67.7	3.98	69.7	2.11	23.7	47.83	29.6
April 10	28.76	70.0	4.02	72.4	2.16	23.9	47.87	31.7
20	28.78	72.1	3.99	75.1	2.19	24.3	47.88	33.9
30	28.77	74.0	3.90	77.8	2.18	24.9	47.84	36.0
Mai 10	28.72	75.6	3.77	80.1	2.12	25.5	47.77	38.1
20	28.65	76.9	3.59	82.3	2.11	26.2	47.68	40.0
30	28.54	77.9	3.38	84.0	2.05	26.9	47.57	41.6
Juni 9	28.42	78.6	3.14	85.4	1.98	27.7	47.43	43.0
19	28.29	79.0	2.89	86.3	1.89	28.4	47.28	44.0
29	28.13	79.0	2.62	86.8	1.79	29.0	47.13	44.6
Juli 9	27.97	78.7	2.35	86.7	1.69	29.6	46.97	44.9
19	27.81	78.0	2.09	86.2	1.59	30.1	46.81	44.8
29	27.64	77.0	1.84	85.3	1.49	30.5	46.65	44.3
Aug. 8	27.48	75.8	1.61	83.8	1.39	30.8	46.51	43.5
18	27.34	74.3	1.40	82.0	1.30	31.0	46.38	42.3
28	27.21	72.7	1.22	79.7	1.22	31.0	46.27	40.7
Sept. 7	27.12	70.9	1.08	77.1	1.17	30.8	46.19	38.8
17	27.07	69.1	0.99	74.1	1.14	30.4	46.14	36.6
27	27.06	67.3	0.95	70.9	1.15	29.8	46.13	34.1
Okt. 7	27.11	65.5	0.98	67.5	1.19	28.9	46.16	31.4
17	27.22	64.1	1.08	63.6	1.28	27.7	46.25	28.2
27	27.38	62.9	1.23	60.0	1.41	26.3	46.39	25.0
Nov. 6	27.60	62.1	1.46	56.3	1.59	24.7	46.58	21.8
16	27.88	61.7	1.76	52.8	1.81	22.9	46.82	18.6
26	28.20	61.8	2.13	49.5	2.07	20.8	47.11	15.5
Dez. 6	28.56	62.3	2.55	46.5	2.36	18.7	47.44	12.6
16	28.95	63.3	3.02	43.9	2.67	16.4	47.81	9.9
26	29.35	64.7	3.52	41.7	3.00	14.2	48.19	7.6
36	29.76	66.5	4.04	40.1	3.34	12.0	48.59	5.6
Mittl. Ort	27.51	63.1	1.74	73.0	1.15	30.4	46.38	34.8
	482)		483)		484)		485)	

1909	8 Draconis. 5 ^m .2.		ε Virginis. 2 ^m .8.		θ Virginis. 4 ^m .3.		43 Comae. 4 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	12 ^h 51 ^m	65° 55'	12 ^h 57 ^m	11° 26'	13 ^h 5 ^m	5° 3'	13 ^h 7 ^m	28° 19'
Jan. 0	50.41 ⁶⁶	42.5 ¹²	37.71 ³⁴	54.0 ²¹	13.02 ³⁴	5.6 ²²	36.54 ³⁶	76.6 ²⁰
10	51.07 ⁶⁵	41.3 ⁴	38.05 ³²	51.9 ¹⁸	13.36 ³²	7.8 ²⁰	36.90 ³⁵	74.6 ¹⁵
20	51.72 ⁶²	40.9 ²	38.37 ³¹	50.1 ¹⁶	13.68 ³¹	9.8 ²⁰	37.25 ³⁴	73.1 ¹¹
30	52.34 ⁵⁷	41.1 ⁸	38.68 ²⁸	48.5 ¹²	13.99 ²⁸	11.8 ¹⁸	37.59 ³¹	72.0 ⁶
Febr. 9	52.91 ⁵⁰	41.9 ¹³	38.96 ²⁵	47.3 ⁹	14.27 ²⁵	13.6 ¹⁵	37.90 ²⁸	71.4 ¹
19	53.41 ⁴²	43.2 ¹⁹	39.21 ²²	46.4 ⁴	14.52 ²²	15.1 ¹³	38.18 ²⁴	71.3 ³
März 1	53.83 ³³	45.1 ²⁴	39.43 ¹⁷	46.0 ²	14.74 ¹⁸	16.4 ¹¹	38.42 ¹⁹	71.6 ⁷
11	54.16 ²³	47.5 ²⁶	39.60 ¹³	45.8 ²	14.92 ¹⁴	17.5 ⁸	38.61 ¹⁶	72.3 ¹¹
21	54.39 ¹³	50.1 ²⁸	39.73 ¹⁰	46.0 ⁴	15.06 ¹⁰	18.3 ⁵	38.77 ¹⁰	73.4 ¹⁴
31	54.52 ⁴	52.9 ³⁰	39.83 ⁶	46.4 ⁷	15.16 ⁷	18.8 ⁴	38.87 ⁸	74.8 ¹⁶
April 10	54.56 ⁶	55.9 ²⁹	39.89 ³	47.1 ⁸	15.23 ⁴	19.2 ¹	38.95 ³	76.4 ¹⁸
20	54.50 ¹⁴	58.8 ²⁷	39.92 ⁰	47.9 ¹⁰	15.27 ²	19.3 ¹	38.98 ¹	78.2 ¹⁸
30	54.36 ²¹	61.5 ²⁵	39.92 ²	48.9 ¹⁰	15.29 ²	19.2 ²	38.97 ³	80.0 ¹⁸
Mai 10	54.15 ²⁷	64.0 ²²	39.90 ⁴	49.9 ¹⁰	15.27 ³	19.0 ³	38.94 ⁶	81.8 ¹⁷
20	53.88 ³³	66.2 ¹⁸	39.86 ⁷	50.9 ¹⁰	15.24 ⁵	18.7 ⁴	38.88 ⁸	83.5 ¹⁵
30	53.55 ³⁶	68.0 ¹³	39.79 ⁸	51.9 ⁹	15.19 ⁶	18.3 ⁵	38.80 ¹⁰	85.0 ¹⁴
Juni 9	53.19 ³⁹	69.3 ⁹	39.71 ⁸	52.8 ⁹	15.13 ⁸	17.8 ⁵	38.70 ¹¹	86.4 ¹¹
19	52.80 ⁴⁰	70.2 ³	39.63 ¹⁰	53.7 ⁷	15.05 ⁹	17.3 ⁵	38.59 ¹³	87.5 ⁹
29	52.40 ⁴⁰	70.5 ²	39.53 ¹¹	54.4 ⁶	14.96 ¹¹	16.8 ⁶	38.46 ¹³	88.4 ⁵
Juli 9	52.00 ⁴⁰	70.3 ⁸	39.42 ¹¹	55.0 ⁴	14.85 ¹⁰	16.2 ⁶	38.33 ¹³	88.9 ³
19	51.60 ³⁸	69.5 ¹²	39.31 ¹⁰	55.4 ³	14.75 ¹¹	15.6 ⁶	38.20 ¹⁴	89.2 ¹
29	51.22 ³⁵	68.3 ¹⁷	39.21 ¹¹	55.7 ⁰	14.64 ¹⁰	15.0 ⁵	38.06 ¹³	89.1 ⁴
Aug. 8	50.87 ³¹	66.6 ²¹	39.10 ⁹	55.7 ¹	14.54 ¹⁰	14.5 ⁴	37.93 ¹²	88.7 ⁷
18	50.56 ²⁷	64.5 ²⁶	39.01 ⁸	55.6 ³	14.44 ⁸	14.1 ⁴	37.81 ¹⁰	88.0 ¹⁰
28	50.29 ²¹	61.9 ²⁹	38.93 ⁶	55.3 ⁶	14.36 ⁷	13.7 ²	37.71 ⁹	87.0 ¹⁴
Sept. 7	50.08 ¹⁵	59.0 ³²	38.87 ⁴	54.7 ⁸	14.29 ⁴	13.5 ¹	37.62 ⁵	85.6 ¹⁶
17	49.93 ⁸	55.8 ³⁵	38.83 ⁰	53.9 ¹⁰	14.25 ¹	13.4 ¹	37.57 ³	84.0 ¹⁹
27	49.85 ⁰	52.3 ³⁶	38.83 ⁴	52.9 ¹³	14.24 ³	13.5 ³	37.54 ²	82.1 ²²
Okt. 7	49.85 ¹⁰	48.7 ⁴²	38.87 ⁹	51.6 ¹⁷	14.27 ⁸	13.8 ⁶	37.56 ⁷	79.9 ²⁷
17	49.95 ¹⁸	44.5 ³⁸	38.96 ¹²	49.9 ¹⁹	14.35 ¹²	14.4 ⁸	37.63 ¹¹	77.2 ²⁷
27	50.13 ²⁸	40.7 ³⁷	39.08 ¹⁷	48.0 ²⁰	14.47 ¹⁶	15.2 ¹¹	37.74 ¹⁶	74.5 ²⁸
Nov. 6	50.41 ³⁷	37.0 ³⁶	39.25 ²¹	46.0 ²²	14.63 ²²	16.3 ¹⁴	37.90 ²¹	71.7 ²⁸
16	50.78 ⁴⁵	33.4 ³⁴	39.46 ²⁵	43.8 ²³	14.85 ²⁵	17.7 ¹⁶	38.11 ²⁶	68.9 ²⁹
26	51.23 ⁵³	30.0 ³⁰	39.71 ²⁹	41.5 ²⁴	15.10 ²⁸	19.3 ¹⁸	38.37 ²⁹	66.0 ²⁹
Dez. 6	51.76 ⁵⁹	27.0 ²⁵	40.00 ³²	39.1 ²⁴	15.38 ³²	21.1 ²⁰	38.66 ³³	63.1 ²⁶
16	52.35 ⁶³	24.5 ²¹	40.32 ³³	36.7 ²³	15.70 ³³	23.1 ²¹	38.99 ³⁵	60.5 ²⁵
26	52.98 ⁶⁵	22.4 ¹⁴	40.65 ³⁴	34.4 ²²	16.03 ³⁴	25.2 ²²	39.34 ³⁶	58.0 ²¹
36	53.63	21.0	40.99	32.2	16.37	27.4	39.70	55.9
Mittl. Ort	51.36	55.3	38.82	53.1	14.22	12.2	37.68	81.2
	(486)		(488)		(490)		(492)	

1909	γ Hydrae. 3 ^m .I.		ε Centauri. 2 ^m .9.		ζ Urs. maj. pr. 2 ^m .2.		α Virginis. 1 ^m .I.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	13 ^h 13 ^m	22° 41'	13 ^h 15 ^m	36° 13'	13 ^h 20 ^m	55° 23'	13 ^h 20 ^m	10° 41'
Jan. 0	57.00	17.5	27.20	40.2	14.60	50.2	22.51	3.3
10	57.35	19.5	27.58	42.0	15.10	48.5	22.86	5.4
20	57.70	21.7	27.96	44.1	15.60	47.4	23.19	7.5
30	58.02	23.8	28.32	46.3	16.08	47.0	23.50	9.5
Febr. 9	58.32	26.0	28.65	48.8	16.53	47.1	23.79	11.4
19	58.59	28.2	28.95	51.3	16.94	47.8	24.06	13.1
März 1	58.82	30.2	29.21	53.8	17.30	49.2	24.29	14.7
11	59.02	32.2	29.42	56.3	17.59	51.0	24.48	16.0
21	59.18	33.9	29.59	58.7	17.82	53.2	24.63	17.1
31	59.29	35.5	29.72	61.0	17.98	55.7	24.76	18.0
April 10	59.38	36.9	29.82	63.2	18.06	58.3	24.85	18.6
20	59.43	38.1	29.87	65.1	18.09	61.1	24.90	19.1
30	59.45	39.0	29.89	66.9	18.05	63.8	24.93	19.4
Mai 10	59.45	39.8	29.88	68.4	17.96	66.4	24.94	19.5
20	59.42	40.4	29.84	69.7	17.83	68.7	24.92	19.4
30	59.37	40.8	29.77	70.6	17.65	70.8	24.88	19.3
Juni 9	59.30	41.0	29.68	71.4	17.44	72.5	24.82	19.0
19	59.21	40.9	29.57	71.8	17.21	73.7	24.75	18.6
29	59.11	40.7	29.44	71.9	16.95	74.5	24.65	18.2
Juli 9	59.00	40.3	29.29	71.8	16.69	74.9	24.55	17.7
19	58.88	39.8	29.14	71.3	16.42	74.7	24.44	17.1
29	58.75	39.0	28.98	70.6	16.15	74.1	24.33	16.5
Aug. 8	58.62	38.2	28.82	69.6	15.90	73.0	24.22	15.9
18	58.50	37.3	28.67	68.4	15.66	71.5	24.11	15.3
28	58.40	36.3	28.53	67.0	15.44	69.5	24.01	14.7
Sept. 7	58.32	35.3	28.43	65.6	15.26	67.1	23.93	14.3
17	58.26	34.3	28.35	64.0	15.12	64.4	23.87	13.9
27	58.24	33.5	28.31	62.4	15.03	61.3	23.85	13.7
Okt. 7	58.26	32.7	28.32	61.0	14.99	58.0	23.86	13.7
17	58.33	32.1	28.40	59.5	15.03	54.1	23.93	13.9
27	58.45	31.9	28.52	58.5	15.13	50.4	24.04	14.3
Nov. 6	58.62	31.9	28.71	57.8	15.30	46.7	24.19	15.1
16	58.84	32.3	28.95	57.4	15.54	43.1	24.39	16.1
26	59.11	33.1	29.24	57.4	15.85	39.6	24.64	17.4
Dez. 6	59.41	34.1	29.57	57.9	16.23	36.3	24.92	19.0
16	59.74	35.5	29.93	58.7	16.65	33.4	25.23	20.8
26	60.08	37.2	30.32	60.0	17.12	30.9	25.56	22.8
36	60.44	39.1	30.71	61.6	17.61	28.9	25.90	24.8
Mittl. Ort	58.32	30.1	28.61	57.1	15.82	61.4	23.83	11.7

495)

496)

497)

498)

SCHEINBARE STERNÖRTER.

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1909	Gr. 2001. 6 ^m .2.		69 H. Urs. maj. 5 ^m .5.		ζ Virginis. 3 ^m .3.		17 H. Can. ven. 4 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	13 ^h 23 ^m	72° 51'	13 ^h 25 ^m	60° 24'	13 ^h 30 ^m	0° 7'	13 ^h 30 ^m	37° 38'
Jan. 0	47.38 ⁸⁶	36.5 ¹⁴	5.54 ⁵⁵	44.1 ¹⁶	1.99 ³³	46.8 ²¹	42.81 ³⁹	46.8 ²¹
10	48.24 ⁸⁶	35.1 ⁸	6.09 ⁵⁵	42.5 ¹⁰	2.32 ³³	48.9 ²⁰	43.20 ³⁹	44.7 ¹⁵
20	49.10 ⁸⁴	34.3 ⁰	6.64 ⁵⁴	41.5 ⁴	2.65 ³¹	50.9 ¹⁸	43.59 ³⁷	43.2 ¹¹
30	49.94 ⁸⁰	34.3 ⁶	7.18 ⁵¹	41.1 ²	2.96 ²⁹	52.7 ¹⁷	43.96 ³⁵	42.1 ⁵
Febr. 9	50.74 ⁷²	34.9 ¹²	7.69 ⁴⁶	41.3 ⁹	3.25 ²⁷	54.4 ¹³	44.31 ³²	41.6 ¹
19	51.46 ⁶³	36.1 ¹⁸	8.15 ⁴¹	42.2 ¹⁴	3.52 ²³	55.7 ¹¹	44.63 ²⁸	41.7 ⁵
März 1	52.09 ⁵²	37.9 ²²	8.56 ³³	43.6 ²⁰	3.75 ²⁰	56.8 ⁸	44.91 ²⁴	42.2 ¹¹
11	52.61 ³⁸	40.1 ²⁷	8.89 ²⁶	45.6 ²³	3.95 ¹⁶	57.6 ⁵	45.15 ¹⁹	43.3 ¹⁴
21	52.99 ²⁶	42.8 ²⁹	9.15 ¹⁸	47.9 ²⁶	4.11 ¹³	58.1 ³	45.34 ¹⁴	44.7 ¹⁸
31	53.25 ¹²	45.7 ³⁰	9.33 ¹⁰	50.5 ²⁸	4.24 ¹⁰	58.4 ⁰	45.48 ¹⁰	46.5 ²⁰
April 10	53.37 ²	48.7 ³⁰	9.43 ³	53.3 ²⁹	4.34 ⁶	58.4 ²	45.58 ⁵	48.5 ²²
20	53.35 ¹⁴	51.7 ³⁰	9.46 ⁵	56.2 ²⁸	4.40 ⁴	58.2 ⁴	45.63 ¹	50.7 ²²
30	53.21 ²⁵	54.7 ²⁷	9.41 ¹¹	59.0 ²⁷	4.44 ¹	57.8 ⁵	45.64 ²	52.9 ²²
Mai 10	52.96 ³⁵	57.4 ²⁵	9.30 ¹⁶	61.7 ²⁴	4.45 ¹	57.3 ⁵	45.62 ⁶	55.1 ²¹
20	52.61 ⁴³	59.9 ²⁰	9.14 ²²	64.1 ²¹	4.44 ⁴	56.8 ⁶	45.56 ⁸	57.2 ¹⁸
30	52.18 ⁵⁰	61.9 ¹⁷	8.92 ²⁶	66.2 ¹⁷	4.40 ⁵	56.2 ⁷	45.48 ¹¹	59.0 ¹⁶
Juni 9	51.68 ⁵⁶	63.6 ¹¹	8.66 ²⁸	67.9 ¹³	4.35 ⁷	55.5 ⁷	45.37 ¹³	60.6 ¹⁴
19	51.12 ⁶⁰	64.7 ⁷	8.38 ³¹	69.2 ⁸	4.28 ⁹	54.8 ⁶	45.24 ¹⁵	62.0 ¹¹
29	50.52 ⁶¹	65.4 ⁰	8.07 ³²	70.0 ⁴	4.19 ¹⁰	54.2 ⁶	45.09 ¹⁶	63.1 ⁶
Juli 9	49.91 ⁶²	65.4 ⁵	7.75 ³³	70.4 ²	4.09 ¹⁰	53.6 ⁶	44.93 ¹⁶	63.7 ³
19	49.29 ⁶¹	64.9 ⁹	7.42 ³³	70.2 ⁷	3.99 ¹²	53.0 ⁵	44.77 ¹⁷	64.0 ²
29	48.68 ⁵⁸	64.0 ¹⁵	7.09 ³¹	69.5 ¹²	3.87 ¹¹	52.5 ⁴	44.60 ¹⁷	63.8 ⁵
Aug. 8	48.10 ⁵⁵	62.5 ²⁰	6.78 ²⁹	68.3 ¹⁶	3.76 ¹¹	52.1 ³	44.43 ¹⁵	63.3 ⁹
18	47.55 ⁴⁹	60.5 ²⁵	6.49 ²⁷	66.7 ²¹	3.65 ¹⁰	51.8 ¹	44.28 ¹⁵	62.4 ¹³
28	47.06 ⁴²	58.0 ²⁸	6.22 ²³	64.6 ²⁵	3.55 ⁸	51.7 ⁰	44.13 ¹²	61.1 ¹⁷
Sept. 7	46.64 ³⁴	55.2 ³²	5.99 ¹⁸	62.1 ²⁹	3.47 ⁷	51.7 ²	44.01 ⁹	59.4 ²⁰
17	46.30 ²⁵	52.0 ³⁵	5.81 ¹³	59.2 ³²	3.40 ³	51.9 ³	43.92 ⁶	57.4 ²³
27	46.05 ¹⁵	48.5 ³⁷	5.68 ⁶	56.0 ³⁴	3.37 ⁰	52.2 ⁶	43.86 ²	55.1 ²⁶
Okt. 7	45.90 ²	44.8 ⁴²	5.62 ¹	52.6 ⁴⁰	3.37 ⁵	52.8 ⁸	43.84 ³	52.5 ²⁹
17	45.88 ¹¹	40.6 ³⁹	5.63 ⁹	48.6 ³⁸	3.42 ¹⁰	53.6 ¹²	43.87 ⁹	49.6 ³³
27	45.99 ²³	36.7 ³⁹	5.72 ¹⁸	44.8 ³⁸	3.52 ¹⁴	54.8 ¹⁴	43.96 ¹³	46.3 ³²
Nov. 6	46.22 ³⁶	32.8 ³⁸	5.90 ²⁵	41.0 ³⁷	3.66 ¹⁹	56.2 ¹⁶	44.09 ¹⁹	43.1 ³³
16	46.58 ⁴⁸	29.0 ³⁵	6.15 ³³	37.3 ³⁶	3.85 ²²	57.8 ¹⁸	44.28 ²⁵	39.8 ³²
26	47.06 ⁵⁹	25.5 ³³	6.48 ⁴⁰	33.7 ³³	4.07 ²⁷	59.6 ²⁰	44.53 ²⁹	36.6 ³²
Dez. 6	47.65 ⁷⁰	22.2 ²⁸	6.88 ⁴⁷	30.4 ³⁰	4.34 ³⁰	61.6 ²¹	44.82 ³⁴	33.4 ²⁹
16	48.35 ⁷⁷	19.4 ²³	7.35 ⁵¹	27.4 ²⁵	4.64 ³²	63.7 ²¹	45.16 ³⁶	30.5 ²⁷
26	49.12 ⁸³	17.1 ¹⁷	7.86 ⁵⁴	24.9 ¹⁹	4.96 ³⁴	65.8 ²²	45.52 ³⁸	27.8 ²³
36	49.95	15.4	8.40	23.0	5.30	68.0	45.90	25.5
Mitt. Ort	48.76	50.0	6.80	56.2	3.31	51.4	44.08	54.1
	(499)		(500)		(501)		(502)	

1909	ε Centauri. 2 ^m .4.		τ Bootis. 4 ^m .5.		η Ursae maj. 1 ^m .8.		89 Virginis. 5 ^m .2.	
	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	13 ^h 34 ^m	52° 59'	13 ^h 42 ^m	17° 54'	13 ^h 43 ^m	49° 45'	13 ^h 44 ^m	17° 40'
Jan. 0	5.06	54.0 ¹⁶	54.92	34.4 ²²	56.02	51.8 ²⁰	53.98	41.8 ¹⁸
10	5.55 ⁴⁹	55.6 ¹⁶	55.26 ³⁴	34.2 ²²	56.46 ⁴⁴	49.8 ¹⁵	54.33 ³⁴	43.6 ²⁰
20	6.03 ⁴⁸	57.7 ²³	55.60 ³²	30.2 ¹⁵	56.91 ⁴³	48.3 ⁹	54.67 ³³	45.6 ²²
30	6.49 ⁴⁶	60.0 ²⁷	55.92 ³¹	28.7 ¹²	57.34 ⁴²	47.4 ³	55.00 ³¹	47.6 ²⁰
Febr. 9	6.92 ⁴³	62.7 ²⁸	56.23 ²⁸	27.5 ⁷	57.76 ³⁹	47.1 ³	55.31 ²⁸	49.6 ¹⁹
19	7.31 ³⁵	65.5 ³⁰	56.51 ²⁶	26.8 ⁴	58.15 ³⁴	47.4 ⁹	55.59 ²⁶	51.5 ¹⁸
März 1	7.66 ²⁹	68.5 ³⁰	56.77 ²¹	26.4 ¹	58.49 ²⁸	48.3 ¹⁵	55.85 ²²	53.3 ¹⁶
11	7.95 ²⁵	71.5 ³⁰	56.98 ¹⁸	26.5 ⁵	58.77 ²⁴	49.8 ¹⁹	56.07 ¹⁸	54.9 ¹⁴
21	8.20 ¹⁹	74.5 ³⁰	57.16 ¹⁴	27.0 ⁸	59.01 ¹⁸	51.7 ²²	56.25 ¹⁵	56.3 ¹¹
31	8.39 ¹⁴	77.5 ²⁷	57.30 ¹¹	27.8 ¹⁰	59.19 ¹²	53.9 ²⁵	56.40 ¹²	57.5 ¹⁰
April 10	8.53 ¹⁰	80.2 ²⁶	57.41 ⁷	28.8 ¹²	59.31 ⁶	56.4 ²⁶	56.52 ⁸	58.5 ⁹
20	8.63 ³	82.8 ²⁴	57.48 ⁴	30.0 ¹⁴	59.37 ¹	59.0 ²⁶	56.60 ⁶	59.4 ⁷
30	8.66 ⁰	85.2 ²²	57.52 ¹	31.4 ¹⁴	59.38 ⁴	61.6 ²⁶	56.66 ⁰	60.1 ⁵
Mai 10	8.66 ⁵	87.4 ¹⁸	57.53 ¹	32.8 ¹⁵	59.34 ⁸	64.2 ²⁵	56.68 ⁰	60.6 ³
20	8.61 ⁹	89.2 ¹⁵	57.52 ⁴	34.3 ¹⁴	59.26 ¹²	66.7 ²²	56.68 ²	60.9 ²
30	8.52 ¹³	90.7 ¹²	57.48 ⁶	35.7 ¹³	59.14 ¹⁵	68.9 ¹⁸	56.66 ⁴	61.1 ⁰
Juni 9	8.39 ¹⁶	91.9 ⁸	57.42 ⁸	37.0 ¹¹	58.99 ¹⁸	70.7 ¹⁵	56.62 ⁷	61.1 ¹
19	8.23 ²⁰	92.7 ⁴	57.34 ¹⁰	38.1 ¹⁰	58.81 ²⁰	72.2 ¹²	56.55 ⁸	61.0 ²
29	8.03 ²²	93.1 ⁰	57.24 ¹¹	39.1 ⁷	58.61 ²²	73.4 ⁷	56.47 ¹¹	60.8 ³
Juli 9	7.81 ²⁵	93.1 ⁴	57.13 ¹²	39.8 ⁶	58.39 ²³	74.1 ²	56.36 ¹¹	60.5 ⁵
19	7.56 ²⁴	92.7 ⁷	57.01 ¹³	40.4 ³	58.16 ²⁴	74.3 ³	56.25 ¹²	60.0 ⁶
29	7.32 ²⁵	92.0 ¹²	56.88 ¹³	40.7 ⁰	57.92 ²³	74.0 ⁷	56.13 ¹³	59.4 ⁶
Aug. 8	7.07 ²⁴	90.8 ¹⁴	56.75 ¹²	40.7 ²	57.69 ²²	73.3 ¹²	56.00 ¹³	58.8 ⁷
18	6.83 ²²	89.4 ¹⁷	56.63 ¹²	40.5 ⁵	57.47 ²¹	72.1 ¹⁶	55.87 ¹¹	58.1 ⁷
28	6.61 ¹⁹	87.7 ²⁰	56.51 ¹⁰	40.0 ⁸	57.26 ¹⁸	70.5 ²⁰	55.76 ¹⁰	57.4 ⁷
Sept. 7	6.42 ¹⁴	85.7 ²¹	56.41 ⁸	39.2 ¹⁰	57.08 ¹⁵	68.5 ²³	55.66 ⁸	56.7 ⁶
17	6.28 ¹⁰	83.6 ²¹	56.33 ⁵	38.2 ¹³	56.93 ¹¹	66.2 ²⁸	55.58 ⁵	56.1 ⁶
27	6.18 ³	81.5 ²²	56.28 ²	36.9 ¹⁶	56.82 ⁶	63.4 ³⁰	55.53 ¹	55.5 ⁴
Okt. 7	6.15 ⁵	79.3 ²⁰	56.26 ³	35.3 ¹⁹	56.76 ¹	60.4 ³³	55.52 ³	55.1 ³
17	6.20 ¹³	77.3 ¹⁹	56.29 ⁸	33.4 ²³	56.75 ⁶	57.1 ³⁹	55.55 ⁹	54.8 ^c
27	6.33 ²⁰	75.4 ¹⁵	56.37 ¹²	31.1 ²⁴	56.81 ¹²	53.2 ³⁶	55.64 ¹⁴	54.8 ³
Nov. 6	6.53 ²⁷	73.9 ¹⁰	56.49 ¹⁷	28.7 ²⁵	56.93 ¹⁹	49.6 ³⁶	55.78 ¹⁸	55.1 ⁶
16	6.80 ³⁴	72.9 ⁶	56.66 ²²	26.2 ²⁶	57.12 ²⁵	46.0 ³⁵	55.96 ²³	55.7 ⁸
26	7.14 ⁴⁰	72.3 ¹	56.88 ²⁶	23.6 ²⁷	57.37 ³²	42.5 ³⁴	56.19 ²⁸	56.5 ¹²
Dez. 6	7.54 ⁴⁴	72.2 ⁴	57.14 ²⁹	20.9 ²⁶	57.69 ³⁶	39.1 ³²	56.47 ³⁰	57.7 ¹⁴
16	7.98 ⁴⁸	72.6 ⁹	57.43 ³²	18.3 ²⁵	58.05 ⁴⁰	35.9 ²⁷	56.77 ³³	59.1 ¹⁶
26	8.46 ⁴⁹	73.5 ¹⁴	57.75 ³³	15.8 ²⁴	58.45 ⁴³	33.2 ²⁴	57.10 ³⁵	60.7 ¹⁸
36	8.95	74.9	58.08	13.4	58.88	30.8	57.45	62.5
Mittl. Ort	6.89	74.5	56.27	36.0	57.39	61.8	55.48	52.1
		504)		507)		509)		510)

1909	ζ Centauri. 2 ^m .6.		η Bootis. 2 ^m .8.		τ Virginis. 4 ^m .2.		II Bootis. 6 ^m .3.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	13 ^h 49 ^m	46° 50'	13 ^h 50 ^m	18° 50'	13 ^h 56 ^m	1° 58'	13 ^h 57 ^m	27° 49'
Jan. 0	49.52 ⁴⁵	7.7 ¹²	19.71 ³⁴	70.9 ²²	59.38 ³³	67.8 ²¹	1.53 ³⁵	28.3 ²³
10	49.97 ⁴⁴	8.9 ¹⁶	20.05 ³⁴	68.7 ²⁰	59.71 ³³	65.7 ²⁰	1.88 ³⁵	26.0 ¹⁹
20	50.41 ⁴²	10.5 ²⁰	20.39 ³³	66.7 ¹⁶	60.04 ³²	63.7 ¹⁸	2.23 ³⁵	24.1 ¹⁵
30	50.83 ⁴⁰	12.5 ²²	20.72 ³²	65.1 ¹²	60.36 ³¹	61.9 ¹⁶	2.58 ³³	22.6 ¹⁰
Febr. 9	51.23 ³⁷	14.7 ²⁴	21.04 ²⁹	63.9 ⁷	60.67 ²⁷	60.3 ¹³	2.91 ³¹	21.6 ⁵
19	51.60 ³³	17.1 ²⁵	21.33 ²⁶	63.2 ³	60.94 ²⁶	59.0 ¹⁰	3.22 ²⁷	21.1 ⁰
März 1	51.93 ²⁹	19.6 ²⁷	21.59 ²²	62.9 ⁰	61.20 ²²	58.0 ⁷	3.49 ²⁴	21.1 ⁵
11	52.22 ²⁵	22.3 ²⁶	21.81 ¹⁹	62.9 ⁵	61.42 ¹⁹	57.3 ⁴	3.73 ²⁰	21.6 ⁹
21	52.47 ¹⁹	24.9 ²⁷	22.00 ¹⁵	63.4 ⁹	61.61 ¹⁵	56.9 ¹	3.93 ¹⁶	22.5 ¹³
31	52.66 ¹⁶	27.6 ²⁶	22.15 ¹¹	64.3 ¹⁰	61.76 ¹³	56.8 ¹	4.09 ¹³	23.8 ¹⁵
April 10	52.82 ¹¹	30.2 ²⁴	22.26 ⁸	65.3 ¹³	61.89 ⁹	56.9 ³	4.22 ⁸	25.3 ¹⁸
20	52.93 ⁷	32.6 ²³	22.34 ⁵	66.6 ¹⁴	61.98 ⁶	57.2 ⁶	4.30 ⁵	27.1 ¹⁸
30	53.00 ²	34.9 ²¹	22.39 ¹	68.0 ¹⁵	62.04 ⁴	57.8 ⁶	4.35 ¹	28.9 ¹⁹
Mai 10	53.02 ¹	37.0 ¹⁹	22.40 ⁰	69.5 ¹⁵	62.08 ⁰	58.4 ⁷	4.36 ¹	30.8 ¹⁹
20	53.01 ⁵	38.9 ¹⁷	22.40 ⁴	71.0 ¹⁴	62.08 ¹	59.1 ⁸	4.35 ⁴	32.7 ¹⁸
30	52.96 ⁸	40.6 ¹³	22.36 ⁶	72.4 ¹⁴	62.07 ⁴	59.9 ⁸	4.31 ⁷	34.5 ¹⁶
Juni 9	52.88 ¹²	41.9 ¹¹	22.30 ⁷	73.8 ¹²	62.03 ⁵	60.7 ⁷	4.24 ⁹	36.1 ¹⁵
19	52.76 ¹⁵	43.0 ⁷	22.23 ¹⁰	75.0 ¹⁰	61.98 ⁸	61.4 ⁷	4.15 ¹¹	37.6 ¹¹
29	52.61 ¹⁸	43.7 ³	22.13 ¹¹	76.0 ⁸	61.90 ⁹	62.1 ⁷	4.04 ¹²	38.7 ⁹
Juli 9	52.43 ¹⁹	44.0 ⁰	22.02 ¹²	76.8 ⁵	61.81 ¹¹	62.8 ⁵	3.92 ¹⁴	39.6 ⁶
19	52.24 ²¹	44.0 ³	21.90 ¹³	77.3 ³	61.70 ¹¹	63.3 ⁵	3.78 ¹⁵	40.2 ²
29	52.03 ²¹	43.7 ⁷	21.77 ¹³	77.6 ¹	61.59 ¹³	63.8 ⁴	3.63 ¹⁵	40.4 ¹
Aug. 8	51.82 ²¹	43.0 ¹⁰	21.64 ¹³	77.7 ²	61.46 ¹²	64.2 ²	3.48 ¹⁵	40.3 ⁴
18	51.61 ²⁰	42.0 ¹³	21.51 ¹²	77.5 ⁵	61.34 ¹¹	64.4 ¹	3.33 ¹⁴	39.9 ⁸
28	51.41 ¹⁷	40.7 ¹⁶	21.39 ¹¹	77.0 ⁸	61.23 ¹⁰	64.5 ¹	3.19 ¹²	39.1 ¹¹
Sept. 7	51.24 ¹⁴	39.1 ¹⁷	21.28 ⁹	76.2 ¹¹	61.13 ⁹	64.4 ²	3.07 ¹¹	38.0 ¹⁵
17	51.10 ⁹	37.4 ¹⁹	21.19 ⁶	75.1 ¹⁴	61.04 ⁵	64.2 ⁵	2.96 ⁷	36.5 ¹⁷
27	51.01 ⁴	35.5 ¹⁹	21.13 ²	73.7 ¹⁶	60.99 ³	63.7 ⁷	2.89 ⁴	34.8 ²¹
Okt. 7	50.97 ²	33.6 ¹⁸	21.11 ²	72.1 ¹⁹	60.96 ²	63.0 ⁹	2.85 ⁰	32.7 ²³
17	50.99 ¹⁰	31.8 ¹⁹	21.13 ⁷	70.2 ²⁴	60.98 ⁷	62.1 ¹³	2.85 ⁶	30.4 ²⁹
27	51.09 ¹⁶	29.9 ¹⁴	21.20 ¹¹	67.8 ²⁴	61.05 ¹¹	60.8 ¹⁴	2.91 ¹⁰	27.5 ²⁸
Nov. 6	51.25 ²⁴	28.5 ¹¹	21.31 ¹⁷	65.4 ²⁶	61.16 ¹⁶	59.4 ¹⁷	3.01 ¹⁶	24.7 ²⁹
16	51.49 ²⁹	27.4 ⁸	21.48 ²¹	62.8 ²⁶	61.32 ²¹	57.7 ¹⁹	3.17 ²⁰	21.8 ³⁰
26	51.78 ³⁵	26.6 ³	21.69 ²⁵	60.2 ²⁸	61.53 ²⁵	55.8 ²⁰	3.37 ²⁶	18.8 ³⁰
Dez. 6	52.13 ³⁹	26.3 ¹	21.94 ²⁹	57.4 ²⁷	61.78 ²⁸	53.8 ²¹	3.63 ²⁹	15.8 ³⁰
16	52.52 ⁴²	26.4 ⁶	22.23 ³²	54.7 ²⁵	62.06 ³¹	51.7 ²²	3.92 ³²	12.8 ²⁷
26	52.94 ⁴⁵	27.0 ¹⁰	22.55 ³³	52.2 ²⁴	62.37 ³²	49.5 ²²	4.24 ³⁵	10.1 ²⁵
36	53.39	28.0	22.88	49.8	62.69	47.3	4.59	7.6
Mittl. Ort	51.40	26.6	21.11	72.9	60.86	64.3	2.94	32.9
	512)		513)		516)		517)	

1909	β Centauri. 1 ^m .		δ Centauri. 2 ^m .I.		α Draconis. 3 ^m .4.		d Bootis. 4 ^m .9.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	13 ^h 57 ^m	59° 55'	14 ^h 1 ^m	35° 55'	14 ^h 1 ^m	64° 48'	14 ^h 6 ^m	25° 30'
Jan. 0	21.23	42.5	17.55	5.9	53.84	25.9	13.49	76.7
10	21.80	43.2	17.94	7.3	54.43	23.8	13.83	74.3
20	22.37	44.5	18.33	9.0	55.04	22.4	14.18	72.4
30	22.92	46.2	18.70	10.9	55.66	21.7	14.52	70.8
Febr. 9	23.44	48.3	19.06	13.0	56.25	21.6	14.85	69.7
19	23.93	50.7	19.39	15.1	56.81	22.1	15.16	69.1
März 1	24.37	53.4	19.69	17.4	57.31	23.3	15.44	69.0
11	24.76	56.2	19.96	19.6	57.75	25.0	15.68	69.3
21	25.08	59.2	20.18	21.8	58.11	27.2	15.88	70.1
31	25.35	62.2	20.37	24.0	58.38	29.8	16.05	71.2
April 10	25.56	65.3	20.52	26.0	58.56	32.7	16.19	72.6
20	25.71	68.3	20.64	27.9	58.66	35.6	16.28	74.3
30	25.79	71.2	20.72	29.6	58.67	38.6	16.34	76.1
Mai 10	25.82	73.9	20.76	31.2	58.59	41.5	16.37	77.9
20	25.79	76.4	20.77	32.6	58.45	44.3	16.36	79.7
30	25.71	78.7	20.75	33.7	58.23	46.7	16.33	81.5
Juni 9	25.57	80.6	20.70	34.6	57.95	48.8	16.28	83.1
19	25.38	82.2	20.63	35.3	57.63	50.5	16.20	84.5
29	25.15	83.4	20.52	35.8	57.27	51.7	16.10	85.7
Juli 9	24.89	84.2	20.39	35.9	56.88	52.4	15.98	86.6
19	24.59	84.6	20.25	35.9	56.47	52.6	15.85	87.3
29	24.28	84.5	20.09	35.5	56.05	52.3	15.70	87.6
Aug. 8	23.95	83.9	19.92	34.9	55.63	51.5	15.56	87.6
18	23.63	83.0	19.74	34.0	55.23	50.1	15.41	87.3
28	23.33	81.6	19.58	33.0	54.85	48.3	15.27	86.7
Sept. 7	23.06	79.9	19.44	31.8	54.50	46.0	15.14	85.7
17	22.84	77.9	19.32	30.5	54.20	43.3	15.03	84.4
27	22.68	75.7	19.24	29.1	53.95	40.3	14.95	82.8
Okt. 7	22.59	73.4	19.20	27.8	53.78	36.9	14.90	80.8
17	22.59	71.0	19.21	26.5	53.69	33.2	14.89	78.6
27	22.69	68.5	19.29	25.2	53.68	29.1	14.93	76.1
Nov. 6	22.88	66.4	19.42	24.4	53.77	25.2	15.03	73.2
16	23.15	64.7	19.61	23.9	53.96	21.3	15.18	70.3
26	23.51	63.2	19.86	23.7	54.24	17.5	15.38	67.4
Dez. 6	23.94	62.2	20.15	23.8	54.61	14.0	15.62	64.4
16	24.44	61.7	20.49	24.3	55.06	10.7	15.90	61.5
26	24.97	61.8	20.86	25.2	55.58	7.9	16.22	58.8
36	25.54	62.3	21.24	26.5	56.15	5.5	16.55	56.3
Mittl. Ort	23.59	63.8	19.35	21.5	55.49	38.2	14.96	80.7

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SCHEINBARE STERNÖRTER.

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1909	α Virginis. 4 ^m .2.		4 Ursae min. 5 ^m .0.		ε Virginis. 4 ^m .0.		α Bootis. 1 ^m .	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 8 ^m	9° 50'	14 ^h 9 ^m	77° 57'	14 ^h 11 ^m	5° 33'	14 ^h 11 ^m	19° 38'
Jan. 0	0.78	54.6	8.91	77.2	12.86	54.3	29.11	78.8
10	1.12 ³⁴	56.5 ¹⁹	9.98 ¹⁰⁷	77.2 ¹⁹	13.18 ³²	56.3 ²⁰	29.44 ³³	76.4 ²⁴
20	1.45 ³³	58.4 ¹⁹	11.11 ¹¹³	75.3 ¹²	13.51 ³³	58.3 ²⁰	29.77 ³³	74.3 ²¹
30	1.77 ³²	60.3 ¹⁹	12.26 ¹¹⁵	74.1 ⁶	13.83 ³²	60.2 ¹⁹	30.10 ³³	72.6 ¹⁷
Febr. 9	2.08 ³¹	62.1 ¹⁸	13.40 ¹¹⁴	73.5 ¹	14.14 ³¹	61.9 ¹⁷	30.42 ³²	71.3 ¹³
19	2.37 ²⁹	63.7 ¹⁶	14.47 ¹⁰⁷	73.6 ⁸	14.14 ²⁹	61.9 ¹⁵	30.42 ³⁰	71.3 ⁹
März 1	2.37 ²⁶	63.7 ¹⁴	14.47 ⁹⁸	74.4 ¹³	14.43 ²⁶	63.4 ¹³	30.72 ²⁷	70.4 ⁴
11	2.63 ²³	65.1 ¹²	15.45 ⁸⁴	75.7 ²⁰	14.69 ²⁴	64.7 ¹⁰	30.99 ²⁴	70.0 ⁰
21	2.86 ²⁰	66.3 ¹⁰	16.29 ⁶⁹	77.7 ²⁴	14.93 ²⁰	65.7 ⁸	31.23 ²⁰	70.0 ⁴
31	3.06 ¹⁷	67.3 ⁸	16.98 ⁵²	80.1 ²⁷	15.13 ¹⁷	66.5 ⁵	31.43 ¹⁷	70.4 ⁸
April 10	3.23 ¹⁴	68.1 ⁵	17.50 ³³	82.8 ³⁰	15.30 ¹⁴	67.0 ³	31.60 ¹³	71.2 ¹¹
20	3.37 ¹⁰	68.6 ³	17.83 ¹⁵	85.8 ³¹	15.44 ¹⁰	67.3 ¹	31.73 ¹⁰	72.3 ¹³
30	3.47 ⁸	68.9 ²	17.98 ⁴	88.9 ³⁰	15.54 ⁸	67.4 ¹	31.83 ⁷	73.6 ¹⁴
Mai 10	3.55 ⁵	69.1 ⁰	17.94 ²²	91.9 ³⁰	15.62 ⁵	67.3 ²	31.90 ⁴	75.0 ¹⁶
20	3.60 ²	69.1 ¹	17.72 ³⁸	94.9 ²⁸	15.67 ³	67.1 ³	31.94 ⁰	76.6 ¹⁵
30	3.62 ⁰	69.0 ²	17.34 ⁵⁴	97.7 ²⁴	15.70 ⁰	66.8 ⁴	31.94 ²	78.1 ¹⁵
Juni 9	3.62 ²	68.8 ³	16.80 ⁶⁶	100.1 ²¹	15.70 ³	66.4 ⁵	31.92 ⁴	79.6 ¹⁵
19	3.60 ⁵	68.5 ⁴	16.14 ⁷⁶	102.2 ¹⁶	15.67 ⁴	65.9 ⁵	31.88 ⁷	81.1 ¹²
29	3.55 ⁷	68.1 ⁴	15.38 ⁸⁶	103.8 ¹¹	15.63 ⁷	65.4 ⁵	31.81 ⁹	82.3 ¹¹
Juli 9	3.48 ⁹	67.7 ⁴	14.52 ⁹¹	104.9 ⁶	15.56 ⁹	64.9 ⁵	31.72 ¹¹	83.4 ⁹
19	3.39 ¹¹	67.3 ⁵	13.61 ⁹⁵	105.5 ⁰	15.47 ¹⁰	64.4 ⁵	31.61 ¹²	84.3 ⁶
29	3.28 ¹¹	66.8 ⁵	12.66 ⁹⁷	105.5 ⁵	15.37 ¹²	63.9 ⁵	31.49 ¹⁴	84.9 ⁴
Aug. 8	3.17 ¹³	66.3 ⁵	11.69 ⁹⁶	105.0 ¹⁰	15.25 ¹²	63.4 ⁵	31.35 ¹⁴	85.3 ¹
18	3.04 ¹³	65.8 ⁵	10.73 ⁹³	104.0 ¹⁵	15.13 ¹³	62.9 ⁴	31.21 ¹⁴	85.4 ²
28	2.91 ¹²	65.3 ⁴	9.80 ⁸⁸	102.5 ²⁰	15.00 ¹²	62.5 ²	31.07 ¹⁴	85.2 ⁵
Sept. 7	2.79 ¹¹	64.9 ⁴	8.92 ⁸¹	100.5 ²⁵	14.88 ¹²	62.3 ²	30.93 ¹³	84.7 ⁸
17	2.68 ⁹	64.5 ²	8.11 ⁷¹	98.0 ²⁸	14.76 ⁹	62.1 ¹	30.80 ¹¹	83.9 ¹¹
27	2.59 ⁷	64.3 ²	7.40 ⁵⁹	95.2 ³³	14.67 ⁷	62.0 ¹	30.69 ⁸	82.8 ¹⁴
Okt. 7	2.52 ³	64.1 ⁰	6.81 ⁴⁶	91.9 ³⁵	14.60 ³	62.1 ²	30.61 ⁵	81.4 ¹⁷
17	2.49 ¹	64.1 ³	6.35 ³¹	88.4 ³⁷	14.57 ⁰	62.3 ⁵	30.56 ¹	79.7 ¹⁹
27	2.50 ⁵	64.4 ⁴	6.04 ¹⁵	84.7 ³⁹	14.57 ⁵	62.8 ⁷	30.55 ⁴	77.8 ²²
Nov. 6	2.55 ¹²	64.8 ⁷	5.89 ⁵	80.8 ⁴³	14.62 ¹¹	63.5 ¹¹	30.59 ⁹	75.6 ²⁷
16	2.67 ¹⁶	65.5 ¹⁰	5.94 ²⁴	76.5 ³⁹	14.73 ¹⁵	64.6 ¹²	30.68 ¹⁴	72.9 ²⁶
26	2.83 ²⁰	66.5 ¹²	6.18 ⁴²	72.6 ³⁸	14.88 ²⁰	65.8 ¹⁴	30.82 ¹⁹	70.3 ²⁸
Dez. 6	3.03 ²⁵	67.7 ¹⁴	6.60 ⁶⁰	68.8 ³⁵	15.08 ²⁴	67.2 ¹⁷	31.01 ²³	67.3 ²⁸
16	3.28 ²⁸	69.1 ¹⁷	7.20 ⁷⁶	65.3 ³²	15.32 ²⁸	68.9 ¹⁸	31.24 ²⁸	64.7 ²⁸
26	3.56 ³¹	70.8 ¹⁸	7.96 ⁹¹	62.1 ²⁷	15.60 ³¹	70.7 ²⁰	31.52 ³⁰	61.9 ²⁷
36	3.87 ³³	72.6 ¹⁹	8.87 ¹⁰³	59.4 ²²	15.91 ³²	72.7 ²⁰	31.82 ³²	59.2 ²⁵
	4.20	74.5	9.90	57.2	16.23	74.7	32.14	56.7
Min. Ort	2.37	61.8	11.27	90.5	14.44	60.1	30.61	81.1

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1909	λ Bootis. 4 ^m .0.		θ Bootis. 3 ^m .9.		ρ Bootis. 3 ^m .7.		γ Bootis. 2 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	14 ^h 12 ^m	46° 29'	14 ^h 22 ^m	52° 15'	14 ^h 27 ^m	30° 45'	14 ^h 28 ^m	38° 41'
Jan. 0	53.97	71.9 ²⁴	4.31	65.7 ²⁴	52.92	68.4 ²⁵	23.25	74.1 ²⁵
10	54.37 ⁴⁰	69.5 ¹⁸	4.74 ⁴³	63.3 ¹⁹	53.27 ³⁵	65.9 ²¹	23.61	71.6 ²⁰
20	54.79 ⁴²	67.7 ¹³	5.19 ⁴⁵	61.4 ¹³	53.62 ³⁵	63.8 ¹⁶	23.99	69.6 ¹⁶
30	55.20 ⁴¹	66.4 ⁶	5.64 ⁴⁵	60.1 ⁶	53.97 ³⁵	62.2 ¹¹	24.37	68.0 ¹⁰
Febr. 9	55.61 ⁴¹	65.8 ¹	6.09 ⁴²	59.5 ⁰	54.32 ³²	61.1 ⁶	24.74	67.0 ⁴
19	55.99 ³⁵	65.7 ⁶	6.51 ³⁹	59.5 ⁶	54.64 ³⁰	60.5 ¹	25.09	66.6 ²
März 1	56.34 ³⁰	66.3 ¹¹	6.90 ³⁴	60.1 ¹²	54.94 ²⁷	60.4 ⁴	25.41	66.8 ⁸
11	56.64 ²⁶	67.4 ¹⁶	7.24 ³⁰	61.3 ¹⁷	55.21 ²³	60.8 ¹⁰	25.70	67.6 ¹²
21	56.90 ²⁰	69.0 ²⁰	7.54 ²³	63.0 ²²	55.44 ²⁰	61.8 ¹³	25.95	68.8 ¹⁶
31	57.10 ¹⁶	71.0 ²³	7.77 ¹⁸	65.2 ²⁴	55.64 ¹⁵	63.1 ¹⁶	26.15	70.4 ²⁰
April 10	57.26 ¹⁰	73.3 ²⁵	7.95 ¹²	67.6 ²⁷	55.79 ¹²	64.7 ¹⁹	26.31	72.4 ²²
20	57.36 ⁵	75.8 ²⁷	8.07 ⁶	70.3 ²⁸	55.91 ⁸	66.6 ²¹	26.43	74.6 ²⁴
30	57.41 ¹	78.5 ²⁶	8.13 ¹	73.1 ²⁸	55.99 ⁵	68.7 ²¹	26.51	77.0 ²⁴
Mai 10	57.42 ⁴	81.1 ²⁵	8.14 ⁵	75.9 ²⁶	56.04 ¹	70.8 ²¹	26.55	79.4 ²⁴
20	57.38 ⁸	83.6 ²³	8.09 ⁹	78.5 ²⁵	56.05 ³	72.9 ²¹	26.55	81.8 ²³
30	57.30 ¹¹	85.9 ²¹	8.00 ¹⁴	81.0 ²²	56.02 ⁵	75.0 ¹⁹	26.51	84.1 ²¹
Juni 9	57.19 ¹⁴	88.0 ¹⁸	7.86 ¹⁷	83.2 ¹⁹	55.97 ⁸	76.9 ¹⁶	26.44	86.2 ¹⁸
19	57.05 ¹⁷	89.8 ¹⁴	7.69 ²⁰	85.1 ¹⁵	55.89 ¹⁰	78.5 ¹⁵	26.34	88.0 ¹⁵
29	56.88 ²⁰	91.2 ¹⁰	7.49 ²⁴	86.6 ¹¹	55.79 ¹³	80.0 ¹¹	26.21	89.5 ¹²
Juli 9	56.68 ²¹	92.2 ⁶	7.25 ²⁵	87.7 ⁶	55.66 ¹⁴	81.1 ⁸	26.06	90.7 ⁸
19	56.47 ²³	92.8 ²	7.00 ²⁷	88.3 ²	55.52 ¹⁶	81.9 ⁴	25.89	91.5 ³
29	56.24 ²²	93.0 ⁴	6.73 ²⁷	88.5 ⁴	55.36 ¹⁶	82.3 ¹	25.70	91.8 ⁰
Aug. 8	56.02 ²³	92.6 ⁸	6.46 ²⁷	88.1 ⁸	55.20 ¹⁸	82.4 ³	25.51	91.8 ⁴
18	55.79 ²²	91.8 ¹²	6.19 ²⁶	87.3 ¹³	55.02 ¹⁶	82.1 ⁷	25.31	91.4 ⁹
28	55.57 ²⁰	90.6 ¹⁶	5.93 ²⁵	86.0 ¹⁷	54.86 ¹⁶	81.4 ¹⁰	25.12	90.5 ¹²
Sept. 7	55.37 ¹⁷	89.0 ²¹	5.68 ²²	84.3 ²²	54.70 ¹⁴	80.4 ¹⁴	24.94	89.3 ¹⁷
17	55.20 ¹⁴	86.9 ²⁴	5.46 ¹⁸	82.1 ²⁶	54.56 ¹¹	79.0 ¹⁷	24.78	87.6 ²¹
27	55.06 ¹⁰	84.5 ²⁸	5.28 ¹³	79.5 ³⁰	54.45 ⁸	77.3 ²¹	24.64	85.5 ²⁴
Okt. 7	54.96 ⁴	81.7 ³¹	5.15 ⁸	76.5 ³²	54.37 ³	75.2 ²⁴	24.55	83.1 ²⁷
17	54.92 ¹	78.6 ³³	5.07 ²	73.3 ³⁵	54.34 ¹	72.8 ²⁶	24.50	80.4 ³⁰
27	54.93 ⁸	75.3 ³⁸	5.05 ⁶	69.8 ⁴⁰	54.35 ⁶	70.2 ³²	24.50	77.4 ³⁵
Nov. 6	55.01 ¹⁴	71.5 ³⁶	5.11 ¹³	65.8 ³⁸	54.41 ¹³	67.0 ³¹	24.56	73.9 ³⁴
16	55.15 ²⁰	67.9 ³⁶	5.24 ²⁰	62.0 ³⁷	54.54 ¹⁷	63.9 ³¹	24.68	70.5 ³⁴
26	55.35 ²⁷	64.3 ³⁵	5.44 ²⁷	58.3 ³⁶	54.71 ²²	60.8 ³²	24.85	67.1 ³⁴
Dez. 6	55.62 ³¹	60.8 ³³	5.71 ³²	54.7 ³⁴	54.93 ²⁷	57.6 ³¹	25.08	63.7 ³³
16	55.93 ³⁶	57.5 ³⁰	6.03 ³⁸	51.3 ³¹	55.20 ³¹	54.5 ²⁹	25.36	60.4 ³⁰
26	56.29 ⁴⁰	54.5 ²⁶	6.41 ⁴²	48.2 ²⁶	55.51 ³³	51.6 ²⁶	25.68	57.4 ²⁷
36	56.69	51.9	6.83	45.6	55.84	49.0	26.04	54.7
MITL. ORT	55.51	81.1	5.95	75.9	54.50	73.8	24.85	81.5
	527)		531)		534)		535)	

SCHEINBARE STERNÖRTER.

1909	η Centauri. 2 ^m .5.		α Centauri. 1 ^m .		α Apodis. 3 ^m .8.		ζ Bootis m. 3 ^m .6.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 29 ^m	41° 45'	14 ^h 33 ^m	60° 27'	14 ^h 36 ^m	78° 39'	14 ^h 36 ^m	14° 6'
Jan. 0	41.30	14.8	21.76	17.1	24.84	11.5	46.52	64.8
10	41.70	15.7	22.31	17.4	26.10	11.2	46.84	62.4
20	42.12	17.0	22.88	18.2	27.41	11.5	47.17	60.3
30	42.53	18.5	23.44	19.4	28.73	12.3	47.50	58.5
Febr. 9	42.93	20.3	23.99	21.1	30.02	13.6	47.82	57.1
19	43.30	22.3	24.52	23.1	31.25	15.5	48.12	56.0
März 1	43.65	24.4	25.00	25.4	32.41	17.7	48.40	55.4
11	43.96	26.6	25.43	27.9	33.46	20.4	48.65	55.1
21	44.23	28.8	25.82	30.7	34.39	23.3	48.88	55.3
31	44.47	31.0	26.15	33.5	35.18	26.5	49.07	55.8
April 10	44.67	33.2	26.42	36.4	35.83	29.8	49.22	56.6
20	44.83	35.2	26.63	39.4	36.32	33.2	49.35	57.7
30	44.96	37.2	26.78	42.3	36.65	36.7	49.45	59.0
Mai 10	45.04	39.1	26.88	45.0	36.81	40.1	49.52	60.3
20	45.09	40.8	26.91	47.7	36.81	43.4	49.55	61.8
30	45.10	42.2	26.87	50.1	36.64	46.5	49.56	63.2
Juni 9	45.07	43.6	26.78	52.3	36.32	49.4	49.54	64.6
19	45.01	44.6	26.64	54.2	35.84	51.9	49.50	65.8
29	44.91	45.4	26.43	55.7	35.23	54.1	49.43	67.0
Juli 9	44.78	46.0	26.18	56.9	34.49	55.8	49.34	68.0
19	44.63	46.2	25.89	57.7	33.66	57.1	49.23	68.7
29	44.45	46.2	25.57	58.0	32.75	57.8	49.10	69.3
Aug. 8	44.26	45.8	25.23	57.9	31.79	58.0	48.97	69.6
18	44.06	45.2	24.88	57.4	30.83	57.6	48.82	69.7
28	43.87	44.2	24.53	56.4	29.89	56.8	48.68	69.5
Sept. 7	43.69	43.1	24.21	55.1	29.01	55.3	48.55	69.1
17	43.53	41.8	23.92	53.4	28.24	53.5	48.43	68.4
27	43.41	40.3	23.70	51.4	27.60	51.2	48.33	67.4
Okt. 7	43.33	38.8	23.53	49.2	27.12	48.7	48.27	66.2
17	43.31	37.3	23.45	46.9	26.84	45.9	48.24	64.6
27	43.34	35.8	23.46	44.7	26.78	43.1	48.25	62.8
Nov. 6	43.45	34.4	23.57	42.3	26.98	39.9	48.32	60.6
16	43.62	33.4	23.77	40.3	27.38	37.2	48.44	58.3
26	43.86	32.7	24.07	38.6	28.00	34.7	48.60	55.8
Dez. 6	44.14	32.3	24.44	37.3	28.82	32.6	48.82	53.3
16	44.48	32.3	24.89	36.4	29.81	31.0	49.07	50.7
26	44.86	32.7	25.39	35.9	30.94	29.8	49.35	48.2
36	45.26	33.4	25.94	36.0	32.18	29.2	49.67	45.7
MINI. OR.	43.43	30.7	24.63	36.9	30.77	33.5	48.17	65.6

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1909	μ Virginis. 3 ^m .9.		109 Virginis. 3 ^m .7.		α Librae. 2 ^m .7.		Gr. 2164. 5 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	14 ^h 38 ^m	5° 15'	14 ^h 41 ^m	2° 16'	14 ^h 45 ^m	15° 39'	14 ^h 49 ^m	59° 39'
Jan. 0	14.03	41.9	37.12	35.7	48.65	42.7	5.77	37.7
10	14.35	43.9	37.44	33.6	48.97	44.4	6.25	35.1
20	14.68	45.8	37.76	31.6	49.31	46.1	6.75	33.1
30	15.00	47.6	38.08	29.8	49.65	47.8	7.27	31.6
Febr. 9	15.32	49.3	38.39	28.2	49.97	49.4	7.79	30.8
19	15.62	50.7	38.69	26.9	50.28	51.0	8.29	30.7
März 1	15.89	51.9	38.97	25.9	50.57	52.5	8.77	31.2
11	16.14	52.9	39.22	25.3	50.83	53.8	9.20	32.4
21	16.37	53.6	39.44	24.9	51.07	54.9	9.57	34.1
31	16.56	54.1	39.63	24.9	51.28	55.9	9.88	36.3
April 10	16.73	54.3	39.80	25.1	51.45	56.7	10.13	38.9
20	16.86	54.3	39.93	25.5	51.60	57.3	10.31	41.7
30	16.97	54.2	40.04	26.1	51.72	57.7	10.41	44.6
Mai 10	17.04	53.9	40.11	26.9	51.81	58.1	10.44	47.6
20	17.09	53.5	40.16	27.7	51.87	58.3	10.41	50.6
30	17.11	53.1	40.18	28.5	51.91	58.3	10.31	53.3
Juni 9	17.11	52.5	40.18	29.4	51.91	58.3	10.15	55.8
19	17.08	52.0	40.15	30.3	51.89	58.3	9.95	58.0
29	17.03	51.4	40.09	31.1	51.84	58.1	9.69	59.8
Juli 9	16.95	50.9	40.01	31.9	51.76	57.9	9.40	61.1
19	16.85	50.4	39.91	32.5	51.66	57.5	9.07	62.1
29	16.74	50.0	39.80	33.0	51.55	57.2	8.72	62.4
Aug. 8	16.61	49.6	39.67	33.4	51.42	56.8	8.36	62.2
18	16.48	49.2	39.53	33.7	51.27	56.4	7.99	61.6
28	16.34	48.9	39.40	33.8	51.13	55.9	7.63	60.5
Sept. 7	16.22	48.7	39.27	33.8	51.00	55.4	7.29	58.9
17	16.11	48.7	39.15	33.5	50.88	55.0	6.97	56.8
27	16.02	48.8	39.06	33.0	50.78	54.6	6.69	54.3
Okt. 7	15.96	49.0	39.00	32.4	50.71	54.4	6.46	51.4
17	15.94	49.5	38.97	31.5	50.68	54.2	6.30	48.1
27	15.96	50.2	38.99	30.3	50.70	54.3	6.20	44.6
Nov. 6	16.04	51.2	39.06	28.8	50.77	54.5	6.18	40.9
16	16.17	52.4	39.18	27.2	50.90	55.1	6.26	36.7
26	16.34	53.8	39.35	25.4	51.07	55.8	6.42	32.8
Dez. 6	16.56	55.4	39.56	23.4	51.29	56.8	6.66	29.0
16	16.82	57.2	39.81	21.3	51.56	58.0	6.98	25.4
26	17.11	59.0	40.09	19.2	51.86	59.4	7.37	22.2
36	17.42	61.1	40.40	17.0	52.18	61.0	7.81	19.3
Mittl. Ort	15.76	46.9	38.83	33.1	50.50	50.7	7.72	48.6

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1909	β Ursae min. 2 ^m .o.		P. XIV, 221. 6 ^m .o.		β Lupi. 2 ^m .7.		β Bootis. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	14 ^h 50 ^m	74° 31'	14 ^h 51 ^m	14° 48'	14 ^h 52 ^m	42° 45'	14 ^h 58 ^m	40° 44'
Jan. 0	54.95 ⁷⁷	26.5 ²⁴	53.77 ³¹	47.7 ²⁴	31.61 ⁴⁰	49.4 ⁷	29.31 ³⁵	49.1 ²⁷
10	55.72 ⁸⁶	24.1 ¹⁹	54.08 ³²	45.3 ²¹	32.01 ⁴²	50.1 ¹⁰	29.66 ³⁸	46.4 ²³
20	56.58 ⁸⁹	22.2 ¹²	54.40 ³³	43.2 ¹⁹	32.43 ⁴²	51.1 ¹³	30.04 ³⁸	44.1 ¹⁸
30	57.47 ⁹¹	21.0 ⁶	54.73 ³²	41.3 ¹⁵	32.85 ⁴²	52.4 ¹⁵	30.42 ³⁷	42.3 ¹²
Febr. 9	58.38 ⁸⁹	20.4 ²	55.05 ³¹	39.8 ¹⁰	33.26 ⁴¹	53.9 ¹⁸	30.79 ³⁷	41.1 ⁶
19	59.27 ⁸³	20.6 ⁸	55.36 ²⁹	38.8 ⁷	33.65 ³⁷	55.7 ¹⁹	31.16 ³⁵	40.5 ⁰
März 1	60.10 ⁷⁶	21.4 ¹⁴	55.65 ²⁶	38.1 ³	34.02 ³⁴	57.6 ²⁰	31.51 ³¹	40.5 ⁶
11	60.86 ⁶⁶	22.8 ¹⁹	55.91 ²³	37.8 ²	34.36 ³⁰	59.6 ²⁰	31.82 ²⁸	41.1 ¹¹
21	61.52 ⁵⁴	24.7 ²⁴	56.14 ²⁰	38.0 ⁵	34.66 ³⁰	61.6 ²¹	32.10 ²⁴	42.2 ¹⁶
31	62.06 ⁴¹	27.1 ²⁸	56.34 ¹⁸	38.5 ⁹	34.93 ²⁴	63.7 ²¹	32.34 ²⁰	43.8 ¹⁹
April 10	62.47 ²⁶	29.9 ³⁰	56.52 ¹⁴	39.4 ¹¹	35.17 ¹⁹	65.8 ²¹	32.54 ¹⁶	45.7 ²²
20	62.73 ¹²	32.9 ³¹	56.66 ¹¹	40.5 ¹³	35.36 ¹⁶	67.9 ²⁰	32.70 ¹¹	47.9 ²⁵
30	62.85 ¹	36.0 ³¹	56.77 ⁷	41.8 ¹⁴	35.52 ¹¹	69.9 ¹⁸	32.81 ⁷	50.4 ²⁵
Mai 10	62.84 ¹⁵	39.1 ²⁹	56.84 ⁵	43.2 ¹⁶	35.63 ⁸	71.7 ¹⁸	32.88 ³	52.9 ²⁶
20	62.69 ²⁹	42.0 ²⁸	56.89 ²	44.8 ¹⁵	35.71 ⁴	73.5 ¹⁶	32.91 ¹	55.5 ²⁵
30	62.40 ⁴⁰	44.8 ²⁵	56.91 ⁰	46.3 ¹⁴	35.75 ⁰	75.1 ¹⁴	32.90 ⁵	58.0 ²³
Juni 9	62.00 ⁵⁰	47.3 ²¹	56.91 ⁴	47.7 ¹⁴	35.75 ⁵	76.5 ¹²	32.85 ⁹	60.3 ²¹
19	61.50 ⁵⁸	49.4 ¹⁷	56.87 ⁶	49.1 ¹²	35.70 ⁸	77.7 ¹⁰	32.76 ¹²	62.4 ¹⁸
29	60.92 ⁶⁶	51.1 ¹²	56.81 ⁸	50.3 ¹¹	35.62 ¹¹	78.7 ⁷	32.64 ¹⁵	64.2 ¹⁴
Juli 9	60.26 ⁷²	52.3 ⁷	56.73 ¹¹	51.4 ⁸	35.51 ¹⁵	79.4 ⁴	32.49 ¹⁷	65.6 ¹¹
19	59.54 ⁷⁵	53.0 ²	56.62 ¹²	52.2 ⁶	35.36 ¹⁷	79.8 ¹	32.32 ¹⁹	66.7 ⁶
29	58.79 ⁷⁸	53.2 ³	56.50 ¹⁴	52.8 ⁴	35.19 ¹⁹	79.9 ¹	32.13 ²¹	67.3 ³
Aug. 8	58.01 ⁷⁷	52.9 ⁹	56.36 ¹⁵	53.2 ²	35.00 ²¹	79.8 ⁴	31.92 ²²	67.6 ²
18	57.24 ⁷⁶	52.0 ¹⁴	56.21 ¹⁴	53.4 ²	34.79 ²⁰	79.4 ⁸	31.70 ²²	67.4 ⁷
28	56.48 ⁷²	50.6 ¹⁹	56.07 ¹⁵	53.2 ⁴	34.59 ²⁰	78.6 ⁹	31.48 ²¹	66.7 ¹¹
Sept. 7	55.76 ⁶⁶	48.7 ²³	55.92 ¹³	52.8 ⁶	34.39 ¹⁸	77.7 ¹²	31.27 ²⁰	65.6 ¹⁵
17	55.10 ⁶⁰	46.4 ²⁸	55.79 ¹¹	52.2 ¹⁰	34.21 ¹⁵	76.5 ¹⁴	31.07 ¹⁷	64.1 ¹⁹
27	54.50 ⁵⁰	43.6 ³¹	55.68 ⁸	51.2 ¹³	34.06 ¹⁰	75.1 ¹⁵	30.90 ¹⁴	62.2 ²³
Okt. 7	54.00 ³⁹	40.5 ³⁵	55.60 ⁴	49.9 ¹⁵	33.96 ⁶	73.6 ¹⁵	30.76 ⁹	59.9 ²⁶
17	53.61 ²⁶	37.0 ³⁷	55.56 ⁰	48.4 ¹⁸	33.90 ¹	72.1 ¹⁵	30.67 ⁴	57.3 ²⁹
27	53.35 ¹³	33.3 ³⁸	55.56 ⁴	46.6 ²⁰	33.91 ⁷	70.6 ¹³	30.63 ¹	54.4 ³²
Nov. 6	53.22 ³	29.5 ⁴⁴	55.60 ¹¹	44.6 ²⁵	33.98 ¹⁶	69.3 ¹³	30.64 ⁷	51.2 ³⁷
16	53.25 ¹⁹	25.1 ³⁹	55.71 ¹⁵	42.1 ²⁵	34.14 ²⁰	68.0 ⁹	30.71 ¹⁴	47.5 ³⁵
26	53.44 ³⁴	21.2 ³⁷	55.86 ²⁰	39.6 ²⁵	34.34 ²⁸	67.1 ⁶	30.85 ²⁰	44.0 ³⁵
Dez. 6	53.78 ⁴⁸	17.5 ³⁵	56.06 ²⁴	37.1 ²⁷	34.62 ³²	66.5 ²	31.05 ²⁵	40.5 ³⁴
16	54.26 ⁶²	14.0 ³²	56.30 ²⁷	34.4 ²⁵	34.94 ³⁶	66.3 ¹	31.30 ²⁹	37.1 ³³
26	54.88 ⁷³	10.8 ²⁸	56.57 ³⁰	31.9 ²⁵	35.30 ⁴⁰	66.4 ⁴	31.59 ³⁴	33.8 ²⁹
36	55.61	8.0	56.87	29.4	35.70	66.8	31.93	30.9
Mittl. Ort	57.63	38.7	55.48	48.9	33.95	64.5	31.09	56.6
	550)		551)		552)		555)	

1909	γ Scorp. 3 ^m .4.		δ Bootis. 4 ^m .5.		ζ Lupi. 3 ^m .4.		γ Triang. austr. 2 ^m .9.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl.
	14 ^h 58 ^m	24° 55'	15 ^h 0 ^m	27° 17'	15 ^h 5 ^m	51° 44'	15 ^h 10 ^m	68° 20'
Jan. 0	42.41	19.4	31.03	62.8	41.66	56.1	19.90	20.1
10	42.75	20.6	31.35	60.2	42.12	56.2	20.61	19.6
20	43.10	22.1	31.68	58.0	42.59	56.8	21.34	19.6
30	43.45	23.6	32.02	56.1	43.07	57.8	22.09	20.1
Febr. 9	43.80	25.2	32.36	54.7	43.55	59.1	22.84	21.1
19	44.13	26.8	32.69	53.8	44.01	60.7	23.57	22.5
März 1	44.44	28.4	32.99	53.5	44.45	62.5	24.26	24.4
11	44.73	29.9	33.27	53.6	44.85	64.5	24.91	26.5
21	44.98	31.3	33.53	54.2	45.22	66.7	25.51	28.9
31	45.21	32.6	33.75	55.3	45.55	69.1	26.04	31.6
April 10	45.41	33.8	33.93	56.7	45.84	71.4	26.50	34.4
20	45.58	34.9	34.08	58.4	46.08	73.8	26.88	37.4
30	45.72	35.9	34.20	60.4	46.28	76.2	27.18	40.4
Mai 10	45.83	36.7	34.28	62.4	46.43	78.5	27.40	43.4
20	45.91	37.5	34.32	64.5	46.53	80.7	27.53	46.3
30	45.96	38.1	34.34	66.5	46.58	82.7	27.58	49.2
Juni 9	45.97	38.5	34.32	68.5	46.58	84.6	27.54	51.8
19	45.96	38.9	34.27	70.3	46.54	86.3	27.41	54.2
29	45.91	39.1	34.19	71.9	46.44	87.7	27.20	56.3
Juli 9	45.83	39.2	34.09	73.2	46.30	88.8	26.91	58.0
19	45.73	39.2	33.96	74.2	46.12	89.6	26.56	59.4
29	45.61	39.0	33.81	74.9	45.90	90.1	26.14	60.2
Aug. 8	45.46	38.7	33.65	75.3	45.67	90.2	25.69	60.7
18	45.31	38.3	33.48	75.3	45.42	89.9	25.21	60.7
28	45.15	37.8	33.30	74.9	45.15	89.3	24.73	60.1
Sept. 7	45.00	37.2	33.13	74.2	44.90	88.4	24.26	59.2
17	44.86	36.5	32.98	73.2	44.67	87.1	23.82	57.7
27	44.75	35.8	32.84	71.8	44.47	85.5	23.43	55.9
Okt. 7	44.67	35.1	32.74	70.0	44.32	83.8	23.14	53.8
17	44.63	34.5	32.67	67.9	44.23	82.0	22.96	51.4
27	44.53	34.0	32.64	65.5	44.21	80.1	22.88	48.9
Nov. 6	44.69	33.6	32.67	62.9	44.27	78.3	22.92	46.4
16	44.82	33.5	32.76	59.7	44.42	76.4	23.10	43.7
26	44.99	33.7	32.90	56.7	44.64	75.0	23.40	41.4
Dez. 6	45.22	34.1	33.08	53.6	44.93	73.8	23.82	39.4
16	45.48	34.7	33.32	50.6	45.28	73.0	24.33	37.8
26	45.79	35.7	33.59	47.6	45.68	72.6	24.94	36.6
36	46.12	36.8	33.90	44.9	46.12	72.6	25.62	35.9
Mittl. Ort	44.44	29.5	32.77	67.3	44.43	72.3	24.06	38.6
	556)		557)		558)		560)	

1909	♂ Bootis. 3 ^m .2.		β Librae. 2 ^m .5.		γ H. Urs. min. 5 ^m .3.		φ ¹ Lupi. 3 ^m .5.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	15 ^h 11 ^m	33° 38'	15 ^h 12 ^m	9° 2'	15 ^h 13 ^m	67° 41'	15 ^h 15 ^m	35° 55'
Jan. 0	48.23	68.0	4.56	46.3	32.96	20.6	59.31	42.3
10	48.56	65.3	4.87	48.1	33.51	17.8	59.68	43.0
20	48.90	62.9	5.19	49.8	34.12	15.5	60.06	43.9
30	49.25	61.0	5.52	51.5	34.76	13.9	60.44	45.1
Febr. 9	49.60	59.6	5.84	53.0	35.41	12.9	60.83	46.5
19	49.95	58.8	6.15	54.5	36.06	12.6	61.20	48.0
März 1	50.27	58.5	6.44	55.7	36.69	13.0	61.55	49.6
11	50.58	58.7	6.72	56.7	37.27	14.0	61.88	51.2
21	50.85	59.5	6.97	57.5	37.78	15.6	62.18	52.9
31	51.09	60.7	7.19	58.0	38.22	17.8	62.45	54.5
April 10	51.29	62.4	7.39	58.4	38.58	20.3	62.69	56.2
20	51.45	64.4	7.55	58.6	38.84	23.1	62.90	57.8
30	51.58	66.6	7.69	58.6	39.01	26.1	63.08	59.3
Mai 10	51.67	68.9	7.81	58.4	39.08	29.2	63.22	60.7
20	51.72	71.2	7.89	58.2	39.05	32.3	63.32	62.1
30	51.74	73.6	7.95	57.8	38.94	35.3	63.39	63.3
Juni 9	51.72	75.8	7.97	57.4	38.73	38.0	63.42	64.4
19	51.66	77.8	7.97	57.0	38.45	40.3	63.41	65.3
29	51.58	79.6	7.94	56.6	38.10	42.3	63.37	66.1
Juli 9	51.46	81.1	7.88	56.2	37.69	43.9	63.29	66.7
19	51.32	82.2	7.79	55.8	37.24	45.0	63.18	67.1
29	51.16	83.0	7.68	55.3	36.74	45.6	63.03	67.2
Aug. 8	50.98	83.4	7.55	55.0	36.22	45.7	62.87	67.2
18	50.78	83.5	7.42	54.6	35.69	45.2	62.69	66.9
28	50.59	83.1	7.27	54.3	35.16	44.2	62.50	66.4
Sept. 7	50.40	82.3	7.13	54.1	34.64	42.8	62.32	65.7
17	50.22	81.1	6.99	53.9	34.15	40.8	62.15	64.8
27	50.06	79.6	6.88	53.8	33.71	38.4	62.00	63.8
Okt. 7	49.93	77.6	6.79	53.9	33.33	35.5	61.89	62.7
17	49.84	75.3	6.74	54.2	33.02	32.3	61.82	61.6
27	49.79	72.7	6.73	54.6	32.80	28.8	61.80	60.5
Nov. 6	49.80	69.8	6.77	55.2	32.67	25.1	61.84	59.5
16	49.86	66.4	6.87	56.1	32.66	20.8	61.96	58.6
26	49.98	63.2	7.01	57.2	32.76	16.9	62.13	58.0
Dez. 6	50.16	59.8	7.20	58.4	32.98	13.0	62.35	57.7
16	50.39	56.6	7.44	59.9	33.30	9.3	62.63	57.7
26	50.66	53.4	7.70	61.5	33.72	5.9	62.95	57.9
36	50.97	50.5	8.01	63.2	34.23	2.8	63.31	58.5
mitt. Ort	50.04	73.9	6.50	51.6	35.40	31.7	61.66	54.4

563)

564)

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1909	γ Ursae min. 3 ^m .0.		μ Bootis. 4 ^m .I.		ι Draconis. 3 ^m .2.		β Coron. bor. 3 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	15 ^h 20 ^m	72° 9'	15 ^h 21 ^m	37° 41'	15 ^h 22 ^m	59° 16'	15 ^h 24 ^m	29° 24'
Jan. 0	49.10	16.9	1.28	38.6	52.05	54.5	2.76	63.3
10	49.73 ⁶³	14.1 ²⁸	1.60 ³²	35.7 ²⁹	52.47 ⁴²	51.6 ²⁹	3.07 ³¹	60.5 ²⁸
20	50.43 ⁷⁰	11.8 ²³	1.94 ³⁴	33.3 ²⁴	52.94 ⁴⁷	49.2 ²⁴	3.39 ³²	58.2 ²³
30	51.19 ⁷⁶	10.2 ¹⁶	2.31 ³⁷	31.3 ²⁰	53.44 ⁵⁰	47.4 ¹⁸	3.73 ³⁴	56.2 ²⁵
Febr. 9	51.98 ⁷⁹	9.2 ¹⁰	2.67 ³⁶	29.9 ¹⁴	53.94 ⁵⁰	46.2 ¹²	4.07 ³⁴	54.6 ¹⁶
19	52.76 ⁷⁸	8.9 ³	3.03 ³⁶	29.1 ⁸	53.94 ⁵¹	46.2 ⁶	4.07 ³⁴	54.6 ¹⁰
März 1	52.76 ⁷⁸	8.9 ³	3.03 ³⁶	29.1 ⁸	54.45 ⁴⁹	45.6 ¹	4.41 ³²	53.6 ⁴
11	53.52 ⁷¹	9.3 ¹⁰	3.37 ³¹	28.8 ³	54.94 ⁴⁵	45.7 ⁸	4.73 ³⁰	53.2 ¹
21	54.23 ⁶³	10.3 ¹⁶	3.68 ²⁹	29.1 ⁹	55.39 ⁴¹	46.5 ¹⁴	5.03 ²⁷	53.3 ⁵
31	54.86 ⁵⁵	11.9 ²¹	3.97 ²⁶	30.0 ¹³	55.80 ³⁶	47.9 ¹⁹	5.30 ²⁴	53.8 ¹¹
April 10	55.41 ⁴⁴	14.0 ²⁶	4.23 ²¹	31.3 ¹⁸	56.16 ³⁰	49.8 ²⁴	5.54 ²¹	54.9 ¹⁴
20	55.85 ³²	16.6 ²⁹	4.44 ¹⁸	33.1 ²¹	56.46 ²³	52.2 ²⁷	5.75 ¹⁷	56.3 ¹⁸
30	56.17 ²¹	19.5 ³⁰	4.62 ¹⁴	35.2 ²³	56.69 ¹⁶	54.9 ²⁹	5.92 ¹⁴	58.1 ²
Mai 10	56.38 ⁸	22.5 ³¹	4.76 ¹⁰	37.5 ²⁵	56.85 ⁹	57.8 ³⁰	6.06 ¹⁰	60.1 ²²
20	56.46 ⁴	25.6 ³¹	4.86 ⁶	40.0 ²⁵	56.94 ²	60.8 ³⁰	6.16 ⁷	62.3 ²³
30	56.42 ¹⁶	28.7 ³⁰	4.92 ¹	42.5 ²⁶	56.96 ⁴	63.8 ³⁰	6.23 ⁴	64.6 ²²
Juni 9	56.26 ²⁶	31.7 ²⁷	4.93 ²	45.1 ²³	56.92 ¹¹	66.8 ²⁷	6.27 ⁰	66.8 ²¹
19	56.00 ³⁶	34.4 ²⁵	4.91 ⁵	47.4 ²²	56.81 ¹⁶	69.5 ²⁵	6.27 ⁴	68.9 ²²
29	55.64 ⁴⁵	36.9 ²⁰	4.86 ¹⁰	49.6 ¹⁹	56.65 ²²	72.0 ²¹	6.23 ⁷	70.9 ¹⁸
Juli 9	55.19 ⁵²	38.9 ¹⁶	4.76 ¹²	51.5 ¹⁷	56.43 ²⁶	74.1 ¹⁸	6.16 ¹⁰	72.7 ¹⁵
19	54.67 ⁵⁹	40.5 ¹²	4.64 ¹⁵	53.2 ¹³	56.17 ³¹	75.9 ¹³	6.06 ¹²	74.2 ¹²
29	54.08 ⁶⁴	41.7 ⁶	4.49 ¹⁸	54.5 ⁹	55.86 ³⁴	77.2 ⁸	5.94 ¹⁵	75.4 ¹²
Aug. 8	53.44 ⁶⁷	42.3 ¹	4.31 ²⁰	55.4 ⁴	55.52 ³⁶	78.0 ³	5.79 ¹⁷	76.4 ⁵
18	52.77 ⁶⁹	42.4 ⁴	4.11 ²¹	55.8 ¹	55.16 ³⁸	78.3 ²	5.62 ¹⁸	76.9 ²
28	52.08 ⁶⁹	42.0 ⁹	3.90 ²²	55.9 ⁴	54.78 ³⁸	78.1 ⁷	5.44 ¹⁹	77.1 ²
Sept. 7	51.39 ⁶⁷	41.1 ¹⁴	3.68 ²¹	55.5 ⁸	54.40 ³⁷	77.4 ¹¹	5.25 ¹⁹	76.9 ⁶
17	50.72 ⁶³	39.7 ²⁰	3.47 ²⁰	54.7 ¹²	54.03 ³⁶	76.3 ¹⁷	5.06 ¹⁷	76.3 ¹²
27	50.09 ⁵⁸	37.7 ²⁴	3.27 ¹⁸	53.5 ¹⁶	53.67 ³³	74.6 ²²	4.89 ¹⁶	75.3 ¹³
Okt. 7	49.51 ⁵¹	35.3 ²⁷	3.09 ¹⁵	51.9 ²⁰	53.34 ²⁸	72.4 ²⁶	4.73 ¹³	74.0 ¹¹
17	49.00 ⁴²	32.6 ³²	2.94 ¹¹	49.9 ²⁴	53.06 ²²	69.8 ³⁰	4.60 ¹⁰	72.3 ²¹
27	48.58 ³²	29.4 ³⁵	2.83 ⁷	47.5 ²⁷	52.84 ¹⁶	66.8 ³³	4.50 ⁵	70.2 ²⁴
Nov. 6	48.26 ²⁰	25.9 ³⁷	2.76 ²	44.8 ³⁰	52.68 ⁹	63.5 ³⁶	4.45 ⁰	67.8 ²⁶
16	48.06 ⁸	22.2 ⁴²	2.74 ⁵	41.8 ³⁵	52.59 ⁰	59.9 ⁴¹	4.45 ⁶	65.2 ³²
26	47.98 ⁸	18.0 ⁴⁰	2.79 ¹¹	38.3 ³⁴	52.59 ⁸	55.8 ³⁹	4.51 ¹⁰	62.0 ³¹
Dez. 6	48.06 ²¹	14.0 ³⁸	2.90 ¹⁷	34.9 ³⁵	52.67 ¹⁸	51.9 ³⁸	4.61 ¹⁶	58.9 ³¹
16	48.27 ³⁴	10.2 ³⁷	3.07 ²¹	31.4 ³⁴	52.85 ²⁵	48.1 ³⁷	4.77 ²¹	55.8 ³²
26	48.61 ⁴⁷	6.5 ³⁵	3.28 ²⁷	28.0 ³²	53.10 ³³	44.4 ³⁵	4.98 ²⁶	52.6 ³²
36	49.08 ⁵⁷	3.0 ³⁰	3.55 ³¹	24.8 ³⁰	53.43 ³⁹	40.9 ³²	5.24 ²⁹	49.6 ²⁹
	49.65	0.0	3.86	21.8	53.82	37.7	5.53	46.7
Mittl. Ort	51.91	28.1	3.14	45.3	54.23	64.5	4.62	68.2
	(569)		(568)		(571)		(572)	

1909	α Bootis. 4 ^m .8.		γ Lupi. 2 ^m .9.		γ Librae 4 ^m .1.		α Coron. bor. 2 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	15 ^h 27 ^m	41° 8'	15 ^h 29 ^m	40° 51'	15 ^h 30 ^m	14° 29'	15 ^h 30 ^m	27° 0'
Jan. 0	37.70	27.1	1.74	28.7	23.95	5.5	48.20	69.3
10	38.03 ³³	24.2 ²⁹	2.12 ³⁸	29.0 ³	24.25 ³⁰	6.9 ¹⁴	48.50 ³⁰	66.6 ²⁷
20	38.38 ³⁵	21.7 ²⁵	2.52 ⁴⁰	29.7 ⁷	24.57 ³²	8.4 ¹⁵	48.82 ³²	64.2 ²⁴
30	38.75 ³⁷	19.7 ²⁰	2.92 ⁴⁰	30.6 ⁹	24.90 ³³	9.9 ¹⁵	49.15 ³³	62.2 ²⁰
Febr. 9	39.13 ³⁸	18.2 ¹⁵	3.33 ⁴¹	31.8 ¹²	25.23 ³³	11.4 ¹⁵	49.48 ³³	60.6 ¹⁶
19	39.50 ³⁷	17.3 ⁹	3.73 ⁴⁰	33.1 ¹³	25.55 ³²	12.8 ¹⁴	49.81 ³³	59.5 ¹¹
März 1	39.85 ³⁵	17.1 ²	4.11 ³⁸	34.6 ¹⁵	25.86 ³¹	14.0 ¹²	50.13 ²⁹	59.0 ⁵
11	40.19 ³⁴	17.4 ³	4.46 ³⁵	36.2 ¹⁶	26.15 ²⁹	15.1 ¹¹	50.42 ²⁹	59.0 ⁰
21	40.49 ³⁰	18.4 ¹⁰	4.80 ³⁴	37.9 ¹⁷	26.41 ²⁶	16.0 ⁹	50.70 ²⁸	59.4 ⁴
31	40.76 ²⁷	19.8 ¹⁴	5.10 ³⁰	39.7 ¹⁸	26.65 ²⁴	16.7 ⁷	50.94 ²⁴	60.4 ¹⁰
April 10	40.99 ¹⁹	21.6 ¹⁸	5.37 ²⁷	41.4 ¹⁷	26.87 ²²	17.3 ⁶	51.15 ²¹	61.7 ¹³
20	41.18 ¹³	23.8 ²²	5.61 ²⁴	43.2 ¹⁸	27.06 ¹⁹	17.7 ⁴	51.33 ¹⁸	63.4 ¹⁷
30	41.33 ¹⁵	26.3 ²⁵	5.81 ²⁰	44.9 ¹⁷	27.06 ¹⁶	17.7 ²	51.33 ¹⁵	63.4 ¹⁹
Mai 10	41.43 ¹⁰	28.9 ²⁶	5.81 ¹⁶	44.9 ¹⁷	27.22 ¹³	17.9 ²	51.48 ¹¹	65.3 ²⁰
20	41.49 ⁶	31.5 ²⁶	5.97 ¹³	46.6 ¹⁶	27.35 ¹¹	18.1 ⁰	51.59 ⁸	67.3 ²²
30	41.51 ²	34.1 ²⁶	6.10 ⁸	48.2 ¹⁵	27.46 ⁸	18.1 ⁰	51.67 ⁵	69.5 ²²
Juni 9	41.51 ²	34.1 ²⁵	6.18 ⁵	49.7 ¹³	27.54 ⁴	18.1 ¹	51.72 ¹	71.7 ²¹
19	41.49 ⁶	36.6 ²⁴	6.23 ⁰	51.0 ¹²	27.58 ¹	18.0 ²	51.73 ³	73.8 ¹⁹
29	41.43 ¹⁰	39.0 ²⁰	6.23 ⁴	52.2 ¹¹	27.59 ¹	17.8 ²	51.70 ⁶	75.7 ¹⁸
Juli 9	41.33 ¹⁴	41.0 ¹⁷	6.19 ⁸	53.3 ⁸	27.58 ⁶	17.6 ²	51.64 ⁸	77.5 ¹⁵
19	41.19 ¹⁶	42.7 ¹³	6.11 ¹²	54.1 ⁶	27.52 ⁸	17.4 ³	51.56 ¹²	79.0 ¹²
29	41.03 ¹⁹	44.0 ¹⁰	5.99 ¹⁴	54.7 ⁴	27.44 ¹¹	17.1 ³	51.44 ¹⁴	80.2 ¹⁰
Aug. 8	40.84 ²¹	45.0 ⁵	5.85 ¹⁸	55.1 ¹	27.33 ¹²	16.8 ³	51.30 ¹⁶	81.2 ⁶
18	40.63 ²³	45.5 ¹	5.67 ²⁰	55.2 ¹	27.21 ¹⁴	16.5 ³	51.14 ¹⁷	81.8 ²
28	40.40 ²⁴	45.6 ³	5.47 ²⁰	55.1 ⁴	27.07 ¹⁵	16.2 ³	50.97 ¹⁹	82.0 ¹
Sept. 7	39.93 ²²	44.5 ¹³	5.27 ²¹	54.7 ⁷	26.92 ¹⁵	15.9 ³	50.78 ¹⁸	81.9 ⁵
17	39.71 ²⁰	43.2 ¹⁶	5.06 ¹⁹	54.0 ⁹	26.77 ¹⁵	15.6 ³	50.60 ¹⁸	81.4 ⁹
27	39.51 ¹⁷	41.6 ²¹	4.87 ¹⁷	53.1 ¹⁰	26.62 ¹³	15.3 ²	50.42 ¹⁵	80.5 ¹²
Okt. 7	39.34 ¹³	39.5 ²⁵	4.70 ¹⁴	52.1 ¹²	26.49 ⁹	15.1 ²	50.27 ¹³	79.3 ¹⁶
17	39.21 ⁸	37.0 ²⁸	4.56 ⁹	49.6 ¹³	26.40 ⁷	14.9 ⁰	50.14 ¹⁰	77.7 ¹⁹
27	39.13 ³	34.2 ³¹	4.47 ³	48.2 ¹⁴	26.33 ²	14.9 ¹	50.04 ⁶	75.8 ²²
Nov. 6	39.10 ³	31.1 ³³	4.44 ²	47.0 ¹²	26.31 ²	15.0 ²	49.98 ¹	73.6 ²⁵
16	39.13 ³	27.8 ³⁸	4.46 ⁹	45.8 ¹²	26.33 ⁸	15.2 ⁵	49.97 ⁵	71.1 ²⁸
26	39.13 ¹⁰	24.0 ³⁸	4.55 ¹⁷	44.8 ¹⁰	26.41 ¹⁴	15.7 ⁷	50.02 ¹¹	68.3 ³²
Dez. 6	39.23 ¹⁶	20.5 ³⁵	4.72 ²²	44.8 ⁷	26.55 ¹⁸	16.4 ⁹	50.13 ¹⁵	65.1 ³¹
16	39.39 ²¹	17.0 ³⁵	4.94 ²⁸	44.1 ⁴	26.73 ²³	17.3 ¹¹	50.28 ²¹	62.0 ³¹
26	39.60 ²⁷	13.6 ³⁴	5.22 ³⁴	43.7 ¹	26.96 ²⁶	18.4 ¹³	50.49 ²⁵	58.9 ³⁰
36	39.87 ³¹	10.5 ³¹	5.56 ³⁷	43.8 ²	27.22 ²⁹	19.7 ¹⁴	50.74 ²⁸	55.9 ²⁹
36	40.18 ³¹	10.5 ³¹	5.93 ³⁷	43.8 ²	27.51 ²⁹	21.1 ¹⁴	51.02 ²⁸	53.0 ²⁹
Minl. Ort	39.62	34.3	4.30	41.1	26.02	11.5	50.08	73.7

573)

575)

577)

578)

1909	α Serpentis. 2 ^m .5.		β Serpentis. 3 ^m .4.		γ Serpentis. 4 ^m .0.		μ Serpentis. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	15 ^h 39 ^m	6° 42'	15 ^h 41 ^m	15° 42'	15 ^h 44 ^m	18° 25'	15 ^h 44 ^m	3° 9'
Jan. 0	45.13 ²⁸	41.4 ²²	57.31 ²⁸	20.1 ²⁵	36.65 ²⁹	17.0 ²⁶	50.15 ²⁸	5.6 ¹⁸
10	45.41 ³¹	39.2 ²¹	57.59 ³⁰	17.6 ²³	36.94 ³⁰	14.4 ²³	50.43 ³¹	7.4 ¹⁸
20	45.72 ³¹	37.1 ¹⁸	57.89 ³²	15.3 ²⁰	37.24 ³¹	12.1 ²⁰	50.74 ³¹	9.2 ¹⁷
30	46.03 ³¹	35.3 ¹⁶	58.21 ³¹	13.3 ¹⁶	37.55 ³²	10.1 ¹⁷	51.05 ³¹	10.9 ¹⁵
Febr. 9	46.34 ³¹	33.7 ¹³	58.52 ³²	11.7 ¹²	37.87 ³¹	8.4 ¹²	51.36 ³¹	12.4 ¹⁵
19	46.65 ³⁰	32.4 ⁹	58.84 ³⁰	10.5 ⁸	38.18 ³¹	7.2 ⁸	51.67 ³⁰	13.7 ¹¹
März 1	46.95 ²⁸	31.5 ⁶	59.14 ²⁸	9.7 ³	38.49 ²⁹	6.4 ²	51.97 ²⁹	14.8 ⁸
11	47.23 ²⁶	30.9 ¹	59.42 ²⁷	9.4 ⁰	38.78 ²⁷	6.2 ¹	52.26 ²⁶	15.6 ⁵
21	47.49 ²⁴	30.8 ¹	59.69 ²⁴	9.4 ⁵	39.05 ²⁴	6.3 ⁶	52.52 ²⁴	16.1 ²
31	47.73 ²¹	30.9 ⁵	59.93 ²²	9.9 ⁸	39.29 ²²	6.9 ¹⁰	52.76 ²²	16.3 ⁰
April 10	47.94 ¹⁸	31.4 ⁷	60.15 ¹⁸	10.7 ¹²	39.51 ¹⁹	7.9 ¹²	52.98 ²⁰	16.3 ³
20	48.12 ¹⁶	32.1 ⁹	60.33 ¹⁶	11.9 ¹⁴	39.70 ¹⁶	9.1 ¹⁵	53.18 ¹⁶	16.0 ⁴
30	48.28 ¹³	33.0 ¹¹	60.49 ¹³	13.3 ¹⁵	39.86 ¹³	10.6 ¹⁸	53.34 ¹⁴	15.6 ⁵
Mai 10	48.41 ¹⁰	34.1 ¹²	60.62 ¹⁰	14.8 ¹⁷	39.99 ¹⁰	12.4 ¹⁷	53.48 ¹¹	15.1 ⁷
20	48.51 ⁷	35.3 ¹³	60.72 ⁶	16.5 ¹⁷	40.09 ⁶	14.1 ¹⁹	53.59 ⁹	14.4 ⁷
30	48.58 ⁵	36.6 ¹²	60.78 ³	18.2 ¹⁷	40.15 ³	16.0 ¹⁸	53.68 ⁵	13.7 ⁸
Juni 9	48.63 ⁰	37.8 ¹²	60.81 ⁰	19.9 ¹⁶	40.18 ⁰	17.8 ¹⁷	53.73 ²	12.9 ⁸
19	48.63 ²	39.0 ¹²	60.81 ³	21.5 ¹⁵	40.18 ³	19.5 ¹⁶	53.75 ¹	12.1 ⁷
29	48.61 ⁵	40.2 ¹⁰	60.78 ⁶	23.0 ¹³	40.15 ⁶	21.1 ¹⁴	53.74 ⁵	11.4 ⁷
Juli 9	48.56 ⁸	41.2 ⁹	60.72 ⁹	24.3 ¹¹	40.09 ¹⁰	22.5 ¹²	53.69 ⁷	10.7 ⁶
19	48.48 ¹⁰	42.1 ⁷	60.63 ¹¹	25.4 ⁹	39.99 ¹²	23.7 ⁹	53.62 ¹⁰	10.1 ⁵
29	48.38 ¹³	42.8 ⁶	60.52 ¹⁴	26.3 ⁶	39.87 ¹⁴	24.6 ⁷	53.52 ¹²	9.6 ⁴
Aug. 8	48.25 ¹⁴	43.4 ³	60.38 ¹⁵	26.9 ⁴	39.73 ¹⁶	25.3 ³	53.40 ¹⁴	9.2 ⁴
18	48.11 ¹⁶	43.7 ²	60.23 ¹⁷	27.3 ¹	39.57 ¹⁶	25.6 ¹	53.26 ¹⁵	8.8 ⁴
28	47.95 ¹⁵	43.9 ⁰	60.06 ¹⁶	27.4 ²	39.41 ¹⁷	25.7 ²	53.11 ¹⁵	8.6 ³
Sept. 7	47.80 ¹⁵	43.9 ³	59.90 ¹⁶	27.2 ⁵	39.24 ¹⁷	25.5 ⁵	52.96 ¹⁵	8.4 ⁰
17	47.65 ¹⁴	43.6 ⁵	59.74 ¹⁵	26.7 ⁸	39.07 ¹⁵	25.0 ⁹	52.81 ¹³	8.4 ²
27	47.51 ¹¹	43.1 ⁸	59.59 ¹²	25.9 ¹¹	38.92 ¹³	24.1 ¹²	52.68 ¹¹	8.6 ³
Okt. 7	47.40 ⁸	42.3 ⁹	59.47 ⁹	24.8 ¹⁴	38.79 ⁹	22.9 ¹⁵	52.57 ⁸	8.9 ⁶
17	47.32 ⁴	41.4 ¹³	59.38 ⁵	23.4 ¹⁶	38.70 ⁶	21.4 ¹⁸	52.49 ⁴	9.5 ⁷
27	47.28 ¹	40.1 ¹⁵	59.33 ¹	21.8 ²⁰	38.64 ¹	19.6 ²⁰	52.45 ¹	10.2 ⁹
Nov. 6	47.29 ⁵	38.6 ¹⁷	59.32 ⁵	19.8 ²²	38.63 ⁴	17.6 ²⁴	52.46 ⁵	11.1 ¹¹
16	47.34 ¹¹	36.9 ²¹	59.37 ¹⁰	17.6 ²⁶	38.67 ¹⁰	15.2 ²⁷	52.51 ¹²	12.2 ¹⁴
26	47.45 ¹⁶	34.8 ²⁰	59.47 ¹⁵	15.0 ²⁶	38.77 ¹⁴	12.5 ²⁷	52.63 ¹⁶	13.6 ¹⁶
Dez. 6	47.61 ²⁰	32.8 ²²	59.62 ²⁰	12.4 ²⁶	38.91 ¹⁹	9.8 ²⁸	52.79 ²⁰	15.2 ¹⁶
16	47.81 ²⁴	30.6 ²³	59.82 ²⁴	9.8 ²⁶	39.10 ²³	7.0 ²⁷	52.99 ²⁴	16.8 ¹⁸
26	48.05 ²⁷	28.3 ²²	60.06 ²⁶	7.2 ²⁶	39.33 ²⁷	4.3 ²⁶	53.23 ²⁷	18.6 ¹⁹
36	48.32	26.1	60.32	4.6	39.60	1.7	53.50	20.5
Mittl. Ort	47.08	41.0	59.23	21.8	38.59	19.4	52.18	8.3
	582)		583)		584)		585)	

SCHEINBARE STERNÖRTER.

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1909	ε Serpentin. 3 ^m .5.		β Triang. austr. 2 ^m .9.		ζ Ursae min. 4 ^m .3.		ε Coron.bor. 4 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	15 ^h 46 ^m	4° 44'	15 ^h 47 ^m	63° 8'	15 ^h 47 ^m	78° 4'	15 ^h 53 ^m	27° 8'
Jan. 0	14.74	64.6	2.97	46.8	13.20	18.9	47.19	23.0
10	15.02	62.5	3.53	46.0	13.97	15.9	47.47	20.1
20	15.32	60.5	4.13	45.7	14.89	13.4	47.78	17.6
30	15.63	58.7	4.75	45.8	15.91	11.6	48.10	15.5
Febr. 9	15.94	57.1	5.38	46.4	17.01	10.3	48.43	13.8
19	16.25	55.8	6.01	47.3	18.12	9.7	48.76	12.6
März 1	16.55	54.8	6.62	48.7	19.23	9.8	49.08	11.9
11	16.83	54.3	7.20	50.3	20.29	10.6	49.38	11.8
21	17.10	54.0	7.75	52.2	21.26	12.0	49.67	12.1
31	17.34	54.1	8.26	54.3	22.11	13.8	49.93	13.0
April 10	17.55	54.4	8.71	56.7	22.82	16.2	50.16	14.2
20	17.74	55.1	9.11	59.2	23.37	19.0	50.36	15.9
30	17.91	55.9	9.45	61.8	23.74	21.9	50.53	17.8
Mai 10	18.05	56.9	9.72	64.5	23.93	25.0	50.66	19.9
20	18.16	58.0	9.93	67.1	23.94	28.2	50.76	22.1
30	18.24	59.2	10.06	69.7	23.76	31.2	50.83	24.3
Juni 9	18.28	60.4	10.12	72.2	23.42	34.1	50.86	26.5
19	18.30	61.5	10.11	74.5	22.91	36.7	50.86	28.6
29	18.28	62.6	10.01	76.7	22.25	38.9	50.82	30.5
Juli 9	18.23	63.6	9.85	78.5	21.46	40.8	50.74	32.2
19	18.16	64.4	9.63	80.0	20.57	42.2	50.63	33.6
29	18.05	65.1	9.35	81.2	19.59	43.2	50.50	34.7
Aug. 8	17.93	65.7	9.02	82.0	18.56	43.6	50.34	35.5
18	17.79	66.1	8.65	82.3	17.48	43.5	50.16	35.9
28	17.64	66.3	8.25	82.2	16.39	42.9	49.97	36.0
Sept. 7	17.48	66.3	7.87	81.7	15.30	41.8	49.78	35.7
17	17.33	66.1	7.50	80.7	14.26	40.2	49.59	35.0
27	17.20	65.7	7.16	79.3	13.28	38.1	49.42	33.9
Okt. 7	17.08	65.0	6.88	77.6	12.39	35.6	49.27	32.5
17	17.00	64.1	6.67	75.6	11.61	32.6	49.15	30.7
27	16.96	63.0	6.54	73.4	10.98	29.3	49.07	28.5
Nov. 6	16.95	61.6	6.51	71.2	10.50	25.8	49.04	26.1
16	17.00	60.1	6.58	68.9	10.21	22.1	49.06	23.4
26	17.11	58.1	6.77	66.5	10.11	17.8	49.14	20.2
Dez. 6	17.26	56.1	7.05	64.6	10.23	14.0	49.27	17.2
16	17.46	54.1	7.44	62.9	10.56	10.3	49.45	14.1
26	17.69	51.9	7.91	61.5	11.08	6.8	49.67	11.1
36	17.96	49.7	8.44	60.6	11.77	3.6	49.93	8.2
Mittl. Ort	16.72	63.9	6.96	61.8	17.25	29.3	49.16	27.2

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590)

593)

1909	♁ Scorpii. 2 ^m .3.		♂ Scorpil. 2 ^m .6.		♃ Draconis. 3 ^m .8.		♄ Ophiuchi. 2 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	15 ^h 54 ^m	22° 21'	16 ^h 0 ^m	19° 33'	16 ^h 0 ^m	58° 48'	16 ^h 9 ^m	3° 27'
Jan. 0	54.72 ³⁰	41.3 ¹⁰	6.33 ²⁹	19.3 ¹⁰	8.56 ³⁶	20.2 ³¹	32.40 ²⁶	36.3 ¹⁷
10	55.02 ³³	42.3 ¹¹	6.62 ³²	20.3 ¹²	8.92 ⁴²	17.1 ²⁸	32.66 ²⁹	38.0 ¹⁷
20	55.35 ³⁴	43.4 ¹¹	6.94 ³³	21.5 ¹²	9.34 ⁴⁶	14.3 ²²	32.95 ³¹	39.7 ¹⁶
30	55.69 ³⁴	44.5 ¹³	7.27 ³³	22.7 ¹²	9.80 ⁴⁸	12.1 ¹⁷	33.26 ³¹	41.3 ¹⁵
Febr. 9	56.03 ³³	45.8 ¹²	7.60 ³³	23.9 ¹²	10.28 ⁵⁰	10.4 ¹⁰	33.57 ³¹	42.8 ¹²
19	56.36 ³³	47.0 ¹²	7.93 ³²	25.1 ¹¹	10.78 ⁴⁸	9.4 ³	33.88 ³¹	44.0 ¹²
März 1	56.69 ³¹	48.2 ¹¹	8.25 ³¹	26.2 ¹¹	11.26 ⁴⁷	9.1 ⁴	34.19 ²⁹	45.0 ⁸
11	57.00 ²⁹	49.3 ¹⁰	8.56 ²⁹	27.3 ⁹	11.73 ⁴⁴	9.5 ¹⁰	34.48 ²⁷	45.8 ⁴
21	57.29 ²⁷	50.3 ⁹	8.85 ²⁷	28.2 ⁸	12.17 ³⁹	10.5 ¹⁶	34.75 ²⁶	46.2 ²
31	57.56 ²⁵	51.2 ⁸	9.12 ²⁴	29.0 ⁶	12.56 ³⁴	12.1 ²¹	35.01 ²⁴	46.4 ⁰
April 10	57.81 ²²	52.0 ⁷	9.36 ²³	29.6 ⁶	12.90 ²⁹	14.2 ²⁵	35.25 ²¹	46.4 ³
20	58.03 ¹⁹	52.7 ⁵	9.59 ¹⁹	30.2 ⁴	13.19 ²²	16.7 ²⁸	35.46 ¹⁹	46.1 ⁴
30	58.22 ¹⁷	53.2 ⁵	9.78 ¹⁷	30.6 ⁴	13.41 ¹⁵	19.5 ³⁰	35.65 ¹⁶	45.7 ⁶
Mai 10	58.39 ¹³	53.7 ⁵	9.95 ¹⁴	31.0 ²	13.56 ⁹	22.5 ³¹	35.81 ¹⁴	45.1 ⁷
20	58.52 ¹¹	54.2 ⁴	10.09 ¹¹	31.2 ²	13.65 ²	25.6 ³¹	35.95 ¹⁰	44.4 ⁸
30	58.63 ⁷	54.6 ³	10.20 ⁷	31.4 ¹	13.67 ⁵	28.7 ³⁰	36.05 ⁸	43.6 ⁸
Juni 9	58.70 ³	54.9 ³	10.27 ⁴	31.5 ¹	13.62 ¹¹	31.7 ²⁷	36.13 ⁴	42.8 ⁸
19	58.73 ⁰	55.2 ²	10.31 ⁰	31.6 ¹	13.51 ¹⁷	34.4 ²⁶	36.17 ⁰	42.0 ⁸
29	58.73 ³	55.4 ¹	10.31 ³	31.7 ⁰	13.34 ²³	37.0 ²¹	36.17 ²	41.2 ⁷
Juli 9	58.70 ⁷	55.5 ⁰	10.28 ⁶	31.7 ⁰	13.11 ²⁷	39.1 ¹⁸	36.15 ⁶	40.5 ⁶
19	58.63 ¹⁰	55.5 ⁰	10.22 ¹⁰	31.7 ¹	12.84 ³²	40.9 ¹³	36.09 ⁹	39.9 ⁶
29	58.53 ¹²	55.5 ¹	10.12 ¹²	31.6 ¹	12.52 ³⁵	42.2 ⁸	36.00 ¹¹	39.3 ⁴
Aug. 8	58.41 ¹⁵	55.4 ¹	10.00 ¹⁴	31.5 ²	12.17 ³⁸	43.0 ⁴	35.89 ¹⁴	38.9 ⁴
18	58.26 ¹⁶	55.3 ³	9.86 ¹⁶	31.3 ²	11.79 ⁴⁰	43.4 ²	35.75 ¹⁵	38.5 ²
28	58.10 ¹⁷	55.0 ³	9.70 ¹⁶	31.1 ³	11.39 ³⁹	43.2 ⁷	35.60 ¹⁶	38.3 ¹
Sept. 7	57.93 ¹⁶	54.7 ⁴	9.54 ¹⁶	30.8 ³	11.00 ³⁹	42.5 ¹²	35.44 ¹⁵	38.2 ⁰
17	57.77 ¹⁵	54.3 ⁴	9.38 ¹⁵	30.5 ⁴	10.61 ³⁷	41.3 ¹⁷	35.29 ¹⁵	38.2 ¹
27	57.62 ¹²	53.9 ⁴	9.23 ¹²	30.1 ²	10.24 ³³	39.6 ²²	35.14 ¹²	38.3 ³
Okt. 7	57.50 ⁹	53.5 ⁴	9.11 ⁹	29.9 ³	9.91 ²⁸	37.4 ²⁶	35.02 ¹⁰	38.6 ⁵
17	57.41 ⁴	53.1 ³	9.02 ⁵	29.6 ²	9.63 ²²	34.8 ³⁰	34.92 ⁶	39.1 ⁶
27	57.37 ⁰	52.8 ³	8.97 ⁰	29.4 ⁰	9.41 ¹⁶	31.8 ³³	34.86 ²	39.7 ⁹
Nov. 6	57.37 ⁵	52.5 ⁰	8.97 ⁴	29.4 ¹	9.25 ⁸	28.5 ³⁶	34.84 ³	40.6 ¹⁰
16	57.42 ¹²	52.5 ¹	9.01 ¹²	29.5 ²	9.17 ⁰	24.9 ⁴¹	34.87 ⁸	41.6 ¹⁵
26	57.54 ¹⁷	52.6 ³	9.13 ¹⁶	29.7 ⁵	9.17 ¹⁰	20.8 ³⁸	34.95 ¹⁴	42.9 ¹⁶
Dez. 6	57.71 ²¹	52.9 ⁵	9.29 ²⁰	30.2 ⁷	9.27 ¹⁸	17.0 ³⁸	35.09 ¹⁹	44.5 ¹⁶
16	57.92 ²⁶	53.4 ⁸	9.49 ²⁵	30.9 ⁸	9.45 ²⁶	13.2 ³⁷	35.28 ²²	46.1 ¹⁶
26	58.18 ²⁹	54.2 ⁹	9.74 ²⁸	31.7 ¹⁰	9.71 ³⁴	9.5 ³⁴	35.50 ²⁶	47.7 ¹⁸
36	58.47	55.1	10.02	32.7	10.05	6.1	35.76	49.5
Mittl. Ort	57.01	48.2	8.60	25.3	10.96	29.1	34.52	38.3
	(594)		(597)		(598)		(603)	

1909	γ ² Normae. 4 ^m .2.		19 Ursae min. 5 ^m .8.		ε Ophiuchi. 3 ^m .2.		τ Herculis. 3 ^m .6.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	16 ^h 12 ^m	49° 55'	16 ^h 13 ^m	76° 6'	16 ^h 13 ^m	4° 28'	16 ^h 16 ^m	46° 31'
Jan. 0	58.32	47.6	20.38	15.8	28.14	14.6	58.09	39.9
10	58.71	47.1	20.98	12.6	28.41	16.3	58.38	36.7
20	59.14	46.9	21.71	9.9	28.70	18.0	58.71	33.8
30	59.59	47.1	22.54	7.7	29.01	19.5	59.07	31.4
Febr. 9	60.05	47.6	23.46	6.1	29.32	20.9	59.45	29.5
19	60.51	48.3	24.42	5.1	29.63	22.2	59.84	28.3
März 1	60.97	49.3	25.38	4.8	29.93	23.2	60.23	27.6
11	61.41	50.5	26.32	5.2	30.23	23.9	60.60	27.6
21	61.83	51.9	27.21	6.3	30.50	24.4	60.96	28.2
31	62.22	53.5	28.01	7.9	30.77	24.6	61.29	29.4
April 10	62.59	55.2	28.70	10.0	31.01	24.6	61.58	31.2
20	62.92	56.9	29.26	12.6	31.22	24.3	61.84	33.3
30	63.21	58.8	29.68	15.5	31.42	23.9	62.05	35.8
Mai 10	63.46	60.7	29.95	18.5	31.58	23.3	62.21	38.6
20	63.66	62.6	30.06	21.7	31.72	22.7	62.33	41.4
30	63.82	64.5	30.01	24.8	31.83	22.0	62.40	44.3
Juni 9	63.92	66.4	29.81	27.9	31.91	21.2	62.42	47.2
19	63.97	68.1	29.47	30.7	31.96	20.5	62.39	50.0
29	63.97	69.7	28.99	33.2	31.97	19.7	62.31	52.5
Juli 9	63.91	71.2	28.39	35.4	31.94	19.1	62.19	54.7
19	63.81	72.4	27.68	37.2	31.89	18.5	62.03	56.6
29	63.66	73.4	26.89	38.6	31.80	17.9	61.82	58.1
Aug. 8	63.46	74.0	26.02	39.4	31.69	17.5	61.59	59.1
18	63.23	74.4	25.10	39.7	31.55	17.1	61.33	59.7
28	62.98	74.4	24.15	39.5	31.41	16.9	61.06	59.9
Sept. 7	62.72	74.2	23.20	38.8	31.25	16.7	60.77	59.6
17	62.46	73.5	22.26	37.6	31.09	16.7	60.49	58.8
27	62.22	72.6	21.37	35.9	30.94	16.8	60.22	57.5
Okt. 7	62.01	71.4	20.54	33.7	30.82	17.1	59.98	55.7
17	61.85	70.0	19.79	31.1	30.72	17.5	59.77	53.5
27	61.75	68.5	19.16	28.1	30.65	18.1	59.61	50.9
Nov. 6	61.71	66.8	18.65	24.8	30.63	18.8	59.49	48.0
16	61.74	65.2	18.31	21.2	30.66	19.8	59.44	44.8
26	61.85	63.6	18.13	17.4	30.74	21.0	59.45	41.3
Dez. 6	62.05	62.1	18.12	13.2	30.88	22.5	59.54	37.3
16	62.31	60.9	18.31	9.4	31.06	24.0	59.69	33.6
26	62.63	59.9	18.67	5.8	31.28	25.6	59.90	30.1
36	63.01	59.3	19.21	2.4	31.53	27.3	60.16	26.7
Mitt. Ort	61.52	58.5	24.33	25.2	30.30	16.7	60.29	46.9

604)

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608)

1909	γ Herculis. 3 ^m .5.		γ Apodis. 3 ^m .9.		η Draconis. 2 ^m .7.		α Scorpii. 1 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	16 ^h 17 ^m	19° 21'	16 ^h 19 ^m	78° 41'	16 ^h 22 ^m	61° 42'	16 ^h 23 ^m	26° 13'
Jan. 0	52.25 ²⁶	56.0 ²⁶	19.23	25.1 ¹⁷	42.73	63.9 ³⁴	47.04 ²⁹	44.5 ⁶
10	52.51 ²⁸	53.4 ²⁴	20.30 ¹⁰⁷	23.4 ¹²	43.07 ⁴¹	60.5 ²⁹	47.33 ³²	45.1 ⁸
20	52.79 ³⁰	51.0 ²¹	21.50 ¹²⁹	22.2 ⁸	43.48 ⁴⁷	57.6 ²⁵	47.65 ³³	45.9 ⁸
30	53.09 ³¹	48.9 ¹⁸	22.79 ¹³⁵	21.4 ³	43.95 ⁵⁰	55.1 ¹⁸	47.98 ³⁵	46.7 ⁹
Febr. 9	53.40 ³¹	47.1 ¹³	24.14 ¹³⁹	21.1 ²	44.45 ⁵²	53.3 ¹³	48.33 ³⁴	47.6 ¹⁰
19	53.71 ³¹	45.8 ⁹	25.53 ¹³⁷	21.3 ⁷	44.97 ⁵³	52.0 ⁵	48.67 ³⁴	48.6 ¹⁰
März 1	54.02 ³⁰	44.9 ⁴	26.90 ¹³⁵	22.0 ¹¹	45.50 ⁵¹	51.5 ¹	49.01 ³³	49.6 ⁹
11	54.32 ²⁹	44.5 ¹	28.25 ¹²⁹	23.1 ¹⁵	46.01 ⁴⁹	51.6 ⁸	49.34 ³²	50.5 ⁹
21	54.61 ²⁶	44.6 ⁵	29.54 ¹²¹	24.6 ²⁰	46.50 ⁴⁵	52.4 ¹⁴	49.66 ³⁰	51.4 ⁸
31	54.87 ²⁴	45.1 ⁹	30.75 ¹¹¹	26.6 ²²	46.95 ⁴⁰	53.8 ¹⁹	49.96 ²⁸	52.2 ⁸
April 10	55.11 ²²	46.0 ¹³	31.86 ⁹⁹	28.8 ²⁵	47.35 ³⁴	55.7 ²⁴	50.24 ²⁵	53.0 ⁷
20	55.33 ¹⁹	47.3 ¹⁶	32.85 ⁸⁶	31.3 ²⁸	47.69 ²⁷	58.1 ²⁷	50.49 ²³	53.7 ⁷
30	55.52 ¹⁶	48.9 ¹⁷	33.71 ⁷¹	34.1 ²⁹	47.96 ²⁰	60.8 ³⁰	50.72 ²⁰	54.4 ⁶
Mai 10	55.68 ¹³	50.6 ¹⁹	34.42 ⁵⁴	37.0 ³¹	48.16 ¹³	63.8 ³²	50.92 ¹⁷	55.0 ⁶
20	55.81 ¹⁰	52.5 ²⁰	34.96 ³⁷	40.1 ³¹	48.29 ⁵	67.0 ³¹	51.09 ¹⁴	55.6 ⁵
30	55.91 ⁶	54.5 ²⁰	35.33 ¹⁹	43.2 ³¹	48.34 ²	70.1 ³¹	51.23 ¹⁰	56.1 ⁵
Juni 9	55.97 ³	56.5 ¹⁹	35.52 ¹	46.3 ³⁰	48.32 ¹⁰	73.2 ³⁰	51.33 ⁷	56.6 ⁴
19	56.00 ¹	58.4 ¹⁸	35.53 ¹⁸	49.3 ²⁸	48.22 ¹⁶	76.2 ²⁷	51.40 ²	57.0 ⁴
29	55.99 ⁵	60.2 ¹⁶	35.35 ³⁵	52.1 ²⁶	48.06 ²³	78.9 ²³	51.42 ¹	57.4 ⁴
Juli 9	55.94 ⁸	61.8 ¹⁴	35.00 ⁵¹	54.7 ²³	47.83 ²⁹	81.2 ²⁰	51.41 ⁵	57.8 ²
19	55.86 ¹⁰	63.2 ¹¹	34.49 ⁶⁶	57.0 ¹⁹	47.54 ³⁴	83.2 ¹⁶	51.36 ⁹	58.0 ²
29	55.76 ¹⁴	64.3 ⁹	33.83 ⁷⁹	58.9 ¹⁵	47.20 ³⁹	84.8 ¹¹	51.27 ¹²	58.2 ¹
Aug. 8	55.62 ¹⁶	65.2 ⁶	33.04 ⁸⁹	60.4 ⁹	46.81 ⁴²	85.9 ⁶	51.15 ¹⁵	58.3 ⁰
18	55.46 ¹⁷	65.8 ³	32.15 ⁹⁵	61.3 ⁵	46.39 ⁴⁴	86.5 ¹	51.00 ¹⁶	58.3 ¹
28	55.29 ¹⁸	66.1 ¹	31.20 ⁹⁸	61.8 ¹	45.95 ⁴⁵	86.6 ⁴	50.84 ¹⁸	58.2 ²
Sept. 7	55.11 ¹⁸	66.0 ³	30.22 ⁹⁶	61.7 ⁶	45.50 ⁴⁵	86.2 ⁹	50.66 ¹⁷	58.0 ³
17	54.93 ¹⁷	65.7 ⁷	29.26 ⁹⁰	61.1 ¹²	45.05 ⁴³	85.3 ¹⁵	50.49 ¹⁷	57.7 ⁴
27	54.76 ¹⁵	65.0 ¹¹	28.36 ⁸¹	59.9 ¹⁶	44.62 ³⁹	83.8 ¹⁹	50.32 ¹⁵	57.3 ⁴
Okt. 7	54.61 ¹²	63.9 ¹³	27.55 ⁶⁷	58.3 ²¹	44.23 ³⁵	81.9 ²⁴	50.17 ¹¹	56.9 ⁵
17	54.49 ⁹	62.6 ¹⁷	26.88 ⁴⁹	56.2 ²⁴	43.88 ³⁰	79.5 ²⁸	50.06 ⁷	56.4 ⁵
27	54.40 ⁵	60.9 ²⁰	26.39 ³⁰	53.8 ²⁶	43.58 ²³	76.7 ³²	49.99 ³	55.9 ⁴
Nov. 6	54.35 ¹	58.9 ²²	26.09 ⁸	51.2 ²⁸	43.35 ¹⁴	73.5 ³⁵	49.96 ²	55.5 ³
16	54.36 ⁵	56.7 ²⁵	26.01 ¹⁶	48.4 ²⁹	43.21 ⁵	70.0 ³⁶	49.98 ⁸	55.2 ²
26	54.41 ¹¹	54.2 ²⁹	26.17 ⁴⁴	45.5 ³⁰	43.16 ⁵	66.4 ⁴²	50.06 ¹⁵	55.0 ⁰
Dez. 6	54.52 ¹⁶	51.3 ²⁷	26.61 ⁶¹	42.5 ²⁵	43.21 ¹³	62.2 ³⁹	50.21 ²⁰	55.0 ²
16	54.68 ²⁰	48.6 ²⁷	27.22 ⁸²	40.0 ²³	43.34 ²²	58.3 ³⁷	50.41 ²⁴	55.2 ³
26	54.88 ²⁴	45.9 ²⁷	28.04 ¹⁰¹	37.7 ²⁰	43.56 ³¹	54.6 ³⁴	50.65 ²⁸	55.5 ⁵
36	55.12	43.2	29.05	35.7	43.87	51.2	50.93	56.0
Mill. Ort	54.30	58.7	27.89	38.6	45.36	72.1	49.52	50.6
	(609)		(611)		(615)		(616)	

1909	β Herculis. 2 ^m .6.		A Draconis. 5 ^m .0.		σ Herculis. 4 ^m .1.		ζ Ophiuchi. 2 ^m .6.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	16 ^h 26 ^m	21° 40'	16 ^h 28 ^m	68° 57'	16 ^h 31 ^m	42° 37'	16 ^h 32 ^m	10° 22'
Jan. 0	16.36	71.3	6.22	45.7	7.93	21.3	6.52	57.6
10	16.61 ²⁵	68.6 ²⁷	6.62 ⁴⁰	42.3 ³⁴	8.20 ²⁷	18.1 ³²	6.78 ²⁶	59.0 ¹⁴
20	16.89 ²⁸	66.2 ²⁴	7.12 ⁵⁰	39.4 ²⁹	8.50 ³⁰	15.2 ²⁹	7.07 ²⁹	60.3 ¹³
30	17.18 ²⁹	64.0 ²²	7.57 ⁵⁷	36.9 ²⁵	8.50 ³⁴	12.7 ²⁵	7.37 ³⁰	61.7 ¹⁴
Febr. 9	17.49 ³¹	62.2 ¹⁸	8.32 ⁶³	35.1 ¹⁸	8.84 ³⁶	10.7 ²⁰	7.68 ³¹	62.9 ¹²
19	17.81 ³²	60.8 ¹⁴	8.32 ⁶⁵	35.1 ¹³	9.20 ³⁶	10.7 ¹⁴	7.68 ³²	62.9 ¹¹
März 1	17.81 ³¹	60.8 ⁹	8.97 ⁶⁷	33.8 ⁵	9.56 ³⁷	9.3 ⁸	8.00 ³¹	64.0 ¹⁰
11	18.12 ³¹	59.9 ⁴	9.64 ⁶⁶	33.3 ¹	9.93 ³⁶	8.5 ²	8.31 ³⁰	65.0 ⁷
21	18.43 ²⁹	59.5 ¹	10.30 ⁶²	33.4 ⁸	10.29 ³⁴	8.3 ⁵	8.61 ²⁹	65.7 ⁶
31	18.72 ²⁷	59.6 ⁵	10.92 ⁵⁸	34.2 ¹⁴	10.63 ³²	8.8 ¹⁰	8.90 ²⁷	66.3 ³
April 10	18.99 ²⁵	60.1 ¹⁰	11.50 ⁵¹	35.6 ²⁰	10.95 ³⁰	9.8 ¹⁵	9.17 ²⁶	66.6 ¹
20	19.24 ²²	61.1 ¹⁴	12.01 ⁴³	37.6 ²⁴	11.25 ²⁵	11.3 ²⁰	9.43 ²⁴	66.7 ⁰
30	19.46 ²⁰	62.5 ¹⁶	12.44 ³⁴	40.0 ²⁸	11.50 ²²	13.3 ²⁴	9.67 ²¹	66.7 ²
Mai 10	19.66 ¹⁶	64.1 ¹⁹	12.78 ²⁵	42.8 ³⁰	11.72 ¹⁸	15.7 ²⁶	9.88 ¹⁹	66.5 ³
20	19.82 ¹⁴	66.0 ²⁰	13.03 ¹⁴	45.8 ³²	11.90 ¹⁴	18.3 ²⁸	10.07 ¹⁶	66.2 ⁴
30	19.96 ¹⁰	68.0 ²¹	13.17 ⁴	49.0 ³²	12.04 ⁹	21.1 ²⁸	10.23 ¹³	65.8 ⁴
Juni 9	20.06 ⁷	70.1 ²¹	13.21 ⁶	52.2 ³¹	12.13 ⁵	23.9 ²⁸	10.36 ¹⁰	65.4 ⁵
19	20.13 ³	72.2 ²¹	13.15 ¹⁵	55.3 ³⁰	12.18 ¹	26.7 ²⁸	10.46 ⁶	64.9 ⁵
29	20.16 ¹	74.3 ¹⁹	13.00 ²⁵	58.3 ²⁷	12.17 ⁵	29.5 ²⁵	10.52 ³	64.4 ⁴
Juli 9	20.15 ⁴	76.2 ¹⁷	12.75 ³⁴	61.0 ²⁴	12.12 ⁹	32.0 ²³	10.55 ⁰	64.0 ⁴
19	20.11 ⁷	77.9 ¹⁵	12.41 ⁴²	63.4 ²⁰	12.03 ¹³	34.3 ¹⁹	10.55 ⁵	63.6 ⁴
29	20.04 ¹¹	79.4 ¹²	11.99 ⁴⁸	65.4 ¹⁶	11.90 ¹⁸	36.2 ¹⁶	10.50 ⁷	63.2 ⁴
Aug. 8	19.93 ¹⁴	80.6 ¹⁰	11.51 ⁵⁴	67.0 ¹²	11.72 ²⁰	37.8 ¹³	10.43 ¹¹	62.8 ³
18	19.79 ¹⁶	81.6 ⁷	10.97 ⁵⁸	68.2 ⁶	11.52 ²³	39.1 ⁸	10.32 ¹³	62.5 ²
28	19.63 ¹⁷	82.3 ³	10.39 ⁶¹	68.8 ¹	11.29 ²⁶	39.9 ³	10.19 ¹⁵	62.3 ²
Sept. 7	19.46 ¹⁹	82.6 ⁰	9.78 ⁶²	68.9 ⁴	11.03 ²⁶	40.2 ¹	10.04 ¹⁵	62.1 ²
17	19.27 ¹⁸	82.6 ⁴	9.16 ⁶²	68.5 ⁹	10.77 ²⁶	40.1 ⁶	9.89 ¹⁷	61.9 ¹
27	19.09 ¹⁸	82.2 ⁷	8.54 ⁵⁹	67.6 ¹⁴	10.51 ²⁵	39.5 ¹¹	9.72 ¹⁵	61.8 ⁰
Okt. 7	18.91 ¹⁶	81.5 ¹⁰	7.95 ⁵⁶	66.2 ²⁰	10.26 ²⁴	38.4 ¹⁵	9.57 ¹⁴	61.8 ⁰
17	18.75 ¹⁴	80.5 ¹⁴	7.39 ⁵⁰	64.2 ²⁴	10.02 ²⁰	36.9 ²⁰	9.43 ¹¹	61.8 ²
27	18.61 ¹⁰	79.1 ¹⁷	6.89 ⁴³	61.8 ²⁸	9.82 ¹⁶	34.9 ²³	9.32 ⁸	62.0 ³
Nov. 6	18.51 ⁶	77.4 ²¹	6.46 ³⁴	59.0 ³²	9.66 ¹²	32.6 ²⁷	9.24 ³	62.3 ⁴
16	18.45 ¹	75.3 ²³	6.12 ²⁴	55.8 ³⁵	9.54 ⁶	29.9 ³¹	9.21 ¹	62.7 ⁶
26	18.44 ⁴	73.0 ²⁵	5.88 ¹³	52.3 ³⁷	9.48 ⁰	26.8 ³⁴	9.22 ⁷	63.3 ⁸
Dez. 6	18.48 ¹¹	70.5 ³⁰	5.75 ¹	48.6 ⁴²	9.48 ⁸	23.4 ³⁸	9.29 ¹²	64.1 ¹⁰
16	18.59 ¹⁴	67.5 ²⁸	5.74 ¹³	44.4 ³⁸	9.56 ¹³	19.6 ³⁵	9.41 ¹⁷	65.1 ¹¹
26	18.73 ²⁰	64.7 ²⁹	5.87 ²⁴	40.6 ³⁸	9.69 ¹⁹	16.1 ³⁵	9.58 ²¹	66.2 ¹²
36	18.93 ²³	61.8 ²⁷	6.11 ²⁴	36.8 ³⁵	9.88 ²⁴	12.6 ³⁴	9.79 ²⁴	67.4 ¹³
	19.16 ²³	59.1	6.46	33.3	10.12	9.2	10.03	68.7
Med. Ort	18.44	74.5	9.35	54.2	10.14	27.5	8.79	60.3
	(618)		(619)		(621)		(622)	

1909	α Triang. austr. 1 ^m .9.		η Herculis. 3 ^m .3.		Gr. 2377. 4 ^m .9.		ε Scorpii. 2 ^m .3.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	16 ^h 38 ^m	68° 51'	16 ^h 39 ^m	39° 5'	16 ^h 43 ^m	56° 56'	16 ^h 44 ^m	34° 7'
Jan. 0	55.79	31.0	44.36	36.2	31.62	31.9	13.23	37.0
10	56.38	29.4	44.61	33.0	31.91	28.5	13.52	37.1
20	57.04	28.2	44.90	30.1	32.26	25.4	13.85	37.3
30	57.76	27.4	45.21	27.6	32.65	22.7	14.19	37.7
Febr. 9	58.51	27.1	45.55	25.5	33.09	20.6	14.55	38.2
19	59.29	27.1	45.90	24.0	33.54	19.1	14.92	38.9
März 1	60.07	27.6	46.25	23.1	34.00	18.2	15.29	39.6
11	60.84	28.4	46.60	22.8	34.46	18.1	15.65	40.4
21	61.58	29.6	46.93	23.1	34.90	18.6	16.00	41.2
31	62.28	31.2	47.25	24.0	35.32	19.7	16.33	42.1
April 10	62.94	33.1	47.54	25.4	35.70	21.4	16.64	43.0
20	63.54	35.2	47.79	27.3	36.03	23.6	16.94	43.9
30	64.08	37.5	48.01	29.5	36.31	26.2	17.20	44.8
Mai 10	64.54	40.0	48.20	32.0	36.53	29.0	17.44	45.7
20	64.92	42.6	48.35	34.7	36.69	32.1	17.64	46.6
30	65.21	45.2	48.45	37.5	36.78	35.3	17.81	47.6
Juni 9	65.41	47.9	48.51	40.2	36.81	38.4	17.94	48.5
19	65.50	50.6	48.53	42.9	36.78	41.4	18.03	49.3
29	65.49	53.1	48.50	45.4	36.68	44.2	18.07	50.2
Juli 9	65.39	55.5	48.42	47.7	36.52	46.8	18.07	51.0
19	65.19	57.6	48.31	49.7	36.30	49.0	18.03	51.6
29	64.90	59.4	48.16	51.3	36.04	50.8	17.95	52.2
Aug. 8	64.53	60.8	47.97	52.6	35.73	52.2	17.82	52.7
18	64.10	61.8	47.76	53.5	35.38	53.1	17.67	53.0
28	63.62	62.4	47.53	53.9	35.01	53.6	17.49	53.1
Sept. 7	63.11	62.5	47.28	53.9	34.63	53.5	17.30	53.0
17	62.60	62.1	47.04	53.4	34.24	52.9	17.10	52.8
27	62.12	61.2	46.80	52.5	33.86	51.8	16.91	52.4
Okt. 7	61.67	59.9	46.58	51.2	33.50	50.2	16.73	51.8
17	61.30	58.2	46.38	49.3	33.18	48.1	16.59	51.1
27	61.01	56.2	46.23	47.2	32.91	45.6	16.49	50.4
Nov. 6	60.83	53.9	46.11	44.6	32.69	42.7	16.43	49.6
16	60.78	51.5	46.05	41.7	32.55	39.4	16.43	48.8
26	60.85	49.0	46.05	38.5	32.48	35.9	16.50	48.1
Dez. 6	61.07	46.3	46.12	34.8	32.49	31.8	16.63	47.5
16	61.40	44.0	46.24	31.4	32.59	28.0	16.81	47.1
26	61.85	42.0	46.42	28.0	32.77	24.3	17.05	46.8
36	62.40	40.3	46.64	24.7	33.02	20.7	17.32	46.8
Mittl. Ort	61.17	41.9	46.55	41.7	34.18	39.0	15.98	43.1

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SCHEINBARE STERNÖRTER.

1909	49 Herculis. 6 ^m .5.		ζ Scorpii. 3 ^m .8.		ζ Arae. 3 ^m .0.		α Ophiuchi. 3 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	16 ^h 47 ^m	15° 7'	16 ^h 48 ^m	42° 12'	16 ^h 51 ^m	55° 50'	16 ^h 53 ^m	9° 30'
Jan. 0	54.08	32.6	7.53	15.0	1.31	41.4	19.43	55.9
10	54.32 ²⁴	30.1 ²⁵	7.85 ³²	14.6 ⁴	1.70 ³⁹	40.3 ¹¹	19.66 ²³	53.7 ²²
20	54.58 ²⁸	27.8 ²³	8.20 ³⁵	14.4 ²	2.15 ⁴⁵	39.5 ⁸	19.91 ²⁵	51.6 ²¹
30	54.86 ²⁶	25.7 ²¹	8.58 ³⁸	14.5 ¹	2.63 ⁴⁸	39.0 ⁵	20.19 ²⁸	49.7 ¹⁹
Febr. 9	55.16 ³⁰	24.0 ¹⁷	8.98 ⁴⁰	14.7 ²	3.13 ⁵⁰	38.8 ²	20.48 ²⁹	48.0 ¹⁷
19	55.46 ³⁰	22.6 ¹⁴	9.39 ⁴¹	15.2 ⁵	3.65 ⁵²	38.9 ¹	20.78 ³⁰	46.7 ¹³
März 1	55.76 ³⁰	21.6 ¹⁰	9.79 ⁴⁰	15.8 ⁶	4.17 ⁵²	39.3 ⁴	21.08 ³⁰	45.7 ¹⁰
11	56.06 ³⁰	21.1 ⁵	10.19 ⁴⁰	16.5 ⁷	4.69 ⁵²	40.0 ⁷	21.38 ³⁰	45.1 ⁶
21	56.35 ²⁹	21.0 ¹	10.58 ³⁹	17.4 ⁹	5.19 ⁵⁰	41.0 ¹⁰	21.67 ²⁹	44.9 ²
31	56.63 ²⁸	21.3 ³	10.95 ³⁷	18.4 ¹⁰	5.67 ⁴⁸	42.2 ¹²	21.94 ²⁷	45.1 ²
April 10	56.89 ²⁶	22.1 ⁸	11.30 ³⁵	19.5 ¹¹	6.12 ⁴⁵	43.6 ¹⁴	22.20 ²⁶	45.7 ⁶
20	57.12 ²³	23.1 ¹⁰	11.63 ³³	20.7 ¹²	6.54 ⁴²	45.2 ¹⁶	22.44 ²⁴	45.7 ⁹
30	57.34 ²²	24.5 ¹⁴	11.93 ³⁰	21.9 ¹²	6.92 ³⁸	46.9 ¹⁷	22.66 ²²	46.6 ¹¹
Mai 10	57.53 ¹⁹	26.1 ¹⁶	12.19 ²⁶	23.2 ¹³	7.26 ³⁴	48.8 ¹⁹	22.85 ¹⁹	47.7 ¹⁴
20	57.69 ¹⁶	27.9 ¹⁸	12.42 ²³	24.6 ¹⁴	7.55 ²⁹	50.8 ²⁰	22.85 ¹⁷	49.1 ¹⁵
30	57.81 ¹²	29.7 ¹⁸	12.61 ¹⁹	25.9 ¹³	7.79 ²⁴	52.9 ²¹	23.02 ¹³	50.6 ¹⁶
Juni 9	57.91 ¹⁰	31.6 ¹⁹	12.76 ¹⁵	27.3 ¹⁴	7.96 ¹⁷	54.9 ²⁰	23.15 ¹⁰	52.2 ¹⁶
19	57.91 ⁶	31.6 ¹⁹	12.76 ⁹	27.3 ¹³	7.96 ¹¹	54.9 ²¹	23.25 ⁷	53.8 ¹⁶
29	57.97 ²	33.5 ¹⁷	12.85 ⁵	28.6 ¹³	8.07 ⁵	57.0 ¹⁹	23.32 ³	55.4 ¹⁵
Juli 9	57.99 ²	35.2 ¹⁶	12.90 ⁰	29.9 ¹²	8.12 ²	58.9 ¹⁹	23.35 ⁰	56.9 ¹⁴
19	57.97 ⁵	36.8 ¹⁵	12.90 ⁵	31.1 ¹¹	8.10 ⁸	60.8 ¹⁷	23.35 ⁴	58.3 ¹³
29	57.92 ⁹	38.3 ¹²	12.85 ⁹	32.2 ⁹	8.02 ¹⁴	62.5 ¹⁴	23.31 ⁸	59.6 ¹⁰
Aug. 8	57.83 ¹¹	39.5 ⁹	12.76 ¹⁴	33.1 ⁷	7.88 ²⁰	63.9 ¹²	23.23 ¹⁰	60.6 ⁹
18	57.72 ¹⁴	40.4 ⁷	12.62 ¹⁸	33.8 ⁵	7.68 ²⁵	65.1 ⁸	23.13 ¹⁴	61.5 ⁶
28	57.58 ¹⁷	41.1 ⁵	12.44 ²⁰	34.3 ³	7.43 ²⁸	65.9 ⁵	22.99 ¹⁵	62.1 ⁵
Sept. 7	57.41 ¹⁷	41.6 ¹	12.24 ²²	34.6 ⁰	7.15 ³¹	66.4 ²	22.84 ¹⁷	62.6 ²
17	57.24 ¹⁸	41.7 ¹	12.02 ²²	34.6 ³	6.84 ³¹	66.6 ³	22.67 ¹⁸	62.8 ¹
27	57.06 ¹⁸	41.6 ⁵	11.80 ²²	34.3 ⁵	6.53 ³⁰	66.3 ⁶	22.49 ¹⁷	62.7 ³
Okt. 7	56.88 ¹⁶	41.1 ⁷	11.58 ²⁰	33.8 ⁷	6.23 ²⁷	65.7 ¹⁰	22.32 ¹⁵	62.4 ⁶
17	56.72 ¹⁴	40.4 ¹¹	11.38 ¹⁶	33.1 ⁹	5.96 ²⁴	64.7 ¹³	22.17 ¹⁴	61.8 ⁹
27	56.58 ¹⁰	39.3 ¹³	11.22 ¹³	32.2 ¹¹	5.72 ¹⁸	63.4 ¹⁵	22.03 ¹⁰	60.9 ¹¹
Nov. 6	56.48 ⁷	38.0 ¹⁷	11.09 ⁶	31.1 ¹¹	5.54 ¹¹	61.9 ¹⁸	21.93 ⁶	59.8 ¹⁴
16	56.41 ²	36.3 ¹⁹	11.03 ¹	30.0 ¹²	5.43 ²	60.1 ¹⁸	21.87 ²	58.4 ¹⁶
26	56.39 ³	34.4 ²¹	11.02 ⁶	28.8 ¹²	5.41 ⁶	58.3 ¹⁹	21.85 ²	56.8 ¹⁹
Dec. 6	56.42 ⁸	32.3 ²⁶	11.08 ¹⁴	27.6 ¹¹	5.47 ¹³	56.4 ¹⁹	21.87 ⁸	54.9 ²⁰
16	56.50 ¹³	29.7 ²⁵	11.22 ¹⁹	26.5 ¹⁰	5.60 ²⁴	54.5 ¹⁹	21.95 ¹³	52.9 ²³
26	56.63 ¹⁸	27.2 ²⁵	11.41 ²⁵	25.5 ⁷	5.84 ³⁰	52.6 ¹⁵	22.08 ¹⁸	50.6 ²³
36	56.81 ²¹	24.7 ²⁵	11.66 ³⁰	24.8 ⁶	6.14 ³⁷	51.1 ¹³	22.26 ²¹	48.3 ²³
	57.02	22.2	11.96	24.2	6.51	49.8	22.47	46.1
Med. Ort.	56.24	34.8	10.56	22.0	5.12	49.8	21.61	57.3

(629)

(630)

(631)

(633)

1909	ε Herculis. 3 ^m .6.		γ Ophiuchi. 2 ^m .4.		ζ Draconis. 3 ^m .0.		α Herculis. (3 ^m .0).	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	16 ^h 56 ^m	31° 3'	17 ^h 5 ^m	15° 36'	17 ^h 8 ^m	65° 49'	17 ^h 10 ^m	14° 29'
Jan. 0	46.26	31.4	7.04	44.4	28.14	29.4	27.64	34.2
10	46.48	28.4	7.28	45.3	28.42	25.8	27.86	31.8
20	46.74	25.6	7.55	46.3	28.79	22.6	28.10	29.5
30	47.03	23.1	7.84	47.2	29.24	19.7	28.36	27.5
Febr. 9	47.34	21.1	8.15	48.2	29.75	17.4	28.65	25.7
19	47.66	19.5	8.46	49.0	30.30	15.7	28.95	24.2
März 1	47.99	18.5	8.78	49.8	30.88	14.6	29.25	23.2
11	48.31	18.0	9.09	50.4	31.46	14.2	29.54	22.6
21	48.63	18.1	9.40	50.8	32.04	14.5	29.84	22.5
31	48.93	18.7	9.69	51.1	32.59	15.4	30.12	22.7
April 10	49.21	19.8	9.97	51.3	33.10	16.9	30.39	23.4
20	49.46	21.4	10.24	51.3	33.55	19.0	30.64	24.5
30	49.69	23.3	10.48	51.2	33.93	21.5	30.87	25.8
Mai 10	49.89	25.5	10.70	51.1	34.24	24.3	31.08	27.4
20	50.05	27.9	10.90	50.9	34.46	27.4	31.26	29.2
30	50.18	30.5	11.07	50.6	34.60	30.6	31.41	31.1
Juni 9	50.27	33.1	11.21	50.4	34.65	33.9	31.52	33.0
19	50.31	35.6	11.31	50.1	34.61	37.1	31.60	34.8
29	50.32	37.9	11.37	49.9	34.48	40.1	31.64	36.6
Juli 9	50.28	40.1	11.39	49.7	34.27	42.9	31.65	38.3
19	50.21	42.1	11.37	49.5	33.98	45.4	31.61	39.8
29	50.10	43.8	11.32	49.4	33.61	47.5	31.54	41.2
Aug. 8	49.95	45.1	11.23	49.2	33.19	49.2	31.44	42.2
18	49.77	46.1	11.11	49.1	32.71	50.4	31.31	43.1
28	49.57	46.7	10.97	49.0	32.20	51.1	31.15	43.6
Sept. 7	49.36	46.8	10.80	49.0	31.65	51.4	30.98	43.9
17	49.14	46.6	10.63	48.9	31.10	51.1	30.80	43.9
27	48.93	46.0	10.47	48.8	30.55	50.3	30.61	43.5
Okt. 7	48.73	45.0	10.31	48.8	30.02	48.9	30.44	42.9
17	48.55	43.5	10.18	48.8	29.53	47.1	30.29	42.0
27	48.40	41.7	10.08	48.8	29.10	44.8	30.17	40.8
Nov. 6	48.30	39.5	10.02	49.0	28.73	42.0	30.09	39.3
16	48.24	37.0	10.01	49.3	28.44	38.9	30.05	37.5
26	48.23	34.2	10.04	49.7	28.25	35.5	30.05	35.5
Dez. 6	48.28	31.2	10.13	50.2	28.15	31.8	30.11	33.2
16	48.39	27.8	10.27	50.9	28.17	27.6	30.22	30.7
26	48.56	24.6	10.46	51.7	28.30	23.8	30.38	28.2
36	48.76	21.5	10.68	52.5	28.53	20.2	30.57	25.8
Mitt. Ort	48.45	35.7	9.48	46.4	31.26	36.0	29.85	36.5

634)

637)

639)

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SCHEINBARE STERNÖRTER.

335

1909	♁ Herculis. 3 ^m .o.		♂ Herculis. 3 ^m .i.		♃ Ophiuchi. 3 ^m .2.		♋ Arae. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.
	17 ^h 11 ^m	24° 56'	17 ^h 11 ^m	36° 54'	17 ^h 16 ^m	24° 54'	17 ^h 17 ^m	55° 26'
Jan. 0	15.39 ²¹	42.1 ²⁸	50.36 ²¹	35.8 ³¹	22.54 ²⁴	31.1 ³	40.04 ³⁶	35.0 ¹³
10	15.60 ²⁵	39.3 ²⁶	50.57 ²⁵	32.7 ³⁰	22.78 ²⁸	31.4 ⁵	40.40 ⁴¹	33.7 ¹¹
20	15.85 ²⁷	36.7 ²⁴	50.82 ²⁹	29.7 ²⁷	23.06 ³¹	31.9 ⁵	40.81 ⁴⁵	32.6 ⁹
30	16.12 ²⁹	34.3 ²¹	51.11 ³¹	27.0 ²²	23.37 ³¹	32.4 ⁵	41.26 ⁴⁸	31.7 ⁵
Febr. 9	16.41 ³¹	32.2 ¹⁶	51.42 ³³	24.8 ¹⁷	23.68 ³³	32.9 ⁶	41.74 ⁵¹	31.2 ²
19	16.72 ³¹	30.6 ¹¹	51.75 ³⁴	23.1 ¹¹	24.01 ³³	33.5 ⁵	42.25 ⁵¹	31.0 ⁰
März 1	17.03 ³¹	29.5 ⁵	52.09 ³⁴	22.0 ⁶	24.34 ³³	34.0 ⁵	42.76 ⁵¹	31.0 ³
11	17.34 ³⁰	29.0 ¹	52.43 ³³	21.4 ⁰	24.68 ³⁴	34.5 ⁵	43.27 ⁵¹	31.3 ⁶
21	17.64 ³⁰	28.9 ⁴	52.76 ³²	21.4 ⁶	25.01 ³¹	35.0 ⁴	43.78 ⁵⁰	31.9 ⁹
31	17.94 ²⁸	29.3 ¹⁰	53.08 ³⁰	22.0 ¹²	25.32 ³¹	35.4 ³	44.28 ⁴⁷	32.8 ¹⁰
April 10	18.22 ²⁶	30.3 ¹³	53.38 ²⁸	23.2 ¹⁶	25.63 ²⁹	35.7 ³	44.75 ⁴⁴	33.8 ¹³
20	18.48 ²³	31.6 ¹⁷	53.66 ²⁵	24.8 ²¹	25.92 ²⁷	36.0 ³	45.19 ⁴²	35.1 ¹⁵
30	18.71 ²¹	33.3 ²⁰	53.91 ²²	26.9 ²⁴	26.19 ²⁴	36.3 ²	45.61 ³⁷	36.6 ¹⁶
Mai 10	18.92 ¹⁸	35.3 ²²	54.13 ¹⁸	29.3 ²⁶	26.43 ²³	36.5 ³	45.98 ³³	38.2 ¹⁸
20	19.10 ¹⁴	37.5 ²³	54.31 ¹⁴	31.9 ²⁷	26.66 ¹⁹	36.8 ²	46.31 ²⁷	40.0 ¹⁸
30	19.24 ¹¹	39.8 ²⁴	54.45 ¹⁰	34.6 ²⁸	26.85 ¹⁵	37.0 ²	46.58 ²²	41.8 ²⁰
Juni 9	19.35 ⁷	42.2 ²³	54.55 ⁵	37.4 ²⁷	27.00 ¹²	37.2 ³	46.80 ¹⁶	43.8 ²⁰
19	19.42 ³	44.5 ²³	54.60 ¹	40.1 ²⁷	27.12 ⁸	37.5 ³	46.96 ⁹	45.8 ¹⁹
29	19.45 ²	46.8 ²⁰	54.61 ⁴	42.8 ²⁴	27.20 ³	37.8 ³	47.05 ³	47.7 ¹⁹
Juli 9	19.43 ⁵	48.8 ¹⁹	54.57 ⁸	45.2 ²²	27.23 ⁰	38.1 ³	47.08 ⁵	49.6 ¹⁸
19	19.38 ⁸	50.7 ¹⁶	54.49 ¹²	47.4 ¹⁹	27.23 ⁵	38.4 ³	47.03 ¹⁰	51.4 ¹⁶
29	19.30 ¹³	52.3 ¹⁴	54.37 ¹⁶	49.3 ¹⁶	27.18 ⁹	38.7 ²	46.93 ¹⁷	53.0 ¹³
Aug. 8	19.17 ¹⁵	53.7 ¹⁰	54.21 ¹⁹	50.9 ¹²	27.09 ¹²	38.9 ²	46.76 ²²	54.3 ¹¹
18	19.02 ¹⁸	54.7 ⁶	54.02 ²²	52.1 ⁷	26.97 ¹⁵	39.1 ¹	46.54 ²⁷	55.4 ⁸
28	18.84 ¹⁹	55.3 ³	53.80 ²³	52.8 ⁴	26.82 ¹⁷	39.2 ⁰	46.27 ²⁹	56.2 ⁴
Sept. 7	18.65 ²¹	55.6 ⁰	53.57 ²⁵	53.2 ¹	26.65 ¹⁸	39.2 ⁰	45.98 ³¹	56.6 ⁰
17	18.44 ²⁰	55.6 ⁵	53.32 ²⁴	53.1 ⁶	26.47 ¹⁸	39.2 ¹	45.67 ³⁰	56.6 ³
27	18.24 ¹⁹	55.1 ⁸	53.08 ²³	52.5 ¹⁰	26.29 ¹⁷	39.1 ²	45.37 ²⁹	56.3 ⁷
Okt. 7	18.05 ¹⁷	54.3 ¹²	52.85 ²¹	51.5 ¹⁴	26.12 ¹⁵	38.9 ²	45.08 ²⁶	55.6 ¹¹
17	17.88 ¹⁴	53.1 ¹⁵	52.64 ¹⁸	50.1 ¹⁹	25.97 ¹¹	38.7 ³	44.82 ²⁰	54.5 ¹³
27	17.74 ¹⁰	51.6 ¹⁹	52.46 ¹³	48.2 ²²	25.86 ⁷	38.4 ³	44.62 ¹⁵	53.2 ¹⁶
Nov. 6	17.64 ⁶	49.7 ²³	52.33 ⁹	46.0 ²⁶	25.79 ²	38.1 ²	44.47 ¹¹	51.6 ¹⁷
16	17.58 ¹	47.4 ²⁴	52.24 ⁴	43.4 ²⁹	25.77 ²	37.9 ²	44.40 ⁷	49.9 ¹⁹
26	17.57 ⁴	45.0 ²⁷	52.20 ²	40.5 ³²	25.79 ⁸	37.7 ¹	44.41 ⁹	48.0 ¹⁸
Dez. 6	17.61 ¹⁰	42.3 ³²	52.22 ⁹	37.3 ³⁶	25.87 ¹⁵	37.6 ¹	44.50 ²⁰	46.2 ²⁰
16	17.71 ¹⁵	39.1 ²⁹	52.31 ¹⁴	33.7 ³³	26.02 ¹⁸	37.7 ¹	44.70 ²⁶	44.2 ¹⁷
26	17.86 ¹⁹	36.2 ²⁹	52.45 ¹⁹	30.4 ³³	26.20 ²³	37.8 ³	44.96 ³³	42.5 ¹⁴
36	18.05	33.3	52.64	27.1	26.43	38.1	45.29	41.1
Mittl. Ort	17.60	45.6	52.63	40.5	25.16	33.7	43.95	40.8
	641)		643)		644)		645)	

1909	♄ Arae. 3 ^m .6.		♌ Arae. 2 ^m .8.		♏ Scorpii. 1 ^m .7.		♁ Draconis. 2 ^m .7.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	17 ^h 22 ^m	60° 36'	17 ^h 24 ^m	49° 48'	17 ^h 27 ^m	37° 2'	17 ^h 28 ^m	52° 21'
Jan. 0	48.47	25.4	44.76	12.6	22.66	13.9	19.99	61.2
10	48.86	23.8	45.07	11.5	22.93	13.5	20.19	57.6
20	49.31	22.5	45.43	10.6	23.23	13.2	20.46	54.3
30	49.82	21.4	45.83	10.0	23.56	13.1	20.77	51.4
Febr. 9	50.36	20.6	46.26	9.5	23.91	13.1	21.13	48.9
19	50.93	20.2	46.70	9.3	24.28	13.2	21.51	47.0
März 1	51.51	20.1	47.16	9.4	24.65	13.5	21.92	45.6
11	52.10	20.3	47.61	9.6	25.03	13.8	22.33	45.0
21	52.68	20.8	48.07	10.1	25.40	14.2	22.75	44.9
31	53.25	21.7	48.51	10.8	25.76	14.7	23.15	45.5
April 10	53.79	22.8	48.93	11.6	26.12	15.2	23.53	46.8
20	54.31	24.1	49.34	12.7	26.46	15.8	23.87	48.6
30	54.78	25.7	49.71	13.9	26.77	16.5	24.18	50.8
Mai 10	55.21	27.5	50.06	15.2	27.05	17.3	24.45	53.4
20	55.58	29.4	50.36	16.6	27.31	18.1	24.67	56.3
30	55.90	31.5	50.62	18.2	27.54	18.9	24.83	59.4
Juni 9	56.15	33.7	50.83	19.8	27.72	19.9	24.94	62.6
19	56.33	35.9	50.99	21.5	27.86	20.8	24.98	65.7
29	56.44	38.1	51.09	23.2	27.96	21.8	24.97	68.8
Juli 9	56.46	40.2	51.13	24.8	28.01	22.7	24.89	71.6
19	56.41	42.2	51.11	26.3	28.00	23.6	24.76	74.2
29	56.28	44.0	51.03	27.7	27.95	24.5	24.58	76.5
Aug. 8	56.08	45.6	50.90	29.0	27.86	25.2	24.34	78.4
18	55.82	46.9	50.72	29.9	27.72	25.8	24.07	79.9
28	55.51	47.8	50.50	30.6	27.55	26.3	23.76	80.9
Sept. 7	55.17	48.3	50.25	31.0	27.36	26.5	23.42	81.5
17	54.81	48.4	49.98	31.1	27.16	26.6	23.08	81.6
27	54.44	48.1	49.71	30.9	26.95	26.4	22.72	81.1
Okt. 7	54.10	47.4	49.46	30.4	26.75	26.1	22.38	80.1
17	53.79	46.3	49.24	29.5	26.57	25.6	22.07	78.7
27	53.54	44.9	49.06	28.4	26.43	24.9	21.79	76.7
Nov. 6	53.35	43.1	48.93	27.1	26.33	24.1	21.55	74.3
16	53.25	41.2	48.87	25.6	26.20	23.3	21.37	71.5
26	53.25	39.1	48.88	24.1	26.30	22.4	21.25	68.3
Dez. 6	53.33	37.0	48.96	22.5	26.38	21.6	21.20	64.9
16	53.53	34.7	49.13	20.9	26.53	20.8	21.23	61.0
26	53.81	32.8	49.35	19.5	26.72	20.1	21.34	57.3
36	54.17	31.0	49.64	18.3	26.96	19.6	21.51	53.7
Mitt. Ort	52.89	31.2	48.30	17.2	25.64	17.1	22.56	66.3
	(648)		(651)		(652)		(653)	

1909	α Ophiuchi. 2 ^m .I.		θ Scorpii. 1 ^m .9.		ξ Serpentis. 3 ^m .5.		η Pavonis. 3 ^m .5.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. -
	17 ^h 30 ^m	12° 37'	17 ^h 30 ^m	42° 56'	17 ^h 32 ^m	15° 20'	17 ^h 36 ^m	64° 40'
Jan. 0	40.33 ¹⁹	30.1 ²³	43.46 ²⁸	23.0 ⁸	20.01 ²²	30.3 ⁸	42.89 ⁴¹	47.2 ²⁰
10	40.52 ²³	27.8 ²²	43.74 ³²	22.2 ⁷	20.23 ²⁵	31.1 ⁹	43.30 ⁴⁸	45.2 ¹⁷
20	40.75 ²⁵	25.6 ²⁰	44.06 ³⁵	21.5 ⁴	20.48 ²⁷	32.0 ⁸	43.78 ⁵⁵	43.5 ¹³
30	41.00 ²⁸	23.6 ¹⁷	44.41 ³⁸	21.1 ²	20.75 ²⁹	32.8 ⁸	44.33 ⁶⁰	42.2 ¹¹
Febr. 9	41.28 ²⁸	21.9 ¹⁴	44.79 ⁴⁰	20.9 ¹	21.04 ³⁰	33.6 ⁷	44.93 ⁶³	41.1 ⁷
19	41.56 ³⁰	20.5 ¹¹	45.19 ⁴⁰	20.8 ¹	21.34 ³¹	34.3 ⁶	45.56 ⁶⁶	40.4 ⁴
März I	41.86 ²⁹	19.4 ⁷	45.59 ⁴¹	20.9 ²	21.65 ³²	34.9 ⁵	46.22 ⁶⁶	40.0 ⁰
11	42.15 ³⁰	18.7 ²	46.00 ⁴⁰	21.1 ⁴	21.97 ³¹	35.4 ³	46.88 ⁶⁶	40.0 ²
21	42.45 ²⁹	18.5 ²	46.40 ⁴⁰	21.5 ⁵	22.28 ³⁰	35.7 ¹	47.54 ⁶⁵	40.2 ⁷
31	42.74 ²⁸	18.7 ⁶	46.80 ³⁸	22.0 ⁷	22.58 ²⁹	35.8 ⁰	48.19 ⁶³	40.9 ⁹
April 10	43.02 ²⁶	19.3 ¹⁰	47.18 ³⁷	22.7 ⁷	22.87 ²⁸	35.8 ¹	48.82 ⁶⁰	41.8 ¹³
20	43.28 ²⁴	20.3 ¹³	47.55 ³⁴	23.4 ⁹	23.15 ²⁶	35.7 ²	49.42 ⁵⁶	43.1 ¹⁵
30	43.52 ²³	21.6 ¹⁵	47.89 ³¹	24.3 ¹⁰	23.41 ²⁵	35.5 ³	49.98 ⁵¹	44.6 ¹⁸
Mai 10	43.75 ¹⁹	23.1 ¹⁷	48.20 ²⁸	25.3 ¹¹	23.66 ²²	35.2 ³	50.49 ⁴⁵	46.4 ²⁰
20	43.94 ¹⁷	24.8 ¹⁸	48.48 ²⁵	26.4 ¹¹	23.88 ¹⁹	34.8 ³	50.94 ³⁸	48.4 ²²
30	44.11 ¹⁴	26.6 ¹⁸	48.73 ²⁰	27.5 ¹³	24.07 ¹⁶	34.5 ⁴	51.32 ³⁰	50.6 ²²
Juni 9	44.25 ¹⁰	28.4 ¹⁹	48.93 ¹⁵	28.8 ¹³	24.23 ¹³	34.1 ³	51.62 ²²	52.8 ²⁴
19	44.35 ⁶	30.3 ¹⁸	49.08 ¹¹	30.1 ¹²	24.36 ⁸	33.8 ³	51.84 ¹⁴	55.2 ²⁴
29	44.41 ²	32.1 ¹⁷	49.19 ⁵	31.3 ¹³	24.44 ⁵	33.5 ³	51.98 ⁵	57.6 ²³
Juli 9	44.43 ²	33.8 ¹⁵	49.24 ⁰	32.6 ¹²	24.49 ⁰	33.2 ²	52.03 ⁵	59.9 ²²
19	44.41 ⁵	35.3 ¹³	49.24 ⁶	33.8 ¹¹	24.49 ³	33.0 ²	51.98 ¹³	62.1 ²¹
29	44.36 ⁹	36.6 ¹¹	49.18 ¹⁰	34.9 ¹⁰	24.46 ⁷	32.8 ¹	51.85 ²²	64.2 ¹⁸
Aug. 8	44.27 ¹²	37.7 ⁹	49.08 ¹⁵	35.9 ⁸	24.39 ¹¹	32.7 ⁰	51.63 ²⁹	66.0 ¹⁵
18	44.15 ¹⁵	38.6 ⁶	48.93 ¹⁹	36.7 ⁶	24.28 ¹⁴	32.7 ¹	51.34 ³⁵	67.5 ¹¹
28	44.00 ¹⁷	39.2 ⁴	48.74 ²¹	37.3 ⁴	24.14 ¹⁵	32.6 ⁰	50.99 ³⁹	68.6 ⁸
Sept. 7	43.83 ¹⁸	39.6 ¹	48.53 ²³	37.7 ¹	23.99 ¹⁷	32.6 ⁰	50.60 ⁴²	69.4 ³
17	43.65 ¹⁸	39.7 ²	48.30 ²³	37.8 ²	23.82 ¹⁷	32.6 ⁰	50.18 ⁴³	69.7 ²
27	43.47 ¹⁷	39.5 ⁵	48.07 ²²	37.6 ⁴	23.65 ¹⁷	32.6 ⁰	49.75 ⁴¹	69.5 ⁶
Okt. 7	43.30 ¹⁶	39.0 ⁸	47.85 ²⁰	37.2 ⁶	23.48 ¹⁴	32.6 ¹	49.34 ³⁷	68.9 ¹⁰
17	43.14 ¹³	38.2 ¹⁰	47.65 ¹⁶	36.6 ⁹	23.34 ¹²	32.7 ¹	48.97 ³²	67.9 ¹⁵
27	43.01 ¹⁰	37.2 ¹⁴	47.49 ¹¹	35.7 ¹⁰	23.22 ⁸	32.8 ²	48.65 ²⁴	66.4 ¹⁷
Nov. 6	42.91 ⁵	35.8 ¹⁶	47.38 ⁵	34.7 ¹¹	23.14 ⁴	33.0 ³	48.41 ¹⁵	64.7 ²⁰
16	42.86 ¹	34.2 ¹⁹	47.33 ⁰	33.6 ¹²	23.10 ¹	33.3 ³	48.26 ⁵	62.7 ²²
26	42.85 ⁴	32.3 ²⁰	47.33 ⁷	32.4 ¹¹	23.11 ⁶	33.6 ⁵	48.21 ⁶	60.5 ²⁴
Dec. 6	42.89 ⁹	30.3 ²⁴	47.40 ¹⁵	31.3 ¹³	23.17 ¹²	34.1 ⁶	48.27 ¹⁶	58.1 ²³
16	42.98 ¹⁴	27.9 ²⁴	47.55 ²⁰	30.0 ¹⁰	23.29 ¹⁶	34.7 ⁷	48.43 ³⁰	55.8 ²⁴
26	43.12 ¹⁷	25.5 ²³	47.75 ²⁶	29.0 ⁹	23.45 ²⁰	35.4 ⁸	48.73 ³⁷	53.4 ²¹
36	43.29	23.2	48.01	28.1	23.65	36.2	49.10	51.3
MITL. ORT	42.58	32.4	46.67	26.4	22.50	30.9	47.90	51.8
	656)		654)		658)		661)	

1909	ι Herculis. 3 ^m .6.		ω Draconis. 4 ^m .9.		β Ophiuchi. 2 ^m .8.		μ Herculis. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	17 ^h 36 ^m	46° 2'	17 ^h 37 ^m	68° 47'	17 ^h 38 ^m	4° 36'	17 ^h 42 ^m	27° 46'
Jan. 0	51.29 ¹⁸	70.8 ³⁴	25.44 ²³	55.1 ³⁶	56.30 ¹⁹	15.1 ¹⁹	51.49 ¹⁸	20.8 ²⁹
10	51.47 ²⁴	67.4 ³³	25.67 ³³	51.5 ³⁴	56.49 ²²	13.2 ¹⁸	51.67 ²¹	17.9 ²⁸
20	51.71 ²⁸	64.1 ²⁹	26.00 ⁴⁴	48.1 ³⁰	56.71 ²⁵	11.4 ¹⁶	51.88 ²⁴	15.1 ²⁶
30	51.99 ³²	61.2 ²⁵	26.44 ⁵¹	45.1 ²⁶	56.96 ²⁷	9.8 ¹⁵	52.12 ²⁸	12.5 ²²
Febr. 9	52.31 ³⁴	58.7 ¹⁹	26.95 ⁵⁷	42.5 ²¹	57.23 ²⁸	8.3 ¹³	52.40 ²⁹	10.3 ¹⁸
19	52.65 ³⁷	56.8 ¹⁴	27.52 ⁶²	40.4 ¹⁴	57.51 ³⁰	7.0 ⁹	52.69 ³¹	8.5 ¹²
März 1	53.02 ³⁷	55.4 ⁸	28.14 ⁶⁴	39.0 ⁷	57.81 ²⁹	6.1 ⁶	53.00 ³¹	7.3 ⁸
11	53.39 ³⁷	54.6 ¹	28.78 ⁶⁵	38.3 ¹	58.10 ²⁹	5.5 ²	53.31 ³¹	6.5 ³
21	53.76 ³⁷	54.5 ⁵	29.43 ⁶³	38.2 ⁶	58.39 ²⁹	5.3 ¹	53.62 ³¹	6.2 ³
31	54.13 ³⁵	55.0 ¹¹	30.06 ⁶⁰	38.8 ¹²	58.68 ²⁸	5.4 ⁵	53.93 ²⁹	6.5 ⁹
April 10	54.48 ³²	56.1 ¹⁶	30.66 ⁵⁴	40.0 ¹⁸	58.96 ²⁷	5.9 ⁷	54.22 ²⁸	7.4 ¹⁵
20	54.80 ²⁹	57.7 ²¹	31.20 ⁴⁷	41.8 ²³	59.23 ²⁵	6.6 ¹⁰	54.50 ²⁶	8.7 ¹⁶
30	55.09 ²⁶	59.8 ²⁵	31.67 ⁴⁰	44.1 ²⁷	59.48 ²³	7.6 ¹²	54.76 ²⁴	10.3 ²¹
Mai 10	55.35 ²²	62.3 ²⁸	32.07 ³¹	46.8 ³⁰	59.71 ²⁰	8.8 ¹⁴	55.00 ²¹	12.3 ²³
20	55.57 ¹⁷	65.1 ³⁰	32.38 ²¹	49.8 ³²	59.91 ¹⁸	10.2 ¹⁵	55.21 ¹⁷	14.6 ²⁵
30	55.74 ¹²	68.1 ³⁰	32.59 ¹¹	53.0 ³³	60.09 ¹⁵	11.7 ¹⁴	55.38 ¹⁴	17.1 ²⁵
Juni 9	55.86 ⁷	71.1 ³¹	32.70 ⁰	56.3 ³³	60.24 ¹²	13.1 ¹⁵	55.52 ⁹	19.6 ²⁵
19	55.93 ¹	74.2 ³⁰	32.70 ⁹	59.6 ³²	60.36 ⁷	14.6 ¹⁵	55.61 ⁵	22.1 ²⁴
29	55.94 ³	77.2 ²⁸	32.61 ²⁰	62.8 ³⁰	60.43 ⁴	16.1 ¹³	55.66 ²	24.5 ²³
Juli 9	55.91 ⁹	80.0 ²⁶	32.41 ²⁹	65.8 ²⁸	60.47 ⁰	17.4 ¹²	55.68 ³	26.8 ²²
19	55.82 ¹⁴	82.6 ²²	32.12 ³⁸	68.6 ²⁴	60.47 ⁴	18.6 ¹¹	55.65 ⁷	29.0 ¹⁹
29	55.68 ¹⁹	84.8 ¹⁹	31.74 ⁴⁶	71.0 ²⁰	60.43 ⁸	19.7 ⁹	55.58 ¹²	30.9 ¹⁶
Aug. 8	55.49 ²²	86.7 ¹⁶	31.28 ⁵²	73.0 ¹⁷	60.35 ¹¹	20.6 ⁷	55.46 ¹⁴	32.5 ¹³
18	55.27 ²⁶	88.3 ¹¹	30.76 ⁵⁸	74.7 ¹¹	60.24 ¹³	21.3 ⁵	55.32 ¹⁸	33.8 ⁹
28	55.01 ²⁸	89.4 ⁶	30.18 ⁶²	75.8 ⁷	60.11 ¹⁶	21.8 ³	55.14 ²⁰	34.7 ⁶
Sept. 7	54.73 ³⁰	90.0 ²	29.56 ⁶⁴	76.5 ¹	59.95 ¹⁷	22.1 ¹	54.94 ²¹	35.3 ²
17	54.43 ²⁹	90.2 ³	28.92 ⁶⁵	76.6 ³	59.78 ¹⁷	22.2 ¹	54.73 ²¹	35.5 ²
27	54.14 ²⁹	89.9 ⁸	28.27 ⁶³	76.3 ⁹	59.61 ¹⁷	22.1 ⁴	54.52 ²¹	35.3 ⁶
Okt. 7	53.85 ²⁸	89.1 ¹³	27.64 ⁶⁰	75.4 ¹⁴	59.44 ¹⁵	21.7 ⁵	54.31 ¹⁹	34.7 ¹¹
17	53.57 ²⁴	87.8 ¹⁸	27.04 ⁵⁵	74.0 ²⁰	59.29 ¹³	21.2 ⁸	54.12 ¹⁷	33.7 ¹⁴
27	53.33 ²⁰	86.0 ²²	26.49 ⁴⁹	72.0 ²⁴	59.16 ⁹	20.4 ¹⁰	53.95 ¹⁴	32.3 ¹⁸
Nov. 6	53.13 ¹⁵	83.8 ²⁶	26.00 ⁴⁰	69.6 ²⁸	59.07 ⁶	19.4 ¹²	53.81 ⁹	30.5 ²¹
16	52.98 ¹⁰	81.2 ³⁰	25.60 ³¹	66.8 ³²	59.01 ¹	18.2 ¹⁴	53.72 ⁵	28.4 ²⁵
26	52.88 ⁴	78.2 ³²	25.29 ²⁰	63.6 ³⁴	59.00 ¹	16.8 ¹⁶	53.67 ⁰	25.9 ²¹
Dez. 6	52.84 ³	75.0 ³⁵	25.09 ⁸	60.2 ³⁷	59.04 ⁸	15.2 ¹⁷	53.67 ⁵	23.2 ²⁸
16	52.87 ¹¹	71.5 ³⁹	25.01 ⁵	56.5 ⁴¹	59.12 ¹⁴	13.5 ²⁰	53.72 ¹²	20.4 ³³
26	52.98 ¹⁵	67.6 ³⁵	25.06 ¹⁶	52.4 ³⁷	59.26 ¹⁸	11.5 ¹⁹	53.84 ¹⁵	17.1 ³¹
36	53.13	64.1	25.22	48.7	59.44	9.6	53.99	14.1
Mitt. Ort	53.73	75.4	28.96	60.3	58.60	16.8	53.77	24.2
	663)		664)		665)		667)	

SCHEINBARE STERNÖRTER.

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1909	♃ Drac. austr. 4 ^m .7.		♄ Draconis. 3 ^m .6.		♁ Herculis. 3 ^m .8.		♅ Draconis. 5 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	17 ^h 43 ^m	72° 11'	17 ^h 51 ^m	56° 52'	17 ^h 53 ^m	37° 15'	17 ^h 53 ^m	76° 58'
Jan. 0	29.28	32.5	54.53	67.7	5.56	39.8	26.27	27.0
10	29.51	28.8	54.70	64.1	5.72	36.6	26.50	23.4
20	29.86	25.4	54.94	60.6	5.93	33.5	26.90	20.0
30	30.33	22.3	55.24	57.5	6.18	30.7	27.46	16.9
Febr. 9	30.90	19.7	55.59	54.8	6.46	28.3	28.17	14.2
19	31.56	17.6	55.99	52.6	6.76	26.3	29.00	12.0
März 1	32.27	16.1	56.42	51.0	7.09	24.8	29.92	10.5
11	33.01	15.3	56.87	50.1	7.42	23.0	30.89	9.5
21	33.76	15.1	57.32	49.9	7.75	23.7	31.89	9.3
31	34.49	15.6	57.77	50.3	8.09	24.0	32.87	9.7
April 10	35.19	16.8	58.19	51.3	8.41	24.9	33.80	10.7
20	35.83	18.5	58.59	52.9	8.71	26.3	34.66	12.3
30	36.39	20.7	58.95	55.1	8.99	28.2	35.42	14.4
Mai 10	36.86	23.3	59.27	57.6	9.25	30.4	36.04	17.0
20	37.22	26.2	59.54	60.5	9.47	33.0	36.52	19.8
30	37.46	29.4	59.74	63.6	9.66	35.7	36.85	23.0
Juni 9	37.59	32.7	59.88	66.8	9.80	38.6	37.02	26.2
19	37.59	35.9	59.95	70.1	9.90	41.5	37.01	29.5
29	37.47	39.1	59.96	73.3	9.95	44.3	36.85	32.7
Juli 9	37.23	42.2	59.89	76.4	9.96	47.0	36.51	35.8
19	36.88	45.0	59.76	79.2	9.91	49.5	36.02	38.6
29	36.42	47.4	59.57	81.8	9.82	51.7	35.40	41.1
Aug. 8	35.87	49.5	59.32	84.0	9.69	53.7	34.64	43.4
18	35.24	51.2	59.02	85.8	9.52	55.3	33.78	45.2
28	34.55	52.4	58.67	87.1	9.32	56.5	32.82	46.5
Sept. 7	33.81	53.2	58.30	88.0	9.09	57.2	31.81	47.4
17	33.04	53.4	57.90	88.4	8.84	57.6	30.74	47.8
27	32.26	53.1	57.50	88.2	8.59	57.5	29.66	47.7
Okt. 7	31.49	52.3	57.10	87.6	8.35	56.9	28.59	47.0
17	30.76	51.0	56.72	86.4	8.12	55.9	27.55	45.8
27	30.08	49.1	56.37	84.7	7.91	54.4	26.58	44.2
Nov. 6	29.47	46.8	56.07	82.5	7.74	52.6	25.70	42.0
16	28.96	44.0	55.82	79.9	7.61	50.3	24.94	39.4
26	28.56	40.9	55.64	76.9	7.53	47.6	24.32	36.4
Dez. 6	28.28	37.5	55.53	73.6	7.50	44.7	23.86	33.1
16	28.14	33.8	55.50	70.0	7.52	41.6	23.58	29.6
26	28.14	29.7	55.55	66.0	7.61	38.0	23.49	25.6
36	28.29	26.0	55.68	62.3	7.75	34.7	23.60	21.9
Mittel. Ort	33.25	37.4	57.31	72.0	7.91	43.6	31.31	31.4
	(670)		(671)		(672)		(675)	

1909	ν Ophiuchi. 3 ^m .4.		γ Draconis. 2 ^m .3.		67 Ophiuchi. 4 ^m .0.		γ Sagittarii. 3 ^m .0.	
	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	17 ^h 53 ^m	9° 45'	17 ^h 54 ^m	51° 29'	17 ^h 56 ^m	2° 55'	17 ^h 59 ^m	30° 25'
Jan. 0	58.53 ¹⁸	47.9 ¹⁰	26.96 ¹⁶	53.1 ³⁵	2.90 ¹⁷	65.3 ¹⁷	54.86 ²¹	33.0 ²
10	58.71 ²³	48.9 ¹⁰	27.12 ²²	49.6 ³⁴	3.07 ²¹	63.6 ¹⁷	55.07 ²⁵	32.8 ²
20	58.94 ²⁵	49.9 ¹⁰	27.34 ²⁸	46.2 ³¹	3.28 ²⁴	61.9 ¹⁶	55.32 ²⁹	32.6 ⁰
30	59.19 ²⁷	50.9 ⁹	27.62 ³²	43.1 ²⁶	3.52 ²⁶	60.3 ¹⁴	55.61 ³⁰	32.6 ⁰
Febr. 9	59.46 ²⁹	51.8 ⁸	27.94 ³⁶	40.5 ²²	3.78 ²⁷	58.9 ¹²	55.91 ³³	32.5 ⁰
19	59.75 ³⁰	52.6 ⁶	28.30 ³⁹	38.3 ¹⁶	4.05 ²⁹	57.7 ⁹	56.24 ³⁴	32.5 ⁰
März 1	60.05 ³⁰	53.2 ⁴	28.69 ⁴⁰	36.7 ⁹	4.34 ²⁹	56.8 ⁵	56.58 ³⁴	32.6 ¹
11	60.35 ³⁰	53.6 ²	29.09 ⁴⁰	35.8 ³	4.63 ³⁰	56.3 ²	56.92 ³⁵	32.7 ¹
21	60.65 ³⁰	53.8 ⁰	29.49 ⁴⁰	35.5 ³	4.93 ²⁹	56.1 ¹	57.27 ³⁴	32.8 ¹
31	60.95 ²⁹	53.8 ²	29.89 ³⁹	35.8 ¹⁰	5.22 ²⁸	56.2 ⁴	57.61 ³⁴	32.9 ¹
April 10	61.24 ²⁹	53.6 ⁴	30.28 ³⁶	36.8 ¹⁶	5.50 ²⁸	56.6 ⁷	57.95 ³³	33.0 ¹
20	61.53 ²⁷	53.2 ⁵	30.64 ³³	38.4 ²⁰	5.78 ²⁶	57.3 ¹⁰	58.28 ³¹	33.1 ²
30	61.80 ²⁵	52.7 ⁷	30.97 ³⁰	40.4 ²⁵	6.04 ²⁴	58.3 ¹²	58.59 ³⁰	33.3 ²
Mai 10	62.05 ²³	52.0 ⁷	31.27 ²⁵	42.9 ²⁸	6.28 ²²	59.5 ¹³	58.89 ²⁷	33.5 ³
20	62.28 ²⁰	51.3 ⁸	31.52 ²⁰	45.7 ³⁰	6.50 ²⁰	60.8 ¹⁴	59.16 ²⁴	33.8 ³
30	62.48 ¹⁸	50.5 ⁷	31.72 ¹⁴	48.7 ³²	6.70 ¹⁶	62.2 ¹⁵	59.40 ²¹	34.1 ³
Juni 9	62.66 ¹⁴	49.8 ⁸	31.86 ⁸	51.9 ³²	6.86 ¹³	63.7 ¹⁴	59.61 ¹⁷	34.4 ⁵
19	62.80 ¹⁰	49.0 ⁷	31.94 ³	55.1 ³²	6.99 ⁹	65.1 ¹⁴	59.78 ¹³	34.9 ⁵
29	62.90 ⁶	48.3 ⁶	31.97 ³	58.3 ³⁰	7.08 ⁶	66.5 ¹³	59.91 ⁸	35.4 ⁶
Juli 9	62.96 ²	47.7 ⁵	31.94 ¹⁰	61.3 ²⁸	7.14 ¹	67.8 ¹²	59.99 ³	36.0 ⁶
19	62.98 ²	47.2 ⁵	31.84 ¹⁵	64.1 ²⁵	7.15 ²	69.0 ¹⁰	60.02 ²	36.6 ⁶
29	62.96 ⁵	46.7 ³	31.69 ²⁰	66.6 ²¹	7.13 ⁷	70.0 ⁹	60.00 ⁶	37.2 ⁶
Aug. 8	62.91 ¹⁰	46.4 ²	31.49 ²⁵	68.7 ¹⁸	7.06 ⁹	70.9 ⁷	59.94 ¹⁰	37.8 ⁵
18	62.81 ¹³	46.2 ²	31.24 ²⁹	70.5 ¹⁴	6.97 ¹³	71.6 ⁵	59.84 ¹⁴	38.3 ⁴
28	62.68 ¹⁵	46.0 ¹	30.95 ³²	71.9 ⁹	6.84 ¹⁵	72.1 ³	59.70 ¹⁶	38.7 ⁴
Sept. 7	62.53 ¹⁶	45.9 ⁰	30.63 ³⁴	72.8 ⁴	6.69 ¹⁷	72.4 ¹	59.54 ¹⁹	39.1 ²
17	62.37 ¹⁷	45.9 ¹	30.29 ³⁴	73.2 ¹	6.52 ¹⁷	72.5 ⁰	59.35 ¹⁹	39.3 ¹
27	62.20 ¹⁷	46.0 ¹	29.95 ³⁵	73.1 ⁶	6.35 ¹⁷	72.5 ³	59.16 ¹⁹	39.4 ¹
Okt. 7	62.03 ¹⁵	46.1 ³	29.60 ³²	72.5 ¹²	6.18 ¹⁶	72.2 ⁴	58.97 ¹⁷	39.3 ¹
17	61.88 ¹²	46.4 ³	29.28 ²⁹	71.3 ¹⁶	6.02 ¹³	71.8 ⁷	58.80 ¹⁵	39.2 ³
27	61.76 ¹⁰	46.7 ⁴	28.99 ²⁶	69.7 ²¹	5.89 ¹⁰	71.1 ⁹	58.65 ¹¹	38.9 ⁴
Nov. 6	61.66 ⁶	47.1 ⁵	28.73 ²¹	67.6 ²⁵	5.79 ⁷	70.2 ¹¹	58.54 ⁶	38.5 ⁴
16	61.60 ¹	47.6 ⁷	28.52 ¹⁴	65.1 ³⁰	5.72 ²	69.1 ¹³	58.48 ²	38.1 ⁴
26	61.59 ³	48.3 ⁷	28.38 ⁹	62.1 ³²	5.70 ²	67.8 ¹⁴	58.46 ³	37.7 ⁵
Dez. 6	61.62 ⁹	49.0 ⁹	28.29 ¹	58.9 ³⁴	5.72 ⁷	66.4 ¹⁶	58.49 ⁹	37.2 ⁴
16	61.71 ¹⁴	49.9 ¹⁰	28.28 ⁶	55.5 ⁴⁰	5.79 ¹³	64.8 ¹⁹	58.58 ¹⁶	36.8 ⁴
26	61.85 ¹⁷	50.9 ¹¹	28.34 ¹³	51.5 ³⁶	5.92 ¹⁶	62.9 ¹⁸	58.74 ²⁰	36.4 ³
36	62.02	52.0	28.47	47.9	6.08	61.1	58.94	36.1
Mittl. Ort	60.98	46.9	29.57	57.3	5.23	67.2	57.69	33.1
	673)		676)		677)		679)	

1909	72 Ophiuchi. 3 ^m .6.		o Herculis. 3 ^m .8.		μ Sagittarii. 3 ^m .9.		η Serpentis. 3 ^m .2.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -
	18 ^h 2 ^m	9° 32'	18 ^h 3 ^m	28° 44'	18 ^h 8 ^m	21° 5'	18 ^h 16 ^m	2° 55'
Jan. 0	59.80	58.7	57.24	54.7	16.63	1.0	33.65	25.2
10	59.97	56.6	57.39	51.7	16.82	1.3	33.81	26.6
20	60.17	54.6	57.59	48.9	17.05	1.6	34.01	28.0
30	60.40	52.8	57.82	46.3	17.30	2.0	34.23	29.2
Febr. 9	60.65	51.1	58.08	44.0	17.58	2.3	34.48	30.3
19	60.92	49.8	58.36	42.2	17.87	2.6	34.75	31.3
März 1	61.20	48.7	58.66	40.8	18.18	2.8	35.03	32.0
11	61.49	48.1	58.97	39.9	18.50	3.0	35.32	32.5
21	61.78	47.8	59.28	39.6	18.82	3.1	35.61	32.6
31	62.07	48.0	59.59	39.8	19.14	3.0	35.90	32.5
April 10	62.36	48.5	59.89	40.5	19.46	2.9	36.19	32.2
20	62.64	49.4	60.19	41.8	19.76	2.8	36.48	31.6
30	62.90	50.6	60.46	43.4	20.06	2.5	36.75	30.7
Mai 10	63.15	52.0	60.71	45.4	20.34	2.3	37.01	29.7
20	63.37	53.6	60.94	47.7	20.60	2.0	37.25	28.7
30	63.57	55.4	61.13	50.2	20.83	1.8	37.46	27.5
Juni 9	63.73	57.2	61.29	52.8	21.03	1.6	37.65	26.3
19	63.86	59.0	61.41	55.4	21.19	1.4	37.80	25.1
29	63.96	60.7	61.49	58.0	21.32	1.4	37.92	24.0
Juli 9	64.01	62.4	61.52	60.5	21.40	1.4	37.99	22.9
19	64.03	63.9	61.50	62.7	21.44	1.4	38.03	22.0
29	64.00	65.3	61.45	64.8	21.43	1.4	38.02	21.2
Aug. 8	63.93	66.4	61.35	66.6	21.38	1.6	37.98	20.5
18	63.83	67.4	61.21	68.1	21.30	1.8	37.90	20.0
28	63.70	68.1	61.04	69.3	21.17	2.1	37.78	19.7
Sept. 7	63.55	68.6	60.85	70.1	21.02	2.3	37.64	19.4
17	63.37	68.8	60.64	70.5	20.86	2.4	37.48	19.4
27	63.19	68.8	60.42	70.5	20.68	2.5	37.30	19.4
Okt. 7	63.02	68.5	60.21	70.1	20.51	2.6	37.13	19.6
17	62.85	67.9	60.00	69.3	20.35	2.6	36.97	20.0
27	62.71	67.1	59.82	68.1	20.21	2.6	36.83	20.5
Nov. 6	62.60	66.0	59.67	66.5	20.10	2.6	36.72	21.2
16	62.52	64.7	59.56	64.5	20.03	2.6	36.65	22.0
26	62.49	63.1	59.49	62.2	20.01	2.7	36.61	22.9
Dez. 6	62.50	61.3	59.47	59.6	20.04	2.7	36.62	24.0
16	62.55	59.4	59.50	56.8	20.11	2.9	36.67	25.2
26	62.66	57.2	59.59	53.6	20.25	3.1	36.78	26.7
36	62.81	55.1	59.72	50.7	20.42	3.3	36.93	28.0
MITL. ORT	62.11	61.1	59.55	57.9	19.26	0.0	36.05	23.0
	(680)		(681)		(682)		(688)	

1909	♄ Sagittarii. 1 ^m .9.		♃ Herculis. 3 ^m .9.		♁ Telescopii. 3 ^m .7.		♁ Draconis. 5 ^m .1.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	18 ^h 18 ^m	34° 25'	18 ^h 19 ^m	21° 43'	18 ^h 20 ^m	46° 1'	18 ^h 22 ^m	58° 44'
Jan. 0	4.94 ²⁰	42.7 ⁶	46.89 ¹⁴	37.0 ²⁷	10.13 ²¹	9.8 ¹³	32.00 ¹¹	49.0 ³⁷
10	5.14 ²⁵	42.1 ⁵	47.03 ¹⁸	34.3 ²⁶	10.36 ²³	8.5 ¹¹	32.11 ¹⁹	45.3 ³⁵
20	5.39 ²⁸	41.6 ⁴	47.21 ²²	31.7 ²³	10.64 ³²	7.4 ¹¹	32.30 ²⁶	41.8 ³³
30	5.67 ³⁰	41.2 ⁴	47.43 ²⁴	29.4 ²¹	10.96 ³⁵	6.3 ⁸	32.56 ³³	38.5 ²⁹
Febr. 9	5.97 ³³	40.8 ²	47.67 ²⁶	27.3 ¹⁸	11.31 ³⁸	5.5 ⁸	32.89 ³⁷	35.6 ²⁵
19	6.30 ³⁴	40.6 ³	47.93 ²⁸	25.5 ¹³	11.69 ⁴⁰	4.7 ⁶	33.26 ⁴²	33.1 ¹⁹
März 1	6.64 ³⁶	40.3 ¹	48.21 ³⁰	24.2 ⁹	12.09 ⁴²	4.1 ⁴	33.68 ⁴⁴	31.2 ¹²
11	7.00 ³⁶	40.2 ¹	48.51 ³⁰	23.3 ³	12.51 ⁴²	3.7 ²	34.12 ⁴⁷	30.0 ⁶
21	7.36 ³⁶	40.1 ¹	48.81 ³⁰	23.0 ¹	12.93 ⁴³	3.5 ¹	34.59 ⁴⁷	29.4 ⁰
31	7.72 ³⁶	40.0 ⁰	49.11 ³⁰	23.1 ⁶	13.36 ⁴²	3.4 ¹	35.06 ⁴⁶	29.4 ⁷
April 10	8.08 ³⁵	40.0 ⁰	49.41 ²⁹	23.7 ¹¹	13.78 ⁴¹	3.5 ³	35.52 ⁴⁴	30.1 ¹³
20	8.43 ³⁴	40.0 ¹	49.70 ²⁷	24.8 ¹⁴	14.19 ³⁹	3.8 ⁴	35.96 ⁴⁰	31.4 ¹⁹
30	8.77 ³²	40.1 ²	49.97 ²⁶	26.2 ¹⁸	14.58 ³⁸	4.2 ⁷	36.36 ³⁷	33.3 ²⁴
Mai 10	9.09 ³⁰	40.3 ³	50.23 ²⁴	28.0 ²⁰	14.96 ³⁵	4.9 ⁸	36.73 ³¹	35.7 ²⁷
20	9.39 ²⁷	40.6 ⁵	50.47 ²¹	30.0 ²²	15.31 ³¹	5.7 ⁹	37.04 ²⁶	38.4 ³⁰
30	9.66 ²³	41.1 ⁵	50.68 ¹⁷	32.2 ²⁴	15.62 ²⁷	6.6 ¹¹	37.30 ¹⁹	41.4 ³³
Juni 9	9.89 ²⁰	41.6 ⁶	50.85 ¹⁴	34.6 ²⁴	15.89 ²²	7.7 ¹³	37.49 ¹²	44.7 ³³
19	10.09 ¹⁴	42.2 ⁷	50.99 ¹⁰	37.0 ²³	16.11 ¹⁷	9.0 ¹³	37.61 ⁵	48.0 ³³
29	10.23 ¹¹	42.9 ⁷	51.09 ⁶	39.3 ²³	16.28 ¹²	10.3 ¹⁴	37.66 ²	51.3 ³³
Juli 9	10.34 ⁵	43.6 ⁸	51.15 ¹	41.6 ²¹	16.40 ⁵	11.7 ¹⁴	37.64 ¹⁰	54.6 ³¹
19	10.39 ⁰	44.4 ⁸	51.16 ³	43.7 ¹⁹	16.45 ⁰	13.1 ¹⁴	37.54 ¹⁷	57.7 ²⁸
29	10.39 ⁴	45.2 ⁸	51.13 ⁷	45.6 ¹⁷	16.45 ⁶	14.5 ¹⁴	37.37 ²³	60.5 ²⁵
Aug. 8	10.35 ¹⁰	46.0 ⁸	51.06 ¹¹	47.3 ¹⁴	16.39 ¹²	15.9 ¹²	37.14 ²⁹	63.0 ²²
18	10.25 ¹⁴	46.8 ⁷	50.95 ¹⁴	48.7 ¹¹	16.27 ¹⁶	17.1 ¹⁰	36.85 ³⁴	65.2 ¹⁷
28	10.11 ¹⁶	47.5 ⁵	50.81 ¹⁷	49.8 ⁸	16.11 ²⁰	18.1 ⁹	36.51 ³⁹	66.9 ¹³
Sept. 7	9.95 ¹⁹	48.0 ⁴	50.64 ¹⁹	50.6 ⁵	15.91 ²³	19.0 ⁵	36.12 ⁴¹	68.2 ⁹
17	9.76 ²⁰	48.4 ²	50.45 ²⁰	51.1 ¹	15.68 ²⁵	19.5 ³	35.71 ⁴³	69.1 ³
27	9.56 ²⁰	48.6 ¹	50.25 ²⁰	51.2 ³	15.43 ²⁵	19.8 ⁰	35.28 ⁴³	69.4 ³
Okt. 7	9.36 ¹⁹	48.7 ²	50.05 ¹⁹	50.9 ⁶	15.18 ²³	19.8 ³	34.85 ⁴²	69.1 ⁷
17	9.17 ¹⁷	48.5 ³	49.86 ¹⁷	50.3 ¹⁰	14.95 ²⁰	19.5 ⁶	34.43 ³⁹	68.4 ¹³
27	9.00 ¹³	48.2 ⁴	49.69 ¹⁴	49.3 ¹³	14.75 ¹⁷	18.9 ⁸	34.04 ³⁶	67.1 ¹⁸
Nov. 6	8.87 ⁹	47.8 ⁶	49.55 ¹¹	48.0 ¹⁷	14.58 ¹¹	18.1 ¹⁰	33.68 ³¹	65.3 ²³
16	8.78 ³	47.2 ⁶	49.44 ⁶	46.3 ²⁰	14.47 ⁶	17.1 ¹²	33.37 ²⁴	63.0 ²⁷
26	8.75 ¹	46.6 ⁷	49.38 ²	44.3 ²²	14.41 ¹	15.9 ¹³	33.13 ¹⁷	60.3 ³¹
Dez. 6	8.76 ⁷	45.9 ⁷	49.36 ²	42.1 ²⁴	14.42 ⁷	14.6 ¹⁴	32.96 ¹⁰	57.2 ³³
16	8.83 ¹²	45.2 ⁷	49.38 ⁷	39.7 ²⁶	14.49 ¹³	13.2 ¹⁴	32.86 ²	53.9 ³⁶
26	8.95 ²⁰	44.5 ⁷	49.45 ¹³	37.1 ²⁹	14.62 ²²	11.8 ¹⁵	32.84 ⁷	50.3 ⁴⁰
36	9.15	43.8	49.58	34.2	14.84	10.3	32.91	46.3
Mhd. Ort	7.90	41.6	49.19	39.8	13.56	9.0	34.91	51.9
	(689)		(690)		(691)		(692)	

1909	χ Draconis. 3 ^m .6.		ζ Pavonis. 4 ^m .0.		α Lyrae. 1 ^m .*)		ι10 Herculis. 4 ^m .1.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	18 ^h 22 ^m	72° 41'	18 ^h 32 ^m	71° 30'	18 ^h 33 ^m	38° 41'	18 ^h 41 ^m	20° 27'
Jan. 0	37.70	33.9	17.80	27.3	49.02	51.7	42.40	28.4
10	37.80 ¹⁰	30.2 ³⁷	18.16 ³⁶	24.7 ²⁶	49.14 ¹²	48.4 ³³	42.52 ¹²	25.8 ²⁶
20	38.05 ²⁵	26.7 ³⁵	18.64 ⁴⁸	22.2 ²⁵	49.30 ¹⁶	45.3 ³¹	42.68 ¹⁶	23.3 ²⁵
30	38.42 ³⁷	23.4 ³³	19.23 ⁵⁹	20.0 ²²	49.51 ²¹	42.4 ²⁹	42.87 ¹⁹	21.1 ²²
Febr. 9	38.91 ⁴⁹	20.4 ³⁰	19.90 ⁶⁷	18.0 ²⁰	49.76 ²⁵	39.8 ²⁶	43.09 ²²	19.0 ²¹
19	39.50 ⁵⁹	17.9 ²⁵	20.65 ⁷⁵	16.3 ¹⁷	50.04 ²⁸	37.6 ²²	43.34 ²⁵	17.2 ¹⁸
März 1	40.17 ⁶⁷	16.0 ¹⁹	21.45 ⁸⁰	15.0 ¹³	50.34 ³⁰	35.9 ¹⁷	43.61 ²⁷	15.9 ¹³
11	40.90 ⁷³	14.7 ¹³	22.30 ⁸⁵	14.0 ¹⁰	50.66 ³²	34.7 ¹²	43.89 ²⁸	14.9 ¹⁰
21	41.66 ⁷⁶	14.0 ⁷	23.16 ⁸⁶	13.4 ⁶	51.00 ³⁴	34.2 ⁵	44.18 ²⁹	14.5 ⁴
31	42.43 ⁷⁷	14.1 ¹	24.04 ⁸⁸	13.2 ²	51.34 ³⁴	34.2 ⁰	44.48 ³⁰	14.5 ⁰
April 10	43.18 ⁷⁵	14.7 ⁶	24.91 ⁸⁷	13.4 ²	51.67 ³³	34.9 ⁷	44.78 ³⁰	15.1 ⁶
20	43.89 ⁷¹	16.0 ¹³	25.76 ⁸⁵	14.0 ⁶	52.00 ³³	36.1 ¹²	45.07 ²⁹	16.1 ¹⁰
30	44.53 ⁶⁴	17.8 ¹⁸	26.57 ⁸¹	14.9 ⁹	52.31 ³¹	37.7 ¹⁶	45.36 ²⁹	17.4 ¹³
Mai 10	45.10 ⁵⁷	20.1 ²³	27.34 ⁷⁷	16.2 ¹³	52.60 ²⁹	39.8 ²¹	45.63 ²⁷	19.1 ¹⁷
20	45.57 ⁴⁷	22.8 ²⁷	28.04 ⁷⁰	17.8 ¹⁶	52.86 ²⁶	42.3 ²⁵	45.88 ²⁵	21.1 ²⁰
30	45.93 ³⁶	25.9 ³¹	28.66 ⁶²	19.7 ¹⁹	53.08 ²²	45.1 ²⁸	46.11 ²³	23.3 ²²
Juni 9	46.17 ²⁴	29.1 ³²	29.20 ⁵⁴	21.9 ²²	53.27 ¹⁹	48.0 ²⁹	46.30 ¹⁹	25.6 ²³
19	46.29 ¹²	32.4 ³³	29.62 ⁴²	24.3 ²⁴	53.42 ¹⁵	51.0 ³⁰	46.46 ¹⁶	28.0 ²⁴
29	46.28 ¹	35.7 ³³	29.94 ³²	26.8 ²⁵	53.51 ⁹	54.0 ³⁰	46.58 ¹²	30.3 ²³
Juli 9	46.15 ¹³	39.0 ³³	30.12 ¹⁸	29.4 ²⁶	53.56 ⁵	56.9 ²⁹	46.66 ⁸	32.6 ²³
19	45.89 ²⁶	42.1 ³¹	30.18 ⁶	32.0 ²⁶	53.55 ¹	59.7 ²⁸	46.70 ⁴	34.8 ²²
29	45.51 ³⁸	44.9 ²⁸	30.12 ⁶	34.5 ²⁵	53.49 ⁶	62.2 ²⁵	46.69 ¹	36.7 ¹⁹
Aug. 8	45.03 ⁴⁸	47.5 ²⁶	29.95 ¹⁷	36.9 ²⁴	53.39 ¹⁰	64.5 ²³	46.69 ⁵	38.5 ¹⁸
18	44.45 ⁵⁸	49.7 ²²	29.66 ²⁹	39.0 ²¹	53.39 ¹⁵	66.5 ²⁰	46.64 ⁹	40.5 ¹⁵
28	43.79 ⁶⁶	51.5 ¹⁸	29.26 ⁴⁰	40.9 ¹⁹	53.24 ¹⁸	68.1 ¹⁶	46.55 ¹³	42.0 ²²
Sept. 7	43.07 ⁷²	52.8 ¹³	28.78 ⁴⁸	42.3 ¹⁴	53.06 ²²	69.3 ¹²	46.42 ¹⁶	41.2 ⁹
17	42.30 ⁷⁷	53.7 ⁹	28.23 ⁵⁵	43.3 ¹⁰	52.84 ²⁴	70.1 ⁸	46.26 ¹⁸	42.1 ⁶
27	41.50 ⁸⁰	54.0 ³	27.65 ⁵⁸	43.3 ⁶	52.60 ²⁶	70.1 ³	46.08 ¹⁹	42.7 ²
Okt. 7	40.70 ⁸⁰	53.8 ²	27.06 ⁵⁹	43.9 ⁰	52.34 ²⁵	70.4 ¹	45.89 ²⁰	42.9 ¹
17	39.91 ⁷⁹	53.0 ⁸	26.48 ⁵⁸	43.9 ⁵	52.09 ²⁵	70.3 ⁶	45.69 ¹⁹	42.8 ⁴
27	39.16 ⁷⁵	51.8 ¹²	26.48 ⁵³	43.4 ¹⁰	51.84 ²³	69.7 ¹¹	45.50 ¹⁷	42.4 ⁸
Nov. 6	38.46 ⁷⁰	51.8 ¹⁸	25.95 ⁴⁵	42.4 ¹⁴	51.61 ²¹	68.6 ¹⁵	45.33 ¹⁵	41.6 ¹²
16	37.85 ⁶¹	50.0 ²³	25.50 ³⁶	41.0 ¹⁸	51.40 ¹⁷	67.1 ²⁰	45.18 ¹²	40.4 ¹⁵
26	37.33 ⁵²	47.7 ²⁷	25.14 ²⁴	39.2 ²²	51.23 ¹²	65.1 ²³	45.06 ⁸	38.9 ¹⁸
Dez. 6	36.93 ⁴⁰	45.0 ³¹	24.90 ¹²	37.0 ²⁵	51.11 ⁷	62.8 ²⁷	44.98 ⁴	37.1 ²⁰
16	36.66 ²⁷	41.9 ³⁴	24.78 ²	34.5 ²⁶	51.04 ²	60.1 ³⁰	44.94 ⁰	35.1 ²³
26	36.53 ¹³	38.5 ³⁶	24.80 ¹⁶	31.9 ²⁷	51.02 ³	57.1 ³¹	44.94 ⁵	32.8 ²⁴
36	36.54 ¹	34.9 ⁴¹	24.96 ³³	29.2 ²⁹	51.05 ⁹	54.0 ³⁵	44.99 ¹¹	30.4 ²⁸
	36.54	30.8	25.29	26.3	51.14	50.5	45.10	27.6
Mittel. Ort	41.89	36.7	24.40	26.1	51.44	54.5	44.71	31.2
	695)		698)		699)		703)	

*) Die jährliche Parallaxe ist bereits angebracht.

1909	λ Pavonis. 4 ^m .3.		β Lyrae. (3 ^m .3).		σ Sagittarii. 2 ^m .1.		ο Draconis. 4 ^m .6.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl. +
	18 ^h 43 ^m	62° 17'	18 ^h 46 ^m	33° 15'	18 ^h 49 ^m	26° 24'	18 ^h 49 ^m	59° 16'
Jan. 0	42.47 ²⁷	36.5 ²⁵	40.84 ¹⁰	21.4 ³³	34.63 ¹⁷	41.1 ³	48.60 ⁶	35.4 ³⁹
10	42.74 ³³	34.0 ²¹	40.94 ¹⁵	18.1 ²⁹	34.80 ¹⁹	40.8 ²	48.66 ¹⁴	31.5 ³⁶
20	43.07 ⁴¹	31.9 ²⁰	41.09 ¹⁹	15.2 ²⁸	34.99 ²³	40.6 ¹	48.80 ²²	27.9 ³³
30	43.48 ⁴⁶	29.9 ¹⁸	41.28 ²²	12.4 ²⁵	35.22 ²⁶	40.5 ²	49.02 ²⁸	24.6 ³¹
Febr. 9	43.94 ⁵²	28.1 ¹⁶	41.50 ²⁶	9.9 ²²	35.48 ²⁸	40.3 ²	49.30 ³⁵	21.5 ²⁷
19	44.46 ⁵⁵	26.5 ¹³	41.76 ²⁸	7.7 ¹⁷	35.76 ³⁰	40.1 ³	49.65 ³⁹	18.8 ²¹
März 1	45.01 ⁵⁸	25.2 ¹⁰	42.04 ³⁰	6.0 ¹²	36.06 ³¹	39.8 ²	50.04 ⁴³	16.7 ¹⁵
11	45.59 ⁶⁰	24.2 ⁷	42.34 ³²	4.8 ⁶	36.37 ³³	39.6 ³	50.47 ⁴⁶	15.2 ⁹
21	46.19 ⁶¹	23.5 ⁴	42.66 ³²	4.2 ⁰	36.70 ³³	39.3 ⁴	50.93 ⁴⁷	14.3 ³
31	46.80 ⁶¹	23.1 ¹	42.98 ³²	4.2 ⁵	37.03 ³³	38.9 ⁴	51.40 ⁴⁷	14.0 ⁴
April 10	47.41 ⁶¹	23.0 [—]	43.30 ³¹	4.7 ¹⁰	37.36 ³³	38.5 ⁴	51.87 ⁴⁶	14.4 ¹⁰
20	48.02 ⁵⁸	23.3 ⁵	43.61 ³¹	5.7 ¹⁶	37.69 ³³	38.1 ³	52.33 ⁴⁴	15.4 ¹⁶
30	48.60 ⁵⁶	23.8 ⁷	43.92 ²⁹	7.3 ¹⁹	38.02 ³¹	37.8 ⁴	52.77 ⁴⁰	17.0 ²²
Mai 10	49.16 ⁵¹	24.9 ¹²	44.21 ²⁶	9.2 ²³	38.33 ³⁰	37.4 ³	53.17 ³⁵	19.2 ²⁵
20	49.67 ⁴⁷	25.9 ¹⁴	44.47 ²⁴	11.5 ²⁶	38.63 ²⁸	37.1 ²	53.52 ³⁰	21.7 ³⁰
30	50.14 ⁴¹	27.3 ¹⁷	44.71 ²⁰	14.1 ²⁷	38.91 ²⁴	36.9 ¹	53.82 ²⁴	24.7 ³¹
Juni 9	50.55 ³⁴	29.0 ²⁰	44.91 ¹⁶	16.8 ²⁹	39.15 ²¹	36.8 ⁰	54.06 ¹⁷	27.8 ³³
19	50.89 ²⁷	31.0 ²⁰	45.07 ¹¹	19.7 ²⁸	39.36 ¹⁷	36.8 ¹	54.23 ²⁰	31.1 ³⁴
29	51.16 ¹⁸	33.0 ²¹	45.18 ⁷	22.5 ²⁸	39.53 ¹³	36.9 ²	54.33 ²	34.5 ³⁴
Juli 9	51.34 ⁹	35.1 ²³	45.25 ²	25.3 ²⁷	39.66 ⁹	37.1 ³	54.35 ⁶	37.9 ³²
19	51.43 ¹	37.4 ²²	45.27 ²	28.0 ²⁵	39.75 ³	37.4 ⁴	54.29 ²³	41.1 ³⁰
29	51.44 ⁸	39.6 ²¹	45.25 ⁸	30.5 ²²	39.78 ²	37.8 ⁴	54.16 ²⁰	44.1 ²⁸
Aug. 8	51.36 ¹⁷	41.7 ¹⁹	45.17 ¹¹	32.7 ²⁰	39.76 ⁶	38.2 ⁵	53.96 ²⁶	46.9 ²⁵
18	51.19 ²³	43.6 ¹⁷	45.06 ¹⁶	34.7 ¹⁶	39.70 ⁹	38.7 ⁵	53.70 ³²	49.4 ²¹
28	50.96 ³⁰	45.3 ¹⁴	44.90 ¹⁹	36.3 ¹²	39.61 ¹⁴	39.2 ⁵	53.38 ³⁷	51.5 ¹⁷
Sept. 7	50.66 ³⁵	46.7 ¹⁰	44.71 ²¹	37.5 ⁹	39.47 ¹⁶	39.7 ⁴	53.01 ⁴⁰	53.2 ¹²
17	50.31 ³⁸	47.7 ⁶	44.50 ²³	38.4 ⁴	39.31 ¹⁸	40.1 ³	52.61 ⁴³	54.4 ⁷
27	49.93 ³⁸	48.3 ²	44.27 ²³	38.8 ⁰	39.13 ¹⁸	40.4 ²	52.18 ⁴³	55.1 ²
Okt. 7	49.55 ³⁸	48.5 ²	44.04 ²³	38.8 ⁵	38.95 ¹⁸	40.6 ²	51.75 ⁴⁴	55.3 ⁴
17	49.17 ³⁵	48.3 ⁷	43.81 ²²	38.3 ⁹	38.77 ¹⁶	40.8 ⁰	51.31 ⁴¹	54.9 ⁹
27	48.82 ³⁰	47.6 ¹¹	43.59 ¹⁹	37.4 ¹³	38.61 ¹⁴	40.8 ⁰	50.90 ³⁹	54.0 ¹⁴
Nov. 6	48.52 ²⁴	46.5 ¹⁵	43.40 ¹⁵	36.1 ¹⁷	38.47 ¹⁰	40.8 ²	50.51 ³⁴	52.6 ¹⁹
16	48.28 ¹⁶	45.0 ¹⁷	43.25 ¹²	34.4 ²¹	38.37 ⁵	40.6 ¹	50.17 ²⁹	50.7 ²⁴
26	48.12 ⁷	43.3 ²¹	43.13 ⁷	32.3 ²⁴	38.32 ¹	40.5 ³	49.88 ²²	48.3 ²⁸
Dez. 6	48.05 ²	41.2 ²²	43.06 ³	29.9 ²⁷	38.31 ³	40.2 ²	49.66 ¹⁴	45.5 ³²
16	48.07 ¹²	39.0 ²³	43.03 ³	27.2 ²⁹	38.34 ⁹	40.0 ²	49.52 ⁷	42.3 ³⁴
26	48.19 ²⁴	36.7 ²⁵	43.06 ⁸	24.3 ³³	38.43 ¹⁴	39.8 ³	49.45 ¹	38.9 ³⁹
36	48.43	34.2	43.14	21.0	38.57	39.5 ³	49.46	35.0
Mittl. Ort	47.25	33.6	43.21	23.7	37.39	37.6	51.56	36.8
	704)		705)		706)		707)	

1909	λ Telescopii. 5 ^m . I.		θ Serpentis pr. 4 ^m . 5.		R Lyrae. (4 ^m . 5).		γ Lyrae. 3 ^m . 2.	
	AR	Dekl. —	AR	Dekl. +	AR	Dekl. +	AR	Dekl. +
	18 ^h 51 ^m	53° 3'	18 ^h 51 ^m	4° 4'	18 ^h 52 ^m	43° 49'	18 ^h 55 ^m	32° 33'
Jan. 0	7.20 ²³	33.7 ²⁰	39.39 ¹³	61.3 ¹⁸	31.48 ⁹	31.0 ³⁶	29.99 ¹⁰	49.1 ³²
10	7.43 ²⁶	31.7 ¹⁸	39.52 ¹⁵	59.5 ¹⁷	31.57 ¹⁴	27.4 ³³	30.09 ¹⁴	45.9 ²⁹
20	7.69 ³²	29.9 ¹⁶	39.67 ¹⁹	57.8 ¹⁵	31.71 ¹⁸	24.1 ³¹	30.23 ¹⁸	43.0 ²⁸
30	8.01 ³⁶	28.3 ¹⁵	39.86 ²²	56.3 ¹³	31.89 ²⁴	21.0 ²⁸	30.41 ²¹	40.2 ²⁵
Febr. 9	8.37 ⁴⁰	26.8 ¹³	40.08 ²⁴	55.0 ¹¹	32.13 ²⁷	18.2 ²⁵	30.62 ²⁵	37.7 ²²
19	8.77 ⁴³	25.5 ¹²	40.32 ²⁶	53.9 ⁹	32.40 ³⁰	15.7 ¹⁹	30.87 ²⁸	35.5 ¹⁷
März 1	9.20 ⁴⁶	24.3 ⁹	40.58 ²⁷	53.0 ⁵	32.70 ³³	13.8 ¹⁴	31.15 ²⁹	33.8 ¹²
11	9.66 ⁴⁷	23.4 ⁸	40.85 ²⁹	52.5 ²	33.03 ³⁴	12.4 ⁸	31.44 ³¹	32.6 ⁶
21	10.13 ⁴⁸	22.6 ⁴	41.14 ²⁹	52.3 ²	33.37 ³⁶	11.6 ²	31.75 ³¹	32.0 ¹
31	10.61 ⁴⁸	22.2 ³	41.43 ²⁹	52.5 ⁵	33.73 ³⁶	11.4 ⁵	32.06 ³²	31.9 ⁴
April 10	11.09 ⁴⁸	21.9 ⁰	41.72 ²⁹	53.0 ⁸	34.09 ³⁵	11.9 ¹⁰	32.38 ³²	32.3 ¹⁰
20	11.57 ⁴⁷	21.9 ²	42.01 ²⁹	53.8 ¹¹	34.44 ³⁴	12.9 ¹⁵	32.70 ³¹	33.3 ¹⁴
30	12.04 ⁴⁵	22.1 ⁶	42.30 ²⁷	54.9 ¹³	34.78 ³²	14.4 ²¹	33.01 ²⁹	34.7 ¹⁹
Mai 10	12.49 ⁴²	22.7 ⁷	42.57 ²⁶	56.2 ¹⁴	35.10 ²⁹	16.5 ²⁴	33.30 ²⁷	36.6 ²³
20	12.91 ³⁹	23.4 ¹⁰	42.83 ²⁴	57.6 ¹⁷	35.39 ²⁵	18.9 ²⁸	33.57 ²⁴	38.9 ²⁵
30	13.30 ³⁴	24.4 ¹²	43.07 ²¹	59.3 ¹⁶	35.64 ²¹	21.7 ³⁰	33.81 ²¹	41.4 ²⁷
Juni 9	13.64 ²⁹	25.6 ¹⁴	43.28 ¹⁸	60.9 ¹⁷	35.85 ¹⁷	24.7 ³¹	34.02 ¹⁷	44.1 ²⁹
19	13.93 ²⁴	27.0 ¹⁶	43.46 ¹⁴	62.6 ¹⁶	36.02 ¹¹	27.8 ³²	34.19 ¹³	47.0 ²⁸
29	14.17 ¹⁷	28.6 ¹⁷	43.60 ¹¹	64.2 ¹⁵	36.13 ⁶	31.0 ³¹	34.32 ⁸	49.8 ²⁸
Juli 9	14.34 ¹⁰	30.3 ¹⁸	43.71 ⁶	65.7 ¹⁵	36.19 ¹	34.1 ³⁰	34.40 ³	52.6 ²⁷
19	14.44 ³	32.1 ¹⁸	43.77 ¹	67.2 ¹²	36.20 ⁵	37.1 ²⁸	34.43 ²	55.3 ²⁶
29	14.47 ³	33.9 ¹⁷	43.78 ²	68.4 ¹¹	36.15 ¹⁰	39.9 ²⁶	34.41 ⁶	57.9 ²²
Aug. 8	14.43 ¹⁰	35.6 ¹⁷	43.76 ⁶	69.5 ⁹	36.05 ¹⁵	42.5 ²²	34.35 ¹¹	60.1 ²⁰
18	14.33 ¹⁷	37.3 ¹⁵	43.70 ¹⁰	70.4 ⁷	35.90 ²⁰	44.7 ¹⁹	34.24 ¹⁵	62.1 ¹⁷
28	14.16 ²¹	38.8 ¹²	43.60 ¹³	71.1 ⁵	35.70 ²³	46.6 ¹⁵	34.09 ¹⁸	63.8 ¹³
Sept. 7	13.95 ²⁵	40.0 ⁹	43.47 ¹⁶	71.6 ³	35.47 ²⁵	48.1 ¹¹	33.91 ²⁰	65.1 ⁹
17	13.70 ²⁸	40.9 ⁷	43.31 ¹⁶	71.9 ¹	35.22 ²⁸	49.2 ⁶	33.71 ²³	66.0 ⁵
27	13.42 ²⁹	41.6 ³	43.15 ¹⁷	72.0 ¹	34.94 ²⁹	49.8 ¹	33.48 ²³	66.5 ¹
Okt. 7	13.13 ²⁹	41.9 ¹	42.98 ¹⁷	71.9 ³	34.65 ²⁸	49.9 ³	33.25 ²²	66.6 ⁴
17	12.84 ²⁶	41.8 ⁵	42.81 ¹⁶	71.6 ⁵	34.37 ²⁶	49.6 ⁹	33.03 ²²	66.2 ⁸
27	12.58 ²²	41.3 ⁸	42.65 ¹³	71.1 ⁸	34.11 ²⁵	48.7 ¹³	32.81 ¹⁹	65.4 ¹²
Nov. 6	12.36 ¹⁸	40.5 ¹¹	42.52 ¹⁰	70.3 ⁹	33.86 ²¹	47.4 ¹⁸	32.62 ¹⁶	64.2 ¹⁶
16	12.18 ¹¹	39.4 ¹³	42.42 ⁶	69.4 ¹²	33.65 ¹⁶	45.6 ²³	32.46 ¹²	62.6 ²⁰
26	12.07 ⁵	38.1 ¹⁶	42.36 ³	68.2 ¹³	33.49 ¹²	43.3 ²⁶	32.34 ⁸	60.6 ²⁴
Dez. 6	12.02 ²	36.5 ¹⁷	42.33 ²	66.9 ¹⁵	33.37 ⁶	40.7 ²⁹	32.26 ³	58.2 ²⁶
16	12.04 ¹⁰	34.8 ¹⁹	42.35 ⁶	65.4 ¹⁶	33.31 ¹	37.8 ³²	32.23 ²	55.6 ²⁸
26	12.14 ¹⁸	32.9 ²⁰	42.41 ¹¹	63.8 ¹⁷	33.30 ⁶	34.6 ³⁶	32.25 ⁷	52.8 ³²
36	12.32 ²⁴	30.9 ²⁰	42.52 ²⁰	62.1 ¹⁷	33.36 ³³	31.0 ³⁶	32.32 ²⁴	49.6 ³²
Mittl. Ort	11.06	29.9	41.74	64.3	33.98	32.7	32.36	51.2
	708)		709)		711)		713)	

1909	ζ Aquilae. 3 ^m .0.		λ Aquilae. 3 ^m .2.		α Coron. austr. 4 ^m .1.		π Sagittarii. 2 ^m .9.	
	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	19 ^h 1 ^m	13° 43'	19 ^h 1 ^m	5° 1'	19 ^h 3 ^m	38° 2'	19 ^h 4 ^m	21° 10'
Jan. 0	11.33	36.4	22.77	14.2	13.85	53.5	18.52	12.5
10	11.44	34.1	22.90	15.4	14.01	52.5	18.67	12.6
20	11.58	32.0	23.06	16.4	14.21	51.5	18.84	12.6
30	11.76	30.1	23.25	17.4	14.45	50.6	19.04	12.6
Febr. 9	11.96	28.3	23.46	18.3	14.73	49.7	19.28	12.6
19	12.19	26.8	23.70	19.0	15.04	48.8	19.53	12.6
März 1	12.45	25.6	23.96	19.5	15.36	48.0	19.81	12.4
11	12.72	24.8	24.23	19.7	15.71	47.3	20.11	12.2
21	13.00	24.4	24.52	19.7	16.08	46.7	20.41	11.8
31	13.29	24.5	24.81	19.5	16.45	46.1	20.73	11.4
April 10	13.58	25.0	25.11	19.0	16.83	45.7	21.05	10.9
20	13.88	25.8	25.41	18.3	17.21	45.3	21.37	10.3
30	14.17	27.1	25.70	17.4	17.58	45.1	21.69	9.7
Mai 10	14.44	28.6	25.99	16.3	17.94	45.0	22.00	9.1
20	14.71	30.4	26.26	15.1	18.28	45.0	22.29	8.5
30	14.95	32.4	26.51	13.8	18.60	45.3	22.57	7.9
Juni 9	15.16	34.4	26.73	12.6	18.89	45.7	22.82	7.5
19	15.34	36.5	26.93	11.4	19.14	46.2	23.03	7.1
29	15.48	38.7	27.08	10.2	19.35	46.9	23.21	6.8
Juli 9	15.59	40.7	27.20	9.1	19.51	47.8	23.35	6.7
19	15.65	42.7	27.28	8.1	19.61	48.7	23.44	6.7
29	15.67	44.4	27.31	7.3	19.66	49.7	23.49	6.7
Aug. 8	15.64	47.4	27.31	6.7	19.66	50.8	23.49	6.9
18	15.57	47.4	27.26	6.2	19.60	51.9	23.44	7.2
28	15.47	48.5	27.17	5.8	19.50	52.8	23.36	7.5
Sept. 7	15.33	49.3	27.05	5.5	19.35	53.7	23.24	7.8
17	15.18	49.9	26.90	5.5	19.17	54.5	23.09	8.1
27	15.00	50.1	26.74	5.5	18.97	55.1	22.92	8.4
Okt. 7	14.82	50.1	26.57	5.6	18.76	55.4	22.75	8.7
17	14.64	49.8	26.41	5.9	18.55	55.6	22.58	8.9
27	14.47	49.2	26.26	6.3	18.36	55.5	22.42	9.1
Nov. 6	14.33	48.3	26.13	6.9	18.19	55.2	22.28	9.3
16	14.21	47.1	26.03	7.5	18.06	54.7	22.18	9.4
26	14.12	45.7	25.96	8.3	17.98	54.1	22.11	9.5
Dez. 6	14.08	44.0	25.94	9.2	17.95	53.3	22.09	9.5
16	14.08	42.1	25.95	10.1	17.97	52.4	22.11	9.6
26	14.12	40.1	26.01	11.1	18.04	51.4	22.17	9.6
36	14.21	37.8	26.12	12.3	18.18	50.4	22.30	9.7
Mittl. Ort	13.64	39.3	25.19	10.6	16.92	48.8	21.16	8.1
	716)		717)		718)		720)	

SCHEINBARE STERNÖRTER.

1909	♁ Draconis. 3 ^m .0.		♁ Lyrae. 4 ^m .3.		♁ Aquilae. 5 ^m .4.		♁ Cygni. 3 ^m .8.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	19 ^h 12 ^m	67° 29'	19 ^h 13 ^m	37° 57'	19 ^h 13 ^m	11° 25'	19 ^h 14 ^m	53° 11'
Jan. 0	28.67	65.3	10.14	74.9	30.39	47.6	57.31	60.3
10	28.64	61.4	10.21	71.4	30.49	45.4	57.34	56.5
20	28.73	57.8	10.33	68.3	30.62	43.5	57.44	53.1
30	28.93	54.3	10.49	65.4	30.79	41.6	57.60	49.8
Febr. 9	29.22	51.1	10.68	62.7	30.99	40.0	57.82	46.7
19	29.60	48.2	10.92	60.3	31.21	38.6	58.10	44.0
März 1	30.06	45.8	11.19	58.4	31.45	37.5	58.42	41.7
11	30.58	44.0	11.49	57.0	31.71	36.7	58.78	40.0
21	31.14	42.8	11.80	56.1	31.99	36.4	59.17	38.9
31	31.74	42.2	12.13	55.8	32.28	36.5	59.57	38.4
April 10	32.35	42.3	12.47	56.1	32.57	36.9	59.99	38.5
20	32.95	43.0	12.80	57.0	32.87	37.8	60.40	39.3
30	33.52	44.4	13.13	58.4	33.16	39.0	60.80	40.7
Mai 10	34.05	46.3	13.45	60.2	33.44	40.5	61.18	42.7
20	34.52	48.7	13.74	62.5	33.71	42.2	61.52	45.1
30	34.92	51.4	14.00	65.1	33.96	44.1	61.83	47.8
Juni 9	35.25	54.5	14.23	67.9	34.18	46.1	62.08	50.8
19	35.48	57.8	14.42	70.9	34.37	48.1	62.28	54.1
29	35.61	61.2	14.56	73.9	34.53	50.2	62.42	57.4
Juli 9	35.65	64.7	14.65	76.9	34.65	52.2	62.50	60.8
19	35.59	68.1	14.70	79.9	34.72	54.0	62.51	64.1
29	35.43	71.3	14.69	82.7	34.75	55.8	62.46	67.2
Aug. 8	35.18	74.4	14.63	85.2	34.74	57.3	62.34	70.1
18	34.84	77.1	14.52	87.5	34.69	58.6	62.18	72.8
28	34.42	79.5	14.37	89.4	34.60	59.7	61.93	75.1
Sept. 7	33.93	81.6	14.18	91.0	34.47	60.5	61.66	76.9
17	33.39	83.2	13.96	92.2	34.32	61.0	61.34	78.4
27	32.82	84.3	13.72	93.0	34.15	61.3	61.00	79.4
Okt. 7	32.22	84.9	13.47	93.3	33.98	61.4	60.65	79.9
17	31.61	84.9	13.22	93.1	33.80	61.1	60.29	79.9
27	31.02	84.4	12.98	92.5	33.64	60.6	59.95	79.4
Nov. 6	30.45	83.3	12.76	91.4	33.49	59.8	59.62	78.3
16	29.93	81.7	12.57	89.9	33.37	58.7	59.33	76.7
26	29.47	79.6	12.42	88.0	33.28	57.4	59.08	74.6
Dez. 6	29.09	77.1	12.31	85.7	33.23	55.9	58.88	72.1
16	28.80	74.1	12.24	83.0	33.22	54.2	58.74	69.2
26	28.61	70.8	12.23	80.1	33.25	52.3	58.67	66.0
36	28.52	67.3	12.26	77.1	33.32	50.4	58.66	62.6
Mittl. Ort	32.21	65.2	12.55	76.3	32.71	50.6	60.02	60.8

723)

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725)

726)

1909	α Draconis. 4 ^m .5.		α Sagittarii. 4 ^m .0.		δ Aquilae. 3 ^m .3.		β Cygni. 3 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	19 ^h 17 ^m	73° 10'	19 ^h 17 ^m	40° 47'	19 ^h 20 ^m	2° 55'	19 ^h 27 ^m	27° 45'
Jan. 0	14.24	73.2	31.81	21.9	52.28	54.1	0.76	63.1
10	14.13	69.3	31.96	20.6	52.38	52.5	0.82	60.4
20	14.19	65.7	32.15	19.4	52.51	51.0	0.93	57.5
30	14.39	62.3	32.38	18.2	52.68	49.6	1.08	54.9
Febr. 9	14.73	59.0	32.65	17.0	52.87	48.4	1.26	52.5
19	15.19	56.1	32.95	16.0	53.09	47.4	1.47	50.4
März 1	15.75	53.6	33.28	14.9	53.33	46.7	1.71	48.7
11	16.41	51.7	33.63	14.0	53.59	46.2	1.98	47.5
21	17.13	50.4	34.00	13.2	53.86	46.0	2.27	46.7
31	17.89	49.7	34.39	12.4	54.15	46.2	2.57	46.5
April 10	18.67	49.7	34.78	11.8	54.44	46.8	2.87	46.8
20	19.44	50.3	35.17	11.3	54.74	47.6	3.19	47.6
30	20.17	51.5	35.56	11.0	55.03	48.7	3.50	48.9
Mai 10	20.84	53.4	35.94	10.8	55.32	50.0	3.80	50.6
20	21.44	55.6	36.31	10.8	55.60	51.5	4.08	52.6
30	21.94	58.3	36.65	11.0	55.85	53.1	4.35	55.0
Juni 9	22.34	61.3	36.96	11.4	56.09	54.8	4.58	57.5
19	22.62	64.6	37.23	12.1	56.29	56.5	4.78	60.2
29	22.78	68.0	37.46	12.8	56.46	58.1	4.94	63.0
Juli 9	22.80	71.4	37.64	13.8	56.59	59.7	5.06	65.7
19	22.69	74.8	37.76	14.9	56.68	61.2	5.13	68.4
29	22.46	78.2	37.83	16.0	56.72	62.5	5.15	70.8
Aug. 8	22.11	81.2	37.84	17.3	56.73	63.6	5.13	73.1
18	21.64	84.0	37.79	18.5	56.69	64.6	5.06	75.2
28	21.07	86.5	37.70	19.6	56.61	65.3	4.95	76.9
Sept. 7	20.41	88.7	37.56	20.7	56.50	65.9	4.81	78.3
17	19.68	90.3	37.38	21.6	56.36	66.2	4.63	79.4
27	18.89	91.5	37.17	22.3	56.20	66.4	4.44	80.1
Okt. 7	18.08	92.2	36.95	22.8	56.04	66.3	4.23	80.4
17	17.25	92.4	36.74	23.1	55.87	66.1	4.02	80.4
27	16.43	92.1	36.53	23.1	55.71	65.6	3.82	79.9
Nov. 6	15.65	91.2	36.35	22.8	55.57	65.0	3.63	79.0
16	14.93	89.7	36.20	22.3	55.46	64.2	3.47	77.7
26	14.28	87.7	36.10	21.6	55.37	63.2	3.34	76.0
Dez. 6	13.72	85.2	36.05	20.7	55.33	62.0	3.25	74.1
16	13.27	82.3	36.05	19.7	55.32	60.7	3.20	71.8
26	12.96	79.1	36.11	18.6	55.36	59.3	3.19	69.3
36	12.78	75.7	36.22	17.3	55.43	57.8	3.24	66.7
Mittl. Ort	18.52	72.5	34.96	15.8	54.62	57.8	3.07	64.9

729)

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SCHEINBARE STERNÖRTER.

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1909	♐ Cygni. 3 ^m .9.		♐ Sagittarii. 4 ^m .6.		♑ Cygni. 4 ^m .5.		♒ Aquilae. 2 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	19 ^h 27 ^m	51° 31'	19 ^h 31 ^m	25° 5'	19 ^h 33 ^m	50° 0'	19 ^h 41 ^m	10° 23'
Jan. 0	22.08	67.8	7.58	12.4	57.47	35.9	53.73	24.0
10	22.09	64.5	7.68	12.1	57.48	32.6	53.79	22.2
20	22.17	60.7	7.84	11.8	57.56	28.9	53.90	20.2
30	22.32	57.4	8.03	11.5	57.69	25.6	54.04	18.5
Febr. 9	22.52	54.3	8.24	11.1	57.88	22.6	54.21	16.9
19	22.77	51.6	8.48	10.7	58.12	19.8	54.41	15.6
März 1	23.07	49.3	8.75	10.2	58.40	17.5	54.63	14.6
11	23.40	47.5	9.04	9.6	58.72	15.7	54.87	13.9
21	23.77	46.3	9.34	9.0	59.08	14.5	55.14	13.5
31	24.16	45.7	9.66	8.4	59.45	13.8	55.42	13.6
April 10	24.56	45.7	9.98	7.6	59.84	13.8	55.71	14.0
20	24.96	46.4	10.32	6.9	60.24	14.5	56.01	14.8
30	25.36	47.7	10.65	6.1	60.62	15.7	56.30	16.0
Mai 10	25.73	49.5	10.98	5.4	60.99	17.5	56.60	17.4
20	26.08	51.8	11.30	4.8	61.34	19.7	56.88	19.1
30	26.39	54.5	11.60	4.2	61.65	22.3	57.15	21.0
Juni 9	26.66	57.5	11.88	3.8	61.93	25.3	57.39	23.0
19	26.88	60.7	12.12	3.4	62.15	28.4	57.61	25.1
29	27.04	64.0	12.33	3.3	62.31	31.7	57.79	27.2
Juli 9	27.13	67.4	12.50	3.3	62.42	35.1	57.94	29.2
19	27.17	70.7	12.62	3.4	62.47	38.4	58.04	31.1
29	27.14	73.8	12.70	3.6	62.45	41.6	58.10	32.8
Aug. 8	27.05	76.8	12.72	4.0	62.38	44.6	58.11	34.4
18	26.90	79.5	12.70	4.5	62.25	47.4	58.08	35.8
28	26.69	81.9	12.63	5.0	62.06	49.8	58.01	36.9
Sept. 7	26.44	84.0	12.53	5.5	61.82	51.8	57.91	37.8
17	26.15	85.6	12.39	6.1	61.55	53.5	57.78	38.5
27	25.84	86.7	12.22	6.6	61.25	54.7	57.62	38.9
Okt. 7	25.50	87.3	12.05	7.0	60.93	55.4	57.45	39.0
17	25.16	87.5	11.88	7.3	60.61	55.6	57.28	38.9
27	24.83	87.1	11.71	7.6	60.29	55.3	57.11	38.5
Nov. 6	24.52	86.2	11.56	7.8	59.99	54.5	56.95	37.8
16	24.23	84.8	11.44	7.8	59.72	53.1	56.82	36.9
26	23.99	82.9	11.35	7.8	59.48	51.3	56.72	35.8
Dez. 6	23.79	80.5	11.30	7.7	59.28	49.0	56.65	34.4
16	23.64	77.7	11.30	7.5	59.14	46.3	56.62	32.9
26	23.56	74.6	11.34	7.3	59.06	43.3	56.63	31.2
36	23.54	71.3	11.43	7.0	59.03	40.1	56.68	29.4
Mittel Ort	24.72	67.8	10.25	6.2	60.07	35.8	56.01	27.5
	733)		736)		738)		741)	

1909	♂ Cygni. 2 ^m .8.		♂ Sagittae. 3 ^m .8.		♂ Aquilae. 1 ^m .		♂ Draconis. 3 ^m .8.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	19 ^h 42 ^m	44° 54'	19 ^h 43 ^m	18° 18'	19 ^h 46 ^m	8° 37'	19 ^h 48 ^m	70° 1'
Jan. 0	5.38 ¹	29.6 ³²	17.54 ⁵	30.6 ²²	18.33 ⁶	35.1 ¹⁷	25.42 ¹⁵	72.4 ³⁴
10	5.39 ⁸	26.4 ³⁵	17.59 ¹⁰	28.4 ²⁴	18.39 ¹¹	33.4 ¹⁹	25.27 ³	69.0 ³⁹
20	5.47 ¹²	22.9 ³²	17.69 ¹⁴	26.0 ²¹	18.50 ¹⁴	31.5 ¹⁶	25.24 ¹⁰	65.1 ³⁵
30	5.59 ¹⁷	19.7 ³⁰	17.83 ¹⁶	23.9 ²⁰	18.64 ¹⁶	29.9 ¹⁴	25.34 ²²	61.6 ³⁴
Febr. 9	5.76 ²²	16.7 ²⁶	17.99 ²⁰	21.9 ¹⁷	18.80 ²⁰	28.5 ¹³	25.56 ³³	58.2 ³¹
19	5.98 ²⁶	14.1 ²³	18.19 ²²	20.2 ¹⁴	19.00 ²²	27.2 ⁹	25.89 ⁴³	55.1 ²⁷
März 1	6.24 ²⁹	11.8 ¹⁸	18.41 ²⁵	18.8 ¹⁰	19.22 ²⁴	26.3 ⁷	26.32 ⁵¹	52.4 ²²
11	6.53 ³²	10.0 ¹²	18.66 ²⁷	17.8 ⁵	19.46 ²⁶	25.6 ²	26.83 ⁵⁸	50.2 ¹⁷
21	6.85 ³⁵	8.8 ⁶	18.93 ²⁸	17.3 ¹	19.72 ²⁸	25.4 ¹	27.41 ⁶³	48.5 ¹⁰
31	7.20 ³⁶	8.2 ⁰	19.21 ²⁹	17.2 ³	20.00 ²⁹	25.5 ⁴	28.04 ⁶⁶	47.5 ⁴
April 10	7.56 ³⁷	8.2 ⁶	19.50 ³⁰	17.5 ⁸	20.29 ³⁰	25.9 ⁹	28.70 ⁶⁷	47.1 ³
20	7.93 ³⁶	8.8 ¹²	19.80 ³¹	18.3 ¹²	20.59 ³⁰	26.8 ¹¹	29.37 ⁶⁶	47.4 ⁹
30	8.29 ³⁵	10.0 ¹⁷	20.11 ²⁹	19.5 ¹⁵	20.89 ²⁹	27.9 ¹⁴	30.03 ⁶²	48.3 ¹⁵
Mai 10	8.64 ³³	11.7 ²¹	20.40 ²⁹	21.0 ¹⁹	21.18 ²⁹	29.3 ¹⁷	30.65 ⁵⁷	49.8 ²⁰
20	8.97 ³⁰	13.8 ²⁶	20.69 ²⁷	22.9 ²¹	21.47 ²⁷	31.0 ¹⁹	31.22 ⁵¹	51.8 ²⁵
30	9.27 ²⁷	16.4 ²⁹	20.96 ²⁴	25.0 ²³	21.74 ²⁵	32.9 ¹⁹	31.73 ⁴³	54.3 ²⁹
Juni 9	9.54 ²³	19.3 ³⁰	21.20 ²²	27.3 ²³	21.99 ²²	34.8 ²⁰	32.16 ³³	57.2 ³²
19	9.77 ¹⁷	22.3 ³²	21.42 ¹⁸	29.6 ²⁴	22.21 ¹⁹	36.8 ²⁰	32.49 ²⁴	60.4 ³⁵
29	9.94 ¹³	25.5 ³³	21.60 ¹⁴	32.0 ²⁴	22.40 ¹⁵	38.8 ²⁰	32.73 ¹²	63.7 ³³
Juli 9	10.07 ⁷	28.8 ³²	21.74 ⁹	34.4 ²³	22.55 ¹¹	40.8 ¹⁸	32.85 ¹	67.2 ³⁵
19	10.14 ¹	32.0 ³¹	21.83 ⁵	36.7 ²¹	22.66 ⁶	42.6 ¹⁷	32.86 ⁹	70.7 ³⁵
29	10.15 ⁵	35.1 ²⁹	21.88 ¹	38.8 ²⁰	22.72 ²	44.3 ¹⁵	32.77 ²¹	74.2 ³³
Aug. 8	10.10 ¹⁰	38.0 ²⁷	21.89 ⁴	40.8 ¹⁷	22.74 ²	45.8 ¹⁴	32.56 ³⁰	77.5 ³¹
18	10.00 ¹⁵	40.7 ²⁴	21.85 ⁸	42.5 ¹⁵	22.72 ⁶	47.2 ¹¹	32.26 ⁴⁰	80.6 ²⁸
28	9.85 ²⁰	43.1 ²⁰	21.77 ¹¹	44.0 ¹²	22.66 ¹⁰	48.3 ⁸	31.86 ⁴⁹	83.4 ²⁵
Sept. 7	9.65 ²³	45.1 ¹⁷	21.66 ¹⁵	45.2 ⁹	22.56 ¹³	49.1 ⁶	31.37 ⁵⁵	85.9 ²¹
17	9.42 ²⁶	46.8 ¹²	21.51 ¹⁶	46.1 ⁷	22.43 ¹⁵	49.7 ⁴	30.82 ⁶¹	88.0 ¹⁷
27	9.16 ²⁷	48.0 ⁷	21.35 ¹⁸	46.8 ³	22.28 ¹⁶	50.1 ¹	30.21 ⁶⁶	89.7 ¹¹
Okt. 7	8.89 ²⁹	48.7 ³	21.17 ¹⁹	47.1 ¹	22.12 ¹⁷	50.2 ²	29.55 ⁶⁷	90.8 ⁷
17	8.60 ²⁸	49.0 ³	20.98 ¹⁷	47.0 ³	21.95 ¹⁷	50.1 ⁴	28.88 ⁶⁸	91.5 ¹
27	8.32 ²⁶	48.7 ⁷	20.81 ¹⁷	46.7 ⁷	21.78 ¹⁵	49.7 ⁶	28.20 ⁶⁶	91.6 ⁵
Nov. 6	8.06 ²⁴	48.0 ¹³	20.64 ¹⁴	46.0 ¹¹	21.63 ¹³	49.1 ⁸	27.54 ⁶²	91.1 ¹⁰
16	7.82 ²¹	46.7 ¹⁷	20.50 ¹²	44.9 ¹³	21.50 ¹⁰	48.3 ¹¹	26.92 ⁵⁸	90.1 ¹⁶
26	7.61 ¹⁷	45.0 ²²	20.38 ⁸	43.6 ¹⁶	21.40 ⁶	47.2 ¹³	26.34 ⁵⁰	88.5 ²¹
Dez. 6	7.44 ¹²	42.8 ²⁵	20.30 ⁴	42.0 ¹⁸	21.34 ⁴	45.9 ¹⁴	25.84 ⁴²	86.4 ²⁶
16	7.32 ⁷	40.3 ²⁹	20.26 ¹	40.2 ²¹	21.30 ¹	44.5 ¹⁶	25.42 ³²	83.8 ³⁰
26	7.25 ²	37.4 ³⁰	20.25 ⁴	38.1 ²¹	21.31 ⁵	42.9 ¹⁶	25.10 ²¹	80.8 ³²
36	7.23	34.4	20.29	36.0	21.36	41.3	24.89	77.6
Mittl. Ort	7.86	29.6	19.81	33.3	20.60	38.8	29.17	70.1
	742)		743)		745)		747)	

1909	ε Pavonis. 3 ^m .8.		β Aquilae. 3 ^m .7.		ψ Cygni. 5 ^m .0.		θ ¹ Sagittarii. 4 ^m .3	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. —
	19 ^h 49 ^m 73 ^s 8'		19 ^h 50 ^m 6 ^s 10'		19 ^h 53 ^m 52 ^s 11'		19 ^h 53 ^m 35 ^s 31'	
Jan. 0	58.12 ¹¹	75.6 ²⁹	48.32 ⁶	40.1 ¹⁶	14.02 ³	50.3 ³²	46.02 ⁹	31.2 ¹⁰
10	58.23 ¹¹	72.7 ²⁹	48.38 ⁶	38.5 ¹⁶	13.99 ³	47.1 ³²	46.11 ⁹	30.2 ¹¹
20	58.52 ¹⁵	69.4 ³³	48.48 ¹⁶	36.8 ¹⁷	14.03 ¹⁰	43.4 ³⁷	46.25 ¹⁴	29.1 ¹¹
30	58.91 ³⁰	66.5 ²⁹	48.62 ¹⁴	35.3 ¹⁵	14.13 ¹⁰	40.1 ³³	46.42 ¹⁷	28.0 ¹¹
Febr. 9	59.41 ⁵⁹	63.7 ²⁸	48.78 ¹⁶	34.0 ¹³	14.29 ¹⁶	37.0 ³¹	46.63 ²¹	26.9 ¹¹
19	60.03 ⁶²	61.0 ²⁷	48.97 ¹⁹	32.9 ¹¹	14.51 ²²	34.1 ²⁹	46.88 ²⁵	25.8 ¹¹
März 1	60.73 ⁷⁰	58.6 ²⁴	49.19 ²²	32.0 ⁹	14.78 ²⁷	31.6 ²⁵	47.16 ²⁸	24.7 ¹¹
11	61.51 ⁷⁸	56.5 ²¹	49.43 ²⁴	31.4 ⁶	15.09 ³¹	29.6 ²⁰	47.46 ³⁰	23.6 ¹¹
21	62.35 ⁸⁴	54.7 ¹⁸	49.69 ²⁶	31.2 ²	15.44 ³⁵	28.1 ¹⁵	47.78 ³²	22.5 ¹¹
31	63.24 ⁸⁹	53.3 ¹⁴	49.96 ²⁷	31.3 ¹	15.82 ³⁸	27.3 ⁸	48.13 ³⁵	21.4 ¹¹
April 10	64.17 ⁹³	52.2 ¹¹	50.25 ²⁹	31.8 ⁵	16.22 ⁴⁰	27.1 ²	48.48 ³⁵	20.4 ¹⁰
20	65.11 ⁹⁴	51.6 ⁶	50.55 ³⁰	31.8 ⁸	16.63 ⁴¹	27.1 ⁴	48.85 ³⁷	19.5 ⁹
30	66.04 ⁹³	51.3 ³	50.84 ²⁹	32.6 ¹¹	17.04 ⁴¹	27.5 ¹⁰	49.22 ³⁷	18.7 ⁸
Mai 10	66.96 ⁹²	51.5 ²	51.14 ³⁰	33.7 ¹⁴	17.44 ⁴⁰	28.5 ¹⁶	49.59 ³⁷	18.0 ⁷
20	67.84 ⁸⁸	52.1 ⁶	51.43 ²⁹	35.1 ¹⁶	17.81 ³⁷	30.1 ²¹	49.95 ³⁶	17.5 ⁵
30	68.67 ⁸³	53.2 ¹¹	51.70 ²⁷	36.7 ¹⁸	18.15 ³⁴	32.2 ²⁵	50.29 ³⁴	17.2 ³
Juni 9	69.42 ⁷⁵	54.6 ¹⁴	51.95 ²⁵	38.5 ¹⁹	18.45 ³⁰	34.7 ²⁹	50.61 ³²	17.0 ²
19	70.09 ⁶⁷	56.3 ¹⁷	52.18 ²³	40.4 ¹⁹	18.70 ²⁵	37.6 ³¹	50.90 ²⁹	17.1 ¹
29	70.64 ⁵⁵	58.4 ²¹	52.37 ¹⁹	42.3 ¹⁸	18.90 ²⁰	40.7 ³³	51.15 ²⁵	17.4 ³
Juli 9	71.08 ⁴⁴	60.7 ²³	52.52 ¹⁵	44.1 ¹⁸	19.04 ¹⁴	44.0 ³⁴	51.36 ²¹	17.9 ⁵
19	71.39 ³¹	63.3 ²⁶	52.52 ¹²	45.9 ¹⁷	19.11 ⁷	47.4 ³⁴	51.52 ¹⁶	18.5 ⁶
29	71.56 ¹⁷	65.9 ²⁶	52.64 ⁷	47.6 ¹⁶	19.12 ¹	50.8 ³³	51.52 ¹¹	18.5 ⁹
Aug. 8	71.59 ³	68.6 ²⁷	52.71 ³	49.2 ¹⁴	19.12 ⁶	54.1 ³¹	51.63 ⁵	19.4 ⁹
18	71.47 ¹²	71.2 ²⁶	52.74 ²	50.6 ¹²	19.06 ¹²	57.2 ²⁹	51.68 ¹	20.3 ¹⁰
28	71.22 ²⁵	73.6 ²⁴	52.72 ⁶	51.8 ⁹	18.94 ¹⁸	60.1 ²⁷	51.67 ⁵	21.3 ¹¹
Sept. 7	70.85 ³⁷	75.8 ²²	52.66 ⁹	52.7 ⁸	18.76 ²³	62.8 ²³	51.62 ¹⁰	22.4 ¹⁰
17	70.37 ⁴⁸	77.7 ¹⁹	52.57 ¹³	53.5 ⁵	18.53 ²⁷	65.1 ¹⁹	51.52 ¹⁴	23.4 ¹⁰
27	69.82 ⁵⁵	79.2 ¹⁵	52.44 ¹⁵	54.0 ³	18.26 ³⁰	67.0 ¹⁴	51.38 ¹⁷	24.4 ⁹
Okt. 7	69.20 ⁶²	80.2 ¹⁰	52.29 ¹⁶	54.3 ¹	17.96 ³³	68.4 ¹⁰	51.21 ¹⁰	25.3 ⁷
17	68.56 ⁶⁴	80.7 ⁵	52.13 ¹⁶	54.4 ²	17.63 ³⁴	69.4 ⁵	51.02 ²⁰	26.0 ⁵
27	67.92 ⁶⁴	80.6 ¹	51.97 ¹⁶	54.2 ³	17.29 ³³	69.9 ⁰	50.82 ¹⁹	26.5 ³
Nov. 6	67.31 ⁶¹	80.6 ⁶	51.81 ¹⁵	53.9 ⁶	16.96 ³³	69.9 ⁶	50.63 ¹⁸	26.8 ¹
16	66.76 ⁵⁵	80.0 ¹¹	51.66 ¹³	53.3 ⁹	16.63 ³⁰	69.3 ¹¹	50.45 ¹⁵	26.9 ¹
26	66.30 ⁴⁶	78.9 ¹⁶	51.53 ¹⁰	52.4 ¹⁰	16.33 ²⁷	68.2 ¹⁶	50.30 ¹²	26.8 ⁴
Dez. 6	65.95 ³⁵	77.3 ²⁰	51.43 ⁷	51.4 ¹²	16.06 ²³	66.6 ²¹	50.18 ⁷	26.4 ⁵
16	65.72 ²³	75.3 ²⁴	51.36 ³	50.2 ¹³	15.83 ¹⁷	64.5 ²⁵	50.11 ³	25.9 ⁷
26	65.63 ⁹	72.9 ²⁶	51.33 ⁰	48.9 ¹⁵	15.66 ¹²	62.0 ²⁹	50.08 ¹	25.2 ⁸
36	65.68 ⁵	70.3 ²⁹	51.33 ⁴	47.4 ¹⁵	15.54 ⁷	59.1 ³¹	50.09 ⁶	24.4 ⁹
Mittl. Ort	64.86	65.5	50.60	44.1	16.65	49.3	48.89	22.6
	748)		749)		750)		751)	

1909	γ Sagittae. 3 ^m .6.		δ Pavonis. 3 ^m .5.		θ Aquilae. 3 ^m .I.		ο ¹ seq. Cygni. 4 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -	AR.	Dekl. +
	19 ^h 54 ^m	19° 14'	19 ^h 59 ^m	66° 24'	20 ^h 6 ^m	1° 5'	20 ^h 10 ^m	46° 27'
Jan. 0	40.35	37.6	43.37	64.3	34.32	36.3	43.52	54.9
10	40.39	35.3	43.45	61.7	34.37	37.4	43.48	51.8
20	40.48	32.9	43.66	58.8	34.47	38.6	43.51	48.6
30	40.60	30.8	43.95	56.1	34.59	39.6	43.59	45.2
Febr. 9	40.76	28.8	44.32	53.5	34.75	40.4	43.72	42.2
19	40.94	27.0	44.76	51.0	34.93	41.1	43.91	39.4
März 1	41.16	25.6	45.28	48.7	35.13	41.6	44.14	36.9
11	41.39	24.6	45.84	46.6	35.37	41.9	44.41	34.9
21	41.65	24.0	46.46	44.8	35.62	41.8	44.72	33.5
31	41.93	23.8	47.11	43.3	35.89	41.5	45.05	32.6
April 10	42.23	24.1	47.80	42.1	36.17	40.9	45.41	32.3
20	42.53	24.8	48.49	41.2	36.46	40.0	45.79	32.6
30	42.83	26.0	49.19	40.8	36.77	38.8	46.16	33.5
Mai 10	43.13	27.5	49.88	40.7	37.07	37.5	46.53	35.0
20	43.43	29.3	50.56	41.1	37.37	36.0	46.89	36.9
30	43.70	31.4	51.19	41.8	37.65	34.4	47.22	39.4
Juni 9	43.95	33.7	51.79	42.9	37.91	32.8	47.52	42.1
19	44.18	36.1	52.31	44.4	38.16	31.2	47.78	45.1
29	44.37	38.6	52.77	46.1	38.37	29.6	48.00	48.3
Juli 9	44.52	41.0	53.13	48.1	38.54	28.1	48.16	51.6
19	44.63	43.4	53.41	50.4	38.67	26.7	48.26	54.9
29	44.69	45.7	53.58	52.8	38.76	25.5	48.30	58.1
Aug. 8	44.70	47.7	53.64	55.2	38.81	24.4	48.29	61.3
18	44.67	49.5	53.60	57.7	38.81	23.6	48.22	64.2
28	44.60	51.1	53.46	60.0	38.77	22.9	48.09	66.8
Sept. 7	44.50	52.4	53.23	62.2	38.69	22.4	47.92	69.1
17	44.36	53.4	52.92	64.0	38.58	22.1	47.71	71.1
27	44.20	54.1	52.55	65.6	38.45	22.0	47.46	72.6
Okt. 7	44.02	54.5	52.13	66.7	38.30	22.0	47.19	73.8
17	43.84	54.5	51.69	67.4	38.14	22.2	46.91	74.4
27	43.66	54.2	51.24	67.5	37.99	22.5	46.62	74.5
Nov. 6	43.49	53.6	50.82	67.2	37.84	23.0	46.35	74.1
16	43.34	52.7	50.44	66.4	37.71	23.7	46.09	73.2
26	43.22	51.4	50.13	65.1	37.61	24.5	45.85	71.8
Dez. 6	43.13	49.8	49.89	63.4	37.54	25.3	45.65	70.0
16	43.07	48.0	49.74	61.4	37.50	26.3	45.50	67.7
26	43.05	46.0	49.68	59.1	37.50	27.4	45.39	65.0
36	43.08	43.9	49.72	56.5	37.53	28.4	45.33	62.1
Mittl. Ort	42.60	40.0	48.42	53.4	36.61	31.0	45.97	53.7
	752)		754)		756)		757)	

1909	α Cephei. 4 ^m .3.		24 Vulpecul. 5 ^m .7.		α ² Capricorni. 3 ^m .6.		α Pavonis. 1 ^m .9.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. -
	20 ^h 11 ^m	77° 25'	20 ^h 12 ^m	24° 23'	20 ^h 12 ^m	12° 49'	20 ^h 18 ^m	57° 1'
Jan. 0	53.05	79.8	51.23	23.3	58.03	45.8	23.45	50.2
10	52.65	76.6	51.24	21.0	58.08	46.2	23.50	48.0
20	52.44	73.2	51.30	18.6	58.17	46.5	23.62	45.7
30	52.42	69.4	51.40	16.0	58.31	46.8	23.82	43.1
Febr. 9	52.60	66.0	51.53	13.8	58.46	47.0	24.07	40.7
19	52.96	62.8	51.70	11.8	58.65	47.0	24.38	38.4
März 1	53.50	59.9	51.90	10.1	58.86	46.9	24.74	36.2
11	54.19	57.4	52.13	8.9	59.10	46.6	25.14	34.1
21	55.00	55.4	52.39	8.0	59.36	46.1	25.57	32.2
31	55.91	54.0	52.67	7.6	59.64	45.4	26.05	30.5
April 10	56.89	53.3	52.96	7.8	59.93	44.5	26.55	29.1
20	57.89	53.2	53.27	8.4	60.24	43.5	27.06	27.9
30	58.88	53.7	53.58	9.4	60.55	42.4	27.59	27.0
Mai 10	59.85	54.9	53.89	10.9	60.86	41.2	28.12	26.5
20	60.74	56.6	54.19	12.8	61.18	39.9	28.63	26.3
30	61.54	58.7	54.48	14.9	61.47	38.6	29.13	26.4
Juni 9	62.22	61.4	54.75	17.3	61.76	37.4	29.60	26.9
19	62.76	64.4	54.99	19.9	62.01	36.3	30.03	27.8
29	63.15	67.6	55.19	22.5	62.24	35.3	30.40	28.9
Juli 9	63.38	71.0	55.36	25.2	62.43	34.4	30.72	30.4
19	63.43	74.5	55.48	27.8	62.58	33.6	30.97	32.1
29	63.32	78.0	55.55	30.4	62.69	33.1	31.14	34.0
Aug. 8	63.04	81.5	55.58	32.7	62.75	32.7	31.23	36.0
18	62.61	84.7	55.56	34.8	62.76	32.5	31.24	38.1
28	62.02	87.8	55.50	36.7	62.73	32.4	31.18	40.1
Sept. 7	61.30	90.6	55.40	38.3	62.66	32.5	31.05	42.1
17	60.46	93.1	55.26	39.6	62.56	32.6	30.85	43.9
27	59.52	95.1	55.10	40.6	62.43	32.9	30.60	45.4
Okt. 7	58.50	96.7	54.92	41.2	62.28	33.2	30.31	46.6
17	57.44	97.8	54.73	41.5	62.12	33.6	30.01	47.5
27	56.35	98.3	54.54	41.4	61.96	34.0	29.69	47.9
Nov. 6	55.25	98.4	54.36	40.9	61.82	34.5	29.39	47.9
16	54.19	97.8	54.20	40.0	61.69	34.9	29.12	47.5
26	53.19	96.6	54.06	38.8	61.58	35.4	28.88	46.6
Dez. 6	52.28	94.9	53.95	37.2	61.51	35.8	28.70	45.4
16	51.48	92.7	53.87	35.4	61.47	36.3	28.59	43.9
26	50.83	90.1	53.83	33.3	61.47	36.7	28.54	42.0
36	50.33	87.1	53.83	31.0	61.51	37.1	28.55	39.9
Mittl. Ort	58.17	75.8	53.45	25.0	60.41	38.7	27.27	37.8
	759)		760)		761)		764)	

1909	γ Cygni. 2 ^m .3.		θ Cephei. 4 ^m .I.		ε Delphini. 3 ^m .9.		α Jndi. 3 ^m .0.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	20 ^b 18 ^m	39 ^o 57'	20 ^b 28 ^m	62 ^o 40'	20 ^b 28 ^m	10 ^o 59'	20 ^b 31 ^m	47 ^o 36'
Jan. 0	55.39	54.6	0.42	80.5	49.75	32.7	7.02	46.2
10	55.37	51.7	0.26	77.4	49.77	31.0	7.06	44.6
20	55.40	48.8	0.19	74.1	49.83	29.3	7.15	42.8
30	55.48	45.5	0.21	70.3	49.93	27.5	7.31	40.7
Febr. 9	55.60	42.7	0.31	67.0	50.05	26.0	7.50	38.7
19	55.77	40.1	0.50	63.8	50.20	24.7	7.74	36.7
März 1	55.98	37.8	0.77	60.9	50.39	23.6	8.02	34.7
11	56.22	36.0	1.11	58.5	50.60	22.9	8.33	32.9
21	56.50	34.6	1.51	56.5	50.84	22.5	8.68	31.1
31	56.81	33.8	1.96	55.2	51.09	22.5	9.06	29.4
April 10	57.13	33.6	2.45	54.4	51.37	22.9	9.46	27.8
20	57.48	34.0	2.97	54.3	51.66	23.6	9.89	26.5
30	57.83	34.9	3.49	54.9	51.96	24.7	10.32	25.3
Mai 10	58.17	36.3	4.00	56.0	52.26	26.2	10.76	24.5
20	58.51	38.2	4.49	57.7	52.56	27.8	11.19	23.9
30	58.83	40.5	4.95	59.9	52.85	29.7	11.62	23.6
Juni 9	59.12	43.1	5.36	62.6	53.13	31.8	12.02	23.6
19	59.38	46.0	5.71	65.6	53.38	33.9	12.39	23.9
29	59.59	49.1	5.99	68.9	53.60	36.1	12.72	24.5
Juli 9	59.76	52.2	6.19	72.3	53.78	38.2	13.00	25.4
19	59.88	55.4	6.31	75.8	53.93	40.3	13.23	26.6
29	59.95	58.5	6.35	79.3	54.03	42.2	13.40	28.0
Aug. 8	59.96	61.5	6.31	82.8	54.09	44.0	13.50	29.5
18	59.92	64.2	6.18	86.2	54.10	45.6	13.54	31.2
28	59.83	66.7	5.98	89.3	54.07	46.9	13.52	32.9
Sept. 7	59.69	68.9	5.71	92.1	54.00	48.0	13.43	34.5
17	59.52	70.8	5.37	94.6	53.90	48.9	13.29	36.1
27	59.31	72.3	4.99	96.6	53.77	49.5	13.11	37.5
Okt. 7	59.08	73.3	4.57	98.3	53.62	49.8	12.90	38.7
17	58.84	73.9	4.12	99.4	53.46	49.9	12.66	39.6
27	58.59	74.1	3.65	100.0	53.30	49.7	12.42	40.2
Nov. 6	58.36	73.7	3.18	100.1	53.14	49.3	12.19	40.4
16	58.13	72.9	2.73	99.6	53.00	48.6	11.98	40.3
26	57.94	71.6	2.31	98.5	52.88	47.6	11.80	39.9
Dez. 6	57.77	69.9	1.93	96.8	52.78	46.5	11.66	39.1
16	57.64	67.8	1.60	94.7	52.72	45.1	11.56	38.0
26	57.55	65.3	1.34	92.1	52.69	43.6	11.52	36.7
36	57.51	62.6	1.14	89.2	52.69	42.0	11.53	35.1
Mittel. Ort	57.72	53.9	3.39	76.9	51.93	36.4	10.18	33.6
	765)		767)		768)		769)	

1909	73 Draconis. 5 ^m .3.		β Delphini. 3 ^m .5.		υ Capricorni. 5 ^m .5.		α Delphini. 3 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	20 ^h 32 ^m	74° 38'	20 ^h 33 ^m	14° 16'	20 ^h 34 ^m	18° 27'	20 ^h 35 ^m	15° 35'
Jan. 0	38.85	39.2	14.74	37.8	49.89	43.4	22.53	22.8
10	38.48 ³⁷	36.2 ³⁰	14.76 ²	36.0 ¹⁸	49.93 ⁴	43.4 ⁰	22.54 ¹	21.0 ¹⁸
20	38.25 ²³	32.9 ³³	14.80 ⁴	34.2 ¹⁸	50.00 ⁷	43.4 ⁰	22.58 ⁴	19.1 ¹⁹
30	38.18 ⁷	29.1 ³⁸	14.89 ⁹	32.2 ²⁰	50.11 ¹¹	43.2 ²	22.67 ⁹	17.0 ²¹
Febr. 9	38.27 ⁹	25.7 ³⁴	15.01 ¹²	30.5 ¹⁷	50.25 ¹⁴	43.0 ²	22.78 ¹¹	15.2 ¹⁸
19	38.52 ²⁵	22.4 ³³	15.16 ¹⁵	29.0 ¹⁵	50.42 ¹⁷	42.6 ⁴	22.93 ¹⁵	13.7 ¹⁵
März 1	38.91 ³⁹	19.4 ³⁰	15.34 ¹⁸	27.8 ¹²	50.62 ²⁰	42.0 ⁶	23.11 ¹⁸	12.5 ¹²
11	39.43 ⁵²	16.8 ²⁶	15.55 ²¹	26.9 ⁹	50.85 ²³	41.4 ⁶	23.31 ²⁰	11.5 ¹⁰
21	40.06 ⁶³	14.7 ²¹	15.78 ²³	26.4 ⁵	51.10 ²⁵	40.5 ⁹	23.54 ²³	10.9 ⁶
31	40.78 ⁷²	13.1 ¹⁶	16.04 ²⁶	26.3 ¹	51.37 ²⁷	39.6 ⁹	23.80 ²⁶	10.8 ¹
April 10	41.57 ⁷⁹	12.1 ¹⁰	16.32 ²⁸	26.6 ³	51.67 ³⁰	38.5 ¹¹	24.08 ²⁸	11.0 ²
20	42.40 ⁸³	11.7 ⁴	16.61 ²⁹	27.3 ⁷	51.97 ³⁰	37.3 ¹²	24.37 ²⁹	11.7 ⁷
30	43.24 ⁸⁴	12.0 ³	16.91 ³⁰	28.3 ¹⁰	52.29 ³²	36.1 ¹²	24.67 ³⁰	12.7 ¹⁰
Mai 10	44.07 ⁸³	13.0 ¹⁰	17.21 ³⁰	29.8 ¹⁵	52.62 ³³	34.8 ¹³	24.98 ³¹	14.2 ¹⁵
20	44.85 ⁷⁸	14.5 ¹⁵	17.52 ³¹	31.5 ¹⁷	52.94 ³²	33.5 ¹³	25.28 ³⁰	15.9 ¹⁷
30	45.57 ⁷²	16.5 ²⁰	17.81 ²⁹	33.4 ¹⁹	53.26 ³²	32.3 ¹²	25.57 ²⁹	17.9 ²⁰
Juni 9	46.20 ⁶³	19.0 ²⁵	18.09 ²⁸	35.6 ²²	53.56 ³⁰	32.3 ¹¹	25.85 ²⁸	17.9 ²¹
19	46.73 ⁵³	21.8 ²⁸	18.09 ²⁵	35.6 ²²	53.56 ²⁸	31.2 ¹⁰	25.85 ²⁶	20.0 ²³
29	47.13 ⁴⁰	25.0 ³²	18.34 ²²	37.8 ²³	53.84 ²⁵	30.2 ⁹	26.11 ²²	22.3 ²⁴
Juli 9	47.41 ²⁸	28.4 ³⁴	18.56 ¹⁹	40.1 ²³	54.09 ²²	29.3 ⁷	26.33 ¹⁹	24.7 ²³
19	47.56 ¹⁵	32.0 ³⁶	18.75 ¹⁵	42.4 ²²	54.31 ¹⁸	28.6 ⁴	26.52 ¹⁵	27.0 ²³
29	47.56 ⁰	35.5 ³⁵	18.90 ¹⁰	44.6 ²¹	54.49 ¹³	28.2 ³	26.67 ¹¹	29.3 ²²
Aug. 8	47.56 ¹⁴	39.1 ³⁶	19.00 ⁶	46.7 ²⁰	54.62 ⁸	27.9 ¹	26.78 ⁶	31.5 ²⁰
18	47.42 ²⁷	39.1 ³⁴	19.06 ¹	48.7 ¹⁷	54.70 ⁴	27.8 ⁰	26.84 ¹	33.5 ¹⁸
28	47.15 ⁴⁰	42.5 ³³	19.07 ³	50.4 ¹⁵	54.74 ¹	27.8 ²	26.85 ³	35.3 ¹⁶
Sept. 7	46.24 ⁵¹	45.8 ³⁰	19.04 ⁷	51.9 ¹³	54.73 ⁶	28.0 ⁴	26.82 ⁷	36.9 ¹⁴
17	46.24 ⁶²	48.8 ²⁷	18.97 ¹⁰	53.2 ¹⁰	54.67 ⁹	28.4 ⁴	26.75 ¹⁰	38.3 ¹¹
27	45.62 ⁷¹	51.5 ²²	18.87 ¹³	54.2 ⁸	54.58 ¹²	28.8 ⁵	26.65 ¹³	39.4 ⁸
Okt. 7	44.91 ⁷⁸	53.7 ¹⁹	18.74 ¹⁵	55.0 ⁴	54.46 ¹⁴	29.3 ⁵	26.52 ¹⁵	40.2 ⁵
17	44.13 ⁸⁴	55.6 ¹⁴	18.59 ¹⁶	55.4 ²	54.32 ¹⁵	29.8 ⁶	26.37 ¹⁷	40.7 ²
27	43.29 ⁸⁶	57.0 ⁸	18.43 ¹⁷	55.6 ¹	54.17 ¹⁶	30.4 ⁵	26.20 ¹⁷	40.9 ¹
Nov. 6	42.43 ⁸⁷	57.8 ³	18.26 ¹⁶	55.5 ⁴	54.01 ¹⁵	30.9 ⁴	26.03 ¹⁶	40.8 ⁴
16	41.56 ⁸⁶	58.1 ³	18.10 ¹⁵	55.1 ⁷	53.86 ¹⁴	31.3 ⁴	25.87 ¹⁵	40.4 ⁷
26	40.70 ⁸²	57.8 ⁸	17.95 ¹²	54.4 ¹⁰	53.72 ¹¹	31.7 ⁴	25.72 ¹³	39.7 ¹⁰
Dez. 6	39.88 ⁷⁶	57.0 ¹⁵	17.83 ¹⁰	53.4 ¹²	53.61 ⁸	32.1 ³	25.59 ¹⁰	38.7 ¹²
16	39.12 ⁶⁷	55.5 ²⁰	17.73 ⁷	52.2 ¹⁴	53.53 ⁶	32.4 ²	25.49 ⁸	37.5 ¹⁴
26	38.45 ⁵⁷	53.5 ²⁴	17.66 ⁴	50.8 ¹⁶	53.47 ²	32.6 ¹	25.41 ⁴	36.1 ¹⁷
36	37.88 ⁴⁵	51.1 ²⁹	17.62 ¹	49.2 ¹⁷	53.45 ²	32.7 ¹	25.37 ⁰	34.4 ¹⁸
	37.43	48.2	17.61	47.5	53.47	32.8	25.37	32.6
Mittel. Ort	43.14	34.3	16.91	41.1	52.27	34.5	24.68	25.8
	770)		771)		773)		774)	

1909	β Pavonis. 3 ^m .3.		α Cygni. 1 ^m .3.		ε Cygni. 2 ^m .4.		ε Aquarii. 3 ^m .6.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl.
	20 ^h 36 ^m	66° 31'	20 ^h 38 ^m	44° 56'	20 ^h 42 ^m	33° 37'	20 ^h 42 ^m	9° 49'
Jan. 0	41.41	65.5	17.41	79.0	29.53	44.5	42.80	53.5
10	41.40	62.9	17.35	76.2	29.50	42.0	42.83	54.0
20	41.49	60.2	17.34	73.2	29.51	39.3	42.88	54.4
30	41.69	57.0	17.39	69.9	29.57	36.4	42.98	54.8
Febr. 9	41.96	54.2	17.48	66.9	29.67	33.8	43.11	55.1
19	42.31	51.3	17.62	64.1	29.81	31.5	43.27	55.2
März 1	42.74	48.6	17.82	61.6	29.99	29.4	43.45	55.1
11	43.23	46.1	18.06	59.5	30.20	27.7	43.66	54.8
21	43.78	43.7	18.33	57.9	30.44	26.4	43.89	54.3
31	44.38	41.7	18.64	56.8	30.72	25.7	44.15	53.6
April 10	45.02	39.9	18.98	56.3	31.02	25.4	44.42	52.7
20	45.69	38.5	19.34	56.4	31.34	25.7	44.72	51.6
30	46.38	37.5	19.71	57.1	31.67	26.6	45.03	50.4
Mai 10	47.07	36.9	20.09	58.3	32.00	27.9	45.34	49.0
20	47.76	36.6	20.45	60.1	32.33	29.6	45.65	47.5
30	48.42	36.8	20.79	62.3	32.65	31.8	45.96	46.0
Juni 9	49.05	37.5	21.11	64.9	32.95	34.3	46.25	44.6
19	49.63	38.5	21.40	67.7	33.22	37.0	46.53	43.2
29	50.14	39.8	21.64	70.8	33.45	39.9	46.77	41.9
Juli 9	50.58	41.6	21.84	74.1	33.65	42.8	46.98	40.7
19	50.92	43.6	21.98	77.4	33.80	45.9	47.16	39.7
29	51.17	45.8	22.07	80.7	33.90	48.8	47.29	38.9
Aug. 8	51.31	48.2	22.10	83.9	33.95	51.6	47.37	38.3
18	51.35	50.7	22.07	86.9	33.95	54.3	47.41	37.8
28	51.28	53.2	21.98	89.7	33.90	56.8	47.41	37.5
Sept. 7	51.12	55.5	21.85	92.2	33.81	58.9	47.36	37.4
17	50.86	57.6	21.67	94.3	33.68	60.7	47.28	37.5
27	50.53	59.5	21.46	96.1	33.52	62.2	47.17	37.6
Okt. 7	50.14	61.0	21.22	97.5	33.33	63.4	47.04	37.9
17	49.71	62.1	20.96	98.4	33.13	64.1	46.89	38.3
27	49.26	62.7	20.69	98.9	32.92	64.3	46.74	38.7
Nov. 6	48.82	62.8	20.43	98.8	32.71	64.2	46.59	39.2
16	48.41	62.3	20.18	98.2	32.51	63.6	46.45	39.7
26	48.04	61.4	19.94	97.2	32.33	62.6	46.34	40.3
Dez. 6	47.73	60.0	19.74	95.7	32.18	61.2	46.26	40.9
16	47.50	58.2	19.57	93.7	32.06	59.4	46.20	41.5
26	47.35	56.0	19.44	91.3	31.98	57.2	46.17	42.0
36	47.30	53.5	19.36	88.6	31.93	54.9	46.18	42.5
Mittel. Ort	46.14	51.0	19.76	77.1	31.73	44.3	45.06	45.7

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1909	η Cephei. 3 ^m .5.		λ Cygni. 4 ^m .6.		β Jndi. 3 ^m .6.		32 Vulpecul. 5 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +
	20 ^h 43 ^m	61° 28'	20 ^h 43 ^m	36° 9'	20 ^h 47 ^m	58° 47'	20 ^h 50 ^m	27° 42'
Jan. 0	23.59	70.5	49.58	22.0	38.47	67.6	38.74	39.3
10	23.43	67.6	49.54	19.4	38.46	65.4	38.71	37.0
20	23.34	64.3	49.55	16.7	38.53	63.0	38.72	34.6
30	23.33	60.7	49.60	13.7	38.68	60.2	38.77	32.2
Febr. 9	23.40	57.3	49.70	11.0	38.88	57.7	38.87	29.7
19	23.56	54.2	49.83	8.5	39.14	55.1	39.00	27.5
März 1	23.79	51.3	50.01	6.3	39.46	52.5	39.16	25.7
11	24.10	48.8	50.23	4.5	39.84	50.1	39.36	24.2
21	24.47	46.8	50.48	3.1	40.26	47.8	39.59	23.1
31	24.88	45.3	50.76	2.3	40.71	45.7	39.85	22.5
April 10	25.34	44.4	51.06	2.0	41.21	43.9	40.14	22.4
20	25.83	44.2	51.38	2.2	41.73	42.3	40.44	22.7
30	26.34	44.6	51.72	2.9	42.27	41.0	40.75	23.5
Mai 10	26.84	45.6	52.06	4.2	42.82	40.1	41.08	24.8
20	27.33	47.2	52.40	6.0	43.36	39.6	41.40	26.6
30	27.79	49.3	52.72	8.1	43.90	39.4	41.71	28.7
Juni 9	28.21	51.8	53.02	10.6	44.41	39.5	42.00	31.0
19	28.57	54.8	53.30	13.4	44.88	40.2	42.27	33.6
29	28.88	58.0	53.54	16.3	45.31	41.2	42.51	36.3
Juli 9	29.11	61.4	53.73	19.3	45.68	42.5	42.71	39.1
19	29.26	65.0	53.88	22.4	45.98	44.1	42.87	41.9
29	29.34	68.6	53.98	25.4	46.21	46.0	42.98	44.6
Aug. 8	29.33	72.1	54.03	28.4	46.35	48.0	43.05	47.3
18	29.25	75.5	54.03	31.1	46.41	50.2	43.07	49.7
28	29.09	78.8	53.98	33.6	46.39	52.4	43.04	51.9
Sept. 7	28.86	81.8	53.88	35.9	46.30	54.6	42.96	53.9
17	28.57	84.4	53.74	37.8	46.13	56.6	42.85	55.5
27	28.22	86.6	53.57	39.4	45.90	58.4	42.71	56.9
Okt. 7	27.83	88.5	53.37	40.6	45.62	59.9	42.54	57.9
17	27.41	89.8	53.16	41.4	45.31	61.1	42.36	58.5
27	26.98	90.6	52.94	41.7	44.98	61.8	42.18	58.7
Nov. 6	26.54	90.9	52.72	41.6	44.66	62.1	41.99	58.6
16	26.11	90.6	52.52	41.0	44.36	62.0	41.81	58.0
26	25.70	89.8	52.33	40.0	44.08	61.4	41.65	57.1
Dez. 6	25.33	88.3	52.16	38.6	43.86	60.3	41.51	55.8
16	25.00	86.4	52.03	36.8	43.69	58.9	41.40	54.1
26	24.73	84.0	51.93	34.6	43.58	57.1	41.33	52.2
36	24.53	81.2	51.88	32.1	43.54	55.0	41.29	50.0
Mittl. Ort	26.45	66.3	51.80	21.3	42.22	52.6	40.88	39.9

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1909	v Cygni. 3 ^m .9.		ζ Microscopii. 5 ^m .4.		61 Cygni pr. 5 ^m .4.*		v Aquarii. 4 ^m .4.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. -
	20 ^h 53 ^m	40° 48'	20 ^h 57 ^m	38° 59'	21 ^h 2 ^m	38° 17'	21 ^h 4 ^m	11° 44'
Jan. 0	44.56	60.6	6.53	27.7	46.83	66.2	36.13	35.0
10	44.50	58.0	6.54	26.6	46.78	63.7	36.13	35.4
20	44.48	55.2	6.59	25.3	46.77	61.1	36.17	35.7
30	44.51	52.3	6.69	23.8	46.81	58.4	36.24	35.9
Febr. 9	44.59	49.2	6.84	22.1	46.90	55.5	36.35	36.0
19	44.72	46.5	7.02	20.4	47.03	53.1	36.49	35.9
März 1	44.89	44.1	7.23	18.7	47.21	50.9	36.65	35.6
11	45.10	42.1	7.48	16.9	47.42	49.1	36.84	35.1
21	45.35	40.6	7.76	15.2	47.67	47.7	37.06	34.5
31	45.63	39.5	8.07	13.4	47.96	46.8	37.31	33.6
April 10	45.95	39.0	8.41	11.7	48.27	46.5	37.57	32.6
20	46.29	39.0	8.77	10.2	48.61	46.7	37.86	31.4
30	46.64	39.6	9.15	8.7	48.96	47.4	38.16	30.0
Mai 10	46.99	40.8	9.53	7.5	49.32	48.7	38.48	28.5
20	47.35	42.5	9.92	6.4	49.67	50.5	38.80	27.0
30	47.69	44.6	10.31	5.5	50.01	52.7	39.11	25.5
Juni 9	48.01	47.0	10.68	5.0	50.34	55.2	39.42	24.0
19	48.30	49.8	11.03	4.7	50.64	58.1	39.71	22.6
29	48.55	52.8	11.35	4.7	50.90	61.1	39.97	21.3
Juli 9	48.76	55.9	11.62	4.9	51.13	64.3	40.20	20.1
19	48.92	59.1	11.86	5.5	51.30	67.5	40.39	19.1
29	49.03	62.3	12.04	6.3	51.42	70.7	40.55	18.3
Aug. 8	49.09	65.4	12.16	7.4	51.49	73.8	40.66	17.8
18	49.09	68.4	12.23	8.6	51.51	76.8	40.72	17.4
28	49.04	71.1	12.24	9.9	51.48	79.6	40.73	17.2
Sept. 7	48.94	73.6	12.20	11.3	51.40	82.1	40.71	17.2
17	48.80	75.8	12.11	12.7	51.28	84.2	40.64	17.3
27	48.62	77.6	11.98	14.0	51.12	86.1	40.55	17.6
Okt. 7	48.41	79.0	11.81	15.2	50.94	87.5	40.43	18.0
17	48.18	80.0	11.63	16.2	50.74	88.5	40.29	18.4
27	47.95	80.5	11.43	17.0	50.53	89.1	40.14	18.9
Nov. 6	47.71	80.6	11.24	17.5	50.31	89.3	40.00	19.4
16	47.48	80.2	11.06	17.8	50.11	88.9	39.87	20.0
26	47.27	79.3	10.90	17.8	49.92	88.1	39.75	20.5
Dez. 6	47.08	77.9	10.77	17.5	49.75	86.9	39.65	21.0
16	46.92	76.1	10.67	16.9	49.61	85.2	39.58	21.5
26	46.80	73.9	10.62	16.1	49.51	83.2	39.54	21.9
36	46.72	71.4	10.60	15.0	49.44	81.0	39.53	22.3
Mittl. Ort	46.80	58.9	9.23	14.3	49.03	65.0	38.32	26.1

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*) Die jährliche Parallaxe ist bereits angebracht.

1909	Br. 2777. 6 ^m .o.		ζ Cygni. 3 ^m .I.		α Equulei. 3 ^m .9.		α Cephei. 2 ^m .5.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	21 ^h 7 ^m	77° 45'	21 ^h 9 ^m	29° 50'	21 ^h 11 ^m	4° 52'	21 ^h 16 ^m	62° 11'
Jan. 0	15.39 ⁶¹	33.9 ²⁷	1.67 ⁵	71.7 ²³	14.46 ¹	10.7 ¹²	21.76 ²³	64.8 ²⁶
10	14.78 ⁴⁶	31.2 ³⁰	1.62 ¹	69.4 ²³	14.45 ²	9.5 ¹²	21.53 ¹⁵	62.2 ³⁰
20	14.32 ²⁸	28.2 ³³	1.61 ³	67.1 ²⁴	14.47 ⁵	8.3 ¹²	21.38 ⁸	59.2 ³²
30	14.04 ⁸	24.9 ³⁷	1.64 ⁷	64.7 ²⁶	14.52 ⁹	7.1 ¹²	21.30 ⁰	56.0 ³⁶
Febr. 9	13.96 ¹⁴	21.2 ³³	1.71 ¹¹	62.1 ²²	14.61 ¹¹	5.9 ⁹	21.30 ⁹	52.4 ³²
19	14.10 ³²	17.9 ³²	1.82 ¹⁴	59.9 ²⁰	14.72 ¹⁵	5.0 ⁶	21.39 ¹⁷	49.2 ³⁰
März 1	14.42 ⁵⁰	14.7 ²⁹	1.96 ¹⁹	57.9 ¹⁶	14.87 ¹⁸	4.4 ⁵	21.56 ²⁶	46.2 ²⁸
11	14.92 ⁶⁶	11.8 ²⁴	2.15 ²²	56.3 ¹³	15.05 ²¹	3.9 ¹	21.82 ³²	43.4 ²³
21	15.58 ⁸⁰	9.4 ²⁰	2.37 ²⁵	55.0 ⁸	15.26 ²³	3.8 ²	22.14 ³⁹	41.1 ¹⁸
31	16.38 ⁹⁰	7.4 ¹⁴	2.62 ²⁷	54.2 ³	15.49 ²⁵	4.0 ⁵	22.53 ⁴⁴	39.3 ¹²
April 10	17.28 ⁹⁸	6.0 ⁸	2.89 ³⁰	53.9 ²	15.74 ²⁸	4.5 ⁹	22.97 ⁴⁸	38.1 ⁶
20	18.26 ¹⁰²	5.2 ²	3.19 ³²	54.1 ⁸	16.02 ²⁹	5.4 ¹¹	23.45 ⁵¹	37.5 ⁰
30	19.28 ¹⁰³	5.0 ⁴	3.51 ³²	54.9 ¹²	16.31 ³⁰	6.5 ¹⁴	23.96 ⁵¹	37.5 ⁶
Mai 10	20.31 ¹⁰⁰	5.4 ¹¹	3.83 ³³	56.1 ¹⁶	16.61 ³¹	7.9 ¹⁷	24.47 ⁵²	38.1 ¹¹
20	21.31 ⁹⁴	6.5 ¹⁶	4.16 ³²	57.7 ²⁰	16.92 ³¹	9.6 ¹⁸	24.99 ⁵⁰	39.2 ¹⁸
30	22.25 ⁸⁶	8.1 ²¹	4.48 ³¹	59.7 ²³	17.23 ²⁹	11.4 ¹⁹	25.49 ⁴⁶	41.0 ²²
Juni 9	23.11 ⁷⁴	10.2 ²⁵	4.79 ²⁹	62.0 ²⁵	17.52 ²⁸	13.3 ²⁰	25.95 ⁴²	43.2 ²⁷
19	23.85 ⁶¹	12.7 ³⁰	5.08 ²⁶	64.5 ²⁸	17.80 ²⁵	15.3 ²⁰	26.37 ³⁶	45.9 ³⁰
29	24.46 ⁴⁷	15.7 ³²	5.34 ²²	67.3 ²⁸	18.05 ²³	17.3 ²⁰	26.73 ³⁰	48.9 ³³
Juli 9	24.93 ³¹	18.9 ³⁴	5.56 ¹⁷	70.1 ²⁹	18.28 ¹⁸	19.3 ¹⁸	27.03 ²²	52.2 ³⁵
19	25.24 ¹⁴	22.3 ³⁶	5.73 ¹³	73.0 ²⁸	18.46 ¹⁵	21.1 ¹⁷	27.25 ¹⁴	55.7 ³⁶
29	25.38 ³	25.9 ³⁷	5.86 ⁹	75.8 ²⁸	18.61 ¹⁰	22.8 ¹⁶	27.39 ⁷	59.3 ³⁶
Aug. 8	25.35 ²⁰	29.6 ³⁶	5.95 ³	78.6 ²⁶	18.71 ⁶	24.4 ¹⁴	27.46 ²	62.9 ³⁵
18	25.15 ³⁶	33.2 ³⁵	5.98 ¹	81.2 ²⁴	18.77 ¹	25.8 ¹¹	27.44 ¹⁰	66.4 ³⁴
28	24.79 ⁵¹	36.7 ³³	5.97 ⁶	83.6 ²¹	18.78 ²	26.9 ⁹	27.34 ¹⁷	69.8 ³²
Sept. 7	24.28 ⁶⁶	40.0 ³¹	5.91 ¹⁰	85.7 ¹⁹	18.76 ⁷	27.8 ⁷	27.17 ²⁴	73.0 ³⁰
17	23.62 ⁷⁸	43.1 ²⁷	5.81 ¹³	87.6 ¹⁵	18.69 ⁹	28.5 ⁵	26.93 ³⁰	76.0 ²⁶
27	22.84 ⁸⁸	45.8 ²⁴	5.68 ¹⁶	89.1 ¹²	18.60 ¹²	29.0 ³	26.63 ³⁵	78.6 ²²
Okt. 7	21.96 ⁹⁷	48.2 ¹⁹	5.52 ¹⁷	90.3 ⁸	18.48 ¹⁴	29.3 ⁰	26.28 ³⁹	80.8 ¹⁷
17	20.99 ¹⁰⁴	50.1 ¹⁴	5.35 ¹⁹	91.1 ⁴	18.34 ¹⁴	29.3 ²	25.89 ⁴²	82.5 ¹³
27	19.95 ¹⁰⁷	51.5 ⁹	5.16 ¹⁹	91.5 ¹	18.20 ¹⁵	29.1 ³	25.47 ⁴³	83.8 ⁷
Nov. 6	18.88 ¹⁰⁸	52.4 ³	4.97 ¹⁸	91.6 ⁴	18.05 ¹⁴	28.8 ⁵	25.04 ⁴³	84.5 ²
16	17.80 ¹⁰⁷	52.7 ²	4.79 ¹⁷	91.2 ⁸	17.91 ¹²	28.3 ⁷	24.61 ⁴³	84.7 ⁴
26	16.73 ¹⁰¹	52.5 ⁹	4.62 ¹⁵	90.4 ¹¹	17.79 ¹⁰	27.6 ⁹	24.18 ⁴⁰	84.3 ¹⁰
Dez. 6	15.72 ⁹⁴	51.6 ¹⁴	4.47 ¹²	89.3 ¹⁶	17.69 ⁸	26.7 ¹⁰	23.78 ³⁶	83.3 ¹⁶
16	14.78 ⁸³	50.2 ²⁰	4.35 ¹⁰	87.7 ¹⁸	17.61 ⁵	25.7 ¹¹	23.42 ³¹	81.7 ²⁰
26	13.95 ⁷¹	48.2 ²⁴	4.25 ⁶	85.9 ²¹	17.56 ³	24.6 ¹²	23.11 ²⁶	79.7 ²⁵
36	13.24	45.8	4.19	83.8	17.53	23.4	22.85	77.2
Minl. Ort	20.14	27.0	3.76	71.7	16.52	16.1	24.49	59.2
	795)		797)		800)		803)	

1909	γ Pegasi. 4 ^m .2.		γ Pavonis. 4 ^m .2.		ζ Capricorni. 3 ^m .8.		β Aquarii. 2 ^m .9.	
	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	21 ^h 17 ^m	19° 24'	21 ^h 18 ^m	65° 46'	21 ^h 21 ^m	22° 48'	21 ^h 26 ^m	5° 58'
Jan. 0	50.64	50.8	51.66	60.7	26.19	33.2	44.11	27.1
10	50.60	49.0	51.56	58.3	26.19	33.0	44.09	27.7
20	50.60	47.1	51.54	55.6	26.21	32.6	44.10	28.3
30	50.63	45.2	51.61	52.7	26.26	32.1	44.14	28.8
Febr. 9	50.71	43.2	51.78	49.4	26.36	31.4	44.22	29.2
19	50.81	41.5	52.02	46.3	26.49	30.6	44.33	29.4
März 1	50.95	40.0	52.33	43.3	26.65	29.6	44.47	29.4
11	51.12	38.8	52.72	40.4	26.84	28.5	44.64	29.2
21	51.32	38.0	53.18	37.6	27.06	27.3	44.84	28.8
31	51.55	37.6	53.69	35.0	27.31	25.9	45.06	28.1
April 10	51.81	37.7	54.25	32.6	27.58	24.4	45.31	27.2
20	52.09	38.1	54.85	30.6	27.87	22.9	45.58	26.0
30	52.39	39.0	55.49	29.0	28.18	21.3	45.88	24.7
Mai 10	52.70	40.3	56.15	27.7	28.51	19.7	46.18	23.2
20	53.01	41.9	56.82	26.8	28.85	18.2	46.49	21.5
30	53.32	43.8	57.48	26.4	29.19	16.8	46.81	19.8
Juni 9	53.62	46.0	58.13	26.4	29.52	15.6	47.12	18.1
19	53.91	48.4	58.74	26.8	29.83	14.5	47.41	16.4
29	54.16	50.8	59.30	27.7	30.13	13.6	47.68	14.8
Juli 9	54.39	53.3	59.79	29.0	30.39	12.9	47.92	13.2
19	54.58	55.9	60.21	30.7	30.61	12.4	48.12	11.9
29	54.72	58.3	60.54	32.7	30.79	12.2	48.29	10.7
Aug. 8	54.82	60.6	60.77	34.9	30.92	12.2	48.42	9.7
18	54.87	62.7	60.90	37.3	31.01	12.5	48.50	8.9
28	54.88	64.7	60.93	39.8	31.04	12.9	48.53	8.4
Sept. 7	54.85	66.4	60.86	42.3	31.03	13.5	48.53	8.0
17	54.78	67.8	60.69	44.6	30.98	14.2	48.48	7.9
27	54.67	69.0	60.44	46.8	30.89	15.0	48.40	7.9
Okt. 7	54.54	69.8	60.11	48.7	30.78	15.8	48.29	8.0
17	54.40	70.4	59.74	50.2	30.64	16.6	48.17	8.3
27	54.24	70.6	59.33	51.3	30.49	17.3	48.03	8.7
Nov. 6	54.08	70.5	58.91	51.9	30.34	17.9	47.89	9.2
16	53.92	70.1	58.49	51.9	30.19	18.5	47.76	9.8
26	53.78	69.4	58.10	51.5	30.06	18.9	47.64	10.4
Dez. 6	53.65	68.4	57.75	50.5	29.95	19.1	47.53	11.0
16	53.55	67.1	57.46	49.1	29.87	19.3	47.45	11.7
26	53.47	65.6	57.24	47.2	29.81	19.3	47.40	12.3
36	53.42	63.9	57.10	44.9	29.79	19.1	47.37	13.0
MITT. ORT	52.66	53.0	55.79	42.6	28.43	21.4	46.16	18.9

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1909	β Cephei. 3 ^m .I.		ν Octantis. 3 ^m .7.		74 Cygni. 5 ^m .I.		ε Pegasi. 2 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	21 ^h 27 ^m	70° 9'	21 ^h 31 ^m	77° 47'	21 ^h 33 ^m	39° 59'	21 ^h 39 ^m	9° 27'
Jan. 0	26.17	47.2	16.42	60.6	15.94	78.3	41.05	22.0
10	25.78 ³⁹	44.6 ²⁶	16.08 ³⁴	57.8 ²⁸	15.84 ¹⁰	76.0 ²³	41.01 ⁴	20.6 ¹⁴
20	25.49 ²⁹	41.7 ³²	15.90 ¹⁸	54.7 ³¹	15.78 ⁶	73.5 ²⁵	41.00 ¹	19.3 ¹³
30	25.31 ⁷	38.5 ³⁶	15.89 ¹⁶	51.4 ³³	15.76 ²	70.8 ²⁷	41.02 ²	18.0 ¹³
Febr. 9	25.24 ⁶	34.9 ³³	16.05 ³⁷	48.0 ³⁸	15.79 ³	68.1 ²⁹	41.07 ⁵	16.7 ¹²
19	25.30 ¹⁷	31.6 ³²	16.42 ⁴⁹	44.2 ³⁴	15.87 ¹²	65.2 ²⁴	41.16 ⁹	15.5 ⁹
März 1	25.47 ²⁹	28.4 ²⁹	16.91 ⁶⁴	40.8 ³⁴	15.99 ¹⁶	62.8 ²¹	41.28 ¹²	14.6 ⁷
11	25.76 ⁴⁰	25.5 ²⁶	17.55 ⁷⁸	37.5 ³²	16.15 ²¹	60.7 ¹⁷	41.43 ¹⁵	13.9 ³
21	26.16 ⁴⁹	22.9 ²⁰	18.33 ⁸⁹	34.3 ²⁸	16.36 ²⁵	59.0 ¹³	41.61 ¹⁸	13.6 ⁰
31	26.65 ⁵⁶	20.9 ¹⁵	19.22 ¹⁰⁰	31.5 ²⁵	16.61 ²⁹	57.7 ⁸	41.82 ²¹	13.6 ⁴
April 10	27.21 ⁶²	19.4 ¹⁰	20.22 ¹⁰⁸	29.0 ²¹	16.90 ³¹	56.9 ²	42.06 ²⁴	14.0 ⁷
20	27.83 ⁶⁶	18.4 ³	21.30 ¹¹⁵	26.9 ¹⁸	17.21 ³⁴	56.7 ⁴	42.33 ²⁷	14.7 ¹⁰
30	28.49 ⁶⁷	18.1 ⁴	22.45 ¹¹⁹	25.1 ¹²	17.55 ³⁶	57.1 ⁸	42.61 ²⁸	15.7 ¹⁴
Mai 10	29.16 ⁶⁸	18.5 ⁹	23.64 ¹²¹	23.9 ⁸	17.91 ³⁵	57.9 ¹⁴	42.91 ³⁰	17.1 ¹⁶
20	29.84 ⁶⁵	19.4 ¹⁵	24.85 ¹²⁰	23.1 ³	18.26 ³⁶	59.3 ¹⁸	43.22 ³¹	18.7 ¹⁸
30	30.49 ⁶¹	20.9 ²¹	26.05 ¹¹⁷	22.8 ¹	18.62 ³⁴	61.1 ²²	43.53 ³¹	20.5 ²¹
Juni 9	31.10 ⁵⁵	23.0 ²⁵	27.22 ¹¹⁰	22.9 ⁷	18.96 ³²	63.3 ²⁶	43.84 ²⁹	22.6 ²¹
19	31.65 ⁴⁷	25.5 ²⁹	28.32 ¹⁰²	23.6 ¹²	19.28 ²⁹	65.9 ²⁸	44.13 ²⁷	24.7 ²²
29	32.12 ³⁸	28.4 ³²	29.34 ⁹¹	24.8 ¹⁶	19.57 ²⁵	68.7 ³⁰	44.40 ²⁴	26.9 ²²
Juli 9	32.50 ²⁹	31.6 ³⁴	30.25 ⁷⁶	26.4 ²¹	19.82 ²¹	71.7 ³¹	44.64 ²¹	29.1 ²¹
19	32.79 ¹⁹	35.0 ³⁶	31.01 ⁶¹	28.5 ²³	20.03 ¹⁶	74.8 ³²	44.85 ¹⁷	31.2 ²⁰
29	32.98 ⁸	38.6 ³⁷	31.62 ⁴³	30.8 ²⁶	20.19 ¹¹	78.0 ³²	45.02 ¹²	33.2 ¹⁸
Aug. 8	33.06 ³	42.3 ³⁶	32.05 ²⁴	33.4 ²⁸	20.30 ⁵	81.2 ³⁰	45.14 ⁹	35.0 ¹⁷
18	33.03 ¹³	45.9 ³⁶	32.29 ⁵	36.2 ²⁹	20.35 ⁰	84.2 ²⁹	45.23 ⁴	36.7 ¹⁵
28	32.90 ²⁴	49.5 ³⁴	32.34 ¹⁵	39.1 ²⁹	20.35 ⁵	87.1 ²⁷	45.27 ¹	38.2 ¹²
Sept. 7	32.66 ³³	52.9 ³²	32.19 ³³	42.0 ²⁷	20.30 ⁹	89.8 ²⁴	45.26 ⁴	39.4 ¹⁰
17	32.33 ⁴¹	56.1 ²⁸	31.86 ⁵⁰	44.7 ²⁵	20.21 ¹³	92.2 ²¹	45.22 ⁷	40.4 ⁸
27	31.92 ⁴⁸	58.9 ²⁵	31.36 ⁶⁴	47.2 ²¹	20.08 ¹⁷	94.3 ¹⁷	45.15 ¹¹	41.2 ⁵
Okt. 7	31.44 ⁵⁵	61.4 ²¹	30.72 ⁷⁵	49.3 ¹⁷	19.91 ¹⁹	96.0 ¹⁴	45.04 ¹²	41.7 ³
17	30.89 ⁵⁹	63.5 ¹⁶	29.97 ⁸⁵	51.0 ¹²	19.72 ²¹	97.4 ⁹	44.92 ¹³	42.0 ⁰
27	30.30 ⁶¹	65.1 ¹⁰	29.12 ⁸⁸	52.2 ⁷	19.51 ²²	98.3 ⁵	44.79 ¹⁴	42.0 ²
Nov. 6	29.69 ⁶³	66.1 ⁵	28.24 ⁹⁰	52.9 ¹	19.29 ²²	98.8 ⁵	44.65 ¹⁴	41.8 ⁴
16	29.06 ⁶²	66.6 ¹	27.34 ⁸⁶	53.0 ⁶	19.07 ²¹	98.8 ⁰	44.51 ¹³	41.4 ⁶
26	28.44 ⁶⁰	66.5 ⁷	26.48 ⁷⁹	52.4 ¹¹	18.86 ¹⁹	98.3 ⁹	44.38 ¹²	40.8 ⁸
Dez. 6	27.84 ⁵⁶	65.8 ¹²	25.69 ⁷⁰	51.3 ¹⁷	18.67 ¹⁸	97.4 ¹⁴	44.26 ¹⁰	40.0 ¹⁰
16	27.28 ⁵⁰	64.6 ¹⁸	24.99 ⁵⁷	49.6 ²¹	18.49 ¹⁴	96.0 ¹⁸	44.16 ⁷	39.0 ¹²
26	26.78 ⁴²	62.8 ²⁴	24.42 ⁴²	47.5 ²⁶	18.35 ¹²	94.2 ²¹	44.09 ⁵	37.8 ¹²
36	26.36	60.4	24.00	44.9	18.23	92.1	44.04	36.6
Mittl. Ort	29.41	40.0	23.23	40.9	18.02	75.7	42.99	26.6

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1909	♄ Capricorni. 2 ^m .8.		π ³ Cygni. 4 ^m .3.		γ Gruis. 3 ^m .0.		16 Pegasi. 5 ^m .2.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	21 ^h 41 ^m	16° 32'	21 ^h 43 ^m	48° 52'	21 ^h 48 ^m	37° 47'	21 ^h 48 ^m	25° 29'
Jan. 0	59.12	37.5	23.64	81.9	22.95	51.8	53.33	47.4
10	59.09	37.6	23.49	79.5	22.90	50.9	53.26	45.6
20	59.09	37.6	23.39	76.9	22.89	49.7	53.22	43.6
30	59.12	37.4	23.33	74.1	22.91	48.3	53.21	41.5
Febr. 9	59.19	37.1	23.32	71.1	22.98	46.7	53.24	39.5
19	59.30	36.6	23.38	67.9	23.10	44.7	53.31	37.4
März 1	59.43	35.9	23.49	65.2	23.24	42.8	53.41	35.6
11	59.59	35.1	23.66	62.7	23.43	40.8	53.55	34.1
21	59.78	34.1	23.88	60.6	23.65	38.7	53.73	33.0
31	60.00	32.9	24.14	59.0	23.91	36.6	53.94	32.2
April 10	60.25	31.5	24.46	57.9	24.20	34.5	54.18	31.9
20	60.53	30.0	24.80	57.3	24.52	32.4	54.46	32.0
30	60.83	28.5	25.18	57.3	24.87	30.5	54.75	32.6
Mai 10	61.14	26.8	25.57	57.9	25.23	28.7	55.07	33.7
20	61.46	25.1	25.97	59.1	25.61	27.1	55.39	35.1
30	61.79	23.5	26.37	60.7	26.00	25.7	55.71	36.9
Juni 9	62.11	21.9	26.75	62.8	26.38	24.6	56.04	39.1
19	62.43	20.5	27.11	65.3	26.75	23.8	56.34	41.4
29	62.72	19.2	27.43	68.2	27.09	23.3	56.62	44.0
Juli 9	62.98	18.2	27.72	71.3	27.41	23.1	56.87	46.7
19	63.22	17.3	27.95	74.6	27.69	23.3	57.09	49.4
29	63.41	16.7	28.12	77.9	27.92	23.5	57.26	52.1
Aug. 8	63.55	16.3	28.24	81.3	28.11	24.6	57.39	54.7
18	63.65	16.1	28.30	84.7	28.23	25.6	57.48	57.2
28	63.71	16.1	28.30	87.9	28.30	26.9	57.52	59.5
Sept. 7	63.73	16.4	28.24	90.9	28.32	28.3	57.51	61.6
17	63.70	16.8	28.13	93.7	28.29	29.8	57.46	63.5
27	63.62	17.3	27.98	96.2	28.21	31.3	57.37	65.1
Okt. 7	63.52	17.9	27.79	98.3	28.08	32.7	57.26	66.3
17	63.40	18.6	27.56	100.0	27.94	34.1	57.12	67.3
27	63.27	19.3	27.31	101.3	27.77	35.2	56.97	67.9
Nov. 6	63.13	20.0	27.05	102.1	27.59	36.2	56.81	68.1
16	63.00	20.6	26.78	102.4	27.41	36.8	56.64	68.0
26	62.87	21.1	26.51	102.2	27.24	37.2	56.49	67.5
Dez. 6	62.76	21.6	26.26	101.4	27.09	37.3	56.34	66.7
16	62.67	22.0	26.03	100.1	26.96	37.0	56.21	65.5
26	62.60	22.3	25.83	98.4	26.87	36.5	56.11	64.1
36	62.57	22.5	25.67	96.3	26.80	35.7	56.02	62.4
Mittl. Ort	61.18	26.2	25.82	77.3	25.29	35.6	55.25	47.9

819)

821)

822)

823)

1909	α Aquarii. 2 ^m .9.		ι Aquarii. 4 ^m .2.		20 Cephei. 5 ^m .7.		α Gruis. 1 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	22 ^h 1 ^m	0° 45'	22 ^h 1 ^m	14° 18'	22 ^h 2 ^m	62° 20'	22 ^h 2 ^m	47° 23'
Jan. 0	4.76	51.7	29.49	52.5	12.05	36.8	27.65	86.4
10	4.71	52.5	29.45	52.7	11.75	34.6	27.57	85.1
20	4.69	53.3	29.43	52.8	11.52	31.9	27.53	83.4
30	4.70	54.1	29.44	52.8	11.35	29.0	27.53	81.5
Febr. 9	4.74	54.7	29.49	52.6	11.26	25.9	27.58	79.4
19	4.81	55.2	29.57	52.2	11.26	22.5	27.68	76.8
März 1	4.91	55.4	29.68	51.6	11.34	19.4	27.83	74.3
11	5.04	55.5	29.82	50.8	11.50	16.5	28.01	71.8
21	5.21	55.2	29.99	49.8	11.75	13.9	28.24	69.2
31	5.41	54.7	30.19	48.6	12.07	11.8	28.52	66.7
April 10	5.63	53.9	30.42	47.3	12.45	10.1	28.84	64.2
20	5.88	52.9	30.68	45.8	12.89	9.0	29.19	61.9
30	6.15	51.6	30.96	44.1	13.38	8.5	29.57	59.7
Mai 10	6.45	50.1	31.27	42.4	13.89	8.6	29.98	57.8
20	6.76	48.4	31.59	40.7	14.42	9.2	30.41	56.1
30	7.07	46.5	31.91	38.9	14.94	10.5	30.84	54.8
Juni 9	7.38	44.6	32.24	37.2	15.45	12.3	31.28	53.8
19	7.69	42.7	32.55	35.6	15.92	14.6	31.70	53.1
29	7.97	40.8	32.85	34.2	16.35	17.3	32.10	52.9
Juli 9	8.23	39.0	33.12	32.9	16.73	20.3	32.47	53.0
19	8.46	37.3	33.36	31.8	17.04	23.6	32.80	53.5
29	8.65	35.8	33.57	30.9	17.28	27.1	33.08	54.4
Aug. 8	8.80	34.4	33.73	30.3	17.44	30.7	33.30	55.6
18	8.91	33.2	33.85	30.0	17.52	34.3	33.46	57.1
28	8.98	32.3	33.92	29.9	17.53	37.9	33.55	58.8
Sept. 7	9.00	31.6	33.95	30.0	17.46	41.3	33.58	60.7
17	8.99	31.1	33.94	30.2	17.31	44.6	33.56	62.7
27	8.93	30.8	33.89	30.6	17.09	47.7	33.47	64.6
Okt. 7	8.85	30.7	33.81	31.2	16.82	50.4	33.34	66.4
17	8.75	30.8	33.70	31.8	16.50	52.7	33.17	68.1
27	8.63	31.1	33.58	32.5	16.14	54.5	32.97	69.6
Nov. 6	8.50	31.5	33.45	33.2	15.75	55.9	32.75	70.7
16	8.37	32.0	33.32	33.9	15.34	56.7	32.54	71.5
26	8.25	32.6	33.19	34.5	14.92	57.0	32.32	71.9
Dez. 6	8.14	33.3	33.08	35.0	14.51	56.7	32.13	71.8
16	8.04	34.0	32.98	35.5	14.13	55.8	31.96	71.4
26	7.97	34.8	32.91	35.9	13.77	54.3	31.82	70.6
36	7.91	35.6	32.86	36.1	13.45	52.4	31.71	69.4
Mittl. Ort	6.63	44.2	31.44	41.3	14.51	29.2	30.14	67.7

827)

828)

830)

829)

1909	θ Pegasi. 3 ^m .6.		π Pegasi. 4 ^m .3.		ζ Cephei. 3 ^m .4.		24 Cephei. 4 ^m .8.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	22 ^h 5 ^m	5° 44'	22 ^h 5 ^m	32° 43'	22 ^h 7 ^m	57° 44'	22 ^h 7 ^m	71° 53'
Jan. 0	34.74	53.6	54.79	54.5	39.46	75.7	60.55	43.1
10	34.69	52.5	54.69	52.6	39.22	73.5	60.04	41.0
20	34.66	51.4	54.62	50.5	39.03	71.0	59.62	38.5
30	34.66	50.3	54.58	48.3	38.89	68.2	59.31	35.6
Febr. 9	34.69	49.3	54.58	46.0	38.82	65.2	59.11	32.5
19	34.75	48.4	54.62	43.5	38.81	61.9	59.03	28.9
März 1	34.85	47.8	54.70	41.4	38.88	58.8	59.09	25.7
11	34.97	47.4	54.83	39.6	39.02	56.1	59.29	22.6
21	35.13	47.3	54.99	38.0	39.24	53.6	59.60	19.8
31	35.32	47.5	55.20	36.9	39.52	51.5	60.03	17.4
April 10	35.54	48.0	55.44	36.2	39.86	49.9	60.56	15.5
20	35.79	48.8	55.72	36.0	40.25	48.9	61.18	14.1
30	36.07	49.9	56.02	36.3	40.67	48.4	61.85	13.3
Mai 10	36.36	51.3	56.35	37.1	41.13	48.6	62.57	13.1
20	36.67	52.9	56.69	38.3	41.60	49.3	63.31	13.5
30	36.98	54.7	57.03	40.0	42.07	50.5	64.04	14.5
Juni 9	37.29	56.7	57.37	42.0	42.53	52.3	64.75	16.1
19	37.59	58.8	57.69	44.4	42.96	54.6	65.41	18.1
29	37.88	60.9	57.99	47.0	43.36	57.3	66.00	20.7
Juli 9	38.14	62.9	58.27	49.8	43.71	60.3	66.51	23.6
19	38.37	64.9	58.50	52.7	44.01	63.6	66.94	26.9
29	38.57	66.8	58.69	55.6	44.24	67.0	67.25	30.4
Aug. 8	38.72	68.5	58.84	58.5	44.41	70.5	67.46	34.0
18	38.83	70.0	58.94	61.3	44.50	74.1	67.56	37.7
28	38.89	71.3	58.99	64.0	44.53	77.6	67.54	41.4
Sept. 7	38.92	72.4	58.99	66.5	44.48	81.0	67.41	45.0
17	38.91	73.3	58.95	68.8	44.38	84.2	67.17	48.5
27	38.86	74.0	58.87	70.8	44.21	87.1	66.84	51.7
Okt. 7	38.78	74.4	58.76	72.5	43.99	89.7	66.41	54.7
17	38.68	74.6	58.62	73.8	43.73	92.0	65.91	57.3
27	38.56	74.6	58.46	74.8	43.43	93.8	65.35	59.4
Nov. 6	38.43	74.4	58.29	75.3	43.11	95.1	64.73	61.1
16	38.30	74.0	58.11	75.5	42.77	95.9	64.08	62.2
26	38.17	73.4	57.94	75.3	42.43	96.1	63.41	62.8
Dez. 6	38.06	72.7	57.77	74.6	42.09	95.8	62.75	62.7
16	37.96	71.8	57.62	73.6	41.77	94.9	62.11	62.1
26	37.87	70.9	57.49	72.2	41.47	93.5	61.50	60.8
36	37.81	69.9	57.37	70.4	41.21	91.6	60.96	59.0
Mittl. Ort	36.58	59.3	56.67	52.9	41.72	68.7	63.62	34.1

834)

835)

836)

837)

1909	♁ Aquarii. 4 ^m .2.		♋ Tucanae. 2 ^m .8.		γ Aquarii. 3 ^m .7.		3 Lacertae. 4 ^m .5.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +
	22 ^h 12 ^m 8° 13'		22 ^h 12 ^m 60° 42'		22 ^h 16 ^m 1° 50'		22 ^h 19 ^m 51° 46'	
Jan. 0	0.12 82.0		13.54 69.9		55.59 54.5		56.72 28.5	
10	0.07 5 82.5 5		13.37 17 68.1 18		55.53 6 55.2 7		56.52 20 26.5 24	
20	0.04 3 82.9 4		13.27 10 65.8 23		55.50 0 55.9 7		56.35 17 24.1 27	
30	0.04 0 83.1 2		13.23 4 63.2 27		55.50 2 56.6 5		56.23 12 21.4 28	
Febr. 9	0.07 3 83.3 0		13.25 8 60.5 30		55.52 5 57.1 4		56.17 6 18.6 29	
19	0.13 10 83.3 3		13.33 17 57.5 34		55.57 9 57.5 1		56.16 1 15.7 31	
März 1	0.23 13 83.0 4		13.50 22 54.1 31		55.66 12 57.6 0		56.22 6 12.6 26	
11	0.36 15 82.6 7		13.72 28 51.0 30		55.78 15 57.6 3		56.33 18 10.0 24	
21	0.51 19 81.9 9		14.00 34 48.0 30		55.93 18 57.3 6		56.51 24 7.6 19	
31	0.70 22 81.0 11		14.34 40 45.0 28		56.11 21 56.7 9		56.75 29 5.7 15	
April 10	0.92 25 79.9 13		14.74 45 42.2 27		56.32 25 55.8 11		57.04 33 4.2 10	
20	1.17 28 78.6 15		15.19 49 39.5 23		56.57 27 54.7 13		57.37 37 3.2 4	
30	1.45 29 77.1 17		15.68 53 37.2 20		56.84 29 53.4 16		57.74 40 2.8 2	
Mai 10	1.74 31 75.4 18		16.21 55 35.2 17		57.13 30 51.8 17		58.14 42 3.0 7	
20	2.05 32 73.6 18		16.76 56 33.5 12		57.43 32 50.1 18		58.56 43 3.7 12	
30	2.37 32 71.8 19		17.32 57 32.3 9		57.75 31 48.3 20		58.99 42 4.9 18	
Juni 9	2.69 31 69.9 18		17.89 55 31.4 3		58.06 31 46.3 19		59.41 40 6.7 22	
19	3.00 30 68.1 16		18.44 53 31.1 1		58.37 29 44.4 19		59.81 37 8.9 26	
29	3.30 27 66.5 16		18.97 48 31.2 6		58.66 27 42.5 18		60.18 33 11.5 29	
Juli 9	3.57 24 64.9 14		19.45 44 31.8 10		58.93 24 40.7 17		60.51 29 14.4 32	
19	3.81 21 63.5 12		19.89 37 32.8 14		59.17 21 39.0 16		60.80 24 17.6 33	
29	4.02 17 62.3 10		20.26 29 34.2 18		59.38 17 37.4 13		61.04 17 20.9 34	
Aug. 8	4.19 12 61.3 7		20.55 22 36.0 20		59.55 12 36.1 11		61.21 12 24.3 34	
18	4.31 8 60.6 5		20.77 13 38.0 23		59.67 8 35.0 9		61.33 5 27.7 34	
28	4.39 4 60.1 3		20.90 4 40.3 24		59.75 4 34.1 7		61.38 0 31.1 33	
Sept. 7	4.43 1 59.8 1		20.94 4 42.7 25		59.79 0 33.4 4		61.38 6 34.4 31	
17	4.42 4 59.7 1		20.90 12 45.2 24		59.79 3 33.0 2		61.32 12 37.5 28	
27	4.38 7 59.8 3		20.78 19 47.6 22		59.76 7 32.8 1		61.20 16 40.3 25	
Okt. 7	4.31 10 60.1 4		20.59 24 49.8 20		59.69 10 32.7 1		61.04 20 42.8 21	
17	4.21 11 60.5 5		20.35 30 51.8 17		59.59 11 32.8 3		60.84 23 44.9 17	
27	4.10 12 61.0 6		20.05 31 53.5 13		59.48 12 33.1 4		60.61 26 46.6 13	
Nov. 6	3.98 13 61.6 6		19.74 34 54.8 8		59.36 12 33.5 5		60.35 26 47.9 8	
16	3.85 12 62.2 6		19.40 33 55.6 3		59.24 12 34.0 6		60.09 28 48.7 3	
26	3.73 11 62.8 6		19.07 31 55.9 3		59.12 11 34.6 7		59.81 27 49.0 3	
Dez. 6	3.62 10 63.4 7		18.76 28 55.6 7		59.01 10 35.3 7		59.54 26 48.7 8	
16	3.52 8 64.1 5		18.48 25 54.9 12		58.91 8 36.0 8		59.28 25 47.9 13	
26	3.44 6 64.6 5		18.23 19 53.7 17		58.83 7 36.8 7		59.03 22 46.6 17	
36	3.38 6 65.1 5		18.04 17 52.0 17		58.76 7 37.5 7		58.81 22 44.9 17	
Mittl. Ort	1.97 72.1		16.51 48.7		57.39 46.4		58.76 22.2	
	840)		841)		842)		844)	

1909	7 Lacertae. 3 ^m .8.		7 Aquarii. 3 ^m .9.		10 Lacertae. 4 ^m .9.		ζ Pegasi. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +
	22 ^h 27 ^m	49° 48'	22 ^h 30 ^m	0° 34'	22 ^h 35 ^m	38° 34'	22 ^h 36 ^m	10° 21'
Jan. 0	30.45 ¹⁹	57.8 ¹⁹	39.11 ⁶	80.4 ⁸	8.78 ¹⁴	38.6 ¹⁸	53.70 ⁷	17.3 ¹¹
10	30.26 ¹⁶	55.9 ²³	39.05 ⁴	81.2 ⁷	8.64 ¹¹	36.8 ²⁰	53.63 ⁶	16.2 ¹²
20	30.10 ¹²	53.6 ²⁵	39.01 ²	81.9 ⁷	8.53 ⁸	34.8 ²²	53.57 ³	15.0 ¹²
30	29.98 ⁷	51.1 ²⁷	38.99 ⁰	82.6 ⁶	8.45 ⁵	32.6 ²⁴	53.54 ¹	13.8 ¹²
Febr. 9	29.91 ²	48.4 ²⁸	38.99 ⁴	83.2 ⁴	8.40 ¹	30.2 ²⁴	53.53 ³	12.6 ¹²
19	29.89 ⁵	45.6 ³¹	39.03 ⁸	83.6 ²	8.39 ²⁵	27.8 ²⁶	53.56 ⁶	11.6 ¹²
März 1	29.94 ¹¹	42.5 ²⁶	39.11 ¹⁰	83.8 ⁰	8.44 ⁹	25.2 ²¹	53.62 ⁹	10.6 ⁶
11	30.05 ¹⁶	39.9 ²²	39.21 ¹³	83.8 ³	8.53 ¹⁴	23.1 ¹⁸	53.71 ¹³	10.0 ⁴
21	30.21 ²²	37.7 ¹⁹	39.34 ¹⁷	83.5 ⁵	8.67 ¹⁹	21.3 ¹⁵	53.84 ¹⁶	9.6 ¹
31	30.43 ²⁸	35.8 ¹⁵	39.51 ²¹	83.0 ⁸	8.86 ²³	19.8 ¹¹	54.00 ²⁰	9.5 ³
April 10	30.71 ³¹	34.3 ¹⁰	39.72 ²³	82.2 ¹⁰	9.09 ²⁷	18.7 ⁶	54.20 ²³	9.8 ⁶
20	31.02 ³⁶	33.3 ⁴	39.95 ²⁶	81.2 ¹³	9.36 ³⁰	18.1 ¹	54.43 ²⁶	10.4 ⁹
30	31.38 ³⁹	32.9 ²	40.21 ²⁹	79.9 ¹⁶	9.66 ³³	18.0 ⁴	54.69 ²⁹	11.3 ¹³
Mai 10	31.77 ⁴⁰	33.1 ⁷	40.50 ³⁰	78.3 ¹⁷	9.99 ³⁵	18.4 ⁹	54.98 ³⁰	12.6 ¹⁵
20	32.17 ⁴¹	33.8 ¹²	40.80 ³¹	76.6 ¹⁸	10.34 ³⁶	19.3 ¹⁴	55.28 ³¹	14.1 ¹⁸
30	32.58 ⁴¹	35.0 ¹⁷	41.11 ³²	74.8 ²⁰	10.70 ³⁶	20.7 ¹⁸	55.59 ³²	15.9 ¹⁹
Juni 9	32.99 ⁴⁰	36.7 ²²	41.43 ³¹	72.8 ²⁰	11.06 ³⁶	22.5 ²²	55.91 ³¹	17.8 ²¹
19	33.39 ³⁷	38.9 ²⁵	41.74 ³⁰	70.8 ¹⁹	11.42 ³³	24.7 ²⁵	56.22 ³⁰	19.9 ²²
29	33.76 ³³	41.4 ²⁹	42.04 ²⁷	68.9 ¹⁹	11.75 ³¹	27.2 ²⁷	56.52 ²⁸	22.1 ²²
Juli 9	34.09 ²⁹	44.3 ³¹	42.31 ²⁵	67.0 ¹⁸	12.06 ²⁷	29.9 ²⁹	56.80 ²⁵	24.3 ²²
19	34.38 ²⁴	47.4 ³²	42.56 ²²	65.2 ¹⁶	12.33 ²³	32.8 ³¹	57.05 ²¹	26.5 ²¹
29	34.62 ¹⁹	50.6 ³⁴	42.78 ¹⁸	63.6 ¹⁴	12.56 ¹⁸	35.9 ³⁰	57.26 ¹⁸	28.6 ²²
Aug. 8	34.81 ¹³	54.0 ³⁴	42.96 ¹³	62.2 ¹²	12.74 ¹³	38.9 ³¹	57.44 ¹⁴	30.6 ¹⁸
18	34.94 ⁷	57.4 ³³	43.09 ¹⁰	61.0 ¹⁰	12.87 ⁹	42.0 ³⁰	57.58 ¹⁰	32.4 ¹⁷
28	35.01 ¹	60.7 ³³	43.19 ⁵	60.0 ⁸	12.96 ³	45.0 ²⁸	57.68 ⁵	34.1 ¹⁴
Sept. 7	35.02 ⁵	64.0 ³⁰	43.24 ¹	59.2 ⁵	12.99 ¹	47.8 ²⁶	57.73 ²	35.5 ¹²
17	34.97 ⁹	67.0 ²⁸	43.25 ²	58.7 ⁴	12.98 ⁵	50.4 ²⁴	57.75 ³	36.7 ⁹
27	34.88 ¹⁴	69.8 ²⁵	43.23 ⁶	58.3 ¹	12.93 ¹⁰	52.8 ²¹	57.72 ⁵	37.6 ⁻
Okt. 7	34.74 ¹⁸	72.3 ²²	43.17 ⁸	58.2 ¹	12.83 ¹²	54.9 ¹⁸	57.67 ⁸	38.3 ⁵
17	34.56 ²¹	74.5 ¹⁷	43.09 ¹⁰	58.3 ²	12.71 ¹⁵	56.7 ¹⁴	57.59 ¹⁰	38.8 ²
27	34.35 ²³	76.2 ¹³	42.99 ¹²	58.5 ⁴	12.56 ¹⁷	58.1 ¹⁰	57.49 ¹²	39.0 ⁰
Nov. 6	34.12 ²⁵	77.5 ⁸	42.87 ¹²	58.9 ⁵	12.39 ¹⁸	59.1 ⁶	57.37 ¹²	39.0 ²
16	33.87 ²⁶	78.3 ⁴	42.75 ¹²	59.4 ⁵	12.21 ¹⁹	59.7 ¹	57.25 ¹²	38.8 ⁴
26	33.61 ²⁵	78.7 ²	42.63 ¹¹	59.9 ⁷	12.02 ¹⁹	59.8 ³	57.13 ¹²	38.4 ⁶
Dez. 6	33.36 ²⁴	78.5 ⁸	42.52 ¹⁰	60.6 ⁷	11.83 ¹⁸	59.5 ⁸	57.01 ¹¹	37.8 ⁸
16	33.12 ²³	77.7 ¹²	42.42 ⁹	61.3 ⁸	11.65 ¹⁷	58.7 ¹¹	56.90 ¹⁰	37.0 ⁹
26	32.89 ²¹	76.5 ¹⁶	42.33 ⁷	62.1 ⁷	11.48 ¹⁵	57.6 ¹⁵	56.80 ⁸	36.1 ¹¹
36	32.68	74.9	42.26	62.8	11.33	56.1	56.72	35.0
Mittl. Ort	32.41	51.8	40.84	72.6	10.56	35.0	55.39	21.8
	(848)		(850)		(852)		(855)	

1909	β Gruis. 2 ^m .0.		η Pegasi. 2 ^m .9.		λ Pegasi. 3 ^m .9.		ε Gruis. 3 ^m .5.	
	AR.	Dekl. —	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. —
	22 ^h 37 ^m	47° 21'	22 ^h 38 ^m	29° 44'	22 ^h 42 ^m	23° 4'	22 ^h 43 ^m	51° 47'
Jan. 0	12.04 ¹²	59.3 ¹¹	42.38 ¹¹	43.3 ¹⁵	7.12 ¹⁰	70.9 ¹⁵	1.49 ¹⁵	65.7 ¹³
10	11.92 ⁹	58.2 ¹⁵	42.27 ⁹	41.8 ¹⁹	7.02 ⁷	69.4 ¹⁶	1.34 ¹¹	64.4 ¹⁶
20	11.83 ⁵	56.7 ¹⁸	42.18 ⁷	39.9 ²⁰	6.95 ⁵	67.8 ¹⁷	1.23 ⁷	62.8 ²⁰
30	11.78 ⁰	54.9 ²¹	42.11 ³	37.9 ²⁰	6.90 ⁵	66.1 ¹⁷	1.16 ²	60.8 ²³
Febr. 9	11.78 ³	52.8 ²⁴	42.08 ¹	35.9 ²⁰	6.87 ¹	64.4 ¹⁷	1.14 ³	58.5 ²⁶
19	11.81 ⁹	50.4 ²⁸	42.09 ⁵	33.9 ²¹	6.88 ⁵	62.7 ¹⁸	1.17 ⁸	55.9 ³⁰
März 1	11.90 ¹⁴	47.6 ²⁷	42.14 ⁸	31.8 ¹⁷	6.93 ⁸	60.9 ¹³	1.25 ¹³	52.9 ²⁹
11	12.04 ¹⁸	44.9 ²⁸	42.22 ¹³	30.1 ¹⁴	7.01 ¹²	59.6 ¹¹	1.38 ¹⁹	50.0 ³⁰
21	12.22 ²²	42.1 ²⁷	42.35 ¹⁷	28.7 ¹¹	7.13 ¹⁷	58.5 ⁷	1.57 ²³	47.0 ²⁹
31	12.44 ²⁸	39.4 ²⁷	42.52 ²¹	27.6 ⁷	7.30 ²⁰	57.8 ⁴	1.80 ²⁸	44.1 ²⁹
April 10	12.72 ³¹	36.7 ²⁶	42.73 ²⁵	26.9 ³	7.50 ²⁴	57.4 ⁰	2.08 ³³	41.2 ²⁸
20	13.03 ³⁵	34.1 ²⁵	42.98 ²⁸	26.6 ²	7.74 ²⁶	57.4 ⁴	2.41 ³⁷	38.4 ²⁶
30	13.38 ³⁸	31.6 ²³	43.26 ³¹	26.8 ⁷	8.00 ³⁰	57.8 ⁹	2.78 ⁴¹	35.8 ²⁴
Mai 10	13.76 ⁴¹	29.3 ²¹	43.57 ³²	27.5 ¹¹	8.30 ³¹	58.7 ¹²	3.19 ⁴³	33.4 ²¹
20	14.17 ⁴³	27.2 ¹⁸	43.89 ³⁴	28.6 ¹⁵	8.61 ³²	59.9 ¹⁶	3.62 ⁴⁶	31.3 ¹⁷
30	14.60 ⁴³	25.4 ¹⁴	44.23 ³⁴	30.1 ¹⁸	8.93 ³³	61.5 ¹⁹	4.08 ⁴⁶	29.6 ¹⁴
Juni 9	15.03 ⁴³	24.0 ¹⁰	44.57 ³⁴	31.9 ²²	9.26 ³³	63.4 ²¹	4.54 ⁴⁶	28.2 ¹⁰
19	15.46 ⁴²	23.0 ⁶	44.91 ³¹	34.1 ²⁴	9.59 ³¹	65.5 ²⁴	5.00 ⁴⁵	27.2 ⁶
29	15.88 ³⁹	22.4 ²	45.22 ²⁹	36.5 ²⁷	9.90 ²⁸	67.9 ²⁵	5.45 ⁴³	26.6 ¹
Juli 9	16.27 ³⁶	22.2 ²	45.51 ²⁷	39.2 ²⁷	10.18 ²⁶	70.4 ²⁶	5.88 ³⁹	26.5 ⁴
19	16.63 ³¹	22.4 ⁶	45.78 ²²	41.9 ²⁸	10.44 ²³	73.0 ²⁵	6.27 ³⁴	26.9 ⁸
29	16.94 ²⁶	23.0 ¹⁰	46.00 ¹⁸	44.7 ²⁸	10.67 ¹⁸	75.5 ²⁶	6.61 ²⁹	27.7 ¹¹
Aug. 8	17.20 ²¹	24.0 ¹³	46.18 ¹⁴	47.5 ²⁷	10.85 ¹⁴	78.1 ²⁴	6.90 ²²	28.8 ¹⁶
18	17.41 ¹⁴	25.3 ¹⁷	46.32 ⁹	50.2 ²⁶	10.99 ¹⁰	80.5 ²³	7.12 ¹⁶	30.4 ¹⁸
28	17.55 ⁸	27.0 ¹⁸	46.41 ⁴	52.8 ²⁴	11.09 ⁵	82.8 ²¹	7.28 ⁹	32.2 ²⁰
Sept. 7	17.63 ¹	28.8 ²⁰	46.45 ¹	55.2 ²³	11.14 ¹	84.9 ¹⁹	7.37 ³	34.2 ²²
17	17.64 ⁴	30.8 ²¹	46.46 ⁴	57.5 ¹⁹	11.15 ³	86.8 ¹⁷	7.40 ⁵	36.4 ²³
27	17.60 ⁹	32.9 ²⁰	46.42 ⁷	59.4 ¹⁷	11.12 ⁶	88.5 ¹⁴	7.35 ⁹	38.7 ²¹
Okt. 7	17.51 ¹⁴	34.9 ¹⁹	46.35 ¹⁰	61.1 ¹⁴	11.06 ⁸	89.9 ¹¹	7.26 ¹⁵	40.8 ²¹
17	17.37 ¹⁷	36.8 ¹⁸	46.25 ¹³	62.5 ¹¹	10.98 ¹¹	91.0 ⁸	7.11 ¹⁹	42.9 ¹⁹
27	17.20 ¹⁹	38.6 ¹⁴	46.12 ¹⁴	63.6 ⁷	10.87 ¹³	91.8 ⁵	6.92 ²²	44.8 ¹⁵
Nov. 6	17.01 ²¹	40.0 ¹¹	45.98 ¹⁵	64.3 ⁴	10.74 ¹⁴	92.3 ¹	6.70 ²⁴	46.3 ¹²
16	16.80 ²²	41.1 ⁷	45.83 ¹⁶	64.7 ¹	10.60 ¹⁴	92.4 ¹	6.46 ²⁴	47.5 ⁷
26	16.58 ²⁰	41.8 ⁴	45.67 ¹⁵	64.6 ⁴	10.46 ¹⁴	92.3 ⁵	6.22 ²³	48.2 ³
Dez. 6	16.38 ¹⁹	42.2 ²	45.52 ¹⁵	64.2 ⁷	10.32 ¹³	91.8 ⁷	5.99 ²²	48.5 ¹
16	16.19 ¹⁷	42.0 ⁵	45.37 ¹⁴	63.5 ¹¹	10.19 ¹²	91.1 ¹¹	5.77 ²⁰	48.4 ⁶
26	16.02 ¹³	41.5 ¹⁰	45.23 ¹²	62.4 ¹⁵	10.07 ¹⁰	90.0 ¹³	5.57 ¹⁶	47.8 ¹¹
36	15.89	40.5	45.11	60.9	9.97	88.7	5.41	46.7
Mittl. Ort.	14.20	39.0	44.09	42.0	8.79	71.5	3.71	44.3
	856)		857)		859)		860)	

1909	♌ Cephei. 3 ^m .5.		♍ Aquarii. 3 ^m .8.		♎ Jndi. 6 ^m .3.		♏ Aquarii. 3 ^m .2.	
	AR.	Dekl. +	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	22 ^h 46 ^m	65° 42'	22 ^h 47 ^m	8° 3'	22 ^h 48 ^m	70° 33'	22 ^h 49 ^m	16° 18'
Jan. 0	23.98	87.4	50.41	60.9	17.16	60.1	47.63	30.7
10	23.59	85.7	50.33	61.4	16.79	58.2	47.56	30.9
20	23.24	83.6	50.28	61.8	16.50	55.8	47.50	31.0
30	22.96	81.0	50.25	62.0	16.29	53.0	47.47	30.8
Febr. 9	22.75	78.2	50.24	62.1	16.17	49.9	47.46	30.4
19	22.63	75.1	50.27	62.1	16.15	46.6	47.48	29.9
März 1	22.60	71.7	50.32	61.8	16.22	43.1	47.54	29.1
11	22.67	68.7	50.41	61.3	16.41	39.2	47.64	28.0
21	22.85	65.9	50.53	60.6	16.69	35.7	47.76	26.8
31	23.12	63.4	50.69	59.6	17.06	32.2	47.92	25.4
April 10	23.47	61.3	50.88	58.4	17.52	28.9	48.11	23.8
20	23.90	59.7	51.10	57.0	18.06	25.9	48.34	22.1
30	24.39	58.6	51.36	55.4	18.68	23.1	48.59	20.2
Mai 10	24.93	58.1	51.64	53.7	19.35	20.7	48.88	18.2
20	25.50	58.2	51.94	51.8	20.08	18.7	49.19	16.3
30	26.09	58.8	52.25	49.9	20.84	17.1	49.51	14.3
Juni 9	26.68	60.1	52.57	47.9	21.61	16.0	49.84	12.3
19	27.25	61.8	52.89	46.0	22.38	15.5	50.17	10.6
29	27.78	64.1	53.20	44.2	23.13	15.4	50.48	8.9
Juli 9	28.26	66.7	53.49	42.5	23.84	15.9	50.79	7.5
19	28.68	69.7	53.75	41.0	24.50	16.9	51.06	6.3
29	29.03	73.0	53.99	39.6	25.07	18.3	51.31	5.4
Aug. 8	29.31	76.5	54.19	38.5	25.55	20.2	51.51	4.7
18	29.50	80.2	54.34	37.7	25.93	22.5	51.67	4.3
28	29.60	83.8	54.46	37.1	26.18	25.0	51.80	4.2
Sept. 7	29.62	87.5	54.53	36.8	26.32	27.7	51.87	4.4
17	29.56	91.0	54.56	36.7	26.33	30.5	51.91	4.7
27	29.42	94.4	54.56	36.8	26.23	33.3	51.90	5.3
Okt. 7	29.20	97.6	54.51	37.1	26.00	35.9	51.86	6.0
17	28.92	100.4	54.44	37.5	25.68	38.3	51.79	6.8
27	28.59	102.8	54.35	38.0	25.28	40.4	51.70	7.7
Nov. 6	28.20	104.8	54.25	38.6	24.81	42.0	51.59	8.5
16	27.78	106.3	54.13	39.3	24.30	43.2	51.47	9.4
26	27.34	107.3	54.02	39.9	23.77	43.8	51.35	10.2
Dez. 6	26.88	107.6	53.90	40.6	23.25	43.8	51.23	10.8
16	26.42	107.4	53.80	41.3	22.74	43.2	51.12	11.4
26	25.98	106.6	53.70	41.8	22.28	42.1	51.02	11.8
36	25.57	105.2	53.62	42.3	21.87	40.4	50.94	12.0
Mitt. Ort	26.26	77.9	52.07	50.5	20.36	36.0	49.32	17.9

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1909	α Pisc. austr. 1 ^m .2.		ο Andromed. 3 ^m .5.		β Pegasi. 2 ^m .4.		α Pegasi. 2 ^m .4.	
	AR.	Dekl. -	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	22 ^h 52 ^m	30° 6'	22 ^h 57 ^m	41° 49'	22 ^h 59 ^m	27° 35'	23 ^h 0 ^m	14° 42'
Jan. 0	35.68	33.7	42.21	76.9	20.06	21.2	12.04	52.4
10	35.59	33.4	42.04	75.3	19.94	19.8	11.95	51.3
20	35.52	32.8	41.90	73.4	19.84	18.2	11.87	50.0
30	35.48	31.9	41.79	71.2	19.77	16.4	11.82	48.7
Febr. 9	35.47	30.8	41.71	68.9	19.72	14.6	11.79	47.5
19	35.49	29.4	41.67	66.5	19.71	12.8	11.79	46.2
März 1	35.54	27.8	41.68	64.1	19.73	11.0	11.82	45.1
11	35.64	25.8	41.74	61.6	19.80	9.2	11.89	44.2
21	35.77	23.8	41.85	59.6	19.91	7.9	11.99	43.6
31	35.94	21.7	42.02	57.8	20.06	6.9	12.13	43.2
April 10	36.15	19.5	42.23	56.5	20.25	6.2	12.31	43.2
20	36.40	17.2	42.49	55.7	20.48	6.0	12.53	43.6
30	36.68	14.9	42.79	55.3	20.74	6.2	12.78	44.3
Mai 10	36.98	12.7	43.12	55.4	21.03	6.8	13.06	45.3
20	37.31	10.6	43.48	56.1	21.35	7.8	13.35	46.7
30	37.66	8.6	43.86	57.2	21.68	9.2	13.67	48.4
Juni 9	38.02	6.7	44.23	58.8	22.02	11.0	13.99	50.3
19	38.38	5.2	44.60	60.7	22.35	13.1	14.30	52.4
29	38.73	3.9	44.96	63.1	22.68	15.4	14.61	54.6
Juli 9	39.06	2.9	45.29	65.7	22.98	17.9	14.91	56.9
19	39.36	2.3	45.59	68.5	23.25	20.5	15.17	59.2
29	39.63	2.0	45.85	71.6	23.50	23.2	15.41	61.5
Aug. 8	39.86	2.1	46.07	74.7	23.70	25.9	15.61	63.7
18	40.04	2.4	46.23	77.8	23.86	28.5	15.77	65.7
28	40.18	3.1	46.35	80.9	23.97	31.0	15.89	67.6
Sept. 7	40.27	4.1	46.41	83.9	24.04	33.4	15.96	69.3
17	40.31	5.2	46.43	86.7	24.07	35.6	16.00	70.8
27	40.30	6.5	46.40	89.3	24.06	37.5	16.00	72.0
Okt. 7	40.25	8.0	46.33	91.7	24.02	39.2	15.96	73.0
17	40.17	9.4	46.22	93.7	23.94	40.6	15.90	73.7
27	40.06	10.7	46.08	95.4	23.84	41.7	15.81	74.2
Nov. 6	39.94	12.0	45.91	96.7	23.72	42.5	15.71	74.4
16	39.80	13.1	45.73	97.6	23.58	42.9	15.60	74.4
26	39.65	14.0	45.54	98.1	23.44	42.9	15.47	74.2
Dez. 6	39.51	14.6	45.35	98.0	23.29	42.6	15.35	73.7
16	39.38	15.0	45.15	97.6	23.15	42.0	15.24	73.0
26	39.27	15.0	44.97	96.7	23.02	41.1	15.13	72.1
36	39.17	14.8	44.79	95.3	22.90	39.9	15.03	71.1
Mittl. Ort	37.45	16.9	43.90	72.0	21.66	20.3	13.61	55.5
	867,		869)		870,		871,	

1909	♃ Gruis. 4 ^m .2.		♈ Aquarii. 3 ^m .7.		π Cephei. 4 ^m .5.		Br. 3077. 5 ^m .8.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl. +
	23 ^h 1 ^m	44° 0'	23 ^h 4 ^m	21° 39'	23 ^h 4 ^m	74° 53'	23 ^h 8 ^m	56° 39'
Jan. 0	43.48	64.1	34.14	74.2	57.30	54.8	51.94	65.1
10	43.34	63.3	34.05	74.2	56.58	53.5	51.67	63.7
20	43.24	62.1	33.98	74.0	55.93	51.7	51.42	61.8
30	43.16	60.5	33.93	73.6	55.38	49.3	51.22	59.5
Febr. 9	43.12	58.6	33.91	72.9	54.94	46.6	51.07	56.9
19	43.13	56.5	33.92	72.0	54.64	43.7	50.97	54.2
März 1	43.17	54.1	33.96	70.9	54.48	40.5	50.93	51.4
11	43.27	51.3	34.04	69.5	54.50	37.0	50.98	48.3
21	43.40	48.6	34.15	67.9	54.67	34.0	51.09	45.7
31	43.58	45.8	34.30	66.2	54.99	31.2	51.28	43.4
April 10	43.81	43.1	34.48	64.3	55.45	28.8	51.54	41.4
20	44.08	40.3	34.70	62.3	56.05	26.8	51.86	40.0
30	44.39	37.7	34.95	60.2	56.75	25.3	52.23	39.0
Mai 10	44.73	35.2	35.24	58.0	57.53	24.3	52.65	38.5
20	45.10	32.9	35.55	55.9	58.36	24.0	53.11	38.6
30	45.50	30.9	35.87	53.8	59.23	24.2	53.58	39.3
Juni 9	45.91	29.1	36.21	51.9	60.10	25.0	54.06	40.4
19	46.32	27.7	36.55	50.1	60.95	26.4	54.53	42.1
29	46.73	26.8	36.88	48.5	61.75	28.3	54.99	44.3
Juli 9	47.11	26.2	37.19	47.2	62.49	30.7	55.41	46.8
19	47.47	26.0	37.49	46.1	63.15	33.5	55.79	49.7
29	47.79	26.3	37.75	45.4	63.71	36.6	56.12	52.8
Aug. 8	48.06	27.0	37.97	44.9	64.15	40.0	56.40	56.2
18	48.28	28.1	38.15	44.8	64.47	43.6	56.62	59.6
28	48.45	29.4	38.29	45.0	64.67	47.3	56.77	63.1
Sept. 7	48.56	31.1	38.39	45.4	64.74	51.1	56.86	66.6
17	48.61	32.9	38.44	46.1	64.68	54.8	56.88	70.0
27	48.60	34.9	38.45	47.0	64.49	58.5	56.84	73.2
Okt. 7	48.55	36.9	38.42	47.9	64.19	61.9	56.74	76.2
17	48.45	38.9	38.36	49.0	63.78	65.1	56.60	78.9
27	48.31	40.7	38.27	50.2	63.27	68.0	56.41	81.3
Nov. 6	48.15	42.3	38.17	51.2	62.67	70.5	56.18	83.2
16	47.96	43.6	38.05	52.2	61.99	72.5	55.92	84.7
26	47.77	44.6	37.92	53.1	61.26	73.9	55.64	85.7
Dez. 6	47.58	45.2	37.80	53.8	60.50	74.7	55.34	86.2
16	47.40	45.4	37.68	54.4	59.72	75.0	55.04	86.1
26	47.23	45.2	37.57	54.7	58.94	74.6	54.75	85.5
36	47.09	44.5	37.47	54.8	58.20	73.6	54.47	84.3
Mittl. Ort	45.34	43.6	35.76	59.5	60.03	43.6	53.76	56.6

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1909	γ Tucanae. 3 ^m .9.		γ Sculptoris. 4 ^m .4.		τ Pegasi. 4 ^m .5.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl. +
	23 ^h 12 ^m	58° 43'	23 ^h 13 ^m	33° 1'	23 ^h 16 ^m	23° 14'
Jan. 0	5.31 ¹	88.7 ¹	53.11 ¹	58.7 ¹	6.37 ¹	31.1 ¹
10	5.08 ²³	87.4 ¹³	53.00 ¹¹	58.3 ⁴	6.26 ¹¹	29.9 ¹²
20	4.88 ²⁰	85.7 ¹⁷	52.91 ⁹	57.6 ⁷	6.16 ¹⁰	28.5 ¹⁴
30	4.74 ¹⁴	83.5 ²²	52.84 ⁷	56.7 ⁹	6.08 ⁸	27.0 ¹⁵
Febr. 9	4.64 ¹⁰	81.0 ²⁵	52.80 ⁴	55.4 ¹³	6.02 ⁶	25.4 ¹⁶
19	4.60 ⁴	78.2 ²⁸	52.80 ⁰	53.9 ¹⁵	6.00 ²	23.8 ¹⁶
März 1	4.62 ²	75.1 ³¹	52.82 ²	52.1 ¹⁸	6.00 ⁰	22.3 ¹⁵
11	4.71 ⁹	71.6 ³⁵	52.90 ⁸	49.9 ²²	6.05 ⁵	20.8 ¹⁵
21	4.85 ¹⁴	68.3 ³³	53.00 ¹⁰	47.8 ²¹	6.14 ⁹	19.7 ¹¹
31	5.06 ²¹	65.0 ³³	53.15 ¹⁵	45.4 ²⁴	6.27 ¹³	18.9 ⁸
April 10	5.33 ²⁷	61.7 ³³	53.34 ¹⁹	43.0 ²⁴	6.44 ¹⁷	18.4 ⁵
20	5.66 ³³	58.6 ³¹	53.57 ²³	40.5 ²⁵	6.65 ²¹	18.3 ¹
30	6.05 ³⁹	55.6 ³⁰	53.83 ²⁶	38.0 ²⁵	6.90 ²⁵	18.6 ³
Mai 10	6.48 ⁴³	52.9 ²⁷	54.13 ³⁰	35.6 ²⁴	7.18 ²⁸	19.3 ⁷
20	6.95 ⁴⁷	50.5 ²⁴	54.46 ³³	33.3 ²³	7.48 ³⁰	20.4 ¹¹
30	7.46 ⁵¹	48.5 ²⁰	54.80 ³⁴	31.1 ²²	7.80 ³²	21.8 ¹⁴
Juni 9	7.98 ⁵²	46.8 ¹⁷	55.16 ³⁶	29.1 ²⁰	8.13 ³³	21.8 ¹⁷
19	8.51 ⁵³	45.7 ¹¹	55.33 ³⁷	27.5 ¹⁶	8.46 ³³	23.5 ²⁰
29	9.03 ⁵²	45.0 ⁷	55.89 ³⁶	26.1 ¹⁴	8.78 ³²	25.5 ²³
Juli 9	9.54 ⁵¹	44.8 ²	56.24 ³⁵	25.0 ¹¹	9.09 ³¹	27.8 ²³
19	10.01 ⁴⁷	45.1 ³	56.56 ³²	24.4 ⁶	9.37 ²⁸	30.1 ²⁵
29	10.43 ⁴²	45.9 ⁸	56.85 ²⁹	24.1 ³	9.62 ²⁵	32.6 ²⁵
Aug. 8	10.80 ³⁷	47.1 ¹²	57.10 ²⁵	24.1 ⁰	9.84 ²²	35.1 ²⁶
18	11.10 ³⁰	48.8 ¹⁷	57.31 ²¹	24.6 ⁵	10.01 ¹⁷	37.7 ²⁴
28	11.32 ²²	50.8 ²⁰	57.48 ¹⁷	25.3 ⁷	10.14 ¹³	40.1 ²³
Sept. 7	11.47 ¹⁵	53.0 ²²	57.59 ¹¹	26.4 ¹¹	10.24 ¹⁰	42.4 ²¹
17	11.54 ⁷	55.0 ²⁵	57.65 ⁶	27.7 ¹³	10.29 ⁵	44.5 ²⁰
27	11.53 ¹	58.0 ²⁵	57.67 ²	29.2 ¹⁵	10.30 ¹	46.5 ¹⁷
Okt. 7	11.45 ⁸	60.6 ²⁶	57.64 ³	30.8 ¹⁶	10.27 ³	48.2 ¹⁵
17	11.30 ¹⁵	63.0 ²⁴	57.57 ⁷	32.4 ¹⁶	10.22 ⁵	49.7 ¹³
27	11.10 ²⁰	65.1 ²¹	57.48 ⁹	34.0 ¹⁶	10.14 ⁸	51.0 ⁹
Nov. 6	10.85 ²⁵	67.0 ¹⁹	57.35 ¹³	35.4 ¹⁴	10.04 ¹⁰	51.9 ⁷
16	10.57 ³⁰	68.5 ¹⁵	57.22 ¹³	36.7 ¹³	9.92 ¹²	52.6 ³
26	10.27 ¹⁰	69.5 ¹⁰	57.07 ¹⁵	37.7 ¹⁰	9.80 ¹²	52.9 ⁰
Dez. 6	9.97 ³⁰	70.0 ⁵	56.92 ¹⁵	38.5 ⁸	9.66 ¹⁴	52.9 ²
16	9.68 ²⁹	70.0 ⁰	56.78 ¹⁴	39.0 ⁵	9.53 ¹³	52.7 ⁵
26	9.40 ²⁸	69.5 ⁵	56.65 ¹³	39.1 ¹	9.41 ¹²	52.2 ⁸
36	9.15 ²⁵	68.4 ¹¹	56.53 ¹²	38.9 ²	9.29 ¹²	51.4 ¹¹
MITT. ORT	7.38	65.1	54.74	40.5	7.87	31.4
	877)		879)		880)	

SCHEINBARE STERNÖRTER.

1909	4 Cassiopejæ. 5 ^m .5.		x Piscium. 5 ^m .I.		70 Pegasi. 4 ^m .7.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	23 ^h 20 ^m	61° 46'	23 ^h 22 ^m	0° 45'	23 ^h 24 ^m	12° 15'
Jan. 0	45.59	68.8	14.60	18.5	31.64	26.2
10	45.24 ³⁵	67.5 ¹³	14.51 ⁹	17.8 ⁷	31.54 ¹⁰	25.2 ¹⁰
20	44.92 ³²	65.7 ¹⁸	14.43 ⁸	17.1 ⁷	31.45 ⁹	24.2 ¹⁰
30	44.65 ²⁷	63.5 ²²	14.43 ⁶	16.5 ⁶	31.38 ⁷	23.1 ¹¹
Febr. 9	44.43 ²²	61.0 ²⁵	14.37 ⁴	15.9 ⁶	31.33 ⁵	22.0 ¹¹
19	44.27 ¹⁶	58.2 ²⁸	14.33 ¹	15.5 ⁴	31.31 ²	21.0 ¹⁰
März 1	44.19 ⁸	55.3 ²⁹	14.32 ¹	15.3 ²	31.31 ¹	20.1 ⁹
11	44.20 ¹⁰	52.1 ³²	14.33 ⁵	15.3 ⁰	31.32 ⁴	19.3 ⁸
21	44.29 ⁹	49.4 ²⁷	14.38 ¹⁰	15.3 ²	31.36 ⁸	18.8 ⁵
31	44.46 ¹⁷	46.8 ²⁶	14.46 ¹²	15.5 ⁴	31.44 ¹²	18.6 ²
April 10	44.72 ²⁶	44.6 ²²	14.58 ¹⁶	15.9 ⁸	31.56 ¹⁶	18.7 ¹
20	45.06 ³⁴	42.9 ¹⁷	14.74 ¹⁹	16.7 ¹⁰	31.72 ¹⁹	19.2 ⁵
30	45.46 ⁴⁰	41.6 ¹³	14.93 ²⁴	17.7 ¹³	31.91 ²⁴	19.9 ⁷
Mai 10	45.91 ⁴⁵	40.8 ⁸	15.17 ²⁶	19.0 ¹⁵	32.15 ²⁶	21.0 ¹¹
20	46.40 ⁴⁹	40.6 ²	15.43 ²⁸	20.5 ¹⁷	32.41 ²⁸	21.0 ¹⁴
30	46.92 ⁵²	41.0 ⁴	15.71 ³⁰	22.2 ¹⁹	32.69 ³¹	22.4 ¹⁶
Juni 9	47.45 ⁵³	42.0 ¹⁰	16.01 ³²	24.1 ¹⁹	33.00 ³²	24.0 ¹⁹
19	47.98 ⁵³	43.4 ¹⁴	16.33 ³²	26.0 ²¹	33.32 ³²	25.9 ²⁰
29	48.48 ⁵⁰	45.4 ²⁰	16.65 ³¹	28.1 ²⁰	33.64 ³¹	27.9 ²²
Juli 9	48.96 ⁴⁸	47.8 ²⁴	16.96 ³⁰	30.1 ²⁰	33.95 ³⁰	30.1 ²²
19	49.39 ⁴³	50.6 ²⁸	17.26 ²⁸	32.1 ¹⁹	34.25 ²⁹	32.3 ²²
29	49.77 ³⁸	53.6 ³⁰	17.54 ²⁵	34.0 ¹⁸	34.54 ²⁵	34.5 ²²
Aug. 8	50.09 ³²	56.9 ³³	17.79 ²²	35.8 ¹⁶	34.79 ²²	36.7 ²¹
18	50.34 ²⁵	60.4 ³⁵	18.01 ¹⁸	37.4 ¹⁴	35.01 ¹⁸	38.8 ¹⁹
28	50.52 ¹⁸	64.0 ³⁶	18.19 ¹⁴	38.8 ¹¹	35.19 ¹⁴	40.7 ¹⁸
Sept. 7	50.63 ¹¹	67.6 ³⁶	18.33 ¹¹	39.9 ⁹	35.33 ¹⁰	42.5 ¹⁵
17	50.66 ³	71.1 ³⁵	18.44 ⁶	40.8 ⁷	35.43 ⁷	44.0 ¹⁴
27	50.62 ¹	74.5 ³⁴	18.50 ³	41.5 ⁴	35.50 ²	45.4 ¹¹
Okt. 7	50.52 ¹	77.7 ³²	18.53 ²	41.9 ²	35.52 ¹	46.5 ⁹
17	50.36 ¹	80.7 ³⁰	18.51 ³	42.1 ⁰	35.51 ⁴	47.4 ⁷
27	50.14 ²²	83.3 ²⁶	18.48 ⁶	42.1 ¹	35.47 ⁶	48.1 ⁴
Nov. 6	49.88 ²⁶	85.5 ²²	18.42 ⁹	42.0 ³	35.41 ⁹	48.5 ²
16	49.58 ³⁰	87.3 ¹⁸	18.33 ⁹	41.7 ⁵	35.32 ¹⁰	48.7 ⁰
26	49.24 ³⁴	88.6 ¹³	18.24 ¹¹	41.2 ⁵	35.22 ¹⁰	48.7 ³
Dez. 6	48.88 ³⁶	89.3 ⁷	18.13 ¹⁰	40.7 ⁶	35.12 ¹²	48.4 ⁴
16	48.52 ³⁶	89.5 ²	18.03 ¹¹	40.1 ⁷	35.00 ¹¹	48.0 ⁶
26	48.15 ³⁷	89.1 ⁴	17.92 ¹¹	39.4 ⁷	34.89 ¹¹	47.4 ⁷
36	47.79 ³⁶	88.1 ¹⁰	17.81 ⁹	38.7 ⁷	34.78 ¹⁰	46.7 ⁹
			17.72	38.0	34.68	45.8
Mittl. Ort	47.43	59.0	16.05	26.3	33.08	30.1
	882)		884)		885,	

1909	♄ Andromedae. 4 ^m .I.		♃ Piscium. 4 ^m .I.		γ Cephei. 3 ^m .3.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. +
	23 ^h 33 ^m	42° 45'	23 ^h 35 ^m	5° 7'	23 ^h 35 ^m	77° 7'
Jan. 0	38.69 ¹⁸	56.6 ¹²	14.77 ¹⁰	52.3 ⁹	33.79 ⁸⁹	40.2 ⁹
10	38.51 ¹⁸	55.4 ¹⁶	14.67 ⁹	51.4 ⁸	32.90 ⁸³	39.3 ¹⁴
20	38.33 ¹⁵	53.8 ¹⁹	14.58 ⁷	50.6 ⁸	32.07 ⁷⁵	37.9 ²⁰
30	38.18 ¹¹	51.9 ²¹	14.51 ⁵	49.8 ⁷	31.32 ⁶²	35.9 ²⁴
Febr. 9	38.07 ⁸	49.8 ²²	14.46 ³	49.1 ⁶	30.70 ⁴⁸	33.5 ²⁷
19	37.99 ⁴	47.6 ²³	14.43 ⁰	48.5 ⁵	30.22 ³²	30.8 ³⁰
März 1	37.95 ¹	45.3 ²³	14.43 ³	48.0 ³	29.90 ¹³	27.8 ³¹
11	37.96 ⁷	43.0 ²³	14.46 ⁸	47.7 ¹	29.77 ⁶	24.7 ³⁴
21	38.03 ¹²	40.7 ¹⁹	14.54 ¹¹	47.6 ²	29.83 ²⁵	21.3 ²⁹
31	38.15 ¹⁸	38.8 ¹⁵	14.65 ¹⁴	47.8 ⁵	30.08 ⁴²	18.4 ²⁶
April 10	38.33 ²²	37.3 ¹¹	14.79 ¹⁹	48.3 ⁸	30.50 ⁵⁸	15.8 ²³
20	38.55 ²⁸	36.2 ⁶	14.98 ²²	49.1 ¹¹	31.08 ⁷³	13.5 ¹⁹
30	38.83 ³²	35.6 ²	15.20 ²⁵	50.2 ¹³	31.81 ⁸⁴	11.6 ¹³
Mai 10	39.15 ³⁴	35.4 ³	15.45 ²⁸	51.5 ¹⁵	32.65 ⁹³	10.3 ⁸
20	39.49 ³⁷	35.7 ⁷	15.73 ³⁰	53.0 ¹⁸	33.58 ⁹⁸	9.5 ²
30	39.86 ³⁸	36.4 ¹³	16.03 ³¹	54.8 ¹⁹	34.56 ¹⁰²	9.3 ⁴
Juni 9	40.24 ³⁹	37.7 ¹⁷	16.34 ³²	56.7 ²¹	35.58 ¹⁰⁰	9.7 ¹⁰
19	40.63 ³⁷	39.4 ²⁰	16.66 ³²	58.8 ²¹	36.58 ⁹⁸	10.7 ¹⁵
29	41.00 ³⁶	41.4 ²⁴	16.98 ³⁰	60.9 ²⁰	37.56 ⁹²	12.2 ²⁰
Juli 9	41.36 ³⁴	43.8 ²⁷	17.28 ²⁹	62.9 ²⁰	38.48 ⁸⁴	14.2 ²⁴
19	41.70 ³⁰	46.5 ²⁸	17.57 ²⁶	64.9 ²⁰	39.32 ⁷⁴	16.6 ²⁹
29	42.00 ²⁶	49.3 ³⁰	17.83 ²³	66.9 ¹⁷	40.06 ⁶³	19.5 ³²
Aug. 8	42.26 ²¹	52.3 ³¹	18.06 ¹⁹	68.6 ¹⁶	40.69 ⁵⁰	22.7 ³⁴
18	42.47 ¹⁶	55.4 ³⁰	18.25 ¹⁵	70.2 ¹⁴	41.19 ³⁶	26.1 ³⁷
28	42.63 ¹²	58.4 ³¹	18.40 ¹¹	71.6 ¹²	41.55 ²¹	29.8 ³⁷
Sept. 7	42.75 ⁶	61.5 ²⁹	18.51 ⁸	72.8 ⁹	41.76 ⁷	33.5 ³⁸
17	42.81 ²	64.4 ²⁷	18.59 ⁴	73.7 ⁷	41.83 ⁷	37.3 ³⁸
27	42.83 ²	67.1 ²⁵	18.63 ⁰	74.4 ⁵	41.76 ²²	41.1 ³⁶
Okt. 7	42.81 ⁶	69.6 ²³	18.63 ³	74.9 ³	41.54 ³⁶	44.7 ³⁵
17	42.75 ¹⁰	71.9 ²⁰	18.60 ⁵	75.2 ⁰	41.18 ⁴⁹	48.2 ³¹
27	42.65 ¹³	73.9 ¹⁶	18.55 ⁷	75.2 ¹	40.69 ⁶⁰	51.3 ²⁹
Nov. 6	42.52 ¹⁵	75.5 ¹²	18.48 ⁹	75.1 ³	40.09 ⁷⁰	54.2 ²⁴
16	42.37 ¹⁷	76.7 ⁸	18.39 ⁹	74.8 ⁴	39.39 ⁷⁹	56.6 ¹⁹
26	42.20 ¹⁹	77.5 ³	18.30 ¹¹	74.4 ⁶	38.60 ⁸⁶	58.5 ¹³
Dez. 6	42.01 ¹⁹	77.8 ⁰	18.19 ¹¹	73.8 ⁶	37.74 ⁹⁰	59.8 ⁷
16	41.82 ¹⁹	77.8 ⁵	18.08 ¹⁰	73.2 ⁷	36.84 ⁹²	60.5 ²
26	41.63 ¹⁹	77.3 ¹⁰	17.98 ¹⁰	72.5 ⁸	35.92 ⁹¹	60.7 ⁵
36	41.44	76.3	17.88	71.7	35.01	60.2
Mittl. Ort	40.18	50.9	16.14	58.5	36.29	28.0

891)

892)

893)

1909	ω ² Aquarii. 4 ^m .5.		41 H. Cephei. 5 ^m .2.		Lac. δ Sculptoris. 4 ^m .4.	
	AR.	Dekl.	AR.	Dekl. +	AR.	Dekl.
	23 ^h 37 ^m	15° 2'	23 ^h 43 ^m	67° 17'	23 ^h 44 ^m	28° 37'
Jan. 0	58.87 ¹⁰	66.4 ³	31.35 ⁴⁷	75.3 ⁹	9.87 ¹²	78.3 ⁰
10	58.77 ⁹	66.7 ¹	30.88 ⁴³	74.4 ¹⁴	9.75 ¹¹	78.3 ³
20	58.68 ⁷	66.8 ⁰	30.45 ⁴⁰	73.0 ²⁰	9.64 ⁹	78.0 ⁷
30	58.61 ⁵	66.8 ³	30.05 ³⁴	71.0 ²³	9.55 ⁶	77.3 ¹⁰
Febr. 9	58.56 ³	66.5 ⁵	29.71 ²⁶	68.7 ²⁷	9.49 ⁴	76.3 ¹²
19	58.53 ⁰	66.0 ⁷	29.45 ¹⁷	66.0 ²⁹	9.45 ⁰	75.1 ¹⁵
März 1	58.53 ⁴	65.3 ¹⁰	29.28 ¹¹	63.1 ²⁹	9.45 ²	73.6 ¹⁸
11	58.57 ⁸	64.3 ¹³	29.21 ⁴	60.2 ³²	9.47 ⁷	71.8 ²¹
21	58.65 ¹⁰	63.0 ¹⁴	29.25 ¹⁵	57.0 ²⁸	9.54 ¹¹	69.7 ²²
31	58.75 ¹⁵	61.6 ¹⁶	29.40 ²⁶	54.2 ²⁵	9.65 ¹⁵	67.5 ²³
April 10	58.90 ¹⁸	60.0 ¹⁸	29.66 ³⁵	51.7 ²¹	9.80 ¹⁹	65.2 ²⁵
20	59.08 ²²	58.2 ²⁰	30.01 ⁴⁴	49.6 ¹⁶	9.99 ²³	62.7 ²⁵
30	59.30 ²⁶	56.2 ²⁰	30.45 ⁵¹	48.0 ¹²	10.22 ²⁶	60.2 ²⁵
Mai 10	59.56 ²⁸	54.2 ²²	30.96 ⁵⁷	46.8 ⁶	10.48 ²⁹	57.7 ²⁴
20	59.84 ³⁰	52.0 ²¹	31.53 ⁶¹	46.2 ⁰	10.77 ³³	55.3 ²⁴
30	60.14 ³²	49.9 ²¹	32.14 ⁶³	46.2 ⁵	11.10 ³⁴	52.9 ²¹
Juni 9	60.46 ³³	47.8 ²¹	32.77 ⁶³	46.7 ¹¹	11.44 ³⁵	50.8 ²⁰
19	60.79 ³³	45.7 ¹⁹	33.40 ⁶²	47.8 ¹⁶	11.79 ³⁵	48.8 ¹⁷
29	61.12 ³¹	43.8 ¹⁶	34.02 ⁵⁹	49.4 ²¹	12.14 ³⁴	47.1 ¹⁴
Juli 9	61.43 ³⁰	42.2 ¹⁵	34.61 ⁵⁴	51.5 ²⁵	12.48 ³³	45.7 ¹¹
19	61.73 ²⁸	40.7 ¹²	35.15 ⁴⁹	54.0 ²⁹	12.81 ³⁰	44.6 ⁷
29	62.01 ²⁴	39.5 ⁹	35.64 ⁴²	56.9 ³¹	13.11 ²⁶	43.9 ³
Aug. 8	62.25 ²⁰	38.6 ⁶	36.06 ³⁵	60.0 ³⁴	13.37 ²³	43.6 ¹
18	62.45 ¹⁷	38.0 ³	36.41 ²⁶	63.4 ³⁶	13.60 ¹⁸	43.7 ⁴
28	62.62 ¹²	37.7 ⁰	36.67 ¹⁷	67.0 ³⁶	13.78 ¹⁴	44.1 ⁸
Sept. 7	62.74 ⁹	37.7 ³	36.84 ⁹	70.6 ³⁷	13.92 ¹⁰	44.9 ¹⁰
17	62.83 ⁴	38.0 ⁵	36.93 ¹	74.3 ³⁶	14.02 ⁵	45.9 ¹³
27	62.87 ⁰	38.5 ⁷	36.94 ⁸	77.9 ³⁵	14.07 ¹	47.2 ¹⁴
Okt. 7	62.87 ²	39.2 ⁸	36.86 ¹⁵	81.4 ³²	14.08 ³	48.6 ¹⁵
17	62.85 ⁶	40.0 ⁹	36.71 ²³	84.6 ³⁰	14.05 ⁶	50.1 ¹⁵
27	62.79 ⁷	40.9 ¹⁰	36.48 ²⁹	87.6 ²⁶	13.99 ⁹	51.6 ¹⁵
Nov. 6	62.72 ¹⁰	41.9 ¹⁰	36.19 ³⁵	90.2 ²²	13.90 ¹¹	53.1 ¹⁴
16	62.62 ¹⁰	42.9 ⁹	35.84 ⁴⁰	92.4 ¹⁷	13.79 ¹²	54.5 ¹²
26	62.52 ¹¹	43.8 ⁸	35.44 ⁴⁴	94.1 ¹²	13.67 ¹⁴	55.7 ¹⁰
Dez. 6	62.41 ¹¹	44.6 ⁷	35.00 ⁴⁶	95.3 ⁶	13.53 ¹³	56.7 ⁷
16	62.30 ¹¹	45.3 ⁶	34.54 ⁴⁸	95.9 ⁰	13.40 ¹³	57.4 ⁴
26	62.19 ¹⁰	45.9 ⁴	34.06 ⁴⁷	95.9 ⁶	13.27 ¹²	57.8 ¹
36	62.09	46.3	33.59	95.3	13.15	57.9
Mittl. Ort	60.25	53.3	33.15	64.2	11.24	60.9

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895)

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SCHEINBARE STERNÖRTER.

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1909	φ Pegasi. 5 ^m .4.		ω Piscium. 3 ^m .9.		ε Tucanae. 4 ^m .5.	
	AR.	Dekl. +	AR.	Dekl. +	AR.	Dekl. -
	23 ^h 47 ^m	18° 36'	23 ^h 54 ^m	6° 21'	23 ^h 55 ^m	66° 4'
Jan. 0	50.08 ¹²	51.8 ⁹	36.98 ¹¹	28.4 ⁸	9.98 ³⁹	85.9 ¹¹
10	49.96 ¹¹	50.9 ¹¹	36.87 ⁹	27.6 ⁸	9.59 ³⁴	84.8 ¹⁶
20	49.85 ⁹	49.8 ¹³	36.78 ⁹	26.8 ⁸	9.25 ³¹	83.2 ²¹
30	49.76 ⁷	48.5 ¹²	36.69 ⁷	26.0 ⁸	8.94 ²⁴	81.1 ²⁵
Febr. 9	49.69 ⁶	47.3 ¹³	36.62 ⁴	25.2 ⁶	8.70 ¹⁸	78.6 ²⁹
19	49.63 ²	46.0 ¹²	36.58 ²	24.6 ⁵	8.52 ¹¹	75.7 ³²
März 1	49.61 ²	44.8 ¹⁰	36.56 ¹	24.1 ⁴	8.41 ³	72.5 ³⁴
11	49.63 ⁶	43.8 ⁹	36.57 ⁵	23.7 ¹	8.38 ⁵	69.1 ³⁹
21	49.69 ⁹	42.9 ⁶	36.62 ⁹	23.6 ²	8.43 ¹⁴	65.2 ³⁷
31	49.78 ¹⁴	42.3 ³	36.71 ¹³	23.8 ⁴	8.57 ²²	61.5 ³⁶
April 10	49.92 ¹⁸	42.0 ⁰	36.84 ¹⁷	24.2 ⁷	8.79 ³⁰	57.9 ³⁵
20	50.10 ²¹	42.0 ⁴	37.01 ²⁰	24.9 ¹⁰	9.09 ³⁸	54.4 ³⁴
30	50.31 ²⁶	42.4 ⁸	37.21 ²⁴	25.9 ¹²	9.47 ⁴⁴	51.0 ³¹
Mai 10	50.57 ²⁸	43.2 ¹¹	37.45 ²⁷	27.1 ¹⁵	9.91 ⁵²	47.9 ²⁹
20	50.85 ³⁰	44.3 ¹⁴	37.72 ²⁹	28.6 ¹⁸	10.43 ⁵⁶	45.0 ²⁴
30	51.15 ³²	45.7 ¹⁶	38.01 ³²	30.4 ¹⁹	10.99 ⁶⁰	42.6 ²⁰
Juni 9	51.47 ³³	47.3 ²⁰	38.33 ³¹	32.3 ²⁰	11.59 ⁶³	40.6 ¹⁶
19	51.80 ³³	49.3 ²¹	38.64 ³²	34.3 ²¹	12.22 ⁶⁴	39.0 ¹⁰
29	52.13 ³¹	51.4 ²²	38.96 ³¹	36.4 ²⁰	12.86 ⁶³	38.0 ⁶
Juli 9	52.44 ³⁰	53.6 ²³	39.27 ²⁹	38.4 ²¹	13.49 ⁶¹	37.4 ¹
19	52.74 ²⁷	55.9 ²³	39.56 ²⁷	40.5 ²⁰	14.10 ⁵⁷	37.5 ⁶
29	53.01 ²⁴	58.2 ²³	39.83 ²⁴	42.5 ¹⁸	14.67 ⁵¹	38.1 ¹¹
Aug. 8	53.25 ²⁰	60.5 ²²	40.07 ²¹	44.3 ¹⁷	15.18 ⁴³	39.2 ¹⁶
18	53.45 ¹⁶	62.7 ²¹	40.28 ¹⁷	46.0 ¹⁵	15.61 ³⁶	40.8 ²⁰
28	53.61 ¹³	64.8 ¹⁹	40.45 ¹⁴	47.5 ¹²	15.97 ²⁷	42.8 ²³
Sept. 7	53.74 ⁹	66.7 ¹⁷	40.59 ⁹	48.7 ¹¹	16.24 ¹⁷	45.1 ²⁶
17	53.83 ⁵	68.4 ¹⁵	40.68 ⁶	49.8 ⁸	16.41 ⁷	47.7 ²⁸
27	53.88 ¹	69.9 ¹³	40.74 ²	50.6 ⁵	16.48 ³	50.5 ²⁹
Okt. 7	53.89 ²	71.2 ¹¹	40.76 ¹	51.1 ⁴	16.45 ¹³	53.4 ²⁷
17	53.87 ⁵	72.3 ⁸	40.75 ³	51.5 ¹	16.32 ²⁰	56.1 ²⁶
27	53.82 ⁷	73.1 ⁵	40.72 ⁶	51.6 ⁰	16.12 ²⁸	58.7 ²⁴
Nov. 6	53.75 ⁹	73.6 ³	40.66 ⁷	51.6 ³	15.84 ³⁴	61.1 ¹⁹
16	53.66 ¹⁰	73.9 ¹	40.59 ⁹	51.3 ³	15.50 ³⁸	63.0 ¹⁵
26	53.56 ¹¹	74.0 ²	40.50 ¹⁰	51.0 ⁵	15.12 ⁴⁰	64.5 ¹⁰
Dez. 6	53.45 ¹²	73.8 ⁵	40.40 ¹¹	50.5 ⁶	14.72 ⁴³	65.5 ⁴
16	53.33 ¹²	73.3 ⁶	40.29 ¹⁰	49.9 ⁷	14.29 ⁴¹	65.9 ²
26	53.21 ¹¹	72.7 ⁹	40.19 ¹¹	49.2 ⁷	13.88 ⁴⁰	65.7 ⁸
36	53.10	71.8	40.08	48.5	13.48	64.9
Mitt. Ort	51.40	53.4	38.25	34.2	11.56	60.3

898)

902)

903)

Allgemeine Präzession = $50''.258$

$$\begin{aligned}
 A &= t - 0.02526 \sin 2 \odot \\
 &\quad + 0.00293 \sin (\odot + 81^\circ 50') \\
 &\quad - 0.34212 \sin \delta \\
 &\quad + 0.00409 \sin 2 \Omega \\
 [A' &= -0.00405 \sin 2 \zeta \\
 &\quad + 0.00134 \sin (\zeta - 0^\circ 55')] \\
 B &= -0''.5519 \cos 2 \odot \\
 &\quad - 0.0092 \cos (\odot + 281^\circ 22') \\
 &\quad - 9.2100 \cos \delta \\
 &\quad + 0.0895 \cos 2 \Omega \\
 [B' &= -0.0884 \cos 2 \zeta] \\
 C &= -20''.47 \cos \odot \cos \varepsilon \\
 D &= -20''.47 \sin \odot \\
 E &= -0''.0031 \sin 2 \odot \\
 &\quad - 0.0421 \sin \delta \\
 &\quad + 0.0014 \sin 2 \Omega \\
 a &= 46''.0875 + 20''.0461 \sin \alpha \operatorname{tg} \delta \\
 b &= \cos \alpha \operatorname{tg} \delta \\
 c &= \cos \alpha \sec \delta \\
 d &= \sin \alpha \sec \delta \\
 a' &= 20''.0461 \cos \alpha \\
 b' &= -\sin \alpha \\
 c' &= \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta \\
 d' &= \cos \alpha \sin \delta
 \end{aligned}$$

\odot = wahre Länge der Sonne

δ = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik

ζ = mittlere Länge des Mondes

m, m' = jährliche Eigenbewegung in AR. und Dekl.

t = Zeit seit Anfang des Jahres, in Teilen des Jahres ausgedrückt.

Scheinb. AR. = AR. $1909.0 + tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$

Scheinb. Dekl. = Dekl. $1909.0 + tm' + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$

$$\begin{aligned}
 \text{Setzt man } f &= 46''.0875 A + E & h \sin H &= C \\
 g \cos G &= 20''.0461 A & h \cos H &= D \\
 g \sin G &= B & i &= C \operatorname{tg} \varepsilon \\
 [f' &= 46''.0875 A'] \\
 [g' \cos G' &= 20''.0461 A'] \\
 [g' \sin G' &= B'],
 \end{aligned}$$

so wird

Scheinb. AR. = AR. $1909.0 + tm + f + g \sin(G + \alpha) \operatorname{tg} \delta + h \sin(H + \alpha) \sec \delta$
 $+ [f' + g' \sin(G' + \alpha) \operatorname{tg} \delta]$

Scheinb. Dekl. = Dekl. $1909.0 + tm' + g \cos(G + \alpha) + h \cos(H + \alpha) \sin \delta + i \cos \delta$
 $+ [g' \cos(G' + \alpha)]$

Korrektion für die tägliche Aberration, wenn θ die Sternzeit, φ die Polhöhe ist:

$$\Delta \alpha = + 0''.0213 \cos \varphi \cos (\theta - \alpha) \sec \delta$$

$$\Delta \delta = + 0''.320 \cos \varphi \sin (\theta - \alpha) \sin \delta.$$

Konstanten für die Sternzeitepochen

18^h 40^m des Normalmeridians oder 7^h 24^m Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	E
1909 Jan. 0.53	0.000	9.5204 _n	9.5418 _n	0.5116 _n	1.3045	—0.04
10.50	0.027	9.4707 _n	9.7250 _n	0.8103 _n	1.2838	0.04
20.48	0.055	9.4178 _n	9.8842 _n	0.9763 _n	1.2474	0.04
30.45	0.082	9.3628 _n	0.0148 _n	1.0855 _n	1.1927	0.04
Febr. 9.42	0.109	9.3066 _n	0.1184 _n	1.1612 _n	1.1144	0.04
19.39	0.137	9.2495 _n	0.1984 _n	1.2138 _n	1.0022	—0.04
März 1.37	0.164	9.1913 _n	0.2573 _n	1.2483 _n	0.8320	0.04
11.34	0.191	9.1303 _n	0.2979 _n	1.2678 _n	0.5242	0.04
21.31	0.218	9.0631 _n	0.3222 _n	1.2737 _n	9.2716 _n	0.04
31.28	0.246	8.9833 _n	0.3322 _n	1.2665 _n	0.5673 _n	0.04
April 10.26	0.273	8.8795 _n	0.3299 _n	1.2461 _n	0.8494 _n	—0.04
20.23	0.300	8.7280 _n	0.3177 _n	1.2114 _n	1.0095 _n	0.04
30.20	0.328	8.4574 _n	0.2984 _n	1.1601 _n	1.1161 _n	0.04
Mai 10.18	0.355	7.0492 _n	0.2756 _n	1.0879 _n	1.1910 _n	0.04
20.15	0.382	8.4652	0.2538 _n	0.9864 _n	1.2439 _n	0.04
30.12	0.410	8.7921	0.2383 _n	0.8377 _n	1.2798 _n	—0.04
Juni 9.09	0.437	8.9850	0.2335 _n	0.5898 _n	1.3016 _n	0.04
19.07	0.464	9.1217	0.2426 _n	9.9006 _n	1.3107 _n	0.04
29.04	0.491	9.2262	0.2658 _n	0.3647	1.3078 _n	0.04
Juli 9.01	0.519	9.3089	0.3006 _n	0.7293	1.2927 _n	0.04
18.98	0.546	9.3757	0.3429 _n	0.9171	1.2644 _n	—0.04
28.96	0.573	9.4302	0.3879 _n	1.0390	1.2211 _n	0.04
Aug. 7.93	0.601	9.4749	0.4319 _n	1.1245	1.1593 _n	0.04
17.90	0.628	9.5118	0.4717 _n	1.1857	1.0724 _n	0.04
27.88	0.655	9.5426	0.5055 _n	1.2287	0.9472 _n	0.04
Sept. 6.85	0.683	9.5688	0.5320 _n	1.2566	0.7507 _n	—0.04
16.82	0.710	9.5920	0.5505 _n	1.2711	0.3489 _n	0.04
26.79	0.737	9.6134	0.5610 _n	1.2729	0.0967	0.04
Okt. 6.77	0.765	9.6342	0.5637 _n	1.2618	0.6734	0.04
16.74	0.792	9.6554	0.5595 _n	1.2371	0.9064	0.04
26.71	0.819	9.6777	0.5497 _n	1.1967	1.0486	—0.04
Nov. 5.68	0.846	9.7014	0.5362 _n	1.1371	1.1457	0.04
15.66	0.874	9.7264	0.5215 _n	1.0518	1.2142	0.04
25.63	0.901	9.7524	0.5088 _n	0.9276	1.2618	0.04
Dez. 5.60	0.928	9.7788	0.5011 _n	0.7317	1.2925	0.04
15.57	0.956	9.8049	0.5011 _n	0.3305	1.3083	—0.04
25.55	0.983	9.8301	0.5102 _n	0.0732 _n	1.3103	0.04
35.52	1.010	9.8536	0.5279 _n	0.6506 _n	1.2984	0.04

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>C</i>
Jan. 0	—15.32	0.8232	183° 0'	1.3101	350° 53'	0.1475 _n	076
1	15.15	0.8184	183 10	1.3099	349 56	0.1895 _n	112
2	14.98	0.8136	183 21	1.3096	349 0	0.2276 _n	149
3	14.81	0.8088	183 32	1.3094	348 3	0.2626 _n	185
4	14.64	0.8040	183 44	1.3091	347 7	0.2948 _n	222
5	—14.48	0.7991	183 56	1.3088	346 10	0.3246 _n	259
6	14.31	0.7942	184 9	1.3085	345 13	0.3525 _n	296
7	14.15	0.7893	184 23	1.3081	344 17	0.3785 _n	332
8	13.98	0.7844	184 37	1.3078	343 20	0.4028 _n	369
9	13.82	0.7795	184 52	1.3074	342 23	0.4258 _n	405
10	—13.66	0.7745	185 8	1.3070	341 25	0.4475 _n	442
11	13.50	0.7695	185 24	1.3066	340 28	0.4680 _n	479
12	13.34	0.7645	185 41	1.3062	339 31	0.4875 _n	515
13	13.18	0.7595	185 58	1.3057	338 33	0.5060 _n	552
14	13.02	0.7545	186 16	1.3053	337 36	0.5236 _n	589
15	—12.87	0.7495	186 35	1.3048	336 38	0.5404 _n	625
16	12.71	0.7445	186 55	1.3043	335 40	0.5564 _n	662
17	12.56	0.7394	187 15	1.3038	334 42	0.5717 _n	698
18	12.40	0.7343	187 36	1.3033	333 44	0.5864 _n	735
19	12.25	0.7293	187 57	1.3027	332 46	0.6004 _n	772
20	—12.10	0.7243	188 19	1.3022	331 48	0.6139 _n	808
21	11.95	0.7193	188 42	1.3016	330 50	0.6268 _n	845
22	11.80	0.7143	189 6	1.3010	329 51	0.6392 _n	881
23	11.65	0.7093	189 30	1.3005	328 52	0.6512 _n	918
24	11.50	0.7043	189 55	1.2999	327 53	0.6627 _n	955
25	—11.36	0.6994	190 21	1.2993	326 54	0.6737 _n	991
26	11.21	0.6945	190 47	1.2987	325 55	0.6844 _n	028
27	11.07	0.6896	191 14	1.2980	324 56	0.6946 _n	064
28	10.93	0.6848	191 42	1.2974	323 57	0.7045 _n	101
29	10.79	0.6800	192 10	1.2968	322 57	0.7140 _n	138
30	—10.65	0.6752	192 39	1.2961	321 57	0.7232 _n	174
31	10.52	0.6705	193 8	1.2955	320 57	0.7321 _n	211
Febr. 1	10.38	0.6658	193 38	1.2948	319 57	0.7406 _n	247
2	10.25	0.6612	194 9	1.2942	318 57	0.7489 _n	284
3	10.12	0.6566	194 40	1.2935	317 56	0.7568 _n	321
4	—9.99	0.6520	195 12	1.2928	316 56	0.7645 _n	357
5	9.86	0.6475	195 44	1.2922	315 55	0.7719 _n	394
6	9.74	0.6430	196 17	1.2915	314 54	0.7791 _n	430

Konstanten für die mittleren Tage 1909,

bne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>C</i>
Febr. 6	-9.74	0.6430	196° 17'	1.2915	314° 54'	0.7791 _n	430
7	9.61	0.6386	196 50	1.2909	313 53	0.7860 _n	467
8	9.49	0.6342	197 24	1.2902	312 52	0.7926 _n	504
9	9.36	0.6299	197 58	1.2896	311 50	0.7990 _n	540
10	9.24	0.6257	198 33	1.2889	310 49	0.8052 _n	577
11	-9.12	0.6215	199 8	1.2882	309 47	0.8112 _n	613
12	9.00	0.6174	199 43	1.2876	308 45	0.8169 _n	650
13	8.88	0.6133	200 19	1.2869	307 43	0.8224 _n	687
14	8.77	0.6093	200 55	1.2863	306 41	0.8278 _n	723
15	8.65	0.6053	201 31	1.2857	305 38	0.8329 _n	760
16	-8.54	0.6014	202 8	1.2851	304 36	0.8378 _n	796
17	8.43	0.5976	202 44	1.2845	303 33	0.8426 _n	833
18	8.32	0.5938	203 21	1.2839	302 30	0.8472 _n	870
19	8.21	0.5901	203 58	1.2833	301 27	0.8515 _n	906
20	8.10	0.5864	204 36	1.2827	300 24	0.8557 _n	943
21	-7.99	0.5828	205 13	1.2821	299 21	0.8597 _n	979
22	7.89	0.5793	205 51	1.2815	298 17	0.8636 _n	016
23	7.78	0.5758	206 28	1.2810	297 14	0.8673 _n	053
24	7.68	0.5724	207 6	1.2805	296 10	0.8708 _n	089
25	7.58	0.5690	207 44	1.2800	295 6	0.8741 _n	126
26	-7.48	0.5657	208 22	1.2795	294 2	0.8773 _n	162
27	7.38	0.5624	209 0	1.2790	292 58	0.8804 _n	199
28	7.28	0.5592	209 37	1.2785	291 54	0.8833 _n	236
März 1	7.18	0.5560	210 15	1.2781	290 50	0.8860 _n	272
2	7.09	0.5529	210 52	1.2777	289 46	0.8886 _n	309
3	-6.99	0.5498	211 30	1.2773	288 41	0.8910 _n	345
4	6.90	0.5467	212 7	1.2769	287 37	0.8933 _n	382
5	6.80	0.5436	212 44	1.2765	286 32	0.8954 _n	419
6	6.71	0.5405	213 21	1.2761	285 28	0.8974 _n	455
7	6.61	0.5374	213 58	1.2758	284 23	0.8993 _n	492
8	-6.52	0.5344	214 34	1.2755	283 18	0.9010 _n	528
9	6.43	0.5314	215 11	1.2752	282 13	0.9025 _n	565
10	6.34	0.5284	215 47	1.2750	281 8	0.9040 _n	602
11	6.25	0.5254	216 23	1.2747	280 3	0.9053 _n	638
12	6.16	0.5224	216 59	1.2745	278 58	0.9064 _n	675
13	-6.07	0.5194	217 35	1.2743	277 53	0.9075 _n	711
14	5.98	0.5164	218 11	1.2742	276 48	0.9084 _n	748
15	5.89	0.5134	218 47	1.2740	275 43	0.9091 _n	785

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log i$	$($
März 15	-5.89	0.5134	218° 47'	1.2740	275° 43'	0.9091 _n	785
16	5.80	0.5103	219 22	1.2739	274 38	0.9098 _n	821
17	5.71	0.5073	219 58	1.2738	273 33	0.9103 _n	858
18	5.62	0.5042	220 33	1.2737	272 28	0.9106 _n	894
19	5.53	0.5011	221 9	1.2737	271 24	0.9109 _n	931
20	-5.44	0.4980	221 44	1.2737	270 19	0.9110 _n	968
21	5.35	0.4948	222 19	1.2737	269 14	0.9109 _n	004
22	5.26	0.4916	222 54	1.2737	268 9	0.9108 _n	041
23	5.17	0.4883	223 29	1.2738	267 4	0.9105 _n	077
24	5.08	0.4850	224 4	1.2739	265 59	0.9101 _n	114
25	-4.99	0.4816	224 39	1.2740	264 54	0.9095 _n	151
26	4.91	0.4781	225 15	1.2741	263 50	0.9088 _n	187
27	4.82	0.4746	225 51	1.2742	262 45	0.9080 _n	224
28	4.73	0.4710	226 27	1.2744	261 41	0.9071 _n	260
29	4.64	0.4673	227 3	1.2746	260 36	0.9060 _n	297
30	-4.55	0.4636	227 39	1.2748	259 32	0.9048 _n	334
31	4.46	0.4598	228 16	1.2751	258 28	0.9035 _n	370
April 1	4.37	0.4559	228 53	1.2753	257 24	0.9020 _n	407
2	4.28	0.4519	229 30	1.2756	256 20	0.9004 _n	443
3	4.18	0.4479	230 8	1.2759	255 16	0.8987 _n	480
4	-4.09	0.4438	230 46	1.2762	254 12	0.8968 _n	517
5	3.99	0.4396	231 25	1.2766	253 9	0.8948 _n	553
6	3.90	0.4354	232 4	1.2770	252 6	0.8927 _n	590
7	3.80	0.4311	232 44	1.2774	251 2	0.8904 _n	626
8	3.71	0.4267	233 25	1.2778	249 59	0.8880 _n	663
9	-3.61	0.4222	234 6	1.2782	248 56	0.8854 _n	700
10	3.51	0.4176	234 48	1.2786	247 53	0.8827 _n	736
11	3.41	0.4129	235 31	1.2791	246 51	0.8799 _n	773
12	3.31	0.4081	236 15	1.2795	245 48	0.8769 _n	809
13	3.21	0.4033	237 1	1.2800	244 46	0.8738 _n	846
14	-3.11	0.3984	237 48	1.2805	243 44	0.8705 _n	883
15	3.01	0.3934	238 36	1.2810	242 42	0.8670 _n	919
16	2.91	0.3884	239 26	1.2816	241 40	0.8634 _n	956
17	2.80	0.3833	240 17	1.2821	240 39	0.8597 _n	992
18	2.70	0.3781	241 10	1.2826	239 37	0.8558 _n	029
19	-2.59	0.3729	242 5	1.2832	238 36	0.8517 _n	066
20	2.48	0.3676	243 1	1.2838	237 35	0.8475 _n	102
21	2.37	0.3622	243 59	1.2844	236 34	0.8431 _n	139

Konstanten für die mittleren Tage 1909,

ne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12 ^h mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	☾
pril 21	-2.37	0.3622	243 59	1.2844	236 34	0.8431 _n	139
22	2.26	0.3568	244 59	1.2850	235 34	0.8385 _n	175
23	2.15	0.3514	246 1	1.2856	234 33	0.8338 _n	212
24	2.04	0.3460	247 5	1.2862	233 33	0.8289 _n	249
25	1.92	0.3406	248 11	1.2868	232 33	0.8238 _n	285
26	-1.81	0.3352	249 20	1.2874	231 33	0.8186 _n	322
27	1.69	0.3299	250 31	1.2880	230 34	0.8131 _n	358
28	1.57	0.3247	251 44	1.2886	229 34	0.8074 _n	395
29	1.45	0.3195	253 0	1.2893	228 35	0.8016 _n	432
30	1.33	0.3144	254 19	1.2899	227 36	0.7955 _n	468
ai 1	-1.21	0.3095	255 40	1.2905	226 37	0.7893 _n	505
2	1.09	0.3047	257 4	1.2912	225 39	0.7828 _n	541
3	0.96	0.3001	258 31	1.2918	224 40	0.7761 _n	578
4	0.83	0.2957	260 0	1.2924	223 42	0.7692 _n	615
5	0.70	0.2914	261 32	1.2931	222 44	0.7620 _n	651
6	-0.57	0.2874	263 7	1.2937	221 46	0.7546 _n	688
7	0.44	0.2838	264 44	1.2943	220 49	0.7469 _n	724
8	0.31	0.2805	266 24	1.2949	219 51	0.7390 _n	761
9	0.18	0.2776	268 8	1.2956	218 54	0.7308 _n	798
10	-0.05	0.2751	269 54	1.2962	217 57	0.7224 _n	834
11	+0.09	0.2729	271 42	1.2968	217 0	0.7136 _n	871
12	0.22	0.2712	273 32	1.2974	216 4	0.7046 _n	907
13	0.36	0.2700	275 24	1.2980	215 7	0.6952 _n	944
14	0.50	0.2693	277 17	1.2986	214 11	0.6855 _n	981
15	0.64	0.2692	279 11	1.2992	213 15	0.6754 _n	017
16	+0.78	0.2697	281 6	1.2997	212 19	0.6650 _n	054
17	0.92	0.2707	283 1	1.3003	211 23	0.6542 _n	090
18	1.06	0.2723	284 56	1.3008	210 27	0.6431 _n	127
19	1.21	0.2744	286 51	1.3014	209 32	0.6315 _n	164
20	1.35	0.2771	288 46	1.3019	208 37	0.6194 _n	200
21	+1.50	0.2803	290 40	1.3025	207 42	0.6069 _n	237
22	1.65	0.2841	292 33	1.3030	206 47	0.5939 _n	273
23	1.80	0.2884	294 24	1.3035	205 52	0.5804 _n	310
24	1.95	0.2932	296 13	1.3040	204 57	0.5664 _n	347
25	2.10	0.2986	298 0	1.3044	204 2	0.5517 _n	383
26	+2.25	0.3044	299 44	1.3049	203 8	0.5364 _n	420
27	2.41	0.3106	301 26	1.3053	202 14	0.5205 _n	456
28	2.56	0.3172	303 5	1.3058	201 20	0.5038 _n	493

Konstanten für die mittleren Tage 1909,
ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

$\overset{12^h}{\text{Mittl. Zeit}}$	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Mai 28	+2.56	0.3172	303 5	1.3058	201 20	0.5038 _n	493
29	2.72	0.3241	304 42	1.3062	200 26	0.4863 _n	530
30	2.87	0.3313	306 16	1.3066	199 32	0.4679 _n	566
31	3.03	0.3389	307 46	1.3070	198 38	0.4487 _n	603
Juni 1	3.19	0.3468	309 13	1.3074	197 44	0.4284 _n	640
2	+3.35	0.3549	310 37	1.3077	196 50	0.4070 _n	676
3	3.51	0.3632	311 58	1.3081	195 57	0.3843 _n	713
4	3.67	0.3717	313 15	1.3084	195 4	0.3603 _n	749
5	3.83	0.3803	314 29	1.3087	194 10	0.3348 _n	786
6	3.99	0.3891	315 40	1.3090	193 17	0.3076 _n	823
7	+4.15	0.3980	316 48	1.3092	192 24	0.2784 _n	859
8	4.31	0.4070	317 53	1.3095	191 31	0.2470 _n	896
9	4.47	0.4160	318 55	1.3097	190 38	0.2130 _n	932
10	4.64	0.4251	319 54	1.3099	189 45	0.1759 _n	969
11	4.80	0.4342	320 50	1.3101	188 52	0.1354 _n	1006
12	+4.97	0.4433	321 44	1.3103	187 59	0.0905 _n	1042
13	5.13	0.4524	322 35	1.3105	187 6	0.0403 _n	1079
14	5.30	0.4614	323 24	1.3106	186 14	9.9835 _n	1115
15	5.46	0.4704	324 10	1.3108	185 21	9.9179 _n	1152
16	5.63	0.4794	324 54	1.3109	184 29	9.8404 _n	1189
17	+5.79	0.4883	325 36	1.3110	183 36	9.7460 _n	1225
18	5.96	0.4971	326 15	1.3110	182 43	9.6250 _n	1262
19	6.12	0.5059	326 52	1.3111	181 51	9.4567 _n	1298
20	6.29	0.5146	327 28	1.3111	180 58	9.1781 _n	1335
21	6.46	0.5232	328 2	1.3111	180 6	8.1761 _n	1372
22	+6.63	0.5317	328 33	1.3111	179 13	9.0813	1408
23	6.80	0.5401	329 3	1.3111	178 21	9.4086	1445
24	6.97	0.5485	329 31	1.3110	177 28	9.5928	1481
25	7.14	0.5567	329 58	1.3110	176 36	9.7218	1518
26	7.30	0.5649	330 23	1.3109	175 43	9.8211	1555
27	+7.47	0.5729	330 47	1.3108	174 51	9.9017	1591
28	7.63	0.5809	331 9	1.3107	173 58	9.9695	1628
29	7.80	0.5887	331 30	1.3105	173 6	0.0280	1664
30	7.96	0.5964	331 50	1.3104	172 13	0.0795	1701
Juli 1	8.13	0.6040	332 9	1.3102	171 20	0.1254	1738
2	+8.29	0.6115	332 26	1.3100	170 28	0.1668	1774
3	8.46	0.6189	332 42	1.3098	169 35	0.2045	1811
4	8.62	0.6262	332 58	1.3096	168 42	0.2391	1847

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

^{12h} Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>C</i>
Juli 4	+ 8.62	0.6262	332° 58'	1.3096	168° 42'	0.2391	847
5	8.78	0.6334	333 12	1.3093	167 49	0.2710	884
6	8.94	0.6404	333 25	1.3090	166 56	0.3006	921
7	9.10	0.6473	333 37	1.3087	166 3	0.3282	957
8	9.26	0.6542	333 49	1.3084	165 10	0.3540	994
9	+ 9.42	0.6609	334 0	1.3081	164 17	0.3783	030
10	9.58	0.6676	334 10	1.3078	163 23	0.4012	067
11	9.74	0.6742	334 19	1.3074	162 30	0.4228	104
12	9.90	0.6806	334 28	1.3071	161 37	0.4433	140
13	10.06	0.6869	334 36	1.3067	160 43	0.4628	177
14	+ 10.22	0.6931	334 43	1.3063	159 50	0.4813	213
15	10.38	0.6993	334 50	1.3059	158 56	0.4989	250
16	10.53	0.7053	334 56	1.3055	158 2	0.5157	287
17	10.69	0.7112	335 2	1.3050	157 8	0.5318	323
18	10.84	0.7171	335 7	1.3046	156 14	0.5472	360
19	+ 10.99	0.7229	335 12	1.3041	155 20	0.5620	396
20	11.14	0.7285	335 17	1.3036	154 26	0.5761	433
21	11.29	0.7340	335 21	1.3031	153 31	0.5897	470
22	11.44	0.7395	335 25	1.3026	152 36	0.6027	506
23	11.59	0.7449	335 28	1.3021	151 42	0.6153	543
24	+ 11.73	0.7501	335 31	1.3016	150 47	0.6274	579
25	11.88	0.7553	335 34	1.3011	149 52	0.6391	616
26	12.02	0.7604	335 36	1.3005	148 57	0.6503	653
27	12.17	0.7654	335 38	1.2999	148 1	0.6612	689
28	12.31	0.7704	335 39	1.2994	147 6	0.6716	726
29	+ 12.45	0.7753	335 40	1.2988	146 10	0.6817	762
30	12.59	0.7801	335 41	1.2982	145 14	0.6915	799
31	12.73	0.7848	335 42	1.2976	144 18	0.7009	836
Aug. 1	12.86	0.7894	335 42	1.2970	143 22	0.7100	872
2	13.00	0.7939	335 42	1.2964	142 26	0.7188	909
3	+ 13.13	0.7984	335 42	1.2958	141 29	0.7273	945
4	13.27	0.8028	335 42	1.2952	140 33	0.7356	982
5	13.40	0.8071	335 42	1.2946	139 36	0.7435	019
6	13.53	0.8113	335 42	1.2940	138 39	0.7512	055
7	13.66	0.8155	335 41	1.2934	137 42	0.7587	092
8	+ 13.79	0.8196	335 41	1.2927	136 45	0.7659	128
9	13.92	0.8236	335 40	1.2921	135 47	0.7728	165
10	14.05	0.8275	335 40	1.2915	134 49	0.7796	202

Konstanten für die mittleren Tage 1909,
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12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>Q</i>
Aug. 10	+14.05	0.8275	335 40'	1.2915	134 49'	0.7796	202
11	14.17	0.8314	335 39	1.2909	133 51	0.7861	238
12	14.29	0.8352	335 38	1.2902	132 53	0.7924	275
13	14.41	0.8390	335 37	1.2896	131 55	0.7985	311
14	14.53	0.8427	335 36	1.2890	130 57	0.8044	348
15	+14.65	0.8463	335 35	1.2884	129 58	0.8101	385
16	14.77	0.8498	335 34	1.2877	128 59	0.8156	421
17	14.89	0.8533	335 33	1.2871	128 0	0.8209	458
18	15.01	0.8567	335 32	1.2865	127 1	0.8261	494
19	15.12	0.8601	335 31	1.2859	126 1	0.8310	531
20	+15.24	0.8634	335 30	1.2853	125 2	0.8358	568
21	15.35	0.8667	335 29	1.2847	124 2	0.8404	604
22	15.46	0.8699	335 28	1.2842	123 2	0.8448	641
23	15.57	0.8730	335 27	1.2836	122 2	0.8491	677
24	15.68	0.8761	335 26	1.2830	121 2	0.8533	714
25	+15.79	0.8791	335 25	1.2825	120 1	0.8572	751
26	15.90	0.8821	335 24	1.2819	119 0	0.8610	787
27	16.00	0.8850	335 24	1.2814	117 59	0.8647	824
28	16.11	0.8878	335 23	1.2809	116 58	0.8682	860
29	16.21	0.8906	335 23	1.2804	115 57	0.8715	897
30	+16.31	0.8934	335 22	1.2799	114 56	0.8747	934
31	16.41	0.8961	335 22	1.2794	113 54	0.8778	970
Sept. 1	16.51	0.8988	335 22	1.2789	112 52	0.8807	007
2	16.61	0.9014	335 22	1.2785	111 50	0.8834	043
3	16.71	0.9040	335 22	1.2781	110 48	0.8861	080
4	+16.81	0.9065	335 22	1.2777	109 46	0.8886	117
5	16.91	0.9090	335 22	1.2773	108 44	0.8909	153
6	17.01	0.9115	335 23	1.2769	107 41	0.8931	190
7	17.11	0.9139	335 23	1.2765	106 39	0.8952	226
8	17.20	0.9163	335 24	1.2762	105 36	0.8972	263
9	+17.30	0.9186	335 25	1.2759	104 33	0.8990	300
10	17.39	0.9209	335 26	1.2756	103 30	0.9007	336
11	17.49	0.9232	335 27	1.2753	102 27	0.9022	373
12	17.58	0.9254	335 29	1.2750	101 24	0.9037	409
13	17.67	0.9276	335 30	1.2748	100 20	0.9050	446
14	+17.76	0.9298	335 32	1.2746	99 17	0.9061	483
15	17.85	0.9319	335 34	1.2744	98 13	0.9072	519
16	17.95	0.9340	335 36	1.2742	97 10	0.9081	556

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

^{12h} Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>℄</i>
Sept. 16	+17.95	0.9340	335 36'	1.2742	97 10'	0.9081	556
17	18.04	0.9361	335 38	1.2741	96 6	0.9089	592
18	18.13	0.9381	335 41	1.2740	95 2	0.9096	629
19	18.22	0.9401	335 44	1.2739	93 58	0.9101	666
20	18.31	0.9421	335 47	1.2738	92 54	0.9105	702
21	+18.40	0.9441	335 50	1.2737	91 50	0.9108	739
22	18.49	0.9461	335 53	1.2737	90 46	0.9109	775
23	18.58	0.9480	335 56	1.2737	89 42	0.9110	812
24	18.67	0.9499	336 0	1.2737	88 38	0.9109	849
25	18.76	0.9518	336 4	1.2737	87 34	0.9106	885
26	+18.86	0.9537	336 8	1.2738	86 30	0.9103	922
27	18.95	0.9556	336 12	1.2739	85 26	0.9098	958
28	19.04	0.9574	336 17	1.2740	84 22	0.9092	995
29	19.13	0.9593	336 21	1.2741	83 18	0.9084	032
30	19.23	0.9611	336 26	1.2743	82 13	0.9076	068
Okt. 1	+19.32	0.9629	336 31	1.2745	81 9	0.9066	105
2	19.41	0.9647	336 37	1.2747	80 5	0.9054	141
3	19.50	0.9665	336 42	1.2749	79 1	0.9042	178
4	19.60	0.9683	336 48	1.2752	77 57	0.9028	215
5	19.69	0.9701	336 54	1.2755	76 53	0.9013	251
6	+19.79	0.9718	337 0	1.2758	75 49	0.8996	288
7	19.88	0.9736	337 6	1.2761	74 45	0.8978	324
8	19.98	0.9753	337 12	1.2764	73 41	0.8958	361
9	20.07	0.9770	337 19	1.2768	72 38	0.8937	398
10	20.17	0.9788	337 26	1.2772	71 34	0.8915	434
11	+20.27	0.9805	337 33	1.2776	70 30	0.8892	471
12	20.37	0.9823	337 40	1.2780	69 27	0.8867	507
13	20.47	0.9840	337 47	1.2784	68 23	0.8840	544
14	20.57	0.9858	337 55	1.2789	67 20	0.8812	581
15	20.67	0.9876	338 2	1.2793	66 16	0.8782	617
16	+20.78	0.9894	338 10	1.2798	65 13	0.8751	654
17	20.88	0.9911	338 18	1.2803	64 10	0.8719	690
18	20.99	0.9929	338 26	1.2808	63 7	0.8685	727
19	21.09	0.9947	338 34	1.2814	62 5	0.8649	764
20	21.20	0.9965	338 43	1.2819	61 2	0.8611	800
21	+21.31	0.9983	338 51	1.2825	59 59	0.8572	837
22	21.42	1.0001	339 0	1.2830	58 57	0.8531	873
23	21.53	1.0019	339 9	1.2836	57 54	0.8488	910

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

^{12^h} Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>Q</i>
Okt. 23	+21.53	1.0019	339 9	1.2836	57 54	0.8488	910
24	21.65	1.0038	339 18	1.2842	56 52	0.8444	947
25	21.76	1.0056	339 27	1.2848	55 50	0.8398	983
26	21.88	1.0075	339 36	1.2854	54 48	0.8350	020
27	21.99	1.0094	339 45	1.2860	53 46	0.8300	056
28	+22.11	1.0113	339 54	1.2867	52 45	0.8248	093
29	22.23	1.0132	340 3	1.2873	51 43	0.8194	130
30	22.35	1.0151	340 12	1.2879	50 42	0.8138	166
31	22.47	1.0170	340 21	1.2886	49 41	0.8080	203
Nov. 1	22.60	1.0190	340 31	1.2892	48 40	0.8020	239
2	+22.72	1.0210	340 40	1.2899	47 39	0.7958	276
3	22.85	1.0230	340 50	1.2905	46 38	0.7893	313
4	22.98	1.0250	340 59	1.2912	45 38	0.7826	349
5	23.11	1.0270	341 9	1.2918	44 37	0.7757	386
6	23.24	1.0290	341 19	1.2925	43 37	0.7685	422
7	+23.37	1.0311	341 28	1.2932	42 37	0.7610	459
8	23.50	1.0331	341 37	1.2938	41 37	0.7533	496
9	23.64	1.0352	341 46	1.2945	40 37	0.7453	532
10	23.77	1.0373	341 56	1.2951	39 37	0.7370	569
11	23.91	1.0394	342 5	1.2958	38 38	0.7284	605
12	+24.05	1.0416	342 14	1.2964	37 38	0.7195	642
13	24.19	1.0438	342 23	1.2970	36 39	0.7102	679
14	24.33	1.0460	342 32	1.2977	35 40	0.7006	715
15	24.48	1.0482	342 41	1.2983	34 41	0.6907	752
16	24.62	1.0504	342 50	1.2989	33 42	0.6804	788
17	+24.77	1.0526	342 59	1.2995	32 43	0.6696	825
18	24.92	1.0548	343 8	1.3001	31 45	0.6585	862
19	25.07	1.0571	343 17	1.3007	30 46	0.6470	898
20	25.22	1.0594	343 26	1.3013	29 48	0.6349	935
21	25.37	1.0617	343 34	1.3018	28 50	0.6224	971
22	+25.52	1.0640	343 42	1.3024	27 52	0.6094	008
23	25.68	1.0664	343 50	1.3029	26 54	0.5958	045
24	25.84	1.0687	343 58	1.3034	25 56	0.5817	081
25	26.00	1.0711	344 6	1.3039	24 59	0.5669	118
26	26.16	1.0734	344 14	1.3044	24 1	0.5514	154
27	+26.32	1.0758	344 21	1.3049	23 4	0.5352	191
28	26.48	1.0782	344 29	1.3054	22 7	0.5183	228
29	26.64	1.0806	344 36	1.3059	21 10	0.5005	264

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

^{12h} Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	⊙
Nov. 29	+26.64	1.0806	344 36	1.3059	21 10	0.5005	264
30	26.80	1.0830	344 43	1.3063	20 13	0.4819	301
Dez. 1	26.97	1.0854	344 50	1.3067	19 16	0.4622	337
2	27.13	1.0878	344 57	1.3071	18 19	0.4415	374
3	27.30	1.0903	345 3	1.3075	17 22	0.4195	411
4	+27.47	1.0927	345 9	1.3079	16 25	0.3963	447
5	27.64	1.0952	345 15	1.3082	15 28	0.3715	484
6	27.81	1.0976	345 21	1.3086	14 31	0.3452	520
7	27.98	1.1001	345 27	1.3089	13 35	0.3170	557
8	28.15	1.1025	345 33	1.3092	12 38	0.2866	594
9	+28.32	1.1050	345 38	1.3094	11 42	0.2538	630
10	28.49	1.1074	345 43	1.3097	10 46	0.2182	667
11	28.66	1.1099	345 48	1.3099	9 49	0.1792	703
12	28.83	1.1124	345 53	1.3101	8 53	0.1363	740
13	29.01	1.1148	345 57	1.3103	7 57	0.0884	777
14	+29.18	1.1173	346 1	1.3105	7 1	0.0345	813
15	29.36	1.1197	346 5	1.3107	6 5	9.9727	850
16	29.53	1.1222	346 9	1.3108	5 8	9.9005	886
17	29.71	1.1246	346 12	1.3109	4 12	9.8136	923
18	29.88	1.1271	346 16	1.3110	3 16	9.7047	960
19	+30.06	1.1295	346 19	1.3111	2 20	9.5587	996
20	30.23	1.1320	346 22	1.3111	1 24	9.3373	033
21	30.41	1.1344	346 25	1.3111	0 28	8.8609	069
22	30.58	1.1368	346 28	1.3111	359 32	8.8585 _n	106
23	30.76	1.1392	346 30	1.3111	358 36	9.3367 _n	143
24	+30.93	1.1416	346 32	1.3111	357 40	9.5586 _n	179
25	31.11	1.1440	346 34	1.3110	356 44	9.7047 _n	216
26	31.29	1.1464	346 36	1.3109	355 48	9.8136 _n	253
27	31.47	1.1488	346 38	1.3108	354 52	9.9006 _n	289
28	31.65	1.1512	346 39	1.3107	353 55	9.9729 _n	326
29	+31.82	1.1535	346 40	1.3105	352 59	0.0348 _n	362
30	32.00	1.1559	346 41	1.3103	352 3	0.0888 _n	399
31	32.17	1.1582	346 42	1.3101	351 6	0.1367 _n	436
32	32.35	1.1605	346 43	1.3099	350 10	0.1797 _n	472
33	32.52	1.1628	346 43	1.3097	349 14	0.2187 _n	509
34	+32.69	1.1651	346 44	1.3094	348 17	0.2544 _n	545
35	32.86	1.1673	346 44	1.3092	347 21	0.2872 _n	582
36	33.03	1.1696	346 44	1.3089	346 24	0.3176 _n	619

Konstanten für die mittleren Tage 1909,
ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Okt. 23	+21.53	1.0019	339 9	1.2836	57 54	0.8488	910
24	21.65	1.0038	339 18	1.2842	56 52	0.8444	947
25	21.76	1.0056	339 27	1.2848	55 50	0.8398	983
26	21.88	1.0075	339 36	1.2854	54 48	0.8350	020
27	21.99	1.0094	339 45	1.2860	53 46	0.8300	056
28	+22.11	1.0113	339 54	1.2867	52 45	0.8248	093
29	22.23	1.0132	340 3	1.2873	51 43	0.8194	130
30	22.35	1.0151	340 12	1.2879	50 42	0.8138	166
31	22.47	1.0170	340 21	1.2886	49 41	0.8080	203
Nov. 1	22.60	1.0190	340 31	1.2892	48 40	0.8020	239
2	+22.72	1.0210	340 40	1.2899	47 39	0.7958	276
3	22.85	1.0230	340 50	1.2905	46 38	0.7893	313
4	22.98	1.0250	340 59	1.2912	45 38	0.7826	349
5	23.11	1.0270	341 9	1.2918	44 37	0.7757	386
6	23.24	1.0290	341 19	1.2925	43 37	0.7685	422
7	+23.37	1.0311	341 28	1.2932	42 37	0.7610	459
8	23.50	1.0331	341 37	1.2938	41 37	0.7533	496
9	23.64	1.0352	341 46	1.2945	40 37	0.7453	532
10	23.77	1.0373	341 56	1.2951	39 37	0.7370	569
11	23.91	1.0394	342 5	1.2958	38 38	0.7284	605
12	+24.05	1.0416	342 14	1.2964	37 38	0.7195	642
13	24.19	1.0438	342 23	1.2970	36 39	0.7102	679
14	24.33	1.0460	342 32	1.2977	35 40	0.7006	715
15	24.48	1.0482	342 41	1.2983	34 41	0.6907	752
16	24.62	1.0504	342 50	1.2989	33 42	0.6804	788
17	+24.77	1.0526	342 59	1.2995	32 43	0.6696	825
18	24.92	1.0548	343 8	1.3001	31 45	0.6585	862
19	25.07	1.0571	343 17	1.3007	30 46	0.6470	898
20	25.22	1.0594	343 26	1.3013	29 48	0.6349	935
21	25.37	1.0617	343 34	1.3018	28 50	0.6224	971
22	+25.52	1.0640	343 42	1.3024	27 52	0.6094	008
23	25.68	1.0664	343 50	1.3029	26 54	0.5958	045
24	25.84	1.0687	343 58	1.3034	25 56	0.5817	081
25	26.00	1.0711	344 6	1.3039	24 59	0.5669	118
26	26.16	1.0734	344 14	1.3044	24 1	0.5514	154
27	+26.32	1.0758	344 21	1.3049	23 4	0.5352	191
28	26.48	1.0782	344 29	1.3054	22 7	0.5183	228
29	26.64	1.0806	344 36	1.3059	21 10	0.5005	264

Konstanten für die mittleren Tage 1909,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>C</i>
Nov. 29	+26.64	I.0806	344 36	I.3059	21 10	0.5005	264
30	26.80	I.0830	344 43	I.3063	20 13	0.4819	301
Dez. 1	26.97	I.0854	344 50	I.3067	19 16	0.4622	337
2	27.13	I.0878	344 57	I.3071	18 19	0.4415	374
3	27.30	I.0903	345 3	I.3075	17 22	0.4195	411
4	+27.47	I.0927	345 9	I.3079	16 25	0.3963	447
5	27.64	I.0952	345 15	I.3082	15 28	0.3715	484
6	27.81	I.0976	345 21	I.3086	14 31	0.3452	520
7	27.98	I.1001	345 27	I.3089	13 35	0.3170	557
8	28.15	I.1025	345 33	I.3092	12 38	0.2866	594
9	+28.32	I.1050	345 38	I.3094	11 42	0.2538	630
10	28.49	I.1074	345 43	I.3097	10 46	0.2182	667
11	28.66	I.1099	345 48	I.3099	9 49	0.1792	703
12	28.83	I.1124	345 53	I.3101	8 53	0.1363	740
13	29.01	I.1148	345 57	I.3103	7 57	0.0884	777
14	+29.18	I.1173	346 1	I.3105	7 1	0.0345	813
15	29.36	I.1197	346 5	I.3107	6 5	9.9727	850
16	29.53	I.1222	346 9	I.3108	5 8	9.9005	886
17	29.71	I.1246	346 12	I.3109	4 12	9.8136	923
18	29.88	I.1271	346 16	I.3110	3 16	9.7047	960
19	+30.06	I.1295	346 19	I.3111	2 20	9.5587	996
20	30.23	I.1320	346 22	I.3111	1 24	9.3373	033
21	30.41	I.1344	346 25	I.3111	0 28	8.8609	069
22	30.58	I.1368	346 28	I.3111	359 32	8.8585 _n	106
23	30.76	I.1392	346 30	I.3111	358 36	9.3367 _n	143
24	+30.93	I.1416	346 32	I.3111	357 40	9.5586 _n	179
25	31.11	I.1440	346 34	I.3110	356 44	9.7047 _n	216
26	31.29	I.1464	346 36	I.3109	355 48	9.8136 _n	253
27	31.47	I.1488	346 38	I.3108	354 52	9.9006 _n	289
28	31.65	I.1512	346 39	I.3107	353 55	9.9729 _n	326
29	+31.82	I.1535	346 40	I.3105	352 59	0.0348 _n	362
30	32.00	I.1559	346 41	I.3103	352 3	0.0888 _n	399
31	32.17	I.1582	346 42	I.3101	351 6	0.1367 _n	436
32	32.35	I.1605	346 43	I.3099	350 10	0.1797 _n	472
33	32.52	I.1628	346 43	I.3097	349 14	0.2187 _n	509
34	+32.69	I.1651	346 44	I.3094	348 17	0.2544 _n	545
35	32.86	I.1673	346 44	I.3092	347 21	0.2872 _n	582
36	33.03	I.1696	346 44	I.3089	346 24	0.3176 _n	619

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1909.

	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	5.329 _n	8.946 _n	0.00	8.946	269.7	350	7.694	8.436	+0.23	9.012	15.4
010	6.647 _n	8.943 _n	-0.02	8.945	264.2	360	7.701	8.219	+0.23	9.009	9.3
020	6.934 _n	8.933 _n	-0.04	8.941	258.6	370	7.702	7.744	+0.23	9.004	3.1
030	7.100 _n	8.915 _n	-0.06	8.934	252.9	380	7.696	7.744 _n	+0.23	8.999	356.8
040	7.214 _n	8.889 _n	-0.08	8.925	247.0	390	7.685	8.219 _n	+0.22	8.993	350.3
050	7.297 _n	8.854 _n	-0.09	8.913	240.9	400	7.668	8.436 _n	+0.21	8.988	343.7
060	7.361 _n	8.809 _n	-0.11	8.899	234.5	410	7.643	8.576 _n	+0.20	8.982	336.9
070	7.409 _n	8.751 _n	-0.12	8.882	227.6	420	7.611	8.675 _n	+0.19	8.976	329.9
080	7.445 _n	8.675 _n	-0.13	8.865	220.3	430	7.569	8.751 _n	+0.17	8.970	322.8
090	7.471 _n	8.576 _n	-0.14	8.847	212.4	440	7.516	8.809 _n	+0.15	8.964	315.6
100	7.488 _n	8.436 _n	-0.14	8.829	203.9	450	7.449	8.854 _n	+0.13	8.959	308.3
110	7.496 _n	8.219 _n	-0.14	8.813	194.8	460	7.362	8.889 _n	+0.11	8.955	300.8
120	7.496 _n	7.744 _n	-0.14	8.800	185.1	470	7.246	8.915 _n	+0.08	8.952	293.2
130	7.488 _n	7.744	-0.14	8.792	174.9	480	7.078	8.933 _n	+0.06	8.949	285.6
140	7.470 _n	8.219	-0.14	8.789	164.4	490	6.787	8.943 _n	+0.03	8.947	278.0
150	7.443 _n	8.436	-0.13	8.792	153.8	500	5.329	8.946 _n	0.00	8.946	270.3
160	7.405 _n	8.576	-0.12	8.802	143.5	510	6.756 _n	8.943 _n	-0.03	8.947	262.6
170	7.352 _n	8.675	-0.10	8.816	133.6	520	7.062 _n	8.933 _n	-0.05	8.948	254.9
180	7.282 _n	8.751	-0.09	8.833	124.2	530	7.235 _n	8.915 _n	-0.08	8.950	247.3
190	7.185 _n	8.809	-0.07	8.853	115.4	540	7.354 _n	8.889 _n	-0.11	8.953	239.7
200	7.045 _n	8.854	-0.05	8.874	107.2	550	7.443 _n	8.854 _n	-0.13	8.957	232.2
210	6.816 _n	8.889	-0.03	8.895	99.6	560	7.511 _n	8.809 _n	-0.15	8.962	224.8
220	6.243 _n	8.915	-0.01	8.915	92.4	570	7.565 _n	8.751 _n	-0.17	8.967	217.5
230	6.508	8.933	+0.02	8.934	85.7	580	7.607 _n	8.675 _n	-0.19	8.973	210.3
240	6.919	8.943	+0.04	8.951	79.3	590	7.640 _n	8.576 _n	-0.20	8.979	203.3
250	7.128	8.946	+0.06	8.966	73.1	600	7.665 _n	8.436 _n	-0.21	8.985	196.4
260	7.266	8.943	+0.09	8.979	67.1	610	7.682 _n	8.219 _n	-0.22	8.991	189.7
270	7.369	8.933	+0.11	8.990	61.3	620	7.694 _n	7.744 _n	-0.23	8.996	183.2
280	7.449	8.915	+0.13	8.999	55.6	630	7.699 _n	7.744	-0.23	9.002	176.8
290	7.512	8.889	+0.15	9.006	49.9	640	7.698 _n	8.219	-0.23	9.006	170.6
300	7.564	8.854	+0.17	9.011	44.3	650	7.692 _n	8.436	-0.23	9.010	164.5
310	7.605	8.809	+0.19	9.014	38.6	660	7.680 _n	8.576	-0.22	9.013	158.6
320	7.638	8.751	+0.20	9.016	32.9	670	7.661 _n	8.675	-0.21	9.014	152.7
330	7.663	8.675	+0.21	9.016	27.2	680	7.636 _n	8.751	-0.20	9.014	147.0
340	7.682	8.576	+0.22	9.015	21.3	690	7.603 _n	8.809	-0.19	9.013	141.3
350	7.694	8.436	+0.23	9.012	15.4	700	7.562 _n	8.854	-0.17	9.010	135.6

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1909.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.562 _n	8.854	-0.17	9.010	135.6	850	7.439	8.436	+0.13	8.789	26.4
710	7.511 _n	8.889	-0.15	9.005	130.0	860	7.466	8.219	+0.14	8.785	15.8
720	7.448 _n	8.915	-0.13	8.998	124.4	870	7.483	7.744	+0.14	8.787	5.2
730	7.368 _n	8.933	-0.11	8.989	118.7	880	7.492	7.744 _n	+0.14	8.795	354.9
740	7.266 _n	8.943	-0.09	8.979	112.9	890	7.492	8.219 _n	+0.14	8.808	345.1
750	7.128 _n	8.946	-0.06	8.966	106.9	900	7.483	8.436 _n	+0.14	8.825	335.9
760	6.921 _n	8.943	-0.04	8.951	100.8	910	7.466	8.576 _n	+0.14	8.843	327.3
770	6.516 _n	8.933	-0.02	8.934	94.4	920	7.439	8.675 _n	+0.13	8.861	319.3
780	6.223	8.915	+0.01	8.915	87.7	930	7.403	8.751 _n	+0.12	8.879	311.9
790	6.809	8.889	+0.03	8.895	80.5	940	7.353	8.809 _n	+0.10	8.896	305.0
800	7.039	8.854	+0.05	8.874	72.9	950	7.288	8.854 _n	+0.09	8.911	298.6
810	7.180	8.809	+0.07	8.853	64.8	960	7.203	8.889 _n	+0.07	8.923	292.4
820	7.277	8.751	+0.09	8.832	56.0	970	7.085	8.915 _n	+0.06	8.933	286.5
830	7.348	8.675	+0.10	8.814	46.7	980	6.912	8.933 _n	+0.04	8.940	280.8
840	7.401	8.576	+0.12	8.799	36.7	990	6.604	8.943 _n	+0.02	8.945	275.2
850	7.439	8.436	+0.13	8.789	26.4	000	5.329 _n	8.946 _n	0.00	8.946	269.7

Korrektion der Schiefe der Ekliptik für die Glieder von kurzer Periode.

Argument ☾	Δε	Argument ☾	Δε	Argument ☾	Δε	
000	500	+0.09	200	700	-0.07	
020	520	+0.09	220	720	-0.08	
040	540	+0.08	240	740	-0.09	
060	560	+0.07	260	760	-0.09	
080	580	+0.05	280	780	-0.08	
100	600	+0.03	300	800	-0.07	
120	620	+0.01	320	820	-0.06	
140	640	-0.02	340	840	-0.04	
160	660	-0.04	360	860	-0.02	
180	680	-0.06	380	880	+0.01	
200	700	-0.07	400	900	+0.03	
				400	900	+0.03
				420	920	+0.05
				440	940	+0.07
				460	960	+0.08
				480	980	+0.09
				500	000	+0.09

Konstanten für die Sterntage 1909,
gültig für die Sternzeitepochen 7^h 23^m.9 Berlin.

Datum in Mittl. Zeit		t	log. A	log. B	log. C	log. D	C
Jan	0.530	0.0000	9.5235 _n	9.6002 _n	0.5116 _n	1.3045	-3.28
	1.528	0.0027	9.5194 _n	9.5755 _n	0.5533 _n	1.3031	3.55
	2.525	0.0055	9.5142 _n	9.5470 _n	0.5913 _n	1.3015	3.92
	3.522	0.0082	9.5080 _n	9.5248 _n	0.6260 _n	1.2998	4.27
	4.520	0.0109	9.5010 _n	9.5193 _n	0.6581 _n	1.2980	4.55
	5.517	0.0136	9.4936 _n	9.5371 _n	0.6879 _n	1.2960	-4.81
	6.514	0.0164	9.4863 _n	9.5759 _n	0.7155 _n	1.2938	5.194
	7.511	0.0191	9.4797 _n	9.6284 _n	0.7415 _n	1.2915	5.515
	8.509	0.0218	9.4741 _n	9.6839 _n	0.7658 _n	1.2891	5.821
	9.506	0.0246	9.4698 _n	9.7350 _n	0.7887 _n	1.2865	6.117
	10.503	0.0273	9.4666 _n	9.7760 _n	0.8103 _n	1.2838	-6.401
	11.500	0.0300	9.4643 _n	9.8045 _n	0.8308 _n	1.2809	
	12.498	0.0328	9.4623 _n	9.8202 _n	0.8502 _n	1.2778	
	13.495	0.0355	9.4600 _n	9.8242 _n	0.8686 _n	1.2746	
	14.492	0.0382	9.4569 _n	9.8190 _n	0.8862 _n	1.2712	
	15.489	0.0410	9.4527 _n	9.8084 _n	0.9029 _n	1.2677	
	16.487	0.0437	9.4470 _n	9.7979 _n	0.9189 _n	1.2640	
	17.484	0.0464	9.4400 _n	9.7931 _n	0.9342 _n	1.2601	
	18.481	0.0491	9.4320 _n	9.7986 _n	0.9488 _n	1.2560	
	19.479	0.0519	9.4235 _n	9.8164 _n	0.9628 _n	1.2518	
	20.476	0.0546	9.4152 _n	9.8447 _n	0.9763 _n	1.2474	
	21.473	0.0573	9.4075 _n	9.8794 _n	0.9892 _n	1.2428	
	22.470	0.0601	9.4011 _n	9.9156 _n	1.0016 _n	1.2381	
	23.468	0.0628	9.3959 _n	9.9485 _n	1.0135 _n	1.2331	
	24.465	0.0655	9.3921 _n	9.9750 _n	1.0250 _n	1.2280	
	25.462	0.0683	9.3891 _n	9.9935 _n	1.0360 _n	1.2226	
	26.459	0.0710	9.3863 _n	0.0035 _n	1.0467 _n	1.2171	
	27.457	0.0737	9.3831 _n	0.0054 _n	1.0569 _n	1.2113	
	28.454	0.0764	9.3790 _n	0.0032 _n	1.0668 _n	1.2053	
	29.451	0.0792	9.3736 _n	9.9978 _n	1.0763 _n	1.1991	
	30.449	0.0819	9.3667 _n	9.9935 _n	1.0855 _n	1.1927	
	31.446	0.0846	9.3585 _n	9.9937 _n	1.0943 _n	1.1861	
Febr.	1.443	0.0874	9.3497 _n	0.0009 _n	1.1029 _n	1.1792	
	2.440	0.0901	9.3406 _n	0.0156 _n	1.1111 _n	1.1720	
	3.438	0.0928	9.3323 _n	0.0367 _n	1.1191 _n	1.1646	
	4.435	0.0956	9.3252 _n	0.0614 _n	1.1267 _n	1.1570	
	5.432	0.0983	9.3199 _n	0.0864 _n	1.1341 _n	1.1491	
	6.429	0.1010	9.3163 _n	0.1088 _n	1.1413 _n	1.1408	

$$E = -0.04$$

Konstanten für die Sterntage 1909,
gültig für die Sternzeitepochen 7^h 23^m.9 Berlin.

Datum in Mittl. Zeit	<i>t</i>	log. <i>A</i>	log. <i>B</i>	log. <i>C</i>	log. <i>D</i>	<i>D</i>
Febr. 6.429	0.1010	9.3163 _n	0.1088 _n	1.1413 _n	1.1408	
7.427	0.1038	9.3143 _n	0.1263 _n	1.1482 _n	1.1323	
8.424	0.1065	9.3130 _n	0.1381 _n	1.1548 _n	1.1235	
9.421	0.1092	9.3118 _n	0.1438 _n	1.1612 _n	1.1144	
10.418	0.1120	9.3097 _n	0.1444 _n	1.1674 _n	1.1049	
11.416	0.1147	9.3062 _n	0.1414 _n	1.1734 _n	1.0952	
12.413	0.1174	9.3008 _n	0.1373 _n	1.1791 _n	1.0850	
13.410	0.1201	9.2935 _n	0.1347 _n	1.1847 _n	1.0745	
14.408	0.1229	9.2846 _n	0.1359 _n	1.1900 _n	1.0635	
15.405	0.1256	9.2747 _n	0.1423 _n	1.1952 _n	1.0522	
16.402	0.1283	9.2646 _n	0.1542 _n	1.2001 _n	1.0404	
17.399	0.1311	9.2552 _n	0.1702 _n	1.2048 _n	1.0282	
18.397	0.1338	9.2473 _n	0.1884 _n	1.2094 _n	1.0154	
19.394	0.1365	9.2413 _n	0.2064 _n	1.2138 _n	1.0022	
20.391	0.1393	9.2372 _n	0.2220 _n	1.2180 _n	0.9884	
21.388	0.1420	9.2346 _n	0.2336 _n	1.2220 _n	0.9740	
22.386	0.1447	9.2327 _n	0.2405 _n	1.2259 _n	0.9590	
23.383	0.1474	9.2306 _n	0.2427 _n	1.2296 _n	0.9433	
24.380	0.1502	9.2274 _n	0.2411 _n	1.2331 _n	0.9269	
25.378	0.1529	9.2225 _n	0.2371 _n	1.2365 _n	0.9098	
26.375	0.1556	9.2156 _n	0.2328 _n	1.2397 _n	0.8918	
27.372	0.1584	9.2066 _n	0.2302 _n	1.2427 _n	0.8729	
28.369	0.1611	9.1962 _n	0.2310 _n	1.2456 _n	0.8530	
März 1.367	0.1638	9.1853 _n	0.2361 _n	1.2483 _n	0.8320	
2.364	0.1666	9.1749 _n	0.2455 _n	1.2509 _n	0.8098	+6.454
3.361	0.1693	9.1660 _n	0.2580 _n	1.2534 _n	0.7863	+6.114
4.358	0.1720	9.1594 _n	0.2717 _n	1.2557 _n	0.7614	5.773
5.356	0.1747	9.1554 _n	0.2849 _n	1.2578 _n	0.7347	5.429
6.353	0.1775	9.1537 _n	0.2958 _n	1.2598 _n	0.7063	5.085
7.350	0.1802	9.1536 _n	0.3030 _n	1.2617 _n	0.6757	4.739
8.348	0.1829	9.1540 _n	0.3061 _n	1.2634 _n	0.6426	+4.392
9.345	0.1857	9.1536 _n	0.3054 _n	1.2650 _n	0.6067	4.043
10.342	0.1884	9.1514 _n	0.3016 _n	1.2665 _n	0.5675	3.694
11.339	0.1911	9.1467 _n	0.2962 _n	1.2678 _n	0.5242	3.343
12.337	0.1939	9.1391 _n	0.2909 _n	1.2690 _n	0.4760	2.992
13.334	0.1966	9.1289 _n	0.2876 _n	1.2700 _n	0.4217	+2.641
14.331	0.1993	9.1169 _n	0.2876 _n	1.2709 _n	0.3595	2.288
15.328	0.2021	9.1039 _n	0.2915 _n	1.2717 _n	0.2867	1.935

$E = -0.04$

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D		
März	15.328	0.2021	9.1039 _n	0.2915 _n	1.2717 _n	0.2867	+1.935	
	16.326	0.2048	9.0914 _n	0.2989 _n	1.2724 _n	0.1992	1.582	
	17.323	0.2075	9.0804 _n	0.3088 _n	1.2729 _n	0.0892	1.228	
	18.320	0.2102	9.0721 _n	0.3195 _n	1.2733 _n	9.9417	0.874	
	19.317	0.2130	9.0665 _n	0.3292 _n	1.2735 _n	9.7165	0.521	
	20.315	0.2157	9.0634 _n	0.3364 _n	1.2737 _n	9.2221	+0.167	
	21.312	0.2184	9.0616 _n	0.3401 _n	1.2737 _n	9.2716 _n	-0.187	
	22.309	0.2212	9.0601 _n	0.3402 _n	1.2735 _n	9.7327 _n	0.540	
	23.307	0.2239	9.0574 _n	0.3367 _n	1.2733 _n	9.9510 _n	0.893	
	24.304	0.2266	9.0524 _n	0.3308 _n	1.2729 _n	0.0955 _n	1.246	
	25.301	0.2294	9.0441 _n	0.3237 _n	1.2723 _n	0.2035 _n	-1.598	
	26.298	0.2321	9.0328 _n	0.3173 _n	1.2717 _n	0.2898 _n	1.949	
	27.296	0.2348	9.0187 _n	0.3131 _n	1.2709 _n	0.3617 _n	2.300	
	28.293	0.2375	9.0029 _n	0.3123 _n	1.2700 _n	0.4231 _n	2.649	
	29.290	0.2403	8.9869 _n	0.3152 _n	1.2690 _n	0.4768 _n	2.998	
	30.287	0.2430	8.9723 _n	0.3213 _n	1.2678 _n	0.5245 _n	-3.346	
	31.285	0.2457	8.9608 _n	0.3294 _n	1.2665 _n	0.5673 _n	3.692	
	April	1.282	0.2485	8.9530 _n	0.3377 _n	1.2651 _n	0.6061 _n	4.037
		2.279	0.2512	8.9492 _n	0.3448 _n	1.2635 _n	0.6416 _n	4.381
		3.277	0.2539	8.9484 _n	0.3492 _n	1.2618 _n	0.6742 _n	4.723
4.274		0.2567	8.9489 _n	0.3501 _n	1.2600 _n	0.7045 _n	-5.064	
5.271		0.2594	8.9489 _n	0.3474 _n	1.2580 _n	0.7326 _n	5.403	
6.268		0.2621	8.9464 _n	0.3415 _n	1.2559 _n	0.7589 _n	5.740	
7.266		0.2649	8.9401 _n	0.3335 _n	1.2537 _n	0.7835 _n	6.075	
8.263		0.2676	8.9292 _n	0.3248 _n	1.2513 _n	0.8068 _n	6.409	
9.260		0.2703	8.9135 _n	0.3173 _n	1.2488 _n	0.8286 _n		
10.257		0.2730	8.8936 _n	0.3124 _n	1.2461 _n	0.8494 _n		
11.255		0.2758	8.8707 _n	0.3110 _n	1.2433 _n	0.8690 _n		
12.252		0.2785	8.8468 _n	0.3134 _n	1.2403 _n	0.8876 _n		
13.249		0.2812	8.8244 _n	0.3188 _n	1.2373 _n	0.9054 _n		
14.246		0.2840	8.8053 _n	0.3257 _n	1.2340 _n	0.9223 _n		
15.244		0.2867	8.7909 _n	0.3325 _n	1.2306 _n	0.9385 _n		
16.241		0.2894	8.7810 _n	0.3376 _n	1.2271 _n	0.9539 _n		
17.238		0.2922	8.7743 _n	0.3398 _n	1.2234 _n	0.9687 _n		
18.236		0.2949	8.7689 _n	0.3383 _n	1.2196 _n	0.9829 _n		
19.233		0.2976	8.7618 _n	0.3332 _n	1.2156 _n	0.9965 _n		
20.230	0.3003	8.7505 _n	0.3250 _n	1.2114 _n	1.0095 _n			
21.227	0.3031	8.7330 _n	0.3152 _n	1.2071 _n	1.0221 _n			

$$E = -0.04$$

Konstanten für die Sterntage 1909,
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Datum in Mittl. Zeit	<i>t</i>	log. <i>A</i>	log. <i>B</i>	log. <i>C</i>	log. <i>D</i>
April 21.227	0.3031	8.7330 _n	0.3152 _n	1.2071 _n	1.0221 _n
22.225	0.3058	8.7078 _n	0.3052 _n	1.2026 _n	1.0341 _n
23.222	0.3085	8.6749 _n	0.2969 _n	1.1979 _n	1.0458 _n
24.219	0.3113	8.6347 _n	0.2917 _n	1.1930 _n	1.0569 _n
25.216	0.3140	8.5895 _n	0.2904 _n	1.1880 _n	1.0677 _n
26.214	0.3167	8.5430 _n	0.2929 _n	1.1828 _n	1.0781 _n
27.211	0.3195	8.4994 _n	0.2983 _n	1.1774 _n	1.0881 _n
28.208	0.3222	8.4633 _n	0.3049 _n	1.1718 _n	1.0978 _n
29.206	0.3249	8.4371 _n	0.3108 _n	1.1661 _n	1.1071 _n
30.203	0.3277	8.4214 _n	0.3147 _n	1.1601 _n	1.1161 _n
Mai 1.200	0.3304	8.4118 _n	0.3151 _n	1.1539 _n	1.1248 _n
2.197	0.3331	8.4028 _n	0.3117 _n	1.1475 _n	1.1332 _n
3.195	0.3358	8.3872 _n	0.3047 _n	1.1409 _n	1.1413 _n
4.192	0.3386	8.3579 _n	0.2947 _n	1.1340 _n	1.1492 _n
5.189	0.3413	8.3081 _n	0.2835 _n	1.1270 _n	1.1567 _n
6.186	0.3440	8.2284 _n	0.2727 _n	1.1197 _n	1.1641 _n
7.184	0.3468	8.1082 _n	0.2643 _n	1.1121 _n	1.1711 _n
8.181	0.3495	7.9159 _n	0.2596 _n	1.1043 _n	1.1780 _n
9.178	0.3522	7.5453 _n	0.2593 _n	1.0962 _n	1.1846 _n
10.175	0.3550	6.9685	0.2629 _n	1.0879 _n	1.1910 _n
11.173	0.3577	7.6821	0.2691 _n	1.0792 _n	1.1971 _n
12.170	0.3604	7.8987	0.2761 _n	1.0703 _n	1.2031 _n
13.167	0.3631	8.0124	0.2821 _n	1.0610 _n	1.2088 _n
14.165	0.3659	8.0828	0.2852 _n	1.0515 _n	1.2144 _n
15.162	0.3686	8.1339	0.2846 _n	1.0416 _n	1.2198 _n
16.159	0.3713	8.1813	0.2799 _n	1.0313 _n	1.2249 _n
17.156	0.3741	8.2353	0.2716 _n	1.0207 _n	1.2299 _n
18.154	0.3768	8.2980	0.2607 _n	1.0097 _n	1.2347 _n
19.151	0.3795	8.3681	0.2490 _n	0.9983 _n	1.2394 _n
20.148	0.3823	8.4407	0.2384 _n	0.9864 _n	1.2439 _n
21.145	0.3850	8.5103	0.2311 _n	0.9741 _n	1.2482 _n
22.143	0.3877	8.5730	0.2281 _n	0.9614 _n	1.2523 _n
23.140	0.3904	8.6261	0.2299 _n	0.9481 _n	1.2563 _n
24.137	0.3932	8.6689	0.2356 _n	0.9343 _n	1.2601 _n
25.135	0.3959	8.7011	0.2435 _n	0.9199 _n	1.2637 _n
26.132	0.3986	8.7244	0.2518 _n	0.9049 _n	1.2672 _n
27.129	0.4014	8.7400	0.2582 _n	0.8892 _n	1.2706 _n
28.126	0.4041	8.7510	0.2615 _n	0.8728 _n	1.2738 _n

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Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	ϵ	
Mai	28.126	0.4041	8.7510	0.2615 _n	0.8728 _n	1.2738 _n	-7.461
	29.124	0.4068	8.7602	0.2606 _n	0.8557 _n	1.2769 _n	7.17
	30.121	0.4096	8.7708	0.2555 _n	0.8377 _n	1.2798 _n	6.82
Juni	31.118	0.4123	8.7850	0.2469 _n	0.8189 _n	1.2826 _n	6.52
	1.115	0.4150	8.8044	0.2363 _n	0.7990 _n	1.2852 _n	6.295
	2.113	0.4178	8.8287	0.2254 _n	0.7781 _n	1.2877 _n	-5.000
	3.110	0.4205	8.8567	0.2167 _n	0.7560 _n	1.2901 _n	5.72
	4.107	0.4232	8.8864	0.2118 _n	0.7327 _n	1.2923 _n	5.47
	5.105	0.4259	8.9155	0.2117 _n	0.7079 _n	1.2945 _n	5.15
	6.102	0.4287	8.9421	0.2165 _n	0.6814 _n	1.2964 _n	4.81
	7.099	0.4314	8.9649	0.2249 _n	0.6531 _n	1.2983 _n	-4.48
	8.096	0.4341	8.9834	0.2350 _n	0.6226 _n	1.3000 _n	4.16
	9.094	0.4369	8.9976	0.2447 _n	0.5898 _n	1.3016 _n	3.82
	10.091	0.4396	9.0091	0.2521 _n	0.5542 _n	1.3031 _n	3.52
	11.088	0.4423	9.0176	0.2559 _n	0.5153 _n	1.3044 _n	3.27
	12.085	0.4451	9.0260	0.2553 _n	0.4724 _n	1.3056 _n	-2.97
	13.083	0.4478	9.0352	0.2508 _n	0.4248 _n	1.3067 _n	2.62
	14.080	0.4505	9.0466	0.2432 _n	0.3710 _n	1.3077 _n	2.31
	15.077	0.4532	9.0606	0.2341 _n	0.3096 _n	1.3085 _n	2.01
	16.074	0.4560	9.0770	0.2256 _n	0.2379 _n	1.3093 _n	1.72
	17.072	0.4587	9.0951	0.2199 _n	0.1518 _n	1.3099 _n	-1.47
	18.069	0.4614	9.1135	0.2185 _n	0.0442 _n	1.3104 _n	1.17
	19.066	0.4642	9.1311	0.2220 _n	9.9006 _n	1.3107 _n	0.87
	20.064	0.4669	9.1468	0.2299 _n	9.6847 _n	1.3110 _n	0.57
	21.061	0.4696	9.1600	0.2408 _n	9.2357 _n	1.3111 _n	-0.17
	22.058	0.4724	9.1701	0.2527 _n	9.1454 _n	1.3111 _n	+0.12
	23.055	0.4751	9.1777	0.2635 _n	9.6546 _n	1.3110 _n	0.82
	24.053	0.4778	9.1830	0.2715 _n	9.8826 _n	1.3108 _n	0.52
	25.050	0.4806	9.1872	0.2758 _n	0.0311 _n	1.3104 _n	1.22
26.047	0.4833	9.1914	0.2760 _n	0.1416 _n	1.3099 _n	1.92	
27.044	0.4860	9.1968	0.2725 _n	0.2294 _n	1.3093 _n	+1.60	
28.042	0.4887	9.2039	0.2666 _n	0.3024 _n	1.3086 _n	2.30	
29.039	0.4915	9.2132	0.2600 _n	0.3647 _n	1.3078 _n	2.97	
30.036	0.4942	9.2246	0.2547 _n	0.4191 _n	1.3068 _n	3.62	
Juli	1.034	0.4969	9.2373	0.2525 _n	0.4673 _n	1.3058 _n	4.27
	2.031	0.4997	9.2505	0.2545 _n	0.5106 _n	1.3046 _n	+3.2
	3.028	0.5024	9.2634	0.2610 _n	0.5498 _n	1.3032 _n	3.54
	4.025	0.5051	9.2750	0.2711 _n	0.5857 _n	1.3018 _n	3.82

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Datum in Mittl. Zeit	<i>t</i>	log. A	log. B	log. C	log. D	C
uli 4.025	0.5051	9.2750	0.2711 _n	0.5857	1.3018 _n	+3.852
5.023	0.5079	9.2849	0.2834 _n	0.6187	1.3002 _n	4.157
6.020	0.5106	9.2927	0.2959 _n	0.6493	1.2985 _n	4.460
7.017	0.5133	9.2987	0.3069 _n	0.6778	1.2967 _n	4.762
8.014	0.5160	9.3035	0.3149 _n	0.7044	1.2947 _n	5.063
9.012	0.5188	9.3077	0.3192 _n	0.7293	1.2927 _n	+5.362
10.009	0.5215	9.3121	0.3199 _n	0.7528	1.2904 _n	5.660
11.006	0.5242	9.3174	0.3176 _n	0.7750	1.2881 _n	5.956
12.003	0.5270	9.3240	0.3135 _n	0.7960	1.2856 _n	6.251
13.001	0.5297	9.3321	0.3093 _n	0.8159	1.2830 _n	6.544
13.998	0.5324	9.3414	0.3068 _n	0.8348	1.2803 _n	
14.995	0.5352	9.3514	0.3074 _n	0.8528	1.2774 _n	
15.993	0.5379	9.3613	0.3118 _n	0.8700	1.2743 _n	
16.990	0.5406	9.3706	0.3200 _n	0.8864	1.2712 _n	
17.987	0.5433	9.3785	0.3310 _n	0.9021	1.2679 _n	
18.984	0.5461	9.3848	0.3434 _n	0.9171	1.2644 _n	
19.982	0.5488	9.3894	0.3553 _n	0.9315	1.2608 _n	
20.979	0.5515	9.3926	0.3654 _n	0.9454	1.2570 _n	
21.976	0.5543	9.3947	0.3726 _n	0.9587	1.2531 _n	
22.973	0.5570	9.3967	0.3765 _n	0.9715	1.2490 _n	
23.971	0.5597	9.3988	0.3772 _n	0.9838	1.2448 _n	
24.968	0.5625	9.4020	0.3756 _n	0.9957	1.2404 _n	
25.965	0.5652	9.4066	0.3727 _n	1.0071	1.2358 _n	
26.963	0.5679	9.4126	0.3703 _n	1.0181	1.2311 _n	
27.960	0.5707	9.4196	0.3697 _n	1.0287	1.2262 _n	
28.957	0.5734	9.4274	0.3720 _n	1.0390	1.2211 _n	
29.954	0.5761	9.4352	0.3776 _n	1.0489	1.2158 _n	
30.952	0.5789	9.4425	0.3863 _n	1.0585	1.2104 _n	
31.949	0.5816	9.4488	0.3970 _n	1.0677	1.2047 _n	
Aug. 1.946	0.5843	9.4538	0.4083 _n	1.0767	1.1989 _n	
2.943	0.5870	9.4576	0.4189 _n	1.0853	1.1928 _n	
3.941	0.5898	9.4603	0.4275 _n	1.0937	1.1866 _n	
4.938	0.5925	9.4624	0.4334 _n	1.1018	1.1801 _n	
5.935	0.5952	9.4644	0.4363 _n	1.1096	1.1734 _n	
6.932	0.5980	9.4668	0.4365 _n	1.1172	1.1664 _n	
7.930	0.6007	9.4702	0.4350 _n	1.1245	1.1593 _n	
8.927	0.6034	9.4746	0.4327 _n	1.1316	1.1518 _n	
9.924	0.6062	9.4800	0.4312 _n	1.1384	1.1442 _n	

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Aug. 9.924	0.6062	9.4800	0.4312 _n	I.1384	I.1442 _n	
10.922	0.6089	9.4862	0.4315 _n	I.1451	I.1362 _n	
11.919	0.6116	9.4926	0.4346 _n	I.1515	I.1280 _n	
12.916	0.6143	9.4987	0.4404 _n	I.1577	I.1195 _n	
13.913	0.6171	9.5040	0.4486 _n	I.1637	I.1107 _n	
14.911	0.6198	9.5083	0.4583 _n	I.1695	I.1016 _n	
15.908	0.6225	9.5113	0.4681 _n	I.1751	I.0922 _n	
16.905	0.6253	9.5131	0.4770 _n	I.1805	I.0825 _n	
17.902	0.6280	9.5141	0.4837 _n	I.1857	I.0724 _n	
18.900	0.6307	9.5146	0.4880 _n	I.1908	I.0619 _n	
19.897	0.6335	9.5152	0.4896 _n	I.1957	I.0510 _n	
20.894	0.6362	9.5163	0.4890 _n	I.2004	I.0397 _n	
21.892	0.6389	9.5184	0.4871 _n	I.2049	I.0280 _n	
22.889	0.6417	9.5216	0.4849 _n	I.2092	I.0158 _n	
23.886	0.6444	9.5259	0.4836 _n	I.2135	I.0032 _n	
24.883	0.6471	9.5308	0.4842 _n	I.2175	0.9900 _n	
25.881	0.6498	9.5360	0.4872 _n	I.2214	0.9763 _n	
26.878	0.6526	9.5411	0.4926 _n	I.2251	0.9621 _n	
27.875	0.6553	9.5455	0.5000 _n	I.2287	0.9472 _n	
28.872	0.6580	9.5490	0.5083 _n	I.2321	0.9316 _n	
29.870	0.6608	9.5516	0.5165 _n	I.2354	0.9153 _n	
30.867	0.6635	9.5532	0.5234 _n	I.2385	0.8983 _n	
31.864	0.6662	9.5542	0.5283 _n	I.2415	0.8804 _n	
Sept. 1.861	0.6690	9.5550	0.5308 _n	I.2444	0.8616 _n	
2.859	0.6717	9.5560	0.5310 _n	I.2471	0.8418 _n	
3.856	0.6744	9.5576	0.5293 _n	I.2497	0.8210 _n	-6.622
4.853	0.6771	9.5601	0.5267 _n	I.2521	0.7989 _n	6.294
5.851	0.6799	9.5635	0.5240 _n	I.2544	0.7755 _n	5.964
6.848	0.6826	9.5676	0.5225 _n	I.2566	0.7507 _n	5.632
7.845	0.6853	9.5721	0.5229 _n	I.2586	0.7242 _n	5.299
8.842	0.6881	9.5767	0.5256 _n	I.2605	0.6958 _n	-4.964
9.840	0.6908	9.5808	0.5304 _n	I.2623	0.6653 _n	4.627
10.837	0.6935	9.5841	0.5367 _n	I.2639	0.6323 _n	4.288
11.834	0.6963	9.5864	0.5436 _n	I.2654	0.5965 _n	3.949
12.831	0.6990	9.5877	0.5501 _n	I.2668	0.5573 _n	3.608
13.829	0.7017	9.5882	0.5551 _n	I.2681	0.5140 _n	-3.266
14.826	0.7045	9.5882	0.5581 _n	I.2692	0.4658 _n	2.923
15.823	0.7072	9.5880	0.5589 _n	I.2702	0.4113 _n	2.578

$$E = -0.04$$

Konstanten für die Sterntage 1909,
gültig für die Sternzeitepochen 7^h 23^m.9 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Sept. 15.823	0.7072	9.5880	0.5589 _n	1.2702	0.4113 _n	-2.578
16.821	0.7099	9.5882	0.5576 _n	1.2711	0.3489 _n	2.233
17.818	0.7126	9.5892	0.5547 _n	1.2718	0.2757 _n	1.887
18.815	0.7154	9.5910	0.5511 _n	1.2724	0.1875 _n	1.540
19.812	0.7181	9.5939	0.5479 _n	1.2729	0.0764 _n	1.192
20.810	0.7208	9.5974	0.5460 _n	1.2733	9.9266 _n	-0.844
21.807	0.7236	9.6014	0.5460 _n	1.2735	9.6955 _n	0.496
22.804	0.7263	9.6055	0.5481 _n	1.2737	9.1680 _n	-0.147
23.801	0.7290	9.6092	0.5521 _n	1.2737	9.3048	+0.202
24.799	0.7318	9.6122	0.5574 _n	1.2735	9.7411	0.551
25.796	0.7345	9.6144	0.5630 _n	1.2733	9.9543	+0.900
26.793	0.7372	9.6158	0.5679 _n	1.2729	0.0967	1.249
27.790	0.7400	9.6166	0.5712 _n	1.2723	0.2036	1.598
28.788	0.7427	9.6171	0.5725 _n	1.2717	0.2893	1.947
29.785	0.7454	9.6177	0.5716 _n	1.2709	0.3608	2.295
30.782	0.7481	9.6187	0.5687 _n	1.2700	0.4221	+2.643
Okt. 1.780	0.7509	9.6204	0.5646 _n	1.2690	0.4757	2.990
2.777	0.7536	9.6229	0.5601 _n	1.2678	0.5233	3.337
3.774	0.7563	9.6262	0.5561 _n	1.2665	0.5662	3.683
4.771	0.7591	9.6300	0.5537 _n	1.2651	0.6051	4.028
5.769	0.7618	9.6341	0.5538 _n	1.2635	0.6407	+4.372
6.766	0.7645	9.6379	0.5550 _n	1.2618	0.6734	4.715
7.763	0.7673	9.6411	0.5584 _n	1.2600	0.7038	5.056
8.760	0.7700	9.6436	0.5628 _n	1.2580	0.7321	5.397
9.758	0.7727	9.6451	0.5672 _n	1.2559	0.7586	5.736
10.755	0.7754	9.6460	0.5707 _n	1.2537	0.7834	+6.073
11.752	0.7782	9.6462	0.5725 _n	1.2513	0.8068	6.409
12.750	0.7809	9.6462	0.5721 _n	1.2487	0.8288	
13.747	0.7836	9.6464	0.5697 _n	1.2460	0.8498	
14.744	0.7864	9.6471	0.5654 _n	1.2432	0.8696	
15.741	0.7891	9.6487	0.5601 _n	1.2402	0.8884	
16.739	0.7918	9.6510	0.5547 _n	1.2371	0.9064	
17.736	0.7946	9.6542	0.5502 _n	1.2338	0.9235	
18.733	0.7973	9.6579	0.5474 _n	1.2303	0.9398	
19.730	0.8000	9.6618	0.5467 _n	1.2267	0.9555	
20.728	0.8028	9.6655	0.5482 _n	1.2230	0.9704	
21.725	0.8055	9.6688	0.5513 _n	1.2190	0.9848	
22.722	0.8082	9.6714	0.5551 _n	1.2149	0.9986	

$E = -0.04$

Konstanten für die Sterntage 1909,
gültig für die Sternzeitepochen 7^h 23^m.9 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Okt. 22.722	0.8082	9.6714	0.5551 _n	1.2149	0.9986
23.720	0.8109	9.6733	0.5586 _n	1.2106	1.0118
24.717	0.8137	9.6746	0.5610 _n	1.2062	1.0246
25.714	0.8164	9.6755	0.5615 _n	1.2015	1.0368
26.711	0.8191	9.6764	0.5598 _n	1.1967	1.0486
27.709	0.8219	9.6776	0.5560 _n	1.1917	1.0600
28.706	0.8246	9.6793	0.5505 _n	1.1864	1.0709
29.703	0.8273	9.6817	0.5443 _n	1.1810	1.0815
30.700	0.8301	9.6849	0.5383 _n	1.1754	1.0916
31.698	0.8328	9.6887	0.5335 _n	1.1696	1.1015
Nov. 1.695	0.8355	9.6927	0.5307 _n	1.1636	1.1109
2.692	0.8382	9.6967	0.5302 _n	1.1573	1.1201
3.689	0.8410	9.7004	0.5319 _n	1.1508	1.1289
4.687	0.8437	9.7034	0.5350 _n	1.1441	1.1375
5.684	0.8464	9.7057	0.5386 _n	1.1371	1.1457
6.681	0.8492	9.7072	0.5417 _n	1.1299	1.1537
7.679	0.8519	9.7083	0.5433 _n	1.1224	1.1614
8.676	0.8546	9.7090	0.5429 _n	1.1146	1.1688
9.673	0.8574	9.7097	0.5402 _n	1.1066	1.1760
10.670	0.8601	9.7108	0.5354 _n	1.0983	1.1829
11.668	0.8628	9.7124	0.5293 _n	1.0896	1.1896
12.665	0.8656	9.7148	0.5226 _n	1.0807	1.1961
13.662	0.8683	9.7180	0.5165 _n	1.0714	1.2024
14.659	0.8710	9.7217	0.5120 _n	1.0618	1.2084
15.657	0.8737	9.7256	0.5099 _n	1.0518	1.2142
16.654	0.8765	9.7296	0.5101 _n	1.0414	1.2198
17.651	0.8792	9.7332	0.5125 _n	1.0307	1.2252
18.649	0.8819	9.7364	0.5162 _n	1.0195	1.2305
19.646	0.8847	9.7389	0.5201 _n	1.0080	1.2355
20.643	0.8874	9.7408	0.5232 _n	0.9959	1.2403
21.640	0.8901	9.7424	0.5245 _n	0.9833	1.2450
22.638	0.8929	9.7438	0.5237 _n	0.9703	1.2494
23.635	0.8956	9.7453	0.5205 _n	0.9567	1.2537
24.632	0.8983	9.7473	0.5154 _n	0.9425	1.2578
25.630	0.9010	9.7498	0.5091 _n	0.9276	1.2618
26.627	0.9038	9.7529	0.5028 _n	0.9121	1.2656
27.624	0.9065	9.7565	0.4974 _n	0.8959	1.2692
28.621	0.9092	9.7605	0.4940 _n	0.8790	1.2726

$$E = -0.04$$

Konstanten für die Sterntage 1909,
gültig für die Sternzeitepochen 7^h 23^m.9 Berlin.

Datum in Mittl. Zeit	<i>t</i>	log. <i>A</i>	log. <i>B</i>	log. <i>C</i>	log. <i>D</i>	<i>C</i>
Nov. 28.621	0.9092	9.7605	0.4940 _n	0.8790	1.2726	
29.618	0.9120	9.7646	0.4931 _n	0.8611	1.2759	
30.616	0.9147	9.7685	0.4947 _n	0.8424	1.2791	
Dez. 1.613	0.9174	9.7719	0.4985 _n	0.8227	1.2820	
2.610	0.9202	9.7747	0.5031 _n	0.8019	1.2849	+6.337
3.608	0.9229	9.7769	0.5078 _n	0.7798	1.2876	+6.023
4.605	0.9256	9.7784	0.5113 _n	0.7565	1.2901	5.708
5.602	0.9284	9.7797	0.5129 _n	0.7317	1.2925	5.391
6.599	0.9311	9.7807	0.5121 _n	0.7052	1.2947	5.072
7.597	0.9338	9.7820	0.5091 _n	0.6768	1.2968	4.752
8.594	0.9365	9.7837	0.5044 _n	0.6464	1.2987	+4.430
9.591	0.9393	9.7860	0.4988 _n	0.6134	1.3005	4.106
10.588	0.9420	9.7889	0.4935 _n	0.5776	1.3021	3.781
11.586	0.9447	9.7923	0.4896 _n	0.5385	1.3036	3.455
12.583	0.9475	9.7960	0.4880 _n	0.4952	1.3050	3.128
13.580	0.9502	9.7999	0.4890 _n	0.4471	1.3062	+2.800
14.578	0.9529	9.8035	0.4925 _n	0.3927	1.3073	2.470
15.575	0.9557	9.8067	0.4977 _n	0.3305	1.3083	2.140
16.572	0.9584	9.8094	0.5037 _n	0.2575	1.3091	1.809
17.569	0.9611	9.8116	0.5093 _n	0.1696	1.3098	1.478
18.567	0.9638	9.8134	0.5135 _n	0.0591	1.3103	+1.146
19.564	0.9666	9.8149	0.5155 _n	9.9103	1.3107	0.814
20.561	0.9693	9.8164	0.5153 _n	9.6819	1.3110	0.481
21.558	0.9720	9.8182	0.5129 _n	9.1699	1.3111	+0.148
22.556	0.9748	9.8204	0.5091 _n	9.2673 _n	1.3111	-0.185
23.553	0.9775	9.8230	0.5047 _n	9.7143 _n	1.3109	-0.518
24.550	0.9802	9.8262	0.5011 _n	9.9298 _n	1.3107	0.851
25.547	0.9830	9.8297	0.4992 _n	0.0732 _n	1.3103	1.183
26.545	0.9857	9.8334	0.4996 _n	0.1806 _n	1.3097	1.515
27.542	0.9884	9.8370	0.5027 _n	0.2666 _n	1.3090	1.847
28.539	0.9911	9.8403	0.5080 _n	0.3382 _n	1.3082	-2.179
29.537	0.9939	9.8430	0.5154 _n	0.3995 _n	1.3072	2.509
30.534	0.9966	9.8452	0.5217 _n	0.4532 _n	1.3061	2.839
31.531	0.9993	9.8468	0.5279 _n	0.5008 _n	1.3048	3.168
32.528	1.0021	9.8480	0.5325 _n	0.5435 _n	1.3035	3.496
33.526	1.0048	9.8490	0.5350 _n	0.5824 _n	1.3019	-3.823
34.523	1.0075	9.8501	0.5353 _n	0.6179 _n	1.3003	4.148
35.520	1.0103	9.8514	0.5337 _n	0.6506 _n	1.2984	4.473

$E = -0.04$

Konstanten für die mittleren Tage 1909,
zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>
1908 Dez. 28	-61.91	1.43002	180° 38.9	April 23	-48.24	1.32345	185° 35.5
1909 Jan. 1	61.24	1.42524	180 46.9	27	47.78	1.31925	185 32.6
5	60.57	1.42046	180 56.4	Mai 1	47.30	1.31483	185 29.5
9	59.91	1.41572	181 7.3	5	46.79	1.31018	185 26.2
13	59.27	1.41106	181 19.6	9	46.27	1.30527	185 22.9
17	-58.65	1.40649	181 33.2	13	-45.73	1.30010	185 19.8
21	58.04	1.40203	181 48.0	17	45.17	1.29468	185 17.4
25	57.45	1.39770	182 3.7	21	44.59	1.28903	185 15.7
29	56.88	1.39350	182 20.2	25	43.99	1.28314	185 15.0
Fehr. 2	56.34	1.38944	182 37.2	29	43.37	1.27703	185 15.4
6	-55.83	1.38554	182 54.5	Juni 2	-42.74	1.27071	185 17.3
10	55.33	1.38180	183 11.9	6	42.10	1.26418	185 20.8
14	54.86	1.37820	183 29.1	10	41.45	1.25747	185 26.2
18	54.41	1.37475	183 45.9	14	40.79	1.25059	185 33.6
22	53.98	1.37144	184 2.1	18	40.13	1.24357	185 43.0
26	-53.57	1.36826	184 17.6	22	-39.46	1.23643	185 54.7
März 2	53.18	1.36519	184 32.1	26	38.79	1.22920	186 8.8
6	52.80	1.36219	184 45.2	30	38.13	1.22192	186 25.2
10	52.43	1.35926	184 57.1	Juli 4	37.47	1.21463	186 44.0
14	52.07	1.35637	185 7.6	8	36.83	1.20738	187 5.4
18	-51.71	1.35349	185 16.7	12	-36.19	1.20019	187 29.2
22	51.35	1.35059	185 24.2	16	35.56	1.19309	187 55.1
26	51.00	1.34763	185 30.2	20	34.95	1.18609	188 23.0
30	50.64	1.34458	185 34.7	24	34.36	1.17921	188 52.8
April 3	50.27	1.34143	185 37.7	28	33.78	1.17249	189 24.3
7	-49.89	1.33818	185 39.3	Aug. 1	-33.23	1.16598	189 57.4
11	49.50	1.33479	185 39.8	5	32.69	1.15969	190 31.6
15	49.10	1.33121	185 39.2	9	32.17	1.15361	191 6.7
19	48.68	1.32743	185 37.8	13	31.68	1.14774	191 42.1
23	48.24	1.32345	185 35.5	17	31.20	1.14208	192 17.5

Konstanten für die mittleren Tage 1909,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>
Aug. 17	-31.20	I.I4208	192° 17.5	Okt. 24	-24.44	I.04898	198° 34.9
21	30.74	I.I3664	192 52.7	28	23.98	I.04099	198 43.2
25	30.30	I.I3142	193 27.3	Nov. 1	23.49	I.03244	198 51.8
29	29.88	I.I2636	194 0.7	5	22.98	I.02333	199 1.2
Sept. 2	29.48	I.I2143	194 32.8	9	22.45	I.01362	199 11.8
6	-29.08	I.I1661	195 3.4	13	-21.90	I.00329	199 24.1
10	28.70	I.I1186	195 32.1	17	21.32	0.99229	199 38.8
14	28.33	I.I0713	195 58.7	21	20.72	0.98063	199 56.6
18	27.96	I.I0236	196 23.2	25	20.09	0.96833	200 18.2
22	27.60	I.09749	196 45.5	29	19.45	0.95541	200 44.9
26	-27.23	I.09247	197 5.7	Dez. 3	-18.79	0.94195	201 17.2
30	26.86	I.08723	197 23.8	7	18.11	0.92797	201 55.8
Okt. 4	26.49	I.08175	197 39.8	11	17.43	0.91353	202 41.4
8	26.11	I.07599	197 53.6	15	16.73	0.89871	203 35.2
12	25.72	I.06989	198 5.6	19	16.03	0.88362	204 37.9
16	-25.31	I.06339	198 16.3	23	-15.33	0.86835	205 49.9
20	24.89	I.05643	198 26.1	27	14.62	0.85304	207 11.8
24	24.44	I.04898	198 34.9	31	13.92	0.83790	208 44.1

$$\text{Red. in } \alpha = f + g \sin (G + \alpha) \operatorname{tg} \delta$$

$$\text{Red. in } \delta = g \cos (G + \alpha)$$

Im Jahre 1909 werden zwei Sonnen- und zwei Mondfinsternisse stattfinden, von denen in unseren Gegenden jedoch nur die erste Mondfinsternis zu sehen sein wird.

I. Totale Mondfinsternis 1909 Juni 3,
teilweise sichtbar in Berlin.

Elemente der Finsternis
nach mittlerer Berliner Zeit.

☿ in AR	Juni 3	14 ^h 12 ^m 42.8
☾ AR.		16 45 17.68
☾ Dekl.		-21° 58' 40.6
☉ »		+22 20 27.4
☾ stündliche Bewegung in AR. .		34 15.3
☉ » » » » .		2 33.9
☾ » » » Dekl. .		-7 5.6
☉ » » » » .		+ 18.3
☾ Äquatorial-Horizontal-Parallaxe		56 35.7
☉ » » » »		8.7
☾ Halbmesser		15 25.4
☉ »		15 45.8

Anfang der Finsternis überhaupt .	Juni 3	12 ^h 36.9	mittl. Berl. Zi.
Anfang der totalen Verfinsterung		13 51.6	» » »
Mitte der Finsternis		14 22.5	» » »
Ende der totalen Verfinsterung		14 53.4	» » »
Ende der Finsternis überhaupt		16 8.1	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

2° 49' östl. Länge von Greenwich	21° 47' südl. Br.
344 47 » » » »	21 56 » »
337 20 » » » »	22 0 » »
329 54 » » » »	22 4 » »
311 52 » » » »	22 12 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 125°
» » Austritts » » » = 261

Größe der Verfinsterung in Teilen des Monddurchmessers = 1.164

Die Finsternis wird demnach im südwestlichen Asien, im Indischen Ozean, in Europa, Afrika, auf dem Atlantischen Ozean, in Südamerika und in der südöstlichen Hälfte von Nordamerika zu sehen sein.

In Berlin geht der Mond 19^m vor dem Ende der Finsternis unter.

II. Totale Sonnenfinsternis 1909 Juni 17,
unsichtbar in Berlin.

Elemente der Finsternis
nach wahrer Berliner Zeit τ .

	9 ^h 28 ^m 55. ^s 7	10 ^h 40 ^m 55. ^s 1	11 ^h 52 ^m 54. ^s 4	13 ^h 4 ^m 53. ^s 8	14 ^h 16 ^m 53. ^s 1
τ	142°.2321	160°.2294	178°.2267	196°.2240	214°.2213
$\lambda(\odot)$	84° 27' 39.8	85° 8' 12.8	85° 48' 43.3	86° 29' 11.4	87° 9' 37.1
$\beta(\odot)$	+ 0 42 59.5	+ 0 46 41.7	+ 0 50 23.2	+ 0 54 4.1	+ 0 57 44.3
$\pi(\odot)$	0 57 48.6	0 57 46.8	0 57 45.0	0 57 43.2	0 57 41.3
$\Delta\alpha'(\odot)$	- 0 0 14.94	- 0 0 8.80	- 0 0 2.66	+ 0 0 3.49	+ 0 0 9.63
$\delta'(\odot)$	+23 23 18.0	+23 23 22.5	+23 23 27.0	+23 23 31.3	+23 23 35.7
N'	82 36 17.3	82 37 47.2	82 39 17.7	82 40 48.5	82 42 19.4
γ	+0.895647	+0.895632	+0.895617	+0.895601	+0.895586
u'_n	+0.546046	+0.546245	+0.546412	+0.546546	+0.546649
u'_i	+0.000360	+0.000162	-0.000004	-0.000138	-0.000240
$\log \sin f_n$	7.662879	7.662878	7.662877	7.662876	7.662875
$\log \sin f_i$	7.660709 _n	7.660708 _n	7.660707 _n	7.660706 _n	7.660704 _n
$\log n$	9.737856	9.737870	9.737872	9.737862	9.737839
μ	182°.8824	182°.8844	182°.8866	182°.8890	182°.8915
k	83° 12' 55.5	83° 14' 18.1	83° 15' 41.3	83° 17' 4.8	83° 18' 28.3
g	24 28 0.8	24 27 39.4	24 27 18.0	24 26 56.5	24 26 34.9
K	87 3 2.1	87 3 37.8	87 4 13.7	87 4 49.7	87 5 25.8
G	71 53 38.4	71 57 9.9	72 0 42.6	72 4 16.0	72 7 49.5

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis überhaupt . . .	9 ^h 53.9	122° 16'	+25° 18'
Beginn der totalen Finsternis . . .	11 23.8	80 32	+49 31
Beginn der zentralen Finsternis . . .	11 23.8	80 51	+49 41
Zentrale Finsternis im wahren Mittag	12 24.8	187 21	+88 22
Ende der zentralen Finsternis . . .	13 0.4	318 42	+59 57
Ende der totalen Finsternis . . .	13 0.4	319 0	+59 45
Ende der Finsternis überhaupt . . .	14 30.3	267 6	+38 14

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Südl. Grenze		Östl. Grenze	
O. L. Gr.	Breite	O. L. Gr.	Breite	O. L. Gr.	Breite
354° 43'	+66° 4'	122° 29'	+12° 13'	265° 12'	+25° 35'
13 20	65 4	128 36	15 3	268 43	25 18
55 6	55 5	144 22	23 38	273 22	26 50
67 40	48 49	157 21	31 30	278 47	29 51
77 2	42 46	168 45	37 46	284 49	33 55
84 48	36 51	179 31	42 5	291 28	38 40
91 39	31 7	190 14	44 34	298 54	43 48
97 56	25 42	201 14	45 22	307 29	49 6
103 47	20 46	212 43	44 31	317 50	54 21
109 17	16 36	224 54	41 56	331 6	59 19
114 24	13 31	238 8	37 28	349 45	63 39
118 56	11 56	253 4	31 5	42 54	+65 4
122 29	+12 13	265 12	+25 35		

Die nördliche Grenzkurve ist imaginär.

Kurve der zentralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der totalen Verfinsterung
11 ^h 23. ^m 8	80° 51'	+49° 41'	
11 31.5	104 41	65 38	19'
12 8.3	119 29	80 51	27
12 20.2	140 31	86 36	27
12 23.4	163 42	87 57	26
12 24.8	187 21	88 22	26
12 26.3	210 59	88 26	26
12 27.6	234 39	88 13	25
12 29.7	258 8	87 28	25
12 35.1	280 47	84 47	23
12 51.5	300 41	73 58	14
13 0.4	318 42	+59 57	

Die Finsternis ist demnach im Norden Europas, in der nördlichen Hälfte Asiens, in Nordamerika und in den Nordpolargegenden sichtbar.

III. Totale Mondfinsternis 1909 November 26,
unsichtbar in Berlin.

Elemente der Finsternis
nach mittlerer Berliner Zeit.

♁ in AR.	Nov. 26	21 ^h 39 ^m 52.2
☾ AR.		4 10 3.31
☾ Dekl.		+20° 45' 55.9
☉ »		-21 2 56.9
☾ stündliche Bewegung in AR. .		37 48.9
☉ » » » » .		2 39.9
☾ » » » Dekl. .		+10 3.1
☉ » » » » .		- 27.9
☾ Äquatorial-Horizontal-Parallaxe		60 11.5
☉ » » » »		8.9
☾ Halbmesser		16 24.1
☉ »		16 12.8

Anfang der Finsternis überhaupt .	Nov. 26	20 ^h 4.6	mittl. Berl. Zt.
Anfang der totalen Verfinsternung	21	7.2	» » »
Mitte der Finsternis	21	48.2	» » »
Ende der totalen Verfinsternung	22	29.2	» » »
Ende der Finsternis überhaupt	23	31.9	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

248° 12' östl. Länge von Greenwich	20° 30' nördl. Br.
233 8 » » » »	20 41 » »
223 18 » » » »	20 47 » »
213 28 » » » »	20 54 » »
198 25 » » » »	21 5 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 58°
» » Austritts » » » = 269

Größe der Verfinsternung in Teilen des Monddurchmessers = 1.371

Die Finsternis wird demnach im nordwestlichen Europa, an der nordwestlichen Küste Afrikas, auf dem Atlantischen Ozean, in Amerika, auf dem Stillen Ozean und in der östlichen Hälfte Asiens und Australiens zu sehen sein.

In Berlin geht der Mond 29^m vor Beginn der Finsternis unter.

IV. Partielle Sonnenfinsternis 1909 Dezember 12,
unsichtbar in Berlin.

Elemente der Finsternis
nach wahrer Berliner Zeit τ .

	6 ^h 45 ^m 37.9	7 ^h 57 ^m 36.5	9 ^h 9 ^m 35.1	10 ^h 21 ^m 33.7	11 ^h 33 ^m 32.3
τ	101°.4081	119°.4022	137°.3964	155°.3905	173°.3846
$\lambda \odot$	259° 1' 18.5	259° 39' 6.5	260° 16' 56.5	260° 54' 48.6	261° 32' 42.8
$\beta \odot$	- 1 3 23.3	- 1 6 48.1	- 1 10 12.6	- 1 13 36.8	- 1 17 0.6
$\pi \odot$	0 55 45.0	0 55 46.5	0 55 47.9	0 55 49.4	0 55 50.9
$\Delta \alpha' \odot$	- 0 0 11.97	- 0 0 5.95	+ 0 0 0.07	+ 0 0 6.09	+ 0 0 12.11
$\delta' \odot$	-23 4 45.1	-23 4 57.8	-23 5 10.4	-23 5 22.9	-23 5 35.4
N'	99 49 20.4	99 47 38.2	99 45 55.9	99 44 13.6	99 42 31.5
γ	-1.246234	-1.246262	-1.246291	-1.246319	-1.246347
u'_n	+0.565375	+0.565284	+0.565163	+0.565011	+0.564828
u'_i	-0.018873	-0.018783	-0.018662	-0.018510	-0.018329
$\log \sin f_n$	7.676752	7.676754	7.676756	7.676758	7.676759
$\log \sin f_i$	7.674581 _n	7.674583 _n	7.674585 _n	7.674587 _n	7.674589 _n
$\log n$	9.718941	9.718973	9.718989	9.718990	9.718977
μ	131°.1611	131°.1662	131°.1711	131°.1757	131°.1800
k	99° 1' 45.6	99° 0' 10.9	98° 58' 36.2	98° 57' 1.5	98° 55' 26.9
g	24 58 36.6	24 58 10.3	24 57 43.9	24 57 17.6	24 56 51.5
K	86 7 2.7	86 7 41.7	86 8 20.8	86 9 0.0	86 9 39.1
G	246 10 15.5	246 14 11.2	246 18 7.2	246 22 3.3	246 25 59.1

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis überhaupt . . .	6 ^h 50.2	158° 11'	-38° 35'
Ende der Finsternis überhaupt . . .	10 26.6	341 24	-55 24

Größe der Verfinsternung in Teilen des Sonnendurchmessers = 0.546

Die Finsternis ist nur an der Südostspitze Australiens, in der südlichen Hälfte Neu-Seelands und in den südlichen Polarmeeren zu sehen.

Verzeichnis von Fixsternen, welche im Jahre 1909
vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. A.R. 1909.0	Mittl. Dekl. 1909.0
1	33 Piscium	5.0	0 ^h 0 ^m 40.68	— 6° 12' 59.9
2	f Piscium	5.2	1 13 6.25	+ 3 8 7.6
3	μ Piscium	5.0	1 25 24.95	+ 5 40 30.9
4	v Piscium	4.5	1 36 41.65	+ 5 1 38.4
5	ξ ¹ Ceti	4.3	2 8 10.50	+ 8 25 12.4
6	ξ Arietis	5.3	2 19 56.23	+10 11 55.7
7	38 Arietis	5.0	2 39 59.94	+12 3 47.9
8	13 Tauri	5.5	3 37 3.92	+19 24 33.4
9	ω ² Tauri	5.5	4 11 55.62	+20 21 19.0
10	x ¹ Tauri	4.6	4 19 56.59	+22 5 10.6
11	υ ¹ Tauri	4.6	4 20 51.62	+22 36 28.0
12	ε Tauri	3.5	4 23 18.07	+18 58 45.2
13	τ Tauri	4.2	4 36 46.90	+22 46 58.7
14	ι Tauri	4.8	4 57 39.31	+21 27 38.2
15	132 Tauri	5.4	5 43 25.86	+24 32 15.6
16	139 Tauri	5.4	5 52 20.86	+25 56 35.8
17	1 Geminorum . . .	5.0	5 58 35.33	+23 16 7.9
18	e Geminorum . . .	3.1	6 38 20.06	+25 13 18.8
19	A Geminorum . . .	5.5	7 17 55.71	+25 13 33.8
20	x Geminorum . . .	3.4	7 38 57.34	+24 37 0.6
21	γ Cancri	4.4	8 38 1.34	+21 47 46.7
22	ξ Cancri	5.0	9 4 7.80	+22 24 50.5
23	η Leonis	3.4	10 2 22.39	+17 12 24.2
24	ι Leonis	4.0	11 19 10.88	+11 1 50.0
25	ξ Virginis	4.6	11 40 35.66	+ 8 45 50.4
26	v Virginis	4.4	11 41 10.96	+ 7 2 21.8
27	π Virginis	4.4	11 56 12.59	+ 7 7 18.3
28	c Virginis	5.0	12 15 43.67	+ 3 49 9.5
29	β Virginis	5.0	13 27 13.94	— 5 47 10.1
30	x Virginis	4.2	14 8 2.37	— 9 51 1.8

Verzeichnis von Fixsternen, welche im Jahre 1909
vom Monde bedeckt werden.

Nr.	N a m e	Gr.	Mittl. AR. 1909.0	Mittl. Dekl. 1909.0
31	α Librae	5.0	15 36 ^b 42.05	—19 23 2.9
32	θ Librae	4.7	15 48 38.51	—16 27 46.1
33	β^1 Scorpii	2.6	16 0 8.60	—19 33 25.3
34	ω^1 Scorpii	4.3	16 1 28.88	—20 25 24.0
35	ω^2 Scorpii	5.0	16 2 4.00	—20 37 24.8
36	ν Scorpii	4.0	16 6 42.22	—19 13 29.6
37	ψ Ophiuchi	5.0	16 18 46.60	—19 49 29.9
38	ω Ophiuchi	5.0	16 26 44.43	—21 16 20.0
39	θ Ophiuchi	3.2	17 16 25.16	—24 54 33.7
40	b Ophiuchi	5.0	17 20 48.66	—24 5 32.5
41	γ Sagittarii	5.0	17 54 14.18	—23 48 30.2
42	λ Sagittarii	2.8	18 22 21.27	—25 28 21.5
43	φ Sagittarii	3.6	18 39 58.27	—27 5 5.8
44	σ Sagittarii	2.1	18 49 37.39	—26 24 37.6
45	h^1 Sagittarii	5.5	19 30 30.23	—24 55 7.6
46	h^2 Sagittarii	4.6	19 31 10.25	—25 5 6.2
47	η Capricorni	5.4	20 59 13.68	—20 12 55.5
48	33 Capricorni	5.5	21 19 0.05	—21 14 20.3
49	ϵ Capricorni	4.7	21 31 59.21	—19 52 27.1
50	α Capricorni	5.2	21 37 34.70	—19 16 53.1
51	τ^2 Aquarii	4.0	22 44 46.50	—14 4 23.2
52	ψ^1 Aquarii	4.7	23 11 7.51	— 9 35 0.7
53	ψ^2 Aquarii	4.7	23 13 10.50	— 9 40 45.6
54	ψ^3 Aquarii	5.0	23 14 13.73	—10 6 30.3
55	30 Piscium	4.8	23 57 17.60	— 6 31 11.3

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.			q	p'	q'	Nr.	Zeit der Konj. in AR.			q	p'	q'
Jan.													
	^d	^h	^m					^d	^h	^m			
7	1	4	8.2	-0.3944	5435	+2145	15	0	20	11.2	-1.1220	5619	+0669
9	2	22	7.4	-1.2450	5573	+1528	17	1	2	49.0	+0.6337	5624	+0519
12	3	3	10.8	+0.9526	5590	+1433	18	1	20	12.2	-0.9200	5620	+0117
14	3	18	17.6	+0.2719	5632	+1127	19	2	13	39.4	-1.0768	5590	-0283
15	4	14	9.4	-1.1953	5670	+0687	20	2	23	2.0	-0.7793	5564	-0492
17	4	20	41.8	+0.5594	5676	+0535	21	4	2	1.7	+0.2151	5451	-1046
18	5	13	50.9	-0.9652	5666	+0131	23	5	19	0.2	-0.4279	5240	-1700
19	6	7	4.6	-1.0982	5630	-0271	24	7	11	15.7	-1.2927	5060	-2094
20	6	16	20.8	-0.7898	5599	-0481	25	7	22	55.4	-1.2583	5024	-2164
21	7	19	6.0	+0.2402	5469	-1034	26	7	23	14.7	+0.5885	5024	-2166
23	9	11	54.5	-0.3363	5234	-1682	28	8	18	19.3	-0.0452	4988	-2240
24	11	4	9.4	-1.1360	5047	-2075	30	11	8	2.6	+1.2137	5080	-2153
25	11	15	48.8	-1.0848	5013	-2146	33	13	15	57.9	+0.9788	5445	-1581
26	11	16	8.2	+0.7578	5013	-2148	36	13	18	59.2	+0.1543	5471	-1533
27	12	0	23.7	-1.1244	4996	-2188	37	14	0	28.7	-0.0270	5516	-1442
28	12	11	10.7	+0.1501	4983	-2227	38	14	4	3.1	+0.9975	5545	-1379
32	17	1	47.4	-1.2130	5485	-1692	40	15	3	21.0	+1.2510	5744	-0906
33	17	7	0.9	+1.1807	5528	-1611	♂	15	9	37.0	-0.0202	5510	-0742
36	17	9	57.4	+0.3634	5555	-1564	41	15	17	1.9	-0.0661	5848	-0577
37	17	15	18.0	+0.1791	5604	-1473	42	16	4	12.5	+1.1527	5919	-0285
38	17	18	46.5	+1.1867	5635	-1410	45	17	6	28.4	+0.7878	6026	+0452
41	19	6	46.8	+0.0891	5933	-0600	46	17	6	43.6	+0.9660	6024	+0459
51	23	23	15.1	+0.7883	5748	+2166	2	23	1	45.4	-0.3219	5551	+2519
52	24	10	24.9	-1.1620	5679	+2297	4	23	12	20.0	+0.4290	5536	+2463
53	24	11	17.7	-0.8648	5673	+2306	5	24	2	30.2	+0.4398	5526	+2346
54	24	11	44.8	-0.3351	5670	+2309	6	24	7	48.2	-0.1262	5528	+2292
55	25	6	36.3	+0.5965	5562	+2444	7	24	16	49.9	+0.0051	5530	+2185
1	25	8	6.9	+0.6640	5556	+2450	9	26	9	47.7	-0.8648	5580	+1518
2	26	17	10.4	-0.5445	5446	+2457	12	26	14	48.1	+1.3098	5586	+1419
4	27	4	8.9	+0.2051	5431	+2405	14	27	5	51.2	+0.6114	5604	+1105
5	27	18	50.3	+0.2009	5430	+2297	15	28	1	48.3	-0.8952	5616	+0659
6	28	0	19.4	-0.3791	5432	+2245	17	28	8	24.4	+0.8472	5614	+0506
7	28	9	39.4	-0.2512	5442	+2146							
9	30	3	41.9	-1.1290	5538	+1510							
12	30	8	47.8	+1.0690	5550	+1415							
14	31	0	4.1	+0.3732	5588	+1108	18	1	1	47.0	-0.7257	5596	+0102
							19	1	19	17.5	-0.9088	5558	-0298
Febr.													
März													

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
März					April				
	^d ^h ^m					^d ^h ^m			
20	2 4 43.3	-0.6270	5529	-0506	28	4 6 46.0	-0.2047	4993	-2291
21	3 7 54.7	+0.3195	5416	-1060	29	5 22 18.7	+1.2918	5028	-2294
23	5 1 10.6	-0.4136	5220	-1716	30	6 20 20.6	+0.8022	5098	-2196
25	7 5 15.0	-1.3693	5028	-2188	33	9 4 42.7	+0.4557	5399	-1584
26	7 5 34.4	+0.4782	5027	-2190	34	9 5 20.6	+1.2903	5404	-1574
28	8 0 38.7	-0.2000	4996	-2266	36	9 7 47.8	-0.3835	5418	-1534
29	9 16 16.6	+1.3963	5016	-2264	37	9 13 24.8	-0.5718	5455	-1437
30	10 14 24.7	-0.9535	5078	-2166	38	9 17 4.6	+0.4682	5479	-1374
33	12 22 57.4	+0.6910	5394	-1569	40	10 17 8.7	+0.7323	5628	-0889
36	13 2 2.2	-0.1425	5416	-1521	41	11 7 25.3	-0.6054	5703	-0559
37	13 7 38.5	-0.3249	5456	-1428	42	11 19 9.5	+0.6593	5753	-0266
38	13 11 17.5	+0.7133	5482	-1365	45	12 22 56.6	+0.3347	5823	+0458
40	14 11 11.1	+0.9860	5655	-0887	46	12 23 12.8	+0.5189	5824	+0465
41	15 1 16.4	-0.3377	5748	-0560	47	14 10 48.1	-1.1662	5800	+1366
42	15 12 48.3	+0.9132	5811	-0270	48	14 18 52.9	+1.0495	5781	+1551
45	16 15 56.1	+0.5814	5913	+0460	49	15 0 13.2	+0.5290	5766	+1666
46	16 16 11.8	+0.7628	5911	+0467	50	15 2 31.6	+0.3216	5760	+1714
47	18 2 40.3	-0.9268	5911	+1379	51	16 6 43.0	+0.6846	5677	+2213
48	18 10 28.6	+1.2420	5895	+1566	52	16 18 0.4	-1.1860	5650	+2360
49	18 15 37.9	+0.7227	5880	+1682	53	16 18 53.4	-0.8818	5647	+2370
50	18 17 51.6	+0.5154	5875	+1732	54	16 19 20.7	-0.3489	5644	+2376
5	23 12 33.4	+0.6386	5616	+2406	55	17 14 3.7	+0.7193	5608	+2540
6	23 17 41.4	+0.0908	5620	+2351	1	17 15 32.6	+0.7971	5609	+2549
7	24 2 25.5	+0.2363	5628	+2242	9	22 3 56.8	-0.3867	5759	+1590
9	25 17 58.3	-0.5730	5676	+1552	14	22 22 49.0	+1.0838	5780	+1154
14	26 13 22.8	+0.8900	5689	+1124	15	23 17 37.9	-0.3657	5771	+0682
15	27 8 46.1	-0.5960	5680	+0664	18	24 16 24.1	-0.1958	5716	+0101
17	27 15 12.5	+1.1244	5673	+0508	19	25 9 11.3	-0.3832	5643	-0312
18	28 8 13.2	-0.4381	5635	+0096	20	25 18 17.5	-0.1139	5595	-0525
19	29 1 27.5	-0.6329	5576	-0309	21	26 20 48.3	+0.7862	5436	-1084
20	29 10 46.9	-0.3618	5538	-0519	23	28 13 42.1	-0.0329	5189	-1739
21	30 13 48.5	+0.5489	5404	-1072	24	30 6 11.7	-1.1320	5021	-2142
	April				25	30 17 54.8	-1.1730	4997	-2217
23	1 7 6.6	-0.2507	5191	-1729	26	30 18 14.2	+0.6687	4996	-2219
24	2 23 39.3	-1.3020	5043	-2135	Mai				
25	3 11 21.2	-1.3243	5015	-2208	27	1 2 32.0	-1.2807	4983	-2260
26	3 11 40.7	+0.5213	5015	-2210	28	1 13 21.6	-0.0892	4976	-2301

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in A.R.			q	p'	q'	Nr.	Zeit der Konj. in A.R.			q	p'	q'
Mai						Juni							
	^d	^h	^m					^d	^h	^m			
29	3	4	53.8	+1.3277	5028	-2313	30	0	10	21.3	+0.8466	5098	-2224
30	4	2	50.4	+0.7962	5109	-2221	33	2	17	55.8	+0.3592	5466	-1625
33	6	10	41.9	+0.3573	5435	-1610	34	2	18	32.8	+1.1850	5470	-1616
34	6	11	19.3	+1.1882	5439	-1600	36	2	20	56.8	-0.4788	5488	-1575
36	6	13	44.9	-0.4829	5458	-1560	37	3	2	26.2	-0.6764	5526	-1479
37	6	19	18.2	-0.6777	5493	-1463	38	3	6	0.9	+0.3466	5554	-1413
38	6	22	55.5	+0.3543	5516	-1397	40	4	5	29.7	+0.5684	5714	-0920
40	7	22	45.2	+0.5929	5661	-0905	41	4	19	25.9	-0.7784	5785	-0587
41	8	12	55.6	-0.7556	5729	-0570	42	5	6	54.8	+0.4646	5831	-0283
42	9	0	36.7	+0.5018	5769	-0276	45	6	10	16.4	+0.1196	5864	+0455
45	10	4	25.9	+0.1648	5810	+0454	46	6	10	32.4	+0.3035	5864	+0463
46	10	4	42.2	+0.3499	5809	+0461	48	8	6	22.5	+0.8335	5730	+1540
48	12	0	59.2	+0.8872	5714	+1536	49	8	11	49.3	+0.3091	5704	+1652
49	12	6	27.0	+0.3627	5693	+1649	50	8	14	10.9	+0.0999	5693	+1699
50	12	8	48.8	+0.1535	5684	+1696	51	9	19	18.3	+0.4894	5552	+2175
51	13	13	48.7	+0.5398	5580	+2185	53	10	8	2.0	-1.0975	5501	+2323
52	14	1	28.3	-1.3487	5545	+2328	54	10	8	30.5	-0.5521	5498	+2328
53	14	2	23.1	-1.0390	5542	+2339	55	11	4	12.6	+0.5686	5444	+2481
54	14	2	51.3	-0.4974	5541	+2344	1	11	5	46.4	+0.6509	5442	+2490
55	14	22	12.3	+0.6098	5508	+2507	2	12	15	25.9	-0.2682	5434	+2535
1	14	23	44.2	+0.6906	5506	+2516	4	13	2	21.1	+0.5689	5454	+2495
2	16	8	34.0	-0.2304	5517	+2571	5	13	16	46.6	+0.6720	5494	+2397
3	16	14	7.1	-1.3427	5526	+2553	6	13	22	6.6	+0.1369	5514	+2349
4	16	19	11.2	+0.5924	5539	+2530	7	14	7	7.3	+0.3217	5549	+2252
15	21	3	25.4	-0.2731	5828	+0699	21	20	13	53.2	+0.9101	5539	-1105
18	22	1	46.7	-0.0856	5784	+0109	22	21	1	46.1	-1.2066	5451	-1331
19	22	18	12.8	-0.2608	5714	-0311	23	22	5	40.8	+0.0980	5250	-1764
20	23	3	7.3	+0.0110	5664	-0528	24	23	21	35.5	-1.0155	5030	-2153
21	24	5	5.5	+0.9135	5492	-1095	25	24	9	15.3	-1.0662	4988	-2222
22	24	17	6.9	-1.2098	5406	-1320	26	24	9	34.7	+0.7684	4988	-2224
23	25	21	21.3	+0.1040	5215	-1750	27	24	17	51.9	-1.1818	4967	-2262
24	27	13	34.8	-1.0042	5019	-2146	28	25	4	42.8	-0.0028	4948	-2297
25	28	1	16.9	-1.0520	4985	-2218	29	26	20	31.5	+1.3773	4984	-2301
26	28	1	36.4	+0.7854	4985	-2220	30	27	18	38.7	+0.8252	5070	-2212
27	28	9	54.2	-1.1650	4968	-2260	33	30	2	27.4	+0.3467	5456	-1620
28	28	20	44.8	+0.0164	4957	-2300	34	30	3	4.4	+1.1710	5461	-1610
29	30	12	23.2	+1.3982	5009	-2313	36	30	5	28.3	-0.4887	5480	-1571

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'	
Juni					Juli					
	<small>a h m</small>					<small>a h m</small>				
37	30 10 57.2	-0.6838	5528	-1476	35	27 12 23.8	+1.2210	5416	-1584	
38	30 14 31.3	+0.3376	5554	-1411	36	27 14 33.0	-0.6147	5435	-1549	
	Juli					37	27 20 5.8	-0.8048	5482	-1455
40	1 13 51.5	+0.5659	5734	-0919	38	27 23 42.3	+0.2246	5513	-1391	
					40	28 23 14.8	+0.4813	5704	-0902	
41	2 3 38.4	-0.7665	5824	-0580	41	29 13 5.6	-0.8335	5804	-0565	
42	2 14 57.6	+0.4732	5880	-0281	42	30 0 25.6	+0.4210	5871	-0267	
45	3 17 49.1	+0.1442	5930	+0466	44	30 11 12.7	+1.2544	5916	+0032	
46	3 18 4.8	+0.3265	5931	+0473	45	31 3 9.2	+0.1326	5956	+0484	
48	5 12 56.3	+0.8752	5804	+1565	46	31 3 24.8	+0.3144	5954	+0491	
49	5 18 15.9	+0.3592	5776	+1678		Aug.				
50	5 20 34.4	+0.1530	5764	+1725	47	1 13 44.3	-1.2853	5903	+1415	
51	7 1 8.7	+0.5551	5602	+2200	48	1 21 35.5	+0.9250	5872	+1600	
52	7 12 46.7	-1.3270	5546	+2333	49	2 2 48.0	+0.4233	5848	+1716	
53	7 13 41.6	-1.0168	5540	+2343	50	2 5 3.3	+0.2235	5836	+1763	
54	7 14 9.8	-0.4740	5539	+2347	51	3 8 53.6	+0.6661	5689	+2248	
♂	8 4 39.2	-1.3632	5311	+2409	52	3 20 12.5	-1.1738	5630	+2383	
55	8 9 41.2	+0.6488	5462	+2491	53	3 21 5.9	-0.8662	5626	+2393	
I	8 11 14.5	+0.7310	5456	+2499	54	3 21 33.3	-0.3302	5624	+2394	
2	9 20 56.0	-0.1847	5410	+2524	55	4 16 33.0	+0.8035	5540	+2538	
3	10 2 41.2	-1.3137	5414	+2503	I	4 18 3.9	+0.8868	5534	+2545	
4	10 7 57.0	+0.6542	5418	+2477	♂	5 5 8.2	+0.2231	5433	+2566	
5	10 22 33.4	+0.7553	5449	+2374	2	6 2 58.8	+0.0105	5462	+2554	
6	11 3 58.3	+0.2151	5460	+2324	3	6 8 37.7	-1.1058	5461	+2529	
7	11 13 8.1	+0.3974	5490	+2224	4	6 13 48.1	+0.8470	5462	+2500	
9	13 5 44.6	-0.3026	5659	+1570	5	7 4 12.6	+0.9510	5474	+2386	
13	13 16 20.0	-1.2730	5699	+1347	6	7 9 34.0	+0.4137	5482	+2332	
14	14 1 7.4	-1.1987	5729	+1148	7	7 18 39.4	+0.5937	5502	+2226	
23	19 13 49.0	-0.0022	5274	-1781	9	9 11 16.3	-0.1323	5629	+1553	
24	21 5 34.5	-1.1537	5047	-2167	13	9 21 56.5	-1.1173	5662	+1328	
25	21 17 12.6	-1.2135	5001	-2234	15	11 2 5.3	-0.1369	5719	+0664	
26	21 17 31.9	+0.6216	5000	-2235	18	12 1 6.4	+0.0009	5715	+0083	
27	22 1 48.5	-1.3351	4975	-2271	19	12 17 52.2	-0.2190	5676	-0336	
28	22 12 39.5	-0.1615	4952	-2304	20	13 2 53.9	+0.0309	5644	-0554	
29	24 4 38.6	+1.2128	4962	-2293	24	17 12 52.6	-1.3103	5053	-2188	
30	25 2 58.4	+0.6637	5036	-2196	26	18 0 50.5	+0.4464	5009	-2255	
33	27 11 29.9	+0.2210	5409	-1598	28	18 19 58.8	-0.6396	4958	-2321	
34	27 12 7.4	+1.0498	5415	-1588						

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
Aug.					Sept.				
29	^d 20 ^h 12 ^m 4.8	+0.9632	4952	-2297	18	^d 8 ^h 6 ^m 32.7	+0.2146	5694	+0069
30	21 10 34.5	+0.3996	5014	-2192	19	8 23 21.7	-0.0282	5646	-0351
33	23 19 56.2	-0.0310	5348	-1576	20	9 8 26.6	+0.2082	5608	-0568
34	23 20 34.4	+0.8060	5354	-1566	21	10 10 45.6	+0.9940	5473	-1141
35	23 20 51.1	+0.9788	5354	-1562	22	10 22 52.2	-1.2015	5402	-1370
36	23 23 2.9	-0.8720	5371	-1527	23	12 3 9.2	-0.0332	5235	-1810
37	24 4 42.3	-1.0590	5415	-1432	29	16 18 37.1	+0.7542	4958	-2318
38	24 8 23.1	-0.0161	5446	-1367	30	17 17 9.8	+0.1537	5012	-2206
40	25 8 25.0	+0.2714	5632	-0880	33	20 3 0.7	-0.3230	5310	-1570
41	25 22 32.7	-1.0348	5733	-0545	34	20 3 39.4	+0.5216	5316	-1560
42	26 10 5.5	+0.2492	5804	-0248	35	20 3 56.4	+0.6961	5318	-1556
44	26 21 3.7	+1.1063	5857	+0048	36	20 6 10.2	-1.1725	5330	-1519
45	27 13 13.5	+0.0072	5906	+0499	38	20 15 39.9	-0.3080	5394	-1357
46	27 13 29.2	+0.1903	5906	+0506	39	21 14 15.6	+1.0402	5546	-0909
48	29 7 51.0	+0.8912	5875	+1625	40	21 16 11.8	-0.0091	5558	-0866
49	29 13 2.0	+0.4033	5856	+1743	42	22 18 32.2	-0.0113	5709	-0237
50	29 15 16.6	+0.2099	5849	+1792	44	23 5 49.0	+0.8698	5760	+0057
51	30 18 46.6	+0.7187	5736	+2292	45	23 22 26.8	-0.2232	5806	+0504
52	31 5 52.3	-1.0730	5690	+2434	46	23 22 43.0	-0.0373	5808	+0511
53	31 6 44.6	-0.7665	5687	+2444	48	25 18 10.9	+0.7465	5796	+1626
54	31 7 11.4	-0.2352	5685	+2448	49	25 23 28.3	+0.2658	5786	+1746
Sept.					50	26 1 45.4	+0.0758	5780	+1795
55	I 1 43.3	+0.9303	5617	+2596	51	27 5 37.8	+0.6552	5704	+2307
I	I 3 11.7	+1.0160	5612	+2604	52	27 16 46.9	-1.1070	5674	+2456
♂	I 16 32.7	+1.0525	5667	+2682	53	27 17 39.3	-0.7976	5671	+2466
2	2 II 7.2	+0.2192	5555	+2615	54	27 18 6.2	-0.2652	5671	+2471
3	2 16 35.2	-0.8714	5554	+2588	55	28 12 35.2	+0.9498	5632	+2633
♃	2 17 26.8	-1.2240	5572	+2592	I	28 14 2.9	+1.0390	5629	+2642
4	2 21 35.8	+1.0594	5551	+2556	♂	28 15 55.6	-0.1511	5777	+2689
5	3 II 33.0	+1.1801	5560	+2434	2	29 21 29.6	+0.3334	5617	+2670
6	3 16 44.7	+0.6563	5566	+2377	♃	30 0 55.1	-1.1125	5649	+2668
7	4 I 34.0	+0.8418	5581	+2266	3	30 2 50.2	-0.7307	5620	+2646
9	5 17 12.7	+0.1321	5671	+1563	4	30 7 43.3	+1.1890	5626	+2615
10	5 20 36.3	-1.1300	5679	+1490	5	30 21 17.3	+1.3378	5650	+2496
13	6 3 42.4	-0.8496	5694	+1331	Okt.				
15	7 7 34.4	+0.1025	5720	+0654	6	I 2 19.5	+0.8314	5659	+2438
16	7 II 17.5	-1.1493	5719	+0560	7	I 10 52.0	+1.0295	5679	+2324

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Okt.					Okt.			
	^{d h m}					^{d h m}			
8	2 10 47.7	-1.1888	5739	+1908	2	27 8 43.2	+0.3250	5598	+2684
9	3 1 9.4	+0.3802	5770	+1600	3	27 14 5.0	-0.7273	5609	+2663
10	3 4 26.1	-0.8594	5776	+1523	4	27 18 58.4	+1.2038	5625	+2637
13	3 11 18.1	-0.5797	5786	+1358	6	28 13 28.9	+0.8836	5689	+2472
15	4 14 19.9	+0.3667	5789	+0662	7	28 21 55.2	+1.0964	5721	+2363
16	4 17 57.1	-0.8698	5785	+0566	8	29 21 23.0	-1.0600	5814	+1951
18	5 12 46.0	+0.4750	5740	+0064	9	30 11 21.8	+0.5131	5860	+1639
19	6 5 17.8	+0.2277	5670	-0360	10	30 14 32.9	-0.7065	5870	+1561
20	6 14 15.7	+0.4569	5625	-0579	11	30 14 54.7	-1.1713	5870	+1552
21	7 16 23.2	+1.2177	5462	-1153	13	30 21 12.4	-0.4216	5884	+1395
22	8 4 28.2	-0.9850	5385	-1381	15	31 23 21.1	+0.5376	5894	+0682
23	9 8 48.8	+0.1381	5209	-1820		Nov.			
24	11 1 8.6	-1.2720	5018	-2218	16	1 2 51.0	-0.6773	5890	+0581
26	11 13 13.0	+0.4327	4980	-2290	18	1 21 2.5	+0.6588	5836	+0069
31	16 21 25.7	+1.2090	5246	-1757	19	2 13 3.5	+0.4222	5753	-0364
33	17 8 56.3	-0.5270	5314	-1583	20	2 21 46.1	+0.6510	5700	-0587
34	17 9 35.2	+0.3202	5316	-1573	22	4 11 7.8	-0.7772	5419	-1395
35	17 9 52.2	+0.4951	5319	-1569	23	5 15 7.5	+0.3240	5213	-1831
38	17 21 38.2	-0.5242	5390	-1367	24	7 7 19.2	-1.1185	4999	-2223
39	18 20 23.9	+0.8194	5521	-0912	25	7 19 4.9	-1.2688	4960	-2293
40	18 22 21.4	-0.2389	5532	-0869	26	7 19 24.4	+0.5679	4959	-2295
42	20 1 6.1	-0.2473	5655	-0237	28	8 14 42.7	-0.3647	4925	-2366
44	20 12 37.6	+0.6452	5691	+0056	29	10 6 57.7	+0.7330	4954	-2351
45	21 5 41.2	-0.4584	5720	+0499	39	15 2 1.3	+0.7290	5552	-0925
46	21 5 57.9	-0.2696	5720	+0506	40	15 3 58.1	-0.3304	5561	-0882
48	23 2 51.9	+0.5576	5682	+1606	42	16 6 36.7	-0.3560	5668	-0243
49	23 8 20.7	+0.0749	5669	+1723	43	16 14 4.5	+1.2560	5688	-0053
50	23 10 42.7	-0.1152	5665	+1772	♀	16 17 20.7	+0.1052	5224	-0006
51	24 15 33.1	+0.5148	5599	+2283	44	16 18 8.7	+0.5348	5693	+0052
52	25 3 2.8	-1.2497	5581	+2436	45	17 11 18.0	-0.5805	5704	+0495
53	25 3 56.7	-0.9348	5579	+2446	46	17 11 34.8	-0.3905	5704	+0500
54	25 4 24.4	-0.3947	5579	+2451	48	19 9 15.3	+0.4426	5609	+1586
55	25 23 21.6	+0.8722	5562	+2623	49	19 14 53.0	-0.0457	5591	+1701
I	26 0 51.2	+0.9650	5561	+2632	50	19 17 19.0	-0.2382	5584	+1749
II	27 8 41.9	-1.2575	5626	+2695					

Elemente der Sternbedeckungen 1909.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
Nov.					Dez.				
	^d ^h ^m					^d ^h ^m			
51	20 23 6.5	+0.4133	5494	+2246	30	8 12 38.2	+0.0777	5015	-2244
53	21 11 58.0	-1.0538	5466	+2403	45	14 17 5.3	-0.5649	5757	+0500
54	21 12 26.8	-0.5039	5465	+2409	46	14 17 21.9	-0.3757	5757	+0508
55	22 8 7.9	+0.8002	5449	+2578	48	16 14 39.0	+0.4656	5624	+1593
1	22 9 41.0	+0.8960	5450	+2588	49	16 20 16.4	-0.0219	5599	+1706
2	23 18 41.1	+0.2755	5504	+2649	50	16 22 42.6	-0.2142	5588	+1754
3	24 0 12.8	-0.7852	5522	+2632	51	18 4 43.0	+0.4472	5460	+2234
4	24 5 14.6	+1.1758	5541	+2609	52	18 16 50.0	-1.3543	5421	+2374
5	24 19 5.7	+1.3637	5604	+2508	53	18 17 46.9	-1.0304	5418	+2383
6	25 0 11.4	+0.8686	5630	+2457	54	18 18 16.3	-0.4751	5415	+2388
7	25 8 46.5	+1.0902	5676	+2354	55	19 14 24.3	+0.8462	5376	+2544
8	26 8 27.4	-1.0535	5808	+1958	1	19 15 59.8	+0.9436	5374	+2553
9	26 22 25.7	+0.5328	5878	+1652	2	21 2 2.0	+0.3153	5404	+2600
10	27 1 35.9	-0.6825	5891	+1575	3	21 7 45.2	-0.7633	5420	+2582
11	27 1 57.6	-1.1462	5894	+1567	4	21 12 57.7	+1.2282	5440	+2559
13	27 8 12.5	-0.3926	5917	+1410	6	22 8 34.6	+0.9112	5526	+2410
15	28 9 58.9	+0.5776	5964	+0695	7	22 17 27.2	+1.1330	5577	+2310
16	28 13 24.7	-0.6262	5961	+0595	8	23 17 51.6	-1.0513	5725	+1925
18	29 7 11.3	+0.7062	5921	+0074	9	24 8 10.8	+0.5470	5811	+1628
19	29 22 47.2	+0.4768	5845	-0368	10	24 11 25.1	-0.6832	5831	+1554
20	30 7 15.4	+0.7048	5791	-0594	11	24 11 47.2	-1.1520	5833	+1545
Dez.					13	24 18 9.6	-0.3933	5864	+1392
22	1 19 36.5	-0.7013	5491	-1415	15	25 20 15.9	+0.5676	5949	+0687
23	2 22 58.8	+0.3870	5263	-1850	16	25 23 43.1	-0.6436	5951	+0588
24	4 14 37.0	-1.0535	5011	-2232	18	26 17 31.9	+0.6800	5937	+0067
25	5 2 17.6	-1.2078	4963	-2297	19	27 9 3.7	+0.4382	5880	-0377
26	5 2 37.0	+0.6196	4963	-2301	20	27 17 27.5	+0.6593	5834	-0606
28	5 21 51.1	-0.3153	4916	-2366	22	29 5 17.5	-0.7662	5555	-1438
29	7 14 7.7	+0.7643	4937	-2349	23	30 8 9.6	+0.2951	5325	-1878
					24	31 23 8.2	-1.1580	5052	-2254

Sternbedeckungen für Berlin 1909.

Tag	Nr.	Name	Eintritt mittl. Zeit	Q ₁	Austritt mittl. Zeit	Q ₂	Bemerkungen
Jan.	11 26	v Virginis . .	15 ^b 29.2	133.5	16 ^b 48.8	290.7	☾ i. Mer. 16 ^b 17 ^m
	25 55	30 Piscium . .	7 1.6	61.7	8 2.4	240.6	} ☾ Untg. 9 15
	25 1	33 Piscium . .	8 41.4	90.4	9 30.8	217.0	
Febr.	13 33	β ¹ Scorpii . .	14 58.1	167.3	15 39.3	241.4	☾ Aufg. 14 8
	27 14	ι Tauri . . .	4 55.7	86.1	6 10.7	239.6	☉ Untg. 5 32
März	3 21	γ Cancri . .	6 36.2	62.2	7 37.4	315.6	☾ i. Mer. 9 58
	10 30	x Virginis . .	13 43.7	144.8	14 56.7	279.7	☾ i. Mer. 14 57
April	3 26	v Virginis . .	11 18.0	67.5	12 3.0	358.7	☾ i. Mer. 10 53
Mai	31 30	x Virginis . .	9 57.6	100.8	11 11.4	321.6	☾ i. Mer. 9 32
Juni	24 26	v Virginis . .	10 16.7	57.3	10 47.9	358.3	☾ Untg. 12 11
Juli	5 48	33 Capricorni	11 58.0	45.4	13 0.8	282.1	☾ Aufg. 10 22
Aug.	6 4	v Piscium . .	12 32.6	33.1	13 28.4	266.8	☾ Aufg. 10 7
Sept.	3 5	ξ ¹ Ceti . . .	9 58.6	96.6	10 45.6	208.5	☾ Aufg. 8 28
	3 6	ξ Arietis . .	16 34.6	78.2	17 41.4	224.3	☉ Aufg. 17 16
	28 55	30 Piscium . .	12 21.0	97.5	13 11.4	196.1	☾ i. Mer. 11 26
Okt.	1 7	38 Arietis . .	9 22.8	81.0	10 18.2	223.1	☾ Aufg. 6 49
	4 15	132 Tauri . . .	13 21.7	16.4	13 55.5	316.1	☾ i. Mer. 16 57
	5 18	ε Geminorum	11 33.1	18.7	11 58.1	326.5	☾ Aufg. 9 2
	6 20	x Geminorum	12 47.3	52.3	13 35.9	305.9	☾ Aufg. 10 1
	30 9	ω ² Tauri . . .	10 22.9	25.0	11 10.9	288.5	☾ i. Mer. 13 43
Nov.	2 19	A Geminorum	11 39.6	52.7	12 32.4	301.4	☾ i. Mer. 16 40
	5 23	η Leonis . .	13 28.6	66.4	14 18.6	325.0	☾ Aufg. 11 18
	7 26	v Virginis . .	18 11.5	117.2	19 29.9	307.1	☉ Aufg. 19 10
	22 55	30 Piscium . .	7 41.0	51.5	8 51.2	240.6	} ☾ i. Mer. 7 52
	22 1	33 Piscium . .	9 41.5	101.5	10 29.3	192.0	
	24 4	v Piscium . .	3 38.9	85.0	4 29.7	220.0	☉ Untg. 3 54
	25 7	38 Arietis . .	7 40.8	125.3	8 7.6	174.5	☾ i. Mer. 10 27
	28 15	132 Tauri . . .	8 37.8	58.0	9 35.6	274.4	☾ Aufg. 4 38
	29 18	ε Geminorum	5 56.4	54.6	6 39.0	293.8	☾ Aufg. 5 29
	30 20	x Geminorum	6 5.0	63.3	6 47.6	298.0	☾ Aufg. 6 32
Dez.	22 6	ξ Arietis . .	8 4.4	116.3	8 42.2	180.8	☾ i. Mer. 8 16
	24 9	ω ² Tauri . . .	7 8.8	41.1	8 9.0	272.1	☾ i. Mer. 10 6
	26 18	ε Geminorum	18 6.3	86.4	18 59.5	285.2	☾ Untg. 21 0
	27 19	A Geminorum	7 40.9	50.6	8 29.5	303.5	☾ Aufg. 4 11
	27 20	x Geminorum	17 59.3	88.3	18 55.3	297.5	☾ Untg. 21 51

Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$
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TRABANT I.

Jan.	1	23 58.3	-0.0257	März	22	13 38.1	-0.0240	Juni	10	4 28.1	-0.0206	
	3	18 25.3	258		24	8 4.5	239		11	22 57.3	206	
	5	12 52.3	259		26	2 30.7	237		13	17 26.7	206	
	7	7 19.3	260		27	20 57.1	236		15	11 56.0	206	
	9	1 46.2	261		29	15 23.6	234		17	6 25.4	207	
	10	20 13.1	262		31	9 50.2	233		19	0 54.8	208	
	12	14 39.9	263		April	2	4 16.8		231	20	19 24.3	208
	14	9 6.6	263			3	22 43.4		229	22	13 53.8	209
	16	3 33.3	264			5	17 10.1		228	24	8 23.4	210
	17	21 59.9	265			7	11 37.0		227	26	2 52.9	211
19	16 26.4	266	9	6 3.7		225	27	21 22.6	212			
21	10 53.0	267	11	0 30.6		224	29	15 52.2	213			
23	5 19.4	267	12	18 57.6		223	Juli	1	10 22.0	214		
24	23 45.7	268	14	13 24.8		222		3	4 51.7	215		
26	18 12.0	268	16	7 51.9		221		4	23 21.5	217		
28	12 38.3	268	18	2 19.1		219		6	17 51.4	219		
30	7 4.6	268	19	20 46.4	218	8		12 21.3	220			
Febr.	1	1 30.8	268	21	15 13.7	216		10	6 51.1	221		
	2	19 56.8	268	23	9 41.1	215		12	1 21.0	222		
	4	14 22.8	268	25	4 8.7	214		13	19 50.9	224		
	6	8 48.9	268	26	22 36.3	213		15	14 20.9	226		
	8	3 15.0	268	28	17 4.0	213		17	8 50.9	227		
	9	21 40.9	267	30	11 31.7	212	19	3 20.9	228			
	11	16 6.9	267	Mai	2	5 59.5	211	20	21 50.9	229		
	13	10 32.8	266		4	0 27.3	210	22	16 21.1	231		
	15	4 58.8	265		5	18 55.3	209	24	10 51.1	232		
	16	23 24.7	264		7	13 23.3	209	26	5 21.2	234		
18	17 50.5	263	9		7 51.4	208	27	23 51.3	236			
20	12 16.4	262	11		2 19.6	207	29	18 21.6	238			
22	6 42.3	261	12		20 47.8	206	31	12 51.8	240			
24	1 8.1	260	14		15 16.1	205	Aug.	2	7 22.1	242		
25	19 33.9	259	16		9 44.5	205		4	1 52.2	244		
27	13 59.9	258	18		4 12.9	205		5	20 22.4	246		
März	1	8 25.7	257	19	22 41.4	204		7	14 52.5	248		
	3	2 51.6	256	21	17 10.0	204		9	9 22.8	249		
	4	21 17.5	255	23	11 38.6	204		11	3 53.1	251		
	6	15 43.4	253	25	6 7.3	203		12	22 23.5	253		
	8	10 9.3	252	27	0 35.9	203		14	16 53.7	255		
	10	4 35.3	251	28	19 4.7	203		16	11 24.0	258		
	11	23 1.3	250	30	13 33.7	203		18	5 54.3	260		
	13	17 27.3	248	Juni	1	8 2.6	204	20	0 24.7	263		
	15	11 53.4	247		3	2 31.6	204	21	18 54.9	265		
	17	6 19.5	246		4	21 0.6	205	23	13 25.3	268		
19	0 45.7	244	6		15 29.8	205	25	7 55.6	270			
20	19 11.9	242	8		9 58.9	205	27	2 26.0	272			

Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$
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TRABANT I. (Fortsetzung.)

Aug. 28	20 ^h 56.3	-0.0275	Okt. 10	9 ^h 3.6	-0.0335	Nov. 21	21 ^h 0.9	-0.0396
30	15 26.7	277	12	3 33.8	337	23	15 30.4	41
Sept. 1	9 57.0	279	13	22 3.9	340	25	9 59.8	42
3	4 27.4	281	15	16 34.1	343	27	4 29.1	43
4	22 57.7	284	17	11 4.2	345	28	22 58.5	44
6	17 28.1	287	19	5 33.4	348	30	17 27.8	45
8	11 58.5	289	21	0 4.4	350	Dec. 2	11 57.0	46
10	6 28.8	291	22	18 34.4	353	4	6 26.3	47
12	0 59.1	294	24	13 4.4	355	6	0 55.5	48
13	19 29.5	296	26	7 34.4	358	7	19 24.7	49
15	13 59.8	298	28	2 4.4	360	9	13 53.7	50
17	8 30.2	300	29	20 34.4	363	11	8 22.9	51
19	3 0.5	303	31	15 4.3	366	13	2 51.8	52
20	21 30.9	306	Nov. 2	9 34.1	368	14	21 20.6	53
22	16 1.1	309	4	4 4.0	370	16	15 49.5	54
24	10 31.4	311	5	22 33.9	373	18	10 18.4	55
26	5 1.7	313	7	17 3.8	376	20	4 47.1	56
27	23 32.0	316	9	11 33.5	378	21	23 15.7	57
29	18 2.3	319	11	6 3.1	381	23	17 44.3	58
Okt. 1	12 32.6	321	13	0 32.8	384	25	12 13.0	59
3	7 2.8	324	14	19 2.5	387	27	6 41.5	60
5	1 33.0	327	16	13 32.2	389	29	1 9.9	61
6	20 3.2	330	18	8 1.8	392	30	19 38.3	62
8	14 33.4	332	20	2 31.4	395			

TRABANT II.

Jan. 2	2 ^h 24.8	-0.0257	März 10	12 ^h 23.5	-0.0250	Mai 16	23 ^h 1.3	-0.0228
5	15 37.5	259	14	1 31.6	248	20	12 17.7	21
9	4 50.8	261	17	14 39.5	245	24	1 34.6	22
12	18 2.6	263	21	3 48.0	242	27	14 51.8	23
16	7 14.7	264	24	16 56.3	239	31	4 9.6	24
19	20 25.4	266	28	6 5.6	236	Juni 3	17 27.7	25
23	9 36.4	267	31	19 14.8	232	7	6 46.3	26
26	22 46.0	268	April 4	8 24.7	229	10	20 5.3	27
30	11 56.1	268	7	21 34.8	226	14	9 24.6	28
Febr. 3	1 4.8	268	11	10 45.7	224	17	22 44.4	29
6	14 13.9	268	14	23 56.7	222	21	12 4.2	30
10	3 22.0	267	18	13 8.7	219	25	1 24.7	31
13	16 30.5	266	22	2 20.9	216	28	14 45.4	32
17	5 38.0	264	25	15 33.7	214	Juli 2	4 6.4	33
20	18 46.1	262	29	4 47.0	213	5	17 27.6	34
24	7 53.2	260	Mai 2	18 0.9	211	9	6 49.0	35
27	21 1.2	258	6	7 15.2	209	12	20 10.8	36
März 3	10 8.3	256	9	20 30.1	207	16	9 32.7	37
6	23 16.2	253	13	9 45.5	206	19	22 54.9	38

Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit	$\frac{b}{a}$
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TRABANT II. (Fortsetzung.)

Juli 23	12 ^h 17.3 ^m	-0.0231	Sept. 18	10 ^h 33.3 ^m	-0.0303	Nov. 14	8 ^h 50.0 ^m	-0.0386
	27 1 39.8	235		21 23 57.3	308		17 22 12.2	392
	30 15 2.5	239		25 13 21.4	313		21 11 34.5	397
Aug. 3	4 25.6	243		29 2 45.3	318		25 0 56.2	402
	6 17 48.5	246	Okt. 2	16 9.3	323		28 14 18.1	407
	10 7 11.8	250		6 5 33.2	328	Dez. 2	3 39.1	412
	13 20 35.2	254		9 18 57.1	334		5 17 0.5	417
	17 9 58.7	259		13 8 20.9	339		9 6 20.9	422
	20 23 21.8	264		16 21 44.7	344		12 19 41.7	427
	24 12 45.9	269		20 11 8.3	349		16 9 1.5	431
	28 2 9.7	273		24 0 31.9	355		19 22 21.4	436
	31 15 33.9	278		27 13 55.1	360		23 11 40.2	440
Sept. 4	4 57.4	283		31 3 18.6	365		27 0 59.5	444
	7 18 21.3	288	Nov. 3	16 41.7	370		30 14 17.5	449
	11 7 45.2	293		7 6 4.7	375			
	14 21 9.2	298		10 19 27.3	381			

TRABANT III.

Jan. 4	2 ^h 1.8 ^m	-0.0258	Mai 5	12 ^h 21.1 ^m	-0.0209	Sept. 4	12 ^h 0.1 ^m	-0.0284
	11 5 38.0	262		12 16 9.4	206		11 16 26.9	294
	18 9 9.7	265		19 20 2.2	204		18 20 54.5	303
	25 12 37.4	268		26 23 58.8	203		26 1 21.6	313
Febr. 1	16 0.6	268	Juni 3	3 59.3	204	Okt. 3	5 48.9	324
	8 19 20.7	267		10 8 4.6	206		10 10 14.9	335
	15 22 37.9	265		17 12 12.7	208		17 14 40.1	346
	23 1 53.9	261		24 16 24.2	210		24 19 4.0	356
März 2	5 9.5	257	Juli 1	20 37.7	214		31 23 27.1	366
	9 8 25.5	252		9 0 53.8	220	Nov. 8	3 48.9	376
	16 11 43.4	247		16 5 11.7	226		15 8 8.8	387
	23 15 2.9	240		23 9 31.7	231		22 12 27.0	398
	30 18 25.5	233		30 13 53.9	239		29 16 42.2	408
April 6	21 51.5	227	Aug. 6	18 17.4	247	Dez. 6	20 54.6	418
	14 1 21.6	222		13 22 42.2	255		14 1 4.2	428
	21 4 56.8	217		21 3 7.7	264		21 5 10.4	437
	28 8 36.3	213		28 7 33.8	273		28 9 13.6	446

TRABANT IV.

Jan. 14	6 ^h 12.3 ^m	-0.0232	Mai 27	9 ^h 2.0 ^m	-0.0182	Sept. 22	3 ^h 35.0 ^m	-0.0266
	30 21 22.9	238	Juni 13	3 26.3	182	Okt. 9	0 7.7	288
Febr. 16	11 50.3	237		29 22 31.4	187		25 20 32.4	310
März 5	1 58.4	230	Juli 16	18 9.0	196	Nov. 11	16 40.8	332
	21 16 14.2	219	Aug. 2	14 10.7	210		28 12 25.3	353
April 7	7 4.8	207		19 10 30.1	226	Dez. 15	7 38.3	375
	23 22 46.8	195	Sept. 5	7 0.4	245		32 2 8.1	395
Mai 10	15 26.4	186						

TRABANT I.

Eintritte			Austritte			Austritte			Austritte				
Jan.	1	21 ^h 44 ^m 54 ^s	März	3	4 ^h 2 ^m 47 ^s	Mai	5	21 ^h 13 ^m 55 ^s	Juli	8	14 ^h 30 ^m 16 ^s		
	3	16 13 8		4	22 31 15		7	15 42 38		10	8 58 58		
	5	10 41 22		6	16 59 47		9	10 11 27		12	3 27 47		
	7	5 9 37		8	11 28 16		11	4 40 11		13	21 56 31		
	8	23 37 53		10	5 56 48		12	23 9 0		15	16 25 20		
	10	18 6 8		12	0 25 18		14	17 37 43		17	10 54 1		
	12	12 34 23		13	18 53 54		16	12 6 33		19	5 22 49		
	14	7 2 39		15	13 22 25		18	6 35 18		20	23 51 32		
	16	1 30 57		17	7 50 59		20	1 4 7		22	18 20 20		
	17	19 59 12		19	2 19 32		21	19 32 51		24	12 49 0		
	19	14 27 29		20	20 48 9		23	14 1 42		26	7 17 48		
	21	8 55 46		22	15 16 43		25	8 30 27		28	1 46 29		
	23	3 24 6		24	9 45 20		27	2 59 17		29	20 15 16		
	24	21 52 23		26	4 13 54		28	21 28 0		31	14 43 55		
	26	16 20 41		27	22 42 34		30	15 56 52		Aug.	2	9 12 42	
	28	10 49 0		29	17 11 9		Juni	1			10 25 37	4	3 41 22
	30	5 17 21		31	11 39 48			3			4 54 28	5	22 10 8
	31	23 45 40		April	2			6 8 24		4	23 23 12	7	16 38 46
Febr.	2	18 14 0	4		0 37 6	6	17 52 3	9	11 7 32				
	4	12 42 21	5		19 5 44	8	12 20 49	11	5 36 11				
	6	7 10 44	7		13 34 25	10	6 49 39	13	0 4 56				
	8	1 39 5	9		8 3 2	12	1 18 23	14	18 33 32				
	9	20 7 27	11		2 31 46	13	19 47 14	16	13 2 16				
	11	14 35 49	12		21 0 26	15	14 16 0	18	7 30 54				
	13	9 4 15	14		15 29 9	17	8 44 50	Eintritte	Okt.	19	3 57 57		
	15	3 32 38	16		9 57 48	19	3 13 34			20	21 42 25		
	16	22 1 2	18		4 26 34	20	21 42 25			22	16 11 10		
	18	16 29 26	19		22 55 14	22	16 11 10			24	10 40 1		
	20	10 57 55	21		17 23 59	24	10 40 1			26	5 8 44		
	22	5 26 19	23		11 52 39	27	23 37 34			27	3 37 34		
	23	23 54 46	25		6 21 27	29	18 6 19			29	18 6 19		
	25	18 23 12	27		0 50 8	Juli	1			12 35 9	28	5 21 43	
	Austritte	März	1		28		19 18 55			3	7 3 52	28	0 20 7
					30		13 47 36			5	1 32 42	29	18 48 35
					31	13 16 57	6	20 1 26	31	13 16 57			
	März	1	9 34 17	4	2 45 8	20	1 26	Nov.	2	7 45 24			

TRABANT I. (Fortsetzung.)

Eintritte		Eintritte		Eintritte		Eintritte	
Nov. 4	2 ^h 13 ^m 45 ^s	Nov. 20	0 ^h 29 ^m 7 ^s	Dez. 4	4 ^h 15 ^m 38 ^s	Dez. 18	8 ^h 1 ^m 50 ^s
5	20 42 12	21	18 57 24	5	22 43 53	20	2 30 3
7	15 10 32	23	13 25 45	7	17 12 11	21	20 58 19
9	9 38 58	25	7 54 3	9	11 40 26	23	15 26 32
11	4 7 17	27	2 22 25	11	6 8 46	25	9 54 49
12	22 35 42	28	20 50 42	13	0 37 0	27	4 23 2
14	17 4 1	30	15 19 1	14	19 5 17	28	22 51 17
16	11 32 24	Dez. 2	9 47 17	16	13 33 31	30	17 19 30
18	6 0 43						

TRABANT II.

Eintritte		Austritte		Austritte		Eintritte	
Jan. 1	22 ^h 47 ^m 10 ^s	März 17	16 ^h 53 ^m 9 ^s	Juni 10	23 ^h 56 ^m 45 ^s	Okt. 23	22 ^h 1 ^m 48 ^s
5	12 4 37	21	6 11 20	14	13 14 2	27	11 18 46
9	1 23 11	24	19 28 56	18	2 31 19	31	0 35 58
12	14 40 40	28	8 47 3	21	15 48 33	Nov. 3	13 52 56
16	3 59 14	31	22 4 39	25	5 5 46	7	3 10 12
19	17 16 45	April 4	11 22 42	28	18 22 56	10	16 27 11
23	6 35 19	8	0 40 19	Juli 2	7 40 6	14	5 44 31
26	19 52 51	11	13 58 18	5	20 57 14	17	19 1 30
30	9 11 24	15	3 15 54	9	10 14 21	21	8 18 56
Febr. 2	22 28 58	18	16 33 48	12	23 31 25	24	21 35 56
6	11 47 30	22	5 51 24	16	12 48 30	28	10 53 26
10	1 5 6	25	19 9 14	20	2 5 32	Dez. 2	0 10 27
13	14 23 37	29	8 26 48	23	15 22 34	5	13 28 2
17	3 41 14	Mai 2	21 44 34	27	4 39 35	9	2 45 5
20	16 59 44	6	11 2 5	30	17 56 34	12	16 2 46
24	6 17 23	10	0 19 45	Aug. 3	7 13 33	16	5 19 50
27	19 35 51	13	13 37 15	6	20 30 30	19	18 37 37
		17	2 54 51	10	9 47 27	23	7 54 42
		20	16 12 19	13	23 4 23	26	21 12 35
		24	5 29 49	17	12 21 20	30	10 29 42
		27	18 47 15				
		31	8 4 41				
Austritte		Juni 3	21 22 4	Eintritte			
März 3	11 41 28	7	10 39 25	Okt. 20	8 44 40		
7	0 59 45						
10	14 17 20						
14	3 35 34						

Mitte der Verfinsternung		Halbe Dauer	Mitte der Verfinsternung		Halbe Dauer
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TRABANT III.

Jan. 3	21 ^h 38 ^m 58 ^s	1 ^h 41 ^m 38 ^s	Juni 17	17 ^h 5 ^m 51 ^s	1 ^h 32 ^m 56 ^s
11	1 36 30	1 41 20	24	21 5 41	1 32 28
18	5 33 59	1 41 2	Juli 2	1 4 51	1 32 0
25	9 32 6	1 40 43	9	5 3 52	1 31 32
Febr. 1	13 29 41	1 40 24	16	9 2 40	1 31 3
8	17 27 19	1 40 4	23	13 1 31	1 30 34
15	21 24 50	1 39 44	30	17 0 50	1 30 4
23	1 22 33	1 39 23	Aug. 6	20 59 51	1 29 34
März 2	5 20 55	1 39 2	14	0 59 15	1 29 3
9	9 19 16	1 38 41			
16	13 18 17	1 38 19	Okt. 24	16 41 31	1 23 40
23	17 16 48	1 37 57	31	20 38 59	1 23 6
30	21 15 23	1 37 34	Nov. 8	0 36 56	1 22 32
April 7	1 13 51	1 37 11	15	4 34 29	1 21 57
14	5 12 30	1 36 48	22	8 32 22	1 21 22
21	9 11 46	1 36 24	29	12 29 33	1 20 47
28	13 10 56	1 35 59	Dez. 6	16 26 32	1 20 12
Mai 5	17 10 40	1 35 34	13	20 23 22	1 19 37
12	21 9 49	1 35 9	21	0 20 16	1 19 2
20	1 8 56	1 34 43	28	4 17 42	1 18 26
27	5 7 52	1 34 17	35	8 14 47	1 17 50
Juni 3	9 6 55	1 33 50			
10	13 6 30	1 33 23			

TRABANT IV.

Jan. 13	21 ^h 10 ^m 16 ^s	2 ^h 9 ^m 35 ^s	Juli 17	3 ^h 3 ^m 58 ^s	1 ^h 35 ^m 42 ^s
30	15 7 41	2 7 25	Aug. 2	21 3 2	1 31 16
Febr. 16	9 6 1	2 5 5	19	15 1 34	1 26 32
März 5	3 4 27	2 2 35	Sept. 5	9 0 6	1 21 27
21	21 3 25	1 59 54	22	2 57 34	1 15 57
April 7	15 3 28	1 57 3	Okt. 8	20 54 29	1 10 0
24	9 3 24	1 54 1	25	14 51 22	1 3 22
Mai 11	3 3 27	1 50 48	Nov. 11	8 47 10	0 55 54
27	21 4 8	1 47 22	28	2 42 35	0 47 11
Juni 13	15 4 13	1 43 44	Dez. 14	20 38 12	0 36 25
30	9 3 59	1 39 50	31	14 32 55	0 20 46

	δ^h	α	β	p_α	α	b	U'	B'	P'
Juli	8	17.64	15.91	-0.05	39.74	-9.04	206 20.6	-10° 35.7	+24° 59.0
	12	17.76	16.02	0.05	40.02	9.14	206 28.3	10 39.2	24 57.2
	16	17.89	16.14	0.05	40.31	9.24	206 36.0	10 42.6	24 55.4
	20	18.02	16.25	0.05	40.60	9.33	206 43.7	10 46.1	24 53.6
	24	18.15	16.37	-0.05	40.89	-9.41	206 51.4	-10 49.5	+24 51.8
Aug.	28	18.28	16.49	0.05	41.18	9.48	206 59.1	10 53.0	24 50.0
	1	18.41	16.60	0.05	41.48	9.55	207 6.8	10 56.4	24 48.2
	5	18.54	16.72	0.05	41.77	9.61	207 14.5	10 59.9	24 46.4
	9	18.67	16.83	-0.05	42.06	-9.66	207 22.2	-11 3.3	+24 44.6
	13	18.80	16.95	0.04	42.34	9.70	207 29.9	11 6.8	24 42.8
	17	18.92	17.06	0.04	42.62	9.73	207 37.6	11 10.2	24 40.9
	21	19.04	17.17	0.04	42.89	9.75	207 45.3	11 13.7	24 39.1
	25	19.16	17.27	-0.03	43.16	-9.77	207 53.0	-11 17.1	+24 37.2
Sept.	29	19.27	17.37	0.03	43.41	9.77	208 0.7	11 20.6	24 35.3
	2	19.38	17.46	0.03	43.65	9.76	208 8.4	11 24.0	24 33.4
	6	19.48	17.55	0.02	43.87	9.74	208 16.1	11 27.4	24 31.5
	10	19.57	17.63	-0.02	44.08	-9.71	208 23.9	-11 30.8	+24 29.6
	14	19.65	17.70	0.02	44.26	9.67	208 31.6	11 34.3	24 27.7
	18	19.72	17.77	0.01	44.43	9.63	208 39.4	11 37.7	24 25.8
	22	19.78	17.83	0.01	44.58	9.57	208 47.1	11 41.1	24 23.9
	26	19.84	17.88	-0.01	44.70	-9.50	208 54.9	-11 44.5	+24 21.9
Okt.	30	19.89	17.92	0.00	44.80	9.42	209 2.6	11 47.9	24 20.0
	4	19.92	17.94	0.00	44.87	9.34	209 10.4	11 51.3	24 18.0
	8	19.94	17.95	0.00	44.92	9.25	209 18.2	11 54.7	24 16.1
	12	19.95	17.96	0.00	44.94	-9.16	209 26.0	-11 58.1	+24 14.1
	16	19.95	17.96	0.00	44.94	9.06	209 33.8	12 1.5	24 12.1
	20	19.94	17.95	0.00	44.91	8.96	209 41.6	12 4.9	24 10.1
	24	19.92	17.93	0.00	44.85	8.85	209 49.4	12 8.3	24 8.1
	28	19.88	17.89	0.00	44.77	-8.74	209 57.2	-12 11.7	+24 6.1
Nov.	1	19.83	17.84	+0.01	44.66	8.63	210 5.0	12 15.1	24 4.1
	5	19.77	17.79	0.01	44.53	8.52	210 12.8	12 18.5	24 2.1
	9	19.70	17.72	0.01	44.37	8.41	210 20.6	12 21.9	24 0.1
	13	19.62	17.65	+0.02	44.19	-8.31	210 28.4	-12 25.2	+23 58.0
	17	19.53	17.57	0.02	43.99	8.21	210 36.2	12 28.6	23 56.0
	21	19.44	17.48	0.02	43.78	8.11	210 44.1	12 32.0	23 53.9
	25	19.34	17.39	0.03	43.55	8.02	210 51.9	12 35.4	23 51.8
	29	19.23	17.29	+0.03	43.30	-7.94	210 59.8	-12 38.7	+23 49.7
Dez.	3	19.11	17.19	0.04	43.04	7.86	211 7.6	12 42.1	23 47.6
	7	18.99	17.08	0.04	42.77	7.79	211 15.5	12 45.5	23 45.5
	11	18.87	16.97	0.04	42.49	7.73	211 23.3	12 48.9	23 43.4
	15	18.74	16.85	+0.04	42.21	-7.67	211 31.2	-12 52.2	+23 41.3
	19	18.61	16.74	0.05	41.92	7.63	211 39.0	12 55.6	23 39.2
	23	18.48	16.62	0.05	41.62	7.59	211 46.9	12 59.0	23 37.1
	27	18.35	16.50	0.05	41.32	7.56	211 54.8	13 2.4	23 35.0
	31	18.22	16.39	+0.05	41.03	-7.54	212 2.7	-13 5.7	+23 32.8

		α^h	U	B	P			α^h	U	B	P
Juli	8	254° 42.2	-13° 9.2	+1° 49.5	Okt.	4	252° 53.2	-12° 1.1	+2° 1.9		
	10	254 47.5	13 10.8	1 48.9		6	252 44.5	11 57.2	2 2.9		
	12	254 52.4	13 12.3	1 48.3		8	252 35.8	11 53.3	2 3.9		
	14	254 57.0	13 13.6	1 47.8		10	252 27.0	11 49.4	2 4.9		
	16	255 1.2	-13 14.8	+1 47.3		12	252 18.1	-11 45.4	+2 5.9		
	18	255 5.0	13 15.8	1 46.8		14	252 9.2	11 41.5	2 6.9		
	20	255 8.5	13 16.7	1 46.4		16	252 0.3	11 37.6	2 7.9		
	22	255 11.6	13 17.4	1 46.0		18	251 51.4	11 33.8	2 8.9		
	24	255 14.4	-13 18.0	+1 45.7		20	251 42.6	-11 30.0	+2 9.9		
	26	255 16.7	13 18.4	1 45.4		22	251 33.9	11 26.2	2 10.9		
28	255 18.7	13 18.6	1 45.2	24	251 25.2	11 22.5	2 11.9				
30	255 20.2	13 18.6	1 45.0	26	251 16.6	11 18.8	2 12.9				
Aug.	1	255 21.4	-13 18.5	+1 44.9	28	251 8.1	-11 15.2	+2 13.8			
	3	255 22.2	13 18.2	1 44.8	30	250 59.8	11 11.7	2 14.7			
	5	255 22.6	13 17.8	1 44.8	Nov.	1	250 51.6	11 8.3	2 15.6		
	7	255 22.6	13 17.2	1 44.8		3	250 43.6	11 5.0	2 16.5		
	9	255 22.2	-13 16.5	+1 44.8		5	250 35.7	-11 1.8	+2 17.4		
	11	255 21.4	13 15.6	1 44.9		7	250 28.1	10 58.7	2 18.2		
	13	255 20.2	13 14.5	1 45.1		9	250 20.7	10 55.7	2 19.0		
	15	255 18.6	13 13.3	1 45.3		11	250 13.6	10 52.8	2 19.8		
	17	255 16.7	-13 11.9	+1 45.5		13	250 6.7	-10 50.1	+2 20.6		
	19	255 14.3	13 10.3	1 45.8		15	250 0.1	10 47.5	2 21.4		
21	255 11.6	13 8.6	1 46.1	17		249 53.7	10 45.1	2 22.1			
23	255 8.5	13 6.8	1 46.4	19		249 47.6	10 42.8	2 22.8			
25	255 5.0	-13 4.8	+1 46.8	21	249 41.9	-10 40.7	+2 23.4				
27	255 1.2	13 2.7	1 47.2	23	249 36.5	10 38.7	2 24.0				
29	254 57.0	13 0.4	1 47.7	25	249 31.4	10 36.9	2 24.6				
31	254 52.5	12 58.0	1 48.2	27	249 26.6	10 35.2	2 25.1				
Sept.	2	254 47.6	-12 55.5	+1 48.8	29	249 22.2	-10 33.7	+2 25.6			
	4	254 42.4	12 52.8	1 49.4	Dez.	1	249 18.2	10 32.4	2 26.1		
	6	254 36.9	12 50.0	1 50.0		3	249 14.5	10 31.2	2 26.5		
	8	254 31.1	12 47.1	1 50.7		5	249 11.2	10 30.3	2 26.9		
	10	254 25.0	-12 44.0	+1 51.4		7	249 8.3	-10 29.5	+2 27.2		
	12	254 18.6	12 40.8	1 52.1		9	249 5.8	10 28.9	2 27.5		
	14	254 11.9	12 37.6	1 52.9		11	249 3.6	10 28.5	2 27.7		
	16	254 5.0	12 34.2	1 53.7		13	249 1.8	10 28.3	2 27.9		
	18	253 57.8	-12 30.8	+1 54.5		15	249 0.5	-10 28.3	+2 28.0		
	20	253 50.4	12 27.3	1 55.3		17	248 59.5	10 28.5	2 28.1		
22	253 42.7	12 23.7	1 56.2	19		248 59.0	10 28.9	2 28.2			
24	253 34.8	12 20.1	1 57.1	21	248 58.9	10 29.5	2 28.2				
26	253 26.8	-12 16.4	+1 58.0	23	248 59.2	-10 30.2	+2 28.2				
28	253 18.6	12 12.6	1 58.9	25	248 59.8	10 31.1	2 28.1				
30	253 10.3	12 8.8	1 59.9	27	249 0.9	10 32.2	2 28.0				
Okt.	2	253 1.8	12 5.0	2 0.9	29	249 2.4	10 33.5	2 27.8			
	4	252 53.2	-12 1.1	+2 1.9	31	249 4.3	-10 34.9	+2 27.6			

MIMAS.

	α^h	L	M	$\log \frac{\alpha(p)}{p}$	$\frac{\alpha(p)}{p} \sin B$		α^h	L	M	$\log \frac{\alpha(p)}{p}$	$\frac{\alpha(p)}{p} \sin B$
Juli	8	121° 28.0	295.91	1.43267	-6.16	Okt.	4	257° 40.6	344.12	1.48541	-6.37
	10	165 28.3	337.91	1.43419	6.20		6	301 40.9	26.12	1.48567	6.34
	12	209 28.6	19.92	1.43572	6.23		8	345 41.2	68.12	1.48588	6.31
	14	253 28.9	61.92	1.43726	6.26		10	29 41.4	110.13	1.48602	6.28
	16	297 29.2	103.93	1.43881	-6.29		12	73 41.7	152.13	1.48609	-6.24
	18	341 29.5	145.93	1.44036	6.32		14	117 42.0	194.14	1.48610	6.21
	20	25 29.8	187.94	1.44191	6.35		16	161 42.2	236.14	1.48605	6.17
	22	69 30.1	229.94	1.44346	6.38		18	205 42.5	278.15	1.48593	6.14
	24	113 30.4	271.95	1.44502	-6.41		20	249 42.8	320.15	1.48574	-6.10
	26	157 30.7	313.95	1.44657	6.44		22	293 43.0	2.16	1.48549	6.07
	28	201 31.0	355.96	1.44812	6.46		24	337 43.3	44.16	1.48518	6.03
	30	245 31.3	37.96	1.44967	6.49		26	21 43.5	86.16	1.48481	5.99
Aug.	1	289 31.6	79.96	1.45121	-6.51		28	65 43.8	128.17	1.48437	-5.95
	3	333 31.8	121.97	1.45274	6.53		30	109 44.1	170.17	1.48388	5.91
	5	17 32.1	163.97	1.45426	6.55	Nov.	1	153 44.3	212.18	1.48332	5.87
	7	61 32.4	205.98	1.45577	6.57		3	197 44.6	254.18	1.48270	5.83
	9	105 32.7	247.98	1.45726	-6.58		5	241 44.8	296.18	1.48203	-5.80
	11	149 33.0	289.99	1.45874	6.60		7	285 45.1	338.19	1.48130	5.76
	13	193 33.3	331.99	1.46020	6.61		9	329 45.4	20.19	1.48051	5.73
	15	237 33.6	14.00	1.46164	6.62		11	13 45.6	62.20	1.47966	5.69
	17	281 33.8	56.00	1.46306	-6.63		13	57 45.9	104.20	1.47877	-5.66
	19	325 34.1	98.01	1.46445	6.64		15	101 46.2	146.20	1.47782	5.62
	21	9 34.4	140.01	1.46582	6.65		17	145 46.4	188.21	1.47682	5.59
	23	53 34.7	182.02	1.46716	6.66		19	189 46.7	230.21	1.47578	5.56
	25	97 35.0	224.02	1.46847	-6.66		21	233 46.9	272.22	1.47469	-5.53
	27	141 35.3	266.03	1.46974	6.66		23	277 47.2	314.22	1.47356	5.50
	29	185 35.6	308.03	1.47098	6.66		25	321 47.4	356.22	1.47238	5.47
	31	229 35.9	350.04	1.47219	6.66		27	5 47.7	38.23	1.47117	5.44
Sept	2	273 36.2	32.04	1.47336	-6.65		29	49 47.9	80.23	1.46992	-5.41
	4	317 36.4	74.05	1.47448	6.65	Dez.	1	93 48.2	122.24	1.46863	5.38
	6	1 36.7	116.05	1.47557	6.64		3	137 48.4	164.24	1.46731	5.36
	8	45 37.0	158.06	1.47661	6.63		5	181 48.7	206.24	1.46596	5.33
	10	89 37.3	200.06	1.47761	-6.62		7	225 48.9	248.25	1.46458	-5.31
	12	133 37.6	242.07	1.47856	6.61		9	269 49.2	290.25	1.46317	5.29
	14	177 37.8	284.07	1.47946	6.59		11	313 49.4	332.26	1.46173	5.27
	16	221 38.1	326.08	1.48031	6.58		13	357 49.7	14.26	1.46028	5.25
	18	265 38.4	8.08	1.48110	-6.56		15	41 49.9	56.27	1.45880	-5.23
	20	309 38.7	50.09	1.48184	6.54		17	85 50.2	98.27	1.45730	5.21
	22	353 39.0	92.09	1.48253	6.52		19	129 50.4	140.28	1.45579	5.20
	24	37 39.2	134.10	1.48316	6.50		21	173 50.7	182.28	1.45427	5.18
	26	81 39.5	176.10	1.48373	-6.48		23	217 50.9	224.28	1.45274	-5.17
	28	125 39.8	218.10	1.48424	6.46		25	261 51.2	266.29	1.45119	5.16
	30	169 40.0	260.11	1.48469	6.43		27	305 51.4	308.29	1.44964	5.15
Okt.	2	213 40.3	302.11	1.48508	6.40		29	349 51.7	350.30	1.44808	5.14
	4	257 40.6	344.12	1.48541	-6.37		31	33 51.9	32.30	1.44652	-5.13

MIMAS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+0° 0.0—	9.99167	360°	90°	+2° 10.6—	0.00016	270°
2	0 4.7	9.99167	358	92	2 10.4	0.00044	268
4	0 9.3	9.99169	356	94	2 10.1	0.00073	266
6	0 14.0	9.99172	354	96	2 9.6	0.00101	264
8	0 18.6	9.99175	352	98	2 8.9	0.00130	262
10	+0 23.2—	9.99180	350	100	+2 8.1—	0.00158	260
12	0 27.8	9.99186	348	102	2 7.1	0.00186	258
14	0 32.3	9.99193	346	104	2 6.0	0.00214	256
16	0 36.8	9.99201	344	106	2 4.7	0.00241	254
18	0 41.3	9.99210	342	108	2 3.3	0.00268	252
20	+0 45.7—	9.99220	340	110	+2 1.7—	0.00295	250
22	0 50.0	9.99230	338	112	2 0.0	0.00321	248
24	0 54.3	9.99242	336	114	1 58.2	0.00347	246
26	0 58.5	9.99255	334	116	1 56.2	0.00373	244
28	1 2.6	9.99269	332	118	1 54.0	0.00398	242
30	+1 6.7—	9.99284	330	120	+1 51.8—	0.00422	240
32	1 10.6	9.99299	328	122	1 49.4	0.00446	238
34	1 14.5	9.99316	326	124	1 46.9	0.00469	236
36	1 18.3	9.99333	324	126	1 44.2	0.00492	234
38	1 22.0	9.99351	322	128	1 41.4	0.00514	232
40	+1 25.5—	9.99370	320	130	+1 38.6—	0.00536	230
42	1 29.0	9.99390	318	132	1 35.6	0.00557	228
44	1 32.3	9.99410	316	134	1 32.4	0.00577	226
46	1 35.5	9.99431	314	136	1 29.2	0.00597	224
48	1 38.6	9.99453	312	138	1 25.9	0.00616	222
50	+1 41.6—	9.99476	310	140	+1 22.5—	0.00634	220
52	1 44.5	9.99499	308	142	1 18.9	0.00651	218
54	1 47.2	9.99523	306	144	1 15.3	0.00668	216
56	1 49.7	9.99547	304	146	1 11.6	0.00683	214
58	1 52.2	9.99572	302	148	1 7.9	0.00698	212
60	+1 54.5—	9.99598	300	150	+1 4.0—	0.00713	210
62	1 56.6	9.99623	298	152	1 0.1	0.00726	208
64	1 58.6	9.99650	296	154	0 56.1	0.00738	206
66	2 0.5	9.99676	294	156	0 52.0	0.00750	204
68	2 2.2	9.99704	292	158	0 47.9	0.00760	202
70	+2 3.7—	9.99731	290	160	+0 43.7—	0.00770	200
72	2 5.1	9.99759	288	162	0 39.5	0.00779	198
74	2 6.4	9.99787	286	164	0 35.2	0.00787	196
76	2 7.5	9.99815	284	166	0 30.9	0.00794	194
78	2 8.4	9.99843	282	168	0 26.5	0.00800	192
80	+2 9.2—	9.99872	280	170	+0 22.2—	0.00805	190
82	2 9.8	9.99900	278	172	0 17.8	0.00810	188
84	2 10.2	9.99929	276	174	0 13.3	0.00813	186
86	2 10.5	9.99958	274	176	0 8.9	0.00815	184
88	2 10.6	9.99987	272	178	0 4.5	0.00817	182
90	+2 10.6—	0.00016	270	180	+0 0.0—	0.00817	180

ENCELADUS.

	o^b	L	M	$\log \frac{\alpha(\rho)}{\rho}$	$\frac{\alpha(\rho)}{\rho} \sin B$		o^b	L	M	$\log \frac{\alpha(\rho)}{\rho}$	$\frac{\alpha(\rho)}{\rho} \sin B$
Juli	8	348° 29.3	184.0	1.54088	-7.91	Okt.	4	68° 52.5	234.6	1.59362	-8.17
	10	153 57.1	348.8	1.54240	7.95		6	234 20.4	39.4	1.59388	8.13
	12	319 24.9	153.6	1.54393	7.99		8	39 48.2	204.2	1.59409	8.09
	14	124 52.7	318.4	1.54547	8.03		10	205 16.0	9.0	1.59423	8.05
	16	290 20.4	123.1	1.54702	-8.07		12	10 43.8	173.8	1.59430	-8.01
	18	95 48.2	287.9	1.54857	8.11		14	176 11.6	338.6	1.59431	7.97
	20	261 16.0	92.7	1.55012	8.15		16	341 39.4	143.4	1.59426	7.92
	22	66 43.8	257.5	1.55167	8.19		18	147 7.3	308.2	1.59414	7.88
	24	232 11.6	62.3	1.55323	-8.22		20	312 35.1	112.9	1.59395	-7.83
	26	37 39.4	227.1	1.55478	8.26		22	118 2.9	277.7	1.59370	7.79
	28	203 7.2	31.9	1.55633	8.29		24	283 30.7	82.5	1.59339	7.74
	30	8 35.0	196.7	1.55788	8.32		26	88 58.6	247.3	1.59302	7.69
Aug.	1	174 2.7	1.4	1.55942	-8.35		28	254 26.4	52.1	1.59258	-7.64
	3	339 30.5	166.2	1.56095	8.38		30	59 54.2	216.9	1.59209	7.60
	5	144 58.3	331.0	1.56247	8.40	Nov.	1	225 22.0	21.7	1.59153	7.55
	7	310 26.1	135.8	1.56398	8.42		3	30 49.9	186.5	1.59091	7.50
	9	115 53.9	300.6	1.56547	-8.44		5	196 17.7	351.2	1.59024	-7.45
	11	281 21.7	105.4	1.56695	8.46		7	1 45.5	156.0	1.58951	7.40
	13	86 49.5	270.2	1.56841	8.48		9	167 13.3	320.8	1.58872	7.35
	15	252 17.3	75.0	1.56985	8.50		11	332 41.2	125.6	1.58787	7.30
	17	57 45.1	239.7	1.57127	-8.51		13	138 9.0	290.4	1.58698	-7.26
	19	223 12.9	44.5	1.57266	8.52		15	303 36.8	95.2	1.58603	7.21
	21	28 40.7	209.3	1.57403	8.53		17	109 4.6	260.0	1.58503	7.17
	23	194 8.5	14.1	1.57537	8.54		19	274 32.5	64.8	1.58399	7.13
	25	359 36.3	178.9	1.57668	-8.54		21	80 0.3	229.5	1.58290	-7.09
	27	165 4.1	343.7	1.57795	8.54		23	245 28.1	34.3	1.58177	7.05
	29	330 31.9	148.5	1.57919	8.54		25	50 55.9	199.1	1.58059	7.01
	31	135 59.7	313.3	1.58040	8.54		27	216 23.8	3.9	1.57938	6.97
Sept.	2	301 27.5	118.0	1.58157	-8.53		29	21 51.6	168.7	1.57813	-6.94
	4	106 55.4	282.8	1.58269	8.52	Dez.	1	187 19.4	333.5	1.57684	6.90
	6	272 23.2	87.6	1.58378	8.51		3	352 47.3	138.3	1.57552	6.87
	8	77 51.0	252.4	1.58482	8.50		5	158 15.1	303.1	1.57417	6.84
	10	243 18.8	57.2	1.58582	-8.49		7	323 42.9	107.8	1.57279	-6.81
	12	48 46.6	222.0	1.58677	8.48		9	129 10.8	272.6	1.57138	6.78
	14	214 14.4	26.8	1.58767	8.46		11	294 38.6	77.4	1.56994	6.76
	16	19 42.2	191.6	1.58852	8.44		13	100 6.5	242.2	1.56849	6.73
	18	185 10.0	356.3	1.58931	-8.42		15	265 34.3	47.0	1.56701	-6.71
	20	350 37.9	161.1	1.59005	8.40		17	71 2.1	211.8	1.56551	6.69
	22	156 5.7	325.9	1.59074	8.37		19	236 30.0	16.6	1.56400	6.67
	24	321 33.5	130.7	1.59137	8.34		21	41 57.8	181.4	1.56248	6.65
	26	127 1.3	295.5	1.59194	-8.31		23	207 25.6	346.2	1.56095	-6.63
	28	292 29.1	100.3	1.59245	8.28		25	12 53.5	151.0	1.55940	6.62
	30	97 56.9	265.1	1.59290	8.24		27	178 21.3	315.8	1.55785	6.61
Okt.	2	263 24.7	69.9	1.59329	8.21		29	343 49.2	120.6	1.55629	6.60
	4	68 52.5	234.6	1.59362	-8.17		31	149 17.0	285.4	1.55473	-6.59

ENCELADUS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0—	9.99800	360°	90°	+31.6—	0.00001	271
2	1.1	9.99800	358	92	31.6	0.00008	268
4	2.2	9.99800	356	94	31.5	0.00015	265
6	3.3	9.99801	354	96	31.4	0.00022	262
8	4.4	9.99802	352	98	31.3	0.00029	259
10	+ 5.5—	9.99803	350	100	+31.1—	0.00035	256
12	6.6	9.99804	348	102	30.9	0.00042	253
14	7.7	9.99806	346	104	30.6	0.00049	250
16	8.8	9.99808	344	106	30.3	0.00056	247
18	9.8	9.99810	342	108	30.0	0.00062	244
20	+10.9—	9.99812	340	110	+29.7—	0.00069	241
22	11.9	9.99814	338	112°	29.3	0.00075	238
24	12.9	9.99817	336	114	28.8	0.00082	235
26	13.9	9.99820	334	116	28.3	0.00088	232
28	14.9	9.99823	332	118	27.8	0.00094	229
30	+15.9—	9.99827	330	120	+27.3—	0.00100	226
32	16.8	9.99830	328	122	26.7	0.00106	223
34	17.8	9.99834	326	124	26.1	0.00112	220
36	18.7	9.99838	324	126	25.5	0.00118	217
38	19.6	9.99842	322	128	24.8	0.00123	214
40	+20.4—	9.99847	320	130	+24.1—	0.00129	211
42	21.3	9.99852	318	132	23.4	0.00134	208
44	22.1	9.99856	316	134	22.7	0.00139	205
46	22.8	9.99861	314	136	21.9	0.00144	202
48	23.6	9.99866	312	138	21.1	0.00148	199
50	+24.3—	9.99872	310	140	+20.2—	0.00153	196
52	25.0	9.99877	308	142	19.4	0.00157	193
54	25.7	9.99883	306	144	18.5	0.00162	190
56	26.3	9.99889	304	146	17.6	0.00166	187
58	26.9	9.99895	302	148	16.7	0.00169	184
60	+27.5—	9.99901	300	150	+15.7—	0.00173	181
62	28.0	9.99907	298	152	14.8	0.00176	178
64	28.5	9.99913	296	154	13.8	0.00179	175
66	29.0	9.99919	294	156	12.8	0.00182	172
68	29.4	9.99926	292	158	11.8	0.00185	169
70	+29.8—	9.99932	290	160	+10.8—	0.00187	166
72	30.1	9.99939	288	162	9.7	0.00190	163
74	30.4	9.99946	286	164	8.7	0.00192	160
76	30.7	9.99952	284	166	7.6	0.00193	157
78	31.0	9.99959	282	168	6.5	0.00195	154
80	+31.2—	9.99966	280	170	+ 5.5—	0.00196	151
82	31.3	9.99973	278	172	4.4	0.00197	148
84	31.5	9.99980	276	174	3.3	0.00198	145
86	31.6	9.99987	274	176	2.2	0.00199	142
88	31.6	9.99994	272	178	1.1	0.00199	139
90	+31.6—	0.00001	270	180	+ 0.0—	0.00199	136

TETHYS.

\circ^h	L	$\log \frac{a(p)}{p}$	$\frac{a(p)}{p} \sin B$	\circ^h	L	$\log \frac{a(p)}{p}$	$\frac{a(p)}{p} \sin B$
Juli 8	327° 26.5	1.63357	— 9.79	Okt. 4	188° 49.4	1.68631	— 10.11
10	348 50.2	1.63509	9.85	6	210 13.1	1.68657	10.06
12	10 13.9	1.63662	9.90	8	231 36.8	1.68678	10.01
14	31 37.6	1.63816	9.95	10	253 0.5	1.68692	9.96
16	53 1.3	1.63971	— 10.00	12	274 24.2	1.68699	— 9.91
18	74 25.0	1.64126	10.05	14	295 47.9	1.68700	9.86
20	95 48.7	1.64281	10.09	16	317 11.6	1.68695	9.80
22	117 12.4	1.64436	10.14	18	338 35.3	1.68683	9.75
24	138 36.1	1.64592	— 10.18	20	359 59.0	1.68664	— 9.69
26	159 59.8	1.64747	10.22	22	21 22.7	1.68639	9.64
28	181 23.5	1.64902	10.26	24	42 46.4	1.68608	9.58
30	202 47.2	1.65057	10.30	26	64 10.1	1.68571	9.52
Aug. 1	224 10.9	1.65211	— 10.33	28	85 33.8	1.68527	— 9.46
3	245 34.6	1.65364	10.36	30	106 57.5	1.68478	9.40
5	266 58.3	1.65516	10.39	Nov. 1	128 21.2	1.68422	9.34
7	288 22.0	1.65667	10.42	3	149 44.9	1.68360	9.28
9	309 45.7	1.65816	— 10.45	5	171 8.5	1.68293	— 9.22
11	331 9.4	1.65964	10.47	7	192 32.2	1.68220	9.16
13	352 33.1	1.66110	10.49	9	213 55.9	1.68141	9.10
15	13 56.8	1.66254	10.51	11	235 19.6	1.68056	9.04
17	35 20.5	1.66396	— 10.53	13	256 43.3	1.67967	— 8.99
19	56 44.2	1.66535	10.54	15	278 7.0	1.67872	8.93
21	78 7.9	1.66672	10.55	17	299 30.7	1.67772	8.88
23	99 31.6	1.66806	10.56	19	320 54.4	1.67668	8.83
25	120 55.3	1.66937	— 10.57	21	342 18.1	1.67559	— 8.78
27	142 19.0	1.67064	10.58	23	3 41.8	1.67446	8.73
29	163 42.7	1.67188	10.58	25	25 5.5	1.67328	8.68
31	185 6.4	1.67309	10.58	27	46 29.2	1.67207	8.63
Sept. 2	206 30.1	1.67426	— 10.57	29	67 52.9	1.67082	— 8.59
4	227 53.9	1.67538	10.56	Dec. 1	89 16.6	1.66953	8.55
6	249 17.6	1.67647	10.55	3	110 40.3	1.66821	8.51
8	270 41.3	1.67751	10.54	5	132 4.0	1.66686	8.47
10	292 5.0	1.67851	— 10.52	7	153 27.6	1.66548	— 8.43
12	313 28.7	1.67946	10.50	9	174 51.3	1.66407	8.39
14	334 52.4	1.68036	10.48	11	196 15.0	1.66263	8.36
16	356 16.1	1.68121	10.45	13	217 38.7	1.66118	8.33
18	17 39.8	1.68200	— 10.42	15	239 2.4	1.65970	— 8.30
20	39 3.5	1.68274	10.39	17	260 26.1	1.65820	8.27
22	60 27.2	1.68343	10.35	19	281 49.8	1.65669	8.25
24	81 50.9	1.68406	10.32	21	303 13.5	1.65517	8.23
26	103 14.6	1.68463	— 10.28	23	324 37.2	1.65364	— 8.21
28	124 38.3	1.68514	10.24	25	346 0.9	1.65209	8.19
30	146 2.0	1.68559	10.20	27	7 24.6	1.65054	8.18
Okt. 2	167 25.7	1.68598	10.16	29	28 48.3	1.64898	8.16
4	188 49.4	1.68631	— 10.11	31	50 12.0	1.64742	— 8.15

DIONE.

α^h	L	M	$\log \frac{\alpha(p)}{p}$	$\frac{\alpha(p)}{p} \sin B$	α^h	L	M	$\log \frac{\alpha(p)}{p}$	$\frac{\alpha(p)}{p} \sin B$
Juli 8	76° 39.3	129.0	1.74105	-12.54	Okt. 4	131° 43.6	176.6	1.79379	-12.95
10	339 43.5	31.9	1.74257	12.61	6	34 47.8	79.5	1.79405	12.89
12	242 47.7	294.8	1.74410	12.67	8	297 52.0	342.4	1.79426	12.82
14	145 51.9	197.7	1.74564	12.74	10	200 56.2	245.3	1.79440	12.76
16	48 56.0	100.6	1.74719	-12.80	12	104 0.4	148.2	1.79447	-12.69
18	312 0.2	3.5	1.74874	12.86	14	7 4.6	51.1	1.79448	12.62
20	215 4.4	266.4	1.75029	12.92	16	270 8.7	314.0	1.79443	12.55
22	118 8.6	169.3	1.75184	12.98	18	173 12.9	216.9	1.79431	12.48
24	21 12.8	72.2	1.75340	-13.04	20	76 17.1	119.8	1.79412	-12.41
26	284 17.0	335.1	1.75495	13.10	22	339 21.3	22.7	1.79387	12.34
28	187 21.2	238.0	1.75650	13.15	24	242 25.4	285.6	1.79356	12.26
30	90 25.4	140.9	1.75805	13.20	26	145 29.6	188.5	1.79319	12.19
Aug. 1	353 29.6	43.8	1.75959	-13.24	28	48 33.8	91.4	1.79275	-12.11
3	256 33.8	306.7	1.76112	13.28	30	311 38.0	354.3	1.79226	12.04
5	159 38.0	209.6	1.76264	13.32	Nov. 1	214 42.2	257.2	1.79170	11.96
7	62 42.2	112.5	1.76415	13.36	3	117 46.4	160.1	1.79108	11.88
9	325 46.4	15.4	1.76564	-13.39	5	20 50.5	63.0	1.79041	-11.81
11	228 50.6	278.3	1.76712	13.42	7	283 54.7	325.9	1.78968	11.73
13	131 54.8	181.2	1.76858	13.45	9	186 58.9	228.8	1.78889	11.66
15	34 59.0	84.1	1.77002	13.47	11	90 3.1	131.7	1.78804	11.59
17	298 3.1	347.0	1.77144	-13.49	13	353 7.3	34.6	1.78715	-11.52
19	201 7.3	249.9	1.77283	13.51	15	256 11.5	297.5	1.78620	11.45
21	104 11.5	152.8	1.77420	13.52	17	159 15.6	200.4	1.78520	11.38
23	7 15.7	55.7	1.77554	13.53	19	62 19.8	103.3	1.78416	11.31
25	270 19.9	318.6	1.77685	-13.54	21	325 24.0	6.2	1.78307	-11.24
27	173 24.1	221.5	1.77812	13.54	23	228 28.2	269.1	1.78194	11.18
29	76 28.3	124.4	1.77936	13.54	25	131 32.3	172.0	1.78076	11.12
31	339 32.5	27.3	1.78057	13.54	27	34 36.5	74.9	1.77955	11.06
Sept. 2	242 36.6	290.2	1.78174	-13.53	29	297 40.7	337.8	1.77830	-11.00
4	145 40.8	193.1	1.78286	13.52	Dez. 1	200 44.9	240.7	1.77701	10.95
6	48 45.0	96.0	1.78395	13.50	3	103 49.0	143.6	1.77569	10.90
8	311 49.2	358.9	1.78499	13.48	5	6 53.2	46.5	1.77434	10.85
10	214 53.4	261.8	1.78599	-13.46	7	269 57.4	309.4	1.77296	-10.80
12	117 57.6	164.7	1.78694	13.44	9	173 1.6	212.3	1.77155	10.76
14	21 1.8	67.6	1.78784	13.41	11	76 5.7	115.2	1.77011	10.72
16	284 6.0	330.5	1.78869	13.38	13	339 9.9	18.1	1.76866	10.68
18	187 10.1	233.4	1.78948	-13.34	15	242 14.1	281.0	1.76718	-10.64
20	90 14.3	136.3	1.79022	13.30	17	145 18.3	183.9	1.76568	10.61
22	353 18.5	39.2	1.79091	13.26	19	48 22.4	86.8	1.76417	10.58
24	256 22.7	302.1	1.79154	13.22	21	311 26.6	349.7	1.76265	10.55
26	159 26.9	205.0	1.79211	-13.17	23	214 30.8	252.6	1.76112	-10.52
28	62 31.1	107.9	1.79262	13.12	25	117 35.0	155.5	1.75957	10.50
30	325 35.3	10.8	1.79307	13.07	27	20 39.1	58.4	1.75802	10.48
Okt. 2	228 39.5	273.7	1.79346	13.01	29	283 43.3	321.3	1.75646	10.46
4	131 43.6	176.6	1.79379	-12.95	31	186 47.5	224.2	1.75490	-10.44

DIONE.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0—	9.99913	360°	90°	+13.8—	0.00000	270°
2	0.5	9.99913	358	92	13.7	0.00003	268
4	1.0	9.99913	356	94	13.7	0.00006	266
6	1.4	9.99913	354	96	13.7	0.00009	264
8	1.9	9.99914	352	98	13.6	0.00012	262
10	+ 2.4—	9.99914	350	100	+13.5—	0.00015	260
12	2.9	9.99915	348	102	13.4	0.00018	258
14	3.3	9.99916	346	104	13.3	0.00021	256
16	3.8	9.99916	344	106	13.2	0.00024	254
18	4.3	9.99917	342	108	13.1	0.00027	252
20	+ 4.7—	9.99918	340	110	+12.9—	0.00030	250
22	5.2	9.99919	338	112	12.7	0.00033	248
24	5.6	9.99921	336	114	12.5	0.00035	246
26	6.0	9.99922	334	116	12.3	0.00038	244
28	6.5	9.99923	332	118	12.1	0.00041	242
30	+ 6.9—	9.99925	330	120	+11.9—	0.00044	240
32	7.3	9.99926	328	122	11.6	0.00046	238
34	7.7	9.99928	326	124	11.4	0.00049	236
36	8.1	9.99930	324	126	11.1	0.00051	234
38	8.5	9.99931	322	128	10.8	0.00053	232
40	+ 8.9—	9.99933	320	130	+10.5—	0.00056	230
42	9.2	9.99935	318	132	10.2	0.00058	228
44	9.6	9.99937	316	134	9.9	0.00060	226
46	9.9	9.99940	314	136	9.5	0.00062	224
48	10.2	9.99942	312	138	9.2	0.00065	222
50	+10.6—	9.99944	310	140	+ 8.8—	0.00067	220
52	10.9	9.99947	308	142	8.4	0.00068	218
54	11.1	9.99949	306	144	8.1	0.00070	216
56	11.4	9.99951	304	146	7.7	0.00072	214
58	11.7	9.99954	302	148	7.3	0.00074	212
60	+11.9—	9.99957	300	150	+ 6.9—	0.00075	210
62	12.2	9.99959	298	152	6.4	0.00077	208
64	12.4	9.99962	296	154	6.0	0.00078	206
66	12.6	9.99965	294	156	5.6	0.00079	204
68	12.8	9.99967	292	158	5.1	0.00080	202
70	+12.9—	9.99970	290	160	+ 4.7—	0.00081	200
72	13.1	9.99973	288	162	4.2	0.00082	198
74	13.2	9.99976	286	164	3.8	0.00083	196
76	13.3	9.99979	284	166	3.3	0.00084	194
78	13.4	9.99982	282	168	2.9	0.00085	192
80	+13.5—	9.99985	280	170	+ 2.4—	0.00085	190
82	13.6	9.99988	278	172	1.9	0.00086	188
84	13.7	9.99991	276	174	1.4	0.00086	186
86	13.7	9.99994	274	176	1.0	0.00086	184
88	13.7	9.99997	272	178	0.5	0.00087	182
90	+13.8—	0.00000	270	180	+ 0.0—	0.00087	180

RHEA.

	o ^b	L	M	log $\frac{a(p)}{p}$	$\frac{a(p)}{p} \sin B$		o ^b	L	M	log $\frac{a(p)}{p}$	$\frac{a(p)}{p} \sin B$
Juli	8	135° 31.6	111.5	1.88609	-17.51	Okt.	4	308° 14.8	281.8	1.93883	-18.09
	10	294 54.4	270.8	1.88761	17.61		6	107 37.6	81.1	1.93909	18.01
	12	94 17.2	70.1	1.88914	17.70		8	267 0.4	240.4	1.93930	17.92
	14	253 40.0	229.5	1.89068	17.79		10	66 23.2	39.8	1.93944	17.83
	16	53 2.8	28.8	1.89223	-17.88		12	225 46.0	199.1	1.93951	-17.73
	18	212 25.6	188.1	1.89378	17.97		14	25 8.8	358.4	1.93952	17.63
	20	11 48.4	347.4	1.89533	18.05		16	184 31.6	157.7	1.93947	17.53
	22	171 11.2	146.8	1.89688	18.13		18	343 54.4	317.1	1.93935	17.43
	24	330 34.0	306.1	1.89844	-18.21		20	143 17.2	116.4	1.93916	-17.33
	26	129 56.8	105.4	1.89999	18.28		22	302 40.0	275.7	1.93891	17.23
Aug.	28	289 19.6	264.7	1.90154	18.35	24	102 2.8	75.0	1.93860	17.12	
	30	88 42.4	64.1	1.90309	18.42	26	261 25.6	234.4	1.93823	17.02	
	1	248 5.2	223.4	1.90463	-18.48	28	60 48.4	33.7	1.93779	-16.91	
	3	47 28.0	22.7	1.90616	18.54	30	220 11.2	193.0	1.93730	16.80	
	5	206 50.8	182.0	1.90768	18.59	Nov.	1	19 34.0	352.3	1.93674	16.70
	7	6 13.6	341.4	1.90919	18.64		3	178 56.8	151.7	1.93612	16.59
	9	165 36.4	140.7	1.91068	-18.69		5	338 19.6	311.0	1.93545	-16.49
	11	324 59.2	300.0	1.91216	18.73		7	137 42.4	110.3	1.93472	16.38
	13	124 22.0	99.3	1.91362	18.77		9	297 5.2	269.6	1.93393	16.28
	15	283 44.8	258.7	1.91506	18.81		11	96 28.0	69.0	1.93308	16.18
17	83 7.6	58.0	1.91648	-18.84	13		255 50.8	228.3	1.93219	-16.08	
19	242 30.4	217.3	1.91787	18.86	15		55 13.6	27.6	1.93124	15.98	
21	41 53.2	16.6	1.91924	18.88	17		214 36.4	186.9	1.93024	15.89	
23	201 16.0	176.0	1.92058	18.90	19		13 59.2	346.3	1.92920	15.79	
Sept.	25	0 38.8	335.3	1.92189	-18.91	21	173 21.9	145.6	1.92811	-15.70	
	27	160 1.6	134.6	1.92316	18.91	23	332 44.7	304.9	1.92698	15.61	
	29	319 24.4	293.9	1.92440	18.91	25	132 7.5	104.2	1.92580	15.52	
	31	118 47.2	93.3	1.92561	18.91	27	291 30.3	263.6	1.92459	15.44	
	2	278 10.0	252.6	1.92678	-18.90	29	90 53.1	62.9	1.92334	-15.36	
	4	77 32.8	51.9	1.92790	18.88	Dez.	1	250 15.9	222.2	1.92205	15.28
	6	236 55.6	211.2	1.92899	18.86		3	49 38.7	21.5	1.92073	15.21
	8	36 18.4	10.6	1.93003	18.83		5	209 1.5	180.9	1.91938	15.14
	10	195 41.2	169.9	1.93103	-18.80		7	8 24.3	340.2	1.91800	-15.08
	12	355 4.0	329.2	1.93198	18.76		9	167 47.1	139.5	1.91659	15.02
14	154 26.8	128.5	1.93288	18.72	11		327 9.9	298.8	1.91515	14.96	
16	313 49.6	287.9	1.93373	18.68	13		126 32.7	98.2	1.91370	14.90	
18	113 12.4	87.2	1.93452	-18.63	15		285 55.5	257.5	1.91222	-14.85	
20	272 35.2	246.5	1.93526	18.58	17		85 18.3	56.8	1.91072	14.80	
22	71 58.0	45.8	1.93595	18.52	19		244 41.1	216.1	1.90921	14.76	
Okt.	24	231 20.8	205.2	1.93658	18.46	21	44 3.9	15.5	1.90769	14.72	
	26	30 43.6	4.5	1.93715	-18.39	23	203 26.6	174.8	1.90616	-14.69	
	28	190 6.4	163.8	1.93766	18.32	25	2 49.4	334.1	1.90461	14.66	
	30	349 29.2	323.1	1.93811	18.25	27	162 12.2	133.4	1.90306	14.63	
	2	148 52.0	122.5	1.93850	18.17	29	321 35.0	292.8	1.90150	14.60	
	4	308 14.8	281.8	1.93883	-18.09	31	120 57.8	92.1	1.89994	-14.58	

RHEA.

M	v - M	log $\frac{r}{a}$	M	M	v - M	log $\frac{r}{a}$	M
0	+0.0-	9.99961	360	90	+6.2-	0.00000	270
2	0.2	9.99961	358	92	6.2	0.00001	268
4	0.4	9.99961	356	94	6.2	0.00003	266
6	0.6	9.99961	354	96	6.2	0.00004	264
8	0.9	9.99961	352	98	6.1	0.00005	262
10	+1.1-	9.99961	350	100	+6.1-	0.00007	260
12	1.3	9.99962	348	102	6.1	0.00008	258
14	1.5	9.99962	346	104	6.0	0.00009	256
16	1.7	9.99962	344	106	5.9	0.00011	254
18	1.9	9.99963	342	108	5.9	0.00012	252
20	+2.1-	9.99963	340	110	+5.8-	0.00013	250
22	2.3	9.99964	338	112	5.7	0.00015	248
24	2.5	9.99964	336	114	5.7	0.00016	246
26	2.7	9.99965	334	116	5.6	0.00017	244
28	2.9	9.99966	332	118	5.5	0.00018	242
30	+3.1-	9.99966	330	120	+5.4-	0.00019	240
32	3.3	9.99967	328	122	5.2	0.00021	238
34	3.5	9.99968	326	124	5.1	0.00022	236
36	3.6	9.99968	324	126	5.0	0.00023	234
38	3.8	9.99969	322	128	4.9	0.00024	232
40	+4.0-	9.99970	320	130	+4.7-	0.00025	230
42	4.1	9.99971	318	132	4.6	0.00026	228
44	4.3	9.99972	316	134	4.5	0.00027	226
46	4.5	9.99973	314	136	4.3	0.00028	224
48	4.6	9.99974	312	138	4.1	0.00029	222
50	+4.7-	9.99975	310	140	+4.0-	0.00030	220
52	4.9	9.99976	308	142	3.8	0.00031	218
54	5.0	9.99977	306	144	3.6	0.00032	216
56	5.1	9.99978	304	146	3.5	0.00032	214
58	5.2	9.99979	302	148	3.3	0.00033	212
60	+5.4-	9.99980	300	150	+3.1-	0.00034	210
62	5.5	9.99982	298	152	2.9	0.00034	208
64	5.6	9.99983	296	154	2.7	0.00035	206
66	5.7	9.99984	294	156	2.5	0.00036	204
68	5.7	9.99985	292	158	2.3	0.00036	202
70	+5.8-	9.99987	290	160	+2.1-	0.00037	200
72	5.9	9.99988	288	162	1.9	0.00037	198
74	5.9	9.99989	286	164	1.7	0.00037	196
76	6.0	9.99991	284	166	1.5	0.00038	194
78	6.1	9.99992	282	168	1.3	0.00038	192
80	+6.1-	9.99993	280	170	+1.1-	0.00038	190
82	6.1	9.99995	278	172	0.9	0.00039	188
84	6.2	9.99996	276	174	0.6	0.00039	186
86	6.2	9.99997	274	176	0.4	0.00039	184
88	6.2	9.99999	272	178	0.2	0.00039	182
90	+6.2-	0.00000	270	180	+0.0-	0.00039	180

Bewegung der mittleren Länge *L*.

Zeit	Mimas	Enceladus	Tethys	Dione	Rhea
1 ^d	22° 0.1	262° 43.9	190° 41.8	131° 32.1	79° 41.4
1 ^h	15 55.0	10 56.8	7 56.7	5 28.8	3 19.2
2	31 50.0	21 53.7	15 53.5	10 57.7	6 38.4
3	47 45.0	32 50.5	23 50.2	16 26.5	9 57.7
4	63 40.0	43 47.3	31 47.0	21 55.3	13 16.9
5	79 35.0	54 44.1	39 43.7	27 24.2	16 36.1
6	95 30.0	65 41.0	47 40.4	32 53.0	19 55.3
7	111 25.0	76 37.8	55 37.2	38 21.9	23 14.6
8	127 20.0	87 34.6	63 33.9	43 50.7	26 33.8
9	143 15.0	98 31.5	71 30.7	49 19.5	29 53.0
10	159 10.0	109 28.3	79 27.4	54 48.4	33 12.2
11	175 5.0	120 25.1	87 24.2	60 17.2	36 31.5
12	191 0.0	131 21.9	95 20.9	65 46.0	39 50.7
13	206 55.1	142 18.8	103 17.6	71 14.9	43 9.9
14	222 50.1	153 15.6	111 14.4	76 43.7	46 29.1
15	238 45.1	164 12.4	119 11.1	82 12.6	49 48.4
16	254 40.1	175 9.3	127 7.9	87 41.4	53 7.6
17	270 35.1	186 6.1	135 4.6	93 10.2	56 26.8
18	286 30.1	197 2.9	143 1.3	98 39.1	59 46.0
19	302 25.1	207 59.8	150 58.1	104 7.9	63 5.3
20	318 20.1	218 56.6	158 54.8	109 36.7	66 24.5
21	334 15.1	229 53.4	166 51.6	115 5.6	69 43.7
22	350 10.1	240 50.2	174 48.3	120 34.4	73 2.9
23	6 5.1	251 47.1	182 45.1	126 3.3	76 22.2
1 ^m	0 15.9	0 10.9	0 7.9	0 5.5	0 3.3
2	0 31.8	0 21.9	0 15.9	0 11.0	0 6.6
3	0 47.8	0 32.8	0 23.8	0 16.4	0 10.0
4	1 3.7	0 43.8	0 31.8	0 21.9	0 13.3
5	1 19.6	0 54.7	0 39.7	0 27.4	0 16.6
6	1 35.5	1 5.7	0 47.6	0 32.9	0 19.9
7	1 51.4	1 16.6	0 55.6	0 38.4	0 23.2
8	2 7.4	1 27.6	1 3.5	0 43.8	0 26.6
9	2 23.3	1 38.5	1 11.5	0 49.3	0 29.9
10	2 39.2	1 49.5	1 19.4	0 54.8	0 33.2
20	5 18.3	3 38.9	2 38.9	1 49.6	1 6.4
30	7 57.5	5 28.4	3 58.3	2 44.4	1 39.6
40	10 36.7	7 17.9	5 17.8	3 39.2	2 12.8
50	13 15.8	9 7.3	6 37.2	4 34.0	2 46.0
10 ^o	0 2.6	0 1.8	0 1.3	0 0.9	0 0.5
20	0 5.3	0 3.6	0 2.6	0 1.8	0 1.1
30	0 7.9	0 5.4	0 3.9	0 2.7	0 1.6
40	0 10.6	0 7.3	0 5.3	0 3.7	0 2.2
50	0 13.2	0 9.1	0 6.6	0 4.6	0 2.7

Bewegung der mittleren Anomalie M.					$\log \frac{1}{1+z}$, in Einheiten der 5. Dezimale.						
Zeit	Mimas	Encel.	Dione	Rhea	u-U	Mimas	Encel.	Tethys	Dione	Rhea	u-U
^d 1	21.00	262.4	131.5	79.7	0	-6	-8	-10	-12	-17	360
^h 1					4	-6	-8	-10	-12	-17	356
1	15.87	10.9	5.5	3.3	8	-6	-8	-10	-12	-17	352
2	31.75	21.9	11.0	6.6	12	-5	-7	-9	-11	-16	348
3	47.62	32.8	16.4	10.0	16	-5	-7	-9	-11	-16	344
4	63.50	43.7	21.9	13.3	20	-5	-7	-9	-11	-16	340
5	79.37	54.7	27.4	16.6	24	-5	-7	-9	-11	-15	336
6	95.25	65.6	32.9	19.9	28	-5	-7	-8	-10	-15	332
7	111.12	76.5	38.4	23.2	32	-4	-6	-8	-10	-14	328
8	127.00	87.5	43.8	26.6	36	-4	-6	-7	-9	-14	324
9	142.87	98.4	49.3	29.9	40	-4	-6	-7	-9	-13	320
10	158.75	109.3	54.8	33.2	44	-4	-5	-6	-8	-12	316
11	174.62	120.3	60.3	36.5	48	-4	-5	-6	-8	-11	312
12	190.50	131.2	65.7	39.8	52	-3	-4	-5	-7	-11	308
13	206.37	142.1	71.2	43.2	56	-3	-4	-5	-7	-10	304
14	222.25	153.1	76.7	46.5	60	-3	-3	-4	-6	-9	300
15	238.12	164.0	82.2	49.8	64	-3	-3	-4	-5	-8	296
16	254.00	174.9	87.7	53.1	68	-2	-2	-3	-4	-7	292
17	269.87	185.9	93.1	56.5	72	-2	-2	-3	-3	-5	288
18	285.75	196.8	98.6	59.8	76	-1	-1	-2	-3	-4	284
19	301.62	207.7	104.1	63.1	80	-1	-1	-2	-2	-3	280
20	317.50	218.7	109.6	66.4	84	-1	-1	-1	-1	-2	276
21	333.37	229.6	115.1	69.7	88	0	0	0	0	-1	272
22	349.25	240.5	120.5	73.1	92	0	0	0	0	+1	268
23	5.12	251.5	126.0	76.4	96	+1	+1	+1	+1	+2	264
					100	+1	+1	+2	+2	+3	260
^m 1	0.26	0.2	0.1	0.0	104	+1	+1	+2	+3	+4	256
2	0.53	0.4	0.2	0.1	108	+2	+2	+3	+3	+5	252
3	0.79	0.5	0.3	0.1	112	+2	+2	+3	+4	+7	248
4	1.06	0.7	0.4	0.2	116	+3	+3	+4	+5	+8	244
5	1.32	0.9	0.4	0.2	120	+3	+3	+4	+6	+9	240
6	1.58	1.1	0.5	0.3	124	+3	+4	+5	+7	+10	236
7	1.85	1.3	0.6	0.3	128	+3	+4	+5	+7	+11	232
8	2.11	1.4	0.7	0.4	132	+4	+5	+6	+8	+11	228
9	2.38	1.6	0.8	0.4	136	+4	+5	+6	+8	+12	224
10	2.64	1.8	0.9	0.5	140	+4	+6	+7	+9	+13	220
20	5.29	3.6	1.8	1.1	144	+4	+6	+7	+9	+14	216
30	7.93	5.4	2.7	1.6	148	+4	+6	+8	+10	+14	212
40	10.58	7.3	3.7	2.2	152	+5	+7	+8	+10	+15	208
50	13.22	9.1	4.6	2.7	156	+5	+7	+9	+11	+15	204
					160	+5	+7	+9	+11	+16	200
10	0.04	0.0	0.0	0.0	164	+5	+7	+9	+11	+16	196
20	0.09	0.1	0.0	0.0	168	+5	+7	+9	+11	+16	192
30	0.13	0.1	0.0	0.0	172	+6	+8	+10	+12	+17	188
40	0.17	0.1	0.1	0.0	176	+6	+8	+10	+12	+17	184
50	0.22	0.2	0.1	0.0	180	+6	+8	+10	+12	+17	180

TITAN.

				TITAN.										
	o ^b	U	B	P		o ^b	U	B	P		o ^b	U	B	P
Juli	8	256° 12.7	-12° 49.8	+1° 33.5	Okt.	4	254° 23.9	-11° 42.4	+1° 45.3					
	10	256 18.0	12 51.5	1 32.9		6	254 15.2	11 38.6	1 46.2					
	12	256 23.0	12 53.0	1 32.4		8	254 6.4	11 34.7	1 47.2					
	14	256 27.6	12 54.3	1 31.9		10	253 57.6	11 30.8	1 48.1					
	16	256 31.8	-12 55.5	+1 31.4		12	253 48.7	-11 26.9	+1 49.1					
	18	256 35.6	12 56.5	1 31.0		14	253 39.8	11 23.0	1 50.1					
	20	256 39.1	12 57.4	1 30.6		16	253 30.9	11 19.1	1 51.1					
	22	256 42.2	12 58.1	1 30.3		18	253 22.0	11 15.3	1 52.1					
	24	256 44.9	-12 58.6	+1 30.0		20	253 13.2	-11 11.5	+1 53.0					
	26	256 47.2	12 59.0	1 29.7		22	253 4.4	11 7.8	1 54.0					
	28	256 49.2	12 59.2	1 29.5		24	252 55.7	11 4.1	1 54.9					
	30	256 50.8	12 59.3	1 29.3		26	252 47.1	11 0.5	1 55.8					
	Aug.	1	256 52.0	-12 59.2		+1 29.2	28	252 38.7	-10 56.9	+1 56.7				
		3	256 52.8	12 58.9		1 29.1	30	252 30.4	10 53.5	1 57.6				
5		256 53.2	12 58.5	1 29.1	Nov.	1	252 22.2	10 50.1	1 58.4					
7		256 53.2	12 57.9	1 29.1		3	252 14.2	10 46.8	1 59.3					
9		256 52.8	-12 57.1	+1 29.1		5	252 6.4	-10 43.6	+2 0.1					
11		256 52.0	12 56.2	1 29.2		7	251 58.8	10 40.5	2 0.9					
13		256 50.8	12 55.1	1 29.3		9	251 51.4	10 37.6	2 1.7					
15		256 49.2	12 53.9	1 29.5		11	251 44.2	10 34.8	2 2.5					
17		256 47.3	-12 52.5	+1 29.7		13	251 37.3	-10 32.1	+2 3.2					
19		256 44.9	12 50.9	1 30.0		15	251 30.7	10 29.6	2 3.9					
21		256 42.2	12 49.2	1 30.3		17	251 24.3	10 27.2	2 4.6					
23		256 39.1	12 47.4	1 30.6		19	251 18.2	10 24.9	2 5.3					
25		256 35.7	-12 45.4	+1 31.0		21	251 12.5	-10 22.8	+2 5.9					
27		256 31.9	12 43.3	1 31.4		23	251 7.1	10 20.8	2 6.5					
29	256 27.7	12 41.0	1 31.9	25		251 2.0	10 19.0	2 7.0						
31	256 23.2	12 38.6	1 32.4	27		250 57.3	10 17.4	2 7.5						
Sept.	2	256 18.3	-12 36.0	+1 32.9	29	250 52.9	-10 15.9	+2 8.0						
	4	256 13.1	12 33.3	1 33.4	Dez.	1	250 48.9	10 14.6	2 8.4					
	6	256 7.6	12 30.6	1 34.0		3	250 45.2	10 13.4	2 8.8					
	8	256 1.7	12 27.8	1 34.6		5	250 41.9	10 12.4	2 9.2					
	10	255 55.6	-12 24.8	+1 35.3		7	250 39.0	-10 11.7	+2 9.5					
	12	255 49.2	12 21.7	1 36.0		9	250 36.5	10 11.2	2 9.8					
	14	255 42.5	12 18.5	1 36.7		11	250 34.3	10 10.8	2 10.0					
	16	255 35.6	12 15.2	1 37.5		13	250 32.5	10 10.6	2 10.2					
	18	255 28.4	-12 11.8	+1 38.3		15	250 31.2	-10 10.6	+2 10.3					
	20	255 21.0	12 8.3	1 39.1		17	250 30.2	10 10.8	2 10.4					
	22	255 13.3	12 4.8	1 40.0		19	250 29.7	10 11.2	2 10.4					
	24	255 5.5	12 1.2	1 40.8		21	250 29.6	10 11.8	2 10.4					
	26	254 57.5	-11 57.5	+1 41.7		23	250 29.9	-10 12.5	+2 10.4					
	28	254 49.3	11 53.8	1 42.6		25	250 30.6	10 13.4	2 10.3					
30	254 41.0	11 50.0	1 43.5	27		250 31.7	10 14.5	2 10.2						
Okt.	2	254 32.5	11 46.2	1 44.4	29	250 33.2	10 15.8	2 10.1						
	4	254 23.9	-11 42.4	+1 45.3	31	250 35.1	-10 17.3	+2 9.9						

TITAN.

o ^b		$\alpha_{tr} - \alpha_{pt}$	$\delta_{tr} - \delta_{pt}$	o ^b		$\alpha_{tr} - \alpha_{pt}$	$\delta_{tr} - \delta_{pt}$	
Juli	8	-10.69	-0.95	+19.3	-15.2			
	9	-11.64	+0.99	+ 4.1	-16.1			
	10	-10.65	+2.75	-12.0	-14.1			
	11	- 7.90	+4.03	-26.1	-10.0			
	12	- 3.87	+4.65	-36.1	- 4.4			
	13	+ 0.78	+4.56	-40.5	+ 1.8			
	14	+ 5.34	+3.80	-38.7	+ 7.4			
	15	+ 9.14	+2.50	-31.3	+12.0			
	16	+11.64	+0.86	-19.3	+14.8			
	17	+12.50	-0.89	- 4.5	+15.6			
	18	+11.61	-2.55	+11.1	+14.0			
	19	+ 9.06	-3.87	+25.1	+10.4			
	20	+ 5.19	-4.66	+35.5	+ 5.2			
	21	+ 0.53	-4.76	+40.7	- 1.1			
	22	- 4.23	-4.09	+39.6	- 7.5			
	23	- 8.32	-2.75	+32.1	-12.7			
	24	-11.07	-0.91	+19.4	-15.9			
	25	-11.98	+1.09	+ 3.5	-16.7			
	26	-10.89	+2.88	-13.2	-14.5			
	27	- 8.01	+4.19	-27.7	-10.1			
	28	- 3.82	+4.81	-37.8	- 4.2			
29	+ 0.99	+4.67	-42.0	+ 2.2				
30	+ 5.66	+3.87	-39.8	+ 8.0				
31	+ 9.53	+2.51	-31.8	+12.6				
Aug.	1	+12.04	+0.82	-19.2	+15.4			
	2	+12.86	-0.99	- 3.8	+16.0			
	3	+11.87	-2.70	+12.2	+14.3			
	4	+ 9.17	-4.04	+26.5	+10.5			
	5	+ 5.13	-4.82	+37.0	+ 5.0			
	6	+ 0.31	-4.88	+42.0	- 1.6			
	7	- 4.57	-4.16	+40.4	- 7.9			
	8	- 8.73	-2.74	+32.5	-13.3			
	9	-11.47	-0.84	+19.2	-16.6			
	10	-12.31	+1.22	+ 2.6	-16.9			
	11	-11.09	+3.06	-14.3	-14.7			
	12	- 8.03	+4.36	-29.0	-10.0			
	13	- 3.67	+4.96	-39.0	- 3.9			
	14	+ 1.29	+4.78	-42.9	+ 2.5			
	15	+ 6.07	+3.91	-40.4	+ 8.5			
	16	+ 9.98	+2.49	-31.9	+13.1			
	17	+12.47	+0.74	-18.8	+15.8			
	18	+13.21	-1.14	- 3.0	+16.2			
	19	+12.07	-2.87	+13.2	+14.4			
	20	+ 9.20	-4.22	+27.6	+10.4			
	21	+ 4.98		+38.0				
Aug.	21	+ 4.98	-4.98	+38.0	+ 4.6			
	22	0.00	-5.00	+42.6	- 1.9			
	23	- 5.00	-4.20	+40.7	- 8.5			
	24	- 9.20	-2.69	+32.2	-13.7			
	25	-11.89	-0.71	+18.5	-16.8			
	26	-12.60	+1.39	+ 1.7	-17.1			
	27	-11.21	+3.25	-15.4	-14.6			
	28	- 7.96	+4.55	-30.0	- 9.7			
	29	- 3.41	+5.10	-39.7	- 3.5			
	30	+ 1.69	+4.86	-43.2	+ 2.9			
	31	+ 6.55	+3.92	-40.3	+ 8.9			
	Sept.	1	+10.47	+2.42	-31.4	+13.4		
		2	+12.89	+0.60	-18.0	+16.0		
		3	+13.49	-1.32	- 2.0	+16.2		
4		+12.17	-3.06	+14.2	+14.2			
5		+ 9.11	-4.41	+28.4	+10.0			
6		+ 4.70	-5.13	+38.4	+ 4.2			
7		- 0.43	-5.06	+42.6	- 2.4			
8		- 5.49	-4.19	+40.2	- 8.8			
9		- 9.68	-2.60	+31.4	-13.9			
10		-12.28	-0.54	+17.5	-16.9			
11		-12.82	+1.61	+ 0.6	-16.9			
12		-11.21	+3.46	-16.3	-14.2			
13		- 7.75	+4.72	-30.5	- 9.3			
14		- 3.03	+5.21	-39.8	- 3.0			
15	+ 2.18	+4.90	-42.8	+ 3.4				
16	+ 7.08	+3.87	-39.4	+ 9.1				
17	+10.95	+2.30	-30.3	+13.5				
18	+13.25	+0.42	-16.8	+15.8				
19	+13.67	-1.52	- 1.0	+16.0				
20	+12.15	-3.27	+15.0	+13.7				
21	+ 8.88	-4.58	+28.7	+ 9.5				
22	+ 4.30	-5.23	+38.2	+ 3.7				
23	- 0.93	-5.09	+41.9	- 2.8				
24	- 6.02	-4.12	+39.1	- 9.0				
25	-10.14	-2.44	+30.1	-14.0				
26	-12.58	-0.33	+16.1	-16.6				
27	-12.91	+1.83	- 0.5	-16.4				
28	-11.08	+3.66	-16.9	-13.6				
29	- 7.42	+4.87	-30.5	- 8.6				
30	- 2.55	+5.28	-39.1	- 2.6				
Okt.	1	+ 2.73	+4.87	-41.7	+ 3.7			
	2	+ 7.60	+3.77	-38.0	+ 9.3			
	3	+11.37	+2.13	-28.7	+13.3			
	4	+13.50		-15.4				

TITAN.

O ^h		$\alpha_{er} - \alpha_{pl}$		$\delta_{er} - \delta_{pl}$		O ^h		$\alpha_{er} - \alpha_{pl}$		$\delta_{er} - \delta_{pl}$		
Okt.	4	+13.50	+0.22	-15.4	+15.5	Nov.	17	-0.92	+5.13	-35.1	-1.2	
	5	+13.72	-1.74	+0.1	+15.4		18	+4.21	+4.49	-36.3	+4.2	
	6	+11.98	-3.46	+15.5	+13.1		19	+8.70	+3.21	-32.1	+8.8	
	7	+8.52	-4.72	+28.6	+8.8		20	+11.91	+1.50	-23.3	+12.1	
	8	+3.80	-5.29	+37.4	+3.2		21	+13.41	-0.40	-11.2	+13.7	
	9	-1.49	-5.05	+40.6	-3.1		22	+13.01	-2.24	+2.5	+13.2	
	10	-6.54	-3.99	+37.5	-9.1		23	+10.77	-3.79	+15.7	+10.9	
	11	-10.53	-2.25	+28.4	-13.8		24	+6.98	-4.80	+26.6	+7.0	
	12	-12.78	-0.10	+14.6	-16.1		25	+2.18	-5.12	+33.6	+1.8	
	13	-12.88	+2.06	-1.5	-15.7		26	-2.94	-4.64	+35.4	-3.7	
	14	-10.82	+3.85	-17.2	-12.8		27	-7.58	-3.39	+31.7	-8.8	
	15	-6.97	+4.97	-30.0	-8.0		28	-10.97	-1.56	+22.9	-12.5	
	16	-2.00	+5.28	-38.0	-2.1		29	-12.53	+0.53	+10.4	-14.1	
	17	+3.28	+4.80	-40.1	+4.0		30	-12.00	+2.53	-3.7	-13.5	
	18	+8.08	+3.61	-36.1	+9.2		Dez.	1	-9.47	+4.07	-17.2	-10.6
	19	+11.69	+1.93	-26.9	+13.0			2	-5.40	+4.93	-27.8	-6.1
	20	+13.62	-0.01	-13.9	+14.9			3	-0.47	+4.98	-33.9	-0.9
	21	+13.61	-1.94	+1.0	+14.7			4	+4.51	+4.30	-34.8	+4.3
	22	+11.67	-3.62	+15.7	+12.3			5	+8.81	+3.01	-30.5	+8.7
	23	+8.05	-4.80	+28.0	+8.2			6	+11.82	+1.32	-21.8	+11.8
	24	+3.25	-5.29	+36.2	+2.7			7	+13.14	-0.54	-10.0	+13.1
	25	-2.04	-4.96	+38.9	-3.4			8	+12.60	-2.32	+3.1	+12.7
	26	-7.00	-3.81	+35.5	-9.1			9	+10.28	-3.80	+15.8	+10.3
	27	-10.81	-2.02	+26.4	-13.3			10	+6.48	-4.73	+26.1	+6.5
	28	-12.83	+0.14	+13.1	-15.4			11	+1.75	-4.98	+32.6	+1.5
	29	-12.69	+2.26	-2.3	-15.0		12	-3.23	-4.45	+34.1	-3.8	
	30	-10.43	+3.98	-17.3	-12.0		13	-7.68	-3.19	+30.3	-8.7	
	31	-6.45	+5.01	-29.3	-7.3		14	-10.87	-1.38	+21.6	-12.3	
	Nov.	1	-1.44	+5.23	-36.6		-1.6	15	-12.25	+0.67	+9.3	-13.7
		2	+3.79	+4.66	-38.2		+4.1	16	-11.58	+2.58	-4.4	-12.9
		3	+8.45	+3.42	-34.1		+9.1	17	-9.00	+4.04	-17.3	-10.1
4		+11.87	+1.71	-25.0	+12.5	18	-4.96	+4.82	-27.4	-5.7		
5		+13.58	-0.21	-12.5	+14.3	19	-0.14	+4.83	-33.1	-0.6		
6		+13.37	-2.12	+1.8	+13.9	20	+4.69	+4.12	-33.7	+4.4		
7		+11.25	-3.73	+15.7	+11.6	21	+8.81	+2.83	-29.3	+8.7		
8		+7.52	-4.83	+27.3	+7.5	22	+11.64	+1.17	-20.6	+11.6		
9		+2.69	-5.23	+34.8	+2.3	23	+12.81	-0.64	-9.0	+12.8		
10		-2.54	-4.81	+37.1	-3.6	24	+12.17	-2.35	+3.8	+12.3		
11		-7.35	-3.61	+33.5	-8.9	25	+9.82	-3.76	+16.1	+9.9		
12		-10.96	-1.78	+24.6	-12.9	26	+6.06	-4.63	+26.0	+6.1		
13		-12.74	+0.35	+11.7	-14.8	27	+1.43	-4.83	+32.1	+1.2		
14		-12.39	+2.43	-3.1	-14.1	28	-3.40	-4.27	+33.3	-4.0		
15		-9.96	+4.05	-17.2	-11.3	29	-7.67	-3.01	+29.3	-8.8		
16		-5.91	+4.99	-28.5	-6.6	30	-10.68	-1.25	+20.5	-12.1		
17		-0.92		-35.1		31	-11.93		+8.4			

HYPERION.

o ^b	U	B	P	o ^b	U	B	P		
Juli	8	252 15.5	-12 17.9	+1 51.7	Okt.	4	250 25.2	-11 10.3	+2 2.7
	10	252 20.7	-12 19.6	1 51.2		6	250 16.5	11 6.4	2 3.5
	12	252 25.6	-12 21.2	1 50.7		8	250 7.7	11 2.5	2 4.4
	14	252 30.1	12 22.6	1 50.2		10	249 58.9	10 58.6	2 5.3
	16	252 34.3	-12 23.8	+1 49.8		12	249 50.0	-10 54.7	+2 6.2
	18	252 38.1	12 24.8	1 49.4		14	249 41.1	10 50.8	2 7.1
	20	252 41.5	12 25.7	1 49.1		16	249 32.2	10 46.9	2 8.0
	22	252 44.6	-12 26.4	1 48.8		18	249 23.3	10 43.0	2 8.9
	24	252 47.3	-12 27.0	+1 48.5		20	249 14.5	-10 39.1	+2 9.7
	26	252 49.6	12 27.4	1 48.3		22	249 5.8	10 35.3	2 10.6
	28	252 51.5	12 27.6	1 48.1		24	248 57.1	10 31.6	2 11.4
	30	252 53.0	12 27.7	1 47.9		26	248 48.5	10 27.9	2 12.3
Aug.	1	252 54.1	-12 27.6	+1 47.8	28	248 40.0	-10 24.3	+2 13.1	
	3	252 54.8	12 27.3	1 47.7	30	248 31.7	10 20.8	2 13.9	
	5	252 55.2	12 26.9	1 47.7	Nov.	1	248 23.5	10 17.4	2 14.7
	7	252 55.1	12 26.3	1 47.7		3	248 15.5	10 14.1	2 15.5
	9	252 54.7	-12 25.6	+1 47.7		5	248 7.6	-10 10.9	+2 16.3
	11	252 53.9	12 24.7	1 47.8		7	248 0.0	10 7.8	2 17.0
	13	252 52.7	12 23.6	1 47.9		9	247 52.6	10 4.8	2 17.7
	15	252 51.1	12 22.3	1 48.1		11	247 45.4	10 1.9	2 18.4
	17	252 49.1	-12 20.9	+1 48.3		13	247 38.5	-9 59.2	+2 19.1
	19	252 46.7	12 19.3	1 48.5		15	247 31.9	9 56.6	2 19.7
	21	252 44.0	12 17.6	1 48.8		17	247 25.5	9 54.2	2 20.3
	23	252 40.9	12 15.8	1 49.1		19	247 19.4	9 51.9	2 20.9
25	252 37.4	-12 13.8	+1 49.5	21		247 13.6	-9 49.8	+2 21.5	
27	252 33.5	12 11.7	1 49.9	23		247 8.1	9 47.8	2 22.1	
29	252 29.3	12 9.4	1 50.3	25	247 3.0	9 46.0	2 22.6		
31	252 24.8	12 7.0	1 50.8	27	246 58.2	9 44.4	2 23.1		
Sept.	2	252 19.9	-12 4.5	+1 51.3	29	246 53.8	-9 42.9	+2 23.5	
	4	252 14.7	12 1.8	1 51.8	Dez.	1	246 49.7	9 41.6	2 23.9
	6	252 9.2	11 59.0	1 52.4		3	246 46.0	9 40.5	2 24.3
	8	252 3.3	11 56.1	1 53.0		5	246 42.7	9 39.6	2 24.6
	10	251 57.2	-11 53.1	+1 53.6		7	246 39.7	-9 38.8	+2 24.9
	12	251 50.8	11 50.0	1 54.2		9	246 37.2	9 38.2	2 25.1
	14	251 44.1	11 46.7	1 54.9		11	246 35.0	9 37.8	2 25.3
	16	251 37.1	11 43.4	1 55.6		13	246 33.2	9 37.6	2 25.5
	18	251 29.9	-11 40.0	+1 56.3		15	246 31.8	-9 37.6	+2 25.6
	20	251 22.5	11 36.5	1 57.0		17	246 30.8	9 37.8	2 25.7
	22	251 14.8	11 32.9	1 57.8		19	246 30.2	9 38.1	2 25.7
	24	251 6.9	11 29.3	1 58.6		21	246 30.0	9 38.7	2 25.7
26	250 58.9	-11 25.6	+1 59.4	23		246 30.3	-9 39.4	+2 25.7	
28	250 50.7	11 21.8	2 0.2	25	246 30.9	9 40.3	2 25.7		
30	250 42.3	11 18.0	2 1.0	27	246 32.0	9 41.4	2 25.6		
Okt.	2	250 33.8	11 14.2	2 1.8	29	246 33.5	9 42.7	2 25.5	
	4	250 25.2	-11 10.3	+2 2.7	31	246 35.3	-9 44.2	+2 25.3	

TITAN.

O ^b		$\alpha_{er} - \alpha_{pt}$	$\delta_{er} - \delta_{pt}$	O ^b		$\alpha_{er} - \alpha_{pt}$	$\delta_{er} - \delta_{pt}$					
Okt.	4	+13.50	+0.22	-15.4	+15.5	Nov.	17	-0.92	+5.13	-35.1	-1.2	
	5	+13.72	-1.74	+0.1	+15.4		18	+4.21	+4.49	-36.3	+4.2	
	6	+11.98	-3.46	+15.5	+13.1		19	+8.70	+3.21	-32.1	+8.8	
	7	+8.52	-4.72	+28.6	+8.8		20	+11.91	+1.50	-23.3	+12.1	
	8	+3.80	-5.29	+37.4	+3.2		21	+13.41	-0.46	-11.2	+13.7	
	9	-1.49	-5.05	+40.6	-3.1		22	+13.01	-2.24	+2.5	+13.2	
	10	-6.54	-3.99	+37.5	-9.1		23	+10.77	-3.79	+15.7	+10.9	
	11	-10.53	-2.25	+28.4	-13.8		24	+6.98	-4.80	+26.6	+7.0	
	12	-12.78	-0.10	+14.6	-16.1		25	+2.18	-5.12	+33.6	+1.8	
	13	-12.88	+2.06	-1.5	-15.7		26	-2.94	-4.64	+35.4	-3.7	
	14	-10.82	+3.85	-17.2	-12.8		27	-7.58	-3.39	+31.7	-8.8	
	15	-6.97	+4.97	-30.0	-8.0		28	-10.97	-1.56	+22.9	-12.5	
	16	-2.00	+5.28	-38.0	-2.1		29	-12.53	+0.53	+10.4	-14.1	
	17	+3.28	+4.80	-40.1	+4.0		30	-12.00	+2.53	-3.7	-13.5	
	18	+8.08	+3.61	-36.1	+9.2		Dez.	1	-9.47	+4.07	-17.2	-10.6
	19	+11.69	+1.93	-26.9	+13.0			2	-5.40	+4.93	-27.8	-6.1
	20	+13.62	-0.01	-13.9	+14.9			3	-0.47	+4.98	-33.9	-0.9
	21	+13.61	-1.94	+1.0	+14.7			4	+4.51	+4.30	-34.8	+4.3
	22	+11.67	-3.62	+15.7	+12.3			5	+8.81	+3.01	-30.5	+8.7
	23	+8.05	-4.80	+28.0	+8.2			6	+11.82	+1.32	-21.8	+11.8
	24	+3.25	-5.29	+36.2	+2.7			7	+13.14	-0.54	-10.0	+13.1
	25	-2.04	-4.96	+38.9	-3.4			8	+12.60	-2.32	+3.1	+12.7
	26	-7.00	-3.81	+35.5	-9.1			9	+10.28	-3.80	+15.8	+10.3
	27	-10.81	-2.02	+26.4	-13.3			10	+6.48	-4.73	+26.1	+6.5
	28	-12.83	+0.14	+13.1	-15.4		11	+1.75	-4.98	+32.6	+1.5	
	29	-12.69	+2.26	-2.3	-15.0		12	-3.23	-4.45	+34.1	-3.8	
	30	-10.43	+3.98	-17.3	-12.0		13	-7.68	-3.19	+30.3	-8.7	
	31	-6.45	+5.01	-29.3	-7.3		14	-10.87	-1.38	+21.6	-12.3	
	Nov.	1	-1.44	+5.23	-36.6		-1.6	15	-12.25	+0.67	+9.3	-13.7
		2	+3.79	+4.66	-38.2		+4.1	16	-11.58	+2.58	-4.4	-12.9
		3	+8.45	+3.42	-34.1		+9.1	17	-9.00	+4.04	-17.3	-10.1
4		+11.87	+1.71	-25.0	+12.5	18	-4.96	+4.82	-27.4	-5.7		
5		+13.58	-0.21	-12.5	+14.3	19	-0.14	+4.83	-33.1	-0.6		
6		+13.37	-2.12	+1.8	+13.9	20	+4.69	+4.12	-33.7	+4.4		
7		+11.25	-3.73	+15.7	+11.6	21	+8.81	+2.83	-29.3	+8.7		
8		+7.52	-4.83	+27.3	+7.5	22	+11.64	+1.17	-20.6	+11.6		
9		+2.69	-5.23	+34.8	+2.3	23	+12.81	-0.64	-9.0	+12.8		
10		-2.54	-4.81	+37.1	-3.6	24	+12.17	-2.35	+3.8	+12.3		
11		-7.35	-3.61	+33.5	-8.9	25	+9.82	-3.76	+16.1	+9.9		
12		-10.96	-1.78	+24.6	-12.9	26	+6.06	-4.63	+26.0	+6.1		
13		-12.74	+0.35	+11.7	-14.8	27	+1.43	-4.83	+32.1	+1.2		
14		-12.39	+2.43	-3.1	-14.1	28	-3.40	-4.27	+33.3	-4.0		
15		-9.96	+4.05	-17.2	-11.3	29	-7.67	-3.01	+29.3	-8.8		
16		-5.91	+4.99	-28.5	-6.6	30	-10.68	-1.25	+20.5	-12.1		
17		-0.92		-35.1		31	-11.93		+8.4			

HYPERION.

o ^h	U	B	P	o ^h	U	B	P
Juli 8	252° 15.5	-12° 17.9	+1° 51.7	Okt. 4	250° 25.2	-11° 10.3	+2° 2.7
10	252 20.7	-12 19.6	1 51.2	6	250 16.5	11 6.4	2 3.5
12	252 25.6	-12 21.2	1 50.7	8	250 7.7	11 2.5	2 4.4
14	252 30.1	-12 22.6	1 50.2	10	249 58.9	10 58.6	2 5.3
16	252 34.3	-12 23.8	+1 49.8	12	249 50.0	-10 54.7	+2 6.2
18	252 38.1	-12 24.8	1 49.4	14	249 41.1	10 50.8	2 7.1
20	252 41.5	-12 25.7	1 49.1	16	249 32.2	10 46.9	2 8.0
22	252 44.6	-12 26.4	1 48.8	18	249 23.3	10 43.0	2 8.9
24	252 47.3	-12 27.0	+1 48.5	20	249 14.5	-10 39.1	+2 9.7
26	252 49.6	-12 27.4	1 48.3	22	249 5.8	10 35.3	2 10.6
28	252 51.5	-12 27.6	1 48.1	24	248 57.1	10 31.6	2 11.4
30	252 53.0	-12 27.7	1 47.9	26	248 48.5	10 27.9	2 12.3
Aug. 1	252 54.1	-12 27.6	+1 47.8	28	248 40.0	-10 24.3	+2 13.1
3	252 54.8	-12 27.3	1 47.7	30	248 31.7	10 20.8	2 13.9
5	252 55.2	-12 26.9	1 47.7	Nov. 1	248 23.5	10 17.4	2 14.7
7	252 55.1	-12 26.3	1 47.7	3	248 15.5	10 14.1	2 15.5
9	252 54.7	-12 25.6	+1 47.7	5	248 7.6	-10 10.9	+2 16.3
11	252 53.9	-12 24.7	1 47.8	7	248 0.0	10 7.8	2 17.0
13	252 52.7	-12 23.6	1 47.9	9	247 52.6	10 4.8	2 17.7
15	252 51.1	-12 22.3	1 48.1	11	247 45.4	10 1.9	2 18.4
17	252 49.1	-12 20.9	+1 48.3	13	247 38.5	-9 59.2	+2 19.1
19	252 46.7	-12 19.3	1 48.5	15	247 31.9	9 56.6	2 19.7
21	252 44.0	-12 17.6	1 48.8	17	247 25.5	9 54.2	2 20.3
23	252 40.9	-12 15.8	1 49.1	19	247 19.4	9 51.9	2 20.9
25	252 37.4	-12 13.8	+1 49.5	21	247 13.6	-9 49.8	+2 21.5
27	252 33.5	-12 11.7	1 49.9	23	247 8.1	9 47.8	2 22.1
29	252 29.3	-12 9.4	1 50.3	25	247 3.0	9 46.0	2 22.6
31	252 24.8	-12 7.0	1 50.8	27	246 58.2	9 44.4	2 23.1
Sept. 2	252 19.9	-12 4.5	+1 51.3	29	246 53.8	-9 42.9	+2 23.5
4	252 14.7	-12 1.8	1 51.8	Dez. 1	246 49.7	9 41.6	2 23.9
6	252 9.2	-11 59.0	1 52.4	3	246 46.0	9 40.5	2 24.3
8	252 3.3	-11 56.1	1 53.0	5	246 42.7	9 39.6	2 24.6
10	251 57.2	-11 53.1	+1 53.6	7	246 39.7	-9 38.8	+2 24.9
12	251 50.8	-11 50.0	1 54.2	9	246 37.2	9 38.2	2 25.1
14	251 44.1	-11 46.7	1 54.9	11	246 35.0	9 37.8	2 25.3
16	251 37.1	-11 43.4	1 55.6	13	246 33.2	9 37.6	2 25.5
18	251 29.9	-11 40.0	+1 56.3	15	246 31.8	-9 37.6	+2 25.6
20	251 22.5	-11 36.5	1 57.0	17	246 30.8	9 37.8	2 25.7
22	251 14.8	-11 32.9	1 57.8	19	246 30.2	9 38.1	2 25.7
24	251 6.9	-11 29.3	1 58.6	21	246 30.0	9 38.7	2 25.7
26	250 58.9	-11 25.6	+1 59.4	23	246 30.3	-9 39.4	+2 25.7
28	250 50.7	-11 21.8	2 0.2	25	246 30.9	9 40.3	2 25.7
30	250 42.3	-11 18.0	2 1.0	27	246 32.0	9 41.4	2 25.6
Okt. 2	250 33.8	-11 14.2	2 1.8	29	246 33.5	9 42.7	2 25.5
4	250 25.2	-11 10.3	+2 2.7	31	246 35.3	-9 44.2	+2 25.3

HYPERION.

o ^b		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	o ^b		$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	
Juli	8	-12.40	+1.88	-9.5	-14.1			
	9	-10.52	+2.95	-23.6	-11.8			
	10	-7.57	+3.64	-35.4	-8.7			
	11	-3.93	+3.97	-44.1	-5.1			
	12	+0.04	+3.99	-49.2	-1.6			
	13	+4.03	+3.73	-50.8	+1.8			
	14	+7.76	+3.25	-49.0	+5.0			
	15	+11.01	+2.59	-44.0	+7.7			
	16	+13.60	+1.78	-36.3	+10.0			
	17	+15.38	+0.84	-26.3	+11.7			
	18	+16.22	-0.19	-14.6	+12.7			
	19	+16.03	-1.26	-1.9	+12.8			
	20	+14.77	-2.33	+10.9	+12.1			
	21	+12.44	-3.33	+23.0	+10.3			
	22	+9.11	-4.13	+33.3	+7.5			
	23	+4.98	-4.63	+40.8	+3.4			
	24	+0.35	-4.68	+44.2	-1.4			
	25	-4.33	-4.18	+42.8	-6.6			
	26	-8.51	-3.11	+36.2	-11.1			
	27	-11.62	-1.64	+25.1	-14.3			
	28	-13.26	-0.01	+10.8	-15.8			
	29	-13.27	+1.50	-5.0	-15.3			
	30	-11.77	+2.72	-20.3	-13.2			
	31	-9.05	+3.58	-33.5	-10.1			
	Aug.	1	-5.47	+4.05	-43.6	-6.6		
		2	-1.42	+4.17	-50.2	-2.8		
		3	+2.75	+4.00	-53.0	+0.8		
		4	+6.75	+3.58	-52.2	+4.3		
		5	+10.33	+2.95	-47.9	+7.2		
		6	+13.28	+2.14	-40.7	+9.8		
		7	+15.42	+1.20	-30.9	+11.7		
8		+16.62	+0.16	-19.2	+13.0			
9		+16.78	-0.97	-6.2	+13.4			
10		+15.81	-2.09	+7.2	+12.9			
11		+13.72	-3.16	+20.1	+11.4			
12		+10.56	-4.09	+31.5	+8.7			
13		+6.47	-4.72	+40.2	+4.8			
14		+1.75	-4.91	+45.0	0.0			
15		-3.16	-4.55	+45.0	-5.3			
16		-7.71	-3.59	+39.7	-10.3			
17		-11.30	-2.16	+29.4	-14.0			
18		-13.46	-0.48	+15.4	-15.8			
19		-13.94	+1.14	-0.4	-16.0			
20		-12.80	+2.51	-16.4	-14.3			
21		-10.29		-30.7				
Aug.		21	-10.29	+3.51	-30.7	-11.3		
		22	-6.78	+4.10	-42.0	-7.7		
		23	-2.68	+4.33	-49.7	-3.9		
		24	+1.65	+4.22	-53.6	-0.2		
		25	+5.87	+3.85	-53.8	+3.5		
		26	+9.72	+3.25	-50.3	+6.6		
		27	+12.97	+2.45	-43.7	+9.3		
		28	+15.42	+1.51	-34.4	+11.5		
		29	+16.93	+0.44	-22.9	+12.9		
		30	+17.37	-0.72	-10.0	+13.6		
	31	+16.65	-1.89	+3.6	+13.3			
	Sept.	1	+14.76	-3.03	+16.9	+12.0		
		2	+11.73	-4.03	+28.9	+9.5		
		3	+7.70	-4.76	+38.4	+5.9		
4		+2.94	-5.08	+44.3	+1.3			
5		-2.14	-4.83	+45.6	-4.0			
6		-6.97	-3.97	+41.6	-9.2			
7		-10.94	-2.57	+32.4	-13.2			
8		-13.51	-0.88	+19.2	-15.6			
9		-14.39	+0.83	+3.6	-16.0			
10		-13.56	+2.31	-12.4	-14.7			
11		-11.25	+3.43	-27.1	-12.0			
12		-7.82	+4.13	-39.1	-8.6			
13		-3.69	+4.44	-47.7	-4.8			
14		+0.75	+4.39	-52.5	-1.0			
15	+5.14	+4.06	-53.5	+2.6				
16	+9.20	+3.47	-50.9	+5.9				
17	+12.67	+2.69	-45.0	+8.6				
18	+15.36	+1.74	-36.4	+10.9				
19	+17.10	+0.65	-25.5	+12.5				
20	+17.75	-0.52	-13.0	+13.3				
21	+17.23	-1.73	+0.3	+13.2				
22	+15.50	-2.91	+13.5	+12.1				
23	+12.59	-3.96	+25.6	+10.0				
24	+8.63	-4.76	+35.6	+6.7				
25	+3.87	-5.16	+42.3	+2.2				
26	-1.29	-5.01	+44.5	-2.8				
27	-6.30	-4.23	+41.7	-7.8				
28	-10.53	-2.89	+33.9	-12.1				
29	-13.42	-1.19	+21.8	-14.8				
30	-14.61	+0.58	+7.0	-15.5				
Okt.	1	-14.03	+2.13	-8.5	-14.6			
	2	-11.90	+3.34	-23.1	-12.3			
	3	-8.56	+4.12	-35.4	-9.0			
	4	-4.44		-44.4				

HYPERION.

O ^b		$\alpha_{tr} - \alpha_{pt}$		$\delta_{tr} - \delta_{pt}$		O ^b		$\alpha_{tr} - \alpha_{pt}$		$\delta_{tr} - \delta_{pt}$		
Okt.	4	- 4.44	+4.48	-44.4	- 5.4	Nov.	17	+ 3.36	+4.19	-45.2	+ 0.3	
	5	+ 0.04	+4.49	-49.8	- 1.7		18	+ 7.55	+3.68	-44.9	+ 3.3	
	6	+ 4.53	+4.18	-51.5	+ 1.8		19	+11.23	+2.95	-41.6	+ 5.9	
	7	+ 8.71	+3.62	-49.7	+ 5.0		20	+14.18	+2.05	-35.7	+ 8.1	
	8	+12.33	+2.84	-44.7	+ 7.8		21	+16.23	+1.02	-27.6	+ 9.8	
	9	+15.17	+1.89	-36.9	+10.0		22	+17.25	-0.11	-17.8	+10.9	
	10	+17.06	+0.81	-26.9	+11.7		23	+17.14	-1.28	- 6.9	+11.3	
	11	+17.87	-0.37	-15.2	+12.6		24	+15.86	-2.45	+ 4.4	+11.0	
	12	+17.50	-1.59	- 2.6	+12.7		25	+13.41	-3.50	+15.4	+ 9.6	
	13	+15.91	-2.78	+10.1	+11.9		26	+ 9.91	-4.37	+25.0	+ 7.4	
	14	+13.13	-3.87	+22.0	+10.1		27	+ 5.54	-4.89	+32.4	+ 4.2	
	15	+ 9.26	-4.70	+32.1	+ 7.0		28	+ 0.65	-4.94	+36.6	+ 0.2	
	16	+ 4.56	-5.15	+39.1	+ 3.1		29	- 4.29	-4.41	+36.8	- 4.2	
	17	- 0.59	-5.08	+42.2	- 1.6		30	- 8.70	-3.30	+32.6	- 8.1	
	18	- 5.67	-4.37	+40.6	- 6.5		Dez.	1	-12.00	-1.77	+24.5	-11.2
	19	-10.04	-3.09	+34.1	-10.8			2	-13.77	-0.08	+13.3	-12.8
	20	-13.13	-1.43	+23.3	-13.6			3	-13.85	+1.52	+ 0.5	-12.8
	21	-14.56	+0.35	+ 9.7	-14.7			4	-12.33	+2.80	-12.3	-11.4
	22	-14.21	+1.96	- 5.0	-14.1			5	- 9.53	+3.70	-23.7	- 9.2
	23	-12.25	+3.21	-19.1	-12.0			6	- 5.83	+4.19	-32.9	- 6.4
	24	- 9.04	+4.05	-31.1	- 9.2			7	+ 1.64	+4.30	-39.3	- 3.3
	25	- 4.99	+4.46	-40.3	- 5.8			8	+ 2.66	+4.10	-42.6	- 0.3
	26	- 0.53	+4.50	-46.1	- 2.4			9	+ 6.76	+3.64	-42.9	+ 2.6
	27	+ 3.97	+4.22	-48.5	+ 1.1			10	+10.40	+2.97	-40.3	+ 5.1
	28	+ 8.19	+3.68	-47.4	+ 4.1			11	+13.37	+2.11	-35.2	+ 7.3
	29	+11.87	+2.92	-43.3	+ 6.8		12	+15.48	+1.12	-27.9	+ 9.1	
	30	+14.79	+1.99	-36.5	+ 9.1		13	+16.60	+0.05	-18.8	+10.3	
	31	+16.78	+0.91	-27.4	+10.7		14	+16.65	-1.08	- 8.5	+10.8	
	Nov.	1	+17.69	-0.24	-16.7		+11.7	15	+15.57	-2.21	+ 2.3	+10.6
		2	+17.45	-1.45	- 5.0		+12.1	16	+13.36	-3.25	+12.9	+ 9.5
		3	+16.00	-2.64	+ 7.1		+11.4	17	+10.11	-4.11	+22.4	+ 7.6
4		+13.36	-3.71	+18.5	+ 9.8	18	+ 6.00	-4.68	+30.0	+ 4.6		
5		+ 9.65	-4.56	+28.3	+ 7.3	19	+ 1.32	-4.79	+34.6	+ 0.9		
6		+ 5.09	-5.06	+35.6	+ 3.7	20	- 3.47	-4.36	+35.5	- 3.3		
7		+ 0.03	-5.05	+39.3	- 0.7	21	- 7.83	-3.37	+32.2	- 7.2		
8		- 5.02	-4.42	+38.6	- 5.2	22	-11.20	-1.95	+25.0	-10.3		
9		- 9.44	-3.22	+33.4	- 9.3	23	-13.15	-0.33	+14.7	-12.1		
10		-12.66	-1.61	+24.1	-12.4	24	-13.48	+1.24	+ 2.6	-12.4		
11		-14.27	+0.14	+11.7	-13.7	25	-12.24	+2.52	- 9.8	-11.4		
12		-14.13	+1.76	- 2.0	-13.3	26	- 9.72	+3.44	-21.2	- 9.4		
13		-12.37	+3.04	-15.3	-11.8	27	- 6.28	+3.97	-30.6	- 6.7		
14		- 9.33	+3.91	-27.1	- 9.2	28	- 2.31	+4.14	-37.3	- 3.7		
15		- 5.42	+4.35	-36.3	- 6.1	29	+ 1.83	+4.00	-41.0	- 0.9		
16		- 1.07	+4.43	-42.4	- 2.8	30	+ 5.83	+3.59	-41.9	+ 2.0		
17		+ 3.36		-45.2		31	+ 9.42		-39.9			

JAPETUS.

	o ^b	U	B	P		o ^b	U	B	P	
Juli	8	332 12.8	—13 25.8	—12 41.1	Okt.	4	330 11.5	—12 46.5	—12 25.1	
	10	332 18.4	13 26.1	12 41.8		6	330 2.1	12 44.8	12 23.9	
	12	332 23.6	13 26.4	12 42.5		8	329 52.6	12 43.1	12 22.6	
	14	332 28.4	13 26.6	12 43.1		10	329 43.1	12 43.4	12 21.3	
	16	332 32.9	—13 26.7	—12 43.7		12	329 33.5	—12 39.8	—12 20.0	
	18	332 37.0	13 26.7	12 44.2		14	329 23.9	12 38.2	12 18.7	
	20	332 40.6	13 26.7	12 44.7		16	329 14.3	12 36.6	12 17.4	
	22	332 43.9	13 26.6	12 45.1		18	329 4.8	12 35.0	12 16.1	
	24	332 46.7	—13 26.5	—12 45.4		20	328 55.3	—12 33.4	—12 14.8	
	26	332 49.1	13 26.3	12 45.7		22	328 45.9	12 31.9	12 13.5	
	28	332 51.1	13 26.0	12 46.0		24	328 36.5	12 30.4	12 12.2	
	30	332 52.7	13 25.7	12 46.2		26	328 27.3	12 29.0	12 10.9	
	Aug.	1	332 53.8	—13 25.3		—12 46.3	28	328 18.2	—12 27.6	—12 9.7
		3	332 54.5	13 24.8		12 46.4	30	328 9.3	12 26.2	12 8.4
5		332 54.8	13 24.3	12 46.4	Nov.	1	328 0.5	12 24.9	12 7.2	
7		332 54.7	13 23.7	12 46.4		3	327 51.9	12 23.6	12 6.0	
9		332 54.2	—13 23.1	—12 46.3		5	327 43.5	—12 22.4	—12 4.8	
11		332 53.3	13 22.4	12 46.2		7	327 35.3	12 21.2	12 3.6	
13		332 51.9	13 21.6	12 46.0		9	327 27.4	12 20.1	12 2.5	
15		332 50.1	13 20.8	12 45.8		11	327 19.8	12 19.0	12 1.4	
17		332 47.9	—13 19.9	—12 45.5		13	327 12.4	—12 18.0	—12 0.4	
19		332 45.3	13 18.9	12 45.2		15	327 5.3	12 17.1	11 59.4	
21		332 42.2	13 17.9	12 44.8		17	326 58.5	12 16.2	11 58.5	
23		332 38.7	13 16.9	12 44.3		19	326 52.1	12 15.5	11 57.6	
25		332 34.9	—13 15.8	—12 43.8		21	326 46.0	—12 14.8	—11 56.7	
27		332 30.6	13 14.7	12 43.2		23	326 40.3	12 14.2	11 55.9	
29	332 26.0	13 13.5	12 42.6	25		326 34.9	12 13.7	11 55.2		
31	332 21.1	13 12.3	12 42.0	27		326 29.9	12 13.3	11 54.5		
Sept.	2	332 15.8	—13 11.0	—12 41.3	29	326 25.3	—12 13.0	—11 53.8		
	4	332 10.1	13 9.7	12 40.6	Dez.	1	326 21.1	12 12.7	11 53.2	
	6	332 4.1	13 8.4	12 39.8		3	326 17.3	12 12.5	11 52.6	
	8	331 57.8	13 7.0	12 39.0		5	326 13.9	12 12.4	11 52.1	
	10	331 51.1	—13 5.6	—12 38.2		7	326 10.9	—12 12.4	—11 51.7	
	12	331 44.1	13 4.2	12 37.3		9	326 8.3	12 12.4	11 51.3	
	14	331 36.8	13 2.7	12 36.4		11	326 6.1	12 12.5	11 51.0	
	16	331 29.3	13 1.2	12 35.4		13	326 4.4	12 12.7	11 50.8	
	18	331 21.5	—12 59.6	—12 34.4		15	326 3.1	—12 13.0	—11 50.6	
	20	331 13.4	12 58.0	12 33.4		17	326 2.3	12 13.4	11 50.5	
	22	331 5.1	12 56.4	12 32.3		19	326 1.9	12 13.9	11 50.4	
	24	330 56.6	12 54.8	12 31.2		21	326 1.9	12 14.5	11 50.4	
	26	330 47.9	—12 53.2	—12 30.0		23	326 2.4	—12 15.1	—11 50.5	
	28	330 39.0	12 51.6	12 28.8		25	326 3.3	12 15.8	11 50.7	
30	330 30.0	12 49.9	12 27.6	27		326 4.7	12 16.6	11 50.9		
Okt.	2	330 20.8	12 48.2	12 26.4	29	326 6.6	12 17.5	11 51.2		
	4	330 11.5	—12 46.5	—12 25.1	31	326 8.9	—12 18.5	—11 51.5		

JAPETUS.

o ^h		$\alpha_{er} - \alpha_{pt}$	$\delta_{er} - \delta_{pt}$	o ^h		$\alpha_{er} - \alpha_{pt}$	$\delta_{er} - \delta_{pt}$			
Juli	8	- 9.78	+2.63	-145.3	+ 5.5	Aug. 21	- 0.34	-2.86	+134.9	- 9.6
	9	- 7.15	+2.69	-139.8	+ 6.5	22	- 3.20	-2.85	+125.3	-10.3
	10	- 4.46	+2.74	-133.3	+ 7.5	23	- 6.05	-2.83	+115.0	-11.1
	11	- 1.72	+2.76	-125.8	+ 8.3	24	- 8.88	-2.78	+103.9	-11.7
	12	+ 1.04	+2.76	-117.5	+ 9.1	25	-11.66	-2.72	+ 92.2	-12.3
	13	+ 3.80	+2.75	-108.4	+ 9.9	26	-14.38	-2.64	+ 79.9	-12.8
	14	+ 6.55	+2.71	- 98.5	+10.6	27	-17.02	-2.54	+ 67.1	-13.2
	15	+ 9.26	+2.66	- 87.9	+11.3	28	-19.56	-2.43	+ 53.9	-13.6
	16	+11.92	+2.60	- 76.6	+11.8	29	-21.99	-2.31	+ 40.3	-13.9
	17	+14.52	+2.51	- 64.8	+12.3	30	-24.30	-2.16	+ 26.4	-14.1
	18	+17.03	+2.41	- 52.5	+12.7	31	-26.46	-2.01	+ 12.3	-14.1
	19	+19.44	+2.29	- 39.8	+13.0	Sept. 1	-28.47	-1.83	- 1.8	-14.2
	20	+21.73	+2.16	- 26.8	+13.2	2	-30.30	-1.64	-16.0	-14.1
	21	+23.89	+2.02	- 13.6	+13.4	3	-31.94	-1.44	-30.1	-13.9
	22	+25.90	+1.86	- 0.2	+13.4	4	-33.38	-1.24	-44.0	-13.6
	23	+27.76	+1.69	+ 13.2	+13.4	5	-34.62	-1.02	-57.6	-13.3
	24	+29.45	+1.51	+ 26.6	+13.3	6	-35.64	-0.79	-70.9	-12.9
	25	+30.96	+1.32	+ 39.9	+13.1	7	-36.43	-0.55	-83.8	-12.3
	26	+32.28	+1.13	+ 53.0	+12.8	8	-36.98	-0.31	-96.1	-11.7
	27	+33.41	+0.92	+ 65.8	+12.5	9	-37.29	-0.06	-107.8	-10.9
	28	+34.33	+0.71	+ 78.3	+12.1	10	-37.35	+0.19	-118.7	-10.1
	29	+35.04	+0.49	+ 90.4	+11.5	11	-37.16	+0.43	-128.8	- 9.3
	30	+35.53	+0.28	+101.9	+10.9	12	-36.73	+0.68	-138.1	- 8.4
	31	+35.81	+0.07	+112.8	+10.3	13	-36.05	+0.93	-146.5	- 7.4
Aug.	1	+35.88	-0.15	+123.1	+ 9.6	14	-35.12	+1.17	-153.9	- 6.3
	2	+35.73	-0.37	+132.7	+ 8.8	15	-33.95	+1.40	-160.2	- 5.2
	3	+35.36	-0.58	+141.5	+ 8.0	16	-32.55	+1.63	-165.4	- 4.0
	4	+34.78	-0.79	+149.5	+ 7.2	17	-30.92	+1.86	-169.4	- 2.9
	5	+33.99	-0.99	+156.7	+ 6.2	18	-29.06	+2.06	-172.3	- 1.7
	6	+33.00	-1.20	+162.9	+ 5.3	19	-27.00	+2.24	-174.0	- 0.4
	7	+31.80	-1.39	+168.2	+ 4.3	20	-24.76	+2.42	-174.4	+ 0.8
	8	+30.41	-1.58	+172.5	+ 3.3	21	-22.34	+2.58	-173.6	+ 2.0
	9	+28.83	-1.75	+175.8	+ 2.3	22	-19.76	+2.73	-171.6	+ 3.2
	10	+27.08	-1.91	+178.1	+ 1.2	23	-17.03	+2.85	-168.4	+ 4.4
	11	+25.17	-2.07	+179.3	+ 0.2	24	-14.18	+2.95	-164.0	+ 5.6
	12	+23.10	-2.22	+179.5	- 0.9	25	-11.23	+3.04	-158.4	+ 6.7
	13	+20.88	-2.35	+178.6	- 2.0	26	- 8.19	+3.10	-151.7	+ 7.8
	14	+18.53	-2.46	+176.6	- 3.0	27	- 5.09	+3.14	-143.9	+ 8.8
	15	+16.07	-2.57	+173.6	- 4.0	28	- 1.95	+3.16	-135.1	+ 9.8
	16	+13.50	-2.65	+169.6	- 5.0	29	+ 1.21	+3.15	-125.3	+10.6
	17	+10.85	-2.72	+164.6	- 6.0	30	+ 4.36	+3.12	-114.7	+11.4
	18	+ 8.13	-2.79	+158.6	- 7.0	Okt. 1	+ 7.48	+3.08	-103.3	+12.2
	19	+ 5.34	-2.83	+151.6	- 7.9	2	+10.56	+3.01	- 91.1	+12.8
	20	+ 2.51	-2.85	+143.7	- 8.8	3	+13.57	+2.91	- 78.3	+13.3
	21	- 0.34		+134.9		4	+16.48		- 65.0	

JAPETUS.

		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$				$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		
\circ^h						\circ^h						
Okt.	4	+16.48	+2.80	- 65.0	+13.8	Nov.	17	-26.39	-1.99	+ 12.2	-	
	5	+19.28	+2.67	- 51.2	+14.1		18	-28.38	-1.80	- 1.2	-13.4	
	6	+21.95	+2.53	- 37.1	+14.3		19	-30.18	-1.61	- 14.5	-13.3	
	7	+24.48	+2.36	- 22.8	+14.5		20	-31.79	-1.40	- 27.7	-13.2	
	8	+26.84	+2.18	- 8.3	+14.5		21	-33.19	-1.19	- 40.6	-12.9	
	9	+29.02	+1.98	+ 6.2	+14.4		22	-34.38	-0.97	- 53.2	-12.6	
	10	+31.00	+1.78	+ 20.6	+14.3		23	-35.35	-0.74	- 65.5	-12.3	
	11	+32.78	+1.57	+ 34.9	+14.1		24	-36.09	-0.51	- 77.3	-11.8	
	12	+34.35	+1.34	+ 49.0	+13.7		25	-36.60	-0.27	- 88.5	-11.3	
	13	+35.69	+1.10	+ 62.7	+13.3		26	-36.87	-0.02	- 99.1	-10.6	
	14	+36.79	+0.87	+ 76.0	+12.8		27	-36.89	+0.21	-109.0	-9.9	
	15	+37.66	+0.62	+ 88.8	+12.2		28	-36.68	+0.46	-118.1	-9.1	
	16	+38.28	+0.37	+101.0	+11.5		29	-36.22	+0.70	-126.5	-8.4	
	17	+38.65	+0.13	+112.5	+10.7		30	-35.52	+0.93	-134.0	-7.5	
	18	+38.78	-0.12	+123.2	+9.9		Dez.	1	-34.59	+1.16	-140.6	-6.6
	19	+38.66	-0.36	+133.1	+9.1			2	-33.43	+1.37	-146.1	-5.5
	20	+38.30	-0.60	+142.2	+8.2			3	-32.06	+1.58	-150.7	-4.6
	21	+37.70	-0.83	+150.4	+7.3			4	-30.48	+1.79	-154.3	-3.6
	22	+36.87	-1.06	+157.7	+6.2			5	-28.69	+1.97	-156.8	-2.5
	23	+35.81	-1.29	+163.9	+5.2			6	-26.72	+2.15	-158.3	-1.5
	24	+34.52	-1.50	+169.1	+4.1			7	-24.57	+2.31	-158.7	-0.4
	25	+33.02	-1.70	+173.2	+3.1			8	-22.26	+2.45	-158.0	+0.7
	26	+31.32	-1.89	+176.3	+2.0			9	-19.81	+2.58	-156.2	+1.8
	27	+29.43	-2.07	+178.3	+0.9			10	-17.23	+2.69	-153.3	+2.9
	28	+27.36	-2.23	+179.2	-0.2			11	-14.54	+2.78	-149.4	+3.9
	29	+25.13	-2.38	+179.0	-1.2		12	-11.76	+2.85	-144.5	+4.9	
	30	+22.75	-2.51	+177.8	-2.3		13	- 8.91	+2.90	-138.7	+5.8	
	31	+20.24	-2.63	+175.5	-3.3		14	- 6.01	+2.92	-131.9	+6.8	
	Nov.	1	+17.61	-2.73	+172.2		-4.4	15	- 3.09	+2.94	-124.3	+7.6
		2	+14.88	-2.82	+167.8		-5.4	16	- 0.15	+2.93	-115.9	+8.4
		3	+12.06	-2.88	+162.4		-6.4	17	+ 2.78	+2.89	-106.7	+9.2
4		+ 9.18	-2.94	+156.0	-7.2	18	+ 5.67	+2.85	- 96.8	+9.9		
5		+ 6.24	-2.97	+148.8	-8.1	19	+ 8.52	+2.78	- 86.3	+10.5		
6		+ 3.27	-2.98	+140.7	-8.9	20	+11.30	+2.70	- 75.2	+11.1		
7		+ 0.29	-2.98	+131.8	-9.6	21	+14.00	+2.59	- 63.7	+11.5		
8		- 2.69	-2.96	+122.2	-10.4	22	+16.59	+2.47	- 51.8	+11.9		
9		- 5.65	-2.91	+111.8	-11.0	23	+19.06	+2.33	- 39.6	+12.2		
10		- 8.56	-2.86	+100.8	-11.6	24	+21.39	+2.19	- 27.2	+12.4		
11		-11.42	-2.78	+ 89.2	-12.0	25	+23.58	+2.02	- 14.6	+12.6		
12		-14.20	-2.69	+ 77.2	-12.5	26	+25.60	+1.85	- 2.0	+12.6		
13		-16.89	-2.58	+ 64.7	-12.8	27	+27.45	+1.66	+ 10.6	+12.5		
14		-19.47	-2.45	+ 51.9	-13.1	28	+29.11	+1.47	+ 23.1	+12.3		
15		-21.92	-2.31	+ 38.8	-13.3	29	+30.58	+1.27	+ 35.4	+12.1		
16		-24.23	-2.16	+ 25.5	-13.3	30	+31.85	+1.07	+ 47.5	+11.7		
17		-26.39		+ 12.2		31	+32.92		+ 59.2			

Elongationen.

MIMAS.

Juli	8	4.0	W.	Juli	27	23.0	W.	Aug.	16	17.9	W.	Sept.	5	12.8	W.
	8	15.3	O.		28	10.3	O.		17	5.2	O.		6	0.1	O.
	9	2.6	W.		28	21.6	W.		17	16.5	W.		6	11.4	W.
	9	13.9	O.		29	8.9	O.		18	3.8	O.		6	22.7	O.
	10	1.2	W.		29	20.2	W.		18	15.1	W.		7	10.0	W.
	10	12.5	O.		30	7.5	O.		19	2.4	O.		7	21.3	O.
	10	23.9	W.		30	18.8	W.		19	13.7	W.		8	8.7	W.
	11	11.2	O.		31	6.1	O.		20	1.0	O.		8	20.0	O.
	11	22.5	W.		31	17.4	W.		20	12.3	W.		9	7.3	W.
	12	9.8	O.	Aug.	1	4.7	O.		20	23.6	O.		9	18.6	O.
	12	21.1	W.		1	16.1	W.		21	11.0	W.		10	5.9	W.
	13	8.4	O.		2	3.4	O.		21	22.3	O.		10	17.2	O.
	13	19.7	W.		2	14.7	W.		22	9.6	W.		11	4.5	W.
	14	7.0	O.		3	2.0	O.		22	20.9	O.		11	15.8	O.
	14	18.3	W.		3	13.3	W.		23	8.2	W.		12	3.1	W.
	15	5.6	O.		4	0.6	O.		23	19.5	O.		12	14.4	O.
	15	16.9	W.		4	11.9	W.		24	6.8	W.		13	1.7	W.
	16	4.2	O.		4	23.2	O.		24	18.1	O.		13	13.0	O.
	16	15.6	W.		5	10.5	W.		25	5.4	W.		14	0.3	W.
	17	2.9	O.		5	21.8	O.		25	16.7	O.		14	11.6	O.
	17	14.2	W.		6	9.1	W.		26	4.0	W.		14	23.0	W.
	18	1.5	O.		6	20.4	O.		26	15.3	O.		15	10.3	O.
	18	12.8	W.		7	7.8	W.		27	2.6	W.		15	21.6	W.
	19	0.1	O.		7	19.1	O.		27	13.9	O.		16	8.9	O.
	19	11.4	W.		8	6.4	W.		28	1.3	W.		16	20.2	W.
	19	22.7	O.		8	17.7	O.		28	12.6	O.		17	7.5	O.
	20	10.0	W.		9	5.0	W.		28	23.9	W.		17	18.8	W.
	20	21.3	O.		9	16.3	O.		29	11.2	O.		18	6.1	O.
	21	8.6	W.		10	3.6	W.		29	22.5	W.		18	17.4	W.
	21	19.9	O.		10	14.9	O.		30	9.8	O.		19	4.7	O.
	22	7.3	W.		11	2.2	W.		30	21.1	W.		19	16.0	W.
	22	18.6	O.		11	13.5	O.		31	8.4	O.		20	3.3	O.
	23	5.9	W.		12	0.8	W.		31	19.7	W.		20	14.6	W.
	23	17.2	O.		12	12.1	O.	Sept.	1	7.0	O.		21	1.9	O.
	24	4.5	W.		12	23.4	W.		1	18.3	W.		21	13.2	W.
	24	15.8	O.		13	10.7	O.		2	5.6	O.		22	0.5	O.
	25	3.1	W.		13	22.1	W.		2	17.0	W.		22	11.9	W.
	25	14.4	O.		14	9.4	O.		3	4.3	O.		22	23.2	O.
	26	1.7	W.		14	20.7	W.		3	15.6	W.		23	10.5	W.
	26	13.0	O.		15	8.0	O.		4	2.9	O.		23	21.8	O.
	27	0.4	W.		15	19.3	W.		4	14.2	W.		24	9.1	W.
	27	11.7	O.		16	6.6	O.		5	1.5	O.		24	20.4	O.

Elongationen.

MIMAS (Fortsetzung)

Sept. 25	7.7	W.	Okt. 15	2.6	W.	Nov. 3	21.5	W.	Nov. 23	16.4	W.
25	19.0	O.	15	13.9	O.	4	8.8	O.	24	3.7	O.
26	6.3	W.	16	1.2	W.	4	20.1	W.	24	15.0	W.
26	17.6	O.	16	12.5	O.	5	7.4	O.	25	2.3	O.
27	4.9	W.	16	23.9	W.	5	18.7	W.	25	13.6	W.
27	16.2	O.	17	11.2	O.	6	6.0	O.	26	0.9	O.
28	3.5	W.	17	22.5	W.	6	17.3	W.	26	12.2	W.
28	14.8	O.	18	9.8	O.	7	4.6	O.	26	23.5	O.
29	2.2	W.	18	21.1	W.	7	15.9	W.	27	10.9	W.
29	13.5	O.	19	8.4	O.	8	3.2	O.	27	22.2	O.
30	0.8	W.	19	19.7	W.	8	14.5	W.	28	9.5	W.
30	12.1	O.	20	7.0	O.	9	1.8	O.	28	20.8	O.
30	23.4	W.	20	18.3	W.	9	13.2	W.	29	8.1	W.
Okt. 1	10.7	O.	21	5.6	O.	10	0.5	O.	29	19.4	O.
1	22.0	W.	21	16.9	W.	10	11.8	W.	30	6.7	W.
2	9.3	O.	22	4.2	O.	10	23.1	O.	30	18.0	O.
2	20.6	W.	22	15.5	W.	11	10.4	W.	Dez. 1	5.3	W.
3	7.9	O.	23	2.8	O.	11	21.7	O.	1	16.6	O.
3	19.2	W.	23	14.1	W.	12	9.0	W.	2	4.0	W.
4	6.5	O.	24	1.4	O.	12	20.3	O.	2	15.3	O.
4	17.9	W.	24	12.8	W.	13	7.6	W.	3	2.6	W.
5	5.2	O.	25	0.1	O.	13	18.9	O.	3	13.9	O.
5	16.5	W.	25	11.4	W.	14	6.2	W.	4	1.2	W.
6	3.8	O.	25	22.7	O.	14	17.5	O.	4	12.5	O.
6	15.1	W.	26	10.0	W.	15	4.8	W.	4	23.8	W.
7	2.4	O.	26	21.3	O.	15	16.1	O.	5	11.1	O.
7	13.7	W.	27	8.6	W.	16	3.5	W.	5	22.4	W.
8	1.0	O.	27	19.9	O.	16	14.8	O.	6	9.7	O.
8	12.3	W.	28	7.2	W.	17	2.1	W.	6	21.0	W.
8	23.6	O.	28	18.5	O.	17	13.4	O.	7	8.3	O.
9	10.9	W.	29	5.8	W.	18	0.7	W.	7	19.7	W.
9	22.2	O.	29	17.1	O.	18	12.0	O.	8	7.0	O.
10	9.6	W.	30	4.4	W.	18	23.3	W.	8	18.3	W.
10	20.9	O.	30	15.7	O.	19	10.6	O.	9	5.6	O.
11	8.2	W.	31	3.0	W.	19	21.9	W.	9	16.9	W.
11	19.5	O.	31	14.3	O.	20	9.2	O.	10	4.2	O.
12	6.8	W.	Nov. 1	1.6	W.	20	20.5	W.	10	15.5	W.
12	18.1	O.	1	12.9	O.	21	7.8	O.	11	2.8	O.
13	5.4	W.	2	0.3	W.	21	19.2	W.	11	14.1	W.
13	16.7	O.	2	11.6	O.	22	6.5	O.	12	1.4	O.
14	4.0	W.	2	22.9	W.	22	17.8	W.	12	12.7	W.
14	15.3	O.	3	10.2	O.	23	5.1	O.	13	0.0	O.

Elongationen.

MIMAS (Fortsetzung)

Dez. 13	11.4 W.	Dez. 18	4.5 W.	Dez. 22	21.6 W.	Dez. 27	14.7 W.
13	22.7 O.	18	15.8 O.	23	8.9 O.	28	2.0 O.
14	10.0 W.	19	3.1 W.	23	20.2 W.	28	13.3 W.
14	21.3 O.	19	14.4 O.	24	7.5 O.	29	0.6 O.
15	8.6 W.	20	1.7 W.	24	18.8 W.	29	12.0 W.
15	19.9 O.	20	13.0 O.	25	6.1 O.	29	23.3 O.
16	7.2 W.	21	0.3 W.	25	17.5 W.	30	10.6 W.
16	18.5 O.	21	11.6 O.	26	4.8 O.	30	21.9 O.
17	5.8 W.	21	23.0 W.	26	16.1 W.	31	9.2 W.
17	17.1 O.	22	10.3 O.	27	3.4 O.	31	20.5 O.

ENCELADUS.

Juli 8	1.0 O.	Juli 27	21.7 W.	Aug. 16	18.6 O.	Sept. 5	15.4 W.
8	17.4 W.	28	14.2 O.	17	11.0 W.	6	7.8 O.
9	9.9 O.	29	6.6 W.	18	3.5 O.	7	0.2 W.
10	2.3 W.	29	23.1 O.	18	19.9 W.	7	16.7 O.
10	18.8 O.	30	15.5 W.	19	12.4 O.	8	9.1 W.
11	11.2 W.	31	8.0 O.	20	4.8 W.	9	1.6 O.
12	3.6 O.	Aug. 1	0.4 W.	20	21.3 O.	9	18.0 W.
12	20.0 W.	1	16.9 O.	21	13.6 W.	10	10.5 O.
13	12.5 O.	2	9.3 W.	22	6.1 O.	11	2.9 W.
14	4.9 W.	3	1.8 O.	22	22.5 W.	11	19.4 O.
14	21.4 O.	3	18.2 W.	23	15.0 O.	12	11.7 W.
15	13.8 W.	4	10.7 O.	24	7.4 W.	13	4.2 O.
16	6.3 O.	5	3.0 W.	24	23.9 O.	13	20.6 W.
16	22.7 W.	5	19.5 O.	25	16.3 W.	14	13.1 O.
17	15.2 O.	6	11.9 W.	26	8.8 O.	15	5.5 W.
18	7.6 W.	7	4.4 O.	27	1.2 W.	15	22.0 O.
19	0.1 O.	7	20.8 W.	27	17.7 O.	16	14.4 W.
19	16.5 W.	8	13.3 O.	28	10.1 W.	17	6.9 O.
20	8.9 O.	9	5.7 W.	29	2.5 O.	17	23.2 W.
21	1.3 W.	9	22.2 O.	29	18.9 W.	18	15.7 O.
21	17.8 O.	10	14.6 W.	30	11.4 O.	19	8.1 W.
22	10.2 W.	11	7.1 O.	31	3.8 W.	20	0.6 O.
23	2.7 O.	11	23.5 W.	31	20.3 O.	20	17.0 W.
23	19.1 W.	12	16.0 O.	Sept. 1	12.7 W.	21	9.5 O.
24	11.6 O.	13	8.3 W.	2	5.2 O.	22	1.9 W.
25	4.0 W.	14	0.8 O.	2	21.6 W.	22	18.4 O.
25	20.5 O.	14	17.2 W.	3	14.1 O.	23	10.7 W.
26	12.9 W.	15	9.7 O.	4	6.5 W.	24	3.2 O.
27	5.4 O.	16	2.1 W.	4	23.0 O.	24	19.6 W.

Elongationen.

ENCELADUS (Fortsetzung).

Sept. 25	12.1 O.	Okt. 20	3.8 O.	Nov. 13	19.6 O.	Dez. 8	11.5 O.
26	4.5 W.	20	20.2 W.	14	12.1 W.	9	4.0 W.
26	21.0 O.	21	12.7 O.	15	4.5 O.	9	20.4 O.
27	13.4 W.	22	5.1 W.	15	21.0 W.	10	12.9 W.
28	5.9 O.	22	21.6 O.	16	13.4 O.	11	5.2 O.
28	22.2 W.	23	14.0 W.	17	5.8 W.	11	21.7 W.
29	14.7 O.	24	6.5 O.	17	22.2 O.	12	14.1 O.
30	7.1 W.	24	22.9 W.	18	14.7 W.	13	6.6 W.
30	23.6 O.	25	15.3 O.	19	7.1 O.	13	23.0 O.
Okt. 1	16.0 W.	26	7.7 W.	19	23.6 W.	14	15.5 W.
2	8.5 O.	27	0.2 O.	20	16.0 O.	15	7.9 O.
3	0.9 W.	27	16.6 W.	21	8.5 W.	16	0.4 W.
3	17.4 O.	28	9.1 O.	22	0.9 O.	16	16.8 O.
4	9.7 W.	29	1.5 W.	22	17.4 W.	17	9.3 W.
5	2.2 O.	29	18.0 O.	23	9.8 O.	18	1.7 O.
5	18.6 W.	30	10.4 W.	24	2.3 W.	18	18.2 W.
6	11.1 O.	31	2.8 O.	24	18.7 O.	19	10.6 O.
7	3.5 W.	31	19.2 W.	25	11.1 W.	20	3.1 W.
7	20.0 O.	Nov. 1	11.7 O.	26	3.5 O.	20	19.5 O.
8	12.4 W.	2	4.1 W.	26	20.0 W.	21	12.0 W.
9	4.9 O.	2	20.6 O.	27	12.4 O.	22	4.4 O.
9	21.2 W.	3	13.0 W.	28	4.9 W.	22	20.8 W.
10	13.7 O.	4	5.5 O.	28	21.3 O.	23	13.2 O.
11	6.1 W.	4	21.9 W.	29	13.8 W.	24	5.7 W.
11	22.6 O.	5	14.3 O.	30	6.2 O.	24	22.1 O.
12	15.0 W.	6	6.8 W.	30	22.7 W.	25	14.6 W.
13	7.5 O.	6	23.2 O.	Dez. 1	15.1 O.	26	7.0 O.
13	23.9 W.	7	15.7 W.	2	7.6 W.	26	23.5 W.
14	16.3 O.	8	8.1 O.	2	23.9 O.	27	15.9 O.
15	8.7 W.	9	0.5 W.	3	16.4 W.	28	8.4 W.
16	1.2 O.	9	17.0 O.	4	8.8 O.	29	0.8 O.
16	17.6 W.	10	9.4 W.	5	1.3 W.	29	17.3 W.
17	10.1 O.	11	1.8 O.	5	17.7 O.	30	9.7 O.
18	2.5 W.	11	18.3 W.	6	10.2 W.	31	2.2 W.
18	19.0 O.	12	10.7 O.	7	2.6 O.	31	18.6 O.
19	11.4 W.	13	3.2 W.	7	19.1 W.		

TETHYS.

Juli 8	3.5 O.	Juli 11	22.1 O.	Juli 15	16.7 O.	Juli 19	11.4 O.
9	2.1 W.	12	20.7 W.	16	15.4 W.	20	10.0 W.
10	0.8 O.	13	19.4 O.	17	14.1 O.	21	8.7 O.
10	23.4 W.	14	18.0 W.	18	12.7 W.	22	7.3 W.

Elongationen.

TETHYS (Fortsetzung).

Juli 23	6.0 O.	Sept. 1	19.9 W.	Okt. 12	9.7 O.	Nov. 21	23.5 W.
24	4.6 W.	2	18.6 O.	13	8.4 W.	22	22.2 O.
25	3.3 O.	3	17.2 W.	14	7.0 O.	23	20.8 W.
26	1.9 W.	4	15.9 O.	15	5.7 W.	24	19.5 O.
27	0.6 O.	5	14.5 W.	16	4.3 O.	25	18.1 W.
27	23.2 W.	6	13.2 O.	17	3.0 W.	26	16.8 O.
28	21.9 O.	7	11.8 W.	18	1.6 O.	27	15.4 W.
29	20.5 W.	8	10.5 O.	19	0.3 W.	28	14.1 O.
30	19.2 O.	9	9.1 W.	19	22.8 O.	29	12.7 W.
31	17.8 W.	10	7.8 O.	20	21.5 W.	30	11.4 O.
Aug. 1	16.5 O.	11	6.4 W.	21	20.1 O.	Dez. 1	10.0 W.
2	15.1 W.	12	5.1 O.	22	18.8 W.	2	8.7 O.
3	13.8 O.	13	3.7 W.	23	17.4 O.	3	7.3 W.
4	12.4 W.	14	2.4 O.	24	16.1 W.	4	6.0 O.
5	11.1 O.	15	1.0 W.	25	14.7 O.	5	4.6 W.
6	9.7 W.	15	23.7 O.	26	13.4 W.	6	3.3 O.
7	8.4 O.	16	22.3 W.	27	12.0 O.	7	1.9 W.
8	7.0 W.	17	20.9 O.	28	10.7 W.	8	0.6 O.
9	5.7 O.	18	19.6 W.	29	9.3 O.	8	23.3 W.
10	4.3 W.	19	18.2 O.	30	8.0 W.	9	21.9 O.
11	3.0 O.	20	16.9 W.	31	6.6 O.	10	20.6 W.
12	1.6 W.	21	15.5 O.	Nov. 1	5.3 W.	11	19.2 O.
13	0.3 O.	22	14.2 W.	2	3.9 O.	12	17.9 W.
13	22.9 W.	23	12.8 O.	3	2.6 W.	13	16.5 O.
14	21.6 O.	24	11.5 W.	4	1.2 O.	14	15.2 W.
15	20.2 W.	25	10.1 O.	4	23.8 W.	15	13.8 O.
16	18.9 O.	26	8.8 W.	5	22.5 O.	16	12.5 W.
17	17.5 W.	27	7.4 O.	6	21.1 W.	17	11.1 O.
18	16.2 O.	28	6.1 W.	7	19.8 O.	18	9.8 W.
19	14.8 W.	29	4.7 O.	8	18.4 W.	19	8.4 O.
20	13.5 O.	30	3.4 W.	9	17.1 O.	20	7.1 W.
21	12.1 W.	Okt. 1	2.0 O.	10	15.7 W.	21	5.7 O.
22	10.8 O.	2	0.7 W.	11	14.4 O.	22	4.4 W.
23	9.4 W.	2	23.3 O.	12	13.0 W.	23	3.0 O.
24	8.1 O.	3	21.9 W.	13	11.7 O.	24	1.8 W.
25	6.7 W.	4	20.5 O.	14	10.3 W.	25	0.4 O.
26	5.4 O.	5	19.2 W.	15	9.0 O.	25	23.1 W.
27	4.0 W.	6	17.8 O.	16	7.6 W.	26	21.7 O.
28	2.7 O.	7	16.5 W.	17	6.3 O.	27	20.4 W.
29	1.3 W.	8	15.1 O.	18	4.9 W.	28	19.0 O.
30	0.0 O.	9	13.8 W.	19	3.6 O.	29	17.7 W.
30	22.6 W.	10	12.4 O.	20	2.2 W.	30	16.3 O.
31	21.3 O.	11	11.1 W.	21	0.9 O.	31	15.0 W.

Elongationen.

DIONE.

Juli 8	17.4 W.	Aug. 22	21.1 O.	Okt. 5	15.7 O.	Nov. 18	10.1 O.
10	2.2 O.	24	6.0 W.	7	0.5 W.	19	18.9 W.
11	11.1 W.	25	14.8 O.	8	9.3 O.	21	3.8 O.
12	19.9 O.	26	23.7 W.	9	18.1 W.	22	12.6 W.
14	4.8 W.	28	8.5 O.	11	3.0 O.	23	21.5 O.
15	13.6 O.	29	17.3 W.	12	11.8 W.	25	6.2 W.
16	22.5 W.	31	2.1 O.	13	20.6 O.	26	15.1 O.
18	7.3 O.	Sept. 1	11.0 W.	15	5.4 W.	27	23.9 W.
19	16.2 W.	2	19.8 O.	16	14.3 O.	29	8.8 O.
21	1.0 O.	4	4.7 W.	17	23.1 W.	30	17.6 W.
22	9.9 W.	5	13.5 O.	19	7.9 O.	Dec. 2	2.5 O.
23	18.7 O.	6	22.3 W.	20	16.7 W.	3	11.3 W.
25	3.6 W.	8	7.1 O.	22	1.6 O.	4	20.2 O.
26	12.4 O.	9	16.0 W.	23	10.4 W.	6	4.9 W.
27	21.3 W.	11	0.8 O.	24	19.2 O.	7	13.8 O.
29	6.1 O.	12	9.6 W.	26	4.0 W.	8	22.6 W.
30	15.0 W.	13	18.5 O.	27	12.9 O.	10	7.5 O.
31	23.7 O.	15	3.3 W.	28	21.7 W.	11	16.3 W.
Aug. 2	8.6 W.	16	12.1 O.	30	6.5 O.	13	1.2 O.
3	17.4 O.	17	20.9 W.	31	15.3 W.	14	10.0 W.
5	2.3 W.	19	5.8 O.	Nov. 2	0.2 O.	15	18.9 O.
6	11.1 O.	20	14.6 W.	3	9.0 W.	17	3.7 W.
7	20.0 W.	21	23.4 O.	4	17.8 O.	18	12.6 O.
9	4.8 O.	23	8.2 W.	6	2.6 W.	19	21.4 W.
10	13.7 W.	24	17.1 O.	7	11.5 O.	21	6.3 O.
11	22.5 O.	26	1.9 W.	8	20.3 W.	22	15.1 W.
13	7.3 W.	27	10.7 O.	10	5.1 O.	24	0.0 O.
14	16.1 O.	28	19.5 W.	11	13.9 W.	25	8.8 W.
16	1.0 W.	30	4.4 O.	12	22.8 O.	26	17.7 O.
17	9.8 O.	Okt. 1	13.2 W.	14	7.6 W.	28	2.5 W.
18	18.7 W.	2	22.0 O.	15	16.5 O.	29	11.4 O.
20	3.5 O.	4	6.8 W.	17	1.3 W.	30	20.2 W.
21	12.3 W.						

RHEA.

Juli 8	10.1 W.	Juli 21	23.5 W.	Aug. 4	12.7 W.	Aug. 18	1.9 W.
10	16.3 O.	24	5.7 O.	6	18.9 O.	20	8.1 O.
12	22.6 W.	26	11.9 W.	9	1.1 W.	22	14.3 W.
15	4.8 O.	28	18.1 O.	11	7.3 O.	24	20.5 O.
17	11.0 W.	31	0.3 W.	13	13.5 W.	27	2.7 W.
19	17.2 O.	Aug. 2	6.5 O.	15	19.7 O.	29	8.9 O.

Elongationen.

RHEA (Fortsetzung).

Aug. 31	15.1 W.	Okt. 2	5.5 W.	Nov. 2	19.7 W.	Dez. 4	10.2 W.
Sept. 2	21.2 O.	4	11.6 O.	5	1.8 O.	6	16.4 O.
5	3.4 W.	6	17.8 W.	7	8.1 W.	8	22.6 W.
7	9.6 O.	9	0.0 O.	9	14.2 O.	11	4.8 O.
9	15.8 W.	11	6.1 W.	11	20.4 W.	13	11.0 W.
11	22.0 O.	13	12.3 O.	14	2.5 O.	15	17.2 O.
14	4.1 W.	15	18.4 W.	16	8.7 W.	17	23.4 W.
16	10.3 O.	18	0.6 O.	18	14.9 O.	20	5.7 O.
18	16.5 W.	20	6.7 W.	20	21.1 W.	22	11.9 W.
20	22.7 O.	22	12.9 O.	23	3.2 O.	24	18.1 O.
23	4.8 W.	24	19.1 W.	25	9.4 W.	27	0.3 W.
25	11.0 O.	27	1.2 O.	27	15.6 O.	29	6.6 O.
27	17.2 W.	29	7.4 W.	29	21.8 W.	31	12.8 W.
29	23.3 O.	31	13.5 O.	Dez. 2	4.0 O.		

TITAN.

Juli 9	0.4 W.	Aug. 25	20.6 W.	Okt. 12	13.9 W.	Nov. 29	7.1 W.
17	0.5 O.	Sept. 2	20.2 O.	20	12.7 O.	Dez. 7	6.0 O.
24	23.6 W.	10	18.6 W.	28	11.4 W.	15	5.4 W.
Aug. 1	23.6 O.	18	17.9 O.	Nov. 5	10.2 O.	23	4.6 O.
9	22.3 W.	26	16.3 W.	13	9.1 W.	31	4.2 W.
17	22.1 O.	Okt. 4	15.4 O.	21	7.9 O.		

HYPERION.

Juli 18	14.4 O.	Aug. 30	4.1 O.	Okt. 11	11.5 O.	Nov. 22	16.9 O.
28	8.2 W.	Sept. 8	20.1 W.	21	3.6 W.	Dez. 2	10.0 W.
Aug. 8	22.2 O.	20	8.4 O.	Nov. 1	14.1 O.	13	20.4 O.
18	14.9 W.	30	0.2 W.	11	6.7 W.	23	13.7 W.

Elongationen und Konjunktionen.

JAPETUS.

Juli 12	7.4 Obere Konjunktion	Okt. 18	7.6 Östliche Elongation
31	20.7 Östliche Elongation	Nov. 7	17.9 Untere Konjunktion
Aug. 21	14.8 Untere Konjunktion	27	19.0 Westliche Elongation
Sept. 10	14.9 Westliche Elongation	Dez. 16	15.2 Obere Konjunktion
29	5.9 Obere Konjunktion		

Verfinsterungen.

Mitte der Verfinsterung		Halbe Dauer	Mitte der Verfinsterung		Halbe Dauer	Mitte der Verfinsterung		Halbe Dauer			
MIMAS.											
Juli	8	9 ^h 12 ^m	56 ^m	Aug.	13	4 ^h 44 ^m	52 ^m	Sept.	18	0 ^h 18 ^m	47 ^m
	9	7 49	56		14	3 21	52		18	22 55	47
	10	6 26	56		15	1 58	52		19	21 32	47
	11	5 3	56		16	0 35	51		20	20 10	47
	12	3 40	56		16	23 12	51		21	18 47	47
	13	2 18	56		17	21 50	51		22	17 24	47
	14	0 55	56		18	20 27	51		23	16 1	47
	14	23 32	56		19	19 4	51		24	14 39	46
	15	22 9	55		20	17 41	51		25	13 16	46
	16	20 46	55		21	16 18	51		26	11 53	46
	17	19 23	55		22	14 55	51		27	10 30	46
	18	18 0	55		23	13 33	50		28	9 8	46
	19	16 37	55		24	12 10	50		29	7 45	46
	20	15 15	55		25	10 47	50		30	6 22	46
	21	13 52	55		26	9 24	50	Okt.	1	4 59	46
	22	12 29	55		27	8 1	50		2	3 37	46
	23	11 6	55		28	6 39	50		3	2 14	46
	24	9 43	54		29	5 16	50		4	0 51	45
	25	8 20	54		30	3 53	49		4	23 29	45
	26	6 57	54		31	2 30	49		5	22 6	45
	27	5 35	54	Sept.	1	1 8	49		6	20 43	45
	28	4 12	54		1	23 45	49		7	19 21	45
	29	2 49	54		2	22 22	49		8	17 58	45
	30	1 26	54		3	20 59	49		9	16 35	45
	31	0 3	54		4	19 37	49		10	15 12	45
	31	22 40	53		5	18 14	49		11	13 50	45
Aug.	1	21 18	53		6	16 51	48		12	12 27	45
	2	19 55	53		7	15 28	48		13	11 4	45
	3	18 32	53		8	14 6	48		14	9 42	45
	4	17 9	53		9	12 43	48		15	8 19	45
	5	15 46	53		10	11 20	48		16	6 56	45
	6	14 23	53		11	9 57	48		17	5 34	45
	7	13 1	53		12	8 34	48		18	4 11	44
	8	11 38	52		13	7 12	48		19	2 48	44
	9	10 15	52		14	5 49	48		20	1 26	44
	10	8 52	52		15	4 26	47		21	0 3	44
	11	7 29	52		16	3 3	47		21	22 41	44
	12	6 7	52		17	1 41	47		22	21 18	44

Verfinsterungen.

Mitte der Verfinsterung	Halbe Dauer	Mitte der Verfinsterung	Halbe Dauer	Mitte der Verfinsterung	Halbe Dauer
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MIMAS (Fortsetzung).

Okt.			Nov.			Dez.		
23	19 ^h 55 ^m	44 ^m	16	9 ^h 29 ^m	44 ^m	9	23 ^h 2 ^m	44 ^m
24	18 33	44	17	8 6	44	10	21 40	44
25	17 10	44	18	6 44	44	11	20 17	44
26	15 47	44	19	5 21	44	12	18 54	44
27	14 25	44	20	3 58	44	13	17 31	44
28	13 2	44	21	2 36	44	14	16 9	44
29	11 39	44	22	1 13	44	15	14 46	44
30	10 17	44	22	23 51	44	16	13 23	44
31	8 54	44	23	22 28	44	17	12 1	44
Nov. 1	7 31	44	24	21 5	44	18	10 38	44
2	6 9	44	25	19 43	44	19	9 15	44
3	4 46	44	26	18 20	44	20	7 52	45
4	3 23	44	27	16 57	44	21	6 30	45
5	2 1	44	28	15 35	44	22	5 7	45
6	0 38	44	29	14 12	44	23	3 44	45
6	23 16	44	30	12 49	44	24	2 22	45
7	21 53	44	Dez. 1	11 27	44	25	0 59	45
8	20 30	44	2	10 4	44	25	23 36	45
9	19 8	44	3	8 41	44	26	22 14	45
10	17 45	44	4	7 18	44	27	20 51	45
11	16 22	44	5	5 56	44	28	19 28	45
12	15 0	44	6	4 33	44	29	18 5	45
13	13 37	44	7	3 10	44	30	16 43	45
14	12 14	44	8	1 48	44	31	15 20	45
15	10 52	44	9	0 25	44			

ENCELADUS.

Juli			Juli			Aug.		
9	1 ^h 3 ^m	49 ^m	22	17 ^h 55 ^m	48 ^m	5	10 ^h 46 ^m	47 ^m
10	9 56	49	24	2 48	48	6	19 40	47
11	18 49	49	25	11 41	48	8	4 33	46
13	3 43	49	26	20 34	48	9	13 26	46
14	12 36	49	28	5 27	48	10	22 19	46
15	21 29	49	29	14 21	47	12	7 12	46
17	6 22	49	30	23 14	47	13	16 6	46
18	15 15	49	Aug. 1	8 7	47	15	0 59	46
20	0 8	48	2	17 0	47	16	9 52	46
21	9 2	48	4	1 53	47	17	18 45	45

Verfinsterungen.

Mitte der Verfinsterung	Halbe Dauer	Mitte der Verfinsterung	Halbe Dauer	Mitte der Verfinsterung	Halbe Dauer
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ENCELADUS (Fortsetzung).

Aug. 19	3 ^h 38 ^m	45 ^m	Okt. 3	8 ^h 56 ^m	40 ^m	Nov. 17	14 ^h 18 ^m	34 ^m
20	12 31	45	4	17 49	40	18	23 12	33
21	21 25	45	6	2 43	40	20	8 5	33
23	6 18	45	7	11 36	40	21	16 59	33
24	15 11	45	8	20 29	39	23	1 52	33
26	0 4	44	10	5 23	39	24	10 46	33
27	8 57	44	11	14 16	39	25	19 39	32
28	17 51	44	12	23 9	39	27	4 33	32
30	2 44	44	14	8 3	39	28	13 26	32
31	11 37	44	15	16 56	38	29	22 20	32
Sept. 1	20 30	44	17	1 50	38	Dez. 1	7 13	31
3	5 24	44	18	10 43	38	2	16 7	31
4	14 17	43	19	19 36	38	4	1 0	31
5	23 10	43	21	4 30	38	5	9 54	31
7	8 3	43	22	13 23	38	6	18 47	30
8	16 57	43	23	22 17	37	8	3 41	30
10	1 50	43	25	7 10	37	9	12 35	30
11	10 43	43	26	16 4	37	10	21 28	30
12	19 36	43	28	0 57	37	12	6 22	29
14	4 30	42	29	9 50	37	13	15 15	29
15	13 23	42	30	18 44	36	15	0 9	29
16	22 16	42	Nov. 1	3 37	36	16	9 3	29
18	7 9	42	2	12 31	36	17	17 56	28
19	16 3	42	3	21 24	36	19	2 50	28
21	0 56	42	5	6 17	35	20	11 44	28
22	9 49	41	6	15 11	35	21	20 37	28
23	18 42	41	8	0 4	35	23	5 31	27
25	3 36	41	9	8 58	35	24	14 25	27
26	12 29	41	10	17 51	35	25	23 18	27
27	21 22	41	12	2 45	34	27	8 12	26
29	6 16	41	13	11 38	34	28	17 6	26
30	15 9	40	14	20 31	34	30	1 59	26
Okt. 2	0 2	40	16	5 25	34	31	10 53	26

Die anderen Trabanten werden zur Zeit der Saturnsopposition nicht verfinstert.

Jan. 1 17 ^h	♃ ♂ ♂, ♃ 1° 39' südl.	April 9 5 ^h	♀ ♂ ♃, ♀ 0° 57' nördl.
2 19	☉ im Perigäum	11 2	♁ □ ☉
6 4	♃ ♃ ☉	13 11	♀ ♂ ♃, ♀ 0° 39' nördl.
7 6	♀ gr. südl. hel. Breite	13 20	♂ ♂ ☾
7 11	♁ ♂ ☉	18 17	♃ ♂ ☾
10 20	♃ ♂ ☾	19 12	♀ ♂ ☾
17 13	♂ ♂ ☾	19 12	♀ ♂ ☾
19 18	♀ ♂ ☾	19 16	♀ ♂ ♀, ♀ 0° 22' nördl.
22 18	♀ ♂ ☾	21 12	♀ obere ♂ ☉
25 19	♃ ♂ ☾	24 6	♀ im Ω
26 7	♀ im Ω	28 6	♀ obere ♂ ☉
26 17	♀ gr. östl. Elong. 18° 25'	28 20	♀ im Perihel
28 20	♀ im ♀	29 3	♃ ♂ ☾
30 6	♀ ♂ ♂, ♀ 0° 21' nördl.	Mai 9 4	♀ gr. nördl. hel. Breite
30 21	♀ im Perihel	12 9	♂ ♂ ☾
Febr. 6 23	♃ ♂ ☾	13 4	♂ □ ☉
10 4	♀ gr. nördl. hel. Breite	16 8	♃ ♂ ☾
11 3	♀ untere ♂ ☉	19 12	♀ ♂ ☾
12 22	♂ im ♀	20 5	♀ gr. östl. Elong. 22° 22'
15 10	♂ ♂ ☾, Bedeckung	20 19	♀ ♂ ☾
18 17	♀ ♂ ☾	21 23	♀ im Ω
18 19	♀ ♂ ☾	26 12	♃ ♂ ☾
22 8	♃ ♂ ☾	27 0	♃ □ ☉
28 8	♃ ♃ ☉	Juni 1 15	♀ im ♀
März 4 8	♀ im Aphel	3 —	☾ Finsternis
5 15	♀ im ♀	7 4	♀ ♂ ♀, ♀ 2° 11' südl.
5 23	♃ ♂ ☾	9 21	♂ ♂ ☾
9 8	♀ gr. westl. Elong. 27° 26'	11 20	♀ im Aphel
15 21	♀ im Aphel	12 19	♃ ♂ ☾
16 4	♂ ♂ ☾	14 12	♀ untere ♂ ☉
19 13	♀ ♂ ☾	17 5	♀ ♂ ☾
20 14	♀ ♂ ☾	17 —	☉ Finsternis
20 19	☉ im γ, Frühlingsanfang	18 15	♀ ♂ ☾
22 1	♃ ♂ ☾	21 15	☉ im ☽, Sommersanfang
26 10	♂ ♂ ♂, ♂ 0° 18' südl.	22 18	♀ ♂ ♃, ♀ 1° 52' nördl.
26 16	♀ gr. südl. hel. Breite	23 2	♃ ♂ ☾
April 1 23	♃ ♂ ☾	24 17	♀ im Perihel
2 23	♃ ♂ ☉	Juli 2 5	♀ gr. südl. hel. Breite
4 7	♃ □ ☉	3 17	☉ im Apogäum
5 5	♀ gr. südl. hel. Breite	7 18	♀ gr. westl. Elong. 21° 11'

Juli	8	5	♂♂☾, Bedeckung	Sept. 28	16	♂♂☾, Bedeckung	
	9	7	♂♂☉		30	1	♂♂☾, Bedeckung
	10	4	♂♂☾	Okt.	10	17	♂☐☉
	11	16	♂♂☉		12	1	♂♂☾
	15	10	♀♂☾		12	4	♀ untere ♂☉
	15	15	♂☐☉		12	20	♂☐☉
	16	11	♀ gr. nördl. hel. Breite		13	7	♂♂☉
	18	19	♀♂☾		13	10	♀♂☾
	19	19	♂ gr. südl. hel. Breite		15	0	♀ im Aphel
	20	19	♂♂☾		17	4	♀ im Ω
	21	5	♀ im Ω		17	18	♀♂☾
	23	6	♀♂♂, ♀ 1° 6' nördl.		18	21	♀♂♂ Scorpii, ♀ 2° 26' nördl.
	25	20	♀ im Perihel		21	19	♀ im Perihel
	27	7	♀♂♂ Leonis, ♀ 1° 9' nördl.		25	19	♂♂☾
Aug.	4	1	♀ obere ♂☉		27	9	♂♂☾, Bedeckung
	5	3	♀ gr. nördl. hel. Breite		27	20	♀ gr. westl. Elong. 18° 31'
	5	5	♂♂☾, Bedeckung	Nov.	1	2	♀ gr. nördl. hel. Breite
	6	11	♂♂☾		6	9	♀ gr. südl. hel. Breite
	11	20	♀♂♂, ♀ 0° 12' nördl.		8	19	♂♂☾
	12	10	♀♂♂ Leonis, ♀ 1° 18' nördl.		11	11	♀♂☾
	13	8	♂ im Perihel		16	17	♀♂☾, Bedeckung
	16	12	♀♂☾		22	11	♂♂☾
	17	13	♂♂☾		23	14	♀♂♂, ♀ 2° 34' südl.
	18	1	♀♂☾		23	16	♂♂☾
	25	1	♀♂♂, ♀ 0° 40' südl.		24	13	♀ im Ω
	28	14	♀ im Ω		26	—	☾ Finsternis
Sept.	1	17	♂♂☾, Bedeckung	Dez.	2	6	♀ gr. östl. Elong. 47° 18'
	2	17	♂♂☾, Bedeckung		2	19	♀ obere ♂☉
	7	19	♀ im Aphel		4	18	♀ im Aphel
	9	15	♀♂♂ Virginis, ♀ 2° 15' nördl.		6	12	♂♂☾
	10	13	♀ im Ω		12	—	☉ Finsternis
	14	7	♂♂☾		12	20	♀♂☾
	16	8	♀♂☾		14	1	♂ im Ω
	16	23	♀ gr. östl. Elong. 26° 34'		16	4	♀♂☾
	17	10	♀♂☾		20	13	♂♂☾
	18	2	♂♂☉		20	22	♂♂☾
	19	22	♀♂♂ Virginis, ♀ 1° 3' südl.		22	0	☉ im Ω, Wintersanfang
	23	6	☉ in ♄, Herbstanfang		25	3	♀ gr. südl. hel. Breite
	23	23	♂♂☉		27	21	♀♂♂, ♀ 1° 43' südl.
	28	4	♀ gr. südl. hel. Breite				

Zur Berechnung der physischen Mondlibration 1909.

12^h	M	M'	ω	12^h	M	M'	ω	Bewegung von M			
Jan. 0	46.8	358.6	255.5	Juli 9	9.1	185.9	286.7	1	13.1	6	78.4
10	177.4	8.5	257.1	19	139.8	195.7	288.3	2	26.1	7	91.5
20	308.1	18.3	258.8	29	270.4	205.6	290.0	3	39.2	8	104.5
30	78.7	28.2	260.4	Aug. 8	41.1	215.4	291.6	4	52.3	9	117.6
Febr. 9	209.4	38.0	262.0	18	171.7	225.3	293.3	5	65.3	10	130.6
19	340.0	47.9	263.7	28	302.4	235.2	294.9				
März 1	110.7	57.8	265.3	Sept. 7	73.0	245.0	296.5	1 ^h	0.5	13 ^h	7.1
11	241.3	67.6	267.0	17	203.7	254.9	298.2	2	1.1	14	7.6
21	12.0	77.5	268.6	27	334.3	264.7	299.8	3	1.6	15	8.2
31	142.6	87.3	270.3	Okt. 7	105.0	274.6	301.5	4	2.2	16	8.7
April 10	273.3	97.2	271.9	17	235.6	284.4	303.1	5	2.7	17	9.3
20	43.9	107.0	273.5	27	6.3	294.3	304.8	6	3.3	18	9.8
30	174.6	116.9	275.2	Nov. 6	136.9	304.2	306.4	7	3.8	19	10.3
Mai 10	305.2	126.7	276.8	16	267.6	314.0	308.1	8	4.4	20	10.9
20	75.9	136.6	278.5	26	38.2	323.9	309.7	9	4.9	21	11.4
30	206.5	146.5	280.1	Dez. 6	168.9	333.7	311.3	10	5.4	22	12.0
Juni 9	337.2	156.3	281.8	16	299.5	343.6	313.0	11	6.0	23	12.5
19	107.8	166.2	283.4	26	70.2	353.4	314.6	12	6.5	24	13.1
29	238.5	176.0	285.0	36	200.8	3.3	316.3				

M = Mittlere Anomalie des Mondes.

M' = Mittlere Anomalie der Sonne.

ω = Abstand des Mondperigäums vom aufsteigenden Knoten der Mondbahn auf der Ekliptik.

J = $1^\circ 32' 6''$ = Mittlere Neigung des Mondäquators gegen die Ekliptik.

τ = $-12'' \sin M + 59'' \sin M' + 18'' \sin 2\omega$.

ρ = $-107'' \cos M + 36'' \cos(M + 2\omega) - 11'' \cos(2M + 2\omega)$.

$\sigma \sin J$ = $-109'' \sin M + 36'' \sin(M + 2\omega) - 11'' \sin(2M + 2\omega)$.

τ, ρ, σ sind die Beträge der physischen Mondlibration in selenographischer Länge, der Neigung und dem Knoten des Mondäquators auf der Ekliptik.

Tafel zur Berechnung der optischen Mondlibration.

$\lambda - \vartheta$	$\Delta\lambda$	$\frac{i}{a}$	B	$\lambda - \vartheta$	$\Delta\lambda$	$\frac{i}{a}$	B
0°	+0.0	+37	+0° 0.0	35°	+0.6	+ 45	+0° 52.8
1	0.0	37	0 1.6	36	0.6	46	0 54.1
2	0.0	37	0 3.2	37	0.6	47	0 55.4
3	0.1	37	0 4.8	38	0.6	47	0 56.7
4	0.1	37	0 6.4	39	0.6	48	0 58.0
5	+0.1	+37	+0 8.0	40	+0.6	+ 49	+0 59.2
6	0.1	37	0 9.6	41	0.6	49	I 0.4
7	0.1	38	0 11.2	42	0.6	50	I 1.6
8	0.2	38	0 12.8	43	0.6	51	I 2.8
9	0.2	38	0 14.4	44	0.6	52	I 4.0
10	+0.2	+38	+0 16.0	45	+0.6	+ 53	+I 5.2
11	0.2	38	0 17.6	46	0.6	54	I 6.3
12	0.2	38	0 19.1	47	0.6	55	I 7.4
13	0.3	38	0 20.7	48	0.6	56	I 8.5
14	0.3	38	0 22.3	49	0.6	57	I 9.6
15	+0.3	+39	+0 23.9	50	+0.6	+ 58	+I 10.6
16	0.3	39	0 25.4	51	0.6	59	I 11.7
17	0.3	39	0 27.0	52	0.6	60	I 12.7
18	0.4	39	0 28.5	53	0.6	61	I 13.7
19	0.4	39	0 30.1	54	0.6	63	I 14.6
20	+0.4	+40	+0 31.6	55	+0.6	+ 65	+I 15.5
21	0.4	40	0 33.1	56	0.6	67	I 16.4
22	0.4	40	0 34.6	57	0.6	69	I 17.3
23	0.4	41	0 36.1	58	0.6	71	I 18.1
24	0.5	41	0 37.5	59	0.5	73	I 19.0
25	+0.5	+41	+0 39.0	60	+0.5	+ 75	+I 19.8
26	0.5	41	0 40.4	61	0.5	77	I 20.6
27	0.5	42	0 41.9	62	0.5	79	I 21.3
28	0.5	42	0 43.3	63	0.5	82	I 22.1
29	0.5	43	0 44.7	64	0.5	85	I 22.8
30	+0.5	+43	+0 46.1	65	+0.5	+ 88	+I 23.5
31	0.5	43	0 47.5	66	0.5	92	I 24.1
32	0.6	44	0 48.8	67	0.4	96	I 24.8
33	0.6	44	0 50.1	68	0.4	100	I 25.4
34	0.6	45	0 51.4	69	0.4	104	I 26.0
35	+0.6	+45	+0 52.8	70	+0.4	+109	+I 26.5

Tafel zur Berechnung der optischen Mondlibration.

$\lambda - \mathcal{S}$	$\Delta\lambda$	$\frac{I}{a}$	B	$\lambda - \mathcal{S}$	$\Delta\lambda$	$\frac{I}{a}$	B
70°	+0.4	+109	+1 26.5 _{0.6}	80°	+0.2	+ 215	+1 30.7 _{0.2}
71	0.4	115	1 27.1 _{0.5}	81	0.2	239	1 30.9 _{0.2}
72	0.4	121	1 27.6 _{0.5}	82	0.2	268	1 31.1 _{0.2}
73	0.3	128	1 28.1 _{0.5}	83	0.1	306	1 31.3 _{0.2}
74	0.3	136	1 28.6 _{0.4}	84	0.1	357	1 31.5 _{0.2}
75	+0.3	+144	+1 29.0 _{0.4}	85	+0.1	+ 429	+1 31.7 _{0.1}
76	0.3	154	1 29.4 _{0.4}	86	0.1	535	1 31.8 _{0.1}
77	0.3	166	1 29.8 _{0.3}	87	0.1	713	1 31.9 _{0.1}
78	0.2	180	1 30.1 _{0.3}	88	0.0	1070	1 32.0 _{0.1}
79	0.2	196	1 30.4 _{0.3}	89	0.0	+2139	1 32.1 _{0.0}
80	+0.2	+215	+1 30.7	90	0.0	∞	+1 32.1

$J = 1^\circ 32' 6'' =$ Neigung des Mondäquators gegen die Ekliptik.

$\mathcal{S} = 180^\circ + \Omega =$ Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

$\lambda, \beta =$ Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg} \frac{J^2}{2} \sin 2(\lambda - \mathcal{S}) 3437'.75 \qquad \frac{I}{a} = \frac{I}{\cos(\lambda - \mathcal{S})} \sin J$$

$$\operatorname{tg} B = \sin(\lambda - \mathcal{S}) \operatorname{tg} J$$

$l_0 =$ Mittlere Länge des Mondes (siehe Tafel S. 88)

$l, b' =$ Optische Libration der Mondmitte in selenographischer Länge und Breite

$$l = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{I}{a}} - l_0$$

$$b' = B - \beta.$$

Für $\lambda - \mathcal{S}$ zwischen 90° und 180° gehe man mit dem Argument $180^\circ - (\lambda - \mathcal{S})$ in die Tafel ein und nehme $\Delta\lambda$ und $\frac{I}{a}$ negativ.

Für $\lambda - \mathcal{S}$ zwischen 180° und 270° gehe man mit dem Argument $\lambda - \mathcal{S} - 180^\circ$ in die Tafel ein und nehme $\frac{I}{a}$ und B negativ.

Für $\lambda - \mathcal{S}$ zwischen 270° und 360° gehe man mit dem Argument $360^\circ - (\lambda - \mathcal{S})$ in die Tafel ein und nehme $\Delta\lambda$ und B negativ.

Bruchteile des Jahres 1909,
für ^a Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn
des annus fictus.

Monats- tag	Januar		Februar		März		April		Mai		Juni	
	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch
1	0	0.0013	31	0.0862	59	0.1628	90	0.2477	120	0.3298	151	0.4147
2	1	0040	32	0889	60	1656	91	2504	121	3326	152	4174
3	2	0068	33	0916	61	1683	92	2532	122	3353	153	4202
4	3	0095	34	0944	62	1710	93	2559	123	3380	154	4229
5	4	0122	35	0971	63	1738	94	2586	124	3408	155	4257
6	5	0.0150	36	0.0998	64	0.1765	95	0.2614	125	0.3435	156	0.4284
7	6	0177	37	1026	65	1792	96	2641	126	3463	157	4311
8	7	0205	38	1053	66	1820	97	2669	127	3490	158	4339
9	8	0232	39	1081	67	1847	98	2696	128	3517	159	4366
10	9	0259	40	1108	68	1875	99	2723	129	3545	160	4393
11	10	0.0287	41	0.1135	69	0.1902	100	0.2751	130	0.3572	161	0.4421
12	11	0314	42	1163	70	1929	101	2778	131	3599	162	4448
13	12	0341	43	1190	71	1957	102	2805	132	3627	163	4476
14	13	0369	44	1218	72	1984	103	2833	133	3654	164	4503
15	14	0396	45	1245	73	2012	104	2860	134	3682	165	4530
16	15	0.0424	46	0.1272	74	0.2039	105	0.2888	135	0.3709	166	0.4558
17	16	0451	47	1300	75	2066	106	2915	136	3736	167	4585
18	17	0478	48	1327	76	2094	107	2942	137	3764	168	4613
19	18	0506	49	1354	77	2121	108	2970	138	3791	169	4640
20	19	0533	50	1382	78	2148	109	2997	139	3819	170	4667
21	20	0.0560	51	0.1409	79	0.2176	110	0.3025	140	0.3846	171	0.4695
22	21	0588	52	1437	80	2203	111	3052	141	3873	172	4722
23	22	0615	53	1464	81	2231	112	3079	142	3901	173	4749
24	23	0643	54	1491	82	2258	113	3107	143	3928	174	4777
25	24	0670	55	1519	83	2285	114	3134	144	3955	175	4804
26	25	0.0697	56	0.1546	84	0.2313	115	0.3161	145	0.3983	176	0.4832
27	26	0725	57	1573	85	2340	116	3189	146	4010	177	4859
28	27	0752	58	1601	86	2367	117	3216	147	4038	178	4886
29	28	0779	59	1628	87	2395	118	3244	148	4065	179	4914
30	29	0807			88	2422	119	3271	149	4092	180	4941
31	30	0.0834			89	0.2450	120	0.3298	150	0.4120	181	0.4968
32	31	0862			90	2477			151	4147		

Bruchteile des Jahres 1909,

für ^o Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn
des annus fictus.

Monats- tag	Juli		August		September		Oktober		November		Dezember	
	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch
1	181	0.4968	212	0.5817	243	0.6666	273	0.7487	304	0.8336	334	0.9157
2	182	4996	213	5845	244	6693	274	7515	305	8363	335	9185
3	183	5023	214	5872	245	6721	275	7542	306	8391	336	9212
4	184	5051	215	5899	246	6748	276	7569	307	8418	337	9240
5	185	5078	216	5927	247	6775	277	7597	308	8446	338	9267
6	186	0.5105	217	0.5954	248	0.6803	278	0.7624	309	0.8473	339	0.9294
7	187	5133	218	5981	249	6830	279	7652	310	8500	340	9322
8	188	5160	219	6009	250	6858	280	7679	311	8528	341	9349
9	189	5187	220	6036	251	6885	281	7706	312	8555	342	9376
10	190	5215	221	6064	252	6912	282	7734	313	8582	343	9404
11	191	0.5242	222	0.6091	253	0.6940	283	0.7761	314	0.8610	344	0.9431
12	192	5270	223	6118	254	6967	284	7788	315	8637	345	9459
13	193	5297	224	6146	255	6994	285	7816	316	8665	346	9486
14	194	5324	225	6173	256	7022	286	7843	317	8692	347	9513
15	195	5352	226	6200	257	7049	287	7871	318	8719	348	9541
16	196	0.5379	227	0.6228	258	0.7077	288	0.7898	319	0.8747	349	0.9568
17	197	5407	228	6255	259	7104	289	7925	320	8774	350	9595
18	198	5434	229	6283	260	7131	290	7953	321	8802	351	9623
19	199	5461	230	6310	261	7159	291	7980	322	8829	352	9650
20	200	5489	231	6337	262	7186	292	8008	323	8856	353	9678
21	201	0.5516	232	0.6365	263	0.7214	293	0.8035	324	0.8884	354	0.9705
22	202	5543	233	6392	264	7241	294	8062	325	8911	355	9732
23	203	5571	234	6420	265	7268	295	8090	326	8938	356	9760
24	204	5598	235	6447	266	7296	296	8117	327	8966	357	9787
25	205	5626	236	6474	267	7323	297	8144	328	8993	358	9815
26	206	0.5653	237	0.6502	268	0.7350	298	0.8172	329	0.9021	359	0.9842
27	207	5680	238	6529	269	7378	299	8199	330	9048	360	9869
28	208	5708	239	6556	270	7405	300	8227	331	9075	361	9897
29	209	5735	240	6584	271	7433	301	8254	332	9103	362	9924
30	210	5762	241	6611	272	7460	302	8281	333	9130	363	9951
31	211	0.5790	242	0.6639	273	0.7487	303	0.8309	334	0.9157	364	0.9979
32	212	5817	243	6666			304	8336			365	1.0006

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs
seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21058	57583	94108	30633	67158	03683	40208	76733	13258	49783
4	22519	59044	95569	32094	68619	05144	41669	78194	14719	51244
8	23980	60505	97030	33555	70080	06605	43130	79655	16180	52705
12	25441	61966	98491	35016	71541	08066	44591	81116	17641	54166
16	26902	63427	<u>99952</u>	36477	73002	09527	46052	82577	19102	55627
20	28363	64888	01413	37938	74463	10988	47513	84038	20563	57088
24	29824	66349	02874	39399	75924	12449	48974	85499	22024	58549
28	31285	67810	04335	40860	77385	13910	50435	86960	23485	60010
32	32746	69271	05796	42321	78846	15371	51896	88421	24946	61471
36	34207	70732	07257	43782	80307	16832	53357	89882	26407	62932
40	35668	72193	08718	45243	81768	18293	54818	91343	27868	64393
44	37129	73654	09179	46704	83229	19754	56279	92804	29329	65854
48	38590	75115	10640	48165	84690	21215	57740	94265	30790	67315
52	40051	76576	12101	49626	86151	22676	59201	95726	32251	68776
56	41512	78037	13562	51087	87612	24137	60662	97187	33712	70237
60	42973	79498	15023	52548	89073	25598	62123	<u>98648</u>	35173	71698
64	44434	80959	17484	54009	90534	27059	63584	00109	36634	73159
68	45895	82420	18945	55470	91995	28520	65045	01570	38095	74620
72	47356	83881	20406	56931	93456	29981	66506	03031	39556	76081
76	48817	85342	21867	58392	94917	31442	67967	04492	41017	77542
80	50278	86803	23328	59853	96378	32903	69428	05953	42478	79003
84	51739	88264	24789	61314	97839	34364	70889	07414	43939	80464
88	53200	89725	26250	62775	<u>99300</u>	35825	72350	08875	45400	81925
92	54661	91186	27711	64236	00761	37286	73811	10336	46861	83386
96	56122	92647	29172	65697	02222	38747	75272	11797	48322	84847
100	57583	94108	30633	67158	03683	40208	76733	13258	49783	86308
	17	17	18	18	19	19	19	20	20	20

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
0	1721058	1580	2298153
1	1721424	1581	2298519
2	1721789	1582	2298884
3	1722154	1583	2299239
4	1722519	1584	2299604

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs
seit Anfang der Periode verfloßenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86308	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*
4	87769	24294	60819	97344	33869	70394	06909	43433	79957	16481
8	89230	25755	62280	98805	35330	71855	08370	44894	81418	17942
12	90691	27216	63741	00266	36791	73316	09831	46355	82879	19403
16	92152	28677	65202	01727	38252	74777	11292	47816	84340	20864
20	93613	30138	66663	03188	39713	76238	12753	49277	85801	22325
24	95074	31599	68124	04649	41174	77699	14214	50738	87262	23786
28	96535	33060	69585	06110	42635	79160	15675	52199	88723	25247
32	97996	34521	71046	07571	44096	80621	17136	53660	90184	26708
36	99457	35982	72507	09032	45557	82082	18597	55121	91645	28169
40	00918	37443	73968	10493	47018	83543	20058	56582	93106	29630
44	02379	38904	75429	11954	48479	85004	21519	58043	94567	31091
48	03840	40365	76890	13415	49940	86465	22980	59504	96028	32552
52	05301	41826	78351	14876	51401	87926	24441	60965	97489	34013
56	06762	43287	79812	16337	52862	89387	25902	62426	98950	35474
60	08223	44748	81273	17798	54323	90848	27363	63887	00411	36935
64	09684	46209	82734	19259	55784	92309	28824	65348	01872	38396
68	11145	47670	84195	20720	57245	93770	30285	66809	03333	39857
72	12606	49131	85656	22181	58706	95231	31746	68270	04794	41318
76	14067	50592	87117	23642	60167	96692	33207	69731	06255	42779
80	15528	52053	88578	25103	61628	98153	34668	71192	07716	44240
84	16989	53514	90039	26564	63089	99604	36129	72653	09177	45701
88	18450	54975	91500	28025	64550	01065	37590	74114	10638	47162
92	19911	56436	92961	29486	66011	02526	39051	75575	12099	48623
96	21372	57897	94422	30947	67472	03987	40512	77036	13560	50084
100	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*	51545
	21	21	21	22	22	23	23	23	24	24

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
1700	2341973	1800	2378497	1900	2415021
1701	2342338	1801	2378862	1901	2415386
1702	2342703	1802	2379227	1902	2415751
1703	2343068	1803	2379592	1903	2416116
1704	2343433	1804	2379957	1904	2416481

Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.		Tafel II.					
Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.
+ 0 ^m 0 ^s	0 0 0	+ 0.0	0 ^m 0 ^s	+ 4.0	24 21	+ 8.0	48 42
0 10	1 0 52	0.1	0 37	4.1	24 58	8.1	49 19
0 20	2 1 45	0.2	1 13	4.2	25 34	8.2	49 55
0 30	3 2 37	0.3	1 50	4.3	26 11	8.3	50 32
0 40	4 3 30	0.4	2 26	4.4	26 47	8.4	51 8
0 50	5 4 22	0.5	3 3	4.5	27 24	8.5	51 45
		0.6	3 39	4.6	28 0	8.6	52 21
+ 1 0	6 5 15	0.7	4 16	4.7	28 37	8.7	52 58
1 10	7 6 7	0.8	4 52	4.8	29 13	8.8	53 34
1 20	8 6 59	0.9	5 29	4.9	29 50	8.9	54 11
1 30	9 7 52	+ 1.0	6 5	+ 5.0	30 26	+ 9.0	54 47
1 40	10 8 44	1.1	6 42	5.1	31 3	9.1	55 24
1 50	11 9 37	1.2	7 18	5.2	31 39	9.2	56 0
+ 2 0	12 10 29	1.3	7 55	5.3	32 16	9.3	56 37
2 10	13 11 21	1.4	8 31	5.4	32 52	9.4	57 13
2 20	14 12 14	1.5	9 8	5.5	33 29	9.5	57 50
2 30	15 13 6	1.6	9 44	5.6	34 5	9.6	58 26
2 40	16 13 59	1.7	10 21	5.7	34 42	9.7	59 3
2 50	17 14 51	1.8	10 57	5.8	35 18	9.8	59 39
		1.9	11 34	5.9	35 55	9.9	60 16
+ 3 0	18 15 44	+ 2.0	12 10	+ 6.0	36 31		
3 10	19 16 36	2.1	12 47	6.1	37 8		
3 20	20 17 28	2.2	13 23	6.2	37 44		
3 30	21 18 21	2.3	14 0	6.3	38 21		
3 40	22 19 13	2.4	14 36	6.4	38 57		
3 50	23 20 6	2.5	15 13	6.5	39 34		
4 0	24 20 58	2.6	15 49	6.6	40 10	+ 0.01	0 4
		2.7	16 26	6.7	40 47	0.02	0 7
		2.8	17 2	6.8	41 23	0.03	0 11
		2.9	17 39	6.9	42 0	0.04	0 15
		+ 3.0	18 16	+ 7.0	42 37	0.05	0 18
		3.1	18 53	7.1	43 14	0.06	0 22
		3.2	19 29	7.2	43 50	0.07	0 26
		3.3	20 6	7.3	44 27	0.08	0 29
		3.4	20 42	7.4	45 3	0.09	0 33
		3.5	21 19	7.5	45 40	0.10	0 37
		3.6	21 55	7.6	46 16		
		3.7	22 32	7.7	46 53		
		3.8	23 8	7.8	47 29		
		3.9	23 45	7.9	48 6		

Tafel III.

+ 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung der Sternzeit in Mittl. Zeit.

Tafel I.		Tafel II.					
Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.
- 0 ^m 0 ^s	0 ^m 0 ^s 0 ^s	- 0.0	0 ^m 0 ^s	- 4.0	24 25	- 8.0	48 ^m 50 ^s
0 10	1 1 2	0.1	0 37	4.1	25 2	8.1	49 27
0 20	2 2 5	0.2	1 13	4.2	25 38	8.2	50 3
0 30	3 3 7	0.3	1 50	4.3	26 15	8.3	50 40
0 40	4 4 10	0.4	2 26	4.4	26 51	8.4	51 16
0 50	5 5 12	0.5	3 3	4.5	27 28	8.5	51 53
		0.6	3 40	4.6	28 5	8.6	52 30
- 1 0	6 6 15	0.7	4 16	4.7	28 41	8.7	53 6
1 10	7 7 17	0.8	4 53	4.8	29 18	8.8	53 43
1 20	8 8 19	0.9	5 30	4.9	29 55	8.9	54 20
1 30	9 9 22						
1 40	10 10 24	- 1.0	6 6	- 5.0	30 31	- 9.0	54 56
1 50	11 11 27	1.1	6 43	5.1	31 8	9.1	55 33
		1.2	7 19	5.2	31 44	9.2	56 9
- 2 0	12 12 29	1.3	7 56	5.3	32 21	9.3	56 46
2 10	13 13 31	1.4	8 32	5.4	32 57	9.4	57 22
2 20	14 14 34	1.5	9 9	5.5	33 34	9.5	57 59
2 30	15 15 36	1.6	9 46	5.6	34 11	9.6	58 36
2 40	16 16 39	1.7	10 22	5.7	34 47	9.7	59 12
2 50	17 17 41	1.8	10 59	5.8	35 24	9.8	59 49
		1.9	11 36	5.9	36 1	9.9	60 26
- 3 0	18 18 44						
3 10	19 19 46	- 2.0	12 12	- 6.0	36 37		
3 20	20 20 48	2.1	12 49	6.1	37 14		
3 30	21 21 51	2.2	13 25	6.2	37 50		
3 40	22 22 53	2.3	14 2	6.3	38 27		
3 50	23 23 56	2.4	14 38	6.4	39 3		
4 0	24 24 58	2.5	15 15	6.5	39 40		
		2.6	15 52	6.6	40 17		
		2.7	16 28	6.7	40 53		
		2.8	17 5	6.8	41 30		
		2.9	17 42	6.9	42 7		
		- 3.0	18 19	- 7.0	42 44		
		3.1	18 56	7.1	43 21		
		3.2	19 32	7.2	43 57		
		3.3	20 9	7.3	44 34		
		3.4	20 45	7.4	45 10		
		3.5	21 22	7.5	45 47		
		3.6	21 59	7.6	46 24		
		3.7	22 35	7.7	47 0		
		3.8	23 12	7.8	47 37		
		3.9	23 49	7.9	48 14		

Tafel III.

- 0.01	0 ^m 4 ^s
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung von Stunden, Minuten und Sekunden
in Dezimalteile des Tages und umgekehrt.

Tag	h m s	Tag	h m s	Tag	h m s
0.01	0 14 24	0.36	8 38 24	0.71	17 2 24
0.02	0 28 48	0.37	8 52 48	0.72	17 16 48
0.03	0 43 12	0.38	9 7 12	0.73	17 31 12
0.04	0 57 36	0.39	9 21 36	0.74	17 45 36
0.05	1 12 0	0.40	9 36 0	0.75	18 0 0
0.06	1 26 24	0.41	9 50 24	0.76	18 14 24
0.07	1 40 48	0.42	10 4 48	0.77	18 28 48
0.08	1 55 12	0.43	10 19 12	0.78	18 43 12
0.09	2 9 36	0.44	10 33 36	0.79	18 57 36
0.10	2 24 0	0.45	10 48 0	0.80	19 12 0
0.11	2 38 24	0.46	11 2 24	0.81	19 26 24
0.12	2 52 48	0.47	11 16 48	0.82	19 40 48
0.13	3 7 12	0.48	11 31 12	0.83	19 55 12
0.14	3 21 36	0.49	11 45 36	0.84	20 9 36
0.15	3 36 0	0.50	12 0 0	0.85	20 24 0
0.16	3 50 24	0.51	12 14 24	0.86	20 38 24
0.17	4 4 48	0.52	12 28 48	0.87	20 52 48
0.18	4 19 12	0.53	12 43 12	0.88	21 7 12
0.19	4 33 36	0.54	12 57 36	0.89	21 21 36
0.20	4 48 0	0.55	13 12 0	0.90	21 36 0
0.21	5 2 24	0.56	13 26 24	0.91	21 50 24
0.22	5 16 48	0.57	13 40 48	0.92	22 4 48
0.23	5 31 12	0.58	13 55 12	0.93	22 19 12
0.24	5 45 36	0.59	14 9 36	0.94	22 33 36
0.25	6 0 0	0.60	14 24 0	0.95	22 48 0
0.26	6 14 24	0.61	14 38 24	0.96	23 2 24
0.27	6 28 48	0.62	14 52 48	0.97	23 16 48
0.28	6 43 12	0.63	15 7 12	0.98	23 31 12
0.29	6 57 36	0.64	15 21 36	0.99	23 45 36
0.30	7 12 0	0.65	15 36 0	1.00	24 0 0
0.31	7 26 24	0.66	15 50 24		
0.32	7 40 48	0.67	16 4 48		
0.33	7 55 12	0.68	16 19 12		
0.34	8 9 36	0.69	16 33 36		
0.35	8 24 0	0.70	16 48 0		

Zur Verwandlung von Stunden, Minuten und Sekunden
in Dezimalteile des Tages und umgekehrt.

Tag	m s	Tag	m s	Tag	m s	Tag	s
0.0001	0 8.64	0.0036	5 11.04	0.0071	10 13.44	0.00001	0.864
02	0 17.28	37	5 19.68	72	10 22.08	2	1.728
03	0 25.92	38	5 28.32	73	10 30.72	3	2.592
04	0 34.56	39	5 36.96	74	10 39.36	4	3.456
05	0 43.20	40	5 45.60	75	10 48.00	5	4.320
06	0 51.84	41	5 54.24	76	10 56.64	6	5.184
07	1 0.48	42	6 2.88	77	11 5.28	7	6.048
08	1 9.12	43	6 11.52	78	11 13.92	8	6.912
09	1 17.76	44	6 20.16	79	11 22.56	9	7.776
10	1 26.40	45	6 28.80	80	11 31.20	10	8.640
11	1 35.04	46	6 37.44	81	11 39.84		
12	1 43.68	47	6 46.08	82	11 48.48		
13	1 52.32	48	6 54.72	83	11 57.12		
14	2 0.96	49	7 3.36	84	12 5.76		
15	2 9.60	50	7 12.00	85	12 14.40		
16	2 18.24	51	7 20.64	86	12 23.04	0.000001	0.086
17	2 26.88	52	7 29.28	87	12 31.68	2	0.173
18	2 35.52	53	7 37.92	88	12 40.32	3	0.259
19	2 44.16	54	7 46.56	89	12 48.96	4	0.346
20	2 52.80	55	7 55.20	90	12 57.60	5	0.432
21	3 1.44	56	8 3.84	91	13 6.24	6	0.518
22	3 10.08	57	8 12.48	92	13 14.88	7	0.605
23	3 18.72	58	8 21.12	93	13 23.52	8	0.691
24	3 27.36	59	8 29.76	94	13 32.16	9	0.778
25	3 36.00	60	8 38.40	95	13 40.80	10	0.864
26	3 44.64	61	8 47.04	96	13 49.44		
27	3 53.28	62	8 55.68	97	13 58.08		
28	4 1.92	63	9 4.32	98	14 6.72		
29	4 10.56	64	9 12.96	99	14 15.36		
30	4 19.20	65	9 21.60	100	14 24.00		
31	4 27.84	66	9 30.24				
32	4 36.48	67	9 38.88				
33	4 45.12	68	9 47.52				
34	4 53.76	69	9 56.16				
35	5 2.40	70	10 4.80				

Hilfsgrößen
zur Berechnung der Präzession nach Newcomb
von den Katalogepochen t_0 bis 1909.0.

$$t = 1909.0.$$

t_0	$m^s(t-t_0)$	$\log [n^s(t-t_0)]$	$\log [n''(t-t_0)]$
1790	+6 ^m 5.497	2.201595	3.377686
1800	5 34.792	2.163465	3.339556
1810	5 4.086	2.121664	3.297755
1825	4 18.025	2.050295	3.226386
1830	4 2.670	2.023638	3.199729
1835	+3 47.314	1.995239	3.171330
1836	3 44.244	1.989329	3.165420
1840	3 31.959	1.964851	3.140942
1842	3 25.816	1.952075	3.128166
1845	3 16.602	1.932178	3.108269
1850	+3 1.245	1.896845	3.072936
1855	2 45.888	1.858382	3.034473
1860	2 30.530	1.816180	2.992271
1864	2 18.244	1.77919	2.95528
1865	2 15.172	1.76943	2.94552
1870	+1 59.814	1.71704	2.89313
1872	1 53.671	1.69417	2.87027
1875	1 44.455	1.65745	2.83354
1880	1 29.095	1.58836	2.76445
1885	1 13.735	1.50617	2.68226
1890	+0 58.374	1.40471	2.58080
1895	0 43.013	1.27208	2.44817
1900	+0 27.652	1.08019	2.25628
1910	-0 3.073	0.12594 _n	1.30203 _n

m und n sind die Newcombschen Konstanten für die Epoche
 $\frac{1}{2}(t+t_0)$.

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist

$$\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)] \sin \alpha' \operatorname{tg} \delta'$$

$$\delta = \delta_0 + [n''(t-t_0)] \cos \alpha'.$$

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Åbo	—	+60° 26' 56.8	— 0 ^h 35 ^m 31.50	— 5.84	+60° 17' 3.1	9.998902
Adelaide	43	— 34 55 33.8	— 8 20 45.62	— 82.26	— 34 44 46.2	9.999530
Albany (N. Stw.) ¹⁾	40	+42 39 12.6	+5 48 41.16	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 41.93	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.) ²⁾	342	+36 47 50	+0 41 26.42	+ 6.81	+36 36 48	9.999505
Allegheny	349	+40 27 41.6	+6 13 37.77	+61.38	+40 16 20.0	9.999415
Altenburg ³⁾	229	+50 58 20	+0 3 50.64	+ 0.63	+50 47 4	9.999141
Altona Mer.-Kreis ⁴⁾	31	+53 32 45.3	+0 13 48.61	+ 2.27	+53 21 44.5	9.999065
Amherst (Neue Stw.)	110	+42 21 56.5	+5 43 40.78	+56.46	+42 10 29.0	9.999341
Amherst (Alte Stw.)	122	+42 22 17.1	+5 43 39.52	+56.46	+42 10 49.6	9.999351
Annapolis	—	+38 58 53.5	+5 59 31.33	+59.06	+38 47 38.5	9.999428
Ann Arbor	285	+42 16 48.0	+6 28 30.03	+63.82	+42 5 20.7	9.999364
Arcetri Zentr. d. St. ⁵⁾	186	+43 45 14.4	+0 8 33.50	+ 1.41	+43 33 44.5	9.999321
Arequipa	2451	— 16 22 28.0	+5 39 46.53	+55.82	— 16 16 15.4	0.000053
Armagh	61	+54 21 12.7	+1 20 10.2	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 20.7	— 0 41 18.12	— 6.78	+37 47 11.3	9.999453
Bamberg (Reinolds' St.)	299	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999174
Barcelona ⁶⁾	—	+41 24 2	+0 44 59.7	+ 7.39	+41 12 37	9.999368
Beloit	—	+42 30 9	+6 49 42.2	+67.31	+42 18 41	9.999340
Bergen	—	+60 23 54	+0 32 22.07	+ 5.32	+60 14 0	9.998903
Berkeley	—	+37 52 23.6	+9 2 37.56	+89.14	+37 41 14.7	9.999455
Berlin Zentr. d. St. ⁷⁾	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania)	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem ⁸⁾	—	+40 36 23.5	+5 55 6.74	+58.34	+40 25 1.3	9.999388
Birr Castle ⁹⁾	—	+53 5 47	+1 25 15.7	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna Zentr. d. Stw.	—	+44 29 52.8	+0 8 10.32	+ 1.34	+44 18 16	9.999289
Bombay	—	+18 54 0	— 3 57 40.90	— 39.05	+18 46 58	9.999849
Bonn Zentr. d. Stw.	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux	73	+44 50 7.2	+0 55 40.30	+ 9.14	+44 38 36.6	9.999286
Boston (University)	—	+42 21 32.5	+5 37 49.8	+55.50	+42 10 5.0	9.999344
Bothkamp ¹⁰⁾	32	+54 12 9.6	+0 13 3.6	+ 2.15	+54 1 13.6	9.999048
Bremen (Olbers' Stw.)	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau Zentr. d. Stw.	147	+51 6 56.5	— 0 14 33.92	— 2.39	+50 55 41.1	9.999132

1) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37°.0 nördlich, 7°.10 östlich.

2) Alte Sternwarte 3°.8 südlich, 8° östlich.

3) Fr. Krüger.

4) 1873 nach Kiel verlegt.

5) Seit Oktober 1872, früher in Florenz.

6) J. Comas Solá.

7) Seit 1835. Alte Sternwarte 56°.4 nördlich, 0°.39 westlich.

8) Sayre Observatory, auch South-Bethlehem.

9) Earl of Roese.

10) Herr von Bülow.

470 KOORDINATEN DER STERNWARTEN.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Brisbane	— ^m	—27° 28' 0"	—9 ^h 18 ^m 31.6	—91.75	—27° 18' 36"	9.999693
Brüssel (Alte St.) Pass. Inst.	56	+50 51 10.7	+0 36 6.09	+ 5.93	+50 39 54.0	9.999133
Brüssel (Ueclle)	102	+50 47 53	+0 36 8.1	+ 5.94	+50 36 36	9.999137
Budapest ¹⁾	—	+47 29 34.7	—0 22 40.5	— 3.73	+47 18 6.5	9.999213
Bukarest (Mil. Geogr. Inst.)	—	+44 24 34.2	—0 50 52.21	— 8.36	+44 13 3.7	9.999292
Cambridge Engl.	28	+52 12 51.6	+0 53 12.05	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass. ²⁾	24	+42 22 47.6	+5 38 5.82	+55.54	+42 11 20.1	9.999345
Cap d. gut. Hoffnung	16	—33 56 3.2	—0 20 19.94	— 3.34	—33 45 24.3	9.999551
Catania	60	+37 30 13.3	—0 6 45.8	— 1.11	+37 19 6.7	9.999468
Chapultepec (Alte Stw.) ³⁾	—	+19 25 17.5	+7 30 13.68	+73.96	+19 18 5.5	9.999841
Charkow	—	+50 0 10.2	—1 31 19.8	—15.01	+49 48 49.7	9.999150
Charlottesville ⁴⁾	—	+38 2 1.2	+6 7 40.06	+60.40	+37 50 51.4	9.999451
Chicago (Alte Stw.) ⁵⁾	—	+41 50 1.0	+6 44 1.62	+66.37	+41 38 34.8	9.999357
Christiania Mer.-Kreis	25	+59 54 43.7	+0 10 41.29	+ 1.76	+59 44 43.5	9.998916
Cincinnati (Alte Stw.)	—	+39 6 26.5	+6 31 33.89	+64.32	+38 55 10.9	9.999425
Cincinnati (Neue Stw.) ⁶⁾	263	+39 8 19.5	+6 31 16.13	+64.27	+38 57 3.7	9.999442
Cleveland (Case Obs.)	—	+41 30 14.5	+6 20 0.66	+62.43	+41 18 49.3	9.999365
Clinton (Litchfield Obs.)	276	+43 3 16.5	+5 55 12.28	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 25.8	+1 27 9.0	+14.32	+40 1 5.2	9.999405
Columbia Missouri ⁷⁾	225	+38 56 51.7	+7 2 53.17	+69.47	+38 45 36.9	9.999444
Cordoba	439	—31 25 15.5	+5 10 23.0	+50.99	—31 15 2.0	9.999638
Danzig	3	+54 21 18.0	—0 21 4.7	— 3.46	+54 10 23.1	9.999043
Denver ⁸⁾	1650	+39 40 36.4	+7 53 22.47	+77.76	+39 29 18.1	9.999523
Dorpat Mer.-Kreis	73	+58 22 47.1	—0 53 18.43	— 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.) ⁹⁾	121	+51 2 16.8	—0 1 19.94	— 0.22	+50 51 1.0	9.999132
Dresden (Mathem. Salon)	—	+51 3 14.7	—0 1 21.03	— 0.22	+50 51 59.0	9.999124
Dublin (Dunsink Obs.)	86	+53 23 13.1	+1 18 55.9	+12.97	+53 12 11.2	9.999072
Düsseldorf (Stuk)	26	+51 12 25.0	+0 26 29.9	+ 4.35	+51 1 10.0	9.999122
Dunecht ¹⁰⁾	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.5	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.85	+10.89	+55 46 41.7	9.999012
Edinburg (Blackf. Hill)	134	+55 55 28.0	+1 6 18.8	+10.89	+55 44 46.2	9.999014
Evanston (Dearborn Obs.)	—	+42 3 33.4	+6 44 17.1	+66.41	+41 52 6.6	9.999351
Flagstaff (Lowell Obs.)	—	+35 12 30	+8 20 19.4	+82.19	+35 1 40	9.999520
Florenz (Alte Sternw.) ¹¹⁾	73	+43 46 4.1	+0 8 33.50	+ 1.40	+43 34 34.2	9.999313
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	+0 8 32.28	+ 1.40	+43 35 19.4	9.999308

1) Geod. Observ. des Polytechnikums.

5) Harvard College Observatory.

2) 1883 nach Tacubaya verlegt.

3) Leander Mc. Cormick Obs. der University of Virginia.

4) 1887 geschlossen.

6) Mount Lookout, seit 1873.

7) Laws Observatory.

9) University Park, Chamberlin Observatory.

8) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14°.2 nördlich, 1°.57 westlich.

10) Earl of Crawford.

11) 1872 nach Arestri verlegt.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Genf Mer.-Kreis	407 ^m	+46° 11' 59.1	+0° 28' 58.19	+ 4.76	+46° 0' 29.0	9.999274
Genua (Mar. Stw.) Mer.-Kr.	—	+44 25 9.3	+0 17 53.52	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C.	46	+38 54 26.2	+6 1 53.13	+59.45	+38 43 11.6	9.999433
Glasgow Schottl.	—	+55 52 42.6	+1 10 45.35	+11.62	+55 42 0.4	9.999007
Glasgow Missouri	228	+39 13 45.6	+7 4 52.86	+69.80	+39 2 29.4	9.999438
Göttingen Mer.-Kreis	161	+51 31 48.2	+0 13 48.58	+ 2.27	+51 20 34.6	9.999123
Gohlis ¹⁾	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) Zentr. d. St. ²⁾	320	+50 56 37.5	+0 10 44.36	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	— 8 13	— 1.35	+46 53 8.2	9.999250
Greenwich Transit Circle	47	+51 28 38.1	+0 53 34.80	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Hamburg (Alte Stw.) M.-Kr.	25	+53 33 5.2	+0 13 41.20	+ 2.25	+53 22 4.4	9.999064
Hamburg (Bergedorf) M.-Kr.	—	+53 28 46.0	+0 12 37.06	+ 2.07	+53 17 44.7	9.999064
Hamburg (D. Seewarte)	30	+53 32 51.8	+0 13 41.38	+ 2.25	+53 21 51.0	9.999065
Hanover N. H.	—	+43 42 15.2	+5 42 42.80	+56.30	+43 30 45.4	9.999310
Harrow (Col. Tupmann)	66	+51 34 47.4	+0 55 54.7	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds. ³⁾	—	+40 59 25	+5 49 4.5	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.59	+58.28	+39 49 16.7	9.999403
Heidelberg (Wolfs Stw.)	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königsst.) M.-Kr.	570	+49 23 54.6	+0 18 41.67	+ 3.07	+49 12 31.7	9.999204
St. Helena	210	—15 55 26	+1 16 27.0	+12.56	—15 49 23	9.999906
Helsingfors Mer.-Kreis	38	+60 9 42.6	— 46 14.30	— 7.60	+59 59 45.4	9.998912
Herény (von Gothard)	229	+47 15 47.4	— 12 49.8	— 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 12.2	— 6 43 7.1	— 66.22	+22 10 8.4	9.999792
Hudson	—	+41 14 42.6	+6 19 18.99	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park) ⁴⁾	—	+52 0 33	+0 48 39.0	+ 7.99	+51 49 22	9.999100
Jena (Univers.)	156	+50 55 35.6	+0 7 14.1	+ 1.19	+50 44 19.2	9.999137
Jena (Winkler)	174	+50 56 15.7	+0 7 12.89	+ 1.19	+50 44 59.4	9.999139
Kairo	—	+30 4 38.2	— 11 34.00	— 11.76	+29 54 40.2	9.999638
Kalocsa ⁵⁾	110	+46 31 42	— 0 22 19.4	— 3.67	+46 20 12	9.999245
Karlsruhe ⁶⁾	110	+49 0 29.6	+0 19 59.40	+ 3.28	+48 49 5.4	9.999183
Kasan (Univers.)	79	+55 47 24.3	— 2 22 54.13	— 23.48	+55 36 41.3	9.999014
Kasan (Engelhardt)	98	+55 50 20.0	— 2 21 41.6	— 23.28	+55 39 37.4	9.999014
Kew	10	+51 28 6	+0 54 49.9	+ 9.01	+51 16 52	9.999115
Kiel Neuer Mer.-Kreis	47	+54 20 27.6	+0 12 59.35	+ 2.13	+54 9 32.6	9.999047
Kiel Alter Mer.-Kreis	47	+54 20 28.5	+0 12 59.23	+ 2.13	+54 9 33.5	9.999047

1) Hr. Winkler, August 1887 nach Jena verlegt.

2) Dr. Draper.

3) Erzbischöf. Haynaldsche Sternwarte.

4) Seit 1853, früher Seeberg.

5) Col. Tomline.

6) 1896 nach Heidelberg verlegt.

472 KOORDINATEN DER STERNWARTEN.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Kiew Mer.-Kreis	179 ^m	+50° 27' 12.5	-1° 8' 25.77	-11.24	+50° 15' 53.9	9.999151
Kis Kartal ¹⁾	—	+47 41 54.8	-0 24 36.8	- 4.04	+47 30 27.0	9.999208
Königsberg Reps. M.-Kr. ²⁾	22	+54 42 50.6	-0 28 24.18	- 4.67	+54 31 58.6	9.999036
Kopenhagen (Neue Stw.) ³⁾	14	+55 41 12.9	+0 3 16.11	+ 0.54	+55 30 29.0	9.999012
Krakau Mer.-Kreis	221	+50 3 51.9	-0 26 15.48	- 4.31	+49 52 31.6	9.999164
Kremsmünster Mer.-Kr.	384	+48 3 23.1	-0 2 56.78	- 0.48	+47 51 56.1	9.999225
Landstuhl (Fauth)	385	+49 24 42.5	+0 23 18.45	+ 3.83	+49 13 19.7	9.999191
La Plata	—	-34 54 30	+4 45 11.9	+46.85	-34 43 43	9.999527
Leiden (Neue Stw.) Mer.-Kr. ⁴⁾	6	+52 9 20.2	+0 35 38.65	+ 5.86	+51 58 10.4	9.999097
Leipzig (Neue Stw.) Zentr. ⁵⁾	119	+51 20 5.9	+0 4 0.87	+ 0.66	+51 8 52.0	9.999125
Lemberg	338	+49 50 11	-0 42 29	- 6.98	+49 38 50	9.999177
Leyton ⁶⁾	—	+51 34 34.0	+0 53 35.7	+ 8.80	+51 23 21.0	9.999111
Lissabon (Neue Stw.)	94	+38 42 31.3	+1 30 19.58	+14.84	+38 31 17.7	9.999441
Lissabon (Mar. Stw.)	—	+38 42 17.6	+1 30 8.4	+14.81	+38 31 4.0	9.999435
Liverpool (Neue Stw.) ⁷⁾	61	+53 24 3.8	+1 5 52.0	+10.82	+53 13 2.0	9.999070
London ⁸⁾	—	+51 31 30	+0 54 11.9	+ 8.90	+51 20 17	9.999112
Lübeck (Navig.-Sch.)	19	+53 51 31.1	+0 10 49.2	+ 1.78	+53 40 32.5	9.999056
Lund Zentr. d. Stw.	34	+55 41 52.0	+0 0 49.83	+ 0.14	+55 31 8.3	9.999013
Lussinpiccolo ⁹⁾	—	+44 32 11	-0 4 17.5	- 0.70	+44 20 40	9.999288
Lüttich Ougrée	128	+50 37 6	+0 31 23	+ 5.15	+50 25 48	9.999144
Lyon	299	+45 41 40.8	+0 34 26.8	+ 5.66	+45 30 10.3	9.999279
Madison (Washburn Obs.)	293	+43 4 36.7	+6 51 12.88	+67.55	+42 53 7.8	9.999345
Madras	7	+13 4 8.1	-4 27 24.53	-43.93	+12 59 4.8	9.999926
Madrid Zentr. d. Stw.	655	+40 24 29.7	+1 8 19.89	+11.23	+40 13 8.3	9.999437
Mailand Gr. Turm	120	+45 27 59.4	+0 16 48.91	+ 2.76	+45 16 30.1	9.999273
Manila	—	+14 35 25	-7 10 15	-70.68	+14 29 49	9.999909
Mannheim Zentr. d. Stw.	98	+49 29 11.0	+0 19 44.38	+ 3.24	+49 17 48.5	9.999170
Marburg	248	+50 48 46.9	+0 18 29.9	+ 3.04	+50 37 30.0	9.999147
Mare Island Calif.	18	+38 5 55.8	+9 2 40.1	+89.15	+37 54 45.6	9.999451
Markree (Col. Cooper)	45	+54 10 31.7	+1 27 23.2	+14.36	+53 59 35.5	9.999050
Marseille (N. St.) M.-Kr. ¹⁰⁾	75	+43 18 19.1	+0 32 0.24	+ 5.26	+43 6 49.8	9.999325
Melbourne	28	-37 49 53.1	-8 46 19.37	-86.46	-37 38 44.5	9.999458
Meudon	—	+48 48 18	+0 44 39.3	+ 7.34	+48 36 53	9.999180
Mexico	2277	+19 26 1.3	+7 30 1.51	+73.93	+19 18 49.0	9.999995
Middletown Conn.	—	+41 33 16.0	+5 44 12.0	+56.54	+41 21 50.6	9.999364
Modena	63	+44 38 52.8	+0 9 52.0	+ 1.62	+44 27 22.2	9.999289

1) Baron von Podmaniczky. 2) Nach 1898, vor 1898 0°.01 westlich.
 3) Seit 1861 Nov. 11. Alte Sternwarte 20°.3 südlich, 0°.03 westlich.
 4) Seit 1860. Alte Sternwarte 8°.0 nördlich, 0°.42 östlich.
 5) Seit 1861. Alte Sternwarte 14°.2 nördlich, 4°.00 westlich. 6) J. Gurney Barclay.
 7) Alte Sternwarte 44°.0 nördlich, 17°.1 östlich. 8) Regents Park, G. Bishop 1836 - 61.
 9) Manora-Sternwarte. 10) Seit 1866. Alte Sternwarte 30°.1 südlich, 6°.2 westlich; 29^m

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Moncalieri	—	+44° 59' 51"	+0° 22' 46"	+ 3.74	+44° 48' 20"	9.999277
Montreal	20	+45 30 17.0	+5 47 53.45	+57.15	+45 18 46.4	9.999265
Mt. Hamilton (Lick) .	1283	+37 20 25.6	+9 0 9.65	+88.74	+37 9 20.1	9.999556
Moskau Mer.-Kr. . . .	142	+55 45 19.5	—1 36 42.23	—15.89	+55 34 36.2	9.999019
München West-Kuppel	529	+48 8 45.5	+0 7 8.78	+ 1.17	+47 57 18.8	9.999233
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+6 40 47.61	+65.84	+35 58 0.9	9.999497
Natal	—	—29 50 47.0	—1 10 26.4	—11.57	—29 40 51.7	9.999643
Neapel (Capo di M.) . .	164	+40 51 45.4	—0 3 26.8	— 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven (Neue Stw.) ¹⁾	—	+41 19 24.0	+5 45 15.33	+56.72	+41 7 59.3	9.999369
New York (Rutherford)	—	+40 43 48.5	+5 49 31.46	+57.42	+40 32 25.8	9.999384
New York (Columb. C.)	—	+40 45 23.1	+5 49 28.53	+57.41	+40 34 0.3	9.999384
Nikolajew	55	+46 58 22.1	—1 14 18.96	—12.21	+46 46 51.4	9.999230
Nizza Kl. Mer.-Kr. ²⁾	378	+43 43 16.9	+0 24 22.65	+ 4.01	+43 31 47.0	9.999335
Northfield (Goodsell Obs.)	286	+44 27 41	+7 6 10.8	+70.01	+44 16 10	9.999310
Oakland Californ. ³⁾	11	+37 48 5	+9 2 41.1	+89.15	+37 36 57	9.999458
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	—1 9 27.25	—11.41	+46 17 6.3	9.999243
Odessa (Filtale Paikowa)	—	+46 28 36.0	—1 9 27.39	—11.41	+46 17 6.1	9.999239
Ogden Utah	—	+41 13 8.6	+8 21 34.45	+82.40	+41 1 44.3	9.999372
O-Gyalla (Neue Stw.) ⁴⁾	—	+47 52 27.3	—0 19 10.69	— 3.15	+47 40 59.9	9.999204
Olmütz ⁵⁾	—	+49 35 43	—0 15 33	— 2.55	+49 24 21	9.999160
Oxford (Radcl. Obs.) . .	65	+51 45 36.0	+0 58 37.4	+ 9.63	+51 34 24.0	9.999111
Oxford (Univers.)	64	+51 45 34.2	+0 58 35.2	+ 9.62	+51 34 22.2	9.999110
Oxford Missouri	—	+34 22 12.6	+6 51 41.9	+67.63	+34 11 29.7	9.999540
Padua Mauer-Quadr. . .	31	+45 24 1.0	+0 6 5.65	+ 1.00	+45 12 30.4	9.999268
Palermo	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454
Paramatta	—	—33 48 49.8	—9 10 25.4	—90.42	—33 38 12.0	9.999553
Paris (Obs. nat.) Mer. Cassiel	59	+48 50 11.2	+0 44 13.86	+ 7.27	+48 38 46.4	9.999183
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	+0 44 14.10	+ 7.27	+48 37 53.2	9.999180
Parma (Univ.-Stw.) Turm	—	+44 48 4.7	+0 12 16.01	+ 2.41	+44 36 34.1	9.999282
Perth West-Austr. . . .	60	—31 57 9.6	—6 49 46.94	—67.32	—31 46 50.2	9.999600
Petersburg (Akademie)	20	+59 56 29.7	—1 7 38.55	—11.11	+59 46 29.9	9.998915
Petersburg (Univers.) . .	4	+59 56 32.0	—1 7 36.5	—11.11	+59 46 32.2	9.998914
Philadelphia ⁶⁾	—	+39 57 7.5	+5 54 13.29	+58.19	+39 45 47.9	9.999404
Plonsk ⁷⁾	—	+52 37 40.0	—0 27 57.1	— 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	—0 1 48.16	— 0.30	+44 40 18.0	9.999282

1) Yale University. Alte Sternwarte 45°.8 südlich, 1°.58 westlich.

2) Herr B. Bischofsheim.

3) Dr. von Konkoly.

4) Flower Obs. (Univ. of Pennsylvania).

5) Chabot Observatory.

6) Herr von Unkrechtsberg.

7) Dr. Jedrzejewicz; 1898 nach Warschau verlegt.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Portsmouth	— ^m	+50° 48' 3"	+0° 57' 59.6 ^m	+ 9.53	+50° 36' 46"	9.999130
Potsdam (Astr. Phys. Obs.)	97	+52 22 56.0	+0 1 18.94	+ 0.22	+52 11 47.6	9.999098
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	+0 1 18.68	+ 0.22	+52 11 46.5	9.999098
Poughkeepsie	—	+41 41 18	+5 49 8.4	+57.36	+41 29 52	9.999360
Prag (Univ.-Stw.) Turm	197	+50 5 16.0	— 4 5.49	— 0.67	+49 53 55.8	9.999161
Prag (Safarik)	—	+50 4 24	— 0 4 13	— 0.69	+49 53 4	9.999148
Princeton N. J. (N. Stw.) ¹⁾	76	+40 20 55.8	+5 52 14.33	+57.86	+40 9 34.6	9.999399
Providence ²⁾	—	+41 49 46.4	+5 39 12.42	+55.72	+41 38 20.2	9.999357
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	— 1 7 43.78	— 11.13	+59 36 16.9	9.998922
Quebec Canada	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	— 0 14 0	+6 8 55	+60.60	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 0 42 53.31	— 7.04	+56 46 35	9.998981
Rio de Janeiro	63	— 22 54 23.7	+3 46 16.32	+37.17	— 22 46 9.7	9.999786
Rochester (Lewis Swift)	172	+43 9 16.8	+6 3 56.67	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	+0 3 39.44	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	+0 3 38.46	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	—	+41 54 16.8	+0 3 45.52	+ 0.62	+41 42 50.4	9.999355
Rousdon	157	+50 42 38	+1 5 33.7	+10.76	+50 31 21	9.999143
Rugby	—	+52 22 7	+0 58 36.8	+ 9.63	+52 10 59	9.999091
St. Louis Missouri	—	+38 38 3.6	+6 54 23.95	+68.08	+38 26 50.4	9.999437
San Fernando	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco ³⁾	—	+37 47 28.0	+9 3 17.61	+89.25	+37 36 19.7	9.999457
Santiago de Chile (N. St.)	—	— 33 26 42.0	+5 36 21.2	+55.24	— 33 16 7.6	9.999561
Santiago de Chile (A. St.)	619	— 33 26 25.4	+5 36 11.7	+55.22	— 33 15 51.0	9.999603
Scarborough	—	+54 16 30	+0 55 13.7	+ 9.07	+54 5 36	9.999045
Schwerin	—	+53 37 37.9	+0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg ⁴⁾	356	+50 56 5.2	+0 10 39.75	+ 1.75	+50 44 48.9	9.999151
South Hadley	—	+42 15 18.2	+5 43 55.18	+56.50	+42 3 50.9	9.999346
Speyer	—	+49 18 55.2	+0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm Mer. Kreis	44	+59 20 34.0	— 0 18 39.18	— 3.06	+59 10 27.2	9.998930
Stonyhurst	—	+53 50 40.0	+1 3 27.5	+10.42	+53 39 41.3	9.999055
Straßburg (Prov. Stw.)	161	+48 34 54.0	+0 22 32.43	+ 3.70	+48 23 28.5	9.999197
Straßburg (N. St.) M.-Kr. ⁵⁾	144	+48 35 0.2	+0 22 30.27	+ 3.70	+48 23 34.7	9.999196
Sydney	44	— 33 51 41.1	— 9 11 14.80	— 90.55	— 33 41 2.8	9.999555
Tacubaya ⁶⁾	2322	+19 24 17.5	+7 30 21.33	+73.98	+19 17 5.8	9.999999
Taschkent	457	+41 19 31.3	— 3 43 35.89	— 36.73	+41 8 6.6	9.999400

¹⁾ Alte Sternwarte 2"0 nördlich, 1° 94 östlich; 65^m.

²⁾ Seagrave; Ladd Observatory, 35" nördlich, 1° 57 östlich.

³⁾ Davidson Observatory.

⁴⁾ Alte Sternwarte, 1853 nach Gotha verlegt.

⁵⁾ Seit Anfang 1881.

⁶⁾ Seit März 1883, früher in Chapultepec.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Teramo (Coralli)	—	+42° 39' 27"	— 0° 1' 21"	— 0.22	+42° 27' 59"	9.999336
Tokio	—	+35 39 17.5	— 8 25 23.2	— 83.02	+35 28 24.0	9.999509
Toronto	—	+43 39 35.9	+ 6 11 9.49	+ 60.97	+43 28 6.1	9.999311
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	+ 0 51 36.3	+ 8.48	+40 37 51	9.999382
Toulouse	194	+43 36 45.3	+ 0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	— 0 1 28.10	— 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+ 5 48 19.4	+ 57.22	+42 32 24.6	9.999334
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	— 7 7 41.41	— 70.26	+35 53 14.6	9.999499
Tulse Hill (W. Huggins) .	53	+51 26 47.0	+ 0 54 2.5	+ 8.88	+51 15 33.3	9.999118
Turin Mer.-Kr.	270	+45 4 7.9	+ 0 22 47.65	+ 3.74	+44 52 37.3	9.999293
Twickenham (G. Bishop)	—	+51 27 4.2	+ 0 54 47.9	+ 9.00	+51 15 50.5	9.999114
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 0 16 55.33	— 2.78	+59 41 28.6	9.9998916
Urbana Ill.	—	+40 6 20.2	+ 6 46 28.77	+ 66.77	+39 55 0.0	9.999400
Utrecht	12	+52 5 9.5	+ 0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	+ 0 30 14.89	+ 4.97	+50 41 12.7	9.999128
Venedig	—	+45 25 49.5	+ 0 4 10.0	+ 0.68	+45 14 18.9	9.999266
Warschau Zentr. d. Stw.	110	+52 13 5.7	— 0 30 32.45	— 5.02	+52 1 56.3	9.999102
Warschau ¹⁾	—	+52 13 10	— 0 30 30	— 5.01	+52 2 1	9.999095
Washington (Alte Stw.)	31	+38 53 38.9	+ 6 1 46.93	+ 59.43	+38 42 24.3	9.999432
Washington (Neue Stw.)	—	+38 55 14.0	+ 6 1 50.60	+ 59.44	+38 44 0.1	9.999430
Washington (kath. Univ.)	—	+38 56 14.8	+ 6 1 34.8	+ 59.40	+38 45 0.0	9.999429
Wellington (Mt. Cook Obs.)	—	—41 18 0.6	—10 45 31.72	—106.05	—41 6 36.0	9.999370
West Point N. Y. (N. Stw.) ²⁾	—	+41 23 22	+ 5 49 25.4	+ 57.40	+41 11 57	9.999368
Whitestone (Field Obs.)	—	+40 47 21.6	+ 5 48 42.5	+ 57.28	+40 35 58.6	9.999383
Wien (Alte Sternw.)	167	+48 12 35.5	— 0 11 56.81	— 1.96	+48 1 8.9	9.999206
Wien (Josephstadt) ³⁾ . . .	214	+48 12 53.8	— 0 11 50.37	— 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.) Zentr.	240	+48 13 55.4	— 0 11 46.56	— 1.93	+48 2 28.9	9.999211
Wien (Ottakring) ⁴⁾	285	+48 12 46.7	— 0 11 36.17	— 1.91	+48 1 20.1	9.999215
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	— 0 11 51.45	— 1.95	+48 1 13.4	9.999195
Wien (Techn. Hochschule)	—	+48 11 58.5	— 0 11 54.91	— 1.96	+48 0 31.9	9.999196
Wilhelmshaven Mer. Kr.	9	+53 31 52.1	+ 0 20 59.74	+ 3.45	+53 20 51.2	9.999064
Williams-Bay Wisc. ⁵⁾	—	+42 34 12.6	+ 6 47 48.08	+ 66.99	+42 22 44.7	9.999338
Williamstown Mass.	—	+42 42 49	+ 5 46 28.3	+ 56.92	+42 31 21	9.999335
Williamstown Vict.	—	—37 52 7.2	— 8 46 3.3	— 86.42	—37 40 58.4	9.999455
Wilna Pass.-Instr.	122	+54 40 59.1	— 0 47 33.96	— 7.81	+54 30 6.8	9.999043
Windsor N. S. W. ⁶⁾	16	—33 36 30.8	— 9 9 45.97	— 90.31	—33 25 54.9	9.999559
Zürich	470	+47 22 40.0	+ 0 19 22.5	+ 3.18	+47 11 11.5	9.999248

1) Dr. Jedrzejewicz; seit 1898, früher in Plousk.

2) Seit 1883. Alte Sternwarte 9' nördlich, 1°.2 östlich.

3) von Oppolzers Sternwarte.

4) v. Kuffner.

5) Yerkes Observatory.

6) J. Tebbutt. Neue Sternwarte, 0°.4 südlich von der alten.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M			
	1907	Gr.								
1 Ceres	—	—	7.4	4.0	1906 Dez. 12.0	d. Ep.	293° 58'	20.5	68° 29'	43.8
2 Pallas	—	—	8.0	4.5	1906 Okt. 9.0	d. Ep.	278 41	58.1	309 6	37.2
3 Juno	Mai 3	9.9	8.7	5.5	1907 April 19.0	d. Ep.	151 17	10.7	244 30	0.5
4 Vesta	—	—	6.5	4.0	1906 Sept. 7.0	d. Ep.	85 44	35.3	147 50	27.5
5 Astraea . . .	Nov. 24	9.5	9.9	6.9	1898 Sept. 11.0	1910.0	224 4	1.2	353 28	9.3
6 Hebe	Mai 6	9.4	8.5	5.8	1900 Juli 3.0	1910.0	284 20	20.1	236 56	30.6
7 Iris	—	—	8.4	5.8	1900 Jan. 0.0 ^{*)}	1900.0	9 5	20.1	141 31	26.9
8 Flora	Jan. 13	8.6	8.9	6.8	1848 Jan. 1.0 ^{*)}	d. Ep.	35 52	49.3	282 38	15.6
9 Metis	Mai 6	9.4	8.9	6.3	1858 Juni 30.0	d. Ep.	57 4	34.7	2 32	16.9
10 Hygiea . . .	Okt. 18	10.0	9.5	5.4	1898 Dez. 20.0	1910.0	291 20	17.9	308 57	0.0
11 Parthenope .	März 4	9.8	9.3	6.5	1901 Okt. 26.0	1910.0	65 58	42.7	193 25	55.1
12 Victoria . . .	Sept. 2	8.4	9.7	7.2	1851 Jan. 0.0 ^{*)}	d. Ep.	66 2	39.9	66 4	43.3
13 Egeria	Juli 31	10.3	9.7	6.7	1850 Jan. 0.0 ^{*)}	d. Ep.	210 46	34.3	76 58	23.7
14 Irene	Nov. 16	10.1	9.7	6.6	1898 Okt. 1.0	1910.0	180 47	34.9	92 3	45.6
15 Eunomia . . .	Juli 16	8.5	8.6	5.4	1854 Jan. 0.0 ^{*)}	d. Ep.	122 5	31.5	93 59	46.0
16 Psyche	Febr. 24	10.1	9.6	5.9	1899 Juli 27.0	1910.0	301 1	33.0	226 3	57.4
17 Thetis	Juni 27	9.2	10.1	7.3	1907 Juli 7.0	1910.0	11 3	23.0	138 15	22.6
18 Melpomene .	April 19	10.4	9.3	6.9	1854 Jan. 0.0 ^{*)}	d. Ep.	80 4	37.0	225 1	41.3
19 Fortuna	—	—	9.8	7.1	1906 Nov. 29.0	1910.0	35 11	32.6	180 8	19.8
20 Massalia . . .	Juni 4	9.8	9.2	6.5	1899 März 29.0	1910.0	76 24	22.5	253 47	7.4
21 Lutetia . . .	Jan. 31	10.9	10.1	7.4	1853 Jan. 2.0 ^{*)}	1852.0	74 20	5.1	246 36	10.2
22 Kalliope . . .	—	—	9.8	6.1	1898 Okt. 1.0	1910.0	96 34	37.0	351 57	0.4
23 Thalia	Okt. 9	10.7	10.5	7.3	1900 Jan. 3.0	1910.0	337 2	2.1	56 0	12.2
24 Themis	Dez. 41	10.1	10.8	6.7	1905 Juni 27.0	1900.0	170 16	40.3	105 42	2.7
25 Phocaea . . .	—	—	10.5	7.9	1898 Aug. 2.0	1910.0	7 21	33.6	88 49	22.7
26 Proserpina .	Dez. 9	11.0	10.5	7.3	1907 Nov. 24.0	1910.0	200 36	18.4	190 20	28.1
27 Euterpe	Nov. 27	8.6	9.7	7.2	1873 Jan. 5.0 ^{*)}	1870.0	90 32	27.0	354 8	6.0
28 Bellona	Sept. 13	10.6	10.1	6.6	1907 Sept. 5.0	1910.0	233 47	45.8	340 50	11.7
29 Amphitrite .	März 27	9.4	9.0	6.1	1855 Jan. 0.0 ^{*)}	1870.0	198 1	40.2	59 42	14.8
30 Urania	Febr. 5	10.1	9.9	7.4	1890 Juni 5.0	1910.0	239 51	48.5	83 41	38.7
31 Euphrosyne .	Mai 2	11.5	11.0	6.8	1899 Okt. 15.0	1910.0	327 7	12.3	60 23	44.4
32 Pomona	Juli 12	10.0	10.6	7.5	1855 Jan. 5.0 ^{*)}	d. Ep.	223 54	39.3	332 38	53.4
33 Polyhymnia .	Juli 24	9.8	11.8	8.2	1900 Jan. 0.0	1910.0	137 40	57.3	334 11	19.2
34 Circe	—	—	11.5	8.2	1897 Dez. 5.0	1910.0	288 24	37.6	326 54	50.4
35 Leukothea . .	April 8	10.8	12.2	8.3	1907 März 29.0	1910.0	354 29	41.0	209 43	22.4
36 Atalante . . .	Febr. 26	12.1	12.0	8.6	1899 Mai 8.0	1910.0	179 27	12.1	44 26	46.7
37 Fides	Dez. 13	9.3	10.4	7.2	1907 Dez. 14.0	1910.0	9 8	54.4	60 2	51.1
38 Leda	Mai 23	11.9	11.4	8.0	1897 Febr. 8.0	1910.0	31 52	32.7	166 10	19.4
39 Laetitia . . .	April 1	10.0	9.5	6.0	1897 Jan. 19.0	1910.0	111 43	50.9	205 28	15.6
40 Harmonia . .	März 12	9.5	9.2	6.9	1863 Jan. 0.0 ^{*)}	d. Ep.	186 48	19.4	267 19	12.8

*) Mittlere Elemente.

δ	i	φ	μ	Log. a	Autorität
80° 43' 24.1	10° 37' 18.6	4° 30' 22.1	770.3716	0.4422042	Godward.
172 52 46.4	34 42 1.6	13 50 15.4	769.4763	0.4425409	Farley.
170 48 9.2	13 1 25.9	14 56 7.5	814.0975	0.4262201	Hind.
103 33 47.4	7 8 8.0	5 10 18.5	978.1034	0.3730812	Farley.
141 39 24.5	5 20 3.2	11 1 8.5	858.1895	0.4109489	Farley.
138 47 54.7	14 47 59.3	11 35 3.1	939.1860	0.3848366	R. Luther.
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Riem.
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Downing.
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser.
285 58 13.6	3 48 51.6	6 53 27.8	639.1669	0.4962615	E. Becker.
125 23 31.9	4 37 51.4	5 44 1.0	923.9058	0.3895859	R. Luther.
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681705	Brünnow.
43 11 34.5	16 32 24.6	4 59 47.3	857.9451	0.4110315	Hansen.
87 5 6.2	9 7 32.0	9 20 51.3	851.4287	0.4132389	Maywald.
293 52 14.5	11 44 17.4	10 47 32.2	825.4550	0.4222087	Schubert.
150 39 24.8	3 4 25.9	7 50 18.3	710.5554	0.4656058	Schubert.
125 11 7.2	5 36 37.9	7 41 45.4	913.28771	0.3929327	Maywald.
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609036	Schubert.
211 18 47.1	1 32 58.2	9 5 44.8	929.32929	0.3878913	Berberich.
206 49 40.3	0 41 7.9	8 17 46.2	949.0005	0.3818268	Küstner.
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser.
66 41 31.2	13 43 38.1	5 38 34.5	714.4288	0.4640317	Berberich.
67 58 18.4	10 13 3.3	13 32 59.4	833.5369	0.4193879	Schubert.
35 37 12.3	0 48 2.2	7 49 43.5	641.70063	0.4951161	Krueger.
214 22 20.9	21 36 40.9	14 39 21.4	954.0992	0.3802754	Berberich.
45 58 20.6	3 35 2.2	5 1 11.1	819.99230	0.4241312	P. Neugebauer.
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Hoppe.
144 41 20.9	9 23 12.4	8 41 34.8	766.66619	0.4436003	v. d. Groeben.
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	E. Becker.
308 25 1.9	2 6 2.7	7 21 5.1	975.3144	0.3739080	Günther.
31 53 23.2	26 28 7.0	12 52 34.7	635.0803	0.4981187	Schubert.
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser.
9 15 35.3	1 55 20.3	19 41 13.8	731.7057	0.4571134	Newcomb.
184 58 12.9	5 27 21.7	6 4 35.9	805.6011	0.4292575	Auwers.
355 10 42.4	8 4 44.2	12 46 38.0	684.16263	0.4765639	Tietjen.
359 15 7.6	18 39 44.0	17 26 19.0	777.3458	0.4395950	Schubert.
7 57 40.9	3 6 10.8	10 6 14.4	826.23447	0.4219355	R. Luther.
296 37 59.5	6 57 55.1	8 53 45.4	781.8518	0.4379215	Berberich.
157 33 8.6	10 22 6.9	6 23 16.8	769.6407	0.4424791	Tietjen.
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555006	Schubert.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		°
	1907	Gr.							
41 Daphne . . .	Mai 23	8.8	10.5	7.0	1897 Okt. 6.0	1910.0	338° 8' 41.4	41° 50' 23.8	
42 Isis	—	—	10.4	7.7	1906 Sept. 10.0	1910.0	17 24 40.0	234 6 2.8	
43 Ariadne . . .	Nov. 8	10.5	10.0	7.9	1897 Okt. 6.0	1910.0	80 15 48.4	13 58 23.0	
44 Nysa	Aug. 22	10.4	9.8	7.1	1891 April 1.0	1910.0	101 29 32.1	340 33 5.3	
45 Eugenia . . .	Aug. 19	10.6	10.7	7.3	1890 Nov. 12.0	1910.0	180 7 31.7	82 43 5.7	
46 Hestia	—	—	10.6	7.7	1906 Dez. 19.0	1910.0	74 16 5.5	173 15 37.2	
47 Aglaja	Dez. 34	11.7	11.2	7.5	1907 Dez. 14.0	1910.0	134 26 36.1	310 21 48.2	
48 Doris	Okt. 22	10.7	10.9	6.8	1890 Sept. 13.0	1910.0	277 3 7.4	251 36 27.2	
49 Pales	—	—	11.0	7.0	1898 März 15.0	1910.0	133 1 8.6	104 17 27.1	
50 Virginia . . .	März 27	13.1	11.7	8.5	1890 April 6.0	1910.0	193 9 42.2	196 47 34.7	
51 Nemausa . . .	Nov. 5	10.1	9.8	7.3	1889 Nov. 17.0	1910.0	254 26 43.1	358 30 22.4	
52 Europa	Febr. 21	9.8	10.3	6.2	1891 April 1.0	1910.0	65 39 33.0	335 59 4.0	
53 Kalypso . . .	Okt. 27	10.8	11.5	8.4	1907 Nov. 24.0	1910.0	322 51 18.9	311 0 46.6	
54 Alexandra . .	Aug. 5	9.6	10.9	7.6	1884 Aug. 15.0	1910.0	316 55 13.5	341 53 36.7	
55 Pandora . . .	April 26	11.5	10.8	7.4	1885 Jan. 22.0	1910.0	263 33 12.6	0 46 56.4	
56 Melete	Juli 14	9.7	11.3	8.2	1900 Dez. 30.0	1910.0	157 16 2.5	101 6 0.1	
57 Mnemosyne	April 8	11.1	10.7	6.5	1907 März 29.0	1910.0	141 28 15.1	207 37 6.0	
58 Concordia . .	Dez. 23	11.6	11.6	8.3	1865 Jan. 7.0 ^{*)}	d. Ep.	21 24 4.2	27 50 14.7	
59 Elpis	Febr. 25	11.4	10.9	7.6	1865 Jan. 7.0	1910.0	334 18 57.1	207 58 24.0	
60 Echo	Mai 23	11.8	11.1	8.5	1897 Okt. 6.0	1910.0	272 15 22.3	267 57 40.8	
61 Danaë	Nov. 10	10.6	11.0	7.1	1900 April 14.0	1910.0	244 20 50.4	8 27 28.4	
62 Erato	März 17	12.9	12.3	8.2	1877 Sept. 21.0	1910.0	358 43 44.3	273 18 12.0	
63 Ansonia . . .	Okt. 31	10.3	9.9	7.3	1898 Febr. 3.0	1910.0	250 44 8.5	292 55 12.7	
64 Angelina . . .	Okt. 1	10.7	10.5	7.2	1898 Okt. 1.0	1910.0	239 38 51.2	173 35 10.2	
65 Cybele	Aug. 2	10.7	11.0	6.4	1907 Juli 27.0	1910.0	44 50 27.7	96 15 6.6	
66 Maja	—	—	12.2	9.0	1897 Juli 18.0	1910.0	277 24 16.1	40 10 30.9	
67 Asia	Okt. 29	11.0	11.2	8.5	1897 Dez. 5.0	1910.0	201 20 50.1	103 20 15.8	
68 Leto	März 31	11.3	10.5	7.0	1907 April 18.0	1910.0	213 32 0.4	301 36 21.3	
69 Hesperia . . .	Jan. 18	9.7	10.7	6.8	1889 Jan. 1.0	1910.0	182 52 57.9	284 43 32.6	
70 Panopaea . . .	März 16	11.5	10.9	7.8	1890 Dez. 22.0	1910.0	305 21 16.5	252 49 41.9	
71 Niobe	Sept. 10	11.3	10.7	7.3	1907 Sept. 25.0	1910.0	121 5 28.1	265 26 13.0	
72 Feronia . . .	Dez. 31	11.8	11.2	8.9	1897 Dez. 25.0	1910.0	166 4 16.3	100 27 8.7	
73 Klytia	Aug. 24	12.0	12.0	8.8	1898 Aug. 2.0	1910.0	244 29 53.1	52 42 38.5	
74 Galatea . . .	April 22	12.8	11.8	8.3	1897 Febr. 28.0	1910.0	148 4 45.2	170 59 36.6	
75 Eurydike . . .	—	—	11.6	8.4	1897 Okt. 26.0	1910.0	32 23 13.9	335 34 7.7	
76 Freia	—	—	12.0	7.4	1906 Okt. 20.0	1910.0	311 43 17.5	236 20 15.7	
77 Frigga	—	—	11.1	7.9	1897 Okt. 6.0	1910.0	331 13 52.7	56 51 43.2	
78 Diana	Aug. 15	11.6	10.6	7.5	1899 Sept. 6.0	1910.0	253 25 1.6	148 55 16.3	
79 Eurynome . . .	März 13	11.0	10.5	7.8	1907 März 9.0	1910.0	107 43 42.6	198 38 4.7	
80 Sappho	—	—	10.6	8.2	1896 Okt. 11.0	1910.0	19 11 20.2	136 54 7.7	

*) Mittlere Elemente.

Ω	i	φ	μ	Log. a	Autorität
179° 2' 48.7	15° 55' 33.5	15° 26' 36.4	770.4586	0.4421715	Berberich.
84 27 15.8	8 33 51.8	12 47 42.4	929.49635	0.3878393	L. Becker.
264 53 57.0	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prey.
131 22 43.4	3 42 0.7	8 48 10.9	941.7363	0.3840515	Powalky.
148 15 53.9	6 35 18.5	4 44 11.6	791.0695	0.4345280	Richter.
181 27 12.5	2 17 27.4	9 31 43.8	883.37283	0.4025751	Karlinski.
4 0 40.4	5 0 6.0	7 30 27.7	725.23491	0.4596853	P. Neugebauer.
184 50 59.0	6 30 23.4	3 30 16.7	645.5014	0.4934063	Powalky.
289 50 20.8	3 8 28.3	12 52 28.4	648.4530	0.4920854	Powalky.
173 55 41.5	2 48 27.0	16 45 58.0	823.5561	0.4228757	Powalky.
176 1 8.9	9 57 11.5	3 51 23.3	975.1593	0.3739540	Berberich.
129 57 19.4	7 26 14.9	6 31 44.8	651.8134	0.4905889	Murmann.
143 54 16.0	5 8 9.6	11 47 23.2	837.69238	0.4179481	Tietjen.
314 2 22.8	11 47 37.5	11 31 49.2	795.5362	0.4328978	Schultz.
11 13 41.5	7 13 26.0	8 18 56.3	774.4612	0.4406713	A. Moeller.
194 10 59.0	8 3 9.4	13 24 5.5	846.1114	0.4150527	R. Luther.
200 5 43.7	15 11 18.7	6 43 32.2	635.03963	0.4981305	Adolph.
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer.
170 58 0.1	8 36 53.1	6 44 2.7	793.9788	0.4334651	Oppolzer.
192 2 8.5	3 35 2.2	10 34 22.7	958.2244	0.3790263	C. H. F. Peters.
334 23 28.2	18 15 3.1	9 29 23.8	688.3554	0.4747959	R. Luther.
126 6 30.1	2 12 15.4	10 6 47.4	642.5659	0.4947260	Oppolzer.
338 6 39.1	5 47 15.9	7 17 58.7	957.1671	0.3793459	Tietjen.
311 1 40.8	1 19 37.6	7 17 59.7	807.9036	0.4284314	Oppolzer.
158 50 34.5	3 28 48.7	5 42 51.9	556.69895	0.5362575	Fritsche.
8 25 31.5	3 5 3.2	10 3 43.4	824.3940	0.422582	Maywald.
203 4 10.5	5 59 10.5	10 47 54.5	942.3560	0.3838611	Frischauf.
44 46 37.8	7 58 33.6	10 46 48.5	765.40492	0.4440753	Th. Wolff.
186 49 25.9	8 29 47.6	9 39 2.0	689.6731	0.4742422	Kowalczyk.
48 23 54.9	11 38 23.5	10 22 15.9	838.9960	0.4174978	Richter.
316 25 26.3	23 17 7.9	10 9 15.0	776.36314	0.4399611	P. Neugebauer.
208 2 57.2	5 23 52.3	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters.
7 43 24.2	2 24 17.7	2 34 3.9	816.0117	0.4255401	Powalky.
197 53 4.9	4 0 22.1	13 43 0.6	764.6230	0.4443728	Maywald.
0 6 45.0	4 59 55.9	17 45 42.2	812.4299	0.4268137	Stockwell.
212 19 39.8	2 2 48.7	9 49 47.1	563.86697	0.5325532	Murmann.
2 12 17.7	2 27 34.5	7 38 43.5	813.8298	0.4263153	Plath.
334 0 6.3	8 41 23.1	12 5 4.7	837.1977	0.4181191	v. Dubjago.
206 39 53.1	4 35 56.6	11 2 31.9	928.65986	0.3881000	Lachmann.
218 49 35.1	8 37 17.6	11 34 29.9	1020.1089	0.3609067	P. V. Neugebauer.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M	e
	1907	Gr.						
81 Terpsichore	Aug. 13	11.6	11.8	8.2	1897 Juli 18.0	1910.0	260° 37' 9.1	46° 14' 50.5
82 Alkmene . .	März 19	10.1	11.2	7.8	1907 März 9.0	1910.0	26 30 39.6	106 30 40.5
83 Beatrix . . .	Mai 31	11.0	11.3	8.6	1891 Jan. 11.0	1910.0	295 16 6.4	163 24 40.4
84 Klio	Febr. 5	12.4	11.3	8.8	1907 Jan. 28.0	1910.0	139 14 5.8	12 53 41.0
85 Io	April 7	11.4	10.9	7.7	1889 Febr. 10.0	1910.0	180 9 35.1	120 16 17.9
86 Semele . . .	Mai 10	13.3	12.4	8.3	1896 Mai 4.0	1910.0	203 38 25.9	300 25 58.4
87 Sylvia . . .	Okt. 28	11.6	11.9	7.2	1898 April 24.0	1910.0	236 42 47.7	265 34 33.5
88 Thisbe . . .	Mai 18	10.4	10.8	7.4	1889 Dez. 27.0	1910.0	24 33 30.8	30 50 45.1
89 Julia	Sept. 18	9.0	10.1	7.1	1889 Dez. 27.0	1910.0	237 15 2.3	42 50 18.7
90 Antiope . .	—	—	11.6	7.5	1906 Nov. 29.0	1910.0	111 54 2.7	233 25 6.3
91 Aegina . . .	Aug. 6	11.6	10.8	7.7	1897 Febr. 8.0	1910.0	54 32 6.9	71 55 32.8
92 Undina . . .	Aug. 26	10.4	10.9	6.7	1904 Febr. 13.0	1900.0	142 28 50.2	220 34 12.4
93 Minerva . .	April 8	10.5	10.8	7.4	1897 Jan. 19.0	1910.0	213 22 8.2	270 52 4.5
94 Aurora . . .	Nov. 30	10.9	11.3	7.1	1883 Juli 12.0	1910.0	256 3 4.3	45 22 37.9
95 Arethusa . .	März 11	11.9	11.3	7.3	1907 März 9.0	1910.0	130 21 58.7	148 46 44.7
96 Aegle . . .	Juli 26	11.8	11.4	7.4	1897 Sept. 16.0	1910.0	182 59 36.0	200 34 30.1
97 Klotho . . .	Febr. 11	10.0	10.6	7.4	1898 Jan. 14.0	1910.0	21 4 31.9	264 36 8.8
98 Ianthe . . .	—	—	12.7	9.4	1894 Jan. 15.0	1910.0	331 2 34.3	154 49 36.4
99 Dike	—	—	14	10.5	1868 Juni 5.0	1910.0	350 36 11	198 52 56
100 Hekate . . .	Nov. 17	12.0	11.9	7.8	1898 Jan. 14.0	1910.0	156 19 38.0	176 49 53.2
101 Helena . . .	—	—	10.7	7.6	1897 Aug. 27.0	1910.0	8 56 38.1	343 58 24.2
102 Miriam . . .	Sept. 20	10.8	12.6	9.4	1898 Juli 13.0	1910.0	319 11 42.8	143 38 29.9
103 Hera	Mai 21	10.1	10.2	6.9	1897 Febr. 8.0	1910.0	173 11 18.9	185 58 53.7
104 Klymene . .	Sept. 9	11.9	12.2	8.0	1897 Dez. 25.0	1910.0	35 9 54.6	20 0 49.1
105 Artemis . .	Febr. 9	11.2	11.1	8.5	1897 Aug. 27.0	1910.0	69 55 41.8	54 43 26.1
106 Dione . . .	Aug. 15	10.9	11.3	7.2	1907 Aug. 16.0	1910.0	308 46 15.8	324 36 58.2
107 Camilla . .	Okt. 27	11.1	11.2	6.5	1891 April 21.0	1910.0	97 7 57.4	293 57 59.6
108 Hecuba . . .	Dez. 6	11.6	11.7	7.4	1907 Nov. 24.0	1910.0	278 2 34.3	173 54 12.2
109 Felicitas . .	April 28	13.3	12.0	8.7	1898 Jan. 14.0	1910.0	115 33 32.5	52 23 6.6
110 Lydia . . .	Juni 17	10.3	10.5	7.1	1901 Febr. 13.0	1910.0	150 32 10.1	281 13 26.2
111 Ate	Juni 21	11.8	11.3	8.2	1890 Jan. 16.0	1910.0	91 26 4.4	163 34 48.8
112 Iphigenia .	April 28	11.8	11.5	8.8	1897 Dez. 25.0	1910.0	88 12 11.4	14 7 51.7
113 Amalthea .	—	—	11.0	8.4	1907 Dez. 24.0	1910.0	354 41 26.5	76 13 30.4
114 Cassandra .	Nov. 4	11.3	11.1	7.8	1889 Sept. 18.0	1910.0	211 30 3.4	348 48 30.0
115 Thyra . . .	Mai 19	11.3	10.4	7.8	1897 Okt. 6.0	1910.0	340 57 26.1	94 2 38.0
116 Sirona . . .	Juli 21	11.3	10.7	7.3	1889 Juni 10.0	1910.0	158 3 13.7	89 6 38.1
117 Lomia . . .	Sept. 1	11.3	11.4	7.5	1897 Okt. 6.0	1910.0	332 35 55.4	48 38 20.1
118 Peitho . . .	Juni 1	11.7	10.8	8.1	1907 Juni 17.0	1910.0	173 22 34.0	31 0 9.8
119 Althaea . .	Nov. 26	11.2	10.6	7.5	1898 Aug. 2.0	1910.0	314 33 34.0	168 34 50.1
120 Lachesis . .	Sept. 15	11.9	11.7	7.6	1897 Nov. 15.0	1910.0	202 19 20.3	238 31 10.8

Ω	i	φ	μ	Log. a	Autorität
2° 34' 20.8	7° 55' 5.5	12° 11' 52.3	736.4126	0.4552569	Maywald.
26 35 21.5	2 51 4.3	12 46 14.8	772.73766	0.4413163	W. Luther.
27 47 22.4	4 59 49.4	4 51 24.3	935.9122	0.3858476	E. Becker.
327 32 28.1	9 21 54.4	13 42 16.7	977.36230	0.3733017	P. Neugebauer.
203 55 21.1	11 53 47.5	11 10 33.7	821.0524	0.4237571	v. d. Groeben.
88 2 1.0	4 47 35.9	12 46 53.6	650.4530	0.4911939	Riem.
75 15 57.6	10 53 1.7	5 26 44.5	545.3288	0.5422321	v. d. Groeben.
277 51 59.5	5 14 54.8	9 26 6.4	771.1774	0.4419015	Kowalczyk.
312 0 55.5	16 12 32.0	10 33 29.3	871.5645	0.4064714	Th. Wolff.
71 18 25.3	2 16 13.2	8 50 9.7	632.21886	0.4994261	Maywald.
11 4 13.0	2 8 25.1	6 7 10.0	850.8763	0.4134268	Heuer.
102 50 42.0	9 56 23.7	5 22 41.6	622.67957	0.5038280	Anderson.
5 4 31.2	8 35 28.0	8 1 55.7	775.6316	0.4402341	P. Lehmann.
4 33 17.4	8 4 18.6	4 44 18.3	630.6584	0.5001416	Leppig.
244 6 19.0	12 55 58.7	8 55 16.8	661.81827	0.4861786	Schur.
322 47 10.3	16 2 24.5	7 39 35.3	663.1502	0.4855965	Schulhof.
160 57 9.4	11 45 29.3	14 51 9.7	813.5778	0.4264050	Maywald.
354 27 5.1	15 33 47.6	10 49 11.3	805.3086	0.4293629	Riem.
42 17 51	13 53 30	13 47 30	758.662	0.44664	Loewy u. Tisserand.
128 26 39.4	6 23 7.5	9 31 58.5	653.5823	0.4898043	Stark.
343 42 52.6	10 10 32.8	8 1 10.2	854.8620	0.4120737	v. d. Groeben.
211 39 13.0	5 5 24.5	14 44 31.2	817.8380	0.4248929	C. H. F. Peters.
136 26 1.5	5 24 33.0	4 30 21.3	798.0990	0.4319665	Leveau.
43 13 29.2	2 52 54.6	8 32 48.6	632.5948	0.4992540	Berberich.
188 14 55.0	21 30 55.0	10 6 59.0	970.4600	0.3753527	A. Leman.
63 12 24.3	4 35 55.2	9 16 42.2	625.30194	0.5026113	Berberich.
176 14 1.0	9 51 39.6	3 56 39.0	544.1827	0.5428412	Matthiessen.
352 29 17.6	4 23 37.0	6 3 35.2	618.05621	0.5059858	Schulhof.
4 42 21.8	8 1 1.3	17 12 53.0	799.9088	0.4313108	v. d. Groeben.
57 14 3.9	5 59 12.9	4 32 38.7	785.37505	0.436620	Sternberg.
306 39 51.1	4 56 20.2	5 58 35.2	849.9712	0.4137349	Holetschek.
324 13 23.0	2 37 9.3	7 25 29.0	934.8048	0.3861905	Tietjen.
123 19 3.3	5 2 18.5	4 59 30.2	969.06431	0.3757693	W. Luther.
164 40 55.6	4 53 53.8	7 55 32.6	810.5220	0.4274945	Anton.
309 19 50.6	11 35 36.3	11 5 7.8	966.3219	0.3765898	Watson.
64 42 11.5	3 35 10.3	8 3 59.9	770.3736	0.442203	H. Oppenheim.
349 41 19.0	14 56 21.2	1 31 51.9	685.2178	0.4761187	Tietjen.
47 42 5.8	7 46 29.5	9 23 50.2	932.37927	0.3869428	Holetschek.
203 58 4.8	5 44 15.8	4 42 49.9	855.7364	0.4117777	Berberich.
342 45 48.8	7 0 16.6	3 30 1.0	645.4399	0.4934339	Plath.

Nr. und Name	Opposition		m. g		Epoche und Oskulation	Mittl. Äqu.	M		
	1907	Gr.							
121 Hermione . .	—	—	11.2	6.6	1906 Okt. 20.0	1910.0	30° 5' 34.8"	280° 44'	33.1
122 Gerda	Sept. 12	11.7	11.5	7.2	1907 Sept. 25.0	1910.0	158 5 46.5	11 55	9.3
123 Brunhild . .	Juli 12	12.3	11.8	8.5	1898 Juni 23.0	1910.0	210 35 25.0	122 14	17.1
124 Alkeste . . .	Nov. 25	10.7	10.3	7.1	1890 Dez. 2.0	1910.0	180 26 7.9	58 14	32.3
125 Liberatrix . .	April 9	11.1	11.2	7.8	1897 Jan. 19.0	1910.0	202 46 5.6	104 32	55.5
126 Velleda . . .	—	—	11.5	8.8	1899 Dez. 15.0	1910.0	81 58 56.5	325 47	25.0
127 Johanna . . .	Juni 1	10.7	10.5	7.1	1890 Okt. 3.0	1910.0	251 23 46.9	90 26	21.5
128 Nemesis . . .	Mai 28	11.0	10.6	7.2	1897 Jan. 19.0	1910.0	144 20 2.3	300 34	0.1
129 Antigone . . .	Febr. 6	10.3	10.3	6.6	1897 Jan. 19.0	1910.0	253 10 0.2	103 42	26.3
130 Elektra . . .	April 18	11.7	10.6	6.5	1898 Aug. 22.0	1910.0	337 5 55.3	233 46	1.6
131 Vala	Mai 8	11.8	12.2	9.5	1898 Dez. 20.0	1910.0	288 37 28.9	155 56	24.1
132 Aethra	—	—	10.9	8.0	1895 Nov. 30.5	1910.0	330 47 37.2	252 14	56.3
133 Cyrene	Dez. 37	11.8	11.3	7.3	1898 Jan. 14.0	1910.0	280 4 53.4	283 57	33.7
134 Sophrosyne . .	—	—	11.1	8.1	1906 Nov. 9.0	1910.0	330 48 22.1	82 50	4.6
135 Hertha	—	—	10.5	7.8	1898 Okt. 1.0	1910.0	33 3 56.2	337 7	56.5
136 Austria	—	—	11.2	8.9	1898 März 15.0	1910.0	211 14 20.2	130 28	54.5
137 Meliboea . . .	April 4	12.0	11.8	7.7	1898 Nov. 10.0	1910.0	80 12 0.8	105 35	51.7
138 Tolosa	—	—	11.8	9.1	1896 Febr. 14.0	1910.0	190 23 49.0	258 3	38.4
139 Juewa	Nov. 19	11.0	10.9	7.4	1898 Nov. 30.0	1910.0	299 0 11.9	162 8	50.1
140 Siwa	—	—	11.4	8.0	1898 Okt. 1.0	1910.0	173 35 23.3	193 12	17.2
141 Lumen	Juni 10	11.7	11.4	8.2	1890 Aug. 24.0	1910.0	321 2 54.7	54 13	35.4
142 Polana	Okt. 29	12.9	12.2	9.5	1896 Dez. 10.0	1910.0	211 12 47.7	289 58	40.0
143 Adria	Febr. 7	12.4	12.4	9.0	1891 Okt. 18.0	1910.0	160 45 41.3	248 47	46.1
144 Vibilia	—	—	10.7	7.5	1888 Juli 18.0	1910.0	289 54 28.9	290 45	10.7
145 Adeona	Okt. 14	11.5	11.3	8.1	1898 Aug. 22.0	1910.0	240 12 41.7	40 33	3.5
146 Lucina	Aug. 27	11.1	11.1	7.7	1898 Aug. 2.0	1910.0	89 1 10.2	140 57	30.7
147 Protogeneia . .	April 7	12.7	12.5	8.4	1898 Sept. 11.0	1910.0	348 52 58.8	122 45	45.9
148 Gallia	Juli 23	10.9	11.0	7.5	1907 Juli 7.0	1910.0	281 57 17.4	250 37	20.1
149 Medusa	Aug. 31	11.9	12.9	10.0	1907 Aug. 16.0	1910.0	291 13 25.9	249 38	29.1
150 Nuwa	—	—	11.6	7.7	1893 März 1.0	1910.0	155 36 25.8	146 41	42.7
151 Abundantia . .	Juni 11	12.8	11.9	8.8	1898 März 15.0	1910.0	9 18 20.9	130 21	2.4
152 Atala	Juli 19	12.6	12.2	8.1	1899 Jan. 29.0	1910.0	27 31 7.9	42 37	0.7
153 Hilda	Dez. 1	13.2	12.6	7.3	1907 Dez. 14.0	1910.0	133 46 0.4	55 12	28.1
154 Bertha	Mai 19	10.8	12.2	7.0	1907 Mai 8.0	1910.0	32 3 48.8	164 4	49.8
155 Scylla	—	—	13.5	9.8	1875 Nov. 8.5	1910.0	339 4 47	39 9	5.7
156 Xanthippe . . .	Dez. 9	12.1	11.3	7.9	1903 Jan. 29.0	1900.0	210 16 9.4	334 33	43.4
157 Dejanira	Juli 31	14.6	13.7	10.6	1904 Nov. 17.5	1904.0	330 35 43.9	45 39	12.1
158 Koronis	Juni 21	12.6	12.3	8.7	1898 Aug. 22.0	1910.0	278 50 53.8	138 43	15.9
159 Aemilia	Sept. 6	12.5	12.3	8.2	1897 Dez. 5.0	1910.0	324 40 17.3	331 52	54.3
160 Una	—	—	11.8	8.4	1897 Dez. 25.0	1910.0	33 30 8.8	46 47	30.1

Ω	i	φ	μ	Log. a	Autorität
76° 47' 37.2	7° 34' 59.1	8° 0' 25.5	555.90415	0.5366711	Berberich.
178 45 57.4	1 36 31.3	3 3 49.9	615.36821	0.5072477	Lange.
308 38 28.5	6 25 27.6	7 1 21.7	802.5894	0.4303421	Berberich.
188 37 15.4	2 55 29.2	4 27 41.2	832.2976	0.4198186	Hall sen.
169 36 18.8	4 37 57.0	4 29 45.0	780.9349	0.4382611	Lange.
23 27 7.7	2 56 26.5	6 3 52.3	931.5192	0.3872099	Heuer.
31 53 43.8	8 15 42.7	3 47 29.9	775.8987	0.4401344	Maywald.
76 45 7.8	6 15 8.3	7 13 52.8	778.9624	0.4389934	de Ball.
137 58 12.8	12 10 1.8	12 15 18.0	730.5585	0.4575677	Austin.
146 16 41.6	22 58 1.8	12 29 21.9	646.4298	0.4929901	Powalky.
65 37 21.8	4 57 47.1	3 51 52.5	935.8550	0.3858654	Berberich.
260 11 30.0	23 32 20.0	19 21 13.8	903.6882	0.3959920	W. Luther.
321 25 52.7	7 13 50.2	8 2 47.1	662.6045	0.4858348	v. d. Groeben.
346 16 0.5	11 36 35.4	6 40 52.2	864.75211	0.4087433	Maywald.
344 13 36.6	2 18 34.4	11 45 17.6	937.0637	0.3854917	Maywald.
186 20 58.5	9 33 12.0	4 52 0.8	1025.7532	0.3593092	H. Oppenheim.
203 47 40.2	13 21 7.8	12 46 22.0	645.4607	0.4934245	Lange.
54 53 56.5	3 13 22.0	9 16 35.8	924.9117	0.3892709	v. d. Groeben.
2 33 1.8	10 55 19.7	9 57 48.4	764.0768	0.4445797	Berberich.
107 14 12.9	3 11 29.4	12 31 19.9	786.6737	0.4361413	v. d. Groeben.
319 28 26.5	11 58 39.3	12 16 57.4	814.6615	0.4260196	Berberich.
292 1 39.9	2 14 29.1	7 44 10.6	943.5246	0.3835023	L. Becker.
333 54 46.0	11 30 13.3	4 8 20.2	773.3958	0.4410699	von Haerdtl.
77 1 15.3	4 48 16.9	13 28 14.3	819.4849	0.4243104	Powalky.
77 55 52.9	12 41 10.3	8 24 20.6	812.2212	0.4268882	Tietjen.
84 26 43.8	13 5 8.8	3 39 14.6	791.4186	0.4344003	Berberich.
251 21 33.7	1 54 15.5	2 2 8.6	638.8069	0.4964247	L. Becker.
145 16 22.9	25 20 16.7	10 34 59.6	768.64876	0.4428524	L. Becker.
158 47 12.2	0 55 42.7	3 50 23.9	1106.14745	0.3374608	Lange.
207 50 0.6	2 8 18.4	7 20 7.3	689.2534	0.474418	H. Oppenheim.
39 1 12.0	6 28 21.2	2 10 51.3	850.1245	0.4136827	Riem.
41 25 0.5	12 13 21.2	4 12 12.4	637.2942	0.4971111	Lange.
228 26 26.0	7 51 55.4	9 24 52.2	451.59758	0.5968367	Kühnert.
37 8 50.1	20 58 9.2	4 59 7.6	624.20506	0.5031195	Anton.
43 20 30	14 4 31	14 49 28	713.7875	0.464292	Schulhof.
242 43 10.3	9 39 1.8	12 55 24.2	785.6858	0.436505	Ebell.
62 9 28.7	12 5 20.1	11 30 39.9	856.508	0.411518	Sternberg.
281 12 13.9	1 0 0.7	3 17 38.9	730.4848	0.4575969	Maywald.
135 12 3.7	6 4 55.0	5 37 45.9	647.4107	0.492551	Berberich.
9 24 54.3	3 51 22.4	3 45 8.1	787.7290	0.435753	P. Neugebauer.

Nr. und Name	Opposition		<i>m.</i>	<i>g</i>	Epoche und Oskulation	Mittl. Äqu.	<i>M</i>	<i>ω</i>
	1907	Gr.						
161 Athor	Dez. 34	11.7	11.0	8.4	1896 Dez. 30.0	1910.0	142° 39' 1.6	291° 48' 34.3
162 Laurentia . .	März 1	11.2	12.3	8.4	1899 Sept. 6.0	1910.0	215 30 54.3	106 2 42.9
163 Erigone . . .	Dez. 3	10.4	11.5	9.0	1906 Juli 12.0	1910.0	204 53 31.8	295 23 42.8
164 Eva	—	—	11.5	8.3	1906 Juni 22.0	1910.0	303 12 38.7	281 52 7.5
165 Loreley . . .	Jan. 31	11.4	11.1	7.0	1897 April 9.0	1910.0	290 21 20.7	342 30 12.7
166 Rhodope . . .	Sept. 19	11.3	12.5	9.2	1897 Juni 8.0	1910.0	213 52 27.9	261 28 49.8
167 Urda	—	—	13.0	9.4	1898 Jan. 14.0	1910.0	197 17 5.7	121 7 43.9
168 Sibylla	Sept. 24	11.2	11.6	7.1	1899 Mai 29.0	1910.0	218 22 50.2	174 26 31.9
169 Zelia	Febr. 9	12.1	11.3	8.8	1890 Aug. 4.0	1910.0	328 1 8.3	332 10 48.8
170 Maria	Juli 10	12.0	11.7	8.7	1907 Juni 17.0	1910.0	185 15 57.1	155 39 10.6
171 Ophelia	Juli 31	12.6	12.1	8.0	1897 Okt. 6.0	1910.0	236 0 17.5	50 27 33.1
172 Baucis	April 26	10.6	10.4	7.8	1889 Juni 30.0	1910.0	316 43 41.4	356 48 28.3
173 Ino	März 20	12.1	11.0	7.6	1897 Jan. 19.0	1910.0	71 13 19.6	224 39 41.9
174 Phaedra	Nov. 23	12.4	11.6	8.0	1897 Okt. 6.0	1910.0	129 24 10.1	286 21 18.9
175 Andromache	Dez. 29	12.8	12.3	8.0	1906 Okt. 20.0	1910.0	36 15 40.8	302 4 36.4
176 Idunna	—	—	12.1	7.9	1906 Nov. 29.0	1910.0	41 4 7.6	182 58 52.8
177 Irma	März 21	13.5	12.4	9.0	1897 Jan. 19.0	1910.0	71 42 48.0	33 16 9.9
178 Belisana . . .	Juli 15	11.7	12.0	9.2	1907 Juli 27.0	1910.0	27 30 18.5	213 42 0.0
179 Klytæmnestra	Sept. 2	10.9	11.5	7.7	1897 Okt. 6.0	1910.0	14 32 37.3	100 30 2.0
180 Garumna . . .	Aug. 23	14.0	13.3	9.9	1899 Nov. 5.0	1910.0	308 53 34.6	169 12 38.1
181 Eucharis . . .	Juni 7	12.4	11.5	7.4	1887 Okt. 19.0	1910.0	305 49 36.6	310 26 20.5
182 Elsa	—	—	11.0	8.3	1897 März 20.0	1910.0	102 51 45.1	308 16 41.4
183 Istria	April 25	14.2	12.6	9.1	1900 Dez. 10.0	1910.0	15 39 20.2	262 21 44.2
184 Dejopeja . . .	April 15	12.1	12.4	8.2	1907 März 29.0	1910.0	10 32 9.9	216 6 0.0
185 Eunike	Aug. 9	9.9	10.0	6.6	1889 Aug. 29.0	1910.0	328 9 2.3	221 34 37.8
186 Celuta	März 31	12.0	11.4	8.9	1897 Aug. 27.0	1910.0	2 39 38.6	313 36 27.2
187 Lamberta . . .	Okt. 30	12.5	11.4	8.0	1897 Aug. 27.0	1910.0	94 42 30.1	192 2 46.6
188 Menippe	Dez. 6	13.5	13.0	9.6	1897 Sept. 1.0	1910.0	23 1 52.2	66 36 36.3
189 Phthia	Febr. 28	11.8	11.5	8.8	1900 Mai 24.0	1910.0	234 17 27.2	166 0 10.0
190 Ismene	Juni 30	12.8	12.0	6.7	1907 Juni 17.0	1910.0	171 20 14.4	286 34 32.9
191 Kolga	Juli 18	11.9	12.0	8.3	1897 Juli 18.0	1910.0	271 52 28.4	224 21 12.1
192 Nausikaa . . .	Nov. 24	8.1	9.3	6.7	1888 Juli 25.0	1910.0	324 20 18.4	27 40 24.5
193 Ambrosia . . .	—	—	12.2	9.2	1879 März 25.5	1910.0	68 48 35.8	79 36 55.8
194 Prokne	—	—	10.5	7.4	1899 Jan. 29.0	1910.0	130 9 24.2	160 37 18.4
195 Eurykleia . . .	—	—	12.6	8.9	1896 Nov. 20.0	1910.0	289 6 21.8	118 7 2.1
196 Philomela . . .	Mai 8	10.3	10.3	6.3	1901 April 9.0	1910.0	240 25 11.6	237 19 45.5
197 Arete	Sept. 25	11.8	12.7	9.3	1900 Jan. 24.0	1910.0	134 40 9.5	243 28 47.4
198 Ampella	Dez. 17	11.0	11.1	8.3	1907 Dez. 14.0	1910.0	69 33 33.4	87 25 41.5
199 Byblis	Mai 25	11.5	12.4	8.2	1907 Mai 8.0	1910.0	336 59 58.6	171 48 21.7
200 Dynamene . . .	Dez. 1	10.5	11.3	7.9	1888 Juli 25.0	1910.0	277 46 23.8	82 43 1.0

Ω	i	φ	μ	Log. a	Autorität
18° 48' 52.5	9° 3' 17.7	7° 57' 23.4	967.0645	0.3763675	Tietjen.
38 16 1.8	6 5 6.0	10 31 5.3	676.5719	0.4797951	Tietjen.
160 15 17.2	4 46 35.4	11 1 22.2	973.8305	0.3743489	Berberich.
77 41 46.4	24 23 44.8	20 15 51.4	829.95819	0.4206310	Richter.
304 11 19.1	11 12 5.0	3 54 10.6	641.1299	0.4953737	Samter.
129 39 27.9	12 1 54.8	12 13 13.9	806.7683	0.4288385	Richter.
166 38 10.8	2 10 45.6	1 59 3.7	736.5954	0.4551851	Lange.
209 23 56.1	4 36 6.5	4 21 54.0	571.6864	0.5285658	v. d. Groeben.
354 58 8.5	5 30 51.2	7 31 33.7	979.6462	0.3726249	Richter.
301 24 44.0	14 21 25.5	3 37 27.0	868.84281	0.4073752	Lange.
101 3 53.7	2 33 12.1	6 38 28.6	636.3859	0.4975241	Berberich.
332 11 35.0	10 2 10.4	6 32 18.8	965.9899	0.3766893	Berberich.
148 53 6.9	14 15 36.8	11 51 44.6	780.8006	0.4383110	Bečka.
328 48 32.4	12 6 32.9	8 23 43.8	734.0156	0.456201	H. Oppenheim.
25 28 33.9	3 10 39.3	11 5 45.1	612.3009	0.5086945	Berberich.
201 6 33.5	22 41 12.7	10 8 24.1	626.54556	0.5020359	P. Neugebauer.
349 34 1.8	1 26 55.3	13 32 58.0	768.8406	0.4427802	Richter.
51 1 41.0	1 54 28.1	2 34 25.7	919.34520	0.3910187	Berberich.
253 20 50.4	7 47 52.8	6 37 0.0	692.8578	0.472908	H. Oppenheim.
314 50 1.1	0 53 40.8	9 46 17.7	790.4612	0.4347507	v. d. Groeben.
145 7 22.1	18 35 23.6	12 40 26.5	643.5438	0.4942856	de Ball.
106 46 38.9	2 10 9.1	10 50 51.9	944.5132	0.3831990	Samter.
142 54 44.3	26 25 59.5	20 27 8.2	760.4634	0.4459522	Petreliaus.
333 51 23.8	1 9 57.4	3 26 42.8	622.91002	0.5037209	Thraen.
154 3 8.4	23 14 21.7	7 11 14.1	782.8522	0.4375512	Bauschinger.
14 43 53.5	13 11 11.6	8 41 21.3	977.5884	0.3732337	Tietjen.
22 22 32.4	10 41 24.8	13 36 43.5	785.6152	0.4365311	A. Leman.
241 56 25.8	11 44 36.3	10 15 28.9	772.712	0.441326	Coniel.
203 32 11.1	5 8 54.2	2 4 18.4	924.2246	0.3894861	H. Oppenheim.
177 1 44.1	6 8 8.7	9 41 37.3	453.59017	0.5955619	Küstner.
159 59 7.7	11 29 25.6	5 13 5.0	720.0541	0.4617609	L. Becker.
343 33 25.4	6 51 40.6	14 9 22.7	952.4502	0.3807762	Lange.
351 40 33.1	11 38 46.5	16 34 52.0	858.2960	0.410913	A. Leman.
159 29 8.2	18 25 4.9	13 50 55.7	839.1447	0.4174465	Tietjen.
7 52 26.6	7 0 9.8	2 25 31.9	727.0481	0.4589623	Riem.
73 27 31.0	7 17 1.5	1 13 48.1	646.0377	0.4931658	P. V. Neugebauer.
82 10 10.5	8 49 20.8	9 22 12.5	782.6498	0.4376261	Lange.
268 35 47.8	9 18 39.1	13 3 51.6	919.47715	0.3909771	v. d. Groeben.
89 41 53.4	15 24 49.1	10 34 5.7	630.78490	0.5000835	Tietjen.
325 35 38.5	6 54 46.3	7 41 20.4	783.6017	0.4372741	Bauschinger.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M			
	1907	Gr.					°	'	"	
201 Penelope . .	—	—	11.9	8.6	1897 Nov. 15.0	1910.0	53° 1'	33.0	177° 43'	4.8
202 Chryseis . .	Dez. 14	10.4	10.7	6.7	1896 Nov. 20.0	1910.0	296 12	57.2	355 17	24.9
203 Pompeja . .	—	—	11.7	8.3	1899 Jan. 9.0	1910.0	65 39	8.5	53 45	33.1
204 Kallisto . . .	—	—	12.0	8.7	1888 Nov. 2.0	1910.0	140 55	19.4	51 16	26.1
205 Martha . . .	Nov. 17	12.5	12.7	9.2	1886 Febr. 26.0	1910.0	139 40	10.2	172 8	41.4
206 Hersilia . . .	Dez. 34	11.8	12.0	8.6	1887 Juni 21.0	1910.0	184 57	36.2	300 24	35.6
207 Hedda . . .	Dez. 19	12.0	11.8	9.5	1898 Febr. 3.0	1910.0	280 15	16.2	190 38	50.0
208 Lacrimosa . .	Juni 10	12.1	12.1	8.4	1899 Nov. 25.0	1910.0	315 23	43.1	105 47	59.3
209 Dido	Okt. 27	11.8	11.5	7.4	1897 Dez. 25.0	1910.0	222 32	56.9	249 39	35.2
210 Isabella . . .	—	—	12.5	9.1	1897 Okt. 26.0	1910.0	358 48	23.3	10 17	39.2
211 Isolda	Jan. 28	10.8	11.5	7.5	1895 Nov. 26.0	1910.0	1 10	15.0	170 41	36.4
212 Medea	Jan. 14	11.8	12.2	8.1	1899 Juli 28.0	1910.0	276 2	57.4	101 16	7.9
213 Lilaea	Jan. 26	12.4	11.7	8.3	1898 Febr. 23.0	1910.0	229 20	37.9	158 35	27.9
214 Aschera . . .	Sept. 12	12.2	12.1	9.0	1897 April 9.0	1910.0	72 5	59.3	128 5	43.8
215 Oenone . . .	Febr. 22	12.9	12.7	9.3	1891 Nov. 7.0	1910.0	55 43	48.8	314 6	30.5
216 Kleopatra . .	Jan. 21	9.9	10.1	6.6	1886 Juni 26.0	1910.0	277 9	56.8	176 11	54.3
217 Eudora . . .	Jan. 26	14.6	13.1	9.5	1900 Dez. 10.0	1910.0	75 4	1.8	150 32	44.9
218 Bianca	Nov. 26	12.1	11.4	8.2	1893 Aug. 28.0	1910.0	96 4	34.6	58 48	58.8
219 Thusnelda . .	Jan. 21	12.2	11.2	8.8	1889 Jan. 21.0	1910.0	130 33	20.7	140 3	44.8
220 Stephanía . .	—	—	13.6	11.0	1887 Jan. 0.5	1910.0	131 12	41.6	75 7	33.9
221 Eos	—	—	11.3	7.4	1898 März 15.0	1910.0	201 46	0.0	188 0	19.7
222 Lucia	Nov. 13	13.6	12.9	8.8	1898 Jan. 14.0	1910.0	225 34	56.4	175 52	41.3
223 Rosa	Nov. 3	12.9	13.3	9.2	1891 Dez. 17.0	1910.0	333 23	9.3	58 28	30.7
224 Oceana	Jan. 12	11.8	11.7	8.5	1890 Febr. 5.0	1910.0	225 24	48.8	276 55	27.0
225 Henrietta . .	April 2	12.8	12.7	8.2	1903 Nov. 5.0	1910.0	88 41	26.8	97 37	49.8
226 Weringia . .	Jan. 13	14.1	13.0	9.7	1891 Aug. 19.0	1910.0	30 52	14.2	150 8	45.9
227 Philosophia .	—	—	12.9	8.7	1896 Dez. 10.0	1910.0	283 51	33.6	254 29	42.9
228 Agathe	Febr. 18	15.8	14.5	12.4	1892 Nov. 21.5	1910.0	49 45	10.8	16 2	37.2
229 Adelinda . . .	Aug. 4	12.7	13.5	8.9	1901 Aug. 27.0	1910.0	3 50	29.2	303 1	51.4
230 Athamantis .	Mai 21	10.5	10.3	7.7	1897 Okt. 26.0	1910.0	11 22	17.7	137 12	47.9
231 Vindobona . .	Sept. 21	12.4	12.4	8.6	1898 Nov. 10.0	1910.0	164 53	38.2	263 38	46.4
232 Russia	—	—	13.4	10.4	1901 Sept. 16.0	1910.0	159 56	8.4	48 35	13.8
233 Asterope . . .	—	—	11.3	8.1	1897 Aug. 27.0	1910.0	353 18	46.2	122 35	34.5
234 Barbara	Jan. 13	12.5	11.7	9.1	1898 Okt. 21.0	1910.0	33 57	10.0	190 6	58.4
235 Carolina . . .	Okt. 12	12.2	12.2	8.5	1897 Sept. 16.0	1910.0	73 32	29.3	207 24	29.7
236 Honoria	März 14	12.3	11.4	7.9	1890 Aug. 20.5	1910.0	341 11	56.1	170 30	20.7
237 Coelestina . .	Juni 7	12.8	12.8	9.4	1897 März 20.0	1910.0	258 3	0.9	196 24	38.6
238 Hypatia	April 1	12.2	11.7	8.0	1900 Dez. 10.0	1910.0	54 45	6.4	207 2	40.1
239 Adrastea . . .	Febr. 22	14.7	14.0	10.2	1900 Dez. 10.0	1910.0	26 23	21.4	206 1	9.1
240 Vanadis	—	—	12.5	9.3	1901 Juli 18.0	1910.0	262 20	34.3	298 17	15.1

Ω	i	φ	μ	Log. a	Autorität
157° 17' 30.2	5° 43' 18.9	10° 25' 23.2	809.8362	0.4277396	Bauschinger.
137 54 25.3	8 49 26.9	5 51 45.4	659.4551	0.4872142	Berberich.
348 46 39.6	3 12 20.0	3 28 23.6	783.8637	0.4371774	Berberich.
206 2 34.8	8 17 3.5	9 51 34.4	812.2343	0.4268835	Palisa.
212 34 39.7	10 39 53.8	1 54 54.4	765.9190	0.4438825	Küstner.
145 33 33.3	3 45 25.4	2 19 59.5	782.3554	0.437735	Stechert.
29 5 52.3	3 49 3.8	1 39 3.3	1027.9888	0.3586788	Richter.
5 25 26.9	1 47 15.0	0 54 11.9	721.0639	0.4613553	Berberich.
2 8 19.7	7 14 33.2	3 46 48.4	636.9842	0.4972519	Bauschinger.
33 11 5.1	5 18 10.8	7 6 30.8	790.0977	0.4348838	Berberich.
265 28 46.4	3 52 0.2	9 15 38.8	668.6056	0.4832244	Bauschinger.
315 15 56.5	4 16 54.7	6 40 42.2	647.3973	0.4925571	L. Becker.
122 36 4.4	6 46 27.7	8 19 49.1	777.0010	0.4397233	A. Leman.
342 41 30.4	3 27 38.3	1 55 49.3	841.5265	0.416626	Tietjen.
25 28 14.6	1 43 23.1	2 1 15.5	771.4115	0.4418137	Bauschinger.
216 8 54.0	13 2 22.4	14 31 20.7	759.7703	0.4462162	Knopf.
164 9 28.1	10 15 31.0	17 38 25.1	727.0438	0.4589640	Richter.
171 10 12.2	15 12 11.0	6 36 19.6	814.9375	0.4259216	Bauschinger.
201 5 2.9	10 47 16.8	12 54 38.9	982.2924	0.3718439	Darmer.
258 52 26.3	7 34 13.7	14 53 43.7	984.634	0.371154	Bidschof.
142 45 34.4	10 50 59.6	5 34 47.1	677.3539	0.4794607	Bauschinger.
80 28 19.6	2 10 46.9	8 27 39.8	641.7676	0.4950859	Berberich.
48 48 2.4	1 58 46.6	6 57 0.4	652.9855	0.490687	Bauschinger.
353 39 57.4	5 52 27.9	2 25 51.0	824.6755	0.4224824	S. Oppenheim.
200 52 24.6	20 41 56.1	15 18 16.8	567.5897	0.530647	Cerulli.
135 39 6.7	15 49 30.5	11 43 4.3	793.2109	0.433745	Kreutz.
331 9 43.9	9 15 0.1	12 2 39.9	637.0300	0.4972311	Lange.
313 44 55.4	2 33 21.6	13 55 0.2	1086.2400	0.3427205	Kreutz.
30 51 11.2	2 9 17.4	8 9 53.2	562.4884	0.5332620	Berberich.
239 53 16.0	9 25 11.6	3 32 52.8	964.9093	0.3770134	Richter.
352 24 25.6	5 8 18.5	8 56 36.2	711.1049	0.4653820	Lange.
152 33 31.6	6 4 17.4	9 51 22.1	869.5956	0.4071263	v. d. Groeben.
222 40 10.4	7 39 4.5	5 49 43.8	817.9445	0.4248552	Knopf.
144 25 8.3	15 21 14.2	14 7 1.5	962.6609	0.3776889	Tietjen.
66 42 2.0	9 4 3.2	3 31 18.9	725.2712	0.4596708	Tietjen.
186 49 0.9	7 36 48.4	10 54 45.4	758.1024	0.446853	Bidschof.
84 44 24.1	9 45 48.7	4 1 30.3	771.8775	0.4416388	Schwarz.
184 35 15.0	12 23 12.7	5 10 15.7	715.9041	0.463434	Berberich.
181 39 47.0	6 9 4.0	13 26 21.7	693.1222	0.472798	Berberich.
114 55 52.6	2 5 52.9	11 54 32.0	814.7587	0.4259851	Berberich.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		ω			
	1907	Gr.										
241 Germania . .	—	—	11.2	7.2	1907 Dez. 14.0	1910.0	139	39	43.3	75	37	11.8
242 Kriemhild . .	Juli 18	13.3	12.6	9.0	1889 Dez. 27.0	1910.0	307	49	54.4	274	28	16.5
243 Ida	Juli 3	13.5	13.3	9.7	1898 Sept. 11.0	1910.0	276	49	8.8	104	57	1.6
244 Sita	—	—	13.7	11.7	1900 Okt. 11.0	1910.0	6	50	18.3	164	28	0.7
245 Vera	Jan. 25	12.5	12.5	8.5	1897 März 20.0	1910.0	141	1	15.6	326	20	12.9
246 Asporina . .	Febr. 22	11.8	11.7	8.4	1890 Jan. 16.0	1910.0	316	40	26.7	94	5	7.1
247 Eukrate . . .	—	—	11.0	7.6	1907 Dez. 14.0	1910.0	99	25	16.0	53	48	58.3
248 Lameia . . .	—	—	13.0	10.2	1905 Aug. 6.0	1910.0	71	44	12.3	1	2	34.4
249 Ilse	Aug. 21	12.5	13.6	11.1	1904 Dez. 29.0	1910.0	69	11	14.1	39	42	30.4
250 Bettina . . .	Aug. 18	11.8	11.5	7.3	1897 Nov. 15.0	1910.0	332	3	32.7	66	3	47.2
251 Sophia . . .	Okt. 11	13.4	13.6	9.6	1902 Nov. 10.0	1910.0	335	39	10.4	288	20	55.2
252 Clementina .	Sept. 1	12.6	13.0	8.8	1901 Juli 18.0	1910.0	317	26	58.9	148	50	33.1
253 Mathilde . .	Dez. 33	14.0	13.4	10.2	1901 April 9.0	1910.0	256	52	2.1	153	38	18.0
254 Augusta . . .	Dez. 28	14.1	13.4	11.3	1887 Juli 31.0	1910.0	101	27	54.0	230	49	10.4
255 Oppavia . . .	—	—	13.8	10.4	1890 Jan. 16.0	1910.0	336	40	35.6	149	6	36.3
256 Walpurga . .	April 19	12.9	13.2	9.3	1906 Febr. 2.0	1910.0	254	22	31.1	48	28	9.1
257 Silesia	Febr. 11	12.6	12.8	8.7	1902 April 4.0	1910.0	106	36	49.5	25	30	6.8
258 Tyche	April 17	12.0	11.1	8.0	1904 Okt. 10.0	1900.0	4	23	24.3	152	52	26.8
259 Aletheia . .	Febr. 11	12.3	12.1	8.0	1899 Nov. 25.0	1910.0	162	11	23.4	156	52	33.7
260 Huberta . . .	—	—	13.9	9.2	1900 Dez. 10.0	1910.0	92	3	1.9	163	58	5.7
261 Prymno . . .	Sept. 11	12.4	11.5	9.0	1897 Nov. 15.0	1910.0	275	46	24.4	63	7	47.9
262 Valda	—	—	14.1	11.1	1901 Mai 19.0	1910.0	189	4	51.8	22	36	56.6
263 Dresda	—	—	13.3	9.6	1903 Febr. 18.0	1910.0	133	51	41.8	158	3	22.8
264 Libussa . . .	März 9	12.6	12.1	8.6	1895 Aug. 18.0	1910.0	316	59	55.7	336	41	5.1
265 Anna	Sept. 24	14.8	13.8	11.1	1906 März 14.0	1910.0	334	34	37.9	251	23	58.2
266 Aline	Okt. 6	10.8	11.7	8.2	1904 Jan. 4.0	1900.0	65	48	59.9	147	50	13.7
267 Tirza	Nov. 19	14.4	14.0	10.5	1901 Juni 28.0	1910.0	4	14	46.5	193	22	52.0
268 Adorea	—	—	12.5	8.5	1903 Mai 29.0	1910.0	41	9	17.0	58	53	55.4
269 Justitia . . .	März 1	13.0	12.7	9.6	1900 Okt. 31.0	1910.0	91	35	3.3	115	31	13.2
270 Anahita . . .	Dez. 28	11.4	11.0	8.9	1907 Dez. 14.0	1910.0	103	37	17.6	78	2	36.7
271 Penthesilea .	Juli 20	12.7	12.8	8.9	1902 Aug. 22.0	1910.0	303	17	6.1	49	19	54.7
272 Antonia	April 5	13.6	13.6	10.1	1899 Juli 28.0	1910.0	208	59	58.9	65	32	12.4
273 Atropos	Mai 6	11.1	11.6	9.0	1888 März 9.5	1910.0	261	20	1.8	118	28	21.5
274 Philagoria . .	Dez. 14	13.9	13.6	9.6	1905 Juli 17.0	1910.0	81	26	30.7	114	39	38.8
275 Sapientia . .	Juni 14	11.9	12.0	8.5	1902 April 24.0	1910.0	36	26	14.9	31	7	20.2
276 Adelheid . . .	Okt. 28	11.8	11.8	7.7	1901 Okt. 6.0	1910.0	240	57	31.9	272	59	31.8
277 Elvira	März 5	13.6	13.1	9.4	1907 März 9.0	1910.0	156	48	17.8	131	37	27.2
278 Paulina	Aug. 18	13.0	12.7	9.3	1906 April 23.0	1910.0	4	42	43.8	137	20	17.4
279 Thule	Dez. 12	14.1	13.8	8.1	1891 Febr. 20.0	1910.0	155	36	48.8	233	22	18.9
280 Philia	Juli 22	14.9	14.4	10.6	1900 Febr. 13.0	1910.0	39	45	20.2	80	58	25.3

Ω	i	φ	μ	Log. a	Autorität
272° 2' 39.9	5° 30' 13.1	5° 34' 45.0	664.16341	0.4851544	W. Luther.
208 16 16.8	11 16 52.0	7 5 15.3	732.9031	0.4566401	Hertz.
326 14 27.5	1 9 23.6	2 43 0.0	733.1121	0.456558	Berberich.
208 48 21.5	2 49 38.7	7 52 21.3	1106.6025	0.3373433	Berberich.
62 9 21.1	5 11 20.0	11 37 34.2	651.4943	0.4907307	Tietjen.
162 54 3.3	15 37 35.8	6 2 43.0	802.267	0.4304584	Seydler.
0 18 39.8	25 4 59.7	14 0 19.1	782.38126	0.4377255	W. Luther.
246 45 12.4	4 0 52.7	3 40 49.9	913.94026	0.3927259	Berberich.
334 49 30.7	9 40 10.9	12 28 59.5	968.2498	0.3760128	Berberich.
25 44 44.7	12 56 32.7	7 1 38.3	633.85003	0.498680	P. V. Neugebauer.
156 56 53.5	10 29 21.1	5 38 31.8	650.38006	0.4912263	Knopf.
203 12 39.2	9 59 40.2	4 15 39.6	632.1027	0.4994793	Charlois.
180 9 24.1	6 38 16.5	15 28 16.9	824.9747	0.4223773	Knopf.
28 28 40.6	4 32 3.2	6 58 7.6	1091.0836	0.3414323	Schwarz.
14 21 30.2	9 30 41.9	4 40 24.1	780.0705	0.4385818	Laves.
183 38 34.4	13 17 58.1	3 43 37.0	683.2594	0.4769473	Berberich.
35 32 38.3	3 40 9.7	7 18 8.3	646.6326	0.4928994	Berberich.
207 43 26.2	14 15 2.4	11 52 56.0	838.8243	0.4175571	Stechert.
88 37 4.1	10 42 43.7	6 20 43.1	635.21397	0.4980577	Ernst.
168 3 52.2	6 17 53.3	7 7 16.5	554.7196	0.5372887	v. d. Groeben.
96 28 8.3	3 38 28.6	5 9 55.5	996.7823	0.3676042	Riem.
38 44 43.0	7 44 4.6	12 14 5.8	869.5200	0.4071513	Berberich.
217 47 31.0	1 16 53.0	4 21 32.2	722.5549	0.4607572	v. d. Groeben.
50 12 15.6	10 26 47.1	7 44 47.5	757.7014	0.4470056	Cerulli.
335 26 56.8	25 40 50.5	15 20 26.1	941.9275	0.3839928	Berberich.
236 19 21.7	13 21 1.2	9 1 20.5	755.6505	0.4477904	Berberich.
74 11 19.8	6 1 26.2	5 46 49.5	767.3626	0.4433373	v. d. Groeben.
121 47 54.0	2 25 39.9	7 45 32.6	652.37206	0.4903408	Berberich.
157 37 9.8	5 25 49.2	12 18 39.7	838.9442	0.4175157	Berberich.
254 35 55.5	2 21 42.4	8 36 57.3	1088.51298	0.3421153	Berberich.
337 6 44.8	3 34 52.4	5 47 42.9	679.1966	0.4786741	Knopf.
37 51 15.8	4 28 30.9	1 46 56.3	767.2554	0.4433777	Charlois.
159 7 3.3	20 24 0.8	9 19 0.4	955.4037	0.379880	Lange.
93 45 36.1	3 40 53.3	7 7 6.3	669.09610	0.4830121	Berberich.
134 55 18.6	4 44 44.3	9 18 0.2	769.93398	0.4423688	Lange.
211 37 31.5	21 35 38.5	4 3 48.4	645.8425	0.4932533	Hackenberg.
233 17 5.0	1 8 0.1	5 18 42.5	724.6235	0.4599295	Berberich.
62 20 28.0	7 49 44.6	7 47 48.7	776.6491	0.4398545	Berberich.
75 39 8.5	2 22 35.6	4 43 14.2	403.1860	0.629667	Bidschof.
11 25 17.4	7 27 30.5	6 19 13.9	703.8816	0.4683380	Berberich.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		∞			
	1907	Gr.										
281 Lucretia . .	Aug. 10	13.4	13.6	11.5	1888 Nov. 2.5	1910.0	353	48	12.3	14	13	40.9
282 Clorinde . .	Febr. 27	13.2	13.3	10.8	1905 Aug. 26.0	1910.0	277	9	37.1	294	43	20.3
283 Emma	Juli 9	11.3	11.8	7.8	1901 Mai 19.0	1910.0	249	24	18.8	49	52	23.4
284 Amalia	April 10	12.6	12.9	10.4	1905 Dez. 24.0	1910.0	168	23	3.0	55	42	58.7
285 Regina	—	—	14.9	10.9	1889 Aug. 19.5	1910.0	357	36	27.2	12	28	58.7
286 Iclea	Nov. 4	13.2	13.2	9.0	1905 Juni 7.0	1910.0	211	56	51.1	243	11	59.6
287 Nephthys . .	Aug. 17	10.6	10.7	8.2	1899 April 19.0	1910.0	311	52	37.9	117	32	38.4
288 Glauke	Dez. 40	12.4	12.5	9.1	1908 Jan. 23.0	1910.0	293	32	17.3	79	53	41.7
289 Nenetta . . .	Aug. 30	11.3	12.5	8.8	1906 Juni 2.0	1910.0	248	7	14.6	185	20	55.7
290 Bruna	—	—	13.9	11.5	1890 Mai 7.5	1910.0	56	49	22.1	103	32	41.3
291 Alice	Juli 1	14.0	13.6	11.4	1905 Dez. 24.0	1910.0	337	18	6.1	329	28	13.1
292 Ludovica . .	Aug. 29	12.3	12.5	9.5	1903 Sept. 6.5	1910.0	3	3	9.9	287	29	17.0
293 Brasilia . . .	Dez. 14	12.5	12.9	9.2	1890 Juni 17.5	1910.0	92	28	41.4	82	22	24.6
294 Felicia	Okt. 4	13.2	14.3	10.2	1901 Aug. 7.0	1910.0	353	2	17.9	179	28	13.6
295 Theresia . .	April 20	14.2	13.5	10.0	1900 Dez. 10.0	1910.0	8	35	38.2	143	48	50.9
296 Phaëtusa . .	Nov. 30	12.6	13.3	11.1	1890 Aug. 22.0	1910.0	330	33	11.7	250	4	4.6
297 Caecilia . . .	Sept. 11	12.5	13.3	9.1	1905 März 19.0	1910.0	223	21	19.1	346	29	40.6
298 Baptistina . .	Sept. 25	14.0	13.5	11.3	1906 Mai 13.0	1910.0	83	33	27.7	132	43	13.3
299 Thora	Febr. 14	14.6	14.5	11.7	1903 Jan. 19.5	1910.0	83	26	9.5	147	35	9.9
300 Geraldina . .	Sept. 9	12.2	12.5	8.2	1895 Juli 10.0	1910.0	336	44	54.3	283	3	2.7
301 Bavaria . . .	Juli 30	12.4	12.7	9.3	1903 Okt. 16.0	1910.0	95	17	5.1	121	19	7.3
302 Clarissa . . .	März 15	14.0	13.9	11.2	1901 Sept. 16.0	1910.0	290	56	54.8	53	3	25.3
303 Josephina . .	—	—	12.0	7.9	1907 Jan. 8.5	1910.0	38	25	53.0	71	26	35.0
304 Olga	Juli 5	12.7	12.4	9.7	1904 Nov. 19.0	1900.0	76	58	2.9	169	50	50.7
305 Gordonia . .	Jan. 11	11.2	12.5	8.4	1905 Okt. 5.0	1910.0	281	49	57.0	250	36	56.1
306 Unitas	Nov. 13	10.8	10.7	8.2	1902 März 15.5	1910.0	240	21	9.1	165	31	57.6
307 Nike	Mai 18	13.8	13.1	9.4	1891 März 8.5	1910.0	74	37	11.8	320	29	5.7
308 Polyxo	Dez. 5	11.2	11.0	7.6	1902 Nov. 10.0	1910.0	97	52	8.3	108	53	30.4
309 Fraternitas .	—	—	12.7	9.5	1891 Mai 11.5	1910.0	239	5	58.0	332	8	15.9
310 Margarita . .	Dez. 18	13.6	13.5	10.1	1891 Juni 17.5	1910.0	48	49	25.4	320	41	8.3
311 Claudia . . .	Okt. 7	13.1	13.0	9.3	1902 Okt. 1.0	1900.0	213	27	20.4	70	18	32.1
312 Pierretta . .	—	—	12.5	9.0	1901 Nov. 15.0	1910.0	149	15	57.6	256	32	46.2
313 Chaldaea . .	—	—	10.3	7.7	1906 Okt. 20.0	1910.0	272	0	32.8	313	53	31.3
314 Rosalia . . .	Juli 3	13.7	14.0	9.9	1906 April 23.0	1910.0	226	54	24.0	185	13	26.0
315 Constantia .	April 10	14.6	14.0	11.8	1891 Sept. 4.5	1910.0	9	27	44.6	171	22	42.4
316 Goberta . . .	Juli 1	13.9	13.3	9.1	1893 Jan. 0.0	1910.0	11	29	4.9	307	29	39.4
317 Roxane	Febr. 11	12.6	12.2	9.8	1904 März 24.0	1910.0	223	53	21.1	185	10	51.7
318 Magdalena . .	Mai 25	13.6	13.2	9.0	1903 Sept. 26.0	1910.0	294	49	55.5	273	41	45.9
319 Leona	April 15	15.2	14.2	9.7	1906 Febr. 22.0	1910.0	83	18	24.7	216	19	52.6
320 Katharina . .	Nov. 20	13.7	14.2	10.3	1891 Dez. 2.5	1910.0	23	36	28.6	142	54	14.8

δ	i	φ	μ	Log. a	Autorität
31° 18' 1.0	5° 19' 37.6	7° 34' 24.3	1098.5312	0.3394628	Berberich.
144 47 14.0	9 1 23.8	4 40 42.6	992.0943	0.3689684	Berberich.
305 51 15.2	8 2 29.8	8 46 12.1	668.5906	0.483231	Berberich.
234 2 0.7	8 4 14.3	12 51 34.8	979.7243	0.3726018	Berberich.
312 19 2.3	17 16 57.9	11 55 35.4	661.4827	0.4863254	Charlois.
149 38 59.4	17 53 34.1	0 45 31.4	620.6276	0.5047837	Berberich.
142 13 54.2	10 1 20.1	1 19 35.4	982.6631	0.371735	Cerulli.
121 4 53.1	4 19 58.3	11 52 22.6	773.32939	0.4410947	R. Luther.
182 37 28.7	6 39 21.6	11 45 55.7	727.8628	0.4586381	Berberich.
10 35 19.4	22 13 28.1	15 4 22.7	995.1925	0.368066	S. Oppenheim.
161 7 22.5	1 50 32.2	5 19 14.8	1071.1737	0.3467645	Berberich.
43 11 16.0	14 52 8.2	1 41 17.2	880.6967	0.4034534	Berberich.
62 20 54.1	15 45 20.9	6 48 2.9	730.8370	0.4574574	Charlois.
137 3 38.4	6 14 57.7	14 21 59.6	638.4006	0.4966088	P. V. Neugebauer.
277 34 14.1	2 40 23.3	9 49 31.5	758.6107	0.4466584	Berberich.
121 1 53.2	1 44 47.3	9 6 25.9	1068.122	0.3475906	Coniel.
333 36 3.4	7 34 48.6	7 58 42.7	629.5470	0.5006523	Berberich.
8 7 5.8	6 17 37.4	5 28 22.7	1041.4193	0.3549207	Berberich.
242 2 9.3	1 35 16.8	3 29 25.0	935.125	0.386091	Berberich.
42 21 30.3	0 47 5.4	2 26 41.4	617.2655	0.5063564	Rodin.
142 45 15.3	4 52 38.1	3 42 13.9	787.7302	0.4357527	Berberich.
7 53 21.9	3 26 4.1	6 22 53.8	950.1028	0.3814907	Berberich.
345 12 54.2	6 54 48.8	4 5 38.9	642.6590	0.4946840	Millosevich.
158 45 56.5	15 47 21.3	12 50 6.8	952.6642	0.3807112	Berberich.
211 11 17.9	4 25 2.2	11 33 54.0	654.8993	0.4892213	Berberich.
141 43 35.3	7 15 13.9	8 40 35.6	980.0925	0.372493	Millosevich.
101 43 34.0	6 6 42.4	8 16 29.7	715.9363	0.4634215	Knopf.
182 8 53.0	4 19 54.1	2 13 1.3	778.7887	0.4390579	Berberich.
358 7 59.8	3 56 18.3	5 1 56.0	831.679	0.420034	Berberich.
230 43 26.5	3 5 55.3	6 31 55.2	775.6563	0.440225	Berberich.
81 10 21.7	3 15 42.8	0 49 49.8	720.5324	0.461569	Berberich.
7 40 39.7	9 5 3.2	9 13 39.5	765.2695	0.4441281	P. V. Neugebauer.
176 40 23.5	11 36 14.2	10 27 16.0	969.4022	0.3756684	Berberich.
171 18 21.3	12 32 26.7	10 27 49.4	634.9619	0.4981726	Berberich.
161 22 12.5	2 24 30.8	9 40 17.9	1057.2646	0.3505486	Bohlin.
124 39 7.9	2 18 33.4	7 57 58.6	627.7382	0.501485	Berberich.
150 50 32.5	1 45 18.0	4 50 38.8	1025.9378	0.3592571	Berberich.
162 49 46.5	10 33 29.9	3 36 17.5	616.1012	0.506903	Mader.
189 5 22.4	10 44 15.4	12 15 56.9	563.9420	0.5325148	Berberich.
221 12 36.2	9 19 16.0	6 41 30.5	678.726	0.478875	Berberich.

Nr. und Name	Opposition 1907	Gr.	<i>m.</i>	<i>g</i>	Epoche und Oskulation	Mittl. Äqu.	<i>M</i>	<i>ω</i>
321 Florentina . . .	—	—	13.2	9.5	1903 Febr. 18.0	1910.0	72 54 39.7	34 0 40.1
322 Phaeo	Febr. 24	13.3	12.3	8.8	1905 Nov. 14.0	1910.0	38 46 38.3	111 32 54.5
323 Brucia	—	—	13.0	11.0	1892 Jan. 1.5	1891.0	43 0 42	292 17 48
324 Bambergia . . .	Juni 15	9.7	9.9	6.6	1906 April 3.0	1910.0	195 13 6.8	40 19 30.5
325 Heidelbergia . .	Nov. 5	11.5	12.4	8.1	1906 Aug. 1.0	1910.0	270 22 12.3	74 39 7.7
326 Tamara	Okt. 15	11.3	11.1	8.7	1892 März 20.0	1910.0	298 49 14.0	236 57 34.2
327 Columbia	Aug. 9	12.6	13.0	9.5	1905 Febr. 7.0	1910.0	181 23 55.4	300 41 58.1
328 Gudrun	—	—	12.3	8.2	1906 Okt. 20.0	1910.0	309 12 45.4	102 25 47.4
329 Svea	Jan. 10	12.2	12.1	9.3	1901 Aug. 27.0	1910.0	120 9 24.9	38 30 56.3
330 Adalberta	—	—	13.5	11.7	1892 März 20.5	1892.0	181 3 42	— — —
331 Etheridgea . . .	März 4	12.9	12.5	8.5	1902 April 24.0	1910.0	187 21 0.8	334 52 27.6
332 Siri	Juli 9	12.1	12.6	9.1	1906 März 14.0	1910.0	223 56 59.9	293 37 55.7
333 Badenia	April 26	13.4	12.7	8.6	1907 April 18.0	1910.0	215 17 59.6	14 14 18.9
334 Chicago	Aug. 12	12.0	12.0	6.8	1906 Juni 2.0	1910.0	249 23 32.5	240 23 0.0
335 Roberta	Mai 23	10.7	11.6	8.8	1906 Febr. 2.0	1910.0	205 28 47.7	140 50 43.9
336 Lacadiera	—	—	11.8	9.6	1902 Juni 23.0	1910.0	49 57 10.9	28 49 41.1
337 Devosa	Nov. 20	10.6	11.4	8.8	1901 Jan. 19.0	1910.0	27 7 6.0	95 40 16.9
338 Budrosa	Okt. 12	12.0	12.1	8.4	1899 Jan. 9.0	1910.0	72 15 37.1	106 31 3.0
339 Dorothea	Juli 17	12.2	12.8	8.8	1906 April 23.0	1910.0	246 3 47.7	155 59 18.6
340 Eduarda	—	—	12.9	9.5	1906 Nov. 9.0	1910.0	346 36 56.4	39 58 16.1
341 California	Febr. 9	14.2	13.1	11.0	1904 März 18.5	1910.0	215 46 32.0	291 47 21.2
342 Endymion	Juni 1	13.4	12.8	9.8	1906 Febr. 2.0	1910.0	33 2 34.6	221 45 48.4
343 Ostara	Dez. 2	12.0	13.5	10.9	1905 März 19.0	1910.0	114 34 30.4	7 1 43.3
344 Desiderata	Febr. 6	12.9	11.7	8.5	1905 Dez. 24.0	1910.0	133 19 49.5	233 45 48.3
345 Tercidina	—	—	11.2	8.8	1905 Juni 7.0	1905.0	165 57 30.8	228 48 42.9
346 Hermentaria . . .	—	—	11.5	8.0	1899 März 10.0	1910.0	156 0 38.3	287 6 50.9
347 Pariana	Juni 9	11.7	12.0	8.8	1904 Okt. 10.5	1900.0	202 32 56.9	83 31 45.5
348 May	Okt. 26	12.8	12.9	9.1	1895 Mai 10.0	1910.0	143 12 22.8	4 58 1.5
349 Dombowska	Dez. 8	9.5	9.8	6.0	1896 Aug. 12.0	1900.0	319 16 56.2	340 29 52.9
350 Ornamenta	Juli 12	13.2	12.7	8.6	1906 April 23.0	1910.0	161 37 22.2	331 54 26.3
351 Yrsa	Jan. 17	11.3	12.2	8.8	1905 Okt. 5.0	1910.0	251 38 19.2	27 39 48.7
352 Gisela	Mai 23	12.8	12.1	10.0	1904 Juni 12.0	1910.0	255 25 57.5	142 27 24.3
353 Ruperto-Carola . .	—	—	14.2	10.9	1893 Febr. 22.5	1910.0	44 0 13.0	317 41 4.5
354 Eleonora	Jan. 13	9.5	10.0	6.5	1901 Dez. 5.0	1910.0	303 30 35.7	3 34 23.7
355 Gabriella	Aug. 15	13.3	13.1	10.1	1905 Jan. 2.5	1910.0	12 25 36.0	94 32 55.4
356 Liguria	März 10	11.8	11.9	8.5	1905 Sept. 15.0	1910.0	312 34 18.4	74 33 2.2
357 Ninina	Okt. 5	12.0	12.2	8.0	1893 Febr. 15.5	1910.0	138 27 1.7	231 52 6.2
358 Apollonia	—	—	12.5	8.8	1893 März 10.5	1910.0	86 52 43.5	248 18 56.9
359 Georgia	April 18	12.8	12.3	8.9	1902 Mai 2.5	1910.0	203 0 32.1	336 37 38.1
360 Carlota	Dez. 41	11.1	11.9	8.0	1906 Sept. 10.0	1910.0	302 47 25.6	286 23 10.5

δ	i	φ	μ	Log. α	Autorität
40° 47' 5.0	2° 36' 56.6	2° 39' 3.1	723.6554	0.4603165	Berberich.
253 56 18.3	7 59 8.1	14 15 14.3	763.9060	0.4446445	Berberich.
97 2 30	19 20 54	15 57 36.	1119.60	0.333960	Berberich.
329 8 36.3	11 18 40.9	19 47 42.6	807.8079	0.4284657	Berberich.
345 21 18.6	8 33 40.7	9 8 49.5	616.9272	0.5065151	Berberich.
32 9 9.7	23 47 22.4	10 48 17.5	1005.7638	0.365007	Bidschof.
355 39 44.3	7 9 11.2	3 41 18.3	766.8777	0.4435203	Berberich.
353 15 29.5	16 7 1.7	7 2 42.8	649.8767	0.4914504	Berberich.
178 28 13.5	16 0 36.7	1 35 42.6	912.1349	0.3932983	Pannekoek.
358 46 36	19 58 36	— — —	1174.9	0.32000	Berberich.
22 58 56.5	6 5 3.5	5 47 56.8	674.8516	0.4805321	Berberich.
32 3 7.2	2 52 35.7	5 10 38.7	768.7492	0.4428147	Berberich.
355 22 47.1	3 50 23.7	10 5 3.7	644.6123	0.4938053	Berberich.
134 21 12.5	4 37 49.4	0 57 29.2	458.6320	0.5923615	Berberich.
147 55 31.6	5 5 49.9	10 22 10.8	912.6621	0.3931311	Berberich.
235 1 13.3	5 38 30.7	5 28 48.1	1049.8478	0.3525869	Berberich.
355 41 19.0	7 51 56.4	7 57 52.0	964.4421	0.3771536	Coniel.
288 39 56.0	6 2 41.2	1 12 38.1	713.531	0.464396	Coniel.
174 26 7.4	9 53 59.7	5 49 6.3	679.2158	0.4786658	Berberich.
27 35 29.8	4 42 11.5	6 46 57.8	779.9016	0.4386445	Berberich.
29 8 25.2	5 40 15.8	11 8 58.9	1087.5833	0.3423627	Berberich.
233 0 11.1	7 20 46.9	7 22 8.5	862.0140	0.4096615	Berberich.
38 42 23.1	3 18 16.0	13 23 59.3	947.6428	0.3822413	Berberich.
49 6 39.6	18 38 2.0	18 12 31.9	848.3373	0.4142921	Berberich.
212 27 33.9	9 44 22.1	3 29 38.6	1000.4609	0.3665376	Viaro.
92 32 7.0	8 45 21.1	5 47 46.6	758.53251	0.446688	Ehrenfeucht.
85 51 12.2	11 41 39.0	9 27 2.7	839.30107	0.4173926	Boccardi.
90 45 49.6	9 45 30.5	3 49 50.1	693.6375	0.472584	P. V. Neugebauer.
33 5 9.2	8 17 20.9	5 8 39.7	709.2917	0.466122	P. V. Neugebauer.
90 39 26.9	24 44 33.9	8 45 23.0	643.2312	0.4944263	Berberich.
99 41 27.0	9 13 47.9	8 53 31.8	771.5837	0.4417490	Berberich.
247 18 51.6	3 22 0.5	8 36 26.8	1091.9690	0.3411975	Berberich.
103 23 14.9	5 34 36.4	19 15 26.7	787.080	0.435992	Berberich.
140 49 23.3	18 22 24.1	6 35 44.4	754.8010	0.4481160	Ciscato.
352 19 52.4	4 21 6.4	6 12 55.9	877.280	0.404580	Berberich.
356 16 38.1	8 16 8.5	14 2 3.2	776.2328	0.4400097	Berberich
138 23 56.3	14 5 28.9	1 31 16.0	632.836	0.499142	Coniel.
173 8 14.8	3 31 44.7	8 26 24.1	725.563	0.459554	Coniel.
6 41 13.1	6 48 31.7	8 58 30.9	787.647	0.435783	Berberich.
133 23 24.8	11 39 51.8	10 16 53.6	682.6786	0.4771935	Berberich.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		ω	
	1907	Gr.								
361 Bononia . . .	Dez. 48	12.3	13.3	8.0	1906 Okt. 20.0	1910.0	315° 0'	55.4	75° 44'	20.7
362 Havnia . . .	Sept. 17	10.9	11.1	8.0	1905 Febr. 7.0	1910.0	72 40	34.9	29 11	6.7
363 Padua . . .	April 3	12.0	11.6	8.2	1902 Febr. 23.0	1910.0	150 10	39.9	293 18	1.4
364 Isara	Juni 12	12.4	11.7	9.5	1906 Febr. 2.0	1910.0	64 52	29.0	311 1	48.7
365 Corduba . . .	März 17	12.8	12.2	8.7	1904 Juli 22.0	1910.0	286 5	51.5	209 40	43.5
366 Vincentina . .	Nov. 28	12.5	12.3	8.2	1904 März 24.0	1910.0	241 10	18.0	314 58	42.8
367 Amicitia . . .	Sept. 5	12.9	12.5	10.3	1897 Aug. 27.0	1910.0	198 37	34.8	53 16	25.8
368 Haidea	Jan. 10	14.3	13.5	9.5	1893 Juli 17.5	1910.0	317 18	49.4	85 6	56.3
369 Aëria	Nov. 13	12.3	12.7	9.5	1906 Juli 12.0	1910.0	287 6	32.8	266 17	7.5
370 Modestia . . .	Juni 30	13.2	12.8	10.4	1906 Febr. 2.0	1910.0	147 59	56.6	66 8	35.4
371 Bohemia . . .	Sept. 13	11.8	11.8	8.4	1903 Nov. 5.0	1910.0	134 40	27.2	338 44	41.7
372 Palma	März 29	10.8	10.5	6.4	1905 Dez. 4.0	1910.0	2 21	33.6	113 11	50.6
373 Melusina . . .	März 5	13.5	12.8	8.7	1905 Dez. 24.0	1910.0	86 27	28.9	348 2	21.7
374 Burgundia . .	Okt. 6	11.9	11.7	8.2	1906 Juni 2.0	1910.0	20 43	28.8	22 6	54.0
375 Ursula	Febr. 21	11.5	11.0	6.9	1901 Jan. 19.0	1910.0	155 15	7.8	344 31	25.5
376 Geometria . .	Okt. 19	12.3	11.8	9.4	1904 Nov. 19.0	1910.0	171 38	36.4	314 16	28.2
377 Campania . . .	—	—	11.5	8.2	1893 Okt. 7.5	1910.0	338 6	43.1	192 39	34.1
378 Holmia	Dez. 15	12.1	12.6	9.1	1906 Aug. 21.0	1910.0	301 48	59.4	153 47	51.8
379 Huenna	April 27	13.2	12.6	8.5	1901 April 9.0	1910.0	210 5	22.9	177 18	16.1
380 Fiducia	—	—	12.6	9.3	1894 Jan. 11.0	1910.0	129 58	51.0	237 3	32.6
381 Myrrha	Mai 30	11.7	12.4	8.1	1906 März 14.0	1910.0	266 28	42.8	142 59	18.2
382 Dodona	Aug. 29	12.4	12.1	8.1	1906 Mai 13.0	1910.0	9 20	17.0	267 5	53.6
383 Janina	Mai 30	14.1	13.3	9.2	1906 April 3.0	1910.0	134 23	47.3	313 41	41.4
384 Burdigala . .	Febr. 20	11.3	11.7	8.5	1899 April 9.5	1910.0	119 46	59.6	30 33	43.4
385 Ilmatar	—	—	10.3	6.7	1904 Mai 3.0	1910.0	38 31	8.7	184 18	24.2
386 Siegena	Dez. 32	10.2	10.5	6.8	1906 Aug. 21.0	1910.0	317 54	55.1	217 39	48.2
387 Aquitania . . .	Jan. 8	10.9	9.8	6.4	1895 Juli 3.5	1910.0	353 6	10.2	153 33	34.9
388 Charybdis . . .	Okt. 24	11.6	11.7	7.8	1906 Juli 12.0	1910.0	338 15	19.8	322 41	28.4
389 Industria . . .	April 3	10.8	11.1	8.0	1899 Juni 18.0	1910.0	63 27	27.4	262 50	16.2
390 Alma	Febr. 20	12.5	13.2	10.0	1899 Mai 17.0	1910.0	88 15	19.6	188 31	9.3
391 Ingeborg . . .	April 1	14.7	13.2	10.8	1906 Jan. 13.0	1910.0	82 56	37.0	145 9	23.8
392 Wilhelmina . .	—	—	12.2	8.3	1894 Nov. 4.5	1910.0	38 39	10.1	141 27	52.4
393 Lampetia	Mai 6	10.0	11.0	7.6	1904 Dez. 9.0	1910.0	130 40	16.4	86 49	15.1
394 Arduina	Juni 24	12.1	13.0	9.6	1894 Nov. 23.5	1910.0	55 25	12.3	265 38	37.7
395 Delia	Aug. 28	12.5	13.0	9.5	1894 Dez. 3.5	1910.0	136 43	41.3	20 38	45.7
396 Aolia	—	—	13.2	9.7	1894 Dez. 2.5	1910.0	156 42	32.8	18 37	12.4
397 Vienna	Dez. 35	12.5	12.6	9.4	1899 Jan. 9.0	1910.0	34 37	25.4	136 31	45.2
398 [1894 B.V.] . .	—	—	12.0	8.1	1895 Jan. 22.5	1895.0	187 25	12	—	—
399 Persephone . .	Juli 6	13.1	13.0	9.0	1904 Dez. 29.0	1900.0	290 8	19.9	186 48	8.8
400 Ducrosa	—	—	14.5	10.4	1895 März 18.5	1910.0	337 44	19.1	229 27	12.8

δ	i	φ	μ	Log. a	Autorität
19° 36' 14.1	12° 36' 57.4	11° 31' 54.9	451.1434	0.5971280	Berberich.
27 23 27.4	8 4 45.0	2 31 4.1	857.1587	0.4112969	Berberich.
65 8 10.2	5 58 1.3	4 3 32.9	778.9495	0.438998	Antoniazzi.
105 12 52.6	6 0 3.6	8 36 53.9	1072.5804	0.3463845	Berberich.
185 54 15.1	12 43 37.8	8 24 38.7	756.5331	0.4474524	Berberich.
347 59 13.4	10 35 26.9	3 27 2.7	636.2125	0.4976029	Berberich.
83 8 36.6	2 56 49.3	5 24 23.5	1073.2216	0.346211	Berberich.
230 7 47.4	7 48 12.9	11 8 13.1	663.984	0.485231	Berberich.
94 30 31.4	12 43 17.6	5 33 23.3	822.7067	0.4231744	Berberich.
290 58 24.7	7 52 10.5	5 14 50.0	1001.8542	0.3661347	Berberich.
284 12 35.1	7 22 41.2	3 35 44.5	788.3637	0.435520	Mader.
328 25 22.6	23 39 56.7	15 37 36.8	635.9909	0.4977038	Berberich.
4 28 36.5	15 26 46.9	8 33 30.6	645.6953	0.4933193	Berberich.
219 35 36.2	8 57 56.2	4 37 44.9	765.5599	0.4440183	Berberich.
337 27 33.3	15 57 18.0	5 41 17.0	640.8169	0.4955151	Heuer.
302 13 7.9	5 25 21.7	9 54 46.1	1025.0162	0.3595172	Berberich.
210 44 55.0	6 39 37.8	4 26 14.5	804.920	0.429503	Coniel.
233 14 43.6	6 57 56.3	7 20 19.7	766.5723	0.4436357	Berberich.
172 51 58.2	1 36 30.6	11 5 26.6	641.8494	0.4950490	Coniel.
95 22 51.6	6 10 16.7	6 33 30.2	809.782	0.427760	P. V. Neugebauer.
125 23 34.0	12 34 45.8	7 15 16.3	620.6242	0.5047852	Berberich.
315 49 0.2	7 26 3.1	10 9 28.8	645.0171	0.4936236	Berberich.
93 25 31.0	2 39 14.7	10 2 23.8	639.5018	0.4961099	Berberich.
48 21 10.9	5 38 57.3	8 22 34.3	820.6462	0.423900	Kromm.
345 47 13.2	13 41 2.2	7 30 49.9	739.9493	0.4538697	Witt.
167 7 26.1	20 15 35.6	9 34 42.5	719.3456	0.4620460	Berberich.
128 46 8.2	17 57 51.9	13 47 16.3	782.6076	0.4376414	Ogburn.
355 28 53.3	6 28 59.6	3 28 2.8	680.7507	0.4780123	Berberich.
282 46 45.1	8 7 8.8	3 53 14.7	842.4772	0.416299	Peyra.
305 34 11.1	12 8 55.9	7 28 40.3	821.022	0.423768	Coniel.
212 42 11.7	23 2 49.0	18 0 7.6	1004.2640	0.3654391	Berberich.
211 52 31.8	15 42 21.3	10 13 36.9	694.356	0.472283	Berberich.
214 28 57.3	14 54 43.5	19 14 19.0	766.9701	0.4434854	Berberich.
68 21 10.6	6 15 39.4	13 11 32.3	771.095	0.441933	Coniel.
260 2 6.3	3 31 42.0	7 16 9.6	764.391	0.444461	Capon.
251 27 25.2	2 37 50.3	10 18 30.4	782.986	0.437501	Coniel.
228 43 14.7	12 43 55.5	14 23 37.9	829.8698	0.420664	Mader.
284 14 19	20 9 57	— — —	684.68	0.47634	Charlois.
347 10 50.0	13 10 6.5	4 3 55.0	665.8314	0.4844282	Berberich.
328 49 40.9	10 36 55.7	5 15 50.9	641.871	0.495039	Berberich.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M			ω
	1907	Gr.								
401 Ottilia	März 5	12.6	12.6	8.2	1905 Dez. 24.0	1910.0	220° 5'	45.6	197° 2'	51.2
402 Chlœ	Febr. 3	10.0	10.7	7.7	1895 März 27.5	1910.0	28 44	8.7	12 26	25.6
403 Cyane	Dez. 44	11.5	12.0	8.5	1905 Juli 17.0	1910.0	153 9	6.5	247 54	30.1
404 Arsinoë	März 12	12.2	13.0	10.0	1905 Nov. 14.0	1910.0	214 53	8.0	118 51	5.8
405 Thia	Mai 14	9.5	11.0	8.0	1895 Juli 27.0	1910.0	73 36	35.0	305 12	7.9
406 Erna	Jan. 2	13.7	13.5	9.8	1905 Aug. 31.5	1910.0	352 15	46.2	34 30	49.2
407 Arachne	Juli 16	11.7	11.9	8.7	1904 Dez. 9.0	1910.0	67 27	29.6	78 13	22.4
408 Fama	Dez. 39	13.0	13.4	9.2	1895 Okt. 15.5	1910.0	354 28	32.9	100 36	33.0
409 Aspasia	Okt. 23	11.0	10.7	7.6	1903 Okt. 19.5	1910.0	163 47	0.0	351 8	7.6
410 [1896 CII]	—	—	11.9	8.5	1906 April 17.5	1906.0	311 22	7.1	168 46	55.9
411 [1896 CJ]	—	—	12.5	8.7	1906 Jan. 24.5	1910.0	185 43	46.2	174 42	24.4
412 Elisabetha	Juli 21	11.9	11.9	8.5	1904 Dez. 29.0	1910.0	252 59	27.0	92 48	23.5
413 Edburga	Nov. 2	10.3	12.2	9.2	1896 Jan. 10.5	1910.0	72 21	21.0	248 52	42.0
414 [1896 CN]	Nov. 4	12.8	13.4	8.6	1898 April 24.0	1910.0	184 57	33.5	299 54	3.1
415 Palatia	Juni 9	12.9	11.6	8.1	1900 Jan. 0.0	1910.0	351 8	15.5	293 39	15.0
416 Vaticana	Nov. 14	12.4	11.5	8.0	1902 Okt. 21.5	1910.0	114 14	16.4	195 25	17.1
417 Suevia	Okt. 2	13.4	12.7	9.2	1906 Juli 12.0	1910.0	93 17	23.1	343 21	43.5
418 Alemannia	März 20	13.2	12.6	9.5	1905 Dez. 24.0	1910.0	60 41	21.9	123 1	58.9
419 Aurelia	Jan. 17	12.1	11.1	8.0	1905 Nov. 14.0	1910.0	122 33	26.4	39 36	58.0
420 Bertholda	Mai 25	12.4	12.3	7.7	1904 Dez. 29.0	1910.0	359 57	43.4	216 25	36.5
421 Zähringia	Mai 8	15.5	14.2	11.2	1904 Mai 23.0	1910.0	298 7	36.1	205 57	54.5
422 Berolina	—	—	13.4	11.2	1896 Dez. 4.5	1910.0	43 3	30.9	333 4	23.2
423 Diotima	Dez. 3	11.4	11.2	7.2	1906 Sept. 30.0	1910.0	87 12	6.0	193 49	7.5
424 Gratia	April 9	13.1	12.8	9.3	1903 Mai 29.0	1910.0	174 2	31.1	329 36	33.8
425 Cornelia	Jan. 27	12.9	13.1	9.4	1897 Jan. 20.5	1910.0	295 5	56.3	118 48	56.6
426 [1897 DH]	Sept. 10	12.0	11.5	7.8	1897 Sept. 30.0	1910.0	172 10	55.2	221 45	45.3
427 [1897 DJ]	Juli 31	12.4	12.8	9.0	1905 Jan. 14.5	1910.0	184 20	0.0	5 55	16.4
428 Monachia	Juli 31	13.2	13.5	11.1	1900 Aug. 7.5	1910.0	300 39	10.6	13 51	45.2
429 [1897 DL]	Jan. 25	12.6	12.6	9.4	1905 Sept. 22.5	1910.0	331 42	21.7	166 36	34.0
430 [1897 DM]	—	—	13.2	9.6	1898 Jan. 21.5	1910.0	15 12	12.0	174 56	25.2
431 [1897 DN]	Aug. 25	11.6	12.6	8.5	1898 Jan. 18.5	1910.0	97 29	58.4	209 23	20.7
432 Pythia	Aug. 26	10.8	11.3	8.7	1906 Febr. 2.0	1910.0	258 54	29.7	172 15	56.3
433 Eros	Okt. 5	10.1	9.7	10.6	1907 Okt. 15.0	1910.0	285 40	28.0	177 46	3.8
434 Hungaria	—	—	11.8	10.4	1906 Aug. 21.0	1910.0	22 48	32.4	122 45	18.5
435 Ella	—	—	12.1	9.3	1906 Nov. 9.0	1910.0	44 18	22.6	331 7	16.6
436 Patricia	März 19	13.3	12.9	8.7	1906 Febr. 2.0	1910.0	90 41	57.0	23 21	16.1
437 [1898 DP]	—	—	12.7	10.1	1906 Nov. 9.0	1910.0	77 29	16.7	59 5	58.1
438 [1898 DU]	—	—	11.8	8.0	1902 Nov. 23.5	1910.0	149 12	37.6	200 28	41.2
439 Ohio	Mai 8	13.0	12.7	8.6	1900 Jan. 0.0	1910.0	30 57	55.5	231 8	28.1
440 Theodora	Juni 18	13.1	13.1	10.9	1898 Okt. 18.5	1910.0	284 37	41.8	176 6	6.2

Ω	i	φ	μ	Log. a	Autorität
38° 59' 4.6	6° 5' 47.1	2° 40' 12.6	583.3070	0.5227396	Berberich.
129 42 3.3	11 50 5.2	6 24 49.0	868.759	0.407405	Coniel.
245 49 39.0	9 8 8.8	5 49 4.3	753.7444	0.4485217	Berberich.
92 48 21.3	14 3 57.8	11 41 13.6	849.07766	0.4140395	Berberich.
256 8 35.2	11 48 17.6	14 32 24.7	856.814	0.411412	Coniel.
317 9 4.5	4 14 56.5	10 10 53.0	710.727	0.465535	Berberich.
295 5 50.7	7 31 34.9	4 1 59.5	834.7038	0.4189828	Berberich.
299 37 51.7	9 6 14.2	7 54 31.1	627.210	0.501729	Berberich.
242 44 32.8	11 12 44.4	3 53 20.9	857.3857	0.411221	Kromm.
97 22 29.4	10 53 15.7	13 45 44.0	788.824	0.435346	P. V. Neugebauer.
108 9 35.1	15 36 26.1	6 53 35.1	705.017	0.467871	Berberich.
106 41 22.8	13 45 36.1	2 27 5.2	772.8598	0.4412713	Berberich.
105 12 38.6	18 52 24.9	19 43 23.0	856.555	0.411501	Berberich.
113 29 44.5	9 38 22.8	5 29 23.8	540.7539	0.544671	Berberich.
128 20 25.3	8 5 38.4	17 36 27.4	762.3720	0.445227	Coddington.
58 38 36.6	12 55 45.4	12 35 49.6	761.6611	0.4454966	Boccardi.
199 57 17.3	6 35 42.7	8 3 59.2	758.7057	0.4466221	Berberich.
249 11 17.0	6 49 0.3	6 49 13.7	850.3282	0.4136133	Berberich.
230 20 26.9	3 57 37.5	14 44 44.3	848.6381	0.4141894	Berberich.
246 23 45.1	6 37 27.3	2 31 41.4	563.6312	0.5326744	Berberich.
188 3 30.6	7 51 32.7	17 0 44.2	877.5633	0.4044855	Berberich.
9 0 42.8	5 0 17.4	12 22 39.2	1066.4426	0.348046	Witt.
70 19 25.1	11 15 54.4	1 57 21.5	660.6148	0.4867056	Berberich.
99 33 41.2	8 12 20.8	6 22 47.8	768.5707	0.442882	P. V. Neugebauer.
61 44 9.2	4 4 24.3	3 26 47.8	724.2913	0.460062	Pourteau.
312 6 53.5	19 37 42.9	5 53 54.4	722.4562	0.460797	Pourteau.
298 57 20.1	5 8 14.6	6 53 23.4	693.666	0.4725708	Berberich.
17 29 37.6	6 13 32.7	10 15 44.4	1009.005	0.364076	Villiger.
220 16 20.5	9 30 55.5	7 5 38.8	842.413	0.416321	Berberich.
250 0 10.6	14 33 20.9	14 55 51.9	743.475	0.452494	Berberich.
117 14 29.4	1 48 58.3	9 43 27.5	642.4286	0.494788	Pokrowsky.
88 37 32.4	12 7 37.7	8 24 45.4	973.3410	0.3744944	Berberich.
303 37 3.5	10 49 41.2	12 52 58.8	2015.0581	0.1638127	Witt.
174 45 32.2	22 29 53.6	4 14 37.1	1308.8789	0.2887381	Berberich.
23 9 37.1	1 50 18.7	8 53 54.8	925.2776	0.3891563	Berberich.
352 3 5.4	18 36 7.8	4 45 46.3	622.0996	0.5040978	Berberich.
263 43 57.1	7 22 52.2	14 16 23.4	962.0481	0.3778732	Berberich.
49 27 2.4	7 14 50.7	2 57 7.6	869.450	0.407174	P. V. Neugebauer.
202 36 22.0	19 7 7.5	4 11 33.9	640.6167	0.495606	Coddington.
292 31 23.3	1 35 48.6	6 11 19.0	1079.355	0.344562	Coddington.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
	1907	Gr.						
441 [1898 ED] . .	Okt. 17	12.3	12.5	9.0	1898 Dez. 14.0	1910.0	345 51 15.9	197 38 38.4
442 Eichsfeldia . .	Juli 2	11.9	12.1	9.6	1904 Sept. 20.0	1900.0	137 33 29.2	82 6 9.8
443 Photographica .	Okt. 6	12.6	12.5	10.2	1904 Okt. 30.0	1910.0	251 50 36.2	347 14 3.7
444 Gytis	Jan. 9	11.5	11.2	7.7	1899 Mai 30.5	1910.0	229 43 57.5	151 34 11.6
445 Edna	Febr. 5	13.2	12.6	8.4	1900 Jan. 0.0	1910.0	19 1 55.0	77 37 38.4
446 Aeternitas . .	Mai 2	11.4	11.4	7.9	1899 Okt. 30.0	1910.0	55 26 20.6	277 33 39.1
447 Valentine . .	April 1	12.3	12.1	8.2	1904 Okt. 10.0	1910.0	345 51 50.7	316 23 5.9
448 Natalie	Febr. 3	14.2	13.4	9.3	1899 Nov. 29.5	1910.0	47 48 18.5	292 17 12.2
449 Hamburga . .	Okt. 3	12.4	12.0	9.0	1901 März 20.0	1910.0	38 7 28.0	44 40 10.3
450 Brigitta . . .	März 25	12.7	12.2	8.3	1899 Nov. 9.5	1910.0	19 17 44.8	358 38 58.3
451 Patientia . .	April 29	11.1	10.7	6.7	1900 Jan. 0.0	1910.0	9 31 9.7	334 51 32.7
452 [1899 FD] . .	—	—	16.7	13.1	1899 Dez. 31.0	1910.0	296 42 7.9	46 40 54.3
453 [1900 FA] . .	Juni 5	11.6	12.3	10.2	1902 Dez. 20.0	1910.0	243 0 28.6	217 47 49.9
454 Mathesis . . .	—	—	11.6	8.5	1900 April 28.5	1910.0	352 56 10.1	174 34 18.7
455 Bruchsalia . .	Febr. 3	12.6	11.6	8.3	1905 Sept. 15.0	1910.0	6 13 6.0	269 31 14.4
456 Abnoba . . .	Dez. 29	13.5	12.9	9.4	1906 Nov. 9.0	1910.0	154 20 18.2	2 50 8.1
457 Alleghenia . .	—	—	15.1	11.0	1900 Okt. 28.5	1910.0	351 0 33.8	129 8 9.7
458 Hercynia . .	Jan. 28	13.3	13.1	9.1	1900 Okt. 31.0	1910.0	338 37 5.7	272 19 18.5
459 Signe	Mai 8	14.7	13.7	10.5	1900 Okt. 22.5	1910.0	348 14 27.2	17 55 45.7
460 Scania	März 20	14.4	13.9	10.5	1900 Okt. 22.5	1910.0	14 38 31.6	163 33 0.4
461 Saskia	—	—	14.3	10.1	1900 Okt. 22.5	1910.0	310 1 24.7	301 28 37.2
462 Eriphyla . . .	Febr. 5	13.7	13.5	9.7	1902 Jan. 14.0	1910.0	117 17 57.2	251 16 30.3
463 Lola	—	—	14.0	11.4	1900 Okt. 31.5	1910.0	19 49 32.2	325 32 26.0
464 Megaira . . .	April 5	13.4	12.2	8.6	1901 Jan. 9.5	1910.0	92 54 0.7	252 34 33.5
465 Alekto	Febr. 21	12.7	13.5	9.3	1901 Jan. 23.5	1910.0	293 53 59.6	272 32 36.0
466 Tisiphone . .	Jan. 13	11.7	11.8	7.3	1901 Jan. 19.5	1910.0	293 29 20.8	261 21 5.5
467 Laura	April 7	14.7	14.3	10.5	1901 Febr. 11.5	1910.0	55 52 57.2	91 48 52.0
468 Lina	Febr. 20	14.0	13.1	9.0	1901 Febr. 22.5	1910.0	118 51 21.4	331 2 19.6
469 Argentina . .	—	—	11.5	7.3	1901 Febr. 26.5	1901.0	172 11 8	— — —
470 Kilia	—	—	12.4	9.1	1902 Okt. 21.0	1910.0	138 56 9.4	43 50 53.3
471 Papagena . .	Okt. 23	8.5	10.1	6.2	1901 Mai 18.5	1910.0	235 25 5.6	315 39 14.1
472 Roma	—	—	11.5	8.5	1902 Nov. 30.0	1910.0	11 2 44.3	288 44 48.4
473 Nollis	—	—	13.3	9.5	1901 Febr. 13.5	1910.0	95 13 40.1	57 6 40.8
474 Prudentia . .	—	—	13.0	10.2	1901 März 13.5	1910.0	223 19 18.1	142 45 18.1
475 Oello	Jan. 14	14.2	13.5	10.2	1905 Juni 17.0	1910.0	317 7 14	301 29 56
476 Hedwig	—	—	11.3	8.1	1902 Dez. 10.0	1910.0	156 21 50.5	356 54 43.2
477 Italia	Febr. 14	13.2	12.1	9.5	1905 Nov. 3.5	1910.0	45 50 41.6	320 20 13.4
478 Tergeste . . .	Dez. 11	10.5	10.9	7.0	1904 Mai 5.0	1910.0	81 38 55.7	240 34 25.2
479 Caprera . . .	Jan. 28	12.5	13.0	9.6	1901 Nov. 15.5	1910.0	2 12 53.0	269 14 42.1
480 Hansa	Dez. 16	11.3	11.5	8.3	1901 Mai 21.5	1910.0	179 11 11.8	196 39 14.1

Ω	i	φ	μ	Log. a	Autorität
254° 20' 3.7	8° 7' 11.7	4° 37' 18.6	753.698	0.448538	Coniel.
134 38 45.4	6 3 42.0	4 0 17.7	987.3699	0.3703512	Thraen.
175 9 7.3	4 13 16.8	2 16 53.6	1075.5910	0.3455729	Berberich.
196 21 12.9	10 12 24.0	10 0 34.5	768.83204	0.4427834	Fabry.
293 31 41.4	21 23 34.9	11 57 45.5	624.2829	0.503084	Coddington.
42 40 49.5	10 39 3.8	7 7 3.2	761.5980	0.4455205	Pauly.
72 27 11.5	4 49 5.6	2 40 14.9	686.5435	0.475559	Kreutz.
38 52 17.9	12 41 52.5	9 54 2.5	636.068	0.497668	Berberich.
85 58 49.8	3 6 4.6	10 3 32.4	870.9880	0.406664	J. Möller.
15 37 54.5	10 23 9.4	5 21 56.4	677.749	0.479292	Paetsch.
90 3 39.9	15 14 8.1	4 29 58.9	662.7246	0.4857823	Roediger.
92 51 38.8	3 13 15.1	1 13 23.3	736.622	0.455174	Palmer.
11 34 23.4	5 34 28.0	6 14 36.0	1099.965	0.339085	Hessen.
32 41 20.7	6 19 18.7	6 19 30.5	832.9439	0.419594	Milham.
77 27 47.9	12 1 55.1	16 54 25.9	818.7085	0.4245849	Berberich.
229 44 19.0	14 26 8.9	10 26 41.9	763.4835	0.4448046	Berberich.
250 46 42.0	12 52 29.5	10 20 2.3	651.8517	0.490572	Paetsch.
136 4 46.1	12 36 10.3	14 8 5.4	685.852	0.475851	Riem.
29 49 51.8	10 22 44.4	12 19 50.0	832.007	0.419920	Bauschinger.
205 45 2.7	4 35 26.1	5 53 49.8	791.305	0.434442	Bauschinger.
156 40 56.9	1 22 20.6	11 54 22.6	624.571	0.502950	Bauschinger.
105 51 12.7	3 10 28.0	4 54 25.8	729.7361	0.4578938	Berberich.
36 34 17.3	13 29 59.6	12 42 56.7	960.910	0.378216	Berberich.
103 51 32.4	10 51 46.9	14 39 57.7	742.582	0.452841	Berberich.
305 33 19.5	4 37 48.6	13 45 49.7	622.160	0.504070	Bauschinger.
291 52 41.6	19 22 25.5	3 37 51.8	581.9514	0.523414	Winther.
323 56 20.1	6 24 26.3	6 20 17.4	704.103	0.468247	Berberich.
22 26 55.3	0 29 45.3	11 47 14.8	637.306	0.497106	Bauschinger.
331 51 18	17 40 58	— — —	620.85	0.50468	Berberich.
173 15 58.1	7 13 35.5	5 29 58.5	952.3542	0.380805	Kreutz.
84 46 12.7	15 24 51.8	13 31 48.3	727.070	0.458954	Meurk.
127 11 58.7	15 37 53.9	5 54 15.3	872.686	0.406099	Paetsch.
333 35 9.8	27 46 32.2	14 48 41.2	690.051	0.474084	Berberich.
162 55 11.4	7 32 22.0	8 27 23.1	916.700	0.391853	Berberich.
35 53 33	18 38 42	22 22 4	848.6730	0.414177	Strömgen.
286 41 44.8	10 56 39.3	4 16 2.1	823.2035	0.4229996	Strömgen.
10 44 48.5	5 18 41.0	10 57 18.2	944.572	0.383182	G. Abetti.
234 47 14.1	13 9 38.6	4 58 6.5	677.025	0.4796008	de Mello e Simas.
136 31 40.9	8 39 23.8	12 42 44.4	788.048	0.435636	Bauschinger.
237 12 44.8	21 4 48.4	2 25 49.4	826.814	0.421732	Bauschinger.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M			∞		
	1907	Gr.										
481 Emita . . .	März 23	12.1	11.6	8.2	1907 März 9.0	1910.0	104	59	56.4	345	50	34.8
482 Petrina . . .	Febr. 24	12.1	12.0	8.1	1902 Mai 7.5	1910.0	288	7	6.3	85	31	11.3
483 Seppina . .	—	—	12.5	7.9	1902 April 30.5	1910.0	229	13	7.9	136	58	49.2
484 Pittsburghia	Juli 14	12.6	12.9	9.7	1906 April 3.0	1910.0	235	12	27.0	185	49	40.1
485 Genua . . .	Juni 11	12.3	11.4	8.0	1904 Okt. 3.5	1910.0	294	18	38.9	268	33	3.0
486 Cremona . .	Nov. 19	14.4	13.5	11.0	1902 Mai 28.5	1910.0	16	33	54.5	125	7	57.5
487 Venetia . .	Okt. 19	11.4	11.8	8.6	1906 Juni 22.5	1910.0	240	27	48.1	278	17	50.4
488 Kreusa . . .	April 3	10.9	11.5	7.3	1906 Jan. 0.5	1906.0	302	39	32.2	62	35	41.4
489 Comacina .	—	—	12.5	8.3	1902 Sept. 2.5	1910.0	139	29	9.0	28	29	52.4
490 Veritas . . .	Juli 18	12.1	12.3	8.1	1902 Sept. 3.5	1910.0	348	28	27.2	187	46	6.0
491 Carina . . .	Juli 23	12.6	12.5	8.3	1903 Jan. 0.0	1910.0	340	41	39.1	225	2	45.0
492 Gismonda .	Juli 21	12.1	13.1	9.0	1902 Sept. 4.0	1910.0	12	56	28.0	287	27	2.1
493 Griseldis . .	—	—	14.5	10.4	1902 Sept. 7.5	1910.0	329	46	50.6	38	26	36.2
494 Virtus . . .	Okt. 13	12.5	12.3	8.4	1902 Nov. 27.5	1910.0	144	15	51.5	209	9	31.0
495 Eulalia . . .	—	—	12.5	9.7	1902 Nov. 21.5	1910.0	20	56	40.0	200	0	35.6
496 Gryphia . .	April 4	13.2	13.0	11.0	1902 Nov. 21.5	1910.0	331	47	44.7	240	34	28.4
497 [1902 KJ] .	Dez. 14	12.6	13.5	9.9	1902 Nov. 4.5	1910.0	20	53	34.8	358	54	17.3
498 Tokio . . .	—	—	11.2	8.1	1904 März 14.0	1910.0	167	52	1.5	237	34	18.5
499 Venusia . . .	Juli 19	13.9	13.0	7.7	1903 Jan. 31.5	1910.0	9	23	52.0	195	51	25.8
500 Selinur . . .	—	—	12.0	8.9	1903 März 4.5	1910.0	99	39	4.6	71	48	18.3
501 Urhixidur .	Dez. 1	13.0	13.0	8.8	1903 Jan. 19.5	1910.0	119	32	12.0	346	41	52.2
502 Sigune . . .	März 3	12.6	13.8	11.2	1907 Febr. 17.0	1910.0	2	59	40.1	16	59	22.3
503 Evelyn . . .	—	—	12.3	9.0	1903 April 25.5	1910.0	33	37	22.7	38	7	0.1
504 Cora	Okt. 28	11.4	12.5	9.1	1906 Mai 13.0	1910.0	268	19	32.4	244	38	4.4
505 Cava	Sept. 27	11.1	12.0	8.7	1906 Juni 22.0	1910.0	214	31	44.1	333	54	7.6
506 [1903 LN] .	—	—	12.5	8.5	1903 Febr. 20.5	1910.0	46	27	14.1	144	59	20.9
507 Laodica . .	Dez. 28	12.2	12.5	8.3	1903 Febr. 24.5	1910.0	104	44	50.4	94	33	57.4
508 [1903 LQ] .	—	—	12.3	8.1	1903 April 25.5	1910.0	4	34	0.9	161	33	54.7
509 Iolanda . . .	Jan. 23	11.4	11.5	7.5	1906 Jan. 28.5	1905.0	39	8	50.3	153	10	40.0
510 Mabella . . .	April 12	12.7	13.0	9.8	1903 Juli 18.5	1910.0	337	43	3.1	88	50	3.1
511 Davida . . .	Febr. 15	9.0	9.6	5.4	1903 Aug. 15.5	1910.0	182	38	38.9	329	14	19.3
512 Taurinensis	—	—	12.5	10.5	1903 Juli 16.5	1910.0	310	15	34.2	246	49	13.0
513 Centesima .	Mai 26	12.7	12.3	8.4	1903 Okt. 24.5	1910.0	327	27	39.5	208	58	33.7
514 Armida . . .	Mai 12	12.6	12.4	8.4	1903 Aug. 25.5	1910.0	325	52	38.1	107	55	8.1
515 Athalia . . .	—	—	14.0	9.9	1903 Sept. 20.5	1910.0	317	8	30.0	288	44	14.8
516 Amherstia .	Sept. 5	11.3	11.0	7.7	1903 Sept. 26.5	1910.0	125	30	8.9	254	19	13.6
517 [1903 MI] .	—	—	13.1	9.0	1903 Okt. 25.5	1910.0	339	41	33.4	125	52	36.5
518 [1903 MO] .	Okt. 28	12.7	13.4	10.5	1903 Okt. 20.5	1910.0	47	47	29.0	118	29	22.7
519 [1903 MP] .	Juli 25	11.1	12.0	8.5	1903 Okt. 26.5	1910.0	35	32	9.8	301	18	13.7
520 Franziska .	Juli 17	14.1	13.9	10.0	1903 Okt. 27.5	1910.0	355	18	52.9	16	18	2.0

Ω	i	φ	μ	Log. a	Autorität
67° 5' 43.9	9° 52' 33.4	9° 10' 37.1	782.8688	0.437545	Osten.
180 20 8.8	14 27 21.8	5 18 49.8	683.838	0.476703	P. V. Neugebauer.
175 44 3.9	18 39 28.5	2 57 13.3	559.620	0.534742	Paetsch.
127 26 45.0	12 29 12.2	3 23 42.7	813.1477	0.4265580	Berberich.
194 22 25.9	13 48 10.4	10 57 57.6	777.060	0.439700	P. V. Neugebauer.
94 11 26.5	11 6 47.3	9 20 22.6	977.329	0.373311	Berberich.
115 5 38.9	10 14 19.0	4 57 29.6	812.90250	0.4266456	Bianchi.
86 36 25.6	11 36 16.4	9 21 6.0	633.233	0.498962	Morgan.
167 37 5.1	13 24 57.5	3 47 16.7	634.671	0.498305	Berberich.
179 15 21.1	9 13 7.2	5 7 59.7	627.551	0.501572	Münch.
176 1 20.6	18 56 44.4	3 42 55.3	620.5529	0.504821	Lassen.
47 13 18.7	1 39 33.0	10 34 19.0	649.105	0.491795	Hessen.
358 41 15.8	15 25 42.0	9 17 51.5	641.417	0.495244	Berberich.
39 4 55.2	7 8 37.6	3 37 33.6	688.142	0.474886	G. Abetti.
186 27 59.0	2 14 13.1	8 28 23.6	910.120	0.393938	P. V. Neugebauer.
204 45 14.2	3 37 6.6	4 15 29.6	1103.453	0.338168	Berberich.
7 1 39.4	4 53 46.0	17 25 44.2	740.971	0.453470	Berberich.
98 1 47.9	9 33 4.0	12 47 51.8	823.2586	0.422980	P. V. Neugebauer.
256 45 22.3	2 0 25.2	13 34 32.1	457.624	0.592999	Berberich.
290 29 11.7	9 47 15.7	8 8 23.0	840.020	0.417144	Berberich.
358 4 33.5	20 49 30.8	8 14 41.4	630.916	0.500024	P. V. Neugebauer.
132 41 16.8	25 3 43.4	10 17 7.7	965.064	0.376967	Osten.
69 31 24.1	5 3 33.4	10 12 32.5	788.475	0.435479	Liebmann.
105 17 50.4	12 56 51.8	12 29 56.1	789.9212	0.434949	Osten.
91 8 58.6	9 47 30.8	14 7 17.0	805.49685	0.4292952	Osten.
313 36 55.5	16 53 18.3	8 19 48.2	669.497	0.482389	Berberich.
295 14 4.1	9 33 26.6	5 47 47.4	632.696	0.499208	Bauschinger.
45 20 39.5	13 24 2.0	0 40 50.2	631.586	0.499716	Berberich.
218 22 31.6	15 22 47.8	5 34 11.6	660.724	0.486658	P. V. Neugebauer.
203 23 1.5	9 28 57.9	11 31 18.2	831.384	0.420136	Berberich.
108 52 52.4	15 49 27.2	11 6 49.0	631.096	0.499941	Wegener.
107 9 26.7	8 40 0.2	14 23 28.7	1107.602	0.337032	Berberich.
185 49 9.3	9 28 24.1	5 0 12.4	677.958	0.479204	P. V. Neugebauer.
270 25 52.5	3 51 49.5	2 41 34.8	665.538	0.484556	Berberich.
122 6 47.5	2 0 50.7	10 3 36.2	645.556	0.493382	Berberich.
330 33 22.7	13 3 4.3	15 50 55.2	807.729	0.428494	Fontana.
277 45 24.7	3 9 58.2	10 6 5.7	641.8172	0.4950634	A. Kohlschütter.
203 57 40.2	6 37 46.0	12 42 29.2	885.773	0.401789	Berberich.
45 27 21.8	10 53 2.3	10 30 59.2	766.154	0.443793	Berberich.
35 5 35.2	11 0 18.8	6 0 18.2	680.357	0.478180	Götz.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		n
	1907	Gr.							
521 Brixia . . .	Aug. 24	11.2	12.1	8.7	1906 Juni 2.5	1910.0	216° 38'	38.2	312 29 2
522 Helga . . .	Juni 10	12.7	12.6	7.7	1904 Jan. 10.5	1904.0	105 10	19.0	243 3 2
523 [1904 ND] .	Sept. 14	12.7	12.8	9.0	1904 Jan. 27.5	1910.0	27 56	2.5	185 12 2
524 Fidelio . . .	—	—	12.4	9.2	1904 März 18.5	1910.0	105 51	23.0	76 35 2
525 Adelaide . .	Juni 24	14.6	13.8	9.3	1904 März 18.5	1910.0	69 22	2.8	281 27 2
526 Jena . . .	Okt. 28	13.1	13.1	9.0	1904 April 10.5	1910.0	43 52	44.9	357 31 2
527 Euryanthe .	—	—	12.5	9.2	1904 März 20.5	1910.0	258 56	2.1	199 42 2
528 Rezia . . .	Okt. 28	12.3	12.4	7.8	1904 März 24.5	1910.0	156 3	49.2	337 43 2
529 Preziosa . .	Dez. 15	12.6	13.0	9.1	1904 März 24.5	1910.0	138 10	8.7	336 38 2
530 Turandot . .	Dez. 41	13.2	12.4	8.2	1904 April 18.5	1910.0	268 13	53.6	188 19 2
531 Zerlina . . .	—	—	14.0	10.5	1904 April 12.5	1910.0	329 16	0.7	53 51 2
532 Herculina . .	Dez. 41	9.3	9.8	6.3	1904 Mai 5.5	1910.0	18 56	34.1	72 59 2
533 [1904 NZ] .	Dez. 40	13.7	13.5	9.6	1904 April 19.5	1910.0	335 57	42.3	58 34 2
534 [1904 OA] .	—	—	12.8	9.2	1904 Mai 19.5	1910.0	128 10	32.6	344 51 2
535 [1904 OC] .	—	—	11.8	8.8	1904 Juni 3.5	1910.0	86 4	14.8	58 53 2
536 Merapi . . .	Dez. 31	11.8	11.7	7.0	1904 Mai 12.0	1910.0	254 58	24.4	292 45 2
537 [1904 OG] .	Jan. 8	14.1	13.1	9.1	1904 Juli 15.5	1910.0	350 27	47.1	181 9 2
538 Friederike .	Febr. 11	13.7	13.2	9.0	1904 Juli 19.5	1910.0	318 36	36.4	222 52 2
539 Pamina . . .	März 24	14.1	13.1	9.7	1904 Aug. 5.5	1910.0	325 31	4.8	94 0 2
540 Rosamunde .	Juni 25	12.2	12.1	10.0	1904 Aug. 6.5	1910.0	132 29	40.5	334 22 2
541 Deborah . . .	Febr. 14	13.0	12.9	9.4	1904 Aug. 4.5	1910.0	60 42	30.4	349 21 2
542 Susanna . . .	März 25	13.4	12.8	9.0	1904 Aug. 16.5	1910.0	345 9	28.2	212 57 2
543 Charlotte . .	April 5	13.4	12.7	8.7	1904 Nov. 11.5	1910.0	348 26	5.2	105 5 2
544 Jetta	April 4	12.3	12.6	9.5	1904 Nov. 6.5	1910.0	89 4	27.2	338 21 2
545 Messalina . .	Febr. 10	13.0	12.2	8.0	1904 Okt. 13.5	1910.0	59 7	57.0	326 53 2
546 Herodias . .	Juni 19	12.6	12.1	9.0	1904 Okt. 13.5	1910.0	259 39	22.4	107 27 2
547 Praxedis . .	Mai 3	13.8	12.7	9.2	1904 Nov. 17.5	1910.0	11 9	44.8	193 37 2
548 Kressida . .	Aug. 10	13.3	13.2	10.8	1904 Okt. 14.5	1910.0	336 36	46.1	318 23 2
549 Jessonda . .	Juli 3	14.6	13.5	10.2	1904 Dez. 27.5	1910.0	358 10	57.7	153 34 2
550 Senta	Mai 22	11.2	11.9	8.8	1906 Febr. 22.0	1910.0	202 36	44.3	42 55 2
551 Ortrud . . .	Juni 2	13.4	12.8	9.0	1905 Jan. 15.5	1910.0	12 40	32.4	62 4 2
552 Sigelinde . .	Mai 14	11.8	12.2	8.0	1905 Jan. 9.5	1910.0	206 12	40.7	329 43 2
553 Kundry . . .	Okt. 12	13.2	13.7	11.5	1905 Jan. 9.5	1910.0	16 23	30.6	357 52 2
554 Peraga . . .	Sept. 13	10.3	10.8	8.2	1905 Jan. 0.0	1910.0	41 20	15.3	124 24 2
555 Norma	Juli 9	14.6	13.9	9.7	1905 Jan. 14.5	1910.0	2 59	42.0	350 52 2
556 Phyllis . . .	Sept. 13	12.6	12.5	9.7	1905 Jan. 16.5	1910.0	15 36	17.7	175 3 2
557 Violetta . . .	Okt. 2	13.9	13.7	11.0	1905 Jan. 14.5	1910.0	1 42	52.4	190 0 2
558 Carmen . . .	Aug. 12	12.4	12.2	8.5	1905 Febr. 9.5	1910.0	41 17	34.4	314 40 2
559 Nanon	Nov. 13	12.7	12.3	9.0	1905 April 20.5	1910.0	321 9	51.5	125 32 2
560 Delila	Sept. 15	13.9	13.4	10.0	1905 März 13.5	1910.0	22 18	46.4	33 12 2

Ω	i	φ	μ	Log. a	Autorität
90° 28' 56.2	10° 29' 27.9	16° 15' 47.3	780.12109	0.4385631	Millosevich.
119 12 34.6	4 26 19.9	4 32 44.0	513.919	0.559408	Lassen.
262 13 56.0	4 18 47.0	10 8 17.0	694.113	0.472384	Berberich.
327 6 38.6	8 11 46.3	6 24 2.8	825.223	0.422290	Berberich.
125 54 33.5	3 15 5.6	21 46 42.6	581.342	0.523718	P. V. Neugebauer.
137 54 50.6	2 8 33.5	7 59 43.6	643.463	0.4943222	Grabowski.
120 46 3.7	9 39 56.4	8 38 46.0	787.582	0.435808	P. V. Neugebauer.
51 49 29.5	12 42 51.3	1 8 5.7	566.409	0.531251	Berberich.
65 53 19.6	11 3 40.1	5 45 4.2	676.264	0.479926	P. V. Neugebauer.
130 9 13.2	8 26 1.0	10 27 17.8	611.920	0.508874	P. V. Neugebauer.
197 49 0.0	34 33 0.7	10 54 44.6	756.474	0.447475	Berberich.
108 19 46.1	16 22 36.6	10 6 31.8	768.8133	0.4427907	Götz.
180 44 25.0	6 23 16.4	3 25 57.8	685.108	0.476166	P. V. Neugebauer.
93 39 56.2	3 19 29.4	5 47 47.7	725.560	0.459556	Bauschinger.
84 45 17.8	6 48 8.9	1 51 11.1	862.724	0.409423	Dugan.
60 56 14.5	19 24 8.1	5 38 12.5	541.600	0.544219	Strömgren.
121 24 30.4	9 46 21.3	13 3 35.4	659.540	0.487179	P. V. Neugebauer.
142 24 22.1	6 36 23.2	9 22 44.9	630.980	0.499994	P. V. Neugebauer.
275 38 29.8	6 47 21.6	12 20 17.6	782.672	0.437618	P. V. Neugebauer.
202 1 49.9	5 33 15.2	5 3 8.0	1074.237	0.345938	P. V. Neugebauer.
268 30 54.8	5 57 29.6	2 33 35.6	751.048	0.449560	P. V. Neugebauer.
153 36 20.7	12 2 13.0	8 13 33.7	717.690	0.462713	Berberich.
296 40 42.9	8 26 57.2	9 2 0.8	662.328	0.485955	Berberich.
298 53 17.1	8 19 4.4	8 37 38.8	849.653	0.413843	Berberich.
334 53 36.1	11 10 9.1	10 18 50.9	622.540	0.503893	Berberich.
22 0 59.4	14 54 14.2	6 30 4.0	847.004	0.414747	Berberich.
193 29 59.2	16 56 38.9	13 46 3.9	769.074	0.442693	Berberich.
108 6 36.2	3 52 2.4	10 43 4.5	1029.495	0.358255	Berberich.
292 25 37.8	3 55 44.4	14 55 43.6	805.659	0.429237	Berberich.
271 4 28.4	10 6 47.1	12 38 44.0	850.6748	0.4134954	Berberich.
9 2 55.5	0 26 16.7	7 2 31.5	694.369	0.472277	Berberich.
268 49 48.1	7 26 1.8	4 3 57.6	631.413	0.499796	Berberich.
71 58 47.4	5 17 7.4	6 21 40.1	1073.630	0.346101	Berberich.
295 48 6.5	2 56 14.3	8 54 53.0	969.164	0.375740	Berberich.
130 57 4.1	2 38 44.7	8 50 39.9	624.247	0.503100	Berberich.
285 55 15.3	5 14 18.5	5 46 43.4	915.845	0.392123	Berberich.
293 25 59.7	2 31 9.7	5 35 58.3	926.968	0.388628	Berberich.
144 19 47.1	8 21 1.0	2 14 1.0	715.481	0.463606	Berberich.
112 27 18.8	9 18 13.9	3 45 2.0	794.666	0.433215	Berberich.
103 45 8.8	8 13 39.4	7 5 19.7	778.172	0.439287	Berberich.

Nr. und Name	Opposition		m.	g	Epoche und Oskulation	Mittl. Äqu.	M		e	
	1907	Gr.								
561 Ingwelde . .	Aug. 2	14.5	13.9	9.7	1905 März 30.5	1910.0	67° 22'	32.6	302° 12'	58.7
562 Salome . . .	Nov. 2	12.7	12.9	9.0	1905 April 8.5	1910.0	241 39	15.7	257 21	3.7
563 Suleika . . .	Nov. 7	9.6	11.1	7.8	1905 Mai 30.5	1910.0	153 53	28.2	333 32	22.6
564 Dudu	Dez. 33	15.0	13.7	10.3	1905 Mai 9.5	1910.0	329 11	6.8	211 29	56.6
565 Marbachia .	Dez. 37	12.4	12.9	10.2	1905 Mai 9.5	1910.0	69 45	0.0	290 15	39.7
566 Stereoskopia	Nov. 8	10.8	11.5	7.0	1905 Juni 1.5	1910.0	232 36	44.7	303 22	29.6
567 Eleutheria .	Nov. 3	13.6	13.1	9.0	1905 Juni 3.5	1910.0	34 48	12.4	149 57	2.9
568 Cheruskia . .	Jan. 4	11.5	12.3	8.6	1905 Aug. 21.5	1910.0	291 43	54.1	170 31	48.8
569 Misa	Febr. 3	11.7	12.4	9.2	1905 Sept. 5.5	1910.0	280 29	19.6	137 35	59.3
570 [1905 QX] .	—	—	12.7	8.1	1905 Aug. 3.5	1905.0	323 12	44.3	139 6	27.6
571 [1905 QZ] .	—	—	13.8	11.2	1905 Okt. 2.5	1905.0	345 47	59.8	23 33	31.7
572 [1905 RB] .	—	—	12.9	10.5	1905 Sept. 19.5	1905.0	339 5	16.1	198 29	21.5
573 [1905 RC] .	—	—	13.2	9.2	1905 Sept. 19.5	1905.0	346 7	29.5	28 47	19.4
574 [1905 RD] .	—	—	14.3	12.0	1905 Okt. 29.5	1905.0	339 36	10.0	67 34	47.1
575 [1905 RE] .	—	—	13.5	10.5	1905 Okt. 4.5	1905.0	28 6	33.6	337 56	23.0
576 [1905 RF] .	—	—	12.7	8.8	1905 Sept. 22.5	1905.0	11 14	22.6	31 22	17.8
577 [1905 RH] .	—	—	13.0	8.9	1905 Okt. 30.5	1905.0	71 29	57.1	321 2	20.1
578 [1905 RZ] .	—	—	12.0	8.6	1905 Nov. 1.5	1905.0	100 27	0.3	257 57	4.2
579 [1905 SD] .	—	—	11.5	7.6	1905 Nov. 23.5	1905.0	97 39	16.0	231 12	20.2
580 [1905 SE] .	—	—	13.7	9.6	1906 Febr. 12.5	1906.0	31 51	48.2	315 12	51.6
581 Tauntonia .	—	—	—	—	1905 Dez. 24.5	1906.0	28 33	46.5	320 23	24.2
582 [1906 SO] .	—	—	12.6	9.5	1906 Jan. 23.5	1906.0	19 35	13.9	308 33	13.0
583 [1905 SP] .	—	—	13.1	8.9	1906 Jan. 0.0	1906.0	295 18	26.6	239 22	34.7
584 [1906 SY] .	—	—	11.5	8.9	1906 Jan. 15.5	1906.0	84 51	19.1	83 0	48.8
585 [1906 TA] .	—	—	12.7	10.0	1906 Febr. 16.5	1906.0	7 29	29.6	326 1	34.7
586 [1906 TC] .	—	—	12.9	9.0	1906 Febr. 21.5	1906.0	49 39	30.5	218 57	10.8
587 [1906 TF] .	—	—	14.3	11.8	1906 März 18.5	1906.0	3 2	13.5	185 45	39.4
588 [1906 TG] .	—	—	13.7	7.2	1906 Febr. 22.5	1906.0	48 57	23.6	120 25	50.0
589 [1906 TM] .	—	—	12.7	8.6	1906 März 23.5	1906.0	141 5	33.1	210 53	19.3
590 [1906 TO] .	—	—	13.1	9.2	1906 April 2.5	1906.0	96 46	55.1	329 49	54.8
591 [1906 TP] .	—	—	13.5	10.3	1906 März 18.5	1906.0	346 2	9.3	215 31	40.7
592 [1906 TS] .	—	—	12.8	8.9	1906 März 23.5	1906.0	103 51	54.2	248 14	0.0
593 [1906 TT] .	—	—	12.4	9.1	1906 März 20.5	1906.0	49 9	33.4	27 49	33.0
594 [1906 TW] .	—	—	15.0	11.8	1906 März 30.5	1906.0	336 10	41.3	76 0	15.3
595 [1906 TZ] .	—	—	12.1	7.8	1906 März 31.5	1906.0	282 23	56.4	266 1	27.2
596 [1906 UA] .	—	—	12.0	8.2	1906 Febr. 22.5	1906.0	296 49	40.2	172 26	34.6
597 [1906 UB] .	—	—	12.8	9.5	1906 April 16.5	1906.0	287 19	14.6	273 58	45.0
598 [1906 UC] .	—	—	12.0	8.5	1906 April 16.5	1906.0	161 51	51.1	285 27	58.7
599 [1906 UJ] .	—	—	12.4	8.8	1906 Mai 16.5	1906.0	283 43	19.5	288 49	31.8
600 [1906 UM] .	—	—	13.0	9.8	1906 Juni 22.5	1906.0	12 41	3.5	112 42	28.8

Ω	i	q	μ	Log. a	Autorität
160 33 57.6	I 30 49.2	8 42 31.0	624.357	0.503049	Berberich.
71 41 19.7	II 8 31.6	5 25 14.8	677.324	0.479473	Berberich.
84 55 34.2	10 20 46.8	13 56 47.2	792.084	0.434157	Berberich.
71 19 29.8	18 II 23.1	15 49 3.5	778.746	0.439074	Berberich.
225 54 9.2	10 53 58.1	7 18 40.0	931.272	0.387286	Berberich.
81 31 55.4	5 I 28.0	6 55 16.7	577.344	0.525714	Berberich.
59 10 18.8	8 59 6.6	4 55 30.7	641.903	0.495025	Berberich.
150 II 39.3	18 21 5.4	9 40 10.3	725.727	0.459489	Berberich.
303 8 3.3	I 17 10.0	10 12 17.8	822.367	0.423294	Berberich.
129 40 2.4	I 41 10.8	6 28 5.2	559.597	0.534754	Berberich.
3 19 55.5	5 7 13.9	13 48 56.0	969.479	0.375645	Berberich.
194 47 36.9	9 23 29.8	10 0 31.0	1008.005	0.364362	Berberich.
143 50 22.4	9 52 7.4	6 22 6.9	678.763	0.478859	Berberich.
138 15 57.3	6 10 49.5	11 46 23.9	1048.529	0.352951	Berberich.
149 34 54.8	14 54 12.3	6 58 24.8	866.098	0.408293	Berberich.
100 8 18.7	10 II 59.9	10 59 27.9	672.075	0.481725	Berberich.
131 II 59.7	5 16 21.4	8 17 18.0	644.417	0.493893	P. V. Neugebauer.
30 31 23.1	6 II 43.7	11 9 8.7	775.472	0.440294	Kreutz.
83 17 41.2	II 2 4.4	4 35 58.0	677.103	0.479568	P. V. Neugebauer.
99 37 11.1	3 40 33.5	7 38 52.2	618.613	0.505726	P. V. Neugebauer.
03 4 49.0	21 55 39.7	2 30 51.4	615.963	0.506968	Morgan.
55 35 43.4	29 57 20.4	13 4 0.2	837.303	0.418083	Berberich.
61 23 24.1	8 17 15.4	8 31 10.8	629.074	0.500870	Osten.
82 40 55.2	10 50 12.8	14 24 37.0	962.562	0.377718	P. V. Neugebauer.
80 10 41.0	7 30 56.8	7 29 19.0	937.316	0.385414	P. V. Neugebauer.
30 57 4.6	I 35 37.2	4 27 6.5	674.790	0.480558	P. V. Neugebauer.
24 10 17.9	25 I 28.8	9 29 40.6	995.965	0.367842	Berberich.
15 34 6.8	10 20 53.0	9 38 42.6	295.133	0.719993	Berberich.
78 40 43.0	10 47 16.4	2 54 51.2	640.839	0.495506	P. V. Neugebauer.
06 43 54.5	11 9 39.7	3 53 41.4	684.296	0.476508	Berberich.
34 48 7.7	12 33 48.8	12 I 41.4	807.881	0.428440	Berberich.
59 12 7.1	10 6 33.4	7 I 12.3	676.021	0.480030	P. V. Neugebauer.
76 14 47.2	17 0 15.9	12 17 10.9	799.698	0.431387	Berberich.
55 20 27.6	32 45 46.3	20 27 11.7	833.298	0.419471	Berberich.
24 58 7.0	18 29 24.6	4 35 38.5	617.433	0.506278	P. V. Neugebauer.
71 4 34.6	14 38 14.4	9 26 11.2	706.587	0.467228	Berberich.
36 13 21.2	10 17 13.3	10 28 40.2	803.648	0.429960	Berberich.
32 26 6.5	12 10 13.9	14 5 50.8	770.503	0.442154	Berberich.
15 32 11.8	16 23 13.5	17 28 25.4	764.318	0.444489	} Hammond und } Frederickson.
39 34 54.6	10 II 20.0	3 8 12.2	817.198	0.425120	

Nr. und Name	Opposition		m_0	g	Epoche und Oskulation	Mittl. Äqu.	M			
	1907	Gr.								
601 [1906 UN] .	—	—	12.6	8.5	1906 Aug. 12.5	1906.0	336° 25'	50.8	145° 40'	16.3
[1894 BD] .	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337 18	8.4	356 39	18.9
[1900 GA] .	—	—	18.0	16.0	1900 Juni 30.5	1900.0	350 15	39.3	196 8	5.5
[1902 JT] .	—	—			1902 Okt. 23.5	1902.0	33 40	54.1	245 30	35.0
[1904 OR] .	—	—			1904 Okt. 3.5	1904.0	357 7	3.9	60 22	31.4

Kreisbahnen.

Planet	m_0	Epoche	Argument der Breite	Ω	i	μ	Log. μ
1892 S. . .	13.0	1892 Dez. 17.5	77° 35' 50"	358° 7' 42"	3° 27' 18"	835.80	0.41860
1893 C. . .	13.5	1893 Jan. 23.5	167 48 0	321 27 42	3 33 48	1182.9	0.31804
1893 D. . .	12.5	1893 Jan. 19.5	348 50 15	133 20 53	11 44 34	681.61	0.47764
1893 U. . .	13.0	1893 April 10.5	93 23 42	88 59 54	7 49 6	944.3	0.38330
1893 X. . .	13	1893 März 21.5	112 50 17	72 17 48	1 34 4	423.40	0.61550
1893 Y. . .	13	1893 April 17.5	79 39 46	124 24 8	0 18 4	549.95	0.53980
1894 AW. . .	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 CU. . .	12.0	1896 Sept. 3.5	100 46 25	243 53 26	5 51 46	692.17	0.47320
1898 DW. . .	13.5	1898 Nov. 19.5	181 1 17	229 11 55	14 40 58	841.15	0.41675
1898 DX. . .	—	1898 Nov. 19.5	182 5 12	227 3 49	22 26 34	589.39	0.51973
1898 DY. . .	13.5	1898 Nov. 13.5	198 18 19	216 46 18	3 15 55	673.12	0.48128
1898 DZ. . .	12.5	1898 Nov. 17.5	174 26 37	239 40 46	3 53 1	881.73	0.40312
1898 EA. . .	13	1898 Nov. 13.5	181 15 2	227 33 5	27 23 43	508.71	0.56236
1900 FE. . .	12.5	1900 März 6.5	33 49 36	129 37 12	13 13 24	882.1	0.40300
1900 FL. . .	14.0	1900 Sept. 28.5	152 4 21	197 51 1	6 39 4	768.78	0.44280
1901 HC. . .	—	1901 Nov. 12.5	202 51 49	193 51 50	16 21 55	701.06	0.46950
1901 HD. . .	—	1901 Nov. 15.5	339 15 43	62 43 50	29 31 43	592.93	0.51800

Mittleres Äquinoktium des Jahresanfangs.

Ω	i	φ	μ	Log. a	Autorität
170° 32' 27.6	16° 2' 33.3	6° 1' 18.2	643.392	0.494355	Palisa.
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	Berberich.
97 36 55.6	6 56 23.1	16 22 55.0	1122.174	0.33298	Leuschner.
80 11 55.9	2 28 7.5	11 54 31.0	637.160	0.497172	Berberich.
301 18 11.1	5 28 38.8	9 4 57.1	642.729	0.494652	Berberich.

Kreisbahnen.

Planet	m_0	Epoche	Argument der Breite	Ω	i	μ	Log. a
1902 <i>HY</i> .	—	1902 Juni 2.5	164° 42' 33"	68° 13' 39"	9° 0' 13"	656.86	0.48836
1903 <i>LD</i> .	—	1903 Jan. 18.5	181 6 10	300 36 51	15 33 1	754.21	0.44834
1903 <i>LZ</i> .	—	1903 Aug. 30.5	153 22 42	189 17 0	9 22 0	759.30	0.44640
1903 <i>MC</i> .	—	1903 Sept. 29.5	185 33 38	167 13 30	26 16 59	564.44	0.53225
1903 <i>MD</i> .	—	1903 Sept. 29.5	358 34 29	354 45 52	14 35 22	654.46	0.48942
1903 <i>MF</i> .	—	1903 Sept. 29.5	183 25 53	171 9 13	10 55 45	783.09	0.43746
1903 <i>MM</i> .	—	1903 Okt. 14.5	181 15 12	195 37 36	4 56 48	714.71	0.46392
1903 <i>MN</i> .	—	1903 Okt. 24.5	350 9 6	39 35 0	7 51 54	945.90	0.38276
1903 <i>NF</i> .	—	1903 Dez. 18.5	216 0 54	230 11 48	15 16 54	849.85	0.41380
1903 <i>NG</i> .	—	1903 Nov. 14.5	178 3 42	230 52 18	8 38 12	649.73	0.49152
1904 <i>OD</i> .	—	1904 Mai 14.5	186 3 33	42 38 38	12 53 11	610.50	0.50954
1904 <i>OP</i> .	—	1904 Sept. 5.5	45 37 34	293 4 6	13 37 4	735.20	0.45572
1904 <i>QW</i> .	—	1904 April 4.5	70 11 57	108 54 13	11 14 22	716.53	0.46318
1905 <i>RN</i> .	—	1905 Okt. 24.5	63 34 0	336 9 12	3 12 42	828.93	0.42100
1906 <i>SJ</i> .	—	1906 Febr. 3.0	180 10 15	300 28 49	10 37 42	669.39	0.48288
1906 <i>UK</i> .	12.9	1906 Mai 14.5	102 21 52	131 2 1	12 20 4	776.69	0.43984

Mittleres Äquinoktium des Jahresanfangs.

508 OPPOSITIONEN DER KL. PLANETEN FÜR 1907.

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
406 Erna	Jan. 2	13.7	6 ^h 44.6	+26° 50'	1.0	0	0.304	1905
568 Chernuskia . .	4	11.5	6 58.5	+ 5 23	1.0	- 5	0.190	1905
387 Aquitania . .	8	10.9	7 13.8	+13 4	0.9	+ 5	0.383	1904
537 [1904 OG] . .	8	14.1	7 14.1	+19 8	0.8	+ 3	0.438	1905
444 Gyptis	9	11.5	7 17.8	+ 6 55	0.9	+ 2	0.300	1905
368 Haidea	10	14.3	7 26.5	+12 28	0.8	+ 1	0.415	1893
329 Svea	10	12.2	7 26.8	- 2 15	0.9	+ 4	0.194	1905
305 Gordonia . . .	11	11.2	7 28.6	+14 36	0.9	+ 2	0.174	1905
224 Oceana	12	11.8	7 35.6	+29 51	1.1	+ 2	0.229	1905
354 Eleonora . . .	13	9.5	7 35.8	+ 7 28	0.9	+ 9	0.192	1902
8 Flora	13	8.6	7 36.8	+22 8	1.2	+ 6	0.044	1905
226 Weringia . . .	13	14.1	7 37.4	+12 46	0.9	+ 7	0.359	1904
466 Tisiphone . . .	13	11.7	7 38.2	+21 5	1.0	- 3	0.363	1901
234 Barbara	13	12.5	7 39.7	+ 9 7	1.0	+ 7	0.251	1901
212 Medea	14	11.8	7 43.4	+23 46	0.9	+ 1	0.279	1905
475 Occeo	14	14.2	7 44.3	+48 6	1.4	+ 2	0.321	1905
419 Aurelia	17	12.1	7 55.4	+15 23	1.0	+ 2	0.333	1905
351 Yrsa	17	11.3	7 57.3	+25 27	0.9	+ 7	0.134	1904
69 Hesperia	18	9.7	8 0.6	+ 7 22	0.8	+ 4	0.181	1905
216 Kleopatra . . .	21	9.9	8 11.5	- 0 59	0.9	+ 3	0.230	1905
219 Thusnelda . . .	21	12.2	8 14.2	+ 3 3	1.0	+ 4	0.245	1905
509 Iolanda	23	11.4	8 19.2	- 5 26	0.8	+ 3	0.308	1906
245 Vera	25	12.5	8 28.1	+26 3	0.9	+ 4	0.311	1903
429 [1897 DL] . . .	25	12.6	8 28.9	+ 3 34	0.9	+ 2	0.221	1905
213 Lilaea	26	12.4	8 34.6	+19 20	0.9	+ 5	0.326	1905
217 Eudora	26	14.6	8 35.2	+10 7	0.8	+ 4	0.441	1905
425 Cornelia	27	12.9	8 38.1	+24 23	0.9	+ 4	0.254	1905
458 Hercynia	28	13.3	8 39.1	+15 31	0.8	+ 8	0.233	1905
479 Caprera	28	12.5	8 41.3	+16 10	0.9	+ 7	0.187	1901
211 Isolda	28	10.8	8 41.5	+13 55	0.8	+ 3	0.236	1905
21 Lutetia	31	10.9	8 53.0	+21 18	1.2	+ 5	0.260	1904
165 Loreley	31	11.4	8 55.0	+15 14	0.9	+ 1	0.368	1902
569 Misa	Febr. 3	11.7	9 6.0	+16 10	1.0	+ 3	0.127	1905
455 Bruchsalia . . .	3	12.6	9 6.0	+31 17	1.0	+ 6	0.348	1905
448 Natalie	3	14.2	9 6.6	+34 40	0.9	+ 3	0.429	1899
402 Chloë	3	10.0	9 8.1	+18 10	0.9	+11	0.109	1904
445 Edna	5	13.2	9 11.4	+ 2 35	0.9	0	0.408	1905
30 Urania	5	10.1	9 13.1	+15 37	1.1	+ 4	0.151	1904
* 84 Klio	5	12.4	9 15.4	+19 2	1.1	+ 2	0.268	1905
462 Eriphyla	5	13.7	9 15.9	+18 22	0.7	+ 4	0.314	1905

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 509

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
344 Desiderata . .	Febr. 6	12.9	9 ^h 17.6 ^m	+43° 16'	1.2 ^m	+ 4'	0.366	1905
129 Antigone . . .	6	10.3	9 18.4	+15 26	0.8	+ 8	0.280	1903
143 Adria	7	12.4	9 19.8	+21 17	1.0	+ 1	0.243	1895
341 California . . .	9	14.2	9 27.1	+24 4	1.2	+ 5	0.216	1905
105 Artemis	9	11.2	9 31.0	-11 52	0.9	+ 9	0.160	1904
169 Zelia	9	12.1	9 31.2	+20 6	1.1	+ 4	0.225	1905
545 Messalina . . .	10	13.0	9 35.0	+18 28	0.8	+ 2	0.437	1904
257 Silesia	11	12.6	9 35.2	+19 57	0.9	+ 4	0.302	1905
97 Klotho	11	10.0	9 37.1	+ 7 39	0.9	+10	0.139	1903
538 Friederike . .	11	13.7	9 37.8	+14 7	0.8	+ 5	0.399	1904
259 Altheia	11	12.3	9 40.0	+26 43	0.8	+ 5	0.349	1905
317 Roxane	11	12.6	9 41.6	+13 24	1.0	+ 6	0.172	1905
477 Italia	14	13.2	9 47.0	+19 41	1.0	+ 4	0.275	1906
541 Deborah	14	13.0	9 47.0	+ 5 13	0.9	+ 3	0.273	1904
299 Thora	14	14.6	9 49.6	+10 23	1.0	+ 5	0.177	1903
511 Davida	15	9.0	9 54.8	+27 26	0.8	+ 8	0.268	1905
228 Agathe	18	15.8	10 3.7	+10 46	1.0	+ 4	0.241	1905
468 Lina	20	14.0	10 10.0	+11 55	0.7	+ 4	0.434	1901
384 Burdigala . . .	20	11.3	10 10.4	+21 9	1.0	+ 4	0.175	1905
390 Alma	20	12.5	10 10.7	+ 0 45	1.0	0	0.128	1901
465 Alekto	21	12.7	10 15.1	+ 7 18	0.8	+ 3	0.243	1901
375 Ursula	21	11.5	10 16.3	+13 18	0.9	+ 1	0.389	1905
52 Europa	21	9.8	10 17.0	+15 8	0.8	+ 7	0.262	1905
246 Asporina	22	11.8	10 19.6	+ 6 18	0.8	+10	0.241	1903
239Adrastea	22	14.7	10 19.6	+ 6 3	0.8	+ 6	0.356	1900
215 Oenone	22	12.9	10 20.6	+12 35	0.9	+ 5	0.273	1905
482 Petrina	24	12.1	10 28.6	+ 0 31	0.7	+ 8	0.318	1905
322 Phaeo	24	13.3	10 29.3	- 2 36	0.8	+ 5	0.376	1905
16 Psyche	24	10.1	10 29.4	+ 9 53	0.8	+ 5	0.343	1905
59 Elpis	25	11.4	10 30.5	+ 5 56	0.8	+ 7	0.288	1905
36 Atalante	26	12.1	10 37.9	+22 9	1.1	0	0.257	1896
282 Clorinde	27	13.2	10 38.0	+12 22	0.8	+10	0.112	1904
189 Phthia	28	11.8	10 42.2	+ 2 0	1.0	+ 7	0.188	1905
162 Laurentia . . .	März 1	11.2	10 44.9	+17 29	0.8	+ 4	0.174	1905
269 Justitia	1	13.0	10 45.0	+ 8 17	0.9	+ 7	0.239	1899
502 Sigune	3	12.6	10 53.1	+30 52	0.7	+21	0.004	1904
11 Parthenope . . .	4	9.8	10 56.1	+11 32	0.9	+ 7	0.226	1905
331 Etheridgea . . .	4	12.9	10 58.9	+12 44	0.8	+ 4	0.367	1905
401 Ottilia	5	12.6	11 0.9	+14 13	0.8	+ 4	0.361	1904
373 Melusina	5	13.5	11 2.3	+15 15	0.9	+ 2	0.412	1904

510 OPPOSITIONEN DER KL. PLANETEN FÜR 1907.

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
277 Elvira	März 5	13.6	11 ^h 3.1 ^m	+ 4° 25'	0.8	+ 5	0.335	1905
264 Libussa	9	12.6	11 16.0	+20 5	0.8	+ 4	0.318	1905
356 Liguria	10	11.8	11 17.1	+ 6 38	1.0	+ 3	0.226	1905
* 95 Arethusa	11	11.9	11 24.2	-14 34	0.7	+ 5	0.390	1905
404 Arsinoë	12	12.2	11 25.2	+29 58	0.8	+ 7	0.096	1903
40 Harmonia	12	9.5	11 25.9	+11 28	1.0	+ 7	0.141	1904
* 79 Eurynome	13	11.0	11 30.4	- 1 13	0.9	+ 7	0.224	1905
236 Honoria	14	12.3	11 35.1	+ 0 4	0.8	+ 7	0.368	1904
302 Clarissa	15	14.0	11 37.0	+ 4 2	1.0	+ 5	0.173	1905
70 Panopaea	16	11.5	11 44.7	+17 45	1.0	+ 4	0.277	1900
365 Corduba	17	12.8	11 45.1	- 1 38	0.7	+ 8	0.322	1906
62 Erato	17	12.9	11 46.4	+ 4 3	0.8	+ 5	0.393	1886
* 82 Alkmene	19	10.1	11 53.8	+ 3 21	0.9	+ 4	0.105	1905
436 Patricia	19	13.3	11 53.9	- 3 6	0.9	+ 1	0.389	1904
460 Scania	20	14.4	11 58.6	- 3 5	0.8	+ 7	0.301	1905
418 Alemannia	20	13.2	11 59.1	-10 18	0.7	+ 6	0.281	1905
173 Ino	20	12.1	11 59.2	+10 41	0.8	+ 8	0.385	1904
177 Irma	21	13.5	11 58.4	- 0 13	0.8	+ 5	0.370	1906
481 Emita	23	12.1	12 4.3	+14 47	0.9	+ 4	0.288	1905
539 Pamina	24	14.1	12 10.7	-11 43	0.8	+ 5	0.368	1906
450 Brigitta	25	12.7	12 13.8	+ 2 7	0.8	+ 3	0.361	1904
542 Susanna	25	13.4	12 17.0	+ 7 12	0.7	+ 7	0.367	1906
50 Virginia	27	13.1	12 21.0	- 1 24	0.8	+ 6	0.382	1906
29 Amphitrite	27	9.4	12 24.1	- 4 16	0.9	+ 3	0.228	1905
372 Palma	29	10.8	12 30.6	-30 59	0.9	+ 2	0.362	1906
* 68 Leto	31	11.3	12 34.9	+ 3 49	0.8	+ 4	0.354	1906
186 Celuta	31	12.0	12 38.1	- 2 4	1.1	+ 2	0.205	1905
447 Valentine	April 1	12.3	12 39.3	+ 2 40	0.8	+ 4	0.327	1906
238 Hypatia	1	12.2	12 39.4	- 2 14	0.7	+ 8	0.332	1904
391 Ingeborg	1	14.7	12 40.2	-16 49	0.9	+10	0.302	1904
39 Laetitia	1	10.0	12 41.3	+ 4 18	0.8	+ 7	0.319	1906
225 Henrietta	2	12.8	12 45.6	- 9 11	0.7	+ 9	0.380	1905
363 Padua	3	12.0	12 46.0	+ 3 3	0.8	+ 4	0.289	1905
488 Kreusa	3	10.9	12 46.8	+13 35	0.8	+ 4	0.268	1906
389 Industria	3	10.8	12 47.2	-19 55	0.9	+ 5	0.162	1904
544 Jetta	4	12.3	12 49.1	-20 4	0.9	+ 5	0.173	1906
496 Gryphia	4	13.2	12 51.0	- 6 46	0.9	+ 8	0.086	1902
137 Meliboea	4	12.0	12 52.5	- 8 51	0.7	+ 8	0.355	1906
464 Megaira	5	13.4	12 55.1	+10 28	0.8	+ 4	0.406	1901
272 Antonia	5	13.6	12 56.0	- 2 58	0.9	+ 4	0.249	1890

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 511

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
543 Charlotte . . .	April 5	13.4	12 ^h 57.2 ^m	-18° 48'	0.8	+ 4'	0.399	1906
147 Protogeneia . .	7	12.7	12 59.7	- 8 47	0.8	+ 5	0.351	1906
85 Io	7	11.4	13 0.3	- 8 47	0.8	+ 8	0.277	1904
467 Laura	7	14.7	13 0.8	+14 46	0.9	+ 4	0.341	1901
* 35 Leukothea . .	8	10.8	13 4.2	-13 4	0.9	+ 1	0.126	1905
93 Minerva	8	10.5	13 5.6	-10 25	0.9	+ 2	0.209	1902
* 57 Mnemosyne . .	8	11.1	13 6.5	- 7 50	0.7	+ 8	0.390	1906
125 Liberatrix . .	9	11.1	13 7.9	- 3 25	0.7	+ 6	0.224	1904
424 Gratia	9	13.1	13 8.9	+ 6 2	0.8	+ 5	0.289	1905
284 Amalia	10	12.6	13 14.1	-16 20	0.9	+ 9	0.090	1901
315 Constantia . .	10	14.6	13 15.7	- 5 17	1.0	+ 7	0.164	1891
510 Mabella	12	12.7	13 22.4	- 9 1	0.8	+ 9	0.183	1904
319 Leona	15	15.2	13 31.8	- 5 43	0.6	+ 5	0.486	1904
*184 Dejopeja . . .	15	12.1	13 32.1	-11 6	0.8	+ 4	0.301	1906
258 Tyche	17	12.0	13 40.7	-10 42	0.8	+ 8	0.315	1906
359 Georgia	18	12.8	13 43.0	-14 49	0.9	+ 3	0.298	1906
130 Elektra	18	11.7	13 43.8	+16 6	0.8	+ 3	0.467	1904
256 Walpurga . .	19	12.9	13 46.8	- 2 15	0.7	+ 8	0.260	1899
18 Melpomene . .	19	10.4	13 48.9	+ 2 47	0.9	+ 7	0.255	1904
295 Theresia	20	14.2	13 50.4	-15 12	0.8	+ 5	0.338	1906
74 Galatea	22	12.8	13 58.1	-10 39	0.8	+ 5	0.372	1902
183 Istria	25	14.2	14 10.7	+21 1	0.8	+ 4	0.447	1906
333 Badenia	26	13.4	14 11.6	-16 58	0.8	+ 3	0.410	1906
55 Pandora	26	11.5	14 11.6	-18 6	0.9	+ 3	0.323	1902
172 Baucis	26	10.6	14 15.4	-30 8	1.1	+ 2	0.165	1906
379 Huenna	27	13.2	14 18.9	-12 14	0.7	+ 4	0.392	1906
109 Felicitas	28	13.3	14 18.9	-20 39	0.9	+ 3	0.385	1897
112 Iphigenia	28	11.8	14 22.4	-18 34	1.0	+ 4	0.190	1906
451 Patientia	29	11.1	14 23.5	+ 5 5	0.8	+ 1	0.361	1904
31 Euphrosyne . .	Mai 2	11.5	14 35.2	-23 20	1.0	- 1	0.401	1899
446 Aeternitas . . .	2	11.4	14 35.5	-14 47	1.0	+ 1	0.254	1904
3 Juno	3	9.9	14 38.0	- 0 44	0.8	+ 5	0.368	1906
547 Praxedis	3	13.8	14 40.7	- 4 3	0.8	+ 7	0.381	1904
6 Hebe	6	9.4	14 49.6	+ 7 8	0.9	+ 4	0.277	1904
273 Atropos	6	11.1	14 50.8	+17 10	0.8	+ 8	0.091	1897
393 Lampetia	6	10.0	14 53.4	-11 30	0.8	+12	0.110	1906
9 Metis	6	9.4	14 53.9	-12 55	1.0	+ 3	0.212	1906
459 Signe	8	14.7	14 56.7	-21 45	1.0	+ 2	0.339	1900
131 Vula	8	11.8	14 57.1	-13 47	0.7	+ 3	0.100	1899
196 Philomela	8	10.3	15 0.6	-12 0	0.8	+ 2	0.318	1906

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Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
439 Ohio	Mai 8	13.0	15 ^h 0.7	- 5° 46'	0.7	+ 8	0.368	1902
421 Zähringia . . .	8	15.5	15 1.0	- 9 47	0.9	+ 5	0.351	1904
86 Semele	10	13.3	15 8.8	-13 20	0.8	+ 2	0.434	1906
514 Armida	12	12.6	15 15.6	-21 46	0.8	+ 4	0.334	1906
405 Thia	14	9.5	15 20.1	-27 54	0.8	+16	9.995	1905
552 Sigelinde . . .	14	11.8	15 24.6	-25 16	0.8	+ 5	0.286	1905
*199 Byblis	15	11.5	15 25.7	- 2 50	0.8	- 2	0.234	1903
307 Nike	18	13.8	15 35.7	-12 49	0.9	+ 2	0.364	1906
88 Thisbe	18	10.4	15 38.8	-25 14	0.8	+ 5	0.190	1906
115 Thyra	19	11.3	15 40.3	-36 53	1.1	+ 4	0.262	1904
*154 Bertha	19	10.8	15 43.2	-32 51	1.1	- 3	0.294	1906
230 Athamantis . .	21	10.5	15 50.9	-20 9	1.0	+ 7	0.168	1903
103 Hera	21	10.1	15 52.2	-11 30	0.9	+ 2	0.220	1906
550 Senta	22	11.2	15 52.5	-29 19	1.0	+ 8	0.118	1906
352 Gisela	23	12.8	15 56.4	-21 1	1.1	+ 4	0.160	1906
41 Daphne	23	8.8	15 57.0	+ 6 30	0.7	+ 5	0.041	1904
38 Leda	23	11.9	15 59.2	-29 9	1.0	+ 4	0.307	1906
335 Roberta	23	10.7	15 59.7	-10 44	0.9	+ 3	0.053	1906
60 Echo	23	11.8	16 4.1	-16 16	1.0	+ 3	0.229	1904
420 Bertholda . . .	25	12.4	16 5.3	-21 19	0.8	+ 4	0.400	1903
318 Magdalena . . .	25	13.6	16 8.3	- 6 1	0.7	+ 2	0.384	1906
513 Centesima . . .	26	12.7	16 12.7	- 9 20	0.8	+ 3	0.350	1903
128 Nemesis	28	11.0	16 18.6	-19 39	0.8	0	0.288	1906
383 Janina	30	14.1	16 27.5	-20 10	0.8	+ 1	0.417	1906
381 Myrrha	30	11.7	16 28.1	- 4 52	0.8	0	0.263	1903
83 Beatrix	31	11.0	16 31.4	-27 56	1.1	0	0.115	1904
127 Johanna	Juni 1	10.7	16 33.6	-30 5	1.0	0	0.268	1897
*118 Peitho	1	11.7	16 34.5	-26 49	1.1	0	0.260	1906
342 Endymion . . .	1	13.4	16 36.8	-18 39	0.9	+ 4	0.267	1904
551 Otrud	2	13.4	16 38.0	-22 41	0.9	+ 2	0.365	1905
20 Massalia	4	9.8	16 47.7	-21 37	1.0	+ 2	0.228	1906
453 [1900 FA] . . .	5	11.6	16 52.4	-32 52	1.2	0	9.981	1903
181 Eucharis	7	12.4	16 57.3	+ 1 33	0.8	+ 1	0.441	1906
237 Coelestina . . .	7	12.8	16 59.4	-20 14	1.0	- 3	0.197	1901
347 Pariana	9	11.7	17 5.3	-19 55	1.0	- 4	0.183	1906
415 Palatia	9	12.9	17 6.9	-14 4	0.8	+ 1	0.410	1905
522 Helga	10	12.7	17 9.9	-18 39	0.7	0	0.425	1904
141 Iumen	10	11.7	17 10.9	-39 15	1.2	+ 2	0.256	1901
208 Lacrimosa . . .	10	12.1	17 12.0	-25 37	0.9	+ 1	0.282	1906
151 Abundantia . . .	11	12.8	17 12.4	-29 59	1.1	- 1	0.198	1904

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 513

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
485 Genua	Juni 11	12.3	17 ^h 13.3 ^m	- 4° 52'	0.8	+2	0.350	1906
364 Isara	12	12.4	17 22.0	-19 0	1.1	-1	0.176	1904
275 Sapientia	14	11.9	17 29.4	-17 18	0.9	+1	0.239	1906
324 Bambergia	15	9.7	17 32.2	-40 0	1.2	+1	0.212	1905
110 Lydia	17	10.3	17 39.3	-27 58	1.0	-1	0.215	1906
440 Theodora	18	13.1	17 47.0	-24 38	1.1	+2	0.150	1905
546 Herodias	19	12.6	17 49.4	-44 36	1.3	-2	0.264	1904
111 Ate	21	11.8	17 55.2	-28 8	1.0	+1	0.261	1906
158 Koronis	21	12.6	17 59.1	-23 45	0.9	0	0.299	1906
525 Adelaide	24	14.6	18 11.3	-21 0	0.8	-1	0.460	1904
394 Arduina	24	12.1	18 11.4	-27 56	1.0	-4	0.133	1906
540 Rosamunde	25	12.2	18 11.9	-13 46	1.0	0	0.085	1904
* 17 Thetis	27	9.2	18 19.9	-18 0	0.9	-4	0.054	1906
370 Modestia	30	13.2	18 35.5	-26 26	1.2	+2	0.097	1904
*190 Ismene	30	12.8	18 36.1	-15 28	0.6	-1	0.555	1905
291 Alice	Juli 1	14.0	18 37.2	-20 21	1.1	-1	0.138	1901
316 Goberta	1	13.9	18 38.7	-21 45	0.8	-1	0.404	1891
442 Eichsfeldia	2	11.9	18 42.4	-16 47	1.0	-4	0.097	1906
243 Ida	3	13.5	18 44.9	-24 18	0.9	-3	0.292	1906
314 Rosalia	3	13.7	18 45.2	- 5 0	0.8	-2	0.285	1902
549 Jessonda	3	14.6	18 45.8	-24 11	1.0	0	0.366	1905
304 Olga	5	12.7	18 56.7	+ 3 20	0.9	-6	0.002	1906
399 Persephone	6	13.1	19 1.7	-40 25	1.0	0	0.326	1906
283 Emma	9	11.3	19 10.6	-26 45	0.9	+1	0.257	1902
332 Siri	9	12.1	19 13.4	-27 0	1.0	-2	0.191	1906
555 Norma	9	14.6	19 13.7	-20 53	0.8	-2	0.421	1905
*170 Maria	10	12.0	19 16.5	-28 5	1.1	+3	0.231	1904
32 Pomona	12	10.0	19 22.6	-13 24	1.0	-1	0.196	1904
350 Ornamenta	12	13.2	19 23.9	-33 27	0.9	-6	0.380	1906
123 Brunhild	12	12.3	19 24.7	-25 19	1.0	0	0.283	1905
56 Melete	14	9.7	19 31.6	- 5 32	0.8	-3	0.001	1906
484 Pittsburghia	14	12.6	19 33.2	-16 1	0.9	-7	0.178	1906
*178 Belisana	15	11.7	19 34.1	-24 39	1.0	-3	0.129	1906
15 Eunomia	16	8.5	19 39.2	-22 4	1.4	+2	0.200	1905
407 Arachne	16	11.7	19 39.5	-21 56	1.0	+1	0.194	1903
339 Dorothea	17	12.2	19 43.3	- 7 49	0.8	-2	0.244	1906
520 Franziska	17	14.1	19 45.4	-37 18	1.0	-3	0.331	1906
490 Veritas	18	12.1	19 46.3	- 8 44	0.8	-3	0.312	1904
242 Kriemhild	18	13.3	19 48.6	- 4 26	0.8	-2	0.348	1906
191 Kolga	18	11.9	19 49.4	- 8 38	0.8	-5	0.270	1906

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Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
499 Venusia . . .	Juli 19	13.9	19 ^h 52.2 ^m	-19° 17'	0.6	- 2	0.568	1903
152 Atala	19	12.6	19 54.6	-37 52	0.9	- 3	0.371	1905
271 Penthesilea . .	20	12.7	19 56.4	-24 24	0.9	- 2	0.294	1903
492 Gismonda . . .	21	12.1	19 58.1	-23 17	0.8	- 3	0.204	1904
116 Sirona	21	11.3	20 1.5	-24 54	1.1	- 2	0.311	1906
412 Elisabetha . . .	21	11.9	20 1.7	-24 49	0.9	- 7	0.246	1906
280 Philia	22	14.9	20 4.8	-31 2	0.9	- 2	0.347	1890
491 Carina	23	12.6	20 6.6	+ 2 25	0.7	- 5	0.352	1906
*148 Gallia	23	10.9	20 9.4	- 3 15	0.8	-10	0.241	1906
33 Polyhymnia . . .	24	9.8	20 12.5	-23 37	0.8	- 2	0.010	1904
519 [1903 MP] . . .	25	11.1	20 14.1	-38 19	1.0	- 5	0.148	1903
96 Aegle	26	11.8	20 20.0	-28 24	1.0	0	0.366	1903
301 Bavaria	30	12.4	20 36.2	-16 22	0.8	- 5	0.198	1903
171 Ophelia	31	12.6	20 38.2	-20 8	0.8	- 3	0.389	1906
157 Dejanira	31	14.6	20 39.5	-34 57	1.0	- 5	0.317	1905
13 Egeria	31	10.3	20 40.7	-44 24	1.2	- 6	0.267	1906
428 Monachia	31	13.2	20 41.5	-29 1	1.1	- 3	0.084	1897
427 [1897 DJ] . . .	31	12.4	20 41.9	-16 53	0.8	- 1	0.204	1905
* 65 Cybele	Aug. 2	10.7	20 47.3	-15 22	0.7	- 4	0.343	1906
561 Ingwelde	2	14.5	20 47.8	-16 45	0.8	- 3	0.412	1905
229 Adelinda	4	12.7	20 55.1	-20 46	0.7	- 3	0.289	1900
54 Alexandra	5	9.6	21 0.9	-17 37	1.0	+ 3	0.068	1905
91 Aegina	6	11.6	21 4.8	-19 43	0.9	- 3	0.240	1903
327 Columbia	9	12.6	21 14.9	-24 0	0.9	- 2	0.203	1903
185 Eunike	9	9.9	21 16.7	- 4 27	0.8	-13	0.184	1906
548 Kressida	10	13.3	21 19.7	-19 1	1.0	- 6	0.126	1904
281 Lucretia	10	13.4	21 20.8	-25 45	1.1	- 5	0.057	1906
334 Chicago	12	12.0	21 23.9	-15 46	0.6	- 4	0.454	1906
558 Carmen	12	12.4	21 24.4	-14 1	0.8	- 6	0.297	1905
81 Terpsichore . . .	13	11.6	21 28.6	-24 11	1.0	- 2	0.241	1903
*106 Dione	15	10.9	21 35.7	-21 34	0.8	- 4	0.281	1905
355 Gabriella	15	13.3	21 39.6	-17 48	1.0	- 3	0.222	1905
78 Diana	15	11.6	21 39.8	-16 53	0.9	- 3	0.325	1905
287 Nephthys	17	10.6	21 47.8	-13 58	0.9	-10	0.120	1906
250 Bettina	18	11.8	21 48.5	-30 59	0.9	- 2	0.381	1905
278 Paulina	18	13.0	21 49.2	-25 41	0.9	- 5	0.282	1906
45 Eugenia	19	10.6	21 53.9	-12 22	0.8	- 7	0.233	1906
249 Ilse	21	12.5	21 58.5	-15 14	1.1	+ 2	9.985	1905
44 Nysa	22	10.4	22 1.7	-13 54	0.9	- 6	0.227	1906
180 Garumna	23	14.0	22 5.7	-11 22	0.8	- 4	0.324	1899

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 515

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
73 Klytia	Aug. 24	12.0	22 ^h 8 ^m .8	-13° 59'	0.9	- 4	0.218	1905
521 Brixia	24	11.2	22 12.2	-27 35	0.8	- 9	0.136	1906
431 [1897 DN] . . .	25	11.6	22 12.3	-12 53	0.7	- 5	0.201	1902
432 Pythia	26	10.8	22 17.3	-31 11	0.9	- 8	0.089	1906
92 Undina	26	10.4	22 19.9	-22 24	0.7	- 7	0.278	1906
146 Lucina	27	11.1	22 22.8	-30 2	0.8	- 5	0.251	1906
395 Delia	28	12.5	22 26.5	- 3 41	0.8	- 5	0.190	1903
292 Ludovica	29	12.3	22 28.5	-35 10	1.1	- 2	0.179	1905
382 Dodona	29	12.4	22 28.5	- 5 29	0.8	- 3	0.350	1906
289 Nenetta	30	11.3	22 33.9	- 3 44	0.7	- 8	0.126	1906
*149 Medusa	31	11.9	22 35.2	- 8 52	1.0	- 6	0.045	1906
252 Clementina . . .	Sept. 1	12.6	22 39.6	+ 2 36	0.7	- 7	0.286	1902
117 Lomia	1	11.3	22 40.2	-13 54	0.9	- 1	0.290	1905
179 Klytæmnestra . .	2	10.9	22 41.4	+ 5 16	0.7	- 6	0.216	1902
12 Victoria	2	8.4	22 45.2	+10 33	0.8	- 7	9.966	1903
516 Amherstia	5	11.3	22 53.3	- 2 13	1.0	- 2	0.267	1906
367 Amicitia	5	12.9	22 56.9	-12 6	1.0	- 6	0.146	1906
159 Aemilia	6	12.5	23 0.3	-10 45	0.7	- 6	0.353	1906
104 Klymene	9	11.9	23 8.5	- 9 31	0.8	- 4	0.299	1905
300 Geraldina	9	12.2	23 9.1	- 6 31	0.7	- 4	0.317	1905
* 71 Niobe	10	11.3	23 12.6	+18 14	1.0	0	0.320	1905
426 [1897 DH]	10	12.0	23 13.6	+15 23	0.9	- 2	0.345	1903
297 Caecilia	11	12.5	23 15.9	- 1 19	0.8	- 2	0.247	1902
261 Prymno	11	12.4	23 18.2	-10 40	0.9	- 6	0.186	1900
*122 Gerda	12	11.7	23 18.7	- 4 1	0.7	- 5	0.374	1905
214 Aschera	12	12.2	23 21.7	- 3 24	0.9	- 4	0.217	1905
* 28 Bellona	13	10.6	23 21.1	-10 16	0.8	- 7	0.312	1906
556 Phyllis	13	12.6	23 23.3	+ 4 42	0.9	- 5	0.183	1905
371 Bohemia	13	11.8	23 23.9	+ 7 58	0.9	- 4	0.236	1905
554 Peraga	13	10.3	23 24.5	+ 1 2	0.9	- 5	0.076	1906
523 [1904 ND]	14	12.7	23 26.3	- 3 31	0.8	- 5	0.283	1904
120 Lachesis	15	11.9	23 29.9	- 1 20	0.8	- 3	0.348	1905
560 Delila	15	13.9	23 31.3	-15 15	0.8	- 6	0.308	1905
362 Havnia	17	10.9	23 37.3	-10 58	0.9	- 2	0.184	1905
89 Julia	18	9.0	23 41.5	+23 10	1.1	+ 3	0.055	1905
166 Rhodope	19	11.3	23 47.0	-17 51	0.7	-10	0.085	1897
102 Miriam	20	10.8	23 47.7	+ 4 54	0.7	- 8	9.992	1902
231 Vindobona	21	12.4	23 51.5	- 0 6	0.8	- 4	0.288	1902
265 Anna	24	14.8	0 1.6	+23 32	1.2	- 1	0.279	1902
168 Sibylla	24	11.2	0 3.7	+ 3 49	0.6	- 3	0.329	1904

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Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
298 Baptistina . .	Sept. 25	14.0	0 ^h 7.8	— 0° 28'	1.0	— 4	0.151	1902
197 Arete	25	11.8	0 8.1	—15 36	0.9	— 4	0.136	1906
505 Cava	27	11.1	0 14.8	—17 8	0.8	— 7	0.121	1905
64 Angelina	(Okt. 1	10.7	0 28.6	+ 4 59	0.8	— 5	0.254	1903
417 Suevia	2	13.4	0 31.8	+ 5 22	0.8	— 6	0.340	1906
557 Violetta	2	13.9	0 32.4	+ 7 53	0.9	— 6	0.183	1905
449 Hamburga . . .	3	12.4	0 36.6	— 1 15	0.9	— 6	0.237	1903
294 Felicia	4	13.2	0 37.1	— 4 42	0.7	— 6	0.193	1906
*433 Eros	5	10.1	0 40.5	+37 15	1.9	+ 7	9.723	1905
357 Ninina	5	12.0	0 43.5	—12 27	0.7	— 6	0.323	1893
443 Photographica	6	12.6	0 46.0	+ 2 34	0.9	— 8	0.111	1906
266 Aline	6	10.8	0 46.1	+21 14	0.7	—11	0.144	1902
374 Burgundia . . .	6	11.9	0 47.1	+11 24	0.8	— 8	0.285	1906
311 Claudia	7	13.1	0 48.6	+ 0 11	0.8	— 5	0.286	1905
23 Thalia	9	10.7	0 55.4	— 8 35	1.0	— 4	0.244	1905
251 Sophia	11	13.4	1 4.0	— 3 42	0.7	— 7	0.297	1904
338 Budrosa	12	12.0	1 5.9	+17 3	0.8	— 5	0.271	1904
553 Kundry	12	13.2	1 8.0	— 1 52	1.0	— 4	0.027	1905
235 Carolina	12	12.2	1 9.7	— 4 11	0.9	— 2	0.284	1900
494 Virtus	13	12.5	1 13.6	+ 3 50	0.8	— 3	0.323	1905
145 Adeona	14	11.5	1 16.8	—10 55	0.9	— 2	0.241	1901
326 Tamara	15	11.3	1 18.3	— 2 21	1.3	+ 4	0.143	1906
441 [1898 ED] . . .	17	12.3	1 26.1	+19 24	0.8	— 7	0.235	1906
10 Hygiea	18	10.0	1 30.1	+15 7	0.8	— 5	0.391	1906
376 Geometria . . .	19	12.3	1 33.4	+19 22	1.0	— 6	0.180	1903
487 Venetia	19	11.4	1 33.7	— 8 34	0.8	— 6	0.169	1906
48 Doris	22	10.7	1 45.6	+ 6 53	0.8	— 6	0.300	1906
409 Aspasia	23	11.0	1 49.2	+21 3	0.9	— 8	0.243	1906
471 [1901 GN] . . .	23	8.5	1 51.6	—14 3	1.0	0	0.107	1905
388 Charybdis . . .	24	11.6	1 51.7	+17 40	0.9	— 3	0.291	1905
348 May	26	12.8	2 1.4	— 1 32	0.9	— 3	0.280	1905
209 Dido	27	11.8	2 3.1	+18 26	0.8	— 3	0.344	1901
107 Camilla	27	11.1	2 3.8	+ 4 4	0.7	— 6	0.388	1906
* 53 Kalypso	27	10.8	2 6.2	+ 3 52	0.9	— 6	0.117	1906
504 Cora	28	11.4	2 6.6	—10 54	0.9	— 1	0.106	1906
528 Rezia	28	12.3	2 7.8	+ 6 33	0.8	— 1	0.370	1904
526 Jena	28	13.1	2 9.7	+ 9 52	0.8	— 4	0.332	1906
518 [1903 MO] . . .	28	12.7	2 10.3	+10 54	0.9	— 8	0.098	1903
276 Adelheid	28	11.8	2 10.5	+11 24	0.7	—10	0.323	1905
87 Sylvia	28	11.6	2 11.1	+ 1 51	0.8	— 2	0.358	1905

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 517

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit				Log. Δ	Letzte Beobachtung
			AR.	Dekl.	Δ α	Δ δ		
67 Asia	(Okt. 29	11.0	2 ^h 13.4 ^m	+11° 6'	0.9	— 8'	0.125	1906
142 Polana	29	12.9	2 14.7	+17 8	1.0	— 4	0.243	1903
187 Lamberta	30	12.5	2 17.9	+18 4	0.9	— 2	0.377	1906
63 Ausonia	31	10.3	2 21.4	+22 50	1.1	— 3	0.197	1903
562 Salome	Nov. 2	12.7	2 28.9	+ 4 34	0.9	— 1	0.280	1905
413 Edburga	2	10.3	2 29.3	—24 42	1.0	+10	9.967	1896
223 Rosa	3	12.9	2 31.9	+14 30	0.8	— 3	0.282	1904
567 Eleutheria	3	13.6	2 33.5	+10 36	0.8	— 2	0.380	1905
286 Iclea	4	13.2	2 34.6	— 9 47	0.8	— 5	0.348	1905
114 Kassandra	4	11.3	2 37.6	+ 8 48	0.7	— 5	0.252	1903
414 [1896 CN]	4	12.8	2 37.9	+ 1 11	0.7	— 3	0.344	1896
51 Nemausa	5	10.1	2 39.8	+ 3 24	0.9	— 8	0.174	1906
325 Heidelberga	5	11.5	2 41.5	+27 54	0.9	— 2	0.240	1906
563 Suleika	7	9.6	2 46.7	+ 2 2	1.0	+ 1	0.043	1905
43 Ariadne	8	10.5	2 50.5	+20 18	1.1	— 6	0.144	1906
566 Stereoskopia	8	10.8	2 52.5	+11 48	0.8	— 2	0.297	1905
61 Danaë	10	10.6	2 57.8	+45 32	1.1	— 3	0.265	1902
559 Nanon	13	12.7	3 9.7	+ 4 27	0.9	— 2	0.282	1905
306 Unitas	13	10.8	3 10.1	+ 4 55	1.0	— 4	0.145	1906
222 Lucia	13	13.6	3 11.8	+16 16	0.8	— 3	0.404	1905
369 Aëria	13	12.3	3 13.7	+ 2 2	0.9	0	0.175	1906
416 Vaticana	14	12.4	3 18.0	+15 47	1.0	— 1	0.368	1905
14 Irene	16	10.1	3 26.4	+10 28	1.0	— 1	0.258	1905
100 Hekate	17	12.0	3 27.8	+ 9 12	0.8	— 2	0.338	1901
205 Martha	17	12.5	3 30.2	+12 40	0.8	— 7	0.232	1902
486 Cremona	19	14.4	3 34.3	+ 7 43	1.0	— 1	0.244	1902
139 Juewa	19	11.0	3 36.9	+33 42	1.1	0	0.270	1904
267 Tirza	19	14.4	3 37.5	+16 34	0.9	— 2	0.305	1891
320 Katharina	20	13.7	3 41.5	+15 34	0.8	— 6	0.253	1891
337 Devosa	20	10.6	3 41.9	+33 19	1.2	— 1	0.048	1905
174 Phaedra	23	12.4	3 51.9	+37 51	1.0	— 3	0.363	1906
5 Astraea	24	9.5	3 55.1	+11 7	1.0	— 2	0.142	1905
192 Nausikaa	24	8.1	3 59.9	+34 20	1.1	— 4	9.996	1905
124 Alkeste	25	10.7	4 0.3	+16 56	1.0	— 3	0.267	1905
218 Bianca	26	12.1	4 3.9	— 0 46	0.9	— 4	0.306	1904
119 Althaea	26	11.2	4 5.2	+14 40	1.0	— 5	0.162	1906
27 Euterpe	27	8.6	4 12.8	+19 33	1.0	— 1	9.993	1905
366 Vincentina	28	12.5	4 14.1	+36 21	1.0	— 1	0.358	1906
94 Aurora	30	10.9	4 24.3	+31 45	1.0	—10	0.288	1904
296 Phaëtusa	30	12.6	4 24.4	+18 49	1.1	— 2	0.004	1902

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Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
*153 Hilda	Dez. 1	13.2	4 ^h 25.2 ^m	+18° 15'	0.7	-3	0.538	1906
200 Dynamene . . .	1	10.5	4 27.1	+33 15	1.1	-3	0.151	1904
501 Urhixidur . . .	1	13.0	4 29.3	+51 15	1.3	-1	0.346	1903
343 Ostara	2	12.0	4 30.7	+25 30	0.8	+1	9.954	1903
163 Erigone	3	10.4	4 36.3	+12 19	0.9	-3	9.985	1906
423 Diotima	3	11.4	4 38.2	+22 19	0.9	+1	0.340	1905
308 Polyxo	5	11.2	4 45.0	+16 2	1.0	-2	0.266	1906
*108 Hecuba	6	11.6	4 50.3	+28 50	0.9	-1	0.343	1906
188 Menippe	6	13.5	4 50.9	+18 52	1.0	-4	0.301	1897
349 Dembowska . . .	8	9.5	4 56.6	+31 27	1.0	+1	0.258	1904
* 26 Proserpina . . .	9	11.0	5 0.5	+25 33	1.0	0	0.276	1905
156 Xanthippe	9	12.1	5 2.0	+19 26	1.0	-4	0.333	1906
478 Tergeste	11	10.5	5 10.4	+14 45	0.9	-5	0.261	1905
279 Thule	12	14.1	5 14.3	+23 14	0.7	0	0.543	1905
* 37 Fides	13	9.3	5 19.8	+28 32	1.1	0	0.081	1905
202 Chryseis	14	10.4	5 22.1	+11 53	0.9	+1	0.276	1904
293 Brasilia	14	12.5	5 22.7	+31 44	1.4	-3	0.230	1890
274 Philagoria	14	13.9	5 22.8	+22 3	0.9	0	0.352	1905
497 [1902 KJ]	14	12.6	5 23.5	+31 10	1.1	-1	0.157	1902
378 Holmia	15	12.1	5 28.8	+17 40	1.0	-3	0.198	1906
529 Preciosa	15	12.6	5 29.9	+28 26	1.0	+3	0.255	1904
480 Hansa	16	11.3	5 34.2	+ 7 32	1.0	-8	0.196	1906
310 Margarita	18	13.6	5 42.7	+20 38	1.0	-1	0.260	1891
207 Hedda	19	12.0	5 46.8	+29 2	1.2	0	0.129	1903
58 Concordia	23	11.6	6 4.4	+16 0	1.0	+1	0.238	1906
*198 Ampella	27	11.0	6 21.4	+21 36	1.2	-3	0.158	1905
*270 Anahita	28	11.4	6 24.5	+21 51	1.2	0	0.133	1905
254 Augusta	28	14.1	6 24.8	+30 20	1.3	+2	0.167	1902
507 Laodica	28	12.2	6 25.1	+28 7	1.0	-2	0.305	1906
175 Andromache . . .	29	12.8	6 28.7	+27 27	0.9	+1	0.407	1906
456 Abnoba	29	13.5	6 30.8	+ 7 26	0.9	-2	0.327	1906
72 Feronia	31	11.8	6 35.5	+14 47	1.1	0	0.181	1906
536 [1904 OF]	31	11.8	6 37.0	+39 39	1.0	+3	0.419	1906
386 Siegena	32	10.2	6 43.0	- 5 37	0.9	+5	0.256	1906
253 Mathilde	33	14.0	6 48.2	+13 11	1.0	+2	0.293	1906
564 Dudu	33	15.0	6 48.2	+35 38	1.1	+4	0.404	1905
206 Hersilia	34	11.8	6 51.8	+18 47	1.0	+2	0.218	1906
* 47 Aglaja	34	11.7	6 53.0	+30 5	1.0	+1	0.343	1906
161 Athor	34	11.7	6 55.0	+37 7	1.2	+3	0.228	1903
397 Vienna	35	12.5	6 57.7	+ 5 45	1.1	-1	0.210	1906

OPPOSITIONEN DER KL. PLANETEN FÜR 1907. 519

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Dekl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
133 Cyrene	Dez. 37	11.8	7 ^h 6. ^m 4	+28° 43'	1.8 ^m	+3'	0.378	1903
565 Marbachia . .	37	12.4	7 7.3	+ 5 27	1.0	-1'	0.099	1905
408 Fama	39	13.0	7 14.6	+25 23	1.0	-1'	0.295	1906
*288 Glauke	40	12.4	7 16.7	+20 43	1.0	+3'	0.228	1905
533 [1904 NZ] . .	40	13.7	7 17.5	+13 18	0.8	+2'	0.328	1904
360 Carlova	41	11.1	7 21.6	+14 28	0.9	+6'	0.211	1906
532 Herculina . . .	41	9.3	7 22.6	+22 30	1.0	+9'	0.195	1905
530 Turandot . . .	41	13.2	7 23.9	+18 0	0.8	+3'	0.436	1904
* 24 Themis	41	10.1	7 25.8	+23 12	0.9	+2'	0.247	1905
403 Cyane	44	11.5	7 36.2	+10 27	1.0	0	0.195	1906
361 Bononia	48	12.3	7 51.5	+39 22	0.9	+1'	0.365	1906

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch (S. 520 - 552) ausführliche Ephemeriden.

Nicht berücksichtigt sind die Oppositionen der Planeten 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 398, 400, 410, 411, 452, 463, 469, 473, 474, 489, 493, 515, 517 und von 570 an.

(84) KLIO 1907.

τ_2^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Jan. 10	9 ^h 41 ^m 23.08		+18° 0' 48.8		0.284704	16 ^m 0'
11	9 40 36.18	-46.90	18 2 53.9	+2 5.1	0.283304	15 57
12	9 39 47.83	48.35	18 5 2.7	2 8.8	0.281955	15 54
13	9 38 58.07	49.76	18 7 14.8	2 12.1	0.280659	15 51
14	9 38 6.95	51.12	18 9 30.0	2 15.2	0.279419	15 49
15	9 37 14.50	-52.45	+18 11 48.1	+2 18.1	0.278235	15 46
16	9 36 20.78	53.72	18 14 8.8	2 20.7	0.277107	15 44
17	9 35 25.84	54.94	18 16 31.8	2 23.0	0.276038	15 41
18	9 34 29.72	56.12	18 18 56.8	2 25.0	0.275029	15 39
19	9 33 32.49	57.23	18 21 23.5	2 26.7	0.274081	15 37
20	9 32 34.19	-58.30	+18 23 51.6	+2 28.1	0.273197	15 35
21	9 31 34.88	59.31	18 26 20.7	2 29.1	0.272377	15 33
22	9 30 34.61	60.27	18 28 50.6	2 29.9	0.271621	15 32
23	9 29 33.43	61.18	18 31 21.0	2 30.4	0.270931	15 30
24	9 28 31.42	62.01	18 33 51.5	2 30.5	0.270307	15 29
25	9 27 28.62	-62.80	+18 36 21.9	+2 30.4	0.269751	15 28
26	9 26 25.11	63.51	18 38 51.9	2 30.0	0.269263	15 27
27	9 25 20.93	64.18	18 41 21.2	2 29.3	0.268845	15 26
28	9 24 16.16	64.77	18 43 49.5	2 28.3	0.268495	15 25
29	9 23 10.85	65.31	18 46 16.5	2 27.0	0.268215	15 24
30	9 22 5.08	-65.77	+18 48 42.0	+2 25.5	0.268007	15 24
31	9 20 58.91	66.17	18 51 5.8	2 23.8	0.267869	15 24
Febr. 1	9 19 52.42	66.49	18 53 27.4	2 21.6	0.267802	15 24
2	9 18 45.69	66.73	18 55 46.6	2 19.2	0.267807	15 24
3	9 17 38.78	66.91	18 58 3.3	2 16.7	0.267884	15 24
4	9 16 31.75	-67.03	+19 0 17.1	+2 13.8	0.268032	15 24
♂ 5	9 15 24.67	67.08	19 2 27.9	2 10.8	0.268252	15 24
6	9 14 17.61	67.06	19 4 35.3	2 7.4	0.268544	15 25
7	9 13 10.63	66.98	19 6 39.2	2 3.9	0.268908	15 26
8	9 12 3.83	66.80	19 8 39.3	2 0.1	0.269343	15 27
9	9 10 57.26	-66.57	+19 10 35.4	+1 56.1	0.269849	15 28
10	9 9 51.00	66.26	19 12 27.3	1 51.9	0.270427	15 29
11	9 8 45.13	65.87	19 14 14.8	1 47.5	0.271075	15 31
12	9 7 39.72	65.41	19 15 57.8	1 43.0	0.271792	15 32
13	9 6 34.84	64.88	19 17 36.0	1 38.2	0.272577	15 34
14	9 5 30.56	-64.28	+19 19 9.3	+1 33.3	0.273430	15 36
15	9 4 26.96	63.60	19 20 37.6	1 28.3	0.274351	15 38

Opp. in AR. Febr. 5

Größe = 12.4

(95) ARETHUSA 1907.

12 ^b Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Febr. 27	II ^h 32 ^m 54.53	-41.40	-15° 23' 36.6	+3' 11.6	0.395816	20 ^m 40 ^s
28	II 32 13.13	41.88	15 20 25.0	3 22.3	0.395043	20 38
März 1	II 31 31.25	42.32	15 17 2.7	3 32.9	0.394315	20 36
2	II 30 48.93	42.72	15 13 29.8	3 43.3	0.393633	20 34
3	II 30 6.21	-43.08	15 9 46.5	+3 53.6	0.392998	20 32
4	II 29 23.13	43.39	-15 5 52.9	4 3.6	0.392410	20 31
5	II 28 39.74	43.68	15 1 49.3	4 13.6	0.391869	20 29
6	II 27 56.06	43.93	14 57 35.7	4 23.4	0.391376	20 28
7	II 27 12.13	44.12	14 53 12.3	4 33.0	0.390933	20 26
8	II 26 28.01	-44.26	14 48 39.3	+4 42.4	0.390539	20 25
9	II 25 43.75	44.37	-14 43 56.9	4 51.5	0.390195	20 24
10	II 24 59.38	44.44	14 39 5.4	5 0.5	0.389901	20 24
♂ 11	II 24 14.94	44.45	14 34 4.9	5 9.1	0.389659	20 23
12	II 23 30.49	44.42	14 28 55.8	5 17.5	0.389468	20 22
13	II 22 46.07	-44.34	14 23 38.3	+5 25.7	0.389328	20 22
14	II 22 1.73	44.22	-14 18 12.6	5 33.5	0.389240	20 22
15	II 21 17.51	44.05	14 12 39.1	5 40.9	0.389204	20 21
16	II 20 33.46	43.84	14 6 58.2	5 48.2	0.389220	20 22
17	II 19 49.62	43.58	14 1 10.0	5 55.2	0.389287	20 22
18	II 19 6.04	-43.28	13 55 14.8	+6 1.6	0.389405	20 22
19	II 18 22.76	42.94	-13 49 13.2	6 7.8	0.389576	20 22
20	II 17 39.82	42.57	13 43 5.4	6 13.6	0.389798	20 23
21	II 16 57.25	42.14	13 36 51.8	6 19.1	0.390072	20 24
22	II 16 15.11	41.68	13 30 32.7	6 24.3	0.390397	20 25
23	II 15 33.43	-41.19	13 24 8.4	+6 29.1	0.390772	20 26
24	II 14 52.24	40.66	-13 17 39.3	6 33.5	0.391197	20 27
25	II 14 11.58	40.08	13 11 5.8	6 37.4	0.391672	20 28
26	II 13 31.50	39.47	13 4 28.4	6 41.2	0.392196	20 30
27	II 12 52.03	38.84	12 57 47.2	6 44.6	0.392770	20 32
28	II 12 13.19	-38.17	12 51 2.6	+6 47.7	0.393392	20 33
29	II 11 35.02	37.47	-12 44 14.9	6 50.4	0.394063	20 35
30	II 10 57.55	36.74	12 37 24.5	6 52.7	0.394781	20 37
31	II 10 20.81	35.98	12 30 31.8	6 54.6	0.395545	20 39
April 1	II 9 44.83	35.18	12 23 37.2	6 56.3	0.396355	20 42
2	II 9 9.65	-34.36	12 16 40.9	+6 57.5	0.397212	20 44
3	II 8 35.29	33.52	-12 9 43.4	6 58.5	0.398114	20 47
4	II 8 1.77		12 2 44.9		0.399059	20 49

Opp. in AR. März 11 Gröfse = 11.9

(79) EURYNOME 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Febr. 27	II ^h 42 ^m 38.72	-49.14	-2° 47' 38.3	+6 6.6	0.227436	14 ^m 2'
28	II 41 49.58	49.85	2 41 31.7	6 14.3	0.226726	14 0
März 1	II 40 59.73	50.54	2 35 17.4	6 21.8	0.226084	13 59
2	II 40 9.19	51.16	2 28 55.6	6 28.8	0.225512	13 58
3	II 39 18.03	-51.72	2 22 26.8	+6 35.5	0.225010	13 57
4	II 38 26.31	52.21	-2 15 51.3	6 41.7	0.224579	13 56
5	II 37 34.10	52.67	2 9 9.6	6 47.5	0.224221	13 55
6	II 36 41.43	53.05	2 2 22.1	6 53.0	0.223935	13 55
7	II 35 48.38	53.36	1 55 29.1	6 58.0	0.223722	13 54
8	II 34 55.02	-53.61	1 48 31.1	+7 2.6	0.223583	13 54
9	II 34 1.41	53.81	-1 41 28.5	7 6.7	0.223519	13 54
10	II 33 7.60	53.93	1 34 21.8	7 10.3	0.223530	13 54
11	II 32 13.67	53.98	1 27 11.5	7 13.5	0.223616	13 54
12	II 31 19.69	53.95	1 19 58.0	7 16.0	0.223778	13 55
♁ 13	II 30 25.74	-53.86	1 12 42.0	+7 18.1	0.224015	13 55
14	II 29 31.88	53.72	-1 5 23.9	7 19.9	0.224328	13 56
15	II 28 38.16	53.51	0 58 4.0	7 21.1	0.224717	13 56
16	II 27 44.65	53.23	0 50 42.9	7 21.8	0.225180	13 57
17	II 26 51.42	52.88	0 43 21.1	7 22.1	0.225718	13 58
18	II 25 58.54	-52.47	0 35 59.0	+7 21.9	0.226330	13 59
19	II 25 6.07	52.01	-0 28 37.1	7 21.2	0.227015	14 1
20	II 24 14.06	51.48	0 21 15.9	7 19.7	0.227773	14 2
21	II 23 22.58	50.87	0 13 56.2	7 17.7	0.228603	14 4
22	II 22 31.71	50.23	-0 6 38.5	7 15.4	0.229504	14 6
23	II 21 41.48	-49.54	+0 0 36.9	+7 12.8	0.230476	14 8
24	II 20 51.94	48.79	+0 7 49.7	7 9.8	0.231517	14 10
25	II 20 3.15	47.98	0 14 59.5	7 6.5	0.232625	14 12
26	II 19 15.17	47.13	0 22 6.0	7 2.7	0.233800	14 14
27	II 18 28.04	46.24	0 29 8.7	6 58.6	0.235041	14 16
28	II 17 41.80	-45.31	0 36 7.3	+6 53.9	0.236346	14 19
29	II 16 56.49	44.32	+0 43 1.2	6 49.0	0.237714	14 22
30	II 16 12.17	43.30	0 49 50.2	6 43.6	0.239144	14 25
31	II 15 28.87	42.25	0 56 33.8	6 37.9	0.240634	14 28
April 1	II 14 46.62	41.16	1 3 11.7	6 32.0	0.242184	14 31
2	II 14 5.46	-40.03	1 9 43.7	+6 25.7	0.243792	14 34
3	II 13 25.43	38.87	+1 16 9.4	6 19.1	0.245456	14 37
4	II 12 46.56		1 22 28.5		0.247176	14 41

Opp. in AR. März 13 GröÙe = 11.0

(82) ALKMENE 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
März 1	12 ^h 8 ^m 22.80	-42.00	+2° 9' 34.3	+3 36.0	0.110076	10 ^m 42'
2	12 7 40.80	43.13	2 13 10.3	3 40.9	0.109105	10 41
3	12 6 57.67	44.23	2 16 51.2	3 45.3	0.108211	10 40
4	12 6 13.44	45.26	2 20 36.5	3 49.5	0.107397	10 38
5	12 5 28.18	-46.23	2 24 26.0	+3 53.3	0.106664	10 37
6	12 4 41.95	47.14	+2 28 19.3	3 56.5	0.106013	10 36
7	12 3 54.81	47.97	2 32 15.8	3 59.4	0.105445	10 35
8	12 3 6.84	48.74	2 36 15.2	4 1.8	0.104962	10 35
9	12 2 18.10	49.42	2 40 17.0	4 3.8	0.104565	10 34
10	12 1 28.68	-50.03	2 44 20.8	+4 5.3	0.104254	10 34
11	12 0 38.65	50.55	+2 48 26.1	4 6.2	0.104031	10 33
12	11 59 48.10	51.00	2 52 32.3	4 6.8	0.103896	10 33
13	11 58 57.10	51.37	2 56 39.1	4 6.7	0.103850	10 33
14	11 58 5.73	51.65	3 0 45.8	4 6.3	0.103892	10 33
15	11 57 14.08	-51.84	3 4 52.1	+4 5.2	0.104024	10 33
16	11 56 22.24	51.96	+3 8 57.3	4 3.9	0.104245	10 34
17	11 55 30.28	51.99	3 13 1.2	4 1.8	0.104555	10 34
18	11 54 38.29	51.94	3 17 3.0	3 59.4	0.104955	10 35
♂ 19	11 53 46.35	51.81	3 21 2.4	3 56.6	0.105443	10 35
20	11 52 54.54	-51.61	3 24 59.0	+3 53.3	0.106019	10 36
21	11 52 2.93	51.31	+3 28 52.3	3 49.5	0.106683	10 37
22	11 51 11.62	50.96	3 32 41.8	3 45.4	0.107434	10 38
23	11 50 20.66	50.51	3 36 27.2	3 40.8	0.108271	10 40
24	11 49 30.15	50.01	3 40 8.0	3 35.9	0.109193	10 41
25	11 48 40.14	-49.43	3 43 43.9	+3 30.5	0.110200	10 42
26	11 47 50.71	48.77	+3 47 14.4	3 24.8	0.111289	10 44
27	11 47 1.94	48.07	3 50 39.2	3 18.8	0.112461	10 46
28	11 46 13.87	47.29	3 53 58.0	3 12.4	0.113713	10 48
29	11 45 26.58	46.45	3 57 10.4	3 5.8	0.115045	10 50
30	11 44 40.13	-45.55	4 0 16.2	+2 58.8	0.116455	10 52
31	11 43 54.58	44.60	+4 3 15.0	2 51.6	0.117941	10 54
April 1	11 43 9.98	43.59	4 6 6.6	2 44.1	0.119502	10 56
2	11 42 26.39	42.53	4 8 50.7	2 36.3	0.121137	10 59
3	11 41 43.86	41.41	4 11 27.0	2 28.3	0.122844	II 1
4	11 41 2.45	-40.25	4 13 55.3	+2 20.2	0.124622	II 4
5	11 40 22.20	39.03	+4 16 15.5	2 11.7	0.126468	II 7
6	11 39 43.17		4 18 27.2		0.128383	II 10

Opp. in AR. März 19 Größe = 10.1

(68) I. ETO 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Z.
März 11	12 ^h 50 ^m 45.00	-42.06	+2° 27' 24.9	+4' 5.8	0.365378	19 16'
12	12 50 2.94	42.89	2 31 30.7	4 7.5	0.364282	19 13
13	12 49 20.05	43.67	2 35 38.2	4 9.0	0.363237	19 10
14	12 48 36.38	44.42	2 39 47.2	4 10.0	0.362243	19 8
15	12 47 51.96	-45.13	2 43 57.2	+4 10.8	0.361300	19 6
16	12 47 6.83	45.80	+2 48 8.0	4 11.4	0.360409	19 4
17	12 46 21.03	46.43	2 52 19.4	4 11.6	0.359571	19 2
18	12 45 34.60	47.02	2 56 31.0	4 11.6	0.358786	18 59
19	12 44 47.58	47.56	3 0 42.6	4 11.2	0.358055	18 57
20	12 44 0.02	-48.05	3 4 53.8	+4 10.4	0.357379	18 55
21	12 43 11.97	48.51	+3 9 4.2	4 9.4	0.356758	18 54
22	12 42 23.46	48.92	3 13 13.6	4 8.2	0.356193	18 52
23	12 41 34.54	49.28	3 17 21.8	4 6.7	0.355685	18 51
24	12 40 45.26	49.60	3 21 28.5	4 4.9	0.355234	18 50
25	12 39 55.66	-49.86	3 25 33.4	+4 2.8	0.354840	18 49
26	12 39 5.80	50.10	+3 29 36.2	4 0.4	0.354502	18 48
27	12 38 15.70	50.28	3 33 36.6	3 57.8	0.354221	18 47
28	12 37 25.42	50.41	3 37 34.4	3 54.8	0.353997	18 46
29	12 36 35.01	50.50	3 41 29.2	3 51.6	0.353829	18 46
30	12 35 44.51	-50.55	3 45 20.8	+3 48.2	0.353719	18 46
♂ 31	12 34 53.96	50.55	+3 49 9.0	3 44.5	0.353666	18 45
April 1	12 34 3.41	50.51	3 52 53.5	3 40.6	0.353670	18 46
2	12 33 12.90	50.43	3 56 34.1	3 36.3	0.353732	18 46
3	12 32 22.47	50.29	4 0 10.4	3 31.9	0.353851	18 46
4	12 31 32.18	-50.10	4 3 42.3	+3 27.2	0.354027	18 46
5	12 30 42.08	49.88	+4 7 9.5	3 22.2	0.354260	18 47
6	12 29 52.20	49.59	4 10 31.7	3 17.0	0.354549	18 48
7	12 29 2.61	49.27	4 13 48.7	3 11.7	0.354893	18 49
8	12 28 13.34	48.90	4 17 0.4	3 6.0	0.355293	18 50
9	12 27 24.44	-48.49	4 20 6.4	+3 0.2	0.355747	18 51
10	12 26 35.95	48.02	+4 23 6.6	2 54.1	0.356256	18 52
11	12 25 47.93	47.50	4 26 0.7	2 47.8	0.356819	18 54
12	12 25 0.43	46.96	4 28 48.5	2 41.3	0.357436	18 55
13	12 24 13.47	46.38	4 31 29.8	2 34.7	0.358104	18 57
14	12 23 27.09	-45.74	4 34 4.5	+2 28.0	0.358824	18 59
15	12 22 41.35	45.04	+4 36 32.5	2 21.0	0.359595	19 1
16	12 21 56.31		4 38 53.5		0.360416	19 3

Opp. in AR. März 31

Größe = 11.3

(57) MNEMOSYNE 1907.

12 ^h Mittl. Zeit	AR.	Dist.	Dekl.	Dist.	Log. Δ	Aberr.-Zt.
März 19	13 19 13.47	-33.70	-10 13 39.9	+6 29.2	0.400078	20 ^m 52
20	13 18 39.77	34.37	10 7 10.7	6 35.1	0.399121	20 50
21	13 18 5.40	35.03	10 0 35.6	6 40.7	0.398210	20 47
22	13 17 30.37	35.65	9 53 54.9	6 46.1	0.397345	20 45
23	13 16 54.72	-36.24	9 47 8.8	+6 51.3	0.396526	20 42
24	13 16 18.48	36.78	- 9 40 17.5	6 56.2	0.395755	20 40
25	13 15 41.70	37.30	9 33 21.3	7 1.0	0.395033	20 38
26	13 15 4.40	37.78	9 26 20.3	7 5.4	0.394360	20 36
27	13 14 26.62	38.21	9 19 14.9	7 9.6	0.393737	20 34
28	13 13 48.41	-38.61	9 12 5.3	+7 13.5	0.393164	20 33
29	13 13 9.80	38.98	- 9 4 51.8	7 17.3	0.392641	20 31
30	13 12 30.82	39.30	8 57 34.5	7 20.6	0.392169	20 30
31	13 11 51.52	39.60	8 50 13.9	7 23.7	0.391749	20 29
April 1	13 11 11.92	39.85	8 42 50.2	7 26.5	0.391380	20 28
2	13 10 32.07	-40.08	8 35 23.7	+7 29.0	0.391064	20 27
3	13 9 51.99	40.26	- 8 27 54.7	7 31.2	0.390801	20 26
4	13 9 11.73	40.40	8 20 23.5	7 33.1	0.390592	20 25
5	13 8 31.33	40.51	8 12 50.4	7 34.6	0.390436	20 25
6	13 7 50.82	40.58	8 5 15.8	7 35.8	0.390332	20 25
7	13 7 10.24	-40.60	7 57 40.0	+7 36.6	0.390282	20 25
♂ 8	13 6 29.64	40.58	- 7 50 3.4	7 37.2	0.390286	20 24
9	13 5 49.06	40.51	7 42 26.2	7 37.5	0.390343	20 25
10	13 5 8.55	40.39	7 34 48.7	7 37.4	0.390454	20 25
11	13 4 28.16	40.22	7 27 11.3	7 36.8	0.390620	20 26
12	13 3 47.94	-40.03	7 19 34.5	+7 36.0	0.390839	20 26
13	13 3 7.91	39.81	- 7 11 58.5	7 34.9	0.391111	20 27
14	13 2 28.10	39.56	7 4 23.6	7 33.4	0.391436	20 28
15	13 1 48.54	39.25	6 56 50.2	7 31.7	0.391814	20 29
16	13 1 9.29	38.90	6 49 18.5	7 29.5	0.392244	20 30
17	13 0 30.39	-38.52	6 41 49.0	+7 27.0	0.392726	20.31
18	12 59 51.87	38.10	- 6 34 22.0	7 24.2	0.393260	20 33
19	12 59 13.77	37.63	6 26 57.8	7 21.0	0.393845	20 35
20	12 58 36.14	37.14	6 19 36.8	7 17.4	0.394480	20 36
21	12 57 59.00	36.62	6 12 19.4	7 13.5	0.395164	20 38
22	12 57 22.38	-36.06	6 5 5.9	+7 9.2	0.395896	20 40
23	12 56 46.32	35.47	- 5 57 56.7	7 4.6	0.396676	20 43
24	12 56 10.85		5 50 52.1		0.397504	20 45

Opp. in AR. April 8 Größe = 11.1

(35) LEUKOTHEA 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
März 27	13 ^h 14 ^m 28.73	-47.88	-13° 5' 40.3	-0' 28.3	0.135254	II 21
28	13 13 40.85	48.79	13 6 8.6	0 20.6	0.134062	II 19
29	13 12 52.06	49.62	13 6 29.2	0 13.2	0.132946	II 17
30	13 12 2.44	50.36	13 6 42.4	-0 6.0	0.131907	II 15
31	13 11 12.08	-51.05	13 6 48.4	+0 1.1	0.130945	II 14
April 1	13 10 21.03	51.68	-13 6 47.3	0 8.1	0.130061	II 13
2	13 9 29.35	52.24	13 6 39.2	0 14.9	0.129258	II 11
3	13 8 37.11	52.72	13 6 24.3	0 21.5	0.128536	II 10
4	13 7 44.39	53.12	13 6 2.8	0 27.8	0.127896	II 9
5	13 6 51.27	-53.42	13 5 35.0	+0 33.8	0.127338	II 8
6	13 5 57.85	53.62	-13 5 1.2	0 39.6	0.126863	II 8
7	13 5 4.23	53.76	13 4 21.6	0 45.0	0.126470	II 7
♂ 8	13 4 10.47	53.80	13 3 36.6	0 50.2	0.126160	II 7
9	13 3 16.67	53.78	13 2 46.4	0 55.2	0.125934	II 6
10	13 2 22.89	-53.66	13 1 51.2	+0 59.8	0.125792	II 6
11	13 1 29.23	53.48	-13 0 51.4	1 4.0	0.125737	II 6
12	13 0 35.75	53.20	12 59 47.4	1 8.0	0.125767	II 6
13	12 59 42.55	52.84	12 58 39.4	1 11.6	0.125882	II 6
14	12 58 49.71	52.40	12 57 27.8	1 14.8	0.126080	II 6
15	12 57 57.31	-51.89	12 56 13.0	+1 17.6	0.126362	II 7
16	12 57 5.42	51.31	-12 54 55.4	1 20.1	0.126726	II 7
17	12 56 14.11	50.65	12 53 35.3	1 22.2	0.127172	II 8
18	12 55 23.46	49.91	12 52 13.1	1 24.0	0.127699	II 9
19	12 54 33.55	49.09	12 50 49.1	1 25.3	0.128306	II 10
20	12 53 44.46	-48.24	12 49 23.8	+1 26.2	0.128992	II 11
21	12 52 56.22	47.32	-12 47 57.6	1 26.8	0.129756	II 12
22	12 52 8.90	46.32	12 46 30.8	1 27.0	0.130597	II 13
23	12 51 22.58	45.28	12 45 3.8	1 26.9	0.131515	II 15
24	12 50 37.30	44.19	12 43 36.9	1 26.2	0.132507	II 16
25	12 49 53.11	-43.04	12 42 10.7	+1 25.2	0.133572	II 18
26	12 49 10.07	41.82	-12 40 45.5	1 23.9	0.134709	II 20
27	12 48 28.25	40.57	12 39 21.6	1 22.3	0.135915	II 22
28	12 47 47.68	39.29	12 37 59.3	1 20.4	0.137191	II 24
29	12 47 8.39	37.96	12 36 38.9	1 18.3	0.138533	II 26
30	12 46 30.43	-36.58	12 35 20.6	+1 16.0	0.139942	II 28
Mai 1	12 45 53.85	35.14	-12 34 4.6	1 13.6	0.141415	II 30
2	12 45 18.71		12 32 51.0		0.142950	II 33

Opp. in AR. April 8

Größe = 10.8

(184) DEJOPEJA 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
März 27	13 ^h 45 ^m 38.04	-37.18	-12° 16' 1.0	+3 0.5	0.313046	17 ^m 5'
28	13 45 0.86	38.03	12 13 0.5	3 5.9	0.311910	17 2
29	13 44 22.83	38.84	12 9 54.6	3 11.3	0.310826	17 0
30	13 43 43.99	39.62	12 6 43.3	3 16.5	0.309795	16 57
31	13 43 4.37	-40.34	12 3 26.8	+3 21.6	0.308818	16 55
April 1	13 42 24.03	41.02	-12 0 5.2	3 26.5	0.307895	16 53
2	13 41 43.01	41.66	11 56 38.7	3 31.2	0.307028	16 51
3	13 41 1.35	42.26	11 53 7.5	3 35.6	0.306218	16 49
4	13 40 19.09	42.80	11 49 31.9	3 39.7	0.305464	16 47
5	13 39 36.29	-43.31	11 45 52.2	+3 43.7	0.304768	16 46
6	13 38 52.98	43.76	-11 42 8.5	3 47.6	0.304131	16 44
7	13 38 9.22	44.17	11 38 20.9	3 51.1	0.303553	16 43
8	13 37 25.05	44.52	11 34 29.8	3 54.4	0.303035	16 42
9	13 36 40.53	44.81	11 30 35.4	3 57.3	0.302578	16 41
10	13 35 55.72	-45.06	11 26 38.1	+4 0.0	0.302182	16 40
11	13 35 10.66	45.26	-11 22 38.1	4 2.5	0.301847	16 39
12	13 34 25.40	45.41	11 18 35.6	4 4.4	0.301573	16 38
13	13 33 39.99	45.50	11 14 31.2	4 6.5	0.301361	16 38
14	13 32 54.49	45.52	11 10 24.7	4 7.9	0.301211	16 37
♂ 15	13 32 8.97	-45.50	11 6 16.8	+4 9.1	0.301123	16 37
16	13 31 23.47	45.44	-11 2 7.7	4 10.1	0.301097	16 37
17	13 30 38.03	45.32	10 57 57.6	4 10.7	0.301133	16 37
18	13 29 52.71	45.16	10 53 46.9	4 11.0	0.301232	16 37
19	13 29 7.55	44.94	10 49 35.9	4 10.9	0.301392	16 38
20	13 28 22.61	-44.67	10 45 25.0	+4 10.6	0.301614	16 38
21	13 27 37.94	44.36	-10 41 14.4	4 10.1	0.301896	16 39
22	13 26 53.58	44.00	10 37 4.3	4 9.3	0.302238	16 40
23	13 26 9.58	43.59	10 32 55.0	4 8.1	0.302641	16 41
24	13 25 25.99	43.13	10 28 46.9	4 6.7	0.303104	16 42
25	13 24 42.86	-42.63	10 24 40.2	+4 5.0	0.303626	16 43
26	13 24 0.23	42.08	-10 20 35.2	4 2.9	0.304206	16 44
27	13 23 18.15	41.49	10 16 32.3	4 0.7	0.304844	16 46
28	13 22 36.66	40.87	10 12 31.6	3 58.2	0.305539	16 47
29	13 21 55.79	40.22	10 8 33.4	3 55.3	0.306291	16 49
30	13 21 15.57	-39.52	10 4 38.1	+3 52.3	0.307099	16 51
Mai 1	13 20 36.05	38.78	-10 0 45.8	3 49.1	0.307962	16 53
2	13 19 57.27		9 56 56.7		0.308879	16 55

Opp. in AR. April 15 GröÙe = 12.1

(199) BYBLIS 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. A	Aberr.-Zt.
April 24	15 ^h 41 ^m 35.53	-37.81	-2° 40' 16.8	+0 41.6	0.250179	14 27
25	15 40 57.72	38.84	2 39 35.2	0 36.0	0.248810	14 24
26	15 40 18.88	39.84	2 38 59.2	0 30.1	0.247495	14 21
27	15 39 39.04	40.79	2 38 29.1	0 24.1	0.246235	14 19
28	15 38 58.25	-41.70	2 38 5.0	+0 17.8	0.245031	14 16
29	15 38 16.55	42.58	-2 37 47.2	0 11.4	0.243884	14 14
30	15 37 33.97	43.43	2 37 35.8	+0 4.7	0.242794	14 12
Mai 1	15 36 50.54	44.20	2 37 31.1	-0 2.1	0.241763	14 10
2	15 36 6.34	44.95	2 37 33.2	0 9.1	0.240792	14 8
3	15 35 21.39	-45.66	2 37 42.3	-0 16.4	0.239881	14 6
4	15 34 35.73	46.34	-2 37 58.7	0 23.9	0.239030	14 4
5	15 33 49.39	46.96	2 38 22.6	0 31.6	0.238240	14 3
6	15 33 2.43	47.49	2 38 54.2	0 39.4	0.237512	14 1
7	15 32 14.94	47.98	2 39 33.6	0 47.3	0.236847	14 0
8	15 31 26.96	-48.41	2 40 20.9	-0 55.4	0.236246	13 59
9	15 30 38.55	48.78	-2 41 16.3	1 3.7	0.235710	13 58
10	15 29 49.77	49.09	2 42 20.0	1 12.3	0.235240	13 57
11	15 29 0.68	49.34	2 43 32.3	1 20.9	0.234836	13 56
12	15 28 11.34	49.53	2 44 53.2	1 29.6	0.234498	13 55
13	15 27 21.81	-49.66	2 46 22.8	-1 38.3	0.234225	13 55
14	15 26 32.15	49.72	-2 48 1.1	1 47.3	0.234017	13 54
♂ 15	15 25 42.43	49.74	2 49 48.4	1 56.3	0.233875	13 54
16	15 24 52.69	49.68	2 51 44.7	2 5.4	0.233798	13 54
17	15 24 3.01	49.56	2 53 50.1	2 14.6	0.233787	13 54
18	15 23 13.45	-49.38	2 56 4.7	-2 23.8	0.233842	13 54
19	15 22 24.07	49.16	-2 58 28.5	2 33.2	0.233962	13 54
20	15 21 34.91	48.86	3 1 1.7	2 42.5	0.234147	13 55
21	15 20 46.05	48.52	3 3 44.2	2 51.9	0.234398	13 55
22	15 19 57.53	48.14	3 6 36.1	3 1.2	0.234713	13 56
23	15 19 9.39	-47.71	3 9 37.3	-3 10.5	0.235091	13 56
24	15 18 21.68	47.22	-3 12 47.8	3 19.8	0.235532	13 57
25	15 17 34.46	46.70	3 16 7.6	3 29.1	0.236034	13 58
26	15 16 47.76	46.14	3 19 36.7	3 38.4	0.236598	14 0
27	15 16 1.62	45.54	3 23 15.1	3 47.6	0.237221	14 1
28	15 15 16.08	-44.90	3 27 2.7	-3 56.6	0.237904	14 2
29	15 14 31.18	44.20	-3 30 59.3	4 5.4	0.238646	14 4
30	15 13 46.98		3 35 4.7		0.239446	14 5

Opp. in AR. Mai 15 GröÙe = 11.5

(154) BERTHA 1907.

ι^2 littl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
ai 6	15 ^h 56 ^m 45.84	-58.70	-31° 57' 55.6	-4 55.8	0.300000	16 ^m 35'
7	15 55 47.14	59.62	32 2 51.4	4 47.7	0.299213	16 33
8	15 54 47.52	60.46	32 7 39.1	4 39.5	0.298484	16 31
9	15 53 47.06	61.24	32 12 18.6	4 31.2	0.297814	16 30
10	15 52 45.82	-61.94	32 16 49.8	-4 22.9	0.297202	16 28
11	15 51 43.88	62.58	-32 21 12.7	4 14.5	0.296650	16 27
12	15 50 41.30	63.16	32 25 27.2	4 6.1	0.296157	16 26
13	15 49 38.14	63.66	32 29 33.3	3 57.7	0.295726	16 25
14	15 48 34.48	64.10	32 33 31.0	3 49.1	0.295356	16 24
15	15 47 30.38	-64.46	32 37 20.1	-3 40.5	0.295047	16 23
16	15 46 25.92	64.76	-32 41 0.6	3 31.9	0.294800	16 23
17	15 45 21.16	64.99	32 44 32.5	3 23.2	0.294615	16 22
18	15 44 16.17	65.14	32 47 55.7	3 14.3	0.294492	16 22
♃ 19	15 43 11.03	65.24	32 51 10.0	3 5.4	0.294430	16 22
20	15 42 5.79	-65.26	32 54 15.4	-2 56.6	0.294430	16 22
21	15 41 0.53	65.20	-32 57 12.0	2 48.0	0.294492	16 22
22	15 39 55.33	65.08	33 0 0.0	2 39.6	0.294616	16 22
23	15 38 50.25	64.90	33 2 39.6	2 31.2	0.294802	16 23
24	15 37 45.35	64.65	33 5 10.8	2 22.8	0.295048	16 23
25	15 36 40.70	-64.33	33 7 33.6	-2 14.6	0.295356	16 24
26	15 35 36.37	63.94	-33 9 48.2	2 6.5	0.295724	16 25
27	15 34 32.43	63.48	33 11 54.7	1 58.5	0.296152	16 26
28	15 33 28.95	62.95	33 13 53.2	1 50.7	0.296639	16 27
29	15 32 26.00	62.37	33 15 43.9	1 42.9	0.297186	16 28
30	15 31 23.63	-61.73	33 17 26.8	-1 35.4	0.297791	16 30
31	15 30 21.90	61.02	-33 19 2.2	1 28.1	0.298455	16 31
ni 1	15 29 20.88	60.24	33 20 30.3	1 20.8	0.299176	16 32
2	15 28 20.64	59.42	33 21 51.1	1 13.8	0.299954	16 34
3	15 27 21.22	58.54	33 23 4.9	1 7.1	0.300788	16 36
4	15 26 22.68	-57.60	33 24 12.0	-1 0.7	0.301677	16 38
5	15 25 25.08	56.61	-33 25 12.7	0 54.4	0.302621	16 40
6	15 24 28.47	55.57	33 26 7.1	0 48.3	0.303619	16 43
7	15 23 32.90	54.48	33 26 55.4	0 42.5	0.304671	16 45
8	15 22 38.42	53.34	33 27 37.9	0 36.9	0.305774	16 48
9	15 21 45.08	-52.15	33 28 14.8	-0 31.7	0.306928	16 51
10	15 20 52.93	50.92	-33 28 46.5	0 26.7	0.308132	16 53
11	15 20 2.01		33 29 13.2		0.309386	16 56

Opp. in AR. Mai 19 Größe = 10.8

(118) PEITHO 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Mai 18	16 ^h 49 ^m 16.97	—59.41	—26° 39' 36.3	—69.5	0.266289	15 ^m 20'
19	16 48 17.56	60.30	26 40 45.8	64.8	0.265403	15 19
20	16 47 17.26	61.13	26 41 50.6	60.1	0.264578	15 17
21	16 46 16.13	61.88	26 42 50.7	55.3	0.263816	15 15
22	16 45 14.25	—62.55	26 43 46.0	—50.6	0.263116	15 14
23	16 44 11.70	63.15	—26 44 36.6	45.9	0.262480	15 12
24	16 43 8.55	63.68	26 45 22.5	41.2	0.261909	15 11
25	16 42 4.87	64.14	26 46 3.7	36.4	0.261403	15 10
26	16 41 0.73	64.56	26 46 40.1	31.7	0.260963	15 9
27	16 39 56.17	—64.92	26 47 11.8	—27.0	0.260588	15 8
28	16 38 51.25	65.21	26 47 38.8	22.3	0.260279	15 8
29	16 37 46.04	65.43	26 48 1.1	17.7	0.260037	15 7
30	16 36 40.61	65.58	26 48 18.8	13.1	0.259861	15 7
31	16 35 35.03	65.66	26 48 31.9	8.5	0.259752	15 7
♁ Juni 1	16 34 29.37	—65.69	26 48 40.4	—4.0	0.259710	15 7
2	16 33 23.68	65.64	—26 48 44.4	+0.3	0.259736	15 7
3	16 32 18.04	65.51	26 48 44.1	4.7	0.259830	15 7
4	16 31 12.53	65.32	26 48 39.4	9.0	0.259991	15 7
5	16 30 7.21	65.06	26 48 30.4	13.1	0.260219	15 8
6	16 29 2.15	—64.73	26 48 17.3	+17.1	0.260514	15 8
7	16 27 57.42	64.32	—26 48 0.2	21.0	0.260876	15 9
8	16 26 53.10	63.85	26 47 39.2	24.8	0.261304	15 10
9	16 25 49.25	63.29	26 47 14.4	28.5	0.261798	15 11
10	16 24 45.96	62.66	26 46 45.9	31.9	0.262358	15 12
11	16 23 43.30	—61.99	26 46 14.0	+35.2	0.262984	15 13
12	16 22 41.31	61.25	—26 45 38.8	38.4	0.263674	15 15
13	16 21 40.06	60.42	26 45 0.4	41.4	0.264426	15 16
14	16 20 39.64	59.56	26 44 19.0	44.2	0.265240	15 18
15	16 19 40.08	58.64	26 43 34.8	46.8	0.266117	15 20
16	16 18 41.44	—57.66	26 42 48.0	+49.3	0.267055	15 22
17	16 17 43.78	56.62	—26 41 58.7	51.4	0.268053	15 24
18	16 16 47.16	55.53	26 41 7.3	53.4	0.269109	15 26
19	16 15 51.63	54.40	26 40 13.9	55.1	0.270222	15 29
20	16 14 57.23	53.23	26 39 18.8	56.6	0.271391	15 31
21	16 14 4.00	—52.01	26 38 22.2	+57.8	0.272616	15 34
22	16 13 11.99	50.75	—26 37 24.4	58.6	0.273895	15 37
23	16 12 21.24		26 36 25.8		0.275226	15 40

Opp. in AR. Juni I (Größe = 11.7)

(17) THETIS 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 7	18 ^h 36 ^m 56.73	-41.21	-16° 59' 34.4	-2 10.5	0.069047	9 ^m 44 ^s
8	18 36 15.52	42.68	17 1 44.9	2 16.3	0.067489	9 42
9	18 35 32.84	44.09	17 4 1.2	2 22.0	0.066005	9 40
10	18 34 48.75	45.44	17 6 23.2	2 27.7	0.064597	9 38
11	18 34 3.31	-46.72	17 8 50.9	-2 33.4	0.063268	9 37
12	18 33 16.59	47.93	-17 11 24.3	2 38.9	0.062018	9 35
13	18 32 28.66	49.08	17 14 3.2	2 44.4	0.060848	9 33
14	18 31 39.58	50.14	17 16 47.6	2 49.8	0.059760	9 32
15	18 30 49.44	51.12	17 19 37.4	2 54.9	0.058756	9 31
16	18 29 58.32	-52.03	17 22 32.3	-3 0.0	0.057836	9 30
17	18 29 6.29	52.85	-17 25 32.3	3 4.9	0.057002	9 28
18	18 28 13.44	53.59	17 28 37.2	3 9.7	0.056255	9 27
19	18 27 19.85	54.25	17 31 46.9	3 14.4	0.055596	9 27
20	18 26 25.60	54.83	17 35 1.3	3 18.7	0.055025	9 26
21	18 25 30.77	-55.32	17 38 20.0	-3 23.0	0.054543	9 25
22	18 24 35.45	55.72	-17 41 43.0	3 27.2	0.054151	9 25
23	18 23 39.73	56.04	17 45 10.2	3 31.1	0.053849	9 24
24	18 22 43.69	56.28	17 48 41.3	3 34.9	0.053638	9 24
25	18 21 47.41	56.44	17 52 16.2	3 38.6	0.053518	9 24
26	18 20 50.97	-56.51	17 55 54.8	-3 42.0	0.053488	9 24
♃ 27	18 19 54.46	56.50	-17 59 36.8	3 45.2	0.053548	9 24
28	18 18 57.96	56.41	18 3 22.0	3 48.2	0.053699	9 24
29	18 18 1.55	56.24	18 7 10.2	3 51.0	0.053942	9 24
30	18 17 5.31	55.97	18 11 1.2	3 53.8	0.054278	9 25
Juli 1	18 16 9.34	-55.60	18 14 55.0	-3 56.2	0.054705	9 25
2	18 15 13.74	55.16	-18 18 51.2	3 58.4	0.055223	9 26
3	18 14 18.58	54.65	18 22 49.6	4 0.5	0.055830	9 27
4	18 13 23.93	54.03	18 26 50.1	4 2.4	0.056528	9 28
5	18 12 29.90	53.30	18 30 52.5	4 4.2	0.057314	9 29
6	18 11 36.60	-52.50	18 34 56.7	-4 6.0	0.058188	9 30
7	18 10 44.10	51.62	-18 39 2.7	4 7.4	0.059148	9 31
8	18 9 52.48	50.66	18 43 10.1	4 8.8	0.060194	9 33
9	18 9 1.82	49.62	18 47 18.9	4 10.1	0.061326	9 34
10	18 8 12.20	48.52	18 51 29.0	4 11.2	0.062540	9 36
11	18 7 23.68	-47.34	18 55 40.2	-4 12.2	0.063837	9 37
12	18 6 36.34	46.10	-18 59 52.4	4 13.1	0.065215	9 39
13	18 5 50.24		19 4 5.5		0.066671	9 41

Opp. in AR. Juni 27 GröÙe = 9.2

(190) ISMENE 1907.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aber.-Zt.
Juni 15	18 ^h 45 ^m 20.75	-35.02	-15° 20' 55.2	-0 14.0	0.559365	30 ^m 7
16	18 44 45.73	35.39	15 21 9.2	0 16.1	0.558849	30 5
17	18 44 10.34	35.74	15 21 25.3	0 18.1	0.558366	30 3
18	18 43 34.60	36.08	15 21 43.4	0 20.1	0.557917	30 2
19	18 42 58.52	-36.38	15 22 3.5	-0 22.1	0.557502	30 0
20	18 42 22.14	36.66	-15 22 25.6	0 24.1	0.557121	29 58
21	18 41 45.48	36.91	15 22 49.7	0 26.1	0.556774	29 57
22	18 41 8.57	37.13	15 23 15.8	0 28.1	0.556462	29 55
23	18 40 31.44	37.33	15 23 43.9	0 30.0	0.556184	29 54
24	18 39 54.11	-37.51	15 24 13.9	-0 32.0	0.555941	29 53
25	18 39 16.60	37.66	-15 24 45.9	0 33.9	0.555733	29 52
26	18 38 38.94	37.78	15 25 19.8	0 35.8	0.555561	29 52
27	18 38 1.16	37.88	15 25 55.6	0 37.6	0.555423	29 51
28	18 37 23.28	37.95	15 26 33.2	0 39.5	0.555321	29 51
29	18 36 45.33	-38.00	15 27 12.7	-0 41.3	0.555254	29 50
♂ 30	18 36 7.33	38.02	-15 27 54.0	0 43.1	0.555223	29 50
Juli 1	18 35 29.31	38.01	15 28 37.1	0 44.8	0.555228	29 50
2	18 34 51.30	37.98	15 29 21.9	0 46.5	0.555268	29 50
3	18 34 13.32	37.91	15 30 8.4	0 48.2	0.555344	29 51
4	18 33 35.41	-37.82	15 30 56.6	-0 49.9	0.555456	29 51
5	18 32 57.59	37.70	-15 31 46.5	0 51.6	0.555604	29 52
6	18 32 19.89	37.55	15 32 38.1	0 53.2	0.555787	29 52
7	18 31 42.34	37.37	15 33 31.3	0 54.8	0.556005	29 53
8	18 31 4.97	37.17	15 34 26.1	0 56.4	0.556259	29 54
9	18 30 27.80	-36.94	15 35 22.5	-0 58.0	0.556548	29 56
10	18 29 50.86	36.67	-15 36 20.5	0 59.6	0.556872	29 57
11	18 29 14.19	36.39	15 37 20.1	1 1.0	0.557231	29 58
12	18 28 37.80	36.07	15 38 21.1	1 2.4	0.557625	30 0
13	18 28 1.73	35.73	15 39 23.5	1 3.8	0.558053	30 2
14	18 27 26.00	-35.36	15 40 27.3	-1 5.1	0.558514	30 4
15	18 26 50.64	34.96	-15 41 32.4	1 6.5	0.559008	30 6
16	18 26 15.68	34.55	15 42 38.9	1 7.8	0.559536	30 8
17	18 25 41.13	34.11	15 43 46.7	1 9.1	0.560097	30 10
18	18 25 7.02	33.64	15 44 55.8	1 10.4	0.560690	30 13
19	18 24 33.38	-33.15	15 46 6.2	-1 11.7	0.561315	30 15
20	18 24 0.23	32.65	-15 47 17.9	1 12.9	0.561971	30 18
21	18 23 27.58		15 48 30.8		0.562658	30 21

Opp. in AR. Juni 30 GröÙe =, 12.8

(170) MARIA 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Juni	19 19 38 ^m 27.53	-53.58	-28° 50' 4.9	+1 24.2	0.245736	14 ^m 38'
	20 19 37 33.95	54.84	28 48 40.7	1 27.4	0.244384	14 35
	21 19 36 39.11	56.05	28 47 13.3	1 30.9	0.243088	14 32
	22 19 35 43.06	57.21	28 45 42.4	1 34.6	0.241850	14 30
	23 19 34 45.85	-58.32	28 44 7.8	+1 38.5	0.240671	14 28
	24 19 33 47.53	59.38	-28 42 29.3	1 42.5	0.239551	14 25
	25 19 32 48.15	60.41	28 40 46.8	1 46.8	0.238493	14 23
	26 19 31 47.74	61.37	28 39 0.0	1 51.1	0.237497	14 21
	27 19 30 46.37	62.25	28 37 8.9	1 55.7	0.236564	14 19
	28 19 29 44.12	-63.08	28 35 13.2	+2 0.5	0.235696	14 18
	29 19 28 41.04	63.86	-28 33 12.7	2 5.3	0.234893	14 16
	30 19 27 37.18	64.56	28 31 7.4	2 10.3	0.234155	14 15
Juli	1 19 26 32.62	65.18	28 28 57.1	2 15.4	0.233484	14 13
	2 19 25 27.44	65.73	28 26 41.7	2 20.5	0.232880	14 12
	3 19 24 21.71	-66.22	28 24 21.2	+2 25.7	0.232344	14 11
	4 19 23 15.49	66.64	-28 21 55.5	2 31.0	0.231877	14 10
	5 19 22 8.85	66.97	28 19 24.5	2 36.3	0.231479	14 9
	6 19 21 1.88	67.23	28 16 48.2	2 41.6	0.231151	14 9
	7 19 19 54.65	67.41	28 14 6.6	2 46.9	0.230894	14 8
	8 19 18 47.24	-67.51	28 11 19.7	+2 52.3	0.230708	14 8
	9 19 17 39.73	67.54	-28 8 27.4	2 57.7	0.230594	14 8
	10 19 16 32.19	67.49	28 5 29.7	3 3.1	0.230550	14 8
	11 19 15 24.70	67.36	28 2 26.6	3 8.5	0.230578	14 8
	12 19 14 17.34	67.14	27 59 18.1	3 14.0	0.230677	14 8
	13 19 13 10.20	-66.86	27 56 4.1	+3 19.3	0.230847	14 8
	14 19 12 3.34	66.49	-27 52 44.8	3 24.6	0.231089	14 9
	15 19 10 56.85	66.05	27 49 20.2	3 29.9	0.231400	14 9
16 19 9 50.80	65.53	27 45 50.3	3 35.0	0.231781	14 10	
17 19 8 45.27	64.95	27 42 15.3	3 40.0	0.232232	14 11	
18 19 7 40.32	-64.30	27 38 35.3	+3 44.7	0.232752	14 12	
19 19 6 36.02	63.58	-27 34 50.6	3 49.2	0.233340	14 13	
20 19 5 32.44	62.78	27 31 1.4	3 53.7	0.233996	14 14	
21 19 4 29.66	61.92	27 27 7.7	3 58.0	0.234719	14 16	
22 19 3 27.74	60.99	27 23 9.7	4 2.3	0.235509	14 17	
23 19 2 26.75	-59.99	27 19 7.4	+4 6.3	0.236364	14 19	
24 19 1 26.76	58.93	-27 15 1.1	4 10.2	0.237283	14 21	
25 19 0 27.83		27 10 50.9		0.238266	14 23	

(Opp. in AR. Juli 10 GröÙe = 12.0

(178) BELISANA 1907.

12^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.- Δ
Juni 27	19 ^h 51 ^m 7.90	-48.90	-23° 44' 34.6	-3' 7.2	0.139054	II 27
28	19 50 19.00	50.19	23 47 41.8	3 8.2	0.137836	II 25
29	19 49 28.81	51.40	23 50 50.0	3 8.7	0.136689	II 23
30	19 48 37.41	52.55	23 53 58.7	3 9.0	0.135614	II 21
Juli 1	19 47 44.86	-53.64	23 57 7.7	-3 8.9	0.134612	II 20
2	19 46 51.22	54.65	-24 0 16.6	3 8.5	0.133683	II 18
3	19 45 56.57	55.60	24 3 25.1	3 7.7	0.132830	II 17
4	19 45 0.97	56.48	24 6 32.8	3 6.7	0.132054	II 15
5	19 44 4.49	57.28	24 9 39.5	3 5.4	0.131355	II 15
6	19 43 7.21	-57.99	24 12 44.9	-3 3.8	0.130735	II 14
7	19 42 9.22	58.65	-24 15 48.7	3 1.8	0.130194	II 13
8	19 41 10.57	59.21	24 18 50.5	2 59.7	0.129734	II 12
9	19 40 11.36	59.70	24 21 50.2	2 57.2	0.129356	II 11
10	19 39 11.66	60.10	24 24 47.4	2 54.5	0.129060	II 11
11	19 38 11.56	-60.40	24 27 41.9	-2 51.5	0.128846	II 11
12	19 37 11.16	60.63	-24 30 33.4	2 48.4	0.128714	II 11
13	19 36 10.53	60.76	24 33 21.8	2 45.0	0.128665	II 11
14	19 35 9.77	60.81	24 36 6.8	2 41.4	0.128609	II 11
♂ 15	19 34 8.96	60.77	24 38 48.2	2 37.7	0.128815	II 11
16	19 33 8.19	-60.64	24 41 25.9	-2 33.7	0.129013	II 11
17	19 32 7.55	60.43	-24 43 59.6	2 29.6	0.129294	II 11
18	19 31 7.12	60.13	24 46 29.2	2 25.3	0.129657	II 12
19	19 30 6.99	59.75	24 48 54.5	2 20.8	0.130102	II 13
20	19 29 7.24	59.28	24 51 15.3	2 16.3	0.130628	II 13
21	19 28 7.96	-58.75	24 53 31.6	-2 11.5	0.131235	II 14
22	19 27 9.21	58.13	-24 55 43.1	2 6.7	0.131921	II 15
23	19 26 11.08	57.43	24 57 49.8	2 1.8	0.132685	II 17
24	19 25 13.65	56.65	24 59 51.6	1 56.8	0.133527	II 18
25	19 24 17.00	55.82	25 1 48.4	1 51.6	0.134445	II 19
26	19 23 21.18	-54.92	25 3 40.0	-1 46.3	0.135439	II 21
27	19 22 26.26	53.95	-25 5 26.3	1 41.0	0.136508	II 23
28	19 21 32.31	52.91	25 7 7.3	1 35.8	0.137651	II 24
29	19 20 39.40	51.80	25 8 43.1	1 30.6	0.138866	II 26
30	19 19 47.60	50.63	25 10 13.7	1 25.4	0.140152	II 28
31	19 18 56.97	-49.40	25 11 39.1	-1 20.2	0.141508	II 31
Aug. 1	19 18 7.57	48.11	-25 12 59.3	1 15.0	0.142932	II 33
2	19 17 19.46		25 14 14.3		0.144424	II 35

Opp. in AR. Juli 15 GröÙe = 11.7

(148) GALLIA 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 5	20 ^h 23 ^m 13.61	—39.37	—0° 46' 18.5	—6' 15.9	0.264575	15 ^m 17 ^s
6	20 22 34.24	40.36	0 52 34.4	6 30.4	0.262775	15 13
7	20 21 53.88	41.35	0 59 4.8	6 44.9	0.261023	15 9
8	20 21 12.53	42.28	1 5 49.7	6 59.4	0.259321	15 6
9	20 20 30.25	—43.16	1 12 49.1	—7 13.8	0.257670	15 2
10	20 19 47.09	44.01	—1 20 2.9	7 28.2	0.256072	14 59
11	20 19 3.08	44.84	1 27 31.1	7 42.4	0.254527	14 56
12	20 18 18.24	45.61	1 35 13.5	7 56.5	0.253037	14 53
13	20 17 32.63	46.32	1 43 10.0	8 10.5	0.251603	14 50
14	20 16 46.31	—46.98	1 51 20.5	—8 24.4	0.250226	14 47
15	20 15 59.33	47.60	—1 59 44.9	8 38.0	0.248907	14 44
16	20 15 11.73	48.18	2 8 22.9	8 51.3	0.247648	14 42
17	20 14 23.55	48.69	2 17 14.2	9 4.3	0.246450	14 39
18	20 13 34.86	49.14	2 26 18.5	9 17.2	0.245313	14 37
19	20 12 45.72	—49.55	2 35 35.7	—9 29.9	0.244239	14 35
20	20 11 56.17	49.92	—2 45 5.6	9 42.3	0.243229	14 33
21	20 11 6.25	50.22	2 54 47.9	9 54.2	0.242284	14 31
22	20 10 16.03	50.47	3 4 42.1	10 5.9	0.241405	14 29
♂ 23	20 9 25.56	50.68	3 14 48.0	10 17.2	0.240591	14 27
24	20 8 34.88	—50.84	3 25 5.2	—10 28.3	0.239843	14 26
25	20 7 44.04	50.93	—3 35 33.5	10 39.0	0.239163	14 25
26	20 6 53.11	50.96	3 46 12.5	10 49.2	0.238551	14 24
27	20 6 2.15	50.96	3 57 1.7	10 59.2	0.238006	14 23
28	20 5 11.19	50.90	4 8 0.9	11 8.7	0.237530	14 22
29	20 4 20.29	—50.77	4 19 9.6	—11 17.8	0.237124	14 21
30	20 3 29.52	50.58	—4 30 27.4	11 26.6	0.236786	14 20
31	20 2 38.94	50.35	4 41 54.0	11 34.8	0.236518	14 19
Aug. 1	20 1 48.59	50.05	4 53 28.8	11 42.6	0.236320	14 19
2	20 0 58.54	49.69	5 5 11.4	11 50.0	0.236192	14 19
3	20 0 8.85	—49.27	5 17 1.4	—11 57.0	0.236134	14 19
4	19 59 19.58	48.80	—5 28 58.4	12 3.4	0.236145	14 19
5	19 58 30.78	48.27	5 41 1.8	12 9.5	0.236226	14 19
6	19 57 42.51	47.68	5 53 11.3	12 15.0	0.236377	14 19
7	19 56 54.83	47.02	6 5 26.3	12 20.0	0.236597	14 20
8	19 56 7.81	—46.32	6 17 46.3	—12 24.5	0.236885	14 20
9	19 55 21.49	45.58	—6 30 10.8	12 28.5	0.237241	14 21
10	19 54 35.91		6 42 39.3		0.237664	14 22

Opp. in AR. Juli 23 GröÙe = 10.9

(65) CYBELE 1907.

12 ^h Mittl. Zeit	AR.	Dir.	Dekl.	Dir.	Log. Δ	Aberr.-7
Juli 13	21 ^h 0 ^m 46.25		—14 12 58.6	—2 57.9	0.351161	18 39
14	21 0 10.86	—35.39	14 15 56.5	3 1.9	0.350286	18 37
15	20 59 34.70	36.16	14 18 58.4	3 5.7	0.349458	18 35
16	20 58 57.81	36.89	14 22 4.1	3 9.4	0.348679	18 33
17	20 58 20.23	37.58	14 25 13.5	3 13.0	0.347949	18 31
18	20 57 42.00	—38.23	—14 28 26.5	3 16.4	0.347269	18 29
19	20 57 3.15	38.85	14 31 42.9	3 19.7	0.346638	18 27
20	20 56 23.70	39.45	14 35 2.6	3 22.7	0.346058	18 25
21	20 55 43.70	40.00	14 38 25.3	3 25.6	0.345528	18 23
22	20 55 3.20	40.50	14 41 50.9	3 28.2	0.345050	18 21
23	20 54 22.22	—40.98	—14 45 19.1	3 30.8	0.344625	18 19
24	20 53 40.81	41.41	14 48 49.9	3 33.1	0.344252	18 17
25	20 52 59.01	41.80	14 52 23.0	3 35.2	0.343932	18 15
26	20 52 16.87	42.14	14 55 58.2	3 37.2	0.343665	18 13
27	20 51 34.43	42.44	14 59 35.4	—3 38.9	0.343452	18 11
28	20 50 51.71	—42.72	—15 3 14.3	3 40.4	0.343294	18 9
29	20 50 8.77	42.94	15 6 54.7	3 41.7	0.343191	18 8
30	20 49 25.66	43.11	15 10 36.4	3 42.9	0.343143	18 7
31	20 48 42.42	43.24	15 14 19.3	3 43.8	0.343150	18 6
Aug. 1	20 47 59.09	43.33	15 18 3.1	—3 44.5	0.343213	18 5
2	20 47 15.71	—43.38	—15 21 47.6	3 45.0	0.343332	18 4
3	20 46 32.33	43.38	15 25 32.6	3 45.3	0.343506	18 3
4	20 45 49.00	43.33	15 29 17.9	3 45.4	0.343735	18 2
5	20 45 5.74	43.26	15 33 3.3	3 45.2	0.344019	18 1
6	20 44 22.61	43.13	15 36 48.5	—3 44.9	0.344359	18 0
7	20 43 39.66	—42.95	—15 40 33.4	3 44.4	0.344754	18 0
8	20 42 56.95	42.71	15 44 17.8	3 43.6	0.345204	18 0
9	20 42 14.52	42.43	15 48 1.4	3 42.8	0.345702	18 0
10	20 41 32.42	42.10	15 51 44.2	3 41.8	0.346268	18 0
11	20 40 50.67	41.75	15 55 26.0	—3 40.4	0.346881	18 0
12	20 40 9.34	—41.33	—15 59 6.4	3 38.9	0.347548	18 0
13	20 39 28.46	40.88	16 2 45.3	3 37.3	0.348268	18 0
14	20 38 48.07	40.39	16 6 22.6	3 35.5	0.349040	18 0
15	20 38 8.22	39.85	16 9 58.1	3 33.5	0.349863	18 0
16	20 37 28.96	39.26	16 13 31.6	—3 32.3	0.350737	18 0
17	20 36 50.33	—38.63	—16 17 2.9	3 29.1	0.351661	18 0
18	20 36 12.36	37.97	16 20 32.0		0.352635	18 0

Opp. in AR. Aug. 2 Größe = 10.7

(106) DIONE 1907.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 29	21 48 ^m 28.51	-39.98	-20° 17' 8.4	-4 39.7	0.292712	16 ^m 18
30	21 47 48.53	40.80	20 21 48.1	4 40.1	0.291586	16 16
31	21 47 7.73	41.59	20 26 28.2	4 40.2	0.290514	16 13
Aug. 1	21 46 26.14	42.35	20 31 8.4	4 39.9	0.289498	16 11
2	21 45 43.79	-43.08	20 35 48.3	-4 39.4	0.288538	16 9
3	21 45 0.71	43.77	-20 40 27.7	4 38.6	0.287635	16 7
4	21 44 16.94	44.42	20 45 6.3	4 37.4	0.286790	16 5
5	21 43 32.52	45.00	20 49 43.7	4 36.0	0.286003	16 3
6	21 42 47.52	45.54	20 54 19.7	4 34.2	0.285276	16 2
7	21 42 1.98	-46.03	20 58 53.9	-4 32.0	0.284609	16 0
8	21 41 15.95	46.48	-21 3 25.9	4 29.6	0.284002	15 59
9	21 40 29.47	46.87	21 7 55.5	4 26.8	0.283457	15 57
10	21 39 42.60	47.19	21 12 22.3	4 23.8	0.282974	15 56
11	21 38 55.41	47.47	21 16 46.1	4 20.5	0.282553	15 56
12	21 38 7.94	-47.69	21 21 6.6	-4 16.7	0.282194	15 55
13	21 37 20.25	47.85	-21 25 23.3	4 12.7	0.281897	15 54
14	21 36 32.40	47.96	21 29 36.0	4 8.5	0.281662	15 54
15	21 35 44.44	48.01	21 33 44.5	4 3.9	0.281489	15 53
16	21 34 56.43	48.00	21 37 48.4	3 59.0	0.281378	15 53
17	21 34 8.43	-47.95	21 41 47.4	-3 53.9	0.281329	15 53
18	21 33 20.48	47.83	-21 45 41.3	3 48.5	0.281343	15 53
19	21 32 32.65	47.66	21 49 29.8	3 42.9	0.281419	15 53
20	21 31 44.99	47.43	21 53 12.7	3 37.1	0.281556	15 53
21	21 30 57.56	47.15	21 56 49.8	3 31.2	0.281754	15 54
22	21 30 10.41	-46.83	22 0 21.0	-3 25.0	0.282014	15 54
23	21 29 23.58	46.45	-22 3 46.0	3 18.6	0.282333	15 55
24	21 28 37.13	46.02	22 7 4.6	3 12.1	0.282712	15 56
25	21 27 51.11	45.54	22 10 16.7	3 5.4	0.283150	15 57
26	21 27 5.57	45.00	22 13 22.1	2 58.5	0.283648	15 58
27	21 26 20.57	-44.42	22 16 20.6	-2 51.5	0.284204	15 59
28	21 25 36.15	43.78	-22 19 12.1	2 44.3	0.284817	16 0
29	21 24 52.37	43.10	22 21 56.4	2 36.8	0.285488	16 2
30	21 24 9.27	42.36	22 24 33.2	2 29.3	0.286215	16 4
31	21 23 26.91	41.58	22 27 2.5	2 21.8	0.286997	16 5
Sept. 1	21 22 45.33	-40.74	22 29 24.3	-2 14.0	0.287834	16 7
2	21 22 4.59	39.86	-22 31 38.3	2 6.0	0.288727	16 9
3	21 21 24.73		22 33 44.3		0.289672	16 11

Opp. in AR. Aug. 15 Größe = 10.9

(149) MEDUSA 1907.

^{12^h} Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Aug. 14	22 50 ^m 29.04	-46.18	- 7 9 25.4	-5 16.2	0.061834	9 35 ^m
15	22 49 42.86	47.46	7 14 41.6	5 24.2	0.060179	9 33
16	22 48 55.40	48.69	7 20 5.8	5 31.6	0.058603	9 30
17	22 48 6.71	49.85	7 25 37.4	5 38.6	0.057107	9 29
18	22 47 16.86	-50.94	7 31 16.0	-5 45.2	0.055693	9 27
19	22 46 25.92	51.98	- 7 37 1.2	5 51.2	0.054361	9 25
20	22 45 33.94	52.96	7 42 52.4	5 57.0	0.053115	9 23
21	22 44 40.98	53.86	7 48 49.4	6 2.2	0.051955	9 22
22	22 43 47.12	54.69	7 54 51.6	6 6.8	0.050884	9 20
23	22 42 52.43	-55.44	8 0 58.4	-6 11.0	0.049902	9 19
24	22 41 56.99	56.10	- 8 7 9.4	6 14.6	0.049010	9 18
25	22 41 0.89	56.68	8 13 24.0	6 17.6	0.048211	9 17
26	22 40 4.21	57.20	8 19 41.6	6 20.2	0.047507	9 16
27	22 39 7.01	57.64	8 26 1.8	6 22.2	0.046896	9 15
28	22 38 9.37	-58.00	8 32 24.0	-6 23.8	0.046380	9 15
29	22 37 11.37	58.27	- 8 38 47.8	6 24.6	0.045960	9 14
30	22 36 13.10	58.44	8 45 12.4	6 25.0	0.045637	9 14
♂ 31	22 35 14.66	58.52	8 51 37.4	6 24.9	0.045410	9 14
Sept. 1	22 34 16.14	58.50	8 58 2.3	6 24.0	0.045280	9 13
2	22 33 17.64	-58.40	9 4 26.3	-6 22.6	0.045248	9 13
3	22 32 19.24	58.21	- 9 10 48.9	6 20.7	0.045314	9 13
4	22 31 21.03	57.93	9 17 9.6	6 18.2	0.045477	9 14
5	22 30 23.10	57.55	9 23 27.8	6 15.2	0.045737	9 14
6	22 29 25.55	57.08	9 29 43.0	6 11.6	0.046093	9 14
7	22 28 28.47	-56.52	9 35 54.6	-6 7.5	0.046545	9 15
8	22 27 31.95	55.87	- 9 42 2.1	6 2.8	0.047091	9 16
9	22 26 36.08	55.12	9 48 4.9	5 57.6	0.047731	9 16
10	22 25 40.96	54.30	9 54 2.5	5 51.8	0.048465	9 17
11	22 24 46.66	53.38	9 59 54.3	5 45.6	0.049291	9 18
12	22 23 53.28	-52.36	10 5 39.9	-5 39.0	0.050207	9 20
13	22 23 0.92	51.26	-10 11 18.9	5 31.8	0.051212	9 21
14	22 22 9.66	50.10	10 16 50.7	5 24.3	0.052306	9 22
15	22 21 19.56	48.88	10 22 15.0	5 16.3	0.053486	9 24
16	22 20 30.68	47.59	10 27 31.3	5 8.0	0.054750	9 26
17	22 19 43.09	-46.24	10 32 39.3	-4 59.4	0.056095	9 27
18	22 18 56.85	44.82	-10 37 38.7	4 50.4	0.057581	9 29
19	22 18 12.03		10 42 29.1		0.059025	9 31

Opp. in AR. Aug. 31

Größe = 11.9

(71) NIOBE 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Aug. 26	23 27 24.78	-55.52	+17 56 13.5	+2 43.3	0.327079	17 39
27	23 26 29.26	56.28	17 58 56.8	2 30.2	0.326247	17 37
28	23 25 32.98	57.01	18 1 27.0	2 17.2	0.325464	17 35
29	23 24 35.97	57.67	18 3 44.2	2 4.2	0.324731	17 33
30	23 23 38.30	-58.29	18 5 48.4	+1 51.2	0.324048	17 31
Sept. 31	23 22 40.01	58.87	+18 7 39.6	1 38.0	0.323416	17 30
1	23 21 41.14	59.40	18 9 17.6	1 24.8	0.322836	17 28
2	23 20 41.74	59.86	18 10 42.4	1 11.6	0.322310	17 27
3	23 19 41.88	60.27	18 11 54.0	0 58.6	0.321838	17 26
4	23 18 41.61	-60.63	18 12 52.6	+0 45.6	0.321420	17 25
5	23 17 40.98	60.94	+18 13 38.2	0 32.7	0.321056	17 24
6	23 16 40.04	61.19	18 14 10.9	0 20.0	0.320747	17 23
7	23 15 38.85	61.37	18 14 30.9	+0 7.4	0.320494	17 23
8	23 14 37.48	61.49	18 14 38.3	-0 5.3	0.320297	17 22
9	23 13 35.99	-61.56	18 14 33.0	-0 17.8	0.320157	17 22
♃ 10	23 12 34.43	61.56	+18 14 15.2	0 30.2	0.320075	17 22
11	23 11 32.87	61.50	18 13 45.0	0 42.2	0.320049	17 22
12	23 10 31.37	61.39	18 13 2.8	0 54.0	0.320081	17 22
13	23 9 29.98	61.21	18 12 8.8	1 5.8	0.320170	17 22
14	23 8 28.77	-60.97	18 11 3.0	-1 17.2	0.320317	17 22
15	23 7 27.80	60.69	+18 9 45.8	1 28.2	0.320522	17 23
16	23 6 27.11	60.37	18 8 17.6	1 39.1	0.320784	17 23
17	23 5 26.74	59.97	18 6 38.5	1 49.6	0.321102	17 24
18	23 4 26.77	59.52	18 4 48.9	1 59.8	0.321478	17 25
19	23 3 27.25	-59.02	18 2 49.1	-2 9.8	0.321910	17 26
20	23 2 28.23	58.48	+18 0 39.3	2 19.6	0.322398	17 27
21	23 1 29.75	57.86	17 58 19.7	2 29.0	0.322942	17 29
22	23 0 31.89	57.20	17 55 50.7	2 38.2	0.323542	17 30
23	22 59 34.69	56.52	17 53 12.5	2 46.9	0.324198	17 32
24	22 58 38.17	-55.76	17 50 25.6	-2 55.3	0.324908	17 33
25	22 57 42.41	54.97	+17 47 30.3	3 3.4	0.325673	17 35
26	22 56 47.44	54.13	17 44 26.9	3 11.1	0.326492	17 37
27	22 55 53.31	53.24	17 41 15.8	3 18.4	0.327363	17 39
28	22 55 0.07	52.31	17 37 57.4	3 25.4	0.328287	17 42
29	22 54 7.76	-51.33	17 34 32.0	-3 32.2	0.329264	17 44
30	22 53 16.43	50.30	+17 30 59.8	3 38.6	0.330293	17 47
Okt. 1	22 52 26.13		17 27 21.2		0.331372	17 49

Opp. in AR. Sept. 10 GröÙe = 11.3

(122) GERDA 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Aug. 26	23 ^h 30 ^m 8.24	-36.94	-2° 41' 53.2	-4' 17.6	0.380461	19 ^m 57
27	23 29 31.30	37.53	2 46 10.8	4 21.6	0.379696	19 55
28	23 28 53.77	38.11	2 50 32.4	4 25.4	0.378978	19 53
29	23 28 15.66	38.65	2 54 57.8	4 29.0	0.378308	19 51
30	23 27 37.01	-39.14	2 59 26.8	-4 32.4	0.377688	19 49
Sept. 31	23 26 57.87	39.60	-3 3 59.2	4 35.4	0.377118	19 48
1	23 26 18.27	40.04	3 8 34.6	4 38.4	0.376598	19 46
2	23 25 38.23	40.44	3 13 13.0	4 41.0	0.376128	19 45
3	23 24 57.79	40.78	3 17 54.0	4 43.4	0.375710	19 44
4	23 24 17.01	-41.09	3 22 37.4	-4 45.4	0.375345	19 43
5	23 23 35.92	41.37	-3 27 22.8	4 47.3	0.375033	19 42
6	23 22 54.55	41.60	3 32 10.1	4 48.9	0.374773	19 42
7	23 22 12.95	41.78	3 36 59.0	4 50.2	0.374565	19 41
8	23 21 31.17	41.94	3 41 49.2	4 51.1	0.374411	19 41
9	23 20 49.23	-42.05	3 46 40.3	-4 51.8	0.374310	19 40
10	23 20 7.18	42.11	-3 51 32.1	4 52.2	0.374264	19 40
11	23 19 25.07	42.13	3 56 24.3	4 52.4	0.374272	19 40
♁ 12	23 18 42.94	42.10	4 1 16.7	4 52.2	0.374333	19 41
13	23 18 0.84	42.02	4 6 8.9	4 51.8	0.374448	19 41
14	23 17 18.82	-41.92	4 11 0.7	-4 51.0	0.374618	19 41
15	23 16 36.90	41.78	-4 15 51.7	4 50.0	0.374841	19 42
16	23 15 55.12	41.59	4 20 41.7	4 48.8	0.375117	19 42
17	23 15 13.53	41.36	4 25 30.5	4 47.4	0.375447	19 43
18	23 14 32.17	41.10	4 30 17.9	4 45.6	0.375829	19 44
19	23 13 51.07	-40.80	4 35 3.5	-4 43.5	0.376264	19 46
20	23 13 10.27	40.45	-4 39 47.0	4 41.1	0.376751	19 47
21	23 12 29.82	40.07	4 44 28.1	4 38.5	0.377289	19 48
22	23 11 49.75	39.65	4 49 6.6	4 35.8	0.377879	19 50
23	23 11 10.10	39.21	4 53 42.4	4 32.9	0.378521	19 52
24	23 10 30.89	-38.73	4 58 15.3	-4 29.6	0.379213	19 54
25	23 9 52.16	38.21	-5 2 44.9	4 26.1	0.379954	19 56
26	23 9 13.95	37.65	5 7 11.0	4 22.4	0.380744	19 58
27	23 8 36.30	37.06	5 11 33.4	4 18.6	0.381584	20 0
28	23 7 59.24	36.44	5 15 52.0	4 14.6	0.382472	20 3
29	23 7 22.80	-35.78	5 20 6.6	-4 10.4	0.383407	20 5
30	23 6 47.02	35.09	-5 24 17.0	4 6.0	0.384389	20 8
Okt. 1	23 6 11.93		5 28 23.0		0.385417	20 11

Opp. in AR. Sept. 12

Größe = 11.7

(28) BELLONA 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Aug. 18	23 38 ^m 41.19	-31.22	- 7 5 57.0	-6 42.3	0.331865	17 50 ^m
19	23 38 9.97	32.23	7 12 39.3	6 47.7	0.330433	17 47
20	23 37 37.74	33.20	7 19 27.0	6 52.9	0.329047	17 44
21	23 37 4.54	34.15	7 26 19.9	6 57.8	0.327707	17 40
22	23 36 30.39	-35.07	7 33 17.7	-7 2.4	0.326414	17 37
23	23 35 55.32	35.96	- 7 40 20.1	7 6.7	0.325170	17 34
24	23 35 19.36	36.84	7 47 26.8	7 10.7	0.323975	17 31
25	23 34 42.52	37.67	7 54 37.5	7 14.5	0.322831	17 28
26	23 34 4.85	38.48	8 1 52.0	7 17.8	0.321739	17 26
27	23 33 26.37	-39.26	8 9 9.8	-7 20.9	0.320700	17 23
28	23 32 47.11	40.00	- 8 16 30.7	7 23.6	0.319714	17 21
29	23 32 7.11	40.71	8 23 54.3	7 25.9	0.318783	17 18
30	23 31 26.40	41.36	8 31 20.2	7 27.9	0.317907	17 16
31	23 30 45.04	41.98	8 38 48.1	7 29.5	0.317087	17 15
Sept. 1	23 30 3.06	-42.57	8 46 17.6	-7 30.7	0.316325	17 13
2	23 29 20.49	43.11	- 8 53 48.3	7 31.5	0.315621	17 11
3	23 28 37.38	43.60	9 1 19.8	7 31.9	0.314975	17 10
4	23 27 53.78	44.05	9 8 51.7	7 32.0	0.314388	17 8
5	23 27 9.73	44.47	9 16 23.7	7 31.7	0.313861	17 7
6	23 26 25.26	-44.83	9 23 55.4	-7 30.9	0.313394	17 6
7	23 25 40.43	45.14	- 9 31 26.3	7 29.8	0.312988	17 5
8	23 24 55.29	45.40	9 38 56.1	7 28.1	0.312643	17 4
9	23 24 9.89	45.61	9 46 24.2	7 26.1	0.312359	17 3
10	23 23 24.28	45.77	9 53 50.3	7 23.7	0.312137	17 3
11	23 22 38.51	-45.88	10 1 14.0	-7 21.0	0.311976	17 2
12	23 21 52.63	45.94	-10 8 35.0	7 17.7	0.311877	17 2
♂ 13	23 21 6.69	45.94	10 15 52.7	7 14.2	0.311840	17 2
14	23 20 20.75	45.90	10 23 6.9	7 10.3	0.311865	17 2
15	23 19 34.85	45.80	10 30 17.2	7 6.0	0.311951	17 2
16	23 18 49.05	-45.67	10 37 23.2	-7 1.4	0.312097	17 3
17	23 18 3.38	45.48	-10 44 24.6	6 56.4	0.312305	17 3
18	23 17 17.90	45.26	10 51 21.0	6 51.1	0.312573	17 4
19	23 16 32.64	44.97	10 58 12.1	6 45.5	0.312901	17 5
20	23 15 47.67	44.65	11 4 57.6	6 39.5	0.313288	17 6
21	23 15 3.02	-44.28	11 11 37.1	-6 33.2	0.313734	17 7
22	23 14 18.74	43.86	-11 18 10.3	6 26.7	0.314239	17 8
23	23 13 34.88		11 24 37.0		0.314803	17 9

(Opp. in AR. Sept. 13 GröÙe = 10.6

(433) EROS 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Sept. 14	^h 10 ^m 7.86	- 49.34	+32° 44' 13.7	+17' 5.2	9.808289	5 ^m 20 ^s
15	I 9 18.52	52.96	33 I 18.9	16 48.8	9.803662	5 17
16	I 8 25.56	56.60	33 18 7.7	16 31.1	9.799071	5 13
17	I 7 28.96	60.30	33 34 38.8	16 12.3	9.794519	5 10
18	I 6 28.66	- 63.97	33 50 51.1	+15 52.2	9.790007	5 7
19	I 5 24.69	67.63	+34 6 43.3	15 30.9	9.785538	5 4
20	I 4 17.06	71.32	34 22 14.2	15 8.1	9.781116	5 I
21	I 3 5.74	74.98	34 37 22.3	14 43.8	9.776743	4 58
22	I I 50.76	78.64	34 52 6.1	14 18.2	9.772422	4 55
23	I 0 32.12	- 82.26	35 6 24.3	+13 51.0	9.768157	4 52
24	0 59 9.86	85.82	+35 20 15.3	13 22.3	9.763951	4 49
25	0 57 44.04	89.35	35 33 37.6	12 52.0	9.759806	4 46
26	0 56 14.69	92.79	35 46 29.6	12 20.2	9.755727	4 44
27	0 54 41.90	96.14	35 58 49.8	11 46.9	9.751716	4 41
28	0 53 5.76	- 99.40	36 10 36.7	+11 11.8	9.747778	4 38
29	0 51 26.36	102.54	+36 21 48.5	10 35.4	9.743915	4 36
30	0 49 43.82	105.54	36 32 23.9	9 57.5	9.740131	4 34
Okt. 1	0 47 58.28	108.40	36 42 21.4	9 18.1	9.736430	4 31
2	0 46 9.88	111.07	36 51 39.5	8 37.5	9.732814	4 29
3	0 44 18.81	- 113.57	37 0 17.0	+ 7 55.4	9.729287	4 27
4	0 42 25.24	115.86	+37 8 12.4	7 12.3	9.725852	4 25
♂ 5	0 40 29.38	117.95	37 15 24.7	6 28.0	9.722512	4 23
6	0 38 31.43	119.79	37 21 52.7	5 42.7	9.719270	4 21
7	0 36 31.64	121.40	37 27 35.4	4 56.6	9.716129	4 19
8	0 34 30.24	- 122.75	37 32 32.0	+ 4 9.8	9.713091	4 17
9	0 32 27.49	123.81	+37 36 41.8	3 22.5	9.710159	4 15
10	0 30 23.68	124.63	37 40 4.3	2 34.9	9.707335	4 14
11	0 28 19.05	125.15	37 42 39.2	1 47.1	9.704621	4 12
12	0 26 13.90	125.40	37 44 26.3	0 59.0	9.702018	4 11
13	0 24 8.50	- 125.36	37 45 25.3	+ 0 11.0	9.699528	4 9
14	0 22 3.14	125.04	+37 45 36.3	- 0 36.5	9.697151	4 8
15	0 19 58.10	124.43	37 44 59.8	1 24.0	9.694889	4 7
16	0 17 53.67	123 55	37 43 35.8	2 10.9	9.692742	4 5
17	0 15 50.12	122.39	37 41 24.9	2 57.2	9.690711	4 4
18	0 13 47.73	- 120.97	37 38 27.7	- 3 42.7	9.688796	4 3
19	0 11 46.76	119.28	+37 34 45.0	4 27.6	9.686997	4 2
20	0 9 47.48		37 30 17.4		9.685314	4 I

(Opp. in AR. Okt. 5 GröÙe = 10.1

(53) KALYPSO 1907.

^{12h} Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Okt. 9	2 20 ^m 27.32	-39.90	+5° 46' 11.4	-6' 19.3	0.136900	II ^m 23'
10	2 19 47.42	41.23	5 39 52.1	6 22.0	0.135120	II 20
11	2 19 6.29	42.32	5 33 30.1	6 24.2	0.133410	II 18
12	2 18 23.97	43.44	5 27 5.9	6 25.8	0.131771	II 15
13	2 17 40.53	-44.51	5 20 40.1	-6 26.9	0.130205	II 13
14	2 16 56.02	45.52	+5 14 13.2	6 27.6	0.128715	II 11
15	2 16 10.50	46.46	5 7 45.6	6 27.8	0.127301	II 8
16	2 15 24.04	47.35	5 1 17.8	6 27.5	0.125965	II 6
17	2 14 36.69	48.17	4 54 50.3	6 26.6	0.124709	II 4
18	2 13 48.52	-48.92	4 48 23.7	-6 25.3	0.123532	II 3
19	2 12 59.60	49.61	+4 41 58.4	6 23.6	0.122436	II 1
20	2 12 9.99	50.23	4 35 34.8	6 21.2	0.121422	IO 59
21	2 11 19.76	50.78	4 29 13.6	6 18.4	0.120492	IO 58
22	2 10 28.98	51.26	4 22 55.2	6 15.1	0.119644	IO 57
23	2 9 37.72	-51.68	4 16 40.1	-6 11.3	0.118880	IO 56
24	2 8 46.04	52.02	+4 10 28.8	6 7.1	0.118202	IO 55
25	2 7 54.02	52.28	4 4 21.7	6 2.4	0.117610	IO 54
26	2 7 1.74	52.46	3 58 19.3	5 57.1	0.117103	IO 53
♂ 27	2 6 9.28	52.58	3 52 22.2	5 51.4	0.116683	IO 52
28	2 5 16.70	-52.62	3 46 30.8	-5 45.2	0.116349	IO 52
29	2 4 24.08	52.58	+3 40 45.6	5 38.6	0.116103	IO 51
30	2 3 31.50	52.45	3 35 7.0	5 31.4	0.115943	IO 51
31	2 2 39.05	52.24	3 29 35.6	5 23.6	0.115871	IO 51
Nov. 1	2 1 46.81	51.97	3 24 12.0	5 15.6	0.115886	IO 51
2	2 0 54.84	-51.60	3 18 56.4	-5 7.0	0.115987	IO 51
3	2 0 3.24	51.16	+3 13 49.4	4 58.0	0.116175	IO 51
4	1 59 12.08	50.63	3 8 51.4	4 48.5	0.116449	IO 52
5	1 58 21.45	50.02	3 4 2.9	4 38.7	0.116808	IO 52
6	1 57 31.43	49.35	2 59 24.2	4 28.4	0.117252	IO 53
7	1 56 42.08	-48.59	2 54 55.8	-4 17.9	0.117778	IO 54
8	1 55 53.49	47.74	+2 50 37.9	4 6.8	0.118387	IO 55
9	1 55 5.75	46.84	2 46 31.1	3 55.4	0.119077	IO 56
10	1 54 18.91	45.86	2 42 35.7	3 43.7	0.119845	IO 57
11	1 53 33.05	44.82	2 38 52.0	3 31.7	0.120691	IO 58
12	1 52 48.23	-43.72	2 35 20.3	-3 19.3	0.121613	II 0
13	1 52 4.51	42.54	+2 32 1.0	3 6.7	0.122609	II 1
14	1 51 21.97		2 28 54.3		0.123677	II 3

Opp. in AR. Okt. 27 Größe = 10,8

(153) HILDA 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Z
Nov. 10	4 38 ^m 40.49	-34.90	+19 7 47.6	-2 26.7	0.543153	29 1
11	4 38 5.59	35.46	19 5 20.9	2 27.5	0.542534	28 59
12	4 37 30.13	35.98	19 2 53.4	2 28.3	0.541951	28 56
13	4 36 54.15	36.47	19 0 25.1	2 29.1	0.541403	28 54
14	4 36 17.68	-36.94	18 57 56.0	-2 29.8	0.540891	28 52
15	4 35 40.74	37.38	+18 55 26.2	2 30.4	0.540415	28 50
16	4 35 3.36	37.80	18 52 55.8	2 31.0	0.539976	28 48
17	4 34 25.56	38.18	18 50 24.8	2 31.4	0.539574	28 47
18	4 33 47.38	38.53	18 47 53.4	2 31.8	0.539210	28 45
19	4 33 8.85	-38.86	18 45 21.6	-2 32.2	0.538883	28 44
20	4 32 29.99	39.16	+18 42 49.4	2 32.5	0.538594	28 43
21	4 31 50.83	39.43	18 40 16.9	2 32.7	0.538344	28 42
22	4 31 11.40	39.66	18 37 44.2	2 32.9	0.538132	28 41
23	4 30 31.74	39.86	18 35 11.3	2 33.0	0.537958	28 40
24	4 29 51.88	-40.03	18 32 38.3	-2 32.9	0.537824	28 40
25	4 29 11.85	40.17	+18 30 5.4	2 32.7	0.537729	28 39
26	4 28 31.68	40.27	18 27 32.7	2 32.5	0.537674	28 39
27	4 27 51.41	40.34	18 25 0.2	2 32.2	0.537659	28 39
28	4 27 11.07	40.38	18 22 28.0	2 31.8	0.537683	28 39
29	4 26 30.69	-40.40	18 19 56.2	-2 31.4	0.537747	28 40
30	4 25 50.29	40.37	+18 17 24.8	2 30.8	0.537851	28 40
♂ Dez. 1	4 25 9.92	40.31	18 14 54.0	2 30.2	0.537995	28 41
2	4 24 29.61	40.22	18 12 23.8	2 29.4	0.538179	28 41
3	4 23 49.39	40.10	18 9 54.4	2 28.5	0.538403	28 42
4	4 23 9.29	-39.94	18 7 25.9	-2 27.5	0.538666	28 43
5	4 22 29.35	39.75	+18 4 58.4	2 26.4	0.538969	28 44
6	4 21 49.60	39.53	18 2 32.0	2 25.3	0.539312	28 45
7	4 21 10.07	39.27	18 0 6.7	2 24.1	0.539695	28 47
8	4 20 30.80	38.98	17 57 42.6	2 22.7	0.540118	28 49
9	4 19 51.82	-38.65	17 55 19.9	-2 21.2	0.540580	28 51
10	4 19 13.17	38.29	+17 52 58.7	2 19.7	0.541080	28 53
11	4 18 34.88	37.91	17 50 39.0	2 18.1	0.541618	28 55
12	4 17 56.97	37.50	17 48 20.9	2 16.3	0.542193	28 57
13	4 17 19.47	37.05	17 46 4.6	2 14.5	0.542805	29 0
14	4 16 42.42	-36.57	17 43 50.1	-2 12.6	0.543455	29 2
15	4 16 5.85	36.07	+17 41 37.5	2 10.5	0.544141	29 5
16	4 15 29.78		17 39 27.0		0.544862	29 8

Opp. in AR. Dez. 1 GröÙe = 13.2

(108) HECUBA 1907.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Nov. 18	5 ^h 5 ^m 54.93	45.88	+28° 58' 48.2	10 9.4	0.355830	18 ^m 51 ^s
19	5 5 9.05	46.85	28 58 57.6	0 5.0	0.354640	18 48
20	5 4 22.20	47.78	28 59 2.6	10 0.5	0.353500	18 45
21	5 3 34.42	48.67	28 59 3.1	0 4.1	0.352409	18 42
22	5 2 45.75	49.51	28 58 59.0	0 8.8	0.351369	18 40
23	5 1 56.24	50.30	+28 58 50.2	0 13.6	0.350380	18 37
24	5 1 5.94	51.05	28 58 36.6	0 18.4	0.349443	18 35
25	5 0 14.89	51.75	28 58 18.2	0 23.3	0.348559	18 32
26	4 59 23.14	52.39	28 57 54.9	0 28.2	0.347730	18 30
27	4 58 30.75	52.98	28 57 26.7	0 33.1	0.346956	18 28
28	4 57 37.77	53.52	+28 56 53.6	0 38.0	0.346237	18 26
29	4 56 44.25	53.99	28 56 15.6	0 42.9	0.345574	18 25
30	4 55 50.26	54.40	28 55 32.7	0 47.8	0.344967	18 23
Dez. 1	4 54 55.86	54.76	28 54 44.9	0 52.7	0.344417	18 22
2	4 54 1.10	55.06	28 53 52.2	0 57.5	0.343926	18 21
3	4 53 6.04	55.29	+28 52 54.7	1 2.3	0.343494	18 20
4	4 52 10.75	55.46	28 51 52.4	1 7.0	0.343122	18 19
5	4 51 15.29	55.56	28 50 45.4	1 11.7	0.342809	18 18
6	4 50 19.73	55.59	28 49 33.7	1 16.4	0.342556	18 17
7	4 49 24.14	55.57	28 48 17.3	1 20.9	0.342362	18 17
8	4 48 28.57	55.48	+28 46 56.4	1 25.3	0.342229	18 16
9	4 47 33.09	55.34	28 45 31.1	1 29.6	0.342155	18 16
10	4 46 37.75	55.12	28 44 1.5	1 33.6	0.342141	18 16
11	4 45 42.63	54.84	28 42 27.9	1 37.5	0.342186	18 16
12	4 44 47.79	54.51	28 40 50.4	1 41.4	0.342290	18 16
13	4 43 53.28	54.12	+28 39 9.0	1 45.2	0.342454	18 17
14	4 42 59.16	53.66	28 37 23.8	1 48.8	0.342677	18 17
15	4 42 5.50	53.16	28 35 35.0	1 52.2	0.342958	18 18
16	4 41 12.34	52.60	28 33 42.8	1 55.5	0.343297	18 19
17	4 40 19.74	51.99	28 31 47.3	1 58.7	0.343693	18 20
18	4 39 27.75	51.32	+28 29 48.6	2 1.8	0.344146	18 21
19	4 38 36.43	50.59	28 27 46.8	2 4.6	0.344656	18 22
20	4 37 45.84	49.84	28 25 42.2	2 7.2	0.345221	18 24
21	4 36 56.00	49.01	28 23 35.0	2 9.6	0.345841	18 25
22	4 36 6.99	48.14	28 21 25.4	2 11.8	0.346516	18 27
23	4 35 18.85	47.22	+28 19 13.6	2 13.8	0.347245	18 29
24	4 34 31.63		28 16 59.8		0.348028	18 31

Opp. in AR. Dez. 6 Größe — 11.6

(26) PROSERPINA 1907.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 22	5 17 ^m 21.48		+ 25 33 13.5		0.285980	16 ^m 3
23	5 16 27.94	53.54	25 33 39.5	+0 26.0	0.284862	16 1
24	5 15 33.37	54.57	25 34 2.3	0 22.8	0.283803	15 58
25	5 14 37.81	55.56	25 34 21.8	0 19.5	0.282805	15 56
26	5 13 41.30	56.51	25 34 37.9	0 16.1	0.281868	15 54
27	5 12 43.90	57.40	+ 25 34 50.7	+0 12.8	0.280993	15 52
28	5 11 45.69	58.21	25 35 0.1	0 9.4	0.280181	15 50
29	5 10 46.73	58.96	25 35 6.0	0 5.9	0.279433	15 49
30	5 9 47.07	59.66	25 35 8.4	+0 2.4	0.278750	15 47
Dez. 1	5 8 46.77	60.31	25 35 7.2	0 1.2	0.278133	15 46
2	5 7 45.91	60.86	+ 25 35 2.5	-0 4.7	0.277582	15 45
3	5 6 44.57	61.34	25 34 54.2	0 8.3	0.277100	15 44
4	5 5 42.82	61.75	25 34 42.3	0 11.9	0.276686	15 43
5	5 4 40.71	62.11	25 34 26.0	0 15.4	0.276341	15 42
6	5 3 38.32	62.39	25 34 8.1	0 18.8	0.276064	15 41
7	5 2 35.74	62.58	+ 25 33 45.8	0 22.3	0.275856	15 41
8	5 1 33.04	62.7	25 33 20.2	0 25.6	0.275718	15 41
♁ 9	5 0 30.28	62.76	25 32 51.3	0 28.9	0.275648	15 40
10	4 59 27.56	62.72	25 32 19.3	0 32.0	0.275648	15 40
11	4 58 24.95	62.61	25 31 44.3	0 35.0	0.275718	15 41
12	4 57 22.51	62.44	+ 25 31 6.3	0 38.0	0.275856	15 41
13	4 56 20.31	62.21	25 30 25.5	0 40.8	0.276064	15 41
14	4 55 18.43	61.88	25 29 41.9	0 43.6	0.276340	15 42
15	4 54 16.93	61.50	25 28 55.7	0 46.2	0.276684	15 43
16	4 53 15.89	61.04	25 28 6.9	0 48.8	0.277095	15 44
17	4 52 15.37	60.52	+ 25 27 15.8	0 51.1	0.277573	15 45
18	4 51 15.43	59.94	25 26 22.4	0 53.4	0.278118	15 46
19	4 50 16.13	59.30	25 25 26.8	0 55.6	0.278728	15 47
20	4 49 17.54	58.59	25 24 29.2	0 57.6	0.279404	15 49
21	4 48 19.72	57.82	25 23 29.8	0 59.4	0.280144	15 50
22	4 47 22.73	56.99	+ 25 22 28.6	1 1.2	0.280947	15 52
23	4 46 26.63	56.1	25 21 25.9	1 2.7	0.281813	15 54
24	4 45 31.47	55.16	25 20 21.9	1 4.0	0.282740	15 56
25	4 44 37.31	54.16	25 19 16.6	1 5.3	0.283728	15 58
26	4 43 44.21	53.10	25 18 10.3	1 6.3	0.284775	16 0
27	4 42 52.22	51.99	+ 25 17 3.2	1 7.1	0.285881	16 3
28	4 42 1.39	50.83	25 15 55.4	1 7.8	0.287045	16 5

Opp. in AR. Dez. 9

Größe = 11.0

(37) FIDES 1907.

	12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
Nov.	22	5 ^h 39 ^m 38 ^s .33		+28° 19' 7.0		0.097396	IO ^m 24 ^s
	23	5 38 54.69	-43.64	28 20 39.8	+1 32.8	0.095792	IO 22
	24	5 38 9.26	45.43	28 22 8.0	1 28.2	0.094260	IO 19
	25	5 37 22.10	47.16	28 23 31.5	1 23.5	0.092802	IO 17
	26	5 36 33.29	48.81	28 24 50.1	1 18.6	0.091419	IO 15
	27	5 35 42.88	-50.41	+28 26 3.5	+1 13.4	0.090114	IO 14
	28	5 34 50.94	51.94	28 27 11.6	1 8.1	0.088888	IO 12
	29	5 33 57.54	53.40	28 28 14.3	1 2.7	0.087742	IO 10
	30	5 33 2.78	54.76	28 29 11.4	0 57.1	0.086678	IO 9
Dez.	1	5 32 6.74	56.04	28 30 2.7	0 51.3	0.085699	IO 7
	2	5 31 9.50	-57.24	+28 30 47.9	+0 45.2	0.084806	IO 6
	3	5 30 11.16	58.34	28 31 26.9	0 39.0	0.084002	IO 5
	4	5 29 11.82	59.34	28 31 59.7	0 32.8	0.083287	IO 4
	5	5 28 11.58	60.24	28 32 26.2	0 26.5	0.082661	IO 3
	6	5 27 10.55	61.03	28 32 46.2	0 20.0	0.082128	IO 2
	7	5 26 8.85	-61.70	+28 32 59.6	+0 13.4	0.081688	IO 2
	8	5 25 6.57	62.28	28 33 6.3	0 6.7	0.081341	IO 1
	9	5 24 3.83	62.74	28 33 6.7	+0 0.4	0.081088	IO 1
	10	5 23 0.73	63.10	28 33 0.9	-0 5.8	0.080928	IO 1
	11	5 21 57.39	63.34	28 32 48.8	0 12.1	0.080861	IO 1
	12	5 20 53.92	-63.47	+28 32 30.5	-0 18.3	0.080889	IO 1
♄	13	5 19 50.42	63.50	28 32 6.0	0 24.5	0.081012	IO 1
	14	5 18 47.00	63.42	28 31 35.3	0 30.7	0.081230	IO 1
	15	5 17 43.77	63.23	28 30 58.5	0 36.8	0.081544	IO 2
	16	5 16 40.82	62.95	28 30 15.5	0 43.0	0.081953	IO 2
	17	5 15 38.26	-62.56	+28 29 26.5	-0 49.0	0.082453	IO 3
	18	5 14 36.20	62.06	28 28 31.6	0 54.9	0.083044	IO 4
	19	5 13 34.74	61.46	28 27 31.0	1 0.6	0.083726	IO 5
	20	5 12 33.96	60.78	28 26 24.7	1 6.3	0.084498	IO 6
	21	5 11 33.98	59.98	28 25 13.0	1 11.7	0.085360	IO 7
	22	5 10 34.88	-59.10	+28 23 56.2	-1 16.8	0.086310	IO 8
	23	5 9 36.77	58.11	28 22 34.4	1 21.8	0.087349	IO 10
	24	5 8 39.73	57.04	28 21 8.0	1 26.4	0.088475	IO 11
	25	5 7 43.85	55.88	28 19 37.2	1 30.8	0.089687	IO 13
	26	5 6 49.21	54.64	28 18 2.4	1 34.8	0.090984	IO 15
	27	5 5 55.90	-53.31	+28 16 24.0	-1 38.4	0.092364	IO 17
	28	5 5 3.99	51.91	28 14 42.4	1 41.6	0.093827	IO 18

Opp. in AR. Dez. 13 Größe = 9.3

(198) AMPELLA 1907 - 1908.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
1907 Dez. 8	6 ^h 42 ^m 48.98	-60.52	+ 22° 41' 9.6	3 21.0	0.158136	11 ^m 57
9	6 41 48.46	61.81	22 37 48.6	3 21.7	0.157372	11 56
10	6 40 46.65	63.00	22 34 26.9	3 22.5	0.156686	11 55
11	6 39 43.65	64.11	22 31 4.4	3 23.1	0.156078	11 54
12	6 38 39.54	-65.14	22 27 41.3	3 23.8	0.155550	11 53
13	6 37 34.40	66.09	+ 22 24 17.5	3 24.5	0.155102	11 53
14	6 36 28.31	66.96	22 20 53.0	3 25.2	0.154735	11 52
15	6 35 21.35	67.74	22 17 27.8	3 25.9	0.154451	11 52
16	6 34 13.61	68.43	22 14 1.9	3 26.6	0.154250	11 51
17	6 33 5.18	69.04	22 10 35.3	3 27.1	0.154131	11 51
18	6 31 56.14	69.56	+ 22 7 8.2	3 27.7	0.154096	11 51
19	6 30 46.58	70.00	22 3 40.5	3 28.3	0.154148	11 51
20	6 29 36.58	70.34	22 0 12.2	3 28.8	0.154286	11 51
21	6 28 26.24	70.57	21 56 43.4	3 29.3	0.154509	11 52
22	6 27 15.67	70.73	21 53 14.1	3 29.7	0.154818	11 52
23	6 26 4.94	70.79	+ 21 49 44.4	3 30.1	0.155214	11 53
24	6 24 54.15	70.76	21 46 14.3	3 30.3	0.155696	11 53
25	6 23 43.39	70.63	21 42 44.0	3 30.3	0.156264	11 54
26	6 22 32.76	70.43	21 39 13.7	3 30.1	0.156918	11 55
27	6 21 22.33	70.13	21 35 43.6	3 29.8	0.157659	11 57
28	6 20 12.20	69.74	+ 21 32 13.8	3 29.3	0.158487	11 58
29	6 19 2.46	69.24	21 28 44.5	3 28.8	0.159400	12 0
30	6 17 53.22	68.66	21 25 15.7	3 28.2	0.160398	12 1
31	6 16 44.56	67.98	21 21 47.5	3 27.4	0.161481	12 3
1908 Jan. 1	6 15 36.58	-67.24	21 18 20.1	3 26.5	0.162647	12 5
2	6 14 29.34	66.39	+ 21 14 53.6	3 25.6	0.163895	12 7
3	6 13 22.95	65.46	21 11 28.0	3 24.6	0.165224	12 9
4	6 12 17.49	64.44	21 8 3.4	3 23.5	0.166634	12 12
5	6 11 13.05	63.34	21 4 39.9	3 22.2	0.168124	12 14
6	6 10 9.71	62.18	21 1 17.7	3 20.8	0.169690	12 17
7	6 9 7.53	60.94	+ 20 57 56.9	3 19.2	0.171332	12 20
8	6 8 6.59	59.63	20 54 37.7	3 17.5	0.173050	12 23
9	6 7 6.96	58.27	20 51 20.2	3 15.6	0.174840	12 26
10	6 6 8.69	56.86	20 48 4.6	3 13.6	0.176698	12 29
11	6 5 11.83	55.38	20 44 51.0	3 11.4	0.178620	12 32
12	6 4 16.45	53.82	+ 20 41 39.6	3 9.1	0.180605	12 36
13	6 3 22.63		20 38 30.5		0.182652	12 39

Opp. in AR. Dez. 27

Größe = 11.0

(270) ANAHITA 1907-1908.

12 ^h Mittl. Zeit	AR.	Dif.	Dekl.	Dif.	Log. Δ	Aberr.-Zt.
1907 Dez. 8	6 ^h 47 ^m 25.50	59.09	+ 21° 54' 45.6	10.7	0.140523	II ^m 29 ^s
9	6 46 26.41	60.61	21 54 34.9	10.1	0.139358	II 27
10	6 45 25.80	62.06	21 54 24.9	9.5	0.138268	II 25
11	6 44 23.74	63.43	21 54 15.4	9.2	0.137255	II 24
12	6 43 20.31	64.73	21 54 6.2	8.9	0.136321	II 22
13	6 42 15.58	65.96	+ 21 53 57.3	8.7	0.135467	II 21
14	6 41 9.62	67.10	21 53 48.6	8.8	0.134695	II 20
15	6 40 2.52	68.14	21 53 39.8	9.0	0.134006	II 19
16	6 38 54.38	69.10	21 53 30.8	9.2	0.133401	II 18
17	6 37 45.28	69.98	21 53 21.6	9.5	0.132882	II 17
18	6 36 35.30	70.76	+ 21 53 12.1	9.9	0.132449	II 16
19	6 35 24.54	71.45	21 53 2.2	10.5	0.132103	II 16
20	6 34 13.09	72.05	21 52 51.7	11.0	0.131845	II 15
21	6 33 1.04	72.56	21 52 40.7	11.6	0.131675	II 15
22	6 31 48.48	72.98	21 52 29.1	12.2	0.131594	II 15
23	6 30 35.50	73.30	+ 21 52 16.9	12.8	0.131604	II 15
24	6 29 22.20	73.51	21 52 4.1	13.6	0.131704	II 15
25	6 28 8.69	73.62	21 51 50.5	14.4	0.131894	II 15
26	6 26 55.07	73.63	21 51 36.1	15.3	0.132175	II 16
27	6 25 41.44	73.54	21 51 20.8	16.3	0.132547	II 16
28	6 24 27.90	73.36	+ 21 51 4.5	17.2	0.133009	II 17
29	6 23 14.54	73.07	21 50 47.3	18.0	0.133562	II 18
30	6 22 1.47	72.69	21 50 29.3	18.9	0.134205	II 19
31	6 20 48.78	72.21	21 50 10.4	19.8	0.134939	II 20
1908 Jan. 1	6 19 36.57	71.62	21 49 50.6	20.6	0.135763	II 21
2	6 18 24.95	70.92	+ 21 49 30.0	21.4	0.136675	II 23
3	6 17 14.03	70.12	21 49 8.6	22.2	0.137674	II 24
4	6 16 3.91	69.25	21 48 46.4	22.9	0.138760	II 26
5	6 14 54.66	68.28	21 48 23.5	23.6	0.139933	II 28
6	6 13 46.38	67.22	21 47 59.9	24.2	0.141189	II 30
7	6 12 39.16	66.07	+ 21 47 35.7	24.8	0.142527	II 32
8	6 11 33.09	64.83	21 47 10.9	25.4	0.143947	II 34
9	6 10 28.26	63.53	21 46 45.5	25.8	0.145445	II 37
10	6 9 24.73	62.15	21 46 19.7	26.1	0.147021	II 39
11	6 8 22.58	60.69	21 45 53.6	26.3	0.148673	II 42
12	6 7 21.89	59.17	+ 21 45 27.3	26.3	0.150399	II 45
13	6 6 22.72		21 45 1.0		0.152198	II 48

Opp. in AR. Dez. 28 Größe = 11.4

(47) AGLAJA 1907-1908.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aber.-Zt.
1907 Dez. 16	7 ^h 10 ^m 6.36	- 51.30	+29° 35' 28.8	+ 20.6	0.349863	18 ^m 36'
17	7 9 15.06	52.27	29 37 39.4	2 7.8	0.349025	18 34
18	7 8 22.79	53.21	29 39 47.2	2 4.9	0.348240	18 32
19	7 7 29.58	54.09	29 41 52.1	2 1.7	0.347509	18 30
20	7 6 35.49	-54.90	29 43 53.8	+1 58.3	0.346833	18 28
21	7 5 40.59	55.68	+29 45 52.1	1 54.8	0.346212	18 26
22	7 4 44.91	56.41	29 47 46.9	1 51.1	0.345647	18 25
23	7 3 48.50	57.07	29 49 38.0	1 47.2	0.345138	18 24
24	7 2 51.43	57.67	29 51 25.2	1 43.2	0.344686	18 23
25	7 1 53.76	-58.22	29 53 8.4	+1 39.0	0.344292	18 22
26	7 0 55.54	58.72	+29 54 47.4	1 34.5	0.343956	18 21
27	6 59 56.82	59.15	29 56 21.9	1 30.0	0.343679	18 20
28	6 58 57.67	59.52	29 57 51.9	1 25.4	0.343461	18 19
29	6 57 58.15	59.83	29 59 17.3	1 20.5	0.343303	18 19
30	6 56 58.32	-60.07	30 0 37.8	+1 15.6	0.343204	18 19
31	6 55 58.25	60.24	+30 1 53.4	1 10.5	0.343166	18 19
1908 Jan. 1	6 54 58.01	60.34	30 3 3.9	1 5.3	0.343189	18 19
2	6 53 57.67	60.39	30 4 9.2	1 0.1	0.343273	18 19
♂ 3	6 52 57.28	60.36	30 5 9.3	0 54.9	0.343417	18 19
4	6 51 56.92	-60.26	30 6 4.2	+0 49.6	0.343623	18 20
5	6 50 56.66	60.09	+30 6 53.8	0 44.2	0.343889	18 20
6	6 49 56.57	59.86	30 7 38.0	0 38.7	0.344214	18 21
7	6 48 56.71	59.55	30 8 16.7	0 33.2	0.344600	18 22
8	6 47 57.16	59.19	30 8 49.9	0 27.8	0.345046	18 23
9	6 46 57.97	58.77	30 9 17.7	+0 22.5	0.345550	18 25
10	6 45 59.20	58.28	+30 9 40.2	0 17.2	0.346112	18 26
11	6 45 0.92	57.72	30 9 57.4	0 11.8	0.346733	18 28
12	6 44 3.20	57.12	30 10 9.2	0 6.6	0.347411	18 29
13	6 43 6.08	56.47	30 10 15.8	+0 1.3	0.348145	18 31
14	6 42 9.61	-55.75	30 10 17.1	-0 3.9	0.348935	18 33
15	6 41 13.86	54.97	+30 10 13.2	0 9.0	0.349780	18 35
16	6 40 18.89	54.15	30 10 4.2	0 14.2	0.350680	18 38
17	6 39 24.74	53.29	30 9 50.0	0 19.2	0.351634	18 40
18	6 38 31.45	52.37	30 9 30.8	0 24.1	0.352640	18 43
19	6 37 39.08	-51.39	30 9 6.7	0 28.9	0.353699	18 46
20	6 36 47.69	50.37	+30 8 37.8	0 33.5	0.354809	18 48
21	6 35 57.32		30 8 4.3		0.355968	18 51

Opp. in AR. 1908 Jan. 3

Größe — 11.7

(288) GLAUKE 1908.

12 ^h Mittl. Zeit	AR.	Dist.	Dekl.	Dist.	Log. Δ	Aberr.-Zt.
1908 Jan. 1	7 ^h 24 ^m 31 ^s .35	56.78	+20° 16' 30.2"	+3 17.0	0.234397	14 ^m 15 ^s
2	7 23 34.57	57.45	20 19 47.2	3 18.5	0.233304	14 13
3	7 22 37.12	58.06	20 23 5.7	3 19.9	0.232282	14 11
4	7 21 39.06	58.60	20 26 25.6	3 21.0	0.231333	14 9
5	7 20 40.46	59.04	20 29 46.6	+3 22.0	0.230456	14 7
6	7 19 41.42	59.42	+20 33 8.6	3 22.7	0.229653	14 6
7	7 18 42.00	59.73	20 36 31.3	3 23.2	0.228925	14 4
8	7 17 42.27	59.95	20 39 54.5	3 23.5	0.228270	14 3
♂ 9	7 16 42.32	60.10	20 43 18.0	3 23.6	0.227691	14 2
10	7 15 42.22	60.19	20 46 41.6	+3 23.5	0.227186	14 1
11	7 14 42.03	60.18	+20 50 5.1	3 23.3	0.226757	14 0
12	7 13 41.85	60.11	20 53 28.4	3 22.8	0.226403	14 0
13	7 12 41.74	59.97	20 56 51.2	3 22.2	0.226124	13 59
14	7 11 41.77	59.76	21 0 13.4	3 21.4	0.225920	13 59
15	7 10 42.01	59.46	21 3 34.8	+3 20.5	0.225791	13 58
16	7 9 42.55	59.09	+21 6 55.3	3 19.3	0.225736	13 58
17	7 8 43.46	58.66	21 10 14.6	3 18.0	0.225756	13 58
18	7 7 44.80	58.14	21 13 32.6	3 16.6	0.225849	13 58
19	7 6 46.66	57.57	21 16 49.2	3 15.0	0.226016	13 59
20	7 5 49.09	56.92	21 20 4.2	+3 13.3	0.226255	13 59
21	7 4 52.17	56.21	+21 23 17.5	3 11.5	0.226566	14 0
22	7 3 55.96	55.42	21 26 29.0	3 9.6	0.226949	14 1
23	7 3 0.54	54.57	21 29 38.6	3 7.5	0.227402	14 1
24	7 2 5.97	53.65	21 32 46.1	3 5.4	0.227924	14 2
25	7 1 12.32	52.67	21 35 51.5	+3 3.1	0.228515	14 4
26	7 0 19.65	51.61	+21 38 54.6	3 0.8	0.229174	14 5
27	6 59 28.04	50.51	21 41 55.4	2 58.4	0.229900	14 6
28	6 58 37.53	49.34	21 44 53.8	2 55.9	0.230692	14 8
29	6 57 48.19	48.11	21 47 49.7	2 53.4	0.231547	14 9
30	6 57 0.08	46.81	21 50 43.1	+2 50.7	0.232466	14 11
31	6 56 13.27	45.48	+21 53 33.8	2 48.1	0.233447	14 13
Febr. 1	6 55 27.79	44.08	21 56 21.9	2 45.4	0.234488	14 15
2	6 54 43.71	42.62	21 59 7.3	2 42.6	0.235588	14 17
3	6 54 1.09	41.13	22 1 49.9	2 39.9	0.236745	14 20
4	6 53 19.96	39.59	22 4 29.8	+2 37.1	0.237958	14 22
5	6 52 40.37	38.00	+22 7 6.9	2 34.2	0.239224	14 25
6	6 52 2.37		22 9 41.1		0.240543	14 27

Opp. in AR. 1908 Jan. 9 Größe = 12.4

(24) THEMIS 1907-1908.

12 ^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
1907 Dez. 18	7 ^h 44 ^m 8.33		+ 22° 25' 16.5		0.269331	15 ^m 27'
19	7 43 31.87	- 36.46	22 27 6.8	+ 1 50.3	0.267692	15 24
20	7 42 54.07	37.80	22 28 59.3	1 52.5	0.266106	15 20
21	7 42 14.97	39.10	22 30 54.0	1 54.7	0.264573	15 17
22	7 41 34.59	40.38	22 32 50.6	1 56.6	0.263095	15 14
23	7 40 52.95	41.64	+ 22 34 48.9	+ 1 58.3	0.261672	15 11
24	7 40 10.11	42.84	22 36 48.8	1 59.9	0.260306	15 8
25	7 39 26.12	43.99	22 38 50.1	2 1.3	0.258998	15 5
26	7 38 41.03	45.09	22 40 52.6	2 2.5	0.257750	15 2
27	7 37 54.86	46.17	22 42 56.2	2 3.6	0.256563	15 0
28	7 37 7.68	47.18	+ 22 45 0.7	1 2 4.5	0.255438	14 58
29	7 36 19.56	48.12	22 47 5.8	2 5.1	0.254376	14 56
30	7 35 30.55	49.01	22 49 11.3	2 5.5	0.253378	14 54
31	7 34 40.68	49.87	22 51 17.0	2 5.7	0.252447	14 52
1908 Jan. 1	7 33 50.03	50.65	22 53 22.7	2 5.7	0.251582	14 50
2	7 32 58.68	51.35	+ 22 55 28.3	+ 1 2 5.6	0.250785	14 48
3	7 32 6.69	51.99	22 57 33.5	2 5.2	0.250056	14 47
4	7 31 14.13	52.56	22 59 38.2	2 4.7	0.249397	14 45
5	7 30 21.06	53.07	23 1 42.1	2 3.9	0.248808	14 44
6	7 29 27.56	53.50	23 3 45.2	2 3.1	0.248289	14 43
7	7 28 33.70	53.86	+ 23 5 47.1	+ 2 1.9	0.247841	14 42
8	7 27 39.55	54.15	23 7 47.6	2 0.5	0.247464	14 41
9	7 26 45.17	54.38	23 9 46.7	1 59.1	0.247159	14 41
10	7 25 50.63	54.54	23 11 44.2	1 57.5	0.246924	14 40
11	7 24 56.01	54.62	23 13 40.0	1 55.8	0.246761	14 40
12	7 24 1.37	54.64	+ 23 15 33.9	+ 1 53.9	0.246669	14 40
13	7 23 6.78	54.59	23 17 25.9	1 52.0	0.246649	14 40
14	7 22 12.31	54.47	23 19 15.8	1 49.9	0.246699	14 40
15	7 21 18.03	54.28	23 21 3.3	1 47.5	0.246820	14 40
16	7 20 24.02	54.01	23 22 48.2	1 44.9	0.247011	14 40
17	7 19 30.33	53.69	+ 23 24 30.6	+ 1 42.4	0.247273	14 41
18	7 18 37.04	53.29	23 26 10.4	1 39.8	0.247604	14 41
19	7 17 44.21	52.83	23 27 47.5	1 37.1	0.248005	14 42
20	7 16 51.88	52.33	23 29 21.8	1 34.3	0.248477	14 43
21	7 16 0.15	51.73	23 30 53.2	1 31.4	0.249016	14 44
22	7 15 9.10	- 51.05	+ 23 32 21.5	+ 1 28.3	0.249620	14 46
23	7 14 18.79	50.31	23 33 47.2	1 25.7	0.250289	14 47

Opp. in AR. 1908 Jan. 10

Größe — 10.1

NACHWEISUNGEN ÜBER DIE KLEINEN PLANETEN (1) – (601).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mitteilungen über die kleinen Planeten sich befinden, sind bei sämtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem *Astronomical Journal* (A. J.), dem *Bulletin Astronomique* (B. A.), den Mitteilungen der Nicolai Hauptsternwarte zu Pulkowo (M. P.), dem *Bulletin de l'Académie Impériale de St. Pétersbourg* (B. P.), den *Publications of the Astronomical Society of the Pacific* (P. P.) die Band- und Seitenzahlen angegeben.

Bei wiederholt veröffentlichten Beobachtungen ist nur die letzte Publikation angeführt.

A. Beobachtungen.

Ein Sternchen (*) bedeutet genäherte Angaben der betreffenden Planetenörter.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
1 Ceres . . .	Arcetri . . .	1905 Sept. 9, 13, 22, Okt. 4, Okt. 8, 19, 27, 28, Nov. 12, Nov. 14, 17	A. N. 171, 241
	Washington . . .	Aug. 21, 26, 29	A. J. 25, 95
2 Pallas . . .	Arcetri . . .	Aug. 8, 9, 10, 12, 13, Aug. 14, 27	A. N. 171, 241
	Heidelberg . . .	Dez. 17*	170, 131
	Kasan . . .	1904 Juni 7	170, 197
	Washington . . .	Mai 28, Juni 14, 22, Juli 26, Juli 30, Aug. 6	A. J. 25, 58
		Helligkeitsbeobachtungen	A. N. 171, 186
3 Juno . . .	Genf . . .	1906 März 7	172, 89
	Heidelberg . . .	Febr. 16*	170, 322
	Philadelphia . . .	Febr. 9, 16	A. J. 25, 90
	Poughkeepsie . . .	Febr. 5, 6	25, 92
	Washington . . .	1904 Aug. 3, 5, 11, 12, 15, Aug. 16	25, 58
4 Vesta . . .	Arcetri . . .	1905 Mai 2, 10, Juni 1, 2	A. N. 171, 241
	Kasan . . .	1904 März 8, 24	170, 197
	Kasan . . .	1905 Febr. 22, März 1, April 15	170, 199
	Nizza . . .	April 6, 7, 13, 15, 17, 18, April 21, 25, 28, Mai 1, 11, 15, 18, 22	B. A. 23, 191
6 Hebe . . .	Pulkowa . . .	1903 April 15	B. P. 20, 196
7 Iris . . .	Heidelberg . . .	1906 Juli 16*	A. N. 172, 61
	Kiel . . .	Ephemeridenkorrektur	172, 95
		Helligkeitsbeobachtungen	170, 205
9 Metis . . .	Heidelberg . . .	1905 Nov. 25*	170, 81
	Philadelphia . . .	Dez. 27, 1906 Jan. 5	A. J. 25, 90

554 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation	
10 Hygiea . . .	Heidelberg . . .	1906 Juli 30*, Aug. 8*, 13*	A. N. 172. 18, 17 16	
	Kasan . . .	1905 April 15, 21	» » 172. 21	
11 Parthenope . . .	Düsseldorf . . .	» Nov. 24, 28, 30	» » 171. 113	
	Heidelberg . . .	» Nov. 3*, 6*, 21*, 29*	169. 32, 33 170. 19, 22	
13 Egeria . . .	Heidelberg . . .	1906 März 20*, 29*	171. 1 . . .	
	Jena . . .	1904 Nov. 25, 28	» » 170. 187	
	Washington . . .	» Nov. 28, 30	A. J. 25. 12	
	Williams Bay . . .	» Nov. 14	A. N. 172. 121	
15 Eunomia . . .	Washington . . .	1905 Jan. 28, Febr. 3, 4, 7, Febr. 10, 14	A. J. 25. 13	
		Heidelberg . . .	» Nov. 3*, 6*, 21*	A. N. 169. 32, 33 172. 16
16 Psyche . . .	Marseille . . .	» Dez. 17, 19, 20, 21, 22, Dez. 29, 30, 31	B. A. 23. 195	
	Algier . . .	1906 Jan. 27, Febr. 2, 8, 14, 19	A. N. 172. 245 B. A. 23. 337	
17 Thetis . . .	Heidelberg . . .	» Jan. 20*	A. N. 172. 245	
	Jena . . .	1904 Okt. 16	172. 18	
	Jena . . .	1906 Ephemeridenkorrektur	172. 211	
	Kasan . . .	1904 Okt. 19, Nov. 1	» » 170. 190	
	Marseille . . .	» Nov. 3, 4, 8	B. A. 23. 287	
	Philadelphia . . .	1906 Febr. 16, 23	A. J. 25. 97	
	19 Fortuna . . .	Algier . . .	1905 Juni 30, Juli 1, 4	A. N. 172. 245 B. A. 23. 339
		Düsseldorf . . .	» Juli 8	A. N. 171. 113
Genf . . .		» Juni 20, 21, 22, 23	» » 172. 136	
Kasan . . .		1904 März 8, 9, 15, 20, 25, 26, April 3, 6, 8	172. 17	
20 Massalia . . .	Marseille . . .	1905 Juni 15, 20, 21, 23, 24, 26, Juni 28, 29, Juli 1, 3, 4, 5, Juli 6, 7, 8, 10, 11, 12, 13, 15	B. A. 23. 146	
	Utrecht . . .	» Juli 4, 8	A. N. 171. 198	
	Heidelberg . . .	1906 Jan. 15*, 20*	» » 170. 224	
21 Lutetia . . .	Krakau . . .	» Ephemeridenkorrektur	» » 170. 227	
	Washington . . .	1905 Sept. 21, 23, 26, 27	A. J. 25. 97	
24 Themis . . .	Arceetri . . .	» Aug. 10, 22	A. N. 171. 147	
	Pulkowa . . .	1903 März 14, 15, 18, 29	B. P. 20. 104	
26 Proserpina . . .	Algier . . .	1905 April 29, Mai 5, 6, 9, 10, Mai 11, 12, 13, 15, 19, 23	A. N. 171. 173 B. A. 23. 167	
	Düsseldorf . . .	» Mai 3	A. N. 171. 113	
	Marseille . . .	» Mai 8, 9, 11, 18, 20, 24	B. A. 23. 147	
	Pulkowa . . .	1903 Dez. 20	B. P. 20. 104	

NACHWEISUNGEN ÜBER DIE KL. PLANETEN. 555

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
26 Proserpina	Utrecht	1905 April 24, 26, Mai 3, 8, 9, Mai 10	A. N. 171, 193
28 Bellona	Algier	› März 6, 8, 9, 10, 11, 13, März 14, 16, 18, 23, 24, März 25, 27, April 1	› › 169, 411
	Cincinnati	› März 30, 31	› › 171, 201
	Düsseldorf	› März 1, 5, 12, 13	› › 171, 113
	Düsseldorf	1906 Ephemeridenkorrektion	› › 171, 349
	Heidelberg	› Juni 20*, 27*	› › 171, 351, 172, 31
	Kasan	1905 März 1, 2, 13, 14, 23, April 5	› › 170, 199
	Mailand	› März 30	› › 170, 303
	Pulkowa	1903 Nov. 27	B. P. 20, 197
	Pulkowa	1905 April 4, 9	M. P. 1, 107
	Toulouse	› März 28, April 7, 8, 13	B. A. 23, 59
	Utrecht	› März 2, 12, 13, 14, 15, 20, März 21, 22, 26, April 8	A. N. 171, 193
29 Amphitrite	Marseille	› Nov. 27, 29, 30, Dez. 1, 5, Dez. 6, 7, 8, 14, 15, 17, Dez. 19, 20, 21, 22, 23, Dez. 29, 30, 31	B. A. 23, 193
	Pulkowa	1903 März 18	B. P. 20, 196
30 Urania	Washington	1905 Aug. 3, 18, 21	A. J. 25, 95
35 Lenkothea	Heidelberg	› Dez. 27*	A. N. 170, 148
37 Fides	Algier	› Mai 10, 11, 12, 13, 23	› › 172, 243, B. A. 23, 338
	Düsseldorf	› Mai 22, 23	A. N. 171, 113
	Marseille	› Mai 20, 24, 26	B. A. 23, 147
	Utrecht	› Mai 3, 8, 9, 22, 23	A. N. 171, 195
38 Leda	Heidelberg	1906 Jan. 24*, Febr. 22*	› › 170, 243, 353
39 Lactitia	Heidelberg	› Jan. 1*	› › 170, 148
40 Harmonia	Jena	1904 Mai 20	› › 170, 189
42 Isis	Algier	1905 März 24, 25, 28, 29, 30, April 3, 4, 6, 7	› › 171, 171, B. A. 23, 188
	Kasan	› März 3, 5, 14, 24	A. N. 170, 199
	Mailand	› März 30	› › 170, 303
	Pulkowa	1903 Dez. 12	B. P. 20, 198
	Utrecht	1905 März 26, 31, April 3, 6, April 8	A. N. 171, 193
	Washington	› März 28, 30, April 7	A. J. 25, 13
43 Ariadne	Krakau	1906 April 5*	A. N. 171, 25
44 Nyssa	Heidelberg	› Mai 23*	› › 171, 235
	Washington	1904 Dez. 13, 16	A. J. 25, 12

556 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
45 Eugenia . . .	Heidelberg . . .	1906 März 25 ^a , 29 ^a , April 12 ^a . . .	A. N. 171, 133
46 Hestia . . .	Algier . . .	1905 Juli 1, 4, 5	172, 245
	Genf	Juni 22, 23, 28	B. A. 23, 339
	Marseille	Juli 1, 3, 4, 5, 6, 7, 8,	A. N. 173, 133
		Juli 10, 11, 12, 13, 18, 19,	
		Juli 20, 21, 22, 24	B. A. 23, 148
	Utrecht	Juli 4, 6, 7, 8, 20, 21	A. N. 171, 106
47 Aglaja . . .	Algier	Mai 29, 30, Juni 8, 10, 13	172, 245
			B. A. 23, 339
	Genf	Mai 25, 27, 28, 30	A. N. 170, 137
	Marseille	Mai 29, 30, Juni 3, 6, 7, 8	B. A. 23, 148
	Rom	Juni 5	A. N. 172, 103
48 Doris . . .	Arcturi	Mai 29, 30, 31, Juni 1, 2,	
		Juni 8	171, 245
	Heidelberg	1906 Juli 16 ^a	172, 61
	Kasan	1905 Mai 10, 11, 13, 24, 27	170, 211
	Pulkowa	Mai 19, 25	M. P. 1, 157
50 Virginia . . .	Heidelberg . . .	1906 Jan. 22 ^a	A. N. 170, 245
51 Nemausa . . .	Heidelberg . . .	» Juni 20 ^a , 21 ^a	171, 331
	Washington . . .	1905 Jan. 27, 28, 30, Febr. 3	A. J. 25, 15
52 Europa . . .	Heidelberg . . .	» Nov. 1 ^a	A. N. 169, 329
53 Kalypso . . .	Cincinnati . . .	» Mai 1, 3	171, 211
	Heidelberg . . .	1906 Juli 16 ^a	172, 62
	Marseille	1905 Mai 11	B. A. 23, 148
	Pulkowa	1903 Nov. 27, Dez. 11, 12, 14,	
		Dez. 15	B. P. 20, 198
	Washington . . .	1905 April 24, Mai 1, 7	A. J. 25, 14
56 Melete . . .	Heidelberg . . .	1906 Febr. 16 ^a	A. N. 170, 322
57 Mnemosyne . . .	Düsseldorf . . .	» Ephemeridenkorrektur	170, 245
	Jena	1904 Okt. 14, 16	170, 189
	Kasan	Okt. 12, 16, Nov. 1, 8	170, 199
	Marseille	Nov. 2, 3, 8, 9, 10, 11	B. A. 23, 237
58 Concordia . . .	Arcturi	1905 Juni 28, 29, Juli 1	A. N. 171, 249
	Düsseldorf	Mai 29, 30	171, 113
	Düsseldorf	1906 Ephemeridenkorrektur	172, 257
	Heidelberg ¹⁾ . . .	1905 Juni 22	170, 213
	Marseille	Juni 13	B. A. 23, 148
	Rom	Juni 2, 5	A. N. 172, 103
	Utrecht	Mai 29, 30	171, 106
	Washington . . .	Juni 25	A. J. 25, 14
59 Elpis	Heidelberg . . .	Okt. 26 ^a , Nov. 1 ^a	A. N. 169, 319
65 Cybele . . .	Algier	Febr. 1, 2, 3, 8, 14, 15	
		Febr. 16	B. A. 22, 414
	Algier	Febr. 23, 28, März 1, 2	A. N. 169, 411

¹⁾ Astronomisches Institut.

NACHWEISUNGEN ÜBER DIE KL. PLANETEN. 557

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation	
65 Cybele . . .	Düsseldorf . . .	1905 Febr. 8	A. N. 171, 113	
	Heidelberg . . .	1906 April 16*	» » 171, 64	
	Krakau	» Ephemeridenkorrektion	» » 171, 89	
	Marseille	» April 23, 24, 27, 28	B. A. 23, 310	
	Padua	1905 Febr. 6, 7	A. N. 170, 301	
	Philadelphia	1906 April 27	A. J. 25, 90	
	Pulkowa	1903 Dez. 15	B. P. 20, 198	
Toulouse	1905 Febr. 24, März 6	B. A. 23, 59		
66 Maja = [1906 UV]	Heidelberg	1906 Aug. 30*, Sept. 17*	A. N. 172, 271, 287	
67 Asia	Heidelberg	» März 27*, 28*, April 25*	» » 171, 29, 30, 90	
	Philadelphia	» April 13	A. J. 25, 90	
68 Leto	Algier	» Jan. 18, 26, 27, 31	A. N. 172, 247, B. A. 23, 336	
	Düsseldorf	1905 Jan. 26	A. N. 171, 113	
	Genf	1906 Jan. 14, 31	» » 172, 89	
	Heidelberg	Jan. 24 ³	» » 170, 243	
	Jena	1904 Okt. 1	» » 170, 189	
	Jena	1906 Ephemeridenkorrektion	» » 170, 211	
	Kasan	1904 Okt. 11, 12, 16	» » 170, 197	
	69 Hesperia	Heidelberg	1905 Sept. 29*, Okt. 25*	169, 300, 318
		Algier	» Febr. 1, 2, 3, 4	» » 169, 409, B. A. 22, 414
	71 Niobe	Düsseldorf	» Jan. 1, 2, 8	A. N. 171, 113
Nizza		Jan. 20, 21	B. A. 23, 29	
Padua		Jan. 31, Febr. 1, 3, 5	A. N. 170, 299	
Pulkowa		1903 Okt. 9, 20, 21, 22, 25, Nov. 8	B. P. 20, 197	
Utrecht		1905 Jan. 25, 28	A. N. 171, 193	
72 Eronia	Heidelberg	1906 Juli 10*, 12*	» » 172, 31, 32	
73 Klytia	Wien	1905 Jan. 12, 15	» » 171, 289	
78 Diana	Algier	Jan. 7, 10, 12, 13, 14, Jan. 19, 20	» » 169, 409, B. A. 22, 413	
	Kasan	1887 Dez. 8, 15, 1888 Jan. 10, Jan. 13	A. N. 169, 379	
	Kasan	1891 Nov. 11, 12	» » 169, 381	
	Kasan	1904 Dez. 20, 27, 1905 Jan. 11, Jan. 12, 18	» » 170, 199	
		Jena	Dez. 27	» » 170, 189
	Marseille	» Dez. 15, 16, 17, 19, 20, Dez. 27, 28	B. A. 23, 236	
		Marseille	1905 Jan. 3, 11, 14	» » 23, 237
	Nizza	Jan. 21	» » 23, 29	
	Nizza	Jan. 13	» » 23, 191	

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikat.
78 Diana . . .	Padua . . .	1904 Dez. 17, 18, 29, 1905 Jan. 12. Jan. 13, 14, 15	A. N. 170. 39 A. J. 25. 43
	Washington . . .	1905 Jan. 4, 15, 16	A. J. 25. 43
79 Eurynome . . .	Arcetri . . .	» Okt. 4, 5, 6, 8	A. N. 171. 245
	Cincinnati . . .	» Sept. 27, 28	» 171. 257
	Heidelberg ¹⁾ . . .	» Sept. 29 ^a	» 169. 200
	Heidelberg ¹⁾ . . .	» Sept. 17, 19	» 171. 355
	Mailand . . .	» Sept. 30, Okt. 3, 5	» 170. 313
	Marseille . . .	» Sept. 11, 12, 19, 20, 25, 27. Okt. 2	B. A. 23. 33
	Poughkeepsie . . .	» Okt. 7, 9, 10, 12, 14	A. J. 25. 92
	Pulkowa . . .	1903 März 15	B. P. 20. 17
80 Sappho . . .	Heidelberg . . .	1905 Sept. 8, 12, 15, 17, 18, 21. Sept. 23, Okt. 7, 10	1905 Sept. 8, 12, 15, 17, 18, 21. Sept. 23, Okt. 7, 10
		1906 Juni 20 ^a	A. N. 171. 397 » 171. 531
		1905 Okt. 19, 27, 28	» 171. 245
82 Alkmene . . .	Düsseldorf . . .	» Okt. 20	» 171. 113
	Marseille . . .	» Okt. 26, 27, 28	B. A. 23. 33
	Utrecht . . .	» Okt. 25, 30, 31	A. N. 171. 107
	Utrecht . . .	» Okt. 25, 30, 31	A. N. 171. 107
84 Klio . . .	Düsseldorf . . .	» Aug. 22, Sept. 5, 23	» 171. 113
	Heidelberg ¹⁾ . . .	» Aug. 22, 24, Sept. 4, 5. Sept. 11, 17	» 171. 355
	Marseille . . .	» Sept. 5, 6, 7, 9, 11, 12. Sept. 14, 19, 20	B. A. 23. 33
	Utrecht . . .	» Aug. 24, Sept. 5, 8, 12, 15. Sept. 17, 23	A. N. 171. 107 » 171. 113
	Wien . . .	» Aug. 10	» 171. 28
	Washington . . .	» Aug. 23, 26, 31	A. J. 25. 95
86 Semele . . .	Heidelberg . . .	1903 Aug. 27	A. N. 170. 95
88 Thisbe — [1906 S.X]	Heidelberg . . .	1906 März 21 ^a	» 171. 11
	Heidelberg . . .	» Jan. 24 ^a , Febr. 21 ^a	» 170. 247 ^a
90 Antiope . . .	Wien . . .	1905 Jan. 2	» 171. 28
	Düsseldorf . . .	» Sept. 23, 24	» 171. 113
92 Undina . . .	Jena . . .	1904 Mai 16, 17, 19	» 170. 18
	Pulkowa . . .	1903 März 21, 25	B. P. 20. 107
	Utrecht . . .	1905 Aug. 24, Sept. 5, 23	A. N. 171. 107
	Cincinnati . . .	» Febr. 28, März 5, 8, 10	» 171. 211
95 Arethusa . . .	Kasan . . .	» März 5, 14, 15, 23	» 170. 107
	Philadelphia . . .	1906 Mai 4, 11, 18, 25	A. J. 25. 91
	Utrecht . . .	1905 März 1, 2, 22, 23, 26	A. N. 171. 107
	Düsseldorf . . .	» Dez. 17, 18, 25, 27, 30	» 171. 113
103 Hera . . .	Heidelberg ¹⁾ . . .	» Dez. 27, 30	» 171. 355
	Heidelberg . . .	1906 Jan. 22 ^a	» 170. 247
	Washington . . .	1904 Nov. 30, Dez. 8	A. J. 25. 12

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104 Klymene . . .	Wien . . .	1905 April 28, 30	A. N. 171, 289
106 Dione	Nizza	> Mai 1. 2, 3	B. A. 23, 17
107 Camilla . . .	Heidelberg . .	1906 Aug. 21 [*]	A. N. 172, 217
108 Heeuba	Pulkowa	1903 Febr. 22	B. P. 20, 195
	Rom	1905 Aug. 7	A. N. 172, 195
110 Lydia	Algier	1906 März 19. 21. 27. April 10. April 11, 21, 25. 26. 27 . .	> > 172, 247; B. A. 23, 337
	Heidelberg . .	1901 Febr. 13	A. N. 170, 93
		1906 März 27 [*]	> > 171, 29
	Marseille	> März 20. 24. 26. 29. 30. 31. April 2, 3	B. A. 23, 307
		> April 11, 12, 13, 14, 19, April 21, 23. 24. 25. 27 . .	
		April 28	> > 23, 310
111 Ate	Heidelberg . .	> Febr. 16 [*] . März 14 [*]	A. N. 170, 322. 171, 9
112 Iphigenia . .	Heidelberg . .	> Jan. 15 [*] , 20 [*]	> > 170, 210, 241
113 Amalthea . . .	Düsseldorf . . .	1905 Aug. 24	> > 171, 115
	Kasan	1904 März 15, 20, 22. 25. 26, April 4. 6, 8	> > 170, 197
115 Thyra	Jena	> Juli 15, 17	> > 170, 189
116 Sirona	Heidelberg . .	1906 März 20 [*] . April 12 [*]	> > 171, 10, 63
	Washington . . .	1904 Dez. 1	A. J. 25, 12
117 Lomia	Düsseldorf . . .	1905 April 6, 8	A. N. 171, 115
	Washington . . .	> März 13, 15, 25, 27	A. J. 25, 13
118 Peitho	Düsseldorf . . .	1906 Ephemeridenkorrektur	A. N. 170, 243
	Philadelphia . .	> Febr. 23	A. J. 25, 90
119 Althaea	Heidelberg . .	> Juni 25 [*]	A. N. 171, 352
120 Laohesis . . .	Düsseldorf . . .	1905 März 26	> > 171, 115
121 Hermione . . .	Algier	> Aug. 2. 4, 5. 9	> > 172, 245. B. A. 23, 340
	Marseille	> Juli 22, 24. 25. 26, 27. 28	> > 23, 148
	Marseille	> Aug. 21	> > 23, 152
	Pulkowa	1903 März 17, 18	B. P. 20, 196
122 Gerda	Algier	1905 April 13	A. N. 171, 171. B. A. 23, 189
	Kasan	> April 11	A. N. 170, 199
	Toulouse	> März 28. April 26, 27	B. A. 23, 60
	Washington . . .	> März 29, 31, April 9. 16. April 19	A. J. 25, 14
126 Velleda	Heidelberg . .	1906 Aug. 22 [*]	A. N. 172, 218
128 Nemesis	Heidelberg . .	> März 27 [*]	> > 171, 29
130 Elektra	Washington . . .	1904 Dez. 1. 8, 12, 18	A. J. 25, 12
136 Austria	Heidelberg . .	1906 Aug. 20 [*] , 21 [*]	A. N. 172, 217

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137 Meliboea . . .	Heidelberg . . .	1906 April 12 [*] , 16 [*]	A. N. 171, 63, 64
	Wien	April 16	» » 171, 77
146 Lucina	Marseille	April 19, 20, 21, 23, 24, 28	B. A. 23, 311
	Pulkowa	Mai 3 [*]	A. N. 171, 237
147 Protogenia . .	Pulkowa	Jan. 23, 30	M. P. I. 107, 118
148 Gallia	Algier	1905 Febr. 8, 15, 16, März 4, 6, März 8, 9, 10, 11, 13, 14	A. N. 169, 411
	Kasau	März 3, 4, 5	» » 170, 199
	Padua	Febr. 10, 11	» » 170, 301
	Philadelphia . .	1906 April 27, Mai 11, 18, 21, Mai 25	A. J. 25, 91
	Pulkowa	» Mai 7 [*]	A. N. 171, 237
	Utrecht	1905 Febr. 11, März 2	» » 171, 193
149 Medusa --- [1906 UG]	Heidelberg . . .	1906 April 21 [*]	» » 171, 89
	Wien	» April 26, Mai 10	» » 171, 143, 2-3
153 Hilda	Heidelberg ¹⁾ . .	1905 Aug. 22, 24	» » 171, 353
	Wien	» Juli 28, 29	» » 171, 289
154 Bertha	Heidelberg . . .	1906 Febr. 21 [*]	» » 170, 353
	Marseille	» März 17, 19, 20	B. A. 23, 37
156 Xanthippe . .	Düsseldorf . . .	1905 Juli 8, 26	A. N. 171, 113
	Heidelberg ¹⁾ . .	» Juli 20, 25, 26, 27, 29	» » 170, 213
	Nizza	» Juli 20, 22, 25, 27, 28	B. A. 23, 25
	Rom	» Juli 9, 10	A. N. 172, 195
	Rom	1906 Ephemeridenkorrektur	» » 172, 287
158 Koronis	Heidelberg . . .	» März 21 [*]	» » 171, 1
	Taunton	» März 22 [*] , 23 [*]	» » 171, 89
	Wien	1905 Jan. 9, 14	» » 171, 289
	Wien	1906 März 30, April 2	» » 171, 45
159 Aemilia	Heidelberg . . .	» Juni 27 [*]	» » 172, 31
162 Laurentia . . .	Heidelberg . . .	1905 Okt. 24 [*] , Nov. 3 [*]	» » 169, 318, 32
163 Erigone	Heidelberg . . .	1906 Juli 16 [*]	» » 172, 62
	Nizza	1905 Mai 1, 2, 3	B. A. 23, 17
	Washington . . .	» April 9, 16, 23, Mai 1	A. J. 25, 14
	Wien	» Mai 2	A. N. 171, 289
164 Eva	Cincinnati . . .	» März 31, April 6	» » 171, 211
	Nizza	» April 13, 15	B. A. 23, 29
167 Urda	Arceetri	» Sept. 22	A. N. 171, 251
	Mt. Hamilton . .	» Okt. 6, 12, 19	P. P. 17, 191
	Wien	» Juli 30, Aug. 31, Sept. 5 Helligkeitsbeobachtungen	A. N. 171, 289 » » 170, 253
169 Zelia	Heidelberg . . .	1905 Sept. 29 [*]	» » 169, 30
171 Ophelia	Heidelberg . . .	1906 Mai 23 [*]	» » 171, 235
172 Baucis	Heidelberg . . .	» Jan. 23 [*] , 24 [*]	» » 170, 242, 243
	Washington . . .	1904 Aug. 16, Sept. 23	A. J. 25, 59

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174 Phaedra . . .	Heidelberg . . .	1906 Aug. 20*, 21*, Sept. 11*, 12*	A. N. 172, 217, 287
175 Andromache . .	Genf . . .	1905 Mai 30	» » 170, 137
	Marseille . . .	» Juni 6, 7	B. A. 23, 148
177 Irma	Heidelberg . . .	» Dez. 25*, 1906 Febr. 20*, Febr. 21*	A. N. 170, 147, 353
	Wien	1906 Jan. 1. 2, 16	» » 170, 179 227
178 Belisana . . .	Heidelberg . . .	» Febr. 22*	» » 170, 354
181 Eucharis = [1906 UD]	Heidelberg . . .	» April 13*	» » 171, 63
	Wien	» April 17, 26, Mai 3, 10, 19	» » 171, 77, 143, 205 237
183 Istria	Heidelberg . . .	» Jan. 24*, Febr. 22*, März 3*	» » 170, 243 353, 354
184 Dejopeja . . .	Heidelberg . . .	» Jan. 15*, 20*	» » 170, 210, 241
185 Eunike	Pulkowa	» Mai 6*	» » 171, 237
186 Celuta	Heidelberg . . .	1905 Dez. 31*	» » 170, 148
187 Lamberta . . .	Heidelberg . . .	1906 Aug. 28*	» » 172, 255
	Toulouse	1905 März 10	B. A. 23, 60
189 Phthia	Heidelberg . . .	» Okt. 25*, Nov. 1*	A. N. 169, 318, 319
190 Ismene	Washington . . .	» April 9, 16, 22	A. J. 25, 14
191 Kolga	Pulkowa	1906 Mai 1*	A. N. 171, 237
192 Nausikaa . . .	Marseille	1905 März 10, 11, 13, April 8	B. A. 22, 492
	Toulouse	» März 10	» » 23, 60
	Washington . . .	» März 2, 5, 10, 13	A. J. 25, 13
196 Philomela . . .	Pulkowa	1906 Febr. 22*, 24*	A. N. 171, 12
197 Arete	Heidelberg . . .	» Mai 29*	» » 171, 271
198 Ampella	Cincinnati . . .	1905 März 10	» » 171, 201
	Nizza	» April 7	B. A. 23, 17
	Pulkowa	1903 Nov. 27, Dez. 11, 12, 14, Dez. 15	B. P. 20, 198
	Washington . . .	1905 März 16, 25, 28	A. J. 25, 13
203 Pompeja	Heidelberg . . .	1906 Aug. 22*	A. N. 172, 218
206 Hersilia	Heidelberg . . .	» Aug. 22*	» » 172, 218
208 Lacrimosa . . .	Heidelberg . . .	» März 4*	» » 170, 371
	Wien	» März 7, 8	» » 170, 371
211 Isolda	Arcetri	1905 Okt. 4, 5, 6, 8	» » 171, 251
	Heidelberg . . .	» Sept. 29*	» » 169, 300
	Wien	» Okt. 7	» » 171, 289
212 Medea	Arcetri	» Okt. 4, 6, 8	» » 171, 251
	Heidelberg . . .	» Sept. 29*	» » 169, 300
	Wien	» Okt. 7	» » 171, 289
213 Lilaea	Heidelberg . . .	» Nov. 3*	» » 169, 320
214 Aschera	Wien	» Febr. 9	» » 171, 289
215 Oenone	Heidelberg . . .	» Nov. 3*, 20 ^c	» » 169, 320, 170, 15

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216 Kleopatra . . .	Arcetri . . .	1905 Juli 31. Aug. 1, 3, 4 . . .	A. N. 170, 195
	Düsseldorf . . .	Juli 30, 31	171, 115
	Marseille . . .	Juli 29, 30	B. A. 23, 149
	Marseille . . .	Aug. 3, 4, 7, 10	23, 152
	Padua	Juli 31, Aug. 1	A. N. 170, 301
	Rom	Aug. 3, 5, 7, 9	172, 195
	Wien	Aug. 1	171, 289
217 Eudora	Heidelberg	Nov. 27 ^a	170, 16
219 Thusnelda . . .	Düsseldorf	Juli 30, Aug. 6	171, 115
224 Oceana	Heidelberg	Sept. 19 ^a , 29 ^a	169, 299, 3 ^b
228 Agathe	Heidelberg	Okt. 20 ^a , 23 ^a	169, 31 ^b
	Rom	Okt. 27	170, 15
	Wien	Nov. 3	171, 289
238 Hypatia	Jena	1904 Sept. 18, 19, 20	170, 189
241 Germania	Düsseldorf	1905 Juli 31, Aug. 6	171, 115
	Heidelberg ¹⁾	Sept. 4, 5	171, 353
	Pulkowa	1903 März 21, 25, 29	B. P. 20, 196
	Utrecht	1905 Aug. 6, 11, 12, 20, 24, Sept. 5	A. N. 171, 195
242 Kriemhild . . .	Heidelberg	1906 Mai 29 ^a	171, 271
243 Ida	Heidelberg	März 20 ^a	171, 10
247 Eukrate	Pulkowa	1903 März 21, 29	B. P. 20, 196
248 Lameia	Wien	1905 Aug. 9	A. N. 171, 291
249 Ilse	Nizza	Jan. 13, 14	B. A. 23, 29
250 Bettina	Arcetri	Mai 10, 29, 30, 31	A. N. 171, 247
	Cincinnati	Mai 23, 24	171, 203
	Heidelberg ¹⁾	Mai 10	170, 213
	Nizza	Mai 8, 31	B. A. 23, 17
	Rom	Mai 2	A. N. 172, 193
	Toulouse	Mai 9, 10, 11, 13	B. A. 23, 6
	Utrecht	Mai 3, 8, 9	A. N. 171, 195
	Wien	April 8, 9, 27	171, 291
253 Mathilde	Heidelberg	1906 Juli 10 ^a , 12 ^a	172, 31, 3 ^b
257 Silesia	Heidelberg	1902 März 5 ^a , 6 ^a	170, 371
	Heidelberg	1905 Okt. 25 ^a , Nov. 1 ^a	169, 318, 319
258 Tyche	Heidelberg	1906 April 12 ^a	171, 63
	Kasan	1904 Sept. 10, 11, 19, 28, Okt. 3, Okt. 9, 11, 12	170, 197
	Jena	Sept. 12, 16, 18	170, 189
	Wien	1906 April 16	171, 77
259 Altheia	Arcetri	1904 Okt. 13 ^a	169, 103
	Heidelberg	Okt. 9 ^a	166, 176
	Heidelberg	1905 Nov. 28 ^a	170, 81
263 Dresda	Wien	Aug. 3, 4, 8, 10, 21, 30, Sept. 5	171, 291

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²⁾ Mit 488; Kreusa bezeichnet.

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270 Anahita . . .	Nizza . . .	1905 Jan. 20	B. A. 23, 29
	Nizza . . .	> Febr. 3, 6, 8. 10	> > 23, 27
	Padua . . .	> Febr. 5, 7, 9, 10, 12	A. N. 170, 299
271 Penthesilea . . .	Pulkowa . . .	1903 Dez. 11, 12	B. P. 20, 198
274 Philagoria . . .	Rom . . .	1905 Juli 28	A. N. 172, 195
275 Sapiaientia = [1906 SA]	Heidelberg . . .	1906 Jan. 15*, 20*	170, 210, 241
	Wien . . .	> Jan. 20, 29, Febr. 12	> > 170, 227, 323
276 Adelheid . . .	Arcetri . . .	1905 Mai 29, 31, Juni 1, 2, 3, 8	> > 171, 247
	Nizza . . .	> Mai 30, 31, Juni 2	B. A. 23, 18
	Washington . . .	> Juni 8	A. J. 25, 14
	Wien . . .	> Mai 10, 11	A. N. 171, 291
277 Elvira . . .	Heidelberg . . .	> Dez. 27*, 30*	> > 170, 147, 148
	Wien . . .	> Dez. 30, 31	> > 171, 291
278 Paulina . . .	Heidelberg . . .	1906 März 20*, 29*	171. 10. 30
279 Thule . . .	Wien . . .	1905 Sept. 5	171, 291
281 Lucretia . . .	Heidelberg . . .	1906 März 21*	171, 10
	Wien . . .	> März 30, April 2	> > 171, 45
286 Ieia . . .	Nizza . . .	1905 Juni 26, 28	B. A. 23, 18
	Wien . . .	> Mai 29, 30	A. N. 171, 291
287 Nephthys . . .	Heidelberg . . .	1906 März 21*	171, 10
288 Glauke . . .	Rom . . .	1905 Aug. 28	172, 195
289 Nenetta . . .	Heidelberg . . .	1906 Mai 23*	> > 171, 236
	Nizza . . .	1905 März 25, 27, 28	B. A. 23, 29
294 Felicia . . .	Heidelberg . . .	1906 Mai 23*	A. N. 171, 236
295 Theresia . . .	Heidelberg . . .	> Jan. 15*, 20*	170, 209, 241
320 Geraldina . . .	Wien . . .	1905 März 29, April 1	171, 291
322 Clarissa . . .	Heidelberg . . .	Okt. 25*	169, 318
323 Josephina . . .	Heidelberg . . .	Sept. 29*	169, 299
304 Olga . . .	Heidelberg . . .	1906 Febr. 22*	170, 354
	Taunton . . .	> Febr. 28*	> > 171, 11
325 Gordonia . . .	Heidelberg . . .	1905 Sept. 28*. Okt. 24*	169, 299, 317
306 Unitas . . .	Pulkowa . . .	1906 Mai 13*	171, 237
327 Nike . . .	Taunton . . .	> Febr. 28*	171, 11
328 Polyxo . . .	Heidelberg . . .	> Aug. 21*	172, 217
311 Claudia . . .	Wien . . .	1905 März 29, 30, April 1, 8, 27,	171, 291
		Mai 8	
313 Chaldaea . . .	Arcetri . . .	Juni 28, 29, Juli 1, 4, 5	171, 243
		Juli 7	171, 243
	Genf . . .	> Juni 28, Juli 3, 7	> > 170, 139
	Heidelberg ¹⁾ . . .	> Juli 7, 8, 26	> > 170, 213
	Rom . . .	Juli 8	172, 195
318 Magdalena . . .	Heidelberg . . .	1906 März 18*	171, 10
322 Phaea . . .	Heidelberg ¹⁾ . . .	1905 Dez. 17, 18	171, 353
	Jena . . .	Ephemeridenkorrektur	170, 15

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324 Bamberga	Marseille	1905 Febr. 27, März 1, 2, 6, 7, 8, März 10, 11, 13, 28, 29, 30, März 31, April 3, 4, 5, 7, 8	B. A. 22, 491
325 Heidelberga	Rom	1906 Ephemeridenkorrektion	A. N. 172, 175
326 Tamara	Heidelberg	» März 20*	» » 171, 10
329 Svea	Wien	1905 Okt. 2, 5	» » 171, 291
331 Etheridgea	Heidelberg	» Dez. 27*	» » 170, 148
332 Siri	Heidelberg	1906 März 21*	» » 171, 10
333 Badenia	Heidelberg	» Febr. 22*	» » 170, 354
	Taunton	» Febr. 28*	» » 171, 11
334 Chicago	Nizza	1905 April 25, Mai 3	B. A. 23, 18
	Pulkowa	1903 Jan. 19	B. P. 20, 195
	Rom	1906 Ephemeridenkorrektion	A. N. 171, 255
	Toulouse	1905 April 13, 26	B. A. 23, 60
335 Roberta	Heidelberg	1906 Jan. 22*	A. N. 170, 241
	Marseille	1904 Nov. 9, 10, 11, 12, 14, 15	B. A. 23, 236
339 Dorothea	Rom	1906 April 25	A. N. 172, 197
341 California	Wien	1905 Okt. 5	» » 171, 291
344 Desiderata	Heidelberg	» Nov. 27*	» » 170, 16
345 Tercidina	Arctri	» Mai 29, 30, 31, Juni 1, 7	» » 171, 243
	Heidelberg ¹⁾	» Mai 30, Juni 3	» » 170, 213
	Marseille	» Mai 29, 30, Juni 2, 3, 6, 7, 8	B. A. 23, 149
	Nizza	» Juni 2	» » 23, 18
	Pulkowa	1903 Dez. 20	B. P. 20, 198
	Utrecht	1905 Mai 10, 29, 30	A. N. 171, 195
	Washington	» Mai 21, 23, 27, 28	A. J. 25, 14
347 Pariana	Heidelberg	» Dez. 25*	A. N. 170, 147
	Rom	1906 Jan. 18	» » 172, 195
348 May	Wien	1905 Mai 10	» » 171, 291
350 Ornamenta	Heidelberg	1906 Mai 13*	» » 171, 206
	Pulkowa	1903 Nov. 27, Dez. 14	B. P. 20, 197
352 Gisela	Heidelberg	1906 Jan. 15*, 20*, Febr. 15*	A. N. 170, 241, 321
355 Gabriella	Wien	1905 Jan. 11, 27	» » 171, 291
356 Liguria	Arctri	» Okt. 5, 6, 7, 8, 19	» » 171, 251
	Cincinnati	» Okt. 4, 5, 7, 12	» » 171, 203
	Mailand	» Okt. 3, 5	» » 170, 305
	Marseille	» Sept. 21, 22, 27, 28, 29, 30, Okt. 2, 17, 18, 19, 21	B. A. 23, 238
358 Apollonia	Rom	» Aug. 6, Sept. 4	A. N. 172, 195
	Wien	» Aug. 4	» » 171, 293
359 Georgia	Heidelberg	1906 Jan. 24*, Febr. 15*	» » 170, 244, 321
360 Carlota	Pulkowa	1903 Jan. 31, Febr. 3, 13, 15, Febr. 22, 26, März 2	B. P. 20, 195
	Rom	1906 Ephemeridenkorrektion	A. N. 172, 287
	Wien	1905 Juni 30	171, 293

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362 Havnia	Padua	1905 Febr. 12	A. N. 170, 301
	Pulkowa	1903 Okt. 20, 21	B. P. 20, 197
	Washington	1905 Jan. 28, 30, Febr. 4, 10	A. J. 25, 13
363 Padua	Heidelberg	» Dez. 25*	A. N. 170, 147
364 Isara	Pulkowa	1903 April 17, 21	B. P. 20, 196
365 Corduba	Heidelberg	1905 Nov. 27*, Dez. 25*	A. N. 170. 81. 147
	Pulkowa	» Dez. 31, 1906 Jan. 4, 21	M. P. 1, 118
	Wien	» Dez. 25, 1906 Jan. 3	A. N. 171, 293
366 Vincentina	Heidelberg	1906 Aug. 22*	» » 172, 218
367 Amicitia	Heidelberg	» März 27*, 28*	» » 171, 29, 30
369 Aëria	Nizza	1905 März 30, April 12, 13, 15	B. A. 23, 30
	Wien	» April 11, 28	A. N. 171, 293
	Rom	1906 Ephemeridenkorrektur	» » 171, 367
371 Bohemia	Pulkowa	1903 Nov. 8, 27	B. P. 20, 197
	Nizza	1905 Febr. 3, 6, 7	B. A. 23, 18
372 Palma	Algier	» Dez. 18, 19, 20, 21, 23, 26. 1906 Jan. 3, 4, 5, 10, 17, 18	A. N. 172, 24- B. A. 23, 336
	Arcetri	1906 Jan. 27, 28, 29	A. N. 171, 255
	Heidelberg ¹⁾	1905 Dez. 18, 25, 26, 27, 31	» » 171, 353
	Jena	» Ephemeridenkorrektur	» » 170, 97
	Marseille	» Dez. 30, 31	B. A. 23, 194
	Philadelphia	» Dez. 26, 27, 1906 Jan. 5	A. J. 25, 90
	Poughkeepsie	1906 Jan. 4	» » 25, 92
	Heidelberg	» Juni 16*	A. N. 171, 335
	Pulkowa	1903 Nov. 27, Dez. 14, 20	B. P. 20, 197
	Rom	1906 Ephemeridenkorrektur	A. N. 171, 335
375 Ursula	Heidelberg	1905 Dez. 31*	» » 170, 148
377 Campania	Heidelberg	1906 Sept. 11*, 12*	» » 172, 287
	Wien	1905 Juni 25	» » 171, 293
	Wien	1906 Ephemeridenkorrektur	» » 172, 61
378 Holmia	Heidelberg	» Febr. 22*	» » 170, 354
379 Huenna	Nizza	1905 Febr. 1, 2, 3	B. A. 23, 18
382 Dodona	Rom	1906 Ephemeridenkorrektur	A. N. 171, 351
	Wien	1905 Febr. 13	» » 171, 293
	Heidelberg	1906 März 20*	» » 171, 1
383 Janina	Nizza	1905 Febr. 7, 8, 10	B. A. 23, 18
	Wien	» Febr. 12	A. N. 171, 293
	Heidelberg	» Sept. 29*	» » 169, 300
384 Burdigala	Heidelberg	» Sept. 29*	» » 169, 300
386 Siegena	Algier	» Mai 30, Juni 8, 11, 15, 16, Juni 22, 23	» » 172, 243, B. A. 23, 339
	Arcetri	» Juni 28, 29, 30, Juli 1	A. N. 171, 249
	Genf	» Mai 25, 27, 28	» » 170, 137

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
386 Siegena . . .	Heidelberg . . .	1906 Aug. 20*, 21*	A. N. 172, 217
	Heidelberg ¹⁾ . . .	1905 Mai 27, 28, 29, 30, Juni 3	170, 213
	Königsberg . . .	1906 Ephemeridenkorrektion	172, 95
	Mailand	1905 Juni 3	170, 305
	Nizza	» Juni 22, 26, 27, 28	B. A. 23, 18
	Rom	» Juni 9	A. N. 172, 193
	Washington . . .	» Mai 27, Juni 8, 14, 18	A. J. 25, 14
387 Aquitania . . .	Jena	1904 Juni 4, 5, 7	A. N. 170, 189
388 Charybdis . . .	Wien	1905 Mai 1	» » 171, 293
393 Lampetia . . .	Heidelberg . . .	1906 Jan. 23*	170, 242
	Pulkowa	1903 Okt. 20, 21	B. P. 20, 197
394 Arduina = [1906 <i>UF</i>]	Heidelberg . . .	1906 April 17*	A. N. 171, 64
	Wien	» April 21, 29, Mai 18, 19	171, 77, 143 237
395 Delia	Heidelberg . . .	1903 Okt. 24*	» » 170, 241
397 Vienna	Heidelberg . . .	1906 Juni 26*	» » 171, 352
399 Persephone . . .	Heidelberg . . .	» März 17*	» » 171, 9
403 Cyane	Heidelberg . . .	» Sept. 18*	» » 172, 288
	Rom	1905 Juli 1	172, 195
405 Thia	Heidelberg . . .	» Dez. 27*	170, 148
406 Erna — [1905 <i>QU</i>]	Wien	» Juli 30, Aug. 1, 3, 5, 8, 10, 21, Aug. 22, 26, 31, Sept. 5, 18, 29	» » 171, 295
	Heidelberg . . .	1906 Juni 20*, 27*	171, 351 172, 31
410 [1896 <i>HI</i>] — [1906 <i>UE</i>]	Heidelberg . . .	» April 13*, 16*	» » 171, 63, 64
	Wien	» April 17, 28, Mai 3, 10, 15, 19	» » 171, 77, 143 237
411 [1896 <i>CJ</i>] = [1906 <i>SQ</i>]	Heidelberg . . .	» Jan. 24*, Febr. 15*	» » 170, 243, 321
	Wien	» Febr. 17	170, 323
412 Elisabetha . . .	Pulkowa	» April 10*	171, 237
415 Palatia	Washington . . .	1905 Jan. 2, 4, 8, 14, 15, 16, 20	A. J. 25, 12
417 Suevia	Heidelberg . . .	1906 Juli 12*	A. N. 172, 32
	Wien	1905 April 6, 10	» » 171, 295
	Wien	1906 Ephemeridenkorrektion	» » 172, 61
418 Alemannia . . .	Heidelberg . . .	1905 Dez. 17*, 27*	170, 131, 147
419 Aurelia	Cincinnati . . .	Nov. 22, 25	171, 203
	Heidelberg . . .	Nov. 3*, 20*, 29*	169, 320 170, 15, 82
	Heidelberg ¹⁾ . . .	» Dez. 18	» » 171, 353
	Jena	1904 Juni 13, 14, 16, 18	» » 170, 189
	Königsberg . . .	1905 Ephemeridenkorrektion	» » 170, 15
	Pulkowa	Nov. 30	M. P. I. 107

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
420 Bertholda . . .	Pulkowa . . .	1903 Nov. 8	B. P. 20, 197
423 Diotima . . .	Pulkowa . . .	Jan. 12, 18	» 20, 195
	Rom	1905 Juni 28, Juli 1, 6	A. N. 172, 193
424 Gratia . . .	Heidelberg . . .	» Dez. 17 ^a	» 170, 132
425 Cornelia . . .	Heidelberg . . .	» Okt. 25 ^a	» 169, 318
429 [1897 DL] - [1905 H.1]	Heidelberg . . .	» Sept. 22	» 170, 93
	Wien	» Sept. 28, Okt. 2, 18, 28	» 171, 293
432 Pythia . . .	Genf	1906 März 17, 18	» 172, 89
	Pulkowa	1904 Nov. 18	M. P. I. 107
433 Eros	Areetri	1905 Juli 26, 27, 28, 30, Aug. 3, 4, Aug. 8, 9, 10, 22, 25	A. N. 170, 271
	Cincinnati	Juli 24, 25, 27, 31	» 171, 203
	Heidelberg ¹⁾	Juli 25, 29, Aug. 2, 3, 8, 19, 22	» 170, 215
	Marseille	Juli 24, 25, 26, 27, 28, 29	B. A. 23, 149
	Rom	Juni 12, Juli 5, Aug. 4	A. N. 172, 193
	Utrecht	» Juli 26, 29, Aug. 6, 10	» 171, 195
434 Hungaria . . .	Heidelberg . . .	1906 Juli 29 ^a	» 172, 109
	Königsberg	» Ephemeridenkorrektion	» 172, 95
435 Ella	Wien	1905 Mai 31	» 171, 293
440 Theodora . . .	Heidelberg . . .	» Dez. 25 ^a	» 170, 147
441 [1898 E1] Wien	Heidelberg . . .	1906 Juli 16 ^a	» 172, 62
	Wien	Juli 19	» 172, 61
442 Eichsfeldia . .	Heidelberg . . .	Jan. 15 ^a , 20 ^b	» 170, 210, 241
	Pulkowa	Jan. 20	M. P. I. 118
443 Photographica .	Heidelberg . . .	» April 16 ^a , Mai 29 ^a	A. N. 171, 64, 271
	Rom	» April 23, 25	» 172, 197
444 Gypsis	Areetri	1905 Sept. 9, 11, 12, 13, 16, 22, Okt. 4, 5, 6, 7	» 171, 251.
			B. A. 23, 16
	Heidelberg ¹⁾	Sept. 5, 11, 17, 19, 22, 23	A. N. 171, 353
	Marseille	» Aug. 30, Sept. 1	B. A. 23, 152
	Marseille	Sept. 5, 6, 7, 19, 20, 21, 22, Sept. 25, 29, 30, Okt. 5, 6, 17, Okt. 18, 19, 21, 26, 27, 28, 31	» 23, 238
	Utrecht	Sept. 18, 21, 22, 23, Okt. 31	A. N. 171, 197
		Helligkeitsbeobachtungen	169, 283, 171, 187
	Washington	1905 Sept. 7, 9, 14	A. J. 25, 95
445 Edna	Heidelberg . . .	» Nov. 28 ^a	A. N. 170, 82
446 Aeternitas . . .	Marseille	1904 Nov. 30, Dez. 1, 8, 13, 15	B. A. 23, 237
447 Valentine . . .	Areetri	1906 Jan. 27, 28, 29	A. N. 171, 255
	Heidelberg . . .	» Jan. 24 ^a	» 170, 245
	Rom	1905 Dez. 23	» 172, 195
	Wien	» Dez. 31, 1906 Jan. 2	» 171, 293

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568 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
454 Mathesis . . .	Rom . . .	1905 Juli 5	A. N. 172, 193
455 Bruchsalia . . .	Arcetri . . .	» Okt. 8, 19	» » 171, 251
	Düsseldorf . . .	» Okt. 20	» » 171, 115
	Marseille . . .	» Sept. 27, Okt. 2, 5, 6, 17, 18, Okt. 19, 21, 26, 27, 28, 31	B. A. 23, 239
	Nizza . . .	» Okt. 27	» » 23, 25
	Poughkeepsie . . .	» Okt. 28, 30, 31, Nov. 1, 2	A. J. 25, 92
	Rom . . .	» Okt. 15	A. N. 172, 195
	Washington . . .	» Okt. 3, 6	A. J. 25, 95
456 Abnoba . . .	Rom . . .	» Juli 21	A. N. 172, 195
	Wien . . .	» Juli 29, 30	» » 171, 295
458 Hercynia . . .	Wien . . .	» Sept. 6	» » 171, 295
460 Scania . . .	Heidelberg . . .	» Dez. 25*	» » 170, 147
462 Eriphyla . . .	Heidelberg . . .	» Okt. 24*	» » 169, 318
470 Kilia . . .	Arcetri . . .	» Juni 2, 3, 8, 22	» » 171, 247
	Genf . . .	» Juni 2	» » 170, 137
	Heidelberg ¹⁾ . . .	» Juni 22	» » 170, 213
	Nizza . . .	» Juli 4, 6, 8	B. A. 23, 25
	Rom . . .	» Juni 3	A. N. 172, 193
	Washington . . .	» Juni 14, 18, 25	A. J. 25, 14
471 Papagena . . .	Düsseldorf . . .	» April 6, Mai 9, 29	A. N. 171, 115
	Heidelberg ¹⁾ . . .	» Mai 23, 25, 26, 27, 28, 29, 30	» » 170, 213
	Nizza . . .	» Mai 25, 30, 31	B. A. 23, 19
	Toulouse . . .	» Mai 24, 27	» » 23, 60
	Wien . . .	» April 8, 9	A. N. 171, 295
477 Italia = [1905 RT]	Heidelberg . . .	» Okt. 26*, Nov. 1	» » 169, 319, 170, 93
	Rom . . .	» Nov. 4, 16	» » 170, 15
	Wien . . .	» Nov. 3, 23, Dez. 2, 19, 31, 1906 Jan. 14, 15	» » 171, 295
478 Tergeste . . .	Arcetri . . .	» Juli 1, 4, 5, 6, 7	» » 171, 249
	Heidelberg ¹⁾ . . .	» Juli 8	» » 170, 213
	Rom . . .	» Juni 30, Juli 1, 6	» » 172, 193
480 Hansa = [1905 QJ]	Heidelberg . . .	1906 Juli 29*	» » 172, 109
	Wien . . .	1905 Mai 10, 28, Juni 4	» » 171, 295
481 Emita . . .	Arcetri . . .	» Dez. 17, 18, 21	» » 171, 253
	Düsseldorf . . .	» Dez. 17, 26	» » 171, 115
	Heidelberg . . .	» Nov. 3*, 20*	» » 169, 320, 170, 15
	Rom . . .	» Dez. 17, 18	» » 172, 195
	Utrecht . . .	» Dez. 26, 27	» » 171, 197
	Wien . . .	» Dez. 12, 17	» » 171, 295
482 Petrina . . .	Heidelberg . . .	» Nov. 28*	» » 170, 82

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
483 Seppina . . .	Heidelberg . . .	1905 Okt. 25*	A. N. 169, 318
484 Pittsburghia . . .	Heidelberg . . .	1906 März 4*	» » 170, 371
	Wien	» März 7, 8	» » 170, 371
485 Genua	Jena	» Ephemeridenkorrektion	» » 170, 391
487 Venetia	Nizza	1905 April 7	B. A. 23, 19
	Nizza	» März 23, 25, 28	» » 23, 30
	Pulkowa	1903 Dez. 12, 14	B. P. 20, 198
	Rom	1906 Ephemeridenkorrektion	A. N. 171, 335
	Washington	1905 März 28, 31, April 7	A. J. 25, 14
488 Kreusa = [1905 SF]	Heidelberg	» Dez. 27*	A. N. 170, 148
	Rom	1906 Jan. 0, 2, 7, 9, 12, 14, 15	» » 170, 211, 227
	Rom	» Jan. 25, 27, Febr. 17, März 14	» » 170, 355, 171, 27
	Taunton	1905 Dez. 5*, 1906 Jan. 19*, 24*	» » 170, 114, 323
	Wien	1906 Jan. 1, 3, 15, 16, 28, Febr. 12	» » 170, 179, 227, 323
	Wien	» Febr. 27, März 8	» » 170, 371
	491 Carina	Heidelberg	» Mai 29* . . . . .	» » 171, 272
494 Virtus	Nizza	1905 April 12, 13, 15	B. A. 23, 30
	Wien	» März 30, April 9	A. N. 171, 295
500 Selinur	Rom	» Juli 12, 23, 27	» » 172, 195
	Wien	» Juli 27, 28	» » 171, 295
504 Cora	Heidelberg	» Mai 13*	» » 171, 206
	Rom	» Ephemeridenkorrektion	» » 171, 237
505 Cava	Wien	» April 8, 9	» » 171, 295
506 [1903 LN]	Heidelberg	1906 Sept. 17*	» » 172, 287
508 [1903 LQ]	Heidelberg	1905 Okt. 23*, 24*	» » 169, 317
509 Iolanda = [1905 RK]	Heidelberg	» Okt. 25*, Nov. 1*	» » 169, 318, 319
	Heidelberg	» Okt. 23	» » 170, 93
	Wien	» Okt. 28, Nov. 17, Dez. 1, 12, Dez. 19, 31, 1906 Jan. 14, 28	» » 171, 295
	Alger	» Nov. 4, 6, 7, 23	» » 172, 245.
511 Davida	Arcetri	» Okt. 19, 27, 28, Nov. 12, 14, 17	B. A. 23, 340
	Cincinnati	» Okt. 19, 27, 28, Nov. 12, 14, 17	A. N. 171, 251
	Düsseldorf	» Nov. 10, 11, 14	» » 171, 203
	Heidelberg	» Okt. 20	» » 171, 115
	Jena	» Okt. 24*	» » 169, 318
	Marseille	» Ephemeridenkorrektion	» » 169, 303
	Marseille	» Nov. 27, 29, 30, Dez. 1, 6, Dez. 13, 14, 15, 17, 19, 20, Dez. 21, 22, 30	B. A. 23, 194
	Marseille	» Okt. 21, 26, 27, 28, 31	» » 23, 239
	Nizza	» Okt. 21. 26. Nov. 17	23, 25

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511 Davida . . .	Poughkeepsie . . .	1905 Okt. 28. 30, 31, Nov. 2 . . .	A. J. 25. 92
	Rom . . .	Okt. 19. 21	A. N. 172. 195
	Utrecht . . .	Okt. 30. 31. Nov. 1. 3. 6. 16 . . .	171. 197
514 Armida . . .	Heidelberg . . .	1906 Febr. 16 ^a	170. 322
516 Amherstia . . .	Arcetri . . .	März 3. 4. 5. 6. 7. 30. 31. . . .	
		April 1. 2	171. 255
	Düsseldorf . . .	März 17. 19. 21. 26. 28	171. 119
	Heidelberg . . .	März 18 ^a	171. 9
	Rom . . .	Febr. 28. März 4	172. 197
517 [1903 III] . . .	Wien . . .	1905 Febr. 9. 14	171. 295
520 Franziska . . .	Heidelberg . . .	1906 April 16 ^a	171. 64
521 Brixia . . .	Nizza . . .	1905 Mai 25. 28. 30	B. A. 23. 30
	Rom . . .	Ephemeridenkorrektion	A. N. 171. 237
	Wien . . .	März 11. 30. 31. April 9	171. 297
522 Helga = [1902 KN]	Heidelberg . . .	1901 Aug. 23	170. 93
	Heidelberg . . .	1902 Nov. 20	169. 399
524 Fidelio . . .	Heidelberg . . .	1906 Aug. 20 ^a . Sept. 11 ^a . 12 ^a	172. 217. 227
526 Jena . . .	Heidelberg . . .	1904 März 18	170. 387
	Heidelberg . . .	1906 Aug. 22 ^a	172. 218
528 Rezia . . .	Heidelberg . . .	1901 Nov. 3 ^a . 4 ^a	171. 190
532 Herkulina . . .	Arcetri . . .	1905 Juli 11. 12. 26. 27. 30.	
		Aug. 1. 3. 4. 8. 9. 10. 12.	
		Aug. 22. 25. Sept. 9. 16. 22	171. 249
	Jena . . .	1904 Juni 4. 5. 7. 13. 14. 16.	
		Juni 18. 30. Juli 9. 15.	
		Juli 17. 18	170. 189
	Marseille . . .	1905 Juli 24. 25. 26. 27	B. A. 23. 149
	Marseille . . .	Aug. 10. Sept. 1	23. 152
	Nizza . . .	Juli 27. 29. Aug. 1	23. 25
	Rom . . .	Aug. 24	A. N. 172. 193
537 [1904 OG] . . .	Heidelberg . . .	1902 Febr. 24. März 2	170. 93
	Heidelberg . . .	1905 Okt. 26 ^a . Nov. 1 ^a	169. 319
539 Pamina . . .	Heidelberg . . .	1906 Jan. 22 ^a	170. 242
542 Susanna . . .	Heidelberg . . .	1894 Aug. 28 ^a	171. 190
	Heidelberg . . .	1906 Jan. 1 ^a	170. 148
543 Charlotte . . .	Heidelberg . . .	Jan. 20 ^a	170. 242
544 Jetta . . .	Heidelberg . . .	Jan. 24 ^a . Febr. 15 ^a	170. 243. 321
545 Messalina . . .	Heidelberg . . .	1901 Jan. 18 ^a	171. 192
550 Senta . . .	Heidelberg . . .	1906 Jan. 24 ^a	170. 244
554 Peraga . . .	Algier . . .	1905 Jan. 12. 13. 14	B. A. 23. 414
			A. N. 169. 409
	Düsseldorf . . .	Jan. 13. 14. 15. 23. 26.	
		Febr. 3. 8. 9. 28. März 1. 8	171. 115
Heidelberg . . .	1900 Sept. 30	169. 399. 400	

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554 Peraga . . .	Marseille . . .	1905 Febr. 3, 4, 6, 7, 10, 14, 15. März 1, 2, 6, 7, 8, 10, 11, 13	B. A. 22, 491 23, 239
	Marseille . . .	Jan. 13, 14, 18, 19, 28, 30, 31	A. N. 170, 301
	Padua . . .	Febr. 24, März 5, 6 . . .	A. J. 25, 13
	Washington . . .	Febr. 10, 14, 15, 17, 18. Febr. 24, 26	A. N. 171, 123
	Washington . . .	1906 Ephemeridenkorrektur . . .	A. N. 171, 297
	Wien . . .	1905 Jan. 12, 16, 23, Febr. 10, März 9, 12, 29, April 9 . . .	171, 297
555 Norma . . .	Wien	Febr. 14	171, 297
556 Phyllis . . .	Wien	Jan. 12, 16, 27, Febr. 14, März 9, 11, 29, April 9 . . .	171, 297
		März 29, 31, April 4, 9, 23, April 30, Mai 10, 27 . . .	171, 297
558 Carmen . . .	Wien	März 11, April 1, 4, 9, 20, 25, Mai 8, 28, 31, Juni 21 . . .	171, 297
559 Nanon . . .	Wien	März 30, 31, April 4, 9, 24, April 30, Mai 5	171, 299
560 Delila . . .	Wien	März 30, 31, April 6, 8, 9, April 11, 30, Mai 1	171, 299
		April 8, 9, 24, 28, Mai 2, Mai 6, 10, 30, Juni 4	171, 299
561 Ingwelle . . .	Wien	April 14, 25, 30, Mai 6, 28, Mai 30, Juni 25, 27, 29 . . .	171, 299
		Mai 27, 30, Juni 2, 5, 23, Juni 26, 29	171, 299
562 Salome . . .	Wien	Mai 27, 30, Juni 2, 5, 12, Juni 25, 26	171, 299
		Mai 29	170, 93
563 Suleika . . .	Wien	Juni 4, 8	172, 193
		Juni 2, 5, 12, 25, 29	171, 301
564 Duda . . .	Wien	Juni 3, 5, 12, 23, 25, 29 . . .	171, 301
565 Marbachia . . .	Wien	Dez. 1*	169, 363
		1891 Juli 30, 31, Aug. 3, 5, 7, Aug. 9, 21, 22, 28, Sept. 5, Sept. 18, 30, Okt. 19	171, 301
566 Stereokopia . . .	Wien	Juli 27, 28, 30, Aug. 1, 4, Aug. 8, 10, 22, 26, 31, Sept. 5, 18, 29, Okt. 27 . . .	171, 301
		Aug. 21	170, 93
567 Eleutheria . . .	Heidelberg . . .	Aug. 3, 4, 26, 30, Sept. 5, Sept. 18, 19, 28, Okt. 19 . . .	171, 303
		Okt. 24*	169, 317
568 Chernskia . . .	Heidelberg . . .	Sept. 5	170, 93
		Wien	Sept. 19, 28, Okt. 2, 22, Nov. 3
569 Misa . . .	Heidelberg . . .	Sept. 19, 28, Okt. 2, 22, Nov. 3	171, 303
		Heidelberg . . .	
570 [1905 QX] . . .	Wien	Sept. 19, 28, Okt. 2, 22, Nov. 3	
		Wien	
571 [1905 QZ] . . .	Heidelberg . . .	Sept. 19, 28, Okt. 2, 22, Nov. 3	
		Wien	

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572 [1905 RB]	Heidelberg	1905 Sept. 29*	A. N. 169, 300
	Heidelberg	» Sept. 19, Okt. 25	» » 170, 93
	Wien	» Sept. 30, Okt. 5, 7, 19, Dez. 18, 19	» » 171, 303
573 [1905 RC]	Heidelberg	» Sept. 28*, Okt. 24*	» » 169, 299, 317
	Heidelberg	» Sept. 19	» » 170, 93
	Wien	» Sept. 28, Okt. 3, 22, Nov. 2, Nov. 25	» » 171, 303
574 [1905 RD]	Heidelberg	» Sept. 28*	» » 169, 299
	Heidelberg	» Sept. 19	» » 170, 93
	Wien	» Sept. 30, Okt. 3, 4, 29, Nov. 3, 25	» » 171, 303
575 [1905 RE]	Heidelberg	» Sept. 28*	» » 169, 299
	Heidelberg	» Sept. 19	» » 170, 93
	Wien	» Sept. 30, Okt. 4, 28, Nov. 2, Nov. 25	» » 171, 303
576 [1905 RF]	Heidelberg	» Sept. 22	» » 170, 93
	Rom	» Sept. 28	» » 169, 319
	Wien	» Sept. 28, Okt. 2, 17, 28, Dez. 17	» » 171, 303
577 [1905 RH]	Heidelberg	» Okt. 20*	» » 169, 317
	Heidelberg	» Okt. 23	» » 170, 93
	Wien	» Okt. 30, Nov. 3, Dez. 2, 18, Dez. 19, 31, 1906 Jan. 15	» » 171, 305
578 [1905 RZ]	Heidelberg	» Nov. 1, 25, 1906 Jan. 20	» » 170, 93, 387
	Heidelberg	» Nov. 6*, 29*	» » 169, 381, 170, 82
	Wien	» Dez. 2, 5, 18, 1906 Jan. 28	» » 171, 305
579 [1905 SD]	Heidelberg	» Nov. 3*, 6*, 21*, 29*, Dez. 18*	» » 169, 320, 382, 170, 16, 82, 147
	Wien	» Nov. 23, Dez. 5, 12, 19, 31, 1906 Jan. 15, 29	» » 171, 305
	Heidelberg	» Dez. 17*, 27*	» » 170, 131, 147
580 [1905 SE]	Wien	» Dez. 30, 31, 1906 Jan. 3, Jan. 15, 24, Febr. 11, 12	» » 171, 305
	Heidelberg	» 1906 Febr. 20, 21	» » 170, 387
	Taunton	» 1905 Dez. 24*, 26*, 1906 Jan. 21*, Jan. 24*	» » 170, 177, 323
582 [1906 SO]	Heidelberg	» 1906 Jan. 23*, Febr. 15*, März 17*	» » 170, 242, 321, 171, 9
	Wien	» Jan. 28, März 23	» » 170, 323, 171, 11
	Heidelberg	» Jan. 20	» » 170, 387
583 [1905 SP]	Wien	» Jan. 0, 23, 24, 28, 29, Febr. 10, 11	» » 171, 305

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
584 [1906 SY]	Heidelberg . . .	1906 Jan. 15* (Mit 352 Gisela bezeichnet)	A. N. 170, 209
	Heidelberg . . .	» Jan. 20*, Febr. 15* . . .	» » 170, 241, 321
	Wien	» Febr. 25, März 8, 17, 26	» » 170, 371, 171, 11
585 [1906 TA]	Heidelberg . . .	» Febr. 16*, März 14* . . .	» » 170, 322, 171, 9
	Wien	» März 18, April 13, März 30	» » 171, 11, 45, 77
586 [1906 TC]	Heidelberg . . .	» Febr. 21*, Jan. 22*, März 14*	» » 170, 353, 171, 9
	Wien	» März 18, 28, April 16, 26	» » 171, 11, 45, 77, 143
587 [1906 TF]	Heidelberg . . .	» Febr. 22*, März 3*, 17* . . .	» » 170, 353, 354, 171, 9, 175
	Wien	» Febr. 23, 27, März 18, 23, März 26, 30	» » 170, 371, 171, 11, 45
588 [1906 TG]	Heidelberg . . .	» Febr. 22*, März 3*, 17* . . .	» » 170, 353, 354, 171, 9
	Wien	» März 5, 17, 23, 26, 30, April 13, 22, Mai 10, 19	» » 170, 371, 171, 11, 45, 77, 143, 237
589 [1906 TM]	Heidelberg . . .	» März 3*, 18*	» » 170, 354, 171, 9
	Wien	» März 23, 28, April 16, 29, Mai 14, 19	» » 171, 11, 45, 77, 143, 205, 237
590 [1906 TO]	Heidelberg . . .	» März 4*, 18*	» » 170, 371, 171, 9
	Wien	» März 23, April 2	» » 171, 11, 77
591 [1906 TP]	Heidelberg . . .	» März 14*, 18*, April 21*	» » 171, 9, 89
	Wien	» März 28, April 2, 26	» » 171, 45, 143
592 [1906 TS]	Heidelberg . . .	» März 18*	» » 171, 9
	Wien	» März 23, 28, April 19, 26, Mai 24	» » 171, 11, 45, 77, 143, 172, 31
593 [1906 TT]	Heidelberg . . .	» März 20*, April 11*	» » 171, 10, 63
	Wien	» April 19, 26, Mai 3, 10, 21	» » 171, 77, 143, 205, 237
594 [1906 TW]	Heidelberg . . .	» März 27*, 28*, April 11* . . .	» » 171, 30, 63
	Rom	» März 30, 31	» » 171, 27, 172, 197

574 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
594 [1906 TW]	Wien	1906 März 30, April 2, 13, 16, April 21, 26	A. N. 171, 45, 77, 145
595 [1906 TZ]	Heidelberg	März 27 ^a , 28 ^a , April 25 ^a	171, 30, 90
	Marseille	März 31, April 2, 3, 4, 11, 13, April 14, 19, 23, 24, 27, 28	B. A. 23, 307, 311
	Wien	März 30, Mai 3, 18	A. N. 171, 45, 143, 237
596 [1906 UA]	Heidelberg	Febr. 21 ^a , 22 ^a (Mit 546 P. I bezeichnet)	170, 333
	Heidelberg	März 26 ^a	171, 29
	Pulkowa	März 15 ^a	171, 12
	Wien	März 31	171, 45
597 [1906 UB]	Heidelberg	April 16 ^a , Mai 13 ^a	171, 64, 255
	Wien	Mai 18, 23	171, 237
598 [1906 UC]	Heidelberg	April 13 ^a	171, 63
	Wien	April 16, 21, Mai 14, 19	171, 77, 237
599 [1906 UJ]	Heidelberg	Mai 13 ^a	171, 205
	Taunton	April 25 ^a , 27 ^a	171, 173
	Wien	Mai 18, 23	171, 237
600 [1906 UM]	Taunton	Juni 14 ^a , 15 ^a	171, 351
601 [1906 UN]	Heidelberg	Juni 21 ^a	171, 351
	Wien	Juni 26, 27, Juli 2, 15	172, 31, 61
[1902 UV ^a]	Heidelberg	1902 März 5 ^a , 6 ^a	170, 371
[1904 OO ^a]	Heidelberg	1904 Aug. 12 ^a	171, 29
[1905 PR]	Wien	1905 Jan. 9, 14	171, 297
[1905 QQ]	Wien	Juni 30	171, 301
[1903 RG]	Heidelberg	1903 Sept. 22 ^a , 23 ^a , 27 ^a , Okt. 14 ^a	169, 319
[1905 RJ]	Heidelberg	1905 Okt. 20 ^a	169, 317
[1905 RL]	Heidelberg	Okt. 24 ^a , Nov. 3 ^a	169, 318, 327
[1905 RM]	Heidelberg	Okt. 25 ^a	169, 318
[1905 RN]	Heidelberg	Okt. 24, Nov. 3	170, 93
[1905 RO]	Heidelberg	Okt. 25 ^a , Nov. 1 ^a	169, 318, 319
[1905 RP]	Heidelberg	Okt. 25 ^a , Nov. 1 ^a	169, 318, 319
[1905 RQ]	Heidelberg	Okt. 26 ^a	169, 319
[1905 RR]	Heidelberg	Nov. 3, 20	170, 93
	Heidelberg	Nov. 29 ^a	170, 82
[1905 RS]	Heidelberg	Okt. 26 ^a , Nov. 17 ^a	169, 319, 170, 15
	Heidelberg	Nov. 1	170, 387
[1905 RI]	Heidelberg	Nov. 1 ^a	169, 319
	Heidelberg	Okt. 26, Nov. 17	170, 93, 327
	Wien	Nov. 3	171, 305
[1905 R1']	Heidelberg	Okt. 26, Nov. 17	170, 93
	Heidelberg	Nov. 1 ^a	169, 319
	Wien	Nov. 3	171, 325

NACHWEISUNGEN ÜBER DIE KL. PLANETEN. 575

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
[1905 RW]	Heidelberg . . .	1905 Nov. 1*	A. N. 169, 319
	Heidelberg . . .	Okt. 26. Nov. 17	170, 93, 387
[1905 RX]	Heidelberg . . .	Nov. 6*	169, 381
	Heidelberg . . .	Nov. 1, 25	170, 93
[1905 RY]	Heidelberg . . .	Nov. 6*	169, 381
	Heidelberg . . .	Nov. 1, 25	170, 93, 387
[1905 SA]	Heidelberg . . .	Nov. 3*, 20*, 29*	169, 320.
			170, 15, 82
[1905 SB]	Heidelberg . . .	Nov. 3*, 20*	169, 320,
			170, 15
[1905 SC]	Heidelberg . . .	Nov. 3*, 20*, 29*	169, 320,
			170, 81, 82
[1905 SD*]	Paris	Nov. 3	170, 391
[1905 SG]	Heidelberg . . .	Dez. 27*	170, 147
[1906 SJ]	Heidelberg . . .	1906 Jan. 15*, 20*	170, 209, 241
	Wien	Jan. 20, 24, Febr. 12	170, 227, 275,
			323
[1906 SL]	Heidelberg . . .	Jan. 20*, 22*	170, 241, 242
	Wien	Jan. 24, 29	170, 275, 323
[1906 SM]	Heidelberg . . .	Jan. 22*	170, 242
	Wien	Jan. 27	170, 275
[1906 SN]	Heidelberg . . .	Jan. 22*	170, 242
[1906 SR]	Heidelberg . . .	Jan. 24*, Febr. 15*	170, 243, 321
	Wien	Jan. 28	170, 323
[1906 SS]	Heidelberg . . .	Jan. 24*, Febr. 15*	170, 243, 321
[1906 ST]	Heidelberg . . .	Jan. 24*, Febr. 15*	170, 243, 321
	Wien	Febr. 17	170, 323
[1906 SU]	Heidelberg . . .	Jan. 24*, Febr. 15*, 16*	170, 243, 321.
			322
[1906 SV]	Heidelberg . . .	Jan. 24*, Febr. 15*	170, 244, 321
	Wien	Febr. 17	170, 323
[1906 SW]	Heidelberg . . .	Jan. 24*, Febr. 21*	170, 244, 353
[1906 SZ]	Heidelberg . . .	Febr. 16*	170, 322
[1906 TB]	Heidelberg . . .	Febr. 16*	170, 322
[1906 TD]	Heidelberg . . .	Febr. 21*, März 14*	170, 353.
			171, 9
[1906 TE]	Heidelberg . . .	Febr. 22*	170, 354
	Taunton	Febr. 16*, 17*, 23*, März 14*	170, 355, 371.
			171, 27
[1906 TH]	Heidelberg . . .	Febr. 22*	170, 354
[1906 TJ]	Taunton	Febr. 16*, 17*, 23*, März 17*	170, 355, 371.
			171, 27
[1906 TK]	Taunton	Febr. 16*, 17*, 23*, März 14*	170, 355, 371,
			171, 27
[1906 TL]	Taunton	Febr. 22*	170, 355

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Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
[1906 TN]	Heidelberg .	1906 März 3*	A. N. 170, 354
[1906 TQ]	Heidelberg .	» März 17*	» » 171, 9
[1906 TR]	Heidelberg .	» März 17*	» » 171, 9
	Wien	» März 23, 30	» » 171, 11, 45
[1906 TU]	Heidelberg .	» März 20*	» » 171, 10
[1906 TV]	Heidelberg .	» März 21*	» » 171, 10
[1906 TX]	Heidelberg .	» März 27*	» » 171, 29
	Wien	» April 1, 17	» » 171, 45, 77
[1906 TY]	Heidelberg .	» März 27*	» » 171, 29
[1906 TY ^a]	Heidelberg .	» März 27*	» » 172, 217
[1906 UH]	Taunton	» April 25*, 27*	» » 171, 173
[1906 UK]	Heidelberg .	» Mai 13*	» » 171, 205
	Wien	» Mai 14, 15, 19, 24	» » 171, 205, 237, 172, 31
[1906 UL]	Heidelberg .	» Mai 29*	» » 171, 272
[1906 UO]	Heidelberg .	» Juli 30*, Aug. 8*, 13*	» » 172, 110, 175, 176
[1906 UP]	Heidelberg .	» Aug. 13*, 19*	» » 172, 176, 217
[1906 UQ]	Heidelberg .	» Aug. 22*, 28*	» » 172, 218, 255
[1906 UR]	Heidelberg .	» Aug. 22*, 28*	» » 172, 218, 255
[1906 US]	Heidelberg .	» Aug. 22*, 28*	» » 172, 218, 255
[1906 UT]	Heidelberg .	» Aug. 22*, 27*, Sept. 11*, 12*	» » 172, 218, 287
[1906 UU]	Heidelberg .	» Aug. 27*, 28*	» » 172, 255, 256
[1906 UV]	Heidelberg .	» Aug. 28*	» » 172, 255
[1906 UX]	Heidelberg .	» Sept. 12*, 18*	» » 172, 287, 288
[1906 UY]	Heidelberg .	» Sept. 12*, 18*	» » 172, 287, 288
[1906 UZ]	Heidelberg .	» Sept. 12*, 17*, 18*	» » 172, 287, 288
[1906 VA]	Heidelberg .	» Sept. 17*	» » 172, 288
[1906 VB]	Heidelberg .	» Sept. 18*	» » 172, 288
[1906 VC]	Heidelberg .	» Sept. 18*	» » 172, 288
[1906 VD]	Heidelberg .	» Sept. 18*	» » 172, 288

B. Berechnungen.

Irch ein Sternchen (*) sind die Ephemeriden mit ausführlich gerechneten Positionen kenntlich gemacht.

Nr. und Name	Ort	Gegenstand
	der Publikation	
146 Lucina . . .	B. A. 23, 192 .	Ephemeride.
265 Anna . . .	A. N. 170, 241 .	Ephemeride*.
308 Polyxo . . .	B. A. 23, 309 .	Ephemeride.
318 Magdalena . .	A. N. 170, 357 .	Ephemeride.
345 Tercidina . .	> > 172, 95 .	Elemente, Ephemeride*.
365 Corduba . . .	> > 170, 83 .	Ephemeride.
397 Vienna . . .	> > 171, 287 .	Ephemeride.
406 Erna . . .	> > 169, 285 .	Elemente,
	> > 169, 287 .	Elemente, Ephemeride.
408 Fama . . .	> > 172, 285 .	Ephemeride.
441 [1898 ED] . .	> > 171, 317 .	Ephemeride.
475 Ocllo . . .	> > 172, 189 .	Bahnverbesserung.
478 Tergeste . . .	> > 172, 221 .	Ephemeride.
480 Hansa . . .	> > 172, 109 .	Ephemeride.
481 Emita . . .	> > 170, 29 .	Ephemeride.
487 Venetia . . .	> > 171, 173 .	Elemente, Ephemeride*.
488 Kreusa . . .	> > 172, 123 .	Elemente.
	> > 170, 355 .	Kreisbahn, Ephemeride.
494 Virtus . . .	> > 171, 205 .	Elemente, Ephemeride.
501 Urhixidur . .	> > 172, 255 .	Ephemeride.
504 Cora . . .	> > 170, 287 .	Elemente.
505 Cava . . .	> > 170, 289 .	Elemente.
516 Amherstia . .	> > 170, 305 .	Elemente, Ephemeride*.
520 Franziska . .	> > 171, 63 .	Ephemeride.
521 Brixia . . .	> > 171, 71 .	Elemente, Ephemeride*.
522 Helga . . .	> > 171, 237 .	Ephemeride.
	> > 169, 399 .	Elemente.
524 Fidelio . . .	> > 172, 221 .	Ephemeride.
526 Jena . . .	> > 171, 319 .	Identität mit 1901 HB.
529 Preciosa . . .	> > 171, 189 .	Identität mit 1902 KY.
532 Herkulina . .	> > 170, 177 .	Ephemeride.
554 Peraga . . .	> > 169, 285 .	Elemente.
	> > 169, 297 .	Elemente.
	> > 171, 73 .	Elemente, Ephemeride.
	> > 171, 175 .	Identität mit 1896 CX.

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Nr. und Name	Ort der Publikation	Gegenstand
555 Norma . . .	A. N. 169, 285 .	Elemente.
556 Phyllis . . .	> > 169, 285 .	Elemente.
557 Violetta . . .	> > 169, 285 .	Elemente.
	> > 169, 301 .	Elemente.
558 Carmen . . .	> > 169, 285 .	Elemente.
559 Nanon . . .	> > 169, 285 .	Elemente.
560 Delila . . .	> > 169, 285 .	Elemente.
561 Ingwelde . . .	> > 169, 285 .	Elemente.
562 Salome . . .	> > 169, 285 .	Elemente.
563 Suleika . . .	> > 169, 285 .	Elemente.
564 Dudu . . .	> > 169, 285 .	Elemente.
565 Marbachia . . .	> > 169, 285 .	Elemente.
566 Stereoskopia . . .	> > 169, 285 .	Elemente.
567 Eleutheria . . .	> > 169, 285 .	Elemente.
568 Cheruskia . . .	> > 169, 285 .	Elemente.
569 Misa . . .	> > 169, 285 .	Elemente.
578 [1905 <i>RZ</i>] . . .	> > 170, 239 .	Elemente.
	> > 171, 239 .	Elemente.
583 [1906 <i>SP</i>] . . .	> > 171, 240 .	Elemente.
588 [1906 <i>TG</i>] . . .	> > 171, 11 .	Kreisbahn, Ephemeride.
	> > 171, 127 .	Elemente, Ephemeride.
599 [1906 <i>UJ</i>] . . .	> > 171, 351 .	Elemente, Ephemeride.
[1902 <i>KR</i>] . . .	> > 171, 190 .	Identität mit [1902 <i>KV</i>].

Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs für 1909.

Das Jahrbuch gibt die Örter der Wandelsterne in zwei Gattungen von **Koordinaten** an, in **Ekliptikal-** und **Äquatorial-Koordinaten**.

Bei den **Ekliptikal-Koordinaten** ist im allgemeinen als Anfangspunkt der **Sonnenmittelpunkt** angenommen und eine feste Lage der **Ekliptik** und des **Äquinoktiums** zu Grunde gelegt.

Bei den **Äquatorial-Koordinaten** ist als Anfangspunkt der **Erdmittelpunkt** angenommen und die jedesmalige wahre Lage des **Äquators** und des **Äquinoktiums** zu Grunde gelegt.

Die **Zeitangaben** für die im Jahrbuch mitgeteilten Örter sind überall, wo nicht ausdrücklich eine andere Zeit erwähnt wird, in mittlerer Berliner Sonnenzeit ausgedrückt. Die Lage des Berliner Meridians gegen diejenigen Meridiane, auf deren Zeitangaben sich die im Jahrbuch benutzten **Sonnen-, Mond- und Planetentafeln** begründen, ist nach den neusten Bestimmungen angenommen:

Berlin östlich von Paris um $44^m 13^s.86$,

Berlin östlich von Greenwich um $53^m 34^s.80$.

Der **Anfang des Tages** ist der **Mittag**; die **Zählung der Stunden** ist durchgängig bis 24 angenommen worden, so daß die Stunden unter 12 die **Nachmittagstunden** desselben bürgerlichen Tages, die Stunden über 12, wenn man sie um 12 vermindert, die **Vormittagstunden** des nächstfolgenden bürgerlichen Tages sind.

Das Jahrbuch enthält aufer den Angaben über die **Zeit- und Festrechnung** folgende

Hauptabschnitte:

	Seite		Seite
1) Reduktionselemente	1	Erläut.	580
2) Sonnenephemeride und rechtwinkelige Sonnenkoordinaten	2	>	581
3) Mondephemeride	42	>	582
4) Ephemeride für den Mondkrater Mösting A	82	>	584
5) Lage des Mondäquators und Angaben über die Mondbewegung	87	>	586

	Seite	Seite
6) Auf- und Untergang von Sonne und Mond in Berlin	89	Erläut. 587
7) Wahre geozentrische Örter der Planeten: Merkur, Venus, Mars, Jupiter, Saturn, Uranus und Neptun	94	> 587
8) Heliozentrische Koordinaten der Planeten: Merkur, Venus, Erde, Mars, Jupiter, Saturn, Uranus und Neptun	144	> 589
9) Mittlere Örter von 925 Fixsternen	149	> 589
10) Scheinbare Örter von 573 Fixsternen	176	> 590
11) Reduktionstabellen für die Bewegungen der Koordi- naten-systeme und die Aberration	376	> 591
12) Sonnen- und Mondfinsternisse	402	> 593
13) Sternbedeckungen durch den Mond	407	> 595
14) Angaben über die Jupiterstrabanten	417	> 601
15) Angaben über den Saturnsring	423	> 603
16) Angaben über die Saturnstrabanten	425	> 604
17) Konstellationen	455	> 608
18) Hilfstabellen	457	> 609
19) Koordinaten der Sternwarten	469	> 610
20) Bahnelemente der kleinen Planeten	476	> 610
21) Oppositionsdaten der kleinen Planeten für 1907	508	> 611
22) Oppositionsephemeriden von 33 kleinen Planeten für 1907	520	> 611
23) Nachweisungen über die kleinen Planeten	553	> 612

1) Reduktionselemente.

Die auf Seite 1 gegebene Übersicht der Reduktionselemente enthält für die mittleren Mittagze von 10 zu 10 Tagen fortschreitend folgende Angaben:

1) Die mittlere Schiefe der Ekliptik, berechnet nach der Angabe von Newcomb (*Tables of the Motion of the Earth*, S. 10), nämlich:

$$\varepsilon = 23^{\circ} 27' 8''.26 - 0''.4685 (t - 1900 \text{ Jan. 0}).$$

2) Die scheinbare Schiefe der Ekliptik, entstanden aus der vorhergehenden unter Hinzufügung der Nutation in Schiefe, nämlich:

$$\begin{aligned} \Delta\varepsilon = & + 0''.5519 \cos 2\odot + 0''.0092 \cos (\odot + 281^{\circ} 22') \\ & + 9''.210 \cos \Omega - 0''.0895 \cos 2\Omega. \end{aligned}$$

Das kurzperiodische Glied

$$+ 0''.0884 \cos 2\zeta$$

ist hier weggelassen, findet sich aber in der letzten Kolumne der Sonnenephemeride von Tag zu Tag aufgeführt.

3) Die Präzession in Länge, berechnet mit der Newcombschen Präzessionskonstante:

Jährliche Präzession in Länge für 1909: $50''.2584$.

4) Die Nutation in Länge, berechnet aus:

$$- 1''.2725 \sin 2 \odot + 0''.1477 \sin (\odot + 81^\circ 50')$$

$$- 17''.2330 \sin \Omega + 0''.2070 \sin 2 \Omega.$$

Die kurzperiodischen Glieder

$$- 0''.2038 \sin 2 \zeta + 0''.0676 \sin (\zeta - \Gamma'')$$

sind hier weggelassen, finden sich aber in der Sonnenephemeride in der vorletzten Kolonne von Tag zu Tag aufgeführt.

Die angegebene Nutation entspricht dem Zeichen nach der Reduktion von mittlerer Länge auf wahre.

5) Die Aberration der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $20''.47$ berechnet.

6) Die Parallaxe der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $8''.80$ berechnet.

2) Sonnenephemeride.

Bei der Sonnenephemeride, welche nach den Sonnentafeln von Newcomb (*Astr. Papers* Vol. VI, Part. I) berechnet ist, enthält die linke Seite diejenigen Angaben, welche bei der Beobachtung der Sonne gebraucht werden; ihre Epoche ist der mittlere Berliner Mittag.

Sie enthält außer dem Datum des Monats und dem Wochentage in sieben neben einander stehenden Kolonnen:

1) Die Zeitgleichung oder den Unterschied zwischen wahrer und mittlerer Zeit.

2) Die scheinbare Rektascension der Sonne.

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die scheinbare Deklination der Sonne.

5) Die ersten Differenzen dieser Zahlenreihe.

6) Die Durchgangsdauer der Sonne in Sternzeit.

7) Den scheinbaren Halbmesser der Sonnenscheibe.

Bei der Rektascension und Deklination ist die Aberration bereits angebracht, dieselben sind daher direkt mit den Beobachtungen vergleichbar.

Gemäß den Beschlüssen der Pariser Konferenz sind die Nutationsglieder kurzer Periode hier ebenso wie bei den folgenden Planetenephemeriden weggelassen.

Auf der rechten Seite stehen, ebenfalls mit der Epoche des mittleren Berliner Mittags, außer dem Monats- und Jahrestage in acht Kolonnen neben einander:

1) Die Sternzeit im mittleren Mittage oder die wahre Rektascension der mittleren Sonne.

2) Die Länge der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1909.0 (annus fictus).

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die Breite der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1909.0 (annus fictus).

5) und 6) Der Logarithmus des Radius vector der Sonne mit den Differenzen.

7) und 8) Die von der Mondlänge abhängigen Glieder der Nutation in Länge und Schiefe der Ekliptik, nämlich:

$$d\lambda = -0''.2038 \sin 2\zeta + 0''.0676 \sin (\zeta - F')$$

$$ds = +0''.0884 \cos 2\zeta.$$

Die Koordinaten dieser Seite sollen bei Bahnberechnungen und dergleichen dienen, sie sind deshalb frei von Aberration, deren Berücksichtigung nur bei ihrer Anwendung zur Vorausberechnung von Finsternissen erforderlich wäre. Für diesen Fall findet man die Korrektion, die man von der Länge abziehen muß, in der vorletzten Kolumne der Seite I.

Für die Berechnung des scheinbaren Sonnenhalbmessers ist nach Professor Auwers $15' 59''.63$ angenommen.

Auf Seite 22 — 41 folgen die rechtwinkligen Sonnenkoordinaten von 12^h zu 12^h mittlerer Zeit, bezogen auf die mittlere Lage des Äquators und Äquinoktiums für den Anfang des *annus fictus* 1909 (1909 Jan. 0.53).

Diese Koordinaten sind bekanntlich mit entgegengesetzten Zeichen die Koordinaten des Erdmittelpunktes gegen den Sonnenmittelpunkt als Ursprung, bezogen auf eine X -Achse, deren positive Richtung in einer durch den Sonnenmittelpunkt parallel der Ebene des Erdäquators gelegten Ebene durch die Linie des aufsteigenden Knotens der Erdbahn in dieser heliozentrischen Äquatorialebene bestimmt wird, deren positive Y -Achse in der heliozentrischen Äquatorialebene 90° in der Richtung der Erdbewegung von der X -Achse absteht, und deren positive Z -Achse parallel der Erdachse nach der nördlichen Seite gerichtet ist.

Neben den Koordinaten stehen von Tag zu Tag die Reduktionen derselben auf das mittlere Äquinoktium des benachbarten Jahrzehnt-Anfanges 1910.0 in Einheiten der letzten Dezimale; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre.

3) Mondephemeride.

Von den die Mondephemeride enthaltenden Seiten 42 — 81 geben die links liegenden Seiten für mittleren Mittag und Mitternacht:

- 1) Die wahre Rektascension des Mondes mit den Differenzen.
- 2) Die wahre Deklination des Mondes mit den Differenzen.
- 3) Den log. Sinus der Äquatorial-Horizontal-Parallaxe des Mondes mit den Differenzen.
- 4) Den scheinbaren Halbmesser des Mondes.

Unterhalb dieser Kolonnen sind die Epochen der Mondphasen angegeben.

Auf den rechts liegenden Seiten befinden sich die Angaben, welche die Meridianbeobachtungen des Mondes und ihre Reduktion unterstützen sollen, sowie nach dem Verzeichnis des *Nautical Almanac* die genäherten Örter der sogenannten Mondsterne, deren korrespondierende Beobachtung in Verbindung mit dem Monde besonders die Genauigkeit der Längenbestimmungen aus Mondkulminationen, sowie auch der Parallaxenbestimmungen aus Zenitdistanzen erhöhen soll.

Die abgekürzte Ortsangabe der Mondsterne, welche für die Aufsuchung derselben hinreicht, wird als genügend betrachtet werden können, wenn man bedenkt, daß der Hauptzweck der Mondsternangaben die Herbeiführung korrespondierender Beobachtungen derselben ist, daß aber bei solchen die Örter dieser Sterne eliminiert werden, und daß bei einem Mangel an korrespondierenden Beobachtungen entweder eine sehr sorgfältige und selbständige Diskussion der für die Mondposition zu Grunde zu legenden Sternörter oder die Beziehung derselben auf die Meridianbeobachtungen benachbarter Fundamentalsterne eintreten muß.

Es enthalten auf diesen Seiten:

Die 1. Kolonne den Monatstag und die Bezeichnung des oberen oder unteren Berliner Meridiandurchganges des Mondes durch *O* und *U*.

Die 2. Kolonne die Mittl. Berl. Zeit des Meridiandurchganges des Mondes.

Die 3. Kolonne die Rektascension des Mondes zur Zeit der Kulmination.

Die 4. Kolonne die halbe Durchgangsdauer in Sternzeit berechnet mit Hilfe des geozentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

Die 5. Kolonne die stündliche Bewegung in Rektascension einschließlic der Veränderung des Halbmessers, hier für die besonderen Zwecke nicht auf eine Stunde mittlerer Zeit sondern auf das Zeitintervall bezogen, welches zwischen zwei der Epoche benachbarten Durchgängen des Mondes durch zwei um eine Stunde von einander abstehende Meridiane verfließt.

Die 6. Kolonne die Deklination des Mondes zur Zeit der Kulmination.

Die 7. Kolonne die stündliche Bewegung in Deklination (auf dasselbe Intervall bezogen wie die Bewegung in AR.).

Die 8., 9., 10. Kolumne die Rektascension, Deklination und Gröfse der allgemein angenommenen Mondsterne oder Vergleichsterne des Mondes nach dem *Nautical Almanac*. Bei deren Auswahl ist das Prinzip befolgt, dafs von den jedesmal zu benutzenden 4 Sternen die beiden dem Monde folgenden am folgenden Tage als die beiden vorangehenden beobachtet werden. Es gehören also zu jeder oberen Kulmination (Berlin) die 4 aufeinanderfolgenden Sterne, deren erster auf gleicher Linie mit der Angabe des zugehörigen Monatstages steht.

Dieselben Seiten enthalten endlich unterhalb jener Kolumnen die Epochen des Perigäums und Apogäums des Mondes.

Von den Mondörtern ist nur eine geringe Anzahl für die Finsternisse direkt nach den *Tables de la lune, construites d'après le principe Newtonien de la gravité universelle par P. A. Hansen*, mit Berücksichtigung von *Newcombs Corrections to Hansens Tables of the Moon*, berechnet worden; für die Berechnung der Ephemeride ist dagegen die ausführliche Mondephemeride des *Nautical Almanac* benutzt worden, die der Redaktion infolge Übereinkommens mit der *Nautical Almanac Office* in den Aushängebogen zur Verfügung stand.

4) Ephemeride für den Mondkrater Mösting A.

Die Ephemeride des Mondkraters Mösting A, Seite 82—86, dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschlafs an Mösting A.

Sie gilt für die mittlere Mitternacht in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_{\zeta} - \alpha_k$ in Rektascension und $\delta_{\zeta} - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen mit ihren Differenzen, sowie den Logarithmus des Sinus der Äquatorialhorizontal-Parallaxe p_k des Kraters, welche von der des Mondes p_{ζ} zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpoliere man unter strenger Berücksichtigung der zweiten Differenzen $\alpha_{\zeta} - \alpha_k$, $\delta_{\zeta} - \delta_k$ und $\log \sin p_k$ mit der Zeit des Durchgangs des Kraters durch den Meridian. Dann befreie man die beobachtete Deklination des Kraters von der Höhenparallaxe, indem man diese in der bekannten Weise mit dem Argument der wahren Kraterdeklination (nicht Monddeklination), unter Benutzung von p_k , berechnet. Bringt man alsdann

$\alpha_{\zeta} - \alpha_k$ und $\delta_{\zeta} - \delta_k$ an die Beobachtung an, so hat man die AR. und Dekl. des Mondes, wie sie vom Erdmittelpunkt aus beobachtet wären, für die Beobachtungszeit, d. h. für die Kulmination des Kraters (nicht des Mondes).

Für Beobachtungen außerhalb des Meridians interpoliere man $\alpha_{\zeta} - \alpha_k$, $\delta_{\zeta} - \delta_k$ und $\log \sin p_k$ mit der Zeit der Beobachtung. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_{\zeta} - \alpha'_k$ offenbar, indem man die mit p_{ζ} und dem Mondort berechnete Parallaxe $\alpha'_{\zeta} - \alpha_{\zeta}$ des Mondes in AR. zu $\alpha_{\zeta} - \alpha_k$ addiert und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahiert. Es ist nämlich:

$$\alpha'_{\zeta} - \alpha'_k = \alpha_{\zeta} - \alpha_k + (\alpha'_{\zeta} - \alpha_{\zeta}) - (\alpha'_k - \alpha_k)$$

und ebenso

$$\delta'_{\zeta} - \delta'_k = \delta_{\zeta} - \delta_k + (\delta'_{\zeta} - \delta_{\zeta}) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von α'_{ζ} und δ'_{ζ} , mit der auf Seite 87 angegebenen Lage des Mondäquators und der mit den Angaben auf Seite 457 berechneten physischen Mondlibration die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die scheinbare AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_{\zeta}) \cos \frac{1}{2} (\delta' + \delta'_{\zeta})$$

$$s \cos \pi_m = (\delta' - \delta'_{\zeta})$$

$$\pi = \pi_m - \frac{1}{2} (\alpha' - \alpha'_{\zeta}) \sin \frac{1}{2} (\delta' + \delta'_{\zeta})$$

$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der scheinbare Radiusvector des Kraters, der aus h , dem vom Erdmittelpunkt aus gesehenen Radiusvector, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers eingesetzt werden.

$$\sin d = -\sin \delta'_{\zeta} \cos K + \cos \delta'_{\zeta} \sin K \cos \pi$$

$$\cos d \cos (\alpha - \alpha'_{\zeta}) = -\cos \delta'_{\zeta} \cos K - \sin \delta'_{\zeta} \sin K \cos \pi$$

$$\cos d \sin (\alpha - \alpha'_{\zeta}) = \sin K \sin \pi$$

$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (\alpha - \Omega)$$

$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (\alpha - \Omega')$$

$$\cos \beta \cos \lambda' = \cos d \cos (\alpha - \Omega').$$

Die Gröſſen i und Ω' entnehme man der Seite 87.

$$\lambda = \lambda' - 180^\circ - L - (A - \mathcal{U}).$$

L , die mittlere Länge des Mondes, findet sich auf Seite 88, wie $A - \mathcal{U}$ auf Seite 87.

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluſſe der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrekturen:

$$\begin{aligned} d\lambda &= +12'' \sin M - 59'' \sin M' - 18'' \sin 2\omega \\ &\quad + \operatorname{tg}\beta [-108'' \cos(\omega + \lambda) + 36'' \cos(\omega - \lambda) - 11'' \cos(M + \omega - \lambda)] \\ d\beta &= +108'' \sin(\omega + \lambda) + 36'' \sin(\omega - \lambda) - 11'' \sin(M + \omega - \lambda) \end{aligned}$$

Die Gröſſen M , M' , ω sind der Seite 457 zu entnehmen.

Bringt man diese Korrekturen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters

$$\lambda_0 = \lambda + d\lambda, \quad \beta_0 = \beta + d\beta.$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (A. N. 4083) zugrunde:

$$\begin{aligned} \lambda_0 &= -5^\circ 10' 13'', & \beta_0 &= -3^\circ 10' 58'' \\ h &= 15' 34''.71 \text{ entsprechend der Parallaxe } 57' 2''.27. \end{aligned}$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$\begin{aligned} d\lambda &= -12'' \sin M + 59'' \sin M' + 18'' \sin 2\omega \\ d\beta &= -144'' \sin \omega + 11'' \sin(M + \omega) \end{aligned}$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda; \quad \beta = \beta_0 + d\beta.$$

5) Lage des Mondäquators. Mondbewegung.

Die beiden Tafeln auf Seite 87 und 88 dienen neben dem oben angegebenen Zweck zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 458 und 459) und zur Ermittlung des Winkels C , welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Deklinationskreise bildet.

Die Formeln für die Berechnung der optischen Libration sind auf Seite 459 vollständig aufgeführt. Der Winkel C ergibt sich aus folgender Formel, wenn

- i die Neigung des Mondäquators gegen den Erdäquator,
 Δ das Stück des Mondäquators vom aufsteigenden Knoten im
 Erdäquator bis zum aufsteigenden Knoten in der Ekliptik,
 Ω' den aufsteigenden Knoten des Mondäquators im Erdäquator,
 \mathcal{Q} den aufsteigenden Knoten des Mondäquators in der Ekliptik,
 α, δ Rektascension und Deklination des Mittelpunktes der Mondscheibe,
 gesehen vom Beobachtungsort aus,
 l', b' . . die optische Libration in selenographischer Länge und Breite,
 l die mittlere Länge des Mondes,
 bezeichnen und $l = l' + l$ gesetzt wird:

$$\sin C = -\sin i \frac{\cos(l + \Delta - \mathcal{Q})}{\cos \delta} = -\sin i \frac{\cos(\alpha - \delta')}{\cos b'}$$

wobei C vom nördlichen Teil des Deklinationskreises nach Osten positiv gerechnet wird.

Bei der Berechnung von i, Δ, Ω' ist die Neigung des Mondäquators gegen die Ekliptik nach F. Hayn (Selenographische Koordinaten) zu $J = 1^\circ 32' 6''$ angenommen worden. Die Angaben sind frei von physischer Libration.

Die in der ersten Kolumne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

6) Auf- und Untergang von Sonne und Mond für Berlin.

Auf Seite 89—93 sind die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit aufgeführt, welche als Grundlage für die Kalenderrechnungen benachbarter Orte häufig Verwendung finden.

7) Planetenephemeriden.

Von Seite 94—143 folgen die wahren geozentrischen Örter der Hauptplaneten. Dieselben sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen gegeben. Überall sind den mit der Beobachtung zu vergleichenden Angaben die ersten Differenzen beigefügt, die für eine genaue Interpolation zweckmäßiger erscheinen als die Angabe der Bewegung in r^h Länge.

Sämtliche geozentrische Koordinaten beziehen sich auf die jedesmalige wahre Lage des Äquators und des Äquinoktiums, sind aber frei von der *Aberratio fixarum*, so daß man bei ihrer Vergleichung mit den Beobachtungen bekanntlich von den Beobachtungszeiten die jedesmalige Aberrations- oder Lichtzeit abziehen muß, dann aber mit den so kor-

rigierten Epochen im Jahrbuche diejenigen wahren Richtungen findet, welche mit den beobachteten scheinbaren, nur von Parallaxe befreiten, direkt vergleichbar sind. Dieses Verfahren ist bis zu den Grenzen unseres Planetensystems ausreichend genau, da der Maximalfehler desselben nahezu $0''.001 \Delta$ beträgt, also selbst bei Neptun $0''.03$ nicht übersteigt.

Die »Log. Δ « überschriebene Kolumne gibt den für Berechnung der Lichtzeit und der Parallaxe erforderlichen Wert des Log. der Entfernung der Planeten vom Erdmittelpunkte in der bekannten Einheit ausgedrückt.

Die vorletzte Kolumne jeder Seite enthält unter der Bezeichnung »Östlicher Stundenwinkel« des Planeten einen genäherten Wert für die mittlere Zeit seiner oberen Kulmination. Die letzte Kolumne gibt den halben Tagbogen für die im Berliner Mittag stattfindende Deklination. Aus beiden Reihen von Werten wird man alles Erforderliche für Auf- und Untergang leicht ableiten können.

Als Grundlage für die Berechnung haben neben den Newcombschen Sonnentafeln gedient:

- für Merkur, Venus und Mars die Newcombschen Tafeln in *Astronomical Papers*, Vol. VI, Part 2, 3 und 4,
- für Jupiter und Saturn die Tafeln von G. W. Hill in *Astronomical Papers*, Vol. VII, Part I und 2,
- für Uranus und Neptun die Newcombschen Tafeln in *Astronomical Papers*, Vol. VII, Part 3 und 4.

Die Reduktionen auf den wahren Ort sind durchweg mit den im Jahrbuch allgemein angewandten Präzessions- und Nutationsausdrücken berechnet, über welche unten näheres folgt. Die von der Mondlänge abhängenden Nutationsglieder sind durchweg fortgelassen.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für Merkur Halbmesser	. . . . .	3".34
» Venus	»	8.78
» Mars	»	4.68
» Jupiter	» (Äquatorial)	99.8
	» (Polar)	92.6
» Saturn	» (Äquatorial)	81.4
	» (Polar)	73.4
» Uranus	»	34.7
» Neptun	»	45

8) Heliozentrische Örter.

Auf die geozentrischen Ephemeriden der Hauptplaneten folgen Seite 144—148 die heliozentrischen Koordinaten derselben, und zwar der Log. des Radius vector, die Länge in der Bahn und die Reduktion auf die Ekliptik, die Breite und bei den Planeten Jupiter, Saturn, Uranus und Neptun noch der Winkel B_* , welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Kolonnen hinzugefügten Angaben über Ω und i gelten. (Siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Da diese heliozentrischen Koordinaten hauptsächlich zur Berechnung der speziellen Störungen dienen sollen, so ist die Genauigkeit und Ausführlichkeit ihrer Angaben dem ihrem Zweck entsprechenden Mafse angepaßt worden.

Hinzugefügt sind endlich aufer Ω und i noch die Angaben betreffend die Masse der Planeten, und zwar:

- für Merkur, Venus und (Erde + Mond) nach Newcomb (*Tables of the Sun*, Seite 12),
- für Mars nach A. Hall,
- für Jupiter nach Newcomb,
- für Saturn nach Bessel,
- für Uranus nach Hill (*Tables of Saturn*, Seite 167),
- für Neptun nach Newcomb (*Tables of Uranus*, Seite 293).

9) Mittlere Örter von 925 Fixsternen.

Das Verzeichnis der mittleren Sternörter für 1909.0 auf Seite 149 bis 175 enthält die Örter von 603 der 622 Sterne des alten Fundamentalkatalogs und seiner südlichen Fortsetzung, ferner von 296 Sternen aus dem neuen Fundamentalkatalog für die Südsterne, welche A. Auwers in *Astron. Nachr.* Nr. 3431/32 gegeben hat und von 26 der 303 Zusatzsterne aus der Zwischenzone, im ganzen von 925 Sternen. Darunter befinden sich 10 nördliche und 10 südliche Polsterne über 81° Deklination, welche von den übrigen Sternen getrennt in einem besonderen Abschnitt aufgeführt sind.

Die Örter der an erster Stelle genannten Sterne enthalten die definitiven Korrekturen, welche A. Auwers in *Astron. Nachr.* Nr. 3927/29 angegeben hat. Bei den Eigenbewegungen ist unter gleichzeitiger Berücksichtigung ihrer Veränderlichkeit die Newcombsche Präzessionskonstante vorausgesetzt. Bei der Berechnung der südlichen Polsterne waren versehentlich für das Jahr 1908 noch die Auwerschen, auf die Struve'sche Präzession bezogenen Eigenbewegungen benutzt worden.

Auch sind bei den Sternen ξ Mensae und β Octantis die *Astron. Nachr.* 168 S. 171 und 187 gegebenen Korrekturen unbeachtet geblieben.

Hiernach bedürfen die mittleren und scheinbaren Örter der südlichen Polsterne noch folgender Verbesserungen:

Für 1908	$\Delta\alpha$	$\Delta\mu$	$\Delta\delta$	$\Delta\mu'$
Octantis 4 G.	-0.01	-0.001	+0.04	+0.005
[ξ Mensae]	+0.26	+0.009	+0.72	+0.014
ζ Octantis	-0.02	-0.002	-0.03	-0.004
ι Octantis	+0.01	+0.001	-0.04	-0.005
Octantis 20 G.	+0.05	+0.006	-0.03	-0.004
Octantis 26 G.	+0.04	+0.005	-0.02	-0.002
χ Octantis	+0.07	+0.009	0.00	0.000
σ Octantis	+0.20	+0.026	+0.01	+0.001
β Octantis	+0.18	+0.007	+0.65	+0.012
τ Octantis	+0.02	+0.002	+0.04	+0.005
Für 1909				
ξ Mensae	+0.29	+0.011	+0.72	+0.013
β Octantis	+0.17	+0.006	+0.61	+0.007

Bei den Angaben für Sirius auf Seite 156 sind die zu den Elementen V* gehörigen Werte (*Astr. Nachr.* 3929, Seite 301) angenommen worden.

10) Scheinbare Örter von 573 Fixsternen.

Die scheinbaren Örter der Sterne (Seite 176—375) sind für die 18 weniger als 10° von den Polen entfernten Sterne von Tag zu Tag, für die übrigen 555 Sterne von 10 zu 10 Tagen angegeben und beziehen sich auf die Epoche derjenigen oberen Kulmination im Berliner Meridian, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Übergang einer Kulmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, daß das Datum des Tages, an welchem zwei obere Kulminationen stattfinden, vor den Rektascensionen aufgeführt ist.

Am Fuß der Ephemeride für jeden Stern ist sein mittlerer Ort für den Anfang des Jahres wieder angegeben, außer bei den Polsternen, für welche an dieser Stelle der Betrag der täglichen Aberration in Rektascension für die Kulminationszeit steht. Hierbei liegt der auch auf Seite 376 angegebene Zahlenwert $0''.0213$ zu Grunde.

Bei den von 10 zu 10 Tagen fortschreitenden Ephemeriden sind die scheinbaren Örter auf $0''.01$ in Rektascension und $0''.1$ in Deklination angesetzt. Die kurzperiodischen Mondglieder der Nutation sind bei

der Berechnung weggelassen worden und müssen in den Fällen, wo ihre Mitnahme wünschenswert erscheint, nach den Formeln auf Seite 376 und mit Hilfe der Tafel auf Seite 388 u. 389 besonders berechnet werden.

Bei den von Tag zu Tag berechneten scheinbaren Örtern der 18 den Polen nächsten Sterne sind, im Einklange mit der Bedeutung der Hundertteile der Zeitsekunde für die Rektascensionen dieser Sterne, die Deklinationen auf Hundertteile der Bogensekunde angegeben; bei diesen Sternen sind auch die kurzperiodischen Mondglieder der Nutation angebracht, mit Ausnahme von f' .

Die der Berechnung der scheinbaren Örter zu Grunde gelegten Konstanten der Präzession, Nutation und Aberration entsprechen den Beschlüssen der Pariser Konferenz und sind aus der Formelübersicht Seite 376 zu ersehen. Man sehe hierüber auch den nächsten Abschnitt ein.

Der Betrag der jährlichen Parallaxe ist bei folgenden drei Sternen, bei denen diese ansehnlich und ihrem Werte nach hinreichend verbürgt ist, nämlich bei

α Canis maj.	mit der Parallaxe	0".38
α Lyrae	» » »	0.18
β Cygni	» » »	0.51

bereits berücksichtigt.

11) Reduktionstafeln.

Auf die scheinbaren Örter der Sterne folgt Seite 376 eine Zusammenstellung der Formeln, nach welchen die Reduktionskonstanten der darauf folgenden Tafeln berechnet sind. Hierbei sind die Präzessionsgrößen nach Newcomb, die Nutationskonstante $9''.21$ und die Aberrationskonstante $20''.47$ gemäß den Beschlüssen der Pariser Konferenz zu Grunde gelegt.

Für den Gebrauch der Reduktionstafel für die Sterntage 1909 (Seite 377) ist erläuternd hinzuzufügen, daß derjenige absolute Moment, in welchem die mittlere Sonnenlänge 280° oder die Rektascension der mittleren Sonne = $18^h 40^m$ ist, als die Anfangsepoche des astronomischen annus fictus und als der bequeme Ausgangspunkt der Zählung aller scheinbaren Bewegungen der Sterne, die von der Sonnenlänge abhängig sind, angenommen ist. An diesen Moment reihen sich die Epochen der Tafel (Seite 377) nach Sterntagen. Die Sonne erreicht jene Stellung um $7^h 23^m.9$ Sternzeit Berlin 1909 Jan. 0. Die Angaben der ersten Kolumne »Datum in mittlerer Zeit« drücken, von dieser Anfangsepoche beginnend,

in Hundertteilen des mittleren Tages von Berlin die Zeitpunkte aus, welche der Folge der Sternzeiten entsprechen, und für welche die Zahlen der Tafel gelten. Man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch mittleres Datum, Sternzeit und Längendifferenz mit Berlin, leicht und sicher übergehen können.

Diese Tafel dient für Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge, ohne Berücksichtigung der von der Mondlänge abhängigen Nutationsglieder. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb mit Vorteil die Interpolation erst nach der Summierung der einzelnen Korrekturen, welche unmittelbar für die Epochen der Tafeln berechnet werden können, eintreten lassen.

Die zweite Tafel (Seite 378—387) gibt nach den Anweisungen der Seite 376 für die mittlere Mitternacht Berlin die bekannten Konstanten zur Reduktion auf den scheinbaren Ort und zwar unter Weglassung der von der Mondlänge abhängigen Nutationsglieder, da diese Tafel überwiegend zu Reduktionen bei Vergleichen von Beobachtungen mit Ephemeriden dienen soll. In der letzten Kolonne ist jedoch, um die Mondglieder in derselben Form hinzufügen zu können, unter dem Zeichen ζ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 388 und 389 angeführt, wobei die Peripherie in 1000 Teile geteilt gedacht ist.

Die Tafeln für die schnell veränderlichen Mondglieder der Nutation (Seite 388 und 389) enthalten die Hilfsmittel für die Reduktionen auf den scheinbaren Ort in derselben Form wie die vorangehenden beiden Tafeln.

Denselben liegen folgende Formeln zu Grunde:

$$A' = -0.00405 \sin 2 \zeta + 0.00134 \sin (\zeta - 0^\circ 55')$$

$$B' = -0.0884 \cos 2 \zeta$$

und

$$f' = -0''.1865 \sin 2 \zeta + 0''.0618 \sin (\zeta - 0^\circ 55')$$

$$g' \sin G' = -0.0884 \cos 2 \zeta$$

$$g' \cos G' = -0.0811 \sin 2 \zeta + 0.0269 \sin (\zeta - 0^\circ 55').$$

Die hauptsächlichste Vernachlässigung dabei liegt in der für das ganze Jahr konstanten Annahme des für 1909,5 berechneten Perigäums der Mondbahn: $F' = 0^\circ 55'$.

In der Tafel Seite 390—399 sind die Mondglieder mit den Reduktionskonstanten vereinigt worden. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werte einer der vier Konstanten A , B , C , D durch Null gehen, neben den logarithmischen Angaben die Numeri der betreffenden Konstante beigesetzt. Im übrigen gilt hinsichtlich der Einrichtung der Tafel dasselbe, was oben über den Gebrauch der Tafel Seite 377 gesagt wurde.

12) Sonnen- und Mondfinsternisse.

Die Sonnenfinsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnenfinsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsergebnisse durchgängig beibehalten worden, so daß es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hilfe der auf Seite 403 und 406 gegebenen Hansenschen Elemente der Sonnenfinsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzkurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ , oder von Greenwich . . . $\lambda_0 = \lambda + 13^\circ 23' 7''$ und durch seine geographische Breite φ .

Man bilde zuerst $\tan \varphi_1 = (1 - c) \tan \varphi$, wo c die Abplattung der Erde ist, also $\log(1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$

$$\eta = (1 - c) \sin \varphi_1.$$

Hierauf muß man für die Epoche des fraglichen Phänomens, sei es nun erste und letzte äußere oder innere Berührung oder größte Phase, einen Näherungswert der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuchs, insbesondere die eventuelle Angabe der Epochen des Eintritts der größten Phase auf der Zentrallinie zu Rate ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswert der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geozentrischen größten Phase ist. (Siehe Elemente der Finsternis.)

Sei der Näherungswert der Ortszeit t_0 , so bilde man mit Hilfe der in dem Elementenverzeichnis des Jahrbuchs gegebenen Werte von $\gamma, \mu, n, u', f, \delta', g, G, k, K$, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_0 - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin(G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos(K + t_0)$$

$$m' \sin M' = -x \xi \sin g \cos (G+t_0)$$

$$m' \cos M' = n - x \xi \sin k \sin (K+t_0)$$

$$u_0 = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_0) \operatorname{tang} f$$

$$\text{wo} \quad x = \frac{15 \cdot 3600}{206265} \quad \lg x = 9.41797.$$

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i , für äußere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_0} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_0}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Wert von $\cos \chi'$ sich ergibt, zwei Werte von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werte von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ , μ , n , u' , f , δ' , g , G , k , K mit den wahren Berliner Zeiten $t - \lambda$ aus dem Elementenverzeichnis zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$

$$m' \sin M' = -x' \xi \sin g \cos [G + \frac{1}{2} (t_0 + t)]$$

$$m' \cos M' = n - x' \xi \sin k \sin [K + \frac{1}{2} (t_0 + t)]$$

$$u = u_0 + x' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2} (t_0 + t) \frac{(t - t_0)}{15}$$

$$\text{wo} \quad x' = 30 \cdot \frac{\sin \frac{1}{2} (t - t_0)}{t - t_0};$$

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m , m' , M , M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werte t sind meistens schon genau genug die wahren Ortszeiten des gesuch-

ten Eintritts oder Austritts, und die Positionswinkel (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rektascensionen oder nach Osten hin gezählt) der Eintritts- und Austrittspunkte sind mit den beiden Werten von χ' , die der Sinus ergibt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementenverzeichnis zu entnehmen ist.

Um die Zeit der größten Phase zu berechnen, kann man zunächst die Werte t_0, m, m', M, M' aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos(M + M').$$

Mit dem so gefundenen Werte t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werte der Elemente und berechnet damit in zweiter Annäherung die Werte m, m', M, M' , indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Wert der Ortszeit der größten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos(M + M')$$

und zur Kontrolle für diese Zeit $M + M' = 90^\circ$ oder $= 270^\circ$, je nachdem der Mondmittelpunkt nördlich oder südlich vom Sonnenmittelpunkt vorbeigeht.

Zur Bestimmung der Größe der Verfinsternung hat man zugleich:

$$u = m,$$

welcher Wert bei zentraler Verfinsternung $= 0$ wird.

Die Größe in Teilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_s - u}{u'_s - u'_t} \dots$$

Zu den Angaben über die Mondfinsternisse (Seite 402 und 405) sei bemerkt, daß als Vergrößerungsfaktor des Erdschattens $\frac{1}{50}$ angenommen ist.

13) Sternbedeckungen durch den Mond.

Bei den Sternbedeckungen findet man zunächst (Seite 407 und 408) ein Verzeichnis derjenigen helleren Sterne (bis zur 5.5. Größe), welche im Laufe des Jahres 1909 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Größenangaben der nicht in dem Verzeichnis der mittleren Sternörter des Jahrbuchs enthaltenen Sterne beruhen zum größten Teil auf den Schätzungen von Argelander und Heifs, in einzelnen wenigen Fällen sind außerdem für diese Angaben die Schätzungen Goulds benutzt; die mittleren Örter sind nach den Angaben verschiedener Kataloge mit Berücksichtigung der Eigenbewegung auf 1909.0 reduziert.

Hierauf folgen in den zweispaltigen Seiten 409—415 die Hilfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Kolumne die Nr. des Sterns, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Kolumne die Zeit der geozentrischen Konjunktion in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Kolumne die Werte folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \quad p' = \frac{\Delta\alpha \cdot \cos \delta}{\pi} \quad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Dezimale.

In diesen Ausdrücken bedeutet:

δ die geozentrische Deklination des Mondes für die geozentrische Konjunktionszeit T .

D die Deklination des Sterns.

π die Äquatorial-Horizontal-Parallaxe des Mondes (bezw. vermindert um die Parallaxe des Planeten bei Planetenbedeckungen) für die geozentrische Konjunktionszeit T .

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geozentrischen Rektascension und Deklination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlerer Zeit, gültig für die Konjunktionszeit T .

Nennt man ferner die geozentr. AR. des Mondes zur Zeit $T \dots \alpha$, die AR. des Sterns $\dots A$, den geozentr. scheinbaren Halbmesser des Mondes $\dots r$, die Längendifferenz des Beobachtungsortes gegen Berlin $\dots d$ (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes $\dots \mu$, seine geozentrische Breite $\dots \varphi'$, seinen geozentrischen Radius vector in Teilen des Radius des Äquators $\dots \rho$; setzt man endlich (nach J. Peters *Astron. Nachr.* 3297)

$$\frac{r}{\pi} = k = 0.2725, \quad \log k = 9.4354$$

$$\text{und } \log(15 \cdot 3609.9 \sin 1'') = \log \lambda = 9.41916,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werten gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessels Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A) \cos \delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \rho \cos \varphi' \sin(\mu - A)$$

$$v = \rho \sin \varphi' \cos D - \rho \cos \varphi' \cos(\mu - A) \sin D$$

$$u' = \lambda \rho \cos \varphi' \cos (\mu - A) = \left(\frac{du}{dt} \right)$$

$$v' = \lambda \rho \cos \varphi' \sin (\mu - A) \sin D = \left(\frac{dv}{dt} \right)$$

$$m \sin M = p - u \qquad n \sin N = p' - u'$$

$$m \cos M = q - v \qquad n \cos N = q' - v'$$

(*m* und *n* stets positiv)

$$\tau = - \frac{m}{n} \cos (M - N).$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sterns werden dann gefunden, wenn noch $\cos \psi = \frac{m \sin (M - N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist:

$$T_1 = T + d + \tau - \frac{k}{n} \sin \psi \qquad T_2 = T + d + \tau + \frac{k}{n} \sin \psi.$$

Die Örter des Eintritts und Austritts an der Mondscheibe in dem auf Seite 595 erläuterten Positionswinkel-Ausdruck sind:

$$Q_1 = N - 90^\circ + \psi \qquad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indes von der Wahrheit sehr entfernt sein können, wenn die Korrektion τ , welche zu der Ortszeit der geozentrischen Konjunktion hinzugefügt werden muß, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes groß ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von u und v durch die ersten Differentialquotienten u' und v' bei der starken Änderung des Winkels $(\mu - A)$ nicht mehr genügend, sondern man muß jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \mu_0 = \mu + \tau + \varepsilon \qquad t = \mu_0 - A$$

(wo ε die Reduktion des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$u = \rho \cos \varphi' \sin t$$

$$v = \rho \sin \varphi' \cos D - \rho \cos \varphi' \sin D \cos t$$

$$u' = \lambda \rho \cos \varphi' \cos t$$

$$v' = \lambda \rho \cos \varphi' \sin D \sin t.$$

Berechnet man mit diesen Werten

$$\Delta \tau = - \frac{m}{n} \cos (M - N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Örter des Eintritts und Austritts zu finden, wie oben:

$$\cos \psi = \frac{m \sin(M-N)}{k}$$

$$T_1 = T + d + \tau + \Delta\tau - \frac{k}{n} \sin \psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergibt, wird es aber nicht nötig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n} \cos(M-N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Konvergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \dots$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswert 0.5646 annimmt, läßt sich der Ausdruck

$$\tau = \frac{\rho \cos \varphi' \sin(\mu - A)}{0.5646 - \lambda \rho \cos \varphi' \cos(\mu - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\mu - A)$ in eine Hilfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Wert von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Korrektion τ in Minuten ausgedrückt zu finden, kann die Tafel Seite 599 mit dem Horizontalargument φ' und dem Vertikalargument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Kolonnen der Mondephemride, welche »Mond im Meridian« überschrieben sind, von Nutzen sein können.

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnis häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austritts nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintritts zu dem des Austritts dem Mondmittelpunkt nahe liegt, so müßte der Unterschied der Parallaxe für Berlin und den anderen Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geozentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
0°	0	0	0	0	0	0	0	0	0	0	0°
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
I 0	50	49	47	43	38	32	26	21	15	10	I 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

Nach den Angaben der Mondephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M), seine Deklination (δ) und die Deklination der Sonne. Nachdem man dann ($T + d$) gebildet, wird man mit Hilfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Eintritt und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergrößerung des Tagbogens durch die Bewegung des Mondes und auf dessen Parallaxe ist vorläufig hierbei keine Rücksicht geboten, da deren Wirkungen in ihren mittleren Werten mittelst der Tafel Seite 599 durch τ berücksichtigt werden.

Aus vorstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswert für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genähernten Wert von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos \varphi' \sin D (1 - \cos t) ^*).$$

2) Ist nun $q_0 - v < k$ ($k = 0.27$), so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so muß, wenn $q_0 - v$ dem Werte von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indes schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Wert von τ dem wahren Werte von τ sehr nahe kommt, größer oder kleiner ist. Man wird nämlich leicht entscheiden können, ob ($q' - v$) sehr klein, positiv oder negativ wird, das Zeichen von ($q_0 - v$) ist in den erwähnten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Wert von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie größer als $\cos \varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind ($q_0 - v$) und ($q' - v'$) gleichnamig (beide positiv oder beide negativ), so muß $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so muß $\tau p' - u$ positiv, ist ($q' - v'$) sehr klein (also das Vorzeichen noch unbestimmt), so muß $\tau p'$ nahe gleich u werden, wonach man den Tafelwert von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 416 enthält die Vorausberechnung der Sternbedeckungen für Berlin.

*) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werte von $\sin(\varphi' - D)$ und 2 Werte von $\cos \varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

14) Jupiterstrabanten.

Auf die Sternbedeckungen folgen Seite 417—422 die Erscheinungen der vier älteren Jupiterstrabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man ihren Ort, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann; sodann die Zeitangaben für die Verfinsterungen der Trabanten in dem Schattenkegel des Jupiter, welche von ihrem Stande gegen die Sonne abhängen. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äußeren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung unmittelbar beobachten kann.

Für den geozentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Konjunktion des Trabanten mit der Erde, oder die Zeit, wann Jupiter sich in einer auf die Ebene der Trabantenbahn senkrecht gelegten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten sind in den Jahrbüchern bis zum Jahrgang 1871 Hülftafeln gegeben, welche für die mittlere synodische Umlaufzeit die Abscissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben. Die Achse der Abscissen liegt senkrecht auf der Konjunktionsebene, beide Koordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Koordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Achse in der Konjunktionsebene liegt, so daß die Abscissen ungeändert bleiben, die Ordinaten aber in dem Verhältnis der halben kleinen zur halben großen Achse vermindert werden müssen. Dieses Verhältnis, und zwar $\frac{b}{a}$, ist neben den Zeiten der oberen Konjunktion angesetzt. Wünscht man nun für eine Zeit T , welche zwischen zwei auf einander folgende Zeiten t und t' der oberen Konjunktion fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hülftafeln ein, nimmt daraus die entsprechenden Werte von x und y' , und hat damit in Halbmessern des Jupiter den Stand des Trabanten in Bezug auf den Mittelpunkt des Jupiter gegeben durch

$$x \text{ und } y = y' \frac{b}{a},$$

wobei man die Zeichen von x , y' und $\frac{b}{a}$ zu berücksichtigen hat. Das Zeichen der letzten Größe deutet an, welche Fläche der Trabantenbahn

man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $\frac{b}{a}$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, daß für Berlin zur Zeit der Kulmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Zentrum des Jupiter gezogen werden kann.

Man könnte hier mit Leichtigkeit noch eine kleine Korrektion anbringen, wenn die Zwischenzeiten zweier auf einander folgenden oberen Konjunktionen beträchtlich von der mittleren synodischen Umlaufszeit verschieden wären. Wäre die letztere T' , so würde man mit dem Argument

$$(T - t) \frac{T'}{T' - T}$$

eingehen müssen. Ebenso findet man die Vorübergänge der Trabanten vor der Jupiterscheibe durch die Zeiten der unteren Konjunktion, das Mittel aus den oberen, und die Ein- und Austritte der Trabanten in die Jupiterscheibe durch die Zeiten, zu denen

$$\sqrt{x^2 + y^2} = 1,$$

wobei man von der elliptischen Gestalt des Jupiter absieht. Indessen sind diese letzteren Momente nur als beiläufige Näherungen zu betrachten, da für diese feineren und genaueren Bestimmungen die Tafeln sich nicht einfach genug einrichten ließen, und aus gleichem Grunde wird die erst-erwähnte Verbesserung wegen des Unterschiedes zwischen der wahren und mittleren synodischen Umlaufszeit unnötig sein.

Statt auf die in den früheren Jahrbüchern gegebenen Elongationstafeln zurückzugreifen, kann man auch leicht die Koordinaten der Trabanten aus den folgenden Formeln berechnen:

$$\left. \begin{aligned} x &= (0.7559) \sin [203^\circ.40. t] \\ y' &= (0.7559) \cos [203^\circ.40. t] \end{aligned} \right\} \text{Trabant I.}$$

$$\left. \begin{aligned} x &= (0.9576) \sin [101^\circ.29. t] \\ y' &= (0.9576) \cos [101^\circ.29. t] \end{aligned} \right\} \text{Trabant II.}$$

$$\left. \begin{aligned} x &= (1.16017) \sin [50^\circ.235. t] \\ y' &= (1.16017) \cos [50^\circ.235. t] \end{aligned} \right\} \text{Trabant III.}$$

$$\left. \begin{aligned} x &= (1.40552) \sin [21^\circ.488. t] \\ y' &= (1.40552) \cos [21^\circ.488. t] \end{aligned} \right\} \text{Trabant IV.}$$

wo t die seit der letzt vorangehenden oberen Konjunktion verfllossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen

Logarithmen bedeuten. Die zu Grunde gelegten Werte der mittleren Entfernungen vom Jupiterszentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufzeiten sind beziehungsweise:

Trabant I.	5.70	|	1 ^d	18 ^h	28 ^m .6
› II.	9.07	|	3	13	17 .9
› III.	14.46	|	7	3	59 .6
› IV.	25.44	|	16	18	5 .1

Die Angaben für die Jupiterstrabanten sind nach den Tafeln von Damoiseau und deren Fortsetzung von Pottier berechnet.

Über die Verbesserungen, deren die Damoiseauschen Tafeln und die danach berechneten Verfinsterungen der Trabanten bedürftig sind, ist in dem Jahrbuche für 1880 näheres an dieser Stelle mitgeteilt worden.

15) Saturnsring.

Auf den Seiten 423 und 424 stehen die Angaben für die scheinbare Gröfse des Saturn und für die Lage und Gröfse des Saturnsringes, deren Bedeutung folgende ist:

- a* Gröfse Achse des Saturn.
- β* Scheinbare kleine Achse des Saturn.
- p_a* Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.
- a* Gröfse Achse der Ringellipse.
- b* Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.
- U'* Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.
- B'* Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- I'* Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Breitenkreise; östlich positiv, westlich negativ.
- U* Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.
- B* Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, westlich negativ.
- I* Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise; östlich positiv, westlich negativ.

	1909	Juli 8	Okt. 4	Dez. 31		
N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an	} $126^{\circ} 46'.4$	} $126^{\circ} 46'.7$	} $126^{\circ} 47'.4$			
J Neigung der Ringebene gegen den Erdäquator				} $6 53.3$	} $6 53.2$	} $6 53.1$
ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene							} $42 36.6$	} $42 36.4$	} $42 35.9$

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial $17''.47$

Polar 15.65

Lage des Saturnsrings gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^{\circ} 57'.0 \quad \text{und} \quad i_1 = 28^{\circ} 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2R = 39''.35.$$

Will man statt der Struveschen Werte für die Durchmesser des Saturn diejenigen Werte, welche Bessel in Band 12 der *Astron. Nachr.* abgeleitet hat, verwenden, nämlich:

den Äquatorialdurchmesser = $17''.053$

den Polardurchmesser = 15.381

in der Entfernung, deren Logarithmus = 0.9796480 ,

so braucht man die Größen α und β der Ephemeride nur mit den Zahlen 0.9761 bezüglich 0.9828

zu multiplizieren.

16) Saturnstrabanten.

Die Seiten 425 bis 454 enthalten die Angaben über die Saturnstrabanten. Alle Berechnungen für dieselben sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den *»Observations de Poulkova«*;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI, abgeleiteten und in folgendem kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr Prof. H. Struve handschriftlich mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Mimas

(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$$\begin{aligned} E_s &= 127^\circ 19'.0 \\ n &= 381^\circ.9945 \\ \delta l &= -44^\circ.243 \sin(116^\circ.46 + 5^\circ.075 t) \\ &\quad - 0^\circ.75 \sin 3(116^\circ.46 + 5^\circ.075 t) \\ l_1 &= E_s + nt_a + \delta l \\ \Theta &= 54^\circ.7 - 365^\circ.3 t \\ \gamma &= 1^\circ 36'.5 \\ \Pi_1 &= 107^\circ.2 + 365^\circ.3 t \\ e &= 0.0190 \\ a &= 26''.814 \end{aligned}$$

Enceladus

(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$$\begin{aligned} E_s &= 199^\circ 19'.8 \\ n &= 262^\circ.73199 \\ \delta l &= + 11'.24 \sin(143^\circ + 92^\circ.4 t) \\ &\quad + 20'.0 \sin(75^\circ + 29^\circ.3 t) \\ l_1 &= E_s + nt_a + \delta l \\ \Theta &= 328^\circ - 152^\circ.7 t \\ \gamma &= 1'.4 \\ \Pi_1 &= 308^\circ.38 + 123^\circ.43 t \\ e &= 0.0046 \\ a &= 34''.401 \end{aligned}$$

Tethys

(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$$\begin{aligned} E_s &= 284^\circ 31'.0 \\ n &= 190^\circ.69795 \\ \delta l &= + 118'.90 \sin(116^\circ.46 + 5^\circ.075 t) \\ &\quad + 2'.02 \sin 3(116^\circ.46 + 5^\circ.075 t) \\ l_1 &= E_s + nt_a + \delta l \\ \Theta &= 110^\circ.55 - 72^\circ.5 t \\ \gamma &= 1^\circ 4'.36 \\ e &= 0.0000 \\ a &= 42''.586 \end{aligned}$$

Dione

(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$$\begin{aligned} E_s &= 253^\circ 51'.4 \\ n &= 131^\circ.534955 \\ \delta l &= - 1'.21 \sin(143^\circ + 92^\circ.4 t) \\ &\quad - 2'.13 \sin(75^\circ + 29^\circ.3 t) \\ l_1 &= E_s + nt_a + \delta l \\ \Theta &= 276^\circ - 31^\circ.0 t \\ \gamma &= 4'.0 \\ \Pi_1 &= 165^\circ + 31^\circ.0 t \\ e &= 0.0020 \\ a &= 54''.543 \end{aligned}$$

Rhea

(II, Seite 176).

Epoche: 1889 April 0.0 mittl. Greenw. Zeit.

$$\begin{aligned} E_s &= 358^\circ 23'.8 \\ n &= 79^\circ.690087 \\ E - E_s &= + 4'.95 \sin(347^\circ.3 - 10^\circ.1 t) \\ l &= E_s + nt_a + (E - E_s) \\ (\delta\Omega - \delta\Omega_1) \sin i_1 &= 19'.77 \sin(347^\circ.3 - 10^\circ.1 t) - 0'.38 \\ &\quad + 1'.00 \sin(48^\circ.5 - 0^\circ.50 t) \\ i - i_1 &= 19'.77 \cos(347^\circ.3 - 10^\circ.1 t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50 t) \\ \Pi &= 305^\circ + 10^\circ.1 t \\ e &= 0.0009 \\ a &= 76''.170 \\ \delta\Omega_1 \text{ und } i_1 &\text{ bezeichnen die Lage des Saturnsringes.} \end{aligned}$$

Titan

(II, Seite 172).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$\begin{aligned}
 E_0 &= 260^\circ 25'.1 \\
 n &= 22^\circ.577009 \\
 E - E_0 &= + 4'.05 \sin(47^\circ.8 - 0^\circ.51 t) \\
 l &= E_0 + n t_a + (E - E_0) \\
 \delta &= 167^\circ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506 t) + 0'.837 t \\
 i &= 27^\circ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506 t) \\
 \Pi &= 276^\circ 15' + 31'.7 t + 22'.0 (\sin 2g - \sin 2g_0) \\
 e &= 0.02886 + 0.000186 (\cos 2g_0 - \cos 2g) \\
 g &= \Pi - \delta - 4'.5 \\
 g_0 &= g \text{ für } t = 0 \\
 a &= 176''.578
 \end{aligned}$$

Hyperion

(II, Seite 290).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$\begin{aligned}
 E_0 &= 304^\circ.53 \\
 n &= 16^\circ.919983 \\
 \delta l &= 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206 t_a) \\
 l &= E_0 + n \cdot t_a + \delta l
 \end{aligned}$$

Äquinoktium: 1890.0. Epoche: 1890.0 + t.

$$\begin{aligned}
 \delta &= 167^\circ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50 t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0 t) \\
 i &= 27^\circ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50 t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0 t)
 \end{aligned}$$

Epoche und Äquinoktium: 1888.890 + t.

$$\begin{aligned}
 \Pi &= 276^\circ.50 - 18^\circ.663 t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191 t) \\
 &\quad - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382 t) \\
 e &= 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191 t) + \delta e \\
 \delta e &= -0.00044 \cos(200^\circ.5 + 0^\circ.56206 t_a) \\
 a &= 213''.92 + \delta a \\
 \delta a &= -0.00354 a \cos(200^\circ.5 + 0^\circ.56206 t_a)
 \end{aligned}$$

Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 mittl. Greenw. Zeit.

$$\begin{aligned}
 E_0 &= 75^\circ 26'.4 & i &= 18^\circ 28'.3 - 0'.54 t \\
 n &= 4^\circ.537997 & \Pi &= 354^\circ 30' + 7'.9 t \\
 l &= E_0 + n \cdot t_a & e &= 0.02836 + 0.000015 t \\
 \delta &= 142^\circ 12'.4 - 1'.48 t & a &= 514''.59
 \end{aligned}$$

- l, l = Mittlere Länge in der Bahn
 n = Tropische mittlere tägliche Bewegung
 δl = Libration
 t_a = Anzahl der Tage seit der Anfangsepocho
 t = Anzahl der Jahre seit der Anfangsepocho
 Θ = Knoten auf dem Saturnsäquator
 Ω = Knoten auf der Ekliptik
 γ = Neigung der Trabantenbahn gegen den Saturnsäquator
 i = Neigung der Trabantenbahn gegen die Ekliptik
 Π_1, Π = Perisaturnium
 e = Exzentrizität
 a = Halbachse der Trabantenbahn in der mittleren Entfernung
 $(e) = 9.53887$

l, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 425 bis 435 die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X -Achse parallel der großen Achse des Ringes verläuft, positiv wenn östlich, negativ wenn westlich vom Saturn, und dessen positive Y -Achse mit dem durch den Saturnmittelpunkt gehenden Deklinationskreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U);$$

Die Größen U und B sind Seite 424 zu entnehmen. $(e) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, ρ ist die Entfernung Erde—Saturn, $u = L + (v-M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u-U) + \sin \gamma \cotg B \sin(u-\theta)];$$

hierin bezeichnet θ die Länge des aufsteigenden Knotens der Trabantenbahn

auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator; ϑ ergibt sich aus:

$$\vartheta = \Theta - \delta\delta_1 + \omega$$

$$\text{für Tethys ist } \frac{r}{a} = 1.$$

Will man aus x und y noch Rektascensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_r - \alpha_{pt} = \frac{x}{15} s \sin p \sec \delta_r$$

$$\Delta\delta = \delta_r - \delta_{pt} = s \cos p.$$

Auf den Seiten 436 bis 444 finden sich für die drei äußeren Trabanten Titan, Hyperion und Japetus, außer den Hilfsgrößen U , B und P , die Rektascensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantörter sind wahr.

Zum Schluss enthalten die Seiten 445—454 die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten, für die oberen und unteren Konjunktionen von Japetus mit Saturn und für die im Jahre 1909 stattfindenden Verfinsterungen der Trabanten.

Die Berechnung der Verfinsterungen ist nur genähert durchgeführt. Die Hauptvernachlässigung besteht darin, daß für die Bildung des vom Saturn ausgehenden Kernschattens die Kugelgestalt des Planeten angenommen wurde.

Die Zeitangaben für die Elongationen, Konjunktionen und Verfinsterungen sind bereits für Aberration korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

17) Konstellationen.

In der Übersicht der Konstellationen des Jahres 1909 (Seite 455 und 456) sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Größe, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis 2. Größe) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Konjunktionen der Planeten mit dem Mond und untereinander sind als Konjunktionen in AR. zu verstehen. Die Epochen der größten Helligkeit der Venus sind nach derjenigen Formel für die Lichtstärke, welche G. Müller in der *Publikation des Astro-*

phys. Observatoriums zu Potsdam, Bd. VIII, Seite 197 ff. gegeben hat, berechnet.

Als Abkürzungen sind in dieser Übersicht folgende gebraucht:

♈ Widder.	☉ Sonne.	
♉ Stier.	☾ Mond.	
♊ Zwillinge.	☿ Merkur.	♌ Konjunktion.
♋ Krebs.	♀ Venus.	□ Quadratur.
♌ Löwe.	♁ Erde.	♍ Opposition.
♍ Jungfrau.	♂ Mars.	
♎ Wage.	♃ Jupiter.	♎ Aufsteigender } Knoten.
♏ Skorpion.	♄ Saturn.	♏ Niedersteigender }
♐ Schütze.	♅ Uranus.	
♑ Steinbock.	♆ Neptun.	
♒ Wassermann.		
♓ Fische.		

18) Hülftafeln.

Es folgt eine Reihe von häufig gebrauchten Hülftafeln.

1) Die Tafel zur Berechnung der *physischen Mondlibration* (Seite 457). Die zur Berechnung der *physischen Mondlibration* dienenden Ausdrücke sind auf Seite 457 vollständig gegeben. Sie beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten) einzusehen ist.

2) Die Tafel zur Berechnung der *optischen Mondlibration* (Seite 458 und 459) reproduziert (mit $J = 1^{\circ} 32' 6''$ berechnet) die bekannte Enckesche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenographischer Länge und Breite nach den Formeln, die auf Seite 459 vollständig aufgeführt sind. Hierbei scheint die Kenntnis der wahren Längen und Breiten des Mondes notwendig zu sein, welche im Jahrbuch vermisst werden; indessen werden die Längen und Breiten zu diesem Zweck mit merklichem Vorteil aus der mit Hinzufügung der Parallaxe berechneten AR. und Dekl. abgeleitet, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht größere Genauigkeit erfordert wird, der Enckeschen Hülftafel in der Veröffentlichung Nr. 14 des Recheninstituts bedienen kann.

3) Eine Tafel mit Angabe der Bruchteile des tropischen Jahres, die den nebenstehenden mittleren Daten (\odot Mittl. Zeit Berlin) entsprechen. (Seite 460 und 461.)

4) Eine Tafel für die *Ermittelung eines Datums in der julianischen Periode*. (Seite 462 und 463.)

5) Die Hülftafeln zur Verwandlung von mittlerer Zeit und Sternzeit (Seite 464 und 465).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (Seite 466 und 467).

7) Eine Tafel mit Angabe der Hilfsgrößen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1909.0 (Seite 468).

19) Koordinaten der Sternwarten.

Die Seiten 469 bis 475 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermaßen sicher ermitteln ließen; zumeist sind sie dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von $\log \varrho$ sind sie berücksichtigt.

Die geozentrischen Koordinaten sind nach den Besselschen Erddimensionen berechnet.

Die Kolumne »Korrektion der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Mittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnis hat im vorliegenden Jahrgang Änderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Amherst (Neue Stw.)	nach brieflicher Mitteilung.
Heidelberg	nach »Bestimmung der Längendifferenz zwischen der Großherzoglichen Sternwarte bei Heidelberg und der Kaiserlichen Universitäts-Sternwarte in Straßburg i. Els. E. Becker, W. Valentiner«.
Karlsruhe (Pass.-Instr.)	nach »Mitteilungen der Großherzoglichen Sternwarte zu Heidelberg (Astronomisches Institut) IX. W. Valentiner«.
Madison	nach brieflicher Mitteilung durch Dir. George C. Comstock.
Tortosa	nach <i>Comptes Rendus</i> Bd. 141 p. 818.

20) Bahnelemente der kleinen Planeten.

Die Seiten 476—505 enthalten die Bahnelemente der kleinen Planeten nach den neuesten der Redaktion bekannt gewordenen Bestimmungen.

Die unmittelbar den Namen folgenden Kolumnen geben auch das Datum der Opposition im Jahre 1907 und die GröÙe zur Zeit derselben.

Ferner sind gegeben zwei Kolumnen m_0 und g , welche zur Berechnung der GröÙe des Planeten dienen. Es bedeutet m_0 die mittlere GröÙe, d. h. diejenige GröÙe, welche der Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde; ferner ist g eine GröÙe, welche aus m_0 nach der Formel

$$g = m_0 - 5 \cdot \log a (a - 1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geozentrischen Ort des Planeten seine GröÙenklasse M zu berechnen. Ist Δ die Entfernung des Planeten von der Erde, r seine Entfernung von der Sonne, so ist seine GröÙe

$$M = g + 5 (\log \Delta + \log r).$$

21) Oppositionsdaten der kleinen Planeten.

Von den 451 im Jahre 1907 und zu Anfang des Jahres 1908 stattfindenden Oppositionen der kleinen Planeten (1)–(569) ist Seite 508–519 eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse ist neben dem Namen des Planeten der Tag der Opposition in AR., die GröÙe, der genäherte geozentrische Ort, die tägliche Bewegung an jenem Tage, der Logarithmus der Entfernung des Planeten von der Erde und außerdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 33 Planeten, welche in dem Oppositionsverzeichnis durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten 520–552 ausführliche Ephemeriden; für etwa 70 weitere Planeten, deren Beobachtung im Jahre 1907 erwünscht erscheint, sind genäherte Oppositionsephemeriden in den Veröffentlichungen des Recheninstitutes Nr. 31 und 32 gegeben.

22) Ausführliche Oppositionsephemeriden.

Diese Ephemeriden (Seite 520–552), die neben der Erleichterung der Beobachtungen einer künftigen Theorie der entsprechenden Planeten zur Grundlage dienen sollen, sind zum größten Teil im Recheninstitut berechnet, nur die Ephemeriden von (82) Alkmene und (288) Glauke sind von Herrn Dr. W. Luther, die Ephemeride von (24) Themis von Herrn Dr. E. Strömgren und die Ephemeride von (433) Eros von Herrn Dr. G. Witt der Redaktion gütigst zur Verfügung gestellt worden. Für die Lichtzeit ist hierbei angenommen: 498^s.4.

23) Nachweisungen über die kleinen Planeten.

Das die Nachweisungen über die kleinen Planeten enthaltende Verzeichnis (Seite 553—578) gibt in zwei Abschnitten eine Übersicht der Stellen in den verbreitetsten Publikationsmitteln, wo A. Beobachtungen, B. Berechnungen in bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Übersicht umfaßt Band 169, S. 273 bis Band 172, S. 288 einschl. der *Astronomischen Nachrichten* (bezeichnet mit A. N.), das *Bulletin Astronomique* Band 22, S. 385 bis Band 23, S. 352 (bezeichnet mit B. A.), das *Astronomical Journal* Band 24, S. 207 bis Band 25, S. 102 (bezeichnet mit A. J.), die *Publications of the Astronomical Society of the Pacific* Band 17, S. 141 bis Band 18, S. 288 (bezeichnet mit P. P.), die *Mitteilungen der Nicolai Hauptsternwarte zu Pulkowo* Band 1, S. 59—152 (bezeichnet mit M. P.) und die Separatabdrücke aus dem *Bulletin de l'Académie Impériale des Sciences de St. Pétersbourg* (bezeichnet mit B. P.). Die angenommenen Grenzen dieser Übersicht entsprechen (mit Ausnahme der letztgenannten Publikation) den Zeitgrenzen der Publikation 1905 Okt. 1 bis 1906 Okt. 1.

Zur Statistik der kleinen Planeten im Jahre 1906.

Seit dem Erscheinen des letzten Jahrbuches sind bis Ende Dezember 1906 folgende 32 neue Planeten entdeckt, bzw. als solche erkannt worden, welche zu der Gruppe zwischen Erde und Jupiter gehören:

570 QX	entdeckt 1905	Juli 30	von	Wolf	} Königstuhl.
571 QZ	»	» Sept. 4	»	Götz	
572 RB	»	» Sept. 19	»	Götz	
573 RC	»	» Sept. 19	»	Wolf	
574 RD	»	» Sept. 19	»	Wolf	
575 RE	»	» Sept. 19	»	Götz	
576 RF	»	» Sept. 22	»	Götz	
577 RH	»	» Okt. 20	»	Wolf	
578 RZ	»	» Nov. 1	»	Wolf	
579 SD	»	» Nov. 3	»	Kopff	
580 SE	»	» Dez. 17	»	Wolf	
581 Tauntonia	»	» Dez. 24	»	Metcalf, Taunton, Mass.	
582 SO	»	1906 Jan. 23	»	Kopff, Königstuhl.	
583 SP	»	» Jan. 0	»	Palisa, Wien.	

584	<i>SY</i>	entdeckt 1906	Jan. 15	von	} Kopff	}		
585	<i>TA</i>	»	»	Febr. 16			»	
586	<i>TC</i>	»	»	Febr. 21			»	
587	<i>TF</i>	»	»	Febr. 22			} Wolf	
588	<i>TG</i>	»	»	Febr. 22				
589	<i>TM</i>	»	»	März 3			Kopff	
590	<i>TO</i>	»	»	März 4			Wolf	
591	<i>TP</i>	»	»	März 14			Kopff	} Königstuhl.
592	<i>TS</i>	»	»	März 18			Wolf	
593	<i>TT</i>	»	»	März 20			Kopff	
594	<i>TW</i>	»	»	März 27	Wolf			
595	<i>TZ</i>	»	»	März 27	} Kopff			
596	<i>UA</i>	»	»	Febr. 21				
597	<i>UB</i>	»	»	April 16	} Wolf			
598	<i>UC</i>	»	»	April 13				
599	<i>UJ</i>	»	»	April 25	} Metcalf, Taunton, Mass.			
600	<i>UM</i>	»	»	Juni 14				
601	<i>UN</i>	»	»	Juni 21		Wolf, Königstuhl.		

Außer den genannten sind noch nahezu 90 bisher anscheinend unbekannte Planeten gefunden, für welche zum Teil Bahnrechnungen wegen unzureichenden Beobachtungsmaterials nicht ausführbar, zum Teil die Rechnungen noch nicht abgeschlossen sind.

Unter den 601 jetzt bekannten kleinen Planeten sind im gegenwärtigen Zeitpunkte (Mitte März 1907), soviel der Redaktion bekannt geworden ist,

398 Planeten, welche in mindestens 4 Oppositionen beobachtet sind, nämlich die Planeten (1) bis (289) mit Ausnahme von (99), (132), (155), (157), (188), (193), (220), (260), (272), (280), (281), (285), (290), (293), (294), (296), (299), (302), (307), (309), (310), (314), (315), (316), (319), (320), (323), (327), (328), (330), (353), (355), (357), (361), (365), (367), (368) und (370) und außerdem:

(393) Lampetia	(416) Vaticana	(439) Ohio	(462) Eriphyla
(394) Arduina	(417) Suevia	(442) Eichsfeldia	(470) Killa
(397) Vienna	(419) Aurelia	(443) Photographica	(475) Oculo
(401) Ottilia	(420) Bertholda	(444) Gypsis	(478) Tergeste
(402) Chloë	(423) Diotima	(446) Aeternitas	(482) Petrina
(403) Cyane	(424) Gratia	(447) Valentine	(483) Seppina
(404) Arsinoë	(425) Cornelia	(449) Hamburga	(484) Pittsburghia
(405) Thia	(429)	(451) Patientia	(487) Venetia
(407) Arachne	(432) Pythia	(454) Mathesis	(498) Tokio
(409) Aspasia	(433) Eros	(455) Bruchsalia	(505) Cava
(412) Elisabetha	(434) Hungaria	(456) Abnoba	(511) Davida
(415) Palatia	(435) Ella	(458) Hercynia	

46 Planeten, welche in 3 Oppositionen beobachtet sind, nämlich:

(260) Huberta . . . 18	(406) Erna 10	(481) Emita 4
(272) Antonia . . . 15	(411) 9	(485) Genua 4
(281) Lucretia . . . 13	(418) Alemannia . . . 8	(491) Carina 4
(294) Felicia . . . 14	(421) Zähringia . . . 8	(500) Selinur 4
(299) Thora 13	(426) 8	(502) Sigune 4
(302) Clarissa . . . 13	(437) 7	(503) Evelyn 4
(307) Nike 13	(438) 7	(504) Cora 4
(314) Rosalia . . . 13	(440) Theodora . . . 6	(508) 4
(328) Gudrun . . . 13	(445) Edna 7	(509) Iolanda 4
(361) Bononia . . . 13	(453) 5	(514) Armida 3
(365) Corduba . . . 11	(460) Scania 5	(516) Anherstia . . . 3
(367) Amicitia . . . 10	(472) Roma 5	(520) Franziska . . . 3
(370) Modestia . . . 10	(476) Hedwig 4	(521) Brixia 3
(390) Alma 11	(477) Italia 5	(532) Herculina . . . 3
(391) Ingeborg . . . 10	(480) Hansa 5	* (537) 3
(399) Persephone . . 10		

51 Planeten, welche nur in 2 Oppositionen beobachtet sind, nämlich:

(157) Dejanira . . . 24	(467) Laura 5	(533) 3
(188) Menippe . . . 23	(468) Lina 6	(535) 3
(280) Philia 15	(471) Papagena . . . 5	(536) Merapi 3
(296) Phaëtusa . . . 12	(479) Caprera 5	(539) Pamina 2
(319) Leona 13	*(488) Kreusa 4	(541) Deborah 3
(327) Columbia . . . 12	(490) Veritas 4	*(542) Susanna 2
(355) Gabriella . . . 11	(492) Gismonda . . . 4	(543) Charlotte 2
(395) Delia 10	(494) Virtus 4	(544) Jetta 2
(408) Fama 10	(501) Urhixidur . . . 4	*(545) Messalina . . . 2
(410) 9	(506) 4	(550) Senta 2
(422) Berolina . . . 8	*(507) Laodica . . . 4	*(554) Peraga 2
(427) 8	(510) Mabella 3	(568) Cheruskia 2
(431) 8	(517) 3	(569) Misa 2
(436) Patricia . . . 7	(524) Fidelio 3	(578) 2
(441) 7	*(526) Jena 3	(579) 2
(450) Brigitta . . . 6	(527) Euryanthe . . . 3	(583) 2
(466) Tisiphone . . . 6	(530) Turandot . . . 3	(588) 2

87 Planeten, welche bisher nur in 1 Opposition beobachtet sind, nämlich:

(99) Dike 31	(309) Fraternitas . . 13	(357) Ninina 12
(132) Aethra 27	(310) Margarita . . . 13	(368) Haidea 12
(155) Scylla 25	(315) Constantia . . . 11	(392) Wilhelmina . . . 10
(193) Ambrosia . . . 22	(316) Goberta 13	(396) Aeolia 10
(220) Stephania . . . 19	(320) Katharina . . . 13	(398) 10
(285) Regina 15	(323) Brucia 11	(400) Ducrosa 10
(290) Bruna 13	(330) Adalberta . . . 11	(413) Edburga 9
(293) Brasilia . . . 14	(353) Ruperto-C. . . 12	(414) 10

(428) Monachia . . . 7	(513) Centesima . . 3	(556) Phyllis . . . 2
(430) 8	(515) Athalia . . . 3	(557) Violetta . . . 2
(448) Natalie . . . 7	(518) 3	(558) Carmen . . . 2
(452) 6	(519) 3	(559) Nanon . . . 2
(457) Alleghenia . 6	* (522) Helga . . . 3	(560) Delila . . . 2
(459) Signe 5	(523) 3	(561) Ingwelde . . 2
(461) Saskia . . . 6	(525) Adelaide . . 3	(562) Salome . . . 2
(463) Lola 5	(528) Rezia 3	(563) Suleika . . . 2
(464) Megaira . . . 5	(529) Preziosa . . 3	(564) Dudu 2
(465) Alekto . . . 6	(531) Zerlina . . . 3	(565) Marbachia . 2
(469) Argentina . 6	(534) 3	(566) Stereoskopia 2
(473) Nollu 5	(538) Friederike . 3	(567) Eleutheria . 2
(474) Prudentia . 5	(540) Rosamunde . 2	(570) 2
(486) Cremona . . . 4	(546) Herodias . . 2	(571) 2
(489) Comacina . . 4	(547) 2	(572) 2
(493) Griseldis . . 4	(548) Kressida . . 2	(573) 2
(495) Eulalia . . . 4	(549) Jessonda . . 2	(574) 2
(496) Gryphia . . . 3	(551) Ortrud . . . 2	(575) 2
(497) 4	(552) Sigelinde . . 2	(576) 2
(499) Venusia . . . 4	(553) Kundry . . . 2	(577) 2
(512) Taurinensis. 3	(555) Norma 2	(580) 2

und außerdem die Planeten (581), (582), (584) — (587) und (589) — (601), deren zweite auf die Entdeckungserscheinung folgende Opposition noch bevorsteht.

In den vorstehenden Angaben bezeichnen die hinter den Planetennamen befindlichen Ziffern die Anzahl der bisher, mit Einschluss der Entdeckungserscheinung, stattgefundenen Oppositionen. Von den mit einem * bezeichneten Planeten sind nachträglich noch ältere vor der Entdeckungszeit liegende hier nicht berücksichtigte Beobachtungen aufgefunden.

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