書誌第684號

昭和19年

天體位置表

水路部

昭和18年

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Kodak Gray Scale

A 1 2 3 4 5 6 M 8 9 10 11 12 13 14 15 B 17 18 19

Kodak Color Control Patches

Blue Cyan Green Yellow Red Magenta White 3/Color Black

水
99

昭和19年　天體位置表正誤表

頁	索　　引	誤	正
11	黄緯（平均）10月26日	−0.16″	+0.16″
11	恒星時0h ニ對スル世界時9月22日	23h 59m 3s60	23h 53m 9s.60
31	赤經3月23日5h,6h間ノ差	344s83	144s.83
101	黄緯12月30.0日	−0° 29′ 5″.6	−0° 29′ 54″.6
168	FK3番號661星ノ赤緯固有運動	−0.50″	−0.05″
206	δ Erid 赤緯平位	60.25″	66.25″
222	ζ Pict 赤經1月30.9日	00s.584	60s.584
238	τ Pupp 赤緯11月15.1日	不　明	40.85″
241	63 Auri 赤經平位	48s.374	48s.347
244	α Gemi A 等級スペクトル型	2.85　A 0	削　除
251	β Cncr赤經2月9.9日ト19.9日間ノ差	2	21
274	41 LMin 赤緯欄上部	+23° 29′	+23° 28′
298	FK3番號503ノa	+0.2552	+0.2557
305	υ Cent 赤緯欄上部	−50° 7′	−56° 7′
307	α Cent A 赤緯平位	20.05″	80.05″
312	ψ Boot 赤經8月27.7日	3.000	3s.090
360	ϑ^1 Sgtr, sec δ	不　明	+ 1s.227
406	赤經短週期項2月17.77日	− 0s.04	− 0s.07
406	赤經短週期項2月18.77日	− 0s.07	− 0s.04
446	赤經欄左上部	61h 39m	16h 39m
494	最下行	− 0.76433 間ノ	− 0.76433 日間ノ
500	最上行右側	+0.0030 cos (ε☾ −Γ′+☊)	+0.0030 cos (☾ −Γ′+☊)
509	第1欄 Geminorum 第1行	α　A	α　cg

七　曜　表

神武天皇即位紀元2604年
昭和19年　閏年
西暦1944年

月	日	月	火	水	木	金	土
1月							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
	1 四方拜						
	3 元始祭						
	4 政治始						10 望
	5 新年宴會						26 朔

月	日	月	火	水	木	金	土
4月							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
	3 神武天皇祭						
	29 天長節						
	30 靖國神社祭						9 望
							23 朔

月	日	月	火	水	木	金	土
7月							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					
							6 望
							20 朔

月	日	月	火	水	木	金	土
10月	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
	17 神嘗祭						
	23 靖國神社祭						2 望
							17 朔
							31 望

月	日	月	火	水	木	金	土
2月			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29				
	11 紀元節						
							9 望
							24 朔

月	日	月	火	水	木	金	土
5月		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
	27 海軍記念日						
							8 望
							22 朔

月	日	月	火	水	木	金	土
8月			1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
							4 望
							19 朔

月	日	月	火	水	木	金	土
11月				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30		
	3 明治節						
	23 新嘗祭						
							16 朔
							30 望

月	日	月	火	水	木	金	土
3月				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
	10 陸軍記念日						
	21 (春分)春季皇靈祭						
							10 望
							24 朔

月	日	月	火	水	木	金	土
6月					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	
	11 入梅						
	21 夏至						
							7 望
							21 朔

月	日	月	火	水	木	金	土
9月						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	1 二百十日						
	23 (秋分)秋季皇靈祭						
							3 望
							17 朔

月	日	月	火	水	木	金	土
12月						1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						
	22 冬至						
	25 大正天皇祭						
							15 朔
							29 望

諸外國祝日表

2月6日	滿洲帝國萬壽節
5月1日	獨逸國國祭日
5月10日	「ルーマニア」王國獨立日
5月25日	「アルゼンチン」共和國獨立日
5月27日	「アフガニスタン」王國獨立日
6月16日	瑞典國皇帝「グスタフ」第五世陛下誕辰
7月14日	佛蘭西共和國國祭日
8月1日	瑞西聯邦國祭日(聯邦政府創立日)
8月20日	「ハンガリー」王國國祭日(「サンテチエンヌ」祭日)
9月20日	「タイ」國皇帝「アナンタ・マヒドン」陛下誕辰
9月26日	丁抹國皇帝「クリスチアン」第十世陛下誕辰
10月1日	西班牙國執政就職宣言記念日
10月3日	「ブルガリア」王國獨立日
10月5日	「ポルトガル」共和國國祭日（共和政體創立日）
10月10日	中華民國双十節
10月29日	土耳其共和國共和宣言日
11月7日	「ソビエト」社會主義共和國聯邦創立日
12月6日	「ヒンランド」共和國獨立日

書誌第684號

昭和19年

天體位置表

緒言

(1) 航海上必要ナル天文諸元ハ天測暦及航海暦トシテ刊行シ普ク利用サレ來リシガ、更ニ經緯度測定其ノ他主トシテ陸上ニ於ケル天文作業ニ使用スル目的ヲ以テ、太陽、月、惑星及恒星ノ精密位置ニ北極星緯度表等ノ補助表ヲ加ヘ本書ヲ刊行ス。本書ハ即チ純然タル天文暦ナリ。

(2) 本書ノ内容ハ悉ク當部ニ於テ獨立ニ推算シタルモノナリ。而シテ水星、天王星、海王星、日月食及恒星925個ノ視位ハ特ニ本書ノ爲ニ新ニ推算シ、太陽、月及4大惑星ニ關スル表ハ天測暦資料ノ基礎トシテ數年前既ニ推算セル分ヲ活用セルモノナリ。

(3) 日月出沒時表等本書ニ掲ゲアラザル補助表ハ航海暦ノモノヲ利用スルヲ便トス。

(4) 本書使用ノ結果意見アル向ハ速ニ當部ニ通報アランコトヲ望ム。

昭和18年6月

水路部

天 體 位 置 表

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天 文 常 數

太陽平均赤道地平視差	8.80″	
章動常數	9.21″	
光行差常數	20.47″	
	以上パリー協定（1896）＝依ル	
一般歲差	50.2564″＋0.000222t … 50.2662″	1944.0
赤經ノ歲差	46.0850＋0.000279t … 46.0973	
赤緯ノ歲差	20.0468－0.000085t … 20.0431	
黃道回轉速度	0.4711－0.000007t … 0.4708	
黃道回轉ノ昇交點黃經	173° 57′ 3.6″ ＋32.862″t … 174° 21′ 9.5″	
黃道傾角	23° 27′ 8.26″－0.4684″t … 23° 26′ 47.65″	
	以上 Newcomb ＝依ル	
月ノ平均赤道地平視差	57′ 2.70″ (Brown)	
月ノ平均距離	384 403 粁	
太陽ノ平均距離	149 504 201 粁	
光速度	每秒 299 860 粁 (Newcomb 及 Michelson)	
光　差	498.580^s＝0.005771^d	
太陽年（回歸年）	365.242 198 79^d－614^d×$10^{-10}$$t$…365.242 196 09^d	1944.0
恒星年	365.256 360 42＋11×$10^{-10}$$t$…365.256 360 47	
近點年	365.259 641 34＋304×$10^{-10}$$t$…365.259 642 68	
	以上 Newcomb ＝依ル	
食　年	346.620 031　＋32×$10^{-8}$$t$…346.620 045	
朔望月	29.530 588^d＝29^d 12^h 44^m 2.8^s	Brown
分點月	27.321 582＝27　7 43　4.7	
恒星月	27.321 661＝27　7 43 11.5	
近點月	27.554 550＝27 13 18 33.1	
交點月	27.212 220＝27　5　5 35.8	
恒星日	平陽時ノ 23^h 56^m 4.091^s＝0.99726957平陽日	
平陽日	恒星時ノ 24　3 56.555＝1.00273791恒星日	
Gauss ノ萬有引力常數	K＝0.017 202 099＝3548.18761″	
赤道半徑	a＝6378.388粁	
極半徑	b＝6356.909	
扁　率	$\frac{a-b}{a}=\frac{1}{297.0}$	
離心率	$\frac{\sqrt{a^2-b^2}}{a}=e=0.08199750$	
重力ノ加速度	$g=9.8060^m-0.0260^m\cos 2l-\frac{2h}{R}g$ (Helmert)	
地理緯度 l，地心緯度 l'	$l'=l-11'\,35.66''\sin 2l+1.17''\sin 4l$	

註…tハ 1900 年 1 月 0 日世界時平正午ヨリ起算セル年數（太陽年）

月	日	七曜	視赤経	視赤緯	視半径	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″ ″	″	m s s	h m s
1	1	土	18 41 8.09	−23 6 29.2	16 17.83	8.95	− 3 0.13	6 38 7.971
	2	日	45 33.29 265.20	23 1 54.8 + 274.4	17.85	95	28.77 −28.64	42 4.523
	3	月	49 58.15 264.86	22 56 52.8 302.0	17.86	95	3 57.07 28.30	46 1.075
	4	火	54 22.64 264.49	51 23.4 329.4	17.87	95	4 25.01 27.94	49 57.627
	5	水	18 58 46.75 264.11	45 26.7 356.7	17.87	95	4 52.56 27.55	53 54.183
			263.68	383.8			27.12	
	6	木	19 3 10.43 263.24	−22 39 2.9	16 17.86	8.95	− 5 19.68	6 57 50.739
	7	金	7 33.67 262.76	32 12.2 + 410.7	17.85	95	5 46.36 −26.68	7 1 47.298
	8	土	11 56.43 262.27	24 54.8 463.9	17.83	95	6 12.57 26.21	5 43.859
	9	日	16 18.70 261.75	17 10.9 490.2	17.81	95	6 38.28 25.71	9 40.421
	10	月	20 40.45 261.22	9 0.7 516.1	17.78	95	7 3.48 25.20	13 36.982
							24.66	
	11	火	19 25 1.67 260.65	−22 0 24.6	16 17.75	8.95	− 7 28.14	7 17 33.542
	12	水	29 22.32 260.08	21 51 22.6 + 542.0	17.71	95	7 52.23 −24.09	21 30.100
	13	木	33 42.40 259.48	41 55.2 567.4	17.66	95	8 15.75 23.52	25 26.657
	14	金	38 1.88 258.86	32 2.5 592.7	17.61	95	8 38.67 22.92	29 23.213
	15	土	42 20.74 258.23	21 44.8 617.7	17.55	95	9 0.98 22.31	33 19.766
				642.3			21.67	
	16	日	19 46 38.97 257.58	−21 11 2.5	16 17.48	8.95	− 9 22.65	7 37 16.318
	17	月	50 56.55 256.91	20 59 55.7 + 666.8	17.41	95	9 43.67 −21.02	41 12.870
	18	火	55 13.46 256.22	48 24.9 690.8	17.33	95	10 4.02 20.35	45 9.421
	19	水	19 59 29.68 255.53	36 30.4 714.5	17.25	94	23.70 19.68	49 5.974
	20	木	20 3 45.21 254.82	24 12.4 738.0	17.16	94	10 42.67 18.97	53 2.528
				761.1			18.26	
	21	金	20 8 0.03 254.09	−20 11 31.3	16 17.07	8.94	−11 0.93	7 56 59.085
	22	土	12 14.12 253.34	19 58 27.4 + 783.9	16.98	94	18.46 −17.53	8 0 55.645
	23	日	16 27.46 252.59	45 1.1 806.3	16.88	94	35.25 16.79	4 52.207
	24	月	20 40.05 251.82	31 12.7 828.4	16.78	94	11 51.28 16.03	8 48.770
	25	火	24 51.87 251.03	17 2.7 850.0	16.67	94	12 6.54 15.26	12 45.332
				871.4			14.48	
	26	水	20 29 2.90 250.24	−19 2 31.3	16 16.56	8.94	−12 21.02	8 16 41.892
	27	木	33 13.14 249.42	18 47 39.0 + 892.3	16.45	94	34.70 −13.68	20 38.450
	28	金	37 22.56 248.60	32 26.2 912.8	16.34	94	47.57 12.87	24 35.004
	29	土	41 31.16 247.77	16 53.2 933.0	16.22	93	12 59.61 12.04	28 31.555
	30	日	45 38.93 246.94	18 1 0.5 952.7	16.10	93	13 10.83 11.22	32 28.106
				972.0			10.38	
	31	月	20 49 45.87 246.09	−17 44 48.5	16 15.97	8.93	−13 21.21	8 36 24.656
2	1	火	53 51.96 245.26	28 17.5 + 991.0	15.84	93	30.75 − 9.54	40 21.209
	2	水	20 57 57.22 244.42	17 11 28.0 1009.5	15.71	93	39.45 8.70	44 17.763
	3	木	21 2 1.64 243.57	16 54 20.5 1027.5	15.57	93	47.31 7.86	48 14.319
	4	金	6 5.21 242.74	36 55.2 1045.3	15.42	93	13 54.33 7.02	52 10.877
				1062.6			6.19	
	5	土	21 10 7.95 241.92	−16 19 12.6	16 15.27	8.93	−14 0.52	8 56 7.437
	6	日	14 9.87 241.10	16 1 13.1 +1079.5	15.12	92	5.88 − 5.36	9 0 3.996
	7	月	18 10.97 240.28	15 42 57.2 1095.9	14.96	92	10.42 4.54	4 0.554
	8	火	22 11.25 239.48	24 25.1 1112.1	14.80	92	14.15 3.73	7 57.110
	9	水	26 10.73 238.68	15 5 37.4 1127.7	14.63	92	17.08 2.93	11 53.665
				1143.0			2.13	
	10	木	21 30 9.41 237.90	−14 46 34.4	16 14.46	8.92	−14 19.21	9 15 50.218
	11	金	34 7.31 237.13	27 16.5 +1157.9	14.28	92	20.55 − 1.34	19 46.770
	12	土	38 4.44 236.36	14 7 44.2 1172.3	14.10	92	21.12 − 0.57	23 43.318
	13	日	42 0.80 235.62	13 47 57.9 1186.3	13.91	91	20.93 + 0.19	27 39.867
	14	月	45 56.42 234.87	27 57.9 1200.0	13.71	91	19.99 0.94	31 36.416
				1213.3			1.68	
	15	火	21 49 51.29 234.15	−13 7 44.6	16 13.51	8.91	−14 18.31	9 35 32.965
	16	水	53 45.44 233.45	12 47 18.5 +1226.1	13.31	91	15.91 + 2.40	39 29.516
	17	木	21 57 38.89 232.74	26 40.0 1238.5	13.11	91	12.80 3.11	43 26.070
	18	金	22 1 31.63 232.06	12 5 49.5 1250.5	12.90	91	8.99 3.81	47 22.625
	19	土	5 23.69 231.38	11 44 47.3 1262.2	12.69	90	14 4.50 4.49	51 19.184
				1273.4			5.17	
	20	日	22 9 15.07 230.73	−11 23 33.9	16 12.47	8.90	−13 59.33	9 55 15.743
	21	月	13 5.80 230.08	11 2 9.7 +1284.2	12.25	90	53.50 + 5.83	9 59 12.303
	22	火	16 55.88 229.43	10 40 35.1 1294.6	12.03	90	47.02 6.48	10 3 8.862
	23	水	20 45.31 228.81	10 18 50.6 1304.5	11.81	89	39.91 7.11	7 5.418
	24	木	24 34.12 228.20	9 56 56.6 1314.0	11.59	89	32.16 7.75	11 1.970
				1323.2			8.36	
	25	金	22 28 22.32 227.58	− 9 34 53.4	16 11.36	8.89	−13 23.80	10 14 58.521
	26	土	32 9.90 226.99	9 12 41.6 +1331.8	11.13	89	14.83 + 8.97	18 55.069
	27	日	35 56.89 226.41	8 50 21.5 1340.1	10.90	89	13 5.27 9.56	22 51.617
	28	月	39 43.30 225.84	27 53.6 1347.9	10.68	88	12 55.12 10.15	26 48.166
	29	火	43 29.14 225.29	8 5 18.4 1355.2	10.45	88	44.41 10.71	30 44.718
				+1362.3			+11.26	
3	1	水	22 47 14.43	− 7 42 36.1	16 10.22	8.88	−12 33.15	10 34 41.271

水
99

通日	月	日	世界時 0h 視黄経	黄緯 平均	黄緯 視	地球ノ動径（對數）	黄経ノ歳差	黄経ノ章動 長	黄経ノ章動 短	赤経ノ章動 長	赤経ノ章動 短	恒星時0hニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
1	1	1	279 27 2.5	−0.32	−0.32	9.9926854	−0.06	−13.33	+0.17	−0.816	+0.010	17 19 1.35
2		2	280 28 12.6 3670.1	43	43	6778	+0.07	28	+0.09	812	+0.005	15 5.44
3		3	281 29 22.4 3669.8	51	51	6726	21	25	0.00	810	0.000	11 9.53
4		4	282 30 31.9 3669.5	57	57	6696	35	21	−0.07	808	−0.005	7 13.62
5		5	283 31 41.1 3669.2	58	58	6691	49	18	−0.12	806	−0.007	17 3 17.71
			3668.8									
6		6	284 32 49.9 3668.6	−0.56	−0.57	9.9926711	+0.62	−13.15	−0.11	−0.804	−0.008	16 59 21.80
7		7	285 33 58.5 3668.2	52	53	6756	76	12	−0.09	803	−0.006	55 25.89
8		8	286 35 6.7 3668.0	44	45	6829	0.90	09	−0.04	801	−0.002	51 29.98
9		9	287 36 14.7 3667.6	35	36	6930	1.04	06	+0.04	799	+0.002	47 34.06
10		10	288 37 22.3 3667.4	25	26	7059	17	03	+0.10	797	+0.006	43 38.15
11		11	289 38 29.7 3667.2	−0.13	−0.14	9.9927216	+1.31	−13.00	+0.15	−0.795	+0.009	16 39 42.24
12		12	290 39 36.9 3666.9	0.00	−0.01	7401	45	12.97	+0.17	794	+0.010	35 46.33
13		13	291 40 43.8 3666.6	+0.12	+0.11	7614	59	95	+0.17	792	+0.010	31 50.42
14		14	292 41 50.4 3666.5	25	24	7854	72	92	+0.14	791	+0.009	27 54.51
15		15	293 42 56.9 3666.2	36	34	8119	1.86	90	+0.08	789	+0.005	23 58.60
16		16	294 44 3.1 3665.9	+0.45	+0.43	9.9928411	+2.00	−12.87	+0.01	−0.788	0.000	16 20 2.69
17		17	295 45 9.0 3665.7	52	50	8727	14	85	−0.09	786	−0.005	16 6.78
18		18	296 46 14.7 3665.4	56	54	9068	27	83	−0.18	785	−0.010	12 10.87
19		19	297 47 20.1 3665.1	57	55	9430	41	81	−0.23	783	−0.014	8 14.95
20		20	298 48 25.2 3664.8	55	53	9.9929814	55	79	−0.28	782	−0.016	4 19.04
21		21	299 49 30.0 3664.4	+0.50	+0.48	9.9930218	+2.69	−12.78	−0.27	−0.782	−0.016	16 0 23.13
22		22	300 50 34.4 3663.9	41	39	0641	83	76	−0.21	781	−0.012	15 56 27.22
23		23	301 51 38.3 3663.4	31	29	1081	2.96	75	−0.11	780	−0.006	52 31.31
24		24	302 52 41.7 3662.8	19	17	1536	3.10	74	+0.01	779	+0.001	48 35.40
25		25	303 53 44.5 3662.0	+0.05	+0.03	2007	24	73	+0.11	779	+0.007	44 39.49
26		26	304 54 46.5 3661.2	−0.10	−0.12	9.9932492	+3.38	−12.72	+0.18	−0.778	+0.011	15 40 43.58
27		27	305 55 47.7 3660.1	24	26	2990	51	71	+0.20	777	+0.013	36 47.67
28		28	306 56 47.8 3659.1	37	40	3502	65	70	+0.17	777	+0.011	32 51.76
29		29	307 57 46.9 3657.9	48	51	4028	79	70	+0.13	777	+0.007	28 55.85
30		30	308 58 44.8 3656.7	57	60	4571	3.93	70	+0.04	777	+0.002	24 59.94
31		31	309 59 41.5 3655.3	−0.63	−0.66	9.9935130	+4.06	−12.70	−0.04	−0.777	−0.003	15 21 4.03
32	2	1	311 0 36.8 3654.0	66	69	5707	20	70	−0.09	777	−0.006	17 8.12
33		2	312 1 30.8 3652.6	65	68	6303	34	70	−0.11	777	−0.007	13 12.21
34		3	313 2 23.4 3651.3	61	64	6920	48	70	−0.08	777	−0.006	9 16.31
35		4	314 3 14.7 3649.9	56	59	7558	61	71	−0.03	777	−0.003	5 20.40
36		5	315 4 4.6 3648.5	−0.47	−0.50	9.9938218	+4.75	−12.72	+0.03	−0.778	+0.002	15 1 24.49
37		6	316 4 53.1 3647.2	37	40	8900	4.89	73	+0.09	779	+0.006	14 57 28.58
38		7	317 5 40.3 3645.9	24	27	9.9939606	5.03	74	+0.15	779	+0.009	53 32.67
39		8	318 6 26.2 3644.5	−0.12	15	9.9940335	16	75	+0.17	780	+0.011	49 36.76
40		9	319 7 10.7 3643.3	0.00	−0.03	1087	30	76	+0.19	781	+0.011	45 40.85
41		10	320 7 54.0 3641.9	+0.12	+0.09	9.9941863	+5.44	−12.78	+0.17	−0.782	+0.010	14 41 44.94
42		11	321 8 35.9 3640.7	24	21	2662	58	79	+0.11	782	+0.007	37 49.03
43		12	322 9 16.6 3639.5	33	30	3482	72	81	+0.05	783	+0.002	33 53.13
44		13	323 9 56.1 3638.2	41	38	4325	85	83	−0.05	785	−0.003	29 57.22
45		14	324 10 34.3 3637.0	46	43	5188	5.99	85	−0.14	786	−0.008	26 1.31
46		15	325 11 11.3 3635.8	+0.48	+0.45	9.9946071	+6.13	−12.87	−0.22	−0.788	−0.013	14 22 5.40
47		16	326 11 47.1 3634.6	47	44	6972	27	90	−0.26	790	−0.016	18 9.50
48		17	327 12 21.7 3633.4	43	40	7892	40	93	−0.28	791	−0.016	14 13.59
49		18	328 12 55.1 3632.1	37	34	8827	54	96	−0.23	793	−0.014	10 17.68
50		19	329 13 27.2 3630.9	27	24	9.9949777	68	12.99	−0.16	794	−0.009	6 21.77
51		20	330 13 58.1 3629.6	+0.16	+0.13	9.9950739	+6.82	−13.02	−0.05	−0.796	−0.003	14 2 25.86
52		21	331 14 27.7 3628.1	+0.02	−0.01	1712	6.95	05	+0.06	798	+0.004	13 58 29.96
53		22	332 14 55.8 3626.8	−0.12	15	2694	7.09	08	+0.14	800	+0.009	54 34.05
54		23	333 15 22.6 3625.1	27	29	3685	23	11	+0.18	802	+0.012	50 38.14
55		24	334 15 47.7 3623.5	40	42	4683	37	15	+0.17	805	+0.011	46 42.24
56		25	335 16 11.2 3621.8	−0.52	−0.54	9.9955687	+7.50	−13.18	+0.14	−0.807	+0.008	13 42 46.33
57		26	336 16 33.0 3619.8	62	64	6697	64	22	+0.05	809	+0.003	38 50.42
58		27	337 16 52.8 3617.9	70	72	7714	78	26	−0.04	811	−0.002	34 54.51
59		28	338 17 10.7 3615.9	73	75	8738	7.92	30	−0.08	813	−0.006	30 58.61
60		29	339 17 26.6 3613.9	73	75	9.9959770	8.06	34	−0.11	816	−0.007	27 2.70
61	3	1	340 17 40.5	−0.70	−0.72	9.9960812	+8.19	−13.38	−0.09	−0.819	−0.007	13 23 6.79

月	日	七曜	視赤經		視赤緯		視半徑	地平視差	時差率（視時−平時）		恒星時	
			h m s	s	° ′ ″	″	′ ″	″	m s	s	h m s	
3	1	水	22 47 14.43	224.75	− 7 42 36.1	+1368.9	16 10.22	8.88	−12 33.15	+11.80	10 34 41.271	
	2	木	50 59.18	224.24	7 19 47.2	1375.0	9.98	88	21.35	12.31	38 37.827	
	3	金	54 43.42	223.74	6 56 52.2	1380.9	9.74	88	12 9.04	12.81	42 34.384	
	4	土	22 58 27.16	223.27	33 51.3	1386.2	9.50	87	11 56.23	13.29	46 30.941	
	5	日	23 2 10.43	222.82	6 10 45.1	1391.3	9.26	87	42.94	13.73	50 27.498	
	6	月	23 5 53.25	222.38	− 5 47 33.8	+1395.9	16 9.01	8.87	−11 29.21	+14.17	10 54 24.052	
	7	火	9 35.63	221.98	24 17.9	1400.1	8.76	87	15.04	14.58	10 58 20.605	
	8	水	13 17.61	221.58	5 0 57.8	1404.1	8.51	86	11 0.46	14.97	11 2 17.156	
	9	木	16 59.19	221.22	4 37 33.7	1407.5	8.26	86	10 45.49	15.33	6 13.706	
	10	金	20 40.41	220.88	4 14 6.2	1410.7	8.00	86	30.16	15.67	10 10.254	
	11	土	23 24 21.29	220.56	− 3 50 35.5	+1413.5	16 7.74	8.86	−10 14.49	+15.99	11 14 6.801	
	12	日	28 1.85	220.27	27 2.0	1416.0	7.48	85	9 58.50	16.29	18 3.349	
	13	月	31 42.12	219.99	3 3 26.0	1417.9	7.21	85	42.21	16.56	21 59.896	
	14	火	35 22.11	219.75	2 39 48.1	1419.8	6.94	85	25.65	16.80	25 56.445	
	15	水	39 1.86	219.52	2 16 8.3	1421.1	6.67	85	9 8.85	17.04	29 52.995	
	16	木	23 42 41.38	219.31	− 1 52 27.2	+1422.1	16 6.40	8.84	− 8 51.81	+17.23	11 33 49.548	
	17	金	46 20.69	219.14	28 45.1	1422.7	6.12	84	34.58	17.42	37 46.104	
	18	土	49 59.83	218.97	1 5 2.4	1423.0	5.85	84	8 17.16	17.58	41 42.663	
	19	日	53 38.80	218.83	0 41 19.4	1423.0	5.57	84	7 59.58	17.72	45 39.221	
	20	月	23 57 17.63	218.71	− 0 17 36.4	1422.6	5.29	83	41.86	17.84	49 35.778	
	21	火	0 0 56.34	218.61	+ 0 6 6.2	+1421.8	16 5.01	8.83	− 7 24.02	+17.95	11 53 32.334	
	22	水	4 34.95	218.52	29 48.0	1420.6	4.73	83	7 6.07	18.03	11 57 28.887	
	23	木	8 13.47	218.45	0 53 28.6	1419.0	4.46	83	6 48.04	18.10	12 1 25.436	
	24	金	11 51.92	218.39	1 17 7.6	1417.1	4.18	82	29.94	18.16	5 21.984	
	25	土	15 30.31	218.35	1 40 44.7	1414.8	3.90	82	6 11.78	18.20	9 18.532	
	26	日	0 19 8.66	218.33	+ 2 4 19.5	+1412.0	16 3.63	8.82	− 5 53.58	+18.23	12 13 15.079	
	27	月	22 46.99	218.32	27 51.5	1409.0	3.36	82	35.35	18.23	17 11.629	
	28	火	26 25.31	218.32	2 51 20.5	1405.6	3.08	81	5 17.12	18.23	21 8.181	
	29	水	30 3.63	218.35	3 14 46.1	1401.6	2.81	81	4 58.89	18.20	25 4.736	
	30	木	33 41.98	218.40	3 38 7.7	1397.5	2.54	81	40.69	18.15	29 1.293	
	31	金	0 37 20.38	218.46	+ 4 1 25.2	+1393.0	16 2.27	8.81	− 4 22.54	+18.09	12 32 57.850	
4	1	土	40 58.84	218.55	24 38.2	1388.1	2.00	80	4 4.45	18.01	36 54.406	
	2	日	44 37.39	218.65	4 47 46.3	1382.8	1.73	80	3 46.44	17.90	40 50.963	
	3	月	48 16.04	218.78	5 10 49.1	1377.3	1.45	80	28.54	17.78	44 47.516	
	4	火	51 54.82	218.92	33 46.4	1371.3	1.18	80	3 10.76	17.63	48 44.068	
	5	水	0 55 33.74	219.09	+ 5 56 37.7	+1365.1	16 0.91	8.79	− 2 53.13	+17.46	12 52 40.618	
	6	木	0 59 12.83	219.27	6 19 22.8	1358.5	0.64	79	35.67	17.28	12 56 37.167	
	7	金	1 2 52.10	219.49	6 42 1.3	1351.6	0.36	79	18.39	17.07	13 0 33.714	
	8	土	6 31.59	219.71	7 4 32.9	1344.3	16 0.09	79	2 1.32	16.84	4 30.262	
	9	日	10 11.30	219.96	26 57.2	1336.8	15 59.82	78	1 44.48	16.59	8 26.810	
	10	月	1 13 51.26	220.23	+ 7 49 14.0	+1328.9	15 59.54	8.78	− 1 27.89	+16.32	13 12 23.359	
	11	火	17 31.49	220.52	8 11 22.9	1320.7	59.27	78	1 11.57	16.03	16 19.909	
	12	水	21 12.01	220.84	33 23.6	1312.1	58.99	78	0 55.54	15.72	20 16.463	
	13	木	24 52.85	221.16	8 55 15.7	1303.3	58.72	78	39.82	15.40	24 13.019	
	14	金	28 34.01	221.51	9 16 59.0	1294.2	58.44	77	24.42	15.04	28 9.576	
	15	土	1 32 15.52	221.87	+ 9 38 33.2	+1284.7	15 58.17	8.77	− 0 9.38	+14.68	13 32 6.135	
	16	日	35 57.39	222.26	9 59 57.9	1274.9	57.89	77	+ 0 5.30	14.29	36 2.693	
	17	月	39 39.65	222.66	10 21 12.8	1264.8	57.62	76	19.59	13.90	39 59.250	
	18	火	43 22.31	223.06	10 42 17.6	1254.3	57.35	76	33.49	13.49	43 55.805	
	19	水	47 5.37	223.49	11 3 11.9	1243.5	57.08	76	0 46.98	13.06	47 52.357	
	20	木	1 50 48.86	223.92	+11 23 55.4	+1232.3	15 56.81	8.76	+ 1 0.04	+12.64	13 51 48.907	
	21	金	54 32.78	224.35	11 44 27.7	1220.8	56.55	75	12.68	12.20	55 45.455	
	22	土	1 58 17.13	224.81	12 4 48.5	1208.9	56.29	75	24.88	11.74	13 59 42.004	
	23	日	2 2 1.94	225.27	24 57.4	1196.8	56.03	75	36.62	11.29	14 3 38.555	
	24	月	5 47.21	225.72	12 44 54.2	1184.2	55.77	75	47.91	10.83	7 35.108	
	25	火	2 9 32.93	226.20	+13 4 38.4	+1171.2	15 55.52	8.75	+ 1 58.74	+10.36	14 11 31.664	
	26	水	13 19.13	226.67	24 9.6	1158.0	55.28	74	2 9.10	9.88	15 28.221	
	27	木	17 5.80	227.16	13 43 27.6	1144.4	55.03	74	18.98	9.39	19 24.781	
	28	金	20 52.96	227.65	14 2 32.0	1130.4	54.79	74	28.37	8.91	23 21.340	
	29	土	24 40.61	228.15	21 22.4	1116.2	54.55	74	37.28	8.40	27 17.898	
	30	日	2 28 28.76	228.67	+14 39 58.6	+1101.6	15 54.31	8.73	+ 2 45.68	+ 7.89	14 31 14.455	
5	1	月	2 32 17.43		+14 58 20.2		15 54.07	8.73	+ 2 53.57		14 35 11.009	

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0hニ對スル世界時
			° ′ ″	″	″		″	″	″	s	s	h m s
61	3	1	340 17 40.5	−0.70	−0.72	9.9960812	+ 8.19	−13.38	−0.09	−0.819	−0.007	13 23 6.79
62		2	341 17 52.2	64	66	1864	33	42	−0.04	821	−0.003	19 10.88
63		3	342 18 1.9	57	59	2927	47	47	+0.01	824	+0.001	15 14.98
64		4	343 18 9.5	47	49	4003	61	51	+0.08	827	+0.005	11 19.07
65		5	344 18 15.0	36	37	5090	74	56	+0.15	830	+0.009	7 23.16
66		6	345 18 18.4	−0.23	−0.24	9.9966191	+ 8.88	−13.60	+0.19	−0.832	+0.011	13 3 27.26
67		7	346 18 19.8	−0.10	−0.11	7306	9.02	65	+0.19	835	+0.012	12 59 31.35
68		8	347 18 19.1	+0.03	+0.02	8434	16	70	+0.18	838	+0.011	55 35.45
69		9	348 18 16.4	14	13	9.9969576	29	75	+0.13	841	+0.008	51 39.54
70		10	349 18 11.8	24	23	9.9970732	43	80	+0.08	844	+0.004	47 43.63
71		11	350 18 5.3	+0.31	+0.30	9.9971902	+ 9.57	−13.85	−0.02	−0.848	−0.001	12 43 47.73
72		12	351 17 56.8	36	36	3085	71	90	−0.10	851	−0.006	39 51.82
73		13	352 17 46.5	39	39	4280	84	13.96	−0.19	854	−0.011	35 55.91
74		14	353 17 34.4	39	39	5488	9.98	14.01	−0.24	857	−0.014	32 0.01
75		15	354 17 20.5	37	37	6705	10.12	06	−0.28	860	−0.016	28 4.10
76		16	355 17 4.9	+0.31	+0.31	9.9977933	+10.26	−14.11	−0.25	−0.863	−0.015	12 24 8.20
77		17	356 16 47.5	24	24	9.9979168	39	16	−0.18	867	−0.011	20 12.29
78		18	357 16 28.5	+0.13	+0.13	9.9980412	53	21	−0.10	870	−0.005	16 16.38
79		19	358 16 7.7	−0.01	0.00	1659	67	27	+0.02	873	+0.001	12 20.48
80		20	359 15 45.3	0.15	−0.14	2909	81	32	+0.10	876	+0.006	8 24.57
81		21	0 15 21.0	−0.29	−0.28	9.9984161	+10.95	−14.37	+0.15	−0.880	+0.010	12 4 28.66
82		22	1 14 55.1	43	42	5413	11.08	42	+0.16	883	+0.011	12 0 32.76
83		23	2 14 27.2	54	53	6663	22	48	+0.13	886	+0.008	11 56 36.85
84		24	3 13 57.5	65	63	7909	36	53	+0.06	889	+0.004	52 40.94
85		25	4 13 25.7	72	70	9.9989151	50	58	−0.01	892	−0.001	48 45.03
86		26	5 12 51.9	−0.77	−0.75	9.9990389	+11.63	−14.63	−0.09	−0.895	−0.006	11 44 49.13
87		27	6 12 15.9	78	76	1623	77	69	−0.10	899	−0.008	40 53.23
88		28	7 11 37.7	75	73	2853	11.91	74	−0.11	902	−0.008	36 57.32
89		29	8 10 57.2	71	68	4081	12.05	79	−0.07	905	−0.005	33 1.41
90		30	9 10 14.3	63	60	5306	18	84	−0.01	908	−0.001	29 5.51
91		31	10 9 29.2	−0.54	−0.51	9.9996531	+12.32	−14.89	+0.05	−0.911	+0.004	11 25 9.60
92	4	1	11 8 41.7	42	39	7756	46	94	+0.12	914	+0.008	21 13.69
93		2	12 7 52.0	31	27	9.9998981	60	14.99	+0.18	917	+0.012	17 17.79
94		3	13 6 59.9	19	15	0.0000208	73	15.04	+0.20	920	+0.013	13 21.88
95		4	14 6 5.5	−0.07	−0.03	1436	12.87	09	+0.20	923	+0.012	9 25.97
96		5	15 5 8.9	+0.06	+0.10	0.0002666	+13.01	−15.14	+0.16	−0.925	+0.010	11 5 30.07
97		6	16 4 10.1	15	20	3898	15	18	+0.11	928	+0.006	11 1 34.16
98		7	17 3 9.1	23	28	5134	28	23	+0.03	931	+0.001	10 57 38.25
99		8	18 2 6.1	28	33	6371	42	27	−0.06	934	−0.004	53 42.35
100		9	19 1 0.9	32	37	7612	56	32	−0.15	937	−0.009	49 46.44
101		10	19 59 53.7	+0.32	+0.38	0.0008855	+13.70	−15.36	−0.22	−0.939	−0.013	10 45 50.53
102		11	20 58 44.6	29	35	0.0010101	84	40	−0.26	942	−0.015	41 54.63
103		12	21 57 33.6	25	31	1348	13.97	44	−0.25	944	−0.014	37 58.72
104		13	22 56 20.8	17	23	2596	14.11	48	−0.21	947	−0.011	34 2.81
105		14	23 55 6.2	+0.06	13	3843	25	52	−0.11	949	−0.007	30 6.91
106		15	24 53 49.9	−0.05	+0.02	0.0015089	+14.39	−15.56	−0.01	−0.952	−0.001	10 26 11.00
107		16	25 52 31.9	18	−0.11	6330	52	60	+0.09	954	+0.005	22 15.09
108		17	26 51 12.3	31	24	7567	66	63	+0.14	956	+0.009	18 19.19
109		18	27 49 51.1	45	37	0.0018796	80	66	+0.17	958	+0.010	14 23.28
110		19	28 48 28.2	57	49	0.0020016	14.94	69	+0.14	959	+0.009	10 27.37
111		20	29 47 3.6	−0.67	−0.59	0.0021226	+15.07	−15.72	+0.08	−0.961	+0.005	10 6 31.46
112		21	30 45 37.3	75	67	2424	21	75	−0.01	963	0.000	10 2 35.55
113		22	31 44 9.2	79	70	3609	35	78	−0.10	965	−0.005	9 58 39.65
114		23	32 42 39.3	80	71	4780	49	81	−0.13	966	−0.008	54 43.74
115		24	33 41 7.6	77	68	5936	62	83	−0.13	968	−0.009	50 47.83
116		25	34 39 33.8	−0.73	−0.63	0.0027078	+15.76	−15.86	−0.11	−0.969	−0.007	9 46 51.92
117		26	35 37 58.1	66	56	8206	15.90	88	−0.04	971	−0.004	42 56.01
118		27	36 36 20.4	57	47	0.0029320	16.04	90	+0.03	972	+0.002	39 0.11
119		28	37 34 40.5	46	36	0.0030422	17	92	+0.12	974	+0.007	35 4.20
120		29	38 32 58.7	−0.34	23	1512	31	94	+0.17	975	+0.011	31 8.29
121		30	39 31 14.8	−0.22	−0.11	0.0032591	+16.45	−15.96	+0.21	−0.976	+0.013	9 27 12.38
122	5	1	40 29 28.8	−0.10	+0.01	0.0033661	+16.59	−15.98	+0.19	−0.978	+0.013	9 23 16.47

月	日	七曜	視赤経		視赤緯		視半径	地平視差	時差率（視時−平時）		恒星時	
			h m s	s	° ′ ″	″	′ ″	″	m s	s	h m s	
5	1	月	2 32 17.43	229.18	+14 58 20.2	+1086.6	15 54.07	8.73	+ 2 53.57	+ 7.37	14 35 11.009	
	2	火	36 6.61	229.70	15 16 26.8	1071.5	53.84	73	3 0.94	6.85	39 7.560	
	3	水	39 56.31	230.24	34 18.3	1055.9	53.61	73	7.79	6.32	43 4.112	
	4	木	43 46.55	230.78	15 51 54.2	1040.1	53.39	73	14.11	5.77	47 0.661	
	5	金	47 37.33	231.33	16 9 14.3	1024.0	53.16	72	19.88	5.22	50 57.211	
	6	土	2 51 28.66	231.89	+16 26 18.3	+1007.5	15 52.93	8.72	+ 3 25.10	+ 4.67	14 54 53.760	
	7	日	55 20.55	232.45	43 5.8	990.9	52.71	72	29.77	4.11	14 58 50.311	
	8	月	2 59 13.00	233.01	16 59 36.7	973.8	52.49	72	33.88	3.54	15 2 46.864	
	9	火	3 3 6.01	233.59	17 15 50.5	956.5	52.27	72	37.42	2.97	6 43.419	
	10	水	6 59.60	234.16	31 47.0	939.0	52.05	71	40.39	2.39	10 39.976	
	11	木	3 10 53.76	234.76	+17 47 26.0	+ 921.2	15 51.83	8.71	+ 3 42.78	+ 1.80	15 14 36.536	
	12	金	14 48.52	235.34	18 2 47.2	903.0	51.61	71	44.58	1.21	18 33.097	
	13	土	18 43.86	235.93	17 50.2	884.6	51.40	71	45.79	0.63	22 29.658	
	14	日	22 39.79	236.53	32 34.8	866.0	51.19	71	46.42	+ 0.03	26 26.219	
	15	月	26 36.32	237.11	18 47 0.8	847.1	50.98	70	46.45	− 0.56	30 22.776	
	16	火	3 30 33.43	237.70	+19 1 7.9	+ 827.9	15 50.77	8.70	+ 3 45.89	− 1.14	15 34 19.331	
	17	水	34 31.13	238.28	14 55.8	808.4	50.57	70	44.75	1.73	38 15.884	
	18	木	38 29.41	238.86	28 24.2	788.6	50.37	70	43.02	2.30	42 12.435	
	19	金	42 28.27	239.42	41 32.8	768.7	50.18	70	40.72	2.86	46 8.985	
	20	土	46 27.69	239.97	19 54 21.5	748.3	49.99	70	37.86	3.42	50 5.537	
	21	日	3 50 27.66	240.52	+20 6 49.8	+ 727.8	15 49.80	8.69	+ 3 34.44	− 3.97	15 54 2.091	
	22	月	54 28.18	241.06	18 57.6	706.9	49.62	69	30.47	4.49	15 57 58.648	
	23	火	3 58 29.24	241.57	30 44.5	685.9	49.44	69	25.98	5.02	16 1 55.207	
	24	水	4 2 30.81	242.07	42 10.4	664.5	49.27	69	20.96	5.51	5 51.769	
	25	木	6 32.88	242.56	20 53 14.9	642.9	49.11	69	15.45	6.01	9 48.330	
	26	金	4 10 35.44	243.04	+21 3 57.8	+ 621.2	15 48.95	8.69	+ 3 9.44	− 6.48	16 13 44.892	
	27	土	14 38.48	243.50	14 19.0	599.0	48.79	68	3 2.96	6.94	17 41.451	
	28	日	18 41.98	243.94	24 18.0	576.8	48.64	68	2 56.02	7.39	21 38.009	
	29	月	22 45.92	244.38	33 54.8	554.4	48.49	68	48.63	7.82	25 34.564	
	30	火	26 50.30	244.80	43 9.2	531.7	48.34	68	40.81	8.24	29 31.118	
	31	水	4 30 55.10	245.20	+21 52 0.9	+ 508.8	15 48.20	8.68	+ 2 32.57	− 8.65	16 33 27.670	
6	1	木	35 0.30	245.59	22 0 29.7	485.8	48.06	68	23.92	9.03	37 24.221	
	2	金	39 5.89	245.96	8 35.5	462.6	47.93	68	14.89	9.41	41 20.773	
	3	土	43 11.85	246.32	16 18.1	439.3	47.80	67	2 5.48	9.76	45 17.324	
	4	日	47 18.17	246.67	23 37.4	415.7	47.67	67	1 55.72	10.11	49 13.878	
	5	月	4 51 24.84	246.99	+22 30 33.1	+ 392.1	15 47.55	8.67	+ 1 45.61	−10.43	16 53 10.434	
	6	火	55 31.83	247.30	37 5.2	368.3	47.43	67	35.18	10.74	16 57 6.993	
	7	水	4 59 39.13	247.60	43 13.5	344.4	47.31	67	24.44	11.05	17 1 3.554	
	8	木	5 3 46.73	247.88	48 57.9	320.4	47.19	67	13.39	11.33	5 0.117	
	9	金	7 54.61	248.16	54 18.3	296.3	47.08	67	1 2.06	11.59	8 56.681	
	10	土	5 12 2.77	248.40	+22 59 14.6	+ 272.0	15 46.97	8.67	+ 0 50.47	−11.84	17 12 53.243	
	11	日	16 11.17	248.63	23 3 46.6	247.8	46.86	67	38.63	12.08	16 49.804	
	12	月	20 19.80	248.85	7 54.4	223.3	46.75	67	26.55	12.29	20 46.361	
	13	火	24 28.65	249.04	11 37.7	198.9	46.65	66	14.26	12.48	24 42.916	
	14	水	28 37.69	249.21	14 56.6	174.3	46.56	66	+ 0 1.78	12.66	28 39.469	
	15	木	5 32 46.90	249.35	+23 17 50.9	+ 149.8	15 46.47	8.66	− 0 10.88	−12.79	17 32 36.021	
	16	金	36 56.25	249.48	20 20.7	125.0	46.38	66	23.67	12.92	36 32.573	
	17	土	41 5.73	249.57	22 25.7	100.4	46.30	66	36.59	13.02	40 29.127	
	18	日	45 15.30	249.64	24 6.1	75.6	46.22	66	0 49.61	13.08	44 25.685	
	19	月	49 24.94	249.67	25 21.7	50.8	46.15	66	1 2.69	13.11	48 22.242	
	20	火	5 53 34.61	249.68	+23 26 12.5	+ 26.1	15 46.08	8.66	− 1 15.80	−13.13	17 52 18.803	
	21	水	5 57 44.29	249.67	26 38.6	+ 1.2	46.02	66	28.93	13.11	17 56 15.366	
	22	木	6 1 53.96	249.63	26 39.8	− 23.6	45.97	66	42.04	13.07	18 0 11.928	
	23	金	6 3.59	249.55	26 16.2	48.4	45.92	66	1 55.11	13.00	4 8.489	
	24	土	10 13.14	249.45	25 27.8	73.1	45.88	66	2 8.11	12.89	8 5.048	
	25	日	6 14 22.59	249.33	+23 24 14.7	− 97.9	15 45.84	8.66	− 2 21.00	−12.77	18 12 1.605	
	26	月	18 31.92	249.18	22 36.8	122.6	45.80	66	33.77	12.62	15 58.161	
	27	火	22 41.10	249.00	20 34.2	147.2	45.77	66	46.39	12.44	19 54.714	
	28	水	26 50.10	248.80	18 7.0	171.7	45.75	66	2 58.83	12.25	23 51.266	
	29	木	30 58.90	248.58	15 15.3	196.3	45.73	66	3 11.08	12.02	27 47.818	
	30	金	6 35 7.48	248.34	+23 11 59.0	− 220.6	15 45.72	8.66	− 3 23.10	−11.79	18 31 44.370	
7	1	土	6 39 15.82		+23 8 18.4		15 45.71	8.66	− 3 34.89		18 35 40.923	

通日	月	日	世界時 0h 視黄経		黄緯 平均	黄緯 視	地球ノ動径（對數）	黄經ノ歲差	黄經ノ章動 長	黄經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0h＝對スル世界時
			° ′ ″	″	″	″		″	″	″	s	s	h m s
122	5	1	40 29 28.8	3492.0	−0.10	+0.01	0.0033661	+16.59	−15.98	+0.19	−0.978	+0.013	9 23 16.47
123		2	41 27 40.8	3490.1	+0.02	13	4720	73	16.00	+0.18	979	+0.011	19 20.57
124		3	42 25 50.9	3488.1	12	24	5770	16.86	02	+0.12	980	+0.008	15 24.66
125		4	43 23 59.0	3486.2	20	32	6812	17.00	03	+0.06	980	+0.003	11 28.75
126		5	44 22 5.2	3484.4	26	38	7847	14	04	−0.03	981	−0.002	7 32.84
127		6	45 20 9.6	3482.6	+0.29	+0.42	0.0038874	+17.28	−16.05	−0.13	−0.981	−0.008	9 3 36.93
128		7	46 18 12.2	3480.9	29	42	0.0039894	41	06	−0.19	982	−0.012	8 59 41.02
129		8	47 16 13.1	3479.2	28	41	0.0040907	55	06	−0.24	982	−0.014	55 45.11
130		9	48 14 12.3	3477.7	23	36	1914	69	07	−0.25	983	−0.014	51 49.20
131		10	49 12 10.0	3476.2	16	30	2914	83	07	−0.21	983	−0.012	47 53.29
132		11	50 10 6.2	3474.8	+0.06	+0.20	0.0043907	+17.96	−16.07	−0.14	−0.983	−0.007	8 43 57.38
133		12	51 8 1.0	3473.5	−0.05	+0.09	4892	18.10	07	−0.03	983	−0.002	40 1.47
134		13	52 5 54.5	3472.2	18	−0.04	5868	24	07	+0.07	982	+0.004	36 5.57
135		14	53 3 46.7	3471.1	31	16	6834	38	07	+0.15	982	+0.009	32 9.66
136		15	54 1 37.8	3469.9	45	30	7788	51	07	+0.19	982	+0.011	28 13.75
137		16	54 59 27.7	3468.7	−0.57	−0.42	0.0048728	+18.65	−16.06	+0.15	−0.982	+0.010	8 24 17.84
138		17	55 57 16.4	3467.6	67	52	0.0049653	79	05	+0.11	981	+0.007	20 21.93
139		18	56 55 4.0	3466.5	75	59	0.0050561	18.93	04	+0.02	981	+0.002	16 26.02
140		19	57 52 50.5	3465.4	79	63	1451	19.06	03	−0.06	980	−0.004	12 30.11
141		20	58 50 35.9	3464.1	81	65	2320	20	02	−0.12	979	−0.008	8 34.20
142		21	59 48 20.0	3462.9	−0.79	−0.63	0.0053169	+19.34	−16.01	−0.15	−0.978	−0.010	8 4 38.29
143		22	60 46 2.9	3461.7	76	59	3996	48	15.99	−0.14	978	−0.009	8 0 42.38
144		23	61 43 44.6	3460.3	68	51	4801	62	98	−0.07	977	−0.006	7 56 46.47
145		24	62 41 24.9	3459.0	59	42	5584	75	96	0.00	976	−0.001	52 50.55
146		25	63 39 3.9	3457.5	47	30	6346	19.89	95	+0.07	975	+0.004	48 54.64
147		26	64 36 41.4	3456.2	−0.35	−0.17	0.0057085	+20.03	−15.93	+0.14	−0.974	+0.009	7 44 58.73
148		27	65 34 17.6	3454.8	22	−0.04	7805	17	91	+0.18	973	+0.012	41 2.82
149		28	66 31 52.4	3453.5	−0.09	+0.09	8504	30	89	+0.20	972	+0.013	37 6.91
150		29	67 29 25.9	3452.0	+0.03	21	9185	44	87	+0.18	971	+0.012	33 11.00
151		30	68 26 57.9	3450.8	12	31	0.0059847	58	86	+0.14	970	+0.009	29 15.09
152		31	69 24 28.7	3449.4	+0.21	+0.40	0.0060492	+20.72	−15.84	+0.07	−0.968	+0.004	7 25 19.18
153	6	1	70 21 58.1	3448.1	28	47	1121	85	81	−0.01	967	−0.001	21 23.27
154		2	71 19 26.2	3447.0	33	52	1733	20.99	79	−0.11	966	−0.006	17 27.36
155		3	72 16 53.2	3445.7	35	54	2331	21.13	77	−0.17	965	−0.011	13 31.45
156		4	73 14 18.9	3444.7	32	52	2916	27	75	−0.22	963	−0.014	9 35.54
157		5	74 11 43.6	3443.7	+0.28	+0.48	0.0063486	+21.40	−15.72	−0.25	−0.961	−0.015	7 5 39.63
158		6	75 9 7.3	3442.7	21	41	4043	54	69	−0.23	959	−0.013	7 1 43.71
159		7	76 6 30.0	3441.9	13	33	4588	68	66	−0.17	958	−0.009	6 57 47.80
160		8	77 3 51.9	3441.1	+0.02	22	5121	82	63	−0.05	956	−0.003	53 51.89
161		9	78 1 13.0	3440.5	−0.11	+0.09	5641	21.96	60	+0.05	954	+0.003	49 55.98
162		10	78 58 33.5	3440.0	−0.26	−0.05	0.0066148	+22.09	−15.57	+0.14	−0.952	+0.008	6 46 0.07
163		11	79 55 53.5	3439.5	39	18	6641	23	54	+0.18	950	+0.011	42 4.16
164		12	80 53 13.0	3439.0	51	30	7119	37	51	+0.19	948	+0.011	38 8.25
165		13	81 50 32.0	3438.8	61	40	7578	51	48	+0.15	947	+0.009	34 12.34
166		14	82 47 50.8	3438.3	70	49	8020	64	45	+0.07	945	+0.004	30 16.42
167		15	83 45 9.1	3438.1	−0.76	−0.55	0.0068442	+22.78	−15.42	−0.03	−0.943	−0.001	6 26 20.51
168		16	84 42 27.2	3437.8	79	58	8842	22.92	39	−0.10	941	−0.006	22 24.60
169		17	85 39 45.0	3437.4	78	56	9220	23.06	36	−0.14	940	−0.009	18 28.69
170		18	86 37 2.4	3437.1	73	51	9574	19	33	−0.15	938	−0.009	14 32.78
171		19	87 34 19.5	3436.7	66	44	0.0069903	33	30	−0.10	936	−0.007	10 36.87
172		20	88 31 36.2	3436.3	−0.56	−0.34	0.0070206	+23.47	−15.27	−0.04	−0.934	−0.003	6 6 40.96
173		21	89 28 52.5	3435.8	45	23	0483	61	24	+0.05	932	+0.002	6 2 45.05
174		22	90 26 8.3	3435.5	31	−0.09	0735	74	21	+0.13	930	+0.007	5 58 49.13
175		23	91 23 23.8	3434.9	18	+0.04	0960	23.88	17	+0.17	928	+0.011	54 53.22
176		24	92 20 38.7	3434.4	−0.05	17	1161	24.02	14	+0.20	926	+0.012	50 57.31
177		25	93 17 53.1	3434.0	+0.08	+0.30	0.0071337	+24.16	−15.11	+0.19	−0.924	+0.012	5 47 1.40
178		26	94 15 7.1	3433.5	20	42	1489	29	08	+0.15	922	+0.010	43 5.49
179		27	95 12 20.6	3432.9	29	51	1619	43	04	+0.11	920	+0.006	39 9.58
180		28	96 9 33.5	3432.6	35	58	1727	57	15.01	+0.02	918	+0.001	35 13.67
181		29	97 6 46.1	3432.1	40	63	1813	71	14.98	−0.07	916	−0.005	31 17.75
182		30	98 3 58.2	3431.7	+0.42	+0.65	0.0071880	+24.85	−14.95	−0.15	−0.914	−0.010	5 27 21.84
183	7	1	99 1 9.9		+0.42	+0.65	0.0071926	+24.98	−14.92	−0.22	−0.913	−0.014	5 23 25.93

月	日	七曜	視赤経		視赤緯		視半径	地平視差	時差率（視時−平時）		恒星時	
			h m s	s	° ′ ″	″	′ ″	″	m s	s	h m s	
7	1	土	6 39 15.82	248.08	+23 8 18.4	− 244.9	15 45.71	8.66	− 3 34.89	−11.51	18 35 40.923	
	2	日	43 23.90	247.79	23 4 13.5	269.1	45.70	66	46.40	11.23	39 37.478	
	3	月	47 31.69	247.48	22 59 44.4	293.1	45.70	66	3 57.63	10.93	43 34.037	
	4	火	51 39.17	247.17	54 51.3	317.1	45.70	66	4 8.56	10.61	47 30.598	
	5	水	55 46.34	246.83	49 34.2	340.9	45.70	66	19.17	10.27	51 27.161	
	6	木	6 59 53.17	246.48	+22 43 53.3	− 364.5	15 45.71	8.66	− 4 29.44	− 9.93	18 55 23.725	
	7	金	7 3 59.65	246.12	37 48.8	388.1	45.72	66	39.37	9.56	18 59 20.288	
	8	土	8 5.77	245.74	31 20.7	411.4	45.73	66	48.93	9.18	19 3 16.849	
	9	日	12 11.51	245.35	24 29.3	434.6	45.75	66	4 58.11	8.80	7 13.407	
	10	月	16 16.86	244.95	17 14.7	457.7	45.77	66	5 6.91	8.39	11 9.963	
	11	火	7 20 21.81	244.53	+22 9 37.0	− 480.6	15 45.79	8.66	− 5 15.30	− 7.98	19 15 6.514	
	12	水	24 26.34	244.10	22 1 36.4	503.2	45.82	66	23.28	7.54	19 3.066	
	13	木	28 30.44	243.66	21 53 13.2	525.8	45.85	66	30.82	7.10	22 59.618	
	14	金	32 34.10	243.19	44 27.4	548.0	45.89	66	37.92	6.63	26 56.171	
	15	土	36 37.29	242.72	35 19.4	570.1	45.93	66	44.55	6.16	30 52.727	
	16	日	7 40 40.01	242.22	+21 25 49.3	− 592.1	15 45.97	8.66	− 5 50.71	− 5.67	19 34 49.285	
	17	月	44 42.23	241.72	15 57.2	613.7	46.02	66	5 56.38	5.16	38 45.845	
	18	火	48 43.95	241.19	21 5 43.5	635.1	46.08	66	6 1.54	4.64	42 42.406	
	19	水	52 45.14	240.65	20 55 8.4	656.4	46.14	66	6.18	4.09	46 38.967	
	20	木	7 56 45.79	240.10	44 12.0	677.3	46.21	66	10.27	3.55	50 35.528	
	21	金	8 0 45.89	239.54	+20 32 54.7	− 698.0	15 46.28	8.66	− 6 13.82	− 2.98	19 54 32.086	
	22	土	4 45.43	238.96	21 16.7	718.5	46.36	66	16.80	2.41	19 58 28.642	
	23	日	8 44.39	238.38	20 9 18.2	738.8	46.45	66	19.21	1.82	20 2 25.197	
	24	月	12 42.77	237.77	19 56 59.4	758.7	46.54	66	21.03	1.22	6 21.749	
	25	火	16 40.54	237.18	44 20.7	778.4	46.63	66	22.25	0.62	10 18.301	
	26	水	8 20 37.72	236.57	+19 31 22.3	− 797.7	15 46.73	8.66	− 6 22.87	− 0.01	20 14 14.851	
	27	木	24 34.29	235.95	18 4.6	816.9	46.83	67	22.88	+ 0.60	18 11.402	
	28	金	28 30.24	235.33	19 4 27.7	835.8	46.94	67	22.28	1.23	22 7.953	
	29	土	32 25.57	234.71	18 50 31.9	854.3	47.05	67	21.05	1.85	26 4.506	
	30	日	36 20.28	234.08	36 17.6	872.7	47.17	67	19.20	2.47	30 1.061	
	31	月	8 40 14.36	233.46	+18 21 44.9	− 890.6	15 47.29	8.67	− 6 16.73	+ 3.09	20 33 57.619	
8	1	火	44 7.82	232.84	18 6 54.3	908.3	47.41	67	13.64	3.72	37 54.179	
	2	水	48 0.66	232.23	17 51 46.0	925.8	47.54	67	9.92	4.33	41 50.741	
	3	木	51 52.89	231.61	36 20.2	942.9	47.67	67	5.59	4.95	45 47.303	
	4	金	55 44.50	231.00	20 37.3	959.7	47.80	67	6 0.64	5.55	49 43.863	
	5	土	8 59 35.50	230.41	+17 4 37.6	− 976.3	15 47.93	8.68	− 5 55.09	+ 6.14	20 53 40.421	
	6	日	9 3 25.91	229.83	16 48 21.3	992.7	48.07	68	48.95	6.73	20 57 36.975	
	7	月	7 15.74	229.24	31 48.6	1008.6	48.21	68	42.22	7.31	21 1 33.527	
	8	火	11 4.98	228.68	16 15 0.0	1024.4	48.35	68	34.91	7.88	5 30.077	
	9	水	14 53.66	228.11	15 57 55.6	1039.8	48.49	68	27.03	8.44	9 26.627	
	10	木	9 18 41.77	227.56	+15 40 35.8	−1054.9	15 48.64	8.68	− 5 18.59	+ 9.00	21 13 23.177	
	11	金	22 29.33	227.01	23 0.9	1069.7	48.79	68	9.59	9.54	17 19.730	
	12	土	26 16.34	226.48	15 5 11.2	1084.3	48.95	69	5 0.05	10.08	21 16.285	
	13	日	30 2.82	225.94	14 47 6.9	1098.5	49.11	69	4 49.97	10.61	25 12.843	
	14	月	33 48.76	225.41	28 48.4	1112.4	49.27	69	39.36	11.15	29 9.401	
	15	火	9 37 34.17	224.89	+14 10 16.0	−1126.1	15 49.44	8.69	− 4 28.21	+11.66	21 33 5.960	
	16	水	41 19.06	224.37	13 51 29.9	1139.2	49.61	69	16.55	12.19	37 2.519	
	17	木	45 3.43	223.86	32 30.7	1152.2	49.79	69	4 4.36	12.69	40 59.076	
	18	金	48 47.29	223.36	13 13 18.5	1164.9	49.97	70	3 51.67	13.19	44 55.630	
	19	土	52 30.65	222.87	12 53 53.6	1177.1	50.16	70	38.48	13.68	48 52.183	
	20	日	9 56 13.52	222.39	+12 34 16.5	−1189.1	15 50.35	8.70	− 3 24.80	+14.17	21 52 48.734	
	21	月	9 59 55.91	221.91	12 14 27.4	1200.6	50.54	70	3 10.63	14.64	21 56 45.283	
	22	火	10 3 37.82	221.44	11 54 26.8	1212.0	50.74	70	2 55.99	15.11	22 0 41.831	
	23	水	7 19.26	221.00	34 14.8	1223.0	50.94	70	40.88	15.56	4 38.380	
	24	木	11 0.26	220.55	11 13 51.8	1233.6	51.15	71	25.32	16.00	8 34.928	
	25	金	10 14 40.81	220.12	+10 53 18.2	−1243.9	15 51.36	8.71	− 2 9.32	+16.44	22 12 31.478	
	26	土	18 20.93	219.70	32 34.3	1253.8	51.57	71	1 52.88	16.85	16 28.030	
	27	日	22 0.63	219.30	10 11 40.5	1263.6	51.79	71	36.03	17.25	20 24.584	
	28	月	25 39.93	218.92	9 50 36.9	1272.8	52.01	71	18.78	17.64	24 21.142	
	29	火	29 18.85	218.54	29 24.1	1281.8	52.23	72	1 1.14	18.00	28 17.700	
	30	水	10 32 57.39	218.20	+ 9 8 2.3	−1290.4	15 52.46	8.72	− 0 43.14	+18.36	22 32 14.259	
	31	木	36 35.59	217.85	8 46 31.9	−1298.8	52.68	72	24.78	+18.70	36 10.817	
9	1	金	10 40 13.44		+ 8 24 53.1		15 52.91	8.72	− 0 6.08		22 40 7.374	

通日	月	日	世界時 0h 視黄経		黄緯 平均	黄緯 視	地球ノ動径（對數）	黄経ノ歳差	黄経ノ章動 長	黄経ノ章動 短	赤径ノ章動 長	赤径ノ章動 短	恒星時 0h ニ對スル世界時
			° ′ ″	″	″	″		″	″	″	s	s	h m s
183	7	1	99 1 9.9	3431.4	+0.42	+0.65	0.0071926	+24.98	−14.92	−0.22	−0.913	−0.014	5 23 25.93
184		2	99 58 21.3	3431.1	38	61	1956	25.12	89	−0.26	911	−0.016	19 30.02
185		3	100 55 32.4	3430.9	32	55	1967	26	86	−0.26	909	−0.015	15 34.11
186		4	101 52 43.3	3430.7	23	46	1963	40	83	−0.19	907	−0.011	11 38.20
187		5	102 49 54.0	3430.7	+0.12	35	1944	53	80	−0.10	905	−0.006	7 42.29
188		6	103 47 4.7	3430.7	−0.01	+0.22	0.0071910	+25.67	−14.77	+0.01	−0.904	+0.001	5 3 46.37
189		7	104 44 15.4	3430.8	14	+0.09	1863	81	75	+0.11	902	+0.007	4 59 50.46
190		8	105 41 26.2	3431.2	27	−0.04	1801	25.95	72	+0.17	901	+0.011	55 54.55
191		9	106 38 37.4	3431.5	40	17	1726	26.08	69	+0.21	899	+0.012	51 58.64
192		10	107 35 48.9	3431.9	51	28	1635	22	67	+0.17	898	+0.011	48 2.73
193		11	108 33 0.8	3432.4	−0.60	−0.37	0.0071528	+26.36	−14.65	+0.11	−0.896	+0.006	4 44 6.82
194		12	109 30 13.2	3433.0	66	44	1403	50	63	+0.01	895	+0.001	40 10.91
195		13	110 27 26.2	3433.7	69	47	1259	63	60	−0.06	893	−0.004	36 15.00
196		14	111 24 39.9	3434.2	69	47	1094	77	58	−0.12	892	−0.008	32 19.09
197		15	112 21 54.1	3434.8	65	43	0908	26.91	56	−0.13	891	−0.009	28 23.18
198		16	113 19 8.9	3435.5	−0.58	−0.36	0.0070699	+27.05	−14.54	−0.11	−0.890	−0.007	4 24 27.27
199		17	114 16 24.4	3436.0	50	28	0466	18	52	−0.05	889	−0.004	20 31.35
200		18	115 13 40.4	3436.6	39	17	0.0070208	32	50	+0.03	887	+0.001	16 35.44
201		19	116 10 57.0	3437.2	26	−0.04	0.0069925	46	49	+0.10	886	+0.006	12 39.53
202		20	117 8 14.2	3437.6	−0.12	+0.10	9617	60	47	+0.17	885	+0.010	8 43.62
203		21	118 5 31.8	3438.2	+0.01	+0.23	0.0069283	+27.74	−14.46	+0.20	−0.884	+0.012	4 4 47.71
204		22	119 2 50.0	3438.7	16	37	8924	27.87	44	+0.19	883	+0.012	4 0 51.80
205		23	120 0 8.7	3439.1	28	49	8541	28.01	43	+0.17	883	+0.011	3 56 55.89
206		24	120 57 27.8	3439.6	38	59	8133	15	42	+0.12	882	+0.007	52 59.98
207		25	121 54 47.4	3440.1	45	66	7702	29	41	+0.04	882	+0.003	49 4.07
208		26	122 52 7.5	3440.5	−0.51	+0.72	0.0067248	+28.42	−14.40	−0.05	−0.881	−0.003	3 45 8.16
209		27	123 49 28.0	3441.1	54	75	6773	56	39	−0.14	880	−0.008	41 12.25
210		28	124 46 49.1	3441.5	56	76	6277	70	38	−0.21	880	−0.013	37 16.34
211		29	125 44 10.6	3442.0	55	75	5762	84	38	−0.26	879	−0.016	33 20.43
212		30	126 41 32.6	3442.5	49	69	5228	28.97	37	−0.26	879	−0.016	29 24.52
213		31	127 38 55.1	3443.2	+0.41	+0.61	0.0064679	+29.11	−14.37	−0.23	−0.879	−0.014	3 25 28.61
214	8	1	128 36 18.3	3443.8	30	50	4113	25	37	−0.16	879	−0.009	21 32.70
215		2	129 33 42.1	3444.5	19	38	3533	39	37	−0.04	880	−0.003	17 36.79
216		3	130 31 6.6	3445.4	+0.06	25	2939	52	37	+0.07	880	+0.004	13 40.89
217		4	131 28 32.0	3446.2	−0.07	+0.12	2334	66	38	+0.16	880	+0.009	9 44.98
218		5	132 25 58.2	3447.3	−0.21	−0.02	0.0061718	+29.80	−14.38	+0.19	−0.880	+0.012	3 5 49.07
219		6	133 23 25.5	3448.5	31	13	1090	29.94	39	+0.19	880	+0.011	3 1 53.16
220		7	134 20 54.0	3449.7	41	23	0.0060451	30.07	40	+0.14	881	+0.008	2 57 57.25
221		8	135 18 23.7	3451.0	49	31	0.0059801	21	41	+0.05	882	+0.003	54 1.34
222		9	136 15 54.7	3452.4	55	37	9137	35	42	−0.03	882	−0.002	50 5.43
223		10	137 13 27.1	3453.8	−0.55	−0.38	0.0058460	+30.49	−14.43	−0.09	−0.883	−0.006	2 46 9.52
224		11	138 11 0.9	3455.3	52	35	7767	63	44	−0.12	884	−0.008	42 13.61
225		12	139 8 36.2	3456.8	46	29	7058	76	46	−0.11	885	−0.007	38 17.70
226		13	140 6 13.0	3458.2	36	20	6330	30.90	47	−0.05	885	−0.004	34 21.80
227		14	141 3 51.2	3459.7	26	−0.10	5584	31.04	49	+0.02	886	0.000	30 25.89
228		15	142 1 30.9	3461.2	−0.13	+0.03	0.0054818	+31.18	−14.51	+0.10	−0.888	+0.005	2 26 29.98
229		16	142 59 12.1	3462.6	0.00	15	4033	31	53	+0.16	889	+0.010	22 34.07
230		17	143 56 54.7	3464.0	+0.13	28	3226	45	55	+0.19	891	+0.012	18 38.16
231		18	144 54 38.7	3465.4	26	41	2399	59	58	+0.20	892	+0.013	14 42.25
232		19	145 52 24.1	3466.8	40	54	1551	73	60	+0.19	894	+0.012	10 46.35
233		20	146 50 10.9	3468.1	+0.50	+0.64	0.0050683	+31.86	−14.63	+0.13	−0.895	+0.009	2 6 50.44
234		21	147 47 59.0	3469.4	60	73	0.0049795	32.00	65	+0.08	897	+0.004	2 2 54.53
235		22	148 45 48.4	3470.7	66	79	8888	14	68	−0.03	898	−0.001	1 58 58.62
236		23	149 43 39.1	3472.0	70	83	7961	28	71	−0.11	900	−0.006	55 2.72
237		24	150 41 31.1	3473.2	72	84	7017	41	74	−0.18	902	−0.011	51 6.81
238		25	151 39 24.3	3474.5	+0.70	+0.82	0.0046056	+32.55	−14.77	−0.23	−0.904	−0.015	1 47 10.90
239		26	152 37 18.8	3475.8	67	78	5079	69	80	−0.26	906	−0.016	43 14.99
240		27	153 35 14.6	3477.1	59	70	4087	83	83	−0.26	908	−0.015	39 19.09
241		28	154 33 11.7	3478.3	50	60	3082	32.96	87	−0.20	910	−0.011	35 23.18
242		29	155 31 10.0	3479.7	39	49	2065	33.10	90	−0.09	912	−0.006	31 27.27
243		30	156 29 9.7	3481.0	+0.26	+0.36	0.0041039	+33.24	−14.94	+0.01	−0.914	+0.001	1 27 31.36
244		31	157 27 10.7	3482.4	+0.13	22	0.0040004	38	14.98	+0.10	916	+0.006	23 35.46
245	9	1	153 25 13.1		0.00	+0.09	0.0038962	+33.52	−15.02	+0.16	−0.919	+0.010	1 19 39.55

月	日	七曜	視赤経 h m s	s	視赤緯 ° ′ ″	″	視半径 ′ ″	地平視差 ″	時差率（視時−平時） m s	s	恒星時 h m s
9	1	金	10 40 13.44	217.55	+ 8 24 53.1	−1306.9	15 52.91	8.72	− 0 6.08	+19.01	22 40 7.374
	2	土	43 50.99	217.26	8 3 6.2	1314.6	53.14	72	+ 0 12.93	19.29	44 3.928
	3	日	47 28.25	216.99	7 41 11.6	1322.0	53.37	73	32.22	19.56	48 0.479
	4	月	51 5.24	216.74	7 19 9.6	1329.2	53.60	73	0 51.78	19.81	51 57.027
	5	火	54 41.98	216.53	6 57 0.4	1336.0	53.84	73	1 11.59	20.03	55 53.575
	6	水	10 58 18.51	216.32	+ 6 34 44.4	−1342.6	15 54.07	8.73	+ 1 31.62	+20.24	22 59 50.123
	7	木	11 1 54.83	216.14	6 12 21.8	1348.7	54.31	73	1 51.86	20.41	23 3 46.674
	8	金	5 30.97	215.98	5 49 53.1	1354.8	54.54	74	2 12.27	20.57	7 43.227
	9	土	9 6.95	215.84	27 18.3	1360.3	54.78	74	32.84	20.71	11 39.782
	10	日	12 42.79	215.72	5 4 38.0	1365.6	55.02	74	2 53.55	20.83	15 36.339
	11	月	11 16 18.51	215.61	+ 4 41 52.4	−1370.6	15 55.27	8.74	+ 3 14.38	+20.95	23 19 32.897
	12	火	19 54.12	215.52	4 19 1.8	1375.2	55.51	75	35.33	21.03	23 29.454
	13	水	23 29.64	215.46	3 56 6.6	1379.4	55.76	75	3 56.36	21.10	27 26.010
	14	木	27 5.10	215.39	33 7.2	1383.4	56.01	75	4 17.46	21.15	31 22.564
	15	金	30 40.49	215.36	3 10 3.8	1387.0	56.26	75	38.61	21.19	35 19.114
	16	土	11 34 15.85	215.34	+ 2 46 56.8	−1390.3	15 56.52	8.76	+ 4 59.80	+21.21	23 39 15.663
	17	日	37 51.19	215.34	23 46.5	1393.1	56.78	76	5 21.01	21.22	43 12.212
	18	月	41 26.53	215.35	2 0 33.4	1395.7	57.04	76	5 42.23	21.20	47 8.759
	19	火	45 1.88	215.38	1 37 17.7	1397.9	57.30	76	6 3.43	21.17	51 5.306
	20	水	48 37.26	215.43	1 13 59.8	1399.8	57.57	76	24.60	21.13	55 1.854
	21	木	11 52 12.69	215.50	+ 0 50 40.0	−1401.2	15 57.84	8.77	+ 6 45.73	+21.05	23 58 58.402
	22	金	55 48.19	215.58	27 18.8	1402.3	58.11	77	7 6.78	20.97	0 2 54.952
	23	土	11 59 23.77	215.68	+ 0 3 56.5	1403.2	58.38	77	27.75	20.87	6 51.505
	24	日	12 2 59.45	215.80	− 0 19 26.7	1403.5	58.66	77	7 48.62	20.75	10 48.059
	25	月	6 35.25	215.95	0 42 50.2	1403.6	58.94	78	8 9.37	20.61	14 44.617
	26	火	12 10 11.20	216.10	− 1 6 13.8	−1403.3	15 59.22	8.78	+ 8 29.98	+20.45	0 18 41.175
	27	水	13 47.30	216.29	29 37.1	1402.6	59.49	78	8 50.43	20.26	22 37.733
	28	木	17 23.59	216.49	1 52 59.7	1401.7	15 59.77	78	9 10.69	20.07	26 34.290
	29	金	21 0.08	216.71	2 16 21.4	1400.3	16 0.05	79	30.76	19.83	30 30.844
	30	土	24 36.79	216.97	2 39 41.7	1398.7	0.33	79	9 50.59	19.59	34 27.395
10	1	日	12 28 13.76	217.25	− 3 3 0.4	−1396.7	16 0.61	8.79	+10 10.18	+19.31	0 38 23.944
	2	月	31 51.01	217.54	26 17.1	1394.3	0.89	79	29.49	19.00	42 20.491
	3	火	35 28.55	217.87	3 49 31.4	1391.7	1.16	80	10 48.49	18.69	46 17.039
	4	水	39 6.42	218.22	4 12 43.1	1388.7	1.44	80	11 7.18	18.33	50 13.587
	5	木	42 44.64	218.60	35 51.8	1385.4	1.71	80	25.51	17.95	54 10.140
	6	金	12 46 23.24	219.00	− 4 58 57.2	−1381.8	16 1.98	8.80	+11 43.46	+17.55	0 58 6.695
	7	土	50 2.24	219.42	5 21 59.0	1377.8	2.25	81	12 1.01	17.14	1 2 3.251
	8	日	53 41.66	219.85	5 44 56.3	1373.4	2.52	81	18.15	16.70	5 59.810
	9	月	12 57 21.51	220.31	6 7 50.2	1368.7	2.79	81	34.85	16.24	9 56.368
	10	火	13 1 1.82	220.80	30 38.9	1363.6	3.06	81	12 51.09	15.76	13 52.925
	11	水	13 4 42.62	221.28	− 6 53 22.5	−1358.2	16 3.33	8.82	+13 6.85	+15.27	1 17 49.480
	12	木	8 23.90	221.80	7 16 0.7	1352.3	3.60	82	22.12	14.75	21 46.032
	13	金	12 5.70	222.32	7 38 33.0	1346.1	3.87	82	36.87	14.23	25 42.583
	14	土	15 48.02	222.87	8 0 59.1	1339.4	4.14	83	13 51.10	13.69	29 39.132
	15	日	19 30.89	223.43	23 18.5	1332.5	4.42	83	14 4.79	13.12	33 35.680
	16	月	13 23 14.32	224.00	− 8 45 31.0	−1325.0	16 4.69	8.83	+14 17.91	+12.55	1 37 32.228
	17	火	26 58.32	224.59	9 7 36.0	1317.2	4.96	83	30.46	11.96	41 28.776
	18	水	30 42.91	225.20	29 33.2	1309.0	5.23	83	42.42	11.37	45 25.326
	19	木	34 28.11	225.80	9 51 22.2	1300.4	5.51	84	14 53.79	10.74	49 21.876
	20	金	38 13.91	226.44	10 13 2.6	1291.3	5.78	84	15 4.53	10.11	53 18.429
	21	土	13 42 0.35	227.09	−10 34 33.9	−1281.8	16 6.05	8.84	+15 14.64	+ 9.48	1 57 14.984
	22	日	45 47.44	227.73	10 55 55.7	1272.0	6.32	84	24.12	8.81	2 1 11.541
	23	月	49 35.17	228.40	11 17 7.7	1261.7	6.60	85	32.93	8.15	5 8.101
	24	火	53 23.57	229.09	38 9.4	1251.0	6.87	85	41.08	7.47	9 4.659
	25	水	13 57 12.66	229.78	11 59 0.4	1240.0	7.14	85	48.55	6.78	13 1.218
	26	木	14 1 2.44	230.48	−12 19 40.4	−1228.4	16 7.41	8.85	+15 55.33	+ 6.07	2 16 57.774
	27	金	4 52.92	231.21	12 40 8.8	1216.6	7.68	86	16 1.40	5.34	20 54.328
	28	土	8 44.13	231.94	13 0 25.4	1204.2	7.95	86	6.74	4.61	24 50.879
	29	日	12 36.07	232.70	20 29.6	1191.6	8.21	86	11.35	3.86	28 47.428
	30	月	16 28.77	233.46	40 21.2	1178.5	8.47	86	15.21	3.10	32 43.977
	31	火	14 20 22.23	234.25	−13 59 59.7	−1165.1	16 8.72	8.87	+16 18.31	+ 2.30	2 36 40.527
11	1	水	14 24 16.48		−14 19 24.8		16 8.98	8.87	+16 20.61		2 40 37.079

通日	月	日	世界時 0h 視黄経 ° ′ ″	″	黄緯 平均 ″	黄緯 視 ″	地球ノ動径（對數）	黄経ノ歳差 ″	黄経ノ章動 長 ″	黄経ノ章動 短 ″	赤経ノ章動 長 s	赤経ノ章動 短 s	恒星時0h ニ對スル世界時 h m s
245	9	1	158 25 13.1	3484.0	0.00	+0.09	0.0038962	+33.52	−15.02	+0.16	−0.919	+0.010	1 19 39.55
246		2	159 23 17.1	3485.6	−0.12	−0.04	7915	65	06	+0.18	921	+0.011	15 43.64
247		3	160 21 22.7	3487.2	23	15	6862	79	09	+0.13	924	+0.009	11 47.74
248		4	161 19 29.9	3489.1	30	23	5805	33.93	13	+0.08	926	+0.004	7 51.83
249		5	162 17 39.0	3491.0	35	28	4744	34.07	18	−0.03	928	−0.001	3 55.92
250		6	163 15 50.0	3492.9	−0.37	−0.31	0.0033678	+34.20	−15.22	−0.08	−0.931	−0.006	1 0 0.01
251		7	164 14 2.9	3495.0	36	30	2607	34	26	−0.12	933	−0.008	0 56 4.11
252		8	165 12 17.9	3497.1	31	26	1529	48	30	−0.11	936	−0.008	52 8.20
253		9	166 10 35.0	3499.2	24	19	0.0030444	·62	35	−0.08	939	−0.005	48 12.29
254		10	167 8 54.2	3501.3	13	−0.09	0.0029350	75	39	0.00	942	−0.001	44 16.39
255		11	168 7 15.5	3503.4	−0.01	+0.03	0.0028247	+34.89	−15.44	+0.08	−0.945	+0.005	0 40 20.48
256		12	169 5 38.9	3505.4	+0.12	15	7132	35.03	49	+0.15	948	+0.009	36 24.57
257		13	170 4 4.3	3507.6	25	27	6006	17	54	+0.21	951	+0.013	32 28.67
258		14	171 2 31.9	3509.6	37	39	4868	30	59	+0.22	954	+0.014	28 32.76
259		15	172 1 1.5	3511.5	50	51	3719	44	64	+0.21	957	+0.013	24 36.86
260		16	172 59 33.0	3513.6	+0.61	+0.62	0.0022557	+35.58	−15.69	+0.17	−0.960	+0.010	0 20 40.95
261		17	173 58 6.6	3515.5	70	70	1383	72	74	+0.11	963	+0.006	16 45.04
262		18	174 56 42.1	3517.3	77	77	0.0020196	86	79	+0.01	966	+0.001	12 49.14
263		19	175 55 19.4	3519.3	82	81	0.0018998	35.99	84	−0.07	969	−0.004	8 53.23
264		20	176 53 58.7	3521.1	84	82	7788	36.13	89	−0.16	972	−0.009	4 57.32
265		21	177 52 39.8	3522.8	+0.81	+0.79	0.0016568	+36.27	−15.94	−0.22	−0.975	−0.013	{0 1 1.42 / 23 57 5.51}
266		22	178 51 22.6	3524.7	77	74	5338	41	15.99	−0.27	978	−0.015	23 59 3.60
267		23	179 50 7.3	3526.4	71	68	4100	54	16.04	−0.26	981	−0.015	49 13.69
268		24	180 48 53.7	3528.1	63	59	2853	68	09	−0.21	984	−0.013	45 17.79
269		25	181 47 41.8	3529.8	53	49	1601	82	14	−0.13	987	−0.008	41 21.88
270		26	182 46 31.6	3531.5	+0.41	+0.36	0.0010344	+36.96	−16.19	−0.02	−0.990	−0.002	23 37 25.98
271		27	183 45 23.1	3533.2	29	23	0.0009083	37.09	24	+0.06	993	+0.004	33 30.07
272		28	184 44 16.3	3535.0	16	+0.10	7821	23	29	+0.13	996	+0.008	29 34.16
273		29	185 43 11.3	3536.8	+0.04	−0.03	6560	37	34	+0.16	0.999	+0.010	25 38.26
274		30	186 42 8.1	3538.6	−0.06	14	5300	51	39	+0.14	1.002	+0.009	21 42.35
275	10	1	187 41 6.7	3540.5	−0.15	−0.23	0.0004045	+37.64	−16.44	+0.08	−1.005	+0.005	23 17 46.44
276		2	188 40 7.2	3542.6	21	30	2793	78	49	−0.02	008	0.000	13 50.54
277		3	189 39 9.8	3544.6	23	32	1548	37.92	53	−0.08	011	−0.005	9 54.63
278		4	190 38 14.4	3546.9	22	32	0.0000308	38.06	58	−0.13	013	−0.009	5 58.72
279		5	191 37 21.3	3549.1	17	28	9.9999074	19	63	−0.14	016	−0.009	23 2 2.82
280		6	192 36 30.4	3551.4	−0.10	−0.21	9.9997844	+38.33	−16.67	−0.10	−1.019	−0.007	22 58 6.91
281		7	193 35 41.8	3553.7	−0.01	13	6618	47	71	−0.05	022	−0.003	54 11.00
282		8	194 34 55.5	3556.0	+0.11	−0.02	5395	61	75	+0.06	024	+0.003	50 15.10
283		9	195 34 11.5	3558.4	23	+0.10	4174	75	80	+0.13	027	+0.008	46 19.19
284		10	196 33 29.9	3560.7	37	23	2954	38.88	84	+0.19	030	+0.013	42 23.28
285		11	197 32 50.6	3563.0	+0.50	+0.36	9.9991734	+39.02	−16.88	+0.23	−1.032	+0.015	22 38 27.38
286		12	198 32 13.6	3565.2	63	48	9.9990513	16	92	+0.22	035	+0.014	34 31.47
287		13	199 31 38.8	3567.5	74	58	9.9989293	30	16.97	+0.20	037	+0.012	30 35.56
288		14	200 31 6.3	3569.6	82	66	8071	43	17.01	+0.15	040	+0.008	26 39.65
289		15	201 30 35.9	3571.9	89	72	6847	57	04	+0.06	042	+0.003	22 43.75
290		16	202 30 7.8	3573.8	+0.94	+0.76	9.9985621	+39.71	−17.08	−0.04	−1.045	−0.002	22 18 47.84
291		17	203 29 41.6	3576.0	95	77	4393	85	12	−0.12	047	−0.007	14 51.93
292		18	204 29 17.6	3577.9	94	75	3164	39.98	16	−0.18	049	−0.011	10 56.02
293		19	205 28 55.5	3579.8	91	72	1935	40.12	19	−0.23	051	−0.014	7 0.12
294		20	206 28 35.3	3581.7	85	65	9.9980705	26	22	−0.26	053	−0.014	22 3 4.21
295		21	207 28 17.0	3583.5	+0.77	+0.56	9.9979476	+40.40	−17.25	−0.22	−1.055	−0.013	21 59 8.30
296		22	208 28 0.5	3585.2	67	46	8247	53	28	−0.15	056	−0.009	55 12.40
297		23	209 27 45.7	3587.0	56	34	7021	67	31	−0.04	058	−0.003	51 16.49
298		24	210 27 32.7	3588.6	43	20	5798	81	34	+0.05	060	+0.002	47 20.53
299		25	211 27 21.3	3590.3	29	+0.06	4582	40.95	37	+0.13	062	+0.007	43 24.67
300		26	212 27 11.6	3591.9	−0.16	−0.08	9.9973372	+41.08	−17.40	+0.15	−1.063	+0.009	21 39 28.76
301		27	213 27 3.5	3593.6	+0.05	19	2171	22	42	+0.14	065	+0.009	35 32.86
302		28	214 26 57.1	3595.3	−0.03	28	9.9970981	36	44	+0.08	066	+0.006	31 36.95
303		29	215 26 52.4	3597.0	09	35	9.9969803	50	46	0.00	067	+0.001	27 41.04
304		30	216 26 49.4	3598.8	13	39	8639	64	48	−0.09	068	−0.005	23 45.13
305		31	217 26 48.2	3600.6	−0.11	−0.38	9.9967490	+41.77	−17.49	−0.15	−1.070	−0.009	21 19 49.22
306	11	1	218 26 48.8		−0.08	−0.35	9.9966357	+41.91	−17.51	−0.16	−1.071	−0.011	21 15 53.31

月	日	七曜	視赤経		視赤緯		視半径	地平視差	時差率（視時−平時）		恒星時
			h m s	s	° ′ ″	″	′ ″	″	m s	s	h m s
11	1	水	14 24 16.48	235.04	−14 19 24.8	−1151.2	16 8.98	8.87	+16 20.61	+ 1.51	2 40 37.079
	2	木	28 11.52	235.85	38 36.0	1137.1	9.23	87	22.12	+ 0.71	44 33.634
	3	金	32 7.37	236.68	14 57 33.1	1122.5	9.47	87	22.83	− 0.13	48 30.192
	4	土	36 4.05	237.51	15 16 15.6	1107.5	9.71	87	22.70	0.95	52 26.753
	5	日	40 1.56	238.36	34 43.1	1092.2	9.95	88	21.75	1.80	2 56 23.314
	6	月	14 43 59.92	239.20	−15 52 55.3	−1076.4	16 10.19	8.88	+16 19.95	− 2.65	3 0 19.874
	7	火	47 59.12	240.06	16 10 51.7	1060.3	10.42	88	17.30	3.51	4 16.432
	8	水	51 59.18	240.92	28 32.0	1043.7	10.65	88	13.79	4.36	8 12.988
	9	木	14 56 0.10	241.79	16 45 55.7	1026.8	10.88	89	9.43	5.23	12 9.542
	10	金	15 0 1.89	242.64	17 3 2.5	1009.4	11.10	89	16 4.20	6.09	16 6.094
	11	土	15 4 4.53	243.51	−17 19 51.9	− 991.6	16 11.33	8.89	+15 58.11	− 6.95	3 20 2.644
	12	日	8 8.04	244.37	36 23.5	973.4	11.55	89	51.16	7.82	23 59.195
	13	月	12 12.41	245.23	17 52 36.9	954.9	11.77	90	43.34	8.68	27 55.745
	14	火	16 17.64	246.09	18 8 31.8	935.8	11.98	90	34.66	9.53	31 52.296
	15	水	20 23.73	246.93	24 7.6	916.4	12.20	90	25.13	10.37	35 48.849
	16	木	15 24 30.66	247.78	−18 39 24.0	− 896.6	16 12.41	8.90	+15 14.76	−11.22	3 39 45.404
	17	金	28 38.44	248.60	18 54 20.6	876.4	12.62	90	15 3.54	12.05	43 41.961
	18	土	32 47.04	249.44	19 8 57.0	855.8	12.83	90	14 51.49	12.88	47 38.521
	19	日	36 56.48	250.24	23 12.8	834.8	13.04	91	38.61	13.69	51 35.082
	20	月	41 6.72	251.04	37 7.6	813.4	13.24	91	24.92	14.48	55 31.644
	21	火	15 45 17.76	251.83	−19 50 41.0	− 791.7	16 13.44	8.91	+14 10.44	−15.28	3 59 28.205
	22	水	49 29.59	252.61	20 3 52.7	769.5	13.64	91	13 55.16	16.05	4 3 24.765
	23	木	53 42.20	253.37	16 42.2	747.0	13.84	91	39.11	16.81	7 21.322
	24	金	15 57 55.57	254.12	29 9.2	724.2	14.03	91	22.30	17.57	11 17.876
	25	土	16 2 9.69	254.87	41 13.4	701.0	14.22	92	13 4.73	18.30	15 14.428
	26	日	16 6 24.56	255.58	−20 52 54.4	− 677.5	16 14.40	8.92	+12 46.43	−19.03	4 19 10.979
	27	月	10 40.14	256.30	21 4 11.9	653.7	14.58	92	27.40	19.74	23 7.531
	28	火	14 56.44	256.99	15 5.6	629.6	14.76	92	12 7.66	20.44	27 4.085
	29	水	19 13.43	257.69	25 35.2	605.2	14.93	92	11 47.22	21.13	31 0.642
	30	木	23 31.12	258.35	35 40.4	580.5	15.09	92	26.09	21.79	34 57.202
12	1	金	16 27 49.47	259.02	−21 45 20.9	− 555.6	16 15.25	8.93	+11 4.30	−22.46	4 38 53.764
	2	土	32 8.49	259.65	21 54 36.5	530.4	15.40	93	10 41.84	23.09	42 50.327
	3	日	36 28.14	260.27	22 3 26.9	504.8	15.55	93	10 18.75	23.72	46 46.891
	4	月	40 48.41	260.87	11 51.7	479.2	15.69	93	9 55.03	24.31	50 43.452
	5	火	45 9.28	261.45	19 50.9	453.2	15.82	93	30.72	24.89	54 40.012
	6	水	16 49 30.73	262.00	−22 27 24.1	− 427.0	16 15.95	8.93	+ 9 5.83	−25.44	4 58 36.568
	7	木	53 52.73	262.52	34 31.1	400.5	16.08	93	8 40.39	25.97	5 2 33.123
	8	金	16 58 15.25	263.02	41 11.6	373.9	16.20	94	8 14.42	26.47	6 29.676
	9	土	17 2 38.27	263.50	47 25.5	347.1	16.32	94	7 47.95	26.93	10 26.228
	10	日	7 1.77	263.94	53 12.6	320.0	16.43	94	7 21.02	27.38	14 22.781
	11	月	17 11 25.71	264.34	−22 58 32.6	− 292.7	16 16.54	8.94	+ 6 53.64	−27.79	5 18 19.334
	12	火	15 50.05	264.72	23 3 25.3	265.3	16.65	94	6 25.85	28.16	22 15.388
	13	水	20 14.77	265.06	7 50.6	237.8	16.75	94	5 57.69	28.50	26 12.445
	14	木	24 39.83	265.37	11 48.4	210.1	16.85	94	29.19	28.82	30 9.004
	15	金	29 5.20	265.64	15 18.5	182.2	16.94	94	5 0.37	29.08	34 5.565
	16	土	17 33 30.84	265.87	−23 18 20.7	− 154.3	16 17.03	8.94	+ 4 31.29	−29.31	5 38 2.128
	17	日	37 56.71	266.07	20 55.0	126.3	17.12	94	4 1.98	29.51	41 58.691
	18	月	42 22.78	266.22	23 1.3	98.1	17.20	94	3 32.47	29.67	45 55.255
	19	火	46 49.00	266.35	24 39.4	69.9	17.28	94	3 2.80	29.78	49 51.817
	20	水	51 15.35	266.42	25 49.3	41.6	17.36	95	2 33.02	29.87	53 48.375
	21	木	17 55 41.77	266.47	−23 26 30.9	− 13.4	16 17.43	8.95	+ 2 3.15	−29.91	5 57 44.931
	22	金	18 0 8.24	266.48	26 44.3	+ 15.0	17.50	95	1 33.24	29.92	6 1 41.485
	23	土	4 34.72	266.45	26 29.3	43.2	17.56	95	1 3.32	29.90	5 38.038
	24	日	9 11.7	266.39	25 46.1	71.5	17.62	95	0 33.42	29.83	9 34.590
	25	月	13 27.56	266.30	24 34.6	99.8	17.67	95	+ 0 3.59	29.74	13 31.144
	26	火	18 17 53.86	266.18	−23 22 54.8	+ 128.0	16 17.72	8.95	− 0 26.15	−29.62	6 17 27.701
	27	水	22 20.04	266.03	20 46.8	156.1	17.76	95	0 55.77	29.47	21 24.261
	28	木	26 46.07	265.84	18 10.7	184.2	17.80	95	1 25.24	29.29	25 20.823
	29	金	31 11.91	265.64	15 6.5	212.1	17.83	95	1 54.53	29.07	29 17.386
	30	土	35 37.55	265.40	11 34.4	240.0	17.85	95	2 23.60	28.85	33 13.950
	31	日	18 40 2.95	265.13	−23 7 34.4	+ 267.7	16 17.86	8.95	− 2 52.45	−28.57	6 37 10.513
12	32	月	18 44 28.08		−23 3 6.7		16 17.87	8.95	− 3 21.02		6 41 7.074

通日	月	日	世界時 0h 視黄経	黄緯 平均	黄緯 視	地球ノ動径（對數）	黄経ノ歳差	黄経ノ章動 長	黄経ノ章動 短	赤経ノ章動 長	赤経ノ章動 短	恒星時 0h ニ對スル世界時
			° ′ ″	″	″		″	″	″	s	s	h m s
306	11	1	218 26 48.8	−0.08	−0.35	9.9966357	+41.91	−17.51	−0.16	−1.071	−0.011	21 15 53.31
307		2	219 26 51.2	−0.02	30	5241	42.05	52	−0.13	072	−0.009	11 57.41
308		3	220 26 55.7	+0.07	21	4140	19	53	−0.08	072	−0.006	8 1.50
309		4	221 27 2.1	19	−0.10	3056	32	54	+0.01	073	0.000	4 5.59
310		5	222 27 10.7	32	+0.02	1986	46	55	+0.11	073	+0.006	21 0 9.68
311		6	223 27 21.2	+0.44	+0.14	9.9960931	+42.60	−17.55	+0.17	−1.073	+0.011	20 56 13.77
312		7	224 27 33.8	58	27	9.9959889	74	56	+0.23	073	+0.014	52 17.86
313		8	225 27 48.5	70	39	8860	42.87	56	+0.24	074	+0.015	48 21.95
314		9	226 28 5.2	82	50	7842	43.01	56	+0.22	074	+0.014	44 26.04
315		10	227 28 23.9	90	58	6835	15	56	+0.17	074	+0.010	40 30.13
316		11	228 28 44.5	+0.97	+0.64	9.9955838	+43.29	−17.56	+0.09	−1.074	+0.005	20 36 34.22
317		12	229 29 7.0	1.00	67	4851	42	56	−0.01	073	0.000	32 38.31
318		13	230 29 31.5	02	68	3873	56	56	−0.08	073	−0.006	28 42.40
319		14	231 29 57.6	1.01	67	2905	70	55	−0.16	073	−0.010	24 46.50
320		15	232 30 25.6	0.97	62	1945	84	54	−0.22	072	−0.013	20 50.59
321		16	233 30 55.1	+0.91	+0.56	9.9950994	+43.97	−17.53	−0.24	−1.072	−0.014	20 16 54.67
322		17	234 31 26.3	83	47	9.9950051	44.11	52	−0.21	071	−0.013	12 58.77
323		18	235 31 59.0	72	36	9.9949119	25	51	−0.17	071	−0.009	9 2.86
324		19	236 32 33.0	61	24	8196	39	50	−0.08	070	−0.004	5 6.94
325		20	237 33 8.5	47	+0.10	7283	53	48	+0.03	069	+0.002	20 1 11.04
326		21	238 33 45.1	+0.33	−0.05	9.9946381	+44.66	−17.47	+0.10	−1.068	+0.006	19 57 15.12
327		22	239 34 23.0	19	19	5494	80	45	+0.15	067	+0.010	53 19.21
328		23	240 35 2.0	+0.08	31	4620	44.94	43	+0.17	065	+0.010	49 23.30
329		24	241 35 42.1	−0.02	41	3763	45.08	41	+0.12	064	+0.007	45 27.39
330		25	242 36 23.2	11	50	2923	21	39	+0.04	063	+0.003	41 31.48
331		26	243 37 5.4	−0.14	−0.54	9.9942104	+45.35	−17.36	−0.06	−1.062	−0.003	19 37 35.57
332		27	244 37 48.7	15	55	1305	49	34	−0.14	060	−0.008	33 39.66
333		28	245 38 33.0	12	52	9.9940529	63	31	−0.17	059	−0.011	29 43.75
334		29	246 39 18.5	−0.05	46	9.9939777	76	28	−0.17	057	−0.011	25 47.84
335		30	247 40 5.1	+0.02	39	9049	45.90	25	−0.13	055	−0.008	21 51.93
336	12	1	248 40 52.9	+0.14	−0.28	9.9938347	+46.04	−17.22	−0.04	−1.053	−0.003	19 17 56.01
337		2	249 41 41.9	26	16	7669	18	19	+0.06	052	+0.003	14 0.10
338		3	250 42 32.2	39	−0.03	7015	31	16	+0.15	050	+0.009	10 4.19
339		4	251 43 23.8	52	+0.10	6386	45	13	+0.21	048	+0.013	6 8.28
340		5	252 44 16.7	65	22	5780	59	10	+0.23	046	+0.015	19 2 12.37
341		6	253 45 10.8	+0.75	+0.32	9.9935197	+46.73	−17.06	+0.22	−1.043	+0.014	18 58 16.46
342		7	254 46 6.3	85	42	4634	46.87	17.03	+0.18	041	+0.011	54 20.54
343		8	255 47 2.9	93	49	4092	47.00	16.99	+0.10	039	+0.007	50 24.63
344		9	256 48 0.8	97	53	3569	14	95	+0.02	036	+0.001	46 28.72
345		10	257 48 59.9	99	55	3066	28	91	−0.06	034	−0.004	42 32.81
346		11	258 50 0.0	+0.97	+0.53	9.9932580	+47.42	−16.87	−0.14	−1.031	−0.009	18 38 36.90
347		12	259 51 1.3	94	50	2113	55	83	−0.19	029	−0.013	34 40.99
348		13	260 52 3.5	88	43	1662	69	79	−0.23	027	−0.014	30 45.07
349		14	261 53 6.6	80	35	1227	83	75	−0.23	024	−0.013	26 49.16
350		15	262 54 10.6	69	24	0807	47.97	71	−0.19	022	−0.010	22 53.25
351		16	263 55 15.2	+0.56	+0.11	9.9930403	+48.10	−16.66	−0.10	−1.019	−0.005	18 18 57.34
352		17	264 56 20.6	42	−0.03	9.9930013	24	62	0.00	017	0.000	15 1.42
353		18	265 57 26.4	29	16	9.9929640	38	58	+0.10	014	+0.006	11 5.51
354		19	266 58 32.7	14	31	9282	52	54	+0.16	012	+0.010	7 9.60
355		20	267 59 39.4	+0.01	44	8943	65	49	+0.18	009	+0.011	18 3 13.69
356		21	269 0 46.3	−0.09	−0.55	9.9928620	+48.79	−16.45	+0.15	−1.006	+0.009	17 59 17.78
357		22	270 1 53.4	17	63	8318	48.93	40	+0.09	004	+0.005	55 21.87
358		23	271 3 0.7	23	69	8037	49.07	36	−0.01	1.001	0.000	51 25.95
359		24	272 4 8.0	25	71	7778	20	32	−0.09	0.999	−0.006	47 30.04
360		25	273 5 15.4	24	70	7543	34	28	−0.16	996	−0.010	43 34.13
361		26	274 6 22.8	−0.19	−0.65	9.9927335	+49.48	−16.23	−0.18	−0.993	−0.011	17 39 38.22
362		27	275 7 30.3	11	57	7153	62	19	−0.15	991	−0.009	35 42.31
363		28	276 8 37.9	−0.01	47	6999	76	15	−0.08	988	−0.005	31 46.39
364		29	277 9 45.6	+0.12	34	6873	49.89	11	+0.02	986	0.000	27 50.48
365		30	278 10 53.5	24	22	6776	50.03	07	+0.12	983	+0.006	23 54.57
366	12	31	279 12 1.5	+0.36	−0.09	9.9926708	+50.17	−16.03	+0.19	−0.981	+0.011	17 19 58.66
367		32	280 13 9.7	+0.48	+0.03	9.9926668	+50.31	−15.99	+0.23	−0.978	+0.014	17 16 2.74

黃道傾角、光行差及平均黃經　昭和19年

世界時 0h		黃道傾角	光行差	平均黃經	世界時 0h		黃道傾角	光行差	平均黃經
		° ′					° ′		
月	日	23 26			月	日	23 26		
		″	″	°			″	″	°
1	1	41.44	−20.81	279.5422	7	4	42.58	−20.13	101.8870
	6	41.50	20.81	284.4705		9	42.66	20.13	106.8152
	11	41.59	20.81	289.3987		14	42.75	20.13	111.7435
	16	41.69	20.80	294.3269		19	42.85	20.14	116.6717
	21	41.80	20.80	299.2552		24	42.95	20.15	121.5999
	26	41.91	−20.79	304.1834		29	43.07	−20.15	126.5282
	31	42.04	20.77	309.1117	8	3	43.18	20.17	131.4564
2	5	42.16	20.76	314.0399		8	43.31	20.18	136.3847
	10	42.30	20.74	318.9681		13	43.43	20.20	141.3129
	15	42.43	20.72	323.8964		18	43.56	20.22	146.2411
	20	42.54	−20.70	328.8246		23	43.67	−20.24	151.1694
	25	42.65	20.68	333.7528		28	43.79	20.26	156.0976
3	1	42.75	20.65	338.6811	9	2	43.89	20.29	161.0258
	6	42.84	20.63	343.6093		7	43.97	20.31	165.9541
	11	42.90	20.60	348.5376		12	44.04	20.34	170.8823
	16	42.95	−20.57	353.4658		17	44.10	−20.36	175.8105
	21	42.99	20.54	358.3940		22	44.14	20.40	180.7388
	26	43.01	20.51	3.3223		27	44.18	20.42	185.6670
	31	43.01	20.48	8.2505	10	2	44.19	20.45	190.5953
4	5	43.00	20.45	13.1787		7	44.19	20.48	195.5235
	10	42.98	−20.42	18.1070		12	44.17	−20.51	200.4517
	15	42.94	20.40	23.0352		17	44.14	20.54	205.3800
	20	42.90	20.36	27.9634		22	44.10	20.57	210.3082
	25	42.84	20.34	32.8917		27	44.05	20.59	215.2364
	30	42.78	20.31	37.8199	11	1	43.99	20.63	220.1647
5	5	42.73	−20.29	42.7482		6	43.92	−20.65	225.0929
	10	42.66	20.26	47.6764		11	43.86	20.68	230.0212
	15	42.60	20.24	52.6046		16	43.79	20.70	234.9494
	20	42.55	20.22	57.5329		21	43.74	20.72	239.8776
	25	42.50	20.20	62.4611		26	43.69	20.74	244.8059
	30	42.46	−20.18	67.3893	12	1	43.65	−20.76	249.7341
6	4	42.43	20.17	72.3176		6	43.62	20.77	254.6623
	9	42.42	20.15	77.2458		11	43.61	20.79	259.5906
	14	42.42	20.15	82.1741		16	43.61	20.79	264.5188
	19	42.44	20.14	87.1023		21	43.64	20.80	269.4470
	24	42.47	−20.13	92.0305		26	43.69	−20.81	274.3753
	29	42.52	20.13	96.9588		31	43.74	20.81	279.3035
7	4	42.58	−20.13	101.8870	12	36	43.81	−20.81	284.2318

平均黃經ノ1日差……+0.985647

黃道傾角ハ短週期章動ヲ含マズ。之ガ改正ヲ要スルトキハ 144〜149 頁所揭ノ dε ヲ加フベシ。

光行差 $= \frac{20''.47}{R}$ (R……地球ノ動徑)

世界時	赤經				赤緯				世界時	赤經				赤緯			
	1月1日									1月3日							
h	h	m	s	s	°	′	″	″	h	h	m	s	s	°	′	″	″
0	23	11	39.75	137.12	− 8	44	4.5	+695.2	12	1	23	3.06	127.47	+ 3	19	14.7	+710.4
1		13	56.87	136.87		32	29.3	697.5	13		25	10.53	127.40		31	5.1	708.6
2		16	13.74	136.62		20	51.8	699.9	14		27	17.93	127.35		42	53.7	706.8
3		18	30.36	136.38	8	9	11.9	702.1	15		29	25.28	127.29	3	54	40.5	705.0
4		20	46.74	136.13	7	57	29.8	704.3	16		31	32.57	127.25	4	6	25.5	703.2
5		23	2.87	135.89		45	45.5	706.5	17		33	39.82	127.20		18	8.7	701.2
6	23	25	18.76	135.65	− 7	33	59.0	+708.4	18	1	35	47.02	127.15	+ 4	29	49.9	+699.2
7		27	34.41	135.41		22	10.6	710.4	19		37	54.17	127.11		41	29.1	697.2
8		29	49.82	135.18	7	10	20.2	712.2	20		40	1.28	127.08	4	53	6.3	695.1
9		32	5.00	134.94	6	58	28.0	714.0	21		42	8.36	127.04	5	4	41.4	692.8
10		34	19.94	134.72		46	34.0	715.7	22		44	15.40	127.02		16	14.2	690.7
11		36	34.66	134.49		34	38.3	717.3	23		46	22.42	126.97		27	44.9	688.4
12	23	38	49.15	134.27	− 6	22	41.0	+718.9		1月4日							
13		41	3.42	134.05	6	10	42.1	720.3									
14		43	17.47	133.84	5	58	41.8	721.7	0	1	48	29.39	126.95	+ 5	39	13.3	+686.2
15		45	31.31	133.61		46	40.1	723.0	1		50	36.34	126.93		50	39.5	683.7
16		47	44.92	133.42		34	37.1	724.3	2		52	43.27	126.92	6	2	3.2	681.3
17		49	58.34	133.19		22	32.8	725.4	3		54	50.19	126.89		13	24.5	678.8
18	23	52	11.53	133.00	− 5	10	27.4	+726.5	4		56	57.08	126.89		24	43.3	676.4
19		54	24.53	132.80	4	58	20.9	727.5	5	1	59	3.97	126.86		35	59.7	673.7
20		56	37.33	132.60		46	13.4	728.5	6	2	1	10.83	126.86	+ 6	47	13.4	+671.1
21	23	58	49.93	132.40		34	4.9	729.2	7		3	17.69	126.85	6	58	24.5	668.5
22	0	1	2.33	132.21		21	55.7	730.1	8		5	24.54	126.85	7	9	33.0	665.8
23		3	14.54	132.03	4	9	45.6	730.8	9		7	31.39	126.84		20	38.8	662.9
	1月2日								10		9	38.23	126.85		31	41.7	660.1
0	0	5	26.57	131.84	− 3	57	34.8	+731.4	11		11	45.08	126.85		42	41.8	657.3
1		7	38.41	131.66		45	23.4	732.0	12	2	13	51.93	126.87	+ 7	53	39.1	+654.3
2		9	50.07	131.49		33	11.4	732.5	13		15	58.80	126.86	8	4	33.4	651.3
3		12	1.56	131.30		20	58.9	732.9	14		18	5.66	126.88		15	24.7	648.3
4		14	12.86	131.14	3	8	46.0	733.4	15		20	12.54	126.89		26	13.0	645.3
5		16	24.00	130.98	2	56	32.6	733.5	16		22	19.43	126.91		36	58.3	642.2
6	0	18	34.98	130.81	− 2	44	19.1	+733.8	17		24	26.34	126.93		47	40.5	638.9
7		20	45.79	130.64		32	5.3	733.9	18	2	26	33.27	126.95	+ 8	58	19.4	+635.7
8		22	56.43	130.49		19	51.4	734.1	19		28	40.22	126.97	9	8	55.1	632.5
9		25	6.92	130.33	2	7	37.3	734.0	20		30	47.19	127.00		19	27.6	629.2
10		27	17.25	130.18	1	55	23.3	734.1	21		32	54.19	127.02		29	56.8	625.8
11		29	27.43	130.03		43	9.2	733.8	22		35	1.21	127.05		40	22.6	622.4
12	0	31	37.46	129.89	− 1	30	55.4	+733.7	23		37	8.26	127.09	9	50	45.0	618.9
13		33	47.35	129.75		18	41.7	733.4		1月5日							
14		35	57.10	129.62	1	6	28.3	733.1									
15		38	6.72	129.48	0	54	15.2	732.7	0	2	39	15.35	127.12	+10	1	3.9	+615.5
16		40	16.20	129.35		42	2.5	732.3	1		41	22.47	127.16		11	19.4	611.9
17		42	25.55	129.22		29	50.2	731.7	2		43	29.63	127.19		21	31.3	608.3
18	0	44	34.77	129.11	− 0	17	38.5	+731.2	3		45	36.82	127.23		31	39.6	604.6
19		46	43.88	128.98	− 0	5	27.3	730.5	4		47	44.05	127.28		41	44.2	601.0
20		48	52.86	128.87	+ 0	6	43.2	729.9	5		49	51.33	127.31	10	51	45.2	597.2
21		51	1.73	128.75		18	53.1	729.1	6	2	51	58.64	127.37	+11	1	42.4	+593.5
22		53	10.48	128.64		31	2.2	728.2	7		54	6.01	127.40		11	35.9	589.6
23		55	19.12	128.53		43	10.4	727.4	8		56	13.41	127.46		21	25.5	585.8
	1月3日								9	2	58	20.87	127.49		31	11.3	581.8
0	0	57	27.65	128.44	+ 0	55	17.8	+726.5	10	3	0	28.36	127.56		40	53.1	577.9
1	0	59	36.09	128.33	1	7	24.3	725.4	11		2	35.92	127.61	11	50	31.0	573.9
2	1	1	44.42	128.24		19	29.7	724.4	12	3	4	43.53	127.67	+12	0	4.9	+569.8
3		3	52.66	128.14		31	34.1	723.1	13		6	51.20	127.72		9	34.7	565.8
4		6	0.80	128.06		43	37.2	722.0	14		8	58.92	127.78		19	0.5	561.7
5		8	8.86	127.97	1	55	39.2	720.7	15		11	6.70	127.83		28	22.2	557.5
6	1	10	16.83	127.90	+ 2	7	39.9	+719.5	16		13	14.53	127.89		37	39.7	553.3
7		12	24.73	127.81		19	39.4	718.0	17		15	22.42	127.95		46	53.0	549.0
8		14	32.54	127.74		31	37.4	716.7	18	3	17	30.37	128.02	+12	56	2.0	+544.8
9		16	40.28	127.66		43	34.1	715.1	19		19	38.39	128.08	13	5	6.8	540.4
10		18	47.94	127.59	2	55	29.2	713.6	20		21	46.47	128.15		14	7.2	536.1
11		20	55.53	127.53	3	7	22.8	+711.9	21		23	54.62	128.20		23	3.3	531.6
12	1	23	3.06		+ 3	19	14.7		22		26	2.82	128.28		31	54.9	527.1
									23		28	11.10	128.34		40	42.0	522.7
									24	3	30	19.44		+13	49	24.7	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
1月6日								
0	3	30	19.44	128.42	+13	49	24.7	+518.2
1		32	27.86	128.47	13	58	2.9	513.5
2		34	36.33	128.55	14	6	36.4	508.9
3		36	44.88	128.61		15	5.3	504.3
4		38	53.49	128.68		23	29.6	499.7
5		41	2.17	128.76		31	49.3	494.8
6	3	43	10.93	128.83	+14	40	4.1	+490.1
7		45	19.76	128.90		48	14.2	485.3
8		47	28.66	128.97	14	56	19.5	480.4
9		49	37.63	129.04	15	4	19.9	475.6
10		51	46.67	129.12		12	15.5	470.7
11		53	55.79	129.19		20	6.2	465.7
12	3	56	4.98	129.26	+15	27	51.9	+460.7
13	3	58	14.24	129.34		35	32.6	455.7
14	4	0	23.58	129.41		43	8.3	450.6
15		2	32.99	129.48		50	38.9	445.6
16		4	42.47	129.55	15	58	4.5	440.5
17		6	52.02	129.62	16	5	25.0	435.2
18	4	9	1.64	129.69	+16	12	40.2	+430.0
19		11	11.33	129.77		19	50.2	424.8
20		13	21.10	129.84		26	55.0	419.5
21		15	30.94	129.91		33	54.5	414.3
22		17	40.85	129.99		40	48.8	409.0
23		19	50.84	130.04		47	37.8	403.6
1月7日								
0	4	22	0.88	130.11	+16	54	21.4	+398.3
1		24	10.99	130.19	17	0	59.7	392.8
2		26	21.18	130.27		7	32.5	387.3
3		28	31.45	130.32		13	59.3	381.9
4		30	41.77	130.39		20	21.7	376.4
5		32	52.16	130.45		26	38.1	370.8
6	4	35	2.61	130.53	+17	32	48.9	+365.3
7		37	13.14	130.58		38	54.2	359.6
8		39	23.72	130.65		44	53.8	354.1
9		41	34.37	130.71		50	47.9	348.4
10		43	45.08	130.77	17	56	36.3	342.8
11		45	55.85	130.82	18	2	19.1	337.0
12	4	48	6.67	130.88	+18	7	56.1	+331.4
13		50	17.55	130.94		13	27.5	325.5
14		52	28.49	131.00		18	53.0	319.8
15		54	39.49	131.05		24	12.8	314.0
16		56	50.54	131.11		29	26.8	308.2
17	4	59	1.65	131.16		34	35.0	302.3
18	5	1	12.81	131.21	+18	39	37.3	+296.4
19		3	24.02	131.24		44	33.7	290.6
20		5	35.26	131.30		49	24.3	284.8
21		7	46.56	131.34		54	9.1	278.7
22		9	57.90	131.38	18	58	47.8	272.9
23		12	9.28	131.42	19	3	20.7	266.8
1月8日								
0	5	14	20.70	131.46	+19	7	47.5	+260.9
1		16	32.16	131.50		12	8.4	254.9
2		18	43.66	131.53		16	23.3	248.9
3		20	55.19	131.57		20	32.2	242.8
4		23	6.76	131.60		24	35.0	236.8
5		25	18.36	131.62		28	31.8	230.7
6	5	27	29.98	131.66	+19	32	22.5	+224.6
7		29	41.64	131.67		36	7.1	218.6
8		31	53.31	131.70		39	45.7	212.5
9		34	5.01	131.72		43	18.2	206.2
10		36	16.73	131.74		46	44.4	200.3
11		38	28.47	131.75		50	4.7	+194.0
12	5	40	40.22		+19	53	18.7	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
1月8日								
12	5	40	40.22	131.76	+19	53	18.7	+187.9
13		42	51.98	131.78		56	26.6	181.7
14		45	3.76	131.79	19	59	28.3	175.6
15		47	15.55	131.79	20	2	23.9	169.3
16		49	27.34	131.80		5	13.2	163.2
17		51	39.14	131.79		7	56.4	156.9
18	5	53	50.93	131.79	+20	10	33.3	+150.7
19		56	2.72	131.79		13	4.0	144.5
20	5	58	14.51	131.78		15	28.5	138.3
21	6	0	26.29	131.78		17	46.8	132.0
22		2	38.07	131.77		19	58.8	125.8
23		4	49.84	131.74		22	4.6	119.6
1月9日								
0	6	7	1.58	131.73	+20	24	4.2	+113.4
1		9	13.31	131.71		25	57.6	107.1
2		11	25.02	131.69		27	44.7	100.9
3		13	36.71	131.67		29	25.6	94.6
4		15	48.38	131.64		31	0.2	88.4
5		18	0.02	131.60		32	28.6	82.1
6	6	20	11.62	131.58	+20	33	50.7	+ 75.9
7		22	23.20	131.53		35	6.6	69.6
8		24	34.73	131.50		36	16.2	63.4
9		26	46.23	131.46		37	19.6	57.2
10		28	57.69	131.42		38	16.8	50.9
11		31	9.11	131.37		39	7.7	44.7
12	6	33	20.48	131.33	+20	39	52.4	+ 38.5
13		35	31.81	131.26		40	30.9	32.2
14		37	43.07	131.22		41	3.1	26.1
15		39	54.29	131.16		41	29.2	19.8
16		42	5.45	131.09		41	49.0	13.6
17		44	16.54	131.03		42	2.6	7.4
18	6	46	27.57	130.97	+20	42	10.0	+ 1.3
19		48	38.54	130.90		42	11.3	− 4.9
20		50	49.44	130.84		42	6.4	11.1
21		53	0.28	130.75		41	55.3	17.2
22		55	11.03	130.68		41	38.1	23.4
23		57	21.71	130.60		41	14.7	29.6
1月10日								
0	6	59	32.31	130.52	+20	40	45.1	− 35.6
1	7	1	42.83	130.44		40	9.5	41.7
2		3	53.27	130.36		39	27.8	47.8
3		6	3.63	130.25		38	40.0	53.9
4		8	13.88	130.17		37	46.1	60.0
5		10	24.05	130.07		36	46.1	66.0
6	7	12	34.12	129.98	+20	35	40.1	− 72.1
7		14	44.10	129.88		34	28.0	78.0
8		16	53.98	129.78		33	10.0	84.0
9		19	3.76	129.67		31	46.0	90.0
10		21	13.43	129.56		30	16.0	96.0
11		23	22.99	129.46		28	40.0	101.9
12	7	25	32.45	129.36	+20	26	58.1	−107.8
13		27	41.81	129.23		25	10.3	113.8
14		29	51.04	129.12		23	16.5	119.7
15		32	0.16	129.00		21	16.8	125.4
16		34	9.16	128.89		19	11.4	131.4
17		36	18.05	128.76		17	0.0	137.1
18	7	38	26.81	128.63	+20	14	42.9	−142.9
19		40	35.44	128.51		12	20.0	148.7
20		42	43.95	128.38		9	51.3	154.4
21		44	52.33	128.26		7	16.9	160.2
22		47	0.59	128.13		4	36.7	165.9
23		49	8.72	127.98	20	1	50.8	−171.4
24	7	51	16.70		+19	58	59.4	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
1月11日								
0	7	51	16.70	127.85	+19	58	59.4	−177.2
1		53	24.55	127.71		56	2.2	182.7
2		55	32.26	127.58		52	59.5	188.4
3		57	39.84	127.43		49	51.1	194.0
4	7	59	47.27	127.30		46	37.1	199.5
5	8	1	54.57	127.15		43	17.6	205.0
6	8	4	1.72	127.00	+19	39	52.6	−210.6
7		6	8.72	126.85		36	22.0	215.9
8		8	15.57	126.71		32	46.1	221.4
9		10	22.28	126.55		29	4.7	226.7
10		12	28.83	126.40		25	18.0	232.1
11		14	35.23	126.24		21	25.9	237.5
12	8	16	41.47	126.09	+19	17	28.4	−242.9
13		18	47.56	125.93		13	25.5	248.0
14		20	53.49	125.78		9	17.5	253.3
15		22	59.27	125.62		5	4.2	258.5
16		25	4.89	125.47	19	0	45.7	263.7
17		27	10.36	125.30	18	56	22.0	268.9
18	8	29	15.66	125.14	+18	51	53.1	−274.0
19		31	20.80	124.98		47	19.1	279.0
20		33	25.78	124.82		42	40.1	284.1
21		35	30.60	124.65		37	56.0	289.1
22		37	35.25	124.48		33	6.9	294.1
23		39	39.73	124.32		28	12.8	299.1
1月12日								
0	8	41	44.05	124.15	+18	23	13.7	−304.0
1		43	48.20	123.99		18	9.7	308.8
2		45	52.19	123.82		13	0.9	313.8
3		47	56.01	123.66		7	47.1	318.5
4		49	59.67	123.48	18	2	28.6	323.4
5		52	3.15	123.32	17	57	5.2	328.1
6	8	54	6.47	123.15	+17	51	37.1	−332.9
7		56	9.62	122.98		46	4.2	337.4
8	8	58	12.60	122.82		40	26.8	342.2
9	9	0	15.42	122.63		34	44.6	346.7
10		2	18.05	122.47		28	57.9	351.3
11		4	20.52	122.29		23	6.6	355.8
12	9	6	22.81	122.14	+17	17	10.3	−360.4
13		8	24.95	121.95		11	10.4	364.8
14		10	26.90	121.79	17	5	5.6	369.3
15		12	28.69	121.61	16	58	56.3	373.6
16		14	30.30	121.45		52	42.7	378.0
17		16	31.75	121.28		46	24.7	382.4
18	9	18	33.03	121.12	+16	40	2.3	−386.7
19		20	34.15	120.94		33	35.6	390.8
20		22	35.09	120.78		27	4.8	395.1
21		24	35.87	120.59		20	29.7	399.3
22		26	36.46	120.43		13	50.4	403.5
23		28	36.89	120.27		7	6.9	407.4
1月13日								
0	9	30	37.16	120.10	+16	0	19.5	−411.6
1		32	37.26	119.93	15	53	27.9	415.6
2		34	37.19	119.77		46	32.3	419.6
3		36	36.96	119.61		39	32.7	423.6
4		38	36.57	119.44		32	29.1	427.5
5		40	36.01	119.27		25	21.6	431.3
6	9	42	35.28	119.12	+15	18	10.3	−435.2
7		44	34.40	118.96		10	55.1	439.0
8		46	33.36	118.79	15	3	36.1	442.8
9		48	32.15	118.63	14	56	13.3	446.5
10		50	30.78	118.48		48	46.8	450.3
11		52	29.26	118.31		41	16.5	−453.8
12	9	54	27.57		+14	33	42.7	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
1月13日								
12	9	54	27.57	118.17	+14	33	42.7	−457.5
13		56	25.74	118.00		26	5.2	461.1
14	9	58	23.74	117.86		18	24.1	464.6
15	10	0	21.60	117.70		10	39.5	468.2
16		2	19.30	117.55	14	2	51.3	471.7
17		4	16.85	117.39	13	54	59.6	475.1
18	10	6	14.24	117.25	+13	47	4.5	−478.5
19		8	11.49	117.11		39	6.0	481.8
20		10	8.60	116.96		31	4.2	485.2
21		12	5.56	116.81		22	59.0	488.5
22		14	2.37	116.67		14	50.5	491.8
23		15	59.04	116.52	13	6	38.7	494.9
1月14日								
0	10	17	55.56	116.39	+12	58	23.8	−498.1
1		19	51.95	116.24		50	5.7	501.3
2		21	48.19	116.12		41	44.4	504.5
3		23	44.31	115.97		33	19.9	507.5
4		25	40.28	115.85		24	52.4	510.6
5		27	36.13	115.71		16	21.8	513.5
6	10	29	31.84	115.58	+12	7	48.3	−516.5
7		31	27.42	115.46	11	59	11.8	519.4
8		33	22.88	115.33		50	32.4	522.4
9		35	18.21	115.21		41	50.0	525.1
10		37	13.42	115.09		33	4.9	528.0
11		39	8.51	114.97		24	16.9	530.8
12	10	41	3.48	114.86	+11	15	26.1	−533.5
13		42	58.34	114.73		11	6	32.6	536.3
14		44	53.07	114.63		10	57	36.3	539.1
15		46	47.70	114.51*			48	37.2	541.6
16		48	42.21	114.40			39	35.6	544.3
17		50	36.61	114.30			30	31.3	546.8
18	10	52	30.91	114.19	+10	21	24.5	−549.3
19		54	25.10	114.08		12	15.2	551.9
20		56	19.18	114.00		10	3	3.3	554.4
21	10	58	13.18	113.89		9	53	48.9	556.8
22	11	0	7.07	113.80			44	32.1	559.2
23		2	0.87	113.70			35	12.9	561.5
1月15日								
0	11	3	54.57	113.61	+ 9	25	51.4	−563.9
1		5	48.18	113.53		16	27.5	566.2
2		7	41.71	113.44	9	7	1.3	568.5
3		9	35.15	113.36	8	57	32.8	570.7
4		11	28.51	113.28		48	2.1	572.9
5		13	21.79	113.20		38	29.2	575.0
6	11	15	14.99	113.13	+ 8	28	54.2	−577.1
7		17	8.12	113.05		19	17.1	579.3
8		19	1.17	112.98	8	9	37.8	581.4
9		20	54.15	112.91	7	59	56.4	583.3
10		22	47.06	112.85		50	13.1	585.4
11		24	39.91	112.78		40	27.7	587.3
12	11	26	32.69	112.73	+ 7	30	40.4	−589.4
13		28	25.42	112.67		20	51.0	591.1
14		30	18.09	112.62		10	59.9	593.0
15		32	10.71	112.56	7	1	6.9	594.8
16		34	3.27	112.51	6	51	12.1	596.6
17		35	55.78	112.47		41	15.5	598.4
18	11	37	48.25	112.43	+ 6	31	17.1	−600.2
19		39	40.68	112.39		21	16.9	601.7
20		41	33.07	112.36		11	15.2	603.5
21		43	25.43	112.32	6	1	11.7	605.0
22		45	17.75	112.29	5	51	6.7	606.7
23		47	10.04	112.26		41	0.0	−608.2
24	11	49	2.30		+ 5	30	51.8	

1月16日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	11	49	2.30	112.24	+ 5	30	51.8	−609.8
1		50	54.54	112.21		20	42.0	611.2
2		52	46.75	112.20		10	30.8	612.7
3		54	38.95	112.17	5	0	18.1	614.1
4		56	31.12	112.17	4	50	4.0	615.5
5	11	58	23.29	112.16		39	48.5	616.9
6	12	0	15.45	112.15	+ 4	29	31.6	−618.2
7		2	7.60	112.15		19	13.4	619.4
8		3	59.75	112.15	4	8	54.0	620.8
9		5	51.90	112.15	3	58	33.2	621.9
10		7	44.05	112.16		48	11.3	623.2
11		9	36.21	112.17		37	48.1	624.3
12	12	11	28.38	112.18	+ 3	27	23.8	−625.5
13		13	20.56	112.20		16	58.3	626.5
14		15	12.76	112.22	3	6	31.8	627.6
15		17	4.98	112.23	2	56	4.2	628.5
16		18	57.21	112.26		45	35.7	629.6
17		20	49.47	112.30		35	6.1	630.5
18	12	22	41.77	112.33	+ 2	24	35.6	−631.5
19		24	34.10	112.36		14	4.1	632.3
20		26	26.46	112.40	2	3	31.8	633.2
21		28	18.86	112.44	1	52	58.6	634.0
22		30	11.30	112.48		42	24.6	634.8
23		32	3.73	112.54		31	49.8	635.6

1月17日

0	12	33	56.32	112.59	+ 1	21	14.2	−636.3
1		35	48.91	112.65		10	37.9	636.9
2		37	41.56	112.71	1	0	1.0	637.6
3		39	34.27	112.76	0	49	23.4	638.1
4		41	27.03	112.83		38	45.3	638.8
5		43	19.86	112.90		28	6.5	639.4
6	12	45	12.76	112.98	+ 0	17	27.1	−639.9
7		47	5.74	113.05	+ 0	6	47.2	640.2
8		48	58.79	113.14	− 0	3	53.0	640.7
9		50	51.93	113.21		14	33.7	641.1
10		52	45.14	113.31		25	14.8	641.5
11		54	38.45	113.40		35	56.3	641.8
12	12	56	31.85	113.49	− 0	46	38.1	−642.1
13	12	58	25.34	113.59	0	57	20.2	642.3
14	13	0	18.93	113.70	1	8	2.5	642.6
15		2	12.63	113.79		18	45.1	642.7
16		4	6.42	113.90		29	27.8	642.9
17		6	0.32	114.01		40	10.7	643.0
18	13	7	54.33	114.14	− 1	50	53.7	−643.1
19		9	48.47	114.25	2	1	36.8	643.0
20		11	42.72	114.38		12	19.8	643.1
21		13	37.10	114.50		23	2.9	643.0
22		15	31.60	114.63		33	45.9	643.0
23		17	26.23	114.77		44	28.9	642.7

1月18日

0	13	19	21.00	114.91	− 2	55	11.6	−642.6
1		21	15.91	115.04	3	5	54.2	642.4
2		23	10.95	115.19		16	36.6	642.2
3		25	6.14	115.34		27	18.8	641.9
4		27	1.48	115.50		38	0.7	641.6
5		28	56.98	115.65		48	42.3	641.1
6	13	30	52.63	115.81	− 3	59	23.4	−640.8
7		32	48.44	115.97	4	10	4.2	640.4
8		34	44.41	116.14		20	44.6	639.9
9		36	40.55	116.31		31	24.5	639.3
10		38	36.86	116.49		42	3.8	638.8
11		40	33.35	116.66	4	52	42.6	−638.1
12	13	42	30.01		− 5	3	20.7	

1月18日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 12	13	42	30.01	116.85	− 5	3	20.7	−637.6
13		44	26.86	117.03		13	58.3	636.7
14		46	23.89	117.22		24	35.0	636.0
15		48	21.11	117.41		35	11.0	635.2
16		50	18.52	117.61		45	46.2	634.4
17		52	16.13	117.81	5	56	20.6	633.5
18	13	54	13.94	118.02	− 6	6	54.1	−632.6
19		56	11.96	118.22		17	26.7	631.6
20	13	58	10.18	118.43		27	58.3	630.6
21	14	0	8.61	118.65		38	28.9	629.5
22		2	7.26	118.87		48	58.4	628.5
23		4	6.13	119.09	6	59	26.9	627.2

1月19日

0	14	6	5.22	119.31	− 7	9	54.1	−626.1
1		8	4.53	119.55		20	20.2	624.8
2		10	4.03	119.78		30	45.0	623.5
3		12	3.86	120.02		41	8.5	622.1
4		14	3.88	120.26	7	51	30.6	620.7
5		16	4.14	120.49	8	1	51.3	619.2
6	14	18	4.63	120.75	− 8	12	10.5	−617.8
7		20	5.38	121.00		22	28.3	616.2
8		22	6.38	121.26		32	44.5	614.6
9		24	7.64	121.51		42	59.1	613.0
10		26	9.15	121.78	8	53	12.1	611.3
11		28	10.93	122.04	9	3	23.4	609.4
12	14	30	12.97	122.31	− 9	13	32.8	−607.6
13		32	15.28	122.58		23	40.4	605.8
14		34	17.86	122.86		33	46.2	603.9
15		36	20.72	123.13		43	50.1	601.8
16		38	23.85	123.42	9	53	51.9	599.9
17		40	27.27	123.70	10	3	51.8	597.6
18	14	42	30.97	123.99	−10	13	49.4	−595.6
19		44	34.96	124.29		23	45.0	593.3
20		46	39.25	124.58		33	38.3	591.1
21		48	43.83	124.88		43	29.4	588.7
22		50	48.71	125.19	10	53	18.1	586.4
23		52	53.90	125.48	11	3	4.5	583.9

1月20日

0	14	54	59.38	125.79	−11	12	48.4	−581.5
1		57	5.17	126.10		22	29.9	578.8
2	14	59	11.27	126.42		32	8.7	576.2
3	15	1	17.69	126.74		41	44.9	573.5
4		3	24.43	127.06	11	51	18.4	570.8
5		5	31.49	127.38	12	0	49.2	568.0
6	15	7	38.87	127.72	−12	10	17.2	−565.1
7		9	46.59	128.03		19	42.3	562.0
8		11	54.62	128.37		29	4.3	559.1
9		14	2.99	128.70		38	23.4	556.1
10		16	11.69	129.04		47	39.5	552.9
11		18	20.73	129.38	12	56	52.4	549.7
12	15	20	30.11	129.73	−13	6	2.1	−546.5
13		22	39.84	130.06		15	8.6	543.1
14		24	49.90	130.41		24	11.7	539.7
15		27	0.31	130.76		33	11.4	536.2
16		29	11.07	131.12		42	7.6	532.7
17		31	22.19	131.47		51	0.3	529.1
18	15	33	33.66	131.83	−13	59	49.4	−525.4
19		35	45.49	132.18	14	8	34.8	521.6
20		37	57.67	132.54		17	16.4	517.8
21		40	10.21	132.90		25	54.2	513.9
22		42	23.11	133.27		34	28.1	510.0
23		44	36.38	133.63		42	58.1	−505.9
24	15	46	50.01		−14	51	24.0	

1月21日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	15	46	50.01	134.01	−14	51	24.0	−501.8
1		49	4.02	134.37		14	59	45.8	497.6
2		51	18.39	134.74		15	8	3.4	493.5
3		53	33.13	135.11			16	16.9	489.0
4		55	48.24	135.49			24	25.9	484.6
5	15	58	3.73	135.87			32	30.5	480.2
6	16	0	19.60	136.24	−15		40	30.7	−475.6
7		2	35.84	136.61			48	26.3	471.0
8		4	52.45	136.99		15	56	17.3	466.4
9		7	9.44	137.37		16	4	3.7	461.5
10		9	26.81	137.76			11	45.2	456.7
11		11	44.57	138.13			19	21.9	451.7
12	16	14	2.70	138.52	−16		26	53.6	−446.8
13		16	21.22	138.89			34	20.4	441.7
14		18	40.11	139.28			41	42.1	436.5
15		20	59.39	139.66			48	58.6	431.2
16		23	19.05	140.05		16	56	9.8	426.0
17		25	39.10	140.42		17	3	15.8	420.5
18	16	27	59.52	140.81	−17		10	16.3	−415.1
19		30	20.33	141.18			17	11.4	409.5
20		32	41.51	141.57			24	0.9	404.0
21		35	3.08	141.95			30	44.9	398.1
22		37	25.03	142.33			37	23.0	392.4
23		39	47.36	142.71			43	55.4	386.6

1月22日

0	16	42	10.07	143.09	−17	50	22.0	−380.7
1		44	33.16	143.46		17	56	42.7	374.6
2		46	56.62	143.85		18	2	57.3	368.5
3		49	20.47	144.22			9	5.8	362.3
4		51	44.69	144.61			15	8.1	356.2
5		54	9.30	144.96			21	4.3	349.7
6	16	56	34.26	145.34	−18		26	54.0	−343.4
7	16	58	59.60	145.70			32	37.4	336.9
8	17	1	25.30	146.08			38	14.3	330.3
9		3	51.38	146.43			43	44.6	323.7
10		6	17.81	146.81			49	8.3	317.1
11		8	44.62	147.16			54	25.4	310.2
12	17	11	11.78	147.52	−18		59	35.6	−303.5
13		13	39.30	147.87		19	4	39.1	296.4
14		16	7.17	148.23			9	35.5	289.4
15		18	35.40	148.58			14	24.9	282.4
16		21	3.98	148.93			19	7.3	275.3
17		23	32.91	149.26			23	42.6	268.0
18	17	26	2.17	149.61	−19		28	10.6	−260.7
19		28	31.78	149.95			32	31.3	253.3
20		31	1.73	150.28			36	44.6	245.9
21		33	32.01	150.60			40	50.5	238.5
22		36	2.61	150.93			44	49.0	230.9
23		38	33.54	151.25			48	39.9	223.2

1月23日

0	17	41	4.79	151.57	−19	52	23.1	−215.6
1		43	36.36	151.88		55	58.7	207.7
2		46	8.24	152.19	19	59	26.4	200.0
3		48	40.43	152.49	20	2	46.4	191.9
4		51	12.92	152.79		5	58.3	184.1
5		53	45.71	153.08		9	2.4	176.0
6	17	56	18.79	153.37	−20	11	58.4	−168.0
7	17	58	52.16	153.65		14	46.4	159.8
8	18	1	25.81	153.92		17	26.2	151.6
9		3	59.73	154.20		19	57.8	143.4
10		6	33.93	154.47		22	21.2	135.2
11		9	8.40	154.73		24	36.4	−126.7
12	18	11	43.13		−20	26	43.1	

1月23日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 12	18	11	43.13	154.99	−20	26	43.1	−118.3
13		14	18.12	155.22		28	41.4	109.9
14		16	53.34	155.48		30	31.3	101.4
15		19	28.82	155.71		32	12.7	92.7
16		22	4.53	155.95		33	45.4	84.2
17		24	40.48	156.16		35	9.6	75.5
18	18	27	16.64	156.38	−20	36	25.1	− 66.9
19		29	53.02	156.59		37	32.0	58.1
20		32	29.61	156.79		38	30.1	49.3
21		35	6.40	156.99		39	19.4	40.5
22		37	43.39	157.18		39	59.9	31.6
23		40	20.57	157.35		40	31.5	22.8

1月24日

0	18	42	57.92	157.54	−20	40	54.3	
1		45	35.46	157.70		41	8.2	− 13.9
2		48	13.16	157.86		41	13.1	− 4.9
3		50	51.02	158.02		41	9.0	+ 4.1
4		53	29.04	158.17		40	56.0	13.0
5		56	7.21	158.30		40	33.9	22.1
6	18	58	45.51	158.44	−20	40	2.8	31.1
7	19	1	23.95	158.55		39	22.5	+ 40.3
8		4	2.50	158.68		38	33.3	49.2
9		6	41.18	158.77		37	34.9	58.4
10		9	19.95	158.88		36	27.4	67.5
11		11	58.83	158.98		35	10.8	76.6
12	19	14	37.81	159.07	−20	33	45.0	85.8
13		17	16.88	159.14		32	10.1	+ 94.9
14		19	56.02	159.21		30	26.0	104.1
15		22	35.23	159.26		28	32.8	113.2
16		25	14.49	159.33		26	30.4	122.4
17		27	53.82	159.36		24	18.8	131.6
18	19	30	33.18	159.40	−20	21	58.1	140.7
19		33	12.58	159.44		19	28.3	+149.8
20		35	52.02	159.46		16	49.3	159.0
21		38	31.48	159.47		14	1.2	168.1
22		41	10.95	159.48		11	4.0	177.2
23		43	50.43	159.48		7	57.6	186.4
								195.4

1月25日

0	19	46	29.91	159.47	−20	4	42.2	+204.6
1		49	9.38	159.45		20	1	17.6	213.5
2		51	48.83	159.43		19	57	44.1	222.6
3		54	28.26	159.39			54	1.5	231.6
4		57	7.65	159.36			50	9.9	240.6
5	19	59	47.01	159.31			46	9.3	249.6
6	20	2	26.32	159.25	−19	41	59.7	+258.5
7		5	5.57	159.19			37	41.2	267.2
8		7	44.76	159.13			33	14.0	276.2
9		10	23.89	159.04			28	37.8	285.0
10		13	2.93	158.97			23	52.8	293.8
11		15	41.90	158.86			18	59.0	302.5
12	20	18	20.76	158.78	−19	13	56.5	+311.2
13		20	59.54	158.67			8	45.3	319.8
14		23	38.21	158.56	19	3	25.5	328.5
15		26	16.77	158.44	18	57	57.0	337.0
16		28	55.21	158.32			52	20.0	345.5
17		31	33.53	158.18			46	34.5	353.9
18	20	34	11.71	158.05	−18	40	40.6	+362.2
19		36	49.76	157.91			34	38.4	370.6
20		39	27.67	157.76			28	27.8	378.9
21		42	5.43	157.60			22	8.9	387.0
22		44	43.03	157.44			15	41.9	395.3
23		47	20.47	157.27			9	6.6	403.2
24	20	49	57.74		−18	2	23.4	

世界時	赤経				赤緯			
	1月26日							
h	h	m	s	s	°	′	″	″
0	20	49	57.74	157.10	−18	2	23.4	+411.3
1		52	34.84	156.92	17	55	32.1	419.3
2		55	11.76	156.74		48	32.8	427.1
3	20	57	48.50	156.54		41	25.7	434.9
4	21	0	25.04	156.35		34	10.8	442.7
5		3	1.39	156.15		26	48.1	450.3
6	21	5	37.54	155.95	−17	19	17.8	+457.9
7		8	13.49	155.74		11	39.9	465.3
8		10	49.23	155.53	17	3	54.6	472.8
9		13	24.76	155.30	16	56	1.8	480.1
10		16	0.06	155.08		48	1.7	487.4
11		18	35.14	154.86		39	54.3	494.6
12	21	21	10.00	154.63	−16	31	39.7	+501.7
13		23	44.63	154.39		23	18.0	508.7
14		26	19.02	154.16		14	49.3	515.7
15		28	53.18	153.91	16	6	13.6	522.4
16		31	27.09	153.67	15	57	31.2	529.2
17		34	0.76	153.42		48	42.0	535.8
18	21	36	34.18	153.17	−15	39	46.2	+542.5
19		39	7.35	152.91		30	43.7	548.8
20		41	40.26	152.66		21	34.9	555.3
21		44	12.92	152.40		12	19.6	561.6
22		46	45.32	152.13	15	2	58.0	567.8
23		49	17.45	151.87	14	53	30.2	573.9
	1月27日							
0	21	51	49.32	151.61	−14	43	56.3	+579.9
1		54	20.93	151.33		34	16.4	585.8
2		56	52.26	151.06		24	30.6	591.6
3	21	59	23.32	150.78		14	39.0	597.3
4	22	1	54.10	150.52	14	4	41.7	603.0
5		4	24.62	150.23	13	54	38.7	608.5
6	22	6	54.85	149.96	−13	44	30.2	+613.9
7		9	24.81	149.67		34	16.3	619.2
8		11	54.48	149.40		23	57.1	624.4
9		14	23.88	149.11		13	32.7	629.6
10		16	52.99	148.83	13	3	3.1	634.6
11		19	21.82	148.55	12	52	28.5	639.5
12	22	21	50.37	148.26	−12	41	49.0	+644.3
13		24	18.63	147.98		31	4.7	649.1
14		26	46.61	147.70		20	15.6	653.7
15		29	14.31	147.41	12	9	21.9	658.2
16		31	41.72	147.12	11	58	23.7	662.6
17		34	8.84	146.84		47	21.1	667.0
18	22	36	35.68	146.55	−11	36	14.1	+671.1
19		39	2.23	146.27		25	3.0	675.3
20		41	28.50	145.99		13	47.7	679.2
21		43	54.49	145.70	11	2	28.5	683.2
22		46	20.19	145.41	10	51	5.3	687.0
23		48	45.60	145.13		39	38.3	690.8
	1月28日							
0	22	51	10.73	144.85	−10	28	7.5	+694.4
1		53	35.58	144.57		16	33.1	697.7
2		56	0.15	144.28	10	4	55.4	701.2
3	22	58	24.43	144.00	9	53	14.2	704.5
4	23	0	48.43	143.73		41	29.7	707.7
5		3	12.16	143.44		29	42.0	710.8
6	23	5	35.60	143.18	− 9	17	51.2	+713.8
7		7	58.73	142.89	9	5	57.4	716.7
8		10	21.67	142.63	8	54	0.7	719.5
9		12	44.30	142.34		42	1.2	722.3
10		15	6.64	142.08		29	58.9	724.8
11		17	28.72	141.80		17	54.1	+727.4
12	23	19	50.52		− 8	5	46.7	

世界時	赤経				赤緯			
	1月28日							
h	h	m	s	s	°	′	″	″
12	23	19	50.52	141.54	− 8	5	46.7	+729.7
13		22	12.06	141.27	7	53	37.0	732.1
14		24	33.33	141.01		41	24.9	734.3
15		26	54.34	140.75		29	10.6	736.4
16		29	15.09	140.50		16	54.2	738.4
17		31	35.59	140.23	7	4	35.8	740.4
18	23	33	55.82	139.98	− 6	52	15.4	+742.2
19		36	15.80	139.72		39	53.2	743.9
20		38	35.52	139.47		27	29.3	745.6
21		40	54.99	139.23		15	3.7	747.2
22		43	14.22	138.98	6	2	36.5	748.6
23		45	33.20	138.73	5	50	7.9	750.0
	1月29日							
0	23	47	51.93	138.49	− 5	37	37.9	+751.3
1		50	10.42	138.25		25	6.6	752.4
2		52	28.67	138.02		12	34.2	753.5
3		54	46.69	137.78	5	0	0.7	754.5
4		57	4.47	137.56	4	47	26.2	755.5
5	23	59	22.03	137.33		34	50.7	756.3
6	0	1	39.36	137.10	− 4	22	14.4	+757.1
7		3	56.46	136.88	4	9	37.3	757.6
8		6	13.34	136.66	3	56	59.7	758.3
9		8	30.00	136.44		44	21.4	758.6
10		10	46.44	136.23		31	42.8	759.1
11		13	2.67	136.01		19	3.7	759.5
12	0	15	18.68	135.81	− 3	6	24.2	+759.7
13		17	34.49	135.60	2	53	44.5	759.8
14		19	50.09	135.41		41	4.7	759.9
15		22	5.50	135.20		28	24.8	759.8
16		24	20.70	135.01		15	45.0	759.8
17		26	35.71	134.81	2	3	5.2	759.6
18	0	28	50.52	134.62	− 1	50	25.6	+759.5
19		31	5.14	134.43		37	46.1	759.0
20		33	19.57	134.26		25	7.1	758.7
21		35	33.83	134.07	1	12	28.4	758.0
22		37	47.90	133.90	0	59	50.4	757.6
23		40	1.80	133.71		47	12.8	756.9
	1月30日							
0	0	42	15.51	133.55	− 0	34	35.9	+756.2
1		44	29.06	133.38		21	59.7	755.4
2		46	42.44	133.22	− 0	9	24.3	754.6
3		48	55.66	133.05	+ 0	3	10.3	753.5
4		51	8.71	132.90		15	43.8	752.6
5		53	21.61	132.74		28	16.4	751.5
6	0	55	34.35	132.60	+ 0	40	47.9	+750.4
7		57	46.95	132.43	0	53	18.3	749.1
8	0	59	59.38	132.29	1	5	47.4	747.9
9	1	2	11.67	132.15		18	15.3	746.4
10		4	23.82	132.02		30	41.7	745.1
11		6	35.84	131.87		43	6.8	743.5
12	1	8	47.71	131.74	+ 1	55	30.3	+742.0
13		10	59.45	131.61	2	7	52.3	740.3
14		13	11.06	131.49		20	12.6	738.7
15		15	22.55	131.36		32	31.3	736.9
16		17	33.91	131.25		44	48.2	735.0
17		19	45.16	131.12	2	57	3.2	733.2
18	1	21	56.28	131.02	+ 3	9	16.4	+731.3
19		24	7.30	130.89		21	27.7	729.2
20		26	18.19	130.79		33	36.9	727.2
21		28	28.98	130.69		45	44.1	725.0
22		30	39.67	130.59	3	57	49.1	722.8
23		32	50.26	130.49	4	9	51.9	+720.5
24	1	35	0.75		+ 4	21	52.4	

世界時	赤経				赤緯			
	1月31日							
h	h	m	s	s	°	′	″	″
0	1	35	0.75	130.40	+ 4	21	52.4	+718.3
1		37	11.15	130.30		33	50.7	715.8
2		39	21.45	130.21		45	46.5	713.4
3		41	31.66	130.13	4	57	39.9	710.9
4		43	41.79	130.04	5	9	30.8	708.4
5		45	51.83	129.96		21	19.2	705.8
6	1	48	1.79	129.89	+ 5	33	5.0	+703.2
7		50	11.63	129.80		44	48.2	700.3
8		52	21.48	129.74	5	56	28.5	697.6
9		54	31.22	129.67	6	8	6.1	694.8
10		56	40.89	129.60		19	40.9	692.0
11	1	58	50.49	129.54		31	12.9	688.9
12	2	1	0.03	129.48	+ 6	42	41.8	+686.0
13		3	9.51	129.42	6	54	7.8	683.0
14		5	18.93	129.37	7	5	30.8	680.0
15		7	28.30	129.30		16	50.8	676.7
16		9	37.60	129.26		28	7.5	673.6
17		11	46.86	129.22		39	21.1	670.3
18	2	13	56.03	129.17	+ 7	50	31.4	+667.1
19		16	5.25	129.13	8	1	38.5	663.6
20		18	14.38	129.09		12	42.1	660.3
21		20	23.47	129.04		23	42.4	656.9
22		22	32.51	129.02		34	39.3	653.4
23		24	41.53	128.98		45	32.7	649.8
	2月1日							
0	2	26	50.51	128.95	+ 8	56	22.5	+646.3
1		28	59.46	128.93	9	7	8.8	642.6
2		31	8.39	128.90		17	51.4	639.1
3		33	17.29	128.88		28	30.5	635.2
4		35	26.17	128.87		39	5.7	631.6
5		37	35.04	128.84	9	49	37.3	627.7
6	2	39	43.88	128.83	+10	0	5.0	+623.9
7		41	52.71	128.81		10	28.9	619.9
8		44	1.52	128.81		20	48.8	616.1
9		46	10.33	128.78		31	4.9	612.0
10		48	19.11	128.78		41	16.9	608.1
11		50	27.89	128.78	10	51	25.0	604.0
12	2	52	36.67	128.77	+11	1	29.0	+600.0
13		54	45.44	128.77		11	29.0	595.7
14		56	54.21	128.77		21	24.7	591.6
15	2	59	2.98	128.77		31	16.3	587.4
16	3	1	11.75	128.78		41	3.7	583.2
17		3	20.53	128.78	11	50	46.9	578.8
18	3	5	29.31	128.80	+12	0	25.7	+574.5
19		7	38.11	128.79		10	0.2	570.1
20		9	46.90	128.80		19	30.3	565.7
21		11	55.70	128.82		28	56.0	561.3
22		14	4.52	128.83		38	17.3	556.8
23		16	13.35	128.84		47	34.1	552.2
	2月2日							
0	3	18	22.19	128.86	+12	56	46.3	+547.7
1		20	31.05	128.88	13	5	54.0	543.1
2		22	39.93	128.90		14	57.1	538.5
3		24	48.83	128.92		23	55.6	533.8
4		26	57.75	128.94		32	49.4	529.1
5		29	6.69	128.96		41	38.5	524.3
6	3	31	15.65	128.99	+13	50	22.8	+519.6
7		33	24.64	129.00	13	59	2.4	514.7
8		35	33.64	129.04	14	7	37.1	509.9
9		37	42.63	129.06		16	7.0	505.1
10		39	51.74	129.10		24	32.1	500.2
11		42	0.84	129.11		32	52.3	495.2
12	3	44	9.95		+14	41	7.5	

世界時	赤経				赤緯			
	2月2日							
h	h	m	s	s	°	′	″	″
12	3	44	9.95	129.15	+14	41	7.5	+490.3
13		46	19.10	129.18		49	17.8	485.2
14		48	28.28	129.21	14	57	23.0	480.2
15		50	37.49	129.24	15	5	23.2	475.2
16		52	46.73	129.27		13	18.4	470.2
17		54	56.00	129.30		21	8.6	464.9
18	3	57	5.30	129.34	+15	28	53.5	+459.9
19	3	59	14.64	129.37		36	33.4	454.6
20	4	1	24.01	129.40		44	8.0	449.4
21		3	33.41	129.44		51	37.4	444.2
22		5	42.85	129.47	15	59	1.6	438.9
23		7	52.32	129.51	16	6	20.5	433.6
	2月3日							
0	4	10	1.83	129.54	+16	13	34.1	+428.4
1		12	11.37	129.58		20	42.5	422.9
2		14	20.95	129.62		27	45.4	417.7
3		16	30.57	129.65		34	43.1	412.2
4		18	40.22	129.69		41	35.3	406.8
5		20	49.91	129.72		48	22.1	401.3
6	4	22	59.63	129.75	+16	55	3.4	+396.0
7		25	9.38	129.79	17	1	39.4	390.3
8		27	19.17	129.83		8	9.7	384.9
9		29	29.00	129.87		14	34.6	379.2
10		31	38.87	129.90		20	53.8	373.8
11		33	48.77	129.93		27	7.6	368.1
12	4	35	58.70	129.97	+17	33	15.7	+362.6
13		38	8.67	130.00		39	18.3	356.9
14		40	18.67	130.03		45	15.2	351.2
15		42	28.70	130.07		51	6.4	345.6
16		44	38.77	130.10	17	56	52.0	339.9
17		46	48.87	130.13	18	2	31.9	334.1
18	4	48	59.00	130.15	+18	8	6.0	+328.4
19		51	9.15	130.19		13	34.4	322.6
20		53	19.34	130.22		18	57.0	316.9
21		55	29.56	130.25		24	13.9	311.0
22		57	39.81	130.28		29	24.9	305.3
23	4	59	50.09	130.30		34	30.2	299.4
	2月4日							
0	5	2	0.39	130.33	+18	39	29.6	+293.6
1		4	10.72	130.34		44	23.2	287.8
2		6	21.06	130.38		49	11.0	281.9
3		8	31.44	130.39		53	52.9	275.9
4		10	41.83	130.42	18	58	28.8	270.1
5		12	52.25	130.44	19	2	58.9	264.1
6	5	15	2.69	130.45	+19	7	23.0	+258.2
7		17	13.14	130.47		11	41.2	252.2
8		19	23.61	130.49		15	53.4	246.3
9		21	34.10	130.51		19	59.7	240.2
10		23	44.61	130.52		23	59.9	234.3
11		25	55.13	130.53		27	54.2	228.3
12	5	28	5.66	130.54	+19	31	42.5	+222.3
13		30	16.20	130.55		35	24.8	216.3
14		32	26.75	130.57		39	1.1	210.2
15		34	37.32	130.56		42	31.3	204.2
16		36	47.88	130.58		45	55.5	198.1
17		38	58.46	130.57		49	13.6	192.0
18	5	41	9.03	130.58	+19	52	25.6	+186.0
19		43	19.61	130.57		55	31.6	179.9
20		45	30.18	130.57	19	58	31.5	173.9
21		47	40.75	130.57	20	1	25.4	167.6
22		49	51.32	130.56		4	13.0	161.7
23		52	1.88	130.55		6	54.7	+155.4
24	5	54	12.43		+20	9	30.1	

2月5日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	5	54	12.43	130.55	+20	9	30.1	+149.5
1		56	22.98	130.53		11	59.6	143.2
2	5	58	33.51	130.53		14	22.8	137.2
3	6	0	44.04	130.50		16	40.0	131.0
4		2	54.54	130.49		18	51.0	125.0
5		5	5.03	130.47		20	56.0	118.7
6	6	7	15.50	130.45	+20	22	54.7	+112.7
7		9	25.95	130.42		24	47.4	106.4
8		11	36.37	130.40		26	33.8	100.5
9		13	46.77	130.38		28	14.3	94.2
10		15	57.15	130.36		29	48.5	88.2
11		18	7.51	130.31		31	16.7	81.9
12	6	20	17.82	130.29	+20	32	38.6	+ 75.9
13		22	28.11	130.24		33	54.5	69.7
14		24	38.35	130.22		35	4.2	63.7
15		26	48.57	130.17		36	7.9	57.4
16		28	58.74	130.13		37	5.3	51.4
17		31	8.87	130.08		37	56.7	45.1
18	6	33	18.95	130.04	+20	38	41.8	+ 39.2
19		35	28.99	129.95		39	21.0	33.0
20		37	38.98	129.89		39	54.0	27.0
21		39	48.93	129.84		40	21.0	20.7
22		41	58.82	129.78		40	41.7	14.7
23		44	8.66			40	56.4	8.7

2月6日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	6	46	18.44	129.72	+20	41	5.1	+ 2.5
1		48	28.16	129.66		41	7.6	− 3.4
2		50	37.82	129.60		41	4.2	9.6
3		52	47.42	129.53		40	54.6	15.6
4		54	56.95	129.48		40	39.0	21.7
5		57	6.43	129.39		40	17.3	27.7
6	6	59	15.82	129.33	+20	39	49.6	− 33.7
7	7	1	25.15	129.24		39	15.9	39.7
8		3	34.39	129.18		38	36.2	45.7
9		5	43.57	129.10		37	50.5	51.7
10		7	52.67	129.02		36	58.8	57.6
11		10	1.69	128.94		36	1.2	63.6
12	7	12	10.63	128.86	+20	34	57.6	− 69.5
13		14	19.49	128.77		33	48.1	75.5
14		16	28.26	128.69		32	32.6	81.5
15		18	36.95	128.58		31	11.1	87.2
16		20	45.53	128.50		29	43.9	93.2
17		22	54.03	128.40		28	10.7	99.0
18	7	25	2.43	128.31	+20	26	31.7	−105.0
19		27	10.74	128.21		24	46.7	110.7
20		29	18.95	128.11		22	56.0	116.5
21		31	27.06	128.01		20	59.5	122.3
22		33	35.07	127.90		18	57.2	128.1
23		35	42.97	127.80		16	49.1	133.8

2月7日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
12	8	3	15.48	126.27	+19	40	27.9	−206.8
13		5	21.75	126.14		37	1.1	212.1
14		7	27.89	126.02		33	29.0	217.5
15		9	33.91	125.87		29	51.5	222.9
16		11	39.78	125.75		26	8.6	228.3
17		13	45.53	125.60		22	20.3	233.7
18	8	15	51.13	125.48	+19	18	26.6	−239.0
19		17	56.61	125.34		14	27.6	244.1
20		20	1.95	125.21		10	23.5	249.5
21		22	7.16	125.06		6	14.0	254.6
22		24	12.22	124.93	19	1	59.4	259.9
23		26	17.15	124.78	18	57	39.5	265.1

2月8日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	8	28	21.93	124.64	+18	53	14.4	−270.2
1		30	26.57	124.50		48	44.2	275.3
2		32	31.07	124.36		44	8.9	280.4
3		34	35.43	124.21		39	28.5	285.4
4		36	39.64	124.06		34	43.1	290.4
5		38	43.70	123.92		29	52.7	295.4
6	8	40	47.62	123.77	+18	24	57.3	−300.3
7		42	51.39	123.62		19	57.0	305.3
8		44	55.01	123.47		14	51.7	310.2
9		46	58.48	123.33		9	41.5	315.0
10		49	1.81	123.18	18	4	26.5	319.9
11		51	4.99	123.02	17	59	6.6	324.6
12	8	53	8.01	122.88	+17	53	42.0	−329.4
13		55	10.89	122.72		48	12.6	334.2
14		57	13.61	122.57		42	38.4	338.9
15	8	59	16.18	122.41		36	59.5	343.4
16	9	1	18.59	122.27		31	16.1	348.1
17		3	20.86	122.11		25	28.0	352.7
18	9	5	22.97	121.96	+17	19	35.3	−357.3
19		7	24.93	121.80		13	38.0	361.8
20		9	26.73	121.66		7	36.2	366.3
21		11	28.39	121.49	17	1	29.9	370.7
22		13	29.88	121.35	16	55	19.2	375.2
23		15	31.23	121.19		49	4.0	379.6

2月9日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	9	17	32.42	121.04	+16	42	44.4	−383.9
1		19	33.46	120.88		36	20.5	388.2
2		21	34.34	120.73		29	52.3	392.6
3		23	35.07	120.57		23	19.7	396.7
4		25	35.64	120.43		16	43.0	401.0
5		27	36.07	120.26		10	2.0	405.1
6	9	29	36.33	120.13	+16	3	16.9	−409.3
7		31	36.46	119.96	15	56	27.6	413.4
8		33	36.42	119.82		49	34.2	417.5
9		35	36.24	119.65		42	36.7	421.5
10		37	35.89	119.51		35	35.2	425.5
11		39	35.40	119.35		28	29.7	429.4
12	9	41	34.75	119.20	+15	21	20.3	−433.4
13		43	33.95	119.06		14	6.9	437.2
14		45	33.01	118.91	15	6	49.7	441.1
15		47	31.92	118.76	14	59	28.6	444.9
16		49	30.68	118.61		52	3.7	448.6
17		51	29.29	118.46		44	35.1	452.4
18	9	53	27.75	118.32	+14	37	2.7	−456.2
19		55	26.07	118.17		29	26.5	459.7
20		57	24.24	118.02		21	46.8	463.4
21	9	59	22.26	117.88		14	3.4	467.0
22	10	1	20.14	117.74	14	6	16.4	470.5
23		3	17.88	117.59	13	58	25.9	−474.1
24	10	5	15.47		+13	50	31.8	−474.1

2月10日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	10	5	15.47	117.46	+13	50	31.8	−477.6
1		7	12.93	117.31		42	34.2	480.9
2		9	10.24	117.18		34	33.3	484.4
3		11	7.42	117.03		26	28.9	487.8
4		13	4.45	116.90		18	21.1	491.1
5		15	1.35	116.76		10	10.0	494.3
6	10	16	58.11	116.63	+13	1	55.7	−497.6
7		18	54.74	116.49	12	53	38.1	500.8
8		20	51.23	116.37		45	17.3	504.0
9		22	47.60	116.23		36	53.3	507.2
10		24	43.83	116.10		28	26.1	510.2
11		26	39.93	115.98		19	55.9	513.2
12	10	28	35.91	115.85	+12	11	22.7	−516.3
13		30	31.76	115.72	12	2	46.4	519.3
14		32	27.48	115.60	11	54	7.1	522.2
15		34	23.08	115.47		45	24.9	525.2
16		36	18.55	115.36		36	39.7	528.1
17		38	13.91	115.23		27	51.6	530.8
18	10	40	9.14	115.12	+11	19	0.8	−533.7
19		42	4.26	115.00		10	7.1	536.5
20		43	59.26	114.89	11	1	10.6	539.2
21		45	54.15	114.77	10	52	11.4	541.8
22		47	48.92	114.67		43	9.6	544.5
23		49	43.59	114.56		34	5.1	547.1

2月11日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	10	51	38.15	114.45	+10	24	58.0	−549.7
1		53	32.60	114.35		15	48.3	552.2
2		55	26.95	114.24	10	6	36.1	554.7
3		57	21.19	114.14	9	57	21.4	557.1
4	10	59	15.33	114.05		48	4.3	559.6
5	11	1	9.38	113.94		38	44.7	562.0
6	11	3	3.32	113.85	+ 9	29	22.7	−564.3
7		4	57.17	113.75		19	58.4	566.7
8		6	50.92	113.67		10	31.7	568.9
9		8	44.59	113.56	9	1	2.8	571.1
10		10	38.15	113.48	8	51	31.7	573.4
11		12	31.63	113.40		41	58.3	575.5
12	11	14	25.03	113.32	+ 8	32	22.8	−577.7
13		16	18.35	113.23		22	45.1	579.6
14		18	11.58	113.16		13	5.5	581.8
15		20	4.74	113.07	8	3	23.7	583.8
16		21	57.81	113.01	7	53	39.9	585.8
17		23	50.82	112.92		43	54.1	587.7
18	11	25	43.74	112.86	+ 7	34	6.4	−589.7
19		27	36.60	112.79		24	16.7	591.4
20		29	29.39	112.73		14	25.3	593.3
21		31	22.12	112.66	7	4	32.0	595.1
22		33	14.78	112.61	6	54	36.9	596.9
23		35	7.39	112.54		44	40.0	598.6

2月12日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	11	36	59.93	112.50	+ 6	34	41.4	−600.3
1		38	52.43	112.43		24	41.1	601.9
2		40	44.86	112.38		14	39.2	603.5
3		42	37.24	112.34	6	4	35.7	605.1
4		44	29.58	112.29	5	54	30.6	606.6
5		46	21.87	112.25		44	24.0	608.2
6	11	48	14.12	112.21	+ 5	34	15.8	−609.6
7		50	6.33	112.16		24	6.2	611.0
8		51	58.49	112.14		13	55.2	612.4
9		53	50.63	112.09	5	3	42.8	613.8
10		55	42.72	112.07	4	53	29.0	615.1
11		57	34.79	112.04		43	13.9	−616.3
12	11	59	26.83		+ 4	32	57.6	−616.3

2月12日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
12	11	59	26.83	112.01	+ 4	32	57.6	−617.6
13	12	1	18.84	111.99		22	40.0	618.8
14		3	10.83	111.98		12	21.2	620.0
15		5	2.81	111.95	4	2	1.2	621.1
16		6	54.76	111.95	3	51	40.1	622.3
17		8	46.71	111.92		41	17.8	623.2
18	12	10	38.63	111.92	+ 3	30	54.6	−624.3
19		12	30.55	111.91		20	30.3	625.3
20		14	22.46	111.91	3	10	5.0	626.2
21		16	14.37	111.91	2	59	38.8	627.1
22		18	6.28	111.91		49	11.7	628.1
23		19	58.19	111.91		38	43.6	628.8

2月13日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	12	21	50.10	111.92	+ 2	28	14.8	−629.7
1		23	42.02	111.94		17	45.1	630.4
2		25	33.96	111.95	2	7	14.7	631.2
3		27	25.91	111.96	1	56	43.5	631.9
4		29	17.87	111.99		46	11.6	632.6
5		31	9.86	112.00		35	39.0	633.1
6	12	33	1.86	112.04	+ 1	25	5.9	−633.7
7		34	53.90	112.05		14	32.2	634.3
8		36	45.95	112.09	1	3	57.9	634.9
9		38	38.04	112.13	0	53	23.0	635.2
10		40	30.17	112.17		42	47.8	635.7
11		42	22.34	112.20		32	12.1	636.1
12	12	44	14.54	112.25	+ 0	21	36.0	−636.5
13		46	6.79	112.29		10	59.5	636.8
14		47	59.08	112.34	+ 0	0	22.7	637.1
15		49	51.42	112.40	− 0	10	14.4	637.3
16		51	43.82	112.45		20	51.7	637.6
17		53	36.27	112.51		31	29.3	637.8
18	12	55	28.78	112.58	− 0	42	7.1	−637.9
19		57	21.36	112.63	0	52	45.0	637.9
20	12	59	13.99	112.70	1	3	22.9	638.1
21	13	1	6.69	112.78		14	1.0	638.0
22		2	59.47	112.85		24	39.0	638.1
23		4	52.32	112.93		35	17.1	638.0

2月14日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	13	6	45.25	113.01	− 1	45	55.1	−638.0
1		8	38.26	113.09	1	56	33.1	637.8
2		10	31.35	113.18	2	7	10.9	637.6
3		12	24.53	113.27		17	48.5	637.4
4		14	17.80	113.37		28	25.9	637.2
5		16	11.17	113.46		39	3.1	636.9
6	13	18	4.63	113.56	− 2	49	40.0	−636.6
7		19	58.19	113.66	3	0	16.6	636.2
8		21	51.85	113.77		10	52.8	635.8
9		23	45.62	113.88		21	28.6	635.4
10		25	39.50	113.99		32	4.0	635.0
11		27	33.49	114.11		42	39.0	634.3
12	13	29	27.60	114.23	− 3	53	13.3	−633.8
13		31	21.83	114.35	4	3	47.1	633.2
14		33	16.18	114.49		14	20.3	632.6
15		35	10.67	114.60		24	52.9	631.9
16		37	5.27	114.74		35	24.8	631.2
17		39	0.01	114.87		45	56.0	630.4
18	13	40	54.88	115.02	− 4	56	26.4	−629.7
19		42	49.90	115.16	5	6	56.1	628.8
20		44	45.06	115.31		17	24.9	628.0
21		46	40.37	115.45		27	52.9	626.9
22		48	35.82	115.61		38	19.8	626.0
23		50	31.43	115.76		48	45.8	625.0
24	13	52	27.19		− 5	59	10.8	−625.0

2 月 15 日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	13	52	27.19	115.92	− 5	59	10.8	−624.1
1		54	23.11	116.08	6	9	34.9	622.8
2		56	19.19	116.24		19	57.7	621.7
3	13	58	15.43	116.42		30	19.4	620.5
4	14	0	11.85	116.59		40	39.9	619.3
5		2	8.44	116.77	6	50	59.2	618.1
6	14	4	5.21	116.95	− 7	1	17.3	−616.8
7		6	2.16	117.12		11	34.1	615.3
8		7	59.28	117.32		21	49.4	614.0
9		9	56.60	117.49		32	3.4	612.5
10		11	54.09	117.69		42	15.9	611.1
11		13	51.78	117.89	7	52	27.0	609.4
12	14	15	49.67	118.09	− 8	2	36.4	−607.9
13		17	47.76	118.28		12	44.3	606.3
14		19	46.04	118.50		22	50.6	604.7
15		21	44.54	118.70		32	55.3	602.8
16		23	43.24	118.91		42	58.1	601.1
17		25	42.15	119.13	8	52	59.2	599.3
18	14	27	41.28	119.35	− 9	2	58.5	−597.5
19		29	40.63	119.56		12	56.0	595.5
20		31	40.19	119.80		22	51.5	593.6
21		33	39.99	120.01		32	45.1	591.5
22		35	40.00	120.25		42	36.6	589.5
23		37	40.25	120.48	9	52	26.1	587.3

2 月 16 日

0	14	39	40.73	120.72	−10	2	13.4	−585.3
1		41	41.45	120.96		11	58.7	583.0
2		43	42.41	121.21		21	41.7	580.8
3		45	43.62	121.44		31	22.5	578.4
4		47	45.06	121.70		41	0.9	576.1
5		49	46.76	121.96	10	50	37.0	573.7
6	14	51	48.72	122.21	−11	0	10.7	−571.2
7		53	50.93	122.46		9	41.9	568.6
8		55	53.39	122.73		19	10.5	566.2
9		57	56.12	122.99		28	36.7	563.5
10	14	59	59.11	123.26		38	0.2	560.9
11	15	2	2.37	123.53		47	21.1	558.0
12	15	4	5.90	123.80	−11	56	39.1	−555.3
13		6	9.70	124.08	12	5	54.4	552.5
14		8	13.78	124.36		15	6.9	549.7
15		10	18.14	124.64		24	16.6	546.6
16		12	22.78	124.93		33	23.2	543.7
17		14	27.71	125.20		42	26.9	540.6
18	15	16	32.91	125.50	−12	51	27.5	−537.5
19		18	38.41	125.80	13	0	25.0	534.2
20		20	44.21	126.09		9	19.2	531.1
21		22	50.30	126.38		18	10.3	527.8
22		24	56.68	126.69		26	58.1	524.5
23		27	3.37	126.98		35	42.6	521.0

2 月 17 日

0	15	29	10.35	127.29	−13	44	23.6	−517.6
1		31	17.64	127.59	13	53	1.2	514.0
2		33	25.23	127.91	14	1	35.2	510.5
3		35	33.14	128.22		10	5.7	506.8
4		37	41.36	128.53		18	32.5	503.2
5		39	49.89	128.85		26	55.7	499.4
6	15	41	58.74	129.17	−14	35	15.1	−495.6
7		44	7.91	129.49		43	30.7	491.6
8		46	17.40	129.81		51	42.3	487.7
9		48	27.21	130.13	14	59	50.0	483.7
10		50	37.34	130.47	15	7	53.7	479.7
11		52	47.81	130.78		15	53.4	−475.5
12	15	54	58.59		−15	23	48.9	

2 月 17 日

12	15	54	58.59	131.12	−15	23	48.9	−471.3
13		57	9.71	131.45		31	40.2	467.1
14	15	59	21.16	131.78		39	27.3	462.8
15	16	1	32.94	132.12		47	10.1	458.3
16		3	45.06	132.46	15	54	48.4	454.0
17		5	57.52	132.79	16	2	22.4	449.3
18	16	8	10.31	133.13	−16	9	51.7	−444.8
19		10	23.44	133.47		17	16.5	440.1
20		12	36.91	133.82		24	36.6	435.5
21		14	50.73	134.15		31	52.1	430.7
22		17	4.88	134.51		39	2.8	425.9
23		19	19.39	134.84		46	8.7	420.9

2 月 18 日

0	16	21	34.23	135.19	−16	53	9.6	−415.9
1		23	49.42	135.53	17	0	5.5	410.9
2		26	4.95	135.89		6	56.4	405.9
3		28	20.84	136.22		13	42.3	400.6
4		30	37.06	136.59		20	22.9	395.5
5		32	53.65	136.92		26	58.4	390.0
6	16	35	10.57	137.28	−17	33	28.4	−384.7
7		37	27.85	137.62		39	53.1	379.3
8		39	45.47	137.97		46	12.4	373.8
9		42	3.44	138.33		52	26.2	368.1
10		44	21.77	138.68	17	58	34.3	362.6
11		46	40.45	139.02	18	4	36.9	356.8
12	16	48	59.47	139.38	−18	10	33.7	−351.1
13		51	18.85	139.71		16	24.8	345.2
14		53	38.56	140.08		22	10.0	339.4
15		55	58.64	140.41		27	49.4	333.3
16	16	58	19.05	140.77		33	22.7	327.4
17	17	0	39.82	141.11		38	50.1	321.1
18	17	3	0.93	141.47	−18	44	11.2	−315.0
19		5	22.40	141.80		49	26.2	308.7
20		7	44.20	142.15		54	34.9	302.5
21		10	6.35	142.48	18	59	37.4	296.0
22		12	28.83	142.83	19	4	33.4	289.6
23		14	51.66	143.16		9	23.0	283.0

2 月 19 日

0	17	17	14.82	143.50	−19	14	6.0	−276.5
1		19	38.32	143.84		18	42.5	269.8
2		22	2.16	144.17		23	12.3	263.2
3		24	26.33	144.51		27	35.5	256.3
4		26	50.84	144.85		31	51.8	249.6
5		29	15.69	145.16		36	1.4	242.5
6	17	31	40.85	145.50	−19	40	3.9	−235.6
7		34	6.35	145.81		43	59.5	228.6
8		36	32.16	146.14		47	48.1	221.6
9		38	58.30	146.45		51	29.7	214.3
10		41	24.75	146.77		55	4.0	207.1
11		43	51.52	147.08	19	58	31.1	199.9
12	17	46	18.60	147.40	−20	1	51.0	−192.5
13		48	46.00	147.69		5	3.5	185.1
14		51	13.69	148.01		8	8.6	177.8
15		53	41.70	148.30		11	6.4	170.1
16		56	10.00	148.60		13	56.5	162.6
17	17	58	38.60	148.90		16	39.1	154.9
18	18	1	7.50	149.19	−20	19	14.0	−147.3
19		3	36.69	149.46		21	41.3	139.5
20		6	6.15	149.75		24	0.8	131.7
21		8	35.90	150.03		26	12.5	123.9
22		11	5.93	150.30		28	16.4	116.0
23		13	36.23	150.57		30	12.4	−108.0
24	18	16	6.80		−20	32	0.4	

2 月 20 日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	18	16	6.80	150.84	−20	32	0.4	−100.0
1		18	37.64	151.10		33	40.4	92.0
2		21	8.74	151.35		35	12.4	83.9
3		23	40.09	151.61		36	36.3	75.7
4		26	11.70	151.86		37	52.0	67.6
5		28	43.56	152.09		38	59.6	59.3
6	18	31	15.65	152.33	−20	39	58.9	− 51.1
7		33	47.98	152.56		40	50.0	42.7
8		36	20.54	152.79		41	32.7	34.4
9		38	53.33	153.00		42	7.1	25.9
10		41	26.33	153.22		42	33.0	17.5
11		43	59.55	153.44		42	50.5	9.1
12	18	46	32.99	153.64	−20	42	59.6	− 0.5
13		49	6.63	153.84		43	0.1	+ 8.0
14		51	40.47	154.04		42	52.1	16.6
15		54	14.51	154.21		42	35.5	25.2
16		56	48.72	154.40		42	10.3	33.9
17	18	59	23.12	154.58		41	36.4	42.4
18	19	1	57.70	154.75	−20	40	54.0	+ 51.2
19		4	32.45	154.91		40	2.8	59.9
20		7	7.36	155.07		39	2.9	68.6
21		9	42.43	155.22		37	54.3	77.4
22		12	17.65	155.36		36	36.9	86.2
23		14	53.01	155.50		35	10.7	94.9

2 月 21 日

0	19	17	28.51	155.65	−20	33	35.8	+103.9
1		20	4.16	155.76		31	51.9	112.6
2		22	39.92	155.88		29	59.3	121.5
3		25	15.80	156.00		27	57.8	130.2
4		27	51.80	156.11		25	47.6	139.2
5		30	27.91	156.20		23	28.4	147.9
6	19	33	4.11	156.30	−20	21	0.5	+156.9
7		35	40.41	156.38		18	23.6	165.6
8		38	16.79	156.47		15	38.0	174.6
9		40	53.26	156.54		12	43.4	183.5
10		43	29.80	156.62		9	39.9	192.5
11		46	6.42	156.67		6	27.4	201.2
12	19	48	43.09	156.73	−20	3	6.2	+210.1
13		51	19.82	156.77	19	59	36.1	218.9
14		53	56.59	156.82		55	57.2	227.8
15		56	33.41	156.85		52	9.4	236.6
16	19	59	10.26	156.89		48	12.8	245.5
17	20	1	47.15	156.90		44	7.3	254.2
18	20	4	24.05	156.92	−19	39	53.1	+263.0
19		7	0.97	156.92		35	30.1	271.7
20		9	37.89	156.93		30	58.4	280.4
21		12	14.82	156.93		26	18.0	289.2
22		14	51.75	156.93		21	28.8	298.0
23		17	28.68	156.90		16	30.8	306.5

2 月 22 日

0	20	20	5.58	156.89	−19	11	24.3	+315.2
1		22	42.47	156.85		6	9.1	323.7
2		25	19.32	156.82	19	0	45.4	332.4
3		27	56.14	156.77	18	55	13.0	340.9
4		30	32.91	156.74		49	32.1	349.4
5		33	9.65	156.67		43	42.7	357.7
6	20	35	46.32	156.62	−18	37	45.0	+366.2
7		38	22.94	156.55		31	38.8	374.6
8		40	59.49	156.49		25	24.2	383.0
9		43	35.98	156.40		19	1.2	391.1
10		46	12.38	156.33		12	30.1	399.4
11		48	48.71	156.24	18	5	50.7	+407.5
12	20	51	24.95		−17	59	3.2	

2 月 22 日

12	20	51	24.95	156.15	−17	59	3.2	+415.8
13		54	1.10	156.05		52	7.4	423.7
14		56	37.15	155.95		45	3.7	431.7
15	20	59	13.10	155.85		37	52.0	439.7
16	21	1	48.95	155.73		30	32.3	447.7
17		4	24.68	155.61		23	4.6	455.4
18	21	7	0.29	155.49	−17	15	29.2	+463.2
19		9	35.78	155.37	17	7	46.0	470.8
20		12	11.15	155.23	16	59	55.2	478.5
21		14	46.38	155.09		51	56.7	486.0
22		17	21.47	154.95		43	50.7	493.6
23		19	56.42	154.81		35	37.1	501.0

2 月 23 日

0	21	22	31.23	154.66	−16	27	16.1	+508.4
1		25	5.89	154.50		18	47.7	515.6
2		27	40.39	154.35		10	12.1	522.8
3		30	14.74	154.19	16	1	29.3	530.0
4		32	48.93	154.02	15	52	39.3	537.0
5		35	22.95	153.86		43	42.3	544.0
6	21	37	56.81	153.69		34	38.3	+550.8
7		40	30.50	153.50		25	27.5	557.6
8		43	4.00	153.33		16	9.9	564.4
9		45	37.33	153.14	15	6	45.5	571.0
10		48	10.47	152.96	14	57	14.5	577.6
11		50	43.43	152.77		47	36.9	583.9
12	21	53	16.20	152.59	−14	37	53.0	+590.4
13		55	48.79	152.38		28	2.6	596.6
14	21	58	21.17	152.19		18	6.0	602.9
15	22	0	53.36	151.99	14	8	3.1	608.9
16		3	25.35	151.80	13	57	54.2	614.9
17		5	57.15	151.59		47	39.3	620.8
18	22	8	28.74	151.38	−13	37	18.5	+626.6
19		11	0.12	151.18		26	51.9	632.4
20		13	31.30	150.98		16	19.5	638.0
21		16	2.28	150.75	13	5	41.5	643.5
22		18	33.03	150.55	12	54	58.0	648.9
23		21	3.58	150.33		44	9.1	654.3

2 月 24 日

0	22	23	33.91	150.12	−12	33	14.8	+659.5
1		26	4.03	149.90		22	15.3	664.6
2		28	33.93	149.68		11	10.7	669.6
3		31	3.61	149.46	12	0	1.1	674.6
4		33	33.07	149.25	11	48	46.5	679.4
5		36	2.32	149.02		37	27.1	684.1
6	22	38	31.34	148.80	−11	26	3.0	+688.7
7		41	0.14	148.57		14	34.3	693.2
8		43	28.71	148.36	11	3	1.1	697.6
9		45	57.07	148.13	10	51	23.5	702.0
10		48	25.20	147.91		39	41.5	706.3
11		50	53.11	147.69		27	55.2	710.2
12	22	53	20.80	147.46	−10	16	5.0	+714.3
13		55	48.26	147.24		10	4	10.7	718.1
14	22	58	15.50	147.01		9	52	12.6	722.0
15	23	0	42.51	146.78			40	10.6	725.5
16		3	9.29	146.56			28	5.1	729.2
17		5	35.85	146.34			15	55.9	732.6
18	23	8	2.19	146.12	− 9	3	43.3	+736.0
19		10	28.31	145.89	8	51	27.3	739.1
20		12	54.20	145.68		39	8.2	742.4
21		15	19.88	145.45		26	45.8	745.4
22		17	45.33	145.23		14	20.4	748.4
23		20	10.56	145.01	8	1	52.0	+751.1
24	23	22	35.57		− 7	49	20.9	

世界時	赤経				赤緯			
	2月25日							
h	h	m	s	s	°	′	″	″
0	23	22	35.57	144.79	− 7	49	20.9	+753.9
1		25	0.36	144.57		36	47.0	756.4
2		27	24.93	144.36		24	10.6	759.0
3		29	49.29	144.13	7	11	31.6	761.4
4		32	13.42	143.93	6	58	50.2	763.7
5		34	37.35	143.70		46	6.5	765.8
6	23	37	1.05	143.50	− 6	33	20.7	+768.0
7		39	24.55	143.28		20	32.7	770.0
8		41	47.83	143.08	6	7	42.7	771.8
9		44	10.91	142.87	5	54	50.9	773.6
10		46	33.78	142.66		41	57.3	775.3
11		48	56.44	142.45		29	2.0	776.8
12	23	51	18.89	142.25	− 5	16	5.2	+778.3
13		53	41.14	142.05	5	3	6.9	779.6
14		56	3.19	141.85	4	50	7.3	780.9
15	23	58	25.04	141.65		37	6.4	782.1
16	0	0	46.69	141.45		24	4.3	783.1
17		3	8.14	141.25	4	11	1.2	784.1
18	0	5	29.39	141.07	− 3	57	57.1	+784.9
19		7	50.46	140.87		44	52.2	785.6
20		10	11.33	140.68		31	46.6	786.4
21		12	32.01	140.50		18	40.2	786.9
22		14	52.51	140.31	3	5	33.3	787.3
23		17	12.82	140.12	2	52	26.0	787.7
	2月26日							
0	0	19	32.94	139.95	− 2	39	18.3	+788.0
1		21	52.89	139.77		26	10.3	788.1
2		24	12.66	139.59	2	13	2.2	788.3
3		26	32.25	139.41	1	59	53.9	788.2
4		28	51.66	139.24		46	45.7	788.1
5		31	10.90	139.07		33	37.6	787.8
6	0	33	29.97	138.91	− 1.	20	29.8	+787.6
7		35	48.88	138.74	1	7	22.2	787.2
8		38	7.62	138.58	0	54	15.0	786.8
9		40	26.20	138.41		41	8.2	786.1
10		42	44.61	138.26		28	2.1	785.5
11		45	2.87	138.10		14	56.6	784.6
12	0	47	20.97	137.96	− 0	1	52.0	+783.9
13		49	38.93	137.79	+ 0	11	11.9	782.9
14		51	56.72	137.65		24	14.8	782.0
15		54	14.37	137.50		37	16.8	780.7
16		56	31.87	137.36	0	50	17.5	779.6
17	0	58	49.23	137.21	1	3	17.1	778.3
18	1	1	6.44	137.08	+ 1	16	15.4	+776.9
19		3	23.52	136.94		29	12.3	775.5
20		5	40.46	136.81		42	7.8	774.0
21		7	57.27	136.67	1	55	1.8	772.3
22		10	13.94	136.55	2	7	54.1	770.7
23		12	30.49	136.42		20	44.8	768.9
	2月27日							
0	1	14	46.91	136.30	+ 2	33	33.7	+767.1
1		17	3.21	136.17		46	20.8	765.1
2		19	19.38	136.06	2	59	5.9	763.1
3		21	35.44	135.93	3	11	49.0	761.1
4		23	51.37	135.83		24	30.1	758.9
5		26	7.20	135.70		37	9.0	756.7
6	1	28	22.90	135.60	+ 3	49	45.7	+754.4
7		30	38.50	135.49	4	2	20.1	752.0
8		32	53.99	135.39		14	52.1	749.6
9		35	9.38	135.28		27	21.7	746.9
10		37	24.66	135.19		39	48.6	744.4
11		39	39.85	135.08	4	52	13.0	+741.7
12	1	41	54.93		+ 5	4	34.7	

世界時	赤経				赤緯			
	2月27日							
h	h	m	s	s	°	′	″	″
12	1	41	54.93	135.00	+ 5	4	34.7	+739.0
13		44	9.93	134.89		16	53.7	736.2
14		46	24.82	134.82		29	9.9	733.4
15		48	39.64	134.71		41	23.3	730.3
16		50	54.35	134.63	5	53	33.6	727.3
17		53	8.98	134.54	6	5	40.9	724.3
18	1	55	23.52	134.47	+ 6	17	45.2	+721.1
19		57	37.99	134.38		29	46.3	717.9
20	1	59	52.37	134.31		41	44.2	714.7
21	2	2	6.68	134.22	6	53	38.9	711.3
22		4	20.90	134.17	7	5	30.2	707.9
23		6	35.07	134.08		17	18.1	704.5
	2月28日							
0	2	8	49.15	134.02	+ 7	29	2.6	+701.0
1		11	3.17	133.95		40	43.6	697.4
2		13	17.12	133.89	7	52	21.0	693.8
3		15	31.01	133.82	8	3	54.8	690.1
4		17	44.83	133.77		15	24.9	686.4
5		19	58.60	133.70		26	51.3	682.5
6	2	22	12.30	133.65	+ 8	38	13.8	+678.7
7		24	25.95	133.59	8	49	32.5	674.7
8		26	39.54	133.54	9	0	47.2	670.8
9		28	53.08	133.48		11	58.0	666.8
10		31	6.56	133.44		23	4.8	662.8
11		33	20.00	133.39		34	7.6	658.5
12	2	35	33.39	133.34	+ 9	45	6.1	+654.5
13		37	46.73	133.30	9	56	0.6	650.2
14		40	0.03	133.26	10	6	50.8	646.0
15		42	13.29	133.22		17	36.8	641.5
16		44	26.51	133.18		28	18.3	637.2
17		46	39.69	133.14		38	55.5	632.8
18	2	48	52.83	133.11	+10	49	28.3	+628.4
19		51	5.94	133.06	10	59	56.7	623.7
20		53	19.00	133.04	11	10	20.4	619.3
21		55	32.04	133.00		20	39.7	614.6
22		57	45.04	132.97		30	54.3	610.0
23	2	59	58.01	132.94		41	4.3	605.3
	2月29日							
0	3	2	10.95	132.92	+11	51	9.6	+600.6
1		4	23.87	132.89	12	1	10.2	595.8
2		6	36.76	132.86		11	6.0	591.0
3		8	49.62	132.84		20	57.0	586.1
4	11		2.46	132.82		30	43.1	581.3
5		13	15.28	132.79		40	24.4	576.3
6	3	15	28.07	132.77	+12	50	0.7	+571.3
7		17	40.84	132.75	12	59	32.0	566.2
8		19	53.59	132.74	13	8	58.2	561.2
9		22	6.33	132.71		18	19.4	556.2
10		24	19.04	132.71		27	35.6	551.1
11		26	31.75	132.68		36	46.7	545.8
12	3	28	44.43	132.67	+13	45	52.5	+540.7
13		30	57.10	132.65	13	54	53.2	535.4
14		33	9.75	132.65	14	3	48.6	530.1
15		35	22.40	132.62		12	38.7	524.9
16		37	35.02	132.62		21	23.6	519.6
17		39	47.64	132.60		30	3.2	514.2
18	3	42	0.24	132.60	+14	38	37.4	+508.8
19		44	12.84	132.58		47	6.2	503.3
20		46	25.42	132.58	14	55	29.5	497.9
21		48	38.00	132.56	15	3	47.4	492.5
22		50	50.56	132.56		11	59.9	487.0
23		53	3.12	132.54		20	6.9	+481.3
24	3	55	15.66		+15	28	8.2	

世界時	赤経				赤緯			
	3月1日							
h	h	m	s	s	°	′	″	″
0	3	55	15.66	132.53	+15	28	8.2	+475.9
1		57	28.19	132.53		36	4.1	470.2
2	3	59	40.72	132.52		43	54.3	464.6
3	4	1	53.24	132.52		51	38.9	459.0
4		4	5.76	132.50	15	59	17.9	453.4
5		6	18.26	132.50	16	6	51.3	447.5
6	4	8	30.76	132.49	+16	14	18.8	+441.9
7		10	43.25	132.48		21	40.7	436.1
8		12	55.73	132.47		28	56.8	430.4
9		15	8.20	132.47		36	7.2	424.5
10		17	20.67	132.47		43	11.7	418.7
11		19	33.13	132.46		50	10.4	412.9
12	4	21	45.58	132.45				
13		23	58.02	132.44	+16	57	3.3	+407.0
14		26	10.45	132.43	17	3	50.3	401.2
15		28	22.88	132.43		10	31.5	395.4
16		30	35.30	132.42		17	6.9	389.3
17		32	47.71	132.41		23	36.2	383.5
18	4	35	0.10	132.39	+17	29	59.7	377.4
19		37	12.49	132.39		36	17.1	+371.5
20		39	24.87	132.38		42	28.6	365.5
21		41	37.25	132.38		48	34.1	359.5
22		43	49.60	132.35	17	54	33.6	353.4
23		46	1.95	132.32	18	0	27.0	347.4
						6	14.4	341.4
	3月2日							
0	4	48	14.27	132.33	+18	11	55.8	+335.3
1		50	26.60	132.30		17	31.1	329.2
2		52	38.90	132.30		23	0.3	323.1
3		54	51.20	132.27		28	23.4	317.1
4		57	3.47	132.26		33	40.5	311.0
5	4	59	15.73	132.24		38	51.5	304.8
6	5	1	27.97	132.22	+18	43	56.3	+298.7
7		3	40.19	132.20		48	55.0	292.4
8		5	52.39	132.19		53	47.4	286.4
9		8	4.58	132.16	18	58	33.8	280.1
10		10	16.74	132.14	19	3	13.9	274.0
11		12	28.88	132.12		7	47.9	267.8
12	5	14	41.00	132.09	+19	12	15.7	+261.6
13		16	53.09	132.07		16	37.3	255.3
14		19	5.16	132.04		20	52.6	249.2
15		21	17.20	132.02		25	1.8	242.9
16		23	29.22	132.00		29	4.7	236.7
17		25	41.22	131.95		33	1.4	230.5
18	5	27	53.17	131.93	+19	36	51.9	+224.2
19		30	5.10	131.89		40	36.1	218.0
20		32	16.99	131.87		44	14.1	211.7
21		34	28.86	131.82		47	45.8	205.5
22		36	40.68	131.79		51	11.3	199.2
23		38	52.47	131.75		54	30.5	193.0
	3月3日							
0	5	41	4.22	131.72	+19	57	43.5	
1		43	15.94	131.67	20	0	50.2	+186.7
2		45	27.61	131.63		3	50.6	180.4
3		47	39.24	131.59		6	44.8	174.2
4		49	50.83	131.55		9	32.7	167.9
5		52	2.38	131.50		12	14.3	161.6
6	5	54	13.88	131.45	+20	14	49.7	155.4
7		56	25.33	131.39		17	18.8	+149.1
8	5	58	36.72	131.36		19	41.7	142.9
9	6	0	48.08	131.29		21	58.3	136.6
10		2	59.37	131.25		24	8.7	130.4
11		5	10.62	131.19		26	12.8	124.1
12	6	7	21.81		+20	28	10.6	+117.8

世界時	赤経				赤緯			
	3月3日							
h	h	m	s	s	°	′	″	″
12	6	7	21.81	131.14	+20	28	10.6	+111.6
13		9	32.95	131.07		30	2.2	105.3
14		11	44.02	131.02		31	47.5	99.1
15		13	55.04	130.95		33	26.6	92.8
16		16	5.99	130.89		34	59.4	86.6
17		18	16.88	130.83		36	26.0	80.4
18	6	20	27.71	130.76	+20	37	46.4	+ 74.2
19		22	38.47	130.70		39	0.6	67.9
20		24	49.17	130.63		40	8.5	61.8
21		26	59.80	130.55		41	10.3	55.6
22		29	10.35	130.48		42	5.9	49.4
23		31	20.83	130.40		42	55.3	43.1
	3月4日							
0	6	33	31.23	130.33	+20	43	38.4	+ 37.0
1		35	41.56	130.25		44	15.4	30.8
2		37	51.81	130.18		44	46.2	24.7
3		40	1.99	130.09		45	10.9	18.5
4		42	12.08	130.01		45	29.4	12.5
5		44	22.09	129.93		45	41.9	6.2
6	6	46	32.02	129.84	+20	45	48.1	+ 0.2
7		48	41.86	129.75		45	48.3	− 6.0
8		50	51.61	129.67		45	42.3	12.1
9		53	1.28	129.57		45	30.2	18.0
10		55	10.85	129.49		45	12.2	24.2
11		57	20.34	129.38		44	48.0	30.2
12	6	59	29.72	129.30	+20	44	17.8	− 36.3
13	7	1	39.02	129.19		43	41.5	42.2
14		3	48.21	129.10		42	59.3	48.3
15		5	57.31	128.99		42	11.0	54.2
16		8	6.30	128.90		41	16.8	60.2
17		10	15.20	128.79		40	16.6	66.2
18	7	12	23.99	128.69	+20	39	10.4	− 72.1
19		14	32.68	128.58		37	58.3	78.0
20		16	41.26	128.47		36	40.3	84.0
21		18	49.73	128.37		35	16.3	89.8
22		20	58.10	128.26		33	46.5	95.7
23		23	6.36	128.14		32	10.8	101.4
	3月5日							
0	7	25	14.50	128.04	+20	30	29.4	−107.4
1		27	22.54	127.91		28	42.0	113.2
2		29	30.45	127.80		26	48.8	119.0
3		31	38.25	127.68		24	49.8	124.7
4		33	45.93	127.57		22	45.1	130.5
5		35	53.50	127.44		20	34.6	136.2
6	7	38	0.94	127.33	+20	18	18.4	−141.9
7		40	8.27	127.20		15	56.5	147.5
8		42	15.47	127.08		13	29.0	153.3
9		44	22.55	126.96		10	55.7	158.9
10		46	29.51	126.83		8	16.8	164.6
11		48	36.34	126.70		5	32.2	170.1
12	7	50	43.04	126.58	+20	2	42.1	−175.7
13		52	49.62	126.45	19	59	46.4	181.3
14		54	56.07	126.32		56	45.1	186.8
15		57	2.39	126.18		53	38.3	192.3
16	7	59	8.57	126.06		50	26.0	197.8
17	8	1	14.63	125.91		47	8.2	203.2
18	8	3	20.54	125.79	+19	43	45.0	−208.7
19		5	26.33	125.64		40	16.3	214.1
20		7	31.97	125.52		36	42.2	219.5
21		9	37.49	125.37		33	2.7	224.8
22		11	42.86	125.25		29	17.9	230.1
23		13	48.11	125.10		25	27.8	235.5
24	8	15	53.21		+19	21	32.3	

3月6日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	8	15	53.21	124.97	+19	21	32.3	−240.8
1		17	58.18	124.82		17	31.5	245.9
2		20	3.00	124.69		13	25.6	251.2
3		22	7.69	124.54		9	14.4	256.4
4		24	12.23	124.41		4	58.0	261.6
5		26	16.64	124.26	19	0	36.4	266.7
6	8	28	20.90	124.12	+18	56	9.7	−271.9
7		30	25.02	123.97		51	37.8	276.8
8		32	28.99	123.83		47	1.0	282.0
9		34	32.82	123.69		42	19.0	286.9
10		36	36.51	123.54		37	32.1	292.0
11		38	40.05	123.40		32	40.1	296.9
12	8	40	43.45	123.25	+18	27	43.2	−301.8
13		42	46.70	123.11		22	41.4	306.8
14		44	49.81	122.96		17	34.6	311.7
15		46	52.77	122.82		12	22.9	316.5
16		48	55.59	122.67		7	6.4	321.3
17		50	58.26	122.52	18	1	45.1	326.0
18	8	53	0.78	122.37	+17	56	19.1	−330.8
19		55	3.15	122.23		50	48.3	335.6
20		57	5.38	122.08		45	12.7	340.3
21	8	59	7.46	121.93		39	32.4	344.9
22	9	1	9.39	121.79		33	47.5	349.5
23		3	11.18	121.64		27	58.0	354.1

3月7日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	9	5	12.82	121.49	+17	22	3.9	−358.7
1		7	14.31	121.35		16	5.2	363.3
2		9	15.66	121.20		10	1.9	367.8
3		11	16.86	121.06	17	3	54.1	372.1
4		13	17.92	120.91	16	57	42.0	376.7
5		15	18.83	120.76		51	25.3	381.0
6	9	17	19.59	120.62	+16	45	4.3	−385.4
7		19	20.21	120.47		38	38.9	389.7
8		21	20.68	120.33		32	9.2	394.1
9		23	21.01	120.18		25	35.1	398.2
10		25	21.19	120.04		18	56.9	402.6
11		27	21.23	119.89		12	14.3	406.7
12	9	29	21.12	119.75	+16	5	27.6	−410.9
13		31	20.87	119.61	15	58	36.7	415.0
14		33	20.48	119.47		51	41.7	419.2
15		35	19.95	119.32		44	42.5	423.1
16		37	19.27	119.19		37	39.4	427.3
17		39	18.46	119.04		30	32.1	431.2
18	9	41	17.50	118.91	+15	23	20.9	−435.2
19		43	16.41	118.76		16	5.7	439.1
20		45	15.17	118.63		8	46.6	443.1
21		47	13.80	118.49	15	1	23.5	446.8
22		49	12.29	118.36	14	53	56.7	450.7
23		51	10.65	118.21		46	26.0	454.4

3月8日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	9	53	8.86	118.09	+14	38	51.6	−458.2
1		55	6.95	117.94		31	13.4	461.9
2		57	4.89	117.82		23	31.5	465.7
3	9	59	2.71	117.68		15	45.8	469.2
4	10	1	0.39	117.55		7	56.6	472.9
5		2	57.94	117.41	14	0	3.7	476.4
6	10	4	55.35	117.29	+13	52	7.3	−480.0
7		6	52.64	117.17		44	7.3	483.5
8		8	49.81	117.04		36	3.8	487.0
9		10	46.85	116.91		27	56.8	490.3
10		12	43.76	116.79		19	46.5	493.8
11		14	40.55	116.66		11	32.7	−497.1
12	10	16	37.21		+13	3	15.6	

3月8日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
12	10	16	37.21	116.54	+13	3	15.6	−500.5
13		18	33.75	116.42	12	54	55.1	503.7
14		20	30.17	116.31		46	31.4	507.0
15		22	26.48	116.18		38	4.4	510.1
16		24	22.66	116.08		29	34.3	513.4
17		26	18.74	115.95		21	0.9	516.5
18	10	28	14.69	115.84	+12	12	24.4	−519.7
19		30	10.53	115.72	12	3	44.7	522.6
20		32	6.25	115.63	11	55	2.1	525.7
21		34	1.88	115.50		46	16.4	528.6
22		35	57.38	115.39		37	27.8	531.6
23		37	52.77	115.29		28	36.2	534.6

3月9日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	10	39	48.06	115.19	+11	19	41.6	−537.5
1		41	43.25	115.08		10	44.1	540.2
2		43	38.33	114.98	11	1	43.9	543.1
3		45	33.31	114.88	10	52	40.8	545.8
4		47	28.19	114.78		43	35.0	548.6
5		49	22.97	114.67		34	26.4	551.2
6	10	51	17.64	114.59	+10	25	15.2	−553.9
7		53	12.23	114.49		16	1.3	556.5
8		55	6.72	114.41	10	6	44.8	559.1
9		57	1.13	114.30	9	57	25.7	561.7
10	10	58	55.43	114.22		48	4.0	564.2
11	11	0	49.65	114.14		38	39.8	566.6
12	11	2	43.79	114.05	+ 9	29	13.2	−569.1
13		4	37.84	113.97		19	44.1	571.4
14		6	31.81	113.89		10	12.7	573.8
15		8	25.70	113.81	9	0	38.9	576.1
16		10	19.51	113.74	8	51	2.8	578.5
17		12	13.25	113.65		41	24.3	580.6
18	11	14	6.90	113.59	+ 8	31	43.7	−582.8
19		16	0.49	113.51		22	0.9	585.0
20		17	54.00	113.44		12	15.9	587.1
21		19	47.44	113.37	8	2	28.8	589.3
22		21	40.81	113.31	7	52	39.5	591.3
23		23	34.12	113.25		42	48.2	593.3

3月10日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	11	25	27.37	113.19	+ 7	32	54.9	−595.3
1		27	20.56	113.13		22	59.6	597.2
2		29	13.69	113.07		13	2.4	599.2
3		31	6.76	113.01	7	3	3.2	600.9
4		32	59.77	112.97	6	53	2.3	602.8
5		34	52.74	112.90		42	59.5	604.5
6	11	36	45.64	112.86	+ 6	32	55.0	−606.3
7		38	38.50	112.82		22	48.7	608.0
8		40	31.32	112.77		12	40.7	609.7
9		42	24.09	112.73	6	2	31.0	611.3
10		44	16.82	112.70	5	52	19.7	612.9
11		46	9.52	112.65		42	6.8	614.5
12	11	48	2.17	112.63	+ 5	31	52.3	−616.0
13		49	54.80	112.58		21	36.3	617.4
14		51	47.38	112.56		11	18.9	618.9
15		53	39.94	112.53	5	1	0.0	620.3
16		55	32.47	112.50	4	50	39.7	621.6
17		57	24.97	112.48		40	18.1	623.0
18	11	59	17.45	112.47	+ 4	29	55.1	−624.3
19	12	1	9.92	112.44		19	30.8	625.4
20		3	2.36	112.43	4	9	5.4	626.7
21		4	54.79	112.41	3	58	38.7	627.8
22		6	47.20	112.40		48	10.9	629.0
23		8	39.60	112.40		37	41.9	−630.1
24	12	10	32.00		+ 3	27	11.8	

3月11日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	12	10	32.00	112.39	+ 3	27	11.8	−631.2
1		12	24.39	112.38		16	40.6	632.1
2		14	16.77	112.39	3	6	8.5	633.1
3		16	9.16	112.38	2	55	35.4	634.0
4		18	1.54	112.39		45	1.4	634.9
5		19	53.93	112.38		34	26.5	635.7
6	12	21	46.31	112.40	+ 2	23	50.8	−636.6
7		23	38.71	112.42		13	14.2	637.3
8		25	31.13	112.42	2	2	36.9	638.0
9		27	23.55	112.44	1	51	58.9	638.8
10		29	15.99	112.46		41	20.1	639.5
11		31	8.45	112.48		30	40.6	640.0
12	12	33	0.93	112.51	+ 1	20	0.6	−640.6
13		34	53.44	112.53	1	9	20.0	641.1
14		36	45.97	112.56	0	58	38.9	641.7
15		38	38.53	112.59		47	57.2	642.0
16		40	31.12	112.63		37	15.2	642.5
17		42	23.75	112.66		26	32.7	642.8
18	12	44	16.41	112.71	+ 0	15	49.9	−643.3
19		46	9.12	112.75	+ 0	5	6.6	643.4
20		48	1.87	112.79	− 0	5	36.8	643.7
21		49	54.66	112.83		16	20.5	643.9
22		51	47.49	112.89		27	4.4	644.0
23		53	40.38	112.94		37	48.4	644.2

3月12日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	12	55	33.32	113.00	− 0	48	32.6	−644.3
1		57	26.32	113.05	0	59	16.9	644.3
2	12	59	19.37	113.12	1	10	1.2	644.4
3	13	1	12.49	113.17		20	45.6	644.3
4		3	5.66	113.25		31	29.9	644.3
5		4	58.91	113.32		42	14.2	644.0
6	13	6	52.23	113.39	− 1	52	58.2	−644.0
7		8	45.62	113.46	2	3	42.2	643.7
8		10	39.08	113.55		14	25.9	643.5
9		12	32.63	113.62		25	9.4	643.1
10		14	26.25	113.71		35	52.5	642.9
11		16	19.96	113.78		46	35.4	642.4
12	13	18	13.74	113.88	− 2	57	17.8	−642.1
13		20	7.62	113.97	3	7	59.9	641.6
14		22	1.59	114.06		18	41.5	641.2
15		23	55.65	114.16		29	22.7	640.5
16		25	49.81	114.27		40	3.2	640.0
17		27	44.08	114.36	3	50	43.2	639.4
18	13	29	38.44	114.48	− 4	1	22.6	−638.7
19		31	32.92	114.57		12	1.3	637.9
20		33	27.49	114.68		22	39.2	637.3
21		35	22.17	114.80		33	16.5	636.4
22		37	16.97	114.92		43	52.9	635.6
23		39	11.89	115.03	4	54	23.5	634.6

3月13日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	13	41	6.92	115.16	− 5	5	3.1	−633.8
1		43	2.03	115.28		15	36.9	632.7
2		44	57.36	115.41		26	9.6	631.7
3		46	52.77	115.54		36	41.3	630.7
4		48	48.31	115.67		47	12.0	629.6
5		50	43.98	115.81	5	57	41.6	628.4
6	13	52	39.79	115.95	− 6	8	10.0	−627.2
7		54	35.74	116.09		18	37.2	626.0
8		56	31.83	116.24		29	3.2	624.7
9	13	58	28.07	116.37		39	27.9	623.3
10	14	0	24.44	116.52	6	49	51.2	622.0
11		2	20.96	116.68	7	0	13.2	−620.5
12	14	4	17.64		− 7	10	33.7	

3月13日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
12	14	4	17.64	116.83	− 7	10	33.7	−619.1
13		6	14.47	116.99		20	52.8	617.4
14		8	11.46	117.16		31	10.2	616.0
15		10	8.62	117.31		41	26.2	614.4
16		12	5.93	117.49	7	51	40.6	612.8
17		14	3.42	117.64	8	1	53.4	610.9
18	14	16	1.06	117.82	− 8	12	4.3	−609.3
19		17	58.88	118.00		22	13.6	607.5
20		19	56.88	118.17		32	21.1	605.7
21		21	55.05	118.35		42	26.8	603.7
22		23	53.40	118.54	8	52	30.5	601.8
23		25	51.94	118.71	9	2	32.3	599.7

3月14日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	14	27	50.65	118.90	− 9	12	32.0	−597.8
1		29	49.55	119.10		22	29.8	595.6
2		31	48.65	119.29		32	25.4	593.6
3		33	47.94	119.49		42	19.0	591.4
4		35	47.43	119.68	9	52	10.4	589.1
5		37	47.11	119.88	10	1	59.5	586.9
6	14	39	46.99	120.09	−10	11	46.4	−584.6
7		41	47.08	120.29		21	31.0	582.1
8		43	47.37	120.49		31	13.1	579.7
9		45	47.86	120.71		40	52.8	577.3
10		47	48.57	120.92	10	50	30.1	574.8
11		49	49.49	121.14	11	0	4.9	572.1
12	14	51	50.63	121.36	−11	9	37.0	−569.5
13		53	51.99	121.57		19	6.5	566.9
14		55	53.56	121.80		28	33.4	564.1
15		57	55.36	122.01		37	57.5	561.3
16	14	59	57.37	122.25		47	18.8	558.5
17	15	1	59.62	122.48	11	56	37.3	555.6
18	15	4	2.10	122.71	−12	5	52.9	−552.7
19		6	4.81	122.94		15	5.6	549.6
20		8	7.75	123.19		24	15.2	546.6
21		10	10.94	123.42		33	21.8	543.5
22		12	14.36	123.67		42	25.3	540.4
23		14	18.03	123.99	12	51	25.7	537.2

3月15日

h	世界時 赤経 h	m	s	s	赤緯 °	′	″	″
0	15	16	21.93	124.15	−13	0	22.9	−534.0
1		18	26.03	124.39		9	16.9	530.6
2		20	30.47	124.64		18	7.5	527.3
3		22	35.11	124.90		26	54.8	523.9
4		24	40.01	125.15		35	38.7	520.5
5		26	45.16	125.41		44	19.2	516.9
6	15	28	50.57	125.66	−13	52	56.1	−513.3
7		30	56.23	125.92	14	1	29.4	509.7
8		33	2.15	126.19		9	59.1	506.1
9		35	8.34	126.44		18	25.2	502.3
10		37	14.78	126.72		26	47.5	498.5
11		39	21.50	126.97		35	6.0	494.6
12	15	41	28.47	127.25	−14	43	20.6	−490.8
13		43	35.72	127.50		51	31.4	486.7
14		45	43.22	127.78	14	59	38.1	482.8
15		47	51.00	128.06	15	7	40.9	478.7
16		49	59.06	128.33		15	39.6	474.6
17		52	7.39	128.60		23	34.2	470.4
18	15	54	15.99	128.89	−15	31	24.6	−466.2
19		56	24.88	129.16		39	10.8	461.8
20	15	58	34.04	129.44		46	52.6	457.5
21	16	0	43.43	129.71	15	54	30.1	453.1
22		2	53.19	130.01	16	2	3.2	448.7
23		5	3.20	130.28		9	31.9	−444.0
24	16	7	13.48		−16	16	55.9	

世界時	赤経				赤緯			
	3 月 16 日							
h	h	m	s	s	°	′	″	″
0	16	7	13.48	130.57	−16	16	55.9	−439.6
1		9	24.05	130.85		24	15.5	434.9
2		11	34.90	131.14		31	30.4	430.3
3		13	46.04	131.42		38	40.7	425.4
4		15	57.46	131.72		45	46.1	420.7
5		18	9.18	131.99		52	46.8	415.8
6	16	20	21.17	132.30	−16	59	42.6	−410.9
7		22	33.47	132.57	17	6	33.5	405.9
8		24	46.04	132.86		13	19.4	400.8
9		26	58.90	133.16		20	0.2	395.8
10		29	12.06	133.45		26	36.0	390.7
11		31	25.51	133.74		33	6.7	385.4
12	16	33	39.25	134.03	−17	39	32.1	−380.2
13		35	53.28	134.33		45	52.3	374.8
14		38	7.61	134.61		52	7.1	369.5
15		40	22.22	134.91	17	58	16.6	364.0
16		42	37.13	135.20	18	4	20.6	358.6
17		44	52.33	135.49		10	19.2	352.9
18	16	47	7.82	135.78	−18	16	12.1	−347.3
19		49	23.60	136.07		21	59.4	341.7
20		51	39.67	136.36		27	41.1	336.0
21		53	56.03	136.65		33	17.1	330.2
22		56	12.68	136.94		38	47.3	324.4
23	16	58	29.62	137.24		44	11.7	318.4
	3 月 17 日							
0	17	0	46.86	137.53	−18	49	30.1	−312.5
1		3	4.39	137.80		54	42.6	306.5
2		5	22.19	138.11	18	59	49.1	300.5
3		7	40.30	138.38	19	4	49.6	294.3
4		9	58.68	138.67		9	43.9	288.2
5		12	17.35	138.95		14	32.1	282.0
6	17	14	36.30	139.24	−19	19	14.1	−275.7
7		16	55.54	139.52		23	49.8	269.2
8		19	15.06	139.80		28	19.0	262.9
9		21	34.86	140.07		32	41.9	256.5
10		23	54.93	140.36		36	58.4	250.0
11		26	15.29	140.63		41	8.4	243.4
12	17	28	35.92	140.90	−19	45	11.8	−236.8
13		30	56.82	141.18		49	8.6	230.2
14		33	18.00	141.45		52	58.8	223.5
15		35	39.45	141.73	19	56	42.3	216.7
16		38	1.18	142.00	20	0	19.0	209.9
17		40	23.18	142.25		3	48.9	203.0
18	17	42	45.43	142.52	−20	7	11.9	−196.1
19		45	7.95	142.77		10	28.0	189.1
20		47	30.72	143.04		13	37.1	182.1
21		49	53.76	143.29		16	39.2	175.0
22		52	17.05	143.54		19	34.2	168.0
23		54	40.59	143.80		22	22.2	160.7
	3 月 18 日							
0	17	57	4.39	144.05	−20	25	2.9	−153.6
1	17	59	28.44	144.29		27	36.5	146.3
2	18	1	52.73	144.54		30	2.8	139.1
3		4	17.27	144.77		32	21.9	131.6
4		6	42.04	145.01		34	33.5	124.3
5		9	7.05	145.24		36	37.8	116.9
6	18	11	32.29	145.48	−20	38	34.7	−109.4
7		13	57.77	145.70		40	24.1	101.8
8		16	23.47	145.93		42	5.9	94.4
9		18	49.40	146.14		43	40.3	86.7
10		21	15.54	146.36		45	7.0	79.0
11		23	41.90	146.58		46	26.0	− 71.4
12	18	26	8.48		−20	47	37.4	

世界時	赤経				赤緯			
	3 月 18 日							
h	h	m	s	s	°	′	″	″
12	18	26	8.48	146.79	−20	47	37.4	− 63.7
13		28	35.27	146.99		48	41.1	55.9
14		31	2.26	147.19		49	37.0	48.2
15		33	29.45	147.39		50	25.2	40.3
16		35	56.84	147.59		51	5.5	32.5
17		38	24.43	147.78		51	38.0	24.6
18	18	40	52.21	147.96	−20	52	2.6	− 16.7
19		43	20.17	148.14		52	19.3	8.7
20		45	48.31	148.33		52	28.0	− 0.7
21		48	16.64	148.50		52	28.7	+ 7.2
22		50	45.14	148.68		52	21.5	15.4
23		53	13.82	148.83		52	6.1	23.3
	3 月 19 日							
0	18	55	42.65	149.00	−20	51	42.8	+ 31.4
1	18	58	11.65	149.16		51	11.4	39.6
2	19	0	40.81	149.32		50	31.8	47.7
3		3	10.13	149.45		49	44.1	55.9
4		5	39.58	149.60		48	48.2	64.1
5		8	9.18	149.74		47	44.1	72.2
6	19	10	38.92	149.88	−20	46	31.9	+ 80.5
7		13	8.80	150.01		45	11.4	88.6
8		15	38.81	150.13		43	42.8	97.0
9		18	8.94	150.25		42	5.8	105.1
10		20	39.19	150.37		40	20.7	113.5
11		23	9.56	150.48		38	27.2	121.7
12	19	25	40.04	150.59	−20	36	25.5	+130.0
13		28	10.63	150.68		34	15.5	138.4
14		30	41.31	150.79		31	57.1	146.7
15		33	12.10	150.88		29	30.4	155.0
16		35	42.98	150.97		26	55.4	163.3
17		38	13.95	151.05		24	12.1	171.6
18	19	40	45.00	151.12	−20	21	20.5	+180.0
19		43	16.12	151.20		18	20.5	188.4
20		45	47.32	151.27		15	12.1	196.6
21		48	18.59	151.33		11	55.5	205.0
22		50	49.92	151.39		8	30.5	213.3
23		53	21.31	151.44		4	57.2	221.6
	3 月 20 日							
0	19	55	52.75	151.50	−20	1	15.6	
1	19	58	24.25	151.53	19	57	25.7	+229.9
2	20	0	55.78	151.57		53	27.5	238.2
3		3	27.35	151.61		49	20.9	246.6
4		5	58.96	151.64		45	6.1	254.8
5		8	30.60	151.65		40	42.9	263.2
6	20	11	2.25	151.68	−19	36	11.6	+271.3
7		13	33.93	151.70		31	32.0	279.6
8		16	5.63	151.71		26	44.2	287.8
9		18	37.34	151.71		21	48.1	296.1
10		21	9.05	151.72		16	43.9	304.2
11		23	40.77	151.71		11	31.5	312.4
12	20	26	12.48	151.71	−19	6	11.0	320.5
13		28	44.19	151.68	19	0	42.4	+328.6
14		31	15.87	151.68	18	55	5.7	336.7
15		33	47.55	151.65		49	20.9	344.8
16		36	19.20	151.63		43	28.0	352.9
17		38	50.83	151.61		37	27.2	360.8
18	20	41	22.44	151.57	−18	31	18.4	368.8
19		43	54.01	151.53		25	1.7	+376.7
20		46	25.54	151.49		18	37.0	384.7
21		48	57.03	151.45		12	4.5	392.5
22		51	28.48	151.40	18	5	24.3	400.2
23		53	59.88	151.34	17	58	36.2	408.1
24	20	56	31.22		−17	51	40.4	+415.8

世界時	赤経				赤緯			
	3 月 21 日							
h	h	m	s	s	°	′	″	″
0	20	56	31.22	151.29	−17	51	40.4	+423.6
1	20	59	2.51	151.22		44	36.8	431.1
2	21	1	33.73	151.16		37	25.7	438.8
3		4	4.89	151.09		30	6.9	446.3
4		6	35.98	151.03		22	40.6	453.9
5		9	7.01	150.94		15	6.7	461.3
6	21	11	37.95	150.86	−17	7	25.4	+468.7
7		14	8.81	150.78	16	59	36.7	476.1
8		16	39.59	150.70		51	40.6	483.4
9		19	10.29	150.61		43	37.2	490.6
10		21	40.90	150.53		35	26.6	497.8
11		24	11.43	150.42		27	8.8	505.0
12	21	26	41.85	150.33	−16	18	43.8	+512.1
13		29	12.18	150.22		10	11.7	519.0
14		31	42.40	150.13	16	1	32.7	526.1
15		34	12.53	150.02	15	52	46.6	532.8
16		36	42.55	149.92		43	53.8	539.7
17		39	12.47	149.79		34	54.1	546.4
18	21	41	42.26	149.69	−15	25	47.7	+553.2
19		44	11.95	149.56		16	34.5	559.7
20		46	41.51	149.45	15	7	14.8	566.3
21		49	10.96	149.33	14	57	48.5	572.7
22		51	40.29	149.21		48	15.8	579.1
23		54	9.50	149.08		38	36.7	585.5
	3 月 22 日							
0	21	56	38.58	148.96	−14	28	51.2	+591.8
1	21	59	7.54	148.83		18	59.4	597.9
2	22	1	36.37	148.70	14	9	1.5	604.1
3		4	5.07	148.56	13	58	57.4	610.0
4		6	33.63	148.44		48	47.4	616.1
5		9	2.07	148.30		38	31.3	621.8
6	22	11	30.37	148.17	−13	28	9.5	+627.7
7		13	58.54	148.02		17	41.8	633.3
8		16	26.56	147.89	13	7	8.5	638.9
9		18	54.45	147.74	12	56	29.6	644.5
10		21	22.19	147.61		45	45.1	650.0
11		23	49.80	147.47		34	55.1	655.3
12	22	26	17.27	147.32	−12	23	59.8	+660.6
13		28	44.59	147.18		12	59.2	665.8
14		31	11.77	147.04	12	1	53.4	670.9
15		33	38.81	146.89	11	50	42.5	675.9
16		36	5.70	146.75		39	26.6	680.9
17		38	32.45	146.60		28	5.7	685.6
18	22	40	59.05	146.45	−11	16	40.1	+690.5
19		43	25.50	146.31	11	5	9.6	695.0
20		45	51.81	146.16	10	53	34.6	699.7
21		48	17.97	146.02		41	54.9	704.0
22		50	43.99	145.86		30	10.9	708.5
23		53	9.85	145.72		18	22.4	712.6
	3 月 23 日							
0	22	55	35.57	145.57	−10	6	29.8	+716.8
1	22	58	1.14	145.42	9	54	33.0	721.0
2	23	0	26.56	145.28		42	32.0	725.0
3		2	51.84	145.13		30	27.0	728.9
4		5	16.97	144.98		18	18.1	732.6
5		7	41.95	344.83	9	6	5.5	736.4
6	23	10	6.78	144.69	− 8	53	49.1	+740.0
7		12	31.47	144.54		41	29.1	743.5
8		14	56.01	144.40		29	5.6	747.0
9		17	20.41	144.26		16	38.6	750.1
10		19	44.67	144.11	8	4	8.5	753.3
11		22	8.78	143.97	7	51	35.2	+756.5
12	23	24	32.75		− 7	38	58.7	

世界時	赤経				赤緯			
	3 月 23 日							
h	h	m	s	s	°	′	″	″
12	23	24	32.75	143.83	− 7	38	58.7	
13		26	56.58	143.68		26	19.2	+759.5
14		29	20.26	143.55		13	36.8	762.4
15		31	43.81	143.40	7	0	51.7	765.1
16		34	7.21	143.27	6	48	3.7	768.0
17		36	30.48	143.12		35	13.1	770.6
18	23	38	53.60	142.99	− 6	22	20.2	772.9
19		41	16.59	142.85		6	9	24.8	+775.4
20		43	39.44	142.73	5	56	27.2	777.6
21		46	2.17	142.58		43	27.4	779.8
22		48	24.75	142.46		30	25.4	782.0
23		50	47.21	142.32		17	21.4	784.0
	3 月 24 日							785.8
0	23	53	9.53	142.19	− 5	4	15.6	
1		55	31.72	142.07	4	51	7.9	+787.7
2	23	57	53.79	141.94		37	58.6	789.3
3	0	0	15.73	141.82		24	47.7	790.9
4		2	37.55	141.69	4	11	35.4	792.3
5		4	59.24	141.57	3	58	21.6	793.8
6	0	7	20.81	141.46	− 3	45	6.6	795.0
7		9	42.27	141.33		31	50.3	+796.3
8		12	3.60	141.22		18	33.1	797.2
9		14	24.82	141.09	3	5	14.8	798.3
10		16	45.91	140.99	2	51	55.7	799.1
11		19	6.90	140.86		38	35.7	800.0
12	0	21	27.76	140.76	− 2	25	15.2	800.5
13		23	48.52	140.65	2	11	54.0	+801.2
14		26	9.17	140.54	1	58	32.4	801.6
15		28	29.71	140.44		45	10.4	802.0
16		30	50.15	140.33		31	48.2	802.2
17		33	10.48	140.23		18	25.7	802.5
18	0	35	30.71	140.14	− 1	5	3.2	802.5
19		37	50.85	140.03	0	51	40.6	+802.6
20		40	10.88	139.94		38	18.3	802.3
21		42	30.82	139.83		24	56.1	802.2
22		44	50.65	139.75	− 0	11	34.3	801.8
23		47	10.40	139.65	+ 0	1	47.2	801.5
	3 月 25 日							800.8
0	0	49	30.05	139.57	+ 0	15	8.0	
1		51	49.62	139.48		28	28.3	+800.3
2		54	9.10	139.39		41	47.8	799.5
3		56	28.49	139.31	0	55	6.5	798.7
4	0	58	47.80	139.22	1	8	24.4	797.9
5	1	1	7.02	139.14		21	41.3	796.9
6	1	3	26.16	139.07	+ 1	34	57.1	795.8
7		5	45.23	138.99	1	48	11.7	+794.6
8		8	4.22	138.92	2	1	25.1	793.4
9		10	23.14	138.83		14	37.1	792.0
10		12	41.97	138.77		27	47.6	790.5
11		15	0.74	138.70		40	56.6	789.0
12	1	17	19.44	138.63	+ 2	54	4.0	787.4
13		19	38.07	138.57	3	7	9.7	+785.7
14		21	56.64	138.50		20	13.5	783.8
15		24	15.14	138.44		33	15.5	782.0
16		26	33.58	138.38		46	15.4	779.9
17		28	51.96	138.31	3	59	13.3	777.9
18	1	31	10.27	138.27	+ 4	12	9.0	775.7
19		33	28.54	138.20		25	2.5	+773.5
20		35	46.74	138.16		37	53.6	771.1
21		38	4.90	138.10	4	50	42.4	768.8
22		40	23.00	138.06	5	3	28.6	766.2
23		42	41.06	137.99		16	12.2	763.6
24	1	44	59.05		+ 5	28	53.2	+761.0

3月26日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
h 0	1	44	59.05	137.95	+ 5	28	53.2	+758.2
1		47	17.00	137.91		41	31.4	755.4
2		49	34.91	137.87	5	54	6.8	752.5
3		51	52.78	137.82	6	6	39.3	749.5
4		54	10.60	137.78		19	8.8	746.5
5		56	28.38	137.74		31	35.3	743.2
6	1	58	46.12	137.71	+ 6	43	58.5	+740.1
7	2	1	3.83	137.66	6	56	18.6	736.7
8		3	21.49	137.64	7	8	35.3	733.4
9		5	39.13	137.59		20	48.7	729.9
10		7	56.72	137.57		32	58.6	726.5
11		10	14.29	137.52		45	5.1	722.8
12	2	12	31.81	137.50	+ 7	57	7.9	+719.2
13		14	49.31	137.48	8	9	7.1	715.4
14		17	6.79	137.45		21	2.5	711.6
15		19	24.24	137.42		32	54.1	707.8
16		21	41.66	137.39		44	41.9	703.8
17		23	59.05	137.37	8	56	25.7	699.8
18	2	26	16.42	137.35	+ 9	8	5.5	+695.8
19		28	33.77	137.33		19	41.3	691.5
20		30	51.10	137.30		31	12.8	687.4
21		33	8.40	137.28		42	40.2	683.1
22		35	25.68	137.27	9	54	3.3	678.7
23		37	42.95	137.25	10	5	22.0	674.3

3月27日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	2	40	0.20	137.23	+10	16	36.3	+670.0
1		42	17.43	137.21		27	46.3	665.3
2		44	34.64	137.21		38	51.6	660.8
3		46	51.85	137.18	10	49	52.4	656.1
4		49	9.03	137.17	11	0	48.5	651.5
5		51	26.20	137.15		11	40.0	646.6
6	2	53	43.35	137.15	+11	22	26.6	+641.8
7		56	0.50	137.12		33	8.4	637.0
8	2	58	17.62	137.12		43	45.4	632.1
9	3	0	34.74	137.10	11	54	17.5	627.1
10		2	51.84	137.10	12	4	44.6	622.1
11		5	8.94	137.08		15	6.7	616.8
12	3	7	26.02	137.08	+12	25	23.5	+611.8
13		9	43.10	137.06		35	35.3	606.6
14		12	0.16	137.05		45	41.9	601.4
15		14	17.21	137.05	12	55	43.3	596.1
16		16	34.26	137.04	13	5	39.4	590.8
17		18	51.30	137.03		15	30.2	585.3
18	3	21	8.33	137.03	+13	25	15.5	+579.9
19		23	25.36	137.00		34	55.4	574.4
20		25	42.36	137.00		44	29.8	569.0
21		27	59.36	136.99	13	53	58.8	563.3
22		30	16.35	136.98	14	3	22.1	557.8
23		32	33.33	136.98		12	39.9	552.1

3月28日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
h 12	4	2	13.19	136.83	+16	4	43.2	+475.4
13		4	30.02	136.81		12	38.6	469.2
14		6	46.83	136.80		20	27.8	463.0
15		9	3.63	136.77		28	10.8	456.8
16		11	20.40	136.77		35	47.6	450.6
17		13	37.17	136.74		43	18.2	444.4
18	4	15	53.91	136.72	+16	50	42.6	+438.1
19		18	10.63	136.70	16	58	0.7	431.8
20		20	27.33	136.68	17	5	12.5	425.5
21		22	44.01	136.66		12	18.0	419.1
22		25	0.67	136.64		19	17.1	412.8
23		27	17.31	136.61		26	9.9	406.3

3月29日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	4	29	33.92	136.59	+17	32	56.2	+399.9
1		31	50.51	136.56		39	36.1	393.5
2		34	7.07	136.53		46	9.6	387.0
3		36	23.60	136.50		52	36.6	380.6
4		38	40.10	136.48	17	58	57.2	374.2
5		40	56.58	136.43	18	5	11.4	367.5
6	4	43	13.01	136.41	+18	11	18.9	+361.1
7		45	29.42	136.37		17	20.0	354.4
8		47	45.79	136.34		23	14.4	348.0
9		50	2.13	136.29		29	2.4	341.4
10		52	18.42	136.26		34	43.8	334.9
11		54	34.68	136.22		40	18.7	328.2
12	4	56	50.90	136.18	+18	45	46.9	+321.7
13	4	59	7.08	136.13		51	8.6	315.0
14	5	1	23.21	136.09	18	56	23.6	308.4
15		3	39.30	136.05	19	1	32.0	301.8
16		5	55.35	136.01		6	33.8	295.2
17		8	11.36	135.94		11	29.0	288.5
18	5	10	27.30	135.90	+19	16	17.5	+281.9
19		12	43.20	135.84		20	59.4	275.2
20		14	59.04	135.79		25	34.6	268.5
21		17	14.83	135.73		30	3.1	261.9
22		19	30.56	135.68		34	25.0	255.2
23		21	46.24	135.61		38	40.2	248.5

3月30日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	5	24	1.85	135.56	+19	42	48.7	+241.8
1		26	17.41	135.49		46	50.5	235.1
2		28	32.90	135.42		50	45.6	228.4
3		30	48.32	135.36		54	34.0	221.8
4		33	3.68	135.30	19	58	15.8	215.1
5		35	18.98	135.22	20	1	50.9	208.4
6	5	37	34.20	135.15	+20	5	19.3	+201.7
7		39	49.35	135.07		8	41.0	195.1
8		42	4.42	135.00		11	56.1	188.4
9		44	19.42	134.92		15	4.5	181.7
10		46	34.34	134.84		18	6.2	175.0
11		48	49.18	134.76		21	1.2	168.4
12	5	51	3.94	134.68	+20	23	49.6	+161.7
13		53	18.62	134.59		26	31.3	155.0
14		55	33.21	134.50		29	6.3	148.4
15	5	57	47.71	134.42		31	34.7	141.7
16	6	0	2.13	134.33		33	56.4	135.1
17		2	16.46	134.23		36	11.5	128.5
18	6	4	30.69	134.14	+20	38	20.0	+121.9
19		6	44.83	134.04		40	21.9	115.3
20		8	58.87	133.95		42	17.2	108.7
21		11	12.82	133.84		44	5.9	102.0
22		13	26.66	133.74		45	47.9	95.5
23		15	40.40	133.64		47	23.4	+ 88.9
24	6	17	54.04		+20	48	52.3	

3月31日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
h 0	6	17	54.04	133.53	+20	48	52.3	+ 82.4
1		20	7.57	133.43		50	14.7	75.7
2		22	21.00	133.33		51	30.4	69.4
3		24	34.33	133.20		52	39.8	62.7
4		26	47.53	133.10		53	42.5	56.2
5		29	0.63	132.98		54	38.7	49.8
6	6	31	13.61	132.87	+20	55	28.5	+ 43.3
7		33	26.48	132.74		56	11.8	36.9
8		35	39.22	132.63		56	48.7	30.4
9		37	51.85	132.51		57	19.1	23.9
10		40	4.36	132.38		57	43.0	17.5
11		42	16.74	132.26		58	0.5	11.1
12	6	44	29.00	132.13	+20	58	11.6	+ 4.8
13		46	41.13	132.01		58	16.4	− 1.7
14		48	53.14	131.89		58	14.7	7.9
15		51	5.03	131.74		58	6.8	14.3
16		53	16.77	131.61		57	52.5	20.7
17		55	28.38	131.47		57	31.8	26.8
18	6	57	39.85	131.35	+20	57	5.0	− 33.1
19	6	59	51.20	131.20		56	31.9	39.3
20	7	2	2.40	131.07		55	52.6	45.6
21		4	13.47	130.93		55	7.0	51.8
22		6	24.40	130.79		54	15.2	58.0
23		8	35.19	130.64		53	17.2	64.1

4月1日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	7	10	45.83	130.50	+20	52	13.1	− 70.2
1		12	56.33	130.35		51	2.9	76.4
2		15	6.68	130.21		49	46.5	82.6
3		17	16.89	130.06		48	23.9	88.5
4		19	26.95	129.92		46	55.4	94.6
5		21	36.87	129.76		45	20.8	100.5
6	7	23	46.63	129.62	+20	43	40.3	−106.6
7		25	56.25	129.45		41	53.7	112.6
8		28	5.70	129.31		40	1.1	118.5
9		30	15.01	129.15		38	2.6	124.5
10		32	24.16	129.00		35	58.1	130.4
11		34	33.16	128.83		33	47.7	136.1
12	7	36	41.99	128.69	+20	31	31.6	−142.1
13		38	50.68	128.52		29	9.5	147.8
14		40	59.20	128.36		26	41.7	153.6
15		43	7.56	128.20		24	8.1	159.4
16		45	15.76	128.05		21	28.7	165.2
17		47	23.81	127.88		18	43.5	170.8
18	7	49	31.69	127.71	+20	15	52.7	−176.6
19		51	39.40	127.55		12	56.1	182.1
20		53	46.95	127.39		9	54.0	187.8
21		55	54.34	127.23		6	46.2	193.4
22	7	58	1.57	127.06		3	32.8	199.0
23	8	0	8.63	126.89	20	0	13.8	204.6

4月2日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
h 0	8	2	15.52	126.73	+19	56	49.2	−210.1
1		4	22.25	126.56		53	19.1	215.4
2		6	28.81	126.39		49	43.7	221.0
3		8	35.20	126.23		46	2.7	226.4
4		10	41.43	126.06		42	16.3	231.8
5		12	47.49	125.89		38	24.5	237.2
6	8	14	53.38	125.71	+19	34	27.3	−242.6
7		16	59.09	125.55		30	24.7	247.7
8		19	4.64	125.38		26	17.0	253.1
9		21	10.02	125.21		22	3.9	258.3
10		23	15.23	125.04		17	45.6	263.5
11		25	20.27	124.88		13	22.1	−268.7
12	8	27	25.15		+19	8	53.4	

4月2日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
h 12	8	27	25.15	124.70	+19	8	53.4	−273.9
13		29	29.85	124.53		4	19.5	279.0
14		31	34.38	124.36		59	40.5	284.1
15		33	38.74	124.20		54	56.4	289.1
16		35	42.94	124.03		50	7.3	294.2
17		37	46.97	123.85		45	13.1	299.2
18	8	39	50.82	123.69	+18	40	13.9	−304.1
19		41	54.51	123.51		35	9.8	309.0
20		43	58.02	123.34		30	0.8	314.0
21		46	1.36	123.18		24	46.8	318.8
22		48	4.54	123.01		19	28.0	323.7
23		50	7.55	122.84		14	4.3	328.4

4月3日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	8	52	10.39	122.67	+18	8	35.9	−333.2
1		54	13.06	122.51		3	2.7	338.0
2		56	15.57	122.34	17	57	24.7	342.7
3	8	58	17.91	122.17		51	42.0	347.3
4	9	0	20.08	122.00		45	54.7	352.0
5		2	22.08	121.84		40	2.7	356.6
6	9	4	23.92	121.67	+17	34	6.1	−361.2
7		6	25.59	121.51		28	4.9	365.7
8		8	27.10	121.35		21	59.2	370.3
9		10	28.45	121.18		15	48.9	374.6
10		12	29.63	121.02		9	34.3	379.2
11		14	30.65	120.86	17	3	15.1	383.6
12	9	16	31.51	120.70	+16	56	51.5	−388.0
13		18	32.21	120.54		50	23.5	392.3
14		20	32.75	120.38		43	51.2	396.7
15		22	33.13	120.22		37	14.5	400.8
16		24	33.35	120.07		30	33.7	405.1
17		26	33.42	119.91		23	48.6	409.3
18	9	28	33.33	119.76	+16	16	59.3	−413.5
19		30	33.09	119.59		10	5.8	417.7
20		32	32.68	119.45	16	3	8.1	421.8
21		34	32.13	119.29	15	56	6.3	425.8
22		36	31.42	119.14		49	0.5	429.9
23		38	30.56	119.00		41	50.6	433.9

4月4日

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
0	9	40	29.56	118.84	+15	34	36.7	−438.0
1		42	28.40	118.70		27	18.7	441.7
2		44	27.10	118.55		19	57.0	445.8
3		46	25.65	118.40		12	31.2	449.5
4		48	24.05	118.26	15	5	1.7	453.5
5		50	22.31	118.12	14	57	28.2	457.2
6	9	52	20.43	117.98	+14	49	51.0	−461.0
7		54	18.41	117.84		42	10.0	464.7
8		56	16.25	117.70		34	25.3	468.5
9	9	58	13.95	117.56		26	36.8	472.0
10	10	0	11.51	117.43		18	44.8	475.8
11		2	8.94	117.29		10	49.0	479.4
12	10	4	6.23	117.17	+14	2	49.6	−482.9
13		6	3.40	117.02	13	54	46.7	486.4
14		8	0.42	116.90		46	40.3	490.0
15		9	57.32	116.77		38	30.3	493.3
16		11	54.09	116.65		30	17.0	496.9
17		13	50.74	116.52		22	0.1	500.2
18	10	15	47.26	116.40	+13	13	39.9	−503.6
19		17	43.66	116.27	13	5	16.3	506.9
20		19	39.93	116.16	12	56	49.4	510.3
21		21	36.09	116.04		48	19.1	513.4
22		23	32.13	115.93		39	45.7	516.7
23		25	28.06	115.81		31	9.0	−519.8
24	10	27	23.87		+12	22	29.2	

世界時	赤経				赤緯			
	4月5日							
h	h	m	s	s	°	′	″	″
0	10	27	23.87	115.70	+12	22	29.2	−523.0
1		29	19.57	115.58		13	46.2	526.1
2		31	15.15	115.47	12	5	0.1	529.3
3		33	10.62	115.37	11	56	10.8	532.2
4		35	5.99	115.26		47	18.6	535.3
5		37	1.25	115.16		38	23.3	538.3
6	10	38	56.41	115.06	+11	29	25.0	−541.2
7		40	51.47	114.95		20	23.8	544.1
8		42	46.42	114.86		11	19.7	547.0
9		44	41.28	114.76	11	2	12.7	549.8
10		46	36.04	114.68	10	53	2.9	552.6
11		48	30.72	114.57		43	50.3	555.3
12	10	50	25.29	114.48	+10	34	35.0	−558.0
13		52	19.77	114.40		25	17.0	560.8
14		54	14.17	114.32		15	56.2	563.5
15		56	8.49	114.23	10	6	32.7	566.0
16		58	2.72	114.15	9	57	6.7	568.7
17	10	59	56.87	114.06		47	38.0	571.2
18	11	1	50.93	114.00	+ 9	38	6.8	−573.8
19		3	44.93	113.92		28	33.0	576.1
20		5	38.85	113.85		18	56.9	578.7
21		7	32.70	113.76	9	9	18.2	581.0
22		9	26.46	113.70	8	59	37.2	583.4
23		11	20.16	113.64		49	53.8	585.7
	4月6日							
0	11	13	13.80	113.58	+ 8	40	8.1	−588.1
1		15	7.38	113.51		30	20.0	590.2
2		17	0.89	113.45		20	29.8	592.6
3		18	54.34	113.39		10	37.2	594.7
4		20	47.73	113.34	8	0	42.5	596.9
5		22	41.07	113.27	7	50	45.6	599.0
6	11	24	34.34	113.23	+ 7	40	46.6	−601.1
7		26	27.57	113.19		30	45.5	603.0
8		28	20.76	113.14		20	42.5	605.1
9		30	13.90	113.09		10	37.4	607.1
10		32	6.99	113.05	7	0	30.3	609.0
11		34	0.04	113.01	6	50	21.3	610.9
12	11	35	53.05	112.98	+ 6	40	10.4	−612.8
13		37	46.03	112.94		29	57.6	614.6
14		39	38.97	112.91		19	43.0	616.3
15		41	31.88	112.87	6	9	26.7	618.1
16		43	24.75	112.85	5	59	8.6	619.9
17		45	17.60	112.83		48	48.7	621.4
18	11	47	10.43	112.80	+ 5	38	27.3	−623.1
19		49	3.23	112.78		28	4.2	624.7
20		50	56.01	112.77		17	39.5	626.2
21		52	48.78	112.75	5	7	13.3	627.8
22		54	41.53	112.74	4	56	45.5	629.3
23		56	34.27	112.72		46	16.2	630.6
	4月7日							
0	11	58	26.99	112.72	+ 4	35	45.6	−632.1
1	12	0	19.71	112.71		25	13.5	633.4
2		2	12.42	112.71		14	40.1	634.9
3		4	5.13	112.71	4	4	5.2	636.0
4		5	57.84	112.72	3	53	29.2	637.3
5		7	50.56	112.71		42	51.9	638.5
6	12	9	43.27	112.72	+ 3	32	13.4	−639.6
7		11	35.99	112.74		21	33.8	640.8
8		13	28.73	112.75		10	53.0	641.9
9		15	21.48	112.76	3	0	11.1	642.9
10		17	14.24	112.78	2	49	28.2	644.0
11		19	7.02	112.80		38	44.2	−644.9
12	12	20	59.82		+ 2	27	59.3	

世界時	赤経				赤緯			
	4月7日							
h	h	m	s	s	°	′	″	″
12	12	20	59.82	112.82	+ 2	27	59.3	−645.9
13		22	52.64	112.84		17	13.4	646.6
14		24	45.48	112.87	2	6	26.8	647.6
15		26	38.35	112.91	1	55	39.2	648.3
16		28	31.26	112.94		44	50.9	649.2
17		30	24.20	112.97		34	1.7	649.9
18	12	32	17.17	113.01	+ 1	23	11.8	−650.6
19		34	10.18	113.05		12	21.2	651.1
20		36	3.23	113.10	1	1	30.1	651.8
21		37	56.33	113.14	0	50	38.3	652.3
22		39	49.47	113.19		39	46.0	652.9
23		41	42.66	113.24		28	53.1	653.3
	4月8日							
0	12	43	35.90	113.29	+ 0	17	59.8	−653.8
1		45	29.19	113.35	+ 0	7	6.0	654.1
2		47	22.54	113.41	− 0	3	48.1	654.5
3		49	15.95	113.47		14	42.6	654.8
4		51	9.42	113.54		25	37.4	655.1
5		53	2.96	113.60		36	32.5	655.3
6	12	54	56.56	113.67	− 0	47	27.8	−655.4
7		56	50.23	113.75	0	58	23.2	655.6
8	12	58	43.98	113.82	1	9	18.8	655.8
9	13	0	37.80	113.89		20	14.6	655.7
10		2	31.69	113.98		31	10.3	655.7
11		4	25.67	114.05		42	6.0	655.7
12	13	6	19.72	114.15	− 1	53	1.7	−655.7
13		8	13.87	114.22	2	3	57.4	655.4
14		10	8.09	114.32		14	52.8	655.3
15		12	2.41	114.41		25	48.1	655.1
16		13	56.82	114.51		36	43.2	654.9
17		15	51.33	114.61		47	38.1	654.4
18	13	17	45.94	114.71	− 2	58	32.5	−654.2
19		19	40.65	114.81	3	9	26.7	653.8
20		21	35.46	114.93		20	20.5	653.4
21		23	30.39	115.02		31	13.9	652.7
22		25	25.41	115.14		42	6.6	652.3
23		27	20.55	115.25	3	52	58.9	651.7
	4月9日							
0	13	29	15.80	115.37	− 4	3	50.6	−651.1
1		31	11.17	115.49		14	41.7	650.4
2		33	6.66	115.61		25	32.1	649.7
3		35	2.27	115.73		36	21.8	648.9
4		36	58.00	115.87		47	10.7	648.1
5		38	53.87	115.99	4	57	58.8	647.2
6	13	40	49.86	116.12	− 5	8	46.0	−646.4
7		42	45.98	116.26		19	32.4	645.3
8		44	42.24	116.40		30	17.7	644.3
9		46	38.64	116.54		41	2.0	643.3
10		48	35.18	116.68	5	51	45.3	642.2
11		50	31.86	116.82	6	2	27.5	640.9
12	13	52	28.68	116.98	− 6	13	8.4	−639.8
13		54	25.66	117.11		23	48.2	638.6
14		56	22.77	117.27		34	26.8	637.3
15	13	58	20.04	117.42		45	4.1	635.9
16	14	0	17.46	117.58	6	55	40.0	634.5
17		2	15.04	117.74	7	6	14.5	633.0
18	14	4	12.78	117.91	− 7	16	47.5	−631.6
19		6	10.69	118.07		27	19.1	629.9
20		8	8.76	118.24		37	49.0	628.4
21		10	7.00	118.40		48	17.4	626.7
22		12	5.40	118.58	7	58	44.1	625.1
23		14	3.98	118.75	8	9	9.2	−623.2
24	14	16	2.73		− 8	19	32.4	

世界時	赤経				赤緯			
	4月10日							
h	h	m	s	s	°	′	″	″
0	14	16	2.73	118.93	− 8	19	32.4	−621.5
1		18	1.66	119.10		29	53.9	619.6
2		20	0.76	119.29		40	13.5	617.8
3		22	0.05	119.47	8	50	31.3	615.7
4		23	59.52	119.67	9	0	47.0	613.7
5		25	59.19	119.84		11	0.7	611.7
6	14	27	59.03	120.04	− 9	21	12.4	−609.6
7		29	59.07	120.23		31	22.0	607.3
8		31	59.30	120.42		41	29.3	605.1
9		33	59.72	120.62	9	51	34.4	602.9
10		36	0.34	120.82	10	1	37.3	600.6
11		38	1.16	121.01		11	37.9	598.2
12	14	40	2.17	121.22	−10	21	36.1	−595.8
13		42	3.39	121.42		31	31.9	593.2
14		44	4.81	121.63		41	25.1	590.7
15		46	6.44	121.84	10	51	15.8	588.1
16		48	8.28	122.05	11	1	3.9	585.5
17		50	10.33	122.27		10	49.4	582.7
18	14	52	12.60	122.48	−11	20	32.1	−580.0
19		54	15.08	122.70		30	12.1	577.2
20		56	17.78	122.92		39	49.3	574.4
21	14	58	20.70	123.13		49	23.7	571.3
22	15	0	23.83	123.36	11	58	55.0	568.4
23		2	27.19	123.58	12	8	23.4	565.4
	4月11日							
0	15	4	30.77	123.81	−12	17	48.8	−562.3
1		6	34.58	124.03		27	11.1	559.1
2		8	38.61	124.26		36	30.2	555.9
3		10	42.87	124.50		45	46.1	552.7
4		12	47.37	124.73	12	54	58.8	549.4
5		14	52.10	124.97	13	4	8.2	546.0
6	15	16	57.07	125.20	−13	13	14.2	−542.6
7		19	2.27	125.44		22	16.8	539.0
8		21	7.71	125.68		31	15.8	535.5
9		23	13.39	125.91		40	11.3	531.9
10		25	19.30	126.16		49	3.2	528.4
11		27	25.46	126.39	13	57	51.6	524.5
12	15	29	31.85	126.64	−14	6	36.1	−520.8
13		31	38.49	126.88		15	16.9	517.0
14		33	45.37	127.14		23	53.9	513.2
15		35	52.51	127.37		32	27.1	509.2
16		37	59.88	127.63		40	56.3	505.2
17		40	7.51	127.88		49	21.5	501.1
18	15	42	15.39	128.13	−14	57	42.6	−497.1
19		44	23.52	128.38	15	5	59.7	492.8
20		46	31.90	128.63		14	12.5	488.7
21		48	40.53	128.88		22	21.2	484.4
22		50	49.41	129.13		30	25.6	480.1
23		52	58.54	129.39		38	25.7	475.6
	4月12日							
0	15	55	7.93	129.64	−15	46	21.3	−471.3
1		57	17.57	129.90	15	54	12.6	466.7
2	15	59	27.47	130.16	16	1	59.3	462.2
3	16	1	37.63	130.41		9	41.5	457.5
4		3	48.04	130.67		17	19.0	452.9
5		5	58.71	130.93		24	51.9	448.1
6	16	8	9.64	131.19	−16	32	20.0	−443.3
7		10	20.83	131.44		39	43.3	438.5
8		12	32.27	131.70		47	1.8	433.6
9		14	43.97	131.95	16	54	15.4	428.6
10		16	55.92	132.22	17	1	24.0	423.6
11		19	8.14	132.47		8	27.6	−418.6
12	16	21	20.61		−17	15	26.2	

世界時	赤経				赤緯			
	4月12日							
h	h	m	s	s	°	′	″	″
12	16	21	20.61	132.73	−17	15	26.2	−413.5
13		23	33.34	132.99		22	19.7	408.2
14		25	46.33	133.25		29	7.9	403.1
15		27	59.58	133.50		35	51.0	397.6
16		30	13.08	133.77		42	28.6	392.4
17		32	26.85	134.02		49	1.0	386.9
18	16	34	40.87	134.27	−17	55	27.9	−381.6
19		36	55.14	134.53	18	1	49.5	376.0
20		39	9.67	134.79		8	5.5	370.5
21		41	24.46	135.04		14	16.0	364.8
22		43	39.50	135.29		20	20.8	359.2
23		45	54.79	135.55		26	20.0	353.3
	4月13日							
0	16	48	10.34	135.80	−18	32	13.3	−347.6
1		50	26.14	136.05		38	0.9	341.8
2		52	42.19	136.31		43	42.7	335.9
3		54	58.50	136.54		49	18.6	329.9
4		57	15.04	136.80	18	54	48.5	324.0
5	16	59	31.84	137.03	19	0	12.5	317.9
6	17	1	48.87	137.29	−19	5	30.4	−311.8
7		4	6.16	137.52		10	42.2	305.6
8		6	23.68	137.77		15	47.8	299.5
9		8	41.45	138.01		20	47.3	293.2
10		10	59.46	138.25		25	40.5	287.0
11		13	17.71	138.49		30	27.5	280.5
12	17	15	36.20	138.72	−19	35	8.0	−274.2
13		17	54.92	138.96		39	42.2	267.7
14		20	13.88	139.19		44	9.9	261.3
15		22	33.07	139.42		48	31.2	254.6
16		24	52.49	139.65		52	45.8	248.1
17		27	12.14	139.87	19	56	53.9	241.5
18	17	29	32.01	140.10	−20	0	55.4	−234.8
19		31	52.11	140.31		4	50.2	228.0
20		34	12.42	140.53		8	38.2	221.3
21		36	32.95	140.75		12	19.5	214.4
22		38	53.70	140.97		15	53.9	207.6
23		41	14.67	141.16		19	21.5	200.8
	4月14日							
0	17	43	35.83	141.39	−20	22	42.3	−193.8
1		45	57.22	141.58		25	56.1	186.8
2		48	18.80	141.80		29	2.9	179.7
3		50	40.60	141.99		32	2.6	172.7
4		53	2.59	142.19		34	55.3	165.7
5		55	24.78	142.39		37	41.0	158.4
6	17	57	47.17	142.58	−20	40	19.4	−151.3
7	18	0	9.75	142.76		42	50.7	144.0
8		2	32.51	142.95		45	14.7	136.8
9		4	55.46	143.13		47	31.5	129.5
10		7	18.59	143.31		49	41.0	122.2
11		9	41.90	143.49		51	43.2	114.8
12	18	12	5.39	143.67	−20	53	38.0	−107.4
13		14	29.06	143.82		55	25.4	100.0
14		16	52.88	144.00		57	5.4	92.5
15		19	16.88	144.15	20	58	37.9	85.1
16		21	41.03	144.32	21	0	3.0	77.6
17		24	5.35	144.47		1	20.6	69.9
18	18	26	29.82	144.63	−21	2	30.5	− 62.4
19		28	54.45	144.76		3	32.9	54.7
20		31	19.21	144.92		4	27.6	47.2
21		33	44.13	145.05		5	14.8	39.5
22		36	9.18	145.19		5	54.3	31.9
23		38	34.37	145.32		6	26.2	− 24.1
24	18	40	59.69		−21	6	50.3	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
4 月 15 日								
h 0	18	40	59.69	145.46	−21	6	50.3	− 16.5
1		43	25.15	145.57		7	6.8	8.6
2		45	50.72	145.70		7	15.4	− 0.9
3		48	16.42	145.81		7	16.3	+ 6.9
4		50	42.23	145.92		7	9.4	14.8
5		53	8.15	146.04		6	54.6	22.5
6	18	55	34.19	146.15	−21	6	32.1	+ 30.4
7	18	58	0.34	146.24		6	1.7	38.2
8	19	0	26.58	146.34		5	23.5	46.1
9		2	52.92	146.43		4	37.4	53.9
10		5	19.35	146.53		3	43.5	61.8
11		7	45.88	146.60		2	41.7	69.8
12	19	10	12.48	146.69	−21	1	31.9	+ 77.6
13		12	39.17	146.76	21	0	14.3	85.6
14		15	5.93	146.84	20	58	48.7	93.5
15		17	32.77	146.89		57	15.2	101.5
16		19	59.66	146.97		55	33.7	109.4
17		22	26.63	147.03		53	44.3	117.3
18	19	24	53.66	147.08	−20	51	47.0	+ 125.3
19		27	20.74	147.14		49	41.7	133.2
20		29	47.88	147.18		47	28.5	141.2
21		32	15.06	147.22		45	7.3	149.1
22		34	42.28	147.26		42	38.2	157.1
23		37	9.54	147.30		40	1.1	165.0
4 月 16 日								
0	19	39	36.84	147.34	−20	37	16.1	+ 173.0
1		42	4.18	147.35		34	23.1	180.9
2		44	31.53	147.38		31	22.2	188.8
3		46	58.91	147.40		28	13.4	196.8
4		49	26.31	147.41		24	56.6	204.6
5		51	53.72	147.43		21	32.0	212.6
6	19	54	21.15	147.44	−20	17	59.4	+ 220.6
7		56	48.59	147.43		14	18.8	228.3
8	19	59	16.02	147.43		10	30.5	236.2
9	20	1	43.45	147.43		6	34.3	244.0
10		4	10.88	147.43	20	2	30.3	252.0
11		6	38.31	147.41	19	58	18.3	259.7
12	20	9	5.72	147.40	−19	53	58.6	+ 267.6
13		11	33.12	147.38		49	31.0	275.3
14		14	0.50	147.35		44	55.7	283.1
15		16	27.85	147.33		40	12.6	290.8
16		18	55.18	147.31		35	21.8	298.5
17		21	22.49	147.26		30	23.3	306.3
18	20	23	49.75	147.23	−19	25	17.0	+ 314.0
19		26	16.98	147.18		20	3.0	321.5
20		28	44.16	147.15		14	41.5	329.2
21		31	11.31	147.10		9	12.3	336.7
22		33	38.41	147.06	19	3	35.6	344.3
23		36	5.47	147.00	18	57	51.3	351.9
4 月 17 日								
0	20	38	32.47	146.95	−18	51	59.4	+ 359.4
1		40	59.42	146.88		46	0.0	366.8
2		43	26.30	146.82		39	53.2	374.3
3		45	53.12	146.75		33	38.9	381.6
4		48	19.87	146.69		27	17.3	389.0
5		50	46.56	146.62		20	48.3	396.4
6	20	53	13.18	146.55	−18	14	11.9	+ 403.6
7		55	39.73	146.47		7	28.3	410.8
8	20	58	6.20	146.40	18	0	37.5	418.1
9	21	0	32.60	146.31	17	53	39.4	425.3
10		2	58.91	146.23		46	34.1	432.4
11		5	25.14	146.15		39	21.7	439.4
12	21	7	51.29		−17	32	2.3	+ 439.4

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
4 月 17 日								
h 12	21	7	51.29	146.07	−17	32	2.3	+ 446.5
13		10	17.36	145.96		24	35.8	453.5
14		12	43.32	145.88		17	2.3	460.4
15		15	9.20	145.78		9	21.9	467.3
16		17	34.98	145.69	17	1	34.6	474.2
17		20	0.67	145.59	16	53	40.4	480.9
18	21	22	26.26	145.50	−16	45	39.5	+ 487.6
19		24	51.76	145.39		37	31.9	494.4
20		27	17.15	145.29		29	17.5	501.0
21		29	42.44	145.18		20	56.5	507.6
22		32	7.62	145.08		12	28.9	514.2
23		34	32.70	144.97	16	3	54.7	520.6
4 月 18 日								
0	21	36	57.67	144.87	−15	55	14.1	+ 527.0
1		39	22.54	144.75		46	27.1	533.4
2		41	47.29	144.65		37	33.7	539.8
3		44	11.94	144.52		28	33.9	545.9
4		46	36.46	144.42		19	28.0	552.1
5		49	0.88	144.29		10	15.9	558.3
6	21	51	25.17	144.19	−15	0	57.6	+ 564.4
7		53	49.36	144.07	14	51	33.2	570.3
8		56	13.43	143.96		42	2.9	576.3
9	21	58	37.39	143.83		32	26.6	582.1
10	22	1	1.22	143.72		22	44.5	587.9
11		3	24.94	143.60		12	56.6	593.7
12	22	5	48.54	143.48	−14	3	2.9	+ 599.4
13		8	12.02	143.36	13	53	3.5	605.0
14		10	35.38	143.25		42	58.5	610.6
15		12	58.63	143.12		32	47.9	615.9
16		15	21.75	143.00		22	32.0	621.4
17		17	44.75	142.88		12	10.6	626.7
18	22	20	7.63	142.77	−13	1	43.9	+ 632.0
19		22	30.40	142.64	12	51	11.9	637.1
20		24	53.04	142.52		40	34.8	642.3
21		27	15.56	142.40		29	52.5	647.3
22		29	37.96	142.29		19	5.2	652.3
23		32	0.25	142.16	12	8	12.9	657.3
4 月 19 日								
0	22	34	22.41	142.05	−11	57	15.6	+ 662.0
1		36	44.46	141.92		46	13.6	666.8
2		39	6.38	141.81		35	6.8	671.5
3		41	28.19	141.69		23	55.3	676.0
4		43	49.88	141.58		12	39.3	680.7
5		46	11.46	141.45	11	1	18.6	685.0
6	22	48	32.91	141.35	−10	49	53.6	+ 689.4
7		50	54.26	141.22		38	24.2	693.6
8		53	15.48	141.12		26	50.6	697.8
9		55	36.60	140.99		15	12.8	702.0
10	22	57	57.59	140.89	10	3	30.8	706.0
11	23	0	18.48	140.77	9	51	44.8	709.9
12	23	2	39.25	140.66	− 9	39	54.9	+ 713.8
13		4	59.91	140.56		28	1.1	717.6
14		7	20.47	140.45		16	3.5	721.4
15		9	40.92	140.35	9	4	2.1	724.9
16		12	1.27	140.24	8	51	57.2	728.6
17		14	21.51	140.13		39	48.6	731.9
18	23	16	41.64	140.03	− 8	27	36.7	+ 735.4
19		19	1.67	139.93		15	21.3	738.6
20		21	21.60	139.83	8	3	2.7	741.8
21		23	41.43	139.73	7	50	40.9	744.9
22		26	1.16	139.64		38	16.0	748.0
23		28	20.80	139.53		25	48.0	+ 750.9
24	23	30	40.33		− 7	13	17.1	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
4 月 20 日								
h 0	23	30	40.33	139.45	− 7	13	17.1	+ 753.8
1		32	59.78	139.35		7	0	43.3	756.6
2		35	19.13	139.27		6	48	6.7	759.2
3		37	38.40	139.16			35	27.5	761.8
4		39	57.56	139.08			22	45.7	764.4
5		42	16.64	139.00		6	10	1.3	766.7
6	23	44	35.64	138.92	− 5	57	14.6	+ 769.1
7		46	54.56	138.83			44	25.5	771.3
8		49	13.39	138.76			31	34.2	773.5
9		51	32.15	138.67			18	40.7	775.5
10		53	50.82	138.60		5	5	45.2	777.6
11		56	9.42	138.52		4	52	47.6	779.3
12	23	58	27.94	138.46	− 4	39	48.3	+ 781.1
13	0	0	46.40	138.37			26	47.2	782.9
14		3	4.77	138.31			13	44.3	784.5
15		5	23.08	138.24		4	0	39.8	786.0
16		7	41.32	138.18		3	47	33.8	787.4
17		9	59.50	138.11			34	26.4	788.8
18	0	12	17.61	138.06	− 3	21	17.6	+ 790.1
19		14	35.67	137.99		3	8	7.5	791.2
20		16	53.66	137.94		2	54	56.3	792.2
21		19	11.60	137.88			41	44.1	793.2
22		21	29.48	137.84			28	30.9	794.1
23		23	47.32	137.77			15	16.8	794.8
4 月 21 日								
0	0	26	5.09	137.73	− 2	2	2.0	+ 795.6
1		28	22.82	137.68		1	48	46.4	796.1
2		30	40.50	137.64			35	30.3	796.8
3		32	58.14	137.59			22	13.5	797.1
4		35	15.73	137.56		1	8	56.4	797.5
5		37	33.29	137.51		0	55	38.9	797.6
6	0	39	50.80	137.49	− 0	42	21.3	+ 797.9
7		42	8.29	137.44			29	3.4	797.8
8		44	25.73	137.42			15	45.6	797.9
9		46	43.15	137.38	− 0	2	27.7	797.7
10		49	0.53	137.36	+ 0	10	50.0	797.5
11		51	17.89	137.33			24	7.5	797.1
12	0	53	35.22	137.31	+ 0	37	24.6	+ 796.8
13		55	52.53	137.28		0	50	41.4	796.3
14	0	58	9.81	137.27		1	3	57.7	795.7
15	1	0	27.08	137.25			17	13.4	795.0
16		2	44.33	137.24			30	28.4	794.3
17		5	1.57	137.21			43	42.7	793.4
18	1	7	18.78	137.21	+ 1	56	56.1	+ 792.5
19		9	35.99	137.19		2	10	8.6	791.4
20		11	53.18	137.19			23	20.0	790.3
21		14	10.37	137.18			36	30.3	789.1
22		16	27.55	137.18		2	49	39.4	787.8
23		18	44.73	137.17		3	2	47.2	786.4
4 月 22 日								
0	1	21	1.90	137.18	+ 3	15	53.6	+ 784.9
1		23	19.08	137.17			28	58.5	783.3
2		25	36.25	137.18			42	1.8	781.7
3		27	53.43	137.18		3	55	3.5	779.9
4		30	10.61	137.19		4	8	3.4	778.1
5		32	27.80	137.19			21	1.5	776.1
6	1	34	44.99	137.20	+ 4		33	57.6	+ 774.2
7		37	2.19	137.22			46	51.8	772.1
8		39	19.41	137.23		4	59	43.9	769.9
9		41	36.64	137.25		5	12	33.8	767.6
10		43	53.89	137.27			25	21.4	765.3
11		46	11.16	137.28			38	6.7	+ 762.8
12	1	48	28.44		+ 5	50	49.5	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
4 月 22 日								
h 12	1	48	28.44	137.30	+ 5	50	49.5	+ 760.3
13		50	45.74	137.32		6	3	29.8	757.7
14		53	3.06	137.35			16	7.5	755.0
15		55	20.41	137.36			28	42.5	752.2
16		57	37.77	137.40			41	14.7	749.5
17	1	59	55.17	137.41		6	53	44.2	746.4
18	2	2	12.58	137.46	+ 7	6	10.6	+ 743.5
19		4	30.04	137.47			18	34.1	740.2
20		6	47.51	137.50			30	54.3	737.1
21		9	5.01	137.54			43	11.4	733.9
22		11	22.55	137.57		7	55	25.3	730.6
23		13	40.12	137.61		8	7	35.9	727.1
4 月 23 日								
0	2	15	57.73	137.64	+ 8	19	43.0	+ 723.6
1		18	15.37	137.67			31	46.6	720.0
2		20	33.04	137.71			43	46.6	716.5
3		22	50.75	137.75		8	55	43.1	712.6
4		25	8.50	137.79		9	7	35.7	708.8
5		27	26.29	137.82			19	24.5	705.0
6	2	29	44.11	137.87	+ 9	31	9.5	+ 701.0
7		32	1.98	137.91			42	50.5	697.0
8		34	19.89	137.95		9	54	27.5	693.0
9		36	37.84	137.98		10	6	0.5	688.7
10		38	55.82	138.03			17	29.2	684.5
11		41	13.85	138.07			28	53.7	680.1
12	2	43	31.92	138.12	+10	40	13.8	+ 675.8
13		45	50.04	138.15		10	51	29.6	671.4
14		48	8.19	138.21		11	2	41.0	666.8
15		50	26.40	138.24			13	47.8	662.2
16		52	44.64	138.29			24	50.0	657.6
17		55	2.93	138.33			35	47.6	652.7
18	2	57	21.26	138.38	+11	46	40.3	+ 648.0
19	2	59	39.64	138.42		11	57	28.3	643.2
20	3	1	58.06	138.47		12	8	11.5	638.3
21		4	16.53	138.51			18	49.8	633.2
22		6	35.04	138.56			29	23.0	628.3
23		8	53.60	138.59			39	51.3	623.1
4 月 24 日								
0	3	11	12.19	138.65	+12	50	14.4	+ 618.0
1		13	30.84	138.68		13	0	32.4	612.7
2		15	49.52	138.73			10	45.1	607.5
3		18	8.25	138.77			20	52.6	602.0
4		20	27.02	138.82			30	54.6	596.7
5		22	45.84	138.85			40	51.3	591.2
6	3	25	4.69	138.90	+13	50	42.5	+ 585.8
7		27	23.59	138.93		14	0	28.3	580.1
8		29	42.52	138.98			10	8.4	574.5
9		32	1.50	139.01			19	42.9	568.9
10		34	20.51	139.05			29	11.8	563.1
11		36	39.56	139.09			38	34.9	557.3
12	3	38	58.65	139.13	+14	47	52.2	+ 551.5
13		41	17.78	139.16		14	57	3.7	545.6
14		43	36.94	139.19		15	6	9.3	539.7
15		45	56.13	139.23			15	9.0	533.7
16		48	15.36	139.26			24	2.7	527.7
17		50	34.62	139.29			32	50.4	521.6
18	3	52	53.91	139.32	+15	41	32.0	+ 515.6
19		55	13.23	139.34			50	7.6	509.4
20		57	32.57	139.38		15	58	37.0	503.2
21	3	59	51.95	139.39		16	7	0.2	496.9
22	4	2	11.34	139.43			15	17.1	490.7
23		4	30.77	139.44			23	27.8	+ 484.3
24	4	6	50.21		+16	31	32.1	

世界時	赤経				赤緯			
	4月25日							
h	h	m	s	s	°	′	″	″
0	4	6	50.21	139.47	+16	31	32.1	+478.0
1		9	9.68	139.48		39	30.1	471.6
2		11	29.16	139.50		47	21.7	465.1
3		13	48.66	139.50	16	55	6.8	458.7
4		16	8.18	139.52	17	2	45.5	452.3
5		18	27.71	139.53		10	17.8	445.6
				139.54				
6	4	20	47.25	139.56	+17	17	43.4	+439.1
7		23	6.81	139.55		25	2.5	432.5
8		25	26.36	139.57		32	15.0	425.9
9		27	45.93	139.57		39	20.9	419.2
10		30	5.50	139.58		46	20.1	412.6
11		32	25.08	139.57		53	12.7	405.8
12	4	34	44.65	139.57	+17	59	58.5	+399.1
13		37	4.22	139.57	18	6	37.6	392.3
14		39	23.79	139.57		13	9.9	385.6
15		41	43.36	139.54		19	35.5	378.7
16		44	2.90	139.54		25	54.2	371.9
17		46	22.44	139.52		32	6.1	365.0
18	4	48	41.96	139.51	+18	38	11.1	+358.1
19		51	1.47	139.49		44	9.2	351.3
20		53	20.96	139.47		50	0.5	344.4
21		55	40.43	139.44	18	55	44.9	337.4
22	4	57	59.87	139.41	19	1	22.3	330.5
23	5	0	19.28	139.39		6	52.8	323.5
	4月26日							
0	5	2	38.67	139.36	+19	12	16.3	+316.6
1		4	58.03	139.32		17	32.9	309.5
2		7	17.35	139.29		22	42.4	302.5
3		9	36.64	139.25		27	44.9	295.5
4		11	55.89	139.21		32	40.4	288.5
5		14	15.10	139.16		37	28.9	281.4
6	5	16	34.26	139.12	+19	42	10.3	+274.4
7		18	53.38	139.05		46	44.7	267.3
8		21	12.43	139.02		51	12.0	260.3
9		23	31.45	138.95		55	32.3	253.2
10		25	50.40	138.90	19	59	45.5	246.1
11		28	9.30	138.84	20	3	51.6	239.1
12	5	30	28.14	138.77	+20	7	50.7	+232.0
13		32	46.91	138.71		11	42.7	224.9
14		35	5.62	138.64		15	27.6	217.8
15		37	24.26	138.56		19	5.4	210.8
16		39	42.82	138.49		22	36.2	203.7
17		42	1.31	138.41		25	59.9	196.6
18	5	44	19.72	138.33	+20	29	16.5	+189.5
19		46	38.05	138.25		32	26.0	182.5
20		48	56.30	138.16		35	28.5	175.3
21		51	14.46	138.07		38	23.8	168.3
22		53	32.53	137.99		41	12.1	161.2
23		55	50.52	137.88		43	53.3	154.2
	4月27日							
0	5	58	8.40	137.79	+20	46	27.5	+147.2
1	6	0	26.19	137.69		48	54.7	140.1
2		2	43.88	137.59		51	14.8	133.1
3		5	1.47	137.48		53	27.9	126.0
4		7	18.95	137.38		55	33.9	119.0
5		9	36.33	137.25		57	32.9	112.0
6	6	11	53.58	137.15	+20	59	24.9	+105.1
7		14	10.73	137.02	21	1	10.0	98.1
8		16	27.75	136.91		2	48.1	91.2
9		18	44.66	136.79		4	19.3	84.1
10		21	1.45	136.66		5	43.4	77.3
11		23	18.11	136.54		7	0.7	+ 70.3
12	6	25	34.65		+21	8	11.0	

世界時	赤経				赤緯			
	4月27日							
h	h	m	s	s	°	′	″	″
12	6	25	34.65	136.40	+21	8	11.0	+ 63.4
13		27	51.05	136.28		9	14.4	56.5
14		30	7.33	136.14		10	10.9	49.7
15		32	23.47	135.99		11	0.6	42.8
16		34	39.46	135.87		11	43.4	36.0
17		36	55.33	135.72		12	19.4	29.2
18	6	39	11.05	135.57	+21	12	48.6	+ 22.5
19		41	26.62	135.43		13	11.1	15.6
20		43	42.05	135.28		13	26.7	8.9
21		45	57.33	135.12		13	35.6	+ 2.1
22		48	12.45	134.98		13	37.7	− 4.6
23		50	27.43	134.81		13	33.1	11.1
	4月28日							
0	6	52	42.24	134.66	+21	13	22.0	− 17.9
1		54	56.90	134.50		13	4.1	24.5
2		57	11.40	134.33		12	39.6	31.1
3	6	59	25.73	134.17		12	8.5	37.6
4	7	1	39.90	134.00		11	30.9	44.2
5		3	53.90	133.83		10	46.7	50.8
6	7	6	7.73	133.67	+21	9	55.9	− 57.3
7		8	21.40	133.49		8	58.6	63.7
8		10	34.89	133.32		7	54.9	70.2
9		12	48.21	133.14		6	44.7	76.5
10		15	1.35	132.96		5	28.2	83.0
11		17	14.31	132.78		4	5.2	89.4
12	7	19	27.09	132.61	+21	2	35.8	− 95.8
13		21	39.70	132.42	21	1	0.0	101.9
14		23	52.12	132.24	20	59	18.1	108.3
15		26	4.36	132.05		57	29.8	114.4
16		28	16.41	131.86		55	35.4	120.7
17		30	28.27	131.67		53	34.7	126.9
18	7	32	39.94	131.49	+20	51	27.8	− 133.1
19		34	51.43	131.29		49	14.7	139.2
20		37	2.72	131.11		46	55.5	145.3
21		39	13.83	130.90		44	30.2	151.2
22		41	24.73	130.72		41	59.0	157.4
23		43	35.45	130.51		39	21.6	163.3
	4月29日							
0	7	45	45.96	130.32	+20	36	38.3	− 169.3
1		47	56.28	130.12		33	49.0	175.2
2		50	6.40	129.93		30	53.8	181.1
3		52	16.33	129.72		27	52.7	186.9
4		54	26.05	129.52		24	45.8	192.8
5		56	35.57	129.32		21	33.0	198.5
6	7	58	44.89	129.12	+20	18	14.5	− 204.3
7	8	0	54.01	128.91		14	50.2	210.0
8		3	2.92	128.71		11	20.2	215.8
9		5	11.63	128.51		7	44.4	221.3
10		7	20.14	128.30		4	3.1	227.0
11		9	28.44	128.10	20	0	16.1	232.6
12	8	11	36.54	127.89	+19	56	23.5	− 238.1
13		13	44.43	127.69		52	25.4	243.6
14		15	52.12	127.48		48	21.8	249.1
15		17	59.60	127.27		44	12.7	254.5
16		20	6.87	127.07		39	58.2	259.9
17		22	13.94	126.87		35	38.3	265.3
18	8	24	20.81	126.65	+19	31	13.0	− 270.6
19		26	27.46	126.45		26	42.4	275.9
20		28	33.91	126.24		22	6.5	281.2
21		30	40.15	126.04		17	25.3	286.4
22		32	46.19	125.83		12	38.9	291.5
23		34	52.02	125.63		7	47.4	−296.7
24	8	36	57.65		+19	2	50.7	

世界時	赤経				赤緯			
	4月30日							
h	h	m	s	s	°	′	″	″
0	8	36	57.65	125.42	+19	2	50.7	−301.9
1		39	3.07	125.21	18	57	48.8	306.8
2		41	8.28	125.01		52	42.0	311.9
3		43	13.29	124.80		47	30.1	316.9
4		45	18.09	124.60		42	13.2	321.9
5		47	22.69	124.39		36	51.3	326.8
6	8	49	27.08	124.19	+18	31	24.5	−331.7
7		51	31.27	123.99		25	52.8	336.5
8		53	35.26	123.78		20	16.3	341.4
9		55	39.04	123.58		14	34.9	346.1
10		57	42.62	123.39		8	48.8	350.8
11	8	59	46.01	123.18	18	2	58.0	355.6
12	9	1	49.19	122.99	+17	57	2.4	−360.3
13		3	52.18	122.78		51	2.1	364.8
14		5	54.96	122.59		44	57.3	369.5
15		7	57.55	122.39		38	47.8	374.1
16		9	59.94	122.20		32	33.7	378.6
17		12	2.14	121.99		26	15.1	383.0
18	9	14	4.13	121.81	+17	19	52.1	−387.5
19		16	5.94	121.61		13	24.6	391.9
20		18	7.55	121.43		6	52.7	396.3
21		20	8.98	121.23	17	0	16.4	400.7
22		22	10.21	121.04	16	53	35.7	405.0
23		24	11.25	120.86		46	50.7	409.1
	5月1日							
0	9	26	12.11	120.67	+16	40	1.6	−413.4
1		28	12.78	120.48		33	8.2	417.6
2		30	13.26	120.30		26	10.6	421.8
3		32	13.56	120.12		19	8.8	425.9
4		34	13.68	119.94		12	2.9	430.1
5		36	13.62	119.76	16	4	52.8	434.0
6	9	38	13.38	119.59	+15	57	38.8	−438.1
7		40	12.97	119.40		50	20.7	442.0
8		42	12.37	119.23		42	58.7	446.0
9		44	11.60	119.05		35	32.7	449.9
10		46	10.65	118.89		28	2.8	453.8
11		48	9.54	118.71		20	29.0	457.6
12	9	50	8.25	118.54	+15	12	51.4	−461.4
13		52	6.79	118.38	15	5	10.0	465.1
14		54	5.17	118.22	14	57	24.9	468.9
15		56	3.39	118.05		49	36.0	472.6
16		58	1.44	117.90		41	43.4	476.3
17	9	59	59.34	117.73		33	47.1	479.8
18	10	1	57.07	117.58	+14	25	47.3	−483.5
19		3	54.65	117.42		17	43.8	487.0
20		5	52.07	117.28		9	36.8	490.6
21		7	49.35	117.11	14	1	26.2	494.0
22		9	46.46	116.97	13	53	12.2	497.5
23		11	43.43	116.82		44	54.7	500.8
	5月2日							
0	10	13	40.25	116.68	+13	36	33.9	−504.2
1		15	36.93	116.54		28	9.7	507.6
2		17	33.47	116.39		19	42.1	511.0
3		19	29.86	116.25		11	11.1	514.1
4		21	26.11	116.12	13	2	37.0	517.4
5		23	22.23	115.98	12	53	59.6	520.6
6	10	25	18.21	115.86	+12	45	19.0	−523.7
7		27	14.07	115.71		36	35.3	526.9
8		29	9.78	115.59		27	48.4	530.1
9		31	5.37	115.47		18	58.3	533.0
10		33	0.84	115.35		10	5.3	536.2
11		34	56.19	115.22	12	1	9.1	539.1
12	10	36	51.41		+11	52	10.0	−539.1

世界時	赤経				赤緯			
	5月2日							
h	h	m	s	s	°	′	″	″
12	10	36	51.41	115.11	+11	52	10.0	−542.1
13		38	46.52	114.99		43	7.9	545.0
14		40	41.51	114.88		34	2.9	548.0
15		42	36.39	114.76		24	54.9	550.7
16		44	31.15	114.66		15	44.2	553.6
17		46	25.81	114.55	11	6	30.6	556.4
18	10	48	20.36	114.45	+10	57	14.2	−559.1
19		50	14.81	114.34		47	55.1	561.9
20		52	9.15	114.25		38	33.2	564.6
21		54	3.40	114.15		29	8.6	567.2
22		55	57.55	114.06		19	41.4	569.9
23		57	51.61	113.96		10	11.5	572.4
	5月3日							
0	10	59	45.57	113.87	+10	0	39.1	−575.0
1	11	1	39.44	113.79		9	51	4.1	577.5
2		3	33.23	113.71			41	26.6	580.0
3		5	26.94	113.62			31	46.6	582.4
4		7	20.56	113.55			22	4.2	584.9
5		9	14.11	113.47			12	19.3	587.2
6	11	11	7.58	113.41	+	9	2	32.1	−589.6
7		13	0.99	113.32		8	52	42.5	591.9
8		14	54.31	113.26			42	50.6	594.2
9		16	47.57	113.19			32	56.4	596.4
10		18	40.76	113.14			23	0.0	598.7
11		20	33.90	113.07			13	1.3	600.8
12	11	22	26.97	113.02	+	8	3	0.5	−602.9
13		24	19.99	112.96		7	52	57.6	605.1
14		26	12.95	112.91			42	52.5	607.2
15		28	5.86	112.86			32	45.3	609.1
16		29	58.72	112.82			22	36.2	611.2
17		31	51.54	112.77			12	25.0	613.2
18	11	33	44.31	112.74	+	7	2	11.8	−615.2
19		35	37.05	112.70		6	51	56.6	616.9
20		37	29.75	112.66			41	39.7	618.9
21		39	22.41	112.62			31	20.8	620.6
22		41	15.03	112.60			21	0.2	622.5
23		43	7.63	112.57			10	37.7	624.2
	5月4日							
0	11	45	0.20	112.55	+	6	0	13.5	−626.0
1		46	52.75	112.53		5	49	47.5	627.6
2		48	45.28	112.51			39	19.9	629.3
3		50	37.79	112.49			28	50.6	630.9
4		52	30.28	112.48			18	19.7	632.5
5		54	22.76	112.48		5	7	47.2	634.1
6	11	56	15.24	112.47	+	4	57	13.1	−635.6
7	11	58	7.71	112.46			46	37.5	637.0
8	12	0	0.17	112.47			36	0.5	638.5
9		1	52.64	112.46			25	22.0	639.9
10		3	45.10	112.48			14	42.1	641.2
11		5	37.58	112.48		4	4	0.9	642.6
12	12	7	30.06	112.49	+	3	53	18.3	−643.9
13		9	22.55	112.51			42	34.4	645.1
14		11	15.06	112.52			31	49.3	646.3
15		13	7.58	112.54			21	3.0	647.5
16		15	0.12	112.57		3	10	15.5	648.7
17		16	52.69	112.59		2	59	26.8	649.8
18	12	18	45.28	112.62	+	2	48	37.0	−650.8
19		20	37.90	112.65			37	46.2	651.8
20		22	30.55	112.69			26	54.4	652.9
21		24	23.24	112.72			16	1.5	653.8
22		26	15.96	112.77		2	5	7.7	654.8
23		28	8.73	112.81		1	54	12.9	−655.5
24	12	30	1.54		+	1	43	17.4	

世界時	赤経				赤緯			
	5月5日							
h	h	m	s	s	°	′	″	″
0	12	30	1.54	112.86	+ 1	43	17.4	−656.5
1		31	54.40	112.90		32	20.9	657.2
2		33	47.30	112.96		21	23.7	658.0
3		35	40.26	113.01	1	10	25.7	658.7
4		37	33.27	113.07	0	59	27.0	659.4
5		39	26.34	113.13		48	27.6	659.9
6	12	41	19.47	113.21	+ 0	37	27.7	−660.6
7		43	12.68	113.26		26	27.1	661.1
8		45	5.94	113.33		15	26.0	661.7
9		46	59.27	113.41	+ 0	4	24.3	662.1
10		48	52.68	113.49	− 0	6	37.8	662.6
11		50	46.17	113.56		17	40.4	663.0
12	12	52	39.73	113.65	− 0	28	43.4	−663.3
13		54	33.38	113.73		39	46.7	663.6
14		56	27.11	113.82	0	50	50.3	663.9
15	12	58	20.93	113.91	1	1	54.2	664.1
16	13	0	14.84	114.00		12	58.3	664.3
17		2	8.84	114.10		24	2.6	664.4
18	13	4	2.94	114.20	− 1	35	7.0	−664.6
19		5	57.14	114.30		46	11.6	664.5
20		7	51.44	114.41	1	57	16.1	664.6
21		9	45.85	114.52	2	8	20.7	664.5
22		11	40.37	114.63		19	25.2	664.5
23		13	35.00	114.75		30	29.7	664.3
	5月6日							
0	13	15	29.75	114.87	− 2	41	34.0	−664.2
1		17	24.62	114.98	2	52	38.2	664.0
2		19	19.60	115.11	3	3	42.2	663.8
3		21	14.71	115.22		14	46.0	663.3
4		23	9.93	115.36		25	49.3	663.0
5		25	5.29	115.50		36	52.3	662.6
6	13	27	0.79	115.63	− 3	47	54.9	−662.1
7		28	56.42	115.76	3	58	57.0	661.7
8		30	52.18	115.91	4	9	58.7	661.2
9		32	48.09	116.04		20	59.9	660.5
10		34	44.13	116.20		32	0.4	659.9
11		36	40.33	116.35		43	0.3	659.3
12	13	38	36.68	116.50	− 4	53	59.6	−658.5
13		40	33.18	116.65	5	4	58.1	657.7
14		42	29.83	116.81		15	55.8	656.9
15		44	26.64	116.97		26	52.7	656.1
16		46	23.61	117.14		37	48.8	655.1
17		48	20.75	117.29		48	43.9	654.1
18	13	50	18.04	117.47	− 5	59	38.0	−653.0
19		52	15.51	117.64	6	10	31.0	652.0
20		54	13.15	117.82		21	23.0	650.9
21		56	10.97	117.99		32	13.9	649.6
22	13	58	8.96	118.17		43	3.5	648.4
23	14	0	7.13	118.34	6	53	51.9	647.2
	5月7日							
0	14	2	5.47	118.54	− 7	4	39.1	
1		4	4.01	118.72		15	24.9	−645.8
2		6	2.73	118.91		26	9.3	644.4
3		8	1.64	119.11		36	52.3	643.0
4		10	0.75	119.30		47	33.7	641.4
5		12	0.05	119.49	7	58	13.6	639.9
6	14	13	59.54	119.70	− 8	8	51.9	638.3
7		15	59.24	119.89		19	28.6	−636.7
8		17	59.13	120.11		30	3.5	634.9
9		19	59.24	120.30		40	36.7	633.2
10		21	59.54	120.52	8	51	8.0	631.3
11		24	0.06	120.73	9	1	37.5	629.5
12	14	26	0.79		− 9	12	4.9	−627.4

世界時	赤経				赤緯			
	5月7日							
h	h	m	s	s	°	′	″	″
12	14	26	0.79	120.94	− 9	12	4.9	−625.5
13		28	1.73	121.16		22	30.4	623.5
14		30	2.89	121.39		32	53.9	621.4
15		32	4.28	121.60		43	15.3	619.2
16		34	5.88	121.83	9	53	34.5	617.0
17		36	7.71	122.04	10	3	51.5	614.7
18	14	38	9.75	122.28	−10	14	6.2	−612.4
19		40	12.03	122.51		24	18.6	609.9
20		42	14.54	122.74		34	28.5	607.6
21		44	17.28	122.97		44	36.1	604.9
22		46	20.25	123.21	10	54	41.0	602.4
23		48	23.46	123.44	11	4	43.4	599.8
	5月8日							
0	14	50	26.90	123.69	−11	14	43.2	−597.1
1		52	30.59	123.93		24	40.3	594.3
2		54	34.52	124.17		34	34.6	591.6
3		56	38.69	124.41		44	26.2	588.7
4	14	58	43.10	124.67	11	54	14.9	585.8
5	15	0	47.77	124.91	12	4	0.7	582.7
6	15	2	52.68	125.16	−12	13	43.4	−579.8
7		4	57.84	125.41		23	23.2	576.6
8		7	3.25	125.66		32	59.8	573.5
9		9	8.91	125.92		42	33.3	570.2
10		11	14.83	126.18	12	52	3.5	566.9
11		13	21.01	126.44	13	1	30.4	563.5
12	15	15	27.45	126.70	−13	10	53.9	−560.1
13		17	34.15	126.95		20	14.0	556.7
14		19	41.10	127.22		29	30.7	553.1
15		21	48.32	127.48		38	43.8	549.5
16		23	55.80	127.75		47	53.3	545.9
17		26	3.55	128.01	13	56	59.2	542.0
18	15	28	11.56	128.28	−14	6	1.2	−538.3
19		30	19.84	128.53		14	59.5	534.4
20		32	28.37	128.81		23	53.9	530.6
21		34	37.18	129.09		32	44.5	526.5
22		36	46.27	129.36		41	31.0	522.6
23		38	55.63	129.61		50	13.6	518.3
	5月9日							
0	15	41	5.24	129.89	−14	58	51.9	−514.2
1		43	15.13	130.16	15	7	26.1	510.0
2		45	25.29	130.44		15	56.1	505.7
3		47	35.73	130.71		24	21.8	501.3
4		49	46.44	130.98		32	43.1	496.8
5		51	57.42	131.26		40	59.9	492.4
6	15	54	8.68	131.53	−15	49	12.3	−487.9
7		56	20.21	131.81	15	57	20.2	483.2
8	15	58	32.02	132.08	16	5	23.4	478.6
9	16	0	44.10	132.35		13	22.0	473.8
10		2	56.45	132.62		21	15.8	469.0
11		5	9.07	132.90		29	4.8	464.2
12	16	7	21.97	133.17	−16	36	49.0	−459.3
13		9	35.14	133.45		44	28.3	454.2
14		11	48.59	133.72		52	2.5	449.2
15		14	2.31	134.00	16	59	31.7	444.0
16		16	16.31	134.26	17	6	55.7	438.9
17		18	30.57	134.54		14	14.6	433.6
18	16	20	45.11	134.80	−17	21	28.2	−428.4
19		22	59.91	135.08		28	36.6	422.9
20		25	14.99	135.36		35	39.5	417.6
21		27	30.35	135.61		42	37.1	412.0
22		29	45.96	135.89		49	29.1	406.5
23		32	1.85	136.14	17	56	15.6	−400.8
24	16	34	17.99		−18	2	56.4	

世界時	赤経				赤緯			
	5月10日							
h	h	m	s	s	°	′	″	″
0	16	34	17.99	136.42	−18	2	56.4	−395.3
1		36	34.41	136.67		9	31.7	389.4
2		38	51.08	136.95		16	1.1	383.7
3		41	8.03	137.20		22	24.8	377.9
4		43	25.23	137.47		28	42.7	372.0
5		45	42.70	137.72		34	54.7	365.9
6	16	48	0.42	137.98	−18	41	0.6	−359.9
7		50	18.40	138.23		47	0.5	353.9
8		52	36.63	138.48		52	54.4	347.7
9		54	55.11	138.74	18	58	42.1	341.5
10		57	13.85	138.99	19	4	23.6	335.3
11	16	59	32.84	139.22		9	58.9	329.0
12	17	1	52.06	139.48	−19	15	27.9	−322.7
13		4	11.54	139.72		20	50.6	316.2
14		6	31.26	139.96		26	6.8	309.8
15		8	51.22	140.20		31	16.6	303.1
16		11	11.42	140.43		36	19.7	296.7
17		13	31.85	140.67		41	16.4	290.0
18	17	15	52.52	140.90	−19	46	6.4	−283.4
19		18	13.42	141.12		50	49.8	276.5
20		20	34.54	141.35		55	26.3	269.9
21		22	55.89	141.56	19	59	56.2	263.0
22		25	17.45	141.79	20	4	19.2	256.2
23		27	39.24	142.00		8	35.4	249.1
	5月11日							
0	17	30	1.24	142.22	−20	12	44.5	−242.2
1		32	23.46	142.42		16	46.7	235.2
2		34	45.88	142.63		20	41.9	228.1
3		37	8.51	142.83		24	30.0	221.1
4		39	31.34	143.03		28	11.1	214.0
5		41	54.37	143.23		31	45.1	206.7
6	17	44	17.60	143.43	−20	35	11.8	−199.5
7		46	41.03	143.60		38	31.3	192.2
8		49	4.63	143.79		41	43.5	184.9
9		51	28.42	143.97		44	48.4	177.5
10		53	52.39	144.15		47	45.9	170.2
11		56	16.54	144.32		50	36.1	162.7
12	17	58	40.86	144.49	−20	53	18.8	−155.3
13	18	1	5.35	144.65		55	54.1	147.7
14		3	30.00	144.82	20	58	21.8	140.3
15		5	54.82	144.97	21	0	42.1	132.6
16		8	19.79	145.13		2	54.7	125.0
17		10	44.92	145.27		4	59.7	117.4
18	18	13	10.19	145.41	−21	6	57.1	−109.8
19		15	35.60	145.55		8	46.9	102.1
20		18	1.15	145.69		10	29.0	94.4
21		20	26.84	145.82		12	3.4	86.6
22		22	52.66	145.95		13	30.0	78.9
23		25	18.61	146.06		14	48.9	71.0
	5月12日							
0	18	27	44.67	146.18	−21	15	59.9	− 63.2
1		30	10.85	146.29		17	3.1	55.4
2		32	37.14	146.41		17	58.5	47.5
3		35	3.55	146.50		18	46.0	39.6
4		37	30.05	146.60		19	25.6	31.8
5		39	56.65	146.70		19	57.4	23.8
6	18	42	23.35	146.79	−21	20	21.2	− 16.0
7		44	50.14	146.87		20	37.2	− 7.9
8		47	17.01	146.95		20	45.1	0.0
9		49	43.96	147.02		20	45.1	+ 8.0
10		52	10.98	147.10		20	37.1	16.0
11		54	38.08	147.15		20	21.1	+ 24.0
12	18	57	5.23		−21	19	57.1	

世界時	赤経				赤緯			
	5月12日							
h	h	m	s	s	°	′	″	″
12	18	57	5.23	147.22	−21	19	57.1	+ 32.0
13	18	59	32.45	147.27		19	25.1	40.0
14	19	1	59.72	147.33		18	45.1	48.1
15		4	27.05	147.36		17	57.0	56.0
16		6	54.41	147.41		17	1.0	64.1
17		9	21.82	147.45		15	56.9	72.1
18	19	11	49.27	147.48	−21	14	44.8	+ 80.2
19		14	16.75	147.50		13	24.6	88.2
20		16	44.25	147.52		11	56.4	96.2
21		19	11.77	147.54		10	20.2	104.2
22		21	39.31	147.56		8	36.0	112.3
23		24	6.87	147.55		6	43.7	120.3
	5月13日							
0	19	26	34.42	147.57	−21	4	43.4	+128.4
1		29	1.99	147.56		2	35.0	136.3
2		31	29.55	147.56	21	0	18.7	144.4
3		33	57.11	147.53	20	57	54.3	152.3
4		36	24.64	147.53		55	22.0	160.3
5		38	52.17	147.51		52	41.7	168.2
6	19	41	19.68	147.49	−20	49	53.5	+176.2
7		43	47.17	147.45		46	57.3	184.2
8		46	14.62	147.42		43	53.1	192.1
9		48	42.04	147.38		40	41.0	200.0
10		51	9.42	147.34		37	21.0	208.0
11		53	86.76	147.30		33	53.0	215.7
12	19	56	4.06	147.25	−20	30	17.3	+223.7
13	19	58	31.31	147.19		26	33.6	231.4
14	20	0	58.50	147.13		22	42.2	239.3
15		3	25.63	147.07		18	42.9	247.0
16		5	52.70	147.01		14	35.9	254.8
17		8	19.71	146.92		10	21.1	262.5
18	20	10	46.63	146.86	−20	5	58.6	+270.3
19		13	13.49	146.78	20	1	28.3	277.8
20		15	40.27	146.70	19	56	50.5	285.6
21		18	6.97	146.61		52	4.9	293.1
22		20	33.58	146.53		47	11.8	300.8
23		23	0.11	146.43		42	11.0	308.3
	5月14日							
0	20	25	26.54	146.34	−19	37	2.7	+315.9
1		27	52.88	146.24		31	46.8	323.3
2		30	19.12	146.14		26	23.5	330.8
3		32	45.26	146.03		20	52.7	338.1
4		35	11.29	145.94		15	14.6	345.6
5		37	37.23	145.81		9	29.0	352.9
6	20	40	3.04	145.71	−19	3	36.1	+360.2
7		42	28.75	145.58	18	57	35.9	367.3
8		44	54.33	145.47		51	28.6	374.6
9		47	19.80	145.34		45	14.0	381.8
10		49	45.14	145.22		38	52.2	389.0
11		52	10.36	145.09		32	23.2	396.0
12	20	54	35.45	144.97	−18	25	47.2	+403.1
13		57	0.42	144.83		19	4.1	410.0
14	20	59	25.25	144.70		12	14.1	417.0
15	21	1	49.95	144.56	18	5	17.1	423.8
16		4	14.51	144.43	17	58	13.3	430.7
17		6	38.94	144.28		51	2.6	437.5
18	21	9	3.22	144.15	−17	43	45.1	+444.2
19		11	27.37	144.00		36	20.9	451.0
20		13	51.37	143.86		28	49.9	457.6
21		16	15.23	143.71		21	12.3	464.2
22		18	38.94	143.56		13	28.1	470.8
23		21	2.50	143.41	17	5	37.3	477.1
24	21	23	25.91		−16	57	40.2	

世界時	赤経				赤緯			
	5 月 15 日							
h	h	m	s	s	°	′	″	″
0	21	23	25.91	143.27	−16	57	40.2	+483.7
1		25	49.18	143.11		49	36.5	490.0
2		28	12.29	142.96		41	26.5	496.4
3		30	35.25	142.80		33	10.1	502.6
4		32	58.05	142.66		24	47.5	508.8
5		35	20.71	142.49		16	18.7	514.9
6	21	37	43.20	142.34	−16	7	43.8	+521.1
7		40	5.54	142.17	15	59	2.7	527.0
8		42	27.71	142.03		50	15.7	533.0
9		44	49.74	141.86		41	22.7	538.9
10		47	11.60	141.71		32	23.8	544.8
11		49	33.31	141.55		23	19.0	550.6
12	21	51	54.86	141.39	−15	14	8.4	+556.3
13		54	16.25	141.23	15	4	52.1	562.0
14		56	37.48	141.07	14	55	30.1	567.5
15	21	58	58.55	140.91		46	2.6	573.1
16	22	1	19.46	140.76		36	29.5	578.6
17		3	40.22	140.59		26	50.9	583.9
18	22	6	0.81	140.44	−14	17	7.0	+589.3
19		8	21.25	140.28	14	7	17.7	594.5
20		10	41.53	140.12	13	57	23.2	599.8
21		13	1.65	139.96		47	23.4	604.9
22		15	21.61	139.81		37	18.5	610.0
23		17	41.42	139.64		27	8.5	615.0
	5 月 16 日							
0	22	20	1.06	139.50	−13	16	53.5	+620.0
1		22	20.56	139.33	13	6	33.5	624.7
2		24	39.89	139.18	12	56	8.8	629.6
3		26	59.07	139.02		45	39.2	634.3
4		29	18.09	138.89		35	4.9	639.0
5		31	36.98	138.72		24	25.9	643.6
6	22	33	55.70	138.58	−12	13	42.3	+648.1
7		36	14.28	138.42	12	2	54.2	652.5
8		38	32.70	138.28	11	52	1.7	656.9
9		40	50.98	138.13		41	4.8	661.3
10		43	9.11	137.99		30	3.5	665.5
11		45	27.10	137.85		18	58.0	669.7
12	22	47	44.95	137.71	−11	7	48.3	+673.8
13		50	2.66	137.56	10	56	34.5	677.7
14		52	20.22	137.43		45	16.8	681.8
15		54	37.65	137.29		33	55.0	685.6
16		56	54.94	137.16		22	29.4	689.4
17	22	59	12.10	137.01	10	11	0.0	693.2
18	23	1	29.11	136.90	− 9	59	26.8	+696.8
19		3	46.01	136.75		47	50.0	700.4
20		6	2.76	136.63		36	9.6	703.9
21		8	19.39	136.50		24	25.7	707.3
22		10	35.89	136.38		12	38.4	710.7
23		12	52.27	136.26	9	0	47.7	714.0
	5 月 17 日							
0	23	15	8.53	136.14	− 8	48	53.7	+717.2
1		17	24.67	136.01		36	56.5	720.4
2		19	40.68	135.91		24	56.1	723.4
3		21	56.59	135.78		12	52.7	726.4
4		24	12.37	135.67	8	0	46.3	729.3
5		26	28.04	135.56	7	48	37.0	732.1
6	23	28	43.60	135.46	− 7	36	24.9	+734.9
7		30	59.06	135.36		24	10.0	737.5
8		33	14.42	135.25	7	11	52.5	740.2
9		35	29.67	135.15	6	59	32.3	742.7
10		37	44.82	135.06		47	9.6	745.2
11		39	59.88	134.96		34	44.4	747.8
12	23	42	14.84	134.87	− 6	22	16.9	+747.5

世界時	赤経				赤緯			
	5 月 17 日							
h	h	m	s	s	°	′	″	″
12	23	42	14.84	134.87	− 6	22	16.9	+749.8
13		44	29.71	134.77	6	9	47.1	752.0
14		46	44.48	134.69	5	57	15.1	754.2
15		48	59.17	134.61		44	40.9	756.2
16		51	13.78	134.53		32	4.7	758.2
17		53	28.31	134.44		19	26.5	760.2
18	23	55	42.75	134.37	− 5	6	46.3	+762.0
19	23	57	57.12	134.29	4	54	4.3	763.7
20	0	0	11.41	134.22		41	20.6	765.4
21		2	25.63	134.16		28	35.2	766.9
22		4	39.79	134.09		15	48.3	768.5
23		6	53.88	134.02	4	2	59.8	769.9
	5 月 18 日							
0	0	9	7.90	133.97	− 3	50	9.9	+771.3
1		11	21.87	133.90		37	18.6	772.5
2		13	35.77	133.85	3	24	26.1	773.7
3		15	49.62	133.79	3	11	32.4	774.9
4		18	3.41	133.75	2	58	37.5	776.0
5		20	17.16	133.71		45	41.5	776.9
6	0	22	30.87	133.66	− 2	32	44.6	+777.8
7		24	44.53	133.61		19	46.8	778.5
8		26	58.14	133.58	2	6	48.3	779.3
9		29	11.72	133.53	1	53	49.0	779.9
10		31	25.25	133.51		40	49.1	780.6
11		33	38.76	133.47		27	48.5	780.9
12	0	35	52.23	133.45	− 1	14	47.6	+781.4
13		38	5.68	133.42	1	1	46.2	781.7
14		40	19.10	133.40	0	48	44.5	782.0
15		42	32.50	133.38		35	42.5	782.1
16		44	45.88	133.37		22	40.4	782.3
17		46	59.25	133.35	− 0	9	38.1	782.2
18	0	49	12.60	133.34	+ 0	3	24.1	+782.2
19		51	25.94	133.33		16	26.3	782.0
20		53	39.27	133.33		29	28.3	781.8
21		55	52.60	133.32		42	30.1	781.4
22	0	58	5.92	133.33	0	55	31.5	781.1
23	1	0	19.25	133.32	1	8	32.6	780.6
	5 月 19 日							
0	1	2	32.57	133.34	+ 1	21	33.2	+780.1
1		4	45.91	133.33		34	33.3	779.4
2		6	59.24	133.35	1	47	32.7	778.7
3		9	12.59	133.36	2	0	31.4	777.9
4		11	25.95	133.38		13	29.3	777.1
5		13	39.33	133.39		26	26.4	776.1
6	1	15	52.72	133.41	+ 2	39	22.5	+775.1
7		18	6.13	133.43	2	52	17.6	773.9
8		20	19.56	133.47	3	5	11.5	772.7
9		22	33.03	133.48		18	4.2	771.5
10		24	46.51	133.52		30	55.7	770.1
11		27	0.03	133.55		43	45.8	768.7
12	1	29	13.58	133.59	+ 3	56	34.5	+767.2
13		31	27.17	133.62	4	9	21.7	765.6
14		33	40.79	133.67		22	7.3	764.0
15		35	54.46	133.70		34	51.3	762.1
16		38	8.16	133.75	4	47	33.4	760.4
17		40	21.91	133.79	5	0	13.8	758.5
18	1	42	35.70	133.85	+ 5	12	52.3	+756.5
19		44	49.55	133.90		25	28.8	754.5
20		47	3.45	133.95		38	3.3	752.3
21		49	17.40	134.00	5	50	35.6	750.1
22		51	31.40	134.06	6	3	5.7	747.8
23		53	45.46	134.11		15	33.5	+745.4
24	1	55	59.57		+ 6	27	58.9	

世界時	赤経				赤緯			
	5 月 20 日							
h	h	m	s	s	°	′	″	″
0	1	55	59.57	134.19	+ 6	27	58.9	+743.1
1	1	58	13.76	134.24		40	22.0	740.4
2	2	0	28.00	134.32	6	52	42.4	737.8
3		2	42.32	134.37	7	5	0.2	735.2
4		4	56.69	134.45		17	15.4	732.4
5		7	11.14	134.51		29	27.8	729.6
6	2	9	25.65	134.58	+ 7	41	37.4	+726.8
7		11	40.23	134.66	7	53	44.2	723.7
8		13	54.89	134.73	8	5	47.9	720.7
9		16	9.62	134.81		17	48.6	717.4
10		18	24.43	134.89		29	46.0	714.3
11		20	39.32	134.96		41	40.3	711.1
12	2	22	54.28	135.05	+ 8	53	31.4	+707.7
13		25	9.33	135.13	9	5	19.1	704.3
14		27	24.46	135.21		17	3.4	700.8
15		29	39.67	135.29		28	44.2	697.1
16		31	54.96	135.38		40	21.3	693.6
17		34	10.34	135.45	9	51	54.9	689.8
18	2	36	25.79	135.56	+10	3	24.7	+686.0
19		38	41.35	135.63		14	50.7	682.1
20		40	56.98	135.72		26	12.8	678.3
21		43	12.70	135.82		37	31.1	674.2
22		45	28.52	135.91		48	45.3	670.2
23		47	44.43	136.00	10	59	55.5	666.0
	5 月 21 日							
0	2	50	0.43	136.09	+11	11	1.5	+661.8
1		52	16.52	136.18		22	3.3	657.5
2		54	32.70	136.28		33	0.8	653.2
3		56	48.98	136.37		43	54.0	648.7
4	2	59	5.35	136.47	11	54	42.7	644.3
5	3	1	21.82	136.56	12	5	27.0	639.7
6	3	3	38.38	136.65	+12	16	6.7	+635.1
7		5	55.03	136.75		26	41.8	630.4
8		8	11.78	136.84		37	12.2	625.7
9		10	28.62	136.94		47	37.9	620.8
10		12	45.56	137.03	12	57	58.7	616.0
11		15	2.59	137.12	13	8	14.7	610.9
12	3	17	19.71	137.22	+13	18	25.6	+606.0
13		19	36.93	137.31		28	31.6	601.0
14		21	54.24	137.41		38	32.6	595.8
15		24	11.65	137.50		48	28.4	590.6
16		26	29.15	137.59	13	58	19.0	585.4
17		28	46.74	137.69	14	8	4.4	580.0
18	3	31	4.43	137.77	+14	17	44.4	+574.7
19		33	22.20	137.87		27	19.1	569.2
20		35	40.07	137.95		36	48.3	563.9
21		37	58.02	138.05		46	12.2	558.2
22		40	16.07	138.14	14	55	30.4	552.6
23		42	34.21	138.22	15	4	43.0	547.0
	5 月 22 日							
0	3	44	52.43	138.32	+15	13	50.0	+541.3
1		47	10.75	138.39		22	51.3	535.5
2		49	29.14	138.48		31	46.8	529.7
3		51	47.62	138.56		40	36.5	523.9
4		54	6.18	138.65		49	20.4	518.0
5		56	24.83	138.72	15	57	58.4	511.9
6	3	58	43.55	138.80	+16	6	30.3	+506.0
7	4	1	2.35	138.88		14	56.3	500.0
8		3	21.23	138.95		23	16.3	493.9
9		5	40.18	139.03		31	30.2	487.6
10		7	59.21	139.10		39	37.8	481.5
11		10	18.31	139.18		47	39.3	475.2
12	4	12	37.49		+16	55	34.5	

世界時	赤経				赤緯			
	5 月 22 日							
h	h	m	s	s	°	′	″	″
12	4	12	37.49	139.24	+16	55	34.5	+469.0
13		14	56.73	139.30	17	3	23.5	462.6
14		17	16.03	139.38		11	6.1	456.2
15		19	35.41	139.43		18	42.3	449.8
16		21	54.84	139.50		26	12.1	443.3
17		24	14.34	139.55		33	35.4	436.9
18	4	26	33.89	139.60	+17	40	52.3	+430.4
19		28	53.49	139.66		48	2.7	423.7
20		31	13.15	139.72	17	55	6.4	417.1
21		33	32.87	139.76	18	2	3.5	410.5
22		35	52.63	139.81		8	54.0	403.9
23		38	12.44	139.84		15	37.9	397.0
	5 月 23 日							
0	4	40	32.28	139.89	+18	22	14.9	+390.4
1		42	52.17	139.93		28	45.3	383.6
2		45	12.10	139.96		35	8.9	376.8
3		47	32.06	140.00		41	25.7	369.9
4		49	52.06	140.03		47	35.6	363.0
5		52	12.09	140.05		53	38.6	356.2
6	4	54	32.14	140.08	+18	59	34.8	+349.3
7		56	52.22	140.09	19	5	24.1	342.3
8	4	59	12.31	140.12		11	6.4	335.4
9	5	1	32.43	140.13		16	41.8	328.3
10		3	52.56	140.14		22	10.1	321.3
11		6	12.70	140.14		27	31.4	314.3
12	5	8	32.84	140.16	+19	32	45.7	+307.3
13		10	53.00	140.15		37	53.0	300.2
14		13	13.15	140.16		42	53.2	293.2
15		15	33.31	140.15		47	46.4	285.9
16		17	53.46	140.14		52	32.3	278.9
17		20	13.60	140.12	19	57	11.2	271.6
18	5	22	33.72	140.11	+20	1	42.8	+264.6
19		24	53.83	140.09		6	7.4	257.4
20		27	13.92	140.07		10	24.8	250.3
21		29	33.99	140.05		14	35.1	243.0
22		31	54.04	140.02		18	38.1	235.9
23		34	14.06	139.98		22	34.0	228.6
	5 月 24 日							
0	5	36	34.04	139.95	+20	26	22.6	+221.5
1		38	53.99	139.90		30	4.1	214.2
2		41	13.89	139.87		33	38.3	207.0
3		43	33.76	139.82		37	5.3	199.7
4		45	53.58	139.77		40	25.0	192.5
5		48	13.35	139.71		43	37.5	185.3
6	5	50	33.06	139.66	+20	46	42.8	+178.0
7		52	52.72	139.59		49	40.8	170.8
8		55	12.31	139.53		52	31.6	163.6
9		57	31.84	139.46		55	15.2	156.3
10	5	59	51.30	139.39	20	57	51.5	149.1
11	6	2	10.69	139.31	21	0	20.6	141.9
12	6	4	30.00	139.23	+21	2	42.5	+134.7
13		6	49.23	139.15		4	57.2	127.4
14		9	8.38	139.07		7	4.6	120.2
15		11	27.45	138.96		9	4.8	113.0
16		13	46.41	138.88		10	57.8	105.9
17		16	5.29	138.78		12	43.7	98.6
18	6	18	24.07	138.68	+21	14	22.3	+ 91.5
19		20	42.75	138.57		15	53.8	84.3
20		23	1.32	138.47		17	18.1	77.2
21		25	19.79	138.35		18	35.3	70.0
22		27	38.14	138.24		19	45.3	63.0
23		29	56.38	138.12		20	48.3	+ 55.8
24	6	32	14.50		+21	21	44.1	

世界時	赤経				赤緯			
	5 月 25 日							
h	h	m	s	s	°	′	″	″
0	6	32	14.50	138.00	+21	21	44.1	+ 48.7
1		34	32.50	137.87		22	32.8	41.7
2		36	50.37	137.75		23	14.5	34.6
3		39	8.12	137.60		23	49.1	27.5
4		41	25.72	137.48		24	16.6	20.6
5		43	43.20	137.34		24	37.2	13.5
6	6	46	0.54	137.19	+21	24	50.7	+ 6.6
7		48	17.73	137.05		24	57.3	− 0.4
8		50	34.78	136.91		24	56.9	7.3
9		52	51.69	136.74		24	49.6	14.3
10		55	8.43	136.60		24	35.3	21.2
11		57	25.03	136.44		24	14.1	28.0
12	6	59	41.47	136.28	+21	23	46.1	− 34.9
13	7	1	57.75	136.12		23	11.2	41.6
14		4	13.87	135.95		22	29.6	48.4
15		6	29.82	135.78		21	41.2	55.2
16		8	45.60	135.62		20	46.0	62.0
17		11	1.22	135.43		19	44.0	68.7
18	7	13	16.65	135.26	+21	18	35.3	− 75.3
19		15	31.91	135.08		17	20.0	81.9
20		17	46.99	134.90		15	58.1	88.6
21		20	1.89	134.72		14	29.5	95.2
22		22	16.61	134.53		12	54.3	101.7
23		24	31.14	134.35		11	12.6	108.2
	5 月 26 日							
0	7	26	45.49	134.16	+21	9	24.4	−114.8
1		28	59.65	133.95		7	29.6	121.1
2		31	13.60	133.76		5	28.5	127.6
3		33	27.36	133.56		3	20.9	134.0
4		35	40.92	133.37	21	1	6.9	140.4
5		37	54.29	133.16	20	58	46.5	146.7
6	7	40	7.45	132.96	+20	56	19.8	−153.0
7		42	20.41	132.75		53	46.8	159.1
8		44	33.16	132.55		51	7.7	165.5
9		46	45.71	132.34		48	22.2	171.6
10		48	58.05	132.13		45	30.6	177.8
11		51	10.18	131.91		42	32.8	183.7
12	7	53	22.09	131.71	+20	39	29.1	−189.9
13		55	33.80	131.48		36	19.2	195.9
14		57	45.28	131.27		33	3.3	201.9
15	7	59	56.55	131.05		29	41.4	207.9
16	8	2	7.60	130.84		26	13.5	213.9
17		4	18.44	130.61		22	39.6	219.6
18	8	6	29.05	130.40	+20	19	0.0	−225.5
19		8	39.45	130.17		15	14.5	231.3
20		10	49.62	129.95		11	23.2	237.1
21		12	59.57	129.73		7	26.1	242.8
22		15	9.30	129.50	20	3	23.3	248.5
23		17	18.80	129.27	19	59	14.8	254.1
	5 月 27 日							
0	8	19	28.07	129.05	+19	55	0.7	−259.7
1		21	37.12	128.83		50	41.0	265.2
2		23	45.95	128.59		46	15.8	270.7
3		25	54.54	128.37		41	45.1	276.3
4		28	2.91	128.14		37	8.8	281.8
5		30	11.05	127.91		32	27.0	287.1
6	8	32	18.96	127.69	+19	27	39.9	−292.4
7		34	26.65	127.44		22	47.5	297.8
8		36	34.09	127.22		17	49.7	303.1
9		38	41.31	126.99		12	46.6	308.2
10		40	48.30	126.76		7	38.4	313.4
11		42	55.06	126.54	19	2	25.0	−318.6
12	8	45	1.60		+18	57	6.4	

世界時	赤経				赤緯			
	5 月 27 日							
h	h	m	s	s	°	′	″	″
12	8	45	1.60	126.30	+18	57	6.4	−323.7
13		47	7.90	126.08		51	42.7	328.7
14		49	13.98	125.85		46	14.0	333.8
15		51	19.83	125.62		40	40.2	338.8
16		53	25.45	125.39		35	1.4	343.8
17		55	30.84	125.16		29	17.6	348.6
18	8	57	36.00	124.93	+18	23	29.0	−353.5
19	8	59	40.93	124.71		17	35.5	358.2
20	9	1	45.64	124.48		11	37.3	363.0
21		3	50.12	124.26	18	5	34.3	367.8
22		5	54.38	124.03	17	59	26.5	372.5
23		7	58.41	123.81		53	14.0	377.1
	5 月 28 日							
0	9	10	2.22	123.59	+17	46	56.9	−381.7
1		12	5.81	123.36		40	35.2	386.3
2		14	9.17	123.14		34	8.9	390.8
3		16	12.31	122.92		27	38.1	395.4
4		18	15.23	122.70		21	2.7	399.8
5		20	17.93	122.48		14	22.9	404.2
6	9	22	20.41	122.27	+17	7	38.7	−408.5
7		24	22.68	122.04	17	0	50.2	412.9
8		26	24.72	121.84	16	53	57.3	417.2
9		28	26.56	121.62		47	0.1	421.3
10		30	28.18	121.41		39	58.8	425.5
11		32	29.59	121.19		32	53.3	429.7
12	9	34	30.78	120.99	+16	25	43.6	−433.9
13		36	31.77	120.78		18	29.7	437.9
14		38	32.55	120.57		11	11.8	442.0
15		40	33.12	120.37	16	3	49.8	445.9
16		42	33.49	120.17	15	56	23.9	449.9
17		44	33.66	119.96		48	54.0	453.8
18	9	46	33.62	119.76	+15	41	20.2	−457.7
19		48	33.38	119.56		33	42.5	461.5
20		50	32.94	119.37		26	1.0	465.4
21		52	32.31	119.17		18	15.6	469.1
22		54	31.48	118.99		10	26.5	472.9
23		56	30.47	118.78	15	2	33.6	476.4
	5 月 29 日							
0	9	58	29.25	118.60	+14	54	37.2	−480.2
1	10	0	27.85	118.41		46	37.0	483.8
2		2	26.26	118.23		38	33.2	487.3
3		4	24.49	118.05		30	25.9	490.9
4		6	22.54	117.87		22	15.0	494.4
5		8	20.41	117.68		14	0.6	497.8
6	10	10	18.09	117.52	+14	5	42.8	−501.3
7		12	15.61	117.33	13	57	21.5	504.6
8		14	12.94	117.17		48	56.9	507.9
9		16	10.11	116.98		40	29.0	511.3
10		18	7.09	116.82		31	57.7	514.6
11		20	3.91	116.66		23	23.1	517.7
12	10	22	0.57	116.50	+13	14	45.4	−520.9
13		23	57.07	116.33	13	6	4.5	524.1
14		25	53.40	116.18	12	57	20.4	527.2
15		27	49.58	116.02		48	33.2	530.4
16		29	45.60	115.87		39	42.8	533.4
17		31	41.47	115.71		30	49.4	536.4
18	10	33	37.18	115.57	+12	21	53.0	−539.3
19		35	32.75	115.43		12	53.7	542.3
20		37	28.18	115.29	12	3	51.4	545.3
21		39	23.47	115.14	11	54	46.1	548.0
22		41	18.61	115.01		45	38.1	550.9
23		43	13.62	114.86		36	27.2	−553.7
24	10	45	8.48		+11	27	13.5	

世界時	赤経				赤緯			
	5 月 30 日							
h	h	m	s	s	°	′	″	″
0	10	45	8.48	114.73	+11	27	13.5	−556.4
1		47	3.21	114.61		17	57.1	559.2
2		48	57.82	114.48	11	8	37.9	562.0
3		50	52.30	114.36	10	59	15.9	564.5
4		52	46.66	114.24		49	51.4	567.2
5		54	40.90	114.11		40	24.2	569.8
6	10	56	35.01	114.01	+10	30	54.4	−572.3
7	10	58	29.02	113.88		21	22.1	574.8
8	11	0	22.90	113.77		11	47.3	577.4
9		2	16.67	113.67	10	2	9.9	579.8
10		4	10.34	113.56	9	52	30.1	582.2
11		6	3.90	113.46		42	47.9	584.5
12	11	7	57.36	113.37	+ 9	33	3.4	−586.9
13		9	50.73	113.26		23	16.5	589.3
14		11	43.99	113.18		13	27.2	591.6
15		13	37.17	113.08	9	3	35.6	593.7
16		15	30.25	113.00	8	53	41.9	595.9
17		17	23.25	112.91		43	46.0	598.1
18	11	19	16.16	112.83	+ 8	33	47.9	−600.3
19		21	8.99	112.75		23	47.6	602.4
20		23	1.74	112.69		13	45.2	604.5
21		24	54.43	112.60	8	3	40.7	606.5
22		26	47.03	112.54	7	53	34.2	608.6
23		28	39.57	112.47		43	25.6	610.5
	5 月 31 日							
0	11	30	32.04	112.41	+ 7	33	15.1	−612.4
1		32	24.45	112.35		23	2.7	614.4
2		34	16.80	112.30		12	48.3	616.3
3		36	9.10	112.24	7	2	32.0	618.0
4		38	1.34	112.19	6	52	14.0	619.9
5		39	53.53	112.14		41	54.1	621.7
6	11	41	45.67	112.11	+ 6	31	32.4	−623.3
7		43	37.78	112.06		21	9.1	625.1
8		45	29.84	112.03		10	44.0	626.8
9		47	21.87	111.99	6	0	17.2	628.4
10		49	13.86	111.96	5	49	48.8	630.0
11		51	5.82	111.93		39	18.8	631.6
12	11	52	57.75	111.91	+ 5	28	47.2	−633.1
13		54	49.66	111.88		18	14.1	634.7
14		56	41.54	111.88	5	7	39.4	636.2
15	11	58	33.42	111.85	4	57	3.2	637.5
16	12	0	25.27	111.85		46	25.7	638.9
17		2	17.12	111.84		35	46.8	640.3
18	12	4	8.96	111.83	+ 4	25	6.5	−641.7
19		6	0.79	111.83		14	24.8	643.0
20		7	52.62	111.84	4	3	41.8	644.3
21		9	44.46	111.83	3	52	57.5	645.4
22		11	36.29	111.85		42	12.1	646.7
23		13	28.14	111.86		31	25.4	647.9
	6 月 1 日							
0	12	15	20.00	111.87	+ 3	20	37.5	−649.0
1		17	11.87	111.89	3	9	48.5	650.0
2		19	3.76	111.92	2	58	58.5	651.2
3		20	55.68	111.94		48	7.3	652.1
4		22	47.62	111.97		37	15.2	653.2
5		24	39.59	112.00		26	22.0	654.1
6	12	26	31.59	112.04	+ 2	15	27.9	−655.1
7		28	23.63	112.07	2	4	32.8	655.8
8		30	15.70	112.13	1	53	37.0	656.8
9		32	7.83	112.16		42	40.2	657.5
10		33	59.99	112.21		31	42.7	658.3
11		35	52.20	112.26		20	44.4	−659.1
12	12	37	44.46		+ 1	9	45.3	

世界時	赤経				赤緯			
	6 月 1 日							
h	h	m	s	s	°	′	″	″
12	12	37	44.46	112.32	+ 1	9	45.3	−659.8
13		39	36.78	112.38	0	58	45.5	660.4
14		41	29.16	112.45		47	45.1	661.1
15		43	21.61	112.51		36	44.0	661.7
16		45	14.12	112.58		25	42.3	662.2
17		47	6.70	112.65		14	40.1	662.8
18	12	48	59.35	112.73	+ 0	3	37.3	−663.2
19		50	52.08	112.81	− 0	7	25.9	663.6
20		52	44.89	112.90		18	29.5	664.1
21		54	37.79	112.97		29	33.6	664.4
22		56	30.76	113.06		40	38.0	664.8
23	12	58	23.82	113.16		51	42.8	665.0
	6 月 2 日							
0	13	0	16.98	113.26	− 1	2	47.8	−665.3
1		2	10.24	113.35		13	53.1	665.4
2		4	3.59	113.47		24	58.5	665.6
3		5	57.06	113.56		36	4.1	665.8
4		7	50.62	113.68		47	9.9	665.9
5		9	44.30	113.79	1	58	15.8	665.9
6	13	11	38.09	113.92	− 2	9	21.7	−665.9
7		13	32.01	114.03		20	27.6	665.9
8		15	26.04	114.16		31	33.5	665.9
9		17	20.20	114.27		42	39.4	665.6
10		19	14.47	114.41	2	53	45.0	665.5
11		21	8.88	114.55	3	4	50.5	665.3
12	13	23	3.43	114.68	− 3	15	55.8	−665.2
13		24	58.11	114.82		27	1.0	664.7
14		26	52.93	114.98		38	5.7	664.4
15		28	47.91	115.11	3	49	10.1	664.0
16		30	43.02	115.26	4	0	14.1	663.6
17		32	38.28	115.42		11	17.7	663.2
18	13	34	33.70	115.58	− 4	22	20.9	−662.7
19		36	29.28	115.74		33	23.6	662.0
20		38	25.02	115.91		44	25.6	661.5
21		40	20.93	116.06	4	55	27.1	660.8
22		42	16.99	116.24	5	6	27.9	660.2
23		44	13.23	116.41		17	28.1	659.3
	6 月 3 日							
0	13	46	9.64	116.59	− 5	28	27.4	−658.6
1		48	6.23	116.77		39	26.0	657.7
2		50	3.00	116.96	5	50	23.7	656.9
3		51	59.96	117.13	6	1	20.6	655.9
4		53	57.09	117.33		12	16.5	655.0
5		55	54.42	117.53		23	11.5	653.9
6	13	57	51.95	117.72	− 6	34	5.4	−652.8
7	13	59	49.67	117.92		44	58.2	651.6
8	14	1	47.59	118.13	6	55	49.8	650.5
9		3	45.72	118.33	7	6	40.3	649.2
10		5	44.05	118.54		17	29.5	648.0
11		7	42.59	118.75		28	17.5	646.6
12	14	9	41.34	118.97	− 7	39	4.1	−645.2
13		11	40.31	119.18		49	49.3	643.8
14		13	39.49	119.41	8	0	33.1	642.3
15		15	38.90	119.62		11	15.4	640.7
16		17	38.52	119.85		21	56.1	639.2
17		19	38.37	120.09		32	35.3	637.5
18	14	21	38.46	120.32	− 8	43	12.8	−635.8
19		23	38.78	120.55		53	48.6	633.9
20		25	39.33	120.79	9	4	22.5	632.1
21		27	40.12	121.03		14	54.6	630.3
22		29	41.15	121.29		25	24.9	628.4
23		31	42.44	121.52		35	53.3	−626.3
24	14	33	42 96		− 9	46	19.6	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
6月4日								
0	14	33	43.96	121.77	− 9	46	19.6	−624.3
1		35	45.73	122.03	9	56	43.9	622.1
2		37	47.76	122.28	10	7	6.0	620.0
3		39	50.04	122.53		17	26.0	617.8
4		41	52.57	122.80		27	43.8	615.6
5		43	55.37	123.06		37	59.4	613.1
6	14	45	58.43	123.33	−10	48	12.5	−610.7
7		48	1.76	123.58	10	58	23.2	608.2
8		50	5.34	123.86	11	8	31.4	605.8
9		52	9.20	124.13		18	37.2	603.1
10		54	13.33	124.41		28	40.3	600.5
11		56	17.74	124.69		38	40.8	597.7
12	14	58	22.43	124.97	−11	48	38.5	−595.0
13	15	0	27.40	125.24	11	58	33.5	592.2
14		2	32.64	125.53	12	8	25.7	589.3
15		4	38.17	125.81		18	15.0	586.3
16		6	43.98	126.10		28	1.3	583.3
17		8	50.08	126.39		37	44.6	580.1
18	15	10	56.47	126.68	−12	47	24.7	−577.0
19		13	3.15	126.98	12	57	1.7	573.8
20		15	10.13	127.27	13	6	35.5	570.5
21		17	17.40	127.56		16	6.0	567.1
22		19	24.96	127.87		25	33.1	563.7
23		21	32.83	128.16		34	56.8	560.3
6月5日								
0	15	23	40.99	128.47	−13	44	17.1	−556.7
1		25	49.46	128.76	13	53	33.8	553.1
2		27	58.22	129.08	14	2	46.9	549.4
3		30	7.30	129.37		11	56.3	545.6
4		32	16.67	129.69		21	1.9	541.8
5		34	26.36	129.98		30	3.7	537.9
6	15	36	36.34	130.30	−14	39	1.6	−534.0
7		38	46.64	130.61		47	55.6	529.9
8		40	57.25	130.92	14	56	45.5	525.9
9		43	8.17	131.24	15	5	31.4	521.6
10		45	19.41	131.55		14	13.0	517.5
11		47	30.96	131.86		22	50.5	513.0
12	15	49	42.82	132.17	−15	31	23.5	−508.8
13		51	54.99	132.49		39	52.3	504.3
14		54	7.48	132.80		48	16.6	499.8
15		56	20.28	133.12	15	56	36.4	495.2
16	15	58	33.40	133.44	16	4	51.6	490.7
17	16	0	46.84	133.75		13	2.3	485.8
18	16	3	0.59	134.07	−16	21	8.1	−481.0
19		5	14.66	134.38		29	9.1	476.2
20		7	29.04	134.70		37	5.3	471.3
21		9	43.74	135.02		44	56.6	466.3
22		11	58.76	135.33	16	52	42.9	461.3
23		14	14.09	135.65	17	0	24.2	456.0
6月6日								
0	16	16	29.74	135.96	−17	8	0.2	−450.9
1		18	45.70	136.27		15	31.1	445.6
2		21	1.97	136.59		22	56.7	440.2
3		23	18.56	136.91		30	16.9	434.8
4		25	35.47	137.21		37	31.7	429.4
5		27	52.68	137.53		44	41.1	423.8
6	16	30	10.21	137.85	−17	51	44.9	−418.2
7		32	28.06	138.14	17	58	43.1	412.4
8		34	46.20	138.46	18	5	35.5	406.7
9		37	4.66	138.75		12	22.2	400.9
10		39	23.41	139.07		19	3.1	395.0
11		41	42.48	139.37		25	38.1	−389.0
12	16	44	1.85		−18	32	7.1	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
6月6日								
12	16	44	1.85	139.67	−18	32	7.1	−383.0
13		46	21.52	139.97		38	30.1	376.9
14		48	41.49	140.27		44	47.0	370.8
15		51	1.76	140.56		50	57.8	364.5
16		53	22.32	140.86	18	57	2.3	358.2
17		55	43.18	141.15	19	3	0.5	351.8
18	16	58	4.33	141.44	−19	8	52.3	−345.4
19	17	0	25.77	141.72		14	37.7	339.0
20		2	47.49	142.01		20	16.7	332.4
21		5	9.50	142.29		25	49.1	325.7
22		7	31.79	142.57		31	14.8	319.2
23		9	54.36	142.85		36	34.0	312.3
6月7日								
0	17	12	17.21	143.12	−19	41	46.3	−305.5
1		14	40.33	143.38		46	51.8	298.7
2		17	3.71	143.66		51	50.5	291.8
3		19	27.37	143.91	19	56	42.3	284.7
4		21	51.28	144.18	20	1	27.0	277.8
5		24	15.46	144.44		6	4.8	270.7
6	17	26	39.90	144.69	−20	10	35.5	−263.5
7		29	4.59	144.92		14	59.0	256.3
8		31	29.51	145.18		19	15.3	249.1
9		33	54.69	145.42		23	24.4	241.7
10		36	20.11	145.66		27	26.1	234.4
11		38	45.77	145.89		31	20.5	226.9
12	17	41	11.66	146.12	−20	35	7.4	−219.5
13		43	37.78	146.34		38	46.9	211.9
14		46	4.12	146.56		42	18.8	204.4
15		48	30.68	146.78		45	43.2	196.8
16		50	57.46	147.00		49	0.0	189.2
17		53	24.46	147.19		52	9.2	181.4
18	17	55	51.65	147.40	−20	55	10.6	−173.7
19	17	58	19.05	147.59	20	58	4.3	165.8
20	18	0	46.64	147.79	21	0	50.1	158.0
21		3	14.43	147.96		3	28.1	150.2
22		5	42.39	148.15		5	58.3	142.3
23		8	10.54	148.32		8	20.6	134.3
6月8日								
0	18	10	38.86	148.50	−21	10	34.9	−126.3
1		13	7.36	148.66		12	41.2	118.3
2		15	36.02	148.82		14	39.5	110.3
3		18	4.84	148.98		16	29.8	102.1
4		20	33.82	149.13		18	11.9	94.0
5		23	2.95	149.27		19	45.9	85.8
6	18	25	32.22	149.40	−21	21	11.7	− 77.7
7		28	1.62	149.54		22	29.4	69.4
8		30	31.16	149.66		23	38.8	61.2
9		33	0.82	149.78		24	40.0	53.0
10		35	30.60	149.91		25	33.0	44.8
11		38	0.51	150.00		26	17.8	36.3
12	18	40	30.51	150.11	−21	26	54.1	− 28.1
13		43	0.62	150.20		27	22.2	19.6
14		45	30.82	150.30		27	41.8	11.4
15		48	1.12	150.38		27	53.2	− 2.9
16		50	31.50	150.46		27	56.1	+ 5.5
17		53	1.96	150.54		27	50.6	13.8
18	18	55	32.50	150.60	−21	27	36.8	+ 22.2
19	18	58	3.10	150.66		27	14.6	30.6
20	19	0	33.76	150.72		26	44.0	39.1
21		3	4.48	150.76		26	4.9	47.5
22		5	35.24	150.81		25	17.4	56.0
23		8	6.05	150.84		24	21.4	+ 64.4
24	19	10	36.89		−21	23	17.0	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
6月9日								
0	19	10	36.89	150.88	−21	23	17.0	+ 72.9
1		13	7.77	150.90		22	4.1	81.3
2		15	38.67	150.91		20	42.8	89.8
3		18	9.58	150.93		19	13.0	98.1
4		20	40.51	150.94		17	34.9	106.7
5		23	11.45	150.93		15	48.2	115.0
6	19	25	42.38	150.94	−21	13	53.2	+123.5
7		28	13.32	150.91		11	49.7	131.8
8		30	44.23	150.90		9	37.9	140.3
9		33	15.13	150.87		7	17.6	148.7
10		35	46.00	150.86		4	48.9	157.1
11		38	16.86	150.81	21	2	11.8	165.4
12	19	40	47.67	150.77	−20	59	26.4	+173.8
13		43	18.44	150.73		56	32.6	182.1
14		45	49.17	150.68		53	30.5	190.5
15		48	19.85	150.61		50	20.0	198.6
16		50	50.46	150.55		47	1.4	207.0
17		53	21.01	150.49		43	34.4	215.1
18	19	55	51.50	150.41	−20	39	59.3	+223.4
19	19	58	21.91	150.33		36	15.9	231.5
20	20	0	52.24	150.25		32	24.4	239.7
21		3	22.49	150.16		28	24.7	247.8
22		5	52.65	150.07		24	16.9	256.0
23		8	22.72	149.97		20	0.9	263.9
6月10日								
0	20	10	52.69	149.87	−20	15	37.0	+272.0
1		13	22.56	149.75		11	5.0	280.0
2		15	52.31	149.64		6	25.0	287.9
3		18	21.95	149.52	20	1	37.1	295.9
4		20	51.47	149.40	19	56	41.2	303.8
5		23	20.87	149.28		51	37.4	311.5
6	20	25	50.15	149.15	−19	46	25.9	+319.3
7		28	19.30	149.01		41	6.6	327.1
8		30	48.31	148.87		35	39.5	334.8
9		33	17.18	148.72		30	4.7	342.4
10		35	45.90	148.59		24	22.3	350.0
11		38	14.49	148.42		18	32.3	357.6
12	20	40	42.91	148.27	−19	12	34.7	+365.2
13		43	11.18	148.11		6	29.5	372.5
14		45	39.29	147.95	19	0	17.0	380.0
15		48	7.24	147.79	18	53	57.0	387.4
16		50	35.03	147.63		47	29.6	394.7
17		53	2.66	147.44		40	54.9	401.9
18	20	55	30.10	147.27	−18	34	13.0	+409.1
19	20	57	57.37	147.09		27	23.9	416.2
20	21	0	24.46	146.91		20	27.7	423.3
21		2	51.37	146.73		13	24.4	430.3
22		5	18.10	146.54	18	6	14.1	437.3
23		7	44.64	146.36	17	58	56.8	444.2
6月11日								
0	21	10	11.00	146.17	−17	51	32.6	+451.1
1		12	37.17	145.96		44	1.5	457.8
2		15	3.13	145.78		36	23.7	464.6
3		17	28.91	145.57		28	39.1	471.1
4		19	54.48	145.38		20	48.0	477.8
5		22	19.86	145.17		12	50.2	484.3
6	21	24	45.03	144.98	−17	4	45.9	+490.8
7		27	10.01	144.77	16	56	35.1	497.1
8		29	34.78	144.56		48	18.0	503.6
9		31	59.34	144.36		39	54.4	509.7
10		34	23.70	144.15		31	24.7	516.0
11		36	47.85	143.93		22	48.7	522.1
12	21	39	11.78		−16	14	6.6	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
6月11日								
12	21	39	11.78	143.73	−16	14	6.6	+528.2
13		41	35.51	143.51	16	5	18.4	534.2
14		43	59.02	143.31	15	56	24.2	540.1
15		46	22.33	143.09		47	24.1	545.9
16		48	45.42	142.88		38	18.2	551.7
17		51	8.30	142.66		29	6.5	557.4
18	21	53	30.96	142.46	−15	19	49.1	+563.0
19		55	53.42	142.23		10	26.1	568.6
20	21	58	15.65	142.03	15	0	57.5	574.2
21	22	0	37.68	141.80	14	51	23.3	579.5
22		2	59.48	141.59		41	43.8	584.9
23		5	21.07	141.37		31	58.9	590.1
6月12日								
0	22	7	42.44	141.17	−14	22	8.8	+595.3
1		10	3.61	140.94		12	13.5	600.5
2		12	24.55	140.74	14	2	13.0	605.5
3		14	45.29	140.51	13	52	7.5	610.5
4		17	5.80	140.31		41	57.0	615.4
5		19	26.11	140.09		31	41.6	620.2
6	22	21	46.20	139.89	−13	21	21.4	+625.1
7		24	6.09	139.67		10	56.3	629.6
8		26	25.76	139.46	13	0	26.7	634.2
9		28	45.22	139.26	12	49	52.5	638.8
10		31	4.48	139.05		39	13.7	643.2
11		33	23.53	138.84		28	30.5	647.6
12	22	35	42.37	138.64	−12	17	42.9	+651.9
13		38	1.01	138.43	12	6	51.0	656.1
14		40	19.44	138.23	11	55	54.9	660.3
15		42	37.67	138.03		44	54.6	664.2
16		44	55.70	137.83		33	50.4	668.3
17		47	13.53	137.63		22	42.1	672.3
18	22	49	31.16	137.45	−11	11	29.8	+676.0
19		51	48.61	137.24		0	13.8	679.8
20		54	5.85	137.06	10	48	54.0	683.5
21		56	22.91	136.85		37	30.5	687.1
22	22	58	39.76	136.67		26	3.4	690.7
23	23	0	56.43	136.49		14	32.7	694.1
6月13日								
0	23	3	12.92	136.31	−10	2	58.6	+697.5
1		5	29.23	136.12		9	51	21.1	700.8
2		7	45.35	135.95		39	40.3	704.0
3		10	1.30	135.76		27	56.3	707.2
4		12	17.06	135.60		16	9.1	710.3
5		14	32.66	135.41	9	4	18.8	713.2
6	23	16	48.07	135.24	− 8	52	25.6	+716.2
7		19	3.31	135.08		40	29.4	718.9
8		21	18.39	134.92		28	30.5	721.7
9		23	33.31	134.75		16	28.8	724.5
10		25	48.06	134.60	8	4	24.3	727.1
11		28	2.66	134.43	7	52	17.2	729.6
12	23	30	17.09	134.29	− 7	40	7.6	+732.1
13		32	31.38	134.12		27	55.5	734.4
14		34	45.50	133.98		15	41.1	736.7
15		36	59.48	133.83	7	3	24.4	738.9
16		39	13.31	133.69	6	51	5.5	741.2
17		41	27.00	133.55		38	44.3	743.2
18	23	43	40.55	133.41	− 6	26	21.1	+745.2
19		45	53.96	133.27		13	55.9	747.1
20		48	7.23	133.14	6	1	28.8	749.0
21		50	20.37	133.02	5	48	59.8	750.7
22		52	33.39	132.89		36	29.1	752.5
23		54	46.28	132.77		23	56.6	+754.1
24	23	56	59.05		− 5	11	22.5	

6月14日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	23	56	59.05	132.65	− 5	11	22.5	+755.7
1	23	59	11.70	132.53	4	58	46.8	757.1
2	0	1	24.23	132.43		46	9.7	758.5
3		3	36.66	132.30		33	31.2	759.9
4		5	48.96	132.20		20	51.3	761.2
5		8	1.16	132.09	4	8	10.1	762.3
6	0	10	13.25	132.00	− 3	55	27.8	+763.5
7		12	25.25	131.90		42	44.3	764.4
8		14	37.15	131.81		29	59.9	765.5
9		16	48.96	131.71		17	14.4	766.2
10		19	0.67	131.63	3	4	28.2	767.1
11		21	12.30	131.54	2	51	41.1	767.8
12	0	23	23.84	131.46	− 2	38	53.3	+768.5
13		25	35.30	131.38		26	4.8	769.0
14		27	46.68	131.31		13	15.8	769.7
15		29	57.99	131.23	2	0	26.1	770.0
16		32	9.22	131.17	1	47	36.1	770.5
17		34	20.39	131.10		34	45.6	770.7
18	0	36	31.49	131.05	− 1	21	54.9	+770.9
19		38	42.54	130.98	1	9	4.0	771.1
20		40	53.52	130.93	0	56	12.9	771.2
21		43	4.45	130.87		43	21.7	771.2
22		45	15.32	130.83		30	30.5	771.2
23		47	26.15	130.78		17	39.3	770.9

6月15日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	0	49	36.93	130.74	− 0	4	48.4	+770.8
1		51	47.67	130.70	+ 0	8	2.4	770.5
2		53	58.37	130.68		20	52.9	770.2
3		56	9.05	130.63		33	43.1	769.7
4	0	58	19.68	130.60		46	32.8	769.3
5	1	0	30.28	130.58	0	59	22.1	768.6
6	1	2	40.86	130.57	+ 1	12	10.7	+768.1
7		4	51.43	130.54		24	58.8	767.2
8		7	1.97	130.53		37	46.0	766.5
9		9	12.50	130.50	1	50	32.5	765.7
10		11	23.00	130.50	2	3	18.2	764.8
11		13	33.50	130.50		16	3.0	763.7
12	1	15	44.00	130.49	+ 2	28	46.7	+762.8
13		17	54.49	130.49		41	29.5	761.5
14		20	4.98	130.49	2	54	11.0	760.4
15		22	15.48	130.50	3	6	51.4	759.1
16		24	25.98	130.50		19	30.5	757.8
17		26	36.48	130.52		32	8.3	756.4
18	1	28	47.00	130.53	+ 3	44	44.7	+754.9
19		30	57.53	130.55	3	57	19.6	753.3
20		33	8.08	130.58	4	9	52.9	751.7
21		35	18.66	130.59		22	24.6	750.0
22		37	29.25	130.63		34	54.6	748.3
23		39	39.88	130.64		47	22.9	746.5

6月16日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	1	41	50.52	130.68	+ 4	59	49.4	+744.6
1		44	1.20	130.72	5	12	14.0	742.5
2		46	11.92	130.76		24	36.5	740.5
3		48	22.68	130.79		36	57.0	738.5
4		50	33.47	130.84	5	49	15.5	736.3
5		52	44.31	130.88	6	1	31.8	734.1
6	1	54	55.19	130.93	+ 6	13	45.9	+731.8
7		57	6.12	130.99		25	57.7	729.3
8	1	59	17.11	131.04		38	7.0	727.0
9	2	1	28.15	131.10	6	50	14.0	724.3
10		3	39.25	131.15	7	2	18.3	721.8
11		5	50.40	131.21		14	20.1	+719.2
12	2	8	1.61		+ 7	26	19.3	

6月16日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
12	2	8	1.61	131.28	+ 7	26	19.3	+716.5
13		10	12.89	131.33		38	15.8	713.7
14		12	24.22	131.41	7	50	9.5	710.9
15		14	35.63	131.48	8	2	0.4	707.9
16		16	47.11	131.55		13	48.3	705.0
17		18	58.66	131.62		25	33.3	701.9
18	2	21	10.28	131.70	+ 8	37	15.2	+698.8
19		23	21.98	131.78	8	48	54.0	695.6
20		25	33.76	131.86	9	0	29.6	692.5
21		27	45.62	131.94		12	2.1	689.0
22		29	57.56	132.03		23	31.1	685.7
23		32	9.59	132.10		34	56.8	682.3

6月17日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	2	34	21.69	132.19	+ 9	46	19.1	+678.8
1		36	33.88	132.29	9	57	37.9	675.2
2		38	46.17	132.38	10	8	53.1	671.6
3		40	58.55	132.47		20	4.7	667.9
4		43	11.02	132.56		31	12.6	664.2
5		45	23.58	132.66		42	16.8	660.3
6	2	47	36.24	132.76	+10	53	17.1	+656.5
7		49	49.00	132.85	11	4	13.6	652.5
8		52	1.85	132.95		15	6.1	648.5
9		54	14.80	133.05		25	54.6	644.4
10		56	27.85	133.15		36	39.0	640.4
11	2	58	41.00	133.25		47	19.4	636.1
12	3	0	54.25	133.36	+11	57	55.5	+632.0
13		3	7.61	133.46	12	8	27.5	627.5
14		5	21.07	133.58		18	55.0	623.2
15		7	34.65	133.67		29	18.2	618.7
16		9	48.32	133.79		39	36.9	614.3
17		12	2.11	133.88	12	49	51.2	609.6
18	3	14	15.99	134.00	+13	0	0.8	+605.1
19		16	29.99	134.11		10	5.9	600.4
20		18	44.10	134.22		20	6.3	595.7
21		20	58.32	134.33		30	2.0	590.9
22		23	12.65	134.44		39	52.9	586.2
23		25	27.09	134.55		49	39.1	581.1

6月18日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	3	27	41.64	134.66	+13	59	20.2	+576.2
1		29	56.30	134.77	14	8	56.4	571.2
2		32	11.07	134.88		18	27.6	566.2
3		34	25.95	135.00		27	53.8	560.9
4		36	40.95	135.10		37	14.7	555.9
5		38	56.05	135.22		46	30.6	550.6
6	3	41	11.27	135.33	+14	55	41.2	+545.4
7		43	26.60	135.44	15	4	46.6	539.9
8		45	42.04	135.55		13	46.5	534.6
9		47	57.59	135.65		22	41.1	529.1
10		50	13.24	135.77		31	30.2	523.7
11		52	29.01	135.86		40	13.9	518.0
12	3	54	44.87	135.98	+15	48	51.9	+512.5
13		57	0.85	136.08	15	57	24.4	506.9
14	3	59	16.93	136.19	16	5	51.3	501.2
15	4	1	33.12	136.29		14	12.5	495.4
16		3	49.41	136.40		22	27.9	489.7
17		6	5.81	136.50		30	37.6	483.8
18	4	8	22.31	136.60	+16	38	41.4	+477.9
19		10	38.91	136.70		46	39.3	471.9
20		12	55.61	136.80	16	54	31.2	466.0
21		15	12.41	136.89	17	2	17.2	460.0
22		17	29.30	136.99		9	57.2	454.0
23		19	46.29	137.09		17	31.2	+447.8
24	4	22	3.38		+17	24	59.0	

6月19日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	4	22	3.38	137.18	+17	24	59.0	+441.7
1		24	20.56	137.27		32	20.7	435.5
2		26	37.83	137.37		39	36.2	429.3
3		28	55.20	137.44		46	45.5	423.0
4		31	12.64	137.53	17	53	48.5	416.8
5		33	30.17	137.61	18	0	45.3	410.3
6	4	35	47.78	137.70	+18	7	35.6	+404.0
7		38	5.48	137.77		14	19.6	397.5
8		40	23.25	137.85		20	57.1	391.2
9		42	41.10	137.93		27	28.3	384.5
10		44	59.03	138.01		33	52.8	378.1
11		47	17.04	138.06		40	10.9	371.4
12	4	49	35.10	138.14	+18	46	22.3	
13		51	53.24	138.19		52	27.2	+364.9
14		54	11.43	138.27	18	58	25.5	358.3
15		56	29.70	138.32	19	4	17.1	351.6
16	4	58	48.02	138.38		10	2.1	345.0
17	5	1	6.40	138.43		15	40.4	338.3
18	5	3	24.83	138.49	+19	21	11.8	331.4
19		5	43.32	138.52		26	36.5	+324.7
20		8	1.84	138.58		31	54.4	317.9
21		10	20.42	138.62		37	5.5	311.1
22		12	39.04	138.65		42	9.8	304.3
23		14	57.69	138.69		47	7.2	297.4
								290.5

6月20日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	5	17	16.38	138.72	+19	51	57.7	+283.7
1		19	35.10	138.76	19	56	41.4	276.6
2		21	53.86	138.78	20	1	18.0	269.7
3		24	12.64	138.80		5	47.7	262.6
4		26	31.44	138.82		10	10.3	255.7
5		28	50.26	138.84		14	26.0	248.7
6	5	31	9.10	138.86	+20	18	34.7	+241.7
7		33	27.96	138.85		22	36.4	234.6
8		35	46.81	138.87		26	31.0	227.6
9		38	5.68	138.86		30	18.6	220.5
10		40	24.54	138.87		33	59.1	213.4
11		42	43.41	138.87		37	32.5	206.4
12	5	45	2.28	138.86	+20	40	58.9	
13		47	21.14	138.84		44	18.2	+199.3
14		49	39.98	138.83		47	30.3	192.1
15		51	58.81	138.80		50	35.4	185.1
16		54	17.61	138.78		53	33.2	177.8
17		56	36.39	138.76		56	24.0	170.8
								163.6
18	5	58	55.15	138.73	+20	59	7.6	
19	6	1	13.88	138.68	21	1	44.1	+156.5
20		3	32.56	138.65		4	13.4	149.3
21		5	51.21	138.61		6	35.7	142.3
22		8	9.82	138.57		8	50.7	135.0
23		10	28.39	138.50		10	58.7	128.0
								120.8

6月21日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	6	12	46.89	138.46	+21	12	59.5	+113.7
1		15	5.35	138.39		14	53.2	106.4
2		17	23.74	138.34		16	39.6	99.4
3		19	42.08	138.27		18	19.0	92.2
4		22	0.35	138.20		19	51.2	85.1
5		24	18.55	138.12		21	16.3	77.9
6	6	26	36.67	138.05	+21	22	34.2	+ 70.9
7		28	54.72	137.97		23	45.1	63.8
8		31	12.69	137.88		24	48.9	56.7
9		33	30.57	137.79		25	45.6	49.6
10		35	48.36	137.71		26	35.2	42.5
11		38	6.07	137.60		27	17.7	+ 35.5
12	6	40	23.67		+21	27	53.2	

6月21日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
12	6	40	23.67	137.51	+21	27	53.2	+ 28.4
13		42	41.18	137.40		28	21.6	21.4
14		44	58.58	137.30		28	43.0	14.4
15		47	15.88	137.18		28	57.4	7.4
16		49	33.06	137.08		29	4.8	+ 0.4
17		51	50.14	136.95		29	5.2	− 6.5
18	6	54	7.09	136.83	+21	28	58.7	− 13.5
19		56	23.92	136.70		28	45.2	20.4
20	6	58	40.62	136.59		28	24.8	27.4
21	7	0	57.21	136.44		27	57.4	34.1
22		3	13.65	136.31		27	23.3	41.1
23		5	29.96	136.16		26	42.2	47.9

6月22日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	7	7	46.12	136.03	+21	25	54.3	− 54.8
1		10	2.15	135.88		24	59.5	61.5
2		12	18.03	135.74		23	58.0	68.3
3		14	33.77	135.58		22	49.7	75.0
4		16	49.35	135.43		21	34.7	81.8
5		19	4.78	135.26		20	12.9	88.4
6	7	21	20.04	135.11	+21	18	44.5	− 95.1
7		23	35.15	134.95		17	9.4	101.7
8		25	50.10	134.78		15	27.7	108.3
9		28	4.88	134.60		13	39.4	114.9
10		30	19.48	134.44		11	44.5	121.4
11		32	33.92	134.25		9	43.1	128.0
12	7	34	48.17	134.08	+21	7	35.1	− 134.5
13		37	2.25	133.89		5	20.6	140.8
14		39	16.14	133.71		2	59.8	147.3
15		41	29.85	133.53	21	0	32.5	153.7
16		43	43.38	133.35	20	57	58.8	160.0
17		45	56.73	133.15		55	18.8	166.4
18	7	48	9.88	132.96	+20	52	32.4	− 172.7
19		50	22.84	132.75		49	39.7	178.8
20		52	35.59	132.57		46	40.9	185.1
21		54	48.16	132.36		43	35.8	191.2
22		57	0.52	132.16		40	24.6	197.3
23	7	59	12.68	131.96		37	7.3	203.5

6月23日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	8	1	24.64	131.75	+20	33	43.8	− 209.6
1		3	36.39	131.55		30	14.2	215.5
2		5	47.94	131.34		26	38.7	221.5
3		7	59.28	131.12		22	57.2	227.5
4		10	10.40	130.91		19	9.7	233.4
5		12	21.31	130.69		15	16.3	239.2
6	8	14	32.00	130.48	+20	11	17.1	− 245.1
7		16	42.48	130.26		7	12.0	250.8
8		18	52.74	130.05	20	3	1.2	256.5
9		21	2.79	129.82	19	58	44.7	262.3
10		23	12.61	129.61		54	22.4	268.0
11		25	22.22	129.38		49	54.4	273.6
12	8	27	31.60	129.16	+19	45	20.8	− 279.1
13		29	40.76	128.93		40	41.7	284.7
14		31	49.69	128.71		35	57.0	290.2
15		33	58.40	128.48		31	6.8	295.6
16		36	6.88	128.25		26	11.2	301.1
17		38	15.13	128.03		21	10.1	306.4
18	8	40	23.16	127.80	+19	16	3.7	− 311.8
19		42	30.96	127.57		10	51.9	316.9
20		44	38.53	127.35		5	35.0	322.2
21		46	45.88	127.11	19	0	12.8	327.4
22		48	52.99	126.89	18	54	45.4	332.6
23		50	59.88	126.64		49	12.8	− 337.7
24	8	53	6.52		+18	43	35.1	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
6 月 24 日								
h 0	8	53	6.52	126.43	+18	43	35.1	−342.8
1		55	12.95	126.18		37	52.3	347.7
2		57	19.13	125.96		32	4.6	352.7
3	8	59	25.09	125.72		26	11.9	357.7
4	9	1	30.81	125.49		20	14.2	362.6
5		3	36.30	125.27		14	11.6	367.3
6	9	5	41.57	125.05	+18	8	4.3	−372.2
7		7	46.62	124.80	18	1	52.1	377.0
8		9	51.42	124.58	17	55	35.1	381.7
9		11	56.00	124.33		49	13.4	386.2
10		14	0.33	124.11		42	47.2	390.9
11		16	4.44	123.89		36	16.3	395.5
12	9	18	8.33	123.65	+17	29	40.8	−400.1
13		20	11.98	123.43		23	0.7	404.5
14		22	15.41	123.20		16	16.2	409.0
15		24	18.61	122.98		9	27.2	413.3
16		26	21.59	122.75	17	2	33.9	417.7
17		28	24.34	122.53	16	55	36.2	422.1
18	9	30	26.87	122.30	+16	48	34.1	−426.3
19		32	29.17	122.08		41	27.8	430.5
20		34	31.25	121.86		34	17.3	434.7
21		36	33.11	121.63		27	2.6	438.8
22		38	34.74	121.42		19	43.8	443.0
23		40	36.16	121.19		12	20.8	446.9
6 月 25 日								
0	9	42	37.35	120.98	+16	4	53.9	−451.0
1		44	38.33	120.76	15	57	22.9	454.9
2		46	39.09	120.55		49	48.0	459.0
3		48	39.64	120.33		42	9.0	462.7
4		50	39.97	120.12		34	26.3	466.6
5		52	40.09	119.92		26	39.7	470.4
6	9	54	40.01	119.71	+15	18	49.3	−474.1
7		56	39.72	119.50		10	55.2	477.9
8	9	58	39.22	119.29	15	2	57.3	481.6
9	10	0	38.51	119.09	14	54	55.7	485.1
10		2	37.60	118.89		46	50.6	488.7
11		4	36.49	118.68		38	41.9	492.2
12	10	6	35.17	118.49	+14	30	29.7	−495.9
13		8	33.66	118.29		22	13.8	499.2
14		10	31.95	118.10		13	54.6	502.6
15		12	30.05	117.90	14	5	32.0	506.0
16		14	27.95	117.71	13	57	6.0	509.3
17		16	25.66	117.52		48	36.7	512.7
18	10	18	23.18	117.34	+13	40	4.0	−515.9
19		20	20.52	117.16		31	28.1	519.1
20		22	17.68	116.97		22	49.0	522.2
21		24	14.65	116.79		14	6.8	525.4
22		26	11.44	116.61	13	5	21.4	528.6
23		28	8.05	116.43	12	56	32.8	531.5
6 月 26 日								
0	10	30	4.48	116.27	+12	47	41.3	−534.6
1		32	0.75	116.08		38	46.7	537.5
2		33	56.83	115.92		29	49.2	540.4
3		35	52.75	115.75		20	48.8	543.4
4		37	48.50	115.59		11	45.4	546.3
5		39	44.09	115.43	12	2	39.1	549.0
6	10	41	39.52	115.27	+11	53	30.1	−551.8
7		43	34.79	115.11		44	18.3	554.5
8		45	29.90	114.97		35	3.8	557.4
9		47	24.87	114.80		25	46.4	559.9
10		49	19.67	114.66		16	26.5	562.6
11		51	14.33	114.51	11	7	3.9	−565.1
12	10	53	8.84		+10	57	38.8	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
6 月 26 日								
h 12	10	53	8.84	114.37	+10	57	38.8	−567.7
13		55	3.21	114.23		48	11.1	570.2
14		56	57.44	114.09		38	40.9	572.8
15	10	58	51.53	113.95		29	8.1	575.1
16	11	0	45.48	113.83		19	33.0	577.6
17		2	39.31	113.68		9	55.4	580.0
18	11	4	32.99	113.56	+10	0	15.4	−582.3
19		6	26.55	113.44	9	50	33.1	584.5
20		8	19.99	113.32		40	48.6	586.9
21		10	13.31	113.20		31	1.7	589.0
22		12	6.51	113.10		21	12.7	591.2
23		13	59.61	112.97		11	21.5	593.4
6 月 27 日								
0	11	15	52.58	112.86	+ 9	1	28.1	−595.6
1		17	45.44	112.76	8	51	32.5	597.5
2		19	38.20	112.65		41	35.0	599.7
3		21	30.85	112.55		31	35.3	601.6
4		23	23.40	112.46		21	33.7	603.7
5		25	15.86	112.35		11	30.0	605.6
6	11	27	8.21	112.27	+ 8	1	24.4	−607.5
7		29	0.48	112.18	7	51	16.9	609.3
8		30	52.66	112.10		41	7.6	611.2
9		32	44.76	112.01		30	56.4	613.0
10		34	36.77	111.94		20	43.4	614.7
11		36	28.71	111.86		10	28.7	616.5
12	11	38	20.57	111.78	+ 7	0	12.2	−618.3
13		40	12.35	111.72	6	49	53.9	619.8
14		42	4.07	111.66		39	34.1	621.5
15		43	55.73	111.59		29	12.6	623.1
16		45	47.32	111.53		18	49.5	624.7
17		47	38.85	111.47	6	8	24.8	626.2
18	11	49	30.32	111.42	+ 5	57	58.6	−627.8
19		51	21.74	111.38		47	30.8	629.1
20		53	13.12	111.33		37	1.7	630.6
21		55	4.45	111.28		26	31.1	632.0
22		56	55.73	111.25		15	59.1	633.4
23	11	58	46.98	111.20	5	5	25.7	634.7
6 月 28 日								
0	12	0	38.18	111.18	+ 4	54	51.0	−636.1
1		2	29.36	111.14		44	14.9	637.2
2		4	20.50	111.12		33	37.7	638.5
3		6	11.62	111.09		22	59.2	639.7
4		8	2.71	111.08		12	19.5	640.9
5		9	53.79	111.05	4	1	38.6	642.0
6	12	11	44.84	111.04	+ 3	50	56.6	−643.1
7		13	35.88	111.04		40	13.5	644.1
8		15	26.92	111.03		29	29.4	645.2
9		17	17.95	111.03		18	44.2	646.1
10		19	8.98	111.04	3	7	58.1	647.1
11		21	0.02	111.03	2	57	11.0	648.1
12	12	22	51.05	111.04	+ 2	46	22.9	−649.1
13		24	42.09	111.06		35	33.8	649.8
14		26	33.15	111.08		24	44.0	650.7
15		28	24.23	111.09		13	53.3	651.4
16		30	15.32	111.11	2	3	1.9	652.2
17		32	6.43	111.13	1	52	9.7	652.9
18	12	33	57.56	111.17	+ 1	41	16.8	−653.7
19		35	48.73	111.20		30	23.1	654.2
20		37	39.93	111.24		19	28.9	654.9
21		39	31.17	111.28	1	8	34.0	655.5
22		41	22.45	111.33	0	57	38.5	656.0
23		43	13.78	111.36		46	42.5	−656.6
24	12	45	5.14		+ 0	35	45.9	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
6 月 29 日								
h 0	12	45	5.14	111.42	+ 0	35	45.9	−657.1
1		46	56.56	111.48		24	48.8	657.4
2		48	48.04	111.54		13	51.4	658.0
3		50	39.58	111.59	+ 0	2	53.4	658.3
4		52	31.17	111.65	− 0	8	4.9	658.6
5		54	22.82	111.73		19	3.5	659.0
6	12	56	14.55	111.81	− 0	30	2.5	−659.3
7		58	6.36	111.88		41	1.8	659.4
8	12	59	58.24	111.96	0	52	1.2	659.7
9	13	1	50.20	112.04	1	3	0.9	659.8
10		3	42.24	112.13		14	0.7	659.9
11		5	34.37	112.22		25	0.6	660.1
12	13	7	26.59	112.32	− 1	36	0.7	−660.2
13		9	18.91	112.41		47	0.9	660.1
14		11	11.32	112.52	1	58	1.0	660.1
15		13	3.84	112.62	2	9	1.1	660.1
16		14	56.46	112.73		20	1.2	660.1
17		16	49.19	112.84		31	1.2	659.8
18	13	18	42.03	112.97	− 2	42	1.0	−659.7
19		20	35.00	113.08	2	53	0.7	659.4
20		22	28.08	113.21	3	4	0.1	659.2
21		24	21.29	113.32		14	59.3	659.0
22		26	14.61	113.47		25	58.3	658.6
23		28	8.08	113.60		36	56.9	658.2
6 月 30 日								
0	13	30	1.68	113.74	− 3	47	55.1	−657.8
1		31	55.42	113.88	3	58	52.9	657.4
2		33	49.30	114.03	4	9	50.3	657.0
3		35	43.33	114.17		20	47.3	656.3
4		37	37.50	114.33		31	43.6	655.8
5		39	31.83	114.48		42	39.4	655.2
6	13	41	26.31	114.65	− 4	53	34.6	−654.6
7		43	20.96	114.80	5	4	29.2	653.8
8		45	15.76	114.98		15	23.0	653.1
9		47	10.74	115.15		26	16.1	652.3
10		49	5.89	115.33		37	8.4	651.5
11		51	1.22	115.50		47	59.9	650.6
12	13	52	56.72	115.69	− 5	58	50.5	−649.7
13		54	52.41	115.87	6	9	40.2	648.7
14		56	48.28	116.06		20	28.9	647.8
15	13	58	44.34	116.25		31	16.7	646.7
16	14	0	40.59	116.45		42	3.4	645.7
17		2	37.04	116.64	6	52	49.1	644.5
18	14	4	33.68	116.86	− 7	3	33.6	−643.3
19		6	30.54	117.06		14	16.9	642.1
20		8	27.60	117.27		24	59.0	640.9
21		10	24.87	117.49		35	39.9	639.4
22		12	22.36	117.71		46	19.3	638.1
23		14	20.07	117.92	7	56	57.4	636.7
7 月 1 日								
0	14	16	17.99	118.15	− 8	7	34.1	−635.3
1		18	16.14	118.37		18	9.4	633.6
2		20	14.51	118.61		28	43.0	632.1
3		22	13.12	118.85		39	15.1	630.5
4		24	11.97	119.09	8	49	45.6	628.9
5		26	11.06	119.32	9	0	14.5	627.0
6	14	28	10.38	119.57	− 9	10	41.5	−625.3
7		30	9.95	119.81		21	6.8	623.4
8		32	9.76	120.07		31	30.2	621.7
9		34	9.83	120.33		41	51.9	619.6
10		36	10.16	120.58	9	52	11.5	617.7
11		38	10.74	120.84	10	2	29.2	−615.6
12	14	40	11.58		−10	12	44.8	

世界時	赤経				赤緯			
	h	m	s	s	°	′	″	″
7 月 1 日								
h 12	14	40	11.58	121.11	−10	12	44.8	−613.6
13		42	12.69	121.37		22	58.4	611.4
14		44	14.06	121.65		33	9.8	609.2
15		46	15.71	121.92		43	19.0	606.9
16		48	17.63	122.19	10	53	25.9	604.6
17		50	19.82	122.47	11	3	30.5	602.2
18	14	52	22.29	122.76	−11	13	32.7	−599.8
19		54	25.05	123.04		23	32.5	597.2
20		56	28.09	123.33		33	29.7	594.7
21	14	58	31.42	123.62		43	24.4	592.1
22	15	0	35.04	123.92	11	53	16.5	589.5
23		2	38.96	124.21	12	3	6.0	586.7
7 月 2 日								
0	15	4	43.17	124.52	−12	12	52.7	−583.9
1		6	47.69	124.81		22	36.6	581.1
2		8	52.50	125.13		32	17.7	578.2
3		10	57.63	125.42		41	55.9	575.1
4		13	3.05	125.73	12	51	31.0	572.2
5		15	8.78	126.05	13	1	3.2	569.0
6	15	17	14.83	126.36	−13	10	32.2	−565.8
7		19	21.19	126.68		19	58.0	562.6
8		21	27.87	127.00		29	20.6	559.4
9		23	34.87	127.32		38	40.0	556.0
10		25	42.19	127.65		47	56.0	552.6
11		27	49.84	127.97	13	57	8.6	549.0
12	15	29	57.81	128.31	−14	6	17.6	−545.5
13		32	6.12	128.62		15	23.1	541.9
14		34	14.74	128.96		24	25.0	538.2
15		36	23.70	129.29		33	23.2	534.4
16		38	32.99	129.63		42	17.6	530.6
17		40	42.62	129.97		51	8.2	526.7
18	15	42	52.59	130.31	−14	59	54.9	−522.8
19		45	2.90	130.65	15	8	37.7	518.7
20		47	13.55	130.99		17	16.4	514.7
21		49	24.54	131.33		25	51.1	510.4
22		51	35.87	131.68		34	21.5	506.3
23		53	47.55	132.01		42	47.8	501.8
7 月 3 日								
0	15	55	59.56	132.37	−15	51	9.6	−497.6
1	15	58	11.93	132.71		59	27.2	493.1
2	16	0	24.64	133.06	16	7	40.3	488.6
3		2	37.70	133.42		15	48.9	483.9
4		4	51.12	133.76		23	52.8	479.4
5		7	4.88	134.12		31	52.2	474.5
6	16	9	19.00	134.47	−16	39	46.7	−469.7
7		11	33.47	134.82		47	36.4	464.9
8		13	48.29	135.17	16	55	21.3	459.9
9		16	3.46	135.53	17	3	1.2	454.9
10		18	18.99	135.88		10	36.1	449.9
11		20	34.87	136.24		18	6.0	444.6
12	16	22	51.11	136.59	−17	25	30.6	−439.5
13		25	7.70	136.94		32	50.1	434.0
14		27	24.64	137.29		40	4.1	428.7
15		29	41.93	137.65		47	12.8	423.2
16		31	59.58	137.99	17	54	16.0	417.8
17		34	17.57	138.35	18	1	13.8	412.1
18	16	36	35.92	138.70	−18	8	5.9	−406.4
19		38	54.62	139.05		14	52.3	400.6
20		41	13.67	139.40		21	32.9	394.9
21		43	33.07	139.74		28	7.8	388.9
22		45	52.81	140.10		34	36.7	382.9
23		48	12.91	140.43		40	59.6	376.9
24	16	50	33.34		−18	47	16.5	−376.9

7月4日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	16	50	33.34	140.78	−18	47	16.5	−370.9
1		52	54.12	141.12		53	27.4	364.6
2		55	15.24	141.47	18	59	32.0	358.4
3		57	36.71	141.80	19	5	30.4	351.9
4	16	59	58.51	142.14		11	22.3	345.6
5	17	2	20.65	142.48		17	7.9	339.2
6	17	4	43.13	142.80	−19	22	47.1	−332.6
7		7	5.93	143.14		28	19.7	326.0
8		9	29.07	143.47		33	45.7	319.3
9		11	52.54	143.79		39	5.0	312.5
10		14	16.33	144.11		44	17.5	305.7
11		16	40.44	144.43		49	23.2	298.9
12	17	19	4.87	144.75	−19	54	22.1	−291.9
13		21	29.62	145.07	19	59	14.0	284.9
14		23	54.69	145.38	20	3	58.9	277.8
15		26	20.07	145.68		8	36.7	270.6
16		28	45.75	145.99		13	7.3	263.4
17		31	11.74	146.29		17	30.7	256.2
18	17	33	38.03	146.58	−20	21	46.9	−248.8
19		36	4.61	146.88		25	55.7	241.4
20		38	31.49	147.17		29	57.1	234.0
21		40	58.66	147.44		33	51.1	226.3
22		43	26.10	147.73		37	37.4	218.8
23		45	53.83	148.01		41	16.2	211.2

7月5日

0	17	48	21.84	148.28	−20	44	47.4	−203.5
1		50	50.12	148.54		48	10.9	195.7
2		53	18.66	148.81		51	26.6	187.9
3		55	47.47	149.07		54	34.5	180.1
4	17	58	16.54	149.32	20	57	34.6	172.2
5	18	0	45.86	149.56	21	0	26.8	164.1
6	18	3	15.42	149.81	−21	3	10.9	−156.1
7		5	45.23	150.04		5	47.0	148.1
8		8	15.27	150.28		8	15.1	140.0
9		10	45.55	150.50		10	35.1	131.7
10		13	16.05	150.73		12	46.8	123.6
11		15	46.78	150.94		14	50.4	115.3
12	18	18	17.72	151.15	−21	16	45.7	−107.1
13		20	48.87	151.35		18	32.8	98.6
14		23	20.22	151.55		20	11.4	90.2
15		25	51.77	151.75		21	41.6	81.8
16		28	23.52	151.93		23	3.4	73.4
17		30	55.45	152.10		24	16.8	64.9
18	18	33	27.55	152.29	−21	25	21.7	− 56.4
19		35	59.84	152.44		26	18.1	47.7
20		38	32.28	152.60		27	5.8	39.2
21		41	4.88	152.76		27	45.0	30.6
22		43	37.64	152.91		28	15.6	21.9
23		46	10.55	153.05		28	37.5	13.3

7月6日

0	18	48	43.60	153.19	−21	28	50.8	
1		51	16.79	153.30		28	55.3	− 4.5
2		53	50.09	153.43		28	51.2	+ 4.1
3		56	23.52	153.54		28	38.3	12.9
4	18	58	57.06	153.65		28	16.6	21.7
5	19	1	30.71	153.75		27	46.1	30.5
6	19	4	4.46	153.84	−21	27	6.8	39.3
7		6	38.30	153.92		26	18.7	+ 48.1
8		9	12.22	154.01		25	21.9	56.8
9		11	46.23	154.08		24	16.2	65.7
10		14	20.31	154.14		23	1.7	74.5
11		16	54.45	154.20		21	38.3	83.4
12	19	19	28.65		−21	20	6.1	+ 92.2

7月6日

12	19	19	28.65	154.25	−21	20	6.1	
13		22	2.90	154.29		18	24.9	+ 101.2
14		24	37.19	154.33		16	35.0	109.9
15		27	11.52	154.37		14	36.1	118.9
16		29	45.89	154.38		12	28.5	127.6
17		32	20.27	154.40		10	12.0	136.5
18	19	34	54.67	154.41	−21	7	46.7	145.3
19		37	29.08	154.41		5	12.5	+ 154.2
20		40	3.49	154.42	21	2	29.6	162.9
21		42	37.91	154.39	20	59	37.8	171.8
22		45	12.30	154.38		56	37.2	180.6
23		47	46.68	154.35		53	27.8	189.4
								198.1

7月7日

0	19	50	21.03	154.33	−20	50	9.7	
1		52	55.36	154.28		46	42.8	+ 206.9
2		55	29.64	154.24		43	7.2	215.6
3	19	58	3.88	154.18		39	22.8	224.4
4	20	0	38.06	154.13		35	29.9	232.9
5		3	12.19	154.06		31	28.2	241.7
6	20	5	46.25	154.00	−20	27	18.0	250.2
7		8	20.25	153.91		22	59.2	+ 258.8
8		10	54.16	153.84		18	31.9	267.3
9		13	28.00	153.74		13	55.9	276.0
10		16	1.74	153.65		9	11.6	284.3
11		18	35.39	153.54	20	4	18.8	292.8
12	20	21	8.93	153.45	−19	59	17.6	301.2
13		23	42.38	153.32		54	8.0	+ 309.6
14		26	15.70	153.21		48	50.1	317.9
15		28	48.91	153.08		43	23.9	326.2
16		31	21.99	152.96		37	49.5	334.4
17		33	54.95	152.81		32	6.9	342.6
18	20	36	27.76	152.68	−19	26	16.1	350.8
19		39	0.44	152.53		20	17.2	+ 358.9
20		41	32.97	152.39		14	10.4	366.8
21		44	5.36	152.23		7	55.6	374.8
22		46	37.59	152.07	19	1	32.8	382.8
23		49	9.66	151.91	18	55	2.1	390.7
								398.5

7月8日

0	20	51	41.57	151.74	−18	48	23.6	
1		54	13.31	151.56		41	37.3	+ 406.3
2		56	44.87	151.39		34	43.5	413.8
3	20	59	16.26	151.20		27	42.0	421.5
4	21	1	47.46	151.03		20	32.9	429.1
5		4	18.49	150.83		13	16.2	436.7
6	21	6	49.32	150.64	−18	5	52.1	444.1
7		9	19.96	150.43	17	58	20.7	+ 451.4
8		11	50.39	150.24		50	42.0	458.7
9		14	20.63	150.04		42	56.0	466.0
10		16	50.67	149.84		35	2.8	473.2
11		19	20.51	149.61		27	2.5	480.3
12	21	21	50.12	149.41	−17	18	55.3	487.2
13		24	19.53	149.19		10	41.0	+ 494.3
14		26	48.72	148.97	17	2	19.9	501.1
15		29	17.69	148.74	16	53	52.0	507.9
16		31	46.43	148.53		45	17.4	514.6
17		34	14.96	148.30		36	36.1	521.3
18	21	36	43.26	148.07	−16	27	48.3	527.8
19		39	11.33	147.83		18	53.9	+ 534.4
20		41	39.16	147.62		9	53.2	540.7
21		44	6.78	147.37	16	0	46.0	547.2
22		46	34.15	147.14	15	51	32.7	553.3
23		49	1.29	146.90		42	13.1	559.6
24	21	51	28.19		−15	32	47.5	+ 565.6

7月9日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	21	51	28.19	146.67	−15	32	47.5	+ 571.6
1		53	54.86	146.42		23	15.9	577.6
2		56	21.28	146.18		13	38.3	583.4
3	21	58	47.46	145.93	15	3	54.9	589.2
4	22	1	13.39	145.70	14	54	5.7	594.9
5		3	39.09	145.45		44	10.8	600.4
6	22	6	4.54	145.21	−14	34	10.4	+ 606.0
7		8	29.75	144.96		24	4.4	611.3
8		10	54.71	144.71		13	53.1	616.8
9		13	19.42	144.47	14	3	36.3	621.9
10		15	43.89	144.22	13	53	14.4	627.2
11		18	8.11	143.98		42	47.2	632.1
12	22	20	32.09	143.73	−13	32	15.1	+ 637.2
13		22	55.82	143.48		21	37.9	642.1
14		25	19.30	143.24		10	55.8	646.9
15		27	42.54	142.99	13	0	8.9	651.6
16		30	5.53	142.74	12	49	17.3	656.2
17		32	28.27	142.50		38	21.1	660.8
18	22	34	50.77	142.26	−12	27	20.3	+ 665.2
19		37	13.03	142.02		16	15.1	669.6
20		39	35.05	141.77	12	5	5.5	673.9
21		41	56.82	141.53	11	53	51.6	678.1
22		44	18.35	141.29		42	33.5	682.2
23		46	39.64	141.04		31	11.3	686.2

7月10日

0	22	49	0.68	140.82	−11	19	45.1	
1		51	21.50	140.57	11	8	14.9	+ 690.2
2		53	42.07	140.34	10	56	41.0	693.9
3		56	2.41	140.10		45	3.2	697.8
4	22	58	22.51	139.87		33	21.9	701.3
5	23	0	42.38	139.63		21	36.9	705.0
6	23	3	2.01	139.41	−10	9	48.5	708.4
7		5	21.42	139.19	9	57	56.7	+ 711.8
8		7	40.61	138.96		46	1.5	715.2
9		9	59.57	138.73		34	3.2	718.3
10		12	18.30	138.52		22	1.7	721.5
11		14	36.82	138.29	9	9	57.2	724.5
12	23	16	55.11	138.08	− 8	57	49.7	727.5
13		19	13.19	137.86		45	39.3	+ 730.4
14		21	31.05	137.65		33	26.2	733.1
15		23	48.70	137.43		21	10.4	735.8
16		26	6.13	137.23	8	8	52.0	738.4
17		28	23.36	137.02	7	56	31.0	741.0
18	23	30	40.33	136.82	− 7	44	7.6	743.4
19		32	57.20	136.62		31	41.8	+ 745.8
20		35	13.82	136.42		19	13.8	748.0
21		37	30.24	136.22	7	6	43.6	750.2
22		39	46.46	136.04	6	54	11.4	752.2
23		42	2.50	135.83		41	37.1	754.3
								756.2

7月11日

0	23	44	18.33	135.65	− 6	29	0.9	
1		46	33.98	135.47		16	22.8	+ 758.1
2		48	49.45	135.29	6	3	43.0	759.8
3		51	4.74	135.11	5	51	1.5	761.5
4		53	19.85	134.94		38	18.4	763.1
5		55	34.79	134.75		25	33.8	764.6
6	23	57	49.54	134.59	− 5	12	47.9	765.9
7	0	0	4.13	134.42	5	0	0.5	+ 767.4
8		2	18.55	134.27	4	47	11.9	768.6
9		4	32.82	134.10		34	22.0	769.9
10		6	46.92	133.95		21	31.2	770.8
11		9	0.87	133.78	4	8	39.3	771.9
12	0	11	14.65		− 3	55	46.4	+ 772.9

7月11日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
12	0	11	14.65	133.64	− 3	55	46.4	
13		13	28.29	133.49		42	52.7	+ 773.7
14		15	41.78	133.35		29	58.2	774.5
15		17	55.13	133.20		17	3.0	775.2
16		20	8.33	133.07	3	4	7.2	775.8
17		22	21.40	132.93	2	51	10.8	776.4
18	0	24	34.33	132.80	− 2	38	14.1	776.7
19		26	47.13	132.68		25	16.9	+ 777.2
20		28	59.81	132.55	2	12	19.4	777.5
21		31	12.36	132.43	1	59	21.6	777.8
22		33	24.79	132.31		46	23.7	777.9
23		35	37.10	132.19		33	25.7	778.0
								778.0

7月12日

0	0	37	49.29	132.08	− 1	20	27.7	
1		40	1.37	131.98	1	7	29.7	+ 778.0
2		42	13.35	131.88	0	54	32.0	777.7
3		44	25.23	131.77		41	34.5	777.5
4		46	37.00	131.68		28	37.3	777.2
5		48	48.68	131.57		15	40.4	776.9
6	0	51	0.25	131.49	− 0	2	43.9	776.5
7		53	11.74	131.41	+ 0	10	12.0	+ 775.9
8		55	23.15	131.32		23	7.3	775.3
9		57	34.47	131.24		36	2.0	774.7
10	0	59	45.71	131.17	0	48	55.9	773.9
11	1	1	56.88	131.08	1	1	49.0	773.1
12	1	4	7.96	131.02	+ 1	14	41.2	772.2
13		6	18.98	130.95		27	32.5	+ 771.3
14		8	29.93	130.89		40	22.8	770.3
15		10	40.82	130.82	1	53	12.0	769.2
16		12	51.64	130.78	2	6	0.0	768.0
17		15	2.42	130.72		18	46.9	766.9
18	1	17	13.14	130.67	+ 2	31	32.4	765.5
19		19	23.81	130.62		44	16.5	+ 764.1
20		21	34.43	130.58	2	56	59.2	762.7
21		23	45.01	130.53	3	9	40.5	761.3
22		25	55.54	130.51		22	20.1	759.6
23		28	6.05	130.46		34	58.2	758.1
								756.3

7月13日

0	1	30	16.51	130.44	+ 3	47	34.5	
1		32	26.95	130.41	4	0	9.1	+ 754.6
2		34	37.36	130.38		12	41.8	752.7
3		36	47.74	130.36		25	12.7	750.9
4		38	58.10	130.35		37	41.5	748.8
5		41	8.45	130.33	4	50	8.4	746.9
6	1	43	18.78	130.32	+ 5	2	33.1	744.7
7		45	29.10	130.31		14	55.6	+ 742.5
8		47	39.41	130.31		27	15.9	740.3
9		49	49.72	130.31		39	34.0	738.1
10		52	0.02	130.30	5	51	49.7	735.7
11		54	10.33	130.31	6	4	3.0	733.3
12	1	56	20.63	130.30	+ 6	16	13.8	730.8
13	1	58	30.94	130.31		28	22.1	+ 728.3
14	2	0	41.26	130.32		40	27.7	725.6
15		2	51.60	130.34	6	52	30.7	723.0
16		5	1.95	130.35	7	4	30.9	720.2
17		7	12.32	130.37		16	28.4	717.5
18	2	9	22.70	130.38	+ 7	28	23.0	714.6
19		11	33.12	130.42		40	14.8	+ 711.8
20		13	43.55	130.43	7	52	3.5	708.7
21		15	54.01	130.46	8	3	49.3	705.8
22		18	4.50	130.49		15	31.8	702.5
23		20	15.03	130.53		27	11.3	699.5
24	2	22	25.59	130.56	+ 8	38	47.5	+ 696.2

7 月 14 日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	2	22	25.59	130.60	+ 8	38	47.5	+693.0
1		24	36.19	130.64	8	50	20.5	689.6
2		26	46.83	130.69	9	1	50.1	686.2
3		28	57.52	130.72		13	16.3	682.8
4		31	8.24	130.78		24	39.1	679.4
5		33	19.02	130.83		35	58.5	675.7
6	2	35	29.85	130.88	+ 9	47	14.2	+672.1
7		37	40.73	130.94	9	58	26.3	668.4
8		39	51.67	131.00	10	9	34.7	664.7
9		42	2.67	131.05		20	39.4	660.9
10		44	13.72	131.11		31	40.3	657.2
11		46	24.83	131.17		42	37.5	653.1
12	2	48	36.00	131.24	+10	53	30.6	+649.2
13		50	47.24	131.30	11	4	19.8	645.2
14		52	58.54	131.38		15	5.0	641.2
15		55	9.92	131.43		25	46.2	637.0
16		57	21.35	131.51		36	23.2	632.9
17	2	59	32.86	131.58		46	56.1	628.6
18	3	1	44.44	131.66	+11	57	24.7	+624.4
19		3	56.10	131.74	12	7	49.1	619.9
20		6	7.84	131.81		18	9.0	615.6
21		8	19.65	131.89		28	24.6	611.2
22		10	31.54	131.97		38	35.8	606.7
23		12	43.51	132.04		48	42.5	602.0

7 月 15 日

0	3	14	55.55	132.13	+12	58	44.5	+597.5
1		17	7.68	132.21	13	8	42.0	592.9
2		19	19.89	132.30		18	34.9	588.3
3		21	32.19	132.38		28	23.2	583.4
4		23	44.57	132.48		38	6.6	578.7
5		25	57.05	132.55		47	45.3	573.8
6	3	28	9.60	132.65	+13	57	19.1	+568.9
7		30	22.25	132.73	14	6	48.0	563.9
8		32	34.98	132.82		16	11.9	559.0
9		34	47.80	132.91		25	30.9	554.0
10		37	0.71	133.00		34	44.9	548.9
11		39	13.71	133.10		43	53.8	543.6
12	3	41	26.81	133.18	+14	52	57.4	+538.5
13		43	39.99	133.28	15	1	55.9	533.3
14		45	53.27	133.37		10	49.2	528.1
15		48	6.64	133.46		19	37.3	522.6
16		50	20.10	133.55		28	19.9	517.4
17		52	33.65	133.65		36	57.3	511.9
18	3	54	47.30	133.73	+15	45	29.2	+506.6
19		57	1.03	133.83	15	53	55.8	500.9
20	3	59	14.86	133.92	16	2	16.7	495.5
21	4	1	28.78	134.01		10	32.2	489.8
22		3	42.79	134.10		18	42.0	484.2
23		5	56.89	134.20		26	46.2	478.6

7 月 16 日

0	4	8	11.09	134.28	+16	34	44.8	
1		10	25.37	134.38		42	37.7	+472.9
2		12	39.75	134.47		50	24.8	467.1
3		14	54.22	134.55	16	58	6.1	461.3
4		17	8.77	134.64	17	5	41.6	455.5
5		19	23.41	134.72		13	11.3	449.7
6	4	21	38.13	134.82	+17	20	34.9	443.6
7		23	52.95	134.89		27	52.7	+437.8
8		26	7.84	134.99		35	4.5	431.8
9		28	22.83	135.06		42	10.3	425.8
10		30	37.89	135.15		49	10.0	419.7
11		32	53.04	135.23	17	56	3.7	413.7
12	4	35	8.27		+18	2	51.2	+407.5

7 月 16 日

h 12	4	35	8.27	135.31	+18	2	51.2	+401.4
13		37	23.58	135.38		9	32.6	395.2
14		39	38.96	135.46		16	7.8	388.9
15		41	54.42	135.54		22	36.7	382.7
16		44	9.96	135.61		28	59.4	376.5
17		46	25.57	135.68		35	15.9	370.0
18	4	48	41.25	135.76	+18	41	25.9	+363.8
19		50	57.01	135.81		47	29.7	357.4
20		53	12.82	135.89		53	27.1	350.9
21		55	28.71	135.95	18	59	18.0	344.5
22	4	57	44.66	136.02	19	5	2.5	338.0
23	5	0	0.68	136.07		10	40.5	331.6

7 月 17 日

0	5	2	16.75	136.13	+19	16	12.1	+325.1
1		4	32.88	136.19		21	37.2	318.5
2		6	49.07	136.24		26	55.7	311.9
3		9	5.31	136.30		32	7.6	305.3
4		11	21.61	136.35		37	12.9	298.7
5		13	37.96	136.39		42	11.6	292.0
6	5	15	54.35	136.44	+19	47	3.6	+285.4
7		18	10.79	136.47		51	49.0	278.8
8		20	27.26	136.52	19	56	27.8	272.1
9		22	43.78	136.55	20	0	59.9	265.3
10		25	0.33	136.59		5	25.2	258.6
11		27	16.92	136.62		9	43.8	251.8
12	5	29	33.54	136.65	+20	13	55.6	+245.1
13		31	50.19	136.67		18	0.7	238.2
14		34	6.86	136.70		21	58.9	231.5
15		36	23.56	136.72		25	50.4	224.6
16		38	40.28	136.73		29	35.0	217.8
17		40	57.01	136.75		33	12.8	211.0
18	5	43	13.76	136.77	+20	36	43.8	+204.0
19		45	30.53	136.76		40	7.8	197.2
20		47	47.29	136.78		43	25.0	190.3
21		50	4.07	136.77		46	35.3	183.5
22		52	20.84	136.77		49	38.8	176.6
23		54	37.61	136.77		52	35.4	169.5

7 月 18 日

0	5	56	54.38	136.77	+20	55	24.9	
1	5	59	11.15	136.75	20	58	7.7	+162.8
2	6	1	27.90	136.74	21	0	43.4	155.7
3		3	44.64	136.71		3	12.3	148.9
4		6	1.35	136.70		5	34.1	141.8
5		8	18.05	136.67		7	49.1	135.0
6	6	10	34.72	136.65	+21	9	57.1	128.0
7		12	51.37	136.61		11	58.2	+121.1
8		15	7.98	136.58		13	52.3	114.1
9		17	24.56	136.54		15	39.6	107.3
10		19	41.10	136.50		17	19.8	100.2
11		21	57.60	136.46		18	53.2	93.4
12	6	24	14.06	136.42	+21	20	19.5	86.3
13		26	30.48	136.35		21	39.0	+ 79.5
14		28	46.83	136.30		22	51.4	72.4
15		31	3.13	136.24		23	57.0	65.6
16		33	19.37	136.18		24	55.6	58.6
17		35	35.55	136.11		25	47.5	51.9
18	6	37	51.66	136.05	+21	26	32.3	44.8
19		40	7.71	135.96		27	10.3	+ 38.0
20		42	23.67	135.90		27	41.3	31.0
21		44	39.57	135.81		28	5.5	24.2
22		46	55.38	135.74		28	22.8	17.3
23		49	11.12	135.65		28	33.2	10.4
24	6	51	26.77		+21	28	36.8	+ 3.6

7 月 19 日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	6	51	26.77	135.56	+21	28	36.8	− 3.3
1		53	42.33	135.46		28	33.5	10.0
2		55	57.79	135.37		28	23.5	16.9
3	6	58	13.16	135.27		28	6.6	23.6
4	7	0	28.43	135.17		27	43.0	30.5
5		2	43.60	135.06		27	12.5	37.2
6	7	4	58.66	134.95	+21	26	35.3	− 43.9
7		7	13.61	134.83		25	51.4	50.6
8		9	28.44	134.72		25	0.8	57.4
9		11	43.16	134.60		24	3.4	63.9
10		13	57.76	134.48		22	59.5	70.7
11		16	12.24	134.36		21	48.8	77.3
12	7	18	26.60	134.23	+21	20	31.5	− 84.0
13		20	40.83	134.08		19	7.5	90.5
14		22	54.91	133.96		17	37.0	97.1
15		25	8.87	133.82		15	59.9	103.6
16		27	22.69	133.68		14	16.3	110.1
17		29	36.37	133.53		12	26.2	116.7
18	7	31	49.90	133.40	+21	10	29.5	−123.2
19		34	3.30	133.24		8	26.3	129.5
20		36	16.54	133.09		6	16.8	136.0
21		38	29.63	132.93		4	0.8	142.3
22		40	42.56	132.78	21	1	38.5	148.7
23		42	55.34	132.61	20	59	9.8	155.1

7 月 20 日

0	7	45	7.95	132.45	+20	56	34.7	−161.4
1		47	20.40	132.29		53	53.3	.167.5
2		49	32.69	132.12		51	5.8	173.9
3		51	44.81	131.94		48	11.9	231.5
4		53	56.75	131.79		45	11.9	180.0
5		56	8.54	131.60		42	5.8	186.1
6	7	58	20.14	131.43	+20	38	53.5	192.3
7	8	0	31.57	131.24		35	35.0	−198.5
8		2	42.81	131.07		32	10.6	204.4
9		4	53.88	130.88		28	40.0	210.6
10		7	4.76	130.70		25	3.5	216.5
11		9	15.46	130.50		21	21.0	222.5
12	8	11	25.96	130.33	+20	17	32.6	228.4
13		13	36.29	130.12		13	38.2	−234.4
14		15	46.41	129.94		9	38.1	240.1
15		17	56.35	129.74		5	32.1	246.0
16		20	6.09	129.55	20	1	20.3	251.8
17		22	15.64	129.34	19	57	2.7	257.6
18	8	24	24.98	129.14	+19	52	39.6	263.1
19		26	34.12	128.94		48	10.7	−268.9
20		28	43.06	128.75		43	36.3	274.4
21		30	51.81	128.54		38	56.2	280.1
22		33	0.35	128.33		34	10.6	285.6
23		35	8.68	128.13		29	19.4	291.2

7 月 21 日

0	8	37	16.81	127.93	+19	24	22.9	296.5
1		39	24.74	127.71		19	20.9	−302.0
2		41	32.45	127.51		14	13.5	307.4
3		43	39.96	127.28		9	0.8	312.7
4		45	47.24	127.09	19	3	42.7	318.1
5		47	54.33	126.86	18	58	19.3	323.4
6	8	50	1.19	126.66	+18	52	50.8	328.5
7		52	7.85	126.44		47	17.1	−333.7
8		54	14.29	126.23		41	38.3	338.8
9		56	20.52	126.01		35	54.4	343.9
10	8	58	26.53	125.80		30	5.5	348.9
11	9	0	32.33	125.58		24	11.5	354.0
12	9	2	37.91		+18	18	12.6	−358.9

7 月 21 日

h 12	9	2	37.91	125.37	+18	18	12.6	− 363.9
13		4	43.28	125.14		12	8.7	368.7
14		6	48.42	124.94	18	6	0.0	373.5
15		8	53.36	124.71	17	59	46.5	378.3
16		10	58.07	124.50		53	28.2	383.1
17		13	2.57	124.28		47	5.1	387.8
18	9	15	6.85	124.07	+17	40	37.3	−392.5
19		17	10.92	123.85		34	4.8	397.0
20		19	14.77	123.64		27	27.8	401.6
21		21	18.41	123.41		20	46.2	406.1
22		23	21.82	123.20		14	0.1	410.7
23		25	25.02	122.98		7	9.4	415.0

7 月 22 日

0	9	27	28.00	122.77	+17	0	14.4	
1		29	30.77	122.54	16	53	15.0	−419.4
2		31	33.31	122.34		46	11.2	423.8
3		33	35.65	122.12		39	3.1	428.1
4		35	37.77	121.91		31	50.8	432.3
5		37	39.68	121.68		24	34.2	436.6
6	9	39	41.36	121.49	+16	17	13.5	440.7
7		41	42.85	121.27		9	48.6	−444.9
8		43	44.12	121.06	16	2	19.8	448.8
9		45	45.18	120.84	15	54	46.8	453.0
10		47	46.02	120.65		47	9.9	456.9
11		49	46.67	120.42		39	29.0	460.9
12	9	51	47.09	120.22	+15	31	44.2	464.8
13		53	47.31	120.02		23	55.5	−468.7
14		55	47.33	119.81		16	3.1	472.4
15		57	47.14	119.61		8	6.9	476.2
16	9	59	46.75	119.41	15	0	6.9	480.0
17	10	1	46.16	119.20	14	52	3.2	483.7
18	10	3	45.36	119.01	+14	43	56.0	487.2
19		5	44.37	118.80		35	45.1	−490.9
20		7	43.17	118.61		27	30.6	494.5
21		9	41.78	118.41		19	12.6	498.0
22		11	40.19	118.22		10	51.3	501.3
23		13	38.41	118.02	14	2	26.5	504.8

7 月 23 日

0	10	15	36.43	117.84	+13	53	58.3	508.2
1		17	34.27	117.64		45	26.8	−511.5
2		19	31.91	117.46		36	52.0	514.8
3		21	29.37	117.26		28	13.9	518.1
4		23	26.63	117.08		19	32.6	521.3
5		25	23.71	116.90		10	48.2	524.4
6	10	27	20.61	116.72	+13	2	0.6	527.6
7		29	17.33	116.54	12	53	9.9	−530.7
8		31	13.87	116.37		44	16.3	533.6
9		33	10.24	116.18		35	19.6	536.7
10		35	6.42	116.02		26	20.0	539.6
11		37	2.44	115.84		17	17.4	542.6
12	10	38	58.28	115.68	+12	8	12.1	545.3
13		40	53.96	115.50	11	59	3.8	−548.3
14		42	49.46	115.34		49	52.8	551.0
15		44	44.80	115.18		40	39.0	553.8
16		46	39.98	115.02		31	22.5	556.5
17		48	35.00	114.85		22	3.3	559.2
18	10	50	29.85	114.71	+11	12	41.6	561.7
19		52	24.56	114.54	11	3	17.3	−564.3
20		54	19.10	114.40	10	53	50.4	566.9
21		56	13.50	114.24		44	20.9	569.5
22	10	58	7.74	114.10		34	49.1	571.8
23	11	0	1.84	113.96		25	14.8	574.3
24	11	1	55.80		+10	15	38.1	−576.7

世界時	赤経				赤緯			
	7 月 24 日							
h	h	m	s	s	°	′	″	″
0	11	1	55.80	113.82	+10	15	38.1	−579.0
1		3	49.62	113.67	10	5	59.1	581.3
2		5	43.29	113.54	9	56	17.8	583.7
3		7	36.83	113.40		46	34.1	585.8
4		9	30.23	113.28		36	48.3	588.0
5		11	23.51	113.13		27	0.3	590.2
6	11	13	16.64	113.02	+ 9	17	10.1	−592.3
7		15	9.66	112.89	9	7	17.8	594.3
8		17	2.55	112.78	8	57	23.5	596.4
9		18	55.33	112.65		47	27.1	598.4
10		20	47.98	112.54		37	28.7	600.4
11		22	40.52	112.41		27	28.3	602.3
12	11	24	32.93	112.32	+ 8	17	26.0	−604.2
13		26	25.25	112.20	8	7	21.8	606.0
14		28	17.45	112.10	7	57	15.8	607.8
15		30	9.55	111.99		47	8.0	609.6
16		32	1.54	111.89		36	58.4	611.3
17		33	53.43	111.79		26	47.1	613.1
18	11	35	45.22	111.71	+ 7	16	34.0	−614.8
19		37	36.93	111.61	7	6	19.2	616.3
20		39	28.54	111.52	6	56	2.9	617.9
21		41	20.06	111.44		45	45.0	619.5
22		43	11.50	111.36		35	25.5	621.1
23		45	2.86	111.28		25	4.4	622.4
	7 月 25 日							
0	11	46	54.14	111.21	+ 6	14	42.0	−623.9
1		48	45.35	111.13	6	4	18.1	625.3
2		50	36.48	111.07	5	53	52.8	626.7
3		52	27.55	110.98		43	26.1	628.1
4		54	18.53	110.93		32	58.0	629.5
5		56	9.46	110.87		22	28.5	630.6
6	11	58	0.33	110.82	+ 5	11	57.9	−631.9
7	11	59	51.15	110.75	5	1	26.0	633.0
8	12	1	41.90	110.71	4	50	53.0	634.2
9		3	32.61	110.65		40	18.8	635.4
10		5	23.26	110.61		29	43.4	636.5
11		7	13.87	110.57		19	6.9	637.4
12	12	9	4.44	110.53	+ 4	8	29.5	−638.5
13		10	54.97	110.49	3	57	51.0	639.5
14		12	45.46	110.47		47	11.5	640.5
15		14	35.93	110.43		36	31.0	641.4
16		16	26.36	110.41		25	49.6	642.4
17		18	16.77	110.39		15	7.2	643.1
18	12	20	7.16	110.37	+ 3	4	24.1	−644.0
19		21	57.53	110.35	2	53	40.1	644.7
20		23	47.88	110.35		42	55.4	645.5
21		25	38.23	110.32		32	9.9	646.2
22		27	28.55	110.33		21	23.7	646.9
23		29	18.88	110.32	2	10	36.8	647.5
	7 月 26 日							
0	12	31	9.20	110.33	+ 1	59	49.3	−648.1
1		32	59.53	110.32		49	1.2	648.7
2		34	49.85	110.33		38	12.5	649.2
3		36	40.18	110.35		27	23.3	649.8
4		38	30.53	110.36		16	33.5	650.3
5		40	20.89	110.37	1	5	43.2	650.7
6	12	42	11.26	110.41	+ 0	54	52.5	−651.1
7		44	1.67	110.42		44	1.4	651.4
8		45	52.09	110.45		33	10.0	651.8
9		47	42.54	110.48		22	18.2	652.1
10		49	33.02	110.52		11	26.1	652.4
11		51	23.54	110.55	+ 0	0	33.7	−652.5
12	12	53	14.09		− 0	10	18.8	

世界時	赤経				赤緯			
	7 月 26 日							
h	h	m	s	s	°	′	″	″
12	12	53	14.09	110.60	− 0	10	18.8	−652.8
13		55	4.69	110.64		21	11.6	652.9
14		56	55.33	110.69		32	4.5	653.0
15	12	58	46.02	110.75		42	57.5	653.2
16	13	0	36.77	110.80	0	53	50.7	653.3
17		2	27.57	110.85	1	4	44.0	653.2
18	13	4	18.42	110.93	− 1	15	37.2	−653.2
19		6	9.35	110.99		26	30.4	653.2
20		8	0.34	111.06		37	23.6	653.1
21		9	51.40	111.13		48	16.7	652.9
22		11	42.53	111.22	1	59	9.6	652.8
23		13	33.75	111.29	2	10	2.4	652.6
	7 月 27 日							
0	13	15	25.04	111.38	− 2	20	55.0	−652.4
1		17	16.42	111.46		31	47.4	652.1
2		19	7.88	111.55		42	39.5	651.9
3		20	59.43	111.65	2	53	31.4	651.4
4		22	51.08	111.75	3	4	22.8	651.1
5		24	42.83	111.85		15	13.9	650.7
6	13	26	34.68	111.95	− 3	26	4.6	−650.3
7		28	26.63	112.07		36	54.9	649.8
8		30	18.70	112.18		47	44.7	649.3
9		32	10.88	112.30	3	58	34.0	648.6
10		34	3.18	112.42	4	9	22.6	648.1
11		35	55.60	112.54		20	10.7	647.4
12	13	37	48.14	112.67	− 4	30	58.1	−646.9
13		39	40.81	112.80		41	45.0	646.0
14		41	33.61	112.94	4	52	31.0	645.3
15		43	26.55	113.07	5	3	16.3	644.5
16		45	19.62	113.22		14	0.8	643.7
17		47	12.84	113.35		24	44.5	642.8
18	13	49	6.19	113.51	− 5	35	27.3	−642.0
19		50	59.70	113.66		46	9.3	641.0
20		52	53.36	113.82	5	56	50.3	640.0
21		54	47.18	113.98	6	7	30.3	638.9
22		56	41.16	114.15		18	9.2	638.0
23	13	58	35.31	114.31		28	47.2	636.8
	7 月 28 日							
0	14	0	29.62	114.48	− 6	39	24.0	−635.7
1		2	24.10	114.66	6	49	59.7	634.4
2		4	18.76	114.84	7	0	34.1	633.2
3		6	13.60	115.01		11	7.3	632.0
4		8	8.61	115.21		21	39.3	630.6
5		10	3.82	115.38		32	9.9	629.2
6	14	11	59.20	115.58	− 7	42	39.1	−627.9
7		13	54.78	115.78	7	53	7.0	626.4
8		15	50.56	115.98	8	3	33.4	625.0
9		17	46.54	116.18		13	58.4	623.3
10		19	42.72	116.39		24	21.7	621.8
11		21	39.11	116.60		34	43.5	620.2
12	14	23	35.71	116.81	− 8	45	3.7	−618.6
13		25	32.52	117.03	8	55	22.3	616.7
14		27	29.55	117.26	9	5	39.0	615.0
15		29	26.81	117.47		15	54.0	613.2
16		31	24.28	117.70		26	7.2	611.5
17		33	21.98	117.93		36	18.7	609.4
18	14	35	19.91	118.17	− 9	46	28.1	−607.5
19		37	18.08	118.41	9	56	35.6	605.5
20		39	16.49	118.65	10	6	41.1	603.5
21		41	15.14	118.89		16	44.6	601.2
22		43	14.03	119.14		26	45.8	599.2
23		45	13.17	119.39		36	45.0	−597.0
24	14	47	12.56		−10	46	42.0	

世界時	赤経				赤緯			
	7 月 29 日							
h	h	m	s	s	°	′	″	″
0	14	47	12.56	119.65	−10	46	42.0	−594.8
1		49	12.21	119.90	10	56	36.8	592.4
2		51	12.11	120.17	11	6	29.2	590.1
3		53	12.28	120.43		16	19.3	587.7
4		55	12.71	120.70		26	7.0	585.3
5		57	13.41	120.97		35	52.3	582.6
6	14	59	14.38	121.25	−11	45	34.9	−580.2
7	15	1	15.63	121.52	11	55	15.1	577.5
8		3	17.15	121.81	12	4	52.6	574.9
9		5	18.96	122.08		14	27.5	572.1
10		7	21.04	122.38		23	59.6	569.4
11		9	23.42	122.65		33	29.0	566.6
12	15	11	26.07	122.95	−12	42	55.6	−563.8
13		13	29.02	123.25	12	52	19.4	560.7
14		15	32.27	123.55	13	1	40.1	557.7
15		17	35.82	123.85		10	57.8	554.7
16		19	39.67	124.16		20	12.5	551.6
17		21	43.83	124.45		29	24.1	548.4
18	15	23	48.28	124.77	−13	38	32.5	−545.2
19		25	53.05	125.08		47	37.7	541.8
20		27	58.13	125.39	13	56	39.5	538.5
21		30	3.52	125.71	14	5	38.0	535.1
22		32	9.23	126.03		14	33.1	531.7
23		34	15.26	126.35		23	24.8	528.1
	7 月 30 日							
0	15	36	21.61	126.68	−14	32	12.9	−524.5
1		38	28.29	127.00		40	57.4	520.9
2		40	35.29	127.33		49	38.3	517.2
3		42	42.62	127.66	14	58	15.5	513.4
4		44	50.28	128.00	15	6	48.9	509.6
5		46	58.23	128.33		15	18.5	505.6
6	15	49	6.61	128.68	−15	23	44.1	−501.7
7		51	15.29	129.01		32	5.8	497.6
8		53	24.30	129.36		40	23.4	493.6
9		55	33.66	129.69		48	37.0	489.4
10		57	43.35	130.05	15	56	46.4	485.3
11	15	59	53.40	130.38	16	4	51.7	480.8
12	16	2	3.78	130.74	−16	12	52.5	−476.5
13		4	14.52	131.09		20	49.0	472.1
14		6	25.61	131.44		28	41.1	467.7
15		8	37.05	131.79		36	28.8	463.0
16		10	48.84	132.14		44	11.8	458.5
17		13	0.98	132.50		51	50.3	453.7
18	16	15	13.48	132.86	−16	59	24.0	−449.0
19		17	26.34	133.22	17	6	53.0	444.1
20		19	39.56	133.57		14	17.1	439.3
21		21	53.13	133.93		21	36.4	434.3
22		24	7.06	134.30		28	50.7	429.3
23		26	21.36	134.65		36	0.0	424.1
	7 月 31 日							
0	16	28	36.01	135.02	−17	43	4.1	−419.0
1		30	51.03	135.38		50	3.1	413.8
2		33	6.41	135.74	17	56	56.9	408.5
3		35	22.15	136.10	18	3	45.4	403.0
4		37	38.25	136.47		10	28.4	397.7
5		39	54.72	136.83		17	6.1	392.0
6	16	42	11.55	137.19	−18	23	38.1	−386.5
7		44	28.74	137.55		30	4.6	380.8
8		46	46.29	137.92		36	25.4	375.1
9		49	4.21	138.27		42	40.5	369.3
10		51	22.48	138.64		48	49.8	363.5
11		53	41.12	139.00	18	54	53.3	−357.4
12	16	56	0.12		−19	0	50.7	

世界時	赤経				赤緯			
	7 月 31 日							
h	h	m	s	s	°	′	″	″
12	16	56	0.12	139.36	−19	0	50.7	−351.4
13	16	58	19.48	139.72		6	42.1	345.4
14	17	0	39.20	140.08		12	27.5	339.3
15		2	59.28	140.44		18	6.8	333.0
16		5	19.72	140.79		23	39.8	326.7
17		7	40.51	141.14		29	6.5	320.3
18	17	10	1.65	141.50	−19	34	26.8	−314.0
19		12	23.15	141.85		39	40.8	307.3
20		14	45.00	142.20		44	48.1	300.8
21		17	7.20	142.54		49	48.9	294.2
22		19	29.74	142.90		54	43.1	287.5
23		21	52.64	143.24	−19	59	30.6	280.7
	8 月 1 日							
0	17	24	15.88	143.58	−20	4	11.3	−273.9
1		26	39.46	143.92		8	45.2	266.9
2		29	3.38	144.26		13	12.1	260.0
3		31	27.64	144.60		17	32.1	252.9
4		33	52.24	144.94		21	45.0	245.8
5		36	17.18	145.25		25	50.8	238.6
6	17	38	42.43	145.59	−20	29	49.4	−231.4
7		41	8.02	145.90		33	40.8	224.0
8		43	33.92	146.23		37	24.8	216.7
9		46	0.15	146.54		41	1.5	209.3
10		48	26.69	146.85		44	30.8	201.8
11		50	53.54	147.17		47	52.6	194.2
12	17	53	20.71	147.48	−20	51	6.8	−186.6
13		55	48.19	147.77		54	13.4	178.9
14	17	58	15.96	148.07	20	57	12.3	171.2
15	18	0	44.03	148.37	21	0	3.5	163.4
16		3	12.40	148.66		2	46.9	155.6
17		5	41.06	148.93		5	22.5	147.6
18	18	8	9.99	149.22	−21	7	50.1	−139.7
19		10	39.21	149.50		10	9.8	131.6
20		13	8.71	149.77		12	21.4	123.7
21		15	38.48	150.03		14	25.1	115.4
22		18	8.51	150.30		16	20.5	107.3
23		20	38.81	150.55		18	7.8	99.0
	8 月 2 日							
0	18	23	9.36	150.81	−21	19	46.8	− 90.9
1		25	40.17	151.05		21	17.7	82.4
2		28	11.22	151.29		22	40.1	74.1
3		30	42.51	151.53		23	54.2	65.6
4		33	14.04	151.76		24	59.8	57.2
5		35	45.80	151.98		25	57.0	48.8
6	18	38	17.78	152.19	−21	26	45.8	− 40.2
7		40	49.97	152.41		27	26.0	31.6
8		43	22.38	152.62		27	57.6	23.1
9		45	55.00	152.82		28	20.7	14.4
10		48	27.82	153.02		28	35.1	− 5.8
11		51	0.84	153.19		28	40.9	+ 3.1
12	18	53	34.03	153.38	−21	28	37.8	+ 11.8
13		56	7.41	153.56		28	26.0	20.5
14	18	58	40.97	153.73		28	5.5	29.4
15	19	1	14.70	153.89		27	36.1	38.2
16		3	48.59	154.05		26	57.9	47.1
17		6	22.64	154.19		26	10.8	55.8
18	19	8	56.83	154.34	−21	25	15.0	+ 64.8
19		11	31.17	154.47		24	10.2	73.8
20		14	5.64	154.61		22	56.4	82.7
21		16	40.25	154.72		21	33.7	91.6
22		19	14.97	154.84		20	2.1	100.6
23		21	49.81	154.94		18	21.5	+109.6
24	19	24	24.75		−21	16	31.9	

世界時	赤経				赤緯			
8月3日								
h	h	m	s	s	°	′	″	″
0	19	24	24.75	155.05	−21	16	31.9	+118.6
1		26	59.80	155.15		14	33.3	127.6
2		29	34.95	155.24		12	25.7	136.6
3		32	10.19	155.31		10	9.1	145.6
4		34	45.50	155.39		7	43.5	154.6
5		37	20.89	155.45		5	8.9	163.6
6	19	39	56.34	155.52	−21	2	25.3	+172.6
7		42	31.86	155.57	20	59	32.7	181.6
8		45	7.43	155.62		56	31.1	190.7
9		47	43.05	155.65		53	20.4	199.6
10		50	18.70	155.69		50	0.8	208.7
11		52	54.39	155.71		46	32.1	217.6
12	19	55	30.10	155.73	−20	42	54.5	+226.6
13	19	58	5.83	155.75		39	7.9	235.5
14	20	0	41.58	155.75		35	12.4	244.4
15		3	17.33	155.74		31	8.0	253.4
16		5	53.07	155.74		26	54.6	262.3
17		8	28.81	155.71		22	32.3	271.1
18	20	11	4.52	155.69	−20	18	1.2	+280.0
19		13	40.21	155.67		13	21.2	288.8
20		16	15.88	155.64		8	32.4	297.6
21		18	51.52	155.59	20	3	34.8	306.3
22		21	27.11	155.55	19	58	28.5	315.2
23		24	2.66	155.48		53	13.3	323.7
8月4日								
0	20	26	38.14	155.43	−19	47	49.6	+332.4
1		29	13.57	155.36		42	17.2	341.0
2		31	48.93	155.29		36	36.2	349.6
3		34	24.22	155.20		30	46.6	358.2
4		36	59.42	155.13		24	48.4	366.7
5		39	34.55	155.02		18	41.7	375.1
6	20	42	9.57	154.94	−19	12	26.6	+383.5
7		44	44.51	154.83	19	6	3.1	391.8
8		47	19.34	154.73	18	59	31.3	400.2
9		49	54.07	154.61		52	51.1	408.3
10		52	28.68	154.49		46	2.8	416.5
11		55	3.17	154.37		39	6.3	424.7
12	20	57	37.54	154.24	−18	32	1.6	+432.8
13	21	0	11.78	154.10		24	48.8	440.7
14		2	45.88	153.97		17	28.1	448.7
15		5	19.85	153.82		9	59.4	456.7
16		7	53.67	153.68	18	2	22.7	464.5
17		10	27.35	153.51	17	54	38.2	472.2
18	21	13	0.86	153.36	−17	46	46.0	+479.9
19		15	34.22	153.20		38	46.1	487.4
20		18	7.42	153.04		30	38.7	495.1
21		20	40.46	152.86		22	23.6	502.5
22		23	13.32	152.69		14	1.1	509.9
23		25	46.01	152.51	17	5	31.2	517.3
8月5日								
0	21	28	18.52	152.33	−16	56	53.9	+524.5
1		30	50.85	152.14		48	9.4	531.7
2		33	22.99	151.96		39	17.7	538.8
3		35	54.95	151.75		30	18.9	545.8
4		38	26.70	151.57		21	13.1	552.8
5		40	58.27	151.37		12	0.3	559.6
6	21	43	29.64	151.16	−16	2	40.7	+566.4
7		46	0.80	150.96	15	53	14.3	572.9
8		48	31.76	150.75		43	41.4	579.6
9		51	2.51	150.55		34	1.8	586.2
10		53	33.06	150.34		24	15.6	592.6
11		56	3.40	150.11		14	23.0	+599.0
12	21	58	33.51		−15	4	24.0	

世界時	赤経				赤緯			
8月5日								
h	h	m	s	s	°	′	″	″
12	21	58	33.51	149.91	−15	4	24.0	+605.2
13	22	1	3.42	149.68	14	54	18.8	611.3
14		3	33.10	149.46		44	7.5	617.5
15		6	2.56	149.24		33	50.0	623.4
16		8	31.80	149.02		23	26.6	629.3
17		11	0.82	148.80		12	57.3	635.0
18	22	13	29.62	148.56	−14	2	22.3	+640.8
19		15	58.18	148.34	13	51	41.5	646.3
20		18	26.52	148.11		40	55.2	651.9
21		20	54.63	147.88		30	3.3	657.3
22		23	22.51	147.66		19	6.0	662.6
23		25	50.17	147.41	13	8	3.4	667.8
8月6日								
0	22	28	17.58	147.19	−12	56	55.6	+673.0
1		30	44.77	146.94		45	42.6	677.9
2		33	11.71	146.73		34	24.7	682.9
3		35	38.44	146.48		23	1.8	687.7
4		38	4.92	146.25		11	34.1	692.5
5		40	31.17	146.01	12	0	1.6	697.0
6	22	42	57.18	145.79	−11	48	24.6	+701.6
7		45	22.97	145.55		36	43.0	706.0
8		47	48.52	145.32		24	57.0	710.4
9		50	13.84	145.08		13	6.6	714.6
10		52	38.92	144.86	11	1	12.0	718.7
11		55	3.78	144.61	10	49	13.3	722.7
12	22	57	28.39	144.39	−10	37	10.6	+726.7
13	22	59	52.78	144.15		25	3.9	730.4
14	23	2	16.93	143.93		12	53.5	734.2
15		4	40.86	143.68	10	0	39.3	737.8
16		7	4.54	143.46	9	48	21.5	741.4
17		9	28.00	143.24		36	0.1	744.8
18	23	11	51.24	143.02	− 9	23	35.3	+748.1
19		14	14.26	142.79		11	7.2	751.2
20		16	37.05	142.56	8	58	36.0	754.5
21		18	59.61	142.34		46	1.5	757.4
22		21	21.95	142.13		33	24.1	760.4
23		23	44.08	141.90		20	43.7	763.2
8月7日								
0	23	26	5.98	141.69	− 8	8	0.5	+765.9
1		28	27.67	141.46	7	55	14.6	768.4
2		30	49.13	141.26		42	26.2	771.1
3		33	10.39	141.04		29	35.1	773.4
4		35	31.43	140.83		16	41.7	775.8
5		37	52.26	140.63	7	3	43.9	777.9
6	23	40	12.89	140.42	− 6	50	48.0	+780.1
7		42	33.31	140.21		37	47.9	782.1
8		44	53.52	140.02		24	45.8	784.1
9		47	13.54	139.81	6	11	41.7	785.8
10		49	33.35	139.62	5	58	35.9	787.6
11		51	52.97	139.41		45	28.3	789.2
12	23	54	12.38	139.23	− 5	32	19.1	+790.8
13		56	31.61	139.03		19	8.3	792.1
14	23	58	50.64	138.85	5	5	56.2	793.6
15	0	1	9.49	138.66	4	52	42.6	794.7
16		3	28.15	138.48		39	27.9	796.0
17		5	46.63	138.30		26	11.9	796.9
18	0	8	4.93	138.13	− 4	12	55.0	+798.0
19		10	23.06	137.94	3	59	37.0	798.8
20		12	41.00	137.78		46	18.2	799.7
21		14	58.78	137.59		32	58.5	800.2
22		17	16.37	137.44		19	38.3	800.8
23		19	33.81	137.27	3	6	17.5	+801.4
24	0	21	51.08		− 2	52	56.1	

世界時	赤経				赤緯			
8月8日								
h	h	m	s	s	°	′	″	″
0	0	21	51.08	137.12	− 2	52	56.1	+801.8
1		24	8.20	136.95		39	34.3	802.1
2		26	25.15	136.80		26	12.2	802.3
3		28	41.95	136.64	2	12	49.9	802.5
4		30	58.59	136.50	1	59	27.4	802.5
5		33	15.09	136.35		46	4.9	802.5
6	0	35	31.44	136.20	− 1	32	42.4	+802.4
7		37	47.64	136.06		19	20.0	802.1
8		40	3.70	135.93	1	5	57.9	801.9
9		42	19.63	135.79	0	52	36.0	801.4
10		44	35.42	135.66		39	14.6	801.0
11		46	51.08	135.53		25	53.6	800.4
12	0	49	6.61	135.41	− 0	12	33.2	+799.8
13		51	22.02	135.28	+ 0	0	46.6	799.0
14		53	37.30	135.17		14	5.6	798.2
15		55	52.47	135.04		27	23.8	797.4
16	0	58	7.51	134.94		40	41.2	796.4
17	1	0	22.45	134.81	0	53	57.6	795.3
18	1	2	37.26	134.72	+ 1	7	12.9	+794.2
19		4	51.98	134.61		20	27.1	792.9
20		7	6.59	134.51		33	40.0	791.7
21		9	21.10	134.41	1	46	51.7	790.3
22		11	35.51	134.32	2	0	2.0	788.9
23		13	49.83	134.22		13	10.9	787.2
8月9日								
0	1	16	4.05	134.14	+ 2	26	18.1	+785.7
1		18	18.19	134.05		39	23.8	784.0
2		20	32.24	133.97	2	52	27.8	782.3
3		22	46.21	133.88	3	5	30.1	780.5
4		25	0.09	133.81		18	30.6	778.6
5		27	13.90	133.73		31	29.2	776.5
6	1	29	27.63	133.67	+ 3	44	25.7	+774.5
7		31	41.30	133.60	3	57	20.2	772.3
8		33	54.90	133.54	4	10	12.5	770.2
9		36	8.44	133.47		23	2.7	767.9
10		38	21.91	133.42		35	50.6	765.5
11		40	35.33	133.35	4	48	36.1	763.1
12	1	42	48.68	133.31	+ 5	1	19.2	+760.7
13		45	1.99	133.24		13	59.9	758.0
14		47	15.23	133.21		26	37.9	755.4
15		49	28.44	133.16		39	13.3	752.8
16		51	41.60	133.12	5	51	46.1	750.0
17		53	54.72	133.08	6	4	16.1	747.2
18	1	56	7.80	133.05	+ 6	16	43.3	+744.4
19	1	58	20.85	133.01		29	7.7	741.3
20	2	0	33.86	132.98		41	29.0	738.4
21		2	46.84	132.96	6	53	47.4	735.1
22		4	59.80	132.93	7	6	2.5	732.1
23		7	12.73	132.90		18	14.6	728.8
8月10日								
0	2	9	25.63	132.89	+ 7	30	23.4	+725.6
1		11	38.52	132.86		42	29.0	722.2
2		13	51.38	132.86	7	54	31.2	718.8
3		16	4.24	132.83	8	6	30.0	715.3
4		18	17.07	132.82		18	25.3	711.9
5		20	29.89	132.82		30	17.2	708.3
6	2	22	42.71	132.82	+ 8	42	5.5	+704.7
7		24	55.53	132.81	8	53	50.2	700.8
8		27	8.34	132.81	9	5	31.0	697.1
9		29	21.15	132.81		17	8.1	693.3
10		31	33.96	132.82		28	41.4	689.5
11		33	46.78	132.82		40	10.9	+685.4
12	2	35	59.60		+ 9	51	36.3	

世界時	赤経				赤緯			
8月10日								
h	h	m	s	s	°	′	″	″
12	2	35	59.60	132.84	+ 9	51	36.3	+681.5
13		38	12.44	132.83	10	2	57.8	677.5
14		40	25.27	132.85		14	15.3	673.4
15		42	38.12	132.86		25	28.7	669.1
16		44	50.98	132.88		36	37.8	665.0
17		47	3.86	132.90		47	42.8	660.7
18	2	49	16.76	132.92	+10	58	43.5	+656.4
19		51	29.68	132.94	11	9	39.9	651.9
20		53	42.62	132.96		20	31.8	647.6
21		55	55.58	132.98		31	19.4	643.2
22	2	58	8.56	133.02		42	2.6	638.6
23	3	0	21.58	133.04	11	52	41.2	634.0
8月11日								
0	3	2	34.62	133.07	+12	3	15.2	+629.3
1		4	47.69	133.10		13	44.5	624.7
2		7	0.79	133.14		24	9.2	620.0
3		9	13.93	133.17		34	29.2	615.2
4		11	27.10	133.20		44	44.4	610.4
5		13	40.30	133.24	12	54	54.8	605.6
6	3	15	53.54	133.28	+13	5	0.4	+600.6
7		18	6.82	133.32		15	1.0	595.6
8		20	20.14	133.36		24	56.6	590.6
9		22	33.50	133.40		34	47.2	585.6
10		24	46.90	133.45		44	32.8	580.5
11		27	0.35	133.48	13	54	13.3	575.2
12	3	29	13.83	133.54	+14	3	48.5	+570.2
13		31	27.37	133.57		13	18.7	564.9
14		33	40.94	133.63		22	43.6	559.6
15		35	54.57	133.66		32	3.2	554.2
16		38	8.23	133.72		41	17.4	549.0
17		40	21.95	133.76		50	26.4	543.5
18	3	42	35.71	133.81	+14	59	29.9	+538.1
19		44	49.52	133.86	15	8	28.0	532.5
20		47	3.38	133.91		17	20.5	527.1
21		49	17.29	133.97		26	7.6	521.4
22		51	31.26	134.01		34	49.0	515.9
23		53	45.27	134.06		43	24.9	510.3
8月12日								
0	3	55	59.33	134.11	+15	51	55.2	+504.7
1	3	58	13.44	134.17	16	0	19.9	498.8
2	4	0	27.61	134.21		8	38.7	493.1
3		2	41.82	134.27		16	51.8	487.3
4		4	56.09	134.31		24	59.1	481.5
5		7	10.40	134.37		33	0.6	475.7
6	4	9	24.77	134.42	+16	40	56.3	+469.8
7		11	39.19	134.47		48	46.1	463.7
8		13	53.66	134.52	16	56	29.8	457.9
9		16	8.18	134.56	17	4	7.7	451.9
10		18	22.74	134.62		11	39.6	445.9
11		20	37.36	134.66		19	5.5	439.8
12	4	22	52.02	134.72	+17	26	25.3	+433.8
13		25	6.74	134.75		33	39.1	427.5
14		27	21.49	134.81		40	46.6	421.5
15		29	36.30	134.85		47	48.1	415.3
16		31	51.15	134.91	17	54	43.4	409.0
17		34	6.06	134.94	18	1	32.4	402.8
18	4	36	21.00	134.99	+18	8	15.2	+396.6
19		38	35.99	135.03		14	51.8	390.3
20		40	51.02	135.07		21	22.1	384.1
21		43	6.09	135.11		27	46.2	377.6
22		45	21.20	135.15		34	3.8	371.3
23		47	36.35	135.19		40	15.1	+364.9
24	4	49	51.54		+18	46	20.0	

世界時	赤経				赤緯			
	8 月 13 日							
h	h	m	s	s	°	′	″	″
0	4	49	51.54	135.23	+18	46	20.0	+358.5
1		52	6.77	135.26		52	18.5	352.0
2		54	22.03	135.29	18	58	10.5	345.6
3		56	37.32	135.33	19	3	56.1	339.1
4	4	58	52.65	135.36		9	35.2	332.7
5	5	1	8.01	135.40		15	7.9	326.0
6	5	3	23.41	135.42	+19	20	33.9	+319.6
7		5	38.83	135.44		25	53.5	312.9
8		7	54.27	135.47		31	6.4	306.4
9		10	9.74	135.49		36	12.8	299.8
10		12	25.23	135.51		41	12.6	293.2
11		14	40.74	135.53		46	5.8	286.6
12	5	16	56.27	135.56	+19	50	52.4	+279.9
13		19	11.83	135.57	19	55	32.3	273.2
14		21	27.40	135.58	20	0	5.5	266.5
15		23	42.98	135.59		4	32.0	259.8
16		25	58.57	135.61		8	51.8	253.2
17		28	14.18	135.60		13	5.0	246.4
18	5	30	29.78	135.62	+20	17	11.4	+239.7
19		32	45.40	135.62		21	11.1	232.9
20		35	1.02	135.62		25	4.0	226.3
21		37	16.64	135.61		28	50.3	219.4
22		39	32.25	135.62		32	29.7	212.7
23		41	47.87	135.61		36	2.4	205.8
	8 月 14 日							
0	5	44	3.48	135.61	+20	39	28.2	+199.1
1		46	19.09	135.58		42	47.3	192.3
2		48	34.67	135.58		45	59.6	185.5
3		50	50.25	135.56		49	5.1	178.7
4		53	5.81	135.55		52	3.8	171.9
5		55	21.36	135.52		54	55.7	165.1
6	5	57	36.88	135.49	+20	57	40.8	+158.2
7	5	59	52.37	135.47	21	0	19.0	151.4
8	6	2	7.84	135.45		2	50.4	144.6
9		4	23.29	135.40		5	15.0	137.8
10		6	38.69	135.38		7	32.8	130.9
11		8	54.07	135.34		9	43.7	124.0
12	6	11	9.41	135.31	+21	11	47.7	+117.3
13		13	24.72	135.26		13	45.0	110.4
14		15	39.98	135.21		15	35.4	103.6
15		17	55.19	135.17		17	19.0	96.7
16		20	10.36	135.12		18	55.7	90.0
17		22	25.48	135.06		20	25.7	83.1
18	6	24	40.54	135.01	+21	21	48.8	+ 76.3
19		26	55.55	134.94		23	5.1	69.5
20		29	10.49	134.89		24	14.6	62.7
21		31	25.38	134.82		25	17.3	55.9
22		33	40.20	134.75		26	13.2	49.2
23		35	54.95	134.69		27	2.4	42.3
	8 月 15 日							
0	6	38	9.64	134.62	+21	27	44.7	+ 35.6
1		40	24.26	134.54		28	20.3	28.8
2		42	38.80	134.46		28	49.1	22.1
3		44	53.26	134.37		29	11.2	15.2
4		47	7.63	134.30		29	26.4	8.7
5		49	21.93	134.21		29	35.1	+ 1.8
6	6	51	36.14	134.12	+21	29	36.9	− 4.9
7		53	50.26	134.02		29	32.0	11.5
8		56	4.28	133.93		29	20.5	18.2
9	6	58	18.21	133.83		29	2.3	24.8
10	7	0	32.04	133.74		28	37.5	31.6
11		2	45.78	133.63		28	5.9	− 38.1
12	7	4	59.41		+21	27	27.8	

世界時	赤経				赤緯			
	8 月 15 日							
h	h	m	s	s	°	′	″	″
12	7	4	59.41	133.53	+21	27	27.8	− 44.8
13		7	12.94	133.41		26	43.0	51.3
14		9	26.35	133.31		25	51.7	57.9
15		11	39.66	133.18		24	53.8	64.4
16		13	52.84	133.07		23	49.4	71.0
17		16	5.91	132.95		22	38.4	77.5
18	7	18	18.86	132.83	+21	21	20.9	− 84.0
19		20	31.69	132.71		19	56.9	90.4
20		22	44.40	132.59		18	26.5	96.9
21		24	56.99	132.44		16	49.6	103.3
22		27	9.43	132.32		15	6.3	109.8
23		29	21.75	132.18		13	16.5	116.1
	8 月 16 日							
0	7	31	33.93	132.06	+21	11	20.4	−122.5
1		33	45.99	131.91		9	17.9	128.8
2		35	57.90	131.77		7	9.1	135.2
3		38	9.67	131.62		4	53.9	141.3
4		40	21.29	131.47		2	32.6	147.7
5		42	32.76	131.33	21	0	4.9	153.8
6	7	44	44.09	131.19	+20	57	31.1	−160.1
7		46	55.28	131.02		54	51.0	166.3
8		49	6.30	130.88		52	4.7	172.4
9		51	17.18	130.71		49	12.3	178.5
10		53	27.89	130.56		46	13.8	184.7
11		55	38.45	130.39		43	9.1	190.6
12	7	57	48.84	130.23	+20	39	58.5	−196.7
13	7	59	59.07	130.07		36	41.8	202.7
14	8	2	9.14	129.90		33	19.1	208.6
15		4	19.04	129.73		29	50.5	214.6
16		6	28.77	129.57		26	15.9	220.5
17		8	38.34	129.39		22	35.4	226.3
18	8	10	47.73	129.22	+20	18	49.1	−232.1
19		12	56.95	129.04		14	57.0	237.9
20		15	5.99	128.87		10	59.1	243.7
21		17	14.86	128.68		6	55.4	249.5
22		19	23.54	128.51	20	2	45.9	255.2
23		21	32.05	128.32	19	58	30.7	260.7
	8 月 17 日							
0	8	23	40.37	128.15	+19	54	10.0	−266.4
1		25	48.52	127.96		49	43.6	272.0
2		27	56.48	127.77		45	11.6	277.5
3		30	4.25	127.59		40	34.1	283.1
4		32	11.84	127.41		35	51.0	288.6
5		34	19.25	127.22		31	2.4	293.9
6	8	36	26.47	127.03	+19	26	8.5	−299.4
7		38	33.50	126.83		21	9.1	304.8
8		40	40.33	126.65		16	4.3	310.1
9		42	46.98	126.44		10	54.2	315.3
10		44	53.42	126.26		5	38.9	320.6
11		46	59.68	126.06	19	0	18.3	325.8
12	8	49	5.74	125.87	+18	54	52.5	−331.0
13		51	11.61	125.67		49	21.5	336.2
14		53	17.28	125.48		43	45.3	341.3
15		55	22.76	125.27		38	4.0	346.2
16		57	28.03	125.09		32	17.8	351.3
17	8	59	33.12	124.89		26	26.5	356.2
18	9	1	38.01	124.69	+18	20	30.3	−361.2
19		3	42.70	124.48		14	29.1	366.0
20		5	47.18	124.30		8	23.1	370.9
21		7	51.48	124.09	18	2	12.2	375.7
22		9	55.57	123.89	17	55	56.5	380.5
23		11	59.46	123.69		49	36.0	385.2
24	9	14	3.15		+17	43	10.8	

世界時	赤経				赤緯			
	8 月 18 日							
h	h	m	s	s	°	′	″	″
0	9	14	3.15	123.49	+17	43	10.8	−389.9
1		16	6.64	123.29		36	40.9	394.5
2		18	9.93	123.10		30	6.4	399.1
3		20	13.03	122.89		23	27.3	403.7
4		22	15.92	122.70		16	43.6	408.3
5		24	18.62	122.49		9	55.3	412.7
6	9	26	21.11	122.30	+17	3	2.6	−417.1
7		28	23.41	122.10	16	56	5.5	421.5
8		30	25.51	121.90		49	4.0	425.8
9		32	27.41	121.70		41	58.2	430.2
10		34	29.11	121.51		34	48.0	434.5
11		36	30.62	121.30		27	33.5	438.6
12	9	38	31.92	121.11	+16	20	14.9	−442.8
13		40	33.03	120.91		12	52.1	446.9
14		42	33.91	120.72	16	5	25.2	451.1
15		44	34.66	120.51	15	57	54.1	455.1
16		46	35.17	120.33		50	19.0	459.1
17		48	35.50	120.13		42	39.9	463.0
18	9	50	35.63	119.95	+15	34	56.9	−467.0
19		52	35.58	119.74		27	9.9	470.8
20		54	35.32	119.56		19	19.1	474.7
21		56	34.88	119.36		11	24.4	478.4
22	9	58	34.24	119.17	15	3	26.0	482.2
23	10	0	33.41	118.99	14	55	23.8	485.9
	8 月 19 日							
0	10	2	32.40	118.80	+14	47	17.9	−489.6
1		4	31.20	118.61		39	8.3	493.1
2		6	29.81	118.43		30	55.2	496.8
3		8	28.24	118.25		22	38.4	500.3
4		10	26.49	118.06		14	18.1	503.8
5		12	24.55	117.87	14	5	54.3	507.2
6	10	14	22.42	117.70	+13	57	27.1	−510.6
7		16	20.12	117.52		48	56.5	514.0
8		18	17.64	117.35		40	22.5	517.4
9		20	14.99	117.16		31	45.1	520.5
10		22	12.15	116.99		23	4.6	523.8
11		24	9.14	116.81		14	20.8	526.9
12	10	26	5.95	116.65	+13	5	33.9	−530.1
13		28	2.60	116.47	12	56	43.8	533.2
14		29	59.07	116.30		47	50.6	536.3
15		31	55.37	116.14		38	54.3	539.3
16		33	51.51	115.97		29	55.0	542.3
17		35	47.48	115.81		20	52.7	545.2
18	10	37	43.29	115.65	+12	11	47.5	−548.1
19		39	38.94	115.48	12	2	39.4	550.9
20		41	34.42	115.33	11	53	28.5	553.8
21		43	29.75	115.16		44	14.7	556.5
22		45	24.91	115.02		34	58.2	559.3
23		47	19.93	114.86		25	38.9	561.8
	8 月 20 日							
0	10	49	14.79	114.72	+11	16	17.1	−564.6
1		51	9.51	114.55	11	6	52.5	567.1
2		53	4.06	114.41	10	57	25.4	569.7
3		54	58.47	114.27		47	55.7	572.3
4		56	52.74	114.13		38	23.4	574.8
5	10	58	46.87	113.98		28	48.6	577.1
6	11	0	40.85	113.84	+10	19	11.5	−579.5
7		2	34.69	113.70	10	9	32.0	581.9
8		4	28.39	113.58	9	59	50.1	584.2
9		6	21.97	113.43		50	5.9	586.4
10		8	15.40	113.30		40	19.5	588.7
11		10	8.70	113.18		30	30.8	590.8
12	11	12	1.88		+ 9	20	40.0	

世界時	赤経				赤緯			
	8 月 20 日							
h	h	m	s	s	°	′	″	″
12	11	12	1.88	113.05	+ 9	20	40.0	−593.0
13		13	54.93	112.93		10	47.0	595.1
14		15	47.86	112.81	9	0	51.9	597.2
15		17	40.67	112.68	8	50	54.7	599.2
16		19	33.35	112.57		40	55.5	601.2
17		21	25.92	112.45		30	54.3	603.1
18	11	23	18.37	112.34	+ 8	20	51.2	−605.1
19		25	10.71	112.23		10	46.1	606.9
20		27	2.94	112.13	8	0	39.2	608.8
21		28	55.07	112.02	7	50	30.4	610.5
22		30	47.09	111.92		40	19.9	612.3
23		32	39.01	111.81		30	7.6	614.0
	8 月 21 日							
0	11	34	30.82	111.72	+ 7	19	53.6	−615.7
1		36	22.54	111.62	7	9	37.9	617.3
2		38	14.16	111.54	6	59	20.6	618.9
3		40	5.70	111.43		49	1.7	620.5
4		41	57.13	111.35		38	41.2	622.1
5		43	48.48	111.27		28	19.1	623.4
6	11	45	39.75	111.19	+ 6	17	55.7	−624.9
7		47	30.94	111.10	6	7	30.8	626.3
8		49	22.04	111.04	5	57	4.5	627.7
9		51	13.08	110.95		46	36.8	629.0
10		53	4.03	110.89		36	7.8	630.3
11		54	54.92	110.80		25	37.5	631.5
12	11	56	45.72	110.75	+ 5	15	6.0	−632.8
13	11	58	36.47	110.68	5	4	33.2	633.9
14	12	0	27.15	110.62	4	53	59.3	635.0
15		2	17.77	110.56		43	24.3	636.2
16		4	8.33	110.52		32	48.1	637.3
17		5	58.85	110.45		22	10.8	638.2
18	12	7	49.30	110.40	+ 4	11	32.6	−639.2
19		9	39.70	110.36	4	0	53.4	640.1
20		11	30.06	110.32	3	50	13.3	641.2
21		13	20.38	110.27		39	32.1	641.9
22		15	10.65	110.24		28	50.2	642.8
23		17	0.89	110.20		18	7.4	643.5
	8 月 22 日							
0	12	18	51.09	110.17	+ 3	7	23.9	−644.3
1		20	41.26	110.14	2	56	39.6	645.1
2		22	31.40	110.12		45	54.5	645.8
3		24	21.52	110.09		35	8.7	646.4
4		26	11.61	110.07		24	22.3	647.0
5		28	1.68	110.05		13	35.3	647.6
6	12	29	51.73	110.04	+ 2	2	47.7	−648.2
7		31	41.77	110.01	1	51	59.5	648.7
8		33	31.78	110.02		41	10.8	649.2
9		35	21.80	110.01		30	21.6	649.5
10		37	11.81	110.01		19	32.1	650.0
11		39	1.82	110.00	1	8	42.1	650.3
12	12	40	51.82	110.02	+ 0	57	51.8	−650.7
13		42	41.84	110.01		47	1.1	650.9
14		44	31.85	110.02		36	10.2	651.2
15		46	21.87	110.04		25	19.0	651.3
16		48	11.91	110.05		14	27.7	651.6
17		50	1.96	110.07	+ 0	3	36.1	651.8
18	12	51	52.03	110.10	− 0	7	15.7	−651.9
19		53	42.13	110.12		18	7.6	651.8
20		55	32.25	110.14		28	59.4	651.9
21		57	22.39	110.18		39	51.3	651.9
22	12	59	12.57	110.21	0	50	43.2	651.9
23	13	1	2.78	110.25	1	1	35.1	−651.8
24	13	2	53.03		− 1	12	26.9	

世界時	赤経				赤緯			
	8 月 23 日							
h	h	m	s	s	°	′	″	″
0	13	2	53.03	110.29	− 1	12	26.9	−651.7
1		4	43.32	110.33		23	18.6	651.5
2		6	33.65	110.38		34	10.1	651.4
3		8	24.03	110.44		45	1.5	651.1
4		10	14.47	110.48	1	55	52.6	650.9
5		12	4.95	110.54	2	6	43.5	650.5
6	13	13	55.49	110.60	− 2	17	34.0	−650.2
7		15	46.09	110.66		28	24.2	649.8
8		17	36.75	110.74		39	14.0	649.4
9		19	27.49	110.79	2	50	3.4	649.0
10		21	18.28	110.87	3	0	52.4	648.5
11		23	9.15	110.94		11	40.9	647.9
12	13	25	0.09	111.03	− 3	22	28.8	−647.4
13		26	51.12	111.10		33	16.2	646.8
14		28	42.22	111.20		44	3.0	646.2
15		30	33.42	111.27	3	54	49.2	645.5
16		32	24.69	111.37	4	5	34.7	644.9
17		34	16.06	111.47		16	19.6	644.0
18	13	36	7.53	111.57	− 4	27	3.6	−643.3
19		37	59.10	111.67		37	46.9	642.4
20		39	50.77	111.78		48	29.3	641.7
21		41	42.55	111.87	4	59	11.0	640.6
22		43	34.42	111.99	5	9	51.6	639.8
23		45	26.41	112.11		20	31.4	638.7
	8 月 24 日							
0	13	47	18.52	112.23	− 5	31	10.1	−637.8
1		49	10.75	112.34		41	47.9	636.7
2		51	3.09	112.47	5	52	24.6	635.7
3		52	55.56	112.59	6	3	0.3	634.4
4		54	48.15	112.73		13	34.7	633.3
5		56	40.88	112.86		24	8.0	632.0
6	13	58	33.74	113.01	− 6	34	40.0	−630.8
7	14	0	26.75	113.14		45	10.8	629.6
8		2	19.89	113.29	6	55	40.4	628.3
9		4	13.18	113.43	7	6	8.7	626 8
10		6	6.61	113.58		16	35.5	625.5
11		8	0.19	113.74		27	1.0	624.0
12	14	9	53.93	113.90	− 7	37	25.0	−622.5
13		11	47.83	114.05		47	47.5	620.9
14		13	41.88	114.22	7	58	8.4	619.4
15		15	36.10	114.38	8	8	27.8	617.8
16		17	30.48	114.56		18	45.6	616.2
17		19	25.04	114.73		29	1.8	614.3
18	14	21	19.77	114.91	− 8	39	16.1	−612.7
19		23	14.68	115.08		49	28.8	610.8
20		25	9.76	115.28	8	59	39.6	609.1
21		27	5.04	115.45	9	9	48.7	607.2
22		29	0.49	115.64		19	55.9	605.3
23		30	56.13	115.84		30	1.2	603.2
	8 月 25 日							
0	14	32	51.97	116.04	− 9	40	4.4	−601.3
1		34	48.01	116.23	9	50	5.7	599.3
2		36	44.24	116.44	10	0	5.0	597.2
3		38	40.68	116.64		10	2.2	594.9
4		40	37.32	116.85		19	57.1	592.9
5		42	34.17	117.06		29	50.0	590.6
6	14	44	31.23	117.28	−10	39	40.6	−588.4
7		46	28.51	117.49		49	29.0	585.9
8		48	26.00	117.72	10	59	14.9	583.7
9		50	23.72	117.93	11	8	58.6	581.2
10		52	21.65	118.16		18	39.8	578.9
11		54	19.81	118.40		28	18.7	−576.2
12	14	56	18.21		−11	37	54.9	

世界時	赤経				赤緯			
	8 月 25 日							
h	h	m	s	s	°	′	″	″
12	14	56	18.21	118.63	−11	37	54.9	−573.8
13	14	58	16.84	118.86		47	28.7	571.1
14	15	0	15.70	119.11	11	56	59.8	568.6
15		2	14.81	119.34	12	6	28.4	565.7
16		4	14.15	119.59		15	54.1	563.1
17		6	13.74	119.83		25	17.2	560.2
18	15	8	13.57	120.08	−12	34	37.4	−557.4
19		10	13.65	120.34		43	54.8	554.6
20		12	13.99	120.60	12	53	9.4	551.6
21		14	14.59	120.86	13	2	21.0	548.6
22		16	15.45	121.12		11	29.6	545.7
23		18	16.57	121.38		20	35.3	542.4
	8 月 26 日							
0	15	20	17.95	121.66	−13	29	37.7	−539.3
1		22	19.61	121.91		38	37.0	536.1
2		24	21.52	122.19		47	33.1	532.9
3		26	23.71	122.46	13	56	26.0	529.6
4		28	26.17	122.75	14	5	15.6	526.3
5		30	28.92	123.02		14	1.9	522.8
6	15	32	31.94	123.31	−14	22	44.7	−519.5
7		34	35.25	123.59		31	24.2	515.9
8		36	38.84	123.88		40	0.1	512.3
9		38	42.72	124.17		48	32.4	508.7
10		40	46.89	124.46	14	57	1.1	505.1
11		42	51.35	124.76	15	5	26.2	501.2
12	15	44	56.11	125.06	−15	13	47.4	−497.5
13		47	1.17	125.35		22	4.9	493.7
14		49	6.52	125.66		30	18.6	489.8
15		51	12.18	125.95		38	28.4	485.8
16		53	18.13	126.27		46	34.2	481.8
17		55	24.40	126.56	15	54	36.0	477.8
18	15	57	30.96	126.88	−16	2	33.8	−473.6
19	15	59	37.84	127.19		10	27.4	469.4
20	16	1	45.03	127.50		18	16.8	465.2
21		3	52.53	127.82		26	2.0	461.0
22		6	0.35	128.14		33	43.0	456.6
23		8	8.49	128.45		41	19.6	452.1
	8 月 27 日							
0	16	10	16.94	128.78	−16	48	51.7	−447.7
1		12	25.72	129.09	16	56	19.4	443.1
2		14	34.81	129.42	17	3	42.5	438.6
3		16	44.23	129.74		11	1.1	433.9
4		18	53.97	130.07		18	15.0	429.3
5		21	4.04	130.38		25	24.3	424.4
6	16	23	14.42	130.72	−17	32	28.7	−419.7
7		25	25.14	131.05		39	28.4	414.6
8		27	36.19	131.38		46	23.0	409.7
9		29	47.57	131.71		53	12.7	404.7
10		31	59.28	132.04	17	59	57.4	399.7
11		34	11.32	132.37	18	6	37.1	394.5
12	16	36	23.69	132.71	−18	13	11.6	−389.3
13		38	36.40	133.04		19	40.9	384.1
14		40	49.44	133.38		26	5.0	378.8
15		43	2.82	133.71		32	23.8	373.4
16		45	16.53	134.05		38	37.2	368.0
17		47	30.58	134.39		44	45.2	362.4
18	16	49	44.97	134.72	−18	50	47.6	−356.8
19		51	59.69	135.05	18	56	44.4	351.2
20		54	14.74	135.39	19	2	35.6	345.6
21		56	30.13	135.73		8	21.2	339.7
22	16	58	45.86	136.06		14	0.9	333.9
23	17	1	1.92	136.40		19	34.8	−328.1
24	17	3	18.32		−19	25	2.9	

世界時	赤経				赤緯			
	8 月 28 日							
h	h	m	s	s	°	′	″	″
0	17	3	18.32	136.73	−19	25	2.9	−322.1
1		5	35.05	137.07		30	25.0	316.1
2		7	52.12	137.41		35	41.1	310.1
3		10	9.53	137.74		40	51.2	303.9
4		12	27.27	138.07		45	55.1	297.7
5		14	45.34	138.41		50	52.8	291.5
6	17	17	3.75	138.74	−19	55	44.3	−285.2
7		19	22.49	139.07	20	0	29.5	278.7
8		21	41.56	139.40		5	8.2	272.4
9		24	0.96	139.72		9	40.6	265.7
10		26	20.68	140.05		14	6.3	259.3
11		28	40.73	140.37		18	25.6	252.6
12	17	31	1.10	140.70	−20	22	38.2	−246.0
13		33	21.80	141.02		26	44.2	239.1
14		35	42.82	141.34		30	43.3	232.4
15		38	4.16	141.66		34	35.7	225.5
16		40	25.82	141.98		38	21.2	218.6
17		42	47.80	142.30		41	59.8	211.6
18	17	45	10.10	142.60	−20	45	31.4	−204.6
19		47	32.70	142.92		48	56.0	197.3
20		49	55.62	143.23		52	13.3	190.3
21		52	18.85	143.53		55	23.6	183.0
22		54	42.38	143.83	20	58	26.6	175.9
23		57	6.21	144.13	21	1	22.5	168.4
	8 月 29 日							
0	17	59	30.34	144.43	−21	4	10.9	−161.1
1	18	1	54.77	144.72		6	52.0	153.7
2		4	19.49	145.02		9	25.7	146.2
3		6	44.51	145.30		11	51.9	138.5
4		9	9.81	145.59		14	10.4	131.0
5		11	35.40	145.87		16	21.4	123.3
6	18	14	1.27	146.15	−21	18	24.7	−115.7
7		16	27.42	146.42		20	20.4	107.8
8		18	53.84	146.69		22	8.2	100.1
9		21	20.53	146.95		23	48.3	92.2
10		23	47.48	147.22		25	20.5	84.3
11		26	14.70	147.48		26	44.8	76.3
12	18	28	42.18	147.74	−21	28	1.1	− 68.4
13		31	9.92	147.99		29	9.5	60.3
14		33	37.91	148.24		30	9.8	52.3
15		36	6.15	148.47		31	2.1	44.0
16		38	34.62	148.71		31	46.1	35.9
17		41	3.33	148.95		32	22.0	27.6
18	18	43	32.28	149.18	−21	32	49.6	− 19.4
19		46	1.46	149.39		33	9.0	11.2
20		48	30.85	149.62		33	20.2	− 2.8
21		51	0.47	149.83		33	23.0	+ 5.5
22		53	30.30	150.05		33	17.5	14.0
23		56	0.35	150.24		33	3.5	22.3
	8 月 30 日							
0	18	58	30.59	150.45	−21	32	41.2	+ 30.9
1	19	1	1.04	150.64		32	10.3	39.4
2		3	31.68	150.83		31	30.9	47.9
3		6	2.51	151.01		30	43.0	56.4
4		8	33.52	151.20		29	46.6	65.1
5		11	4.72	151.37		28	41.5	73.6
6	19	13	36.09	151.53	−21	27	27.9	+ 82.4
7		16	7.62	151.69		26	5.5	90.9
8		18	39.31	151.85		24	34.6	99.6
9		21	11.16	152.01		22	55.0	108.4
10		23	43.17	152.15		21	6.6	117.1
11		26	15.32	152.28		19	9.5	+125.8
12	19	28	47.60		−21	17	3.7	

世界時	赤経				赤緯			
	8 月 30 日							
h	h	m	s	s	°	′	″	″
12	19	23	47.60	152.42	−21	17	3.7	+134.6
13		31	20.02	152.56		14	49.1	143.4
14		33	52.58	152.68		12	25.7	152.2
15		36	25.26	152.79		9	53.5	160.9
16		38	58.05	152.91		7	12.6	169.8
17		41	30.96	153.00		4	22.8	178.5
18	19	44	3.96	153.10	−21	1	24.3	+187.3
19		46	37.06	153.20	20	58	17.0	196.1
20		49	10.26	153.29		55	0.9	205.0
21		51	43.55	153.36		51	35.9	213.8
22		54	16.91	153.44		48	2.1	222.7
23		56	50.35	153.52		44	19.4	231.4
	8 月 31 日							
0	19	59	23.87	153.58	−20	40	28.0	+240.3
1	20	1	57.45	153.64		36	27.7	249.0
2		4	31.09	153.69		32	18.7	257.9
3		7	4.78	153.73		28	0.8	266.6
4		9	38.51	153.77		23	34.2	275.5
5		12	12.23	153.81		18	58.7	284.2
6	20	14	46.09	153.84	−20	14	14.5	+292.9
7		17	19.93	153.86		9	21.6	301.6
8		19	53.79	153.88	20	4	20.0	310.4
9		22	27.67	153.89	19	59	9.6	318.9
10		25	1.56	153.90		53	50.7	327.7
11		27	35.46	153.89		48	23.0	336.3
12	20	30	9.35	153.90	−19	42	46.7	+345.0
13		32	43.25	153.88		37	1.7	353.5
14		35	17.13	153.87		31	8.2	362.1
15		37	51.00	153.84		25	6.1	370.6
16		40	24.84	153.83		18	55.5	379.1
17		42	58.67	153.78		12	36.4	387.5
18	20	45	32.45		−19	6	8.9	
19		48	6.20	153.75	18	59	33.0	+395.9
20		50	39.91	153.71		52	48.7	404.3
21		53	13.58	153.67		45	56.1	412.6
22		55	47.18	153.60		38	55.1	421.0
23	20	58	20.74	153.56		31	45.9	429.2
				153.49				437.4
	9 月 1 日							
0	21	0	54.23	153.43	−18	24	28.5	+445.5
1		3	27.66	153.34		17	3.0	453.7
2		6	1.00	153.28		9	29.3	461.8
3		8	34.28	153.19	18	1	47.5	469.7
4		11	7.47	153.11	17	53	57.8	477.7
5		13	40.53	153.03		46	0.1	485.4
6	21	16	13.61	152.93	−17	37	54.7	+493.3
7		18	46.54	152.83		29	41.4	501.1
8		21	19.37	152.73		21	20.3	508.8
9		23	52.10	152.62		12	51.5	516.4
10		26	24.72	152.52	17	4	15.1	524.0
11		28	57.24	152.40	16	55	31.1	531.6
12	21	31	29.64	152.29	−16	46	39.5	+539.0
13		34	1.93	152.16		37	40.5	546.3
14		36	34.09	152.04		28	34.2	553.7
15		39	6.13	151.92		19	20.5	560.9
16		41	38.05	151.79		9	59.6	568.1
17		44	9.84	151.64	16	0	31.5	575.0
18	21	46	41.48	151.52	−15	50	56.5	+582.1
19		49	13.00	151.38		41	14.4	589.1
20		51	44.38	151.24		31	25.3	595.9
21		54	15.62	151.09		21	29.4	602.7
22		56	46.71	150.95		11	26.7	609.4
23	21	59	17.66	150.79	15	1	17.3	+615.9
24	22	1	48.45		−14	51	1.4	

9月2日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	22	1	48.45	150.65	−14	51	1.4	+622.5
1		4	19.10	150.48		40	38.9	628.8
2		6	49.58	150.33		30	10.1	635.3
3		9	19.91	150.17		19	34.8	641.5
4		11	50.08	150.02	14	8	53.3	647.8
5		14	20.10	149.85	13	58	5.5	653.8
6	22	16	49.95	149.69	−13	47	11.7	+659.8
7		19	19.64	149.52		36	11.9	665.6
8		21	49.16	149.35		25	6.3	671.5
9		24	18.51	149.19		13	54.8	677.2
10		26	47.70	149.02	13	2	37.6	682.8
11		29	16.72	148.84	12	51	14.8	688.3
12	22	31	45.56	148.68	−12	39	46.5	+693.7
13		34	14.24	148.49		28	12.8	699.1
14		36	42.73	148.33		16	33.7	704.3
15		39	11.06	148.15	12	4	49.4	709.4
16		41	39.21	147.98	11	53	0.0	714.4
17		44	7.19	147.80		41	5.6	719.4
18	22	46	34.99	147.63	−11	29	6.2	+724.2
19		49	2.62	147.44		17	2.0	728.9
20		51	30.06	147.27	11	4	53.1	733.6
21		53	57.33	147.09	10	52	39.5	738.1
22		56	24.42	146.92		40	21.4	742.5
23	22	58	51.34	146.73		27	58.9	746.8

9月3日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	23	1	18.07	146.57	−10	15	32.1	+751.0
1		3	44.64	146.38	10	3	1.1	755.2
2		6	11.02	146.21	9	50	25.9	759.1
3		8	37.23	146.02		37	46.8	763.0
4		11	3.25	145.86		25	3.8	766.9
5		13	29.11	145.68	9	12	16.9	770.5
6	23	15	54.79	145.51	− 8	59	26.4	+774.1
7		18	20.30	145.32		46	32.3	777.4
8		20	45.62	145.16		33	34.9	781.0
9		23	10.78	144.97		20	33.9	784.1
10		25	35.75	144.82	8	7	29.8	787.3
11		28	0.57	144.63	7	54	22.5	790.3
12	23	30	25.20	144.46	− 7	41	12.2	+793.3
13		32	49.66	144.30		27	58.9	796.1
14		35	13.96	144.13		14	42.8	798.8
15		37	38.09	143.97	7	1	24.0	801.4
16		40	2.06	143.80	6	48	2.6	803.9
17		42	25.86	143.63		34	38.7	806.3
18	23	44	49.49	143.48	− 6	21	12.4	+808.6
19		47	12.97	143.31	6	7	43.8	810.7
20		49	36.28	143.15	5	54	13.1	812.8
21		51	59.43	142.99		40	40.3	814.8
22		54	22.42	142.84		27	5.5	816.6
23		56	45.26	142.68	5	13	28.9	818.4

9月4日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	23	59	7.94	142.53	− 4	59	50.5	+820.0
1	0	1	30.47	142.37		46	10.5	821.5
2		3	52.84	142.23		32	29.0	822.9
3		6	15.07	142.08		18	46.1	824.3
4		8	37.15	141.93	4	5	1.8	825.5
5		10	59.08	141.79	3	51	16.3	826.6
6	0	13	20.87	141.65	− 3	37	29.7	+827.6
7		15	42.52	141.51		23	42.1	828.4
8		18	4.03	141.38	3	9	53.7	829.3
9		20	25.41	141.23	2	56	4.4	829.8
10		22	46.64	141.11		42	14.6	830.5
11		25	7.75	140.96		28	24.1	+830.9
12	0	27	28.71	140.84	− 2	14	33.2	+831.3
13		29	49.55	140.72	2	0	41.9	831.6
14		32	10.27	140.59	1	46	50.3	831.7
15		34	30.86	140.46		32	58.6	831.8
16		36	51.32	140.35		19	6.8	831.8
17		39	11.67	140.22	1	5	15.0	831.6
18	0	41	31.89	140.12	− 0	51	23.4	+831.3
19		43	52.01	139.99		37	32.1	830.9
20		46	12.00	139.88		23	41.2	830.6
21		48	31.88	139.78	− 0	9	50.6	830.0
22		50	51.66	139.67	+ 0	3	59.4	829.4
23		53	11.33	139.57		17	48.8	828.6

9月5日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	0	55	30.90	139.47	+ 0	31	37.4	+827.8
1	0	57	50.37	139.36		45	25.2	826.8
2	1	0	9.73	139.27	0	59	12.0	825.8
3		2	29.00	139.17	1	12	57.8	824.6
4		4	48.17	139.09		26	42.4	823.5
5		7	7.26	138.98		40	25.9	822.0
6	1	9	26.24	138.90	+ 1	54	7.9	+820.8
7		11	45.14	138.82	2	7	48.7	819.1
8		14	3.96	138.74		21	27.8	817.6
9		16	22.70	138.65		35	5.4	815.9
10		18	41.35	138.58	2	48	41.3	814.1
11		20	59.93	138.50	3	2	15.4	812.3
12	1	23	18.43	138.44	+ 3	15	47.7	+810.2
13		25	36.87	138.35		29	17.9	808.2
14		27	55.22	138.29		42	46.1	806.1
15		30	13.51	138.22	3	56	12.2	803.8
16		32	31.73	138.16	4	9	36.0	801.6
17		34	49.89	138.09		22	57.6	799.1
18	1	37	7.98	138.04	+ 4	36	16.7	+796.7
19		39	26.02	137.98	4	49	33.4	794.0
20		41	44.00	137.93	5	2	47.4	791.5
21		44	1.93	137.87		15	58.9	788.6
22		46	19.80	137.82		29	7.5	785.9
23		48	37.62	137.78		42	13.4	782.9

9月6日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	1	50	55.40	137.73	+ 5	55	16.3	+780.0
1		53	13.13	137.68	6	8	16.3	776.9
2		55	30.81	137.65		21	13.2	773.8
3	1	57	48.46	137.60		34	7.0	770.5
4	2	0	6.06	137.57		46	57.5	767.3
5		2	23.63	137.53	6	59	44.8	763.8
6	2	4	41.16	137.51	+ 7	12	28.6	+760.5
7		6	58.67	137.46		25	9.1	756.8
8		9	16.13	137.44		37	45.9	753.3
9		11	33.57	137.41	7	50	19.2	749.6
10		13	50.98	137.39	8	2	48.8	745.9
11		16	8.37	137.36		15	14.7	742.0
12	2	18	25.73	137.34	+ 8	27	36.7	+738.2
13		20	43.07	137.32		39	54.9	734.1
14		23	0.39	137.30	8	52	9.0	730.1
15		25	17.69	137.28	9	4	19.1	726.1
16		27	34.97	137.27		16	25.2	722.0
17		29	52.24	137.25		28	27.2	717.7
18	2	32	9.49	137.25	+ 9	40	24.9	+713.4
19		34	26.74	137.23	9	52	18.3	709.0
20		36	43.97	137.22	10	4	7.3	704.7
21		39	1.19	137.22		15	52.0	700.0
22		41	18.41	137.22		27	32.0	695.5
23		43	35.63	137.21		39	7.5	+690.9
24	2	45	52.84	137.21	+10	50	38.4	

9月7日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	2	45	52.84	137.21	+10	50	38.4	+686.3
1		48	10.05	137.20	11	2	4.7	681.5
2		50	27.25	137.21		13	26.2	676.7
3		52	44.46	137.20		24	42.9	671.8
4		55	1.66	137.21		35	54.7	667.0
5		57	18.87	137.21		47	1.7	662.0
6	2	59	36.08	137.21	+11	58	3.7	+656.9
7	3	1	53.29	137.21	12	9	0.6	651.8
8		4	10.50	137.22		19	52.4	646.8
9		6	27.72	137.23		30	39.2	641.5
10		8	44.95	137.24		41	20.7	636.3
11		11	2.19	137.25	12	51	57.0	630.9
12	3	13	19.44	137.26	+13	2	27.9	+625.6
13		15	36.70	137.27		12	53.5	620.2
14		17	53.97	137.28		23	13.7	614.8
15		20	11.25	137.29		33	28.5	609.2
16		22	28.54	137.30		43	37.7	603.7
17		24	45.84	137.31	13	53	41.4	598.1
18	3	27	3.15	137.33	+14	3	39.5	+592.4
19		29	20.48	137.34		13	31.9	586.8
20		31	37.82	137.35		23	18.7	581.1
21		33	55.17	137.37		32	59.8	575.2
22		36	12.54	137.38		42	35.0	569.5
23		38	29.92	137.40	14	52	4.5	563.6

9月8日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	3	40	47.32	137.41	+15	1	28.1	+557.7
1		43	4.73	137.43		10	45.8	551.7
2		45	22.16	137.44		19	57.5	545.7
3		47	39.60	137.46		29	3.2	539.7
4		49	57.06	137.47		38	2.9	533.7
5		52	14.53	137.49		46	56.6	527.5
6	3	54	32.02	137.50	+15	55	44.1	+521.4
7		56	49.52	137.51	16	4	25.5	515.2
8	3	59	7.03	137.53		13	0.7	509.0
9	4	1	24.56	137.54		21	29.7	502.7
10		3	42.10	137.55		29	52.4	496.5
11		5	59.65	137.57		38	8.9	490.1
12	4	8	17.22	137.58	+16	46	19.0	+483.9
13		10	34.80	137.59	16	54	22.9	477.4
14		12	52.39	137.60	17	2	20.3	471.0
15		15	9.99	137.61		10	11.3	464.5
16		17	27.60	137.62		17	55.8	458.2
17		19	45.22	137.63		25	34.0	451.5
18	4	22	2.85	137.63	+17	33	5.5	+445.1
19		24	20.48	137.64		40	30.6	438.4
20		26	38.12	137.66		47	49.0	431.9
21		28	55.78	137.65	17	55	0.9	425.3
22		31	13.43	137.66	18	2	6.2	418.7
23		33	31.09	137.66		9	4.9	412.0

9月9日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	4	35	48.75	137.67	+18	15	56.9	+405.4
1		38	6.42	137.66		22	42.3	398.6
2		40	24.08	137.66		29	20.9	391.9
3		42	41.74	137.66		35	52.8	385.1
4		44	59.40	137.66		42	17.9	378.4
5		47	17.05	137.65		48	36.3	371.6
6	4	49	34.70	137.65	+18	54	47.9	+364.9
7		51	52.35	137.64	19	0	52.8	358.0
8		54	9.99	137.63		6	50.8	351.1
9		56	27.62	137.62		12	41.9	344.3
10	4	58	45.24	137.61		18	26.2	337.4
11	5	1	2.85	137.61		24	3.6	+330.6
12	5	3	20.44	137.59	+19	29	34.2	

9月9日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
12	5	3	20.44	137.58	+19	29	34.2	+323.7
13		5	38.02	137.56		34	57.9	316.7
14		7	55.58	137.54		40	14.6	309.9
15		10	13.12	137.52		45	24.5	302.8
16		12	30.64	137.50		50	27.3	295.9
17		14	48.14	137.47	19	55	23.2	288.9
18	5	17	5.61	137.44	+20	0	12.1	+282.0
19		19	23.05	137.42		4	54.1	275.0
20		21	40.47	137.39		9	29.1	268.0
21		23	57.86	137.35		13	57.1	261.0
22		26	15.21	137.32		18	18.1	254.1
23		28	32.53	137.28		22	32.2	247.0

9月10日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	5	30	49.81	137.24	+20	26	39.2	+240.0
1		33	7.05	137.20		30	39.2	233.0
2		35	24.25	137.16		34	32.2	226.0
3		37	41.41	137.11		38	18.2	219.0
4		39	58.52	137.07		41	57.2	211.9
5		42	15.59	137.02		45	29.1	204.9
6	5	44	32.61	136.97	+20	48	54.0	+197.9
7		46	49.58	136.91		52	11.9	190.8
8		49	6.49	136.86		55	22.7	183.8
9		51	23.35	136.79	20	58	26.5	176.8
10		53	40.14	136.74	21	1	23.3	169.8
11		55	56.88	136.67		4	13.1	162.7
12	5	58	13.55	136.60	+21	6	55.8	+155.7
13	6	0	30.15	136.54		9	31.5	148.7
14		2	46.69	136.48		12	0.2	141.7
15		5	3.17	136.39		14	21.9	134.6
16		7	19.56	136.32		16	36.5	127.7
17		9	35.88	136.24		18	44.2	120.6
18	6	11	52.12	136.17	+21	20	44.8	+113.8
19		14	8.29	136.08		22	38.6	106.7
20		16	24.37	136.00		24	25.3	99.8
21		18	40.37	135.91		26	5.1	92.7
22		20	56.28	135.82		27	37.8	85.9
23		23	12.10	135.72		29	3.7	78.8

9月11日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
0	6	25	27.82	135.64	+21	30	22.5	+ 72.0
1		27	43.46	135.53		31	34.5	65.0
2		29	58.99	135.44		32	39.5	58.1
3		32	14.43	135.33		33	37.6	51.3
4		34	29.76	135.23		34	28.9	44.4
5		36	44.99	135.13		35	13.3	37.5
6	6	39	0.12	135.02	+21	35	50.8	+ 30.7
7		41	15.14	134.90		36	21.5	23.8
8		43	30.04	134.79		36	45.3	17.0
9		45	44.83	134.67		37	2.3	10.2
10		47	59.50	134.56		37	12.5	+ 3.4
11		50	14.06	134.43		37	15.9	− 3.4
12	6	52	28.49	134.32	+21	37	12.5	− 10.1
13		54	42.81	134.19		37	2.4	16.9
14		56	57.00	134.07		36	45.5	23.6
15	6	59	11.07	133.92		36	21.9	30.2
16	7	1	24.99	133.81		35	51.7	36.9
17		3	38.80	133.66		35	14.8	43.5
18	7	5	52.46	133.53	+21	34	31.3	− 50.2
19		8	5.99	133.39		33	41.1	56.8
20		10	19 38	133.25		32	44.3	63.4
21		12	32.63	133.11		31	40.9	69.9
22		14	45.74	132.97		30	31.0	76.5
23		16	58.71	132.82		29	14.5	− 83.0
24	7	19	11.53		+21	27	51.5	

世界時	赤経				赤緯			
	9月12日							
h	h	m	s	s	°	′	″	″
0	7	19	11.53	132.68	+21	27	51.5	− 89.6
1		21	24.21	132.51		26	21.9	95.9
2		23	36.72	132.38		24	46.0	102.4
3		25	49.10	132.21		23	3.6	108.8
4		28	1.31	132.06		21	14.8	115.2
5		30	13.37	131.89		19	19.6	121.5
6	7	32	25.26	131.74	+21	17	18.1	−127.8
7		34	37.00	131.58		15	10.3	134.2
8		36	48.58	131.42		12	56.1	140.5
9		39	0.00	131.25		10	35.6	146.7
10		41	11.25	131.08		8	8.9	152.9
11		43	22.33	130.91		5	36.0	159.1
12	7	45	33.24	130.75	+21	2	56.9	−165.3
13		47	43.99	130.57		21	0	11.6	171.4
14		49	54.56	130.40		20	57	20.2	177.5
15		52	4.96	130.22			54	22.7	183.5
16		54	15.18	130.06			51	19.2	189.6
17		56	25.24	129.87			48	9.6	195.6
18	7	58	35.11	129.69	+20	44	54.0	−201.6
19	8	0	44.80	129.51			41	32.4	207.5
20		2	54.31	129.34			38	4.9	213.5
21		5	3.65	129.15			34	31.4	219.2
22		7	12.80	128.97			30	52.2	225.2
23		9	21.77	128.78			27	7.0	230.9
	9月13日							
0	8	11	30.55	128.60	+20	23	16.1	−236.7
1		13	39.15	128.41		19	19.4	242.5
2		15	47.56	128.23		15	16.9	248.2
3		17	55.79	128.03		11	8.7	253.8
4		20	3.82	127.85		6	54.9	259.5
5		22	11.67	127.65	20	2	35.4	265.0
6	8	24	19.32	127.47	+19	58	10.4	−270.6
7		26	26.79	127.26		53	39.8	276.2
8		28	34.05	127.09		49	3.6	281.7
9		30	41.14	126.88		44	21.9	287.0
10		32	48.02	126.70		39	34.9	292.5
11		34	54.72	126.49		34	42.4	297.9
12	8	37	1.21	126.31	+19	29	44.5	−303.3
13		39	7.52	126.10		24	41.2	308.6
14		41	13.62	125.91		19	32.6	313.9
15		43	19.53	125.71		14	18.7	319.0
16		45	25.24	125.52		8	59.7	324.3
17		47	30.76	125.31	19	3	35.4	329.4
18	8	49	36.07	125.12	+18	58	6.0	−334.6
19		51	41.19	124.92		52	31.4	339.6
20		53	46.11	124.73		46	51.8	344.7
21		55	50.84	124.53		41	7.1	349.6
22		57	55.37	124.33		35	17.5	354.6
23	8	59	59.70	124.13		29	22.9	359.6
	9月14日							
0	9	2	3.83	123.94	+18	23	23.3	−364.5
1		4	7.77	123.73		17	18.8	369.2
2		6	11.50	123.54		11	9.6	374.1
3		8	15.04	123.34	18	4	55.5	378.9
4		10	18.38	123.15	17	58	36.6	383.6
5		12	21.53	122.95		52	13.0	388.2
6	9	14	24.48	122.76	+17	45	44.8	−393.0
7		16	27.24	122.55		39	11.8	397.5
8		18	29.79	122.36		32	34.3	402.1
9		20	32.15	122.16		25	52.2	406.7
10		22	34.31	121.97		19	5.5	411.2
11		24	36.28	121.77		12	14.3	−415.5
12	9	26	38.05		+17	5	18.8	

世界時	赤経				赤緯			
	9月14日							
h	h	m	s	s	°	′	″	″
12	9	26	38.05	121.58	+17	5	18.8	−420.0
13		28	39.63	121.38		16	58	18.8	424.4
14		30	41.01	121.20			51	14.4	428.7
15		32	42.21	120.99			44	5.7	432.9
16		34	43.20	120.81			36	52.8	437.3
17		36	44.01	120.61			29	35.5	441.4
18	9	38	44.62	120.43	+16	22	14.1	−445.5
19		40	45.05	120.23			14	48.6	449.7
20		42	45.28	120.04		16	7	18.9	453.8
21		44	45.32	119.86		15	59	45.1	457.9
22		46	45.18	119.67			52	7.2	461.9
23		48	44.85	119.48			44	25.3	465.8
	9月15日							
0	9	50	44.33	119.30	+15	36	39.5	−469.8
1		52	43.63	119.12		28	49.7	473.5
2		54	42.75	118.93		20	56.2	477.5
3		56	41.68	118.75		12	58.7	481.2
4	9	58	40.43	118.57	15	4	57.5	485.0
5	10	0	39.00	118.39	14	56	52.5	488.7
6	10	2	37.39	118.22	+14	48	43.8	−492.4
7		4	35.61	118.03		40	31.4	496.0
8		6	33.64	117.86		32	15.4	499.6
9		8	31.50	117.68		23	55.8	503.2
10		10	29.18	117.52		15	32.6	506.7
11		12	26.70	117.33	14	7	5.9	510.0
12	10	14	24.03	117.17	+13	58	35.9	−513.6
13		16	21.20	117.00		50	2.3	516.9
14		18	18.20	116.83		41	25.4	520.3
15		20	15.03	116.67		32	45.1	523.6
16		22	11.70	116.50		24	1.5	526.9
17		24	8.20	116.34		15	14.6	530.1
18	10	26	4.54	116.18	+13	6	24.5	−533.2
19		28	0.72	116.02	12	57	31.3	536.4
20		29	56.74	115.87		48	34.9	539.6
21		31	52.61	115.70		39	35.3	542.5
22		33	48.31	115.56		30	32.8	545.5
23		35	43.87	115.39		21	27.3	548.5
	9月16日							
0	10	37	39.26	115.24	+12	12	18.8	−551.4
1		39	34.50	115.10		12	3	7.4	554.4
2		41	29.60	114.95	11	53	53.0	557.2
3		43	24.55	114.81		44	35.8	560.0
4		45	19.36	114.66		35	15.8	562.8
5		47	14.02	114.52		25	53.0	565.6
6	10	49	8.54	114.38	+11	16	27.4	−568.3
7		51	2.92	114.23	11	6	59.1	570.8
8		52	57.15	114.11	10	57	28.3	573.5
9		54	51.26	113.97		47	54.8	576.0
10		56	45.23	113.84		38	18.8	578.5
11	10	58	39.07	113.70		28	40.3	581.1
12	11	0	32.77	113.57	+10	18	59.2	−583.6
13		2	26.34	113.45	10	9	15.6	585.9
14		4	19.79	113.33	9	59	29.7	588.3
15		6	13.12	113.21		49	41.4	590.5
16		8	6.33	113.09		39	50.9	593.0
17		9	59.42	112.96		29	57.9	595.1
18	11	11	52.38	112.86	+ 9	20	2.8	−597.3
19		13	45.24	112.73		10	5.5	599.5
20		15	37.97	112.64	9	0	6.0	601.6
21		17	30.61	112.51	8	50	4.4	603.7
22		19	23.12	112.42		40	0.7	605.8
23		21	15.54	112.29		29	54.9	−607.8
24	11	23	7.83		+ 8	19	47.1	

世界時	赤経				赤緯			
	9月17日							
h	h	m	s	s	°	′	″	″
0	11	23	7.83	112.21	+ 8	19	47.1	−609.7
1		25	0.04	112.10		8	9	37.4	611.7
2		26	52.14	112.01		7	59	25.7	613.6
3		28	44.15	111.90			49	12.1	615.4
4		30	36.05	111.82			38	56.7	617.2
5		32	27.87	111.72			28	39.5	619.0
6	11	34	19.59	111.64	+ 7	18	20.5	−620.7
7		36	11.23	111.55		7	59.8	622.3
8		38	2.78	111.47		6	57	37.5	624.1
9		39	54.25	111.39			47	13.4	625.6
10		41	45.64	111.31			36	47.8	627.2
11		43	36.95	111.23			26	20.6	628.8
12	11	45	28.18	111.16	+ 6	15	51.8	−630.3
13		47	19.34	111.08		6	5	21.5	631.6
14		49	10.42	111.02		5	54	49.9	633.1
15		51	1.44	110.95			44	16.8	634.5
16		52	52.39	110.89			33	42.3	635.9
17		54	43.28	110.82			23	6.4	637.0
18	11	56	34.10	110.76	+ 5	12	29.4	−638.3
19	11	58	24.86	110.70		5	1	51.1	639.5
20	12	0	15.56	110.66		4	51	11.6	640.8
21		2	6.22	110.60			40	30.8	641.9
22		3	56.82	110.55			29	48.9	643.0
23		5	47.37	110.50			19	5.9	644.0
	9月18日							
0	12	7	37.87	110.46	+ 4	8	21.9	−645.1
1		9	28.33	110.42		3	57	36.8	646.0
2		11	18.75	110.39			46	50.8	647.0
3		13	9.14	110.34			36	3.8	647.9
4		14	59.48	110.32			25	15.9	648.8
5		16	49.80	110.27			14	27.1	649.5
6	12	18	40.07	110.26	+ 3	3	37.6	−650.3
7		20	30.33	110.23		2	52	47.3	651.1
8		22	20.56	110.20			41	56.2	651.9
9		24	10.76	110.18			31	4.3	652.4
10		26	0.94	110.17			20	11.9	653.1
11		27	51.11	110.15		2	9	18.8	653.7
12	12	29	41.26	110.13	+ 1	58	25.1	−654.2
13		31	31.39	110.13			47	30.9	654.8
14		33	21.52	110.13			36	36.1	655.3
15		35	11.65	110.12			25	40.8	655.6
16		37	1.77	110.12			14	45.2	656.1
17		38	51.89	110.12		1	3	49.1	656.4
18	12	40	42.01	110.12	+ 0	52	52.7	−656.8
19		42	32.13	110.13			41	55.9	656.9
20		44	22.26	110.14			30	59.0	657.3
21		46	12.40	110.16			20	1.7	657.4
22		48	2.56	110.17	+ 0	9	4.3	657.6
23		49	52.73	110.19	− 0	1	53.3	657.7
	9月19日							
0	12	51	42.92	110.20	− 0	12	51.0	−657.9
1		53	33.12	110.22		23	48.9	657.8
2		55	23.34	110.26		34	46.7	657.8
3		57	13.60	110.29		45	44.5	657.8
4	12	59	3.89	110.32	0	56	42.3	657.8
5	13	0	54.21	110.35	1	7	40.1	657.6
6	13	2	44.56	110.39	− 1	18	37.7	−657.5
7		4	34.95	110.43		29	35.2	657.3
8		6	25.38	110.48		40	32.5	657.0
9		8	15.86	110.51	1	51	29.5	656.8
10		10	6.37	110.56	2	2	26.3	656.6
11		11	56.93	110.62		13	22.9	654.9
12	13	13	47.55		− 2	24	19.0	−656.1

世界時	赤経				赤緯			
	9月19日							
h	h	m	s	s	°	′	″	″
12	13	13	47.55	110.68	− 2	24	19.0	−655.8
13		15	38.23	110.73		35	14.8	655.3
14		17	28.96	110.79		46	10.1	654.9
15		19	19.75	110.85	2	57	5.0	654.3
16		21	10.60	110.93	3	7	59.3	653.8
17		23	1.53	110.98		18	53.1	653.2
18	13	24	52.51	111.05	− 3	29	46.3	−652.6
19		26	43.56	111.13		40	38.9	651.9
20		28	34.69	111.21	3	51	30.8	651.2
21		30	25.90	111.29	4	2	22.0	650.4
22		32	17.19	111.38		13	12.4	649.7
23		34	8.57	111.45		24	2.1	648.9
	9月20日							
0	13	36	0.02	111.55	− 4	34	51.0	−648.0
1		37	51.57	111.64		45	39.0	647.0
2		39	43.21	111.73	4	56	26.0	646.1
3		41	34.94	111.83	5	7	12.1	645.1
4		43	26.77	111.93		17	57.2	644.1
5		45	18.70	112.02		28	41.3	643.1
6	13	47	10.72	112.14	− 5	39	24.4	−641.9
7		49	2.86	112.23	5	50	6.3	640.7
8		50	55.09	112.35	6	0	47.0	639.5
9		52	47.44	112.47		11	26.5	638.3
10		54	39.91	112.59		22	4.8	637.1
11		56	32.50	112.70		32	41.9	635.6
12	13	58	25.20	112.83	− 6	43	17.5	−634.4
13	14	0	18.03	112.95	6	53	51.9	632.9
14		2	10.98	113.09	7	4	24.8	631.5
15		4	4.07	113.20		14	56.3	630.0
16		5	57.27	113.34		25	26.3	628.5
17		7	50.61	113.47		35	54.8	626.9
18	14	9	44.08	113.62	− 7	46	21.7	−625.3
19		11	37.70	113.76	7	56	47.0	623.6
20		13	31.46	113.91	8	7	10.6	621.9
21		15	25.37	114.04		17	32.5	620.3
22		17	19.41	114.20		27	52.8	618.4
23		19	13.61	114.36		38	11.2	616.5
	9月21日							
0	14	21	7.97	114.51	− 8	48	27.7	−614.8
1		23	2.48	114.67		8	58	42.5	612.7
2		24	57.15	114.84		9	8	55.2	610.8
3		26	51.99	114.99			19	6.0	608.8
4		28	46.98	115.17			29	14.8	606.9
5		30	42.15	115.32			39	21.7	604.6
6	14	32	37.47	115.50	− 9	49	26.3	−602.5
7		34	32.97	115.68		9	59	28.8	600.3
8		36	28.65	115.86		10	9	29.1	598.1
9		38	24.51	116.03			19	27.2	595.9
10		40	20.54	116.22			29	23.1	593.6
11		42	16.76	116.39			39	16.7	591.1
12	14	44	13.15	116.59	−10	49	7.8	−588.8
13		46	9.74	116.78		10	58	56.6	586.4
14		48	6.52	116.97		11	8	43.0	583.9
15		50	3.49	117.16			18	26.9	581.2
16		52	0.65	117.37			28	8.1	578.7
17		53	58.02	117.56			37	46.8	576.1
18	14	55	55.58	117.77	−11	47	22.9	−573.4
19		57	53.35	117.97		11	56	56.3	570.6
20	14	59	51.32	118.18		12	6	26.9	567.9
21	15	1	49.50	118.39			15	54.8	565.1
22		3	47.89	118.60			25	19.9	562.3
23		5	46.49	118.82			34	42.2	559.2
24	15	7	45.31		−12	44	1.4	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
9月22日								
0	15	7	45.31	119.03	−12	44	1.4	−556.3
1		9	44.34	119.25	12	53	17.7	553.3
2		11	43.59	119.48	13	2	31.0	550.3
3		13	43.07	119.70		11	41.3	547.1
4		15	42.77	119.94		20	48.4	544.0
5		17	42.71	120.15		29	52.4	540.8
6	15	19	42.86	120.39	−13	38	53.2	−537.7
7		21	43.25	120.62		47	50.9	534.2
8		23	43.87	120.86	13	56	45.1	530.9
9		25	44.73	121.09	14	5	36.0	527.5
10		27	45.82	121.34		14	23.5	524.1
11		29	47.16	121.57		23	7.6	520.5
12	15	31	48.73	121.82	−14	31	48.1	−517.0
13		33	50.55	122.06		40	25.1	513.4
14		35	52.61	122.31		48	58.5	509.9
15		37	54.92	122.56	14	57	28.4	506.0
16		39	57.48	122.81	15	5	54.4	502.3
17		42	0.29	123.07		14	16.7	498.5
18	15	44	3.36	123.32	−15	22	35.2	−494.6
19		46	6.68	123.58		30	49.8	490.8
20		48	10.26	123.84		39	0.6	486.9
21		50	14.10	124.09		47	7.5	482.8
22		52	18.19	124.36	15	55	10.3	478.8
23		54	22.55	124.62	16	3	9.1	474.6
9月23日								
0	15	56	27.17	124.89	−16	11	3.7	−470.6
1	15	58	32.06	125.15		18	54.3	466.3
2	16	0	37.21	125.42		26	40.6	462.1
3		2	42.63	125.68		34	22.7	457.6
4		4	48.31	125.96		42	0.3	453.4
5		6	54.27	126.23		49	33.7	448.9
6	16	9	0.50	126.51	−16	57	2.6	−444.5
7		11	7.01	126.78	17	4	27.1	439.9
8		13	13.79	127.06		11	47.0	435.4
9		15	20.85	127.33		19	2.4	430.7
10		17	28.18	127.61		26	13.1	426.1
11		19	35.79	127.89		33	19.2	421.3
12	16	21	43.68	128.17	−17	40	20.5	−416.5
13		23	51.85	128.45		47	17.0	411.7
14		26	0.30	128.73	17	54	8.7	406.9
15		28	9.03	129.01	18	0	55.6	401.8
16		30	18.04	129.30		7	37.4	396.9
17		32	27.34	129.58		14	14.3	391.8
18	16	34	36.92	129.87	−18	20	46.1	−386.7
19		36	46.79	130.14		27	12.8	381.5
20		38	56.93	130.44		33	34.3	376.3
21		41	7.37	130.71		39	50.6	371.1
22		43	18.08	131.01		46	1.7	365.7
23		45	29.09	131.29		52	7.4	360.3
9月24日								
0	16	47	40.38	131.59	−18	58	7.7	−354.9
1		49	51.97	131.86	19	4	2.6	349.4
2		52	3.83	132.16		9	52.0	343.9
3		54	15.99	132.43		15	35.9	338.3
4		56	28.42	132.73		21	14.2	332.7
5	16	58	41.15	133.00		26	46.9	326.9
6	17	0	54.15	133.30	−19	32	13.8	−321.2
7		3	7.45	133.57		37	35.0	315.4
8		5	21.02	133.87		42	50.4	309.6
9		7	34.89	134.15		48	0.0	303.5
10		9	49.04	134.44		53	3.5	297.6
11		12	3.48	134.72	19	58	1.1	−291.6
12	17	14	18.20		−20	2	52.7	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
9月24日								
12	17	14	18.20	135.01	−20	2	52.7	−285.6
13		16	33.21	135.28		7	38.3	279.4
14		18	48.49	135.57		12	17.7	273.2
15		21	4.06	135.84		16	50.9	267.0
16		23	19.90	136.13		21	17.9	260.8
17		25	36.03	136.41		25	38.7	254.3
18	17	27	52.44	136.68	−20	29	53.0	−248.0
19		30	9.12	136.96		34	1.0	241.6
20		32	26.08	137.23		38	2.6	235.1
21		34	43.31	137.51		41	57.7	228.5
22		37	0.82	137.78		45	46.2	222.0
23		39	18.60	138.05		49	28.2	215.3
9月25日								
0	17	41	36.65	138.33	−20	53	3.5	−208.7
1		43	54.98	138.58		56	32.2	201.8
2		46	13.56	138.86	20	59	54.0	195.1
3		48	32.42	139.12	21	3	9.1	188.3
4		50	51.54	139.38		6	17.4	181.5
5		53	10.92	139.64		9	18.9	174.4
6	17	55	30.56	139.89	−21	12	13.3	−167.5
7	17	57	50.45	140.15		15	0.8	160.5
8	18	0	10.60	140.40		17	41.3	153.4
9		2	31.00	140.66		20	14.7	146.2
10		4	51.66	140.91		22	40.9	139.1
11		7	12.57	141.15		25	0.0	131.9
12	18	9	33.72	141.40	−21	27	11.9	−124.8
13		11	55.12	141.63		29	16.7	117.3
14		14	16.75	141.87		31	14.0	110.0
15		16	38.62	142.11		33	4.0	102.6
16		19	0.73	142.34		34	46.6	95.2
17		21	23.07	142.58		36	21.8	87.7
18	18	23	45.65	142.80	−21	37	49.5	− 80.3
19		26	8.45	143.02		39	9.8	72.6
20		28	31.47	143.24		40	22.4	65.1
21		30	54.71	143.46		41	27.5	57.5
22		33	18.17	143.67		42	25.0	49.9
23		35	41.84	143.89		43	14.9	42.0
9月26日								
0	18	38	5.73	144.10	−21	43	56.9	− 34.4
1		40	29.83	144.29		44	31.3	26.6
2		42	54.12	144.50		44	57.9	18.8
3		45	18.62	144.69		45	16.7	11.0
4		47	43.31	144.89		45	27.7	− 3.2
5		50	8.20	145.08		45	30.9	+ 4.8
6	18	52	33.28	145.27	−21	45	26.1	+ 12.7
7		54	58.55	145.44		45	13.4	20.7
8		57	23.99	145.62		44	52.7	28.7
9	18	59	49.61	145.80		44	24.0	36.6
10	19	2	15.41	145.97		43	47.4	44.8
11		4	41.38	146.13		43	2.6	52.7
12	19	7	7.51	146.30	−21	42	9.9	+ 60.9
13		9	33.81	146.45		41	9.0	69.0
14		12	0.26	146.61		40	0.0	77.1
15		14	26.87	146.76		38	42.9	85.3
16		16	53.63	146.91		37	17.6	93.5
17		19	20.54	147.05		35	44.1	101.6
18	19	21	47.59	147.18	−21	34	2.5	+110.0
19		24	14.77	147.32		32	12.5	118.1
20		26	42.09	147.46		30	14.4	126.4
21		29	9.55	147.57		28	8.0	134.6
22		31	37.12	147.69		25	53.4	143.0
23		34	4.81	147.81		23	30.4	+151.2
24	19	36	32.62		−21	20	59.2	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
9月27日								
0	19	36	32.62	147.93	−21	20	59.2	+159.5
1		39	0.55	148.02		18	19.7	167.8
2		41	28.57	148.14		15	31.9	176.2
3		43	56.71	148.23		12	35.7	184.5
4		46	24.94	148.33		9	31.2	192.9
5		48	53.27	148.41		6	18.3	201.2
6	19	51	21.68	148.50	−21	2	57.1	+209.5
7		53	50.18	148.58	20	59	27.6	217.9
8		56	18.76	148.66		55	49.7	226.2
9	19	58	47.42	148.74		52	3.5	234.6
10	20	1	16.16	148.80		48	8.9	242.9
11		3	44.96	148.86		44	6.0	251.2
12	20	6	13.82	148.92	−20	39	54.8	+259.6
13		8	42.74	148.97		35	35.2	267.9
14		11	11.71	149.03		31	7.3	276.2
15		13	40.74	149.07		26	31.1	284.6
16		16	9.81	149.12		21	46.5	293.0
17		18	38.93	149.15		16	53.5	301.1
18	20	21	8.08	149.19	−20	11	52.4	+309.4
19		23	37.27	149.22		6	43.0	317.6
20		26	6.49	149.25	20	1	25.4	326.0
21		28	35.74	149.26	19	55	59.4	334.1
22		31	5.00	149.28		50	25.3	342.4
23		33	34.28	149.29		44	42.9	350.6
9月28日								
0	20	36	3.57	149.31	−19	38	52.3	+358.7
1		38	32.88	149.30		32	53.6	366.9
2		41	2.18	149.31		26	46.7	375.0
3		43	31.49	149.31		20	31.7	383.1
4		46	0.80	149.31		14	8.6	391.3
5		48	30.11	149.28		7	37.3	399.2
6	20	50	59.39	149.28	−19	0	58.1	+407.2
7		53	28.67	149.26	18	54	10.9	415.2
8		55	57.93	149.24		47	15.7	423.1
9	20	58	27.17	149.21		40	12.6	431.1
10	21	0	56.38	149.19		33	1.5	439.0
11		3	25.57	149.14		25	42.5	446.7
12	21	5	54.71	149.12	−18	18	15.8	+454.6
13		8	23.83	149.07		10	41.2	462.3
14		10	52.90	149.05	18	2	58.9	470.1
15		13	21.95	148.99	17	55	8.8	477.7
16		15	50.94	148.95		47	11.1	485.4
17		18	19.89	148.89		39	5.7	492.9
18	21	20	48.78	148.85	−17	30	52.8	+500.5
19		23	17.63	148.78		22	32.3	507.9
20		25	46.41	148.73		14	4.4	515.4
21		28	15.14	148.66	17	5	29.0	522.7
22		30	43.80	148.60	16	56	46.3	530.1
23		33	12.40	148.53		47	56.2	537.3
9月29日								
0	21	35	40.93	148.47	−16	38	58.9	+544.6
1		38	9.40	148.38		29	54.3	551.7
2		40	37.78	148.32		20	42.6	558.9
3		43	6.10	148.24		11	23.7	565.8
4		45	34.34	148.16	16	1	57.9	572.8
5		48	2.50	148.08	15	52	25.1	579.8
6	21	50	30.58	148.00	−15	42	45.3	+586.6
7		52	58.58	147.91		32	58.7	593.4
8		55	26.49	147.82		23	5.3	600.2
9	21	57	54.31	147.74		13	5.1	606.7
10	22	0	22.05	147.66	15	2	58.4	613.4
11		2	49.71	147.55	14	52	45.0	+619.9
12	22	5	17.26		−14	42	25.1	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
9月29日								
12	22	5	17.26	147.47	−14	42	25.1	+626.3
13		7	44.73	147.36		31	58.8	632.7
14		10	12.09	147.28		21	26.1	639.1
15		12	39.37	147.18		10	47.0	645.2
16		15	6.55	147.08	14	0	1.8	651.5
17		17	33.63	146.98	13	49	10.3	657.4
18	22	20	0.61	146.89	−13	38	12.9	+663.4
19		22	27.50	146.78		27	9.5	669.4
20		24	54.28	146.68		16	0.1	675.2
21		27	20.96	146.57	13	4	44.9	680.9
22		29	47.53	146.47	12	53	24.0	686.6
23		32	14.00	146.37		41	57.4	692.2
9月30日								
0	22	34	40.37	146.26	−12	30	25.2	+697.8
1		37	6.63	146.16		18	47.4	703.1
2		39	32.79	146.05	12	7	4.3	708.5
3		41	58.84	145.95	11	55	15.8	713.7
4		44	24.79	145.84		43	22.1	718.9
5		46	50.63	145.73		31	23.2	723.9
6	22	49	16.36	145.63	−11	19	19.3	+728.9
7		51	41.99	145.52	11	7	10.4	733.7
8		54	7.51	145.41	10	54	56.7	738.6
9		56	32.92	145.31		42	38.1	743.3
10	22	58	58.23	145.20		30	14.8	747.9
11	23	1	23.43	145.10		17	46.9	752.4
12	23	3	48.53	144.99	−10	5	14.5	+756.8
13		6	13.52	144.89	9	52	37.7	761.2
14		8	38.41	144.78		39	56.5	765.4
15		11	3.19	144.68		27	11.1	769.5
16		13	27.87	144.57		14	21.6	773.5
17		15	52.44	144.47	9	1	28.1	777.5
18	23	18	16.91	144.38	− 8	48	30.6	+781.3
19		20	41.29	144.27		35	29.3	785.0
20		23	5.56	144.17		22	24.3	788.6
21		25	29.73	144.07	8	9	15.7	792.2
22		27	53.80	143.97	7	56	3.5	795.6
23		30	17.77	143.87		42	47.9	798.9
10月1日								
0	23	32	41.64	143.78	− 7	29	29.0	+802.1
1		35	5.42	143.68		16	6.9	805.3
2		37	29.10	143.60	7	2	41.6	808.3
3		39	52.70	143.49	6	49	13.3	811.2
4		42	16.19	143.41		35	42.1	814.0
5		44	39.60	143.30		22	8.1	816.7
6	23	47	2.90	143.23	− 6	8	31.4	+819.3
7		49	26.13	143.14	5	54	52.1	821.9
8		51	49.27	143.05		41	10.2	824.3
9		54	12.32	142.97		27	25.9	826.4
10		56	35.29	142.88	5	13	39.5	828.7
11	23	58	58.17	142.80	4	59	50.8	830.7
12	0	1	20.97	142.72	− 4	46	0.1	+832.7
13		3	43.69	142.64		32	7.4	834.5
14		6	6.33	142.57		18	12.9	836.3
15		8	28.90	142.49	4	4	16.6	837.9
16		10	51.39	142.42	3	50	18.7	839.5
17		13	13.81	142.34		35	19.2	840.8
18	0	15	36.15	142.27	− 3	22	18.4	+842.2
19		17	58.42	142.20		8	16.2	843.4
20		20	20.62	142.14	2	54	12.8	844.5
21		22	42.76	142.08		40	8.3	845.5
22		25	4.84	142.01		26	2.8	846.4
23		27	26.85	141.95	2	11	56.4	+847.1
24	0	29	48.80		− 1	57	49.3	

10 月 2 日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	0	29	48.80	141.89	− 1	57	49.3	+847.8
1		32	10.69	141.83		43	41.5	848.4
2		34	32.52	141.78		29	33.1	848.8
3		36	54.30	141.72		15	24.3	849.2
4		39	16.02	141.68	1	1	15.1	849.4
5		41	37.70	141.61	0	47	5.7	849.6
6	0	43	59.31	141.57	− 0	32	56.1	+849.6
7		46	20.88	141.53		18	46.5	849.3
8		48	42.41	141.49	− 0	4	37.2	849.2
9		51	3.90	141.44	+ 0	9	32.0	849.0
10		53	25.34	141.40		23	41.0	848.6
11		55	46.74	141.36		37	49.6	848.0
12	0	58	8.10	141.33	+ 0	51	57.6	+847.4
13	1	0	29.43	141.29	1	6	5.0	846.6
14		2	50.72	141.27		20	11.6	845.9
15		5	11.99	141.22		34	17.5	844.9
16		7	33.21	141.20	1	48	22.4	843.9
17		9	54.41	141.18	2	2	26.3	842.6
18	1	12	15.59	141.15	+ 2	16	28.9	+841.5
19		14	36.74	141.13		30	30.4	840.0
20		16	57.87	141.11		44	30.4	838.7
21		19	18.98	141.08	2	58	29.1	837.0
22		21	40.06	141.07	3	12	26.1	835.4
23		24	1.13	141.05		26	21.5	833.5

10 月 3 日

0	1	26	22.18	141.05	+ 3	40	15.0	+831.7
1		28	43.23	141.02	3	54	6.7	829.8
2		31	4.25	141.03	4	7	56.5	827.7
3		33	25.28	141.00		21	44.2	825.5
4		35	46.28	141.00		35	29.7	823.3
5		38	7.28	140.99	4	49	13.0	820.9
6	1	40	28.27	141.00	+ 5	2	53.9	+818.5
7		42	49.27	140.99		16	32.4	815.8
8		45	10.26	141.00		30	8.2	813.2
9		47	31.26	140.99		43	41.4	810.4
10		49	52.25	141.00	5	57	11.8	807.6
11		52	13.25	141.00	6	10	39.4	804.6
12	1	54	34.25	141.02	+ 6	24	4.0	+801.7
13		56	55.27	141.01		37	25.7	798.4
14	1	59	16.28	141.02	6	50	44.1	795.3
15	2	1	37.30	141.04	7	3	59.4	791.8
16		3	58.34	141.05		17	11.2	788.6
17		6	19.39	141.06		30	19.8	784.9
18	2	8	40.45	141.08	+ 7	43	24.7	+781.4
19		11	1.53	141.09	7	56	26.1	777.7
20		13	22.62	141.11	8	9	23.8	774.0
21		15	43.73	141.13		22	17.8	770.1
22		18	4.86	141.15		35	7.9	766.2
23		20	26.01	141.16	8	47	54.1	762.1

10 月 4 日

0	2	22	47.17	141.19	+ 9	0	36.2	+758.0
1		25	8.36	141.20		13	14.2	753.8
2		27	29.56	141.24		25	48.0	749.6
3		29	50.80	141.25		38	17.6	745.2
4		32	12.05	141.29	9	50	42.8	740.8
5		34	33.34	141.30	10	3	3.6	736.2
6	2	36	54.64	141.34	+10	15	19.8	+731.6
7		39	15.98	141.35		27	31.4	727.0
8		41	37.33	141.39		39	38.4	722.2
9		43	58.72	141.41	10	51	40.6	717.4
10		46	20.13	141.44	11	3	38.0	712.4
11		48	41.57	141.48		15	30.4	707.4
12	2	51	3.05		+11	27	17.8	

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
12	2	51	3.05	141.51	+11	27	17.8	+702.5
13		53	24.56	141.53		39	0.3	697.2
14		55	46.09	141.56	11	50	37.5	692.1
15	2	58	7.65	141.59	12	2	9.6	686.8
16	3	0	29.24	141.62		13	36.4	681.5
17		2	50.86	141.66		24	57.9	676.0
18	3	5	12.52	141.69	+12	36	13.9	+670.7
19		7	34.21	141.71		47	24.6	665.0
20		9	55.92	141.74	12	58	29.6	659.4
21		12	17.66	141.77	13	9	29.0	653.8
22		14	39.43	141.80		20	22.8	648.0
23		17	1.23	141.84		31	10.8	642.2

10 月 5 日

0	3	19	23.07	141.87	+13	41	53.0	+636.4
1		21	44.94	141.89	13	52	29.4	630.4
2		24	6.83	141.93	14	2	59.8	624.4
3		26	28.76	141.94		13	24.2	618.4
4		28	50.70	141.98		23	42.6	612.4
5		31	12.68	142.00		33	55.0	606.1
6	3	33	34.68	142.04	+14	44	1.1	+600.0
7		35	56.72	142.05	14	54	1.1	593.8
8		38	18.77	142.08	15	3	54.9	587.4
9		40	40.85	142.10		13	42.3	581.0
10		43	2.95	142.13		23	23.3	574.6
11		45	25.08	142.15		32	57.9	568.2
12	3	47	47.23	142.17	+15	42	26.1	+561.7
13		50	9.40	142.19	15	51	47.8	555.0
14		52	31.59	142.21	16	1	2.8	548.5
15		54	53.80	142.23		10	11.3	541.8
16		57	16.03	142.25		19	13.1	535.2
17	3	59	38.28	142.26		28	8.3	528.4
18	4	2	0.54	142.27	+16	36	56.7	+521.6
19		4	22.81	142.29		45	38.3	514.8
20		6	45.10	142.30	16	54	13.1	508.1
21		9	7.40	142.31	17	2	41.2	501.0
22		11	29.71	142.32		11	2.2	494.1
23		13	52.03	142.32		19	16.3	487.1

10 月 6 日

0	4	16	14.35	142.33	+17	27	23.4	+480.2
1		18	36.68	142.33		35	23.6	473.1
2		20	59.01	142.33		43	16.7	466.1
3		23	21.34	142.33		51	2.8	458.9
4		25	43.67	142.33	17	58	41.7	451.8
5		28	6.00	142.32	18	6	13.5	444.6
6	4	30	28.32	142.31	+18	13	38.1	+437.4
7		32	50.63	142.30		20	55.5	430.2
8		35	12.93	142.30		28	5.7	423.0
9		37	35.23	142.28		35	8.7	415.7
10		39	57.51	142.27		42	4.4	408.5
11		42	19.78	142.24		48	52.9	401.0
12	4	44	42.02	142.23	+18	55	33.9	+393.8
13		47	4.25	142.20	19	2	7.7	386.4
14		49	26.45	142.18		8	34.1	379.1
15		51	48.63	142.15		14	53.2	371.6
16		54	10.78	142.12		21	4.8	364.2
17		56	32.90	142.08		27	9.0	356.8
18	4	58	54.98	142.06	+19	33	5.8	+349.3
19	5	1	17.04	142.01		38	55.1	341.8
20		3	39.05	141.98		44	36.9	334.4
21		6	1.03	141.93		50	11.3	327.0
22		8	22.96	141.89	19	55	38.3	319.5
23		10	44.85	141.84	20	0	57.8	+311.8
24	5	13	6.69		+20	6	9.6	

10 月 7 日

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
0	5	13	6.69	141.79	+20	6	9.6	+304.5
1		15	28.48	141.73		11	14.1	296.8
2		17	50.21	141.68		16	10.9	289.4
3		20	11.89	141.62		21	0.3	281.7
4		22	33.51	141.56		25	42.0	274.3
5		24	55.07	141.50		30	16.3	266.7
6	5	27	16.57	141.43	+20	34	43.0	+259.2
7		29	38.00	141.35		39	2.2	251.5
8		31	59.35	141.28		43	13.7	244.1
9		34	20.63	141.20		47	17.8	236.5
10		36	41.83	141.13		51	14.3	229.0
11		39	2.96	141.04		55	3.3	221.4
12	5	41	24.00	140.96	+20	58	44.7	+213.9
13		43	44.96	140.87	21	2	18.6	206.2
14		46	5.83	140.79		5	44.8	198.8
15		48	26.62	140.68		9	3.6	191.2
16		50	47.30	140.60		12	14.8	183.8
17		53	7.90	140.49		15	18.6	176.1
18	5	55	28.39	140.39	+21	18	14.7	+168.8
19	5	57	48.78	140.28		21	3.5	161.1
20	6	0	9.06	140.19		23	44.6	153.8
21		2	29.25	140.06		26	18.4	146.1
22		4	49.31	139.95		28	44.5	138.7
23		7	9.26	139.83		31	3.2	131.2

10 月 8 日

0	6	9	29.09	139.72	+21	33	14.4	+123.8
1		11	48.81	139.59		35	18.2	116.4
2		14	8.40	139.47		37	14.6	109.0
3		16	27.87	139.33		39	3.6	101.5
4		18	47.20	139.21		40	45.1	94.2
5		21	6.41	139.06		42	19.3	86.8
6	6	23	25.47	138.94	+21	43	46.1	+ 79.5
7		25	44.41	138.79		45	5.6	72.0
8		28	3.20	138.65		46	17.6	64.8
9		30	21.85	138.51		47	22.4	57.5
10		32	40.36	138.36		48	19.9	50.2
11		34	58.72	138.21		49	10.1	43.0
12	6	37	16.93	138.05	+21	49	53.1	+ 35.7
13		39	34.98	137.91		50	28.8	28.5
14		41	52.89	137.74		50	57.3	21.4
15		44	10.63	137.58		51	18.7	14.1
16		46	28.21	137.42		51	32.8	+ 7.1
17		48	45.63	137.26		51	39.9	− 0.1
18	6	51	2.89	137.09	+21	51	39.8	− 7.2
19		53	19.98	136.90		51	32.6	14.2
20		55	36.88	136.75		51	18.4	21.3
21	6	57	53.63	136.56		50	57.1	28.2
22	7	0	10.19	136.39		50	28.9	35.2
23		2	26.58	136.20		49	53.7	42.2

10 月 9 日

0	7	4	42.78	136.03	+21	49	11.5	− 49.1
1		6	58.81	135.84		48	22.4	56.0
2		9	14.65	135.65		47	26.4	62.9
3		11	30.30	135.47		46	23.5	69.7
4		13	45.77	135.28		45	13.8	76.5
5		16	1.05	135.08		43	57.3	83.3
6	7	18	16.13	134.89	+21	42	34.0	− 89.9
7		20	31.02	134.68		41	4.1	96.7
8		22	45.70	134.50		39	27.4	103.4
9		25	0.20	134.29		37	44.0	110.0
10		27	14.49	134.09		35	54.0	116.6
11		29	28.58	133.89		33	57.4	−123.2
12	7	31	42.47		+21	31	54.2	

世界時	赤経				赤緯			
h	h	m	s	s	°	′	″	″
12	7	31	42.47	133.68	+21	31	54.2	−129.7
13		33	56.15	133.48		29	44.5	136.2
14		36	9.63	133.27		27	28.3	142.7
15		38	22.90	133.06		25	5.6	149.1
16		40	35.96	132.86		22	36.5	155.5
17		42	48.82	132.63		20	1.0	161.9
18	7	45	1.45	132.43	+21	17	19.1	−168.2
19		47	13.88	132.20		14	30.9	174.4
20		49	26.08	132.00		11	36.5	180.8
21		51	38.08	131.77		8	35.7	186.9
22		53	49.85	131.56		5	28.8	193.1
23		56	1.41	131.33	21	2	15.7	199.2

10 月 10 日

0	7	58	12.74	131.12	+20	58	56.5	−205.4
1	8	0	23.86	130.89		55	31.1	211.3
2		2	34.75	130.67		51	59.8	217.4
3		4	45.42	130.45		48	22.4	223.4
4		6	55.87	130.23		44	39.0	229.3
5		9	6.10	130.00		40	49.7	235.3
6	8	11	16.10	129.78	+20	36	54.4	−241.1
7		13	25.88	129.55		32	53.3	246.9
8		15	35.43	129.32		28	46.4	252.7
9		17	44.75	129.10		24	33.7	258.5
10		19	53.85	128.87		20	15.2	264.3
11		22	2.72	128.64		15	50.9	269.8
12	8	24	11.36	128.41	+20	11	21.1	−275.5
13		26	19.77	128.19		6	45.6	281.0
14		28	27.96	127.96	20	2	4.6	286.6
15		30	35.92	127.73	19	57	18.0	292.1
16		32	43.65	127.51		52	25.9	297.6
17		34	51.16	127.26		47	28.3	303.0
18	8	36	58.42	127.04	+19	42	25.3	−308.4
19		39	5.46	126.81		37	16.9	313.7
20		41	12.27	126.58		32	3.2	319.1
21		43	18.85	126.35		26	44.1	324.3
22		45	25.20	126.12		21	19.8	329.5
23		47	31.32	125.91		15	50.3	334.6

10 月 11 日

0	8	49	37.23	125.67	+19	10	15.7	−339.8
1		51	42.90	125.44	19	4	35.9	344.9
2		53	48.34	125.22	18	58	51.0	350.0
3		55	53.56	124.99		53	1.0	354.9
4	8	57	58.55	124.76		47	6.1	359.9
5	9	0	3.31	124.53		41	6.2	364.9
6	9	2	7.84	124.31	+18	35	1.3	−369.8
7		4	12.15	124.08		28	51.5	374.6
8		6	16.23	123.86		22	36.9	379.4
9		8	20.09	123.64		16	17.5	384.2
10		10	23.73	123.41		9	53.3	388.9
11		12	27.14	123.19	18	3	24.4	393.5
12	9	14	30.33	122.97	+17	56	50.9	−398.2
13		16	33.30	122.75		50	12.7	402.8
14		18	36.05	122.53		43	29.9	407.4
15		20	38.58	122.31		36	42.5	411.9
16		22	40.89	122.10		29	50.6	416.4
17		24	42.99	121.88		22	54.2	420.8
18	9	26	44.87	121.67	+17	15	53.4	−425.2
19		28	46.54	121.44		8	48.2	429.5
20		30	47.98	121.24	17	1	38.7	433.9
21		32	49.22	121.02	16	54	24.8	438.0
22		34	50.24	120.81		47	6.8	442.3
23		36	51.05	120.61		39	44.5	446.5
24	9	38	51.66		+16	32	18.0	

世界時	赤経				赤緯			
	10月12日							
h	h	m	s	s	°	′	″	″
0	9	38	51.66	120.40	+16	32	18.0	−450.6
1		40	52.06	120.19		24	47.4	454.7
2		42	52.25	119.99		17	12.7	458.9
3		44	52.24	119.78		9	33.8	462.8
4		46	52.02	119.58	16	1	51.0	466.8
5		48	51.60	119.38	15	54	4.2	470.8
6	9	50	50.98	119.19	+15	46	13.4	−474.7
7		52	50.17	118.99		38	18.7	478.5
8		54	49.16	118.79		30	20.2	482.4
9		56	47.95	118.59		22	17.8	486.1
10	9	58	46.54	118.41		14	11.7	489.8
11	10	0	44.95	118.20	15	6	1.9	493.5
12	10	2	43.15	118.02	+14	57	48.4	−497.3
13		4	41.17	117.84		49	31.1	500.8
14		6	39.01	117.65		41	10.3	504.4
15		8	36.66	117.46		32	45.9	507.9
16		10	34.12	117.28		24	18.0	511.5
17		12	31.40	117.10		15	46.5	514.8
18	10	14	28.50	116.93	+14	7	11.7	−518.3
19		16	25.43	116.75	13	58	33.4	521.7
20		18	22.18	116.58		49	51.7	525.0
21		20	18.76	116.39		41	6.7	528.3
22		22	15.15	116.23		32	18.4	531.6
23		24	11.38	116.06		23	26.8	534.8
	10月13日							
0	10	26	7.44	115.89	+13	14	32.0	−538.0
1		28	3.33	115.73	13	5	34.0	541.1
2		29	59.06	115.57	12	56	32.9	544.3
3		31	54.63	115.41		47	28.6	547.2
4		33	50.04	115.26		38	21.4	550.3
5		35	45.30	115.09		29	11.1	553.2
6	10	37	40.39	114.95	+12	19	57.9	−556.2
7		39	35.34	114.78		10	41.7	559.1
8		41	30.12	114.64	12	1	22.6	562.0
9		43	24.76	114.49	11	52	0.6	564.8
10		45	19.25	114.35		42	35.8	567.6
11		47	13.60	114.20		33	8.2	570.4
12	10	49	7.80	114.07	+11	23	37.8	−573.1
13		51	1.87	113.92		14	4.7	575.7
14		52	55.79	113.80	11	4	29.0	578.4
15		54	49.59	113.65	10	54	50.6	580.9
16		56	43.24	113.52		45	9.7	583.5
17	10	58	36.76	113.40		35	26.2	586.1
18	11	0	30.16	113.27	+10	25	40.1	−588.5
19		2	23.43	113.15		15	51.6	590.9
20		4	16.58	113.03	10	6	0.7	593.3
21		6	9.61	112.90	9	56	7.4	595.7
22		8	2.51	112.80		46	11.7	598.0
23		9	55.31	112.67		36	13.7	600.4
	10月14日							
0	11	11	47.98	112.57	+ 9	26	13.3	−602.6
1		13	40.55	112.45		16	10.7	604.8
2		15	33.00	112.35	9	6	5.9	606.9
3		17	25.35	112.24	8	55	59.0	609.1
4		19	17.59	112.14		45	49.9	611.3
5		21	9.73	112.04		35	38.6	613.2
6	11	23	1.77	111.95	+ 8	25	25.4	−615.2
7		24	53.72	111.85		15	10.2	617.2
8		26	45.57	111.77	8	4	53.0	619.2
9		28	37.34	111.66	7	54	33.8	621.1
10		30	29.00	111.58		44	12.7	623.0
11		32	20.58	111.50		33	49.7	−624.7
12	11	34	12.03		+ 7	23	25.0	

世界時	赤経				赤緯			
	10月14日							
h	h	m	s	s	°	′	″	″
12	11	34	12.08	111.42	+ 7	23	25.0	−626.6
13		36	3.50	111.34		12	58.4	628.3
14		37	54.84	111.27	7	2	30.1	630.1
15		39	46.11	111.18	6	52	0.0	631.7
16		41	37.29	111.12		41	28.3	633.4
17		43	28.41	111.05		30	54.9	634.9
18	11	45	19.46	110.99	+ 6	20	20.0	−636.5
19		47	10.45	110.93	6	9	43.5	638.0
20		49	1.38	110.86	5	59	5.5	639.6
21		50	52.24	110.80		48	25.9	640.9
22		52	43.04	110.76		37	45.0	642.4
23		54	33.80	110.69		27	2.6	643.7
	10月15日							
0	11	56	24.49	110.65	+ 5	16	18.9	−645.2
1	11	58	15.14	110.60		5	33.7	646.3
2	12	0	5.74	110.56	4	54	47.4	647.7
3		1	56.30	110.51		43	59.7	648.8
4		3	46.81	110.48		33	10.9	650.0
5		5	37.29	110.44		22	20.9	651.1
6	12	7	27.73	110.42	+ 4	11	29.8	−652.3
7		9	18.15	110.37	4	0	37.5	653.3
8		11	8.52	110.35	3	49	44.2	654.4
9		12	58.87	110.32		38	49.8	655.3
10		14	49.19	110.30		27	54.5	656.3
11		16	39.49	110.28		16	58.2	657.2
12	12	18	29.77	110.27	+ 3	6	1.0	−658.1
13		20	20.04	110.24	2	55	2.9	658.9
14		22	10.28	110.24		44	4.0	659.7
15		24	0.52	110.24		33	4.3	660.4
16		25	50.76	110.22		22	3.9	661.3
17		27	40.98	110.22		11	2.6	661.8
18	12	29	31.20	110.23	+ 2	0	0.8	−662.5
19		31	21.43	110.22	1	48	58.3	663.0
20		33	11.65	110.24		37	55.3	663.6
21		35	1.89	110.23		26	51.7	664.2
22		36	52.12	110.24		15	47.5	664.7
23		38	42.36	110.26	1	4	42.8	665.1
	10月16日							
0	12	40	32.62	110.28	+ 0	53	37.7	−665.5
1		42	22.90	110.29		42	32.2	665.8
2		44	13.19	110.32		31	26.4	666.2
3		46	3.51	110.34		20	20.2	666.4
4		47	53.85	110.36	+ 0	9	13.8	666.7
5		49	44.21	110.40	− 0	1	52.9	666.9
6	12	51	34.61	110.44	− 0	12	59.8	−667.0
7		53	25.05	110.47		24	6.8	667.1
8		55	15.52	110.51		35	13.9	667.3
9		57	6.03	110.54		46	21.2	667.2
10	12	58	56.57	110.59	0	57	28.4	667.3
11	13	0	47.16	110.63	1	8	35.7	667.3
12	13	2	37.79	110.68	− 1	19	43.0	−667.2
13		4	28.47	110.74		30	50.2	667.0
14		6	19.21	110.79		41	57.2	666.9
15		8	10.00	110.85	1	53	4.1	666.7
16		10	0.85	110.92	2	4	10.8	666.4
17		11	51.77	110.97		15	17.2	666.2
18	13	13	42.74	111.05	− 2	26	23.4	−665.9
19		15	33.79	111.10		37	29.3	665.4
20		17	24.89	111.18		48	34.7	665.0
21		19	16.07	111.26	2	59	39.7	664.5
22		21	7.33	111.33	3	10	44.2	664.1
23		22	58.66	111.41		21	48.3	−663.5
24	13	24	50.07		− 3	32	51.8	

世界時	赤経				赤緯			
	10月17日							
h	h	m	s	s	°	′	″	″
0	13	24	50.07	111.50	− 3	32	51.8	−663.0
1		26	41.57	111.57		43	54.8	662.3
2		28	33.14	111.66	3	54	57.1	661.7
3		30	24.80	111.76	4	5	58.8	660.9
4		32	16.56	111.85		16	59.7	660.2
5		34	8.41	111.95		27	59.9	659.4
6	13	36	0.36	112.05	− 4	38	59.3	−658.6
7		37	52.41	112.14	4	49	57.9	657.7
8		39	44.55	112.25	5	0	55.6	656.8
9		41	36.80	112.35		11	52.4	655.7
10		43	29.15	112.46		22	48.1	654.8
11		45	21.61	112.58		33	42.9	653.7
12	13	47	14.19	112.69	− 5	44	36.6	−652.7
13		49	6.88	112.81	5	55	29.3	651.4
14		50	59.69	112.93	6	6	20.7	650.3
15		52	52.62	113.05		17	11.0	649.0
16		54	45.67	113.18		28	0.0	647.9
17		56	38.85	113.30		38	47.9	646.4
18	13	58	32.15	113.43	− 6	49	34.3	−645.1
19	14	0	25.58	113.56	7	0	19.4	643.6
20		2	19.14	113.70		11	3.0	642.2
21		4	12.84	113.84		21	45.2	640.7
22		6	6.68	113.98		32	25.9	639.2
23		8	0.66	114.12		43	5.1	637.6
	10月18日							
0	14	9	54.78	114.28	− 7	53	42.7	−635.9
1		11	49.06	114.41	8	4	18.6	634.2
2		13	43.47	114.56		14	52.8	632.6
3		15	38.03	114.72		25	25.4	630.7
4		17	32.75	114.88		35	56.1	628.9
5		19	27.63	115.03		46	25.0	627.1
6	14	21	22.66	115.20	− 8	56	52.1	−625.2
7		23	17.86	115.35	9	7	17.3	623.1
8		25	13.21	115.52		17	40.4	621.1
9		27	8.73	115.68		28	1.5	619.1
10		29	4.41	115.86		38	20.6	617.0
11		31	0.27	116.03		48	37.6	614.8
12	14	32	56.30	116.20	− 9	58	52.4	−612.6
13		34	52.50	116.38	10	9	5.0	610.4
14		36	48.88	116.56		19	15.4	608.1
15		38	45.44	116.74		29	23.5	605.7
16		40	42.18	116.93		39	29.2	603.4
17		42	39.11	117.11		49	32.6	600.9
18	14	44	36.22	117.31	−10	59	33.5	−598.4
19		46	33.53	117.48	11	9	31.9	595.8
20		48	31.01	117.68		19	27.7	593.3
21		50	28.69	117.87		29	21.0	590.6
22		52	26.56	118.07		39	11.6	588.0
23		54	24.63	118.27		48	59.6	585.1
	10月19日							
0	14	56	22.90	118.47	−11	58	44.7	−582.4
1	14	58	21.37	118.67	12	8	27.1	579.6
2	15	0	20.04	118.88		18	6.7	576.7
3		2	18.92	119.08		27	43.4	573.7
4		4	18.00	119.29		37	17.1	570.7
5		6	17.29	119.50		46	47.8	567.7
6	15	8	16.79	119.71	−12	56	15.5	−564.7
7		10	16.50	119.93	13	5	40.2	561.4
8		12	16.43	120.14		15	1.6	558.3
9		14	16.57	120.36		24	19.9	555.0
10		16	16.93	120.58		33	34.9	551.8
11		18	17.51	120.80		42	46.7	548.4
12	15	20	18.31		−13	51	55.1	

世界時	赤経				赤緯			
	10月19日							
h	h	m	s	s	°	′	″	″
12	15	20	18.31	121.02	−13	51	55.1	−545.0
13		22	19.33	121.25	14	1	0.1	541.6
14		24	20.58	121.48		10	1.7	538.1
15		26	22.06	121.69		18	59.8	534.5
16		28	23.75	121.92		27	54.3	530.9
17		30	25.67	122.16		36	45.2	527.3
18	15	32	27.83	122.39	−14	45	32.5	−523.7
19		34	30.22	122.63	14	54	16.2	519.8
20		36	32.85	122.86	15	2	56.0	516.0
21		38	35.71	123.09		11	32.0	512.2
22		40	38.80	123.33		20	4.2	508.3
23		42	42.13	123.57		28	32.5	504.3
	10月20日							
0	15	44	45.70	123.81	−15	36	56.8	−500.3
1		46	49.51	124.04		45	17.1	496.3
2		48	53.55	124.29	15	53	33.4	492.1
3		50	57.84	124.53	16	1	45.5	487.9
4		53	2.37	124.78		9	53.4	483.7
5		55	7.15	125.02		17	57.1	479.5
6	15	57	12.17	125.27	−16	25	56.6	−475.1
7	15	59	17.44	125.50		33	51.7	470.7
8	16	1	22.94	125.77		41	42.4	466.3
9		3	28.71	126.00		49	28.7	461.9
10		5	34.71	126.26	16	57	10.6	457.3
11		7	40.97	126.50	17	4	47.9	452.7
12	16	9	47.47	126.75	−17	12	20.6	−448.1
13		11	54.22	127.01		19	48.7	443.4
14		14	1.23	127.25		27	12.1	438.7
15		16	8.48	127.51		34	30.8	433.8
16		18	15.99	127.76		41	44.6	429.0
17		20	23.75	128.01		48	53.6	424.0
18	16	22	31.76	128.26	−17	55	57.6	−419.2
19		24	40.02	128.52	18	2	56.8	414.1
20		26	48.54	128.77		9	50.9	409.1
21		28	57.31	129.02		16	40.0	403.9
22		31	6.33	129.27		23	23.9	398.8
23		33	15.60	129.52		30	2.7	393.6
	10月21日							
0	16	35	25.12	129.77	−18	36	36.3	−388.4
1		37	34.89	130.03		43	4.7	382.9
2		39	44.92	130.28		49	27.6	377.7
3		41	55.20	130.53	18	55	45.3	372.2
4		44	5.73	130.78	19	1	57.5	366.8
5		46	16.51	131.04		8	4.3	361.2
6	16	48	27.55	131.29	−19	14	5.5	−355.7
7		50	38.84	131.53		20	1.2	350.0
8		52	50.37	131.79		25	51.2	344.4
9		55	2.16	132.02		31	35.6	338.6
10		57	14.18	132.28		37	14.2	332.9
11	16	59	26.46	132.52		42	47.1	327.1
12	17	1	38.98	132.78	−19	48	14.2	−321.3
13		3	51.76	133.01		53	35.5	315.2
14		6	4.77	133.26	19	58	50.7	309.4
15		8	18.03	133.50	20	4	0.1	303.3
16		10	31.53	133.75		9	3.4	297.4
17		12	45.28	133.98		14	0.8	291.1
18	17	14	59.26	134.22	−20	18	51.9	−285.1
19		17	13.48	134.46		23	37.0	278.8
20		19	27.94	134.70		28	15.8	272.7
21		21	42.64	134.93		32	48.5	266.2
22		23	57.57	135.17		37	14.7	259.9
23		26	12.74	135.40		41	34.6	−253.6
24	17	28	28.14		−20	45	48.2	

世界時	赤経 h	赤経 m	赤経 s	s	赤緯 °	赤緯 ′	赤緯 ″	″
10 月 22 日								
0	17	28	28.14	135.64	−20	45	48.2	−247.1
1		30	43.78	135.85		49	55.3	240.7
2		32	59.63	136.09		53	56.0	234.2
3		35	15.72	136.30	20	57	50.2	227.5
4		37	32.02	136.54	21	1	37.7	221.0
5		39	48.56	136.75		5	18.7	214.3
6	17	42	5.31	136.97	−21	8	53.0	−207.7
7		44	22.28	137.18		12	20.7	200.9
8		46	39.46	137.40		15	41.6	194.1
9		48	56.86	137.61		18	55.7	187.3
10		51	14.47	137.83		22	3.0	180.4
11		53	32.30	138.03		25	3.4	173.6
12	17	55	50.33	138.24	−21	27	57.0	−166.7
13	17	58	8.57	138.43		30	43.7	159.6
14	18	0	27.00	138.64		33	23.3	152.6
15		2	45.64	138.83		35	55.9	145.6
16		5	4.47	139.03		38	21.5	138.6
17		7	23.50	139.22		40	40.1	131.4
18	18	9	42.72	139.41	−21	42	51.5	−124.3
19		12	2.13	139.59		44	55.8	117.1
20		14	21.72	139.78		46	52.9	109.8
21		16	41.50	139.96		48	42.7	102.6
22		19	1.46	140.14		50	25.3	95.4
23		21	21.60	140.31		52	0.7	87.9
10 月 23 日								
0	18	23	41.91	140.49	−21	53	28.6	− 80.7
1		26	2.40	140.64		54	49.3	73.2
2		28	23.04	140.82		56	2.5	65.8
3		30	43.86	140.98		57	8.3	58.4
4		33	4.84	141.13		58	6.7	51.0
5		35	25.97	141.29		58	57.7	43.4
6	18	37	47.26	141.45	−21	59	41.1	− 35.9
7		40	8.71	141.58	22	0	17.0	28.3
8		42	30.29	141.74		0	45.3	20.8
9		44	52.03	141.87		1	6.1	13.1
10		47	13.90	142.02		1	19.2	− 5.6
11		49	35.92	142.15		1	24.8	+ 2.1
12	18	51	58.07	142.28	−22	1	22.7	+ 9.8
13		54	20.35	142.40		1	12.9	17.4
14		56	42.75	142.54		0	55.5	25.1
15	18	59	5.29	142.65	22	0	30.4	32.9
16	19	1	27.94	142.77	21	59	57.5	40.6
17		3	50.71	142.88		59	16.9	48.4
18	19	6	13.59	142.99	−21	58	28.5	+ 56.1
19		8	36.58	143.09		57	32.4	63.9
20		10	59.67	143.20		56	28.5	71.8
21		13	22.87	143.30		55	16.7	79.5
22		15	46.17	143.39		53	57.2	87.5
23		18	9.56	143.48		52	29.7	95.2
10 月 24 日								
0	19	20	33.04	143.57	−21	50	54.5	+103.2
1		22	56.61	143.65		49	11.3	110.9
2		25	20.26	143.73		47	20.4	118.9
3		27	43.99	143.81		45	21.5	126.7
4		30	7.80	143.88		43	14.8	134.6
5		32	31.68	143.95		41	0.2	142.4
6	19	34	55.63	144.02	−21	38	37.8	+150.4
7		37	19.65	144.08		36	7.4	158.3
8		39	43.73	144.13		33	29.1	166.2
9		42	7.86	144.19		30	42.9	174.1
10		44	32.05	144.24		27	48.8	182.0
11		46	56.29	144.28		24	46.8	+190.0
12	19	49	20.57		−21	21	36.8	

世界時	赤経 h	赤経 m	赤経 s	s	赤緯 °	赤緯 ′	赤緯 ″	″
10 月 24 日								
12	19	49	20.57	144.33	−21	21	36.8	+197.9
13		51	44.90	144.36		18	18.9	205.7
14		54	9.26	144.40		14	53.2	213.7
15		56	33.66	144.44		11	19.5	221.4
16	19	58	58.10	144.46		7	38.1	229.4
17	20	1	22.56	144.48	21	3	48.7	237.2
18	20	3	47.04	144.51	−20	59	51.5	+245.2
19		6	11.55	144.52		55	46.3	252.9
20		8	36.07	144.53		51	33.4	260.9
21		11	0.60	144.56		47	12.5	268.6
22		13	25.16	144.57		42	43.9	276.6
23		15	49.73	144.56		38	7.3	284.3
10 月 25 日								
0	20	18	14.29	144.57	−20	33	23.0	+292.2
1		20	38.86	144.56		28	30.8	299.9
2		23	3.42	144.56		23	30.9	307.7
3		25	27.98	144.55		18	23.2	315.4
4		27	52.53	144.55		13	7.8	323.1
5		30	17.08	144.53		7	44.7	330.9
6	20	32	41.61	144.51	−20	2	13.8	+338.6
7		35	6.12	144.49	19	56	35.2	346.2
8		37	30.61	144.47		50	49.0	353.9
9		39	55.08	144.44		44	55.1	361.5
10		42	19.52	144.42		38	53.6	369.2
11		44	43.94	144.38		32	44.4	376.7
12	20	47	8.32	144.35	−19	26	27.7	+384.4
13		49	32.67	144.31		20	3.3	391.7
14		51	56.98	144.28		13	31.6	399.3
15		54	21.26	144.23		6	52.3	406.6
16		56	45.49	144.19	19	0	5.7	414.2
17	20	59	9.68	144.15	18	53	11.5	421.5
18	21	1	33.83	144.11	−18	46	10.0	+428.9
19		3	57.94	144.04		39	1.1	436.2
20		6	21.98	144.00		31	44.9	443.5
21		8	45.98	143.93		24	21.4	450.7
22		11	9.91	143.89		16	50.7	458.0
23		13	33.80	143.82		9	12.7	465.2
10 月 26 日								
0	21	15	57.62	143.77	−18	1	27.5	
1		18	21.39	143.70	17	53	35.1	+472.4
2		20	45.09	143.64		45	35.7	479.4
3		23	8.73	143.58		37	29.2	486.5
4		25	32.31	143.52		29	15.8	493.4
5		27	55.83	143.43		20	55.3	500.5
6	21	30	19.26	143.37	−17	12	27.9	507.4
7		32	42.63	143.29	17	3	53.6	+514.3
8		35	5.92	143.24	16	55	12.6	521.0
9		37	29.16	143.15		46	24.7	527.9
10		39	52.31	143.08		37	30.1	534.6
11		42	15.39	143.00		28	28.7	541.4
12	21	44	38.39	142.93	−16	19	20.8	547.9
13		47	1.32	142.85		10	6.2	+554.6
14		49	24.17	142.78	16	0	45.1	561.1
15		51	46.95	142.69	15	51	17.5	567.6
16		54	9.64	142.61		41	43.5	574.0
17		56	32.25	142.53		32	3.1	580.4
18	21	58	54.78	142.46	−15	22	16.4	586.7
19	22	1	17.24	142.37		12	23.4	+593.0
20		3	39.61	142.29	15	2	24.2	599.2
21		6	1.90	142.21	14	52	18.8	605.4
22		8	24.11	142.13		42	7.5	611.3
23		10	46.24	142.04		31	50.0	617.5
24	22	13	8.28		−14	21	26.6	+623.4

世界時	赤経 h	赤経 m	赤経 s	s	赤緯 °	赤緯 ′	赤緯 ″	″
10 月 27 日								
0	22	13	8.28	141.96	−14	21	26.6	+629.4
1		15	30.24	141.88		10	57.2	635.1
2		17	52.12	141.80	14	0	22.1	640.9
3		20	13.92	141.71	13	49	41.2	646.7
4		22	35.63	141.63		38	54.5	652.4
5		24	57.26	141.54		28	2.1	657.9
6	22	27	18.80	141.47	−13	17	4.2	+663.5
7		29	40.27	141.38	13	6	0.7	668.8
8		32	1.65	141.31	12	54	51.9	674.2
9		34	22.96	141.22		43	37.7	679.6
10		36	44.18	141.15		32	18.1	684.8
11		39	5.33	141.06		20	53.3	690.0
12	22	41	26.39	140.99	−12	9	23.3	+695.1
13		43	47.38	140.90	11	57	48.2	700.1
14		46	8.28	140.84		46	8.1	705.1
15		48	29.12	140.75		34	23.0	709.9
16		50	49.87	140.68		22	33.1	714.7
17		53	10.55	140.60	11	10	38.4	719.4
18	22	55	31.15	140.54	−10	58	39.0	+724.1
19	22	57	51.69	140.45		46	34.9	728.7
20	23	0	12.14	140.39		34	26.2	733.2
21		2	32.53	140.32		22	13.0	737.6
22		4	52.85	140.25	10	9	55.4	742.0
23		7	13.10	140.19	9	57	33.4	746.2
10 月 28 日								
0	23	9	33.29	140.12	− 9	45	7.2	+750.4
1		11	53.41	140.06		32	36.8	754.4
2		14	13.47	139.99		20	2.4	758.5
3		16	33.46	139.93	9	7	23.9	762.4
4		18	53.39	139.87	8	54	41.5	766.3
5		21	13.26	139.80		41	55.2	770.0
6	23	23	33.06	139.76	− 8	29	5.2	+773.7
7		25	52.82	139.70		16	11.5	777.3
8		28	12.52	139.65	8	3	14.2	780.9
9		30	32.17	139.59	7	50	13.3	784.2
10		32	51.76	139.54		37	9.1	787.6
11		35	11.30	139.50		24	1.5	790.7
12	23	37	30.80	139.45	− 7	10	50.8	+794.0
13		39	50.25	139.40	6	57	36.8	797.0
14		42	9.65	139.37		44	19.8	800.1
15		44	29.02	139.32		30	59.7	802.8
16		46	48.34	139.29		17	36.9	805.7
17		49	7.63	139.25	6	4	11.2	808.4
18	23	51	26.88	139.22	− 5	50	42.8	+811.0
19		53	46.10	139.18		37	11.8	813.6
20		56	5.28	139.15		23	38.2	816.0
21	23	58	24.43	139.13	5	10	2.2	818.3
22	0	0	43.56	139.10	4	56	23.9	820.6
23		3	2.66	139.07		42	43.3	822.7
10 月 29 日								
0	0	5	21.73	139.06	− 4	29	0.6	+824.8
1		7	40.79	139.03		15	15.8	826.7
2		9	59.82	139.02	4	1	29.1	828.6
3		12	18.84	139.00	3	47	40.5	830.4
4		14	37.84	139.00		33	50.1	832.1
5		16	56.84	138.97		19	58.0	833.6
6	0	19	15.81	138.97	− 3	6	4.4	+835.1
7		21	34.78	138.97	2	52	9.3	836.5
8		23	53.75	138.97		38	12.8	837.8
9		26	12.72	138.97		24	15.0	839.0
10		28	31.68	138.96	2	10	16.0	840.1
11		30	50.65	138.97	1	56	15.9	+841.1
12	0	33	9.62	138.97	− 1	42	14.8	

世界時	赤経 h	赤経 m	赤経 s	s	赤緯 °	赤緯 ′	赤緯 ″	″
10 月 29 日								
12	0	33	9.62	138.99	− 1	42	14.8	+842.0
13		35	28.61	138.98		28	12.8	842.7
14		37	47.59	139.00		14	10.1	843.5
15		40	6.59	139.01	1	0	6.6	844.1
16		42	25.60	139.03	0	46	2.5	844.5
17		44	44.63	139.04		31	58.0	844.9
18	0	47	3.67	139.06	− 0	17	53.1	+845.3
19		49	22.73	139.08	− 0	3	47.8	845.4
20		51	41.81	139.12	+ 0	10	17.6	845.6
21		54	0.93	139.13		24	23.2	845.5
22		56	20.06	139.17		38	28.7	845.4
23	0	58	39.23	139.20	0	52	34.1	845.2
10 月 30 日								
0	1	0	58.43	139.23	+ 1	6	39.3	+844.9
1		3	17.66	139.27		20	44.2	844.5
2		5	36.93	139.31		34	48.7	844.0
3		7	56.24	139.34	1	48	52.7	843.4
4		10	15.58	139.40	2	2	56.1	842.6
5		12	34.98	139.43		16	58.7	841.8
6	1	14	54.41	139.49	+ 2	31	0.5	+840.9
7		17	13.90	139.53		45	1.4	839.9
8		19	33.43	139.58	2	59	1.3	838.7
9		21	53.01	139.64	3	13	0.0	837.5
10		24	12.65	139.69		26	57.5	836.2
11		26	32.34	139.75		40	53.7	834.8
12	1	28	52.09	139.81	+ 3	54	48.5	+833.3
13		31	11.90	139.87	4	8	41.8	831.6
14		33	31.77	139.94		22	33.4	829.9
15		35	51.71	140.00		36	23.3	828.0
16		38	11.71	140.07	4	50	11.3	826.1
17		40	31.78	140.13	5	3	57.4	824.1
18	1	42	51.91	140.20	+ 5	17	41.5	+822.0
19		45	12.11	140.28		31	23.5	819.7
20		47	32.39	140.36		45	3.2	817.4
21		49	52.75	140.43	5	58	40.6	814.9
22		52	13.18	140.51	6	12	15.5	812.4
23		54	33.69	140.58		25	47.9	809.8
10 月 31 日								
0	1	56	54.27	140.67	+ 6	39	17.7	
1	1	59	14.94	140.75		6	52	44.8	+807.1
2	2	1	35.69	140.83	7	6	9.0	804.2
3		3	56.52	140.91		19	30.3	801.3
4		6	17.43	141.01		32	48.6	798.3
5		8	38.44	141.08		46	3.8	795.2
6	2	10	59.52	141.18	+ 7	59	15.7	791.9
7		13	20.70	141.27	8	12	24.3	+788.6
8		15	41.97	141.36		25	29.4	785.1
9		18	3.33	141.45		38	31.1	781.7
10		20	24.78	141.54	8	51	29.2	778.1
11		22	46.32	141.64	9	4	23.6	774.4
12	2	25	7.96	141.73	+ 9	17	14.2	770.6
13		27	29.69	141.82		30	0.9	+766.7
14		29	51.51	141.92		42	43.6	762.7
15		32	13.43	142.02	9	55	22.3	758.7
16		34	35.45	142.11	10	7	56.8	754.5
17		36	57.56	142.20		20	27.1	750.3
18	2	39	19.76	142.31	+10	32	52.9	745.8
19		41	42.07	142.41		45	14.4	+741.5
20		44	4.48	142.50	10	57	31.3	736.9
21		46	26.98	142.60	11	9	43.6	732.3
22		48	49.58	142.71		21	51.3	727.7
23		51	12.29	142.80		33	54.2	722.9
24	2	53	35.09		+11	45	52.2	+718.0

11月1日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	2	53	35.09	142.90	+11	45	52.2	+713.1
1		55	57.99	143.00	11	57	45.3	708.0
2	2	58	20.99	143.10	12	9	33.3	702.9
3	3	0	44.09	143.20		21	16.2	697.6
4		3	7.29	143.30		32	53.8	692.5
5		5	30.59	143.39		44	26.3	687.0
6	3	7	53.98	143.49	+12	55	53.3	+681.7
7		10	17.47	143.58	13	7	15.0	676.0
8		12	41.05	143.68		18	31.0	670.4
9		15	4.73	143.78		29	41.4	664.8
10		17	28.51	143.87		40	46.2	659.0
11		19	52.38	143.96	13	51	45.2	653.2
12	3	22	16.34	144.06	+14	2	38.4	+647.3
13		24	40.40	144.15		13	25.7	641.3
14		27	4.55	144.25		24	7.0	635.3
15		29	28.80	144.32		34	42.3	629.1
16		31	53.12	144.42		45	11.4	622.9
17		34	17.54	144.49	14	55	34.3	616.7
18	3	36	42.03	144.59	+15	5	51.0	+610.5
19		39	6.62	144.66		16	1.5	604.0
20		41	31.28	144.75		26	5.5	597.5
21		43	56.03	144.83		36	3.0	590.9
22		46	20.86	144.91		45	53.9	584.4
23		48	45.77	144.99	15	55	38.3	577.7

11月2日

0	3	51	10.76	145.06	+16	5	16.0	+571.1
1		53	35.82	145.14		14	47.1	564.3
2		56	0.96	145.21		24	11.4	557.4
3	3	58	26.17	145.27		33	28.8	550.5
4	4	0	51.44	145.35		42	39.3	543.7
5		3	16.79	145.40	16	51	43.0	536.6
6	4	5	42.19	145.47	+17	0	39.6	+529.6
7		8	7.66	145.52		9	29.2	522.4
8		10	33.18	145.58		18	11.6	515.3
9		12	58.76	145.63		26	46.9	508.1
10		15	24.39	145.69		35	15.0	500.9
11		17	50.08	145.73		43	35.9	493.6
12	4	20	15.81	145.78	+17	51	49.5	+486.3
13		22	41.59	145.82	17	59	55.8	478.8
14		25	7.41	145.86	18	7	54.6	471.4
15		27	33.27	145.90		15	46.0	464.0
16		29	59.17	145.93		23	30.0	456.5
17		32	25.10	145.96		31	6.5	448.9
18	4	34	51.06	145.99	+18	38	35.4	+441.4
19		37	17.05	146.01		45	56.8	433.7
20		39	43.06	146.03	18	53	10.5	426.0
21		42	9.09	146.05	19	0	16.5	418.4
22		44	35.14	146.07		7	14.9	410.7
23		47	1.21	146.06		14	5.6	402.9

11月3日

0	4	49	27.27	146.08	+19	20	48.5	+395.1
1		51	53.35	146.07		27	23.6	387.3
2		54	19.42	146.08		33	50.9	379.5
3		56	45.50	146.07		40	10.4	371.6
4	4	59	11.57	146.07		46	22.0	363.8
5	5	1	37.64	146.05		52	25.8	355.8
6	5	4	3.69	146.03	+19	58	21.6	+348.0
7		6	29.72	146.01	20	4	9.6	339.9
8		8	55.73	145.99		9	49.5	332.1
9		11	21.72	145.96		15	21.6	324.0
10		13	47.68	145.93		20	45.6	316.1
11		16	13.61	145.89		26	1.7	+308.0
12	5	18	39.50		+20	31	9.7	

11月3日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 12	5	18	39.50	145.85	+20	31	9.7	+300.0
13		21	5.35	145.80		36	9.7	292.0
14		23	31.15	145.76		41	1.7	283.9
15		25	56.91	145.70		45	45.6	275.9
16		28	22.61	145.64		50	21.5	267.9
17		30	48.25	145.58		54	49.4	259.8
18	5	33	13.83	145.52	+20	59	9.2	+251.7
19		35	39.35	145.45	21	3	20.9	243.7
20		38	4.80	145.38		7	24.6	235.6
21		40	30.18	145.29		11	20.2	227.5
22		42	55.47	145.21		15	7.7	219.4
23		45	20.68	145.13		18	47.1	211.4

11月4日

0	5	47	45.81	145.04	+21	22	18.5	+203.3
1		50	10.85	144.93		25	41.8	195.3
2		52	35.78	144.84		28	57.1	187.2
3		55	0.62	144.74		32	4.3	179.1
4		57	25.36	144.64		35	3.4	171.1
5	5	59	50.00	144.51		37	54.5	163.0
6	6	2	14.51	144.40	+21	40	37.5	+155.1
7		4	38.91	144.28		43	12.6	147.0
8		7	3.19	144.16		45	39.6	139.1
9		9	27.35	144.03		47	58.7	131.0
10		11	51.38	143.90		50	9.7	123.2
11		14	15.28	143.75		52	12.9	115.1
12	6	16	39.03	143.62	+21	54	8.0	+107.3
13		19	2.65	143.47		55	55.3	99.2
14		21	26.12	143.32		57	34.5	91.4
15		23	49.44	143.16	21	59	5.9	83.5
16		26	12.60	143.02	22	0	29.4	75.6
17		28	35.62	142.85		1	45.0	67.8
18	6	30	58.47	142.69	+22	2	52.8	+ 60.0
19		33	21.16	142.51		3	52.8	52.2
20		35	43.67	142.35		4	45.0	44.5
21		38	6.02	142.16		5	29.5	36.7
22		40	28.18	141.99		6	6.2	29.0
23		42	50.17	141.81		6	35.2	21.4

11月5日

0	6	45	11.98	141.63	+22	6	56.6	+ 13.7
1		47	33.61	141.42		7	10.3	+ 6.0
2		49	55.03	141.24		7	16.3	− 1.5
3		52	16.27	141.04		7	14.8	9.1
4		54	37.31	140.84		7	5.7	16.7
5		56	58.15	140.64		6	49.0	24.1
6	6	59	18.79	140.43	+22	6	24.9	− 31.6
7	7	1	39.22	140.21		5	53.3	38.9
8		3	59.43	140.01		5	14.4	46.4
9		6	19.44	139.79		4	28.0	53.7
10		8	39.23	139.57		3	34.3	61.1
11		10	58.80	139.35		2	33.2	68.3
12	7	13	18.15	139.12	+22	1	24.9	− 75.6
13		15	37.27	138.90	22	0	9.3	82.7
14		17	56.17	138.68	21	58	46.6	90.0
15		20	14.85	138.43		57	16.6	97.1
16		22	33.28	138.21		55	39.5	104.2
17		24	51.49	137.96		53	55.3	111.2
18	7	27	9.45	137.72	+21	52	4.1	−118.2
19		29	27.17	137.48		50	5.9	125.2
20		31	44.65	137.24		48	0.7	132.2
21		34	1.89	137.00		45	48.5	139.0
22		36	18.89	136.75		43	29.5	145.8
23		38	35.64	136.48		41	3.7	−152.6
24	7	40	52.12		+21	38	31.1	

11月6日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 0	7	40	52.12	136.25	+21	38	31.1	−159.4
1		43	8.37	135.98		35	51.7	166.1
2		45	24.35	135.73		33	5.6	172.8
3		47	40.08	135.47		30	12.8	179.3
4		49	55.55	135.22		27	13.5	185.9
5		52	10.77	134.95		24	7.6	192.4
6	7	54	25.72	134.69	+21	20	55.2	−199.0
7		56	40.41	134.42		17	36.2	205.3
8	7	58	54.83	134.17		14	10.9	211.7
9	8	1	9.00	133.90		10	39.2	218.1
10		3	22.90	133.63		7	1.1	224.4
11		5	36.53	133.36	21	3	16.7	230.6
12	8	7	49.89	133.10	+20	59	26.1	−236.8
13		10	2.99	132.82		55	29.3	243.0
14		12	15.81	132.56		51	26.3	249.2
15		14	28.37	132.27		47	17.1	255.1
16		16	40.64	132.01		43	2.0	261.2
17		18	52.65	131.73		38	40.8	267.1
18	8	21	4.38	131.47	+20	34	13.7	−273.1
19		23	15.85	131.18		29	40.6	278.8
20		25	27.03	130.92		25	1.8	284.7
21		27	37.95	130.63		20	17.1	290.5
22		29	48.58	130.37		15	26.6	296.2
23		31	58.95	130.08		10	30.4	301.8

11月7日

0	8	34	9.03	129.82	+20	5	28.6	−307.5
1		36	18.85	129.54	20	0	21.1	313.0
2		38	28.39	129.27	19	55	8.1	318.6
3		40	37.66	128.98		49	49.5	324.1
4		42	46.64	128.72		44	25.4	329.6
5		44	55.36	128.43		38	55.8	334.9
6	8	47	3.79	128.17	+19	33	20.9	−340.3
7		49	11.96	127.89		27	40.6	345.4
8		51	19.85	127.62		21	55.2	350.8
9		53	27.47	127.34		16	4.4	355.9
10		55	34.81	127.08		10	8.5	361.1
11		57	41.89	126.80	19	4	7.4	366.1
12	8	59	48.69	126.54	+18	58	1.3	−371.2
13	9	1	55.23	126.26		51	50.1	376.1
14		4	1.49	125.99		45	34.0	381.1
15		6	7.48	125.73		39	12.9	386.1
16		8	13.21	125.46		32	46.8	391.0
17		10	18.67	125.19		26	15.8	395.7
18	9	12	23.86	124.93	+18	19	40.1	−400.4
19		14	28.79	124.66		12	59.7	405.2
20		16	33.45	124.41	18	6	14.5	409.9
21		18	37.86	124.14	17	59	24.6	414.4
22		20	42.00	123.89		52	30.2	419.0
23		22	45.89	123.62		45	31.2	423.6

11月8日

0	9	24	49.51	123.37	+17	38	27.6	−428.1
1		26	52.88	123.11		31	19.5	432.4
2		28	55.99	122.86		24	7.1	436.8
3		30	58.85	122.60		16	50.3	441.2
4		33	1.45	122.36		9	29.1	445.5
5		35	3.81	122.09	17	2	3.6	449.7
6	9	37	5.90	121.85	+16	54	33.9	−453.9
7		39	7.75	121.61		47	0.0	458.1
8		41	9.36	121.37		39	21.9	462.3
9		43	10.73	121.12		31	39.6	466.2
10		45	11.85	120.88		23	53.4	470.3
11		47	12.73	120.64		16	3.1	−474.3
12	9	49	13.37		+16	8	8.8	

11月8日

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
h 12	9	49	13.37	120.41	+16	8	8.8	−478.3
13		51	13.78	120.16	16	0	10.5	482.0
14		53	13.94	119.94	15	52	8.5	486.0
15		55	13.88	119.71		44	2.5	489.7
16		57	13.59	119.48		35	52.8	493.5
17	9	59	13.07	119.26		27	39.3	497.3
18	10	1	12.33	119.03	+15	19	22.0	−500.9
19		3	11.36	118.81		11	1.1	504.5
20		5	10.17	118.59	15	2	36.6	508.1
21		7	8.76	118.37	14	54	8.5	511.6
22		9	7.13	118.16		45	36.9	515.2
23		11	5.29	117.93		37	1.7	518.6

11月9日

0	10	13	3.22	117.73	+14	28	23.1	−522.1
1		15	0.95	117.52		19	41.0	525.4
2		16	58.47	117.32		10	55.6	528.7
3		18	55.79	117.11	14	2	6.9	532.1
4		20	52.90	116.91	13	53	14.8	535.4
5		22	49.81	116.71		44	19.4	538.5
6	10	24	46.52	116.53	+13	35	20.9	−541.7
7		26	43.05	116.32		26	19.2	544.9
8		28	39.37	116.13		17	14.3	548.0
9		30	35.50	115.95	13	8	6.3	550.9
10		32	31.45	115.76	12	58	55.4	554.0
11		34	27.21	115.58		49	41.4	556.9
12	10	36	22.79	115.40	+12	40	24.5	−560.0
13		38	18.19	115.21		31	4.5	562.7
14		40	13.40	115.05		21	41.8	565.6
15		42	8.45	114.87		12	16.2	568.4
16		44	3.32	114.70	12	2	47.8	571.2
17		45	58.02	114.54	11	53	16.6	574.0
18	10	47	52.56	114.38	+11	43	42.6	−576.7
19		49	46.94	114.22		34	5.9	579.3
20		51	41.16	114.06		24	26.6	581.9
21		53	35.22	113.89		14	44.7	584.5
22		55	29.11	113.75	11	5	0.2	587.1
23		57	22.86	113.60	10	55	13.1	589.6

11月10日

0	10	59	16.46	113.45	+10	45	23.5	−592.1
1	11	1	9.91	113.31		35	31.4	594.4
2		3	3.22	113.17		25	37.0	596.9
3		4	56.39	113.03		15	40.1	599.3
4		6	49.42	112.90	10	5	40.8	601.6
5		8	42.32	112.76	9	55	39.2	603.8
6	11	10	35.08	112.63	+ 9	45	35.4	−606.1
7		12	27.71	112.51		35	29.3	608.2
8		14	20.22	112.39		25	21.1	610.5
9		16	12.61	112.26		15	10.6	612.6
10		18	4.87	112.16	9	4	58.0	614.7
11		19	57.03	112.03	8	54	43.3	616.7
12	11	21	49.06	111.92	+ 8	44	26.6	−618.8
13		23	40.98	111.82		34	7.8	620.7
14		25	32.80	111.71		23	47.1	622.7
15		27	24.51	111.61		13	24.4	624.7
16		29	16.12	111.51	8	2	59.7	626.6
17		31	7.63	111.41	7	52	33.1	628.3
18	11	32	59.04	111.33	+ 7	42	4.8	−630.1
19		34	50.37	111.23		31	34.7	631.9
20		36	41.60	111.14		21	2.8	633.7
21		38	32.74	111.06	7	10	29.1	635.4
22		40	23.80	110.99	6	59	53.7	637.0
23		42	14.79	110.90		49	16.7	−638.6
24	11	44	5.69		+ 6	38	38.1	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
11月11日								
0	11	44	5.69	110.84	+ 6	38	38.1	−640.2
1		45	56.53	110.75		27	57.9	641.8
2		47	47.28	110.69		17	16.1	643.3
3		49	37.97	110.62	6	6	32.8	644.8
4		51	28.59	110.57	5	55	48.0	646.3
5		53	19.16	110.51		45	1.7	647.7
6	11	55	9.67	110.46	+ 5	34	14.0	−649.0
7		57	0.13	110.39		23	25.0	650.4
8	11	58	50.52	110.35		12	34.6	651.7
9	12	0	40.87	110.30	5	1	42.9	652.9
10		2	31.17	110.27	4	50	50.0	654.2
11		4	21.44	110.22		39	55.8	655.4
12	12	6	11.66	110.19	+ 4	29	0.4	−656.5
13		8	1.85	110.15		18	3.9	657.7
14		9	52.00	110.12	4	7	6.2	658.8
15		11	42.12	110.10	3	56	7.4	659.7
16		13	32.22	110.07		45	7.7	660.8
17		15	22.29	110.05		34	6.9	661.8
18	12	17	12.34	110.04	+ 3	23	5.1	−662.8
19		19	2.38	110.02		12	2.3	663.7
20		20	52.40	110.01	3	0	58.6	664.5
21		22	42.41	110.00	2	49	54.1	665.3
22		24	32.41	110.00		38	48.8	666.2
23		26	22.41	109.99		27	42.6	666.9
11月12日								
0	12	23	12.40	110.00	+ 2	16	35.7	−667.7
1		30	2.40	110.00	2	5	28.0	668.3
2		31	52.40	110.00	1	54	19.7	669.0
3		33	42.40	110.02		43	10.7	669.6
4		35	32.42	110.04		32	1.1	670.2
5		37	22.46	110.05		20	50.9	670.7
6	12	39	12.51	110.08	+ 1	9	40.2	−671.3
7		41	2.59	110.09	0	58	28.9	671.7
8		42	52.68	110.12		47	17.2	672.1
9		44	42.80	110.15		36	5.1	672.5
10		46	32.95	110.19		24	52.6	672.8
11		48	23.14	110.22		13	39.8	673.2
12	12	50	13.36	110.27	+ 0	2	26.6	−673.5
13		52	3.63	110.30	− 0	8	46.9	673.7
14		53	53.93	110.35		20	0.6	673.9
15		55	44.28	110.39		31	14.5	674.0
16		57	34.67	110.45		42	28.5	674.2
17	12	59	25.12	110.51	0	53	42.7	674.2
18	13	1	15.63	110.57	− 1	4	56.9	−674.3
19		3	6.20	110.62		16	11.2	674.2
20		4	56.82	110.70		27	25.4	674.2
21		6	47.52	110.75		38	39.6	674.2
22		8	38.27	110.83	1	49	53.8	674.1
23		10	29.10	110.90	2	1	7.9	673.8
11月13日								
0	13	12	20.00	110.98	− 2	12	21.7	−673.7
1		14	10.98	111.06		23	35.4	673.4
2		16	2.04	111.15		34	48.8	673.3
3		17	53.19	111.22		46	2.1	672.8
4		19	44.41	111.32	2	57	14.9	672.5
5		21	35.73	111.41	3	8	27.4	672.1
6	13	23	27.14	111.50	− 3	19	39.5	−671.6
7		25	18.64	111.60		30	51.1	671.2
8		27	10.24	111.71		42	2.3	670.7
9		29	1.95	111.80	3	53	13.0	670.1
10		30	53.75	111.91	4	4	23.1	669.4
11		32	45.66	112.03		15	32.5	−668.8
12	13	34	37.69	112.14	− 4	26	41.3	−668.2
11月13日								
12	13	34	37.69	112.14	− 4	26	41.3	−668.2
13		36	29.83	112.25		37	49.5	667.3
14		38	22.08	112.38	4	48	56.8	666.6
15		40	14.46	112.49	5	0	3.4	665.7
16		42	6.95	112.63		11	9.1	665.0
17		43	59.58	112.74		22	14.1	663.9
18	13	45	52.32	112.87	− 5	33	18.0	−663.0
19		47	45.19	113.01		44	21.0	662.0
20		49	38.20	113.15	5	55	23.0	660.9
21		51	31.35	113.28	6	6	23.9	659.9
22		53	24.63	113.44		17	23.8	658.8
23		55	18.07	113.57		28	22.6	657.5
11月14日								
0	13	57	11.64	113.72	− 6	39	20.1	−656.3
1	13	59	5.36	113.87	6	50	16.4	655.0
2	14	0	59.23	114.03	7	1	11.4	653.7
3		2	53.26	114.18		12	5.1	652.3
4		4	47.44	114.35		22	57.4	650.9
5		6	41.79	114.50		33	48.3	649.5
6	14	8	36.29	114.68	− 7	44	37.8	−648.0
7		10	30.97	114.83	7	55	25.8	646.3
8		12	25.80	115.00	8	6	12.1	644.8
9		14	20.80	115.18		16	56.9	643.1
10		16	15.98	115.35		27	40.0	641.5
11		18	11.33	115.53		38	21.5	639.6
12	14	20	6.86	115.72	− 8	49	1.1	−637.9
13		22	2.58	115.89	8	59	39.0	636.0
14		23	58.47	116.08	9	10	15.0	634.2
15		25	54.55	116.26		20	49.2	632.1
16		27	50.81	116.46		31	21.3	630.2
17		29	47.27	116.65		41	51.5	628.1
18	14	31	43.92	116.85	− 9	52	19.6	−626.1
19		33	40.77	117.04	10	2	45.7	623.8
20		35	37.81	117.24		13	9.5	621.7
21		37	35.05	117.44		23	31.2	619.4
22		39	32.49	117.66		33	50.6	617.2
23		41	30.15	117.85		44	7.8	614.7
11月15日								
0	14	43	28.00	118.06	−10	54	22.5	−612.3
1		45	26.06	118.28	11	4	34.8	609.9
2		47	24.34	118.49		14	44.7	607.4
3		49	22.83	118.70		24	52.1	604.7
4		51	21.53	118.93		34	56.8	602.2
5		53	20.46	119.14		44	59.0	599.5
6	14	55	19.60	119.37	−11	54	58.5	−596.8
7		57	18.97	119.59	12	4	55.3	594.0
8	14	59	18.56	119.82		14	49.3	591.2
9	15	1	18.38	120.04		24	40.5	588.2
10		3	18.42	120.27		34	28.7	585.3
11		5	18.69	120.51		44	14.0	582.3
12	15	7	19.20	120.74	−12	53	56.3	−579.3
13		9	19.94	120.97	13	3	35.6	576.1
14		11	20.91	121.22		13	11.7	573.0
15		13	22.13	121.45		22	44.7	569.8
16		15	23.58	121.69		32	14.5	566.6
17		17	25.27	121.93		41	41.1	563.2
18	15	19	27.20	122.19	−13	51	4.3	−559.8
19		21	29.39	122.42	14	0	24.1	556.3
20		23	31.81	122.67		9	40.4	552.9
21		25	34.48	122.91		18	53.3	549.3
22		27	37.39	123.16		28	2.6	545.7
23		29	40.55	123.42		37	8.3	−542.1
24	15	31	43.97		−14	46	10.4	

世界時	赤経 h	m	s	s	赤緯 °	′	″	″
11月16日								
0	15	31	43.97	123.66	−14	46	10.4	−538.3
1		33	47.63	123.92	14	55	8.7	534.5
2		35	51.55	124.18	15	4	3.2	530.7
3		37	55.73	124.43		12	53.9	526.8
4		40	0.16	124.69		21	40.7	522.9
5		42	4.85	124.94		30	23.6	518.8
6	15	44	9.79	125.20	−15	39	2.4	−514.8
7		46	14.99	125.46		47	37.2	510.6
8		48	20.45	125.72	15	56	7.8	506.5
9		50	26.17	125.98	16	4	34.3	502.2
10		52	32.15	126.24		12	56.5	498.0
11		54	38.39	126.50		21	14.5	493.5
12	15	56	44.89	126.77	−16	29	28.0	−489.1
13	15	58	51.66	127.02		37	37.1	484.7
14	16	0	58.68	127.30		45	41.8	480.2
15		3	5.98	127.55	16	53	42.0	475.6
16		5	13.53	127.83	17	1	37.6	471.0
17		7	21.36	128.08		9	28.6	466.1
18	16	9	29.44	128.35	−17	17	14.7	−461.5
19		11	37.79	128.61		24	56.2	456.6
20		13	46.40	128.88		32	32.8	451.9
21		15	55.28	129.14		40	4.7	446.8
22		18	4.42	129.41		47	31.5	441.9
23		20	13.83	129.66	17	54	53.4	436.8
11月17日								
0	16	22	23.49	129.94	−18	2	10.2	−431.8
1		24	33.43	130.19		9	22.0	426.6
2		26	43.62	130.47		16	28.6	421.4
3		28	54.09	130.72		23	30.0	416.1
4		31	4.81	130.99		30	26.1	410.8
5		33	15.80	131.24		37	16.9	405.4
6	16	35	27.04	131.51	−18	44	2.3	−400.0
7		37	38.55	131.76		50	42.3	394.4
8		39	50.31	132.02	18	57	16.7	388.9
9		42	2.33	132.28	19	3	45.6	383.3
10		44	14.61	132.54		10	8.9	377.7
11		46	27.15	132.80		16	26.6	371.9
12	16	48	39.95	133.05	−19	22	38.5	−366.2
13		50	53.00	133.30		28	44.7	360.3
14		53	6.30	133.55		34	45.0	354.5
15		55	19.85	133.81		40	39.5	348.5
16		57	33.66	134.06		46	28.0	342.6
17	16	59	47.72	134.30		52	10.6	336.5
18	17	2	2.02	134.55	−19	57	47.1	−330.5
19		4	16.57	134.78	20	3	17.6	324.2
20		6	31.35	135.04		8	41.8	318.1
21		8	46.39	135.27		13	59.9	311.9
22		11	1.66	135.51		19	11.8	305.7
23		13	17.17	135.75		24	17.5	299.2
11月18日								
0	17	15	32.92	135.98	−20	29	16.7	−292.9
1		17	48.90	136.22		34	9.6	286.4
2		20	5.12	136.45		38	56.0	280.0
3		22	21.57	136.67		43	36.0	273.4
4		24	38.24	136.90		48	9.4	266.8
5		26	55.14	137.11		52	36.2	260.2
6	17	29	12.25	137.34	−20	56	56.4	−253.6
7		31	29.59	137.55	21	1	10.0	246.8
8		33	47.14	137.77		5	16.8	240.1
9		36	4.91	137.98		9	16.9	233.2
10		38	22.89	138.20		13	10.1	226.4
11		40	41.09	138.39		16	56.5	219.6
12	17	42	59.48		−21	20	36.1	
11月18日								
12	17	42	59.48	138.60	−21	20	36.1	−212.6
13		45	18.08	138.80		24	8.7	205.6
14		47	36.88	139.00		27	34.3	198.6
15		49	55.88	139.19		30	52.9	191.6
16		52	15.07	139.38		34	4.5	184.5
17		54	34.45	139.56		37	9.0	177.3
18	17	56	54.01	139.75	−21	40	6.3	−170.2
19	17	59	13.76	139.93		42	56.5	162.9
20	18	1	33.69	140.10		45	39.4	155.7
21		3	53.79	140.28		48	15.1	148.4
22		6	14.07	140.46		50	43.5	141.2
23		8	34.53	140.61		53	4.7	133.7
11月19日								
0	18	10	55.14	140.78	−21	55	18.4	−126.4
1		13	15.92	140.93		57	24.8	119.0
2		15	36.85	141.09	21	59	23.8	111.6
3		17	57.94	141.24	22	1	15.4	104.1
4		20	19.18	141.39		2	59.5	96.6
5		22	40.57	141.52		4	36.1	89.0
6	18	25	2.09	141.66	−22	6	5.1	− 81.6
7		27	23.75	141.80		7	26.7	73.9
8		29	45.55	141.93		8	40.6	66.4
9		32	7.48	142.05		9	47.0	58.7
10		34	29.53	142.18		10	45.7	51.0
11		36	51.71	142.30		11	36.7	43.4
12	18	39	14.01	142.42	−22	12	20.1	− 35.8
13		41	36.43	142.51		12	55.9	27.9
14		43	58.94	142.62		13	23.8	20.3
15		46	21.56	142.72		13	44.1	12.5
16		48	44.28	142.82		13	56.6	− 4.8
17		51	7.10	142.92		14	1.4	+ 3.1
18	18	53	30.02	143.00	−22	13	58.3	+ 10.9
19		55	53.02	143.08		13	47.4	18.6
20	18	58	16.10	143.16		13	28.8	26.5
21	19	0	39.26	143.24		13	2.3	34.3
22		3	2.50	143.31		12	28.0	42.2
23		5	25.81	143.37		11	45.8	49.9
11月20日								
0	19	7	49.18	143.43	−22	10	55.9	+ 57.9
1		10	12.61	143.49		9	58.0	65.7
2		12	36.10	143.54		8	52.3	73.7
3		14	59.64	143.59		7	38.6	81.4
4		17	23.23	143.64		6	17.2	89.4
5		19	46.87	143.68		4	47.8	97.2
6	19	22	10.55	143.71	−22	3	10.6	+105.2
7		24	34.26	143.74	22	1	25.4	113.0
8		26	58.00	143.77	21	59	32.4	121.0
9		29	21.77	143.79		57	31.4	128.7
10		31	45.56	143.81		55	22.7	136.7
11		34	9.37	143.82		53	6.0	144.5
12	19	36	33.19	143.84	−21	50	41.5	+152.5
13		38	57.03	143.83		48	9.0	160.2
14		41	20.86	143.84		45	28.8	168.2
15		43	44.70	143.84		42	40.6	176.0
16		46	8.54	143.84		39	44.6	184.0
17		48	32.38	143.81		36	40.6	191.7
18	19	50	56.19	143.81	−21	33	28.9	+199.5
19		53	20.00	143.78		30	9.4	207.3
20		55	43.78	143.76		26	42.1	215.2
21	19	58	7.54	143.74		23	6.9	222.9
22	20	0	31.28	143.72		19	24.0	230.7
23		2	55.00	143.67		15	33.3	+238.5
24	20	5	18.67		−21	11	34.8	

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
11 月 21 日								
h	h	m	s	s	°	′	″	″
0	20	5	18.67	143.64	−21	11	34.8	+246.2
1		7	42.31	143.59		7	28.6	253.9
2		10	5.90	143.55	21	3	14.7	261.7
3		12	29.45	143.51	20	58	53.0	269.2
4		14	52.96	143.45		54	23.8	276.9
5		17	16.41	143.39		49	46.9	284.5
6	20	19	39.80	143.34	−20	45	2.4	+292.2
7		22	3.14	143.27		40	10.2	299.7
8		24	26.41	143.21		35	10.5	307.3
9		26	49.62	143.14		30	3.2	314.8
10		29	12.76	143.08		24	48.4	322.4
11		31	35.84	142.99		19	26.0	329.7
12	20	33	58.83	142.92	−20	13	56.3	+337.3
13		36	21.75	142.84		8	19.0	344.6
14		38	44.59	142.76	20	2	34.4	352.0
15		41	7.35	142.68	19	56	42.4	359.4
16		43	30.03	142.59		50	43.0	366.8
17		45	52.62	142.49		44	36.2	373.9
18	20	48	15.11	142.41	−19	38	22.3	+381.3
19		50	37.52	142.31		32	1.0	388.4
20		52	59.83	142.21		25	32.6	395.6
21		55	22.04	142.11		18	57.0	402.8
22	20	57	44.15	142.01		12	14.2	409.9
23	21	0	6.16	141.91	19	5	24.3	416.8
11 月 22 日								
0	21	2	28.07	141.80	−18	58	27.5	+423.9
1		4	49.87	141.70		51	23.6	430.9
2		7	11.57	141.60		44	12.7	437.8
3		9	33.17	141.47		36	54.9	444.8
4		11	54.64	141.37		29	30.1	451.6
5		14	16.01	141.24		21	58.5	458.4
6	21	16	37.25	141.14	−18	14	20.1	+465.1
7		18	58.39	141.01	18	6	35.0	471.9
8		21	19.40	140.91	17	58	43.1	478.6
9		23	40.31	140.78		50	44.5	485.1
10		26	1.09	140.66		42	39.4	491.8
11		28	21.75	140.54		34	27.6	498.3
12	21	30	42.29	140.42	−17	26	9.3	+504.8
13		33	2.71	140.30		17	44.5	511.2
14		35	23.01	140.17		9	13.3	517.6
15		37	43.18	140.05	17	0	35.7	523.9
16		40	3.23	139.93	16	51	51.8	530.2
17		42	23.16	139.80		43	1.6	536.4
18	21	44	42.96	139.67	−16	34	5.2	+542.5
19		47	2.63	139.55		25	2.7	548.7
20		49	22.18	139.42		15	54.0	554.8
21		51	41.60	139.30	16	6	39.2	560.8
22		54	0.90	139.16	15	57	18.4	566.8
23		56	20.06	139.04		47	51.6	572.6
11 月 23 日								
0	21	58	39.10	138.92	−15	38	19.0	+578.5
1	22	0	58.02	138.79		28	40.5	584.2
2		3	16.81	138.66		18	56.3	590.1
3		5	35.47	138.54	15	9	6.2	595.6
4		7	54.01	138.41	14	59	10.6	601.3
5		10	12.42	138.29		49	9.3	606.8
6	22	12	30.71	138.17	−14	39	2.5	+612.4
7		14	48.88	138.04		28	50.1	617.7
8		17	6.92	137.92		18	32.4	623.1
9		19	24.84	137.79	14	8	9.3	628.5
10		21	42.63	137.68	13	57	40.8	633.7
11		24	0.31	137.55		47	7.1	+638.9
12	22	26	17.86		−13	36	28.2	

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
11 月 23 日								
h	h	m	s	s	°	′	″	″
12	22	26	17.86	137.44	−13	36	28.2	+644.1
13		28	35.30	137.31		25	44.1	649.0
14		30	52.61	137.21		14	55.1	654.1
15		33	9.82	137.08	13	4	1.0	659.0
16		35	26.90	136.98	12	53	2.0	663.9
17		37	43.88	136.85		41	58.1	668.7
18	22	40	0.73	136.75	−12	30	49.4	+673.5
19		42	17.48	136.63		19	35.9	678.0
20		44	34.11	136.53	12	8	17.9	682.7
21		46	50.64	136.42	11	56	55.2	687.3
22		49	7.06	136.31		45	27.9	691.8
23		51	23.37	136.21		33	56.1	696.1
11 月 24 日								
0	22	53	39.58	136.11	−11	22	20.0	+700.6
1		55	55.69	136.01	11	10	39.4	704.7
2	22	58	11.70	135.91	10	58	54.7	709.0
3	23	0	27.61	135.81		47	5.7	713.1
4		2	43.42	135.73		35	12.6	717.2
5		4	59.15	135.62		23	15.4	721.2
6	23	7	14.77	135.54	−10	11	14.2	+725.1
7		9	30.31	135.45	9	59	9.1	728.9
8		11	45.76	135.36		47	0.2	732.7
9		14	1.12	135.28		34	47.5	736.4
10		16	16.40	135.20		22	31.1	740.1
11		18	31.60	135.12	9	10	11.0	743.7
12	23	20	46.72	135.05	− 8	57	47.3	+747.2
13		23	1.77	134.96		45	20.1	750.5
14		25	16.73	134.91		32	49.6	754.0
15		27	31.64	134.82		20	15.6	757.2
16		29	46.46	134.76	8	7	38.4	760.4
17		32	1.22	134.69	7	54	58.0	763.5
18	23	34	15.91	134.64	− 7	42	14.5	+766.6
19		36	30.55	134.58		29	27.9	769.5
20		38	45.13	134.52		16	38.4	772.5
21		40	59.65	134.46	7	3	45.9	775.3
22		43	14.11	134.41	6	50	50.6	778.1
23		45	28.52	134.37		37	52.5	780.6
11 月 25 日								
0	23	47	42.89	134.32	− 6	24	51.9	+783.3
1		49	57.21	134.28		6	11	48.6	785.8
2		52	11.49	134.24		5	58	42.8	788.3
3		54	25.73	134.20			45	34.5	790.7
4		56	39.93	134.18			32	23.8	793.0
5	23	58	54.11	134.13			19	10.8	795.1
6	0	1	8.24	134.11	− 5	5	55.7	+797.3
7		3	22.35	134.08		4	52	38.4	799.3
8		5	36.43	134.07			39	19.1	801.3
9		7	50.50	134.04			25	57.8	803.1
10		10	4.54	134.04		4	12	34.7	805.0
11		12	18.58	134.01		3	59	9.7	806.7
12	0	14	32.59	134.00	− 3	45	43.0	+808.4
13		16	46.59	134.00			32	14.6	809.9
14		19	0.59	134.00			18	44.7	811.5
15		21	14.59	133.99		3	5	13.2	812.8
16		23	28.58	134.00		2	51	40.4	814.2
17		25	42.58	134.00			38	6.2	815.4
18	0	27	56.58	134.01	− 2	24	30.8	+816.6
19		30	10.59	134.02		2	10	54.2	817.5
20		32	24.61	134.04		1	57	16.7	818.6
21		34	38.65	134.06			43	38.1	819.5
22		36	52.71	134.08			29	58.6	820.4
23		39	6.79	134.10			16	18.2	+821.1
24	0	41	20.89		− 1	2	37.1	

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
11 月 26 日								
h	h	m	s	s	°	′	″	″
0	0	41	20.89	134.13	− 1	2	37.1	+821.8
1		43	35.02	134.16		0	48	55.3	822.3
2		45	49.18	134.19			35	13.0	822.8
3		48	3.37	134.23			21	30.2	823.2
4		50	17.60	134.28	− 0	7	47.0	823.6
5		52	31.88	134.31	+ 0	5	56.6	823.8
6	0	54	46.19	134.36	+ 0	19	40.4	+824.0
7		57	0.55	134.40		33	24.4	823.9
8	0	59	14.95	134.46		47	8.3	824.0
9	1	1	29.41	134.52	1	0	52.3	823.7
10		3	43.93	134.58		14	36.0	823.6
11		5	58.51	134.63		28	19.6	823.4
12	1	8	13.14	134.70	+ 1	42	3.0	+823.0
13		10	27.84	134.76	1	55	46.0	822.5
14		12	42.60	134.83	2	9	28.5	822.0
15		14	57.43	134.91		23	10.5	821.3
16		17	12.34	134.98		36	51.8	820.6
17		19	27.32	135.06	2	50	32.4	819.8
18	1	21	42.38	135.15	+ 3	4	12.2	+818.9
19		23	57.53	135.22		17	51.1	817.9
20		26	12.75	135.31		31	29.0	816.8
21		28	28.06	135.41		45	5.8	815.6
22		30	43.47	135.50	3	58	41.4	814.4
23		32	58.97	135.60	4	12	15.8	813.0
11 月 27 日								
0	1	35	14.57	135.70	+ 4	25	48.8	+811.7
1		37	30.27	135.79		39	20.5	810.0
2		39	46.06	135.90	4	52	50.5	808.5
3		42	1.96	135.99	5	6	19.0	806.7
4		44	17.95	136.11		19	45.7	805.0
5		46	34.06	136.22		33	10.7	803.0
6	1	48	50.28	136.33	+ 5	46	33.7	+801.0
7		51	6.61	136.45	5	59	54.7	799.0
8		53	23.06	136.57	6	13	13.7	796.9
9		55	39.63	136.68		26	30.6	794.6
10	1	57	56.31	136.81		39	45.2	792.3
11	2	0	13.12	136.93	6	52	57.5	789.8
12	2	2	30.05	137.07	+ 7	6	7.3	+787.4
13		4	47.12	137.18		19	14.7	784.7
14		7	4.30	137.32		32	19.4	782.1
15		9	21.62	137.45		45	21.5	779.2
16		11	39.07	137.58	7	58	20.7	776.4
17		13	56.65	137.72	8	11	17.1	773.3
18	2	16	14.37	137.86	+ 8	24	10.4	+770.4
19		18	32.23	138.00		37	0.8	767.1
20		20	50.23	138.14	8	49	47.9	764.0
21		23	8.37	138.28	9	2	31.9	760.6
22		25	26.65	138.43		15	12.5	757.3
23		27	45.08	138.57		27	49.8	753.7
11 月 28 日								
0	2	30	3.65	138.73	+ 9	40	23.5	+750.1
1		32	22.38	138.86	9	52	53.6	746.5
2		34	41.24	139.02	10	5	20.1	742.7
3		37	0.26	139.17		17	42.8	738.8
4		39	19.43	139.32		30	1.6	734.9
5		41	38.75	139.48		42	16.5	730.9
6	2	43	58.23	139.63	+10	54	27.4	+726.8
7		46	17.86	139.79	11	6	34.2	722.5
8		48	37.65	139.94		18	36.7	718.3
9		50	57.59	140.10		30	35.0	713.8
10		53	17.69	140.25		42	28.8	709.5
11		55	37.94	140.41	11	54	18.3	+704.8
12	2	57	58.35		+12	6	3.1	

世界時	赤経 h	赤経 m	赤経 s	赤経 s	赤緯 °	赤緯 ′	赤緯 ″	赤緯 ″
11 月 28 日								
h	h	m	s	s	°	′	″	″
12	2	57	58.35	140.57	+12	6	3.1	+700.3
13	3	0	18.92	140.73		17	43.4	695.5
14		2	39.65	140.89		29	18.9	690.7
15		5	0.54	141.04		40	49.6	685.9
16		7	21.58	141.21	12	52	15.5	680.9
17		9	42.79	141.36	13	3	36.4	675.9
18	3	12	4.15	141.52	+13	14	52.3	+670.7
19		14	25.67	141.67		26	3.0	665.5
20		16	47.34	141.83		37	8.5	660.2
21		19	9.17	141.99		48	8.7	654.8
22		21	31.16	142.15	13	59	3.5	649.5
23		23	53.31	142.31	14	9	53.0	643.8
11 月 29 日								
0	3	26	15.62	142.46	+14	20	36.3	+638.3
1		28	38.08	142.62		31	15.1	632.6
2		31	0.70	142.77		41	47.7	626.8
3		33	23.47	142.93	14	52	14.5	621.0
4		35	46.40	143.07	15	2	35.5	615.1
5		38	9.47	143.23		12	50.6	609.1
6	3	40	32.70	143.38	+15	22	59.7	+603.1
7		42	56.08	143.52		33	2.8	596.9
8		45	19.60	143.67		42	59.7	590.7
9		47	43.27	143.81	15	52	50.4	584.5
10		50	7.08	143.96	16	2	34.9	578.1
11		52	31.04	144.10		12	13.0	571.6
12	3	54	55.14	144.24	+16	21	44.6	+565.3
13		57	19.38	144.38		31	9.9	558.6
14	3	59	43.76	144.51		40	28.5	552.0
15	4	2	8.27	144.65		49	40.5	545.4
16		4	32.92	144.79	16	58	45.9	538.7
17		6	57.71	144.90	17	7	44.6	531.8
18	4	9	22.61	145.03	+17	16	36.4	+525.0
19		11	47.64	145.15		25	21.4	518.0
20		14	12.79	145.28		33	59.4	511.1
21		16	38.07	145.39		42	30.5	504.0
22		19	3.46	145.51		50	54.5	497.0
23		21	28.97	145.62	17	59	11.5	489.7
11 月 30 日								
0	4	23	54.59	145.73	+18	7	21.2	+482.6
1		26	20.32	145.83		15	23.8	475.3
2		28	46.15	145.94		23	19.1	468.0
3		31	12.09	146.04		31	7.1	460.6
4		33	38.13	146.13		38	47.7	453.1
5		36	4.26	146.23		46	20.8	445.7
6	4	38	30.49	146.32	+18	53	46.5	+438.3
7		40	56.81	146.39	19	1	4.8	430.6
8		43	23.20	146.48		8	15.4	423.1
9		45	49.68	146.56		15	18.5	415.4
10		48	16.24	146.64		22	13.9	407.8
11		50	42.88	146.69		29	1.7	400.0
12	4	53	9.57	146.77	+19	35	41.7	+392.2
13		55	36.34	146.82		42	13.9	384.4
14	4	58	3.16	146.88		48	38.3	376.6
15	5	0	30.04	146.94	19	54	54.9	368.7
16		2	56.98	146.98	20	1	3.6	360.9
17		5	23.96	147.02		7	4.5	352.8
18	5	7	50.98	147.06	+20	12	57.3	+344.9
19		10	18.04	147.10		18	42.2	336.9
20		12	45.14	147.13		24	19.1	328.9
21		15	12.27	147.14		29	48.0	320.8
22		17	39.41	147.17		35	8.8	312.8
23		20	6.58	147.19		40	21.6	304.5
24	5	22	33.77		+20	45	26.1	

世界時	赤経				赤緯			
	12月 1日							
h	h	m	s	s	°	′	″	″
0	5	22	33.77	147.20	+20	45	26.1	+296.5
1		25	0.97	147.20		50	22.6	288.3
2		27	28.17	147.20		55	10.9	280.2
3		29	55.37	147.19	20	59	51.1	272.0
4		32	22.56	147.18	21	4	23.1	263.9
5		34	49.74	147.16		8	47.0	255.6
6	5	37	16.90	147.15	+21	13	2.6	+247.4
7		39	44.05	147.12		17	10.0	239.1
8		42	11.17	147.10		21	9.1	230.9
9		44	38.27	147.05		25	0.0	222.7
10		47	5.32	147.01		28	42.7	214.4
11		49	32.33	146.97		32	17.1	206.1
12	5	51	59.30	146.92	+21	35	43.2	+197.8
13		54	26.22	146.86		39	1.0	189.6
14		56	53.08	146.80		42	10.6	181.3
15	5	59	19.88	146.73		45	11.9	173.0
16	6	1	46.61	146.66		48	4.9	164.7
17		4	13.27	146.58		50	49.6	156.5
18	6	6	39.85	146.49	+21	53	26.1	+148.3
19		9	6.34	146.41		55	54.4	140.0
20		11	32.75	146.32	21	58	14.4	131.7
21		13	59.07	146.21	22	0	26.1	123.5
22		16	25.28	146.12		2	29.6	115.3
23		18	51.40	145.99		4	24.9	107.0
	12月 2日							
0	6	21	17.39	145.89	+22	6	11.9	+ 98.8
1		23	43.28	145.76		7	50.7	90.6
2		26	9.04	145.65		9	21.3	82.5
3		28	34.69	145.50		10	43.8	74.2
4		31	0.19	145.37		11	58.0	66.2
5		33	25.56	145.23		13	4.2	58.0
6	6	35	50.79	145.09	+22	14	2.2	+ 50.0
7		38	15.88	144.94		14	52.2	41.9
8		40	40.82	144.79		15	34.1	33.8
9		43	5.61	144.62		16	7.9	25.8
10		45	30.23	144.47		16	33.7	17.8
11		47	54.70	144.28		16	51.5	9.7
12	6	50	18.98	144.12	+22	17	1.2	+ 1.8
13		52	43.10	143.93		17	3.0	− 6.1
14		55	7.03	143.75		16	56.9	14.0
15		57	30.78	143.56		16	42.9	21.8
16	6	59	54.34	143.38		16	21.1	29.7
17	7	2	17.72	143.17		15	51.4	37.4
18	7	4	40.89	142.98	+22	15	14.0	− 45.1
19		7	3.87	142.77		14	28.9	52.9
20		9	26.64	142.56		13	36.0	60.7
21		11	49.20	142.34		12	35.3	68.2
22		14	11.54	142.13		11	27.1	75.9
23		16	33.67	141.91		10	11.2	83.5
	12月 3日							
0	7	18	55.58	141.68	+22	8	47.7	− 91.1
1		21	17.26	141.46		7	16.6	98.4
2		23	38.72	141.23		5	38.2	106.0
3		25	59.95	140.99		3	52.2	113.3
4		28	20.94	140.75	22	1	58.9	120.7
5		30	41.69	140.50	21	59	58.2	128.1
6	7	33	2.19	140.26	+21	57	50.1	−135.4
7		35	22.45	140.01		55	34.7	142.5
8		37	42.46	139.77		53	12.2	149.7
9		40	2.23	139.50		50	42.5	156.9
10		42	21.73	139.25		48	5.6	164.1
11		44	40.98	138.98		45	21.5	−171.0
12	7	46	59.96		+21	42	30.5	

世界時	赤経				赤緯			
	12月 3日							
h	h	m	s	s	°	′	″	″
12	7	46	59.96	138.72	+21	42	30.5	−178.0
13		49	18.68	138.45		39	32.5	185.0
14		51	37.13	138.19		36	27.5	191.9
15		53	55.32	137.90		33	15.6	198.7
16		56	13.22	137.64		29	56.9	205.5
17	7	58	30.86	137.36		26	31.4	212.3
18	8	0	48.22	137.08	+21	22	59.1	−219.1
19		3	5.30	136.79		19	20.0	225.6
20		5	22.09	136.52		15	34.4	232.2
21		7	38.61	136.23		11	42.2	238.8
22		9	54.84	135.95		7	43.4	245.3
23		12	10.79	135.66	21	3	38.1	251.7
	12月 4日							
0	8	14	26.45	135.37	+20	59	26.4	−258.1
1		16	41.82	135.07		55	8.3	264.4
2		18	56.89	134.79		50	43.9	270.7
3		21	11.68	134.49		46	13.2	276.9
4		23	26.17	134.20		41	36.3	283.1
5		25	40.37	133.90		36	53.2	289.2
6	8	27	54.27	133.61	+20	32	4.0	−295.3
7		30	7.88	133.30		27	8.7	301.3
8		32	21.18	133.01		22	7.4	307.3
9		34	34.19	132.71		17	0.1	313.0
10		36	46.90	132.41		11	47.1	319.0
11		38	59.31	132.10		6	28.1	324.7
12	8	41	11.41	131.81	+20	1	3.4	−330.5
13		43	23.22	131.50	19	55	32.9	336.1
14		45	34.72	131.20		49	56.8	341.8
15		47	45.92	130.90		44	15.0	347.3
16		49	56.82	130.60		38	27.7	352.9
17		52	7.42	130.29		32	34.8	358.3
18	8	54	17.71	130.00	+19	26	36.5	−363.7
19		56	27.71	129.69		20	32.8	369.1
20	8	58	37.40	129.39		14	23.7	374.4
21	9	0	46.79	129.09		8	9.3	379.5
22		2	55.88	128.79	19	1	49.8	384.7
23		5	4.67	128.49	18	55	25.1	389.9
	12月 5日							
0	9	7	13.16	128.19	+18	48	55.2	−394.9
1		9	21.35	127.89		42	20.3	399.9
2		11	29.24	127.59		35	40.4	404.9
3		13	36.83	127.29		28	55.5	409.8
4		15	44.12	127.00		22	5.7	414.7
5		17	51.12	126.70		15	11.0	419.4
6	9	19	57.82	126.41	+18	8	11.6	−424.3
7		22	4.23	126.11	18	1	7.3	428.9
8		24	10.34	125.83	17	53	58.4	433.5
9		26	16.17	125.52		46	44.9	438.1
10		28	21.69	125.24		39	26.8	442.7
11		30	26.93	124.95		32	4.1	447.0
12	9	32	31.88	124.66	+17	24	37.1	−451.5
13		34	36.54	124.38		17	5.6	455.9
14		36	40.92	124.09		9	29.7	460.3
15		38	45.01	123.81	17	1	49.4	464.4
16		40	48.82	123.53	16	54	5.0	468.7
17		42	52.35	123.24		46	16.3	472.9
18	9	44	55.59	122.98	+16	38	23.4	−477.0
19		46	58.57	122.69		30	26.4	481.0
20		49	1.26	122.43		22	25.4	485.1
21		51	3.69	122.15		14	20.3	489.0
22		53	5.84	121.88	16	6	11.3	493.0
23		55	7.72	121.61	15	57	58.3	−496.8
24	9	57	9.33		+15	49	41.5	

世界時	赤経				赤緯			
	12月 6日							
h	h	m	s	s	°	′	″	″
0	9	57	9.33	121.35	+15	49	41.5	−500.6
1	9	59	10.68	121.08		41	20.9	504.3
2	10	1	11.76	120.83		32	56.6	508.2
3		3	12.59	120.56		24	28.4	511.7
4		5	13.15	120.31		15	56.7	515.4
5		7	13.46	120.05	15	7	21.3	518.9
6	10	9	13.51	119.80	+14	58	42.4	−522.5
7		11	13.31	119.55		49	59.9	525.9
8		13	12.86	119.31		41	14.0	529.4
9		15	12.17	119.06		32	24.6	532.7
10		17	11.23	118.82		23	31.9	536.1
11		19	10.05	118.58		14	35.8	539.3
12	10	21	8.63	118.35	+14	5	36.5	−542.6
13		23	6.98	118.11	13	56	33.9	545.8
14		25	5.09	117.88		47	28.1	548.9
15		27	2.97	117.64		38	19.2	552.1
16		29	0.61	117.42		29	7.1	555.2
17		30	58.03	117.20		19	51.9	558.1
18	10	32	55.23	116.98	+13	10	33.8	−561.1
19		34	52.21	116.76	13	1	12.7	564.0
20		36	48.97	116.55	12	51	48.7	567.0
21		38	45.52	116.32		42	21.7	569.8
22		40	41.84	116.13		32	51.9	572.6
23		42	37.97	115.92		23	19.3	575.3
	12月 7日							
0	10	44	33.89	115.72	+12	13	44.0	−578.1
1		46	29.61	115.51	12	4	5.9	580.6
2		48	25.12	115.33	11	54	25.3	583.4
3		50	20.45	115.12		44	41.9	585.9
4		52	15.57	114.94		34	56.0	588.5
5		54	10.51	114.75		25	7.5	591.1
6	10	56	5.26	114.56	+11	15	16.4	−593.5
7		57	59.82	114.38	11	5	22.9	595.8
8	10	59	54.20	114.21	10	55	27.1	598.3
9	11	1	48.41	114.02		45	28.8	600.6
10		3	42.43	113.86		35	28.2	603.0
11		5	36.29	113.69		25	25.2	605.1
12	11	7	29.98	113.53	+10	15	20.1	−607.5
13		9	23.51	113.36	10	5	12.6	609.6
14		11	16.87	113.21	9	55	3.0	611.7
15		13	10.08	113.04		44	51.3	613.9
16		15	3.12	112.89		34	37.4	616.0
17		16	56.01	112.75		24	21.4	618.0
18	11	18	48.76	112.61	+ 9	14	3.4	−620.0
19		20	41.37	112.46	9	3	43.4	622.0
20		22	33.83	112.33	8	53	21.4	623.9
21		24	26.16	112.18		42	57.5	625.7
22		26	18.34	112.05		32	31.8	627.7
23		28	10.39	111.92		22	4.1	629.4
	12月 8日							
0	11	30	2.31	111.80	+ 8	11	34.7	−631.2
1		31	54.11	111.68	8	1	3.5	632.9
2		33	45.79	111.57	7	50	30.6	634.7
3		35	37.36	111.44		39	55.9	636.3
4		37	28.80	111.33		29	19.6	638.0
5		39	20.13	111.23		18	41.6	639.6
6	11	41	11.36	111.12	+ 7	8	2.0	−641.1
7		43	2.48	111.02	6	57	20.9	642.6
8		44	53.50	110.93		46	38.3	644.2
9		46	44.43	110.82		35	54.1	645.5
10		48	35.25	110.74		25	8.6	647.0
11		50	25.99	110.66		14	21.6	−648.4
12	11	52	16.65		+ 6	3	33.2	

世界時	赤経				赤緯			
	12月 8日							
h	h	m	s	s	°	′	″	″
12	11	52	16.65	110.57	+ 6	3	33.2	−649.7
13		54	7.22	110.49	5	52	43.5	651.0
14		55	57.71	110.42		41	52.5	652.4
15		57	48.13	110.34		31	0.1	653.5
16	11	59	38.47	110.27		20	6.6	654.8
17	12	1	28.74	110.20	5	9	11.8	656.0
18	12	3	18.94	110.15	+ 4	58	15.8	−657.1
19		5	9.09	110.08		47	18.7	658.2
20		6	59.17	110.04		36	20.5	659.3
21		8	49.21	109.97		25	21.2	660.3
22		10	39.18	109.93		14	20.9	661.3
23		12	29.11	109.89	4	3	19.6	662.2
	12月 9日							
0	12	14	19.00	109.85	+ 3	52	17.4	−663.2
1		16	8.85	109.81		41	14.2	664.2
2		17	58.66	109.78		30	10.0	665.0
3		19	48.44	109.74		19	5.0	665.8
4		21	38.18	109.72	3	7	59.2	666.6
5		23	27.90	109.69	2	56	52.6	667.3
6	12	25	17.59	109.68	+ 2	45	45.3	−668.1
7		27	7.27	109.66		34	37.2	668.8
8		28	56.93	109.65		23	28.4	669.5
9		30	46.58	109.64		12	18.9	670.0
10		32	36.22	109.64	2	1	8.9	670.7
11		34	25.86	109.64	1	49	58.2	671.2
12	12	36	*15.50	109.64	+ 1	38	47.0	−671.8
13		38	5.14	109.64		27	35.2	672.1
14		39	54.78	109.65		16	23.1	672.7
15		41	44.43	109.67	1	5	10.4	673.1
16		43	34.10	109.69	0	53	57.3	673.5
17		45	23.79	109.70		42	43.8	673.9
18	12	47	13.49	109.73	+ 0	31	29.9	−674.2
19		49	3.22	109.75		20	15.7	674.4
20		50	52.97	109.79	+ 0	9	1.3	674.7
21		52	42.76	109.82	− 0	2	13.4	674.9
22		54	32.58	109.86		13	28.3	675.1
23		56	22.44	109.90		24	43.4	675.2
	12月 10日							
0	12	58	12.34	109.96	− 0	35	58.6	−675.4
1	13	0	2.30	109.99		47	14.0	675.3
2		1	52.29	110.05	0	58	29.3	675.4
3		3	42.34	110.10	1	9	44.7	675.4
4		5	32.44	110.17		21	0.1	675.3
5		7	22.61	110.22		32	15.4	675.3
6	13	9	12.83	110.29	− 1	43	30.7	−675.2
7		11	3.12	110.37	1	54	45.9	675.0
8		12	53.49	110.44	2	6	0.9	674.8
9		14	43.93	110.52		17	15.7	674.6
10		16	34.45	110.60		28	30.3	674.3
11		18	25.05	110.68		39	44.6	674.0
12	13	20	15.73	110.77	− 2	50	58.6	−673.8
13		22	6.50	110.87	3	2	12.4	673.3
14		23	57.37	110.96		13	25.7	672.9
15		25	48.33	111.05		24	38.6	672.4
16		27	39.38	111.16		35	51.0	672.0
17		29	30.54	111.26		47	3.0	671.4
18	13	31	21.80	111.37	− 3	58	14.4	−670.9
19		33	13.17	111.49	4	9	25.3	670.2
20		35	4.66	111.60		20	35.5	669.6
21		36	56.26	111.72		31	45.1	668.9
22		38	47.98	111.85		42	54.0	668.2
23		40	39.83	111.97	4	54	2.2	670.7
24	13	42	31.80		− 5	5	9.6	−667.4

世界時	赤経				赤緯			
	12 月 11 日							
h	h	m	s	s	°	′	″	″
0	13	42	31.80	112.10	− 5	5	9.6	−666.6
1		44	23.90	112.23		16	16.2	665.7
2		46	16.13	112.38		27	21.9	664.9
3		48	8.51	112.51		38	26.8	663.9
4		50	1.02	112.66	5	49	30.7	663.0
5		51	53.68	112.80	6	0	33.7	661.9
6	13	53	46.48	112.95	− 6	11	35.6	−661.0
7		55	39.43	113.10		22	36.6	659.7
8		57	32.53	113.27		33	36.3	658.7
9	13	59	25.80	113.42		44	35.0	657.4
10	14	1	19.22	113.59	6	55	32.4	656.2
11		3	12.81	113.74	7	6	28.6	654.9
12	14	5	6.55	113.92	− 7	17	23.5	−653.7
13		7	0.47	114.10		28	17.2	652.2
14		8	54.57	114.27		39	9.4	650.8
15		10	48.84	114.45	7	50	0.2	649.4
16		12	43.29	114.64	8	0	49.6	647.9
17		14	37.93	114.82		11	37.5	646.2
18	14	16	32.75	115.01	− 8	22	23.7	−644.7
19		18	27.76	115.20		33	8.4	643.0
20		20	22.96	115.40		43	51.4	641.4
21		22	18.36	115.59	8	54	32.8	639.6
22		24	13.95	115.80	9	5	12.4	637.9
23		26	9.75	116.00		15	50.3	636.0
	12 月 12 日							
0	14	28	5.75	116.20	− 9	26	26.3	−634.2
1		30	1.95	116.42		37	0.5	632.1
2		31	58.37	116.63		47	32.6	630.2
3		33	55.00	116.85	9	58	2.8	628.2
4		35	51.85	117.07	10	8	31.0	626.2
5		37	48.92	117.28		18	57.2	623.9
6	14	39	46.20	117.51	−10	29	21.1	−621.8
7		41	43.71	117.73		39	42.9	619.5
8		43	41.44	117.97	10	50	2.4	617.3
9		45	39.41	118.21	11	0	19.7	614.9
10		47	37.62	118.44		10	34.6	612.6
11		49	36.06	118.68		20	47.2	610.1
12	14	51	34.74	118.93	−11	30	57.3	−607.6
13		53	33.67	119.16		41	4.9	605.0
14		55	32.83	119.42	11	51	9.9	602.5
15		57	32.25	119.65	12	1	12.4	599.8
16	14	59	31.90	119.91		11	12.2	597.1
17	15	1	31.81	120.16		21	9.3	594.3
18	15	3	31.97	120.42	−12	31	3.6	−591.5
19		5	32.39	120.68		40	55.1	588.6
20		7	33.07	120.94	12	50	43.7	585.7
21		9	34.01	121.20	13	0	29.4	582.6
22		11	35.21	121.48		10	12.0	579.7
23		13	36.69	121.73		19	51.7	576.5
	12 月 13 日							
0	15	15	38.42	122.00	−13	29	28.2	−573.4
1		17	40.42	122.28		39	1.6	570.1
2		19	42.70	122.55		48	31.7	566.9
3		21	45.25	122.83	13	57	58.6	563.5
4		23	48.08	123.11	14	7	22.1	560.2
5		25	51.19	123.38		16	42.3	556.7
6	15	27	54.57	123.66	−14	25	59.0	−553.2
7		29	58.23	123.94		35	12.2	549.5
8		32	2.17	124.23		44	21.7	546.0
9		34	6.40	124.51	14	53	27.7	542.3
10		36	10.91	124.81	15	2	30.0	538.6
11		38	15.72	125.09		11	28.6	−534.7
12	15	40	20.81		−15	20	23.3	

世界時	赤経				赤緯			
	12 月 13 日							
h	h	m	s	s	°	′	″	″
12	15	40	20.81	125.38	−15	20	23.3	−530.9
13		42	26.19	125.67		29	14.2	526.9
14		44	31.86	125.97		38	1.1	522.9
15		46	37.83	126.26		46	44.0	518.9
16		48	44.09	126.56	15	55	22.9	514.8
17		50	50.65	126.85	16	3	57.7	510.6
18	15	52	57.50	127.15	−16	12	28.3	−506.4
19		55	4.65	127.45		20	54.7	502.0
20		57	12.10	127.75		29	16.7	497.7
21	15	59	19.85	128.05		37	34.4	493.3
22	16	1	27.90	128.35		45	47.7	488.8
23		3	36.25	128.64	16	53	56.5	484.2
	12 月 14 日							
0	16	5	44.89	128.95	−17	2	0.7	−479.6
1		7	53.84	129.25		10	0.3	474.9
2		10	3.09	129.56		17	55.2	470.2
3		12	12.65	129.86		25	45.4	465.4
4		14	22.51	130.16		33	30.8	460.6
5		16	32.67	130.46		41	11.4	455.5
6	16	18	43.13	130.77	−17	48	46.9	−450.5
7		20	53.90	131.07	17	56	17.4	445.5
8		23	4.97	131.37	18	3	42.9	440.5
9		25	16.34	131.67		11	3.4	435.2
10		27	28.01	131.98		18	18.6	430.0
11		29	39.99	132.28		25	28.6	424.6
12	16	31	52.27	132.58	−18	32	33.2	−419.3
13		34	4.85	132.88		39	32.5	413.8
14		36	17.73	133.18		46	26.3	408.4
15		38	30.91	133.48		53	14.7	402.8
16		40	44.39	133.78	18	59	57.5	397.1
17		42	58.17	134.08	19	6	34.6	391.5
18	16	45	12.25	134.37	−19	13	6.1	−385.8
19		47	26.62	134.67		19	31.9	379.9
20		49	41.29	134.96		25	51.8	374.1
21		51	56.25	135.26		32	5.9	368.1
22		54	11.51	135.55		38	14.0	362.1
23		56	27.06	135.83		44	16.1	356.0
	12 月 15 日							
0	16	58	42.89	136.13	−19	50	12.1	−350.0
1	17	0	59.02	136.40	19	56	2.1	343.8
2		3	15.42	136.70	20	1	45.9	337.6
3		5	32.12	136.97		7	23.5	331.2
4		7	49.09	137.26		12	54.7	324.9
5		10	6.35	137.53		18	19.6	318.5
6	17	12	23.88	137.81	−20	23	38.1	−312.1
7		14	41.69	138.08		28	50.2	305.4
8		16	59.77	138.36		33	55.6	298.9
9		19	18.13	138.61		38	54.5	292.3
10		21	36.74	138.89		43	46.8	285.6
11		23	55.63	139.14		48	32.4	278.8
12	17	26	14.77	139.40	−20	53	11.2	−272.0
13		28	34.17	139.66	20	57	43.2	265.2
14		30	53.83	139.92	21	2	8.4	258.3
15		33	13.75	140.17		6	26.7	251.3
16		35	33.92	140.41		10	38.0	244.3
17		37	54.33	140.66		14	42.3	237.2
18	17	40	14.99	140.89	−21	18	39.5	−230.2
19		42	35.88	141.13		22	29.7	222.9
20		44	57.01	141.37		26	12.6	215.7
21		47	18.38	141.59		29	48.3	208.5
22		49	39.97	141.82		33	16.8	201.2
23		52	1.79	142.03		36	38.0	−193.8
24	17	54	23.82		−21	39	51.8	

世界時	赤経				赤緯			
	12 月 16 日							
h	h	m	s	s	°	′	″	″
0	17	54	23.82	142.26	−21	39	51.8	−186.4
1		56	46.08	142.47		42	58.2	179.0
2	17	59	8.55	142.68		45	57.2	171.5
3	18	1	31.23	142.88		48	48.7	163.9
4		3	54.11	143.08		51	32.6	156.4
5		6	17.19	143.28		54	9.0	148.8
6	18	8	40.47	143.47	−21	56	37.8	−141.1
7		11	3.94	143.64	21	58	58.9	133.5
8		13	27.58	143.84	22	1	12.4	125.8
9		15	51.42	144.01		3	18.2	117.9
10		18	15.43	144.19		5	16.1	110.2
11		20	39.62	144.35		7	6.3	102.3
12	18	23	3.97	144.52	−22	8	48.6	− 94.5
13		25	28.49	144.67		10	23.1	86.6
14		27	53.16	144.83		11	49.7	78.7
15		30	17.99	144.97		13	8.4	70.7
16		32	42.96	145.12		14	19.1	62.8
17		35	8.08	145.25		15	21.9	54.7
18	18	37	33.33	145.38	−22	16	16.6	− 46.7
19		39	58.71	145.50		17	3.3	38.7
20		42	24.21	145.63		17	42.0	30.6
21		44	49.84	145.74		18	12.6	22.4
22		47	15.58	145.86		18	35.0	14.4
23		49	41.44	145.96		18	49.4	− 6.2
	12 月 17 日							
0	18	52	7.40	146.06	−22	18	55.6	+ 1.9
1		54	33.46	146.15		18	53.7	10.1
2		56	59.61	146.24		18	43.6	18.4
3	18	59	25.85	146.32		18	25.2	26.5
4	19	1	52.17	146.40		17	58.7	34.8
5		4	18.57	146.48		17	23.9	42.9
6	19	6	45.05	146.54	−22	16	41.0	+ 51.2
7		9	11.59	146.59		15	49.8	59.4
8		11	38.18	146.65		14	50.4	67.7
9		14	4.83	146.71		13	42.7	75.9
10		16	31.54	146.75		12	26.8	84.2
11		18	58.29	146.78		11	2.6	92.4
12	19	21	25.07	146.82	−22	9	30.2	+100.8
13		23	51.89	146.84		7	49.4	108.9
14		26	18.73	146.87		6	0.5	117.3
15		28	45.60	146.88		4	3.2	125.4
16		31	12.48	146.90	22	1	57.8	133.7
17		33	39.38	146.89	21	59	44.1	141.9
18	19	36	6.27	146.89	−21	57	22.2	+150.2
19		38	33.16	146.89		54	52.0	158.4
20		41	0.05	146.88		52	13.6	166.6
21		43	26.93	146.86		49	27.0	174.8
22		45	53.79	146.84		46	32.2	183.0
23		48	20.63	146.81		43	29.2	191.2
	12 月 18 日							
0	19	50	47.44	146.78	−21	40	18.0	+199.3
1		53	14.22	146.74		36	58.7	207.5
2		55	40.96	146.70		33	31.2	215.6
3	19	58	7.66	146.65		29	55.6	223.8
4	20	0	34.31	146.61		26	11.8	231.9
5		3	0.92	146.54		22	19.9	239.8
6	20	5	27.46	146.48	−21	18	20.1	+247.9
7		7	53.94	146.42		14	12.2	255.9
8		10	20.36	146.35		9	56.3	263.9
9		12	46.71	146.26		5	32.4	271.9
10		15	12.97	146.19	21	1	0.5	279.8
11		17	39.16	146.10	20	56	20.7	287.7
12	20	20	5.26		−20	51	33.0	

世界時	赤経				赤緯			
	12 月 18 日							
h	h	m	s	s	°	′	″	″
12	20	20	5.26	146.02	−20	51	33.0	+295.6
13		22	31.28	145.91		46	37.4	303.4
14		24	57.19	145.82		41	34.0	311.2
15		27	23.01	145.72		36	22.8	319.0
16		29	48.73	145.62		31	3.8	326.8
17		32	14.35	145.49		25	37.0	334.3
18	20	34	39.84	145.39	−20	20	2.7	+342.1
19		37	5.23	145.27		14	20.6	349.6
20		39	30.50	145.15		8	31.0	357.2
21		41	55.65	145.03	20	2	33.8	364.8
22		44	20.63	144.90	19	56	29.0	372.3
23		46	45.53	144.76		50	16.7	379.7
	12 月 19 日							
0	20	49	10.34	144.63	−19	43	57.0	+387.1
1		51	34.97	144.49		37	29.9	394.5
2		53	59.46	144.35		30	55.4	401.9
3		56	23.81	144.21		24	13.5	409.0
4	20	58	48.02	144.07		17	24.5	416.3
5	21	1	12.09	143.90		10	28.2	423.4
6	21	3	35.99	143.76	−19	3	24.8	+430.6
7		5	59.75	143.59	18	56	14.2	437.6
8		8	23.34	143.45		48	56.6	444.6
9		10	46.79	143.28		41	32.0	451.6
10		13	10.07	143.12		34	0.4	458.5
11		15	33.19	142.96		26	21.9	465.3
12	21	17	56.15	142.79	−18	18	36.6	+472.1
13		20	18.94	142.63		10	44.5	478.9
14		22	41.57	142.46	18	2	45.6	485.6
15		25	4.03	142.27	17	54	40.0	492.1
16		27	26.30	142.12		46	27.9	498.7
17		29	48.42	141.93		38	9.2	505.3
18	21	32	10.35	141.76	−17	29	43.9	+511.7
19		34	32.11	141.58		21	12.2	518.1
20		36	53.69	141.40		12	34.1	524.5
21		39	15.09	141.22	17	3	49.6	530.6
22		41	36.31	141.05	16	54	59.0	536.8
23		43	57.36	140.86		46	2.2	543.0
	12 月 20 日							
0	21	46	18.22	140.68	−16	36	59.2	+549.1
1		48	38.90	140.50		27	50.1	555.0
2		50	59.40	140.32		18	35.1	561.1
3		53	19.72	140.13	16	9	14.0	566.9
4		55	39.85	139.95	15	59	47.1	572.7
5	21	57	59.80	139.76		50	14.4	578.5
6	22	0	19.56	139.58	−15	40	35.9	+584.2
7		2	39.14	139.39		30	51.7	589.8
8		4	58.53	139.21		21	1.9	595.4
9		7	17.74	139.03		11	6.5	600.7
10		9	36.77	138.84	15	1	5.8	606.2
11		11	55.61	138.66	14	50	59.6	611.6
12	22	14	14.27	138.48	−14	40	48.0	+616.9
13		16	32.75	138.29		30	31.1	622.0
14		18	51.04	138.12		20	9.1	627.3
15		21	9.16	137.93	14	9	41.8	632.2
16		23	27.09	137.75	13	59	9.6	637.2
17		25	44.84	137.57		48	32.4	642.2
18	22	28	2.41	137.40	−13	37	50.2	+647.0
19		30	19.81	137.21		27	3.2	651.8
20		32	37.02	137.05		16	11.4	656.6
21		34	54.07	136.86	13	5	14.8	661.2
22		37	10.93	136.70	12	54	13.6	665.7
23		39	27.63	136.52		43	7.9	+670.3
24	22	41	44.15		−12	31	57.6	

世界時	赤経				赤緯			
	12 月 21 日							
h	h	m	s	s	°	′	″	″
0	22	41	44.15	136.36	−12	31	57.6	+674.7
1		44	0.51	136.17		20	42.9	679.1
2		46	16.68	136.01	12	9	23.8	683.4
3		48	32.69	135.85	11	58	0.4	687.5
4		50	48.54	135.69		46	32.9	691.8
5		53	4.23	135.52		35	1.1	695.7
6	22	55	19.75	135.37	−11	23	25.4	+699.8
7		57	35.12	135.20		11	45.6	703.8
8	22	59	50.32	135.05	11	0	1.8	707.5
9	23	2	5.37	134.89	10	48	14.3	711.3
10		4	20.26	134.75		36	23.0	715.1
11		6	35.01	134.58		24	27.9	718.6
12	23	8	49.59	134.44	−10	12	29.3	+722.3
13		11	4.03	134.30	10	0	27.0	725.6
14		13	18.33	134.16	9	48	21.4	729.1
15		15	32.49	134.02		36	12.3	732.5
16		17	46.51	133.88		23	59.8	735.7
17		20	0.39	133.74	9	11	44.1	738.9
18	23	22	14.13	133.61	− 8	59	25.2	+742.1
19		24	27.74	133.49		47	3.1	745.0
20		26	41.23	133.36		34	38.1	748.1
21		28	54.59	133.23		22	10.0	750.9
22		31	7.82	133.11	8	9	39.1	753.7
23		33	20.93	132.99	7	57	5.4	756.5
	12 月 22 日							
0	23	35	33.92	132.88	− 7	44	28.9	+759.2
1		37	46.80	132.76		31	49.7	761.7
2		39	59.56	132.65		19	8.0	764.3
3		42	12.21	132.55	7	6	23.7	766.6
4		44	24.76	132.44	6	53	37.1	769.1
5		46	37.20	132.34		40	48.0	771.4
6	23	48	49.54	132.25	− 6	27	56.6	+773.6
7		51	1.79	132.15		15	3.0	775.7
8		53	13.94	132.06	6	2	7.3	777.9
9		55	26.00	131.97	5	49	9.4	779.8
10		57	37.97	131.89		36	9.6	781.8
11	23	59	49.86	131.80		23	7.8	783.5
12	0	2	1.66	131.73	− 5	10	4.3	+785.3
13		4	13.39	131.65	4	56	59.0	787.1
14		6	25.04	131.58		43	51.9	788.7
15		8	36.62	131.52		30	43.2	790.3
16		10	48.14	131.45		17	32.9	791.7
17		12	59.59	131.38	4	4	21.2	793.1
18	0	15	10.97	131.34	− 3	51	8.1	+794.5
19		17	22.31	131.27		37	53.6	795.7
20		19	33.58	131.23		24	37.9	796.8
21		21	44.81	131.18	3	11	21.1	798.0
22		23	55.99	131.14	2	58	3.1	799.0
23		26	7.13	131.10		44	44.1	800.0
	12 月 23 日							
0	0	28	18.23	131.07	− 2	31	24.1	+800.8
1		30	29.30	131.02		18	3.3	801.6
2		32	40.32	131.00	2	4	41.7	802.4
3		34	51.32	130.98	1	51	19.3	803.0
4		37	2.30	130.95		37	56.3	803.5
5		39	13.25	130.93		24	32.8	804.1
6	0	41	24.18	130.91	− 1	11	8.7	+804.5
7		43	35.09	130.91	0	57	44.2	804.9
8		45	46.00	130.90		44	19.3	805.1
9		47	56.90	130.90		30	54.2	805.3
10		50	7.80	130.90		17	28.9	805.5
11		52	18.70	130.90	− 0	4	3.4	805.5
12	0	54	29.59	130.89	+ 0	9	22.1	+805.5

世界時	赤経				赤緯			
	12 月 23 日							
h	h	m	s	s	°	′	″	″
12	0	54	29.59	130.91	+ 0	9	22.1	+805.6
13		56	40.50	130.91		22	47.7	805.3
14	0	58	51.41	130.93		36	13.0	805.2
15	1	1	2.34	130.94	0	49	38.2	805.0
16		3	13.28	130.96	1	3	3.2	804.6
17		5	24.24	130.98		16	27.8	804.2
18	1	7	35.22	131.02	+ 1	29	52.0	+803.8
19		9	46.24	131.05		43	15.8	803.1
20		11	57.29	131.08	1	56	38.9	802.6
21		14	8.37	131.12	2	10	1.5	801.8
22		16	19.49	131.17		23	23.3	801.0
23		18	30.66	131.20		36	44.3	800.2
	12 月 24 日							
0	1	20	41.86	131.25	+ 2	50	4.5	+799.3
1		22	53.11	131.31	3	3	23.8	798.2
2		25	4.42	131.36		16	42.0	797.2
3		27	15.78	131.42		29	59.2	796.0
4		29	27.20	131.49		43	15.2	794.8
5		31	38.69	131.55	3	56	30.0	793.4
6	1	33	50.24	131.62	+ 4	9	43.4	+792.0
7		36	1.86	131.69		22	55.4	790.6
8		38	13.55	131.77		36	6.0	789.0
9		40	25.32	131.84	4	49	15.0	787.4
10		42	37.16	131.93	5	2	22.4	785.8
11		44	49.09	132.01		15	28.2	783.9
12	1	47	1.10	132.10	+ 5	28	32.1	+782.2
13		49	13.20	132.19		41	34.3	780.1
14		51	25.39	132.29	5	54	34.4	778.1
15		53	37.68	132.38	6	7	32.5	776.1
16		55	50.06	132.48		20	28.6	774.0
17	1	58	2.54	132.58		33	22.6	771.7
18	2	0	15.12	132.70	+ 6	46	14.3	+769.4
19		2	27.82	132.80	6	59	3.7	766.9
20		4	40.62	132.91	7	11	50.6	764.6
21		6	53.53	133.03		24	35.2	761.9
22		9	6.56	133.15		37	17.1	759.4
23		11	19.71	133.26	7	49	56.5	756.7
	12 月 25 日							
0	2	13	32.97	133.39	+ 8	2	33.2	+753.9
1		15	46.36	133.51		15	7.1	751.1
2		17	59.87	133.65		27	38.2	748.2
3		20	13.52	133.76		40	6.4	745.1
4		22	27.28	133.90	8	52	31.5	742.1
5		24	41.18	134.04	9	4	53.6	738.9
6	2	26	55.22	134.17	+ 9	17	12.5	+735.7
7		29	9.39	134.31		29	28.2	732.3
8		31	23.70	134.46		41	40.5	729.0
9		33	38.16	134.59	9	53	49.5	725.6
10		35	52.75	134.75	10	5	55.1	722.0
11		38	7.50	134.89		17	57.1	718.4
12	2	40	22.39	135.04	+10	29	55.5	+714.8
13		42	37.43	135.19		41	50.3	710.9
14		44	52.62	135.35	10	53	41.2	707.2
15		47	7.97	135.50	11	5	28.4	703.1
16		49	23.47	135.66		17	11.5	699.3
17		51	39.13	135.81		28	50.8	695.2
18	2	53	54.94	135.98	+11	40	26.0	+691.0
19		56	10.92	136.13	11	51	57.0	686.8
20	2	58	27.05	136.30	12	3	23.8	682.6
21	3	0	43.35	136.46		14	46.4	678.2
22		2	59.81	136.63		26	4.6	673.8
23		5	16.44	136.79		37	18.4	+669.2
24	3	7	33.23		+12	48	27.6	

世界時	赤経				赤緯			
	12 月 26 日							
h	h	m	s	s	°	′	″	″
0	3	7	33.23	136.97	+12	48	27.6	+664.7
1		9	50.20	137.12	12	59	32.3	660.0
2		12	7.32	137.30	13	10	32.3	655.3
3		14	24.62	137.46		21	27.6	650.4
4		16	42.08	137.64		32	18.0	645.7
5		18	59.72	137.80		43	3.7	640.6
6	3	21	17.52	137.97	+13	53	44.3	+635.6
7		23	35.49	138.14	14	4	19.9	630.6
8		25	53.63	138.32		14	50.5	625.4
9		28	11.95	138.49		25	15.9	620.2
10		30	30.44	138.66		35	36.1	615.0
11		32	49.10	138.84		45	51.1	609.5
12	3	35	7.94	139.00	+14	56	0.6	+604.1
13		37	26.94	139.18	15	6	4.7	598.5
14		39	46.12	139.35		16	3.2	593.0
15		42	5.47	139.53		25	56.2	587.4
16		44	25.00	139.70		35	43.6	581.7
17		46	44.70	139.85		45	25.3	575.9
18	3	49	4.55	140.04	+15	55	1.2	+570.1
19		51	24.59	140.19	16	4	31.3	564.1
20		53	44.78	140.38		13	55.4	558.2
21		56	5.16	140.53		23	13.6	552.1
22	3	58	25.69	140.71		32	25.7	546.0
23	4	0	46.40	140.86		41	31.7	539.8
	12 月 27 日							
0	4	3	7.26	141.03	+16	50	31.5	+533.7
1		5	28.29	141.19	16	59	25.2	527.4
2		7	49.48	141.36	17	8	12.6	521.0
3		10	10.84	141.51		16	53.6	514.5
4		12	32.35	141.67		25	28.1	508.2
5		14	54.02	141.82		33	56.3	501.5
6	4	17	15.84	141.98	+17	42	17.8	+495.0
7		19	37.82	142.13		50	32.8	488.3
8		21	59.95	142.28	17	58	41.1	481.7
9		24	22.23	142.42	18	6	42.8	474.9
10		26	44.65	142.58		14	37.7	468.1
11		29	7.23	142.71		22	25.8	461.2
12	4	31	29.94	142.85	+18	30	7.0	+454.4
13		33	52.79	142.99		37	41.4	447.3
14		36	15.78	143.13		45	8.7	440.3
15		38	38.91	143.26		52	29.0	433.2
16		41	2.17	143.39	18	59	42.2	426.2
17		43	25.56	143.51	19	6	48.4	418.9
18	4	45	49.07	143.63	+19	13	47.3	+411.7
19		48	12.70	143.75		20	39.0	404.5
20		50	36.45	143.87		27	23.5	397.2
21		53	0.32	143.98		34	0.7	389.8
22		55	24.30	144.10		40	30.5	382.5
23	4	57	48.40	144.19		46	53.0	375.0
	12 月 28 日							
0	5	0	12.59	144.30	+19	53	8.0	+367.6
1		2	36.89	144.40	19	59	15.6	360.0
2		5	1.29	144.50	20	5	15.6	352.5
3		7	25.79	144.58		11	8.1	344.8
4		9	50.37	144.67		16	52.9	337.2
5		12	15.04	144.75		22	30.1	329.6
6	5	14	39.79	144.83	+20	27	59.7	+321.9
7		17	4.62	144.91		33	21.6	314.1
8		19	29.53	144.98		38	35.7	306.4
9		21	54.51	145.03		43	42.1	298.6
10		24	19.54	145.10		48	40.7	290.8
11		26	44.64	145.15		53	31.5	+283.0
12	5	29	9.79		+20	58	14.5	

世界時	赤経				赤緯			
	12 月 28 日							
h	h	m	s	s	°	′	″	″
12	5	29	9.79	145.21	+20	58	14.5	+275.2
13		31	35.00	145.25	21	2	49.7	267.1
14		34	0.25	145.30		7	16.8	259.3
15		36	25.55	145.33		11	36.1	251.3
16		38	50.88	145.38		15	47.4	243.5
17		41	16.26	145.39		19	50.9	235.4
18	5	43	41.65	145.41	+21	23	46.3	+227.4
19		46	7.06	145.43		27	33.7	219.4
20		48	32.49	145.45		31	13.1	211.4
21		50	57.94	145.45		34	44.5	203.4
22		53	23.39	145.46		38	7.9	195.3
23		55	48.85	145.45		41	23.2	187.2
	12 月 29 日							
0	5	58	14.30	145.45	+21	44	30.4	+179.1
1	6	0	39.75	145.43		47	29.5	171.1
2		3	5.18	145.41		50	20.6	163.1
3		5	30.59	145.39		53	3.7	154.8
4		7	55.98	145.37		55	38.5	146.8
5		10	21.35	145.32	21	58	5.3	138.6
6	6	12	46.67	145.29	+22	0	23.9	+130.7
7		15	11.96	145.25		2	34.6	122.4
8		17	37.21	145.19		4	37.0	114.4
9		20	2.40	145.13		6	31.4	106.2
10		22	27.53	145.07		8	17.6	98.2
11		24	52.60	145.01		9	55.8	90.1
12	6	27	17.61	144.94	+22	11	25.9	+ 82.0
13		29	42.55	144.85		12	47.9	73.9
14		32	7.40	144.77		14	1.8	65.8
15		34	32.17	144.69		15	7.6	57.8
16		36	56.86	144.59		16	5.4	49.8
17		39	21.45	144.49		16	55.2	41.7
18	6	41	45.94	144.39	+22	17	36.9	+ 33.8
19		44	10.33	144.28		18	10.7	25.7
20		46	34.61	144.17		18	36.4	17.8
21		48	58.78	144.04		18	54.2	9.7
22		51	22.82	143.93		19	3.9	+ 1.8
23		53	46.75	143.78		19	5.7	− 6.1
	12 月 30 日							
0	6	56	10.53	143.66	+22	18	59.6	− 14.0
1	6	58	34.19	143.51		18	45.6	21.8
2	7	0	57.70	143.38		18	23.8	29.8
3		3	21.08	143.21		17	54.0	37.5
4		5	44.29	143.07		17	16.5	45.4
5		8	7.36	142.90		16	31.1	53.2
6	7	10	30.26	142.74	+22	15	37.9	− 60.8
7		12	53.00	142.58		14	37.1	68.6
8		15	15.58	142.40		13	28.5	76.3
9		17	37.98	142.22		12	12.2	83.9
10		20	0.20	142.04		10	48.3	91.5
11		22	22.24	141.85		9	16.8	99.1
12	7	24	44.09	141.67	+22	7	37.7	−106.6
13		27	5.76	141.46		5	51.1	114.2
14		29	27.22	141.26		3	56.9	121.7
15		31	48.48	141.06	22	1	55.2	129.0
16		34	9.54	140.86	21	59	46.2	136.5
17		36	30.40	140.63		57	29.7	143.8
18	7	38	51.03	140.42	+21	55	5.9	−151.2
19		41	11.45	140.20		52	34.7	158.4
20		43	31.65	139.98		49	56.3	165.6
21		45	51.63	139.75		47	10.7	172.8
22		48	11.38	139.52		44	17.9	179.9
23		50	30.90	139.28		41	18.0	−187.1
24	7	52	50.18		+21	38	10.9	

世界時	赤経				赤緯				世界時	赤経				赤緯			
	12月31日									12月31日							
h	h	m	s	s	°	′	″	″	h	h	m	s	s	°	′	″	″
0	7	52	50.18	139.05	+21	38	10.9	−194.1	12	8	20	22.15	135.96	+20	51	50.2	−274.9
1		55	9.23	138.81		34	56.8	201.1	13		22	38.11	135.68		47	15.3	281.2
2		57	28.04	138.56		31	35.7	208.0	14		24	53.79	135.41		42	34.1	287.6
3	7	59	46.60	138.31		28	7.7	215.0	15		27	9.20	135.13		37	46.5	294.0
4	8	2	4.91	138.07		24	32.7	221.9	16		29	24.33	134.86		32	52.5	300.2
5		4	22.98	137.80		20	50.8	228.6	17		31	39.19	134.57		27	52.3	306.3
6	8	6	40.78	137.55	+21	17	2.2	−235.4	18	8	33	53.76	134.29	+20	22	46.0	−312.5
7		8	58.33	137.29		13	6.8	242.1	19		36	8.05	134.01		17	33.5	318.5
8		11	15.62	137.03		9	4.7	248.8	20		38	22.06	133.72		12	15.0	324.5
9		13	32.65	136.77		4	55.9	255.3	21		40	35.78	133.43		6	50.5	330.5
10		15	49.42	136.51	21	0	40.6	261.9	22		42	49.21	133.14	20	1	20.0	336.5
11		18	5.93	136.22	20	56	18.7	−268.5	23		45	2.35	132.86	19	55	43.5	−342.2
12	8	20	22.15		+20	51	50.2		24	8	47	15.21		+19	50	1.3	

月ノ位相

世界時

		月	日	h	m	月	日	h	m	月	日	h	m	月	日	h	m
☽	上弦	1	2	20	4	3	31	12	34	6	28	17	27	9	25	12	7
○	望		10	10	9	4	8	17	22	7	6	4	27	10	2	4	22
☾	下弦		18	15	32		16	4	59		12	20	38		9	1	12
●	朔	1	25	15	24		22	20	43		20	5	42		17	5	35
☽	上弦	2	1	7	8	4	30	6	6	7	28	9	23	10	24	22	48
○	望		9	5	29	5	8	7	28	8	4	12	39	10	31	13	35
☾	下弦		17	7	42		15	11	12		11	2	52	11	7	18	28
●	朔	2	24	1	59		22	6	12		18	20	25		15	22	29
☽	上弦	3	1	20	40	5	30	0	6	8	26	23	39	11	23	7	53
○	望		10	0	28	6	6	18	58	9	2	20	21	11	30	0	52
☾	下弦		17	20	5		13	15	56		9	12	3	12	7	14	57
●	朔		24	11	36		20	17	0		17	12	37		15	14	35
☽	上弦	3	31	12	34	6	28	17	27	9	25	12	7	12	22	15	54
○	望	4	8	17	22	7	6	4	27	10	2	4	22	12	29	14	38

遠地點					近地點				
月	日	h			月	日	h		
1	14	0	1.05567		7	24	17	1.05472	
2	10	7	1.05703		8	21	6	1.05711	
3	8	7	1.05694		9	17	11	1.05784	
4	4	18	1.05520		10	14	14	1.05684	
5	2	11	1.05271		11	11	3	1.05461	
	30	6	1.05137		12	8	22	1.05254	
6	27	0	1.04977						

近地點					近地點				
月	日	h			月	日	h		
1	26	11	0.93141		8	5	22	0.93637	
2	23	23	0.92833		9	3	6	0.92911	
3	23	10	0.93360		10	1	17	0.92914	
4	20	14	0.94516			30	2	0.93700	
5	17	22	0.95813		11	27	4	0.95075	
6	12	0	0.96022		12	23	12	0.96295	
7	8	22	0.94849						

平均黄経及昇交點ノ平均黄経

世界時 0h	平均黄経	昇交點ノ平均黄経	世界時 0h	平均黄経	昇交點ノ平均黄経	平均黄経ノ變化	
月 日	°	°	月 日	°	°	d	°
1 1	341.7206	128.1877	7 4	259.3540	118.3912	0.1	1.31764
6	47.6026	127.9229	9	325.2360	118.1264	2	2.63528
11	113.4846	127.6581	14	31.1180	117.8617	3	3.95292
16	179.3666	127.3934	19	97.0000	117.5969	4	5.27056
21	245.2486	127.1286	24	162.8819	117.3321	5	6.58820
26	311.1305	126.8638	29	228.7639	117.0674	6	7.90584
31	17.0125	126.5991	8 3	294.6459	116.8026	7	9.22348
2 5	82.8945	126.3343	8	0.5279	116.5378	8	10.54112
10	148.7765	126.0695	13	66.4099	116.2730	9	11.85876
15	214.6585	125.8047	18	132.2919	116.0083	1.0	13.17640
20	280.5405	125.5400	23	198.1738	115.7435	2.0	26.35279
25	346.4224	125.2752	28	264.0558	115.4787	3.0	39.52919
3 1	52.3044	125.0104	9 2	329.9378	115.2140	4.0	52.70559
6	118.1864	124.7457	7	35.8198	114.9492	5.0	65.88198
11	184.0684	124.4809	12	101.7018	114.6844		
16	249.9504	124.2161	17	167.5838	114.4197	h	°
21	315.8324	123.9514	22	233.4657	114.1549	1	0.54902
26	21.7143	123.6866	27	299.3477	113.8901	2	1.09803
31	87.5963	123.4218	10 2	5.2297	113.6253	3	64705
4 5	153.4783	123.1571	7	71.1117	113.3606	4	2.19607
10	219.3603	122.8923	12	136.9937	113.0958	5	74508
15	285.2423	122.6275	17	202.8757	112.8310	6	3.29410
20	351.1243	122.3627	22	268.7577	112.5663	7	84312
25	57.0062	122.0980	27	334.6396	112.3015	8	4.39213
30	122.8882	121.8332	11 1	40.5216	112.0367	9	94115
5 5	188.7702	121.5684	6	106.4036	111.7720	10	5.49017
10	254.6522	121.3037	11	172.2856	111.5072	11	6.03918
15	320.5342	121.0389	16	238.1676	111.2424	12	58820
20	26.4162	120.7741	21	304.0496	110.9777	13	7.13721
25	92.2981	120.5094	26	9.9315	110.7129	14	68623
30	158.1801	120.2446	12 1	75.8135	110.4481	15	8.23525
6 4	224.0621	119.9798	6	141.6955	110.1833	16	8.78426
9	289.9441	119.7150	11	207.5775	109.9186	17	9.33328
14	355.8261	119.4503	16	273.4595	109.6538	18	88230
19	61.7081	119.1855	21	339.3415	109.3890	19	10.43131
24	127.5900	118.9207	26	45.2234	109.1243	20	98033
29	193.4720	118.6560	31	111.1054	108.8595	21	11.52935
7 4	259.3540	118.3912	12 36	176.9874	108.5947	22	12.07836
						23	62738

昇交點ノ平均黄經1日差 ..... −0.052954

平均黄經ノ變化

m	°	m	°	m	°	m	°
1	0.00915	16	0.14640	31	0.28366	46	0.42091
2	01830	17	15555	32	29281	47	43006
3	02745	18	16470	33	30196	48	43921
4	03660	19	17386	34	31111	49	44836
5	04575	20	18301	35	32026	50	45751
6	0.05490	21	0.19216	36	0.32941	51	0.46666
7	06405	22	20131	37	33856	52	47581
8	07320	23	21046	38	34771	53	48496
9	08235	24	21961	39	35686	54	49411
10	09150	25	22876	40	36601	55	50327
11	0.10065	26	0.23791	41	0.37516	56	0.51242
12	10980	27	24706	42	38431	57	52157
13	11895	28	25621	43	39346	58	53072
14	12810	29	26536	44	40261	59	53987
15	0.13725	30	0.27451	45	0.41176	60	0.54902

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
1	1.0	345	28	58.8	− 3	16	2.0	16	14.71	59	37.34	− 17.21	4.8	17	9.4	
	1.5	352	36	36.7	3	45	4.9		10.02		20.13	18.29				50.1
	2.0	359	40	13.0	4	10	25.1	16	5.04	59	1.84	18.94	5.8	17	59.5	
	2.5	6	39	38.8		31	45.7	15	59.88	58	42.90	19.25				48.9
	3.0	13	34	51.4	4	48	54.7		54.63		23.65	19.25	6.8	18	48.4	
	3.5	20	25	51.4	− 5	1	45.1	15	49.39	58	4.40	− 19.00				48.4
	4.0	27	12	42.1		10	13.9		44.21	57	45.40	18.57	7.8	19	36.8	
	4.5	33	55	29.3		14	21.9		39.15		26.83	18.00				48.6
	5.0	40	34	19.8		14	13.3		34.25	57	8.83	17.35	8.8	20	25.4	
	5.5	47	9	21.3		9	55.6		29.52	56	51.48	16.63				49.3
	6.0	53	40	41.9	− 5	1	38.6	15	24.99	56	34.85	− 15.90	9.8	21	14.7	
	6.5	60	8	29.9	4	49	34.8		20.66		18.95	15.15				50.0
	7.0	66	32	53.1		33	58.7		16.53	56	3.80	14.42	10.8	22	4.7	
	7.5	72	53	59.5	4	15	6.7		12.61	55	49.38	13.68				50.5
	8.0	79	11	56.9	3	53	16.7		8.88		35.70	12.94	11.8	22	55.2	
	8.5	85	26	52.8	− 3	28	48.1	15	5.35	55	22.76	− 12.22				50.2
	9.0	91	38	55.3	3	2	1.2	15	2.02	55	10.54	11.44	12.8	23	45.4	
	9.5	97	48	12.3	2	33	17.2	14	58.90	54	59.10	10.65				49.5
	10.0	103	54	53.0	2	2	57.9		56.00		48.45	9.81	13.8	···	···	
	10.5	109	59	6.9	1	31	25.1		53.33		38.64	8.88				
	11.0	116	1	5.3	− 0	59	0.8	14	50.91	54	29.76	− 7.86	14.8	0	34.9	
	11.5	122	1	0.2	− 0	26	6.8		48.77		21.90	6.73				48.0
	12.0	127	59	6.1	+ 0	6	55.8		46.94		15.17	5.47	15.8	1	22.9	
	12.5	133	55	38.6	0	39	46.5		45.45		9.70	4.09				46.2
	13.0	139	50	55.8	1	12	5.4		44.33		5.61	2.56	16.8	2	9.1	
	13.5	145	45	17.7	+ 1	43	33.6	14	43.64	54	3.05	− 0.86				44.6
	14.0	151	39	6.5	2	13	53.0		43.40		2.19	+ 0.95	17.8	2	53.7	
	14.5	157	32	46.5	2	42	46.5		43.66		3.14	2.92				43.1
	15.0	163	26	44.2	3	9	57.6		44.45		6.06	5.03	18.8	3	36.8	
	15.5	169	21	28.1		35	10.7		45.82		11.09	7.23				42.3
	16.0	175	17	28.5	+ 3	58	10.8	14	47.80	54	18.32	+ 9.55	19.8	4	19.1	
	16.5	181	15	17.3	4	18	43.3		50.40		27.87	11.94				42.2
	17.0	187	15	28.1		36	34.3		53.65		39.81	14.37	20.8	5	1.3	
	17.5	193	18	35.0	4	51	30.1	14	57.56	54	54.18	16.78				43.0
	18.0	199	25	12.9	5	3	17.3	15	2.14	55	10.96	19.16	21.8	5	44.3	
	18.5	205	35	56.2	+ 5	11	43.1	15	7.36	55	30.12	+ 21.44				44.6
	19.0	211	51	19.0		16	34.8		13.20	55	51.56	23.56	22.8	6	28.9	
	19.5	218	11	53.5		17	40.9		19.62	56	15.12	25.45				47.2
	20.0	224	38	9.1		14	50.5		26.55	56	40.57	27.02	23.8	7	16.1	
	20.5	231	10	32.0	5	7	54.7		33.91	57	7.59	28.22				50.7
	21.0	237	49	23.4	+ 4	56	46.4	15	41.60	57	35.81	+ 28.94	24.8	8	6.8	
	21.5	244	34	58.2		41	21.9		49.49	58	4.75	29.11				54.7
	22.0	251	27	24.3	4	21	41.1	15	57.42	58	33.86	28.66	25.8	9	1.5	
	22.5	258	26	41.0	3	57	48.7	16	5.22	59	2.52	27.52				58.6
	23.0	265	32	38.1	3	29	55.4		12.72		30.04	25.66	26.8	10	0.1	
	23.5	272	44	55.3	+ 2	58	18.1	16	19.71	59	55.70	+ 23.08				61.3
	24.0	280	3	1.8	2	23	21.0		26.00	60	18.78	19.81	27.8	11	1.4	
	24.5	287	26	16.2	1	45	35.5		31.40		38.59	15.93				62.4
	25.0	294	53	48.1	1	5	39.7		35.74	60	54.52	11.53	28.8	12	3.8	
	25.5	302	24	38.2	+ 0	24	17.7		38.88	61	6.05	6.80				61.3
	26.0	309	57	41.3	− 0	17	42.4	16	40.73	61	12.85	+ 1.89	0.4	13	5.1	
	26.5	317	31	48.1	0	59	29.7		41.25		14.74	− 3.02				58.9
	27.0	325	5	47.8	1	40	13.2		40.42		11.72	7.72	1.4	14	4.0	
	27.5	332	38	31.2	2	19	4.2		38.32	61	4.00	12.07				55.9
	28.0	340	8	52.6	2	55	17.8		35.03	60	51.93	15.90	2.4	14	59.9	
	28.5	347	35	52.8	− 3	28	15.3	16	30.70	60	36.03	− 19.15				53.1
	29.0	354	58	40.4	3	57	24.8		25.48	60	16.88	21.76	3.4	15	53.0	
	29.5	2	16	33.1	4	22	21.8		19.55	59	55.12	23.70				51.0
	30.0	9	28	58.5		42	49.3		13.10		31.42	24.97	4.4	16	44.0	
	30.5	16	35	33.7	4	58	37.9	16	6.29	59	6.45	25.65				49.7
	31.0	23	36	5.9	− 5	9	44.1	15	59.31	58	40.80	− 25.79	5.4	17	33.7	
	31.5	30	30	30.0		16	10.0		52.28	58	15.01	− 25.46				49.2
2	1.0	37	18	49.1	− 5	18	2.4	15	45.34	57	49.55		6.4	18	22.9	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
2	1.0	37	18	49.1	− 5	18	2.4	15	45.34	57	49.55	− 24.75	6.4	18	22.9	
	1.5	44	1	12.5		15	31.5		38.60		24.80	23.71				49.3
	2.0	50	37	54.6	5	8	50.5		32.14	57	1.09	22.47	7.4	19	12.2	
	2.5	57	9	14.0	4	58	14.5		26.02	56	38.62	21.04				49.7
	3.0	63	35	31.5		44	0.3		20.29	56	17.58	19.51	8.4	20	1.9	
	3.5	69	57	10.6	− 4	26	25.5	15	14.97	55	58.07					49.9
	4.0	76	14	35.2	4	5	49.0		10.09		40.15	− 17.92	9.4	20	51.8	
	4.5	82	28	9.5	3	42	29.7		5.64		23.82	16.33				49.8
	5.0	88	38	17.9	3	16	47.4	15	1.62	55	9.07	14.75	10.4	21	41.6	
	5.5	94	45	23.5	2	49	2.0	14	58.03	54	55.87	13.20				49.3
	6.0	100	49	49.0	− 2	19	33.7	14	54.84	54	44.17	11.70	11.4	22	30.9	
	6.5	106	51	55.5	1	48	42.8		52.04		33.90	− 10.27				48.2
	7.0	112	52	3.2	1	16	50.0		49.62		25.00	8.90	12.4	23	19.1	
	7.5	118	50	30.9	0	44	15.7		47.55		17.42	7.58				
	8.0	124	47	36.2	− 0	11	20.5		45.83		11.11	6.31	13.4	···	···	46.7
	8.5	130	43	36.0	+ 0	21	35.4	14	44.45	54	6.05	5.06				
	9.0	136	38	46.2	0	54	11.7		43.40	54	2.20	− 3.85	14.4	0	5.8	
	9.5	142	33	22.5	1	26	8.8		42.69	53	59.59	2.61				45.2
	10.0	148	27	39.8	1	57	7.6		42.32		58.22	1.37	15.4	0	51.0	
	10.5	154	21	53.6	2	26	49.4		42.30		58.15	− 0.07				43.6
	11.0	160	16	19.4	+ 2	54	56.5	14	42.64	53	59.41	+ 1.26	16.4	1	34.6	
	11.5	166	11	13.7	3	21	12.1		43.37	54	2.09	+ 2.68				42.6
	12.0	172	6	53.2	3	45	20.0		44.51		6.27	4.18	17.4	2	17.2	
	12.5	178	3	36.5	4	7	5.2		46.08		12.04	5.77				42.1
	13.0	184	1	42.8		26	13.6		48.12		19.50	7.46	18.4	2	59.3	
	13.5	190	1	33.2	+ 4	42	32.0	14	50.63	54	28.74	9.24				42.2
	14.0	196	3	30.0	4	55	48.2		53.66		39.86	+ 11.12	19.4	3	41.5	
	14.5	202	7	57.2	5	5	51.1	14	57.22	54	52.93	13.07				43.2
	15.0	208	15	20.1		12	30.4	15	1.33	55	8.01	15.08	20.4	4	24.7	
	15.5	214	26	5.1		15	37.0		6.00		25.13	17.12				45.1
	16.0	220	40	39.6	+ 5	15	2.8	15	11.22	55	44.29	19.16	21.4	5	9.8	
	16.5	226	59	31.3		10	41.0		16.98	56	5.44	+ 21.15				47.7
	17.0	233	23	8.2	5	2	26.3		23.26		28.49	23.05	22.4	5	57.5	
	17.5	239	51	56.8	4	50	15.3		30.01	56	53.26	24.77				51.0
	18.0	246	26	22.7		34	7.1		37.16	57	19.52	26.26	23.4	6	48.5	
	18.5	253	6	47.9	+ 4	14	3.2	15	44.64	57	46.97	27.45				54.8
	19.0	259	53	30.9	3	50	8.9	15	52.33	58	15.20	+ 28.23	24.4	7	43.3	
	19.5	266	46	44.9	3	22	33.8	16	0.10	58	43.73	28.53				58.1
	20.0	273	46	36.2	2	51	32.0		7.80	59	11.98	28.25	25.4	8	41.4	
	20.5	280	53	3.5	2	17	23.5		15.25	59	39.31	27.33				60.5
	21.0	288	5	55.6	+ 1	40	34.4	16	22.26	60	5.03	25.72	26.4	9	41.9	
	21.5	295	24	51.5	1	1	36.9		28.62		28.40	+ 23.37				61.3
	22.0	302	49	18.7	+ 0	21	9.3		34.15	60	48.69	20.29	27.4	10	43.2	
	22.5	310	18	33.3	− 0	20	4.6		38.65	61	5.21	16.52				60.4
	23.0	317	51	41.1	1	1	16.8		41.97		17.38	12.17	28.4	11	43.6	
	23.5	325	27	37.7	− 1	41	37.1	16	43.97	61	24.74	7.36				58.3
	24.0	333	5	11.3	2	20	14.6		44.58		26.98	+ 2.24	29.4	12	41.9	
	24.5	340	43	5.0	2	56	21.1		43.78		24.03	− 2.95				56.1
	25.0	348	19	59.7	3	29	12.2		41.58		15.97	8.06	0.9	13	38.0	
	25.5	355	54	37.9	3	58	10.3		38.08	61	3.12	12.85				53.9
	26.0	3	25	46.6	− 4	22	45.6	16	33.40	60	45.92	17.20	1.9	14	31.9	
	26.5	10	52	20.3		42	36.7		27.70		25.00	− 20.92				52.3
	27.0	18	13	23.5	4	57	31.4		21.16	60	1.02	23.98	2.9	15	24.2	
	27.5	25	28	12.1	5	7	25.6		14.00	59	34.73	26.29				51.3
	28.0	32	36	14.1		12	22.6	16	6.41	59	6.86	27.87	3.9	16	15.5	
	28.5	39	37	10.1	− 5	12	31.8	15	58.58	58	38.12	28.74				51.0
	29.0	46	30	52.1	5	8	7.7		50.69	58	9.17	− 28.95	4.9	17	6.5	
	29.5	53	17	22.4	4	59	28.0		42.90	57	40.58	28.59				50.8
3	1.0	59	56	53.0	− 4	46	52.9	15	35.34	57	12.83	− 27.75	5.9	17	57.3	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
3	1.0	59	56	53.0	− 4	46	52.9	15	35.34	57	12.83	− 26.49	5.9	17	57.3	50.6
	1.5	66	29	42.8		30	43.9		28.12	56	46.34	24.90				
	2.0	72	56	17.0	4	11	23.2		21.34	56	21.44	23.10	6.9	18	47.9	
	2.5	79	17	5.4	3	49	13.2		15.05	55	58.34	21.10				50.3
	3.0	85	32	40.5	3	24	35.8		9.30		37.24	19.02	7.9	19	38.2	
	3.5	91	43	36.9	− 2	57	52.4	15	4.11	55	18.22					49.6
	4.0	97	50	30.0	2	29	24.1	14	59.52	55	1.35	− 16.87	8.9	20	27.8	
	4.5	103	53	55.0	1	59	31.3		55.51	54	46.63	14.72				48.4
	5.0	109	54	26.5	1	28	33.7		52.08		34.03	12.60	9.9	21	16.2	
	5.5	115	52	37.8	0	56	51.0		49.21		23.50	10.53				47.0
												8.56				
	6.0	121	49	0.2	− 0	24	42.4	14	46.87	54	14.94		10.9	22	3.2	
	6.5	127	44	3.4	+ 0	7	33.3		45.06		8.28	− 6.66				45.5
	7.0	133	38	14.4	0	39	37.3		43.73		3.39	4.89	11.9	22	48.7	
	7.5	139	31	58.3	1	11	10.9		42.86	54	0.19	3.20				44.1
	8.0	145	25	37.5	1	41	55.9		42.41	53	58.56	1.63	12.9	23	32.8	
												− 0.15				
	8.5	151	19	32.3	+ 2	11	34.0	14	42.37	53	58.41		13.9	...	...	42.9
	9.0	157	14	0.8	2	39	47.5		42.71	53	59.66	+ 1.25				
	9.5	163	9	18.7	3	6	18.8		43.41	54	2.22	2.56				
	10.0	169	5	40.5		30	51.1		44.45		6.05	3.83	14.9	0	15.7	
	10.5	175	3	18.9	3	53	8.6		45.83		11.09	5.04				42.4
												6.24				
	11.0	181	2	25.7	+ 4	12	55.9	14	47.53	54	17.33		15.9	0	58.1	
	11.5	187	3	11.6		29	58.9		49.55		24.76	+ 7.43				42.3
	12.0	193	5	47.3		44	4.7		51.90		33.39	8.63	16.9	1	40.4	
	12.5	199	10	23.2	4	55	1.8		54.59		43.25	9.86				42.9
	13.0	205	17	10.7	5	2	40.3	14	57.62	54	54.37	11.12	17.9	2	23.3	
												12.41				44.3
	13.5	211	26	21.2	+ 5	6	51.6	15	1.00	55	6.78	+ 13.76	18.9	3	7.6	
	14.0	217	38	7.8		7	29.1		4.75		20.54	15.14				46.3
	14.5	223	52	44.6	5	4	27.7		8.87		35.68	16.54	19.9	3	53.9	
	15.0	230	10	27.4	4	57	44.5		13.38	55	52.22	17.94				49.0
	15.5	236	31	32.9		47	18.5		18.27	56	10.16	19.33				
													20.9	4	42.9	
	16.0	242	56	19.6	+ 4	33	10.8	15	23.53	56	29.49	+ 20.65				52.1
	16.5	249	25	6.7	4	15	24.9		29.16	56	50.14	21.87	21.9	5	35.0	
	17.0	255	58	14.2	3	54	7.0		35.12	57	12.01	22.91				55.0
	17.5	262	36	1.7		29	25.9		41.36		34.92	23.73	22.9	6	30.0	
	18.0	269	18	47.9	3	1	33.8		47.82	57	58.65	24.25				57.4
	18.5	276	6	49.7	+ 2	30	46.6	15	54.43	58	22.90	+ 24.40	23.9	7	27.4	
	19.0	283	0	20.7	1	57	23.8	16	1.08	58	47.30	24.10				58.8
	19.5	289	59	30.0	1	21	49.5		7.64	59	11.40	23.29	24.9	8	26.2	
	20.0	297	4	20.6	0	44	32.0		13.99		34.69	21.91				58.9
	20.5	304	14	47.9	+ 0	6	4.7		19.96	59	56.60	19.92				
													25.9	9	25.1	
	21.0	311	30	38.8	− 0	32	55.5	16	25.39	60	16.52	+ 17.31				58.0
	21.5	318	51	29.6	1	11	47.3		30.10		33.83	14.11	26.9	10	23.1	
	22.0	326	16	46.3	1	49	47.1		33.94		47.94	10.35				56.6
	22.5	333	45	43.7	2	26	9.6		36.77	60	58.29	6.16	27.9	11	19.7	
	23.0	341	17	26.2	3	0	9.9		38.44	61	4.45	+ 1.65				55.0
	23.5	348	50	49.1	− 3	31	5.6	16	38.89	61	6.10	− 3.02	28.9	12	14.7	
	24.0	356	24	41.0	3	58	18.3		38.07	61	3.08	7.68				53.8
	24.5	3	57	46.1	4	21	15.8		35.98	60	55.40	12.16	0.5	13	8.5	
	25.0	11	28	48.2		39	33.4		32.67		43.24	16.28				53.1
	25.5	18	56	33.6	4	52	55.1		28.23		26.96	19.94				
													1.5	14	1.6	
	26.0	26	19	54.7	− 5	1	13.1	16	22.80	60	7.02	− 22.99				52.8
	26.5	33	37	52.7		4	28.5		16.53	59	44.03	25.40	2.5	14	54.4	
	27.0	40	49	39.6	5	2	49.7		9.61	59	18.63	27.10				52.7
	27.5	47	54	39.6	4	56	31.3	16	2.23	58	51.53	28.14	3.5	15	47.1	
	28.0	54	52	29.9		45	53.0	15	54.56	58	23.39	28.51				52.5
	28.5	61	42	59.7	− 4	31	17.5	15	46.80	57	54.88	− 28.29	4.5	16	39.6	
	29.0	68	26	9.7	4	13	10.0		39.09	57	26.59	27.53				52.0
	29.5	75	2	10.9	3	51	56.5		31.59	56	59.06	26.33	5.5	17	31.6	
	30.0	81	31	23.1		28	3.0		24.42		32.73	24.72				50.9
	30.5	87	54	12.9	3	1	54.9		17.68	56	8.01	22.84				
													6.5	18	22.5	
	31.0	94	11	12.4	− 2	33	56.6	15	11.46	55	45.17	− 20.73				49.5
	31.5	100	22	57.7	2	4	31.4		5.81		24.44	− 18.43	7.5	19	12.0	
4	1.0	106	30	7.7	− 1	34	1.2	15	0.79	55	6.01					

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
4	1.0	106	30	7.7	− 1	34	1.2	15	0.79	55	6.01	− 16.06	7.5	19	12.0	47.8
	1.5	112	33	22.6	1	2	46.6	14	56.41	54	49.95	13.61				
	2.0	118	33	23.1	− 0	31	7.3		52.70		36.34	11.17	8.5	19	59.8	
	2.5	124	30	49.7	+ 0	0	37.9		49.66		25.17	8.75				46.1
	3.0	130	26	21.7	0	32	11.2		47.28		16.42	6.40	9.5	20	45.9	
	3.5	136	20	36.9	+ 1	3	15.1	14	45.53	54	10.02					44.4
	4.0	142	14	11.0	1	33	32.7		44.40		5.87	− 4.15	10.5	21	30.3	
	4.5	148	7	37.1	2	2	47.2		43.86		3.87	− 2.00				43.2
	5.0	154	1	25.8		30	42.1		43.87		3.90	+ 0.03	11.5	22	13.5	
	5.5	159	56	4.4	2	57	1.0		44.38		5.80	1.90				42.6
												3.64				
	6.0	165	51	57.4	+ 3	21	27.7	14	45.38	54	9.44		12.5	22	56.1	
	6.5	171	49	25.5	3	43	46.6		46.80		14.66	+ 5.22				42.4
	7.0	177	48	46.6	4	3	42.3		48.61		21.31	6.65	13.5	23	38.5	
	7.5	183	50	15.4		21	0.1		50.77		29.25	7.94				43.0
	8.0	189	54	3.2		35	26.1		53.25		38.33	9.08	14.5	...	...	
												10.11				
	8.5	196	0	18.9	+ 4	46	47.8	14	56.00	54	48.44		15.5	0	21.5	
	9.0	202	9	8.8		54	53.8	14	59.00	54	59.45	+ 11.01				44.2
	9.5	208	20	37.2	4	59	34.7	15	2.22	55	11.28	11.83				
	10.0	214	34	46.7	5	0	42.9		5.64		23.84	12.56	16.5	1	5.7	
	10.5	220	51	39.3	4	58	13.2		9.25		37.05	13.21				46.0
												13.84				
	11.0	227	11	16.3	+ 4	52	2.5	15	13.02	55	50.89		17.5	1	51.7	
	11.5	233	33	39.2		42	10.9		16.95	56	5.33	+ 14.44				48.5
	12.0	239	58	50.1		28	40.6		21.03		20.32	14.99	18.5	2	40.2	
	12.5	246	26	52.6	4	11	37.0		25.26		35.85	15.53				51.2
	13.0	252	57	51.2	3	51	8.3		29.64	56	51.90	16.05	19.5	3	31.4	
												16.54				
	13.5	259	31	52.3	+ 3	27	25.8	15	34.14	57	8.44		20.5	4	25.2	53.8
	14.0	266	9	3.7	3	0	43.4		38.77		25.43	+ 16.99				
	14.5	272	49	34.6	2	31	18.2		43.50	57	42.79	17.36				55.8
	15.0	279	33	35.3	1	59	30.3		48.31	58	0.43	17.64	21.5	5	21.0	
	15.5	286	21	16.4	1	25	42.6		53.15		18.20	17.77				57.0
												17.73				
	16.0	293	12	47.6	+ 0	50	21.0	15	57.98	58	35.93		22.5	6	18.0	
	16.5	300	8	17.5	+ 0	13	54.3	16	2.73	58	53.37	+ 17.44				57.1
	17.0	307	7	51.9	− 0	23	6.0		7.33	59	10.24	16.87	23.5	7	15.1	
	17.5	314	11	32.2	1	0	6.0		11.68		26.21	15.97				56.3
	18.0	321	19	14.6	1	36	29.6		15.68		40.91	14.70	24.5	8	11.4	
												13.02				
	18.5	328	30	48.4	− 2	11	39.3	16	19.23	59	53.93		25.5	9	6.5	55.1
	19.0	335	45	55.3	2	44	56.9		22.21	60	4.86	+ 10.93				
	19.5	343	4	8.6	3	15	44.8		24.51		13.30	8.44				53.9
	20.0	350	24	52.4	3	43	27.0		26.02		18.86	5.56	26.5	10	0.4	
	20.5	357	47	22.5	4	7	30.6		26.67		21.23	+ 2.37				53.1
												− 1.07				
	21.0	5	10	47.4	− 4	27	26.9	16	26.38	60	20.16		27.5	10	53.5	
	21.5	12	34	9.2		42	53.2		25.11		15.53	− 4.63				52.8
	22.0	19	56	26.6		53	33.4		22.87	60	7.30	8.23	28.5	11	46.3	
	22.5	27	16	37.1	4	59	18.8		19.68	59	55.57	11.73				53.0
	23.0	34	33	39.9	5	0	8.4		15.59		40.57	15.00	0.1	12	39.3	
												17.96				
	23.5	41	46	38.5	− 4	56	8.4	16	10.70	59	22.61		1.1	13	32.8	53.5
	24.0	48	54	42.9		47	31.8	16	5.12	59	2.14	− 20.47				
	24.5	55	57	12.5		34	37.1	15	58.99	58	39.62	22.52				53.7
	25.0	62	53	35.7	4	17	47.1		52.44	58	15.61	24.01	2.1	14	26.5	
	25.5	69	43	32.4	3	57	27.7		45.65	57	50.66	24.95				53.7
												25.34				
	26.0	76	26	52.6	− 3	34	6.7	15	38.74	57	25.32		3.1	15	20.2	
	26.5	83	3	36.3	3	8	12.3		31.87	57	0.10	− 25.22				52.9
	27.0	89	33	53.2	2	40	12.8		25.17	56	35.51	24.59	4.1	16	13.1	
	27.5	95	58	0.8	2	10	35.3		18.75	56	11.99	23.52				51.4
	28.0	102	16	23.5	1	39	45.7		12.75	55	49.90	22.09	5.1	17	4.5	
												20.31				
	28.5	108	29	31.5	− 1	8	8.0	15	7.21	55	29.59		6.1	17	53.9	49.4
	29.0	114	37	59.2	0	36	4.8	15	2.23	55	11.31	− 18.28				
	29.5	120	42	24.0	− 0	3	56.9	14	57.86	54	55.26	16.05	7.1	18	41.2	47.3
	30.0	126	43	25.8	+ 0	27	56.3		54.14		41.61	13.65				
	30.5	132	41	45.4	0	59	17.0		51.10		30.46	11.15				45.2
												− 8.60				
5	1.0	133	38	4.4	+ 1	29	48.1	14	48.76	54	21.86		8.1	19	26.4	

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5	1.0	138	38	4.4	+ 1	29	48.1	14	48.76	54	21.86	− 6.03	8.1	19	26.4	
	1.5	144	33	3.6	1	59	13.5		47.12		15.83	3.49				43.6
	2.0	150	27	23.3	2	27	17.8		46.17		12.34	− 1.00	9.1	20	10.0	
	2.5	156	21	41.7	2	53	46.1		45.89		11.34	+ 1.39				42.7
	3.0	162	16	35.7	3	18	23.4		46.27		12.73	3.66	10.1	20	52.7	
	3.5	168	12	39.0	+ 3	40	55.4	14	47.27	54	16.39	+ 5.80				42.2
	4.0	174	10	22.7	4	1	7.9		48.85		22.19	7.76	11.1	21	34.9	
	4.5	180	10	14.8		18	46.8		50.96		29.95	9.53				42.7
	5.0	186	12	39.2		33	38.5		53.56		39.48	11.11	12.1	22	17.6	
	5.5	192	17	56.3		45	30.0		56.59	54	50.59	12.45				43.9
	6.0	198	26	22.2	+ 4	54	9.5	14	59.98	55	3.04		13.1	23	1.5	
	6.5	204	38	8.8	4	59	25.7	15	3.68		16.61	+ 13.57				45.8
	7.0	210	53	24.2	5	1	9.6		7.62		31.08	14.47	14.1	23	47.3	
	7.5	217	12	12.0	4	59	13.9		11.74	55	46.21	15.13				
	8.0	223	34	32.4		53	33.7		15.99	56	1.79	15.58	15.1	...	...	48.2
	8.5	230	0	22.4	+ 4	44	6.8	15	20.29	56	17.60	15.81				
	9.0	236	29	35.9		30	54.7		24.61		33.44	+ 15.84	16.1	0	35.5	
	9.5	243	2	5.3	4	14	1.7		28.89	56	49.14	15.70				51.2
	10.0	249	37	41.2	3	53	36.3		33.09	57	4.56	15.42	17.1	1	26.7	
	10.5	256	16	13.5		29	50.2		37.18		19.57	15.01				53.9
	11.0	262	57	32.8	+ 3	2	59.3	15	41.13	57	34.08	14.51	18.1	2	20.6	
	11.5	269	41	29.8	2	33	22.6		44.92	57	48.01	+ 13.93				56.0
	12.0	276	27	56.7	2	1	22.7		48.55	58	1.31	13.30	19.1	3	16.6	
	12.5	283	16	47.1	1	27	25.2		51.99		13.93	12.62				57.2
	13.0	290	7	56.2	0	51	58.2		55.23		25.84	11.91	20.1	4	13.8	
	13.5	297	1	20.8	+ 0	15	32.1	15	58.28	58	37.02	11.18				57.0
	14.0	303	56	58.6	− 0	21	21.1	16	1.11		47.43	+ 10.41	21.1	5	10.8	
	14.5	310	54	47.7	0	58	7.9		3.72	58	57.01	9.58				55.8
	15.0	317	54	46.4	1	34	14.3		6.09	59	5.71	8.70	22.1	6	6.6	
	15.5	324	56	51.7	2	9	5.7		8.19		13.42	7.71				54.2
	16.0	332	0	58.4	− 2	42	8.2	16	9.99	59	20.03	6.61	23.1	7	0.8	
	16.5	339	6	58.5	3	12	48.8		11.45		25.38	+ 5.35				52.6
	17.0	346	14	40.3	3	40	36.1		12.53		29.33	3.95	24.1	7	53.4	
	17.5	353	23	47.0	4	5	1.1		13.17		31.70	2.37				51.6
	18.0	0	33	56.9		25	38.0		13.34		32.29	+ 0.59	25.1	8	45.0	
	18.5	7	44	43.6	− 4	42	5.1	16	12.97	59	30.96	− 1.33				51.2
	19.0	14	55	35.4	4	54	5.2		12.04		27.54	− 3.42	26.1	9	36.2	
	19.5	22	5	56.1	5	1	26.6		10.51		21.91	5.63				51.4
	20.0	29	15	6.7		4	3.6		8.36		14.03	7.88	27.1	10	27.6	
	20.5	36	22	26.2	5	1	56.3		5.60	59	3.89	10.14				52.3
	21.0	43	27	13.4	− 4	55	10.8	16	2.23	58	51.53	12.36	28.1	11	19.9	
	21.5	50	28	48.4		43	59.2	15	58.30		37.10	− 14.43				53.3
	22.0	57	26	34.3		28	38.6		53.86		20.80	16.30	29.1	12	13.2	
	22.5	64	19	59.1	4	9	30.3		48.97	58	2.87	17.93				53.9
	23.0	71	8	36.5	3	46	59.0		43.73	57	43.64	19.23	0.7	13	7.1	
	23.5	77	52	6.7	− 3	21	32.1	15	38.24	57	23.47	20.17				53.9
	24.0	84	30	17.3	2	53	37.8		32.58	57	2.71	− 20.76	1.7	14	1.0	
	24.5	91	3	3.1	2	23	45.3		26.88	56	41.78	20.93				53.0
	25.0	97	30	26.5	1	52	22.9		21.24		21.08	20.70	2.7	14	54.0	
	25.5	103	52	36.3	1	19	58.2		15.76	56	0.97	20.11				51.3
	26.0	110	9	48.2	− 0	46	57.3	15	10.55	55	41.82	19.15	3.7	15	45.3	
	26.5	116	22	22.9	− 0	13	44.5		5.69		23.98	− 17.84				48.9
	27.0	122	30	46.1	+ 0	19	17.5	15	1.26	55	7.75	16.23	4.7	16	34.2	
	27.5	128	35	27.8	0	51	48.3	14	57.34	54	53.36	14.39				46.6
	28.0	134	37	1.0	1	23	28.6		53.99		41.07	12.29	5.7	17	20.8	
	28.5	140	36	1.2	+ 1	54	1.2	14	51.26	54	31.03	10.04				44.4
	29.0	146	33	5.8	2	23	10.1		49.18		23.41	− 7.62	6.7	18	5.2	
	29.5	152	28	53.4	2	50	40.1		47.79		18.29	5.12				43.0
	30.0	158	24	2.9	3	16	17.1		47.10		15.75	− 2.54	7.7	18	48.2	
	30.5	164	19	13.7	3	39	47.6		47.11		15.80	+ 0.05				42.1
	31.0	170	15	4.0	+ 4	0	58.6	14	47.83	54	18.44	2.64	8.7	19	30.3	
	31.5	176	12	10.9		19	37.7		49.24		23.61	+ 5.17				42.1
6	1.0	182	11	10.4	+ 4	35	32.3	14	51.31	54	31.22	+ 7.61	9.7	20	12.4	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
6	1.0	182	11	10.4	+ 4	35	32.3	14	51.31	54	31.22	+ 9.93	9.7	20	12.4	
	1.5	188	12	35.4		48	30.5		54.01		41.15	12.08				43.0
	2.0	194	16	56.8	4	58	20.7	14	57.31	54	53.23	14.05	10.7	20	55.4	
	2.5	200	24	41.8	5	4	52.0	15	1.13	55	7.28	15.77				44.8
	3.0	206	36	13.6		7	54.0		5.43		23.05	17.22	11.7	21	40.2	
	3.5	212	51	51.5	+ 5	7	18.2	15	10.12	55	40.27					47.3
	4.0	219	11	49.9	5	2	57.2		15.13	55	58.64	+ 18.37	12.7	22	27.5	
	4.5	225	36	18.2	4	54	46.0		20.36	56	17.86	19.22				50.4
	5.0	232	5	20.6		42	42.5		25.73		37.57	19.71	13.7	23	17.9	
	5.5	238	38	56.1		26	47.6		31.14	56	57.40	19.83				
	6.0	245	16	58.5	+ 4	7	6.2	15	36.48	57	17.02	19.62	14.7	...	...	53.8
	6.5	251	59	17.1	3	43	47.4		41.67		36.05	+ 19.03				
	7.0	258	45	36.9	3	17	4.6		46.61	57	54.18	18.13	15.7	0	11.7	
	7.5	265	35	39.0	2	47	16.2		51.22	58	11.12	16.94				56.6
	8.0	272	29	2.2	2	14	44.9		55.44		26.59	15.47	16.7	1	8.3	
	8.5	279	25	23.4	+ 1	39	57.7	15	59.20	58	40.41	13.82				58.3
	9.0	286	24	18.2	1	3	25.4	16	2.47	58	52.41	+ 12.00	17.7	2	6.6	
	9.5	293	25	22.5	+ 0	25	41.9		5.21	59	2.48	10.07				58.6
	10.0	300	28	12.2	− 0	12	36.6		7.43		10.61	8.13	18.7	3	5.2	
	10.5	307	32	25.1	0	50	52.9		9.12		16.81	6.20				57.3
	11.0	314	37	39.7	− 1	28	29.1	16	10.29	59	21.11	4.30	19.7	4	2.5	
	11.5	321	43	36.9	2	4	47.9		10.98		23.64	+ 2.53				55.3
	12.0	328	49	58.8	2	39	13.4		11.21		24.48	+ 0.84	20.7	4	57.8	
	12.5	335	56	29.2	3	11	12.2		11.01		23.77	− 0.71				53.0
	13.0	343	2	52.9	3	40	13.5		10.43		21.62	2.15	21.7	5	50.8	
	13.5	350	8	55.7	− 4	5	49.6	16	9.48	59	18.16	3.46				51.2
	14.0	357	14	23.3		27	37.5		8.21		13.48	− 4.68	22.7	6	42.0	
	14.5	4	19	1.6		45	17.6		6.62		7.66	5.82				50.2
	15.0	11	22	35.5	4	58	35.2		4.74	59	0.74	6.92	23.7	7	32.2	
	15.5	18	24	49.6	5	7	20.4		2.57	58	52.79	7.95				50.0
	16.0	25	25	27.1	− 5	11	27.7	16	0.13	58	43.81	8.98	24.7	8	22.2	
	16.5	32	24	10.5		10	56.8	15	57.40		33.82	− 9.99				50.5
	17.0	39	20	41.6	5	5	51.9		54.41		22.83	10.99	25.7	9	12.7	
	17.5	46	14	41.7	4	56	22.0		51.15	58	10.85	11.98				51.6
	18.0	53	5	52.0		42	40.3		47.62	57	57.92	12.93	26.7	10	4.3	
	18.5	59	53	54.8	− 4	25	3.8	15	43.85	57	44.08	13.84				52.7
	19.0	66	38	33.4	4	3	53.2		39.85		29.40	− 14.68	27.7	10	57.0	
	19.5	73	19	33.0	3	39	31.8		35.66	57	14.00	15.40				53.4
	20.0	79	56	41.3	3	12	25.0		31.30	56	58.00	16.00	28.7	11	50.4	
	20.5	86	29	49.1	2	42	59.8		26.82		41.57	16.43				53.3
	21.0	92	58	50.7	− 2	11	44.0	15	22.28	56	24.90	16.67	0.3	12	43.7	
	21.5	99	23	44.0	1	39	5.4		17.73	56	8.21	− 16.69				52.2
	22.0	105	44	31.2	1	5	31.4		13.25	55	51.74	16.47	1.3	13	35.9	
	22.5	112	1	18.1	− 0	31	28.6		8.89		35.73	16.01				50.4
	23.0	118	14	15.1	+ 0	2	37.8		4.72		20.45	15.28	2.3	14	26.3	
	23.5	124	23	36.2	+ 0	36	24.3	15	0.83	55	6.15	14.30				47.9
	24.0	130	29	39.1	1	9	29.0	14	57.26	54	53.08	− 13.07	3.3	15	14.2	
	24.5	136	32	45.1	1	41	31.7		54.11		41.48	11.60				45.6
	25.0	142	33	18.6	2	12	14.1		51.41		31.58	9.90	4.3	15	59.8	
	25.5	148	31	46.8	2	41	19.3		49.23		23.59	7.99				43.6
	26.0	154	28	39.6	+ 3	8	32.2	14	47.62	54	17.68	5.91	5.3	16	43.4	
	26.5	160	24	28.3		33	38.7		46.62		14.01	− 3.67				42.3
	27.0	166	19	46.6	3	56	25.9		46.27		12.72	− 1.29	6.3	17	25.7	
	27.5	172	15	9.2	4	16	41.8		46.59		13.91	+ 1.19				41.7
	28.0	178	11	11.7		34	15.1		47.61		17.62	3.71	7.3	18	7.4	
	28.5	184	8	29.9	+ 4	48	55.0	14	49.32	54	23.91	6.29				42.0
	29.0	190	7	39.9	5	0	31.4		51.73		32.76	+ 8.85	8.3	18	49.4	
	29.5	196	9	16.9		8	54.5		54.83		44.14	11.38				43.2
	30.0	202	13	55.1		13	55.1	14	58.59	54	57.95	13.81	9.3	19	32.6	
	30.5	208	22	7.0		15	24.7	15	2.98	55	14.05	16.10				45.5
	31.0											+ 18.22				
7	1.0	214	34	22.6	+ 5	13	15.5	15	7.94	55	32.27		10.3	20	18.1	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″		″	月齢 d	本初子午線正中時 h	m	
7	1.0	214	34	22.6	+ 5	13	15.5	15	7.94	55	32.27	+	20.09	10.3	20	18.1	m
	1.5	220	51	9.0	5	7	21.2		13.42	55	52.36		21.69				48.5
	2.0	227	12	49.3	4	57	37.0		19.32	56	14.05		22.93	11.3	21	6.6	
	2.5	233	39	42.2		44	0.4		25.57	56	36.98		23.79				52.1
	3.0	240	12	1.2		26	31.8		32.06	57	0.77		24.22	12.3	21	58.7	
	3.5	246	49	54.1	+ 4	5	14.7	15	38.65	57	24.99						55.7
	4.0	253	33	22.3	3	40	17.2		45.23	57	49.15	+	24.16	13.3	22	54.4	
	4.5	260	22	20.5	3	11	51.8		51.67	58	12.75		23.60				58.7
	5.0	267	16	36.5	2	40	16.2	15	57.81		35.30		22.55	14.3	23	53.1	
	5.5	274	15	51.4	2	5	53.3	16	3.52	58	56.27		20.97				
													18.94				
	6.0	281	19	40.0	+ 1	29	11.5	16	8.68	59	15.21			15.3	...	...	60.0
	6.5	288	27	30.9	0	50	44.3		13.17		31.70	+	16.49				
	7.0	295	38	48.2	+ 0	11	9.2		16.90		45.39		13.69	16.3	0	53.1	
	7.5	302	52	51.9	− 0	28	52.7		19.80	59	56.02		10.63				59.8
	8.0	310	8	59.3	1	8	38.5		21.82	60	3.44		7.42	17.3	1	52.9	
	8.5	317	26	26.8	− 1	47	24.8	16	22.96	60	7.61		4.17				57.8
	9.0	324	44	30.3	2	24	29.0		23.22		8.53	+	0.97	18.3	2	50.7	
	9.5	332	2	27.7	2	59	11.1		22.66		6.50	−	2.08				55.4
	10.0	339	19	38.7	3	30	54.6		21.32	60	1.61		4.89	19.3	3	46.1	
	10.5	346	35	26.7	3	59	7.7		19.30	59	54.19		7.42				52.8
													9.61				
	11.0	353	49	19.0	− 4	23	24.0	16	16.68	59	44.58			20.3	4	38.9	
	11.5	1	0	47.4		43	22.9		13.56		33.12	−	11.46				51.1
	12.0	8	9	28.2	4	58	49.7		10.03		20.16		12.96	21.3	5	30.0	
	12.5	15	15	2.2	5	9	35.3		6.18	59	6.03		14.13				50.0
	13.0	22	17	14.6		15	36.2	16	2.10	58	51.05		14.98	22.3	6	20.0	
	13.5	29	15	54.6	− 5	16	53.9	15	57.85	58	35.45		15.60				49.9
	14.0	36	10	54.4		13	34.5		53.50		19.47	−	15.98	23.3	7	9.9	
	14.5	43	2	9.8	5	5	48.0		49.09	58	3.30		16.17				50.5
	15.0	49	49	38.6	4	53	48.0		44.67	57	47.07		16.23	24.3	8	0.4	
	15.5	56	33	20.6		37	51.0		40.26		30.89		16.18				51.4
													16.04				
	16.0	63	13	17.5	− 4	18	16.4	15	35.89	57	14.85	−	15.87	25.3	8	51.8	
	16.5	69	49	31.6	3	55	25.5		31.57	56	58.98		15.63				52.2
	17.0	76	22	6.5		29	41.2		27.31		43.35		15.36	26.3	9	44.0	
	17.5	82	51	6.6	3	1	28.0		23.12		27.99		15.04				52.6
	18.0	89	16	36.9	2	31	11.0		19.02	56	12.95		14.70	27.3	10	36.6	
	18.5	95	38	42.9	− 1	59	16.1	15	15.02	55	58.25	−	14.27				52.1
	19.0	101	57	31.0	1	26	9.2		11.13		43.98		13.81	28.3	11	28.7	
	19.5	108	13	8.4	0	52	15.9		7.37		30.17		13.22				50.8
	20.0	114	25	43.1	− 0	18	1.4		3.77		16.95		12.55	29.3	12	19.5	
	20.5	120	35	24.5	+ 0	16	10.0	15	0.35	55	4.40		11.76				48.8
	21.0	126	42	22.9	+ 0	49	55.1	14	57.15	54	52.64	−	10.82	0.8	13	8.3	
	21.5	132	46	50.4	1	22	52.1		54.20		41.82		9.74				46.6
	22.0	138	49	0.7	1	54	40.5		51.54		32.08		8.50	1.8	13	54.9	
	22.5	144	49	9.1	2	25	1.4		49.23		23.58		7.10				44.4
	23.0	150	47	33.1	2	53	37.5		47.29		16.48		5.54	2.8	14	39.3	
	23.5	156	44	31.7	+ 3	20	13.2	14	45.79	54	10.94	−	3.80				42.7
	24.0	162	40	26.4	3	44	34.1		44.75		7.14	−	1.91	3.8	15	22.0	
	24.5	168	35	40.5	4	6	27.3		44.23		5.23	+	0.11				41.6
	25.0	174	30	39.1		25	41.3		44.26		5.34		2.29	4.8	16	3.6	
	25.5	180	25	49.3		42	5.6		44.88		7.63		4.57				41.4
	26.0	186	21	40.2	+ 4	55	30.7	14	46.13	54	12.20	+	6.95	5.8	16	45.0	
	26.5	192	18	41.9	5	5	48.1		48.02		19.15		9.40				42.0
	27.0	198	17	26.4		12	50.0		50.58		28.55		11.86	6.8	17	27.0	
	27.5	204	18	26.1		16	29.3		53.81		40.41		14.34				43.6
	28.0	210	22	14.3		16	39.7	14	57.72	54	54.75		16.77	7.8	18	10.6	
	28.5	216	29	24.4	+ 5	13	15.9	15	2.29	55	11.52	+	19.11				46.0
	29.0	222	40	29.4	5	6	13.4		7.49		30.63		21.28	8.8	18	56.6	
	29.5	223	56	1.2	4	55	29.1		13.29	55	51.91		23.27				49.3
	30.0	235	16	29.9		41	1.5		19.63	56	15.18		24.97	9.8	19	45.9	
	30.5	241	42	22.7		22	51.3		26.44	56	40.15		26.33				53.0
	31.0	248	14	3.7	+ 4	1	1.8	15	33.61	57	6.48	+	27.27	10.8	20	38.9	
	31.5	254	51	51.9	3	35	39.6		41.04	57	33.75	+	27.72				56.8
8	1.0	261	36	0.8	+ 3	6	55.2	15	48.59	58	1.47			11.8	21	35.7	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″		″	月齢 d	本初子午線正中時 h	m	
8	1.0	261	36	0.8	+ 3	6	55.2	15	48.59	58	1.47			11.8	21	35.7	m
	1.5	268	26	37.3	2	35	3.9	15	56.12		29.09	+	27.62				59.5
	2.0	275	23	40.4	2	0	26.2	16	3.45	58	56.02		26.93	12.8	22	35.2	
	2.5	282	27	0.5	1	23	28.0		10.42	59	21.61		25.59				60.7
	3.0	289	36	18.9	0	44	40.6		16.85	59	45.21		23.60	13.8	23	35.9	
	3.5	296	51	7.2	+ 0	4	41.3	16	22.57	60	6.20		20.99				
	4.0	304	10	47.7	− 0	35	48.5		27.42		23.99	+	17.79	14.8	...	...	60.2
	4.5	311	34	34.1	1	16	3.7		31.27		38.10		14.11				
	5.0	319	1	32.3	1	55	17.2		34.00		48.15		10.05	15.8	0	36.1	
	5.5	326	30	42.0	2	32	42.0		35.57		53.90		5.75				58.2
												+	1.36				
	6.0	334	0	59.6	− 3	7	32.7	16	35.94	60	55.26			16.8	1	34.3	
	6.5	341	31	19.4	3	39	8.2		35.14		52.32	−	2.94				55.7
	7.0	349	0	36.9	4	6	52.4		33.23		45.30		7.02	17.8	2	30.0	
	7.5	356	27	50.9		30	16.5		30.29		34.53		10.77				53.5
	8.0	3	52	5.7	4	48	58.9		26.46		20.47		14.06	18.8	3	23.5	
	8.5	11	12	33.0	− 5	2	45.9	16	21.88	60	3.65		16.82				51.9
	9.0	18	28	32.5		11	31.9		16.69	59	44.60	−	19.05	19.8	4	15.4	
	9.5	25	39	33.6		15	17.5		11.05		23.89		20.71				51.1
	10.0	32	45	14.3		14	10.1	16	5.09	59	2.04		21.85	20.8	5	6.5	
	10.5	39	45	21.5	5	8	21.7	15	58.97	58	39.56		22.48				51.0
													22.69				
	11.0	46	39	50.4	− 4	58	8.5	15	52.79	58	16.87			21.8	5	57.5	
	11.5	53	28	43.0		43	49.7		46.65	57	54.34	−	22.53				51.4
	12.0	60	12	7.3		25	47.2		40.64		32.28		22.06	22.8	6	48.9	
	12.5	66	50	15.9	4	4	23.6		34.82	57	10.94		21.34				51.8
	13.0	73	23	25.0	3	40	3.1		29.25	56	50.48		20.46	23.8	7	40.7	
	13.5	79	51	53.2	− 3	13	10.1	15	23.95	56	31.04		19.44				52.1
	14.0	86	16	0.7	2	44	9.2		18.96	56	12.70	−	18.34	24.8	8	32.8	
	14.5	92	36	8.4	2	13	25.0		14.27	55	55.51		17.19				51.8
	15.0	98	52	37.2	1	41	21.9		9.91		39.49		16.02	25.8	9	24.6	
	15.5	105	5	47.6	1	8	24.1		5.86		24.64		14.85				50.7
													13.69				
	16.0	111	15	59.3	− 0	34	54.7	15	2.13	55	10.95			26.8	10	15.3	
	16.5	117	23	31.1	− 0	1	16.8	14	58.71	54	58.40	−	12.55				49.1
	17.0	123	28	40.5	+ 0	32	7.4		55.60		46.98		11.42	27.8	11	4.4	
	17.5	129	31	43.8	1	4	56.5		52.80		36.68		10.30				47.0
	18.0	135	32	56.8	1	36	50.1		50.29		27.49		9.19	28.8	11	51.4	
	18.5	141	32	33.9	+ 2	7	28.9	14	48.11	54	19.46		8.03				44.9
	19.0	147	30	49.3	2	36	34.7		46.23		12.59	−	6.87	0.2	12	36.3	
	19.5	153	27	56.8	3	3	50.4		44.69		6.94		5.65				43.2
	20.0	159	24	10.2		29	0.6		43.50	54	2.57		4.37	1.2	13	19.5	
	20.5	165	19	43.5	3	51	51.1		42.68	53	59.56		3.01				41.9
													1.56				
	21.0	171	14	51.7	+ 4	12	9.0	14	42.26	53	58.00			2.2	14	1.4	
	21.5	177	9	50.6		29	42.9		42.26		57.99	−	0.01				41.3
	22.0	183	4	57.0		44	22.9		42.71	53	59.64	+	1.65	3.2	14	42.7	
	22.5	189	0	29.7	4	56	0.3		43.64	54	3.07		3.43				41.4
	23.0	194	56	48.8	5	4	27.8		45.09		8.39		5.32	4.2	15	24.1	
	23.5	200	54	16.3	+ 5	9	39.2	14	47.08	54	15.70		7.31				42.4
	24.0	206	53	16.5		11	29.7		49.64		25.10	+	9.40	5.2	16	6.5	
	24.5	212	54	14.8		9	55.3		52.79		36.66		11.56				44.1
	25.0	218	57	39.1	5	4	53.4	14	56.55	54	50.46		13.80	6.2	16	50.6	
	25.5	225	3	58.6	4	56	22.5	15	0.92	55	6.51		16.05				46.8
													18.30				
	26.0	231	13	43.7	+ 4	44	22.3	15	5.91	55	24.81			7.2	17	37.4	
	26.5	237	27	25.8		28	54.0		11.50	55	45.30	+	20.49				49.9
	27.0	243	45	36.5	4	10	0.4		17.64	56	7.88		22.58	8.2	18	27.3	
	27.5	250	8	47.2	3	47	46.5		24.32		32.39		24.51				53.5
	28.0	256	37	27.5	3	22	19.7		31.46	56	58.59		26.20	9.2	19	20.9	
	28.5	263	12	5.3	+ 2	53	50.5	15	38.97	57	26.16		27.57				56.7
	29.0	269	53	4.5	2	22	32.7		46.75	57	54.73	+	28.57	10.2	20	17.6	
	29.5	276	40	44.3	1	48	44.2	15	54.68	58	23.80		29.07				59.1
	30.0	283	35	17.4	1	12	47.6	16	2.58	58	52.82		29.02	11.2	21	16.7	
	30.5	290	36	48.5	+ 0	35	10.5		10.31	59	21.17		28.35				60.0
													26.98				
	31.0	297	45	13.0	− 0	3	34.4	16	17.66	59	48.15	+	24.90	12.2	22	16.7	
	31.5	305	0	15.2	0	42	49.6		24.44	60	13.05	+	22.09				59.3
9	1.0	312	21	27.8	− 1	21	53.3	16	30.46	60	35.14			13.2	23	16.0	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
9	1.0	312	21	27.8	− 1	21	53.3	16	30.46	60	35.14	+18.61	13.2	23	16.0	
	1.5	319	48	11.1	2	0	0.0		35.53	60	53.75	14.51				
	2.0	327	19	33.4	2	36	23.2		39.48	61	8.26	9.94	14.2	...	...	57.8
	2.5	334	54	31.7	3	10	15.6		42.19		18.20	+ 5.03				
	3.0	342	31	53.8	3	40	53.3		43.56		23.23	− 0.01	15.2	0	13.8	
																56.0
	3.5	350	10	21.0	− 4	7	36.3	16	43.56	61	23.22	− 5.05	16.2	1	9.8	
	4.0	357	48	31.3		29	51.4		42.18		18.17	9.82				
	4.5	5	25	3.1		47	13.6		39.51	61	8.35	14.22				54.3
	5.0	12	58	38.7	4	59	26.7		35.63	60	54.13	18.07	17.2	2	4.1	
	5.5	20	28	7.9	5	6	23.9		30.71		36.06	21.31				53.3
	6.0	27	52	30.4	− 5	8	7.2	16	24.90	60	14.75	−23.85	18.2	2	57.4	
	6.5	35	10	57.9	5	4	46.4		18.41	59	50.90	25.71				52.9
	7.0	42	22	54.8	4	56	37.6		11.40	59	25.19	26.88	19.2	3	50.3	
	7.5	49	27	58.4		44	2.1	16	4.08	58	58.31	27.43				52.8
	8.0	56	25	58.1		27	24.6	15	56.60		30.88	27.42	20.2	4	43.1	
																53.0
	8.5	63	16	54.3	− 4	7	12.0	15	49.13	58	3.46	−26.91	21.2	5	36.1	
	9.0	70	0	57.0	3	43	52.1		41.80	57	36.55	26.02				52.9
	9.5	76	38	24.0	3	17	52.9		34.71	57	10.53	24.79				
	10.0	83	9	38.7	2	49	42.0		27.96	56	45.74	23.31	22.2	6	29.0	
	10.5	89	35	9.3	2	19	46.0		21.61		22.43	21.67				52.3
	11.0	95	55	26.4	− 1	48	30.5	15	15.70	56	0.76	−19.92	23.2	7	21.3	
	11.5	102	11	2.8	1	16	19.7		10.28	55	40.84	18.08				51.1
	12.0	108	22	31.2	0	43	36.8		5.35		22.76	16.24	24.2	8	12.4	
	12.5	114	30	24.2	− 0	10	43.8	15	0.93	55	6.52	14.41				49.4
	13.0	120	35	13.3	+ 0	21	58.4	14	57.00	54	52.11	12.62	25.2	9	1.8	
	13.5	126	37	28.3	+ 0	54	9.7	14	53.56	54	39.49	−10.88	26.2	9	49.2	47.4
	14.0	132	37	36.9	1	25	31.3		50.60		28.61	9.21				
	14.5	138	36	4.7	1	55	44.8		48.09		19.40	7.61				45.4
	15.0	144	33	14.8	2	24	33.1		46.02		11.79	6.08	27.2	10	34.6	
	15.5	150	29	28.0	2	51	39.6		44.36		5.71	4.61				43.5
	16.0	156	25	2.8	+ 3	16	48.9	14	43.10	54	1.10	− 3.21	28.2	11	18.1	
	16.5	162	20	15.5	3	39	46.6		42.23	53	57.89	1.85				42.2
	17.0	168	15	20.9	4	0	19.2		41.73		56.04	− 0.50	29.2	12	0.3	
	17.5	174	10	32.0		18	14.7		41.59		55.54	+ 0.82				41.4
	18.0	180	6	0.7		33	22.0		41.81		56.36	2.16	0.5	12	41.7	
	18.5	186	1	58.5	+ 4	45	31.8	14	42.40	53	58.52	+ 3.52	1.5	13	23.1	41.4
	19.0	191	58	36.5	4	54	36.2		43.36	54	2.04	4.91				
	19.5	197	56	6.1	5	0	28.5		44.70		6.95	6.36				41.9
	20.0	203	54	39.4		3	3.9		46.43		13.31	7.87	2.5	14	5.0	
	20.5	209	54	29.5	5	2	19.1		48.58		21.18	9.45				43.3
	21.0	215	55	51.4	+ 4	58	12.2	14	51.15	54	30.53	+11.11	3.5	14	48.3	
	21.5	221	59	1.4		50	43.3		54.17		41.74	12.82				45.3
	22.0	228	4	18.3		39	53.6	14	57.67	54	54.56	14.59	4.5	15	33.6	
	22.5	234	12	2.7		25	46.3	15	1.64	55	9.15	16.41				47.9
	23.0	240	22	37.5	4	8	26.2		6.11		25.56	18.23	5.5	16	21.5	
	23.5	246	36	27.7	+ 3	47	59.4	15	11.08	55	43.79	+20.02	6.5	17	12.5	51.0
	24.0	252	54	0.2	3	24	34.5		16.54	56	3.81	21.76				
	24.5	259	15	42.9	2	58	21.7		22.46		25.57	23.38				53.8
	25.0	265	42	4.5	2	29	33.7		28.83	56	48.95	24.81	7.5	18	6.3	
	25.5	272	13	34.0	1	58	25.8		35.59	57	13.76	26.01				56.3
	26.0	278	50	38.5	+ 1	25	16.1	15	42.68	57	39.77	+26.87	8.5	19	2.6	
	26.5	285	33	43.4	0	50	26.2		50.00	58	6.64	27.33				57.6
	27.0	292	23	9.7	+ 0	14	21.1	15	57.45	58	33.97	27.30	9.5	20	0.2	
	27.5	299	19	13.2	− 0	22	30.4	16	4.88	59	1.27	26.70				58.0
	28.0	306	22	2.1	0	59	35.4		12.16		27.97	25.47	10.5	20	58.2	
	28.5	313	31	35.5	− 1	36	17.5	16	19.10	59	53.44	+23.57	11.5	21	55.5	57.3
	29.0	320	47	41.4	2	11	57.3		25.52	60	17.01	20.97				
	29.5	328	9	55.6	2	45	52.9		31.23		37.98	17.68				56.3
	30.0	335	37	40.8	3	17	21.7		36.05	60	55.66	13.78	12.5	22	51.8	
	30.5	343	10	6.1	3	45	41.6		39.80	61	9.44	+ 9.35				55.2
10	1.0	350	46	8.0	− 4	10	13.7	16	42.35	61	18.79		13.5	23	47.0	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″	″	月齢 d	本初子午線正中時 h	m	m
10	1.0	350	46	8.0	− 4	10	13.7	16	42.35	61	18.79	+ 4.54	13.5	23	47.0	
	1.5	358	24	32.4		30	23.6		43.59		23.33	− 0.50				m
	2.0	6	3	56.9		45	43.7		43.45		22.83	5.56	14.5	...	...	54.6
	2.5	13	42	54.9	4	55	54.6		41.94		17.27	10.48				
	3.0	21	19	59.7	5	0	46.7		39.08	61	6.79	15.02	15.5	0	41.6	
	3.5	28	53	47.9	− 5	0	19.4	16	34.99	60	51.77	−19.09				54.5
	4.0	36	23	4.4	4	54	41.3		29.79		32.68	22.53	16.5	1	36.1	
	4.5	43	46	44.6		44	9.3		23.65	60	10.15	25.27				54.7
	5.0	51	3	57.2		29	6.6		16.76	59	44.88	27.30	17.5	2	30.8	
	5.5	58	14	4.8	4	10	1.1		9.33	59	17.58	28.60				54.9
	6.0	65	16	44.3	− 3	47	24.1	16	1.54	58	48.98	−29.20	18.5	3	25.7	
	6.5	72	11	46.2	3	21	47.8	15	53.58	58	19.78	29.18				54.9
	7.0	78	59	13.2	2	53	44.9		45.63	57	50.60	28.60	19.5	4	20.6	
	7.5	85	39	18.4	2	23	47.0		37.84	57	22.00	27.54				54.2
	8.0	92	12	23.5	1	52	24.4		30.33	56	54.46	26.10	20.5	5	14.8	
	8.5	98	38	57.0	− 1	20	5.0	15	23.22	56	28.36	−24.35				52.8
	9.0	104	59	32.3	0	47	14.9		16.59	56	4.01	22.36	21.5	6	7.6	
	9.5	111	14	46.1	− 0	14	17.9		10.50	55	41.65	20.22				50.8
	10.0	117	25	16.9	+ 0	18	24.2		4.99		21.43	17.98	22.5	6	58.4	
	10.5	123	31	44.1	0	50	31.4	15	0.09	55	3.45	15.69				48.3
	11.0	129	34	46.6	+ 1	21	45.1	14	55.82	54	47.76	−13.39	23.5	7	46.7	
	11.5	135	35	2.4	1	51	48.2		52.17		34.37	11.12				46.0
	12.0	141	33	7.7	2	20	24.8		49.14		23.25	8.93	24.5	8	32.7	
	12.5	147	29	36.5	2	47	19.7		46.70		14.32	6.83				44.0
	13.0	153	25	0.1	3	12	19.0		44.85		7.49	4.81	25.5	9	16.7	
	13.5	159	19	47.3	+ 3	35	9.1	14	43.53	54	2.68	− 2.92				42.5
	14.0	165	14	23.4	3	55	37.5		42.74	53	59.76	− 1.14	26.5	9	59.2	
	14.5	171	9	11.0	4	13	32.5		42.43		58.62	+ 0.51				41.5
	15.0	177	4	29.7		28	43.2		42.57	53	59.13	2.04	27.5	10	40.7	
	15.5	183	0	36.1		40	59.7		43.12	54	1.17	3.46				41.4
	16.0	188	57	44.0	+ 4	50	13.6	14	44.07	54	4.63	+ 4.78	28.5	11	22.1	
	16.5	194	56	5.2		56	17.4		45.37		9.41	6.01				41.8
	17.0	200	55	49.3		59	5.3		47.01		15.42	7.18	29.5	12	3.9	
	17.5	206	57	4.4		58	33.4		48.96		22.60	8.27				43.0
	18.0	212	59	57.4		54	39.3		51.21		30.87	9.34	0.8	12	46.9	
	18.5	219	4	35.3	+ 4	47	22.7	14	53.76	54	40.21	+10.39				44.9
	19.0	225	11	4.5		36	45.4		56.59	54	50.60	11.42	1.8	13	31.8	
	19.5	231	19	32.5		22	51.2	14	59.70	55	2.02	12.48				47.2
	20.0	237	30	7.7	4	5	46.0	15	3.10		14.50	13.54	2.8	14	19.0	
	20.5	243	43	0.1	3	45	38.0		6.79		28.04	14.62				49.9
	21.0	249	58	21.7	+ 3	22	37.4	15	10.77	55	42.66	+15.72	3.8	15	8.9	
	21.5	256	16	26.6	2	56	56.6		15.06	55	58.38	16.83				52.4
	22.0	262	37	30.8	2	28	50.1		19.64	56	15.21	17.93	4.8	16	1.3	
	22.5	269	1	52.6	1	58	34.5		24.53		33.14	18.99				54.5
	23.0	275	29	52.1	1	26	28.6		29.70	56	52.13	19.97	5.8	16	55.8	
	23.5	282	1	50.3	+ 0	52	53.4	15	35.14	57	12.10	+20.85				55.6
	24.0	288	38	9.1	+ 0	18	12.3		40.82		32.95	21.55	6.8	17	51.4	
	24.5	295	19	10.1	− 0	17	9.3		46.69	57	54.50	22.04				56.0
	25.0	302	5	13.0	0	52	43.3		52.70	58	16.54	22.22	7.8	18	47.4	
	25.5	308	56	35.0	1	27	59.5	15	58.75	58	38.76	22.05				55.4
	26.0	315	53	28.4	− 2	2	25.3	16	4.76	59	0.81	+21.45	8.8	19	42.8	
	26.5	322	55	59.9	2	35	26.5		10.60		22.26	20.38				54.6
	27.0	330	4	8.1	3	6	27.7		16.16	59	42.64	18.78	9.8	20	37.4	
	27.5	337	17	42.4	3	34	52.6		21.27	60	1.42	16.64				53.8
	28.0	344	36	21.5	4	0	5.7		25.80		18.06	13.93	10.8	21	31.2	
	28.5	351	59	32.7	− 4	21	33.4	16	29.60	60	31.99	+10.71				53.6
	29.0	359	26	31.6		38	45.3		32.52		42.70	7.04	11.8	22	24.8	
	29.5	6	56	23.0		51	16.1		34.44		49.74	+ 2.99				53.9
	30.0	14	28	2.0	4	58	47.0		35.25		52.73	− 1.28	12.8	23	18.7	
	30.5	22	0	16.7	5	1	6.8		34.90		51.45	5.66				
	31.0	29	31	51.0	− 4	58	12.6	16	33.36	60	45.79	− 9.95	13.8	...	...	54.8
	31.5	37	1	28.3		50	10.4		30.65		35.84	−14.03				
11	1.0	44	27	54.7	− 4	37	14.5	16	26.83	60	21.81		14.8	0	13.5	

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″		月齢 d	本初子午線正中時 h	m	
11	1.0	44	27	54.7	− 4	37	14.5	16	26.83	60	21.81	− 17.75	14.8	0	13.5	55.7
	1.5	51	50	3.1	4	19	46.7		21.99	60	4.06	20.96				
	2.0	59	6	54.8	3	58	14.6		16.28	59	43.10	23.61	15.8	1	9.2	
	2.5	66	17	42.9		33	10.4		9.85	59	19.49	25.63				56.5
	3.0	73	21	52.4	3	5	8.8	16	2.86	58	53.86	27.00	16.8	2	5.7	
	3.5	80	19	1.0	− 2	34	45.7	15	55.51	58	26.86	− 27.70				56.5
	4.0	87	8	58.6	2	2	36.5		47.96	57	59.16	27.82	17.8	3	2.2	
	4.5	93	51	46.8	1	29	15.0		40.38		31.34	27.35				55.3
	5.0	100	27	36.5	0	55	13.3		32.93	57	3.99	26.39	18.8	3	57.5	
	5.5	106	56	47.6	− 0	21	0.1		25.74	56	37.60	25.01				53.2
	6.0	113	19	46.4	+ 0	12	58.1	15	18.93	56	12.59	− 23.28	19.8	4	50.7	
	6.5	119	37	5.0	0	46	18.0		12.59	55	49.31	21.24				50.5
	7.0	125	49	18.9	1	18	38.7		6.80		28.07	19.00	20.8	5	41.2	
	7.5	131	57	6.5	1	49	41.9	15	1.62	55	9.07	16.60				47.6
	8.0	138	1	7.5	2	19	11.2	14	57.10	54	52.47	14.11	21.8	6	28.8	
	8.5	144	2	2.3	+ 2	46	52.0	14	53.26	54	38.36	− 11.56				45.0
	9.0	150	0	30.8	3	12	30.8		50.11		26.80	9.01	22.8	7	13.8	
	9.5	155	57	12.0		35	55.6		47.65		17.79	6.50				43.0
	10.0	161	52	43.3	3	56	55.4		45.88		11.29	4.05	23.8	7	56.8	
	10.5	167	47	40.1	4	15	19.5		44.78		7.24	− 1.71				41.8
	11.0	173	42	35.2	+ 4	30	58.5	14	44.31	54	5.53	+ 0.52	24.8	8	38.6	
	11.5	179	37	58.7		43	43.2		44.45		6.05	2.59				41.2
	12.0	185	34	17.7		53	25.4		45.16		8.64	4.52	25.8	9	19.8	
	12.5	191	31	56.0	4	59	58.0		46.39		13.16	6.26				41.6
	13.0	197	31	14.2	5	3	14.4		48.09		19.42	7.82	26.8	10	1.4	
	13.5	203	32	29.3	+ 5	3	9.7	14	50.23	54	27.24	+ 9.20				42.6
	14.0	209	35	55.2	4	59	40.4		52.73		36.44	10.40	27.8	10	44.0	
	14.5	215	41	42.9		52	44.6		55.57		46.84	11.41				44.6
	15.0	221	50	0.2		42	22.5	14	58.67	54	58.25	12.24	28.8	11	28.6	
	15.5	228	0	52.5		28	36.8	15	2.01	55	10.49	12.93				46.9
	16.0	234	14	23.3	+ 4	11	32.4	15	5.53	55	23.42		0.1	12	15.5	
	16.5	240	30	34.2	3	51	17.1		9.20		36.88	+ 13.46				49.7
	17.0	246	49	26.3		28	1.3		12.98	55	50.76	13.88	1.1	13	5.2	
	17.5	253	11	0.0	3	1	58.2		16.85	56	4.95	14.19				52.4
	18.0	259	35	15.8	2	33	23.9		20.77		19.37	14.42	2.1	13	57.6	
	18.5	266	2	14.7	+ 2	2	37.1	15	24.75	56	33.97	14.60				54.4
	19.0	272	31	59.2	1	29	59.0		28.76	56	48.69	+ 14.72	3.1	14	52.0	
	19.5	279	4	32.7	0	55	52.9		32.80	57	3.52	14.83				55.5
	20.0	285	40	0.1	+ 0	20	44.4		36.86		18.41	14.89	4.1	15	47.5	
	20.5	292	18	27.7	− 0	14	59.2		40.93		33.36	14.95				55.5
	21.0	299	0	3.0	− 0	50	49.0	15	45.01	57	48.33	14.97	5.1	16	43.0	
	21.5	305	44	53.9	1	26	15.1		49.08	58	3.27	+ 14.94				54.5
	22.0	312	33	8.7	2	0	46.7		53.12		18.11	14.84	6.1	17	37.5	
	22.5	319	24	54.8	2	33	52.4	15	57.11		32.75	14.64				53.3
	23.0	326	20	17.6	3	5	0.5	16	1.01	58	47.05	14.30	7.1	18	30.8	
	23.5	333	19	19.8	− 3	33	39.8	16	4.76	59	0.83	13.78				52.1
	24.0	340	22	0.2	3	59	20.0		8.31		13.86	+ 13.03	8.1	19	22.9	
	24.5	347	28	12.4	4	21	32.3		11.59		25.88	12.02				51.5
	25.0	354	37	43.8		39	50.2		14.51		36.60	10.72	9.1	20	14.4	
	25.5	1	50	15.1	4	53	50.5		16.99		45.70	9.10				51.6
	26.0	9	5	19.6	− 5	3	14.1	16	18.93	59	52.82	7.12	10.1	21	6.0	
	26.5	16	22	23.3		7	46.7		20.25		57.66	+ 4.84				52.7
	27.0	23	40	45.5		7	20.3		20.86		59.91	+ 2.25	11.1	21	58.7	
	27.5	30	59	39.4	5	1	53.1		20.70		59.32	− 0.59				54.1
	28.0	38	18	14.2	4	51	30.6		19.72		55.71	3.61	12.1	22	52.8	
	28.5	45	35	36.5	− 4	36	24.9	16	17.89	59	49.00	6.71				55.7
	29.0	52	50	52.3	4	16	55.0		15.21		39.17	− 9.83	13.1	23	48.5	
	29.5	60	3	9.9	3	53	25.7		11.71		26.34	12.83				
	30.0	67	11	41.1	3	26	26.8		7.46	59	10.72	15.62	14.1	...	...	56.9
	30.5	74	15	43.9	2	56	31.3	16	2.52	58	52.60	18.12				
												− 20.23	15.1	0	45.4	
12	1.0	81	14	43.3	− 2	24	14.9	15	57.01	58	32.37					

月	日	黄経 °	′	″	黄緯 °	′	″	視半径 ′	″	地平視差 ′	″		月齢 d	本初子午線正中時 h	m	
12	1.0	81	14	43.3	− 2	24	14.9	15	57.01	58	32.37	− 21.89	15.1	0	45.4	56.9
	1.5	88	8	12.4	1	50	13.8		51.05	58	10.48	23.08				
	2.0	94	55	53.2	1	15	3.9		44.76	57	47.40	23.75	16.1	1	42.3	
	2.5	101	37	36.3	0	39	19.3		38.29	57	23.65	23.93				55.6
	3.0	108	13	20.9	− 0	3	32.4		31.77	56	59.72	23.62	17.1	2	37.9	
	3.5	114	43	13.8	+ 0	31	47.9	15	25.33	56	36.10	− 22.86				53.2
	4.0	121	7	28.9	1	6	15.2		19.10	56	13.24	21.70	18.1	3	31.1	
	4.5	127	26	26.3	1	39	26.4		13.19	55	51.54	20.17				50.0
	5.0	133	40	31.1	2	11	1.5		7.70		31.37	18.31	19.1	4	21.1	
	5.5	139	50	12.8	2	40	43.3	15	2.71	55	13.06	16.22				47.0
	6.0	145	56	3.9	+ 3	8	16.7	14	58.29	54	56.84		20.1	5	8.1	
	6.5	151	58	39.5		33	29.0		54.50		42.92	− 13.92				44.2
	7.0	157	58	36.4	3	56	9.2		51.38		31.47	11.45	21.1	5	52.3	
	7.5	163	56	32.2	4	16	7.6		48.96		22.61	8.86				42.4
	8.0	169	53	4.8		33	15.6		47.27		16.38	6.23	22.1	6	34.7	
	8.5	175	48	51.8	+ 4	47	25.8	14	46.29	54	12.80	3.58				41.3
	9.0	181	44	30.2	4	58	31.2		46.04		11.87	− 0.93	23.1	7	16.0	
	9.5	187	40	35.5	5	6	25.6		46.49		13.53	+ 1.66				41.1
	10.0	193	37	41.8		11	3.5		47.62		17.68	4.15	24.1	7	57.1	
	10.5	199	36	20.4		12	20.3		49.39		24.19	6.51				41.9
	11.0	205	37	0.7	+ 5	10	11.9	14	51.77	54	32.90	8.71	25.1	8	39.0	
	11.5	211	40	8.7	5	4	35.6		54.69		43.63	+ 10.73				43.6
	12.0	217	46	7.4	4	55	30.1	14	58.10	54	56.15	12.52	26.1	9	22.6	
	12.5	223	55	16.1		42	55.5	15	1.94	55	10.22	14.07				46.0
	13.0	230	7	50.8		26	54.4		6.12		25.57	15.35	27.1	10	8.6	
	13.5	236	24	2.9	+ 4	7	31.5	15	10.57	55	41.91	16.34				49.0
	14.0	242	44	0.4	3	44	54.3		15.21	55	58.96	+ 17.05	28.1	10	57.6	
	14.5	249	7	47.2	3	19	13.6		19.97	56	16.40	17.44				52.2
	15.0	255	35	23.9	2	50	43.5		24.74		33.94	17.54	29.1	11	49.8	
	15.5	262	6	47.3	2	19	41.6		29.48	56	51.31	17.37				54.9
	16.0	268	41	51.3	+ 1	46	29.0	15	34.09	57	8.24	16.93	0.4	12	44.7	
	16.5	275	20	27.5	1	11	30.3		38.52		24.49	+ 16.25				56.6
	17.0	282	2	25.2	+ 0	35	12.8		42.71		39.87	15.38	1.4	13	41.3	
	17.5	288	47	32.3	− 0	1	52.9		46.62	57	54.22	14.35				56.9
	18.0	295	35	35.7	0	39	14.7		50.22	58	7.43	13.21	2.4	14	38.2	
	18.5	302	26	22.1	− 1	16	18.8	15	53.48	58	19.42	11.99				55.8
	19.0	309	19	37.9	1	52	30.8		56.41		30.16	+ 10.74	3.4	15	34.0	
	19.5	316	15	9.8	2	27	16.3	15	58.99		39.64	9.48				54.0
	20.0	323	12	44.8	3	0	1.6	16	1.24		47.90	8.26	4.4	16	28.0	
	20.5	330	12	10.4		30	14.6		3.17	58	54.97	7.07				52.2
	21.0	337	13	14.3	− 3	57	25.6	16	4.78	59	0.90	5.93	5.4	17	20.2	
	21.5	344	15	44.5	4	21	7.2		6.10		5.74	+ 4.84				50.7
	22.0	351	19	28.6		40	55.5		7.13		9.50	3.76	6.4	18	10.9	
	22.5	358	24	13.4	4	56	30.4		7.87		12.22	2.72				50.2
	23.0	5	29	44.9	5	7	35.9		8.32		13.87	1.65	7.4	19	1.1	
	23.5	12	35	47.7	− 5	14	0.5	16	8.46	59	14.41	+ 0.54				50.4
	24.0	19	42	4.3		15	37.3		8.29		13.78	− 0.63	8.4	19	51.5	
	24.5	26	48	15.8		12	24.6		7.78		11.91	1.87				51.7
	25.0	33	54	1.3	5	4	25.7		6.91		8.70	3.21	9.4	20	43.2	
	25.5	40	58	57.6	4	51	49.3		5.64	59	4.03	4.67				53.3
	26.0	48	2	40.5	− 4	34	49.0	16	3.95	58	57.83	6.20	10.4	21	36.5	
	26.5	55	4	44.3	4	13	43.2	16	1.82		50.01	− 7.82				55.1
	27.0	62	4	43.0	3	48	54.8	15	59.23		40.53	9.48	11.4	22	31.6	
	27.5	69	2	10.7	3	20	50.6		56.19		29.38	11.15				56.1
	28.0	75	56	42.3	2	50	0.2		52.71		16.60	12.78	12.4	23	27.7	
	28.5	82	47	54.4	− 2	16	56.0	15	48.81	58	2.29	14.31				
	29.0	89	35	26.7	1	42	11.1		44.54	57	46.59	− 15.70	13.4	...	...	56.1
	29.5	96	19	1.2	1	6	19.5		39.93		29.69	16.90				
	30.0	102	58	24.1	− 0	29	5.6		35.07	57	11.83	17.86	14.4	0	23.8	
	30.5	109	33	25.6	+ 0	6	31.6		30.02	56	53.31	18.52				54.7
	31.0	116	4	0.6	+ 0	42	28.9	15	24.88	56	34.43	18.88	15.4	1	18.5	
	31.5	122	30	8.6	1	17	29.5		19.73	56	15.53	− 18.90				52.1
12	32.0	128	51	53.7	+ 1	51	8.5	15	14.66	55	56.94	− 18.59	16.4	2	10.6	

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
1	1	19 46 7.43	− 98.89	−20 41 7.7	+ 903.3	0.777512	− 21503	4.30	11.32	+ 0.71	13 4.9
	2	44 28.54	148.65	26 4.4	810.0	756009	19737	42	64	0.93	12 58.9
	3	41 59.89	196.89	12 34.4	707.5	736272	17650	54	11.95	1.17	52.1
	4	38 43.00	241.18	20 0 46.9	600.6	718622	15265	65	12.24	51	44.5
	5	34 41.82	280.02	19 50 46.3	491.5	703357	12618	74	50	1.82	36.3
	6	19 30 1.80	− 310.78	−19 42 34.8	+ 383.9	0.690739	− 9778	4.83	12.73	+ 2.10	12 27.5
	7	24 51.02	332.35	36 10.9	279.8	680961	6803	90	12.92	36	18.2
	8	19 18.67	343.28	31 31.1	180.5	674158	3780	95	13.04	44	12 8.7
	9	13 35.39	343.32	28 30.6	+ 87.3	670378	− 772	97	11	46	11 59.1
	10	7 52.07	333.00	27 3.3	− 0.5	669606	+ 2120	98	13	41	49.6
	11	19 2 19.07	− 313.00	−19 27 3.8	− 82.2	0.671726	+ 4843	4.97	13.10	+ 2.29	11 40.3
	12	18 57 6.07	285.44	28 26.0	158.3	676569	7343	93	13.00	2.07	31.4
	13	52 20.63	251.59	31 4.3	228.5	683912	9590	88	12.86	1.84	23.0
	14	48 9.04	213.84	34 52.8	292.0	693502	11564	82	69	59	15.2
	15	44 35.20	173.58	39 44.8	348.6	705066	13254	74	48	32	8.1
	16	18 41 41.62	− 132.55	−19 45 33.4	− 397.4	0.718320	+ 14677	4.65	12.25	+ 1.14	11 1.6
	17	39 29.07	91.83	52 10.8	438.2	732997	15842	56	12.01	0.98	10 55.8
	18	37 57.24	52.37	19 59 29.0	470.0	748839	16775	46	11.75	85	50.6
	19	37 4.87	− 14.85	20 7 19.0	492.8	765614	17494	36	49	73	46.1
	20	36 50.02	+ 20.49	15 31.8	506.8	783108	18031	26	11.24	63	42.2
	21	18 37 10.51	+ 53.33	−20 23 58.6	− 512.1	0.801139	+ 18404	4.17	10.99	+ 0.54	10 38.8
	22	38 3.84	83.67	32 30.7	509.1	819543	18638	4.07	74	46	36.0
	23	39 27.51	111.46	40 59.8	498.3	838181	18754	3.98	50	40	33.7
	24	41 18.97	136.88	49 18.1	480.2	856935	18768	90	27	35	31.8
	25	43 35.85	159.99	20 57 18.3	455.5	875703	18698	81	10.05	30	30.3
	26	18 46 15.84	+ 181.03	−21 4 53.8	− 424.6	0.894401	+ 18560	3.74	9.84	+ 0.26	10 29.2
	27	49 16.87	200.11	11 58.4	388.3	912961	18367	66	64	23	28.4
	28	52 36.98	217.43	18 26.7	346.8	931328	18124	59	45	20	27.9
	29	18 56 14.41	233.11	24 13.5	300.8	949452	17842	52	27	18	27.7
	30	19 0 7.52	247.35	29 14.3	251.0	967294	17533	45	9.10	16	27.7
	31	19 4 14.87	+ 260.28	−21 33 25.3	− 197.9	0.984827	+ 17203	3.39	8.94	+ 0.14	10 28.0
2	1	8 35.15	272.00	36 43.2	141.4	1.002030	16852	33	79	13	28.5
	2	13 7.15	282.64	39 4.6	81.7	018882	16485	28	64	11	29.2
	3	17 49.79	292.32	40 26.3	− 19.8	035367	16108	23	50	10	30.0
	4	22 42.11	301.12	40 46.1	+ 44.0	051475	15726	18	37	09	31.0
	5	19 27 43.23	+ 309.14	−21 40 2.1	+ 110.1	1.067201	+ 15337	3.13	8.25	+ 0.08	10 32.1
	6	32 52.37	316.48	38 12.0	177.9	082538	14942	09	13	07	33.4
	7	38 8.85	323.16	35 14.1	247.3	097480	14551	04	8.02	06	34.8
	8	43 32.01	329.27	31 6.8	317.8	112031	14163	3.00	7.91	05	36.3
	9	49 1.28	334.82	25 49.0	389.4	126194	13767	2.96	81	04	37.9
	10	19 54 36.10	+ 339.86	−21 19 19.6	+ 461.6	1.139961	+ 13362	2.93	7.72	+ 0.03	10 39.5
	11	20 0 15.96	344.53	11 38.0	536.2	153323	12968	89	63	02	41.3
	12	6 0.49	348.86	21 2 41.8	610.6	166291	12587	86	55	+ 0.01	43.1
	13	11 49.35	352.80	20 52 31.2	686.0	178878	12202	83	47	00	45.0
	14	17 42.15	356.38	41 5.2	761.6	191080	11816	80	39	− 0.02	47.0
	15	20 23 38.53	+ 359.70	−20 28 23.6	+ 838.0	1.202896	+ 11432	2.78	7.32	− 0.03	10 49.0
	16	29 38.23	362.81	20 14 25.6	915.2	214328	11051	75	25	05	51.1
	17	35 41.04	365.65	19 59 10.4	992.5	225379	10671	73	18	07	53.2
	18	41 46.69	368.26	42 37.9	1070.1	236050	10290	70	12	09	55.4
	19	47 54.95	370.70	24 47.8	1148.0	246340	9910	68	06	11	57.6
	20	20 54 5.65	+ 373.01	−19 5 39.8	+ 1226.2	1.256250	+ 9532	2.66	7.00	− 0.13	10 59.9
	21	21 0 18.66	375.16	18 45 13.6	1304.7	265782	9153	64	6.95	15	11 2.2
	22	6 33.82	377.20	23 28.9	1383.4	274935	8770	62	90	18	4.5
	23	12 51.02	379.09	18 0 25.5	1462.0	283705	8386	60	85	20	6.9
	24	19 10.11	380.86	17 36 3.5	1540.6	292091	8001	58	81	23	9.3
	25	21 25 30.97	+ 382.60	−17 10 22.9	+ 1619.4	1.300092	+ 7608	2.57	6.77	− 0.26	11 11.7
	26	31 53.57	384.33	16 43 23.5	1698.3	307700	7209	55	73	29	14.1
	27	38 17.90	385.99	16 15 5.2	1777.2	314909	6804	54	70	33	16.6
	28	44 43.89	387.59	15 45 28.0	1856.1	321713	6393	53	66	36	19.1
	29	51 11.48	+ 389.20	15 14 31.9	+ 1934.8	328106	+ 5971	52	63	40	21.7
3	1	21 57 40.68		−14 42 17.1		1.334077		2.50	6.59	− 0.44	11 24.2

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
3	1	21 57 40.68	+ 390.81	−14 42 17.1	+ 2013.4	1.334077	+ 5537	2.50	6.59	− 0.44	11 24.2
	2	22 4 11.49	392.43	14 8 43.7	2091.9	339614	5091	49	57	48	26.8
	3	10 43.92	394.08	13 33 51.8	2170.0	344705	4629	48	54	53	29.4
	4	17 18.00	395.78	12 57 41.8	2248.1	349334	4149	47	52	58	32.1
	5	23 53.78	397.52	12 20 13.7	2325.8	353483	3650	47	50	63	34.7
	6	22 30 31.30	+ 399.31	−11 41 27.9	+ 2403.1	1.357133	+ 3130	2.46	6.48	− 0.68	11 37.4
	7	37 10.61	401.17	11 1 24.8	2480.0	360263	2587	46	47	74	40.2
	8	43 51.78	403.07	10 20 4.8	2556.0	362850	2016	45	46	80	42.9
	9	50 34.85	405.05	9 37 28.8	2631.1	364866	1412	45	45	86	45.7
	10	22 57 19.90	407.09	8 53 37.7	2705.3	366278	774	44	44	0.93	48.6
	11	23 4 6.99	+ 409.22	− 8 8 32.4	+ 2778.5	1.367052	+ 101	2.44	6.44	− 1.00	11 51.4
	12	10 56.21	411.40	7 22 13.9	2850.2	367153	− 614	44	44	08	54.3
	13	17 47.61	413.62	6 34 43.7	2919.9	366539	1372	44	44	15	11 57.3
	14	24 41.23	415.88	5 46 3.8	2987.5	365167	2173	45	45	23	12 0.2
	15	31 37.11	418.16	4 56 16.3	3052.7	362994	3019	45	46	30	3.3
	16	23 38 35.27	+ 420.42	− 4 5 23.6	+ 3115.1	1.359975	− 3921	2.46	6.47	− 1.38	12 6.3
	17	45 35.69	422.63	3 13 28.5	3173.9	356054	4881	46	49	44	9.4
	18	52 38.32	424.75	2 20 34.6	3228.0	351173	5892	47	51	50	12.5
	19	23 59 43.07	426.70	1 26 46.6	3276.5	345281	6954	48	54	54	15.7
	20	0 6 49.77	428.46	− 0 32 10.1	3319.6	338327	8075	49	57	55	18.9
	21	0 13 58.23	+ 429.93	+ 0 23 9.5	+ 3356.7	1.330252	− 9249	2.51	6.61	− 1.55	12 22.1
	22	21 8.16	431.01	1 19 6.2	3385.6	321003	10470	53	66	54	25.3
	23	28 19.17	431.62	2 15 31.8	3405.5	310533	11731	55	71	51	28.6
	24	35 30.79	431.65	3 12 17.3	3415.7	298802	13024	57	77	48	31.9
	25	42 42.44	430.99	4 9 13.0	3415.1	285778	14340	60	84	45	35.1
	26	0 49 53.43	+ 429.51	+ 5 6 8.1	+ 3402.6	1.271438	− 15663	2.63	6.92	− 1.41	12 38.3
	27	0 57 2.94	427.12	6 2 50.7	3377.5	255775	16977	66	7.01	36	41.5
	28	1 4 10.06	423.67	6 59 8.2	3338.9	238798	18264	70	11	30	44.7
	29	11 13.73	419.07	7 54 47.1	3286.3	220534	19504	74	21	24	47.8
	30	18 12.80	413.24	8 49 33.4	3219.7	201030	20682	78	33	17	50.8
	31	1 25 6.04	+ 406.13	+ 9 43 13.1	+ 3139.3	1.180348	− 21781	2.83	7.46	− 1.10	12 53.7
4	1	31 52.17	397.65	10 35 32.4	3045.0	158567	22772	88	60	1.02	56.4
	2	38 29.82	387.79	11 26 17.4	2937.6	135795	23644	2.94	7.91	0.93	12 59.0
	3	44 57.61	376.57	12 15 15.0	2818.0	112151	24389	3.00	8.09	83	13 1.4
	4	51 14.18	364.00	13 2 13.0	2687.4	087762	24999	07	73	3.7	
	5	1 57 18.18	+ 350.13	+13 47 0.4	+ 2547.1	1.062763	− 25462	3.14	8.28	− 0.62	13 5.7
	6	2 3 8.31	335.02	14 29 27.5	2398.1	037301	25775	22	49	50	7.4
	7	8 43.33	318.74	15 9 25.6	2241.9	1.011526	25946	30	70	38	8.9
	8	14 2.07	301.34	15 46 47.5	2079.3	0.985580	25974	39	8.93	26	10.1
	9	19 3.41	282.94	16 21 26.8	1911.6	959606	25872	48	9.17	13	11.0
	10	2 23 46.35	+ 263.61	+16 53 18.4	+ 1739.9	0.933734	− 25644	3.58	9.43	− 0.01	13 11.6
	11	28 9.96	243.46	17 22 18.3	1564.9	908090	25297	68	69	+ 0.12	11.9
	12	32 13.42	222.56	17 48 23.2	1387.4	882793	24839	78	9.97	25	11.8
	13	35 55.98	200.99	18 11 30.6	1207.7	857954	24282	3.89	10.26	38	11.4
	14	39 16.97	178.85	31 38.3	1026.5	833672	23635	4.00	56	51	10.6
	15	2 42 15.82	+ 156.27	+18 48 44.8	+ 844.1	0.810037	− 22904	4.12	10.86	+ 0.65	13 9.4
	16	44 52.09	133.37	19 2 48.9	660.7	787133	22097	24	11.18	78	7.9
	17	47 5.46	110.27	13 49.6	476.9	765036	21224	36	51	0.92	6.0
	18	48 55.73	87.09	21 46.5	293.3	743812	20291	49	11.83	1.06	3.7
	19	50 22.82	64.03	26 39.8	+ 109.8	723521	19300	61	12.17	20	13 1.0
	20	2 51 26.85	+ 41.25	+19 28 29.6	− 72.6	0.704221	− 18255	4.74	12.50	+ 1.35	12 57.9
	21	52 8.10	+ 18.93	27 17.0	253.2	685966	17162	4.87	12.84	50	54.4
	22	52 27.03	− 2.71	23 3.8	431.0	668804	16025	5.00	13.17	65	50.6
	23	52 24.32	23.37	15 52.8	604.4	652779	14853	12	49	80	46.5
	24	52 0.95	42.84	19 5 48.4	771.9	637926	13648	24	13.80	1.96	42.0
	25	2 51 18.11	− 60.88	+18 52 56.5	− 931.7	0.624278	− 12411	5.35	14.10	+ 2.13	12 37.2
	26	50 17.23	77.27	37 24.8	1082.2	611867	11149	46	38	30	32.1
	27	48 59.96	91.71	18 19 22.6	1220.8	600718	9867	56	65	47	26.8
	28	47 28.25	104.00	17 59 1.8	1345.9	590851	8571	65	14.89	65	21.2
	29	45 44.25	113.99	36 35.9	1454.4	582280	7268	73	15.11	2.89	15.5
	30	2 43 50.26	− 121.55	+17 12 21.5	− 1544.8	0.575012	− 5964	5.81	15.30	+ 3.09	12 9.6
5	1	2 41 48.71		+16 46 36.7		0.569048		5.87	15.46	+ 3.26	12 3.6

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
5 1	2 41 48.71	− 126.58	+16 46 36.7	−1615.2	0.569048	− 4664	5.87	15.46	+ 3.26	12 3.6
2	39 42.13	129.04	16 19 41.5	1664.8	564384	3375	92	59	40	11 57.5
3	37 33.09	128.96	15 51 56.7	1691.8	561009	2104	95	68	36	51.5
4	35 24.13	126.40	15 23 44.9	1696.2	558905	− 857	97	74	27	45.4
5	33 17.73	121.54	14 55 28.7	1678.5	558048	+ 359	98	77	3.15	39.4
6	2 31 16.19	− 114.52	+14 27 30.2	−1639.1	0.558407	+ 1541	5.98	15.76	+ 2.98	11 33.6
7	29 21.67	105.58	14 0 11.1	1579.6	559948	2682	96	71	83	27.8
8	27 36.09	94.90	13 33 51.5	1501.5	562630	3781	94	64	68	22.2
9	26 1.19	82.74	13 8 50.0	1407.0	566411	4832	90	54	52	16.8
10	24 38.45	69.33	12 45 23.0	1298.0	571243	5836	85	41	37	11.6
11	2 23 29.12	− 54.95	+12 23 45.0	−1177.3	0.577079	+ 6792	5.79	15.25	+ 2.24	11 6.6
12	22 34.17	39.82	12 4 7.7	1046.9	583871	7699	73	15.07	12	11 1.9
13	21 54.35	24.14	11 46 40.8	909.4	591570	8557	65	14.88	2.01	10 57.4
14	21 30.21	− 8.07	31 31.4	766.6	600127	9368	57	66	1.90	53.2
15	21 22.14	+ 8.19	18 44.8	620.9	609495	10133	48	44	80	49.3
16	2 21 30.33	+ 24.52	+11 8 23.9	− 473.7	0.619628	+ 10853	5.39	14.20	+ 1.70	10 45.6
17	21 54.85	40.79	11 0 30.2	326.8	630481	11531	30	13.96	61	42.2
18	22 35.64	56.92	10 55 3.4	181.2	642012	12171	20	71	52	39.1
19	23 32.56	72.81	52 2.2	− 38.4	654183	12773	10	45	44	36.2
20	24 45.37	88.43	51 23.8	+ 101.0	666956	13341	5.01	13.20	37	33.6
21	2 26 13.80	+ 103.79	+10 53 4.8	+ 236.4	0.680297	+ 13878	4.91	12.94	+ 1.30	10 31.2
22	27 57.59	118.85	10 57 1.2	367.4	694175	14386	81	68	23	29.1
23	29 56.44	133.55	11 3 8.6	493.2	708561	14865	71	42	16	27.3
24	32 9.99	147.91	11 21.8	613.4	723426	15319	62	12.16	10	25.7
25	34 37.90	161.97	21 35.2	728.2	738745	15748	52	11.91	1.03	24.3
26	2 37 19.87	+ 175.77	+11 33 43.4	+ 837.2	0.754493	+ 16157	4.43	11.66	+ 0.97	10 23.1
27	40 15.64	189.29	11 47 40.6	940.7	770650	16544	34	42	91	22.2
28	43 24.93	202.58	12 3 21.3	1038.4	787194	16913	25	11.18	85	21.5
29	46 47.51	215.66	20 39.7	1130.0	804107	17260	16	10.94	79	21.1
30	50 23.17	228.57	39 29.7	1215.7	821367	17585	4.07	71	73	20.8
31	2 54 11.74	+ 241.35	+12 59 45.4	+1295.6	0.838952	+ 17891	3.99	10.49	+ 0.67	10 20.8
6 1	2 58 13.09	254.04	13 21 21.0	1369.7	856843	18180	90	27	61	20.9
2	3 2 27.13	266.66	13 44 10.7	1437.9	875023	18447	82	10.06	54	21.3
3	6 53.79	279.26	14 8 8.6	1500.2	893470	18691	74	9.85	48	21.9
4	11 33.05	291.86	33 8.8	1556.4	912161	18910	67	65	41	22.7
5	3 16 24.91	+ 304.52	+14 59 5.2	+1606.6	0.931071	+ 19104	3.59	9.45	+ 0.34	10 23.7
6	21 29.43	317.25	15 25 51.8	1650.4	950175	19270	52	26	27	25.0
7	26 46.68	330.06	15 53 22.2	1687.5	969445	19405	45	9.08	20	26.4
8	32 16.74	343.02	16 21 29.7	1718.2	0.988850	19502	38	8.90	13	28.1
9	37 59.76	356.13	16 50 7.9	1742.0	1.008352	19557	32	73	+ 0.05	29.9
10	3 43 55.89	+ 369.40	+17 19 9.9	+1758.4	1.027909	+ 19569	3.25	8.56	− 0.03	10 32.0
11	50 5.29	382.84	17 48 28.3	1767.0	047478	19535	19	40	11	34.3
12	3 56 28.13	396.44	18 17 55.3	1767.5	067013	19443	13	25	20	36.9
13	4 3 4.57	410.17	18 47 22.8	1759.7	086456	19288	07	8.10	28	39.6
14	9 54.74	424.01	19 16 42.5	1742.5	105744	19063	3.02	7.96	38	42.7
15	4 16 58.75	+ 437.93	+19 45 45.0	+1715.7	1.124807	+ 18764	2.97	7.82	− 0.47	10 45.9
16	24 16.68	451.86	20 14 20.7	1678.6	143571	18380	92	69	57	49.4
17	31 48.54	465.70	20 42 19.3	1630.6	161951	17906	87	57	66	53.1
18	39 34.24	479.38	21 9 29.9	1571.6	179857	17338	83	46	76	10 57.0
19	47 33.62	492.78	21 35 41.5	1501.2	197195	16671	79	35	86	11 1.2
20	4 55 46.40	+ 505.73	+22 0 42.7	+1418.5	1.213866	+ 15901	2.75	7.25	− 0.96	11 5.5
21	5 4 12.13	518.11	24 21.2	1323.6	229767	15028	71	15	1.06	10.1
22	12 50.24	529.71	22 46 24.8	1216.6	244795	14049	68	7.07	16	14.9
23	21 39.95	540.36	23 6 41.4	1097.9	258844	12967	65	6.99	26	19.9
24	30 40.31	549.88	24 59.3	968.2	271811	11793	62	92	35	25.1
25	5 39 50.19	+ 558.13	+23 41 7.5	+ 828.2	1.283604	+ 10536	2.60	6.85	− 1.44	11 30.4
26	49 8.32	564.91	23 54 55.7	679.1	294140	9210	58	80	53	35.8
27	5 58 33.23	570.13	24 6 14.8	522.4	303350	7828	56	75	61	41.4
28	6 8 3.36	573.68	14 57.2	360.0	311178	6411	55	71	70	47.0
29	17 37.04	575.53	20 57.2	193.3	317539	4976	53	68	77	52.6
30	6 27 12.57	+575.68	+24 24 10.5	+ 24.6	1.322565	+ 3540	2.53	6.66	− 1.81	11 58.3
7 1	6 36 48.25		+24 24 35.1		1.326105		2.52	6.64	− 1.84	12 4.0

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
7 1	6 36 48.25	+ 574.14	+24 24 35.1	− 144.4	1.326105	+ 2121	2.52	6.64	− 1.84	12 4.0
2	46 22.39	571.04	22 10.7	311.8	328226	+ 740	52	63	80	9.6
3	6 55 53.43	566.46	16 58.9	476.1	328966	− 590	52	62	74	15.1
4	7 5 19.89	560.54	24 9 2.8	635.6	328376	1859	52	62	66	20.6
5	14 40.43	553.43	23 58 27.2	789.2	326517	3056	52	63	56	26.0
6	7 23 53.86	+ 545.34	+23 45 18.0	− 935.9	1.323461	− 4178	2.53	6.65	− 1.47	12 31.2
7	32 59.20	536.41	29 42.1	1074.7	319283	5223	53	67	38	36.3
8	41 55.61	526.78	23 11 47.4	1205.5	314060	6186	54	70	28	41.2
9	50 42.39	516.59	22 51 41.9	1328.0	307874	7066	55	73	18	46.0
10	7 59 18.98	506.01	29 33.9	1442.0	300808	7872	57	77	1.09	50.6
11	8 7 44.99	+ 495.14	+22 5 31.9	− 1547.4	1.292936	− 8599	2.58	6.81	− 0.99	12 55.0
12	16 0.13	484.08	21 39 44.5	1644.3	284337	9258	60	85	90	12 59.2
13	24 4.21	472.94	21 12 20.2	1733.1	275079	9849	62	90	81	13 3.2
14	31 57.15	461.77	20 43 27.1	1813.9	265230	10382	64	6.96	73	7.1
15	39 38.92	450.63	20 13 13.2	1887.1	254848	10859	66	7.01	65	10.7
16	8 47 9.55	+ 439.58	+19 41 46.1	− 1953.2	1.243989	− 11287	2.69	7.08	− 0.57	13 14.2
17	8 54 29.13	428.65	19 9 12.9	2012.2	232702	11668	71	14	50	17.5
18	9 1 37.78	417.88	18 35 40.7	2064.8	221034	12007	74	21	43	20.6
19	8 35.66	407.27	18 1 15.9	2111.0	209027	12309	76	28	36	23.5
20	15 22.93	396.83	17 26 4.9	2151.3	196718	12578	79	35	29	26.3
21	9 21 59.76	+ 386.57	+16 50 13.6	− 2185.9	1.184140	− 12820	2.82	7.43	− 0.23	13 28.9
22	28 26.33	376.46	16 13 47.7	2215.1	171320	13036	85	51	17	31.3
23	34 42.79	366.51	15 36 52.6	2239.3	158284	13228	88	60	11	33.5
24	40 49.30	356.76	14 59 33.3	2258.6	145056	13401	92	69	06	35.6
25	46 46.06	347.20	14 21 54.7	2273.4	131655	13555	95	78	− 0.01	37.5
26	9 52 33.26	+ 337.72	+13 44 1.3	− 2283.4	1.118100	− 13693	2.99	7.87	+ 0.04	13 39.3
27	9 58 10.98	328.32	13 5 57.9	2288.9	104407	13818	3.02	7.97	08	40.9
28	10 3 39.30	319.05	12 27 49.0	2290.2	090589	13930	06	8.07	13	42.3
29	8 58.35	309.87	11 49 38.8	2287.7	076659	14032	10	17	17	43.6
30	14 8.22	300.74	11 11 31.1	2280.9	062627	14123	14	28	21	44.7
31	10 19 8.96	+ 291.65	+10 33 30.2	− 2270.1	1.048504	− 14204	3.18	8.39	+ 0.25	13 45.7
8 1	24 0.61	282.52	9 55 40.1	2255.2	034300	14279	23	51	28	46.6
2	28 43.13	273.35	9 18 4.9	2236.2	020021	14346	27	63	32	47.2
3	33 16.48	264.12	8 40 48.7	2213.3	1.005675	14405	32	75	35	47.8
4	37 40.60	254.80	8 3 55.4	2186.2	0.991270	14453	37	8.88	39	48.1
5	10 41 55.40	+ 245.36	+ 7 27 29.2	− 2154.8	0.976817	− 14496	3.42	9.01	+ 0.42	13 48.3
6	46 0.76	235.75	6 51 34.4	2119.2	962321	14532	47	14	45	48.4
7	49 56.51	225.94	6 16 15.2	2079.1	947789	14558	52	28	48	48.3
8	53 42.45	215.88	5 41 36.1	2034.4	933231	14572	58	43	51	48.0
9	10 57 18.33	205.53	5 7 41.7	1984.6	918659	14579	63	58	54	47.6
10	11 0 43.86	+ 194.83	+ 4 34 37.1	− 1929.6	0.904080	− 14574	3.69	9.73	+ 0.57	13 46.9
11	3 58.69	183.76	4 2 27.5	1869.2	889506	14558	75	9.89	60	46.2
12	7 2.45	172.27	3 31 18.3	1803.2	874948	14527	82	10.06	63	45.2
13	9 54.72	160.29	3 1 15.1	1730.7	860421	14476	88	23	66	44.0
14	12 35.01	147.75	2 32 24.4	1651.4	845945	14404	3.95	40	69	42.6
15	11 15 2.76	+ 134.65	+ 2 4 53.0	− 1565.2	0.831541	− 14313	4.02	10.58	+ 0.72	13 41.0
16	17 17.41	120.95	1 38 47.8	1471.5	817228	14198	09	77	76	39.2
17	19 18.36	106.57	1 14 16.3	1369.6	803030	14052	16	10.96	80	37.1
18	21 4.93	91.46	0 51 26.7	1258.9	788978	13870	23	11.15	84	34.8
19	22 36.39	75.60	30 27.8	1139.0	775108	13648	31	35	88	32.2
20	11 23 51.99	+ 59.00	+ 0 11 28.8	− 1009.3	0.761460	− 13383	4.38	11.55	+ 0.93	13 29.4
21	24 50.99	41.64	− 0 5 20.5	869.4	748077	13069	46	76	0.98	26.3
22	25 32.63	23.54	19 49.9	718.8	735008	12699	54	11.97	1.04	22.9
23	25 56.17	+ 4.72	31 48.7	557.1	722309	12265	62	12.18	10	19.2
24	26 0.89	− 14.73	41 5.8	384.4	710044	11757	70	40	17	15.1
25	11 25 46.16	− 34.67	− 0 47 30.2	− 201.0	0.698287	− 11171	4.78	12.60	+ 1.25	13 10.8
26	25 11.49	54.93	50 51.2	− 7.4	687116	10499	86	12.81	33	6.1
27	24 16.56	75.35	50 58.6	+ 195.8	676617	9729	4.94	13.01	42	13 1.1
28	23 1.21	95.66	47 42.8	406.9	666888	8856	5.01	19	52	12 55.7
29	21 25.55	115.43	40 55.9	623.5	658032	7869	08	37	64	50.0
30	11 19 30.12	− 134.31	− 0 30 32.4	+ 842.6	0.650163	− 6766	5.14	13.53	+ 1.76	12 44.0
31	17 15.81	− 151.79	− 0 16 29.8	+ 1060.5	643397	− 5539	19	67	1.91	37.7
9 1	11 14 44.02		+ 0 1 10.7		0.637853		5.24	13.79	+ 2.06	12 31.1

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″				″	″		h m
9	1	11 14 44.02	− 167.45	+ 0 1 10.7	+1273.2	0.637858	− 4188	5.24	13.79	+ 2.06	12	31.1
	2	11 56.57	180.61	22 23.9	1474.6	633670	2710	27	88	22		24.3
	3	8 55.96	190.85	0 46 58.5	1660.2	630960	− 1108	29	95	38		17.3
	4	5 45.11	197.51	1 14 38.7	1823.0	629852	+ 610	30	97	58		10.1
	5	11 2 27.60	200.26	1 45 1.7	1958.3	630462	2434	29	96	74	12	2.9
	6	10 59 7.34	− 198.60	+ 2 17 40.0	+2060.0	0.632896	+ 4351	5.27	13.90	+ 2.86	11	55.7
	7	55 48.74	192.38	2 52 0.0	2124.6	637247	6346	24	81	93		48.5
	8	52 36.36	181.47	3 27 24.6	2148.7	643593	8388	19	67	82		41.5
	9	49 34.89	165.95	4 3 13.3	2130.9	651981	10455	12	49	67		34.7
	10	46 48.94	146.11	4 38 44.2	2071.5	662436	12521	5.04	28	47		28.2
	11	10 44 22.83	− 122.24	+ 5 13 15.7	+1971.4	0.674957	+ 14563	4.95	13.04	+ 2.22	11	22.0
	12	42 20.59	94.95	5 46 7.1	1834.6	689520	16550	84	12.76	1.98		16.3
	13	40 45.64	64.74	6 16 41.7	1663.9	706070	18458	73	47	75		11.0
	14	39 40.90	− 32.40	6 44 25.6	1464.8	724528	20254	61	12.15	50		6.2
	15	39 8.50	+ 1.48	7 8 50.4	1241.6	744782	21917	48	11.82	26	11	2.0
	16	10 39 9.98	+ 36.13	+ 7 29 32.0	+1000.2	0.766699	+ 23423	4.35	11.48	+ 1.04	10	58.4
	17	39 46.11	70.95	46 12.2	744.9	790122	24757	22	11.15	0.83		55.3
	18	40 57.06	105.27	7 58 37.1	481.1	814879	25893	4.10	10.81	64		52.8
	19	42 42.33	138.60	8 6 38.2	+ 213.0	840772	26823	3.97	47	45		50.9
	20	45 0.93	170.43	10 11.2	− 55.2	867595	27535	85	10.15	28		49.5
	21	10 47 51.36	+ 200.39	+ 8 9 16.0	− 319.8	0.895130	+ 28026	3.73	9.84	+ 0.11	10	48.6
	22	51 11.75	228.18	8 3 56.2	577.1	923156	28298	62	54	− 0.04		48.2
	23	54 59.93	253.57	7 54 19.1	824.5	951454	28354	51	9.25	18		48.3
	24	10 59 13.50	276.43	40 34.6	1059.5	0.979808	28202	41	8.98	31		48.7
	25	11 3 49.93	296.66	22 55.1	1280.0	1.008010	27854	31	73	43		49.5
	26	11 8 46.59	+ 314.37	+ 7 1 35.1	−1484.5	1.035864	+ 27338	3.22	8.50	− 0.53	10	50.7
	27	14 0.96	329.59	6 36 50.6	1672.1	063202	26669	14	28	63		52.1
	28	19 30.55	342.46	6 8 58.5	1842.1	089871	25866	07	8.08	71		53.7
	29	25 13.01	353.10	5 33 16.4	1994.1	115737	24949	3.00	7.89	78		55.6
	30	31 6.11	361.78	5 5 2.3	2128.8	140686	23952	2.93	72	84		57.6
10	1	11 37 7.89	+ 368.68	+ 4 29 33.5	−2246.7	1.164638	+ 22891	2.87	7.56	− 0.89	10	59.7
	2	43 16.57	374.02	3 52 6.8	2348.3	187529	21787	81	41	93	11	2.0
	3	49 30.59	378.01	3 12 58.5	2434.4	209316	20653	76	28	0.97		4.3
	4	11 55 48.60	380.84	2 32 24.1	2506.7	229969	19510	71	15	1.00		6.7
	5	12 2 9.44	382.71	1 50 37.4	2566.0	249479	18370	67	7.04	03		9.1
	6	12 8 32.15	+ 383.78	+ 1 7 51.4	−2613.4	1.267849	+ 17237	2.63	6.94	− 1.05	11	11.6
	7	14 55.93	384.23	+ 0 24 18.0	2649.9	285086	16118	60	85	06		14.0
	8	21 20.16	384.15	− 0 19 51.9	2676.8	301204	15030	57	77	07		16.5
	9	27 44.31	383.68	1 4 28.7	2695.2	316234	13975	54	69	07		19.0
	10	34 7.99	382.91	1 49 23.9	2705.8	330209	12949	51	62	07		21.4
	11	12 40 30.90	+ 381.93	− 2 34 29.7	−2709.5	1.343158	+ 11953	2.49	6.55	− 1.08	11	23.8
	12	46 52.83	380.80	3 19 39.2	2707.1	355111	10994	46	49	08		26.3
	13	53 13.63	379.58	4 4 46.3	2699.4	366105	10073	44	44	08		28.7
	14	12 59 33.21	378.33	4 49 45.7	2686.7	376178	9183	42	39	08		31.0
	15	13 5 51.54	377.09	5 34 32.4	2669.8	385361	8324	41	35	08		33.4
	16	13 12 8.63	+ 375.88	− 6 19 2.2	−2649.1	1.393685	+ 7499	2.39	6.31	− 1.07	11	35.7
	17	18 24.51	374.70	7 3 11.3	2625.0	401184	6709	38	28	07		38.1
	18	24 39.21	373.63	7 46 56.3	2598.0	407893	5943	37	25	07		40.3
	19	30 52.84	372.66	8 30 14.3	2568.2	413836	5202	36	22	06		42.6
	20	37 5.50	371.77	9 13 2.5	2536.0	419038	4487	36	20	05		44.9
	21	13 43 17.27	+ 370.99	− 9 55 18.5	−2501.3	1.423525	+ 3795	2.35	6.18	− 1.04	11	47.1
	22	49 28.26	370.34	10 36 59.8	2464.8	427320	3124	34	16	1.00		49.4
	23	13 55 38.60	369.82	11 18 4.6	2426.4	430444	2473	34	15	0.96		51.6
	24	14 1 48.42	369.41	11 58 31.0	2386.2	432917	1842	33	14	92		53.8
	25	7 57.83	369.10	12 38 17.2	2344.3	434759	1230	33	13	87		56.0
	26	14 14 6.93	+ 368.93	−13 17 21.5	−2300.9	1.435989	+ 628	2.33	6.13	− 0.83	11	58.3
	27	20 15.86	368.90	13 55 42.4	2256.2	436617	+ 34	33	12	78	12	0.5
	28	26 24.76	368.98	14 33 18.6	2210.0	436651	− 547	33	13	74		2.7
	29	32 33.74	369.18	15 10 8.6	2162.6	436104	1115	33	13	70		4.9
	30	38 42.92	369.47	15 46 11.2	2113.8	434989	1673	33	14	67		7.1
	31	14 44 52.39	+ 369.83	−16 21 25.0	−2063.6	1.433316	− 2222	2.33	6.14	− 0.64	12	9.3
11	1	14 51 2.22		−16 55 48.6		1.431094		2.34	6.15	− 0.61	12	11.6

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		h m s	s	° ′ ″	″				″	″		h m
11	1	14 51 2.22	+ 370.31	−16 55 48.6	−2012.3	1.431094	− 2769	2.34	6.15	− 0.61	12	11.6
	2	14 57 12.53	370.88	17 29 20.9	1959.7	428325	3318	34	16	58		13.8
	3	15 3 23.41	371.53	18 2 0.6	1905.9	425007	3857	35	17	55		16.0
	4	9 34.94	372.22	18 33 46.5	1850.8	421150	4390	35	19	53		18.3
	5	15 47.16	372.98	19 4 37.3	1794.4	416760	4925	36	21	50		20.6
	6	15 22 0.14	+ 373.77	−19 34 31.7	−1736.8	1.411835	− 5462	2.37	6.23	− 0.48	12	22.9
	7	28 13.91	374.58	20 3 28.5	1677.9	406373	6002	38	26	46		25.2
	8	34 28.49	375.38	31 26.4	1617.7	400371	6544	39	28	44		27.5
	9	40 43.87	376.19	20 58 24.1	1556.0	393827	7087	40	32	43		29.8
	10	47 0.06	377.00	21 24 20.1	1492.9	386740	7628	41	35	41		32.1
	11	15 53 17.06	+ 377.74	−21 49 13.0	−1428.6	1.379112	− 8180	2.42	6.38	− 0.40	12	34.5
	12	15 59 34.80	378.41	22 13 1.6	1363.0	370932	8742	44	42	39		36.8
	13	16 5 53.21	378.98	35 44.6	1295.9	362190	9305	45	46	38		39.2
	14	12 12.19	379.45	22 57 20.5	1227.1	352885	9871	47	50	37		41.6
	15	18 31.64	379.78	23 17 47.6	1157.1	343014	10447	49	55	36		44.0
	16	16 24 51.42	+ 379.92	−23 37 4.7	−1085.7	1.332567	− 11035	2.51	6.60	− 0.35	12	46.4
	17	31 11.34	379.85	23 55 10.4	1012.6	321532	11632	53	66	35		48.8
	18	37 31.19	379.50	24 12 3.0	938.1	309900	12236	55	72	34		51.2
	19	43 50.69	378.88	27 41.1	862.1	297664	12851	58	78	34		53.5
	20	50 9.57	377.92	42 3.2	785.0	284813	13475	60	85	33		55.9
	21	16 56 27.49	+ 376.56	−24 55 8.2	− 706.3	1.271338	− 14107	2.63	6.92	− 0.33	12	58.3
	22	17 2 44.05	374.74	25 6 54.5	626.3	257231	14748	66	7.00	33	13	0.6
	23	8 58.79	372.40	17 20.8	545.0	242483	15400	69	08	33		2.9
	24	15 11.19	369.46	26 25.8	462.7	227083	16060	73	17	33		5.1
	25	21 20.65	365.83	34 8.5	379.2	211023	16727	76	27	32		7.3
	26	17 27 26.48	+ 361.39	−25 40 27.7	− 294.8	1.194296	− 17401	2.80	7.37	− 0.32	13	9.4
	27	33 27.87	356.08	45 22.5	209.9	176895	18078	84	48	32		11.4
	28	39 23.95	349.77	48 52.4	124.5	158817	18757	88	59	31		13.4
	29	45 13.72	342.30	50 56.9	− 38.8	140060	19433	93	72	31		15.2
	30	50 56.02	333.54	51 35.7	+ 46.8	120627	20101	2.98	85	30		16.9
12	1	17 56 29.56	+ 323.30	−25 50 48.9	+ 131.9	1.100526	− 20757	3.03	7.99	− 0.29	13	18.4
	2	18 1 52.86	311.38	48 37.0	216.1	079769	21393	09	8.15	27		19.7
	3	7 4.24	297.57	45 0.9	298.9	058376	22001	15	31	25		20.9
	4	12 1.81	281.68	40 2.0	380.1	036375	22567	22	49	23		21.7
	5	16 43.49	263.38	33 41.9	458.7	1.013808	23085	29	68	20		22.3
	6	18 21 6.87	+ 242.47	−25 26 3.2	+ 534.2	0.990723	− 23537	3.37	8.89	− 0.17	13	22.6
	7	25 9.34	218.62	17 9.0	606.2	967186	23901	45	9.10	13		22.4
	8	28 47.96	191.62	25 7 2.8	674.1	943285	24154	54	33	08		21.9
	9	31 59.58	161.18	24 55 48.7	736.8	919131	24277	64	58	− 0.02		20.9
	10	34 40.76	127.21	43 31.9	793.9	894854	24245	74	9.84	+ 0.06		19.3
	11	18 36 47.97	+ 89.46	−24 30 18.0	+ 845.2	0.870609	− 24021	3.84	10.11	+ 0.15	13	17.1
	12	38 17.43	48.13	16 12.8	890.2	846588	23576	3.95	39	26		14.3
	13	39 5.56	+ 3.35	24 1 22.6	929.0	823012	22876	4.07	10.70	38		10.8
	14	39 8.91	− 44.25	23 45 53.6	961.4	800136	21898	18	11.01	53		6.4
	15	38 24.66	93.85	29 52.2	988.0	778238	20603	30	31	70	13	1.3
	16	18 36 50.81	− 144.27	−23 13 24.2	+1008.5	0.757635	− 18982	4.41	11.62	+ 0.90	12	55.4
	17	34 26.54	193.59	22 56 35.7	1023.2	738653	17022	53	11.92	1.17		48.6
	18	31 12.95	240.21	39 32.5	1030.9	721631	14736	63	12.20	43		41.1
	19	27 12.74	281.29	22 21.6	1030.4	706895	12148	73	45	70		32.8
	20	22 31.45	315.23	22 5 11.2	1019.8	694747	9298	81	67	1.97		24.0
	21	18 17 16.22	− 339.27	−21 48 11.4	+ 994.9	0.685449	− 6267	4.87	12.83	+ 2.24	12	14.6
	22	11 36.95	352.47	31 36.5	954.2	679182	− 3116	91	12.94	45	12	5.0
	23	18 5 44.48	353.89	15 42.3	893.8	676066	+ 43	94	13.01	58	11	55.2
	24	17 59 50.59	343.62	21 0 48.5	813.2	676109	3145	94	13.02	64		45.5
	25	54 6.97	323.06	20 47 15.3	713.2	679254	6087	91	12.95	42		36.1
	26	17 48 43.91	− 293.30	−20 35 22.1	+ 595.4	0.685341	+ 8816	4.87	12.84	+ 2.15	11	27.1
	27	43 50.61	257.10	25 26.7	465.9	694157	11272	81	68	1.84		18.6
	28	39 33.51	216.03	17 40.8	328.0	705429	13425	73	48	48		10.7
	29	35 57.48	172.58	12 12.8	188.9	718854	15269	64	12.25	26	11	3.5
	30	33 4.90	128.23	9 3.9	+ 52.6	734123	16799	55	11.99	1.06	10	57.1
	31	17 30 56.67	− 84.49	−20 8 11.3	− 75.6	0.750922	+ 18039	4.45	11.73	+ 0.88	10	51.4
12	32	17 29 32.18		−20 9 26.9		0.768961		4.34	11.44	+ 0.73	10	46.3

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		h m s	s	° ′ ″	″			″	″		h m
1	1	15 42 44.49	+289.04	−17 15 12.5	−1020.3	1.017608	+6927	8.27	8.65	−3.68	9 4.9
	2	47 33.53	290.31	32 12.8	997.0	024535	6905	21	59	67	5.8
	3	52 23.84	291.57	17 48 49.8	973.1	031440	6883	16	53	67	6.7
	4	15 57 15.41	292.83	18 5 2.9	948.2	038323	6861	10	48	66	7.7
	5	16 2 8.24	294.08	20 51.1	922.8	045184	6840	05	42	65	8.6
	6	16 7 2.32	+295.30	−18 36 13.9	−896.5	1.052024	+6817	8.00	8.36	−3.65	9 9.6
	7	11 57.62	296.53	18 51 10.4	869.5	058841	6795	7.94	31	64	10.6
	8	16 54.15	297.73	19 5 39.9	841.9	065636	6772	89	25	63	11.6
	9	21 51.88	298.92	19 41.8	813.5	072408	6750	84	20	63	12.6
	10	26 50.80	300.06	33 15.3	784.4	079158	6726	79	15	62	13.6
	11	16 31 50.86	+301.22	−19 46 19.7	−754.7	1.085884	+6702	7.74	8.10	−3.61	9 14.7
	12	36 52.08	302.33	19 58 54.4	724.3	092586	6679	70	06	61	15.8
	13	41 54.41	303.41	20 10 58.7	693.3	099265	6655	65	8.01	60	16.9
	14	46 57.82	304.46	22 32.0	661.6	105920	6630	60	7.96	60	18.0
	15	52 2.28	305.49	33 33.6	629.5	112550	6604	56	91	59	19.2
	16	16 57 7.77	+306.48	−20 44 3.1	−596.5	1.119154	+6579	7.51	7.87	−3.58	9 20.3
	17	17 2 14.25	307.42	20 53 59.6	563.1	125733	6553	47	82	58	21.5
	18	7 21.67	308.33	21 3 22.7	529.2	132286	6527	43	77	57	22.7
	19	12 30.00	309.19	12 11.9	494.8	138813	6499	38	73	57	23.9
	20	17 39.19	310.02	20 26.7	459.8	145312	6473	34	68	56	25.1
	21	17 22 49.21	+310.80	−21 28 6.5	−424.4	1.151785	+6445	7.30	7.64	−3.55	9 26.3
	22	28 0.01	311.51	35 10.9	388.5	158230	6418	26	60	55	27.6
	23	33 11.52	312.19	41 39.4	352.2	164648	6389	22	55	54	28.8
	24	38 23.71	312.81	47 31.6	315.5	171037	6362	18	51	54	30.1
	25	43 36.52	313.38	52 47.1	278.4	177399	6333	14	47	53	31.4
	26	17 48 49.90	+313.89	−21 57 25.5	−241.1	1.183732	+6306	7.10	7.43	−3.53	9 32.6
	27	54 3.79	314.35	22 1 26.6	203.4	190038	6278	07	39	52	33.9
	28	17 59 18.14	314.77	4 50.0	165.4	196316	6250	03	36	52	35.2
	29	18 4 32.91	315.11	7 35.4	127.2	202566	6223	7.00	32	51	36.5
	30	9 48.02	315.42	9 42.6	88.9	208789	6195	6.96	28	51	37.9
	31	18 15 3.44	+315.66	−22 11 11.5	−50.2	1.214984	+6169	6.93	7.24	−3.50	9 39.2
2	1	20 19.10	315.84	12 1.7	−11.5	221153	6142	89	21	50	40.5
	2	25 34.94	315.99	12 13.2	+27.3	227295	6115	85	17	49	41.8
	3	30 50.93	316.07	11 45.9	66.3	233410	6089	81	13	49	43.2
	4	36 7.00	316.12	10 39.6	105.3	239499	6062	78	10	48	44.5
	5	18 41 23.12	+316.09	−22 8 54.3	+144.2	1.245561	+6035	6.74	7.06	−3.48	9 45.8
	6	46 39.21	316.03	6 30.1	183.3	251596	6008	71	03	47	47.1
	7	51 55.24	315.91	22 3 26.8	222.3	257604	5981	68	7.00	47	48.5
	8	18 57 11.15	315.74	21 59 44.5	261.1	263585	5954	65	6.96	46	49.8
	9	19 2 26.89	315.52	55 23.4	300.0	269539	5926	62	93	46	51.1
	10	19 7 42.41	+315.24	−21 50 23.4	+338.6	1.275465	+5899	6.59	6.90	−3.46	9 52.4
	11	12 57.65	314.94	44 44.8	377.2	281364	5870	56	87	45	53.7
	12	18 12.59	314.55	38 27.6	415.5	287234	5842	53	83	45	55.0
	13	23 27.14	314.14	31 32.1	453.7	293076	5814	50	80	44	56.3
	14	28 41.28	313.69	23 58.4	491.7	298890	5785	47	77	44	57.6
	15	19 33 54.97	+313.17	−21 15 46.7	+529.2	1.304675	+5756	6.44	6.74	−3.43	9 58.9
	16	39 8.14	312.63	21 6 57.5	566.7	310431	5725	42	71	43	10 0.2
	17	44 20.77	312.02	20 57 30.8	603.7	316156	5696	39	69	43	1.4
	18	49 32.79	311.38	47 27.1	640.4	321852	5666	37	66	42	2.7
	19	54 44.17	310.72	36 46.7	676.8	327518	5634	34	63	42	3.9
	20	19 59 54.89	+309.99	−20 25 29.9	+712.7	1.333152	+5604	6.32	6.61	−3.42	10 5.2
	21	20 5 4.88	309.23	13 37.2	748.3	338756	5572	29	58	41	6.4
	22	10 14.11	308.45	20 1 8.9	783.4	344328	5541	26	55	41	7.6
	23	15 22.56	307.62	19 48 5.5	818.0	349869	5509	23	52	40	8.8
	24	20 30.18	306.75	34 27.5	852.1	355378	5479	21	49	40	10.0
	25	20 25 36.93	+305.88	−19 20 15.4	+885.7	1.360857	+5447	6.18	6.47	−3.40	10 11.1
	26	30 42.81	304.95	19 5 29.7	918.9	366304	5416	16	44	39	12.3
	27	35 47.76	304.03	18 50 10.8	951.5	371720	5384	13	41	39	13.4
	28	40 51.79	303.07	34 19.3	983.5	377104	5355	11	39	39	14.5
	29	45 54.86	+302.10	17 55.8	+1015.0	382459	+5323	08	36	38	15.6
3	1	20 50 56.96		−18 1 0.8		1.387782		6.06	6.34	−3.38	10 16.7

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
3	1	20 50 56.96	+301.11	−18 1 0.8	+1045.9	1.387782	+5293	6.06	6.34	−3.38	10 16.7
	2	20 55 58.07	300.12	17 43 34.9	1076.2	393075	5262	04	31	38	17.8
	3	21 0 58.19	299.13	25 38.7	1105.9	398337	5233	6.01	29	38	18.9
	4	5 57.32	298.10	17 7 12.8	1135.0	403570	5202	5.99	26	37	19.9
	5	10 55.42	297.10	16 48 17.8	1163.6	408772	5172	97	24	37	20.9
	6	21 15 52.52	+296.08	−16 28 54.2	+1191.4	1.413944	+5141	5.95	6.22	−3.37	10 21.9
	7	20 48.60	295.09	16 9 2.8	1218.6	419085	5110	93	20	36	22.9
	8	25 43.69	294.06	15 48 44.2	1245.3	424195	5080	91	18	36	23.9
	9	30 37.75	293.05	27 58.9	1271.1	429275	5049	89	16	36	24.8
	10	35 30.80	292.06	15 6 47.8	1296.5	434324	5018	87	14	36	25.7
	11	21 40 22.86	+291.07	−14 45 11.3	+1321.1	1.439342	+4986	5.84	6.11	−3.35	10 26.7
	12	45 13.93	290.09	23 10.2	1345.0	444328	4955	82	09	35	27.6
	13	50 4.02	289.12	14 0 45.2	1368.3	449283	4923	80	07	35	28.5
	14	54 53.14	288.16	13 37 56.9	1391.0	454206	4889	78	05	35	29.3
	15	21 59 41.30	287.22	13 14 45.9	1412.9	459095	4857	76	03	34	30.2
	16	22 4 28.52	+286.31	−12 51 13.0	+1434.1	1.463952	+4823	5.75	6.01	−3.34	10 31.0
	17	9 14.83	285.39	27 18.9	1454.7	468775	4790	73	5.99	34	31.8
	18	14 0.22	284.48	12 3 4.2	1474.6	473565	4755	71	97	34	32.6
	19	18 44.70	283.62	11 38 29.6	1493.7	478320	4720	70	96	34	33.4
	20	23 28.32	282.76	11 13 35.9	1512.2	483040	4685	68	94	34	34.2
	21	22 28 11.08	+281.94	−10 48 23.7	+1529.9	1.487725	+4650	5.66	5.92	−3.33	10 35.0
	22	32 53.02	281.11	10 22 53.8	1547.0	492375	4613	64	90	33	35.7
	23	37 34.13	280.33	9 57 6.8	1563.3	496988	4577	62	88	33	36.5
	24	42 14.46	279.55	31 3.5	1578.8	501565	4541	60	86	33	37.2
	25	46 54.01	278.82	9 4 44.7	1593.7	506106	4504	58	84	33	37.9
	26	22 51 32.83	+278.09	− 8 38 11.0	+1608.0	1.510610	+4467	5.56	5.82	−3.33	10 38.6
	27	22 56 10.92	277.40	8 11 23.0	1621.3	515077	4431	55	80	32	39.3
	28	23 0 48.32	276.74	7 44 21.7	1634.1	519508	4395	53	79	32	40.0
	29	5 25.06	276.11	7 17 7.6	1646.1	523903	4359	52	77	32	40.6
	30	10 1.17	275.53	6 49 41.5	1657.5	528262	4322	51	76	32	41.3
	31	23 14 36.70	+274.96	− 6 22 4.0	+1668.1	1.532584	+4286	5.49	5.74	−3.32	10 41.9
4	1	19 11.66	274.42	5 54 15.9	1678.0	536870	4250	48	73	32	42.6
	2	23 46.08	273.94	5 26 17.9	1687.3	541120	4214	46	71	32	43.2
	3	28 20.02	273.49	4 58 10.6	1695.9	545334	4177	45	70	32	43.8
	4	32 53.51	273.06	29 54.7	1703.7	549511	4140	43	68	32	44.4
	5	23 37 26.57	+272.69	− 4 1 31.0	+1710.9	1.553651	+4103	5.42	5.67	−3.32	10 45.0
	6	41 59.26	272.35	3 33 0.1	1717.4	557754	4067	40	65	32	45.6
	7	46 31.61	272.05	3 4 22.7	1723.2	561821	4029	38	63	32	46.2
	8	51 3.66	271.79	2 35 39.5	1728.3	565850	3991	37	62	31	46.8
	9	23 55 35.45	271.56	2 6 51.2	1732.8	569841	3953	35	60	31	47.4
	10	0 0 7.01	+271.38	− 1 37 58.4	+1736.5	1.573794	+3915	5.34	5.59	−3.31	10 48.0
	11	4 38.39	271.24	1 9 1.9	1739.6	577709	3877	33	58	31	48.6
	12	9 9.63	271.14	0 40 2.3	1742.1	581586	3837	31	56	31	49.2
	13	13 40.77	271.07	− 0 11 0.2	1743.7	585423	3797	30	55	31	49.7
	14	18 11.84	271.07	+ 0 18 3.5	1744.7	589220	3756	29	54	31	50.3
	15	0 22 42.91	+271.06	+ 0 47 8.2	+1745.2	1.592976	+3716	5.28	5.53	−3.31	10 50.9
	16	27 13.97	271.13	1 16 13.4	1744.7	596692	3674	27	52	31	51.5
	17	31 45.10	271.23	1 45 18.1	1743.7	600366	3631	26	50	31	52.0
	18	36 16.33	271.35	2 14 21.8	1742.0	603997	3589	25	49	32	52.6
	19	40 47.68	271.52	2 43 23.8	1739.5	607586	3546	24	48	32	53.2
	20	0 45 19.20	+271.74	+ 3 12 23.3	+1736.3	1.611132	+3501	5.23	5.46	−3.32	10 53.8
	21	49 50.94	271.97	3 41 19.6	1732.4	614633	3458	21	45	32	54.4
	22	54 22.91	272.25	4 10 12.0	1727.9	618091	3413	20	44	32	55.0
	23	0 58 55.16	272.57	4 38 59.9	1722.5	621504	3368	19	43	32	55.6
	24	1 3 27.73	272.92	5 7 42.4	1716.5	624872	3323	17	41	32	56.2
	25	1 8 0.65	+273.32	+ 5 36 18.9	+1709.8	1.628195	+3278	5.16	5.40	−3.32	10 56.8
	26	12 33.97	273.73	6 4 48.7	1702.3	631473	3232	15	39	32	57.4
	27	17 7.70	274.18	6 33 11.0	1694.2	634705	3188	14	38	32	58.0
	28	21 41.88	274.69	7 1 25.2	1685.2	637893	3141	13	37	32	58.6
	29	26 16.57	275.22	29 30.4	1675.7	641034	3097	13	36	32	59.3
	30	1 30 51.79		+ 7 57 26.1	+1665.4	1.644131	+3052	5.12	5.35	−3.32	10 59.9
5	1	1 35 27.59	+275.80	+ 8 25 11.5		1.647183		5.11	5.34	−3.33	11 0.6

月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s / s	° ′ ″ / ″		″	″		h m
5 1	1 35 27.59	+ 8 25 11.5	1.647183	5.11	5.34	− 3.33	11 0.6
	+ 276.40	+1654.5	+ 3006				
2	40 3.99	8 52 46.0	650189	10	34	33	1.3
	277.04	1642.8	2960				
3	44 41.03	9 20 8.8	653149	09	33	33	1.9
	277.72	1630.3	2914				
4	49 18.75	9 47 19.1	656063	08	32	33	2.6
	278.42	1617.2	2868				
5	53 57.17	10 14 16.3	658931	07	31	33	3.3
	279.18	1603.5	2822				
6	1 58 36.35	+10 40 59.8	1.661753	5.06	5.30	− 3.33	11 4.0
	+ 279.95	+1588.8	+ 2774				
7	2 3 16.30	11 7 28.6	664527	05	29	34	4.8
	280.76	1573.6	2728				
8	7 57.06	33 42.2	667255	04	28	34	5.5
	281.60	1557.6	2681				
9	12 38.66	11 59 39.8	669936	03	27	34	6.3
	282.49	1540.9	2633				
10	17 21.15	12 25 20.7	672569	02	26	34	7.1
	283.37	1523.6	2586				
11	2 22 4.52	+12 50 44.3	1.675155	5.02	5.25	− 3.34	11 7.8
	+ 284.31	+1505.4	+ 2537				
12	26 48.83	13 15 49.7	677692	01	24	35	8.6
	285.25	1486.7	2488				
13	31 34.08	13 40 36.4	680180	01	23	35	9.5
	286.25	1467.1	2439				
14	36 20.33	14 5 3.5	682619	00	23	35	10.3
	287.25	1446.8	2388				
15	41 7.58	29 10.3	685007	5.00	22	35	11.2
	288.26	1425.8	2337				
16	2 45 55.84	+14 52 56.1	1.687344	4.99	5.22	− 3.35	11 12.0
	+ 289.32	+1404.1	+ 2286				
17	50 45.16	15 16 20.2	689630	98	21	36	12.9
	290.36	1381.7	2233				
18	2 55 35.52	15 39 21.9	691863	98	20	36	13.8
	291.46	1358.5	2181				
19	3 0 26.98	16 2 0.4	694044	97	20	36	14.7
	292.53	1334.5	2128				
20	5 19.51	24 14.9	696172	96	19	36	15.7
	293.62	1309.9	2075				
21	3 10 13.13	+16 46 4.8	1.698247	4.95	5.19	− 3.37	11 16.6
	+ 294.73	+1284.5	+ 2020				
22	15 7.86	17 7 29.3	700267	95	18	37	17.6
	295.83	1258.4	1966				
23	20 3.69	28 27.7	702233	94	18	37	18.6
	296.95	1231.6	1912				
24	25 0.64	17 48 59.3	704145	94	17	38	19.6
	298.06	1204.1	1857				
25	29 58.70	18 9 3.4	706002	94	16	38	20.7
	299.17	1175.8	1802				
26	3 34 57.87	+18 28 39.2	1.707804	4.93	5.15	− 3.38	11 21.7
	+ 300.29	+1146.9	+ 1747				
27	39 58.16	18 47 46.1	709551	93	15	39	22.8
	301.40	1117.3	1693				
28	44 59.56	19 6 23.4	711244	92	14	39	23.9
	302.50	1086.9	1638				
29	50 2.06	24 30.3	712882	92	13	39	25.0
	303.60	1056.0	1584				
30	3 55 5.66	42 6.3	714466	91	13	40	26.1
	304.69	1024.4	1528				
31	4 0 10.35	+19 59 10.7	1.715994	4.91	5.12	− 3.40	11 27.3
	+ 305.76	+ 992.1	+ 1474				
6 1	5 16.11	20 15 42.8	717468	90	12	40	28.4
	306.83	959.2	1419				
2	10 22.94	31 42.0	718887	89	12	41	29.6
	307.88	925.6	1364				
3	15 30.82	20 47 7.6	720251	89	11	41	30.8
	308.90	891.5	1308				
4	20 39.72	21 1 59.1	721559	88	11	41	32.0
	309.92	856.8	1253				
5	4 25 49.64	+21 16 15.9	1.722812	4.88	5.11	− 3.42	11 33.3
	+ 310.91	+ 821.5	+ 1198				
6	31 0.55	29 57.4	724010	88	11	42	34.5
	311.86	785.6	1143				
7	36 12.41	43 3.0	725153	87	11	43	35.8
	312.81	749.3	1087				
8	41 25.22	21 55 32.3	726240	87	10	43	37.0
	313.72	712.3	1032				
9	46 38.94	22 7 24.6	727272	87	10	43	38.3
	314.60	674.9	977				
10	4 51 53.54	+22 18 39.5	1.728249	4.87	5.10	− 3.44	11 39.6
	+ 315.43	+ 637.0	+ 919				
11	4 57 8.97	29 16.5	729168	86	10	44	41.0
	316.25	598.6	863				
12	5 2 25.22	39 15.1	730031	86	09	45	42.3
	317.02	559.8	805				
13	7 42.24	48 34.9	730836	86	09	45	43.7
	317.75	520.5	748				
14	12 59.99	22 57 15.4	731584	86	09	46	45.0
	318.43	480.9	689				
15	5 18 18.42	+23 5 16.3	1.732273	4.85	5.08	− 3.46	11 46.4
	+ 319.07	+ 440.9	+ 630				
16	23 37.49	12 37.2	732903	85	08	47	47.8
	319.65	400.4	571				
17	28 57.14	19 17.6	733474	85	08	47	49.2
	320.18	359.7	512				
18	34 17.32	25 17.3	733986	85	08	48	50.6
	320.68	318.8	452				
19	39 38.00	30 36.1	734438	85	08	48	52.0
	321.10	277.5	392				
20	5 44 59.10	+23 35 13.6	1.734830	4.85	5.08	− 3.48	11 53.4
	+ 321.45	+ 235.9	+ 333				
21	50 20.55	39 9.5	735163	85	08	49	54.8
	321.78	194.2	272				
22	5 55 42.33	42 23.7	735435	85	08	49	56.2
	322.04	152.3	213				
23	6 1 4.37	44 56.0	735648	85	07	50	57.6
	322.23	110.1	152				
24	6 26.60	46 46.1	735800	85	07	50	59.1
	322.37	68.0	92				
25	6 11 48.97	+23 47 54.1	1.735892	4.85	5.07	− 3.51	12 0.5
	+ 322.45	+ 25.7	+ 32				
26	17 11.42	48 19.8	735924	85	07	51	1.9
	322.47	− 16.7	− 27				
27	22 33.89	48 3.1	735897	85	07	51	3.4
	322.42	59.1	87				
28	27 56.31	47 4.0	735810	85	07	51	4.8
	322.32	101.5	147				
29	33 18.63	45 22.5	735663	85	07	51	6.2
	322.16	143.8	206				
30	6 38 40.79	+23 42 58.7	1.735457	4.85	5.07	− 3.51	12 7.7
7 1	6 44 2.75	+23 39 52.6	1.735192	4.85	5.07	− 3.50	12 9.1
	+ 321.96	− 186.1	− 265				

月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s / s	° ′ ″ / ″		″	″		h m
7 1	6 44 2.75	+23 39 52.6	1.735192	4.85	5.07	− 3.50	12 9.1
	+ 321.66	− 228.2					
2	49 24.41	36 4.4	734869	85	08	50	10.5
	321.35	270.2	− 323				
3	6 54 45.76	31 34.2	734488	85	08	49	11.9
	320.96	312.1	381				
4	7 0 6.72	26 22.1	734048	85	08	49	13.3
	320.53	353.9	440				
5	5 27.25	20 28.2	733551	85	08	48	14.7
	320.02	395.2	497				
6	7 10 47.27	+23 13 53.0	1.732996	4.85	5.08	− 3.48	12 16.1
	+ 319.50	− 436.6	− 555				
7	16 6.77	23 6 36.4	732383	85	08	48	17.5
	318.91	477.5	− 613				
8	21 25.68	22 58 38.9	731713	85	08	47	18.9
	318.28	518.2	670				
9	26 43.96	50 0.7	730986	85	08	47	20.3
	317.59	558.4	727				
10	32 1.55	40 42.3	730201	86	09	46	21.6
	316.88	598.5	785				
			843				
11	7 37 18.43	+22 30 43.8	1.729358	4.86	5.09	− 3.46	12 22.9
	+ 316.12	− 638.1	− 901				
12	42 34.55	20 5.7	728457	86	09	46	24.2
	315.30	677.3	958				
13	47 49.85	22 8 48.4	727499	86	09	45	25.5
	314.48	716.1	1018				
14	53 4.33	21 56 52.3	726481	87	10	45	26.8
	313.59	754.4	1075				
15	7 58 17.92	44 17.9	725406	87	10	44	28.1
	312.67	792.3	1134				
16	8 3 30.59	+21 31 5.6	1.724272	4.87	5.10	− 3.44	12 29.4
	+ 311.71	− 829.7	− 1193				
17	8 42.30	17 15.9	723079	87	10	44	30.6
	310.74	866.5	1251				
18	13 53.04	21 2 49.4	721828	88	11	43	31.8
	309.71	902.9	1309				
19	19 2.75	20 47 46.5	720519	88	11	43	33.0
	308.68	938.6	1369				
20	24 11.43	32 7.9	719150	89	11	42	34.2
	307.61	973.9	1427				
21	8 29 19.04	+20 15 54.0	1.717723	4.89	5.12	− 3.42	12 35.4
	+ 306.52	−1008.5	− 1485				
22	34 25.56	19 59 5.5	716238	90	12	42	36.6
	305.41	1042.5	1543				
23	39 30.97	41 43.0	714695	91	13	41	37.7
	304.28	1076.0	1601				
24	44 35.25	23 47.0	713094	92	14	41	38.8
	303.14	1108.7	1658				
25	49 38.39	19 5 18.3	711436	92	14	41	39.9
	301.97	1140.8	1714				
26	8 54 40.36	+18 46 17.5	1.709722	4.93	5.15	− 3.41	12 41.0
	+ 300.82	−1172.3	− 1772				
27	8 59 41.18	26 45.2	707950	93	16	40	42.1
	299.65	1203.1	1828				
28	9 4 40.83	18 6 42.1	706122	93	17	40	43.1
	298.47	1233.4	1883				
29	9 39.30	17 46 8.7	704239	94	17	40	44.1
	297.29	1262.7	1938				
30	14 36.59	25 6.0	702301	94	18	39	45.1
	296.11	1291.5	1994				
31	9 19 32.70	+17 3 34.5	1.700307	4.95	5.18	− 3.39	12 46.1
8 1	+ 294.94	−1319.6	− 2048				
2	24 27.64	16 41 34.9	698259	95	18	39	47.1
	293.77	1347.0	2102				
3	29 21.41	16 19 7.9	696157	96	19	38	48.0
	292.62	1373.7	2154				
4	34 14.03	15 56 14.2	694003	96	19	38	48.9
	291.46	1399.6	2207				
5	39 5.49	32 54.6	691796	97	20	38	49.8
	290.34	1424.9	2259				
6	9 43 55.83	+15 9 9.7	1.689537	4.98	5.21	− 3.38	12 50.7
	+ 289.21	−1449.5	− 2310				
7	48 45.04	14 45 0.2	687227	98	21	37	51.6
	288.12	1473.3	2361				
8	53 33.16	14 20 26.9	684866	4.99	22	37	52.5
	287.04	1496.4	2413				
9	9 58 20.20	13 55 30.5	682453	5.00	23	37	53.3
	285.98	1518.9	2464				
10	10 3 6.18	30 11.6	679989	01	24	37	54.1
	284.94	1540.6	2515				
10	10 7 51.12	+13 4 31.0	1.677474	5.02	5.24	− 3.36	12 54.9
	+ 283.94	−1561.6	− 2565				
11	12 35.06	12 38 29.4	674909	03	25	36	55.7
	282.94	1581.8	2617				
12	17 18.00	12 12 7.6	672292	04	26	36	56.5
	281.99	1601.4	2668				
13	21 59.99	11 45 26.2	669624	05	27	36	57.2
	281.03	1620.2	2718				
14	26 41.02	11 18 26.0	666906	06	28	36	57.9
	280.13	1638.2	2769				
15	10 31 21.15	+10 51 7.8	1.664137	5.06	5.29	− 3.35	12 58.6
	+ 279.25	−1655.6	− 2820				
16	36 0.40	10 23 32.2	661317	07	30	35	12 59.3
	278.39	1672.2	2870				
17	40 38.79	9 55 40.0	658447	08	31	35	13 0.0
	277.57	1688.1	2921				
18	45 16.36	9 27 31.9	655526	08	32	35	0.7
	276.77	1703.2	2970				
19	49 53.13	8 59 8.7	652556	09	33	35	1.4
	276.01	1717.7	3021				
20	10 54 29.14	+ 8 30 31.0	1.649535	5.10	5.34	− 3.35	13 2.1
	+ 275.27	−1731.3	− 3070				
21	10 59 4.41	8 1 39.7	646465	11	35	34	2.7
	274.57	1744.2	3118				
22	11 3 38.98	7 32 35.5	643347	12	36	34	3.3
	273.92	1756.5	3166				
23	8 12.90	7 3 19.0	640181	13	37	34	3.9
	273.28	1767.9	3215				
24	12 46.18	6 33 51.1	636966	14	38	34	4.5
	272.69	1778.6	3262				
25	11 17 18.87	+ 6 4 12.5	1.633704	5.15	5.39	− 3.34	13 5.1
	+ 272.14	−1788.6	− 3309				
26	21 51.01	5 34 23.9	630395	17	40	34	5.7
	271.61	1797.9	3356				
27	26 22.62	5 4 26.0	627039	18	41	34	6.3
	271.13	1806.4	3401				
28	30 53.75	4 34 19.6	623638	19	42	34	6.9
	270.70	1814.2	3447				
29	35 24.45	4 4 5.4	620191	20	43	33	7.5
	270.28	1821.3	3492				
30	11 39 54.73	+ 3 33 44.1	1.616699	5.20	5.44	− 3.33	13 8.0
31	44 24.65	+ 3 3 16.4	613163	21	46	33	8.5
	+ 269.92	−1827.7	− 3536				
9 1	11 48 54.26	+ 2 32 43.0	1.609584	5.22	5.47	− 3.33	13 9.1
	+ 269.61	−1833.4	− 3579				

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
9	1	11 48 54.26	+ 269.34	+ 2 32 43.0	−1838.2	1.609584	− 3622	5.22	5.47	− 3.33	13 9.1
	2	53 23.60	269.10	2 2 4.8	1842.5	602299	3663	23	48	33	9.6
	3	11 57 52.70	268.92	1 31 22.3	1846.0	598595	3704	24	49	33	10.2
	4	12 2 21.62	268.78	1 0 36.3	1848.8	594849	3746	26	51	33	10.7
	5	6 50.40	268.67	+ 0 29 47.5	1850.9		3787	27	52	33	11.2
	6	12 11 19.07	+ 268.63	− 0 1 3.4	−1852.4	1.591062	− 3827	5.28	5.53	− 3.33	13 11.8
	7	15 47.70	268.63	0 31 55.8	1853.0	587235	3867	30	55	33	12.3
	8	20 16.33	268.65	1 2 48.8	1853.1	583368	3907	31	56	33	12.9
	9	24 44.98	268.74	1 33 41.9	1852.4	579461	3948	33	58	33	13.4
	10	29 13.72	268.86	2 4 34.3	1851.0	575513	3987	34	59	33	13.9
	11	12 33 42.58	+ 269.05	− 2 35 25.3	−1848.8	1.571526	− 4027	5.35	5.60	− 3.33	13 14.5
	12	38 11.63	269.24	3 6 14.1	1845.9	567499	4067	37	62	33	15.0
	13	42 40.87	269.49	3 37 0.0	1842.4	563432	4107	38	63	33	15.6
	14	47 10.36	269.79	4 7 42.4	1838.0	559325	4146	39	64	33	16.1
	15	51 40.15	270.12	4 38 20.4	1832.9	555179	4185	41	66	33	16.7
	16	12 56 10.27	+ 270.51	− 5 8 53.3	−1827.1	1.550994	− 4225	5.42	5.67	− 3.33	13 17.2
	17	13 0 40.78	270.92	5 39 20.4	1820.6	546769	4264	44	69	33	17.8
	18	5 11.70	271.36	6 9 41.0	1813.3	542505	4302	45	71	33	18.4
	19	9 43.06	271.87	6 39 54.3	1805.4	538203	4340	47	72	33	19.0
	20	14 14.93	272.41	7 9 59.7	1796.5	533863	4379	48	74	33	19.6
	21	13 18 47.34	+ 272.97	− 7 39 56.2	−1787.0	1.529484	− 4417	5.50	5.76	− 3.33	13 20.2
	22	23 20.31	273.57	8 9 43.2	1776.7	525067	4453	52	77	33	20.8
	23	27 53.88	274.21	8 39 19.9	1765.6	520614	4490	53	79	33	21.4
	24	32 28.09	274.91	9 8 45.5	1753.7	516124	4527	55	80	33	22.0
	25	37 3.00	275.61	9 37 59.2	1741.2	511597	4562	57	82	33	22.7
	26	13 41 38.61	+ 276.36	−10 7 0.4	−1727.9	1.507035	− 4599	5.58	5.84	− 3.33	13 23.3
	27	46 14.97	277.15	10 35 48.3	1713.7	502436	4632	60	86	33	24.0
	28	50 52.12	277.96	11 4 22.0	1698.8	497804	4667	61	88	33	24.7
	29	13 55 30.08	278.83	11 32 40.8	1683.1	493137	4700	63	90	33	25.4
	30	14 0 8.91	279.70	12 0 43.9	1666.8	488437	4734	65	92	34	26.1
10	1	14 4 48.61	+ 280.62	−12 28 30.7	−1649.6	1.483703	− 4765	5.67	5.93	− 3.34	13 26.8
	2	9 29.23	281.58	12 56 0.3	1631.6	478938	4797	69	95	34	27.6
	3	14 10.81	282.57	13 23 11.9	1612.9	474141	4828	71	97	34	28.3
	4	18 53.38	283.57	13 50 4.8	1593.5	469313	4860	73	5.99	34	29.1
	5	23 36.95	284.61	14 16 38.3	1573.3	464453	4889	74	6.01	34	29.9
	6	14 28 21.56	+ 285.68	−14 42 51.6	−1552.2	1.459564	− 4921	5.76	6.03	− 3.34	13 30.7
	7	33 7.24	286.79	15 8 43.8	1530.5	454643	4951	78	05	35	31.5
	8	37 54.03	287.90	34 14.3	1508.0	449692	4982	80	07	35	32.4
	9	42 41.93	289.04	15 59 22.3	1484.7	444710	5012	82	09	35	33.3
	10	47 30.97	290.21	16 24 7.0	1460.7	439698	5043	84	11	35	34.1
	11	14 52 21.18	+ 291.37	−16 48 27.7	−1435.8	1.434655	− 5074	5.86	6.13	− 3.35	13 35.1
	12	14 57 12.55	292.55	17 12 23.5	1410.3	429581	5104	88	15	35	36.0
	13	15 2 5.10	293.76	35 53.8	1383.8	424477	5134	90	18	36	36.9
	14	6 58.86	294.97	17 58 57.6	1356.7	419343	5165	93	20	36	37.9
	15	11 53.83	296.17	18 21 34.3	1328.7	414178	5195	95	23	36	38.9
	16	15 16 50.00	+ 297.39	−18 43 43.0	−1300.1	1.408983	− 5225	5.97	6.25	− 3.36	13 39.9
	17	21 47.39	298.61	19 5 23.1	1270.5	403758	5255	5.99	28	37	40.9
	18	26 46.00	299.82	26 33.6	1240.3	398503	5286	6.02	30	37	41.9
	19	31 45.82	301.02	19 47 13.9	1209.4	393217	5316	04	32	37	43.0
	20	36 46.84	302.23	20 7 23.3	1177.6	387901	5345	06	34	37	44.1
	21	15 41 49.07	+ 303.41	−20 27 0.9	−1145.1	1.382556	− 5375	6.08	6.36	− 3.38	13 45.2
	22	46 52.48	304.58	20 46 6.0	1112.0	377181	5405	11	39	38	46.3
	23	51 57.06	305.75	21 4 38.0	1078.0	371776	5434	13	41	38	47.5
	24	15 57 2.81	306.88	22 36.0	1043.5	366342	5462	15	44	38	48.7
	25	16 2 9.69	308.00	39 59.5	1008.1	360880	5490	18	46	39	49.8
	26	16 7 17.69	+ 309.09	−21 56 47.6	− 972.1	1.355390	− 5519	6.20	6.49	− 3.39	13 51.0
	27	12 26.78	310.15	22 12 59.7	935.5	349871	5546	23	52	39	52.3
	28	17 36.93	311.20	28 35.2	898.3	344325	5572	26	55	40	53.5
	29	22 48.13	312.19	43 33.5	860.3	338753	5598	28	57	40	54.7
	30	28 0.32	313.18	22 57 53.8	821.9	333155	5624	31	60	40	56.0
	31	16 33 13.50	+ 314.10	−23 11 35.7	− 782.8	1.327531	− 5650	6.34	6.63	− 3.41	13 57.3
11	1	16 38 27.60		−23 24 38.5		1.321881		6.37	6.66	− 3.41	13 58.6

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
11	1	16 38 27.60	+ 315.00	−23 24 38.5	− 743.2	1.321881	− 5675	6.37	6.66	− 3.41	13 58.6
	2	43 42.60	315.87	37 1.7	703.1	316206	5699	39	69	41	13 59.9
	3	48 58.47	316.68	48 44.8	662.4	310507	5724	42	72	42	14 1.3
	4	54 15.15	317.46	23 59 47.2	621.3	304783	5748	45	75	42	2.6
	5	16 59 32.61	318.18	24 10 8.5	579.9	299035	5773	48	78	42	4.0
	6	17 4 50.79	+ 318.87	−24 19 48.4	− 537.8	1.293262	− 5797	6.50	6.80	− 3.43	14 5.3
	7	10 9.66	319.48	28 46.2	495.5	287465	5822	53	83	43	6.7
	8	15 29.14	320.05	37 1.7	452.7	281643	5846	56	86	44	8.1
	9	20 49.19	320.56	44 34.4	409.7	275797	5871	59	89	44	9.5
	10	26 9.75	321.00	51 24.1	366.3	269926	5896	62	93	44	10.9
	11	17 31 30.75	+ 321.39	−24 57 30.4	− 322.5	1.264030	− 5920	6.66	6.96	− 3.45	14 12.3
	12	36 52.14	321.69	25 2 52.9	278.6	258110	5945	69	7.00	45	13.7
	13	42 13.83	321.96	7 31.5	234.5	252165	5970	72	03	46	15.1
	14	47 35.79	322.13	11 26.0	190.1	246195	5995	75	06	46	16.6
	15	52 57.92	322.24	14 36.1	145.5	240200	6020	78	10	46	18.0
	16	17 58 20.16	+ 322.28	−25 17 1.6	− 101.0	1.234180	− 6046	6.81	7.13	− 3.47	14 19.4
	17	18 3 42.44	322.24	18 42.6	56.2	228134	6071	84	17	47	20.9
	18	9 4.68	322.13	19 38.8	− 11.5	222063	6095	88	20	48	22.3
	19	14 26.81	321.94	19 50.3	+ 33.2	215968	6121	91	24	48	23.7
	20	19 48.75	321.69	19 17.1	78.0	209847	6146	95	28	49	25.1
	21	18 25 10.44	+ 321.35	−25 17 59.1	+ 122.6	1.203701	− 6170	6.98	7.31	− 3.49	14 26.6
	22	30 31.79	320.93	15 56.5	167.2	197531	6195	7.02	35	50	28.0
	23	35 52.72	320.45	13 9.3	211.7	191336	6219	06	38	50	29.4
	24	41 13.17	319.89	9 37.6	255.9	185117	6244	09	42	51	30.8
	25	46 33.06	319.26	5 21.7	300.1	178873	6266	13	46	51	32.1
	26	18 51 52.32	+ 318.57	−25 0 21.6	+ 343.9	1.172607	− 6290	7.17	7.50	− 3.52	14 33.5
	27	18 57 10.89	317.79	24 54 37.7	387.3	166317	6312	21	55	52	34.9
	28	19 2 28.68	316.95	48 10.4	430.6	160005	6334	25	59	53	36.2
	29	7 45.63	316.08	40 59.8	473.6	153671	6356	29	63	53	37.6
	30	13 1.71	315.11	33 6.2	516.0	147315	6377	33	67	54	38.9
12	1	19 18 16.82	+ 314.10	−24 24 30.2	+ 558.1	1.140938	− 6399	7.37	7.71	− 3.55	14 40.2
	2	23 30.92	313.05	15 12.1	599.8	134539	6419	41	75	55	41.5
	3	28 43.97	311.93	24 5 12.3	641.1	123120	6441	45	79	56	42.7
	4	33 55.90	310.76	23 54 31.2	681.9	121679	6460	49	84	56	44.0
	5	39 6.66	309.54	43 9.3	722.1	115219	6482	54	88	57	45.2
	6	19 44 16.20	+ 308.28	−23 31 7.2	+ 761.9	1.108737	− 6503	7.58	7.93	− 3.57	14 46.4
	7	49 24.48	306.98	18 25.3	801.0	102234	6523	63	7.98	58	47.6
	8	54 31.46	305.63	23 5 4.3	839.7	095711	6544	67	8.03	59	48.7
	9	19 59 37.09	304.24	22 51 4.6	877.7	089167	6565	72	08	59	49.9
	10	20 4 41.33	302.81	36 26.9	915.0	082602	6586	77	13	60	51.0
	11	20 9 44.14	+ 301.35	−22 21 11.9	+ 951.9	1.076016	− 6607	7.82	8.18	− 3.61	14 52.1
	12	14 45.49	299.85	22 5 20.0	988.0	069409	6628	87	23	61	53.2
	13	19 45.34	298.33	21 48 52.0	1023.3	062781	6650	92	29	62	54.2
	14	24 43.67	296.76	31 48.7	1058.1	056131	6672	7.97	34	63	55.2
	15	29 40.43	295.17	21 14 10.6	1092.2	049459	6693	8.02	39	63	56.2
	16	20 34 35.60	+ 293.56	−20 55 58.4	+1125.4	1.042766	− 6714	8.07	8.44	− 3.64	14 57.2
	17	39 29.16	291.92	37 13.0	1158.1	036052	6736	12	50	64	58.1
	18	44 21.08	290.26	20 17 54.9	1189.9	029316	6758	17	55	65	59.0
	19	49 11.34	288.56	19 58 5.0	1221.0	022558	6779	22	61	66	14 59.9
	20	53 59.90	286.88	37 44.0	1251.2	015779	6800	28	66	67	15 0.7
	21	20 58 46.78	+ 285.15	−19 16 52.8	+1280.8	1.008979	− 6822	8.33	8.72	− 3.67	15 1.5
	22	21 3 31.93	283.42	18 55 32.0	1309.5	1.002157	6843	39	78	68	2.3
	23	8 15.35	281.67	33 42.5	1337.4	0.995314	6863	45	84	69	3.1
	24	12 57.02	279.90	18 11 25.1	1364.5	988451	6884	51	90	70	3.8
	25	17 36.92	278.15	17 48 40.6	1390.9	981567	6903	57	8.97	70	4.5
	26	21 22 15.07	+ 276.38	−17 25 29.7	+1416.4	0.974664	− 6922	8.63	9.03	− 3.71	15 5.2
	27	26 51.45	274.61	17 1 53.3	1441.1	967742	6941	69	09	72	5.9
	28	31 26.06	272.85	16 37 52.2	1465.0	960801	6958	75	16	72	6.5
	29	35 58.91	271.08	16 13 27.2	1488.1	953843	6977	82	22	73	7.1
	30	40 29.99	269.33	15 48 39.1	1510.4	946866	6994	88	29	74	7.6
	31	21 44 59.32	+ 267.58	−15 23 28.7	+1531.9	0.939872	− 7011	8.95	9.36	− 3.75	15 8.1
12	32	21 49 26.90		−14 57 56.8		0.932861		9.02	9.43	− 3.76	15 8.6

月	日	世界時 0h 赤経	世界時 0h 赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s s	° ′ ″ ″		″	″		h m
1	1	4 11 55.44 − 30.57	+23 50 54.6 − 52.2	0.648327 + 6261	7.22	13.58	− 0.96	21 29.8
	2	11 24.87 26.94	50 2.4 46.6	654588 6400	15	45	93	25.4
	3	10 57.93 23.34	49 15.8 40.8	660988 6535	07	32	90	21.1
	4	10 34.59 19.75	48 35.0 34.8	667523 6667	7.00	19	87	16.8
	5	10 14.84 16.19	48 0.2 28.7	674190 6795	6.93	13.06	83	12.6
	6	4 9 58.65 − 12.68	+23 47 31.5 − 22.5	0.680985 + 6920	6.86	12.93	− 0.80	21 8.5
	7	9 45.97 9.18	47 9.0 16.2	687905 7040	80	80	77	4.4
	8	9 36.79 5.74	46 52.8 9.9	694945 7159	73	67	74	21 0.3
	9	9 31.05 − 2.35	46 42.9 − 3.6	702104 7273	67	54	71	20 56.4
	10	9 28.70 + 1.01	46 39.3 + 2.8	709377 7386	60	41	68	52.5
	11	4 9 29.71 + 4.33	+23 46 42.1 + 9.0	0.716763 + 7494	6.54	12.28	− 0.65	20 48.6
	12	9 34.04 7.58	46 51.1 15.3	724257 7600	47	16	61	44.8
	13	9 41.62 10.79	47 6.4 21.5	731857 7704	40	12.03	58	41.0
	14	9 52.41 13.97	47 27.9 27.7	739561 7804	33	11.90	55	37.3
	15	10 6.38 17.09	47 55.6 33.7	747365 7902	26	78	52	33.7
	16	4 10 23.47 + 20.16	+23 48 29.3 + 39.6	0.755267 + 7997	6.20	11.65	− 0.49	20 30.1
	17	10 43.63 23.17	49 8.9 45.4	763264 8089	13	53	46	26.5
	18	11 6.80 26.16	49 54.3 51.1	771353 8180	07	41	43	23.0
	19	11 32.96 29.08	50 45.4 56.7	779533 8267	6.00	29	40	19.5
	20	12 2.04 31.96	51 42.1 62.2	787800 8351	5.94	17	37	16.1
	21	4 12 34.00 + 34.79	+23 52 44.3 + 67.4	0.796151 + 8434	5.88	11.05	− 0.34	20 12.8
	22	13 8.79 37.57	53 51.7 72.6	804585 8515	82	10.93	31	9.5
	23	13 46.36 40.33	55 4.3 77.7	813100 8592	76	82	28	6.2
	24	14 26.69 43.01	56 22.0 82.4	821692 8665	70	70	25	20 3.0
	25	15 9.70 45.65	57 44.4 87.1	830357 8738	64	59	22	19 59.8
	26	4 15 55.35 + 48.26	+23 59 11.5 + 91.6	0.839095 + 8806	5.58	10.48	− 0.20	19 56.6
	27	16 43.61 50.78	24 0 43.1 95.9	847901 8873	52	37	17	53.5
	28	17 34.39 53.29	2 19.0 99.9	856774 8936	47	27	14	50.5
	29	18 27.68 55.71	3 58.9 103.8	865710 8997	41	16	11	47.5
	30	19 23.39 58.11	5 42.7 107.5	874707 9054	35	10.06	08	44.5
	31	4 20 21.50 + 60.42	+24 7 30.2 + 110.8	0.883761 + 9111	5.30	9.96	− 0.06	19 41.5
2	1	21 21.92 62.70	9 21.0 114.1	892872 9164	24	86	− 0.03	38.6
	2	22 24.62 64.92	11 15.1 117.0	902036 9215	19	76	0.00	35.8
	3	23 29.54 67.08	13 12.1 119.6	911251 9265	14	66	+ 0.03	33.0
	4	24 36.62 69.19	15 11.7 122.0	920516 9311	09	56	.05	30.2
	5	4 25 45.81 + 71.25	+24 17 13.7 + 124.2	0.929827 + 9357	5.04	9.47	+ 0.08	19 27.4
	6	26 57.06 73.26	19 17.9 126.2	939184 9400	4.99	37	11	24.7
	7	28 10.32 75.22	21 24.1 127.8	948584 9443	94	28	13	22.0
	8	29 25.54 77.14	23 31.9 129.2	958027 9483	89	19	16	19.3
	9	30 42.68 79.02	25 41.1 130.5	967510 9521	84	10	18	16.7
	10	4 32 1.70 + 80.83	+24 27 51.6 + 131.4	0.977031 + 9559	4.79	9.01	+ 0.21	19 14.1
	11	33 22.53 82.64	30 3.0 132.1	986590 9595	74	8.92	23	11.5
	12	34 45.17 84.38	32 15.1 132.5	0.996185 9629	70	84	26	9.0
	13	36 9.55 86.08	34 27.6 132.8	1.005814 9663	65	75	28	6.5
	14	37 35.63 87.77	36 40.4 132.8	015477 9695	61	67	31	4.0
	15	4 39 3.40 + 89.41	+24 38 53.2 + 132.6	1.025172 + 9725	4.57	8.59	+ 0.33	19 1.6
	16	40 32.81 91.01	41 5.8 132.3	034897 9754	52	51	35	18 59.1
	17	42 3.82 92.59	43 18.1 131.6	044651 9782	48	43	38	56.7
	18	43 36.41 94.13	45 29.7 130.8	054433 9808	44	35	40	54.4
	19	45 10.54 95.65	47 40.5 129.8	064241 9835	40	27	42	52.0
	20	4 46 46.19 + 97.12	+24 49 50.3 + 128.6	1.074076 + 9857	4.36	8.19	+ 0.45	18 49.7
	21	48 23.31 98.58	51 58.9 127.2	083933 9879	32	12	47	47.4
	22	50 1.89 100.02	54 6.1 125.6	093812 9900	28	8.04	49	45.1
	23	51 41.91 101.40	56 11.7 123.8	103712 9918	24	7.97	51	42.9
	24	53 23.31 102.77	24 58 15.5 121.8	113630 9936	20	90	53	40.6
	25	4 55 6.08 + 104.11	+25 0 17.3 + 119.7	1.123566 + 9950	4.17	7.83	+ 0.56	18 38.4
	26	56 50.19 105.41	2 17.0 117.3	133516 9965	13	76	58	36.2
	27	4 58 35.60 106.68	4 14.3 114.8	143481 9976	09	69	60	34.1
	28	5 0 22.28 107.93	6 9.1 112.0	153457 9986	06	63	62	31.9
	29	2 10.21 + 109.13	8 1.1 + 109.0	163443 + 9996	4.02	56	64	29.8
3	1	5 3 59.34	+25 9 50.1	1.173439	3.99	7.50	+ 0.66	18 27.7

月	日	世界時 0h 赤経	世界時 0h 赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s s	° ′ ″ ″		″	″		h m
3	1	5 3 59.34 + 110.30	+25 9 50.1 + 105.9	1.173439	3.99	7.50	+ 0.66	18 27.7
	2	5 49.64 111.44	11 36.0 102.7	183442 +10003	95	44	63	25.6
	3	7 41.08 112.56	13 18.7 99.1	193452 10010	92	37	70	23.6
	4	9 33.64 113.63	14 57.8 95.4	203467 10015	88	31	72	21.5
	5	11 27.27 114.68	16 33.2 91.6	213487 10020	85	25	74	19.5
	6	5 13 21.95 + 115.71	+25 18 4.8 + 87.5	1.223510 10023	3.82	7.19	+ 0.76	18 17.4
	7	15 17.66 116.72	19 32.3 83.4	233536 +10026	79	13	78	15.4
	8	17 14.38 117.68	20 55.7 79.0	243564 10028	76	08	80	13.5
	9	19 12.06 118.62	22 14.7 74.5	253592 10028	73	7.02	82	11.5
	10	21 10.68 119.55	23 29.2 69.8	263621 10029 10028	70	6.96	83	9.5
	11	5 23 10.23 + 120.46	+25 24 39.0 + 65.0	1.273649	3.67	6.91	+ 0.85	18 7.6
	12	25 10.69 121.33	25 44.0 60.0	283676 +10027	64	85	87	5.7
	13	27 12.02 122.19	26 44.0 54.9	293701 10025	61	80	89	3.8
	14	29 14.21 123.03	27 38.9 49.7	303723 10022	58	75	90	1.9
	15	31 17.24 123.85	28 28.6 44.2	313742 10019 10015	56	70	92	18 0.0
	16	5 33 21.09 + 124.67	+25 29 12.8 + 38.8	1.323757	3.53	6.65	+ 0.94	17 58.1
	17	35 25.76 125.44	29 51.6 33.1	333767 +10010	51	60	96	56.3
	18	37 31.20 126.21	30 24.7 27.4	343772 10005	49	55	97	54.4
	19	39 37.41 126.96	30 52.1 21.5	353771 9999	46	50	0.99	52.6
	20	41 44.37 127.70	31 13.6 15.6	363762 9991 9982	44	45	1.01	50.8
	21	5 43 52.07 + 128.43	+25 31 29.2 + 9.5	1.373744	3.41	6.40	+ 1.02	17 49.0
	22	46 0.50 129.13	31 38.7 + 3.3	383717 + 9973	38	36	04	47.2
	23	48 9.63 129.81	31 42.0 − 3.0	393680 9963	36	31	06	45.4
	24	50 19.44 130.48	31 39.0 9.4	403631 9951	33	27	07	43.7
	25	52 29.92 131.14	31 29.6 15.8	413569 9938 9924	31	23	09	41.9
	26	5 54 41.06 + 131.77	+25 31 13.8 − 22.4	1.423493	3.29	6.19	+ 1.10	17 40.2
	27	56 52.83 132.36	30 51.4 29.2	433402 + 9909	27	14	12	38.4
5	59 5.19 132.96	30 22.2 35.9	443294 9892	25	10	13	36.7
6	1 18.15 133.52	29 46.3 42.8	453169 9875	23	06	15	35.0
	3 31.67 134.09	29 3.5 49.8	463025 9856 9838	20	6.02	16	33.3
	31	6 5 45.76 + 134.59	+25 28 13.7 − 56.8	1.472863	3.18	5.98	+ 1.18	17 31.6
4	1	8 0.35 135.11	27 16.9 64.0	482680 + 9817	15	94	19	29.9
	2	10 15.46 135.59	26 12.9 71.2	492477 9797	13	90	20	28.2
	3	12 31.05 136.08	25 1.7 78.5	502253 9776	11	86	22	26.5
	4	14 47.13 136.52	23 43.2 85.9	512008 9755 9734	09	82	23	24.8
	5	6 17 3.65 + 136.95	+25 22 17.3 − 93.3	1.521742	3.08	5.79	+ 1.25	17 23.2
	6	19 20.60 137.38	20 44.0 100.9	531452 + 9710	06	75	26	21.5
	7	21 37.98 137.78	19 3.1 108.4	541140 9688	04	71	27	19.9
	8	23 55.76 138.17	17 14.7 116.0	550804 9664	02	67	29	18.3
	9	26 13.93 138.54	15 18.7 123.8	560444 9640 9617	3.00	64	30	16.6
	10	6 28 32.47	+25 13 14.9	1.570061	2.98	5.60	+ 1.31	17 15.0
	11	30 51.38 + 138.91	11 3.4 − 131.5	579654 + 9593	96	57	32	13.4
	12	33 10.64 139.26	8 44.1 139.3	589221 9567	94	53	34	11.7
	13	35 30.24 139.60	6 17.0 147.1	598764 9543	93	50	35	10.1
	14	37 50.17 139.93 140.25	3 41.9 155.1 163.0	608281 9517 9491	91	47	36	8.5
	15	6 40 10.42	+25 0 58.9	1.617772	2.90	5.44	+ 1.37	17 6.9
	16	42 30.97 + 140.55	24 58 7.9 − 171.0	627237 9465	89	41	38	5.3
	17	44 51.82 140.85	55 8.9 179.0	636674 9437	87	38	40	3.8
	18	47 12.96 141.14	52 1.8 187.1	646084 9410	86	35	41	2.2
	19	49 34.37 141.41 141.68	48 46.7 195.1 203.3	655466 9382 9353	84	32	42	17 0.6
	20	6 51 56.05	+24 45 23.4	1.664819	2.82	5.29	+ 1.43	16 59.0
	21	54 17.99 + 141.94	41 51.9 − 211.5	674141 9322	80	26	44	57.4
	22	56 40.17 142.18	38 12.3 219.6	683432 9291	78	23	45	55.9
	23	6 59 2.59 142.42	34 24.5 227.8	692691 9259	76	20	46	54.3
	24	7 1 25.24 142.65 142.84	30 28.6 235.9 244.3	701918 9227 9192	75	17	47	52.7
	25	7 3 48.08	+24 26 24.3	1.711110	2.73	5.14	+ 1.49	16 51.2
	26	6 11.13 + 143.05	22 11.9 − 252.4	720268 + 9158	72	11	50	49.6
	27	8 34.35 143.22	17 51.2 260.7	729391 9123	70	08	51	48.1
	28	10 57.74 143.39	13 22.2 269.0	738477 9086	69	06	52	46.5
	29	13 21.28 143.54 143.67	8 44.9 277.3 285.6	747527 9050 9014	67	03	53	45.0
	30	7 15 44.95	+24 3 59.3	1.756541	2.66	5.01	+ 1.54	16 43.4
5	1	7 18 8.77 + 143.82	+23 59 5.4 − 293.9	1.765518 + 8977	2.65	4.99	+ 1.55	16 41.9

月	日	世界時 0h 赤経		世界時 0h 赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
5	1	7 18 8.77		+23 59 5.4	− 302.1	1.765518		2.65	4.99	+ 1.55	16 41.9
	2	20 32.69	+ 143.92	54 3.3	310.4	774457	+ 8939	63	96	56	40.4
	3	22 56.71	144.02	48 52.9	318.7	783358	8901	62	94	57	38.8
	4	25 20.84	144.13	43 34.2	327.0	792222	8864	61	91	57	37.3
	5	27 45.05	144.21	38 7.2	335.3	801047	8825	60	88	58	35.7
			144.29				8786				
	6	7 30 9.34		+23 32 31.9	− 343.5	1.809833		2.58	4.86	+ 1.59	16 34.2
	7	32 33.68	+ 144.34	26 48.4	351.8	818581	+ 8748	57	83	60	32.7
	8	34 58.09	144.41	20 56.6	360.1	827291	8710	56	81	61	31.1
	9	37 22.53	144.44	14 56.5	368.3	835962	8671	55	79	62	29.6
	10	39 47.03	144.50	8 48.2	376.5	844594	8632	53	77	63	28.1
			144.53				8592				
	11	7 42 11.56		+23 2 31.7	− 384.7	1.853186		2.52	4.75	+ 1.64	16 26.5
	12	44 36.12	+ 144.56	22 56 7.0	392.9	861740	+ 8554	51	73	64	25.0
	13	47 0.70	144.58	49 34.1	401.0	870254	8514	50	71	65	23.5
	14	49 25.30	144.60	42 53.1	409.2	878729	8475	48	68	66	21.9
	15	51 49.92	144.62	36 3.9	417.4	887162	8433	47	66	67	20.4
			144.63				8394				
	16	7 54 14.55		+22 29 6.5	− 425.5	1.895556		2.46	4.64	+ 1.68	16 18.9
	17	56 39.19	+ 144.64	22 1.0	433.6	903908	+ 8352	45	62	69	17.4
	18	7 59 3.83	144.64	14 47.4	441.6	912219	8311	44	60	69	15.8
	19	8 1 28.47	144.64	22 7 25.8	449.6	920487	8268	44	59	70	14.3
	20	3 53.10	144.63	21 59 56.2	457.7	928712	8225	43	57	71	12.8
			144.61				8181				
	21	8 6 17.71		+21 52 18.5	− 465.6	1.936893		2.42	4.55	+ 1.71	16 11.2
	22	8 42.32	+ 144.61	44 32.9	473.5	945030	+ 8137	41	53	72	9.7
	23	11 6.88	144.56	36 39.4	481.4	953121	8091	40	51	73	8.2
	24	13 31.42	144.54	28 38.0	489.3	961166	8045	39	49	74	6.6
	25	15 55.92	144.50	20 28.7	497.1	969165	7999	38	47	74	5.1
			144.44				7951				
	26	8 18 20.36		+21 12 11.6	− 504.8	1.977116		2.37	4.45	+ 1.75	16 3.6
	27	20 44.76	+ 144.40	21 3 46.8	512.6	985020	+ 7904	36	44	76	2.0
	28	23 9.09	144.33	20 55 14.2	520.3	1.992877	7857	35	42	76	16 0.5
	29	25 33.34	144.25	46 33.9	527.8	2.000686	7809	34	40	77	15 59.0
	30	27 57.53	144.19	37 46.1	535.4	008446	7760	34	39	78	57.4
			144.12				7712				
	31	8 30 21.65		+20 28 50.7	− 543.0	2.016158		2.33	4.37	+ 1.78	15 55.9
6	1	32 45.66	+ 144.01	19 47.7	550.4	023822	+ 7664	32	35	79	54.3
	2	35 9.60	143.94	10 37.3	557.9	031437	7615	31	33	79	52.8
	3	37 33.44	143.84	20 1 19.4	565.3	039003	7566	30	31	80	51.3
	4	39 57.17	143.73	19 51 54.1	572.6	046521	7518	28	30	81	49.7
			143.64				7470				
	5	8 42 20.81		+19 42 21.5	− 579.8	2.053991		2.27	4.28	+ 1.81	15 48.2
	6	44 44.35	+ 143.54	32 41.7	587.1	061412	+ 7421	26	26	82	46.6
	7	47 7.78	143.43	22 54.6	594.3	068785	7373	25	25	82	45.1
	8	49 31.10	143.32	13 0.3	601.3	076109	7324	25	23	83	43.5
	9	51 54.32	143.22	19 2 59.0	608.4	083385	7276	24	22	83	41.9
			143.11				7227				
	10	8 54 17.43		+18 52 50.6	− 615.5	2.090612		2.23	4.20	+ 1.84	15 40.4
	11	56 40.42	+ 142.99	42 35.1	622.4	097791	+ 7179	22	19	84	38.8
	12	8 59 3.32	142.90	32 12.7	629.3	104920	7129	22	17	85	37.3
	13	9 1 26.12	142.80	21 43.4	636.2	112000	7080	21	16	85	35.7
	14	3 48.81	142.69	11 7.2	643.0	119031	7031	21	15	86	34.1
			142.58				6981				
	15	9 6 11.39		+18 0 24.2	− 649.8	2.126012		2.20	4.14	+ 1.86	15 32.6
	16	8 33.88	+ 142.49	17 49 34.4	656.4	132943	+ 6931	20	13	87	31.0
	17	10 56.26	142.38	38 38.0	663.2	139822	6879	19	12	87	29.4
	18	13 18.53	142.27	27 34.8	669.7	146650	6828	18	11	88	27.9
	19	15 40.71	142.18	16 25.1	676.1	153426	6776	18	09	88	26.3
			142.07				6723				
	20	9 18 2.78		+17 5 9.0	− 682.6	2.160149		2.17	4.08	+ 1.88	15 24.7
	21	20 24.74	+ 141.96	16 53 46.4	689.0	166818	+ 6669	16	06	89	23.2
	22	22 46.60	141.86	42 17.4	695.4	173434	6616	16	05	89	21.6
	23	25 8.35	141.75	30 42.0	701.6	179995	6561	15	03	90	20.0
	24	27 29.98	141.63	19 0.4	707.8	186502	6507	15	02	90	18.4
			141.51				6453				
	25	9 29 51.49		+16 7 12.6	− 713.9	2.192955		2.14	4.01	+ 1.90	15 16.8
	26	32 12.90	+ 141.41	15 55 18.7	720.0	199353	+ 6398	13	4.00	91	15.2
	27	34 34.19	141.29	43 18.7	725.9	205695	6342	13	3.99	91	13.7
	28	36 55.37	141.18	31 12.8	731.7	211983	6288	12	98	91	12.1
	29	39 16.42	141.05	19 1.1	737.5	218215	6232	11	97	92	10.5
			140.94				6177				
	30	9 41 37.36		+15 6 43.6	− 743.4	2.224392		2.10	3.96	+ 1.92	15 8.9
7	1	9 43 58.19	+ 140.83	+14 54 20.2		2.230514	+ 6122	2.10	3.94	+ 1.92	15 7.3

月	日	世界時 0h 赤経		世界時 0h 赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
7	1	9 43 58.19		+14 54 20.2	− 748.9	2.230514		2.10	3.94	+ 1.92	15 7.3
	2	46 18.89	+ 140.70	41 51.3	754.6	236581	+ 6067	09	93	93	5.7
	3	48 39.49	140.60	29 16.7	760.1	242593	6012	09	92	93	4.1
	4	50 59.97	140.48	16 36.6	765.6	248550	5957	09	91	93	2.5
	5	53 20.35	140.38	14 3 51.0	771.0	254453	5903	08	91	94	15 0.9
			140.26				5848				
	6	9 55 40.61		+13 51 0.0	− 776.2	2.260301		2.08	3.90	+ 1.94	14 59.3
	7	9 58 0.77	+ 140.16	38 3.8	781.5	266095	+ 5794	07	89	94	57.7
	8	10 0 20.82	140.05	25 2.3	786.7	271835	5740	06	88	94	56.1
	9	2 40.78	139.96	13 11 55.6	791.8	277520	5685	06	87	95	54.5
	10	5 0.65	139.87	12 58 43.8	796.9	283151	5631	05	85	95	52.8
			139.79				5577				
	11	10 7 20.44		+12 45 26.9	− 801.9	2.288728		2.04	3.84	+ 1.95	14 51.2
	12	9 40.14	+ 139.70	32 5.0	806.8	294250	+ 5522	03	83	95	49.6
	13	11 59.76	139.62	18 38.2	811.7	299717	5467	03	82	95	48.0
	14	14 19.32	139.56	12 5 6.5	816.5	305129	5412	02	82	96	46.4
	15	16 38.81	139.49	11 51 30.0	821.2	310485	5356	02	81	96	44.8
			139.41				5300				
	16	10 18 58.22		+11 37 48.8	− 825.9	2.315785		2.01	3.80	+ 1.96	14 43.2
	17	21 17.58	+ 139.36	24 2.9	830.5	321029	+ 5244	01	79	96	41.5
	18	23 36.88	139.30	11 10 12.4	834.9	326214	5185	00	78	96	39.9
	19	25 56.11	139.23	10 56 17.5	839.4	331343	5129	00	77	97	38.3
	20	28 15.30	139.19	42 18.1	843.8	336414	5071	00	77	97	36.7
			139.12				5012				
	21	10 30 34.42		+10 28 14.3	− 848.1	2.341426		2.00	3.76	+ 1.97	14 35.1
	22	32 53.51	+ 139.09	10 14 6.2	852.2	346379	+ 4953	00	76	97	33.4
	23	35 12.55	139.04	9 59 54.0	856.3	351274	4895	00	75	97	31.8
	24	37 31.53	138.98	45 37.7	860.4	356110	4836	2.00	74	97	30.2
	25	39 50.48	138.95	31 17.3	864.2	360887	4777	1.99	73	97	28.6
			138.89				4718				
	26	10 42 9.37		+ 9 16 53.1	− 868.1	2.365605		1.99	3.72	+ 1.97	14 26.9
	27	44 28.24	+ 138.87	9 2 25.0	871.9	370264	+ 4659	98	71	98	25.3
	28	46 47.07	138.83	8 47 53.1	875.5	374864	4600	97	70	98	23.7
	29	49 5.86	138.79	33 17.6	879.2	379406	4542	97	70	98	22.0
	30	51 24.64	138.78	18 38.4	882.7	383889	4483	96	69	98	20.4
			138.74				4425				
	31	10 53 43.38		+ 8 3 55.7	− 886.1	2.388314		1.96	3.69	+ 1.98	14 18.8
8	1	56 2.11	+ 138.73	7 49 9.6	889.5	392680	+ 4366	96	68	98	17.2
	2	10 58 20.81	138.70	34 20.1	892.8	396988	4308	96	68	98	15.5
	3	11 0 39.52	138.71	19 27.3	895.9	401238	4250	95	67	98	13.9
	4	2 58.21	138.69	7 4 31.4	899.0	405431	4193	95	66	98	12.3
			138.70				4136				
	5	11 5 16.91		+ 6 49 32.4	− 902.1	2.409567		1.95	3.65	+ 1.98	14 10.7
	6	7 35.61	+ 138.70	34 30.3	905.1	413645	+ 4078	94	64	98	9.0
	7	9 54.34	138.73	19 25.2	908.0	417667	4022	94	64	98	7.4
	8	12 13.08	138.74	6 4 17.2	910.8	421632	3965	93	63	98	5.8
	9	14 31.86	138.78	5 49 6.4	913.6	425540	3908	93	62	98	4.1
			138.81				3851				
	10	11 16 50.67		+ 5 33 52.8	− 916.3	2.429391		1.92	3.62	+ 1.98	14 2.5
	11	19 9.53	+ 138.86	18 36.5	918.8	433184	+ 3793	92	61	98	14 0.9
	12	21 28.44	138.91	5 3 17.7	921.4	436919	3735	92	61	98	13 59.3
	13	23 47.41	138.97	4 47 56.3	923.9	440597	3678	92	61	98	57.6
	14	26 6.43	139.02	32 32.4	926.2	444215	3618	92	60	98	56.0
			139.10				3560				
	15	11 28 25.53		+ 4 17 6.2	− 928.5	2.447775		1.91	3.60	+ 1.98	13 54.4
	16	30 44.69	+ 139.16	4 1 37.7	930.7	451275	+ 3500	91	59	98	52.8
	17	33 3.93	139.24	3 46 7.0	932.9	454716	3441	91	59	98	51.2
	18	35 23.26	139.33	30 34.1	934.8	458097	3381	91	58	98	49.5
	19	37 42.68	139.42	3 14 59.3	936.8	461418	3321	90	58	98	47.9
			139.51				3261				
	20	11 40 2.19		+ 2 59 22.5	− 938.6	2.464679		1.90	3.57	+ 1.98	13 46.3
	21	42 21.78	+ 139.59	43 43.9	940.4	467880	+ 3201	90	56	97	44.7
	22	44 41.48	139.70	28 3.5	942.0	471020	3140	90	56	97	43.1
	23	47 1.30	139.82	2 12 21.5	943.5	474101	3081	89	55	97	41.5
	24	49 21.21	139.91	1 56 38.0	945.0	477121	3020	89	55	97	39.9
			140.03				2960				
	25	11 51 41.24		+ 1 40 53.0	− 946.4	2.480081		1.89	3.55	+ 1.97	13 38.3
	26	54 1.39	+ 140.15	25 6.6	947.6	482982	+ 2901	89	55	97	36.6
	27	56 21.66	140.27	1 9 19.0	948.7	485822	2840	88	54	97	35.0
	28	11 58 42.06	140.40	0 53 30.3	949.8	488603	2781	88	54	97	33.4
	29	12 1 2.61	140.55	37 40.5	950.9	491325	2722	88	54	96	31.8
			140.67				2663				
	30	12 3 23.28		+ 0 21 49.6	− 951.6	2.493988		1.87	3.53	+ 1.96	13 30.3
	31	5 44.11	+ 140.83	+ 5 58.0		496593	+ 2605	87	53	96	28.7
9	1	12 8 5.10	+ 140.99	− 0 9 54.5	− 952.5	2.499140	+ 2547	1.87	3.52	+ 1.96	13 27.1

月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
9 1	12 8 5.10 + 141.16	− 0 9 54.5 − 953.1	2.499140 + 2489	1.87	3.52	+ 1.96	13 27.1
2	10 26.26 141.31	25 47.6 953.8	501629 2432	87	52	96	25.5
3	12 47.57 141.49	41 41.4 954.2	504061 2375	87	51	96	23.9
4	15 9.06 141.70	0 57 35.6 954.6	506436 2318	87	51	95	22.3
5	17 30.76 141.88	1 13 30.2 955.0	508754 2261	87	51	95	20.7
6	12 19 52.64 + 142.08	− 1 29 25.2 − 955.3	2.511015 + 2205	1.87	3.51	+ 1.95	13 19.2
7	22 14.72 142.31	1 45 20.5 955.4	513220 2146	87	51	95	17.6
8	24 37.03 142.52	2 1 15.9 955.5	515366 2090	86	50	95	16.0
9	26 59.55 142.75	17 11.4 955.5	517456 2032	86	50	94	14.5
10	29 22.30 142.98	33 6.9 955.4	519483 1974	85	50	94	12.9
11	12 31 45.28	− 2 49 2.3 − 955.3	2.521462 + 1917	1.85	3.50	+ 1.94	13 11.4
12	34 8.51 + 143.23	3 4 57.6 954.9	523379 1858	85	49	94	9.8
13	36 31.98 143.47	20 52.5 954.5	525237 1800	85	49	93	8.3
14	38 55.71 143.73	36 47.0 954.0	527037 1741	85	49	93	6.7
15	41 19.69 143.98	3 52 41.0 953.4	528778 1682	85	49	93	5.2
16	12 43 43.95 144.26	− 4 8 34.4 − 952.7	2.530460 + 1623	1.85	3.48	+ 1.93	13 3.6
17	46 8.49 + 144.54	24 27.1 951.8	532083 1564	85	48	92	2.1
18	48 33.30 144.81	40 18.9 950.9	533647 1506	85	48	92	13 0.6
19	50 58.38 145.08	4 56 9.8 949.7	535153 1447	85	48	92	12 59.1
20	53 23.76 145.38	5 11 59.5 948.6	536600 1388	84	47	91	57.5
21	12 55 49.45 145.69	− 5 27 48.1 − 947.3	2.537988 + 1330	1.84	3.47	+ 1.91	12 56.0
22	12 58 15.42 + 145.97	43 35.4 945.9	539318 1272	84	47	91	54.5
23	13 0 41.70 146.28	5 59 21.3 944.3	540590 1214	84	46	91	53.0
24	3 8.28 146.58	6 15 5.6 942.7	541804 1156	84	46	90	51.5
25	5 35.20 146.92	30 48.3 940.9	542960 1098	84	46	90	50.1
26	13 8 2.43 147.23	− 6 46 29.2 − 939.0	2.544058 + 1042	1.84	3.46	+ 1.90	12 48.6
27	10 29.98 + 147.55	7 2 8.2 936.9	545100 986	84	46	89	47.1
28	12 57.88 147.90	17 45.1 934.8	546086 929	83	46	89	45.6
29	15 26.12 148.24	33 19.9 932.6	547015 874	83	46	89	44.2
30	17 54.72 148.60	7 48 52.5 930.2	547889 819	83	46	88	42.7
10 1	13 20 23.66 148.94	− 8 4 22.7 − 927.7	2.548708 + 765	1.83	3.46	+ 1.88	12 41.2
2	22 52.98 + 149.32	19 50.4 925.1	549473 711	83	45	88	39.8
3	25 22.67 149.69	35 15.5 922.4	550184 657	83	45	87	38.3
4	27 52.75 150.08	8 50 37.9 919.7	550841 603	83	45	87	36.9
5	30 23.22 150.47	9 5 57.6 916.6	551444 550	83	45	86	35.5
6	13 32 54.08 150.86	− 9 21 14.2 − 913.7	2.551994 + 495	1.83	3.45	+ 1.86	12 34.1
7	35 25.35 + 151.27	36 27.9 910.6	552489 441	83	45	86	32.6
8	37 57.05 151.70	9 51 38.5 907.2	552930 388	83	45	85	31.2
9	40 29.16 152.11	10 6 45.7 903.9	553318 332	83	45	85	29.8
10	43 1.71 152.55	21 49.6 900.4	553650 279	83	45	84	28.4
11	13 45 34.70 152.99	−10 36 50.0 − 896.7	2.553929 + 224	1.83	3.45	+ 1.84	12 27.0
12	48 8.13 + 153.43	10 51 46.7 893.0	554153 169	83	45	84	25.7
13	50 42.00 153.87	11 6 39.7 888.9	554322 115	83	45	83	24.3
14	53 16.32 154.32	21 28.6 885.0	554437 61	83	45	83	22.9
15	55 51.12 154.80	36 13.6 880.8	554498 + 6	83	45	82	21.6
16	13 58 26.37 155.25	−11 50 54.4 − 876.4	2.554504 − 48	1.83	3.45	+ 1.82	12 20.2
17	14 1 2.03 + 155.71	12 5 30.8 871.9	554456 102	83	45	81	18.9
18	3 38.29 156.21	20 2.7 867.4	554354 157	83	45	81	17.5
19	6 14.95 156.66	34 30.1 862.6	554197 211	83	45	80	16.2
20	8 52.10 157.15	12 48 52.7 857.7	553986 264	83	45	80	14.9
21	14 11 29.74 157.64	−13 3 10.4 − 852.5	2.553722 − 317	1.83	3.45	+ 1.79	12 13.6
22	14 7.87 + 158.13	17 22.9 847.4	553405 370	83	45	79	12.3
23	16 46.49 158.62	31 30.3 842.0	553035 422	83	45	79	11.0
24	19 25.62 159.13	45 32.3 836.5	552613 475	83	45	78	9.7
25	22 5.24 159.62	13 59 28.8 830.9	552138 526	83	45	78	8.4
26	14 24 45.38 160.14	−14 13 19.7 − 825.1	2.551612 − 576	1.83	3.45	+ 1.77	12 7.2
27	27 26.02 + 160.64	27 4.8 819.1	551036 626	83	45	76	5.9
28	30 7.18 161.16	40 43.9 813.0	550410 676	83	45	76	4.6
29	32 48.86 161.68	14 54 16.9 806.8	549734 723	83	45	75	3.4
30	35 31.07 162.21	15 7 43.7 800.5	549011 773	83	46	75	2.2
31	14 38 13.83 162.76	−15 21 4.2 − 793.9	2.548238 − 821	1.83	3.46	+ 1.74	12 0.9
11 1	14 40 57.12 + 163.29	−15 34 18.1 −	2.547417	1.83	3.46	+ 1.74	11 59.7

月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
11 1	14 40 57.12 + 163.82	−15 34 18.1 − 787.3	2.547417 − 868	1.83	3.46	+ 1.74	11 59.7
2	43 40.94 164.40	15 47 25.4 780.5	546549 915	83	46	73	58.5
3	46 25.34 164.94	16 0 25.9 773.5	545634 963	83	46	73	57.3
4	49 10.28 165.51	13 19.4 766.5	544671 1010	83	46	72	56.1
5	51 55.79 166.07	26 5.9 759.2	543661 1057	83	46	72	55.0
6	14 54 41.86 + 166.65	−16 38 45.1 − 751.8	2.542604 − 1104	1.83	3.46	+ 1.71	11 53.8
7	14 57 28.51 167.21	16 51 16.9 744.4	541500 1152	84	46	71	52.6
8	15 0 15.72 167.80	17 3 41.3 736.7	540348 1199	84	46	70	51.5
9	3 3.52 168.37	15 58.0 728.8	539149 1246	84	46	70	50.3
10	5 51.89 168.95	28 6.8 720.9	537903 1293	84	46	69	49.2
11	15 8 40.84 + 169.54	−17 40 7.7 − 712.7	2.536610 − 1340	1.84	3.47	+ 1.68	11 48.1
12	11 30.38 170.11	17 52 0.4 704.4	535270 1387	84	47	68	47.0
13	14 20.49 170.71	18 3 44.8 695.9	533883 1434	84	47	67	45.9
14	17 11.20 171.27	15 20.7 687.3	532449 1480	84	47	67	44.8
15	20 2.47 171.87	26 48.0 678.5	530969 1526	85	48	66	43.7
16	15 22 54.34 + 172.44	−18 38 6.5 − 669.5	2.529443 − 1572	1.85	3.48	+ 1.66	11 42.6
17	25 46.78 173.02	18 49 16.0 660.5	527871 1618	85	48	66	41.6
18	28 39.80 173.61	19 0 16.5 651.1	526253 1662	85	48	66	40.5
19	31 33.41 174.18	11 7.6 641.6	524591 1707	85	49	66	39.5
20	34 27.59 174.76	21 49.2 632.0	522884 1752	85	49	66	38.4
21	15 37 22.35 + 175.34	−19 32 21.2 − 622.3	2.521132 − 1795	1.85	3.49	+ 1.66	11 37.4
22	40 17.69 175.90	42 43.5 612.3	519337 1838	85	49	66	36.4
23	43 13.59 176.48	19 52 55.8 602.2	517499 1880	86	50	66	35.4
24	46 10.07 177.05	20 2 58.0 591.9	515619 1921	86	50	66	34.4
25	49 7.12 177.61	12 49.9 581.6	513698 1962	86	50	66	33.4
26	15 52 4.73 + 178.18	−20 22 31.5 − 571.0	2.511736 − 2003	1.87	3.50	+ 1.66	11 32.4
27	55 2.91 178.75	32 2.5 560.2	509733 2041	87	51	66	31.5
28	15 58 1.66 179.30	41 22.7 549.4	507692 2080	87	51	66	30.5
29	16 1 0.96 179.88	50 32.1 538.4	505612 2118	87	51	65	29.6
30	4 0.84 180.44	20 59 30.5 527.2	503494 2156	87	51	65	28.6
12 1	16 7 1.28 + 180.99	−21 8 17.7 − 516.0	2.501338 − 2194	1.87	3.52	+ 1.65	11 27.7
2	10 2.27 181.56	16 53.7 504.5	499144 2231	87	52	65	26.8
3	13 3.83 182.12	25 18.2 492.9	496913 2269	87	52	65	25.9
4	16 5.95 182.66	33 31.1 481.2	494644 2305	87	53	65	25.0
5	19 8.61 183.20	41 32.3 469.3	492339 2342	88	53	65	24.1
6	16 22 11.81 + 183.75	−21 49 21.6 − 457.3	2.489997 − 2379	1.88	3.54	+ 1.65	11 23.2
7	25 15.56 184.30	21 56 58.9 445.2	487618 2415	88	54	65	22.3
8	28 19.86 184.82	22 4 24.1 432.8	485203 2452	88	55	65	21.4
9	31 24.68 185.34	11 36.9 420.4	482751 2488	89	55	64	20.6
10	34 30.02 185.85	18 37.3 407.8	480263 2524	89	55	64	19.7
11	16 37 35.87 + 186.37	−22 25 25.1 − 395.1	2.477739 − 2560	1.89	3.55	+ 1.64	11 18.9
12	40 42.24 186.87	32 0.2 382.2	475179 2596	89	55	64	18.1
13	43 49.11 187.36	38 22.4 369.3	472583 2631	90	56	64	17.2
14	46 56.47 187.84	44 31.7 356.1	469952 2666	90	56	64	16.4
15	50 4.31 188.30	50 27.8 342.9	467286 2701	90	56	64	15.6
16	16 53 12.61 + 188.77	−22 56 10.7 − 329.5	2.464585 − 2735	1.91	3.57	+ 1.64	11 14.8
17	56 21.38 189.22	23 1 40.2 315.9	461850 2769	91	57	63	14.0
18	16 59 30.60 189.66	6 56.1 302.3	459081 2802	91	58	63	13.2
19	17 2 40.26 190.08	11 58.4 288.5	456279 2835	91	58	63	12.4
20	5 50.34 190.50	16 46.9 274.6	453444 2866	91	58	63	11.7
21	17 9 0.84 + 190.90	−23 21 21.5 − 260.7	2.450578 − 2896	1.91	3.59	+ 1.63	11 10.9
22	12 11.74 191.29	25 42.2 246.5	447682 2927	91	59	63	10.2
23	15 23.03 191.68	29 48.7 232.4	444755 2956	91	59	62	9.4
24	18 34.71 192.04	33 41.1 218.0	441799 2984	91	60	62	8.7
25	21 46.75 192.41	37 19.1 203.6	438815 3012	92	60	62	7.9
26	17 24 59.16 + 192.76	−23 40 42.7 − 189.1	2.435803 − 3039	1.92	3.61	+ 1.62	11 7.2
27	28 11.92 193.10	43 51.8 174.6	432764 3066	92	61	62	6.5
28	31 25.02 193.43	46 46.4 159.9	429698 3091	92	62	62	5.7
29	34 38.45 193.75	49 26.3 145.1	426607 3118	93	62	61	5.0
30	37 52.20 194.07	51 51.4 130.3	423489 3142	93	63	61	4.3
31	17 41 6.27	−23 54 1.7	2.420347 − 3168	1.93	3.63	+ 1.61	11 3.6
12 32	17 44 20.64 + 194.37	−23 55 57.2 − 115.5	2.417179	1.93	3.64	+ 1.61	11 2.9

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
1	1	9 56 22.88	− 13.49	+13 33 55.1	+ 86.9	4.620972	− 11402	19.89	1.90	− 1.97	3 17.7
	2	56 9.39	14.20	35 22.0	90.4	609570	11193	94	90	98	13.5
	3	55 55.19	14.90	36 52.4	94.0	598377	10980	19.99	91	98	9.4
	4	55 40.29	15.58	38 26.4	97.3	587397	10762	20.04	91	99	5.2
	5	55 24.71	16.25	40 3.7	100.8	576635	10541	09	92	1.99	3 1.0
	6	9 55 8.46	− 16.93	+13 41 44.5	+ 104.1	4.566094	− 10314	20.14	1.92	− 2.00	2 56.8
	7	54 51.53	17.59	43 28.6	107.3	555780	10085	18	93	00	52.6
	8	54 33.94	18.23	45 15.9	110.5	545695	9851	23	93	01	48.3
	9	54 15.71	18.87	47 6.4	113.7	535844	9613	27	94	01	44.1
	10	53 56.84	19.51	49 0.1	116.7	526231	9371	31	95	01	39.9
	11	9 53 37.33	− 20.12	+13 50 56.8	+ 119.7	4.516860	− 9125	20.36	1.95	− 2.02	2 35.6
	12	53 17.21	20.73	52 56.5	122.6	507735	8875	40	96	02	31.3
	13	52 56.48	21.34	54 59.1	125.4	498860	8622	44	96	03	27.1
	14	52 35.14	21.90	57 4.5	128.1	490238	8364	48	96	03	22.8
	15	52 13.24	22.48	13 59 12.6	130.7	481874	8103	51	97	04	18.5
	16	9 51 50.76	− 23.03	+14 1 23.3	+ 133.3	4.473771	− 7838	20.55	1.97	− 2.04	2 14.2
	17	51 27.73	23.59	3 36.6	135.8	465933	7569	58	97	04	9.9
	18	51 4.14	24.11	5 52.4	138.2	458364	7298	62	97	05	5.5
	19	50 40.03	24.63	8 10.6	140.5	451066	7022	65	97	05	2 1.2
	20	50 15.40	25.11	10 31.1	142.6	444044	6741	69	98	05	1 56.9
	21	9 49 50.29	− 25.60	+14 12 53.7	+ 144.7	4.437303	− 6459	20.72	1.98	− 2.06	1 52.5
	22	49 24.69	26.08	15 18.4	146.6	430844	6172	75	98	06	48.2
	23	48 58.61	26.51	17 45.0	148.5	424672	5882	78	98	06	43.8
	24	48 32.10	26.93	20 13.5	150.2	418790	5589	80	99	06	39.4
	25	48 5.17	27.36	22 43.7	151.9	413201	5294	83	99	07	35.0
	26	9 47 37.81	− 27.73	+14 25 15.6	+ 153.3	4.407907	− 4995	20.85	1.99	− 2.07	1 30.7
	27	47 10.08	28.11	27 48.9	154.7	402912	4694	88	1.99	07	26.3
	28	46 41.97	28.44	30 23.6	156.0	398218	4391	90	2.00	08	21.9
	29	46 13.53	28.78	32 59.6	157.1	393827	4087	92	00	08	17.5
	30	45 44.75	29.06	35 36.7	158.2	389740	3780	94	00	08	13.1
	31	9 45 15.69	− 29.35	+14 38 14.9	+ 159.0	4.385960	− 3472	20.96	2.01	− 2.08	1 8.6
2	1	44 46.34	29.62	40 53.9	159.8	382488	3163	97	01	08	1 4.2
	2	44 16.72	29.85	43 33.7	160.5	379325	2853	20.99	01	08	0 59.8
	3	43 46.87	30.07	46 14.2	161.0	376472	2541	21.00	01	08	55.4
	4	43 16.80	30.25	48 55.2	161.4	373931	2229	02	01	09	51.0
	5	9 42 46.55	− 30.43	+14 51 36.6	+ 161.7	4.371702	− 1916	21.03	2.01	− 2.09	0 46.5
	6	42 16.12	30.58	54 18.3	161.9	369786	1603	04	01	09	42.1
	7	41 45.54	30.71	57 0.2	161.9	368183	1288	06	01	09	37.6
	8	41 14.83	30.82	14 59 42.1	161.8	366895	974	08	02	09	33.2
	9	40 44.01	30.89	15 2 23.9	161.7	365921	660	09	02	09	28.8
	10	9 40 13.12	− 30.97	+15 5 5.6	+ 161.4	4.365261	− 345	21.10	2.02	− 2.09	0 24.3
	11	39 42.15	30.99	7 47.0	161.0	364916	− 29	09	02	09	19.9
	12	39 11.16	31.03	10 28.0	160.5	364887	+ 286	08	02	09	15.4
	13	38 40.13	31.02	13 8.5	159.8	365173	601	07	02	09	11.0
	14	38 9.11	30.99	15 48.3	159.1	365774	917	06	02	09	6.5
	15	9 37 38.12	− 30.95	+15 18 27.4	+ 158.2	4.366691	+ 1232	21.05	2.02	− 2.09	{0 2.1 23 57.6
	16	37 7.17	30.86	21 5.6	157.2	367923	1546	05	02	09	53.2
	17	36 36.31	30.79	23 42.8	156.1	369469	1861	04	01	09	48.7
	18	36 5.52	30.67	26 18.9	155.0	371330	2174	03	01	09	44.3
	19	35 34.85	30.51	28 53.9	153.7	373504	2487	02	01	09	39.9
	20	9 35 4.34	− 30.37	+15 31 27.6	+ 152.2	4.375991	+ 2799	21.01	2.01	− 2.08	23 35.4
	21	34 33.97	30.18	33 59.8	150.7	378790	3110	20.99	01	08	31.0
	22	34 3.79	29.96	36 30.5	149.1	381900	3419	98	01	08	26.6
	23	33 33.83	29.74	38 59.6	147.4	385319	3728	96	01	08	22.2
	24	33 4.09	29.48	41 27.0	145.5	389047	4032	94	01	08	17.7
	25	9 32 34.61	− 29.19	+15 43 52.5	+ 143.6	4.393079	+ 4337	20.92	2.00	− 2.07	23 13.3
	26	32 5.42	28.90	46 16.1	141.6	397416	4639	90	00	07	8.9
	27	31 36.52	28.59	48 37.7	139.5	402055	4938	88	00	07	4.5
	28	31 7.93	28.22	50 57.2	137.3	406993	5233	86	2.00	07	23 0.1
	29	30 39.71	− 27.88	53 14.5	+ 135.0	412226	+ 5526	83	1.99	06	22 55.7
3	1	9 30 11.83		+15 55 29.5		4.417752		20.81	1.99	− 2.06	22 51.3

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
3	1	9 30 11.83	− 27.49	+15 55 29.5	+ 132.6	4.417752	+ 5816	20.81	1.99	− 2.06	22 51.3
	2	29 44.34	27.09	57 42.1	130.3	423568	6102	78	99	06	46.9
	3	29 17.25	26.66	15 59 52.4	127.6	429670	6386	75	99	06	42.6
	4	28 50.59	26.23	16 2 0.0	125.1	436056	6667	72	98	05	38.2
	5	28 24.36	25.78	4 5.1	122.4	442723	6945	69	98	05	33.8
	6	9 27 58.58	− 25.31	+16 6 7.5	+ 119.8	4.449668	+ 7218	20.66	1.98	− 2.05	22 29.5
	7	27 33.27	24.82	8 7.3	117.0	456886	7488	63	98	04	25.1
	8	27 8.45	24.33	10 4.3	114.1	464374	7756	59	97	04	20.8
	9	26 44.12	23.81	11 58.4	111.2	472130	8019	56	97	03	16.5
	10	26 20.31	23.28	13 49.6	108.4	480149	8278	52	97	03	12.2
	11	9 25 57.03	− 22.72	+16 15 38.0	+ 105.4	4.488427	+ 8535	20.48	1.96	− 2.03	22 7.9
	12	25 34.31	22.18	17 23.4	102.2	496962	8789	44	96	02	22 3.6
	13	25 12.13	21.61	19 5.6	99.2	505751	9039	40	95	02	21 59.3
	14	24 50.52	21.02	20 44.8	96.1	514790	9285	36	95	01	55.0
	15	24 29.50	20.42	22 20.9	92.9	524075	9527	32	95	01	50.7
	16	9 24 9.08	− 19.81	+16 23 53.8	+ 89.7	4.533602	+ 9766	20.27	1.94	− 2.00	21 46.5
	17	23 49.27	19.20	25 23.5	86.5	543368	10000	23	94	2.00	42.2
	18	23 30.07	18.57	26 50.0	83.3	553368	10231	19	94	1.99	38.0
	19	23 11.50	17.92	28 13.3	79.8	563599	10457	14	93	99	33.7
	20	22 53.58	17.26	29 33.1	76.6	574056	10680	10	93	98	29.5
	21	9 22 36.32	− 16.59	+16 30 49.7	+ 73.2	4.584736	+ 10899	20.05	1.92	− 1.98	21 25.3
	22	22 19.73	15.92	32 2.9	69.7	595635	11114	20.00	92	97	21.1
	23	22 3.81	15.24	33 12.6	66.3	606749	11324	19.96	91	97	16.9
	24	21 48.57	14.54	34 18.9	62.9	618073	11528	91	91	96	12.7
	25	21 34.03	13.83	35 21.8	59.4	629601	11728	86	90	96	8.6
	26	9 21 20.20	− 13.13	+16 36 21.2	+ 55.9	4.641329	+ 11923	19.81	1.90	− 1.95	21 4.4
	27	21 7.07	12.42	37 17.1	52.3	653252	12114	76	89	95	21 0.3
	28	20 54.65	11.69	38 9.4	48.9	665366	12298	70	89	94	20 56.2
	29	20 42.96	10.97	38 58.3	45.3	677664	12478	65	88	93	52.1
	30	20 31.99	10.22	39 43.6	41.9	690142	12652	60	88	93	48.0
	31	9 20 21.77	− 9.50	+16 40 25.5	+ 38.2	4.702794	+ 12823	19.55	1.87	− 1.92	20 43.9
4	1	20 12.27	8.76	41 3.7	34.8	715617	12988	49	87	92	39.8
	2	20 3.51	8.02	41 38.5	31.2	728605	13148	44	86	91	35.7
	3	19 55.49	7.28	42 9.7	27.6	741753	13304	39	86	90	31.7
	4	19 48.21	6.53	42 37.3	24.1	755057	13454	33	85	90	27.6
	5	9 19 41.68	− 5.80	+16 43 1.4	+ 20.6	4.768511	+ 13601	19.28	1.85	− 1.89	20 23.6
	6	19 35.88	5.05	43 22.0	17.0	782112	13742	22	84	89	19.6
	7	19 30.83	4.29	43 39.0	13.5	795854	13880	17	84	88	15.6
	8	19 26.54	3.56	43 52.5	10.1	809734	14012	11	83	87	11.6
	9	19 22.98	2.81	44 2.6	6.6	823746	14140	06	83	87	7.6
	10	9 19 20.17	− 2.07	+16 44 9.2	+ 3.0	4.837886	+ 14263	19.00	1.82	− 1.86	20 3.6
	11	19 18.10	1.31	44 12.2	− 0.5	852149	14383	18.95	82	85	19 59.7
	12	19 16.79	− 0.58	44 11.7	3.9	866532	14497	89	81	85	55.7
	13	19 16.21	+ 0.16	44 7.8	7.4	881029	14608	84	81	84	51.8
	14	19 16.37	0.91	44 0.4	10.9	895637	14715	78	80	83	47.9
	15	9 19 17.28	+ 1.65	+16 43 49.5	− 14.4	4.910352	+ 14817	18.72	1.80	− 1.83	19 44.0
	16	19 18.93	2.38	43 35.1	17.7	925169	14914	67	79	82	40.1
	17	19 21.31	3.14	43 17.4	21.2	940083	15008	61	79	81	36.2
	18	19 24.45	3.86	42 56.2	24.6	955091	15096	55	78	81	32.3
	19	19 28.31	4.59	42 31.6	27.9	970187	15181	50	78	80	28.5
	20	9 19 32.90	+ 5.33	+16 42 3.7	− 31.4	4.985368	+ 15259	18.44	1.77	− 1.79	19 24.6
	21	19 38.23	6.06	41 32.3	34.8	5.000627	15334	39	77	79	20.8
	22	19 44.29	6.79	40 57.5	38.2	015961	15403	33	76	78	17.0
	23	19 51.08	7.51	40 19.3	41.5	031364	15469	27	75	77	13.2
	24	19 58.59	8.23	39 37.8	44.8	046833	15529	22	75	77	9.4
	25	9 20 6.82	+ 8.96	+16 38 53.0	− 48.2	5.062362	+ 15583	18.16	1.74	− 1.76	19 5.6
	26	20 15.78	9.65	38 4.8	51.5	077945	15634	10	73	75	19 1.8
	27	20 25.43	10.36	37 13.3	54.7	093579	15680	18.04	72	75	18 58.0
	28	20 35.79	11.07	36 18.6	57.9	109259	15721	17.99	72	74	54.3
	29	20 46.86	11.74	35 20.7	61.2	124980	15759	93	71	73	50.5
	30	9 20 58.60	+ 12.44	+16 34 19.5	− 64.4	5.140739	+ 15792	17.88	1.71	− 1.73	18 46.8
5	1	9 21 11.04		+16 33 15.1		5.156531		17.83	1.71	− 1.72	18 43.1

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地心平均視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
5 1	9 21 11.04	+ 13.11	+16 33 15.1	− 67.7	5.156531	+ 15821	17.83	1.71	− 1.72	18 43.1
2	21 24.15	13.78	32 7.4	70.7	172352	15845	78	70	71	39.4
3	21 37.93	14.46	30 56.7	74.0	188197	15866	72	70	71	35.7
4	21 52.39	15.11	29 42.7	77.0	204063	15882	67	69	70	32.0
5	22 7.50	15.77	28 25.7	80.2	219945	15896	62	69	69	28.3
6	9 22 23.27	+ 16.41	+16 27 5.5	− 83.1	5.235841	+ 15905	17.56	1.68	− 1.69	18 24.7
7	22 39.68	17.06	25 42.4	86.3	251746	15910	51	68	68	21.0
8	22 56.74	17.68	24 16.1	89.3	267656	15912	45	67	67	17.4
9	23 14.42	18.32	22 46.8	92.3	283568	15911	40	67	67	13.8
10	23 32.74	18.94	21 14.5	95.3	299479	15906	34	66	66	10.1
11	9 23 51.68	+ 19.55	+16 19 39.2	− 98.2	5.315385	+ 15898	17.29	1.66	− 1.65	18 6.5
12	24 11.23	20.15	18 1.0	101.2	331283	15886	24	65	65	18 2.9
13	24 31.38	20.77	16 19.8	104.1	347169	15872	19	65	64	17 59.3
14	24 52.15	21.36	14 35.7	107.0	363041	15852	14	64	63	55.8
15	25 13.51	21.93	12 48.7	109.9	378893	15830	09	64	63	52.2
16	9 25 35.44	+ 22.53	+16 10 58.8	− 112.8	5.394723	+ 15805	17.04	1.63	− 1.62	17 48.6
17	25 57.97	23.11	9 6.0	115.6	410528	15776	16.99	63	61	45.1
18	26 21.08	23.69	7 10.4	118.4	426304	15742	94	62	61	41.5
19	26 44.77	24.25	5 12.0	121.3	442046	15705	89	62	60	38.0
20	27 9.02	24.80	3 10.7	124.1	457751	15664	84	61	59	34.5
21	9 27 33.82	+ 25.37	+16 1 6.6	− 126.8	5.473415	+ 15620	16.79	1.60	− 1.59	17 31.0
22	27 59.19	25.90	15 58 59.8	129.6	489035	15572	74	60	58	27.5
23	28 25.09	26.45	56 50.2	132.4	504607	15520	70	59	57	24.0
24	28 51.54	26.98	54 37.8	135.1	520127	15465	65	59	57	20.5
25	29 18.52	27.50	52 22.7	137.7	535592	15406	60	59	56	17.0
26	9 29 46.02	+ 28.02	+15 50 5.0	− 140.3	5.550998	+ 15345	16.56	1.59	− 1.56	17 13.5
27	30 14.04	28.52	47 44.7	143.0	566343	15279	51	58	55	10.1
28	30 42.56	29.01	45 21.7	145.7	581622	15210	47	58	54	6.6
29	31 11.57	29.52	42 56.0	148.2	596832	15139	42	58	54	17 3.2
30	31 41.09	29.99	40 27.8	150.7	611971	15065	38	57	53	16 59.7
31	9 32 11.08	+ 30.46	+15 37 57.1	− 153.3	5.627036	+ 14988	16.33	1.57	− 1.53	16 56.3
6 1	32 41.54	30.94	35 23.8	155.8	642024	14907	29	56	52	52.9
2	33 12.48	31.41	32 48.0	158.3	656931	14826	25	55	51	49.5
3	33 43.89	31.84	30 9.7	160.7	671757	14741	20	55	51	46.1
4	34 15.73	32.30	27 29.0	163.2	686498	14652	16	54	50	42.7
5	9 34 48.03	+ 32.74	+15 24 45.8	− 165.6	5.701150	+ 14563	16.12	1.54	− 1.50	16 39.3
6	35 20.77	33.16	22 0.2	168.1	715713	14470	08	54	49	35.9
7	35 53.93	33.59	19 12.1	170.3	730183	14375	04	54	49	32.5
8	36 27.52	34.01	16 21.8	172.8	744558	14279	16.00	53	48	29.1
9	37 1.53	34.42	13 29.0	175.1	758837	14180	15.96	53	48	25.8
10	9 37 35.95	+ 34.83	+15 10 33.9	− 177.4	5.773017	+ 14077	15.92	1.53	− 1.47	16 22.4
11	38 10.78	35.24	7 36.5	179.6	787094	13974	88	52	46	19.1
12	38 46.02	35.62	4 36.9	182.0	801068	13867	85	52	46	15.7
13	39 21.64	36.02	15 1 34.9	184.3	814935	13758	81	51	45	12.4
14	39 57.66	36.39	14 58 30.6	186.5	828693	13646	77	51	45	9.1
15	9 40 34.05	+ 36.78	+14 55 24.1	− 188.7	5.842339	+ 13532	15.73	1.50	− 1.44	16 5.7
16	41 10.83	37.15	52 15.4	190.9	855871	13415	70	50	44	16 2.4
17	41 47.98	37.50	49 4.5	193.1	869286	13295	66	50	43	15 59.1
18	42 25.48	37.88	45 51.4	195.2	882581	13174	63	50	43	55.8
19	43 3.36	38.23	42 36.2	197.4	895755	13049	59	50	42	52.5
20	9 43 41.59	+ 38.56	+14 39 18.8	− 199.6	5.908804	+ 12920	15.56	1.49	− 1.42	15 49.2
21	44 20.15	38.91	35 59.2	201.7	921724	12790	53	49	41	45.9
22	44 59.06	39.25	32 37.5	203.7	934514	12659	50	49	41	42.6
23	45 38.31	39.57	29 13.8	205.7	947173	12523	47	48	40	39.4
24	46 17.88	39.87	25 48.1	207.8	959696	12387	43	48	40	36.1
25	9 46 57.75	+ 40.19	+14 22 20.3	− 209.8	5.972083	+ 12248	15.40	1.47	− 1.39	15 32.8
26	47 37.94	40.50	18 50.5	211.7	984331	12108	37	47	39	29.6
27	48 18.44	40.80	15 18.8	213.7	5.996439	11964	33	46	39	26.3
28	48 59.24	41.08	11 45.1	215.7	6.008403	11820	30	46	38	23.0
29	49 40.32	41.37	8 9.4	217.6	020223	11673	27	46	38	19.8
30	9 50 21.69	+ 41.65	+14 4 31.8	− 219.4	6.031896	+ 11525	15.24	1.46	− 1.37	15 16.6
7 1	9 51 3.34		+14 0 52.4		6.043421		15.21	1.46	− 1.37	15 13.3

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地心平均視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
7 1	9 51 3.34	+ 41.91	+14 0 52.4	− 221.2	6.043421	+ 11375	15.21	1.46	− 1.37	15 13.3
2	51 45.25	42.19	13 57 11.2	223.1	054796	11225	18	45	36	10.1
3	52 27.44	42.45	53 28.1	224.9	066021	11073	15	45	36	6.9
4	53 9.89	42.70	49 43.2	226.6	077094	10919	12	45	36	3.6
5	53 52.59	42.94	45 56.6	228.4	088013	10763	09	45	35	15 0.4
6	9 54 35.53	+ 43.19	+13 42 8.2	− 230.2	6.098776	+ 10607	15.07	1.44	− 1.35	14 57.2
7	55 18.72	43.43	38 18.0	231.9	109383	10449	04	44	34	54.0
8	56 2.15	43.66	34 26.1	233.7	119832	10289	15.01	44	34	50.8
9	56 45.81	43.88	30 32.4	235.2	130121	10128	14.99	44	34	47.6
10	57 29.69	44.12	26 37.2	237.0	140249	9965	96	43	33	44.4
11	9 58 13.81	+ 44.34	+13 22 40.2	− 238.6	6.150214	+ 9801	14.94	1.43	− 1.33	14 41.2
12	58 58.15	44.55	18 41.6	240.2	160015	9636	92	43	33	38.0
13	9 59 42.70	44.76	14 41.4	241.8	169651	9467	89	43	32	34.8
14	10 0 27.46	44.97	10 39.6	243.4	179118	9298	87	42	32	31.6
15	1 12.43	45.16	6 36.2	245.0	188416	9126	85	42	32	28.4
16	10 1 57.59	+ 45.38	+13 2 31.2	− 246.5	6.197542	+ 8954	14.83	1.42	− 1.31	14 25.2
17	2 42.97	45.56	12 58 24.7	248.0	206496	8779	81	41	31	22.0
18	3 28.53	45.73	54 16.7	249.5	215275	8602	79	41	31	18.9
19	4 14.26	45.92	50 7.2	251.0	223877	8424	77	41	30	15.7
20	5 0.18	46.09	45 56.2	252.4	232301	8245	75	41	30	12.5
21	10 5 46.27	+ 46.27	+12 41 43.8	− 253.9	6.240546	+ 8062	14.73	1.41	− 1.30	14 9.4
22	6 32.54	46.42	37 29.9	255.2	248608	7881	71	41	29	6.2
23	7 18.96	46.57	33 14.7	256.6	256489	7696	69	41	29	14 3.0
24	8 5.53	46.73	28 58.1	257.9	264185	7512	67	41	29	13 59.9
25	8 52.26	46.87	24 40.2	259.1	271697	7325	65	41	29	56.7
26	10 9 39.13	+ 47.01	+12 20 21.1	− 260.5	6.279022	+ 7139	14.64	1.40	− 1.28	13 53.6
27	10 26.14	47.15	16 0.6	261.7	286161	6951	62	40	28	50.4
28	11 13.29	47.28	11 38.9	263.0	293112	6764	60	40	28	47.3
29	12 0.57	47.41	7 15.9	264.1	299876	6573	59	40	28	44.1
30	12 47.98	47.51	12 2 51.8	265.4	306449	6384	57	40	27	41.0
31	10 13 35.49	+ 47.65	+11 58 26.4	− 266.5	6.312333	+ 6192	14.56	1.40	− 1.27	13 37.8
8 1	14 23.14	47.74	53 59.9	267.6	319025	6001	55	40	27	34.7
2	15 10.88	47.85	49 32.3	268.6	325026	5809	54	40	27	31.6
3	15 58.73	47.95	45 3.7	269.7	330835	5616	52	39	26	28.4
4	16 46.68	48.06	40 34.0	270.8	336451	5425	51	39	26	25.3
5	10 17 34.74	+ 48.14	+11 36 3.2	− 271.8	6.341876	+ 5230	14.49	1.39	− 1.26	13 22.2
6	18 22.88	48.24	31 31.4	272.9	347106	5036	48	39	26	19.0
7	19 11.12	48.32	26 58.5	273.8	352142	4839	46	39	26	15.9
8	19 59.44	48.42	22 24.7	274.8	356981	4643	45	39	25	12.8
9	20 47.86	48.48	17 49.9	275.7	361624	4446	44	39	25	9.6
10	10 21 36.34	+ 48.57	+11 13 14.2	− 276.6	6.366070	+ 4247	14.43	1.39	− 1.25	13 6.5
11	22 24.91	48.63	8 37.6	277.5	370317	4048	43	38	25	3.4
12	23 13.54	48.71	11 4 0.1	278.4	374365	3847	42	38	25	13 0.3
13	24 2.25	48.76	10 59 21.7	279.1	378212	3646	41	38	25	12 57.1
14	24 51.01	48.83	54 42.6	280.0	381858	3443	40	38	25	54.0
15	10 25 39.84	+ 48.87	+10 50 2.6	− 280.8	6.385301	+ 3239	14.40	1.38	− 1.24	12 50.9
16	26 28.71	48.92	45 21.8	281.5	388540	3035	39	38	24	47.8
17	27 17.63	48.98	40 40.3	282.3	391575	2830	39	38	24	44.7
18	28 6.61	48.99	35 58.0	282.9	394405	2624	38	38	24	41.5
19	28 55.60	49.05	31 15.1	283.6	397029	2418	38	38	24	38.4
20	10 29 44.65	+ 49.06	+10 26 31.5	− 284.3	6.399447	+ 2211	14.37	1.38	− 1.24	12 35.3
21	30 33.71	49.09	21 47.2	284.8	401658	2004	36	38	24	32.2
22	31 22.80	49.13	17 2.4	285.4	403662	1797	35	38	24	29.1
23	32 11.93	49.12	12 17.0	285.9	405459	1589	35	37	24	25.9
24	33 1.05	49.13	7 31.1	286.6	407048	1381	34	37	24	22.8
25	10 33 50.18	+ 49.15	+10 2 44.5	− 286.9	6.408429	+ 1174	14.34	1.37	− 1.24	12 19.7
26	34 39.33	49.13	9 57 57.6	287.2	409603	966	33	37	24	16.6
27	35 28.46	49.14	53 10.4	287.6	410569	758	33	37	23	13.5
28	36 17.60	49.14	48 22.8	288.1	411327	550	33	37	23	10.4
29	37 6.74	49.11	43 34.7	288.5	411877	343	33	37	23	7.2
30	10 37 55.85	+ 49.10	+ 9 38 46.2	− 288.7	6.412220	+ 136	14.33	1.37	− 1.23	12 4.1
31	38 44.95	+ 49.08	33 57.5	− 289.1	412356	− 72	33	37	23	12 1.0
9 1	10 39 34.03		+ 9 29 8.4		6.412284		14.33	1.37	− 1.23	11 57.9

月日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
9 1	10 39 34.03	+ 49.07	+ 9 29 8.4	− 289.3	6.412284	− 278	14.33	1.37	− 1.23	11 57.9
2	40 23.10	49.03	24 19.1	289.5	412006	485	33	37	23	54.8
3	41 12.13	48.99	19 29.6	289.8	411521	692	33	37	23	51.6
4	42 1.12	48.97	14 39.8	289.9	410829	900	33	37	23	48.5
5	42 50.09	48.93	9 49.9	290.1	409929	1107	33	37	23	45.4
6	10 43 39.02	+ 48.88	+ 9 4 59.8	− 290.2	6.408822	− 1316	14.33	1.37	− 1.23	11 42.3
7	44 27.90	48.85	9 0 9.6	290.3	407506	1523	34	37	23	39.2
8	45 16.75	48.80	8 55 19.3	290.4	405983	1732	34	37	24	36.1
9	46 5.55	48.75	50 28.9	290.4	404251	1941	35	37	24	32.9
10	46 54.30	48.68	45 38.5	290.4	402310	2149	35	37	24	29.8
11	10 47 42.98	+ 48.63	+ 8 40 48.1	− 290.4	6.400161	− 2359	14.36	1.37	− 1.24	11 26.7
12	48 31.61	48.56	35 57.7	290.3	397802	2567	36	38	24	23.6
13	49 20.17	48.49	31 7.4	290.2	395235	2776	37	38	24	20.4
14	50 8.66	48.41	26 17.2	290.1	392459	2985	38	38	24	17.3
15	50 57.07	48.33	21 27.1	289.9	389474	3193	38	38	24	14.2
16	10 51 45.40	+ 48.25	+ 8 16 37.2	− 289.7	6.386281	− 3401	14.39	1.38	− 1.24	11 11.0
17	52 33.65	48.15	11 47.5	289.5	382880	3610	40	38	24	7.9
18	53 21.80	48.05	6 58.0	289.1	379270	3818	41	38	24	4.8
19	54 9.85	47.95	8 2 8.9	288.8	375452	4025	41	38	24	11 1.6
20	54 57.80	47.86	7 57 20.1	288.5	371427	4232	42	38	25	10 58.5
21	10 55 45.66	+ 47.74	+ 7 52 31.6	− 288.1	6.367195	− 4438	14.43	1.38	− 1.25	10 55.4
22	56 33.40	47.62	47 43.5	287.7	362757	4642	44	38	25	52.2
23	57 21.02	47.50	42 55.8	287.1	358115	4847	45	38	25	49.1
24	58 8.52	47.39	38 8.7	286.7	353268	5050	47	39	25	45.9
25	58 55.91	47.25	33 22.0	286.2	348218	5252	48	39	25	42.8
26	10 59 43.16	+ 47.11	+ 7 28 35.8	− 285.5	6.342966	− 5454	14.49	1.39	− 1.26	10 39.6
27	11 0 30.27	46.97	23 50.3	284.9	337512	5654	50	39	26	36.5
28	1 17.24	46.84	19 5.4	284.3	331858	5853	52	39	26	33.3
29	2 4.08	46.70	14 21.1	283.6	326005	6052	53	39	26	30.2
30	2 50.78	46.53	9 37.5	282.9	319953	6249	54	39	26	27.0
10 1	11 3 37.31	+ 46.38	+ 7 4 54.6	− 282.1	6.313704	− 6445	14.56	1.39	− 1.26	10 23.9
2	4 23.69	46.22	7 0 12.5	281.3	307259	6641	57	40	27	20.7
3	5 9.91	46.08	6 55 31.2	280.5	300618	6835	59	40	27	17.5
4	5 55.99	45.90	50 50.7	279.7	293783	7030	60	40	27	14.4
5	6 41.89	45.72	46 11.0	278.7	286753	7224	62	40	27	11.2
6	11 7 27.61	+ 45.55	+ 6 41 32.3	− 277.9	6.279529	− 7417	14.63	1.40	− 1.28	10 8.0
7	8 13.16	45.38	36 54.4	277.0	272112	7610	65	40	28	4.8
8	8 58.54	45.20	32 17.4	275.9	264502	7802	67	40	28	10 1.6
9	9 43.74	45.00	27 41.5	274.8	256700	7993	69	40	28	9 58.5
10	10 28.74	44.81	23 6.7	273.8	248707	8184	71	41	29	55.3
11	11 11 13.55	+ 44.60	+ 6 18 32.9	− 272.7	6.240523	− 8373	14.73	1.41	− 1.29	9 52.1
12	11 58.15	44.39	14 0.2	271.5	232150	8562	75	41	29	48.9
13	12 42.54	44.18	9 28.7	270.3	223588	8747	77	41	30	45.7
14	13 26.72	43.97	4 58.4	269.0	214841	8934	79	42	30	42.5
15	14 10.69	43.74	6 0 29.4	267.7	205907	9117	81	42	30	39.3
16	11 14 54.43	+ 43.51	+ 5 56 1.7	− 266.4	6.196790	− 9301	14.83	1.42	− 1.30	9 36.1
17	15 37.94	43.29	51 35.3	265.0	187489	9482	85	42	31	32.9
18	16 21.23	43.03	47 10.3	263.6	178007	9661	88	43	31	29.7
19	17 4.26	42.78	42 46.7	262.1	168346	9840	90	43	31	26.4
20	17 47.04	42.55	38 24.6	260.6	158506	10015	92	43	32	23.2
21	11 18 29.59	+ 42.27	+ 5 34 4.0	− 259.0	6.148491	− 10190	14.95	1.43	− 1.32	9 20.0
22	19 11.86	42.01	29 45.0	257.5	138301	10362	14.97	44	32	16.8
23	19 53.87	41.75	25 27.5	255.8	127939	10531	15.00	44	33	13.5
24	20 35.62	41.47	21 11.7	254.1	117408	10699	02	44	33	10.3
25	21 17.09	41.20	16 57.6	252.3	106709	10865	05	44	34	7.0
26	11 21 58.29	+ 40.90	+ 5 12 45.3	− 250.6	6.095844	− 11029	15.07	1.45	− 1.34	9 3.8
27	22 39.19	40.61	8 34.7	248.8	084815	11191	10	45	34	9 0.5
28	23 19.80	40.33	4 25.9	247.0	073624	11352	13	45	35	8 57.3
29	24 0.13	40.01	5 0 18.9	245.0	062272	11509	16	45	35	54.0
30	24 40.14	39.73	4 56 13.9	243.1	050763	11666	19	46	35	50.7
31	11 25 19.87	+ 39.40	+ 4 52 10.8	− 241.2	6.039097	− 11820	15.22	1.46	− 1.36	8 47.5
11 1	11 25 59.27		+ 4 48 9.6		6.027277		15.25	1.46	− 1.36	8 44.2

月日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
11 1	11 25 59.27	+ 39.09	+ 4 48 9.6	− 239.1	6.027277	− 11972	15.25	1.46	− 1.36	8 44.2
2	26 38.36	38.79	44 10.5	237.0	015305	12123	28	46	37	40.9
3	27 17.15	38.44	40 13.5	235.0	6.003182	12272	31	47	37	37.6
4	27 55.59	38.12	36 18.5	232.9	5.990910	12420	34	47	38	34.3
5	28 33.71	37.78	32 25.6	230.6	978490	12564	37	47	38	31.0
6	11 29 11.49	+ 37.44	+ 4 28 35.0	− 228.5	5.965926	− 12708	15.41	1.47	− 1.39	8 27.7
7	29 48.93	37.08	24 46.5	226.2	953218	12848	44	48	39	24.4
8	30 26.01	36.73	21 0.3	223.9	940370	12988	48	48	39	21.1
9	31 2.74	36.36	17 16.4	221.5	927382	13125	51	48	40	17.7
10	31 39.10	35.99	13 34.9	219.1	914257	13258	54	48	40	14.4
11	11 32 15.09	+ 35.61	+ 4 9 55.8	− 216.6	5.900999	− 13391	15.58	1.49	− 1.41	8 11.1
12	32 50.70	35.22	6 19.2	214.1	887608	13521	61	49	41	7.7
13	33 25.92	34.84	4 2 45.1	211.6	874087	13646	64	49	42	4.4
14	34 0.76	34.44	3 59 13.5	209.0	860441	13771	68	50	42	8 1.0
15	34 35.20	34.03	55 44.5	206.2	846670	13891	71	50	43	7 57.7
16	11 35 9.23	+ 33.61	+ 3 52 18.3	− 203.6	5.832779	− 14009	15.75	1.51	− 1.43	7 54.3
17	35 42.84	33.21	48 54.7	200.7	818770	14124	79	51	44	50.9
18	36 16.05	32.78	45 34.0	198.0	804646	14235	83	51	44	47.5
19	36 48.83	32.33	42 16.0	195.1	790411	14343	88	52	45	44.1
20	37 21.16	31.90	39 0.9	192.2	776068	14448	92	52	45	40.7
21	11 37 53.06	+ 31.46	+ 3 35 48.7	− 189.3	5.761620	− 14549	15.96	1.52	− 1.46	7 37.3
22	38 24.52	31.00	32 39.4	186.2	747071	14648	15.99	53	47	33.9
23	38 55.52	30.55	29 33.2	183.3	732423	14742	16.03	53	47	30.5
24	39 26.07	30.09	26 29.9	180.2	717681	14834	07	54	48	27.1
25	39 56.16	29.62	23 29.7	177.0	702847	14922	11	54	48	23.6
26	11 40 25.78	+ 29.15	+ 3 20 32.7	− 173.9	5.687925	− 15006	16.16	1.54	− 1.49	7 20.2
27	40 54.93	28.66	17 38.8	170.7	672919	15089	20	55	49	16.7
28	41 23.59	28.17	14 48.1	167.5	657830	15167	25	55	50	13.3
29	41 51.76	27.69	12 0.6	164.2	642663	15243	29	55	50	9.8
30	42 19.45	27.19	9 16.4	160.9	627420	15316	33	56	51	6.4
12 1	11 42 46.64	+ 26.68	+ 3 6 35.5	− 157.5	5.612104	− 15385	16.38	1.56	− 1.52	7 2.9
2	43 13.32	26.18	3 58.0	154.1	596719	15453	42	57	52	6 59.4
3	43 39.50	25.66	3 1 23.9	150.7	581266	15515	47	57	53	55.9
4	44 5.16	25.14	2 58 53.2	147.1	565751	15575	51	58	53	52.4
5	44 30.30	24.59	56 26.1	143.6	550176	15632	56	58	54	48.8
6	11 44 54.89	+ 24.06	+ 2 54 2.5	− 140.1	5.534544	− 15684	16.61	1.59	− 1.55	6 45.3
7	45 18.95	23.52	51 42.4	136.4	518860	15734	66	59	55	41.8
8	45 42.47	22.97	49 26.0	132.7	503126	15778	70	60	56	38.2
9	46 5.44	22.40	47 13.3	129.0	487348	15820	75	60	56	34.7
10	46 27.84	21.83	45 4.3	125.3	471523	15858	80	61	57	31.1
11	11 46 49.67	+ 21.26	+ 2 42 59.0	− 121.4	5.455670	− 15892	16.85	1.61	− 1.58	6 27.5
12	47 10.93	20.69	40 57.6	117.5	439778	15920	90	62	58	24.0
13	47 31.62	20.10	39 0.1	113.7	423858	15946	16.95	62	59	20.4
14	47 51.72	19.50	37 6.4	109.7	407912	15966	17.00	63	60	16.8
15	48 11.22	18.89	35 16.7	105.7	391946	15983	05	63	60	13.2
16	11 48 30.11	+ 18.29	+ 2 33 31.0	− 101.7	5.375963	− 15994	17.09	1.64	− 1.61	6 9.5
17	48 48.40	17.68	31 49.3	97.6	359969	16001	14	64	61	5.9
18	49 6.08	17.06	30 11.7	93.5	343968	16003	19	65	62	6 2.3
19	49 23.14	16.43	28 38.2	89.4	327965	16002	24	65	63	5 58.6
20	49 39.57	15.81	27 8.8	85.2	311963	15995	30	66	63	55.0
21	11 49 55.38	+ 15.18	+ 2 25 43.6	− 81.1	5.295968	− 15982	17.35	1.66	− 1.64	5 51.3
22	50 10.56	14.54	24 22.5	76.8	279986	15966	41	67	65	47.6
23	50 25.10	13.89	23 5.7	72.6	264020	15946	46	67	65	43.9
24	50 38.99	13.24	21 53.1	68.3	248074	15920	51	68	66	40.2
25	50 52.23	12.61	20 44.8	64.0	232154	15891	57	68	67	36.5
26	11 51 4.84	+ 11.95	+ 2 19 40.8	− 59.7	5.216263	− 15858	17.62	1.69	− 1.67	5 32.8
27	51 16.79	11.29	18 41.1	55.3	200405	15821	67	69	68	29.0
28	51 28.08	10.63	17 45.8	50.9	184584	15778	73	70	69	25.3
29	51 38.71	9.95	16 54.9	46.6	168805	15733	78	70	69	21.5
30	51 48.66	9.29	16 8.3	42.2	153073	15682	84	71	70	17.7
31	11 51 57.95	+ 8.62	+ 2 15 26.1	− 37.7	5.137391	− 15628	17.89	1.71	− 1.71	5 14.0
12 32	11 52 6.57		+ 2 14 48.4		5.121763		17.95	1.72	− 1.71	5 10.2

月日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
1 1	5 24 53.92 − 19.65	+21 49 54.9 − 7.8	8.09323 + 522	9.22	1.09	− 0.19	22 42.7
2	24 34.27 19.45	49 47.1 7.7	09845 551	21	09	18	38.5
3	24 14.82 19.24	49 39.4 7.4	10396 581	21	09	18	34.2
4	23 55.58 19.00	49 32.0 7.3	10977 611	20	09	17	30.0
5	23 36.58 18.76	49 24.7 7.0	11588 640	19	09	16	25.7
6	5 23 17.82 − 18.52	+21 49 17.7 − 6.7	8.12228 + 669	9.18	1.09	− 0.16	22 21.5
7	22 59.30 18.25	49 11.0 6.5	12897 697	17	09	15	17.3
8	22 41.05 17.99	49 4.5 6.3	13594 726	16	08	14	13.0
9	22 23.06 17.71	48 58.2 6.0	14320 754	15	08	14	8.8
10	22 5.35 17.44	48 52.2 5.7	15074 781	14	08	13	4.6
11	5 21 47.91 − 17.13	+21 48 46.5 − 5.3	8.15855 + 809	9.14	1.08	− 0.13	22 0.4
12	21 30.78 16.82	48 41.2 5.0	16664 837	13	08	12	21 56.2
13	21 13.96 16.52	48 36.2 4.7	17501 864	12	08	11	52.0
14	20 57.44 16.19	48 31.5 4.4	18365 890	11	08	11	47.8
15	20 41.25 15.86	48 27.1 4.0	19255 916	10	08	10	43.6
16	5 20 25.39 − 15.51	+21 48 23.1 − 3.7	8.20171 + 942	9.09	1.07	− 0.09	21 39.4
17	20 9.88 15.18	48 19.4 3.3	21113 968	08	07	08	35.2
18	19 54.70 14.81	48 16.1 3.0	22081 993	07	07	08	31.0
19	19 39.89 14.46	48 13.1 2.6	23074 1017	06	07	07	26.8
20	19 25.43 14.08	48 10.5 2.2	24091 1043	05	07	07	22.7
21	5 19 11.35 − 13.70	+21 48 8.3 − 1.8	8.25134 + 1067	9.04	1.07	− 0.06	21 18.5
22	18 57.65 13.33	48 6.5 1.4	26201 1091	03	07	05	14.4
23	18 44.32 12.92	48 5.1 1.0	27292 1113	01	07	05	10.2
24	18 31.40 12.52	48 4.1 0.5	28405 1137	9.00	06	04	6.1
25	18 18.88 12.11	48 3.6 − 0.1	8.29542 1159	8.99	06	03	21 1.9
26	5 18 6.77 − 11.69	+21 48 3.5 + 0.4	8.30701 + 1181	8.97	1.06	− 0.03	20 57.8
27	17 55.08 11.28	48 3.9 0.9	31882 1202	96	06	02	53.7
28	17 43.80 10.84	48 4.8 1.3	33084 1224	94	06	01	49.6
29	17 32.96 10.42	48 6.1 1.8	34308 1244	93	06	− 0.01	45.5
30	17 22.54 9.96	48 7.9 2.3	35552 1265	92	06	0.00	41.4
31	5 17 12.58 − 9.53	+21 48 10.2 + 2.8	8.36817 + 1284	8.90	1.06	+ 0.01	20 37.3
2 1	17 3.05 9.09	48 13.0 3.3	38101 1303	89	05	02	33.2
2	16 53.96 8.63	48 16.3 3.8	39404 1322	88	05	02	29.1
3	16 45.33 8.19	48 20.1 4.3	40726 1339	86	05	03	25.1
4	16 37.14 7.72	48 24.4 4.8	42065 1356	85	05	04	21.0
5	5 16 29.42 − 7.27	+21 48 29.2 + 5.3	8.43421 + 1374	8.83	1.04	+ 0.04	20 16.9
6	16 22.15 6.80	48 34.5 5.8	44795 1390	82	04	05	12.9
7	16 15.35 6.34	48 40.3 6.4	46185 1407	81	04	05	8.9
8	16 9.01 5.87	48 46.7 6.9	47592 1423	79	04	06	4.8
9	16 3.14 5.39	48 53.6 7.4	49015 1438	78	03	07	20 0.8
10	5 15 57.75 − 4.93	+21 49 1.0 + 7.9	8.50453 + 1453	8.77	1.03	+ 0.07	19 56.8
11	15 52.82 4.45	49 8.9 8.5	51906 1466	75	03	08	52.8
12	15 48.37 3.98	49 17.4 9.0	53372 1480	74	03	08	48.8
13	15 44.39 3.50	49 26.4 9.5	54852 1494	72	03	09	44.8
14	15 40.89 3.01	49 35.9 10.0	56346 1507	71	03	09	40.8
15	5 15 37.88 − 2.54	+21 49 45.9 + 10.5	8.57853 + 1518	8.69	1.03	+ 0.10	19 36.8
16	15 35.34 2.05	49 56.4 11.1	59371 1531	68	03	11	32.9
17	15 33.29 1.57	50 7.5 11.6	60902 1542	66	02	11	28.9
18	15 31.72 1.09	50 19.1 12.1	62444 1553	65	02	12	24.9
19	15 30.63 0.59	50 31.2 12.7	63997 1564	63	02	12	21.0
20	5 15 30.04 − 0.11	+21 50 43.9 + 13.2	8.65561 + 1574	8.61	1.02	+ 0.13	19 17.1
21	15 29.93 + 0.38	50 57.1 13.7	67135 1582	60	01	14	13.1
22	15 30.31 0.88	51 10.8 14.3	68717 1591	58	01	14	9.2
23	15 31.19 1.36	51 25.1 14.8	70308 1600	56	01	15	5.3
24	15 32.55 1.84	51 39.9 15.2	71908 1608	55	01	15	19 1.4
25	5 15 34.39 + 2.35	+21 51 55.1 + 15.8	8.73516 + 1615	8.53	1.01	+ 0.16	18 57.5
26	15 36.74 2.83	52 10.9 16.3	75131 1622	52	01	16	53.6
27	15 39.57 3.31	52 27.2 16.8	76753 1627	50	01	17	49.8
28	15 42.88 3.80	52 44.0 17.2	78380 1632	48	01	17	45.9
29	15 46.68 + 4.28	53 1.2 + 17.8	80012 + 1638	47	00	18	42.0
3 1	5 15 50.96	+21 53 19.0	8.81650	8.45	1.00	+ 0.18	18 38.2

月日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
3 1	5 15 50.96 + 4.76	+21 53 19.0 + 18.2	8.81650 + 1642	8.45	1.00	+ 0.18	18 38.2
2	15 55.72 5.23	53 37.2 18.8	83292 1647	44	00	19	34.3
3	16 0.95 5.73	53 56.0 19.1	84939 1651	42	1.00	19	30.5
4	16 6.68 6.19	54 15.1 19.7	86590 1653	41	0.99	20	26.7
5	16 12.87 6.67	54 34.8 20.1	88243 1656	40	99	20	22.8
6	5 16 19.54 + 7.14	+21 54 54.9 + 20.6	8.89899 + 1658	8.38	0.99	+ 0.20	18 19.0
7	16 26.68 7.61	55 15.5 20.9	91557 1659	36	99	21	15.2
8	16 34.29 8.07	55 36.4 21.4	93216 1661	35	98	21	11.4
9	16 42.36 8.54	55 57.8 21.8	94877 1661	33	98	22	7.6
10	16 50.90 8.99	56 19.6 22.1	96538 1662	31	98	22	3.8
11	5 16 59.89 + 9.46	+21 56 41.7 + 22.6	8.98200 + 1661	8.30	0.98	+ 0.22	18 0.0
12	17 9.35 9.90	57 4.3 22.9	8.99861 + 1662	28	98	23	17 56.3
13	17 19.25 10.36	57 27.2 23.3	9.01523 1660	27	98	23	52.5
14	17 29.61 10.80	57 50.5 23.7	03183 1659	25	98	24	48.8
15	17 40.41 11.24	58 14.2 24.0	04842 1657	24	98	24	45.0
16	5 17 51.65 + 11.70	+21 58 38.2 + 24.4	9.06499 + 1655	8.22	0.97	+ 0.24	17 41.3
17	18 3.35 12.14	59 2.6 24.7	08154 1652	21	97	25	37.5
18	18 15.49 12.57	59 27.3 25.1	09806 1649	19	97	25	33.8
19	18 28.06 13.00	21 59 52.4 25.3	11455 1645	18	97	26	30.1
20	18 41.06 13.44	22 0 17.7 25.6	13100 1641	16	96	26	26.4
21	5 18 54.50 + 13.88	+22 0 43.3 + 26.0	9.14741 + 1637	8.15	0.96	+ 0.26	17 22.7
22	19 8.38 14.29	1 9.3 26.2	16378 1632	13	96	26	19.0
23	19 22.67 14.71	1 35.5 26.4	18010 1626	12	96	27	15.3
24	19 37.38 15.14	2 1.9 26.7	19636 1620	10	96	27	11.6
25	19 52.52 15.57	2 28.6 27.0	21256 1614	09	96	27	7.9
26	5 20 8.09 + 15.96	+22 2 55.6 + 27.1	9.22870 + 1607	8.08	0.96	+ 0.28	17 4.3
27	20 24.05 16.36	3 22.7 27.4	24477 1600	06	96	28	17 0.6
28	20 40.41 16.77	3 50.1 27.6	26077 1592	05	95	28	16 56.9
29	20 57.18 17.16	4 17.7 27.8	27669 1584	04	95	28	53.3
30	21 14.34 17.57	4 45.5 27.9	29253 1576	02	95	29	49.7
31	5 21 31.91 + 17.93	+22 5 13.4 + 28.1	9.30829 + 1566	8.01	0.95	+ 0.29	16 46.0
4 1	21 49.84 18.33	5 41.5 28.2	32395 1558	7.99	94	29	42.4
2	22 8.17 18.70	6 9.7 28.4	33953 1548	98	94	29	38.8
3	22 26.87 19.09	6 38.1 28.5	35501 1538	97	94	29	35.2
4	22 45.96 19.43	7 6.6 28.6	37039 1528	96	94	30	31.5
5	5 23 5.39 + 19.81	+22 7 35.2 + 28.7	9.38567 + 1517	7.95	0.94	+ 0.30	16 27.9
6	23 25.20 20.17	8 3.9 28.8	40084 1506	94	94	30	24.3
7	23 45.37 20.53	8 32.7 28.8	41590 1495	92	94	30	20.7
8	24 5.90 20.86	9 1.5 28.8	43085 1483	91	94	30	17.2
9	24 26.76 21.22	9 30.3 28.9	44568 1472	89	93	30	13.6
10	5 24 47.98 + 21.56	+22 9 59.2 + 28.9	9.46040 + 1460	7.88	0.93	+ 0.31	16 10.0
11	25 9.54 21.90	10 28.1 28.9	47500 1447	87	93	31	6.4
12	25 31.44 22.22	10 57.0 29.0	48947 1434	86	93	31	16 2.9
13	25 53.66 22.56	11 26.0 28.9	50381 1421	85	93	31	15 59.3
14	26 16.22 22.89	11 54.9 28.9	51802 1408	84	93	31	55.7
15	5 26 39.11 + 23.19	+22 12 23.8 + 28.9	9.53210 + 1394	7.83	0.93	+ 0.31	15 52.2
16	27 2.30 23.52	12 52.7 28.8	54604 1380	81	93	31	48.7
17	27 25.82 23.84	13 21.5 28.8	55984 1366	80	92	31	45.1
18	27 49.66 24.14	13 50.3 28.7	57350 1351	79	92	31	41.6
19	28 13.80 24.45	14 19.0 28.6	58701 1336	78	92	31	38.1
20	5 28 38.25 + 24.75	+22 14 47.6 + 28.4	9.60037 + 1320	7.77	0.92	+ 0.31	15 34.5
21	29 3.00 25.03	15 16.0 28.3	61357 1305	76	91	32	31.0
22	29 28.03 25.32	15 44.3 28.3	62662 1289	75	91	32	27.5
23	29 53.35 25.62	16 12.6 28.1	63951 1272	74	91	32	24.0
24	30 18.97 25.89	16 40.7 27.9	65223 1256	73	91	32	20.5
25	5 30 44.86 + 26.16	+22 17 8.6 + 27.8	9.66479 + 1239	7.72	0.91	+ 0.32	15 17.0
26	31 11.02 26.42	17 36.4 27.6	67718 1222	71	91	32	13.5
27	31 37.44 26.69	18 4.0 27.4	68940 1204	70	91	32	10.0
28	32 4.13 26.96	18 31.4 27.2	70144 1187	69	91	32	6.5
29	32 31.09 27.19	18 58.6 27.0	71331 1169	68	90	31	15 3.0
30	5 32 58.28 + 27.45	+22 19 25.6 + 26.8	9.72500 + 1151	7.67	0.90	+ 0.31	14 59.6
5 1	5 33 25.73	+22 19 52.4	9.73651	7.66	0.90	+ 0.31	14 56.1

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	h m s / s	° ′ ″ / ″		″	″		h m
5 1	5 33 25.73 + 27.69	+22 19 52.4 + 26.5	9.73651 + 1133	7.66	0.90	+ 0.31	14 56.1
2	33 53.42 27.93	20 18.9 26.3	74784 1114	65	90	31	52.6
3	34 21.35 28.16	20 45.2 26.1	75898 1096	64	90	31	49.1
4	34 49.51 28.38	21 11.3 25.8	76994 1077	63	90	31	45.7
5	35 17.89 28.62	21 37.1 25.5	78071 1058	62	90	31	42.2
6	5 35 46.51 + 28.81	+22 22 2.6 + 25.1	9.79129 + 1039	7.61	0.90	+ 0.31	14 38.8
7	36 15.32 29.05	22 27.7 24.9	80168 1019	61	90	31	35.3
8	36 44.37 29.24	22 52.6 24.6	81187 1000	60	90	31	31.9
9	37 13.61 29.45	23 17.2 24.3	82187 980	59	90	31	28.4
10	37 43.06 29.64	23 41.5 23.9	83167 960	58	90	31	25.0
11	5 38 12.70 + 29.85	+22 24 5.4 + 23.6	9.84127 + 940	7.58	0.89	+ 0.31	14 21.5
12	38 42.55 30.03	24 29.0 23.3	85067 920	57	89	31	18.1
13	39 12.58 30.24	24 52.3 22.9	85987 900	56	89	30	14.7
14	39 42.82 30.41	25 15.2 22.5	86887 878	55	89	30	11.2
15	40 13.23 30.58	25 37.7 22.1	87765 858	55	89	30	7.8
16	5 40 43.81 + 30.76	+22 25 59.8 + 21.8	9.88623 + 837	7.54	0.89	+ 0.30	14 4.4
17	41 14.57 30.92	26 21.6 21.4	89460 816	53	89	30	14 1.0
18	41 45.49 31.09	26 43.0 21.0	90276 794	53	89	30	13 57.6
19	42 16.58 31.26	27 4.0 20.6	91070 773	52	89	30	54.1
20	42 47.84 31.40	27 24.6 20.2	91843 751	52	89	29	50.7
21	5 43 19.24 + 31.57	+22 27 44.8 + 19.7	9.92594 + 729	7.51	0.89	+ 0.29	13 47.3
22	43 50.81 31.70	28 4.5 19.3	93323 708	51	89	29	43.9
23	44 22.51 31.84	28 23.8 18.9	94031 685	50	88	29	40.5
24	44 54.35 31.98	28 42.7 18.5	94716 663	50	88	29	37.1
25	45 26.33 32.10	29 1.2 18.0	95379 640	49	88	28	33.7
26	5 45 58.43 + 32.22	+22 29 19.2 + 17.6	9.96019 + 617	7.48	0.88	+ 0.28	13 30.3
27	46 30.65 32.35	29 36.8 17.1	96636 595	48	88	28	26.9
28	47 3.00 32.45	29 53.9 16.6	97231 572	47	88	28	23.5
29	47 35.45 32.57	30 10.5 16.2	97803 550	47	88	27	20.1
30	48 8.02 32.67	30 26.7 15.6	98353 527	46	88	27	16.7
31	5 48 40.69 + 32.77	+22 30 42.3 + 15.2	9.98880 + 504	7.46	0.88	+ 0.27	13 13.4
6 1	49 13.46 32.87	30 57.5 14.7	99384 481	46	88	27	10.0
2	49 46.33 32.96	31 12.2 14.3	9.99865 458	46	88	26	6.6
3	50 19.29 33.03	31 26.5 13.7	10.00323 435	45	88	26	13 3.2
4	50 52.32 33.12	31 40.2 13.2	00758 411	45	88	26	12 59.8
5	5 51 25.44 + 33.20	+22 31 53.4 + 12.7	10.01169 + 388	7.45	0.88	+ 0.26	12 56.4
6	51 58.64 33.26	32 6.1 12.3	01557 366	45	88	25	53.0
7	52 31.90 33.34	32 18.4 11.6	01923 341	44	88	25	49.7
8	53 5.24 33.40	32 30.0 11.2	02264 319	44	88	25	46.3
9	53 38.64 33.46	32 41.2 10.7	02583 295	44	88	24	42.9
10	5 54 12.10 + 33.50	+22 32 51.9 + 10.1	10.02878 + 272	7.44	0.88	+ 0.24	12 39.5
11	54 45.60 33.56	33 2.0 9.6	03150 248	43	88	24	36.2
12	55 19.16 33.62	33 11.6 9.1	03398 225	43	88	23	32.8
13	55 52.78 33.65	33 20.7 8.6	03623 201	43	88	23	29.4
14	56 26.43 33.69	33 29.3 8.0	03824 177	43	88	23	26.0
15	5 57 0.12 + 33.74	+22 33 37.3 + 7.5	10.04001 + 153	7.42	0.88	+ 0.22	12 22.7
16	57 33.86 33.76	33 44.8 7.0	04154 130	42	88	22	19.3
17	58 7.62 33.78	33 51.8 6.5	04284 106	42	88	22	15.9
18	58 41.40 33.80	33 58.3 5.9	04390 82	42	88	21	12.5
19	59 15.20 33.81	34 4.2 5.4	04472 58	42	88	21	9.2
20	5 59 49.01 + 33.82	+22 34 9.6 + 4.9	10.04530 + 34	7.42	0.88	+ 0.21	12 5.8
21	6 0 22.83 33.83	34 14.5 4.4	04564 + 10	42	88	20	12 2.4
22	0 56.66 33.83	34 18.9 3.8	04574 − 14	42	88	21	11 59.1
23	1 30.49 33.83	34 22.7 3.3	04560 38	42	88	21	55.7
24	2 4.32 33.80	34 26.0 2.8	04522 62	42	88	21	52.3
25	6 2 38.12 + 33.80	+22 34 28.8 + 2.2	10.04460 − 86	7.42	0.88	+ 0.21	11 48.9
26	3 11.92 33.77	34 31.0 1.7	04374 109	42	88	22	45.6
27	3 45.69 33.75	34 32.7 1.2	04265 134	43	88	22	42.2
28	4 19.44 33.71	34 33.9 0.6	04131 157	43	88	23	38.8
29	4 53.15 33.69	34 34.5 + 0.1	03974 181	43	88	23	35.5
30	6 5 26.84 + 33.64	+22 34 34.6 − 0.4	10.03793 − 204	7.43	0.88	+ 0.23	11 32.1
7 1	6 6 0.48	+22 34 34.2	10.03589	7.43	0.88	+ 0.24	11 28.7

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	h m s / s	° ′ ″ / ″		″	″		h m
7 1	6 6 0.48 + 33.59	+22 34 34.2 − 0.9	10.03589 − 228	7.43	0.88	+ 0.24	11 23.7
2	6 34.07 33.56	34 33.3 1.4	03361 252	43	88	24	25.3
3	7 7.63 33.50	34 31.9 2.0	03109 275	43	88	25	22.0
4	7 41.13 33.44	34 29.9 2.5	02834 298	43	88	25	18.6
5	8 14.57 33.38	34 27.4 2.9	02536 321	44	88	25	15.2
6	6 8 47.95 + 33.32	+22 34 24.5 − 3.4	10.02215 − 345	7.44	0.88	+ 0.26	11 11.8
7	9 21.27 33.26	34 21.1 4.0	01870 368	44	88	26	8.5
8	9 54.53 33.18	34 17.1 4.4	01502 391	45	88	26	5.1
9	10 27.71 33.09	34 12.7 4.9	01111 414	45	88	27	11 1.7
10	11 0.80 33.02	34 7.8 5.4	00697 437	46	88	27	10 58.3
11	6 11 33.82 + 32.94	+22 34 2.4 − 5.9	10.00260 − 460	7.46	0.88	+ 0.27	10 54.9
12	12 6.76 32.84	33 56.5 6.4	9.99800 483	46	88	28	51.5
13	12 39.60 32.75	33 50.1 6.8	99317 505	47	88	28	48.1
14	13 12.35 32.66	33 43.3 7.3	98812 528	47	88	28	44.8
15	13 45.01 32.55	33 36.0 7.7	98284 552	47	88	29	41.4
16	6 14 17.56 + 32.45	+22 33 28.3 − 8.2	9.97732 − 574	7.48	0.88	+ 0.29	10 38.0
17	14 50.01 32.33	33 20.1 8.6	97158 596	48	88	29	34.6
18	15 22.34 32.20	33 11.5 9.0	96562 619	49	88	29	31.2
19	15 54.54 32.09	33 2.5 9.5	95943 641	49	88	30	27.8
20	16 26.63 31.94	32 53.0 9.9	95302 664	50	88	30	24.4
21	6 16 58.57 + 31.82	+22 32 43.1 − 10.4	9.94638 − 685	7.50	0.89	+ 0.30	10 21.0
22	17 30.39 31.68	32 32.7 10.7	93953 708	51	89	31	17.6
23	18 2.07 31.53	32 22.0 11.1	93245 729	51	89	31	14.2
24	18 33.60 31.39	32 10.9 11.6	92516 751	52	89	31	10.8
25	19 4.99 31.22	31 59.3 11.8	91765 772	52	89	31	7.3
26	6 19 36.21 + 31.08	+22 31 47.5 − 12.3	9.90993 − 794	7.53	0.89	+ 0.32	10 3.9
27	20 7.29 30.92	31 35.2 12.7	90199 815	53	89	32	10 0.5
28	20 38.21 30.73	31 22.5 13.0	89384 836	54	89	32	9 57.1
29	21 8.94 30.57	31 9.5 13.3	88548 856	55	89	32	53.7
30	21 39.51 30.39	30 56.2 13.7	87692 877	55	89	32	50.2
31	6 22 9.90 + 30.22	+22 30 42.5 − 14.0	9.86815 − 897	7.56	0.89	+ 0.32	9 46.8
8 1	22 40.12 30.02	30 28.5 14.4	85918 917	57	89	33	43.4
2	23 10.14 29.84	30 14.1 14.6	85001 938	58	89	33	39.9
3	23 39.98 29.64	29 59.5 14.9	84063 957	58	89	33	36.5
4	24 9.62 29.45	29 44.6 15.2	83106 977	59	89	33	33.1
5	6 24 39.07 + 29.23	+22 29 29.4 − 15.6	9.82129 − 996	7.60	0.89	+ 0.33	9 29.6
6	25 8.30 29.04	29 13.8 15.7	81133 1015	60	90	33	26.2
7	25 37.34 28.83	28 58.1 16.1	80118 1035	61	90	34	22.7
8	26 6.17 28.62	28 42.0 16.3	79083 1054	61	90	34	19.3
9	26 34.79 28.40	28 25.7 16.5	78029 1072	62	90	34	15.8
10	6 27 3.19 + 28.18	+22 28 9.2 − 16.7	9.76957 − 1091	7.63	0.90	+ 0.34	9 12.3
11	27 31.37 27.94	27 52.5 17.0	75866 1110	64	90	34	8.9
12	27 59.31 27.71	27 35.5 17.2	74756 1128	65	90	34	5.4
13	28 27.02 27.47	27 18.3 17.3	73628 1146	66	90	34	9 1.9
14	28 54.49 27.24	27 1.0 17.5	72482 1164	67	91	34	8 58.4
15	6 29 21.73 + 26.97	+22 26 43.5 − 17.7	9.71318 − 1181	7.67	0.91	+ 0.34	8 55.0
16	29 48.70 26.72	26 25.8 17.9	70137 1199	68	91	34	51.5
17	30 15.42 26.46	26 7.9 18.0	68938 1216	69	91	35	48.0
18	30 41.88 26.19	25 49.9 18.1	67722 1233	71	91	35	44.5
19	31 8.07 25.94	25 31.8 18.3	66489 1249	72	91	35	41.0
20	6 31 34.01 + 25.65	+22 25 13.5 − 18.3	9.65240 − 1265	7.73	0.91	+ 0.35	8 37.5
21	31 59.66 25.37	24 55.2 18.5	63975 1282	74	91	35	34.0
22	32 25.03 25.09	24 36.7 18.4	62693 1296	75	92	35	30.5
23	32 50.12 24.80	24 18.3 18.6	61397 1313	75	92	35	27.0
24	33 14.92 24.51	23 59.7 18.7	60084 1328	76	92	35	23.4
25	6 33 39.43 + 24.21	+22 23 41.0 − 18.7	9.58756 − 1343	7.77	0.92	+ 0.35	8 19.9
26	34 3.64 23.90	23 22.3 18.7	57413 1357	79	92	35	16.4
27	34 27.54 23.60	23 3.6 18.7	56056 1371	80	92	35	12.8
28	34 51.14 23.29	22 44.9 18.7	54685 1385	81	92	35	9.3
29	35 14.43 22.97	22 26.2 18.8	53300 1399	82	92	35	5.8
30	6 35 37.40 + 22.65	+22 22 7.4 − 18.6	9.51901 − 1411	7.83	0.93	+ 0.35	8 2.2
31	36 0.05 + 22.33	21 48.8 − 18.7	50490 − 1425	84	93	35	7 58.6
9 1	6 36 22.38	+22 21 30.1	9.49065	7.85	0.93	+ 0.35	7 55.1

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地視差	平均	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″			h m
9	1	6 36 22.38	+ 22.02	+22 21 30.1	− 18.6	9.49065	− 1437	7.85	0.93	+ 0.35	7	55.1
	2	36 44.40	21.67	21 11.5	18.5	47628	1449	87	93	34		51.5
	3	37 6.07	21.34	20 53.0	18.4	46179	1462	88	93	34		47.9
	4	37 27.41	21.01	20 34.6	18.4	44717	1473	90	93	34		44.4
	5	37 48.42	20.66	20 16.2	18.2	43244	1485	91	93	34		40.8
	6	6 38 9.08	+ 20.31	+22 19 58.0	− 18.2	9.41759	− 1496	7.92	0.93	+ 0.34	7	37.2
	7	38 29.39	19.96	19 39.8	17.9	40263	1507	93	94	34		33.6
	8	38 49.35	19.60	19 21.9	17.9	38756	1518	94	94	34		30.0
	9	39 8.95	19.24	19 4.0	17.7	37238	1528	95	94	33		26.4
	10	39 28.19	18.87	18 46.3	17.5	35710	1537	97	94	33		22.7
	11	6 39 47.06	+ 18.51	+22 18 28.8	− 17.3	9.34173	− 1547	7.98	0.95	+ 0.33	7	19.1
	12	40 5.57	18.12	18 11.5	17.1	32626	1557	8.00	95	33		15.5
	13	40 23.69	17.74	17 54.4	16.9	31069	1565	01	95	33		11.9
	14	40 41.43	17.36	17 37.5	16.7	29504	1574	02	95	33		8.2
	15	40 58.79	16.96	17 20.8	16.4	27930	1581	04	95	32		4.6
	16	6 41 15.75	+ 16.58	+22 17 4.4	− 16.2	9.26349	− 1590	8.05	0.95	+ 0.32	7	0.9
	17	41 32.33	16.18	16 48.2	15.9	24759	1597	06	95	32	6	57.3
	18	41 48.51	15.77	16 32.3	15.7	23162	1603	08	95	32		53.6
	19	42 4.28	15.36	16 16.6	15.3	21559	1609	09	96	31		49.9
	20	42 19.64	14.97	16 1.3	15.0	19950	1615	11	96	31		46.3
	21	6 42 34.61	+ 14.55	+22 15 46.3	− 14.7	9.18335	− 1621	8.12	0.96	+ 0.31	6	42.6
	22	42 49.16	14.12	15 31.6	14.4	16714	1626	14	96	31		38.9
	23	43 3.28	13.70	15 17.2	14.0	15088	1630	15	96	30		35.2
	24	43 16.98	13.29	15 3.2	13.7	13458	1635	17	96	30		31.5
	25	43 30.27	12.85	14 49.5	13.3	11823	1639	18	96	30		27.8
	26	6 43 43.12	+ 12.42	+22 14 36.2	− 13.0	9.10184	− 1641	8.19	0.96	+ 0.29	6	24.0
	27	43 55.54	11.99	14 23.2	12.5	08543	1645	21	97	29		20.3
	28	44 7.53	11.55	14 10.7	12.2	06898	1647	22	97	29		16.6
	29	44 19.08	11.12	13 58.5	11.7	05251	1649	23	97	28		12.8
	30	44 30.20	10.68	13 46.8	11.4	03602	1651	25	97	28		9.1
10	1	6 44 40.88	+ 10.22	+22 13 35.4	− 10.8	9.01951	− 1652	8.27	0.98	+ 0.28	6	5.3
	2	44 51.10	9.79	13 24.6	10.5	9.00299	1653	28	98	27	6	1.6
	3	45 0.89	9.35	13 14.1	10.0	8.98646	1653	30	98	27	5	57.8
	4	45 10.24	8.88	13 4.1	9.6	96993	1653	32	98	27		54.0
	5	45 19.12	8.43	12 54.5	9.0	95340	1652	33	99	26		50.2
	6	6 45 27.55	+ 7.97	+22 12 45.5	− 8.6	8.93688	− 1652	8.35	0.99	+ 0.26	5	46.4
	7	45 35.52	7.52	12 36.9	8.1	92036	1650	36	99	25		42.6
	8	45 43.04	7.05	12 28.8	7.6	90386	1649	38	99	25		38.8
	9	45 50.09	6.57	12 21.2	7.1	88737	1647	40	99	25		35.0
	10	45 56.66	6.12	12 14.1	6.6	87090	1644	41	99	25		31.2
	11	6 46 2.78	+ 5.64	+22 12 7.5	− 6.1	8.85446	− 1641	8.43	0.99	+ 0.24	5	27.3
	12	46 8.42	5.16	12 1.4	5.5	83805	1636	44	0.99	23		23.5
	13	46 13.58	4.68	11 55.9	5.0	82169	1632	46	1.00	23		19.7
	14	46 18.26	4.22	11 50.9	4.5	80537	1628	47	00	22		15.8
	15	46 22.48	3.74	11 46.4	3.9	78909	1623	48	00	22		11.9
	16	6 46 26.22	+ 3.26	+22 11 42.5	− 3.4	8.77286	− 1617	8.50	1.00	+ 0.21	5	8.1
	17	46 29.48	2.77	11 39.1	2.8	75669	1611	52	01	21		4.2
	18	46 32.25	2.27	11 36.3	2.3	74058	1604	53	01	20	5	0.3
	19	46 34.52	1.80	11 34.0	1.7	72454	1596	55	01	20	4	56.4
	20	46 36.32	1.32	11 32.3	1.2	70858	1589	57	01	19		52.5
	21	6 46 37.64	+ 0.83	+22 11 31.1	− 0.5	8.69269	− 1581	8.58	1.01	+ 0.19	4	48.6
	22	46 38.47	+ 0.35	11 30.6	0.0	67688	1571	60	01	18		44.7
	23	46 38.82	− 0.12	11 30.6	0.6	66117	1563	61	01	18		40.7
	24	46 38.70	0.62	11 31.2	1.1	64554	1552	63	01	17		36.8
	25	46 38.08	1.09	11 32.3	1.8	63002	1541	64	02	16		32.9
	26	6 46 36.99	− 1.58	+22 11 34.1	+ 2.3	8.61461	− 1531	8.66	1.02	+ 0.16	4	28.9
	27	46 35.41	2.06	11 36.4	2.9	59930	1520	67	02	15		25.0
	28	46 33.35	2.54	11 39.3	3.5	58410	1507	69	02	15		21.0
	29	46 30.81	3.01	11 42.8	4.1	56903	1496	70	03	14		17.0
	30	46 27.80	3.49	11 46.9	4.6	55407	1483	72	03	13		13.0
	31	6 46 24.31	− 3.96	+22 11 51.5	+ 5.2	8.53924	− 1470	8.73	1.03	+ 0.13	4	9.0
11	1	6 46 20.35		+22 11 56.7		8.52454		8.75	1.03	+ 0.12	4	5.0

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		h m s	s	° ′ ″	″			″	″			h m
11	1	6 46 20.35	− 4.44	+22 11 56.7	+ 5.7	8.52454	− 1456	8.75	1.03	+ 0.12		4 5.0
	2	46 15.91	4.90	12 2.4	6.4	50998	1442	76	04	12		4 1.0
	3	46 11.01	5.38	12 8.8	6.9	49556	1428	78	04	11		3 57.0
	4	46 5.63	5.84	12 15.7	7.5	48128	1413	79	04	10		53.0
	5	45 59.79	6.32	12 23.2	8.1	46715	1396	81	04	10		49.0
	6	6 45 53.47	− 6.77	+22 12 31.3	+ 8.6	8.45319	− 1381	8.82	1.04	+ 0.09	3	44.9
	7	45 46.70	7.25	12 39.9	9.2	43938	1365	84	04	08		40.9
	8	45 39.45	7.70	12 49.1	9.7	42573	1347	85	04	08		36.8
	9	45 31.75	8.16	12 58.8	10.3	41226	1331	86	04	07		32.8
	10	45 23.59	8.60	13 9.1	10.7	39895	1313	88	05	06		28.7
	11	6 45 14.99	− 9.06	+22 13 19.8	+ 11.3	8.38582	− 1293	8.89	1.05	+ 0.06	3	24.6
	12	45 5.93	9.51	13 31.1	11.8	37289	1275	90	05	05		20.6
	13	44 56.42	9.95	13 42.9	12.4	36014	1255	91	05	04		16.5
	14	44 46.47	10.39	13 55.3	12.8	34759	1235	93	06	04		12.4
	15	44 36.08	10.81	14 8.1	13.3	33524	1215	94	06	03		8.2
	16	6 44 25.27	− 11.24	+22 14 21.4	+ 13.8	8.32309	− 1194	8.95	1.06	+ 0.02	3	4.1
	17	44 14.03	11.66	14 35.2	14.3	31115	1172	97	06	02	3	0.0
	18	44 2.37	12.08	14 49.5	14.7	29943	1151	8.98	06	+ 0.01	2	55.9
	19	43 50.29	12.49	15 4.2	15.2	28792	1128	9.00	06	0.00		51.8
	20	43 37.80	12.88	15 19.4	15.6	27664	1106	01	06	0.00		47.6
	21	6 43 24.92	− 13.28	+22 15 35.0	+ 16.1	8.26558	− 1082	9.02	1.06	− 0.01	2	43.5
	22	43 11.64	13.67	15 51.1	16.5	25476	1058	04	07	02		39.3
	23	42 57.97	14.04	16 7.6	16.9	24418	1035	05	07	02		35.2
	24	42 43.93	14.41	16 24.5	17.3	23383	1011	06	07	03		31.0
	25	42 29.52	14.79	16 41.8	17.6	22372	985	07	07	04		26.8
	26	6 42 14.73	− 15.14	+22 16 59.4	+ 18.1	8.21387	− 961	9.08	1.08	− 0.04	2	22.6
	27	41 59.59	15.48	17 17.5	18.4	20426	935	09	08	05		18.5
	28	41 44.11	15.83	17 35.9	18.8	19491	909	10	08	06		14.3
	29	41 28.28	16.16	17 54.7	19.1	18582	883	11	08	07		10.1
	30	41 12.12	16.48	18 13.8	19.4	17699	857	12	08	07		5.9
12	1	6 40 55.64	− 16.80	+22 18 33.2	+ 19.8	8.16842	− 832	9.13	1.08	− 0.08	2	1.7
	2	40 38.84	17.10	18 53.0	20.0	16010	804	14	08	09	1	57.5
	3	40 21.74	17.41	19 13.0	20.3	15206	777	15	08	10		53.3
	4	40 4.33	17.70	19 33.3	20.5	14429	748	16	08	10		49.0
	5	39 46.63	17.99	19 53.8	20.8	13681	721	16	08	11		44.8
	6	6 39 28.64	− 18.26	+22 20 14.6	+ 21.0	8.12960	− 693	9.17	1.08	− 0.12	1	40.6
	7	39 10.38	18.52	20 35.6	21.2	12267	664	18	08	12		36.3
	8	38 51.86	18.77	20 56.8	21.5	11603	634	19	09	13		32.1
	9	38 33.09	19.01	21 18.3	21.6	10969	606	20	09	14		27.8
	10	38 14.08	19.26	21 39.9	21.8	10363	576	21	09	14		23.6
	11	6 37 54.82	− 19.46	+22 22 1.7	+ 22.0	8.09787	− 546	9.22	1.09	− 0.15	1	19.4
	12	37 35.36	19.68	22 23.7	22.1	09241	517	22	09	16		15.1
	13	37 15.68	19.87	22 45.8	22.3	08724	486	23	09	16		10.9
	14	36 55.81	20.07	23 8.1	22.4	08238	455	23	09	17		6.6
	15	36 35.74	20.25	23 30.5	22.5	07783	425	24	09	18	1	2.3
	16	6 36 15.49	− 20.40	+22 23 53.0	+ 22.5	8.07358	− 394	9.24	1.09	− 0.18	0	58.1
	17	35 55.09	20.55	24 15.5	22.6	06964	363	25	09	19		53.8
	18	35 34.54	20.69	24 38.1	22.7	06601	332	25	09	20		49.5
	19	35 13.85	20.83	25 0.8	22.8	06269	301	25	09	20		45.2
	20	34 53.02	20.92	25 23.6	22.8	05968	269	26	09	21		41.0
	21	6 34 32.10	− 21.03	+22 25 46.4	+ 22.8	8.05699	− 237	9.26	1.09	− 0.21	0	36.7
	22	34 11.07	21.12	26 9.2	22.9	05462	206	26	09	22		32.4
	23	33 49.95	21.19	26 32.1	22.8	05256	174	26	09	23		28.1
	24	33 28.76	21.26	26 54.9	22.8	05082	142	27	09	23		23.8
	25	33 7.50	21.31	27 17.7	22.8	04940	111	27	09	24		19.5
	26	6 32 46.19	− 21.34	+22 27 40.5	+ 22.8	8.04829	− 79	9.27	1.09	− 0.24	0	15.3
	27	32 24.85	21.37	28 3.3	22.7	04750	47	27	09	25		11.0
	28	32 3.48	21.38	28 26.0	22.6	04703	15	27	09	25		6.7
	29	31 42.10	21.40	28 48.6	22.6	04688	+ 16	27	09	26		2.4
	30	31 20.70	21.38	29 11.2	22.5	04704	48			26	23	58.1
											23	53.8
	31	6 30 59.32	− 21.36	+22 29 33.7	+ 22.4	8.04752	+ 79	9.27	1.09	− 0.25	23	49.5
12	32	6 30 37.96		+22 29 56.1		8.04831		9.26	1.09	− 0.25	23	45.3

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
1 1	4 14 42.70	− 8.22	+21 8 49.4	− 19.8	18.53297	+ 956	1.85	0.47	21 32.9
2	14 34.48	8.06	8 29.6	19.5	54253	980	85	47	28.9
3	14 26.42	7.91	8 10.1	19.1	55233	1006	85	47	24.8
4	14 18.51	7.80	7 51.0	18.8	56239	1036	85	47	20.7
5	14 10.71	7.64	7 32.2	18.5	57275	1059	85	47	16.7
6	4 14 3.07	− 7.49	+21 7 13.7	− 18.1	18.58334	+ 1084	1.85	0.47	21 12.6
7	13 55.58	7.33	6 55.6	17.7	59418	1109	85	47	8.6
8	13 48.25	7.17	6 37.9	17.3	60527	1132	85	47	4.5
9	13 41.08	7.00	6 20.6	16.9	61659	1154	85	47	21 0.5
10	13 34.08	6.82	6 3.7	16.5	62813	1176	84	47	20 56.4
11	4 13 27.26	− 6.65	+21 5 47.2	− 16.0	18.63989	+ 1197	1.84	0.47	20 52.4
12	13 20.61	6.47	5 31.2	15.6	65186	1220	84	47	48.3
13	13 14.14	6.30	5 15.6	15.1	66406	1242	84	47	44.3
14	13 7.84	6.11	5 0.5	14.7	67648	1264	84	47	40.3
15	13 1.73	5.91	4 45.8	14.2	68912	1283	84	47	36.2
16	4 12 55.82	− 5.73	+21 4 31.6	− 13.8	18.70195	+ 1303	1.84	0.47	20 32.2
17	12 50.09	5.55	4 17.8	13.3	71498	1323	83	47	28.2
18	12 44.54	5.35	4 4.5	12.8	72821	1343	83	47	24.2
19	12 39.19	5.16	3 51.7	12.4	74164	1361	83	47	20.1
20	12 34.03	4.97	3 39.3	11.8	75525	1379	83	47	16.1
21	4 12 29.06	− 4.76	+21 3 27.5	− 11.4	18.76904	+ 1396	1.83	0.47	20 12.1
22	12 24.30	4.57	3 16.1	10.8	78300	1413	82	47	8.1
23	12 19.73	4.36	3 5.3	10.4	79713	1431	82	47	4.1
24	12 15.37	4.15	2 54.9	9.8	81144	1448	82	47	20 0.1
25	12 11.22	3.94	2 45.1	9.3	82592	1463	82	47	19 56.1
26	4 12 7.28	− 3.73	+21 2 35.8	− 8.7	18.84055	+ 1477	1.82	0.47	19 52.1
27	12 3.55	3.52	2 27.1	8.2	85532	1493	82	47	48.1
28	12 0.03	3.31	2 18.9	7.7	87025	1508	82	47	44.1
29	11 56.72	3.10	2 11.2	7.1	88533	1521	82	47	40.2
30	11 53.62	2.89	2 4.1	6.6	90054	1534	81	46	36.2
31	4 11 50.73	− 2.67	+21 1 57.5	− 6.0	18.91588	+ 1546	1.81	0.46	19 32.2
2 1	11 48.06	2.45	1 51.5	5.5	93134	1559	81	46	28.2
2	11 45.61	2.23	1 46.0	4.9	94693	1572	81	46	24.3
3	11 43.38	2.00	1 41.1	4.3	96265	1583	81	46	20.3
4	11 41.38	1.79	1 36.8	3.7	97848	1593	81	46	16.3
5	4 11 39.59	− 1.56	+21 1 33.1	− 3.2	18.99441	+ 1603	1.81	0.46	19 12.4
6	11 38.03	1.33	1 29.9	2.5	19.01044	1613	80	46	8.4
7	11 36.70	1.12	1 27.4	2.0	02657	1623	80	46	4.5
8	11 35.58	0.90	1 25.4	1.4	04280	1631	80	46	19 0.5
9	11 34.68	0.68	1 24.0	0.9	05911	1639	80	46	18 56.6
10	4 11 34.00	− 0.45	+21 1 23.1	− 0.3	19.07550	+ 1646	1.80	0.46	18 52.6
11	11 33.55	− 0.23	1 22.8	+ 0.3	09196	1654	79	46	48.7
12	11 33.32	0.00	1 23.1	0.9	10850	1661	79	46	44.8
13	11 33.32	+ 0.22	1 24.0	1.4	12511	1667	79	46	40.8
14	11 33.54	0.45	1 25.4	2.0	14178	1673	79	46	36.9
15	4 11 33.99	+ 0.67	+21 1 27.4	+ 2.6	19.15851	+ 1677	1.79	0.46	18 33.0
16	11 34.66	0.89	1 30.0	3.2	17528	1681	79	46	29.1
17	11 35.55	1.12	1 33.2	3.7	19209	1687	79	46	25.2
18	11 36.67	1.34	1 36.9	4.3	20896	1690	79	46	21.2
19	11 38.01	1.56	1 41.2	4.8	22586	1692	78	46	17.3
20	4 11 39.57	+ 1.79	+21 1 46.0	+ 5.5	19.24278	+ 1695	1.78	0.46	18 13.4
21	11 41.36	2.01	1 51.5	6.0	25973	1696	78	46	9.5
22	11 43.37	2.23	1 57.5	6.6	27669	1699	78	46	5.6
23	11 45.60	2.47	2 4.1	7.3	29368	1700	78	46	18 1.7
24	11 48.07	2.68	2 11.4	7.8	31068	1699	78	46	17 57.9
25	4 11 50.75	+ 2.91	+21 2 19.2	+ 8.4	19.32767	+ 1699	1.78	0.46	17 54.0
26	11 53.66	3.14	2 27.6	8.9	34466	1698	77	46	50.1
27	11 56.80	3.35	2 36.5	9.5	36164	1698	77	46	46.2
28	12 0.15	3.57	2 46.0	10.0	37862	1696	77	46	42.3
29	12 3.72	+ 3.78	2 56.0	+ 10.6	39558	+ 1694	77	45	38.5
3 1	4 12 7.50		+21 3 6.6		19.41252		1.77	0.45	17 34.6

12月3日画ニ於ケル等級……5.89

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
3 1	4 12 7.50	+ 4.00	+21 3 6.6	+ 11.1	19.41252	+ 1690	1.77	0.45	17 34.6
2	12 11.50	4.22	3 17.7	11.7	42942	1688	76	45	30.7
3	12 15.72	4.43	3 29.4	12.2	44630	1684	76	45	26.9
4	12 20.15	4.65	3 41.6	12.7	46314	1679	76	45	23.0
5	12 24.80	4.86	3 54.3	13.3	47993	1674	76	45	19.2
6	4 12 29.66	+ 5.08	+21 4 7.6	+ 13.8	19.49667	+ 1668	1.76	0.45	17 15.3
7	12 34.74	5.28	4 21.4	14.3	51335	1663	76	45	11.5
8	12 40.02	5.49	4 35.7	14.8	52998	1657	76	45	7.6
9	12 45.51	5.70	4 50.5	15.3	54655	1651	76	45	3.8
10	12 51.21	5.90	5 5.8	15.8	56306	1643	75	45	17 0.0
11	4 12 57.11	+ 6.10	+21 5 21.6	+ 16.4	19.57949	+ 1636	1.75	0.45	16 56.1
12	13 3.21	6.31	5 38.0	16.8	59585	1627	75	45	52.3
13	13 9.52	6.51	5 54.8	17.3	61212	1620	75	45	48.5
14	13 16.03	6.71	6 12.1	17.8	62832	1611	75	45	44.7
15	13 22.74	6.91	6 29.9	18.4	64443	1601	75	45	40.8
16	4 13 29.65	+ 7.11	+21 6 48.3	+ 18.8	19.66044	+ 1592	1.75	0.45	16 37.0
17	13 36.76	7.30	7 7.1	19.2	67636	1581	74	45	33.2
18	13 44.06	7.50	7 26.3	19.8	69217	1571	74	45	29.4
19	13 51.56	7.69	7 46.1	20.2	70788	1560	74	45	25.6
20	13 59.25	7.87	8 6.3	20.6	72348	1549	74	44	21.8
21	4 14 7.12	+ 8.06	+21 8 26.9	+ 21.1	19.73897	+ 1536	1.74	0.44	16 18.0
22	14 15.18	8.24	8 48.0	21.5	75433	1523	73	44	14.2
23	14 23.42	8.43	9 9.5	22.0	76956	1512	73	44	10.4
24	14 31.85	8.62	9 31.5	22.4	78468	1497	73	44	6.6
25	14 40.47	8.80	9 53.9	22.8	79965	1483	73	44	16 2.8
26	4 14 49.27	+ 8.97	+21 10 16.7	+ 23.3	19.81448	+ 1468	1.73	0.44	15 59.1
27	14 58.24	9.15	10 40.0	23.6	82916	1454	73	44	55.3
28	15 7.39	9.33	11 3.6	24.0	84370	1440	73	44	51.5
29	15 16.72	9.49	11 27.6	24.4	85810	1425	73	44	47.7
30	15 26.21	9.66	11 52.0	24.8	87235	1409	72	44	43.9
31	4 15 35.87	+ 9.82	+21 12 16.8	+ 25.1	19.88644	+ 1393	1.72	0.44	15 40.2
4 1	15 45.69	9.99	12 41.9	25.5	90037	1377	72	44	36.4
2	15 55.68	10.15	13 7.4	25.9	91414	1360	72	44	32.6
3	16 5.83	10.31	13 33.3	26.3	92774	1342	72	44	28.9
4	16 16.14	10.46	13 59.6	26.5	94116	1325	72	44	25.1
5	4 16 26.60	+ 10.62	+21 14 26.1	+ 26.9	19.95441	+ 1307	1.72	0.44	15 21.4
6	16 37.22	10.76	14 53.0	27.3	96748	1289	72	44	17.6
7	16 47.98	10.92	15 20.3	27.5	98037	1271	72	44	13.9
8	16 58.90	11.07	15 47.8	27.9	19.99308	1253	72	44	10.1
9	17 9.97	11.20	16 15.7	28.1	20.00561	1234	71	44	6.4
10	4 17 21.17	+ 11.35	+21 16 43.8	+ 28.4	20.01795	+ 1214	1.71	0.44	15 2.6
11	17 32.52	11.48	17 12.2	28.7	03009	1196	71	44	14 58.9
12	17 44.00	11.63	17 40.9	29.0	04205	1176	71	44	55.1
13	17 55.63	11.77	18 9.9	29.2	05381	1157	71	44	51.4
14	18 7.40	11.89	18 39.1	29.5	06538	1136	71	44	47.7
15	4 18 19.29	+ 12.02	+21 19 8.6	+ 29.8	20.07674	+ 1115	1.71	0.44	14 43.9
16	18 31.31	12.15	19 38.4	30.0	08789	1095	71	44	40.2
17	18 43.46	12.28	20 8.4	30.3	09884	1074	71	44	36.5
18	18 55.74	12.40	20 38.7	30.5	10958	1053	71	44	32.7
19	19 8.14	12.51	21 9.2	30.7	12011	1031	70	44	29.0
20	4 19 20.65	+ 12.63	+21 21 39.9	+ 30.9	20.13042	+ 1009	1.70	0.44	14 25.3
21	19 33.28	12.75	22 10.8	31.1	14051	987	70	44	21.6
22	19 46.03	12.86	22 41.9	31.4	15038	964	70	44	17.9
23	19 58.89	12.97	23 13.3	31.5	16002	940	70	44	14.1
24	20 11.86	13.08	23 44.8	31.7	16942	916	70	44	10.4
25	4 20 24.94	+ 13.17	+21 24 16.5	+ 31.9	20.17858	+ 893	1.70	0.44	14 6.7
26	20 38.11	13.28	24 48.4	32.1	18751	869	70	44	14 3.0
27	20 51.39	13.38	25 20.5	32.2	19620	846	70	44	13 59.3
28	21 4.77	13.47	25 52.7	32.4	20466	823	70	44	55.6
29	21 18.24	13.56	26 25.1	32.5	21289	798	69	43	51.9
30	4 21 31.80		+21 26 57.6		20.22087		1.69	0.43	13 48.2
5 1	4 21 45.45	+ 13.65	+21 27 30.3	+ 32.7	20.22862	+ 775	1.69	0.43	13 44.5

12月3日画ニ於ケル等級……5.89

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
5 1	4 21 45.45	+ 13.74	+21 27 30.3	+ 32.7	20.22862	+ 750	1.69	0.43	13 44.5
2	21 59.19	13.82	28 3.0	32.9	23612	726	69	43	40.8
3	22 13.01	13.90	28 35.9	33.0	24338	701	69	43	37.1
4	22 26.91	13.97	29 8.9	33.0	25039	676	69	43	33.4
5	22 40.88	14.05	29 41.9	33.2	25715	652	69	43	29.6
6	4 22 54.93	+ 14.12	+21 30 15.1	+ 33.2	20.26367	+ 626	1.69	0.43	13 25.9
7	23 9.05	14.19	30 48.3	33.3	26993	601	69	43	22.3
8	23 23.24	14.26	31 21.6	33.4	27594	576	69	43	18.6
9	23 37.50	14.32	31 55.0	33.4	28170	551	69	43	14.9
10	23 51.82	14.37	32 28.4	33.5	28721	525	69	43	11.2
11	4 24 6.19	+ 14.44	+21 33 1.9	+ 33.5	20.29246	+ 500	1.69	0.43	13 7.5
12	24 20.63	14.50	33 35.4	33.6	29746	474	69	43	3.8
13	24 35.13	14.55	34 9.0	33.6	30220	447	69	43	13 0.1
14	24 49.68	14.60	34 42.6	33.7	30667	422	69	43	12 56.4
15	25 4.28	14.65	35 16.3	33.6	31089	395	69	43	52.7
16	4 25 18.93	+ 14.69	+21 35 49.9	+ 33.7	20.31484	+ 368	1.69	0.43	12 49.0
17	25 33.62	14.74	36 23.6	33.7	31852	343	69	43	45.3
18	25 48.36	14.77	36 57.3	33.7	32195	317	69	43	41.6
19	26 3.13	14.81	37 31.0	33.7	32512	290	69	43	38.0
20	26 17.94	14.84	38 4.7	33.6	32802	264	69	43	34.3
21	4 26 32.78	+ 14.87	+21 38 38.3	+ 33.7	20.33066	+ 237	1.69	0.43	12 30.6
22	26 47.65	14.90	39 12.0	33.6	33303	210	69	43	26.9
23	27 2.55	14.93	39 45.6	33.6	33513	183	69	43	23.2
24	27 17.48	14.94	40 19.2	33.5	33696	156	69	43	19.5
25	27 32.42	14.96	40 52.7	33.5	33852	130	69	43	15.8
26	4 27 47.38	+ 14.97	+21 41 26.2	+ 33.4	20.33982	+ 103	1.69	0.43	12 12.2
27	28 2.35	14.99	41 59.6	33.4	34085	76	69	43	8.5
28	28 17.34	15.00	42 33.0	33.3	34161	50	69	43	4.8
29	28 32.34	15.00	43 6.3	33.2	34211	+ 24	69	43	12 1.1
30	28 47.34	15.01	43 39.5	33.2	34235	− 3	69	43	11 57.4
31	4 29 2.35	+ 15.00	+21 44 12.7	+ 33.0	20.34232	− 30	1.69	0.43	11 53.8
6 1	29 17.35	15.01	44 45.7	33.0	34202	56	69	43	50.1
2	29 32.36	15.00	45 18.7	32.8	34146	83	69	43	46.4
3	29 47.36	14.99	45 51.5	32.8	34063	109	69	43	42.7
4	30 2.35	14.97	46 24.3	32.6	33954	135	69	43	39.0
5	4 30 17.32	+ 14.97	+21 46 56.9	+ 32.4	20.33819	− 162	1.69	0.43	11 35.3
6	30 32.29	14.95	47 29.3	32.4	33657	188	69	43	31.7
7	30 47.24	14.93	48 1.7	32.2	33469	215	69	43	28.0
8	31 2.17	14.91	48 33.9	32.1	33254	241	69	43	24.3
9	31 17.08	14.88	49 6.0	31.9	33013	267	69	43	20.6
10	4 31 31.96	+ 14.86	+21 49 37.9	+ 31.8	20.32746	− 294	1.69	0.43	11 16.9
11	31 46.82	14.83	50 9.7	31.7	32452	320	69	43	13.2
12	32 1.65	14.80	50 41.4	31.5	32132	348	69	43	9.5
13	32 16.45	14.76	51 12.9	31.3	31784	374	69	43	5.9
14	32 31.21	14.72	51 44.2	31.2	31410	400	69	43	11 2.2
15	4 32 45.93	+ 14.68	+21 52 15.4	+ 31.0	20.31010	− 426	1.69	0.43	10 58.5
16	33 0.61	14.64	52 46.4	30.9	30584	452	69	43	54.8
17	33 15.25	14.59	53 17.3	30.7	30132	477	69	43	51.1
18	33 29.84	14.54	53 48.0	30.4	29655	503	69	43	47.4
19	33 44.38	14.48	54 18.4	30.3	29152	528	69	43	43.7
20	4 33 58.86	+ 14.43	+21 54 48.7	+ 30.0	20.28624	− 554	1.69	0.43	10 40.0
21	34 13.29	14.38	55 18.7	29.9	28070	579	69	43	36.3
22	34 27.67	14.32	55 48.6	29.7	27491	604	69	43	32.6
23	34 41.99	14.24	56 18.3	29.4	26887	629	69	43	28.9
24	34 56.23	14.18	56 47.7	29.2	26258	654	69	43	25.2
25	4 35 10.41	+ 14.12	+21 57 16.9	+ 29.0	25604	− 678	1.69	0.43	10 21.6
26	35 24.53	14.04	57 45.9	28.8	24926	703	69	43	17.9
27	35 38.57	13.97	58 14.7	28.5	24223	727	70	44	14.2
28	35 52.54	13.88	58 43.2	28.3	23496	750	70	44	10.5
29	36 6.42	13.81	59 11.5	28.1	22746	774	70	44	6.8
30	4 36 20.23	+ 13.72	+21 59 39.6	+ 27.8	20.21972	− 798	1.70	0.44	10 3.0
7 1	4 36 33.95		+22 0 7.4		20.21174		1.70	0.44	9 59.3

12月3日圖＝於ケル等級……5.89

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
7 1	4 36 33.95	+ 13.64	+22 0 7.4	+ 27.6	20.21174	− 822	1.70	0.44	9 59.3
2	36 47.59	13.55	0 35.0	27.3	20352	845	70	44	55.6
3	37 1.14	13.45	1 2.3	27.1	19507	869	70	44	51.9
4	37 14.59	13.36	1 29.4	26.8	18638	891	70	44	48.2
5	37 27.95	13.26	1 56.2	26.5	17747	913	70	44	44.5
6	4 37 41.21	+ 13.16	+22 2 22.7	+ 26.3	20.16834	− 937	1.70	0.44	9 40.8
7	37 54.37	13.07	2 49.0	26.0	15897	959	70	44	37.1
8	38 7.44	12.95	3 15.0	25.8	14938	980	70	44	33.4
9	38 20.39	12.85	3 40.8	25.4	13958	1002	70	44	29.6
10	38 33.24	12.75	4 6.2	25.2	12956	1023	70	44	25.9
11	4 38 45.99	+ 12.63	+22 4 31.4	+ 24.9	20.11933	− 1045	1.70	0.44	9 22.2
12	38 58.62	12.52	4 56.3	24.6	10888	1066	70	44	18.5
13	39 11.14	12.40	5 20.9	24.3	09822	1087	70	44	14.8
14	39 23.54	12.27	5 45.2	24.1	08735	1107	70	44	11.0
15	39 35.81	12.16	6 9.3	23.7	07628	1128	70	44	7.3
16	4 39 47.97	+ 12.04	+22 6 33.0	+ 23.4	20.06500	− 1148	1.70	0.44	9 3.6
17	40 0.01	11.91	6 56.4	23.1	05352	1167	71	44	8 59.8
18	40 11.92	11.78	7 19.5	22.8	04185	1187	71	44	56.1
19	40 23.70	11.64	7 42.3	22.6	02998	1206	71	44	52.4
20	40 35.34	11.51	8 4.9	22.2	01792	1225	71	44	48.6
21	4 40 46.85	+ 11.38	+22 8 27.1	+ 21.9	20.00567	− 1244	1.71	0.44	8 44.9
22	40 58.23	11.23	8 49.0	21.6	19.99323	1264	71	44	41.1
23	41 9.46	11.08	9 10.6	21.3	98059	1281	71	44	37.4
24	41 20.54	10.94	9 31.9	20.9	96778	1300	71	44	33.6
25	41 31.48	10.79	9 52.8	20.7	95478	1317	72	44	29.9
26	4 41 42.27	+ 10.65	+22 10 13.5	+ 20.3	19.94161	− 1335	1.72	0.44	8 26.1
27	41 52.92	10.50	10 33.8	20.0	92826	1351	72	44	22.4
28	42 3.42	10.34	10 53.8	19.7	91475	1367	72	44	18.6
29	42 13.76	10.19	11 13.5	19.3	90108	1383	72	44	14.9
30	42 23.95	10.02	11 32.8	19.0	88725	1399	73	44	11.1
31	4 42 33.97	+ 9.87	+22 11 51.8	+ 18.6	19.87326	− 1414	1.73	0.44	8 7.3
8 1	42 43.84	9.70	12 10.4	18.3	85912	1429	73	44	8 3.6
2	42 53.54	9.54	12 28.7	18.0	84483	1443	73	44	7 59.8
3	43 3.08	9.37	12 46.7	17.6	83040	1456	73	44	56.0
4	43 12.45	9.20	13 4.3	17.3	81584	1471	73	44	52.2
5	4 43 21.65	+ 9.03	+22 13 21.6	+ 16.9	19.80113	− 1485	1.73	0.44	7 48.5
6	43 30.68	8.86	13 38.5	16.6	78628	1498	74	45	44.7
7	43 39.54	8.69	13 55.1	16.3	77130	1510	74	45	40.9
8	43 48.23	8.51	14 11.4	15.9	75620	1523	74	45	37.1
9	43 56.74	8.33	14 27.3	15.5	74097	1535	74	45	33.3
10	4 44 5.07	+ 8.15	+22 14 42.8	+ 15.2	19.72562	− 1547	1.74	0.45	7 29.5
11	44 13.22	7.97	14 58.0	14.8	71015	1560	74	45	25.7
12	44 21.19	7.78	15 12.8	14.5	69455	1570	74	45	21.9
13	44 28.97	7.60	15 27.3	14.1	67885	1581	74	45	18.1
14	44 36.57	7.40	15 41.4	13.8	66304	1591	74	45	14.3
15	4 44 43.97	+ 7.22	+22 15 55.2	+ 13.4	19.64713	− 1602	1.74	0.45	7 10.5
16	44 51.19	7.03	16 8.6	13.0	63111	1611	75	45	6.7
17	44 58.22	6.83	16 21.6	12.7	61500	1619	75	45	7 2.9
18	45 5.05	6.64	16 34.3	12.3	59881	1627	75	45	6 59.1
19	45 11.69	6.44	16 46.6	11.9	58254	1636	75	45	55.2
20	4 45 18.13	+ 6.25	+22 16 58.5	+ 11.5	19.56618	− 1644	1.75	0.45	6 51.4
21	45 24.38	6.03	17 10.0	11.2	54974	1652	75	45	47.6
22	45 30.41	5.83	17 21.2	10.8	53322	1657	75	45	43.7
23	45 36.24	5.63	17 32.0	10.4	51665	1664	75	45	39.9
24	45 41.87	5.42	17 42.4	10.0	50001	1671	76	45	36.1
25	4 45 47.29	+ 5.22	+22 17 52.4	+ 9.7	19.48330	− 1676	1.76	0.45	6 32.2
26	45 52.51	5.02	18 2.1	9.3	46654	1681	76	45	28.4
27	45 57.53	4.80	18 11.4	8.9	44973	1685	76	45	24.5
28	46 2.33	4.60	18 20.3	8.5	43288	1688	76	45	20.7
29	46 6.93	4.38	18 28.8	8.1	41600	1693	77	45	16.8
30	4 46 11.31	+ 4.18	+22 18 36.9	+ 7.8	19.39907	− 1696	1.77	0.45	6 13.0
31	46 15.49	3.96	18 44.7	7.4	38211	− 1699	77	45	9.1
9 1	4 46 19.45		+22 18 52.1		19.36512		1.77	0.45	6 5.2

12月3日圖＝於ケル等級……5.89

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
9 1	4 46 19.45	+ 3.75	+22 18 52.1	+ 7.0	19.36512	− 1700	1.77	0.45	6 5.2
2	46 23.20	3.53	18 59.1	6.6	34812	1701	77	45	6 1.4
3	46 26.73	3.32	19 5.7	6.2	33111	1703	77	45	5 57.5
4	46 30.05	3.11	19 11.9	5.9	31408	1704	77	45	53.6
5	46 33.16	2.89	19 17.8	5.5	29704	1705	78	46	49.7
6	4 46 36.05	+ 2.67	+22 19 23.3	+ 5.1	19.27999	− 1704	1.78	0.46	5 45.8
7	46 38.72	2.46	19 28.4	4.7	26295	1703	78	46	42.0
8	46 41.18	2.23	19 33.1	4.3	24592	1702	78	46	38.1
9	46 43.41	2.02	19 37.4	4.0	22890	1702	78	46	34.2
10	46 45.43	1.79	19 41.4	3.6	21188	1701	78	46	30.3
11	4 46 47.22	+ 1.57	+22 19 45.0	+ 3.1	19.19487	− 1697	1.78	0.46	5 26.4
12	46 48.79	1.34	19 48.1	2.8	17790	1695	78	46	22.4
13	46 50.13	1.13	19 50.9	2.5	16095	1691	79	46	18.5
14	46 51.26	0.91	19 53.4	2.0	14404	1688	79	46	14.6
15	46 52.17	0.69	19 55.4	1.7	12716	1684	79	46	10.7
16	4 46 52.86	+ 0.47	+22 19 57.1	+ 1.2	19.11032	− 1678	1.79	0.46	5 6.8
17	46 53.33	0.24	19 58.3	0.9	09354	1672	79	46	5 2.9
18	46 53.57	+ 0.03	19 59.2	0.4	07682	1666	80	46	4 58.9
19	46 53.60	− 0.20	19 59.6	+ 0.1	06016	1661	80	46	55.0
20	46 53.40	0.43	19 59.7	− 0.3	04355	1653	80	46	51.1
21	4 46 52.97	− 0.65	+22 19 59.4	− 0.8	19.02702	− 1645	1.80	0.46	4 47.1
22	46 52.32	0.88	19 58.6	1.1	19.01057	1637	80	46	43.2
23	46 51.44	1.09	19 57.5	1.4	18.99420	1629	81	46	39.2
24	46 50.35	1.32	19 56.1	1.9	97791	1620	81	46	35.3
25	46 49.03	1.53	19 54.2	2.2	96171	1611	81	47	31.3
26	4 46 47.50	− 1.75	+22 19 52.0	− 2.7	18.94560	− 1600	1.81	0.47	4 27.4
27	46 45.75	1.96	19 49.3	3.0	92960	1590	81	47	23.4
28	46 43.79	2.18	19 46.3	3.3	91370	1579	82	47	19.4
29	46 41.61	2.40	19 43.0	3.8	89791	1569	82	47	15.5
30	46 39.21	2.61	19 39.2	4.1	88222	1557	82	47	11.5
10 1	4 46 36.60	− 2.83	+22 19 35.1	− 4.4	18.86665	− 1543	1.82	0.47	4 7.5
2	46 33.77	3.03	19 30.7	4.9	85122	1531	82	47	4 3.6
3	46 30.74	3.25	19 25.8	5.2	83591	1517	82	47	3 59.6
4	46 27.49	3.46	19 20.6	5.6	82074	1505	82	47	55.6
5	46 24.03	3.66	19 15.0	5.9	80569	1490	83	47	51.6
6	4 46 20.37	− 3.87	+22 19 9.1	− 6.4	18.79079	− 1476	1.83	0.47	3 47.6
7	46 16.50	4.08	19 2.7	6.7	77603	1460	83	47	43.6
8	46 12.42	4.28	18 56.0	7.0	76143	1444	83	47	39.6
9	46 8.14	4.49	18 49.0	7.5	74699	1430	83	47	35.6
10	46 3.65	4.70	18 41.5	7.8	73269	1414	83	47	31.6
11	4 45 58.95	− 4.89	+22 18 33.7	− 8.2	18.71855	− 1396	1.83	0.47	3 27.6
12	45 54.06	5.10	18 25.5	8.6	70459	1378	83	47	23.6
13	45 48.96	5.29	18 16.9	8.9	69081	1361	83	47	19.6
14	45 43.67	5.49	18 8.0	9.3	67720	1343	83	47	15.5
15	45 38.18	5.68	17 58.7	9.6	66377	1325	84	47	11.5
16	4 45 32.50	− 5.86	+22 17 49.1	− 10.0	18.65052	− 1305	1.84	0.47	3 7.5
17	45 26.64	6.05	17 39.1	10.3	63747	1284	84	47	3 3.4
18	45 20.59	6.23	17 28.8	10.6	62463	1265	84	47	2 59.4
19	45 14.36	6.42	17 18.2	11.0	61198	1245	84	47	55.4
20	45 7.94	6.61	17 7.2	11.4	59953	1222	84	47	51.3
21	4 45 1.33	− 6.79	+22 16 55.8	− 11.6	18.58731	− 1201	1.84	0.47	2 47.3
22	44 54.54	6.95	16 44.2	12.0	57530	1178	84	47	43.3
23	44 47.59	7.13	16 32.2	12.4	56352	1155	84	47	39.2
24	44 40.46	7.30	16 19.8	12.6	55197	1134	84	47	35.2
25	44 33.16	7.46	16 7.2	13.0	54063	1111	85	48	31.1
26	4 44 25.70	− 7.62	+22 15 54.2	− 13.3	18.52952	− 1088	1.85	0.48	2 27.1
27	44 18.08	7.77	15 40.9	13.5	51864	1063	85	48	23.0
28	44 10.31	7.93	15 27.4	13.9	50801	1040	85	48	18.9
29	44 2.38	8.08	15 13.5	14.2	49761	1016	85	48	14.9
30	43 54.30	8.24	14 59.3	14.5	48745	991	85	48	10.8
31	4 43 46.06	− 8.37	+22 14 44.8	− 14.7	18.47754	− 965	1.85	0.48	2 6.7
11 1	4 43 37.69		+22 14 30.1		18.46789		1.85	0.48	2 2.7

12月3日面ニ於ケル等級……5.89

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
11 1	4 43 37.69	− 8.52	+22 14 30.1	− 15.1	18.46789	− 940	1.85	0.48	2 2.7
2	43 29.17	8.65	14 15.0	15.3	45849	914	85	48	1 58.6
3	43 20.52	8.80	13 59.7	15.6	44935	889	85	48	54.5
4	43 11.72	8.92	13 44.1	15.8	44046	863	86	48	50.4
5	43 2.80	9.05	13 28.3	16.1	43183	836	86	48	46.4
6	4 42 53.75	− 9.16	+22 13 12.2	− 16.4	18.42347	− 809	1.86	0.48	1 42.3
7	42 44.59	9.29	12 55.8	16.6	41538	782	86	48	38.2
8	42 35.30	9.41	12 39.2	16.9	40756	755	86	48	34.1
9	42 25.89	9.53	12 22.3	17.2	40001	726	86	48	30.0
10	42 16.36	9.64	12 5.1	17.3	39275	698	86	48	25.9
11	4 42 6.72	− 9.73	+22 11 47.8	− 17.6	18.38577	− 669	1.86	0.48	1 21.8
12	41 56.99	9.84	11 30.2	17.9	37908	641	86	48	17.7
13	41 47.15	9.94	11 12.3	18.0	37267	612	86	48	13.7
14	41 37.21	10.03	10 54.3	18.2	36655	584	87	48	9.6
15	41 27.18	10.10	10 36.1	18.5	36071	555	87	48	5.5
16	4 41 17.08	− 10.19	+22 10 17.6	− 18.6	18.35516	− 524	1.87	0.48	1 1.4
17	41 6.89	10.26	9 59.0	18.7	34992	495	87	48	0 57.3
18	40 56.63	10.35	9 40.3	19.0	34497	465	87	48	53.2
19	40 46.28	10.42	9 21.3	19.2	34032	433	87	48	49.1
20	40 35.86	10.47	9 2.1	19.3	33599	402	87	48	44.9
21	4 40 25.39	− 10.53	+22 8 42.8	− 19.4	18.33197	− 372	1.87	0.48	0 40.8
22	40 14.86	10.58	8 23.4	19.6	32825	341	87	48	36.7
23	40 4.28	10.64	8 3.8	19.7	32484	310	87	48	32.6
24	39 53.64	10.68	7 44.1	19.9	32174	281	87	48	28.5
25	39 42.96	10.72	7 24.2	19.9	31893	249	87	48	24.4
26	4 39 32.24	− 10.74	+22 7 4.3	− 20.1	18.31644	− 219	1.87	0.48	0 20.3
27	39 21.50	10.78	6 44.2	20.1	31425	189	87	48	16.2
28	39 10.72	10.81	6 24.1	20.3	31236	157	87	48	12.1
29	38 59.91	10.83	6 3.8	20.4	31079	126	87	48	8.0
30	38 49.08	10.84	5 43.4	20.4	30953	96	87	48	0 3.9 23 59.7
12 1	4 38 38.24	− 10.85	+22 5 23.0	− 20.5	18.30857	− 64	1.87	0.48	23 55.6
2	38 27.39	10.86	5 2.5	20.6	30793	34	87	48	51.5
3	38 16.53	10.86	4 41.9	20.6	30759	− 2	87	48	47.4
4	38 5.67	10.86	4 21.3	20.6	30757	+ 28	87	48	43.3
5	37 54.81	10.85	4 0.7	20.7	30785	60	87	48	39.2
6	4 37 43.96	− 10.83	+22 3 40.0	− 20.7	18.30845	+ 91	1.87	0.48	23 35.1
7	37 33.13	10.82	3 19.3	20.7	30936	123	87	48	31.0
8	37 22.31	10.80	2 58.6	20.7	31059	155	87	48	26.9
9	37 11.51	10.78	2 37.9	20.7	31214	188	87	48	22.7
10	37 0.73	10.74	2 17.2	20.7	31402	220	87	48	18.6
11	4 36 49.99	− 10.70	+22 1 56.5	− 20.6	18.31622	+ 251	1.87	0.48	23 14.5
12	36 39.29	10.66	1 35.9	20.6	31873	282	87	48	10.4
13	36 28.63	10.63	1 15.3	20.5	32155	313	87	48	6.3
14	36 18.00	10.57	0 54.8	20.5	32468	343	87	48	23 2.2
15	36 7.43	10.51	0 34.3	20.4	32811	374	87	48	22 58.1
16	4 35 56.92	− 10.45	+22 0 13.9	− 20.3	18.33185	+ 404	1.87	0.48	22 54.0
17	35 46.47	10.38	21 59 53.6	20.2	33589	435	87	48	49.9
18	35 36.09	10.32	59 33.4	20.2	34024	465	87	48	45.8
19	35 25.77	10.23	59 13.2	20.0	34489	496	87	48	41.7
20	35 15.54	10.15	58 53.2	19.9	34985	525	87	48	37.6
21	4 35 5.39	− 10.06	+21 58 33.3	− 19.7	18.35510	+ 555	1.87	0.48	22 33.5
22	34 55.33	9.97	58 13.6	19.6	36065	584	87	48	29.4
23	34 45.36	9.88	57 54.0	19.5	36649	614	87	48	25.3
24	34 35.48	9.79	57 34.5	19.3	37263	642	87	48	21.2
25	34 25.69	9.68	57 15.2	19.1	37905	671	86	48	17.1
26	4 34 16.01	− 9.58	+21 56 56.1	− 19.0	18.38576	+ 699	1.86	0.48	22 13.0
27	34 6.43	9.46	56 37.1	18.7	39275	728	86	48	8.9
28	33 56.97	9.36	56 18.4	18.6	40003	756	86	48	4.8
29	33 47.61	9.23	55 59.8	18.3	40759	785	86	48	22 0.8
30	33 38.38	9.11	55 41.5	18.1	41544	811	86	48	21 56.7
31	4 33 29.27	− 8.97	+21 55 23.4	− 17.9	18.42355	+ 839	1.86	0.48	21 52.6
12 32	4 33 20.30		+21 55 5.5		18.43194		1.86	0.48	21 48.5

12月3日面ニ於ケル等級……5.89

月	日	世界時 0h 赤経		世界時 0h 赤緯		地心距離		視半径	地平視差	本初子午線正中時
		h m s	s	° ′ ″	″			″	″	h m
1	1	12 17 46.36	+ 0.68	− 0 24 40.0	− 0.9	30.15828	− 1727	1.21	0.29	5 38.7
	2	17 47.04	0.56	24 40.9	− 0.1	14101	1723	21	29	34.8
	3	17 47.60	0.43	24 41.0	+ 0.8	12378	1721	21	29	30.9
	4	17 48.03	0.31	24 40.2	1.6	10657	1716	21	29	26.9
	5	17 48.34	0.18	24 38.6	2.3	08941	1711	21	29	23.0
	6	12 17 48.52	+ 0.05	− 0 24 36.3	+ 3.2	30.07230	− 1705	1.21	0.29	5 19.1
	7	17 48.57	− 0.07	24 33.1	4.1	05525	1700	21	29	15.2
	8	17 48.50	0.20	24 29.0	4.8	03825	1694	21	29	11.2
	9	17 48.30	0.32	24 24.2	5.6	02131	1687	22	29	7.3
	10	17 47.98	0.45	24 18.6	6.4	30.00444	1679	22	29	5 3.4
	11	12 17 47.53	− 0.57	− 0 24 12.2	+ 7.3	29.98765	− 1670	1.22	0.29	4 59.4
	12	17 46.96	0.69	24 4.9	8.0	97095	1662	22	29	55.5
	13	17 46.27	0.82	23 56.9	8.8	95433	1653	22	29	51.5
	14	17 45.45	0.95	23 48.1	9.6	93780	1643	22	29	47.6
	15	17 44.50	1.06	23 38.5	10.4	92137	1633	22	29	43.6
	16	12 17 43.44	− 1.19	− 0 23 28.1	+ 11.1	29.90504	− 1621	1.22	0.29	4 39.7
	17	17 42.25	1.32	23 17.0	12.0	88883	1611	22	29	35.7
	18	17 40.93	1.43	23 5.0	12.7	87272	1599	22	29	31.8
	19	17 39.50	1.55	22 52.3	13.4	85673	1588	23	30	27.8
	20	17 37.95	1.67	22 38.9	14.2	84085	1574	23	30	23.9
	21	12 17 36.28	− 1.79	− 0 22 24.7	+ 15.0	29.82511	− 1560	1.23	0.30	4 19.9
	22	17 34.49	1.91	22 9.7	15.7	80951	1547	23	30	15.9
	23	17 32.58	2.03	21 54.0	16.5	79404	1533	23	30	12.0
	24	17 30.55	2.15	21 37.5	17.2	77871	1518	23	30	8.0
	25	17 28.40	2.27	21 20.3	18.0	76353	1502	23	30	4.1
	26	12 17 26.13	− 2.38	− 0 21 2.3	+ 18.6	29.74851	− 1487	1.23	0.30	4 0.1
	27	17 23.75	2.50	20 43.7	19.4	73364	1470	23	30	3 56.1
	28	17 21.25	2.61	20 24.3	20.1	71894	1454	23	30	52.1
	29	17 18.64	2.72	20 4.2	20.8	70440	1438	23	30	48.2
	30	17 15.92	2.82	19 43.4	21.4	69002	1419	23	30	44.2
	31	12 17 13.10	− 2.94	− 0 19 22.0	+ 22.1	29.67583	− 1402	1.23	0.30	3 40.2
2	1	17 10.16	3.04	18 59.9	22.8	66181	1383	23	30	36.2
	2	17 7.12	3.15	18 37.1	23.5	64798	1365	23	30	32.2
	3	17 3.97	3.26	18 13.6	24.1	63433	1344	23	30	28.3
	4	17 0.71	3.36	17 49.5	24.8	62089	1324	23	30	24.3
	5	12 16 57.35	− 3.46	− 0 17 24.7	+ 25.3	29.60765	− 1304	1.23	0.30	3 20.3
	6	16 53.89	3.56	16 59.4	26.0	59461	1283	23	30	16.3
	7	16 50.33	3.66	16 33.4	26.6	58178	1263	23	30	12.3
	8	16 46.67	3.75	16 6.8	27.2	56915	1242	24	30	8.3
	9	16 42.92	3.85	15 39.6	27.8	55673	1220	24	30	4.3
	10	12 16 39.07	− 3.94	− 0 15 11.8	+ 28.3	29.54453	− 1197	1.24	0.30	3 0.3
	11	16 35.13	4.04	14 43.5	28.9	53256	1176	24	30	2 56.3
	12	16 31.09	4.13	14 14.6	29.4	52080	1153	24	30	52.3
	13	16 26.96	4.22	13 45.2	30.0	50927	1130	24	30	48.3
	14	16 22.74	4.31	13 15.2	30.5	49797	1106	24	30	44.3
	15	12 16 18.43	− 4.39	− 0 12 44.7	+ 31.0	29.48691	− 1082	1.24	0.30	2 40.3
	16	16 14.04	4.47	12 13.7	31.5	47609	1058	24	30	36.3
	17	16 9.57	4.56	11 42.2	32.0	46551	1034	24	30	32.3
	18	16 5.01	4.64	11 10.2	32.5	45517	1010	24	30	28.3
	19	16 0.37	4.71	10 37.7	32.9	44507	983	24	30	24.3
	20	12 15 55.66	− 4.79	− 0 10 4.8	+ 33.4	29.43524	− 958	1.24	0.30	2 20.3
	21	15 50.87	4.87	9 31.4	33.8	42566	931	24	30	16.3
	22	15 46.00	4.94	8 57.6	34.3	41635	906	24	30	12.3
	23	15 41.06	5.01	8 23.3	34.7	40729	878	24	30	8.2
	24	15 36.05	5.08	7 48.6	35.1	39851	850	24	30	4.2
	25	12 15 30.97	− 5.15	− 0 7 13.5	+ 35.4	29.39001	− 823	1.24	0.30	2 0.2
	26	15 25.82	5.21	6 38.1	35.9	38178	795	24	30	1 56.2
	27	15 20.61	5.28	6 2.2	36.2	37333	768	24	30	52.2
	28	15 15.33	5.34	5 26.0	36.5	36615	741	25	30	48.2
	29	15 9.99	− 5.39	4 49.5	+ 36.8	35874	− 713	25	30	44.1
3	1	12 15 4.60		− 0 4 12.7		29.35161		1.25	0.30	1 40.1

3月23日儘ニ於ケル等級……7.69

月	日	世界時 0h 赤経		世界時 0h 赤緯		地心距離		視半径	地平視差	本初子午線正中時
		h m s	s	° ′ ″	″			″	″	h m
3	1	12 15 4.60	− 5.44	− 0 4 12.7	+ 37.2	29.35161	− 684	1.25	0.30	1 40.1
	2	14 59.16	5.50	3 35.5	37.4	34477	656	25	30	36.1
	3	14 53.66	5.55	2 58.1	37.7	33821	628	25	30	32.1
	4	14 48.11	5.60	2 20.4	38.0	33193	598	25	30	28.1
	5	14 42.51	5.64	1 42.4	38.1	32595	568	25	30	24.0
	6	12 14 36.87	− 5.68	− 0 1 4.3	+ 38.4	29.32027	− 539	1.25	0.30	1 20.0
	7	14 31.19	5.72	− 0 0 25.9	38.7	31488	510	25	30	16.0
	8	14 25.47	5.77	+ 0 0 12.8	38.8	30978	481	25	30	11.9
	9	14 19.70	5.80	0 51.6	39.0	30497	452	25	30	7.9
	10	14 13.90	5.84	1 30.6	39.2	30045	422	25	30	1 3.9
	11	12 14 8.06	− 5.86	+ 0 2 9.8	+ 39.3	29.29623	− 393	1.25	0.30	0 59.9
	12	14 2.20	5.90	2 49.1	39.5	29230	363	25	30	55.8
	13	13 56.30	5.93	3 28.6	39.6	28867	334	25	30	51.8
	14	13 50.37	5.96	4 8.2	39.7	28533	302	25	30	47.8
	15	13 44.41	5.97	4 47.9	39.8	28231	273	25	30	43.7
	16	12 13 38.44	− 6.00	+ 0 5 27.7	+ 39.8	29.27958	− 242	1.25	0.30	0 39.7
	17	13 32.44	6.01	6 7.5	40.0	27716	213	25	30	35.7
	18	13 26.43	6.04	6 47.5	40.0	27503	182	25	30	31.6
	19	13 20.39	6.05	7 27.5	40.1	27321	153	25	30	27.6
	20	13 14.34	6.05	8 7.6	40.0	27168	122	25	30	23.6
	21	12 13 8.29	− 6.06	+ 0 8 47.6	+ 40.0	29.27046	− 92	1.25	0.30	0 19.5
	22	13 2.23	6.07	9 27.6	40.0	26954	62	25	30	15.5
	23	12 56.16	6.08	10 7.6	40.0	26892	32	25	30	11.5
	24	12 50.08	6.08	10 47.6	39.9	26860	− 1	25	30	7.5
	25	12 44.00	6.07	11 27.5	39.9	26859	+ 30	25	30	{0 3.4 / 123 59.4}
	26	12 12 37.93	− 6.07	+ 0 12 7.4	+ 39.7	29.26889	+ 60	1.25	0.30	23 55.4
	27	12 31.86	6.06	12 47.1	39.7	26949	90	25	30	51.3
	28	12 25.80	6.06	13 26.8	39.6	27039	120	25	30	47.3
	29	12 19.74	6.05	14 6.4	39.5	27159	150	25	30	43.3
	30	12 13.69	6.03	14 45.9	39.3	27309	179	25	30	39.2
	31	12 12 7.66	− 6.01	+ 0 15 25.2	+ 39.1	29.27488	+ 210	1.25	0.30	23 35.2
4	1	12 1.65	5.99	16 4.3	39.0	27698	239	25	30	31.2
	2	11 55.66	5.98	16 43.3	38.8	27937	270	25	30	27.1
	3	11 49.68	5.95	17 22.1	38.6	28207	301	25	30	23.1
	4	11 43.73	5.92	18 0.7	38.3	28508	330	25	30	19.1
	5	12 11 37.81	− 5.90	+ 0 18 39.0	+ 38.1	29.28838	+ 360	1.25	0.30	23 15.0
	6	11 31.91	5.86	19 17.1	37.8	29198	389	25	30	11.0
	7	11 26.05	5.84	19 54.9	37.6	29587	418	25	30	7.0
	8	11 20.21	5.80	20 32.5	37.3	30005	447	25	30	23 3.0
	9	11 14.41	5.77	21 9.8	37.1	30452	475	25	30	22 58.9
	10	12 11 8.64	− 5.72	+ 0 21 46.9	+ 36.7	29.30927	+ 505	1.25	0.30	22 54.9
	11	11 2.92	5.69	22 23.6	36.3	31432	533	25	30	50.9
	12	10 57.23	5.64	22 59.9	36.1	31965	562	25	30	46.9
	13	10 51.59	5.60	23 36.0	35.7	32527	592	25	30	42.8
	14	10 45.99	5.55	24 11.7	35.4	33119	619	25	30	38.8
	15	12 10 40.44	− 5.50	+ 0 24 47.1	+ 35.0	29.33738	+ 647	1.25	0.30	22 34.8
	16	10 34.94	5.45	25 22.1	34.6	34385	675	25	30	30.8
	17	10 29.49	5.40	25 56.7	34.2	35060	702	25	30	26.7
	18	10 24.09	5.34	26 30.9	33.8	35762	729	25	30	22.7
	19	10 18.75	5.29	27 4.7	33.4	36491	754	24	30	18.7
	20	12 10 13.46	− 5.22	+ 0 27 38.1	+ 32.9	29.37245	+ 781	1.24	0.30	22 14.7
	21	10 8.24	5.17	28 11.0	32.5	38026	808	24	30	10.7
	22	10 3.07	5.10	28 43.5	32.0	38834	833	24	30	6.6
	23	9 57.97	5.03	29 15.5	31.5	39667	859	24	30	22 2.6
	24	9 52.94	4.97	29 47.0	31.1	40526	884	24	30	21 58.6
	25	12 9 47.97	− 4.89	+ 0 30 18.1	+ 30.5	29.41410	+ 908	1.24	0.30	21 54.6
	26	9 43.08	4.83	30 48.6	30.1	42318	933	24	30	50.6
	27	9 38.25	4.75	31 18.7	29.5	43251	958	24	30	46.6
	28	9 33.50	4.68	31 48.2	29.0	44209	982	24	30	42.6
	29	9 28.82	4.61	32 17.2	28.5	45191	1004	24	30	38.6
	30	12 9 24.21	− 4.52	+ 0 32 45.7	+ 27.9	29.46195	+ 1028	1.24	0.30	21 34.6
5	1	12 9 19.69		+ 0 33 13.6		29.47223		1.24	0.30	21 30.6

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月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	本初子午線正中時
	h m s s	° ′ ″ ″		″ ″		h m
5 1	12 9 19.69 − 4.45	+ 0 33 13.6 + 27.4	29.47223 + 1050	1.24 0.30		21 30.6
2	9 15.24 4.36	33 41.0 26.8	48273 1074	24 30		26.5
3	9 10.88 4.28	34 7.8 26.2	49347 1096	24 30		22.5
4	9 6.60 4.19	34 34.0 25.6	50443 1118	24 30		18.5
5	9 2.41 4.10	34 59.6 24.9	51561 1139	24 30		14.5
6	12 8 58.31 − 4.02	+ 0 35 24.5 + 24.4	29.52700 + 1160	1.24 0.30		21 10.5
7	8 54.29 3.93	35 48.9 23.8	53860 1182	24 30		6.5
8	8 50.36 3.84	36 12.7 23.1	55042 1202	24 30		21 2.6
9	8 46.52 3.75	36 35.8 22.5	56244 1222	23 30		20 58.6
10	8 42.77 3.66	36 58.3 21.9	57466 1241	23 30		54.6
11	12 8 39.11 − 3.56	+ 0 37 20.2 + 21.2	29.58707 + 1262	1.23 0.30		20 50.6
12	8 35.55 3.47	37 41.4 20.6	59969 1281	23 30		46.6
13	8 32.08 3.37	38 2.0 19.9	61250 1301	23 30		42.6
14	8 28.71 3.28	38 21.9 19.3	62551 1320	23 30		38.6
15	8 25.43 3.17	38 41.2 18.5	63871 1337	23 30		34.6
16	12 8 22.26 − 3.08	+ 0 38 59.7 + 17.9	29.65208 + 1354	1.23 0.30		20 30.6
17	8 19.18 2.97	39 17.6 17.2	66562 1373	23 30		26.7
18	8 16.21 2.88	39 34.8 16.5	67935 1389	23 30		22.7
19	8 13.33 2.77	39 51.3 15.8	69324 1404	23 30		18.7
20	8 10.56 2.66	40 7.1 15.1	70728 1420	23 30		14.7
21	12 8 7.90 − 2.56	+ 0 40 22.2 + 14.4	29.72148 + 1435	1.23 0.30		20 10.8
22	8 5.34 2.45	40 36.6 13.6	73583 1450	23 30		6.8
23	8 2.89 2.34	40 50.2 12.9	75033 1465	23 30		20 2.8
24	8 0.55 2.22	41 3.1 12.2	76498 1478	23 30		19 58.8
25	7 58.33 2.12	41 15.3 11.4	77976 1491	23 30		54.9
26	12 7 56.21 − 2.00	+ 0 41 26.7 + 10.7	29.79467 + 1504	1.23 0.30		19 50.9
27	7 54.21 1.90	41 37.4 9.9	80971 1518	23 30		46.9
28	7 52.31 1.79	41 47.3 9.2	82489 1530	23 30		43.0
29	7 50.52 1.68	41 56.5 8.5	84019 1540	22 29		39.0
30	7 48.84 1.56	42 5.0 7.7	85559 1552	22 29		35.1
31	12 7 47.28 − 1.45	+ 0 42 12.7 + 7.0	29.87111 + 1562	1.22 0.29		19 31.1
6 1	7 45.83 1.33	42 19.7 6.2	88673 1574	22 29		27.2
2	7 44.50 1.22	42 25.9 5.4	90247 1584	22 29		23.2
3	7 43.28 1.10	42 31.3 4.7	91831 1592	22 29		19.2
4	7 42.18 0.99	42 36.0 3.9	93423 1602	22 29		15.3
5	12 7 41.19 − 0.87	+ 0 42 39.9 + 3.1	29.95025 + 1610	1.22 0.29		19 11.4
6	7 40.32 0.75	42 43.0 2.4	96635 1619	22 29		7.4
7	7 39.57 0.64	42 45.4 1.6	98254 1626	22 29		19 3.5
8	7 38.93 0.53	42 47.0 0.9	29.99880 1633	22 29		18 59.5
9	7 38.40 0.40	42 47.9 + 0.1	30.01513 1639	22 29		55.6
10	12 7 38.00 − 0.29	+ 0 42 48.0 − 0.7	30.03152 + 1646	1.22 0.29		18 51.7
11	7 37.71 0.17	42 47.3 1.5	04798 1652	22 29		47.7
12	7 37.54 − 0.05	42 45.8 2.3	06450 1657	22 29		43.8
13	7 37.49 + 0.07	42 43.5 3.0	08107 1662	22 29		39.9
14	7 37.56 0.18	42 40.5 3.9	09769 1665	22 29		35.9
15	12 7 37.74 + 0.31	+ 0 42 36.6 − 4.6	30.11434 + 1670	1.22 0.29		18 32.0
16	7 38.05 0.42	42 32.0 5.4	13104 1674	22 29		28.1
17	7 38.47 0.54	42 26.6 6.1	14778 1677	22 29		24.1
18	7 39.01 0.65	42 20.5 6.9	16455 1678	21 29		20.2
19	7 39.66 0.78	42 13.6 7.7	18133 1680	21 29		16.3
20	12 7 40.44 + 0.89	+ 0 42 5.9 − 8.5	30.19813 + 1682	1.21 0.29		18 12.4
21	7 41.33 1.02	41 57.4 9.2	21495 1684	21 29		8.5
22	7 42.35 1.14	41 48.2 10.0	23179 1684	21 29		4.6
23	7 43.49 1.26	41 38.2 10.8	24863 1683	21 29		18 0.6
24	7 44.75 1.37	41 27.4 11.6	26546 1683	21 29		17 56.7
25	12 7 46.12 + 1.50	+ 0 41 15.8 − 12.3	30.28229 + 1682	1.21 0.29		17 52.8
26	7 47.62 1.61	41 3.5 13.1	29911 1681	21 29		48.9
27	7 49.23 1.73	40 50.4 13.8	31592 1680	21 29		45.0
28	7 50.96 1.84	40 36.6 14.6	33272 1676	20 29		41.1
29	7 52.80 1.96	40 22.0 15.3	34948 1674	20 29		37.2
30	12 7 54.76 + 2.07	+ 0 40 6.7 − 16.1	30.36622 + 1670	1.20 0.29		17 33.3
7 1	12 7 56.83	+ 0 39 50.6	30.38292	1.20 0.29		17 29.4

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月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	本初子午線正中時
	h m s s	° ′ ″ ″		″ ″		h m
7 1	12 7 56.83 + 2.19	+ 0 39 50.6 − 16.8	30.38292 + 1668	1.20 0.29		17 29.4
2	7 59.02 2.30	39 33.8 17.6	39960 1663	20 29		25.5
3	8 1.32 2.42	39 16.2 18.2	41623 1657	20 29		21.6
4	8 3.74 2.53	38 58.0 19.0	43280 1652	20 29		17.7
5	8 6.27 2.65	38 39.0 19.8	44932 1646	20 29		13.9
6	12 8 8.92 + 2.76	+ 0 38 19.2 − 20.4	30.46578 + 1641	1.20 0.29		17 10.0
7	8 11.68 2.87	37 58.8 21.2	48219 1635	20 29		6.1
8	8 14.55 2.97	37 37.6 21.9	49854 1628	20 29		17 2.2
9	8 17.52 3.09	37 15.7 22.5	51482 1620	20 29		16 58.3
10	8 20.61 3.21	36 53.2 23.3	53102 1613	20 29		54.4
11	12 8 23.82 + 3.31	+ 0 36 29.9 − 24.0	30.54715 + 1606	1.20 0.29		16 50.6
12	8 27.13 3.43	36 5.9 24.7	56321 1598	20 29		46.7
13	8 30.56 3.53	35 41.2 25.4	57919 1588	20 29		42.8
14	8 34.09 3.64	35 15.8 26.0	59507 1579	20 29		38.9
15	8 37.73 3.75	34 49.8 26.8	61086 1569	20 29		35.1
16	12 8 41.48 + 3.86	+ 0 34 23.0 − 27.4	30.62655 + 1560	1.20 0.29		16 31.2
17	8 45.34 3.96	33 55.6 28.1	64215 1549	20 29		27.3
18	8 49.30 4.07	33 27.5 28.7	65764 1538	19 29		23.5
19	8 53.37 4.17	32 58.8 29.4	67302 1525	19 29		19.6
20	8 57.54 4.27	32 29.4 30.0	68827 1514	19 29		15.8
21	12 9 1.81 + 4.38	+ 0 31 59.4 − 30.7	30.70341 + 1502	1.19 0.29		16 11.9
22	9 6.19 4.48	31 28.7 31.3	71843 1488	19 29		8.0
23	9 10.67 4.59	30 57.4 32.0	73331 1475	19 29		4.2
24	9 15.26 4.68	30 25.4 32.5	74806 1461	19 29		16 0.3
25	9 19.94 4.77	29 52.9 33.2	76267 1447	19 29		15 56.5
26	12 9 24.71 + 4.88	+ 0 29 19.7 − 33.8	30.77714 + 1433	1.19 0.29		15 52.6
27	9 29.59 4.97	28 45.9 34.4	79147 1419	19 29		48.8
28	9 34.56 5.07	28 11.5 34.9	80566 1403	18 29		44.9
29	9 39.63 5.15	27 36.6 35.5	81969 1388	18 29		41.1
30	9 44.78 5.25	27 1.1 36.1	83357 1372	18 29		37.2
31	12 9 50.03 + 5.34	+ 0 26 25.0 − 36.7	30.84729 + 1357	1.18 0.29		15 33.4
8 1	9 55.37 5.43	25 48.3 37.2	86086 1340	18 29		29.5
2	10 0.80 5.52	25 11.1 37.8	87426 1323	18 29		25.7
3	10 6.32 5.60	24 33.3 38.3	88749 1305	18 29		21.9
4	10 11.92 5.70	23 55.0 38.8	90054 1288	18 29		18.0
5	12 10 17.62 + 5.78	+ 0 23 16.2 − 39.4	30.91342 + 1271	1.18 0.29		15 14.2
6	10 23.40 5.86	22 36.8 39.9	92613 1253	18 29		10.3
7	10 29.26 5.95	21 56.9 40.4	93866 1234	18 28		6.5
8	10 35.21 6.02	21 16.5 40.8	95100 1214	18 28	15	2.7
9	10 41.23 6.11	20 35.7 41.4	96314 1196	18 28	14	58.8
10	12 10 47.34 + 6.19	+ 0 19 54.3 − 41.9	30.97510 + 1176	1.18 0.28	14	55.0
11	10 53.53 6.27	19 12.4 42.4	98686 1156	18 28		51.2
12	10 59.80 6.35	18 30.0 42.8	30.99842 1134	18 28		47.4
13	11 6.15 6.42	17 47.2 43.2	31.00976 1114	18 28		43.5
14	11 12.57 6.50	17 4.0 43.7	02090 1094	18 28		39.7
15	12 11 19.07 + 6.57	+ 0 16 20.3 − 44.1	31.03184 + 1072	1.18 0.28	14	35.9
16	11 25.64 6.64	15 36.2 44.6	04256 1052	18 28		32.1
17	11 32.28 6.71	14 51.6 44.9	05308 1029	18 28		28.2
18	11 38.99 6.77	14 6.7 45.4	06337 1008	18 28		24.4
19	11 45.76 6.85	13 21.3 45.7	07345 985	18 28		20.6
20	12 11 52.61 + 6.91	+ 0 12 35.6 − 46.2	31.08330 + 963	1.18 0.28	14	16.8
21	11 59.52 6.98	11 49.4 46.6	09293 940	18 28		13.0
22	12 6.50 7.04	11 2.8 46.9	10233 916	18 28		9.2
23	12 13.54 7.09	10 15.9 47.2	11149 893	18 28		5.3
24	12 20.63 7.16	9 28.7 47.6	12042 869	18 28	14	1.5
25	12 12 27.79 + 7.22	+ 0 8 41.1 − 47.9	31.12911 + 846	1.18 0.28	13	57.7
26	12 35.01 7.28	7 53.2 48.2	13757 822	18 28		53.9
27	12 42.29 7.32	7 5.0 48.6	14579 797	17 28		50.1
28	12 49.61 7.38	6 16.4 48.8	15376 773	17 28		46.3
29	12 56.99 7.44	5 27.6 49.2	16149 748	17 28		42.5
30	12 13 4.43 + 7.48	+ 0 4 38.4 − 49.4	31.16897 + 724	1.17 0.28	13	38.7
31	13 11.91 + 7.53	3 49.0 49.7	17621 + 697	17 28		34.9
9 1	12 13 19.44	+ 0 2 59.3	31.18318	1.17 0.28	13	31.1

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月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
9 1	12 13 19.44	+ 7.58	+ 0 2 59.3	− 49.9	31.18318	+ 672	1.17′	0.28	13 31.1
2	13 27.02	7.62	2 9.4	50.2	18990	646	17	28	27.3
3	13 34.64	7.66	1 19.2	50.4	19636	620	17	28	23.4
4	13 42.30	7.71	+ 0 0 28.8	50.7	20256	595	17	28	19.6
5	13 50.01	7.75	− 0 0 21.9	50.9	20851	569	17	28	15.8
6	12 13 57.76	+ 7.79	− 0 1 12.8	− 51.0	31.21420	+ 544	1.17	0.28	13 12.0
7	14 5.55	7.82	2 3.8	51.3	21964	517	17	28	8.2
8	14 13.37	7.86	2 55.1	51.4	22481	490	17	28	4.4
9	14 21.23	7.89	3 46.5	51.7	22971	465	17	28	13 0.6
10	14 29.12	7.93	4 38.2	51.8	23436	438	17	28	12 56.8
11	12 14 37.05	+ 7.96	− 0 5 30.0	− 51.9	31.23874	+ 412	1.17	0.28	12 53.0
12	14 45.01	7.98	6 21.9	52.1	24286	384	17	28	49.2
13	14 52.99	8.02	7 14.0	52.2	24670	358	17	28	45.4
14	15 1.01	8.04	8 6.2	52.4	25028	331	17	28	41.6
15	15 9.05	8.06	8 58.6	52.4	25359	304	17	28	37.8
16	12 15 17.11	+ 8.08	− 0 9 51.0	− 52.6	31.25663	+ 276	1.17	0.28	12 34.0
17	15 25.19	8.11	10 43.6	52.6	25939	248	17	28	30.2
18	15 33.30	8.12	11 36.2	52.6	26187	220	17	28	26.4
19	15 41.42	8.14	12 28.8	52.8	26407	193	17	28	22.6
20	15 49.56	8.16	13 21.6	52.8	26600	162	17	28	18.8
21	12 15 57.72	+ 8.17	− 0 14 14.4	− 52.8	31.26762	+ 134	1.17	0.28	12 15.0
22	16 5.89	8.17	15 7.2	52.8	26896	106	17	28	11.3
23	16 14.06	8.19	16 0.0	52.8	27002	78	17	28	7.5
24	16 22.25	8.20	16 52.8	52.9	27080	49	17	28	12 3.7
25	16 30.45	8.20	17 45.7	52.8	27129	+ 22	17	28	11 59.9
26	12 16 38.65	+ 8.21	− 0 18 38.5	− 52.8	31.27151	− 7	1.17	0.28	11 56.1
27	16 46.86	8.20	19 31.3	52.7	27144	34	17	28	52.3
28	16 55.06	8.21	20 24.0	52.7	27110	63	17	28	48.5
29	17 3.27	8.20	21 16.7	52.7	27047	90	17	28	44.7
30	17 11.47	8.20	22 9.4	52.6	26957	118	17	28	40.9
10 1	12 17 19.67	+ 8.20	− 0 23 2.0	− 52.5	31.26839	− 147	1.17	0.28	11 37.1
2	17 27.87	8.18	23 54.5	52.3	26692	174	17	28	33.3
3	17 36.05	8.18	24 46.8	52.3	26518	203	17	28	29.5
4	17 44.23	8.17	25 39.1	52.2	26315	230	17	28	25.7
5	17 52.40	8.16	26 31.3	52.0	26085	258	17	28	21.9
6	12 18 0.56	+ 8.14	− 0 27 23.3	− 51.9	31.25827	− 286	1.17	0.28	11 18.1
7	18 8.70	8.12	28 15.2	51.7	25541	314	17	28	14.3
8	18 16.82	8.11	29 6.9	51.6	25227	342	17	28	10.5
9	18 24.93	8.09	29 58.5	51.4	24885	370	17	28	6.7
10	18 33.02	8.07	30 49.9	51.2	24515	400	17	28	11 2.9
11	12 18 41.09	+ 8.04	− 0 31 41.1	− 51.0	31.24115	− 427	1.17	0.28	10 59.1
12	18 49.13	8.02	32 32.1	50.8	23688	455	17	28	55.3
13	18 57.15	7.99	33 22.9	50.6	23233	483	17	28	51.5
14	19 5.14	7.97	34 13.5	50.3	22750	510	17	28	47.7
15	19 13.11	7.94	35 3.8	50.1	22240	537	17	28	43.9
16	12 19 21.05	+ 7.90	− 0 35 53.9	− 49.8	31.21703	− 564	1.17	0.28	10 40.1
17	19 28.95	7.87	36 43.7	49.5	21139	591	17	28	36.3
18	19 36.82	7.83	37 33.2	49.2	20548	618	17	28	32.5
19	19 44.65	7.79	38 22.4	49.0	19930	644	17	28	28.7
20	19 52.44	7.76	39 11.4	48.7	19286	671	17	28	24.9
21	12 20 0.20	+ 7.71	− 0 40 0.1	− 48.3	31.18615	− 698	1.17	0.28	10 21.1
22	20 7.91	7.67	40 48.4	48.0	17917	723	17	28	17.3
23	20 15.58	7.62	41 36.4	47.6	17194	750	17	28	13.5
24	20 23.20	7.58	42 24.0	47.3	16444	775	17	28	9.7
25	20 30.78	7.53	43 11.3	47.0	15669	801	18	28	5.9
26	12 20 38.31	+ 7.48	− 0 43 58.3	− 46.6	31.14868	− 825	1.18	0.28	10 2.1
27	20 45.79	7.43	44 44.9	46.1	14043	851	18	28	9 58.3
28	20 53.22	7.37	45 31.0	45.8	13192	877	18	28	54.5
29	21 0.59	7.32	46 16.8	45.4	12315	901	18	28	50.7
30	21 7.91	7.26	47 2.2	44.9	11414	926	18	28	46.9
31	12 21 15.17	+ 7.19	− 0 47 47.1	− 44.5	31.10488	− 951	1.18	0.28	9 43.0
11 1	12 21 22.36		− 0 48 31.6		31.09537		1.18	0.28	9 39.2

3月23日衝ニ於ケル等級……7.69

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
11 1	12 21 22.36	+ 7.14	− 0 48 31.6	− 44.1	31.09537	− 974	1.18	0.28	9 39.2
2	21 29.50	7.07	49 15.7	43.6	08563	999	18	28	35.4
3	21 36.57	7.01	49 59.3	43.2	07564	1022	18	28	31.6
4	21 43.58	6.94	50 42.5	42.7	06542	1046	18	28	27.8
5	21 50.52	6.88	51 25.2	42.2	05496	1068	18	28	24.0
6	12 21 57.40	+ 6.80	− 0 52 7.4	− 41.8	31.04428	− 1091	1.18	0.28	9 20.1
7	22 4.20	6.74	52 49.2	41.2	03337	1114	18	28	16.3
8	22 10.94	6.66	53 30.4	40.7	02223	1137	18	28	12.5
9	22 17.60	6.59	54 11.1	40.2	31.01086	1160	18	28	8.7
10	22 24.19	6.52	54 51.3	39.7	30.99926	1182	18	28	4.9
11	12 22 30.71	+ 6.43	− 0 55 31.0	− 39.1	30.98744	− 1203	1.18	0.28	9 1.0
12	22 37.14	6.36	56 10.1	38.6	97541	1224	18	28	8 57.2
13	22 43.50	6.28	56 48.7	38.0	96317	1246	18	28	53.4
14	22 49.78	6.20	57 26.7	37.5	95071	1265	18	28	49.6
15	22 55.98	6.11	58 4.2	36.8	93806	1285	18	28	45.7
16	12 23 2.09	+ 6.03	− 0 58 41.0	− 36.3	30.92521	− 1304	1.18	0.28	8 41.9
17	23 8.12	5.94	59 17.3	35.6	91217	1324	18	28	38.1
18	23 14.06	5.86	0 59 52.9	35.1	89893	1343	18	28	34.2
19	23 19.92	5.76	1 0 28.0	34.4	88550	1361	18	28	30.4
20	23 25.68	5.67	1 2.4	33.8	87189	1379	18	28	26.6
21	12 23 31.35	+ 5.57	− 1 1 36.2	− 33.1	30.85810	− 1396	1.18	0.28	8 22.7
22	23 36.92	5.48	2 9.3	32.5	84414	1413	18	28	18.9
23	23 42.40	5.38	2 41.8	31.9	83001	1431	18	28	15.0
24	23 47.78	5.29	3 13.7	31.2	81570	1447	19	29	11.2
25	23 53.07	5.19	3 44.9	30.6	80123	1463	19	29	7.3
26	12 23 58.26	+ 5.09	− 1 4 15.5	− 29.8	30.78660	− 1478	1.19	0.29	8 3.5
27	24 3.35	4.99	4 45.3	29.2	77182	1494	19	29	7 59.6
28	24 8.34	4.89	5 14.5	28.5	75688	1509	19	29	55.8
29	24 13.23	4.79	5 43.0	27.8	74179	1525	19	29	52.0
30	24 18.02	4.68	6 10.8	27.1	72654	1538	19	29	48.1
12 1	12 24 22.70	+ 4.58	− 1 6 37.9	− 26.3	30.71116	− 1552	1.19	0.29	7 44.2
2	24 27.28	4.47	7 4.2	25.7	69564	1565	19	29	40.4
3	24 31.75	4.36	7 29.9	24.9	67999	1579	19	29	36.5
4	24 36.11	4.26	7 54.8	24.2	66420	1591	20	29	32.7
5	24 40.37	4.14	8 19.0	23.5	64829	1601	20	29	28.8
6	12 24 44.51	+ 4.04	− 1 8 42.5	− 22.7	30.63228	− 1613	1.20	0.29	7 24.9
7	24 48.55	3.92	9 5.2	22.0	61615	1623	20	29	21.1
8	24 52.47	3.81	9 27.2	21.2	59992	1635	20	29	17.2
9	24 56.28	3.69	9 48.4	20.5	58357	1644	20	29	13.3
10	24 59.97	3.57	10 8.9	19.6	56713	1653	20	29	9.5
11	12 25 3.54	+ 3.46	− 1 10 28.5	− 18.9	30.55060	− 1661	1.20	0.29	7 5.6
12	25 7.00	3.34	10 47.4	18.2	53399	1670	20	29	7 1.7
13	25 10.34	3.23	11 5.6	17.3	51729	1679	20	29	6 57.8
14	25 13.57	3.11	11 22.9	16.6	50050	1686	20	29	54.0
15	25 16.68	2.99	11 39.5	15.8	48364	1692	20	29	50.1
16	12 25 19.67	+ 2.86	− 1 11 55.3	− 15.0	30.46672	− 1699	1.20	0.29	6 46.2
17	25 22.53	2.75	12 10.3	14.2	44973	1705	20	29	42.3
18	25 25.28	2.63	12 24.5	13.4	43268	1711	20	29	38.4
19	25 27.91	2.50	12 37.9	12.6	41557	1718	20	29	34.5
20	25 30.41	2.38	12 50.5	11.8	39839	1721	20	29	30.6
21	12 25 32.79	+ 2.25	− 1 13 2.3	− 10.9	30.38118	− 1725	1.20	0.29	6 26.8
22	25 35.04	2.13	13 13.2	10.2	36393	1729	20	29	22.9
23	25 37.17	2.00	13 23.4	9.4	34664	1733	20	29	19.0
24	25 39.17	1.89	13 32.8	8.6	32931	1735	21	29	15.1
25	25 41.06	1.76	13 41.4	7.7	31196	1736	21	29	11.2
26	12 25 42.82	+ 1.63	− 1 13 49.1	− 6.9	30.29460	− 1736	1.21	0.29	6 7.3
27	25 44.45	1.51	13 56.0	6.1	27724	1737	21	29	6 3.4
28	25 45.96	1.38	14 2.1	5.3	25987	1737	21	29	5 59.4
29	25 47.34	1.25	14 7.4	4.5	24250	1737	21	29	55.5
30	25 48.59	1.13	14 11.9	3.6	22514	1736	21	29	51.6
31	12 25 49.72	+ 1.00	− 1 14 15.5	− 2.8	30.20780	− 1732	1.21	0.29	5 47.7
12 32	12 25 50.72		− 1 14 18.3		30.19048		1.21	0.29	5 43.8

3月23日衝ニ於ケル等級……7.69

月	日	τ	A 長	A 短	B 長(=−dλ)	B 短(=−dε)	C	D	E
		世界時 0h							
		年	″	″	″	″	″	″	s
1	1	−0.0013	−5.329	+0.065	+6.206	−0.061	−3.085	+20.192	−0.0020
	2	+0.0015	260	+0.034	192	−0.081	3.415	20.129	20
	3	0042	191	0.000	178	−0.081	3.743	20.060	20
	4	0069	123	−0.030	162	−0.063	4.069	19.984	20
	5	0097	5.055	−0.047	146	−0.033	4.394	19.902	20
	6	+0.0124	−4.987	−0.049	+6.130	+0.003	−4.718	+19.814	−0.0020
	7	0151	919	−0.037	113	+0.036	5.041	19.719	20
	8	0179	851	−0.014	095	+0.059	5.362	19.618	20
	9	0206	784	+0.013	077	+0.069	5.681	19.511	20
	10	0234	718	+0.038	058	+0.066	5.999	19.398	20
	11	+0.0261	−4.652	+0.058	+6.038	+0.051	−6.314	+19.278	−0.0020
	12	0288	586	+0.068	6.018	+0.028	6.628	19.153	20
	13	0316	520	+0.067	5.998	0.000	6.939	19.021	20
	14	0343	455	+0.056	977	−0.028	7.248	18.883	20
	15	0370	391	+0.033	955	−0.053	7.555	18.740	20
	16	+0.0398	−4.327	+0.002	+5.933	−0.069	−7.859	+18.591	−0.0020
	17	0425	263	−0.033	910	−0.074	8.161	18.436	20
	18	0453	200	−0.067	887	−0.064	8.460	18.275	20
	19	0480	138	−0.094	864	−0.040	8.757	18.108	20
	20	0507	076	−0.107	840	−0.006	9.051	17.936	20
	21	+0.0535	−4.015	−0.102	+5.816	+0.033	−9.342	+17.758	−0.0020
	22	0562	3.954	−0.078	792	+0.066	9.630	17.574	20
	23	0589	893	−0.040	767	+0.086	9.915	17.385	20
	24	0617	834	+0.004	742	+0.087	10.196	17.190	20
	25	0644	775	+0.045	716	+0.067	10.475	16.990	20
	26	+0.0672	−3.716	+0.074	+5.690	+0.031	−10.750	+16.785	−0.0020
	27	0699	658	+0.083	664	−0.012	11.022	16.574	20
	28	0726	601	+0.072	638	−0.051	11.290	16.359	20
	29	0754	544	+0.046	612	−0.078	11.554	16.138	20
	30	0781	488	+0.012	585	−0.085	11.815	15.912	20
	31	+0.0809	−3.433	−0.019	+5.559	−0.073	−12.072	+15.681	−0.0020
2	1	0836	378	−0.041	532	−0.044	12.325	15.445	20
	2	0863	324	−0.047	505	−0.008	12.574	15.205	20
	3	0891	271	−0.038	478	+0.028	12.819	14.960	20
	4	0918	218	−0.017	451	+0.055	13.060	14.710	20
	5	+0.0945	−3.166	+0.011	+5.424	+0.069	−13.297	+14.456	−0.0020
	6	0973	115	+0.037	397	+0.069	13.529	14.197	20
	7	1000	064	+0.058	370	+0.056	13.757	13.934	20
	8	1028	3.013	+0.070	344	+0.034	13.981	13.666	20
	9	1055	2.964	+0.072	317	+0.007	14.200	13.395	20
	10	+0.1082	−2.915	+0.063	+5.290	−0.021	−14.415	+13.120	−0.0020
	11	1110	867	+0.043	264	−0.046	14.625	12.840	20
	12	1137	819	+0.015	237	−0.064	14.831	12.557	20
	13	1164	772	−0.019	211	−0.072	15.032	12.270	20
	14	1192	726	−0.053	185	−0.068	15.228	11.979	20
	15	+0.1219	−2.680	−0.084	+5.159	−0.049	−15.420	+11.684	−0.0020
	16	1247	635	−0.103	134	−0.019	15.606	11.386	20
	17	1274	590	−0.106	109	+0.019	15.788	11.085	20
	18	1301	546	−0.092	084	+0.055	15.965	10.780	20
	19	1329	503	−0.060	059	+0.081	16.137	10.472	20
	20	+0.1356	−2.460	−0.019	+5.035	+0.089	−16.303	+10.161	−0.0020
	21	1383	418	+0.024	5.011	+0.078	16.465	9.847	20
	22	1411	376	+0.058	4.987	+0.047	16.621	9.530	20
	23	1438	335	+0.075	964	+0.005	16.772	9.210	20
	24	1466	294	+0.072	942	−0.038	16.918	8.887	20
	25	+0.1493	−2.254	+0.052	+4.919	−0.071	−17.059	+8.561	−0.0020
	26	1520	214	+0.021	898	−0.087	17.194	8.234	20
	27	1548	175	−0.012	876	−0.081	17.324	7.904	21
	28	1575	136	−0.037	856	−0.057	17.448	7.571	21
	29	1603	097	−0.048	835	−0.021	17.567	7.237	21
3	1	+0.1630	−2.059	−0.042	+4.815	+0.017	−17.681	+6.900	−0.0021

月	日	τ	A 長	A 短	B 長(=−dλ)	B 短(=−dε)	C	D	E
		世界時 0h							
		年	″	″	″	″	″	″	s
3	1	+0.1630	−2.059	−0.042	+4.815	+0.017	−17.681	+6.900	−0.0021
	2	1657	2.022	−0.022	796	+0.049	17.789	6.562	21
	3	1685	1.984	+0.005	778	+0.068	17.892	6.221	21
	4	1712	948	+0.035	760	+0.072	17.989	5.880	21
	5	1739	911	+0.059	742	+0.062	18.081	5.536	21
	6	+0.1767	−1.875	+0.074	+4.725	+0.041	−18.167	+5.191	−0.0021
	7	1794	839	+0.079	709	+0.014	18.247	4.844	21
	8	1822	803	+0.071	693	−0.014	18.322	4.496	21
	9	1849	768	+0.053	678	−0.040	18.391	4.147	21
	10	1876	733	+0.027	664	−0.060	18.455	3.797	21
	11	+0.1904	−1.698	−0.005	+4.650	−0.070	−18.512	+3.447	−0.0021
	12	1931	663	−0.039	637	−0.069	18.565	3.095	21
	13	1958	629	−0.070	624	−0.055	18.611	2.742	22
	14	1986	594	−0.093	612	−0.028	18.652	2.388	22
	15	2013	560	−0.102	601	+0.006	18.687	2.034	22
	16	+0.2041	−1.526	−0.095	+4.591	+0.043	−18.717	+1.680	−0.0022
	17	2068	492	−0.071	581	+0.072	18.741	1.326	22
	18	2095	458	−0.035	572	+0.088	18.759	0.971	22
	19	2123	424	+0.006	563	+0.084	18.772	0.616	22
	20	2150	390	+0.042	555	+0.060	18.779	+0.261	22
	21	+0.2177	−1.356	+0.065	+4.548	+0.022	−18.780	−0.094	−0.0022
	22	2205	323	+0.069	541	−0.022	18.776	0.448	22
	23	2232	289	+0.054	536	−0.060	18.766	0.802	22
	24	2260	255	+0.026	530	−0.084	18.750	1.156	22
	25	2287	221	−0.008	526	−0.086	18.729	1.510	23
	26	+0.2314	−1.187	−0.036	+4.522	−0.069	−18.702	−1.863	−0.0023
	27	2342	152	−0.052	519	−0.036	18.670	2.215	23
	28	2369	118	−0.051	516	+0.003	18.632	2.565	23
	29	2396	083	−0.034	514	+0.040	18.589	2.915	23
	30	2424	049	−0.006	513	+0.065	18.540	3.264	23
	31	+0.2451	−1.014	+0.026	+4.512	+0.074	−18.485	−3.612	−0.0023
4	1	2479	0.979	+0.055	512	+0.068	18.425	3.958	23
	2	2506	943	+0.075	513	+0.049	18.360	4.303	23
	3	2533	908	+0.084	514	+0.022	18.290	4.647	23
	4	2561	872	+0.080	516	−0.007	18.214	4.989	23
	5	+0.2588	−0.836	+0.064	+4.518	−0.035	−18.133	−5.329	−0.0023
	6	2616	799	+0.038	521	−0.057	18.046	5.668	23
	7	2643	762	+0.008	524	−0.070	17.954	6.005	23
	8	2670	725	−0.026	528	−0.071	17.857	6.340	24
	9	2698	687	−0.058	532	−0.060	17.755	6.673	24
	10	+0.2725	−0.649	−0.082	+4.537	−0.036	−17.647	−7.003	−0.0024
	11	2752	611	−0.095	542	−0.004	17.535	7.331	24
	12	2780	572	−0.092	548	+0.032	17.417	7.657	24
	13	2807	533	−0.074	555	+0.064	17.294	7.980	24
	14	2835	494	−0.042	561	+0.084	17.166	8.301	24
	15	+0.2862	−0.454	−0.004	+4.568	+0.086	−17.034	−8.619	−0.0024
	16	2889	413	+0.032	576	+0.069	16.896	8.935	24
	17	2917	372	+0.058	584	+0.036	16.754	9.248	24
	18	2944	331	+0.067	592	−0.006	16.607	9.558	24
	19	2971	289	+0.057	601	−0.047	16.455	9.865	24
	20	+0.2999	−0.246	+0.032	+4.610	−0.076	−16.298	−10.170	−0.0024
	21	3026	203	−0.001	619	−0.087	16.137	10.471	24
	22	3054	160	−0.033	628	−0.077	15.971	10.769	24
	23	3081	116	−0.054	638	−0.050	15.801	11.063	24
	24	3108	072	−0.060	648	−0.012	15.626	11.355	24
	25	+0.3136	−0.027	−0.048	+4.658	+0.027	−15.447	−11.643	−0.0025
	26	3163	+0.019	−0.023	669	+0.057	15.263	11.927	25
	27	3190	065	+0.010	679	+0.073	15.075	12.208	25
	28	3218	112	+0.043	690	+0.073	14.883	12.485	25
	29	3245	159	+0.069	701	+0.058	14.687	12.758	25
	30	+0.3273	+0.207	+0.084	+4.712	+0.033	−14.486	−13.028	−0.0025
5	1	+0.3300	+0.255	+0.085	+4.723	+0.002	−14.281	−13.294	−0.0025

月	日	世界時 0h τ	A 長	A 短	B 長 (=−Δε)	B 短 (=−dε)	C	D	E
		年	″	″	″	″	″	″	s
5	1	+0.3300	+0.255	+0.085	+4.723	+0.002	−14.281	−13.294	−0.0025
	2	3327	304	+0.073	734	−0.028	14.073	13.556	25
	3	3355	354	+0.049	745	−0.053	13.861	13.813	25
	4	3382	404	+0.018	756	−0.069	13.644	14.067	25
	5	3410	455	−0.016	768	−0.074	13.424	14.316	25
	6	+0.3437	+0.506	−0.049	+4.779	−0.065	−13.200	−14.561	−0.0025
	7	3464	558	−0.075	790	−0.044	12.973	14.802	25
	8	3492	610	−0.091	801	−0.014	12.742	15.038	25
	9	3519	663	−0.091	812	+0.022	12.507	15.270	25
	10	3546	717	−0.076	823	+0.056	12.269	15.497	25
	11	+0.3574	+0.771	−0.047	+4.834	+0.079	−12.028	−15.720	−0.0025
	12	3601	825	−0.010	845	+0.087	11.783	15.939	25
	13	3629	880	+0.027	855	+0.076	11.535	16.153	25
	14	3656	936	+0.056	866	+0.048	11.284	16.363	25
	15	3683	0.992	+0.070	876	+0.008	11.030	16.567	25
	16	+0.3711	+1.049	+0.065	+4.886	−0.034	−10.773	−16.767	−0.0025
	17	3738	106	+0.043	896	−0.067	10.512	16.962	25
	18	3765	164	+0.010	905	−0.084	10.249	17.153	25
	19	3793	223	−0.024	914	−0.082	9.983	17.338	25
	20	3820	281	−0.051	923	−0.060	9.714	17.518	25
	21	+0.3848	+1.341	−0.063	+4.932	−0.025	−9.443	−17.694	−0.0025
	22	3875	401	−0.058	940	+0.014	9.170	17.864	25
	23	3902	461	−0.038	948	+0.047	8.894	18.029	25
	24	3930	522	−0.007	955	+0.069	8.615	18.189	25
	25	3957	583	+0.028	962	+0.075	8.334	18.344	25
	26	+0.3984	+1.644	+0.058	+4.969	+0.065	−8.051	−18.494	−0.0025
	27	4012	706	+0.078	975	+0.043	7.765	18.638	25
	28	4039	768	+0.085	981	+0.013	7.478	18.777	25
	29	4067	831	+0.078	987	−0.019	7.189	18.911	25
	30	4094	894	+0.058	992	−0.047	6.897	19.040	25
	31	+0.4121	+1.958	+0.029	+4.996	−0.067	−6.603	−19.163	−0.0025
6	1	4149	2.022	−0.006	5.000	−0.076	6.308	19.281	25
	2	4176	086	−0.041	004	−0.071	6.012	19.393	25
	3	4204	151	−0.071	007	−0.053	5.714	19.500	24
	4	4231	216	−0.091	010	−0.024	5.414	19.601	24
	5	+0.4258	+2.281	−0.096	+5.012	+0.012	−5.113	−19.697	−0.0024
	6	4286	346	−0.084	014	+0.047	4.810	19.787	24
	7	4313	412	−0.057	015	+0.075	4.507	19.872	24
	8	4340	478	−0.020	015	+0.088	4.202	19.951	24
	9	4368	544	+0.021	015	+0.083	3.896	20.025	24
	10	+0.4395	+2.611	+0.054	+5.014	+0.059	−3.589	−20.093	−0.0024
	11	4423	677	+0.074	013	+0.021	3.281	155	24
	12	4450	744	+0.074	011	−0.021	2.972	212	24
	13	4477	811	+0.057	009	−0.058	2.662	263	24
	14	4505	878	+0.027	006	−0.081	2.352	309	24
	15	+0.4532	+2.945	−0.009	+5.002	−0.084	−2.041	−20.348	−0.0024
	16	4559	3.013	−0.040	4.998	−0.068	1.730	383	24
	17	4587	080	−0.059	993	−0.037	1.418	411	24
	18	4614	148	−0.061	988	+0.001	1.106	434	24
	19	4642	215	−0.046	982	+0.037	0.794	451	24
	20	+0.4669	+3.283	−0.019	+4.975	+0.063	−0.481	−20.463	−0.0024
	21	4696	350	+0.014	968	+0.074	−0.169	469	24
	22	4724	418	+0.045	960	+0.069	+0.144	469	23
	23	4751	486	+0.069	952	+0.051	0.457	464	23
	24	4778	553	+0.081	943	+0.024	0.770	453	23
	25	+0.4806	+3.621	+0.079	+4.933	−0.008	+1.082	−20.436	−0.0023
	26	4833	688	+0.065	923	−0.037	1.394	414	23
	27	4861	756	+0.039	912	−0.061	1.705	385	23
	28	4888	823	+0.005	901	−0.075	2.016	352	23
	29	4915	890	−0.031	889	−0.075	2.327	312	23
	30	+0.4943	+3.957	−0.065	+4.876	−0.062	+2.637	−20.267	−0.0023
7	1	+0.4970	+4.024	−0.090	+4.863	−0.036	+2.946	−20.216	−0.0023

月	日	世界時 0h τ	A 長	A 短	B 長 (=−Δε)	B 短 (=−dε)	C	D	E
		年	″	″	″	″	″	″	s
7	1	+0.4970	+4.024	−0.090	+4.863	−0.036	+2.946	−20.216	−0.0023
	2	4998	091	−0.102	850	−0.001	3.254	20.160	23
	3	5025	157	−0.096	835	+0.036	3.562	20.098	23
	4	5052	224	−0.073	821	+0.069	3.868	20.031	23
	5	5080	290	−0.037	805	+0.088	4.173	19.958	23
	6	+0.5107	+4.355	+0.005	+4.789	+0.089	+4.477	−19.880	−0.0023
	7	5134	421	+0.045	773	+0.070	4.780	19.796	23
	8	5162	486	+0.071	756	+0.035	5.081	19.706	23
	9	5189	551	+0.080	738	−0.008	5.381	19.612	23
	10	5217	616	+0.069	720	−0.048	5.679	19.512	22
	11	+0.5244	+4.681	+0.042	+4.702	−0.077	+5.976	−19.406	−0.0022
	12	5271	745	+0.007	683	−0.086	6.272	19.295	22
	13	5299	808	−0.027	663	−0.075	6.565	19.178	22
	14	5326	872	−0.050	643	−0.047	6.857	19.056	22
	15	5353	935	−0.057	623	−0.010	7.147	18.929	22
	16	+0.5381	+4.998	−0.047	+4.602	+0.027	+7.436	−18.797	−0.0022
	17	5408	5.060	−0.024	581	+0.056	7.722	18.659	22
	18	5436	122	+0.007	560	+0.072	8.006	18.516	22
	19	5463	183	+0.038	538	+0.071	8.288	18.368	22
	20	5490	244	+0.063	515	+0.057	8.568	18.215	22
	21	+0.5518	+5.305	+0.078	+4.493	+0.032	+8.845	−18.057	−0.0022
	22	5545	365	+0.080	470	+0.002	9.120	17.894	22
	23	5572	425	+0.069	446	−0.028	9.392	17.726	22
	24	5600	484	+0.048	423	−0.054	9.662	17.553	22
	25	5627	542	+0.017	399	−0.071	9.929	17.375	22
	26	+0.5655	+5.600	−0.019	+4.375	−0.076	+10.194	−17.192	−0.0022
	27	5682	658	−0.055	350	−0.068	10.455	17.005	22
	28	5709	716	−0.085	325	−0.047	10.714	16.812	22
	29	5737	772	−0.103	300	−0.015	10.970	16.615	22
	30	5764	828	−0.105	275	+0.023	11.223	16.413	22
	31	+0.5792	+5.884	−0.089	+4.250	+0.059	+11.472	−16.207	−0.0022
8	1	5819	939	−0.058	225	+0.084	11.719	15.996	22
	2	5846	5.994	−0.016	199	+0.092	11.962	15.781	22
	3	5874	6.048	+0.026	173	+0.081	12.202	15.561	22
	4	5901	102	+0.060	148	+0.050	12.439	15.336	22
	5	+0.5928	+6.155	+0.077	+4.122	+0.008	+12.673	−15.107	−0.0022
	6	5956	207	+0.074	096	−0.036	12.902	14.874	22
	7	5983	259	+0.053	070	−0.070	13.129	14.637	22
	8	6011	311	+0.020	044	−0.087	13.351	14.395	22
	9	6038	362	−0.015	4.018	−0.082	13.571	14.150	22
	10	+0.6065	+6.412	−0.041	+3.992	−0.059	+13.786	−13.900	−0.0022
	11	6093	462	−0.053	966	−0.022	13.998	13.646	22
	12	6120	511	−0.048	940	+0.017	14.206	13.389	22
	13	6147	559	−0.027	914	+0.050	14.410	13.127	22
	14	6175	607	+0.003	889	+0.070	14.609	12.862	22
	15	+0.6202	+6.655	+0.035	+3.863	+0.073	+14.805	−12.594	−0.0022
	16	6230	702	+0.062	837	+0.062	14.997	12.321	22
	17	6257	749	+0.079	812	+0.039	15.185	12.045	22
	18	6284	795	+0.084	787	+0.010	15.368	11.765	22
	19	6312	840	+0.076	762	−0.021	15.547	11.482	22
	20	+0.6339	+6.885	+0.057	+3.738	−0.047	+15.722	−11.196	−0.0022
	21	6366	930	+0.028	713	−0.066	15.892	10.906	22
	22	6394	6.974	−0.006	689	−0.075	16.058	10.613	22
	23	6421	7.017	−0.041	665	−0.071	16.220	10.317	22
	24	6449	060	−0.073	641	−0.054	16.377	10.018	22
	25	+0.6476	+7.103	−0.097	+3.618	−0.026	+16.529	−9.717	−0.0022
	26	6503	145	−0.106	595	+0.010	16.677	9.412	23
	27	6531	186	−0.099	573	+0.047	16.820	9.104	23
	28	6558	227	−0.075	550	+0.077	16.959	8.794	23
	29	6585	268	−0.038	529	+0.092	17.093	8.481	23
	30	+0.6613	+7.309	+0.004	+3.507	+0.088	+17.221	−8.165	−0.0023
	31	6640	348	+0.042	486	+0.064	17.345	7.848	23
9	1	+0.6668	+7.388	+0.066	+3.465	+0.025	+17.464	−7.527	−0.0023

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9	1	+0.6668	+7.388	+0.066	+3.465	+0.025	+17.464	−7.527	−0.0023
	2	6695	427	+0.071	445	−0.021	579	7.205	23
	3	6722	466	+0.057	426	−0.060	688	6.880	23
	4	6750	504	+0.028	406	−0.085	792	6.553	23
	5	6777	542	−0.007	388	−0.088	892	6.224	23
	6	+0.6805	+7.580	−0.037	+3.370	−0.070	+17.986	−5.893	−0.0023
	7	6832	618	−0.053	352	−0.036	18.075	5.560	23
	8	6859	655	−0.052	335	+0.004	158	5.225	23
	9	6887	692	−0.034	318	+0.042	237	4.889	23
	10	6914	728	−0.004	302	+0.067	310	4.551	23
	11	+0.6941	+7.765	+0.031	+3.286	+0.076	+18.378	−4.211	−0.0024
	12	6969	801	+0.061	272	+0.068	441	3.871	24
	13	6996	837	+0.082	257	+0.047	499	3.529	24
	14	7024	872	+0.090	243	+0.017	551	3.185	24
	15	7051	908	+0.085	230	−0.014	598	2.841	24
	16	+0.7078	+7.943	+0.067	+3.218	−0.042	+18.640	−2.495	−0.0024
	17	7106	7.979	+0.040	206	−0.062	676	2.149	24
	18	7133	8.014	+0.008	194	−0.073	707	1.802	24
	19	7160	049	−0.027	184	−0.072	732	1.454	24
	20	7188	084	−0.059	174	−0.059	752	1.105	24
	21	+0.7215	+8.119	−0.085	+3.165	−0.035	+18.767	−0.756	−0.0024
	22	7243	154	−0.099	156	−0.002	776	0.407	24
	23	7270	189	−0.099	147	+0.034	779	−0.057	24
	24	7297	224	−0.082	140	+0.067	777	+0.293	25
	25	7325	259	−0.051	133	+0.088	770	0.643	25
	26	+0.7352	+8.294	−0.013	+3.127	+0.091	+18.757	+0.993	−0.0025
	27	7379	329	+0.025	121	+0.075	739	1.343	25
	28	7407	364	+0.054	116	+0.041	715	1.693	25
	29	7434	399	+0.065	112	−0.003	686	2.042	25
	30	7462	435	+0.057	109	−0.047	652	2.391	25
10	1	+0.7489	+8.470	+0.032	+3.106	−0.078	+18.611	+2.739	−0.0025
	2	7516	506	−0.002	104	−0.091	565	3.087	25
	3	7544	542	−0.035	102	−0.080	514	3.434	25
	4	7571	578	−0.056	101	−0.051	457	3.780	25
	5	7599	614	−0.061	100	−0.011	394	4.126	25
	6	+0.7626	+8.651	−0.047	+3.100	+0.030	+18.326	+4.470	−0.0025
	7	7653	688	−0.018	101	+0.062	253	4.813	26
	8	7681	725	+0.019	102	+0.077	174	5.155	26
	9	7708	762	+0.054	104	+0.074	090	5.496	26
	10	7735	800	+0.082	107	+0.056	18.000	5.836	26
	11	+0.7763	+8.838	+0.095	+3.110	+0.027	+17.905	+6.174	−0.0026
	12	7790	877	+0.094	113	−0.005	805	6.510	26
	13	7818	916	+0.079	117	−0.036	699	6.845	26
	14	7845	955	+0.053	122	−0.059	588	7.177	26
	15	7872	8.995	+0.021	127	−0.073	471	7.508	26
	16	+0.7900	+9.035	−0.014	+3.133	−0.074	+17.349	+7.837	−0.0026
	17	7927	076	−0.047	139	−0.064	222	8.163	26
	18	7954	117	−0.074	146	−0.042	17.090	8.487	26
	19	7982	158	−0.091	153	−0.012	16.953	8.809	26
	20	8009	200	−0.094	160	+0.024	810	9.128	26
	21	+0.8037	+9.243	−0.082	+3.168	+0.057	+16.662	+9.445	−0.0026
	22	8064	286	−0.057	176	+0.082	509	9.759	26
	23	8091	329	−0.022	185	+0.091	351	10.070	26
	24	8119	373	+0.015	194	+0.081	188	10.378	27
	25	8146	418	+0.045	203	+0.054	16.019	10.683	27
	26	+0.8173	+9.463	+0.061	+3.212	+0.013	+15.846	+10.986	−0.0027
	27	8201	509	+0.058	222	−0.031	668	11.285	27
	28	8228	555	+0.038	232	−0.068	485	11.581	27
	29	8256	602	+0.006	243	−0.088	298	11.874	27
	30	8283	650	−0.029	253	−0.086	15.106	12.163	27
	31	+0.8310	+9.698	−0.057	+3.264	−0.064	+14.909	+12.448	−0.0027
11	1	+0.8338	+9.747	−0.069	+3.275	−0.026	+14.707	+12.730	−0.0027

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		年	″	″	″	″	″	″	s
11	1	+0.8338	+9.747	−0.069	+3.275	−0.026	+14.707	+12.730	−0.0027
	2	8365	797	−0.062	286	+0.016	14.501	13.008	27
	3	8393	847	−0.037	298	+0.052	14.290	13.282	27
	4	8420	898	0.000	309	+0.075	14.075	13.552	27
	5	8447	9.949	+0.039	321	+0.079	13.855	13.818	27
	6	+0.8475	+10.001	+0.073	+3.332	+0.066	+13.631	+14.080	−0.0027
	7	8502	054	+0.093	344	+0.039	13.403	14.338	27
	8	8529	107	+0.099	355	+0.005	13.170	14.592	27
	9	8557	161	+0.089	367	−0.028	12.933	14.842	27
	10	8584	215	+0.065	379	−0.055	12.693	15.087	27
	11	+0.8612	+10.271	+0.033	+3.390	−0.072	+12.448	+15.327	−0.0027
	12	8639	327	−0.002	401	−0.077	12.199	15.563	27
	13	8666	383	−0.037	413	−0.069	11.947	15.794	27
	14	8694	440	−0.066	424	−0.050	11.690	16.021	27
	15	8721	498	−0.085	435	−0.021	11.429	16.243	27
	16	+0.8748	+10.557	−0.091	+3.446	+0.014	+11.165	+16.460	−0.0027
	17	8776	616	−0.082	456	+0.048	10.898	16.671	27
	18	8803	675	−0.060	467	+0.076	10.627	16.878	27
	19	8831	736	−0.027	477	+0.039	10.352	17.079	27
	20	8858	797	+0.010	487	+0.083	10.074	17.275	27
	21	+0.8885	+10.858	+0.042	+3.497	+0.064	+9.793	+17.466	−0.0027
	22	8913	920	+0.062	506	+0.027	9.509	17.651	27
	23	8940	10.983	+0.064	515	−0.017	9.222	17.831	27
	24	8967	11.046	+0.048	523	−0.056	8.932	18.006	27
	25	8995	110	+0.018	532	−0.082	8.639	18.175	27
	26	+0.9022	+11.174	−0.019	+3.539	−0.088	+8.343	+18.339	−0.0027
	27	9050	239	−0.051	547	−0.073	8.044	18.497	27
	28	9077	304	−0.070	554	−0.040	7.743	18.649	26
	29	9104	370	−0.071	560	+0.001	7.440	18.795	26
	30	9132	437	−0.053	566	+0.040	7.134	18.936	26
12	1	+0.9159	+11.504	−0.020	+3.571	+0.068	+6.826	+19.070	−0.0026
	2	9187	571	+0.019	576	+0.079	6.515	19.199	26
	3	9214	638	+0.057	581	+0.072	6.202	19.322	26
	4	9241	706	+0.084	585	+0.050	5.887	19.438	26
	5	9269	775	+0.097	588	+0.018	5.571	19.549	26
	6	+0.9296	+11.844	+0.093	+3.590	−0.017	+5.252	+19.653	−0.0026
	7	9323	913	+0.075	593	−0.043	4.932	19.752	26
	8	9351	11.982	+0.045	594	−0.069	4.610	19.844	26
	9	9378	12.052	+0.009	595	−0.079	4.286	19.930	26
	10	9406	122	−0.027	595	−0.075	3.961	20.009	26
	11	+0.9433	+12.193	−0.059	+3.595	−0.058	+3.635	+20.083	−0.0026
	12	9460	264	−0.083	594	−0.031	3.308	20.150	26
	13	9488	335	−0.093	592	+0.004	2.979	20.210	26
	14	9515	406	−0.088	589	+0.040	2.649	20.265	26
	15	9542	477	−0.067	586	+0.070	2.318	20.313	26
	16	+0.9570	+12.548	−0.035	+3.582	+0.088	+1.987	+20.355	−0.0026
	17	9597	620	+0.003	578	+0.089	1.655	20.390	26
	18	9625	692	+0.038	573	+0.072	1.322	20.419	25
	19	9652	764	+0.063	567	+0.039	0.989	20.442	25
	20	9679	836	+0.071	560	−0.003	0.655	20.458	25
	21	+0.9707	+12.908	+0.060	+3.553	−0.045	+0.321	+20.467	−0.0025
	22	9734	12.980	+0.033	545	−0.075	−0.013	20.470	25
	23	9761	13.052	−0.003	536	−0.088	0.347	20.467	25
	24	9789	124	−0.038	527	−0.079	0.680	20.457	25
	25	9816	196	−0.063	516	−0.051	1.014	20.440	25
	26	+0.9844	+13.268	−0.071	+3.505	−0.013	−1.347	+20.417	−0.0025
	27	9871	340	−0.061	494	+0.027	1.680	20.388	25
	28	9898	411	−0.034	482	+0.060	2.012	20.352	25
	29	9926	483	+0.003	469	+0.077	2.344	20.310	25
	30	9953	554	+0.041	455	+0.076	2.674	20.261	25
	31	+0.9981	+13.625	+0.072	+3.441	+0.058	−3.004	+20.206	−0.0025
12	32	+1.0008	+13.696	+0.090	+3.426	+0.029	−3.334	+20.145	−0.0025

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		s	s	″	″	h m	h m	″	h m	″
1	1	−0.8192	+0.0100	+ 8.180	+ 0.089	8 42.6	21 7	+20.426	23 25.3	− 1.338
	2	8086	+0.0052	125	088	41.4	19 31	417	21.5	1.481
	3	7980	0.0000	069	081	40.2	17 59	406	17.7	1.623
	4	7875	−0.0046	8.014	070	39.0	16 19	394	14.0	1.765
	5	7770	−0.0072	7.958	057	37.7	14 20	381	10.2	1.906
	6	−0.7666	−0.0075	+ 7.902	+ 0.049	8 36.5	11 45	+20.368	23 6.4	− 2.046
	7	7562	−0.0056	846	052	35.3	9 3	353	23 2.6	2.186
	8	7459	−0.0022	790	061	34.1	6 55	338	22 58.9	2.325
	9	7356	+0.0019	734	071	32.9	5 18	321	55.1	2.464
	10	7254	+0.0058	678	077	31.7	4 0	304	51.3	2.601
	11	−0.7152	+0.0089	+ 7.622	+ 0.077	8 30.4	2 47	+20.286	22 47.5	− 2.738
	12	7051	+0.0104	566	074	29.2	1 30	267	43.7	2.874
	13	6951	+0.0103	510	067	28.0	0 0	247	39.8	3.009
	14	6851	+0.0085	454	062	26.8	22 13	227	36.0	3.143
	15	6752	+0.0051	399	062	25.6	20 8	206	32.2	3.276
	16	−0.6654	+0.0004	+ 7.343	+ 0.069	8 24.4	18 8	+20.184	22 28.3	− 3.409
	17	6557	−0.0050	287	081	23.2	16 25	161	24.5	3.539
	18	6460	−0.0103	232	093	22.0	14 55	138	20.6	3.669
	19	6364	−0.0144	177	102	20.8	13 33	114	16.8	3.798
	20	6269	−0.0164	122	107	19.7	12 13	090	12.9	3.926
	21	−0.6175	−0.0156	+ 7.067	+ 0.107	8 18.5	10 49	+20.065	22 9.0	− 4.052
	22	6082	−0.0120	7.012	103	17.3	9 20	039	5.1	4.177
	23	5990	−0.0062	6.958	095	16.1	7 40	20.013	22 1.2	4.300
	24	5898	+0.0007	904	087	14.9	5 48	19.987	21 57.3	4.422
	25	5807	+0.0069	850	081	13.8	3 44	960	53.4	4.543
	26	−0.5717	+0.0113	+ 6.796	+ 0.080	8 12.6	1 32	+19.932	21 49.5	− 4.662
	27	5629	+0.0128	743	084	11.4	23 28	904	45.5	4.780
	28	5541	+0.0111	690	088	10.3	21 38	876	41.6	4.896
	29	5454	+0.0071	637	091	9.1	20 2	848	37.6	5.010
	30	5368	+0.0019	585	087	7.9	18 33	819	33.6	5.123
	31	−0.5283	−0.0029	+ 6.533	+ 0.076	8 6.8	17 1	+19.790	21 29.6	− 5.235
2	1	5199	−0.0062	482	061	5.6	15 10	760	25.6	5.345
	2	5117	−0.0072	431	048	4.5	12 38	731	21.6	5.453
	3	5035	−0.0058	380	047	3.4	9 36	701	17.6	5.559
	4	4954	−0.0025	330	057	2.2	7 8	671	13.6	5.664
	5	−0.4874	+0.0016	+ 6.281	+ 0.069	8 1.1	5 25	+19.641	21 9.6	− 5.766
	6	4795	+0.0057	232	078	7 59.9	4 6	611	5.5	5.867
	7	4717	+0.0089	183	081	58.8	2 55	581	21 1.5	5.966
	8	4640	+0.0108	135	079	57.7	1 43	551	20 57.4	6.063
	9	4564	+0.0110	087	073	56.6	0 23	521	53.3	6.158
	10	−0.4489	+0.0096	+ 6.040	+ 0.066	7 55.4	22 47	+19.492	20 49.2	− 6.251
	11	4415	+0.0066	5.994	063	54.3	20 53	462	45.1	6.343
	12	4342	+0.0023	948	066	53.2	18 53	433	41.0	6.432
	13	4270	−0.0028	903	074	52.1	17 3	404	36.9	6.519
	14	4199	−0.0082	858	086	50.9	15 27	375	32.8	6.604
	15	−0.4128	−0.0128	+ 5.814	+ 0.097	7 49.8	14 1	+19.347	20 28.6	− 6.687
	16	4059	−0.0158	771	104	48.7	12 41	319	24.5	6.768
	17	3991	−0.0163	728	108	47.6	11 20	291	20.3	6.847
	18	3924	−0.0141	686	107	46.4	9 57	264	16.1	6.924
	19	3857	−0.0093	644	101	45.3	8 27	237	11.9	6.998
	20	−0.3791	−0.0029	+ 5.604	+ 0.092	7 44.2	6 48	+19.211	20 7.7	− 7.071
	21	3726	+0.0035	564	081	43.0	4 52	185	20 3.5	7.141
	22	3662	+0.0038	524	074	41.9	2 37	159	19 59.3	7.208
	23	3599	+0.0115	486	075	40.8	0 16	134	55.1	7.274
	24	3537	+0.0111	448	081	39.6	22 10	110	50.9	7.337
	25	−0.3475	+0.0080	+ 5.411	+ 0.088	7 38.5	20 25	+19.087	19 46.6	− 7.398
	26	3414	+0.0031	375	089	37.3	18 53	064	42.4	7.457
	27	3354	−0.0019	339	083	35.1	17 26	042	38.1	7.513
	28	3295	−0.0057	304	068	35.0	15 47	020	33.8	7.567
	29	3236	−0.0074	270	052	33.8	13 35	19.000	29.6	7.619
3	1	−0.3178	−0.0065	+ 5.237	+ 0.046	7 32.6	10 33	+18.980	19 25.3	− 7.668

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3	1	−0.3178	−0.0065	+ 5.237	+ 0.046	7 32.6	10 33	+18.980	19 25.3	− 7.668
	2	3120	−0.0034	205	054	31.4	7 39	961	21.0	7.715
	3	3063	+0.0008	173	068	30.2	5 42	943	16.7	7.759
	4	3007	+0.0053	143	080	29.0	4 17	925	12.4	7.801
	5	2951	+0.0091	113	085	27.8	3 5	909	8.1	7.841
	6	−0.2896	+0.0114	+ 5.033	+ 0.085	7 26.6	1 55	+18.894	19 3.8	− 7.878
	7	2841	+0.0120	055	080	25.3	0 40	879	18 59.5	7.913
	8	2786	+0.0109	028	073	24.1	23 14	865	55.2	7.946
	9	2732	+0.0082	5.001	066	22.8	21 31	853	50.8	7.976
	10	2678	+0.0042	4.975	066	21.5	19 38	841	46.5	8.003
	11	−0.2624	−0.0007	+ 4.950	+ 0.071	7 20.2	17 45	+18.830	18 42.2	− 8.028
	12	2571	−0.0059	926	079	18.9	16 3	821	37.9	8.051
	13	2518	−0.0107	902	088	17.6	14 33	812	33.5	8.071
	14	2466	−0.0142	880	097	16.3	13 8	804	29.2	8.089
	15	2413	−0.0156	858	102	14.9	11 46	798	24.9	8.104
	16	−0.2361	−0.0145	+ 4.837	+ 0.103	7 13.5	10 23	+18.792	18 20.5	− 8.117
	17	2309	−0.0109	817	101	12.2	8 58	788	16.2	8.128
	18	2257	−0.0054	798	094	10.8	7 27	785	11.9	8.136
	19	2205	+0.0009	780	084	9.3	5 44	782	7.5	8.141
	20	2153	+0.0064	763	073	7.9	3 41	781	18 3.2	8.144
	21	−0.2101	+0.0099	+ 4.746	+ 0.069	7 6.4	1 15	+18.781	17 58.9	− 8.145
	22	2050	+0.0105	730	072	4.9	22 49	781	54.5	8.143
	23	1998	+0.0083	715	081	3.4	20 48	783	50.2	8.138
	24	1946	+0.0039	701	088	1.9	19 8	786	45.9	8.131
	25	1894	−0.0012	688	087	7 0.4	17 40	790	41.6	8.122
	26	−0.1842	−0.0055	+ 4.675	+ 0.078	6 58.8	16 9	+18.795	17 37.3	− 8.110
	27	1790	−0.0080	663	063	57.2	14 19	801	33.0	8.096
	28	1737	−0.0078	652	051	55.6	11 46	808	28.7	8.080
	29	1684	−0.0052	642	053	54.0	8 43	816	24.4	8.061
	30	1631	−0.0010	633	065	52.3	6 22	825	20.1	8.040
	31	−0.1578	+0.0040	+ 4.625	+ 0.079	6 50.7	4 43	+18.835	17 15.8	− 8.017
4	1	1524	+0.0084	617	088	49.0	3 24	846	11.5	7.991
	2	1469	+0.0115	610	090	47.2	2 13	858	7.2	7.963
	3	1415	+0.0129	604	087	45.5	1 0	871	17 3.0	7.932
	4	1360	+0.0122	599	080	43.7	23 39	885	16 58.7	7.899
	5	−0.1304	+0.0098	+ 4.594	+ 0.073	6 41.9	22 5	+18.900	16 54.5	− 7.864
	6	1248	+0.0059	591	069	40.1	20 16	915	50.3	7.826
	7	1192	+0.0011	588	071	38.3	18 25	932	46.0	7.786
	8	1135	−0.0040	585	076	36.4	16 39	949	41.8	7.744
	9	1078	−0.0088	584	083	34.5	15 4	967	37.6	7.700
	10	−0.1020	−0.0125	+ 4.583	+ 0.089	6 32.6	13 35	+18.986	16 33.4	− 7.653
	11	0961	−0.0145	583	094	30.7	12 9	19.006	29.3	7.604
	12	0902	−0.0141	584	098	28.7	10 43	026	25.1	7.553
	13	0842	−0.0113	586	097	26.7	9 17	047	20.9	7.500
	14	0781	−0.0065	588	094	24.7	7 47	069	16.8	7.444
	15	−0.0720	−0.0007	+ 4.591	+ 0.086	6 22.7	6 11	+19.091	16 12.6	− 7.337
	16	0658	+0.0049	595	076	20.6	4 20	114	8.5	7.327
	17	0595	+0.0089	599	069	18.6	2 8	137	4.4	7.266
	18	0532	+0.0103	604	067	16.5	23 39	161	16 0.3	7.202
	19	0467	+0.0088	610	074	14.4	21 23	186	15 56.2	7.135
	20	−0.0402	+0.0049	+ 4.616	+ 0.083	6 12.2	19 31	+19.211	15 52.2	− 7.068
	21	0336	−0.0002	623	087	10.1	17 57	237	48.1	6.998
	22	0270	−0.0051	631	084	7.9	16 27	263	44.0	6.926
	23	0202	−0.0083	640	074	5.7	14 49	289	40.0	6.853
	24	0134	−0.0092	649	061	3.5	12 44	316	36.0	6.777
	25	−0.0065	−0.0074	+ 4.658	+ 0.055	6 1.3	10 4	+19.343	15 32.0	− 6.699
	26	+0.0005	−0.0035	669	062	5 59.1	7 27	371	28.0	6.619
	27	0075	+0.0016	680	074	56.8	5 28	398	24.0	6.538
	28	0147	+0.0067	691	085	54.5	3 58	426	20.0	6.454
	29	0219	+0.0106	704	091	52.2	2 40	454	16.1	6.369
	30	+0.0292	+0.0128	+ 4.717	+ 0.090	5 49.9	1 25	+19.483	15 12.1	− 6.282
5	1	+0.0367	+0.0130	+ 4.730	+ 0.085	5 47.6	0 6	+19.511	15 8.2	− 6.193

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5 1	+0.0367	+0.0130	+ 4.730	+ 0.085	5 47.6	0 6	+ 19.511	15 8.2	− 6.193
2	0442	+0.0111	744	078	45.3	22 36	540	4.3	6.103
3	0518	+0.0076	758	072	42.9	20 52	568	15 0.4	6.011
4	0594	+0.0028	773	071	40.6	18 59	597	14 56.5	5.917
5	0672	−0.0024	789	075	38.2	17 12	625	52.6	5.822
6	+0.0751	−0.0075	+ 4.805	+ 0.081	5 35.8	15 33	+ 19.654	14 48.8	− 5.725
7	0830	−0.0115	822	088	33.4	14 2	682	44.9	5.626
8	0910	−0.0139	840	092	31.0	12 34	710	41.1	5.526
9	0991	−0.0140	858	094	28.6	11 6	738	37.3	5.424
10	1073	−0.0117	876	094	26.2	9 35	766	33.5	5.321
11	+0.1156	−0.0072	+ 4.895	+ 0.092	5 23.8	8 3	+ 19.794	14 29.7	− 5.216
12	1240	−0.0015	914	088	21.3	6 26	822	25.9	5.110
13	1324	+0.0042	934	081	18.9	4 41	849	22.1	5.002
14	1410	+0.0086	955	074	16.5	2 42	876	18.4	4.893
15	1496	+0.0107	976	071	14.0	0 27	903	14.6	4.783
16	+0.1583	+0.0100	+ 4.997	+ 0.073	5 11.5	22 10	+ 19.930	14 10.9	− 4.672
17	1671	+0.0066	5.019	079	9.1	20 10	956	7.2	4.559
18	1760	+0.0016	041	085	6.6	18 28	19.982	14 3.4	4.445
19	1850	−0.0037	064	085	4.1	16 55	20.007	13 59.7	4.330
20	1940	−0.0078	087	079	5 1.7	15 19	032	56.0	4.213
21	+0.2031	−0.0097	+ 5.110	+ 0.068	4 59.2	13 27	+ 20.056	13 52.4	− 4.096
22	2123	−0.0090	134	060	56.7	11 8	080	48.7	3.977
23	2215	−0.0058	159	060	54.2	8 35	103	45.0	3.857
24	2308	−0.0010	183	069	51.7	6 22	126	41.4	3.736
25	2402	+0.0042	209	080	49.3	4 40	148	37.7	3.614
26	+0.2496	+0.0088	+ 5.234	+ 0.087	4 46.8	3 14	+ 20.170	13 34.1	− 3.492
27	2591	+0.0119	260	088	44.3	1 56	191	30.5	3.368
28	2687	+0.0130	286	086	41.8	0 35	212	26.9	3.243
29	2783	+0.0119	312	079	39.4	23 6	232	23.3	3.118
30	2880	+0.0089	339	075	36.9	21 25	251	19.7	2.991
31	+0.2977	+0.0044	+ 5.366	+ 0.072	4 34.4	19 34	+ 20.269	13 16.1	− 2.864
6 1	3075	−0.0009	394	076	31.9	17 42	287	12.5	2.736
2	3174	−0.0063	422	083	29.5	16 0	304	8.9	2.607
3	3273	−0.0109	450	089	27.0	14 27	320	5.3	2.478
4	3373	−0.0139	478	094	24.6	13 0	335	13 1.8	2.348
5	+0.3473	−0.0147	+ 5.507	+ 0.096	4 22.1	11 32	+ 20.350	12 58.2	− 2.217
6	3573	−0.0129	536	096	19.7	10 3	364	54.7	2.086
7	3674	−0.0087	565	094	17.3	8 29	377	51.1	1.954
8	3775	−0.0030	594	091	14.8	6 50	389	47.6	1.822
9	3877	+0.0031	623	085	12.4	5 4	400	44.0	1.689
10	+0.3979	+0.0083	+ 5.653	+ 0.079	4 10.0	3 9	+ 20.411	12 40.5	− 1.556
11	4081	+0.0113	683	076	7.6	1 4	420	37.0	1.423
12	4183	+0.0114	713	077	5.2	22 57	429	33.5	1.289
13	4286	+0.0087	744	081	2.8	20 58	437	30.0	1.155
14	4389	+0.0041	774	085	4 0.4	19 13	444	26.4	1.020
15	+0.4492	−0.0014	+ 5.805	+ 0.085	3 58.0	17 35	+ 20.450	12 22.9	− 0.885
16	4595	−0.0062	836	079	55.7	15 57	456	19.4	0.750
17	4698	−0.0090	867	069	53.3	14 9	460	15.9	0.615
18	4802	−0.0093	898	061	51.0	11 56	464	12.4	0.479
19	4906	−0.0071	929	058	48.7	9 26	467	8.9	0.344
20	+0.5010	−0.0029	+ 5.961	+ 0.066	3 46.3	7 7	+ 20.469	12 5.4	− 0.208
21	5114	+0.0022	5.992	075	44.0	5 17	470	12 1.9	− 0.073
22	5218	+0.0070	6.024	083	41.7	3 47	470	11 58.4	+ 0.063
23	5322	+0.0106	056	086	39.4	2 26	469	54.9	0.198
24	5426	+0.0124	088	085	37.2	1 5	467	51.4	0.334
25	+0.5529	+0.0122	+ 6.120	+ 0.080	3 34.9	23 38	+ 20.465	11 47.9	+ 0.469
26	5633	+0.0099	152	075	32.6	22 0	461	44.4	0.604
27	5736	+0.0059	184	072	30.4	20 9	457	40.9	0.739
28	5839	+0.0008	216	075	28.2	18 16	451	37.4	0.874
29	5942	−0.0048	248	082	26.0	16 30	445	33.9	1.009
30	+0.6045	−0.0100	+ 6.280	+ 0.089	3 23.8	14 54	+ 20.438	11 30.4	+ 1.144
7 1	+0.6147	−0.0138	+ 6.312	+ 0.098	3 21.6	13 26	+ 20.430	11 26.8	+ 1.278

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	s	s	″	″	h m	h m	″	h m	″
7 1	+0.6147	−0.0138	+ 6.312	+ 0.098	3 21.6	13 26	+ 20.430	11 26.8	+ 1.278
2	0.6249	−0.0156	345	102	19.4	12 2	421	23.3	1.411
3	0.6351	−0.0147	377	103	17.3	10 37	411	19.8	1.545
4	0.6453	−0.0112	409	100	15.1	9 7	401	16.3	1.678
5	0.6555	−0.0056	441	095	13.0	7 31	390	12.8	1.810
6	+0.6656	+0.0008	+ 6.474	+ 0.088	3 10.9	5 46	+ 20.378	11 9.2	+ 1.942
7	0.6756	+0.0068	506	083	8.8	3 50	365	5.7	2.073
8	0.6857	+0.0109	538	079	6.7	1 44	351	11 2.2	2.204
9	0.6957	+0.0122	570	081	4.6	23 38	337	10 58.6	2.334
10	0.7056	+0.0106	602	084	2.6	21 40	321	55.1	2.463
11	+0.7155	+0.0064	+ 6.634	+ 0.088	3 0.5	19 55	+ 20.305	10 51.5	+ 2.592
12	0.7253	+0.0011	666	087	2 58.5	18 19	288	48.0	2.720
13	0.7351	−0.0041	698	079	56.5	16 42	271	44.4	2.848
14	0.7448	−0.0076	730	069	54.5	14 55	253	40.9	2.974
15	0.7545	−0.0088	762	058	52.5	12 40	234	37.3	3.100
16	+0.7641	−0.0073	+ 6.794	+ 0.054	2 50.6	10 1	+ 20.214	10 33.7	+ 3.225
17	0.7737	−0.0037	826	062	48.6	7 33	194	30.1	3.349
18	0.7832	+0.0010	857	071	46.7	5 39	173	26.5	3.472
19	0.7926	+0.0058	889	081	44.8	4 8	151	22.9	3.594
20	0.8019	+0.0097	920	085	42.9	2 47	130	19.3	3.715
21	+0.8112	+0.0120	+ 6.952	+ 0.084	2 41.1	1 29	+ 20.107	10 15.6	+ 3.836
22	0.8204	+0.0123	6.983	080	39.2	0 5	084	12.0	3.955
23	0.8295	+0.0106	7.014	075	37.4	22 31	060	8.3	4.073
24	0.8386	+0.0073	045	072	35.6	20 46	036	4.7	4.190
25	0.8476	+0.0026	076	073	33.8	18 53	20.012	10 1.0	4.306
26	+0.8565	−0.0029	+ 7.107	+ 0.079	2 32.0	17 4	+ 19.987	9 57.3	+ 4.421
27	0.8653	−0.0084	137	087	30.2	15 25	962	53.7	4.534
28	0.8741	−0.0130	168	097	28.5	13 55	936	50.0	4.646
29	0.8828	−0.0157	198	103	26.8	12 32	910	46.3	4.757
30	0.8914	−0.0161	228	107	25.1	11 10	883	42.6	4.867
31	+0.9000	−0.0137	+ 7.259	+ 0.107	2 23.4	9 46	+ 19.856	9 38.8	+ 4.975
8 1	0.9084	−0.0088	289	102	21.7	8 18	829	35.1	5.082
2	0.9168	−0.0025	319	094	20.1	6 40	802	31.3	5.188
3	0.9251	+0.0040	348	085	18.4	4 49	774	27.6	5.292
4	0.9333	+0.0091	378	078	16.8	2 40	746	23.8	5.395
5	+0.9415	+0.0117	+ 7.408	+ 0.078	2 15.2	0 23	+ 19.718	9 20.0	+ 5.496
6	0.9495	+0.0113	437	082	13.7	22 16	690	16.2	5.596
7	0.9575	+0.0081	466	088	12.1	20 28	662	12.4	5.694
8	0.9654	+0.0031	495	089	10.6	18 52	634	8.6	5.790
9	0.9732	−0.0022	524	084	9.1	17 20	605	4.8	5.885
10	+0.9809	−0.0063	+ 7.553	+ 0.071	2 7.6	15 40	+ 19.577	9 1.0	+ 5.979
11	0.9885	−0.0082	582	057	6.2	13 30	549	8 57.1	6.071
12	0.9961	−0.0073	610	051	4.7	10 42	521	53.2	6.161
13	1.0035	−0.0042	639	057	3.3	7 54	493	49.3	6.249
14	1.0109	+0.0004	667	070	1.9	5 51	465	45.4	6.336
15	+1.0182	+0.0053	+ 7.695	+ 0.081	2 0.5	4 18	+ 19.437	8 41.5	+ 6.421
16	1.0254	+0.0095	723	087	1 59.2	2 59	409	37.6	6.504
17	1.0326	+0.0121	751	088	57.9	1 44	382	33.7	6.585
18	1.0396	+0.0129	779	085	56.6	0 26	354	29.8	6.665
19	1.0466	+0.0116	807	078	55.3	23 0	327	25.8	6.742
20	+1.0535	+0.0087	+ 7.834	+ 0.074	1 54.0	21 22	+ 19.301	8 21.8	+ 6.818
21	1.0603	+0.0043	862	071	52.7	19 33	274	17.8	6.892
22	1.0670	−0.0009	889	075	51.5	17 43	248	13.8	6.964
23	1.0737	−0.0063	917	082	50.3	16 0	223	9.8	7.034
24	1.0803	−0.0112	944	091	49.1	14 26	198	5.8	7.102
25	+1.0868	−0.0148	+ 7.971	+ 0.100	1 48.0	13 1	+ 19.174	8 1.8	+ 7.168
26	1.0932	−0.0163	7.998	107	46.8	11 39	150	7 57.8	7.232
27	1.0996	−0.0152	8.025	110	45.7	10 19	127	53.7	7.295
28	1.1059	−0.0115	052	107	44.7	8 57	104	49.6	7.355
29	1.1121	−0.0058	079	100	43.6	7 29	081	45.6	7.413
30	+1.1183	+0.0007	+ 8.106	+ 0.088	1 42.5	5 49	+ 19.059	7 41.5	+ 7.469
31	1.1244	+0.0064	133	076	41.5	3 48	038	37.4	7.522
9 1	+1.1305	+0.0101	+ 8.160	+ 0.070	1 40.5	1 22	+ 19.018	7 33.3	+ 7.574

月	日	世界時 0h f 長	f 短	g 長	g 短	G 長	G 短	h	H	i
		s	s	″	″	h m	h m	″	h m	″
9	1	+1.1305	+0.0101	+ 8.160	+ 0.070	1 40.5	1 22	+ 19.018	7 33.3	+ 7.574
	2	1365	+0.0108	187	074	39.6	22 55	18.998	29.2	624
	3	1425	+0.0087	214	083	38.6	20 52	979	25.0	671
	4	1484	+0.0042	241	089	37.7	19 13	961	20.9	716
	5	1542	−0.0011	268	088	36.8	17 42	943	16.7	759
	6	+1.1600	−0.0056	+ 8.295	+ 0.079	1 35.9	16 10	+ 18.926	7 12.6	+ 7.800
	7	1657	−0.0082	322	064	35.0	14 17	911	8.4	839
	8	1714	−0.0079	350	052	34.2	11 41	895	4.2	875
	9	1771	−0.0052	377	053	33.3	8 36	881	7 0.0	909
	10	1827	−0.0006	404	067	32.5	6 13	868	6 55.8	941
	11	+1.1882	+0.0047	+ 8.431	+ 0.082	1 31.8	4 32	+ 18.855	6 51.6	+ 7.971
	12	1938	+0.0094	459	092	31.0	3 12	843	47.4	7.998
	13	1993	+0.0126	487	095	30.3	1 58	833	43.2	8.023
	14	2047	+0.0138	514	092	29.6	0 44	823	39.0	046
	15	2101	+0.0130	542	086	28.9	23 23	814	34.7	066
	16	+1.2156	+0.0103	+ 8.570	+ 0.079	1 28.2	21 53	+ 18.806	6 30.5	+ 8.084
	17	2210	+0.0062	599	074	27.6	20 12	799	26.3	100
	18	2264	+0.0012	627	074	26.9	18 24	793	22.0	113
	19	2317	−0.0041	656	077	26.3	16 38	789	17.8	124
	20	2371	−0.0091	685	084	25.7	15 0	785	13.5	133
	21	+1.2424	−0.0131	+ 8.714	+ 0.092	1 25.2	13 30	+ 18.782	6 9.2	+ 8.139
	22	2478	−0.0152	743	100	24.6	12 5	780	5.0	143
	23	2531	−0.0151	773	105	24.1	10 44	780	6 0.7	144
	24	2584	−0.0126	803	105	23.6	9 24	780	5 56.4	144
	25	2638	−0.0078	833	102	23.1	8 1	781	52.2	140
	26	+1.2691	−0.0019	+ 8.864	+ 0.092	1 22.6	6 32	+ 18.784	5 47.9	+ 8.135
	27	2745	+0.0039	895	079	22.2	4 45	787	43.6	127
	28	2799	+0.0082	926	067	21.8	2 29	792	39.3	117
	29	2853	+0.0099	957	065	21.3	23 49	797	35.1	104
	30	2907	+0.0087	8.989	074	20.9	21 22	804	30.8	089
10	1	+1.2962	+0.0049	+ 9.022	+ 0.084	1 20.6	19 29	+ 18.812	5 26.5	+ 8.071
	2	3017	−0.0002	054	091	20.2	17 56	820	22.3	051
	3	3072	−0.0053	088	088	19.8	16 27	830	18.0	029
	4	3127	−0.0086	121	076	19.5	14 49	840	13.7	8.004
	5	3183	−0.0094	155	062	19.2	12 40	852	9.4	7.977
	6	+1.3239	−0.0072	+ 9.190	+ 0.056	1 18.9	9 49	+ 18.864	5 5.2	+ 7.948
	7	3295	−0.0028	225	064	18.6	7 6	877	5 0.9	916
	8	3352	+0.0029	260	079	18.3	5 5	891	4 56.7	882
	9	3409	+0.0083	296	092	18.0	3 35	907	52.4	845
	10	3467	+0.0125	333	099	17.8	2 18	923	48.2	806
	11	+1.3526	+0.0146	+ 9.370	+ 0.099	1 17.5	1 4	+ 18.940	4 43.9	+ 7.765
	12	3585	+0.0144	407	094	17.3	23 47	957	39.7	722
	13	3645	+0.0121	445	087	17.1	22 22	976	35.4	676
	14	3705	+0.0081	484	079	16.9	20 47	18.996	31.2	628
	15	3766	+0.0032	523	076	16.7	19 4	19.016	27.0	577
	16	+1.3827	−0.0021	+ 9.563	+ 0.076	1 16.5	17 18	+ 19.037	4 22.8	+ 7.524
	17	3889	−0.0072	603	079	16.3	15 34	059	18.6	469
	18	3952	−0.0113	644	085	16.2	13 59	081	14.4	412
	19	4016	−0.0139	686	091	16.0	12 29	105	10.2	352
	20	4080	−0.0144	728	098	15.8	11 4	128	6.0	290
	21	+1.4145	−0.0126	+ 9.770	+ 0.100	1 15.7	9 41	+ 19.153	4 1.8	+ 7.226
	22	4211	−0.0087	814	100	15.5	8 19	178	3 57.7	160
	23	4277	−0.0033	858	094	15.4	6 53	203	53.5	091
	24	4345	+0.0023	902	083	15.3	5 17	229	49.3	7.021
	25	4413	+0.0070	948	071	15.1	3 19	255	45.2	6.948
	26	+1.4482	+0.0094	+ 9.993	+ 0.062	1 15.0	0 48	+ 19.282	3 41.1	+ 6.872
	27	4552	+0.0090	10.040	066	14.9	22 8	309	37.0	795
	28	4623	+0.0058	087	078	14.8	19 57	337	32.8	716
	29	4696	+0.0008	135	088	14.6	18 14	365	28.7	635
	30	4769	−0.0045	184	091	14.5	16 45	393	24.6	551
	31	+1.4843	−0.0087	+10.233	+ 0.085	1 14.4	15 13	+ 19.422	3 20.6	+ 6.466
11	1	+1.4918	−0.0106	+10.283	+ 0.074	1 14.3	13 24	+ 19.451	3 16.5	+ 6.379

月	日	世界時 0h f 長	f 短	g 長	g 短	G 長	G 短	h	H	i
		s	s	″	″	h m	h m	″	h m	″
11	1	+1.4918	−0.0106	+10.283	+ 0.074	1 14.3	13 24	+19.451	3 16.5	+ 6.379
	2	4994	−0.0094	333	063	14.2	11 3	480	12.4	6.289
	3	5071	−0.0056	384	063	14.1	8 20	510	8.4	6.198
	4	5149	0.0000	436	075	14.0	6 0	539	4.3	6.104
	5	5227	+0.0060	488	088	13.8	4 14	568	3 0.3	6.009
	6	+1.5307	+0.0111	+10.541	+ 0.098	1 13.7	2 48	+19.598	2 56.3	+ 5.912
	7	5388	+0.0143	595	101	13.6	1 30	627	52.3	5.813
	8	5470	+0.0151	649	099	13.5	0 12	656	48.3	5.712
	9	5552	+0.0136	704	093	13.3	22 50	686	44.3	5.609
	10	5636	+0.0100	760	085	13.2	21 20	716	40.3	5.505
	11	+1.5721	+0.0051	+10.816	+ 0.079	1 13.1	19 39	+19.745	2 36.3	+ 5.399
	12	5806	−0.0003	872	077	12.9	17 54	774	32.4	5.291
	13	5893	−0.0056	930	079	12.8	16 8	803	28.4	5.181
	14	5981	−0.0101	10.987	083	12.6	14 28	833	24.5	5.070
	15	6069	−0.0131	11.046	088	12.5	12 54	861	20.5	4.957
	16	+1.6159	−0.0140	+11.105	+ 0.093	1 12.3	11 25	+19.889	2 16.6	+ 4.842
	17	6249	−0.0126	164	095	12.2	9 58	917	12.7	4.726
	18	6341	−0.0092	224	096	12.0	8 33	944	8.8	4.609
	19	6433	−0.0041	285	093	11.8	7 7	971	4.9	4.490
	20	6526	+0.0015	346	087	11.6	5 34	19.998	2 1.0	4.369
	21	+1.6620	+0.0064	+11.407	+ 0.076	1 11.4	3 46	+20.024	1 57.1	+ 4.247
	22	6716	+0.0095	469	067	11.2	1 34	050	53.3	4.124
	23	6812	+0.0098	532	066	11.0	23 2	075	49.4	3.999
	24	6909	+0.0073	594	074	10.8	20 42	100	45.5	3.873
	25	7007	+0.0027	658	084	10.5	18 49	124	41.7	3.746
	26	+1.7106	−0.0029	+11.721	+ 0.090	1 10.3	17 12	+20.148	1 37.9	+ 3.618
	27	7206	−0.0078	785	089	10.1	15 41	171	34.0	3.489
	28	7306	−0.0107	850	081	9.8	14 0	193	30.2	3.358
	29	7407	−0.0109	914	071	9.6	11 58	214	26.4	3.227
	30	7509	−0.0080	11.980	066	9.3	9 31	235	22.6	3.094
12	1	+1.7612	−0.0031	+ 12.045	+ 0.071	1 9.0	7 6	+20.255	1 18.8	+ 2.960
	2	7715	+0.0030	111	082	8.7	5 5	274	15.0	2.825
	3	7819	+0.0087	177	092	8.4	3 27	293	11.2	2.689
	4	7923	+0.0129	243	098	8.1	2 3	310	7.4	2.553
	5	8028	+0.0149	309	099	7.8	0 41	327	1 3.6	2.416
	6	+1.8134	+0.0143	+12.376	+ 0.095	1 7.5	23 19	+20.343	0 59.9	+ 2.278
	7	8240	+0.0114	443	089	7.1	21 50	358	56.1	2.139
	8	8347	+0.0069	510	083	6.8	20 12	372	52.3	1.999
	9	8454	+0.0014	577	080	6.4	18 27	386	48.6	1.859
	10	8561	−0.0042	644	079	6.1	16 40	398	44.8	1.718
	11	+1.8669	−0.0091	+12.712	+ 0.083	1 5.7	14 58	+20.409	0 41.0	+ 1.577
	12	8777	−0.0127	779	088	5.3	13 22	420	37.3	1.435
	13	8886	−0.0142	847	093	5.0	11 51	429	33.5	1.292
	14	8995	−0.0134	914	096	4.6	10 23	437	29.8	1.149
	15	9105	−0.0103	12.982	097	4.1	8 56	445	26.1	1.006
	16	+1.9214	−0.0054	+13.050	+ 0.095	1 3.7	7 27	+20.452	0 22.3	+ 0.862
	17	9324	+0.0004	117	089	3.3	5 54	458	18.6	0.718
	18	9434	+0.0058	185	081	2.9	4 9	462	14.8	0.573
	19	9545	+0.0096	253	074	2.4	2 7	466	11.1	0.429
	20	9656	+0.0109	320	071	2.0	23 49	469	7.3	0.284
	21	+1.9766	+0.0092	+13.388	+ 0.075	1 1.6	21 34	+20.470	0 3.6	+ 0.139
	22	9877	+0.0051	455	083	1.1	19 36	470	23 59.9	− 0.005
	23	1.9987	−0.0004	522	088	0.6	17 53	470	56.1	0.150
	24	2.0098	−0.0058	589	087	1 0.2	16 18	468	52.4	0.295
	25	0208	−0.0096	656	081	0 59.7	14 37	465	48.7	0.439
	26	+2.0318	−0.0109	+13.723	+ 0.073	0 59.2	12 41	+20.461	23 44.9	− 0.584
	27	0428	−0.0093	789	066	58.7	10 23	457	41.2	0.728
	28	0538	−0.0052	856	069	58.2	7 58	451	37.4	0.872
	29	0647	+0.0004	922	077	57.7	5 52	445	33.7	1.016
	30	0757	+0.0052	13.987	085	57.2	4 7	437	29.9	1.160
	31	+2.0866	+0.0110	+14.053	+ 0.092	0 56.7	2 37	+20.429	23 26.2	− 1.303
12	32	+2.0975	+0.0138	+14.118	+ 0.095	0 56.2	1 12	+20.419	23 22.4	− 1.446

恒星日日常數 (10恒星日間隔)

平均恒星時 6h 34m 12s ニ於ケル値

世界時		τ	A	B	C	D	E	P	Q
月	日	年	"	"	"	"	s		
I	0.00	− 0.0040	− 5.399	+ 6.219	− 2.756	+ 20.248	− 0.0020	− 0.892	− 0.144
	9.97	+ 0.0233	4.720	6.058	5.990	19.401	20	855	314
	19.95	0506	4.079	5.342	9.035	17.945	20	791	473
	29.92	0779	3.493	5.588	11.794	15.931	20	703	619
II	8.89	1052	2.969	5.320	14.176	13.425	20	594	745
	18.86	+ 0.1325	− 2.509	+ 5.062	− 16.114	+ 10.514	− 0.0020	− 0.466	− 0.848
	28.84	1598	2.103	4.839	17.547	7.292	21	324	926
III	9.81	1871	1.739	4.666	18.443	3.864	21	172	975
	19.78	2144	1.398	4.557	18.778	+ 0.338	22	− 0.015	996
	29.75	2417	1.057	4.513	18.553	− 3.178	23	+ 0.142	987
IV	8.73	+ 0.2690	− 0.698	+ 4.531	− 17.784	− 6.582	− 0.0024	+ 0.296	− 0.949
	18.70	2963	− 0.302	4.598	16.502	9.773	24	440	883
	28.67	3236	+ 0.144	4.697	14.751	12.668	25	572	791
V	8.65	3509	0.644	4.808	12.590	15.189	25	687	677
	18.62	3782	1.200	4.911	10.085	17.268	25	783	543
	28.59	+ 0.4055	+ 1.805	+ 4.984	− 7.307	− 18.857	− 0.0025	+ 0.857	− 0.394
VI	7.56	4328	2.449	5.015	4.335	19.917	24	906	0.234
	17.54	4601	3.116	4.990	− 1.251	20.424	24	930	− 0.068
	27.51	4875	3.790	4.907	+ 1.863	20.369	23	928	+ 0.101
VII	7.48	5148	4.452	4.765	4.925	19.754	23	900	267
	17.45	+ 0.5421	+ 5.088	+ 4.571	+ 7.851	− 18.595	− 0.0022	+ 0.847	+ 0.425
	27.43	5694	5.683	4.340	10.566	16.924	22	770	571
VIII	6.40	5967	6.228	4.085	12.993	14.780	22	672	702
	16.37	6240	6.720	3.828	15.068	12.218	22	554	812
	26.34	6513	7.159	3.587	16.727	9.306	23	421	900
IX	5.32	+ 0.6786	+ 7.554	+ 3.382	+ 17.923	− 6.119	− 0.0023	+ 0.276	+ 0.962
	15.29	7059	7.918	3.226	18.611	− 2.741	24	+ 0.124	0.996
	25.26	7332	8.268	3.131	18.768	+ 0.735	25	− 0.033	1.002
X	5.24	7605	8.623	3.100	18.378	4.207	25	189	0.978
	15.21	7878	9.003	3.128	17.446	7.576	26	339	926
	25.18	+ 0.8151	+ 9.426	+ 3.205	+ 15.988	+ 10.738	− 0.0027	− 0.479	+ 0.846
XI	4.15	8424	9.905	3.311	14.041	13.593	27	604	741
	14.13	8697	10.448	3.425	11.657	16.049	27	712	614
	24.10	8970	11.052	3.524	8.903	18.023	27	797	468
XII	4.07	9243	11.711	3.585	5.864	19.446	26	859	308
	14.04	+ 0.9516	+ 12.409	+ 3.589	+ 2.634	+ 20.267	− 0.0026	− 0.894	+ 0.138
	24.02	0.9789	13.125	3.526	− 0.686	20.457	25	902	− 0.036
	33.99	1.0062	13.837	3.394	3.987	20.004	24	882	209
	43.96	+ 1.0335	+ 14.522	+ 3.197	− 7.161	+ 18.923	− 0.0024	− 0.834	− 0.375

上揭ノ恒星日々常數及 P, Q ハ1月0.0日ヨリ起算セル毎10恒星日ノ値ニシテ短週期章動ハ之ヲ含マズ。

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
1	α Andromedae	2.15	0 5 29.236	+3.101	+0.010	+28 46 52.84	+19.88	−0.16	Alpheratz
2	β Cassiopeiae	2.42	6 10.512	3.200	+0.067	+58 50 27.59	19.86	−0.18	Caph
3	ε Phoenicis	3.94	6 34.512	3.046	+0.013	−46 3 22.49	19.87	−0.17	
4	22 Andromedae	5.08	7 24.023	3.118	0.000	+45 45 38.64	20.04	0.00	
5	$\varkappa^2$ Sculptoris	5.56	8 43.949	3.047	+0.001	−28 6 41.46	20.05	+0.03	
6	ϑ Sculptoris	5.19	0 8 53.354	+3.049	+0.013	−35 26 46.86	+20.16	+0.14	
7	γ Pegasi	2.87	10 20.910	3.089	0.000	+14 52 20.48	20.02	−0.01	Algenib
8	† Br 6 Cephei *m*	6.23	13 1.124	3.398	+0.004	+76 38 23.30	20.02	+0.01	
9	ε Ceti	3.75	16 34.445	3.056	−0.001	− 9 8 3.00	19.96	−0.03	
10	ζ Tucanae	4.34	17 10.002	3.128	+0.271	−65 12 13.34	21.16	+1.17	
11	β Hydri	2.90	0 22 50.492	+3.160	+0.691	−77 34 10.06	+20.27	+0.33	
12	α Phoenicis	2.44	23 31.243	2.966	+0.019	−42 36 35.45	19.55	−0.38	
13	12 Ceti	6.04	27 10.793	3.062	+0.001	− 4 15 59.27	19.90	0.00	
14	49 G. Ceti	5.23	27 34.746	3.000	−0.002	−24 5 49.96	19.92	+0.02	
15	λ^1 Phoenicis	4.88	28 43.218	2.895	+0.015	−49 6 46.55	19.92	+0.03	
16	ϰ Cassiopeiae	4.24	0 29 47.854	+3.408	0.000	+62 37 22.98	+19.88	0.00	
17	ζ Cassiopeiae	3.72	33 50.258	3.342	+0.002	+53 35 20.50	19.82	−0.01	
18	π Andromedae	4.44	33 52.959	3.204	+0.001	+33 24 40.85	19.82	0.00	
19	ε Andromedae	4.52	35 35.390	3.170	−0.018	+29 0 28.95	19.56	−0.25	
20	δ Andromedae	3.49	36 19.600	3.208	+0.010	+30 33 17.33	19.70	−0.09	
21	α Cassiopeiae	2.47	0 37 18.868	+3.403	+0.006	+56 13 50.14	+19.75	−0.03	Schedir
22	β Ceti	2.24	40 46.749	3.012	+0.017	−18 17 37.18	19.77	+0.04	Deneb Kaitos
23	η Phoenicis	4.53	40 50.663	2.698	0.000	−57 46 11.39	19.75	+0.02	
24	21 Cassiopeiae	5.59	41 54.633	3.956	−0.005	+74 40 56.58	19.69	−0.02	
25	ο Cassiopeiae	4.70	41 35.587	3.343	+0.002	+47 58 41.74	19.71	0.00	
26	λ^2 Sculptoris	5.97	0 41 29.799	+2.900	+0.020	−38 43 47.42	+19.84	+0.13	
27	ζ Andromedae	4.30	44 21.881	3.180	−0.007	+23 57 46.47	19.59	−0.08	
28	δ Piscium	4.55	45 46.433	3.113	+0.006	+ 7 16 50.37	19.60	−0.04	
29	Br 82 Cassiopeiae	5.45	47 18.429	3.638	+0.004	+63 56 35.24	19.61	−0.01	
30	φ^2 Ceti	5.24	47 19.255	3.005	−0.016	−10 56 43.84	19.40	−0.22	
31	λ Hydri	4.96	0 46 39.257	+2.084	+0.035	−75 13 40.94	+19.61	−0.02	
32	γ Cassiopeiae	2.25	53 18.575	3.619	+0.003	+60 24 50.36	19.50	0.00	
33	μ Andromedae	3.94	53 38.173	3.330	+0.013	+38 11 45.83	19.53	+0.04	
34	λ^2 Tucanae	5.34	52 55.197	2.243	+0.002	−69 49 46.62	19.47	−0.04	
35	α Sculptoris	4.39	0 55 54.527	2.891	+0.001	−29 39 34.97	19.46	+0.01	
36	ε Piscium	4.45	1 0 2.014	+3.114	−0.005	+ 7 35 20.77	+19.39	+0.03	
37	26 Ceti	6.07	0 55.936	3.088	+0.008	+ 1 4 1.62	19.30	−0.04	
38	†β Phoenicis *m*	3.35	3 35.282	2.677	−0.003	−47 1 5.21	19.29	+0.01	
39	ε Tucanae	5.32	5 5.859	2.377	+0.011	−62 4 26.26	19.24	0.00	
40	η Ceti	3.60	5 46.317	3.018	+0.015	−10 28 42.88	19.09	−0.13	
41	44 H. Cephei	5.68	1 7 21.203	+5.171	+0.033	+79 22 36.09	+19.19	0.00	
42	β Andromedae	2.37	6 35.306	3.359	+0.015	+35 19 27.10	19.09	−0.11	Mirach
43	τ Piscium	4.70	8 34.136	3.304	+0.005	+29 47 34.37	19.12	−0.03	
44	102 G. Sculptoris	5.91	10 10.722	2.764	+0.007	−38 9 9.98	19.09	−0.02	
45	υ Piscium	4.67	16 22.907	3.297	+0.002	+26 58 13.07	18.93	−0.01	
46	ψ Cassiopeiae	4.96	1 21 56.777	+4.235	+0.013	+67 50 18.79	+18.81	+0.03	
47	ϑ Ceti	3.83	21 13.375	2.999	−0.005	− 8 28 18.51	18.58	−0.22	
48	δ Cassiopeiae	2.80	22 7.934	3.923	+0.040	+59 56 42.00	18.72	−0.05	Ruchbah
49	γ Phoenicis	3.40	25 56.126	2.605	−0.002	−43 36 16.28	18.45	−0.20	
50	η Piscium	3.72	28 28.929	3.210	+0.002	+15 3 27.89	18.56	0.00	
51	40 Cassiopeiae	5.50	1 33 59.663	+4.787	−0.004	+72 45 20.26	+18.37	−0.01	
52	51 Andromedae	3.77	34 32.533	3.682	+0.007	+48 20 43.19	18.25	−0.11	
53	14 G. Hydri	6.06	33 15.544	0.398	−0.007	−78 47 19.72	18.29	−0.12	
54	α Eridani	0.60	35 37.880	2.235	+0.013	−57 31 14.42	18.30	−0.02	Achernar (水委)
55	43 Cassiopeiae	5.54	38 9.705	4.440	+0.009	+67 45 38.97	18.23	0.00	
56	ν Piscium	4.68	1 38 30.818	+3.122	−0.002	+ 5 12 17.78	+18.23	+0.01	
57	φ Persei	4.19	40 8.180	3.760	+0.003	+50 24 27.05	18.15	−0.01	
58	129 G. Sculptoris	5.64	39 34.864	2.644	−0.004	−37 6 51.29	18.16	−0.02	
59	τ Ceti	3.65	41 27.939	2.787	−0.119	−16 13 54.27	18.97	+0.86	
60	ο Piscium	4.50	1 42 25.960	+3.168	+0.005	+ 8 52 36.00	+18.13	+0.05	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
61	ε Sculptoris	5.39	1 43 1.391	+2.810	+0.012	−25 19 54.40	+18.00	−0.05	
62	ζ Ceti	3.92	48 41.678	2.961	+0.002	−10 36 39.46	17.80	−0.03	
63	ε Cassiopeiae	3.44	50 20.441	4.313	+0.004	+63 23 43.41	17.75	−0.02	
64	α Trianguli	3.58	49 52.915	3.420	+0.001	+29 18 24.81	17.55	−0.23	
65	ξ Piscium	4.84	50 39.200	3.106	+0.001	+ 2 54 42.80	17.78	+0.03	
66	β Arietis	2.72	1 51 32.451	+3.314	+0.007	+20 32 6.42	+ 17.61	−0.11	Sheratan
67	ψ Phoenicis	4.41	51 24.145	2.405	−0.008	−46 34 34.62	17.64	−0.08	
68	χ Eridani	3.73	53 46.811	2.335	+0.073	−51 53 13.16	17.92	+0.30	
69	η^2 Hydri	4.72	53 30.789	1.520	+0.013	−67 55 20.20	17.72	+0.09	
70	50 Cassiopeiae	4.06	58 36.363	5.117	−0.010	+72 9 6.21	17.45	+0.03	
71	υ Ceti	4.18	1 57 21.943	+2.827	+0.009	−21 20 54.21	+17.46	−0.02	
72	α Hydri	3.02	1 57 0.341	1.891	+0.037	−61 50 30.21	17.53	+0.04	
73	γ Andromedae *pr*	2.28	2 0 27.087	3.683	+0.004	+42 3 43.36	17.29	−0.05	Almach
74	α Arietis	2.23	4 0.622	3.382	+0.014	+23 11 54.86	17.04	−0.14	Hamal
75	β Trianguli	3.08	6 12.154	3.570	+0.012	+34 43 24.29	17.04	−0.04	
76	55 Cassiopeiae	6.15	2 10 3.445	+4.705	−0.002	+66 15 47.99	+16.90	0.00	
77	Br 299 Andromedae	5.40	9 51.971	3.990	+0.037	+50 48 24.69	16.74	−0.17	
78	μ Fornacis	5.24	10 26.515	2.642	+0.001	−30 59 8.56	16.89	+0.01	
79	γ Trianguli	4.07	13 58.598	3.567	+0.003	+33 35 21.58	16.67	−0.04	
80	67 Ceti	5.70	14 11.293	2.993	+0.006	− 6 40 45.58	16.60	−0.11	
81	ϑ Arietis	5.69	2 15 0.298	+3.337	−0.001	+19 38 35.20	+16.67	0.00	
82	φ Eridani	3.78	14 30.529	2.144	+0.010	−51 46 14.51	16.67	−0.02	
83	κ Fornacis	5.37	19 58.778	2.746	+0.015	−24 4 11.84	16.36	−0.05	
84	λ Horologii	5.47	23 19.856	1.678	−0.010	−60 33 43.46	16.12	−0.12	
85	ξ^2 Ceti	4.34	25 10.648	3.190	+0.003	+ 8 12 36.34	16.15	0.00	
86	κ Eridani	4.44	2 24 55.955	+2.200	+0.002	−47 57 16.05	+16.17	0.00	
87	36 H. Cassiopeiae	5.34	32 39.495	5.697	−0.008	+72 34 30.95	15.78	+0.02	
88	λ^1 Fornacis	5.88	30 46.876	2.501	−0.002	−34 53 43.76	15.84	−0.02	
89	ν Arietis	5.36	35 37.816	+3.407	−0.001	+21 43 13.48	15.58	−0.01	
90	μ Hydri	5.29	32 48.519	−1.276	+0.046	−79 21 14.21	15.72	−0.04	
91	δ Ceti	4.04	2 36 36.533	+3.075	+0.001	+ 0 5 16.90	+15.54	0.00	
92	Br 366 Cassiopeiae	5.84	39 58.533	5.159	+0.002	+67 35 18.48	15.32	−0.03	
93	ϑ Persei	4.22	40 21.689	4.098	+0.034	+48 59 34.98	15.25	−0.08	
94	35 Arietis	4.58	40 9.522	3.521	+0.001	+27 28 12.41	15.34	0.00	
95	ε Hydri	4.26	38 43.261	0.924	+0.017	−68 30 23.20	15.44	+0.02	
96	†γ Ceti	3.58	2 40 23.746	+3.109	−0.010	+ 2 0 3.06	+15.18	−0.15	
97	π Ceti	4.39	41 27.340	2.855	−0.001	−14 5 41.59	15.26	−0.01	
98	μ Ceti	4.36	41 54.638	3.243	+0.019	+ 9 52 43.70	15.21	−0.03	
99	η Persei	3.93	46 35.661	4.376	+0.002	+55 39 52.79	14.97	−0.01	
100	41 Arietis	3.68	46 40.842	3.531	+0.005	+27 1 51.38	14.86	−0.11	
101	β Fornacis	4.50	2 46 44.778	+2.511	+0.007	−32 38 24.54	+15.13	+0.16	
102	τ^2 Eridani	4.81	48 29.825	2.721	−0.004	−21 14 2.05	14.85	−0.02	
103	τ Persei	4.06	50 16.337	4.253	0.000	+52 32 5.37	14.76	0.00	
104	η Eridani	4.05	53 41.373	2.931	+0.005	− 9 7 11.75	14.34	−0.21	
105	47H. Cephei	5.66	58 33.203	7.984	−0.014	+79 12 0.86	14.27	+0.01	
106	ϑ Eridani *pr*	3.42	2 56 8.222	+2.275	−0.005	−40 31 41.45	+14.44	+0.03	Acamar
107	α Ceti	2.82	2 59 20.932	3.136	−0.001	+ 3 52 16.40	14.14	−0.07	Menkar
108	γ Persei	3.08	3 0 43.516	4.345	0.000	+53 17 19.60	14.12	0.00	
109	ρ Persei	3.3-4.1 Var.	1 34.724	3.845	+0.011	+38 37 29.02	13.97	−0.10	
110	μ Horologii	5.16	2 17.429	1.413	−0.010	−59 57 15.48	13.98	−0.05	
111	β Persei	2.2-3.5 Var.	3 4 30.941	+3.904	+0.001	+40 44 29.20	+13.89	0.00	Algol
112	ε Persei	4.17	5 0.727	4.329	+0.130	+49 24 4.11	13.78	−0.08	
113	ϑ Hydri	5.52	2 7.547	0.124	+0.006	−72 7 15.86	14.06	+0.02	
114	δ Arietis	4.53	8 25.296	3.431	+0.011	+19 30 58.55	13.64	0.00	
115	48H. Cephei	5.50	13 8.244	7.606	+0.020	+77 31 55.13	13.28	−0.05	
116	94 Ceti	5.14	3 9 54.786	+3.062	+0.013	− 1 24 15.53	+13.49	−0.06	
117	†α Fornacis	3.95	9 41.456	2.549	+0.025	−29 12 24.50	14.21	+0.65	
118	38 G. Horologii	5.72	11 7.814	1.519	+0.001	−57 31 50.07	13.48	+0.02	
119	82 G. Eridani	4.30	17 41.467	2.396	+0.279	−43 16 58.18	13.79	+0.75	
120	α Persei	1.90	3 20 18.747	+4.283	+0.093	+49 39 49.05	+12.84	−0.02	Marfak

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
121	ο Tauri	3.80	3 21 47.750	+3.229	−0.005	+ 8 49 59.36	+12.69	−0.07	
122	2 H. Camelopardalis	4.42	24 30.893	4.857	0.000	+59 44 49.72	12.58	0.00	
123	ξ Tauri	3.75	24 7.816	3.252	+0.004	+ 9 32 19.93	12.57	−0.03	
124	σ Persei	4.55	26 36.899	4.230	+0.001	+47 48 13.25	12.46	+0.02	
125	5 Tauri	4.28	27 46.634	3.313	+0.002	+12 44 46.22	12.36	0.00	
126	κ Reticuli	4.80	3 28 23.619	+1.047	+0.055	−63 8 3.85	+12.69	+0.38	
127	ε Eridani	3.81	30 17.396	2.827	−0.066	− 9 38 47.90	12.20	+0.02	
128	45 G. Horologii	5.60	30 54.367	1.788	+0.008	−50 34 4.41	12.22	+0.09	
129	Grb 716 Camelopardalis	5.32	37 16.428	5.204	−0.003	+63 2 14.59	11.71	+0.02	
130	110 G. Eridani	4.58	35 4.990	2.153	−0.001	−40 27 26.53	11.82	−0.02	
131	δ Persei	3.10	3 38 55.614	+4.272	+0.003	+47 36 37.18	+11.54	−0.03	
132	†ο Persei	3.94	40 48.022	3.763	+0.001	+32 6 44.95	11.43	−0.01	
133	δ Fornacis	4.93	40 1.162	2.386	0.000	−32 6 58.26	11.51	+0.02	
134	ν Persei	3.93	41 22.833	4.076	−0.001	+42 24 12.31	11.40	0.00	
135	δ Eridani	3.72	40 33.801	2.874	−0.006	− 9 57 6.25	12.20	+0.75	
136	17 Tauri	3.81	3 41 32.680	+3.563	+0.001	+23 56 19.83	+11.34	−0.04	
137	24 Eridani	5.09	41 39.662	3.048	0.000	− 1 20 18.31	11.37	0.00	
138	γ Camelopardalis	4.67	44 24.589	6.329	+0.004	+71 9 44.88	11.14	−0.04	
139	η Tauri	2.96	44 9.024	3.567	+0.002	+23 56 0.67	11.15	−0.04	
140	τ^6 Eridani	4.33	44 26.231	2.581	−0.012	−23 24 50.33	10.65	−0.52	
141	β Reticuli	3.80	3 43 29.399	+0.751	+0.048	−64 58 57.89	+11.33	+0.03	
142	27 Tauri	3.80	45 49.623	3.568	+0.001	+23 53 1.51	11.03	−0.04	
143	138 G. Eridani	4.24	47 21.417	2.245	−0.004	−36 22 7.49	10.92	−0.04	Alcyone
144	ζ Persei	2.91	50 36.337	3.772	+0.001	+31 43 8.30	10.71	−0.01	
145	†9 H. Camelopardalis	5.22	52 20.657	+5.115	−0.001	+60 56 49.59	10.58	−0.01	
146	γ Hydri	3.17	3 48 5.057	−0.931	+0.013	−74 24 39.59	+11.03	+0.12	
147	ε Persei	2.96	54 5.283	+4.026	+0.002	+39 50 59.89	10.44	−0.03	
148	ξ Persei	4.05	55 19.471	3.893	0.000	+35 37 54.25	10.37	0.00	
149	γ Eridani	3.19	55 24.889	2.800	+0.004	−13 39 59.61	10.26	−0.11	
150	λ Tauri	3.8-4.1 Var.	3 57 34.437	3.324	0.000	+12 20 0.88	10.19	−0.01	
151	ν Tauri	3.94	4 0 10.433	+3.192	0.000	+ 5 50 7.52	+10.01	0.00	
152	43 Persei	4.03	4 35.178	4.356	+0.002	+47 33 54.02	9.64	−0.03	
153	174 G. Eridani	5.57	3 18.861	2.473	+0.015	−27 48 13.84	9.87	+0.11	
154	o^1 Eridani	4.14	9 7.773	2.929	+0.001	− 6 58 56.00	9.41	+0.09	
155	α Horologii	3.83	12 8.638	1.988	+0.003	−42 25 53.32	8.88	−0.20	
156	α Reticuli	3.36	4 13 41.886	+0.773	+0.006	−62 36 48.97	+ 9.02	+0.05	
157	γ Doradus	4.36	14 33.405	1.572	+0.011	−51 37 37.33	9.09	+0.19	
158	54 Persei	5.10	16 46.091	3.896	−0.002	+34 25 59.93	8.72	−0.01	
159	γ Tauri	3.86	16 36.167	3.415	+0.008	+15 29 38.38	8.71	−0.02	
160	† 41 υ^3 Eridani *m*	3.59	15 46.409	2.270	+0.005	−33 56 2.20	8.80	0.00	
161	212 G. Eridani	5.31	4 18 12.347	+2.618	+0.002	−20 46 19.15	+ 8.60	−0.01	
162	δ Tauri	3.93	19 42.088	3.460	+0.008	+17 24 46.08	8.47	−0.03	
163	η Reticuli	5.18	21 16.663	0.649	+0.013	−63 31 8.30	8.54	+0.17	
164	ε Tauri	3.63	25 20.564	3.504	+0.008	+19 3 28.44	8.01	−0.03	
165	1 Camelopardalis *sd*	5.86	27 35.041	+4.752	0.000	+53 47 28.91	7.86	0.00	
166	δ Mensae	5.62	4 21 42.707	−4.057	+0.013	−80 20 48.97	+ 8.41	+0.07	
167	δ Caeli	5.16	29 7.080	+1.838	0.000	−45 4 22.84	7.74	0.00	
168	α Tauri	1.06	32 42.245	3.443	+0.005	+16 23 54.01	7.26	−0.19	Aldebaran
169	ν Eridani	4.12	33 31.115	2.998	0.000	− 3 27 55.81	7.38	0.00	
170	υ^2 Eridani	3.88	33 22.306	2.333	−0.004	−30 40 33.13	7.39	−0.01	
171	α Doradus	3.47	4 32 47.004	+1.297	+0.006	−55 9 36.19	+ 7.45	0.00	
172	53 Eridani	3.98	35 36.851	2.748	−0.005	−14 24 43.89	7.05	−0.16	
173	Grb 848 Camelopardalis	6.04	41 15.611	8.072	+0.010	+75 50 35.28	6.61	−0.13	
174	τ Tauri	4.33	38 52.796	3.601	0.000	+22 51 4.51	6.93	−0.01	
175	4 Camelopardalis	5.35	43 19.735	4.998	+0.007	+56 39 36.63	6.43	−0.15	
176	μ Eridani	4.18	4 42 41.995	+3.000	+0.001	− 3 21 20.94	+ 6.62	−0.01	
177	μ Mensae	5.69	43 36.851	−0.599	+0.002	−71 2 2.39	6.59	+0.03	
178	α Camelopardalis	4.38	48 28.011	+5.964	0.000	+66 15 1.91	6.16	+0.01	
179	π^4 Orionis	3.78	48 13.250	3.196	0.000	+ 5 30 39.38	6.18	0.00	
180	π^5 Orionis	3.87	4 51 19.906	+3.125	0.000	+ 2 21 1.93	+ 5.92	0.00	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
181	ε Aurigae	2.90	4 53 20.541	+3.907	0.000	+33 4 45.65	+ 5.73	− 0.02	
182	β Camelopardalis	4.22	58 25.579	5.337	−0.001	+60 21 46.94	5.30	− 0.01	
183	ε Aurigae	3.1-3.8 Var.	57 56.704	4.306	0.000	+43 44 33.26	5.35	− 0.01	
184	ζ Tauri	4.70	4 59 44.703	3.587	+0.005	+21 30 42.37	5.17	− 0.04	
185	η Aurigae	3.28	5 2 34.964	4.208	+0.003	+41 9 39.14	4.90	− 0.07	
186	ε Leporis	3.29	5 3 5.339	+2.540	+0.002	−22 26 41.83	+ 4.86	− 0.07	
187	η^2 Pictoris	4.92	3 30.787	1.553	+0.006	−49 39 10.66	4.89	0.00	
188	β Eridani	2.92	5 5.677	2.950	−0.006	− 5 9 26.37	4.68	− 0.08	
189	ζ Doradus	4.76	4 32.829	1.028	−0.005	−57 32 55.10	4.92	+ 0.12	
190	λ Eridani	4.34	6 27.875	2.872	0.000	− 8 49 28.04	4.64	0.00	
191	19 H. Camelopardalis	5.16	5 13 17.249	+9.886	−0.029	+79 10 18.27	+ 4.21	+ 0.16	
192	μ Aurigae	4.78	9 35.512	4.106	−0.002	+38 25 12.52	4.29	− 0.08	
193	α Aurigae	0.21	12 32.877	4.433	+0.008	+45 56 36.02	3.70	− 0.42	Capella(天庫)
194	β Orionis	0.34	11 50.700	2.884	0.000	− 8 15 53.62	4.18	0.00	Rigel
195	τ Orionis	3.68	14 53.126	+2.913	−0.001	− 6 54 12.46	3.91	− 0.01	
196	ϑ Doradus	4.78	5 13 47.617	−0.048	+0.001	−67 14 54.20	+ 4.05	+ 0.04	
197	o Columbae	4.91	15 27.802	+2.164	+0.007	−34 56 56.11	3.53	− 0.34	
198	12 G. Columbae	5.75	17 9.700	2.392	+0.001	−27 25 30.56	3.72	0.00	
199	ζ Pictoris	5.52	17 59.526	1.471	+0.001	−50 39 55.33	3.89	+ 0.23	
200	† η Orionis *m*	3.44	21 39.578	3.017	0.000	− 2 26 49.48	3.34	0.00	
201	γ Orionis	1.70	5 22 7.529	+3.218	−0.001	+ 6 18 1.98	+ 3.28	− 0.01	Bellatrix
202	β Tauri	1.78	22 44.958	3.793	+0.002	+28 33 43.40	3.07	− 0.18	El Nath
203	17 Camelopardalis	5.75	24 52.402	5.667	−0.001	+63 1 23.99	3.05	0.00	
204	β Leporis	2.96	25 50.682	2.571	0.000	−20 48 10.21	2.88	− 0.09	
205	Grb 966 Camelopardalis	6.36	32 13.364	8.025	−0.002	+75 0 39.08	2.44	+ 0.03	
206	δ Orionis	2.48	5 29 8.631	+3.065	0.000	− 0 20 20.35	+ 2.69	0.00	
207	α Leporis	2.69	30 15.530	2.646	0.000	−17 51 39.59	2.60	0.00	Arneb
208	φ^1 Orionis	4.53	31 44.651	3.294	0.000	+ 9 27 11.98	2.46	0.00	
209	ι Orionis	2.87	32 41.527	2.935	0.000	− 5 56 42.32	2.39	0.00	
210	ε Orionis	1.75	33 22.213	3.045	0.000	− 1 14 10.00	2.32	0.00	Alnilam
211	ζ Tauri	3.00	5 34 17.748	+3.586	0.000	+21 6 36.68	+ 2.22	− 0.02	
212	β Doradus	3.81	33 8.151	0.520	−0.001	−62 31 34.21	2.35	+ 0.01	
213	† σ Orionis *m*	3.78	35 55.980	+3.012	0.000	− 2 37 50.98	2.10	0.00	
214	γ Mensae	5.06	34 5.453	−2.376	+0.031	−76 22 55.24	2.56	+ 0.29	
215	α Columbae	2.75	37 37.174	+2.173	0.000	−34 6 10.12	1.93	− 0.03	Phact
216	o Aurigae	5.52	5 41 33.541	+4.649	−0.001	+49 48 14.88	+ 1.61	0.00	
217	γ Leporis	3.80	42 7.663	2.502	−0.021	−22 27 55.30	1.19	− 0.37	
218	130 Tauri	5.51	44 10.162	3.498	0.000	+17 42 35.50	1.37	− 0.01	
219	ζ Leporis	3.67	44 24.994	2.719	−0.001	−14 50 29.41	1.36	− 0.01	
220	ϰ Orionis	2.20	45 5.953	2.846	0.000	− 9 41 17.15	1.30	0.00	
221	ν Aurigae	4.18	5 47 36.388	+4.158	−0.001	+39 8 3.06	+ 1.09	+ 0.01	
222	δ Leporis	3.90	48 54.729	2.581	+0.017	−20 52 57.07	0.32	− 0.65	
223	β Columbae	3.22	48 59.029	2.115	+0.004	−35 47 17.70	1.37	+ 0.40	
224	α Orionis	0.92	52 8.331	3.248	+0.002	+ 7 23 53.89	0.70	+ 0.01	Betelgeuse
225	δ Aurigae	3.88	54 54.878	4.941	+0.010	+54 16 58.36	0.31	− 0.13	
226	η Leporis	3.77	5 53 51.173	+2.733	−0.003	−14 10 35.62	+ 0.67	+ 0.14	
227	β Aurigae	2.07	55 25.178	4.402	−0.005	+44 56 38.34	0.40	0.00	Menkalinan
228	† ϑ Aurigae	2.71	55 54.074	4.092	+0.004	+37 12 38.46	0.27	− 0.08	
229	η Columbae	4.03	5 57 25.856	1.836	+0.001	−42 49 2.59	+ 0.21	− 0.02	
230	66 Orionis	5.70	6 2 0.732	3.170	0.000	+ 4 9 48.31	− 0.19	− 0.01	
231	1 G. Puppis	6.22	6 2 51.611	+1.727	−0.009	−45 2 7.49	− 0.01	+ 0.25	
232	ν Orionis	4.40	4 22.398	3.426	0.000	+14 46 36.74	0.41	− 0.02	
233	36 Camelopardalis	5.39	7 13.067	6.037	+0.001	+65 43 57.58	0.66	− 0.03	
234	22 H. Camelopardalis	4.73	12 40.695	6.613	+0.001	+69 20 34.65	1.22	− 0.10	
235	δ Pictoris	4.84	9 12.358	1.162	−0.002	−54 57 19.47	0.79	+ 0.01	
236	† η Geminorum	3.2-4.2 Var.	6 11 29.778	+3.622	−0.005	+22 31 29.52	− 1.02	− 0.01	
237	2 Lyncis	4.42	14 40.959	5.294	−0.001	+59 2 1.75	1.27	+ 0.02	
238	ϰ Columbae	4.51	14 33.461	+2.134	−0.001	−35 7 14.78	1.19	+ 0.08	
239	α Mensae	5.14	11 54.685	−1.786	+0.030	−74 44 5.16	1.26	− 0.22	
240	ζ Canis Majoris	3.10	6 18 9.724	+2.303	0.000	−30 2 14.21	− 1.58	0.00	

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241	μ Geminorum	3.19	6 19 34.321	+ 3.630	+ 0.004	+22 32 38.96	− 1.83	− 0.11	
242	ψ^1 Aurigae	5.10	20 35.156	4.622	0.000	+49 19 7.65	1.81	0.00	
243	β Canis Majoris	1.99	20 13.948	2.642	0.000	−17 55 36.60	1.77	0.00	
244	8 ε Monocerotis	4.48	20 47.983	3.180	− 0.001	+ 4 37 22.58	1.81	+ 0.01	
245	α Carinae	−0.86	22 42.475	1.332	+ 0.002	−52 39 51.47	1.96	+ 0.03	Canopus (老人)
246	10 Monocerotis	4.98	6 25 11.572	+ 2.963	− 0.001	− 4 43 33.56	− 2.20	0.00	
247	8 Lyncis	6.05	32 34.577	5.484	− 0.029	+61 31 59.19	3.12	− 0.28	
248	23 H. Camelopardalis	5.60	36 42.861	10.250	− 0.031	+79 37 49.24	3.81	− 0.61	
249	ξ^2 Canis Majoris	4.54	32 42.479	2.515	+ 0.001	−22 55 8.99	2.84	+ 0.01	
250	51 Aurigae	5.71	34 46.741	4.158	− 0.002	+39 26 31.99	3.15	− 0.11	
251	γ Geminorum	1.93	6 34 28.605	+ 3.466	+ 0.003	+16 26 55.69	− 3.05	− 0.04	
252	ν Puppis	3.18	36 2.776	1.836	− 0.001	−43 8 44.91	3.14	0.00	
253	† S Monocerotis	4.68	37 53.602	3.304	0.000	+ 9 56 56.94	3.31	− 0.01	
254	ε Geminorum	3.18	40 29.212	3.691	0.000	+25 11 18.20	3.54	− 0.02	
255	ψ^5 Aurigae	5.34	42 42.258	4.325	0.000	+43 33 7.13	3.55	+ 0.16	
256	ξ Geminorum	3.40	6 42 8.761	+ 3.337	− 0.003	+12 57 27.47	− 3.36	− 0.19	
257	α Canis Majoris *cg*	−1.58	42 40.868	2.643	− 0.037	−16 38 16.79	4.92	− 1.21	Sirius(天狼)
258	18 Monocerotis	4.70	44 56.402	3.128	− 0.001	+ 2 28 30.01	3.92	− 0.01	
259	43 Camelopardalis	5.13	47 40.587	6.471	0.000	+68 57 23.64	4.14	0.00	
260	24 H. Camelopardalis	4.75	51 55.736	8.757	+ 0.021	+77 3 11.06	4.52	− 0.01	
261	ϑ Geminorum	3.64	6 49 5.945	+ 3.955	0.000	+34 1 50.53	− 4.32	− 0.05	
262	α Pictoris	3.30	47 37.007	0.616	− 0.011	−61 52 50.93	3.87	+ 0.27	
263	τ Puppis	2.83	48 32.712	+ 1.488	+ 0.003	−50 32 49.60	4.29	− 0.07	
264	ζ Mensae	5.64	44 44.606	− 4.985	− 0.002	−80 45 25.13	3.83	+ 0.06	
265	† 15 Lyncis *m*	4.54	52 25.950	+ 5.195	− 0.001	+58 29 55.12	4.69	− 0.14	
266	ϑ Canis Majoris	4.25	6 51 35.231	+ 2.788	− 0.010	−11 58 1.58	− 4.49	− 0.01	
267	ι Volantis	5.52	52 5.762	− 0.686	− 0.001	−70 53 38.36	4.50	+ 0.02	
268	ε Canis Majoris	1.63	6 56 25.447	+ 2.358	0.000	−28 53 40.88	4.88	0.00	Adhara
269	ζ Geminorum	3.7-4.1 Var.	7 0 47.276	3.559	− 0.001	+20 39 15.08	5.26	0.00	
270	o^2 Canis Majoris	3.12	0 41.115	2.506	0.000	−23 45 0.89	5.25	0.00	
271	γ Canis Majoris	4.07	7 1 13.443	+ 2.715	0.000	−15 32 57.00	− 5.30	− 0.01	
272	27 G. Carinae	5.30	3 15.645	1.118	− 0.001	−56 39 50.67	5.46	0.00	
273	δ Canis Majoris	1.98	6 6.803	2.440	0.000	−26 18 11.04	5.70	0.00	
274	63 Aurigae	5.07	7 48.347	4.127	+ 0.004	+39 24 49.83	5.85	0.00	
275	I Puppis	4.47	10 57.747	1.710	− 0.014	−46 39 53.93	6.01	+ 0.10	
276	64 Aurigae	5.75	7 14 8.735	+ 4.172	− 0.002	+40 59 5.42	− 6.36	+ 0.01	
277	λ Geminorum	3.65	14 52.508	3.448	− 0.004	+16 38 35.05	6.47	− 0.04	
278	π Puppis	2.74	15 9.842	2.119	− 0.001	−36 59 44.74	6.45	+ 0.01	
279	δ Geminorum	3.51	16 46.768	3.583	− 0.002	+22 5 13.79	6.61	− 0.01	
280	19 Lyncis *sq*	5.61	18 18.285	+ 4.897	− 0.001	+55 23 21.19	6.75	− 0.03	
281	δ Volantis	4.02	7 16 51.832	− 0.029	− 0.001	−67 51 17.01	− 6.60	0.00	
282	ι Geminorum	3.89	22 15.016	+ 3.727	− 0.009	+27 54 40.05	7.13	− 0.09	
283	η Canis Majoris	2.43	21 52.733	2.373	− 0.001	−29 11 33.80	7.01	+ 0.01	
284	Grb 1308 Camelopardalis	5.80	25 4.212	6.245	− 0.002	+68 34 58.82	7.31	− 0.04	
285	β Canis Minoris	3.09	24 6.833	3.254	− 0.004	+ 8 24 13.39	7.23	− 0.04	
286	ρ Geminorum	4.18	7 25 30.688	+ 3.859	+ 0.012	+31 53 51.35	− 7.14	+ 0.17	
287	α Geminorum *cg*	1.99 2.88	31 1.690	3.830	− 0.014	+32 0 46.60	7.86	− 0.10	Castor
288	108 G. Puppis	4.52	31 39.241	2.568	− 0.004	−22 10 26.54	7.77	+ 0.03	
289	25 Monocerotis	5.17	34 29.590	2.983	− 0.005	− 3 59 4.47	8.02	+ 0.02	
290	127 G. Puppis	4.62	35 17.671	2.220	− 0.003	−34 50 29.05	8.08	+ 0.02	
291	α Canis Minoris *cg*	0.48	7 36 22.270	+ 3.140	− 0.047	+ 5 22 11.94	− 9.21	− 1.03	Procyon
292	24 Lyncis	4.96	38 16.744	5.078	− 0.005	+58 50 37.42	8.39	− 0.05	
293	26 α Monocerotis	4.07	38 34.268	2.867	− 0.005	− 9 25 9.19	8.38	− 0.02	
294	ϰ Geminorum	3.68	41 4.128	3.622	− 0.002	+24 32 2.33	8.61	− 0.05	
295	β Geminorum	1.21	41 53.489	3.672	− 0.047	+28 9 47.19	8.68	− 0.05	Pollux
296	π Geminorum	5.29	7 43 53.919	+ 3.869	− 0.001	+33 33 17.60	− 8.81	− 0.03	
297	ζ Volantis	3.89	42 31.376	− 0.736	+ 0.006	−72 28 18.69	8.65	+ 0.02	
298	† 9 Puppis *m*	5.34	49 10.659	+ 2.778	− 0.004	−13 44 53.53	9.54	− 0.34	
299	26 Lyncis	5.69	50 38.423	4.369	− 0.005	+47 42 42.28	9.31	0.00	
300	Grb 1374 Camelopardalis	5.56	7 53 31.959	+ 7.188	− 0.003	+74 4 14.71	− 9.57	− 0.03	

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301	213 G. Puppis	3.76	7 50 17.416	+2.062	−0.002	−40 25 49.46	− 9.28	0.00	
302	53 Camelopardalis	6.00	56 56.152	5.125	−0.007	+60 28 47.17	9.81	−0.02	
303	χ Carinae	3.60	55 21.249	1.525	−0.004	−52 49 52.61	9.64	+0.03	
304	27 Monocerotis	5.06	7 56 56.250	2.997	−0.004	− 3 31 32.04	9.79	0.00	
305	χ Geminorum	5.04	8 0 4.885	3.685	−0.002	+27 57 10.54	10.03	−0.05	
306	ζ Puppis	2.27	8 1 36.879	+2.109	−0.003	−39 50 39.77	−10.13	+0.01	
307	27 Lyncis	4.87	4 15.207	4.514	−0.007	+51 40 12.06	10.35	−0.01	
308	ρ Puppis	2.88	5 9.493	2.555	−0.006	−24 8 29.98	10.36	+0.05	
309	γ Velorum	2.22	7 48.358	1.849	−0.001	−47 10 14.54	10.60	+0.01	
310	Br 1147 Camelopardalis	5.73	12 33.605	7.543	+0.007	+75 55 51.82	10.95	+0.02	
311	20 Puppis	5.05	8 10 45.472	+2.758	−0.001	−15 37 5.90	−10.83	−0.01	
312	β Cancri	3.76	13 28.751	3.254	−0.003	+ 9 21 34.29	11.08	−0.05	
313	289 G. Puppis	4.43	16 27.457	2.246	−0.009	−36 29 5.30	11.15	+0.09	
314	31 Lyncis	4.43	19 0.508	4.109	−0.002	+43 22 9.95	11.53	−0.10	
315	ε Carinae	1.74	21 21.969	1.232	−0.004	−59 19 43.27	11.58	+0.02	
316	Br 1197 Hydrae	3.95	8 22 51.733	+2.998	−0.005	− 3 43 21.00	−11.73	−0.03	
317	o Ursae Majoris	3.47	25 37.696	+4.987	−0.019	+60 54 26.68	12.01	−0.11	
318	ϑ Chamaeleontis	4.26	22 21.651	−1.790	−0.039	−77 18 16.17	11.63	+0.04	
319	β Volantis	3.65	25 8.065	+0.655	−0.004	−65 56 58.71	12.02	−0.16	
320	Grb 1450 Lyncis	6.05	29 16.887	3.901	−0.009	+38 12 36.06	12.33	−0.17	
321	η Cancri	5.52	8 29 28.337	+3.470	−0.003	+20 37 57.99	−12.22	−0.05	
322	Grb 1446 Camelopardalis	6.29	33 31.726	6.679	−0.005	+73 49 40.99	12.55	−0.10	
323	Grb 1460 U Maj	6.03	35 9.280	4.447	−0.004	+52 54 34.30	12.60	−0.04	
324	48 G. Velorum	4.13	35 40.383	2.109	−0.002	−42 47 32.14	12.59	+0.01	
325	6 Hydrae	5.15	37 22.220	2.842	−0.006	−12 16 34.74	12.71	−0.01	
326	δ Cancri	4.17	8 41 30.285	+3.410	−0.001	+18 21 41.17	−13.22	−0.23	
327	α Pyxidis	3.70	41 20.427	2.411	−0.001	−32 59 0.68	12.97	+0.01	
328	ℓ Cancri	4.20	43 18.733	3.631	−0.002	+28 57 58.19	13.15	−0.04	
329	† ε Hydrae *m*	3.48	43 48.689	3.177	−0.013	+ 6 37 31.63	13.19	−0.05	
330	† δ Velorum *m*	2.01	43 9.426	1.657	+0.002	−54 30 9.00	13.17	−0.08	
331	η Chamaeleontis	5.62	8 43 16.840	+2.025	−0.008	−78 45 39.28	−13.08	+0.02	
332	γ Pyxidis	4.19	48 9.230	2.546	−0.010	−27 30 4.52	13.34	+0.08	
333	† σ^2 Cancri *m*	5.60	50 49.927	3.661	+0.003	+30 47 34.11	13.62	−0.02	
334	ζ Hydrae	3.30	52 26.060	3.172	−0.007	+ 6 9 35.39	13.69	+0.01	
335	ℓ Ursae Majoris	3.12	55 22.975	4.109	−0.044	+48 15 46.62	14.13	−0.24	
336	108 G. Carinae	3.98	8 53 46.789	+1.361	−0.002	−60 25 48.29	−13.74	+0.04	
337	α Cancri	4.27	55 25.558	3.281	+0.002	+12 4 32.61	13.92	−0.03	
338	ρ Ursae Majoris	4.99	57 31.457	5.414	−0.005	+67 50 59.29	14.01	+0.02	
339	Br 1268 Lyncis	4.09	57 0.703	3.895	−0.039	+42 0 21.10	14.25	−0.26	
340	Grb 1501 U Maj	5.68	59 54.942	4.397	−0.001	+54 30 22.10	14.17	0.00	
341	κ Ursae Majoris	3.68	8 59 48.674	+4.097	−0.003	+47 22 46.17	−14.22	−0.06	
342	97 G. Velorum	3.69	9 2 13.247	2.069	−0.006	−46 52 26.41	14.33	−0.02	
343	α Volantis	4.18	1 34.112	0.949	+0.001	−66 10 19.83	14.37	−0.10	
344	† σ^2 Ursae Majoris	4.87	5 29.423	5.279	−0.004	+67 21 49.24	14.59	−0.08	
345	λ Velorum	2.22	5 56.041	2.207	−0.002	−43 12 20.19	14.52	+0.02	Al Suhail
346	36 Lyncis	5.30	9 10 8.917	+3.925	−0.003	+43 26 59.84	−14.83	−0.04	
347	ϑ Hydrae	3.84	11 27.091	3.122	+0.009	+ 2 33 5.66	15.18	−0.31	
348	β Carinae	1.80	12 35.726	0.662	−0.028	−69 29 10.57	14.83	+0.10	Miaplacidus
349	† 38 Lyncis	3.82	15 21.935	3.734	−0.003	+37 2 26.86	15.22	−0.13	
350	83 Cancri	6.60	15 51.465	3.349	−0.009	+17 56 37.77	15.26	−0.13	
351	ℓ Carinae	2.25	9 15 35.475	+1.607	−0.002	−59 2 23.02	−15.10	+0.01	
352	α Lyncis	3.30	17 38.938	3.655	−0.018	+34 37 49.91	15.21	+0.01	
353	κ Velorum	2.63	20 22.685	1.858	−0.001	−54 46 14.95	15.37	+0.01	
354	α Hydrae	2.16	24 50.105	2.948	−0.001	− 8 24 53.92	15.60	+0.03	Alphard
355	23 Ursae Majoris	3.75	27 8.151	4.732	+0.016	+63 18 29.51	15.72	+0.03	
356	ε Antliae	4.64	9 26 55.892	+2.476	−0.002	−35 42 20.43	−15.75	−0.01	
357	24 Ursae Majoris	4.57	29 33.951	5.309	−0.013	+70 4 41.32	15.81	+0.08	
358	ϑ Ursae Majoris	3.26	29 7.403	4.014	−0.103	+51 56 1.55	16.40	−0.54	
359	† ψ Velorum *m*	3.64	28 29.503	2.363	−0.017	−40 13 14.58	15.71	+0.07	
360	10 Leonis Minoris	4.62	9 30 47.914	+3.676	0.000	+36 38 50.14	−15.98	− 0.03	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
361	N Velorum	3.04	9 29 31.127	+1.823	−0.004	−56 47 12.12	−15.87	0.00	
362	H Carinae	5.52	31 12.005	0.455	−0.003	−72 49 56.69	15.97	−0.01	
363	Grb 1564 Ursae Maj.	5.74	37 29.221	5.139	−0.014	+69 29 37.97	16.37	−0.07	
364	κ Hydrae	4.96	37 37.217	2.876	−0.002	−14 4 38.63	16.32	−0.02	
365	o Leonis	3.76	38 9.795	3.202	−0.010	+10 8 52.95	16.37	−0.04	
366	ϑ Antliae	4.98	9 41 42.190	+2.675	−0.004	−27 30 44.39	−16.47	+0.03	
367	ε Leonis	3.12	42 40.559	3.406	−0.003	+24 1 58.98	16.57	−0.02	
368	υ Ursae Majoris	3.89	47 1.480	4.268	−0.039	+59 18 11.91	16.92	−0.16	
369	† υ Carinae	3.15	45 42.179	1.501	−0.001	−64 48 41.92	16.69	+0.01	
370	6 Sextantis	6.00	48 24.681	3.023	0.000	− 3 58 48.32	16.86	−0.03	
371	μ Leonis	4.10	9 49 34.955	+3.412	−0.016	+26 16 17.79	−16.95	−0.06	
372	Grb 1586 UrsaeMaj.	5.96	53 25.295	5.368	−0.018	+73 8 49.74	17.11	−0.04	
373	183 G. Hydrae	5.16	52 13.634	2.830	−0.003	−18 44 36.00	17.06	−0.05	
374	19 Leonis Minoris	5.19	54 15.709	3.675	−0.011	+41 19 23.68	17.13	−0.03	
375	φ Velorum	3.70	54 53.590	2.106	−0.002	−54 18 1.71	17.12	+0.01	
376	12 Sextantis	6.63	9 56 48.795	+3.112	−0.005	+ 3 39 11.71	−17.20	+0.02	
377	η Antliae	5.25	56 27.897	2.574	−0.008	−35 37 20.19	17.23	−0.02	
378	π Leonis	4.89	9 57 15.309	3.171	−0.002	+ 8 18 49.33	17.26	−0.03	
379	η Leonis	3.58	10 4 16.899	3.271	0.000	+17 2 11.46	17.55	−0.01	
380	α Leonis	1.34	5 23.483	3.195	−0.017	+12 14 30.04	17.59	0.00	Regulus
381	λ Hydrae	3.83	10 7 51.405	+2.925	−0.014	−12 4 35.72	−17.79	−0.09	
382	191 G. Velorum	4.09	12 22.872	2.518	−0.014	−41 50 38.02	17.83	+0.04	
383	λ Ursae Majoris	3.52	13 43.639	3.619	−0.015	+43 11 41.32	17.97	−0.04	
384	ζ Leonis	3.65	13 34.728	3.337	+0.001	+23 41 49.57	17.93	−0.01	
385	ω Carinae	3.56	12 24.550	1.429	−0.005	−69 45 34.12	17.87	0.00	
386	μ Ursae Majoris	3.21	10 19 0.022	+3.575	−0.007	+41 46 54.86	−18.10	+0.03	
387	30 H. Ursae Majoris	4.92	20 7.036	4.328	−0.002	+65 51 1.70	18.20	−0.03	
388	25 Sextantis	6.10	20 36.600	3.032	−0.004	− 3 47 25.32	18.19	0.00	
389	μ Hydrae	4.06	23 22.807	2.902	−0.009	−16 32 59.31	18.37	−0.08	
390	β Leonis Minoris	4.41	24 39.063	3.470	−0.010	+36 59 41.39	18.44	−0.11	
391	I Carinae	4.08	10 23 17.389	+1.193	−0.003	−73 44 46.70	−18.31	−0.03	
392	α Antliae	4.42	24 35.173	2.746	−0.006	−30 46 55.01	18.32	+0.02	
393	196 G. Carinae	4.08	25 49.091	2.202	−0.002	−58 27 10.77	18.38	0.00	
394	36 Ursae Majoris	4.84	27 3.387	3.841	−0.022	+56 16 6.47	18.45	−0.04	
395	9 H. Draconis	5.04	30 23.412	5.105	−0.010	+76 0 8.47	18.54	−0.01	
396	ρ Leonis	3.85	10 29 51.310	+3.159	−0.001	+ 9 35 43.34	−18.52	−0.01	
397	203 G. Carinae	3.58	30 1.675	2.133	−0.003	−61 23 48.38	18.51	+0.01	
398	37 Ursae Majoris	5.16	31 34.136	3.866	+0.008	+57 22 18.38	18.54	+0.03	
399	44 Hydrae	5.32	31 20.896	2.854	−0.001	−23 27 21.67	18.55	+0.02	
400	† 222 G. Velorum *m*	4.05	34 56.565	2.521	−0.016	−47 56 3.37	18.70	−0.02	
401	γ Chamaeleontis	4.10	10 34 49.374	+0.714	−0.013	−78 19 1.55	−18.66	+0.02	
402	225 G. Velorum	4.37	37 4.342	2.388	−0.002	−55 18 40.21	18.75	0.00	
403	35 H. Ursae Majoris	5.23	39 5.232	4.299	−0.001	+69 22 11.31	18.83	−0.02	
404	33 Sextantis	6.40	38 33.215	3.052	−0.009	− 1 26 47.97	18.92	−0.13	
405	41 Leonis Minoris	5.05	40 22.446	3.262	−0.009	+23 29 55.63	18.84	+0.01	
406	ϑ Carinae	3.03	10 40 57.230	+2.140	−0.002	−64 6 1.98	−18.85	+0.01	
407	42 Leonis Minoris	5.37	42 45.317	3.336	−0.002	+30 58 40.08	18.96	−0.04	
408	† μ Velorum	2.84	44 21.328	2.580	+0.007	−49 7 25.47	19.01	−0.05	
409	53 Leonis	5.27	46 18.875	3.154	0.000	+10 50 31.30	19.05	−0.03	
410	ν Hydrae	3.32	46 51.582	2.960	+0.007	−15 54 0.50	18.84	+0.19	
411	δ^2 Chamaeleontis	4.62	10 45 16.851	+0.568	−0.015	−80 14 41.08	−18.99	0.00	
412	46 Leonis Minoris	3.92	50 11.102	3.356	+0.007	+34 31 2.01	19.41	−0.29	
413	Br 1503 Draconis	6.26	55 31.993	4.803	−0.025	+78 4 14.59	19.29	−0.03	
414	ℓ Antliae	4.70	54 6.203	2.796	+0.007	−36 50 10.66	19.35	−0.13	
415	239 G. Velorum	4.56	57 34.742	2.752	+0.002	−41 55 30.61	19.31	0.00	
416	β Ursae Majoris	2.44	10 58 28.517	+3.622	+0.010	+56 40 58.86	−19.30	+0.03	Merak(天旋)
417	α Ursae Majoris	1.95	11 0 17.319	3.704	−0.017	+62 3 13.45	19.44	−0.07	Dubhe(天樞)
418	χ Leonis	4.66	2 7.726	3.095	−0.023	+ 7 38 20.92	19.46	−0.05	
419	χ^1 Hydrae	5.06	2 37.799	2.890	−0.014	−26 59 27.25	19.42	0.00	
420	ψ Ursae Majoris	3.15	11 6 31.353	+3.374	−0.006	+44 48 9.88	−19.53	−0.03	

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			h m s	s	s	° ′ ″	″	″	
421	β Crateris	4.52	11 8 54.029	+2.951	0.000	−22 31 11.13	−19.65	−0.10	
422	δ Leonis	2.58	11 7.945	3.191	+0.010	+20 49 51.00	19.73	−0.14	
423	ϑ Leonis	3.41	11 18.174	3.148	−0.004	+15 44 9.47	19.68	−0.08	
424	Grb 1757 Ursae Maj.	5.97	13 33.000	3.382	−0.009	+49 46 55.93	19.65	−0.02	
425	ν Ursae Majoris	3.71	15 27.500	3.241	−0.002	+33 24 0.47	19.64	+0.02	
426	δ Crateris	3.82	11 16 32.299	+3.000	−0.009	−14 28 30.85	−19.49	+0.20	
427	σ Leonis	4.13	18 14.926	3.094	−0.006	+ 6 20 11.52	19.73	−0.01	
428	π Centauri	4.26	18 26.736	2.736	−0.003	−54 11 1.78	19.72	0.00	
429	Grb 1771 Ursae Maj.	5.98	19 32.680	3.567	−0.001	+64 38 13.92	19.70	+0.03	
430	† ε Leonis	4.03	21 0.363	3.128	+0.011	+10 50 16.56	19.83	−0.03	
431	γ Crateris	4.14	11 22 4.869	+2.997	−0.007	−17 22 34.36	−19.77	0.00	
432	58 Ursae Majoris	5.88	27 29.662	3.247	−0.005	+43 28 50.93	19.77	+0.08	
433	λ Draconis	4.06	28 6.156	3.564	−0.008	+69 38 25.35	19.87	−0.02	
434	ξ Hydrae	3.72	30 14.560	2.951	−0.016	−31 32 50.90	19.91	−0.04	
435	C^2 Centauri	5.42	33 12.228	2.907	+0.003	−47 19 51.30	19.96	−0.05	
436	λ Centauri	3.34	11 33 11.227	+2.766	−0.005	−62 42 34.97	−19.91	−0.01	
437	ν Leonis	4.47	34 4.823	3.072	0.000	− 0 30 51.86	19.88	+0.04	
438	π Chamaeleontis	5.74	34 56.207	2.474	−0.032	−75 35 10.33	19.92	+0.01	
439	ο Hydrae	4.88	37 25.578	2.980	−0.003	−34 26 2.58	19.94	0.00	
440	3 Draconis	5.48	39 21.980	3.348	−0.008	+67 3 17.80	19.93	+0.03	
441	χ Ursae Majoris	3.85	11 43 6.018	+3.169	−0.014	+48 5 23.94	−19.97	+0.02	
442	λ Muscae	3.80	42 57.072	2.831	−0.015	−66 25 5.44	19.96	+0.03	
443	65 G. Centauri	4.22	43 47.518	2.900	−0.004	−60 52 0.83	20.01	−0.02	
444	β Leonis	2.23	46 12.248	3.060	−0.034	+14 53 6.51	20.13	−0.12	Denebola
445	β Virginis	3.80	47 46.634	3.125	+0.049	+ 2 4 49.32	20.29	−0.27	
446	B Centauri	4.71	11 48 20.161	+2.997	−0.009	−44 51 43.13	−20.05	−0.03	
447	γ Ursae Majoris	2.54	50 53.624	3.157	+0.010	+54 0 22.10	20.02	+0.01	Phecda(天穀)
448	† ε Chamaeleontis *m*	5.05	11 56 48.925	2.973	−0.014	−77 54 35.60	20.04	0.00	
449	88 G. Centauri	5.28	12 0 45.057	3.106	+0.029	−42 7 13.66	20.16	−0.12	
450	ο Virginis	4.24	2 21.372	3.056	−0.015	+ 9 2 38.42	20.00	+0.05	
451	Grb 1852 Camelopardalis	5.96	12 2 25.938	+3.054	+0.044	+77 13 7.52	−20.14	−0.10	
452	δ Centauri	2.88	5 26.787	3.109	−0.003	−50 24 37.91	20.05	−0.01	
453	ε Corvi	3.21	7 14.409	3.086	−0.005	−22 18 30.04	20.02	+0.01	
454	Br 1634 Camelopardalis	5.12	9 35.939	2.813	+0.002	+77 55 38.30	20.01	+0.02	
455	δ Crucis	3.08	12 9.504	3.184	−0.004	−58 26 14.45	20.02	−0.01	
456	δ Ursae Majoris	3.44	12 12 39.755	+2.970	+0.012	+57 20 36.97	−20.01	0.00	(天權)
457	γ Corvi	2.78	12 55.333	3.085	−0.011	−17 13 52.00	20.00	+0.02	
458	2 Canum Venaticorum	5.80	13 19.430	3.007	+0.001	+40 58 18.28	20.05	−0.04	
459	β Chamaeleontis	4.38	15 1.084	3.511	−0.013	−79 0 4.81	19.98	+0.02	
460	η Virginis	4.00	17 2.344	3.070	−0.004	− 0 21 20.61	20.01	−0.02	
461	6 Canum Venaticorum	5.22	12 23 5.615	+2.956	−0.007	+39 19 44.60	−19.98	−0.04	
462	α Crucis *m*	1.58 2.09	23 28.335	3.335	−0.004	−62 47 20.74	19.95	−0.01	Acrux
463	323 G. Hydrae	5.68	23 54.211	3.161	−0.001	−32 31 11.03	19.96	−0.03	
464	σ Centauri	4.16	25 0.064	3.244	−0.003	−49 55 14.40	19.94	−0.02	
465	δ Corvi	3.11	26 57.758	3.104	−0.015	−16 12 13.90	20.05	−0.14	
466	20 Comae	5.72	12 26 54.490	+3.014	+0.002	+21 12 21.66	−19.94	−0.03	
467	74 Ursae Majoris	5.44	27 20.821	2.803	−0.009	+58 42 49.16	19.81	+0.09	
468	γ Crucis	1.61	28 2.768	3.327	+0.004	−56 47 59.16	20.16	−0.26	
469	γ Muscae	4.04	29 5.733	3.580	−0.009	−71 49 25.69	19.89	−0.01	
470	β Canum Venaticorum	4.32	31 5.199	2.849	−0.063	+41 39 41.53	19.57	+0.29	
471	β Corvi	2.84	12 31 26.437	+3.152	0.000	−23 5 14.15	−19.91	−0.06	
472	× Draconis	3.88	31 6.178	2.562	−0.012	+70 5 48.05	19.85	+0.01	
473	24 Comae *sq*	5.18	32 19.256	3.009	0.000	+18 41 6.36	19.82	+0.02	
474	α Muscae	2.94	33 49.265	3.575	−0.006	−68 49 37.66	19.84	−0.01	
475	χ Virginis	4.78	36 21.170	3.097	−0.005	− 7 41 15.66	19.82	−0.03	
476	† γ Centauri *m*	2.38	12 38 25.037	+3.308	−0.019	−48 39 8.61	−19.77	−0.01	
477	† γ Virginis *m*	3.65 3.68	38 49.215	3.040	−0.038	− 1 8 33.12	19.75	+0.01	
478	76 Ursae Majoris	5.92	39 7.514	2.622	−0.006	+63 1 12.66	19.77	−0.02	
479	330 G. Hydrae	5.73	41 1.032	3.197	−0.003	−28 1 0.63	19.76	−0.04	
480	† β Muscae *m*	3.26	12 42 49.434	+3.677	−0.005	−67 48 6.76	−19.72	−0.02	

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481	β Crucis	1.50	12 44 26.012	+3.504	−0.005	−59 22 58.25	−19.68	−0.01	
482	150 G. Centauri	4.34	50 19.580	3.322	+0.006	−39 52 28.67	19.59	−0.03	
483	ε Ursae Majoris	1.68	51 34.259	2.640	+0.013	+56 15 48.53	19.55	−0.01	Alioth(玉衡)
484	δ Virginis	3.66	52 46.852	3.022	−0.031	+ 3 42 5.00	19.57	−0.06	
485	α Canum Ven *sq*	2.90	53 24.644	2.807	−0.020	+38 37 13.42	19.45	+0.05	
486	8 Draconis	5.27	12 53 15.114	+2.389	−0.001	+65 44 30.79	−19.54	−0.04	
487	ζ Muscae	3.63	58 23.265	4.123	+0.057	−71 14 50.57	19.43	−0.03	
488	ε Virginis	2.95	12 59 23.295	2.986	−0.019	+11 15 35.06	19.35	+0.02	
489	ξ^2 Centauri	4.40	13 3 37.722	3.501	−0.003	−49 36 24.10	19.29	−0.01	
490	ϑ Virginis	4.44	7 2.834	3.106	−0.002	− 5 14 25.70	19.23	−0.04	
491	17 Canum Venaticorum	6.04	13 7 29.027	+2.755	−0.006	+38 47 45.87	−19.14	+0.04	
492	β Comae	4.32	9 15.652	2.800	−0.060	+28 9 41.42	18.26	+0.88	
493	η Muscae	4.95	11 25.593	4.062	−0.006	−67 35 54.22	19.09	−0.02	
494	20 Canum Venaticorum	4.66	15 2.019	2.690	−0.011	+40 52 1.04	18.96	+0.02	
495	γ Hydrae	3.33	15 52.317	3.262	+0.005	−22 52 35.94	19.00	−0.05	
496	ε Centauri	2.91	13 17 26.440	+3.372	−0.028	−36 25 2.78	−19.00	−0.09	
497	ζ Ursae Majoris *pr*	2.40	21 40.424	2.416	+0.014	+55 13 2.36	18.81	−0.03	Mizar(開陽)
498	α Virginis	1.21	22 14.344	3.161	−0.003	−10 52 10.62	18.80	−0.03	Spica(天門)
499	Grb 2001 Ursae Min.	6.07	24 42.182	1.529	+0.004	+72 40 54.95	18.70	−0.01	
500	69 H. Ursae Maj.	5.41	26 23.902	2.202	−0.011	+60 14 4.34	18.60	+0.03	
501	ζ Virginis	3.44	13 31 50.218	+3.057	−0.019	− 0 18 37.07	−18.42	+0.04	
502	17 H. Canum Ven	4.96	32 17.845	2.679	+0.007	+37 28 7.43	18.45	−0.01	
503	49 G. Chamaeleontis	6.44	34 21.212	5.124	−0.004	−75 23 57.05	18.38	−0.01	
504	ε Centauri	2.56	36 19.519	3.800	−0.002	−53 10 56.29	18.31	−0.01	
505	Grb 2029 Ursae Min.	5.67	35 49.999	1.440	−0.009	+71 31 36.74	18.32	−0.01	
506	1 Centauri	4.36	13 42 29.863	+3.409	−0.036	−32 45 40.53	−18.22	−0.15	
507	τ Bootis	4.51	44 36.002	2.851	−0.034	+17 44 6.55	17.96	+0.03	
508	μ Centauri	3.32	46 13.968	3.613	−0.002	−42 11 43.79	17.95	−0.02	
509	η Ursae Majoris	1.91	45 20.126	2.364	−0.013	+49 35 31.98	17.98	−0.01	Alkaid(搖光)
510	89 Virginis	5.11	46 49.408	3.260	−0.007	−17 51 21.62	17.95	−0.04	
511	10 Draconis	4.77	13 49 47.709	+1.752	0.000	+64 59 57.73	−17.80	−0.01	
512	ζ Centauri	3.06	52 2.053	3.741	−0.006	−47 0 48.34	17.74	−0.04	
513	η Bootis	2.80	52 1.036	2.857	−0.004	+18 40 39.64	18.06	−0.36	
514	294 G. Centauri	4.68	53 34.351	4.338	−0.005	−63 24 47.16	17.66	−0.03	
515	47 Hydrae	5.17	55 22.243	3.367	−0.003	−24 41 58.63	17.58	−0.03	
516	τ Virginis	4.34	13 58 47.622	+3.053	+0.001	+ 1 48 53.06	−17.43	−0.02	
517	11 Bootis	6.12	58 38.085	2.720	−0.006	+27 39 22.74	17.40	+0.01	
518	β Centauri	0.86	13 59 51.116	4.232	−0.003	−60 6 13.64	17.38	−0.02	
519	π Hydrae	3.48	14 3 10.545	3.417	+0.003	−26 24 48.41	17.36	−0.14	
520	ϑ Centauri	2.26	3 22.691	3.530	−0.043	−36 5 43.25	17.73	−0.52	
521	α Draconis	3.64	14 2 52.216	+1.624	−0.009	+64 38 34.77	−17.22	+0.01	
522	12 d Bootis	4.82	7 50.649	2.736	−0.002	+25 21 22.21	17.07	−0.06	
523	κ Virginis	4.31	9 54.249	+3.200	0.000	−10 0 50.30	16.77	+0.14	
524	4 Ursae Minoris	5.00	9 1.956	−0.239	−0.011	+77 48 38.19	16.92	+0.03	
525	ℓ Virginis	4.16	13 4.461	+3.146	−0.001	− 5 44 2.89	17.19	−0.43	
526	α Bootis	0.24	14 13 6.343	+2.736	−0.078	+19 28 23.49	−18.75	−0.22	Arcturus (大角)
527	λ Bootis	4.26	14 15.295	2.281	−0.018	+46 20 41.18	16.54	+0.16	
528	ι Bootis	4.73	14 10.933	2.124	−0.016	+51 37 29.70	16.62	+0.09	
529	ν Centauri	4.41	16 23.760	4.187	−0.002	−56 7 46.66	16.61	−0.01	
530	10 G. Circini	5.71	20 25.724	4.968	−0.002	−67 56 31.35	16.41	−0.01	
531	ϑ Bootis	4.06	14 23 17.364	+2.042	−0.026	+52 6 32.16	−16.65	−0.40	
532	52 Hydrae	5.00	24 53.184	3.514	−0.002	−29 14 27.64	16.19	−0.03	
533	φ Virginis	4.97	25 18.820	3.091	−0.009	− 1 58 40.37	16.15	0.00	
534	ρ Bootis	3.78	29 24.935	2.585	−0.008	+30 36 59.02	15.81	+0.12	
535	γ Bootis	3.00	29 49.348	2.416	−0.010	+38 33 8.66	15.76	+0.15	
536	Grb 2125 Draconis	6.18	14 30 11.408	+1.623	−0.007	+60 28 18.39	−15.88	+0.01	
537	η Centauri	2.65	31 56.451	3.809	−0.003	−41 54 46.76	15.83	−0.03	
538	α Centauri *cq*	0.33 1.70	35 46.842	4.076	−0.488	−60 36 20.05	14.88	+0.71	Rigil Kent
539	α Circini	3.41	37 57.276	4.845	−0.030	−64 43 58.17	15.70	−0.24	
540	33 Bootis	5.39	14 36 45.128	+2.232	−0.007	+44 38 43.78	−15.55	−0.02	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
541	α Lupi	2.89	14 33 11.593	+3.989	−0.002	−47 8 56.46	−15.47	−0.02	
542	α Apodis	3.81	40 48.301	7.434	−0.001	−78 48 33.88	15.33	−0.02	
543	† ζ Bootis *m*	3.86	38 28.353	2.865	+0.004	+13 58 3.16	15.46	−0.02	
544	371 G. Centauri	4.13	40 13.424	3.669	−0.005	−34 56 1.38	15.53	−0.19	
545	μ Virginis	3.95	40 6.313	3.162	+0.007	− 5 24 57.01	15.67	−0.32	
546	30 G. Lupi	5.20	14 43 5.373	+4.194	−0.002	−52 8 52.12	−15.26	−0.08	
547	109 Virginis	3.76	43 24.891	3.033	−0.007	+ 2 7 40.00	15.19	−0.03	
548	α^2 Librae	2.90	47 46.533	3.319	−0.007	−15 48 36.82	14.98	−0.07	
549	Grb 2164 Draconis	5.67	50 0.889	+1.523	−0.017	+59 31 15.43	14.64	+0.13	
550	β Ursae Minoris	2.24	50 50.698	−0.178	−0.008	+74 23 3.84	14.72	+0.01	Kochab
551	Pi 14^h 221 Bootis	5.77	14 53 34.506	+2.832	−0.001	+14 40 17.63	−14.57	0.00	
552	β Lupi	2.81	54 51.188	3.928	−0.004	−42 54 34.80	14.53	−0.04	
553	x Centauri	3.35	55 30.494	3.902	−0.001	−41 52 50.91	14.47	−0.03	
554	2 H. Ursae Minoris	4.86	56 41.076	0.953	−0.014	+66 9 18.21	14.35	+0.03	
555	β Bootis	3.63	14 59 50.113	2.260	−0.004	+40 36 37.99	14.22	−0.03	
556	σ Librae	3.41	15 0 47.174	+3.511	−0.005	−25 3 47.43	−14.17	−0.05	
557	ψ Bootis	4.67	2 2.670	2.571	−0.013	+27 9 53.99	14.05	−0.01	
558	ζ Lupi	3.50	8 14.875	4.308	−0.012	−51 53 15.38	13.72	−0.07	
559	ε Librae	4.66	9 1.420	3.420	−0.003	−19 34 51.89	13.64	−0.04	
560	γ Trianguli Australis	3.06	13 39.016	5.597	−0.011	−68 28 28.70	13.33	−0.03	
561	β Circini	4.16	15 13 6.688	+4.694	−0.013	−58 35 37.59	−13.48	−0.14	
562	3 Serpentis	5.44	12 24.153	2.982	−0.001	+ 5 8 45.89	13.38	0.00	
563	δ Bootis	3.54	13 14.606	2.419	+0.007	+33 31 21.74	13.45	−0.12	
564	β Librae	2.74	13 59.358	3.228	−0.007	− 9 10 39.17	13.30	−0.02	
565	1 H. Ursae Minoris	5.23	13 59.104	0.688	+0.037	+67 33 32.83	13.67	−0.39	
566	ψ^1 Lupi	3.59	15 18 14.643	+3.806	−0.003	−36 3 34.69	−13.09	−0.09	
567	$\varkappa^1$ Apodis	5.65	25 21.888	6.531	+0.002	−73 11 52.81	12.55	−0.03	
568	μ Bootis *pr*	4.47	22 22.402	+2.267	−0.012	+37 34 21.28	12.64	+0.08	
569	γ Ursae Minoris	3.14	20 47.925	−0.097	−0.005	+72 1 59.88	12.81	+0.02	
570	τ^1 Serpentis	5.46	23 11.417	+2.783	−0.001	+15 37 25.50	12.68	−0.01	
571	ε Draconis	3.47	15 23 40.744	+1.334	−0.002	+59 9 41.86	−12.62	+0.01	
572	β Coronae Borealis	3.72	25 31.106	2.474	−0.014	+29 17 51.72	12.43	+0.08	
573	ν^1 Bootis	5.15	28 54.956	2.155	+0.001	+41 1 23.08	12.28	−0.01	
574	ε Triangulis Australis	4.11	31 34.153	5.486	+0.004	−66 7 51.46	12.16	−0.07	
575	† γ Lupi *m*	2.95	31 23.992	3.997	−0.001	−40 58 48.15	12.13	−0.03	
576	ϑ Coronae Borealis	4.17	15 30 40.181	+2.419	−0.002	+31 32 49.29	−12.17	−0.02	
577	γ Librae	4.02	32 23.335	3.356	+0.004	−14 36 15.14	12.03	0.00	
578	α Coronae Borealis	2.31	32 18.911	2.540	+0.009	+26 54 7.49	12.13	−0.09	Alphecca
579	υ Librae	3.78	33 37.111	3.642	0.000	−27 57 3.79	11.95	0.00	
580	φ Bootis	5.41	35 48.817	2.155	+0.005	+40 32 5.19	11.74	+0.06	
581	† γ Coronae Borealis	3.93	15 40 23.346	+2.519	−0.003	+26 28 18.82	−11.43	+0.04	
582	α Serpentis	2.75	41 30.426	2.955	+0.009	+ 6 36 1.93	11.34	+0.05	Unuk
583	β Serpentis	3.74	43 36.062	2.769	+0.005	+15 35 45.03	11.28	−0.05	
584	x Serpentis	4.28	46 13.021	2.701	−0.003	+18 18 43.00	11.13	−0.09	
585	μ Serpentis	3.63	46 41.668	3.131	−0.005	− 3 15 36.85	11.04	−0.03	
586	χ Lupi	4.11	15 47 23.577	+3.812	−0.001	−33 27 29.47	−10.99	−0.03	
587	12 H. Draconis	5.13	45 48.337	0.914	+0.005	+62 46 19.77	11.14	−0.06	
588	ε Serpentis	3.75	48 1.304	2.991	+0.008	+ 4 38 41.96	10.85	+0.06	
589	β Triangulis Australis	3.04	50 11.247	+5.283	−0.028	−63 15 35.68	11.15	−0.39	
590	ζ Ursae Minoris	4.34	46 0.699	−2.148	+0.005	+77 58 3.52	11.07	0.00	
591	γ Serpentis	3.86	15 53 51.840	+2.771	+0.021	+15 50 35.16	−11.77	−1.29	
592	π Scorpii	3.00	55 27.522	3.629	−0.001	−25 57 15.82	10.39	−0.02	
593	ε Coronae Borealis	4.22	55 16.019	2.484	−0.006	+27 2 19.95	10.44	−0.05	
594	δ Scorpii	2.54	57 1.037	3.548	−0.001	−22 27 49.99	10.27	−0.03	Dschubba
595	Grb 2296 Draconis	4.96	15 56 27.440	1.423	−0.019	+54 54 26.21	10.18	+0.11	
596	δ Normae	4.84	16 2 31.449	+4.239	0.000	−45 1 22.85	− 9.80	+0.03	
597	β Scorpii *pr*	2.90	2 10.578	3.489	0.000	−19 39 13.37	9.88	−0.02	
598	ϑ Draconis	4.11	0 50.093	1.124	−0.041	+58 42 51.35	9.62	+0.34	
599	ϑ Lupi	4.33	2 54.455	3.939	−0.002	−36 39 5.67	9.83	−0.04	
600	x Normae	5.09	16 9 2.951	+4.730	−0.001	−54 29 15.49	− 9.35	−0.03	

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601	φ Herculis	4.26	16 7 0.165	+1.890	−0.003	+45 4 50.89	− 9.45	+0.03	
602	δ Triangulis Australis	4.03	10 19.337	5.458	+0.001	−63 32 41.81	9.24	−0.01	
603	δ Ophiuchi	3.03	11 24.464	3.144	−0.003	− 3 33 5.81	9.29	−0.15	
604	γ^2 Normae	4.14	15 38.375	4.488	−0.017	−50 1 12.51	8.87	−0.05	
605	ε Ophiuchi	3.34	15 21.302	+3.174	+0.005	− 4 33 26.83	8.80	+0.04	
606	19 Ursae Minoris	5.51	16 12 23.447	−1.714	−0.001	+76 1 9.72	− 9.06	+0.01	
607	σ Scorpii	3.08	17 46.780	+3.647	−0.001	−25 27 36.34	8.67	−0.02	
608	τ Herculis	3.91	18 3.304	1.803	−0.001	+46 26 45.06	8.59	+0.04	
609	γ Herculis	3.79	19 26.854	2.646	−0.004	+19 17 0.16	8.47	+0.04	
610	ζ Triangulis Australis	4.93	22 25.172	6.450	+0.040	−69 57 39.64	8.17	+0.10	
611	γ Apodis	3.90	16 24 47.557	+9.194	−0.041	−78 46 31.54	− 8.15	−0.07	
612	η Ursae Minoris	5.04	19 6.804	−1.757	−0.023	+75 53 6.42	8.29	+0.25	
613	ω Herculis	4.53	22 49.743	+2.769	+0.003	+14 9 39.13	8.30	−0.06	
614	Grb 2343 Draconis	5.66	23 11.627	1.312	+0.001	+55 19 54.33	8.20	+0.02	
615	† η Draconis	2.89	23 13.605	0.812	−0.003	+61 38 25.99	8.16	+0.06	
616	α Scorpii	1.22	16 25 58.171	+3.679	0.000	−26 18 33.95	− 8.02	−0.02	Antares (大火)
617	† λ Ophiuchi *m*	3.85	28 5.184	3.026	−0.002	+ 2 6 18.39	7.90	−0.07	
618	β Herculis	2.81	27 43.630	+2.579	−0.007	+21 36 37.30	7.86	−0.02	
619	A Draconis	4.98	28 4.883	−0.118	−0.005	+68 53 21.61	7.79	+0.03	
620	τ Scorpii	2.91	32 23.493	+3.735	−0.001	−23 6 5.67	7.50	−0.02	
621	σ Herculis	4.25	16 32 17.725	+1.934	−0.001	+42 33 5.66	− 7.44	+0.04	
622	ζ Ophiuchi	2.70	34 4.316	+3.304	+0.001	−10 27 18.95	7.31	+0.02	
623	Grb 2373 Ursae Min.	6.39	33 1.153	−2.585	−0.033	+77 33 33.01	7.15	+0.27	
624	Br 2114 Ophiuchi	5.04	38 19.814	+3.470	−0.002	−17 38 7.64	6.99	0.00	
625	α Triangulis Australis	1.88	42 42.947	6.351	+0.005	−68 55 40.07	6.66	−0.03	
626	η Herculis	3.61	16 40 58.444	+2.057	+0.003	+39 1 39.91	− 6.86	−0.08	
627	Grb 2377 Draconis	4.88	44 13.825	1.138	+0.002	+56 52 53.00	6.44	+0.07	
628	ε Scorpii	2.36	46 31.892	3.886	−0.049	−34 11 36.12	6.57	−0.25	
629	49 Herculis	6.41	49 31.739	2.731	+0.001	+15 4 0.51	6.06	0.00	
630	† ζ^2 Scorpii	3.75	50 33.205	4.221	−0.011	−42 16 2.60	6.21	−0.23	
631	ζ Arae	3.06	16 53 58.620	+4.964	−0.002	−55 54 14.26	− 5.72	−0.03	
632	ε^1 Arae	4.15	55 6.740	4.781	0.000	−53 4 35.59	5.58	+0.02	
633	x Ophiuchi	3.42	55 0.924	2.840	−0.020	+ 9 27 38.43	5.61	−0.01	
634	ε Herculis	3.92	16 58 8.694	2.295	−0.004	+31 0 27.82	5.31	+0.03	
635	60 Herculis	4.91	17 2 46.751	2.782	+0.003	+12 48 58.84	4.96	−0.01	
636	Grb 2415 Herculis	6.27	17 5 56.982	+1.957	−0.003	+40 35 17.64	− 4.71	−0.03	
637	† η Ophiuchi *m*	2.63	7 9.814	3.440	+0.003	−15 39 26.17	4.48	+0.09	Sabik
638	η Scorpii	3.44	8 8.225	4.297	+0.002	−43 10 2.41	4.78	−0.28	
639	ζ Draconis	3.22	8 37.135	0.174	−0.003	+65 47 0.62	4.44	+0.02	
640	† α Herculis *pr*	3.1-3.9 Var.	12 5.529	2.736	−0.001	+14 27 10.06	4.12	+0.04	
641	δ Herculis	3.16	17 12 43.769	+2.464	−0.002	+24 54 14.20	− 4.26	−0.16	
642	ε Apodis	5.60	15 50.359	6.691	+0.001	−70 4 3.06	3.85	−0.01	
643	π Herculis	3.36	13 5.679	2.089	−0.003	+36 52 16.30	4.07	0.00	
644	ϑ Ophiuchi	3.37	18 34.046	3.684	0.000	−24 56 43.57	3.62	−0.02	
645	β Arae	2.80	20 33.319	4.987	−0.001	−55 28 45.56	3.45	−0.02	
646	45 Ophiuchi	4.37	17 23 46.520	+3.831	+0.001	−29 49 5.66	− 3.29	−0.14	
647	27 H. Ophiuchi	4.61	23 39.452	3.183	−0.006	− 5 2 19.31	3.21	−0.04	
648	δ Arae	3.79	26 2.241	5.416	−0.007	−60 38 22.46	3.04	−0.09	
649	υ Scorpii	2.80	26 57.181	4.079	0.000	−37 15 11.14	2.91	−0.03	
650	77 Herculis	5.81	25 15.026	1.590	0.000	+48 18 22.30	3.03	−0.01	
651	α Arae	2.97	17 27 30.510	+4.638	−0.003	−49 50 2.39	− 2.90	−0.07	
652	λ Scorpii	1.71	29 48.163	4.074	0.000	−37 3 53.66	2.66	−0.03	Shaula
653	β Draconis	2.99	29 9.894	1.355	−0.002	+52 20 31.68	2.68	+0.01	
654	ϑ Scorpii	2.04	33 17.493	4.311	+0.001	−42 57 51.16	2.33	0.00	
655	ν^1 Draconis	4.98	31 4.214	1.181	+0.016	+55 13 18.81	2.47	+0.05	
656	α Ophiuchi	2.14	17 32 19.992	+2.785	+0.008	+12 35 57.69	− 2.64	−0.23	Rasalague
657	ν^2 Draconis	4.95	31 9.641	1.182	+0.017	+55 12 37.55	2.46	+0.05	
658	ξ Serpentis	3.64	34 22.659	+3.435	−0.003	−15 21 54.20	2.30	−0.06	
659	27 Draconis	5.21	32 10.990	−0.241	−0.003	+68 10 14.96	2.29	+0.13	
660	x Scorpii	2.51	17 38 36.638	+4.150	0.000	−39 0 11.44	− 1.89	−0.03	

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			h m s	s	s	° ′ ″	″	″	
661	η Pavonis	3.58	17 40 13.932	+5.889	0.000	−64 41 59.29	− 1.77	−0.50	
662	μ Arae	5.26	39 41.657	4.763	−0.002	−51 48 23.17	1.96	−0.19	
663	ε Herculis	3.79	37 52.911	+1.693	−0.001	+46 2 6.82	1.93	0.00	
664	ω Draconis	4.87	37 16.467	−0.352	0.000	+68 47 2.53	1.66	+0.32	
665	β Ophiuchi	2.94	40 42.261	+2.964	−0.003	+ 4 35 20.90	1.53	+0.16	
666	ε¹ Scorpii	3.14	17 43 39.919	+4.196	0.000	−40 6 26.32	− 1.43	0.00	
667	μ Herculis	3.48	44 15.889	2.348	−0.024	+27 45 8.25	2.12	−0.74	
668	γ Ophiuchi	3.74	45 4.976	3.008	−0.002	+ 2 43 36.58	1.37	−0.07	
669	G Scorpii	3.25	46 2.684	+4.084	+0.005	−37 1 38.57	1.18	+0.03	
670	ψ Draconis *pr*	4.90	42 55.713	−1.067	+0.004	+72 10 36.80	1.76	−0.27	
671	ξ Draconis	3.90	17 52 33.494	+1.037	+0.011	+56 52 51.04	− 0.57	+0.08	
672	θ Herculis	3.99	54 19.841	2.057	0.000	+37 15 24.60	0.49	+0.01	
673	ν Ophiuchi	3.50	55 56.515	3.303	−0.001	− 9 46 6.43	0.47	−0.12	
674	ξ Herculis	3.82	55 35.224	+2.331	+0.006	+29 15 9.62	0.40	−0.02	
675	35 Draconis	5.04	51 57.093	−2.687	+0.011	+76 58 17.89	0.46	+0.25	
676	γ Draconis	2.42	17 55 18.225	+1.393	−0.001	+51 29 41.10	− 0.43	−0.02	Etamin
677	67 Ophiuchi	3.92	17 57 50.312	3.004	0.000	+ 2 55 57.66	− 0.20	−0.01	
678	66 G. Apodis	5.69	18 3 25.741	8.395	+0.004	−75 53 48.17	+ 0.03	−0.28	
679	γ Sagittarii	3.07	2 12.553	3.854	−0.004	−30 25 35.96	0.01	−0.18	
680	72 Ophiuchi	3.73	4 41.595	2.844	−0.004	+ 9 33 15.93	0.50	+0.08	
681	o Herculis	3.83	18 5 21.377	+2.340	0.000	+28 45 12.84	+ 0.48	+0.01	
682	μ Sagittarii	4.01	10 24.791	3.588	0.000	−21 4 31.15	0.91	0.00	
683	η Sagittarii	3.16	13 50.196	4.059	−0.011	−36 46 49.67	1.05	−0.16	
684	Grb 2533 Lyrae	5.42	13 54.146	1.866	−0.001	+42 8 21.06	1.21	0.00	
685	36 Draconis	5.03	13 34.367	0.345	+0.053	+64 22 41.07	1.22	+0.03	
686	ξ Pavonis	4.25	18 18 3.994	+5.528	0.000	−61 31 19.28	+ 1.59	0.00	
687	δ Sagittarii	2.84	17 24.510	3.841	+0.003	−29 51 13.74	1.50	−0.03	
688	η Serpentis	3.42	18 24.636	3.104	−0.037	− 2 54 53.78	0.91	−0.70	
689	ε Sagittarii	1.95	20 27.304	3.983	−0.002	−34 24 47.01	1.66	−0.13	Kaus Austr.
690	109 Herculis	3.92	21 18.605	2.556	+0.014	+21 44 34.71	1.62	−0.24	
691	α Telescopii	3.76	18 22 49.258	+4.448	−0.002	−46 0 4.69	+ 1.95	−0.04	
692	λ Sagittarii	2.94	24 30.837	+3.702	−0.003	−25 27 15.99	1.96	−0.18	
693	†² Draconis *m*	4.24	21 33.676	−0.861	−0.002	+71 18 30.76	1.92	+0.04	
694	† 39 Draconis	4.85	23 5.457	+0.875	−0.006	+58 46 4.00	2.08	+0.06	
695	χ Draconis	3.69	22 3.982	−1.083	+0.117	+72 42 32.84	1.57	−0.36	
696	γ Scuti	4.73	18 26 0.285	+3.419	0.000	−14 36 11.68	+ 2.27	0.00	
697	ϑ Coronae Australis	4.69	29 30.232	4.284	+0.003	−42 21 17.65	2.56	−0.02	
698	ζ Pavonis	4.10	36 30.253	7.013	+0.001	−71 28 46.60	3.02	−0.16	
699	α Lyrae	0.14	35 2.473	+2.031	+0.017	+38 43 49.53	3.34	+0.28	Vega(織女)
700	Grb 2655 Draconis	5.84	32 27.848	−2.898	−0.001	+77 30 17.53	2.83	0.00	
701	Grb 2640 Draconis	6.00	18 36 2.693	+0.187	+0.002	+65 26 18.36	+ 3.22	+0.08	
702	ε Scuti	5.09	40 28.214	3.267	+0.001	− 8 19 55.92	3.53	+0.01	
703	110 Herculis	4.26	43 15.009	2.582	−0.001	+20 29 29.04	3.43	−0.33	
704	λ Pavonis	4.42	47 2.020	5.559	−0.001	−62 15 15.97	4.07	−0.02	
705	β Lyrae	3.4-4.3 Var.	48 0.648	2.215	0.000	+33 17 47.51	4.17	0.00	
706	σ Sagittarii	2.14	18 51 47.602	+3.720	+0.001	−26 22 5.14	+ 4.44	−0.06	Nunki
707	o Draconis	4.78	50 22.482	0.885	+0.010	+59 19 9.89	4.40	+0.02	
708	λ Telescopii	5.03	53 59.207	4.800	+0.002	−53 0 50.60	4.69	+0.01	
709	ϑ Serpentis *pr*	4.50	53 26.082	2.982	+0.003	+ 4 7 45.46	4.67	+0.04	
710	ξ² Sagittarii	3.61	54 23.343	3.579	+0.002	−21 10 55.35	4.70	−0.01	
711	R Lyrae	4.0-4.5 Var.	18 53 37.781	+1.825	+0.002	+43 52 17.02	+ 4.73	+0.08	
712	ε Aquilae	4.21	57 4.776	2.723	−0.004	+14 59 27.05	4.87	−0.07	
713	γ Lyrae	3.30	56 50.832	+2.244	−0.001	+32 36 41.65	4.92	0.00	
714	υ Draconis	4.91	55 5.341	−0.735	+0.010	+71 13 22.04	4.82	+0.05	
715	† ζ Sagittarii *m*	2.71	18 59 2.982	+3.817	−0.001	−29 57 43.55	5.11	0.00	
716	ζ Aquilae	3.02	19 2 50.101	+2.757	−0.001	+13 46 43.80	+ 5.33	−0.09	
717	λ Aquilae	3.55	3 16.580	3.183	−0.002	− 4 58 5.08	5.38	−0.09	
718	α Coronae Australis	4.12	5 39.862	4.082	+0.007	−37 59 37.00	5.57	−0.10	
719	ε Lyrae	5.13	5 18.097	2.140	−0.001	+36 0 40.79	5.64	0.00	
720	π Sagittarii	3.02	19 6 26.041	+3.568	0.000	−21 6 51.91	+ 5.70	−0.04	

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			h m s	s	s	° ′ ″	″	″	
721	† 60 G. Pavonis *m*	5.57	19 11 35.003	+6.035	+0.001	−66 45 38.43	+ 6.14	−0.02	
722	43 Sagittarii	5.03	14 21.531	3.510	−0.001	−19 3 15.56	6.38	−0.02	
723	δ Draconis	3.24	12 32.754	0.014	+0.016	+67 33 47.02	6.33	+0.09	
724	ϑ Lyrae	4.46	14 25.366	2.082	−0.001	+38 1 58.54	6.40	0.00	
725	ω Aquilae	5.14	15 11.201	2.816	0.000	+11 29 35.09	6.48	+0.02	
726	κ Cygni	3.98	19 15 48.479	+1.386	+0.006	+53 15 52.00	+ 6.63	+0.12	
727	υ Sagittarii	4.58	18 31.211	3.435	0.000	−16 3 42.32	6.73	−0.01	
728	α Sagittarii	4.11	20 0.546	+4.157	+0.003	−40 43 23.44	6.74	−0.12	
729	τ Draconis	4.63	16 38.402	−1.155	−0.033	+73 15 7.79	6.69	+0.11	
730	δ Aquilae	3.44	22 40.447	+3.024	+0.017	+ 3 0 6.01	7.16	+0.08	
731	186 G. Sagittarii	5.68	19 23 24.250	+3.791	+0.002	−29 51 20.50	+ 7.09	−0.04	
732	β Cygni *pr*	3.24	28 27.696	2.419	0.000	+27 50 27.03	7.54	0.00	Albireo
733	ε Cygni	3.94	28 17.612	+1.512	+0.002	+51 36 35.01	7.66	+0.13	
734	Grb 2900 Draconis	6.00	25 6.745	−3.637	+0.004	+79 29 32.49	7.24	−0.03	
735	ε Telescopii	5.02	31 3.995	+4.451	−0.002	−48 13 18.89	7.73	−0.03	
736	52 Sagittarii	4.66	19 33 18.056	+3.651	+0.005	−25 0 31.99	+ 7.92	−0.02	
737	κ Aquilae	5.04	33 52.710	3.227	0.000	− 7 9 12.73	7.98	0.00	
738	ϑ Cygni	4.64	34 56.311	1.608	−0.003	+50 5 26.03	8.32	+0.25	
739	ν Telescopii	5.52	43 27.340	4.900	+0.010	−56 29 57.30	8.62	−0.13	
740	15 Cygni	5.02	42 15.319	2.163	+0.006	+37 13 4.82	8.68	+0.03	
741	γ Aquilae	2.80	19 43 35.793	+2.852	+0.001	+10 28 31.86	+ 8.76	0.00	
742	† δ Cygni	2.97	43 13.425	1.875	+0.004	+44 59 35.54	8.78	+0.05	
743	δ Sagittae	3.78	44 53.373	2.675	0.000	+18 23 41.48	8.87	+0.01	
744	51 Aquilae	5.55	47 41.970	3.301	−0.002	−10 54 25.58	9.11	+0.03	
745	α Aquilae	0.89	48 3.024	2.927	+0.036	+ 8 43 8.74	9.49	+0.39	Altair(牽牛)
746	η Aquilae	3.7-4.4 Var.	19 49 37.188	+3.056	0.000	+ 0 51 37.93	+ 9.22	0.00	
747	† ε Draconis	3.99	48 22.289	−0.203	+0.015	+70 7 31.63	9.17	+0.04	
748	ε Pavonis	4.10	54 9.150	+6.946	+0.019	−73 3 40.62	9.45	−0.13	
749	β Aquilae	3.90	52 33.698	2.946	+0.003	+ 6 15 55.99	8.98	−0.48	
750	† ψ Cygni	4.80	54 10.872	1.550	−0.005	+52 17 22.40	9.55	−0.03	
751	ϑ¹ Sagittarii	4.39	19 56 5.671	+3.904	0.000	−35 25 45.77	+ 9.70	−0.02	
752	γ Sagittae	3.71	56 15.919	2.667	+0.004	+19 20 19.94	9.77	+0.03	
753	62 Sagittarii	4.60	19 59 13.033	3.689	+0.003	−27 52 1.59	9.98	+0.02	
754	δ Pavonis	3.64	20 3 15.086	5.888	+0.197	−66 19 38.20	9.13	−1.14	
755	ξ Telescopii	4.86	3 6.259	4.597	−0.001	−53 2 34.81	10.27	+0.01	
756	ϑ Aquilae	3.37	20 8 24.920	+3.095	+0.002	− 0 59 20.17	+10.66	+0.01	
757	31 o¹ Cygni	3.95	11 52.007	1.889	0.000	+46 34 14.43	10.91	+0.01	
758	33 Cygni	4.32	12 5.776	+1.394	+0.007	+56 23 44.83	11.01	+0.08	
759	κ Cephei	4.40	10 48.656	−2.016	+0.002	+77 32 37.40	10.86	+0.03	
760	24 Vulpeculae	5.45	14 23.219	+2.567	+0.001	+24 29 51.00	11.08	−0.01	
761	α² Capricorni	3.77	20 14 56.908	+3.328	+0.004	−12 43 11.42	+11.14	+0.01	
762	β Capricorni	3.25	17 51.976	3.370	+0.003	−14 57 34.79	11.35	0.00	Peacock
763	κ¹ Sagittarii	5.64	18 39.720	4.074	+0.003	−42 13 39.70	11.32	−0.09	
764	α Pavonis	2.12	21 13.777	4.748	+0.001	−56 54 58.97	11.51	−0.08	
765	γ Cygni	2.32	20 13.017	2.153	0.000	+40 4 35.40	11.51	0.00	
766	† ρ Capricorni	4.96	20 25 40.066	+3.421	−0.001	−18 0 0.66	+11.88	−0.02	
767	ϑ Cephei	4.28	28 38.649	1.007	+0.006	+62 48 19.73	12.10	−0.01	
768	ε Delphini	3.98	30 32.198	2.866	0.000	+11 6 42.47	12.22	−0.02	
769	α Indi	3.21	33 38.182	+4.220	+0.005	−47 29 17.98	12.53	+0.07	
770	73 Draconis	5.18	32 16.116	−0.789	+0.001	+74 45 47.05	12.35	−0.01	
771	† β Delphini *m*	3.72	20 34 55.322	+2.813	+0.007	+14 23 57.23	+ 12.51	−0.03	
772	κ Delphini	5.23	36 24.506	2.913	+0.021	+ 9 53 15.88	12.66	+0.02	
773	υ Capricorni	5.33	36 51.821	3.415	−0.002	−18 20 13.83	12.66	−0.02	
774	α Delphini	3.86	37 2.149	2.736	+0.004	+15 42 48.19	12.69	0.00	
775	β Pavonis	3.60	39 56.222	5.410	−0.006	−66 24 22.81	12.90	+0.02	
776	η Indi	4.70	20 39 56.247	+4.406	+0.017	−52 7 21.58	+12.83	−0.05	
777	α Cygni	1.33	39 31.275	2.045	0.000	+45 4 45.90	12.86	0.00	Deneb
778	δ Delphini	4.53	40 50.604	2.801	−0.002	+14 52 21.28	12.90	−0.04	
779	ψ Capricorni	4.26	42 46.974	3.552	−0.004	−25 28 24.68	12.92	−0.15	
780	ε Cygni	2.64	20 43 56.608	+2.427	+0.028	+33 45 34.36	+13.48	+0.33	

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781	ε Aquarii	3.83	20 44 38.730	+3.247	+0.002	− 9 42 7.23	+13.16	−0.03	
782	6 H. Cephei	4.63	43 57.699	1.489	−0.009	+57 22 41.53	12.91	−0.23	
783	η Cephei	3.59	44 9.179	1.220	+0.013	+61 37 15.03	13.98	+0.82	
784	† λ Cygni *m*	4.47	45 13.514	2.337	0.000	+36 17 2.55	13.23	0.00	
785	β Indi	3.72	50 26.919	4.690	+0.002	−58 40 1.41	13.55	−0.02	
786	32 Vulpeculae	5.24	20 52 10.287	+2.557	−0.001	+27 50 37.21	+13.68	0.00	
787	α Octantis	5.24	58 0.445	7.283	+0.003	−77 14 23.36	13.69	−0.36	
788	ν Cygni	4.04	55 4.998	2.236	0.000	+40 57 2.80	13.86	−0.01	
789	11 Aquarii	6.26	57 36.916	3.158	+0.003	− 4 55 51.72	13.89	−0.13	
790	ζ Microscopii	5.35	20 59 23.611	3.834	−0.002	−38 51 5.28	14.03	−0.11	
791	A Capricorni	4.60	21 3 51.334	+3.509	−0.002	−25 13 51.49	+14.37	−0.04	
792	ξ Cygni	3.92	2 53.504	2.182	0.000	+43 42 13.17	14.36	0.00	
793	61 Cygni *pr*	5.57	4 22.997	2.687	+0.350	+38 28 23.01	17.70	+3.26	
794	ν Aquarii	4.52	6 32.697	+3.268	+0.006	−11 35 58.53	14.56	−0.01	
795	Br 2777 Cephei	5.90	6 39.207	−1.199	+0.006	+77 53 59.23	14.61	+0.04	
796	23 G. Indi	5.84	21 11 46.529	+4.284	+0.002	−53 29 46.29	+14.87	−0.01	
797	ζ Cygni	3.40	10 33.038	2.553	0.000	+29 59 46.89	14.76	−0.05	
798	† Grb 3415 Cephei *m*	5.65	10 22.684	1.527	−0.001	+59 45 20.56	14.80	0.00	
799	† τ Cygni	3.82	12 33.196	2.395	+0.013	+37 48 20.06	15.37	+0.44	
800	α Equulei	4.14	13 1.444	2.999	+0.004	+ 5 0 55.10	14.87	−0.08	
801	ε Microscopii	4.79	21 14 32.796	+3.638	+0.004	−32 24 27.77	+15.02	−0.02	
802	g^1 Microscopii	4.92	17 11.106	3.837	+0.006	−41 2 51.01	15.20	0.00	
803	α Cephei	2.60	17 14.582	1.432	+0.021	+62 20 52.22	15.25	+0.05	Alderamin
804	I Pegasi	4.24	19 29.701	2.774	+0.007	+19 33 50.42	15.39	+0.07	
805	γ Pavonis	4.30	21 50.420	4.965	+0.015	−65 37 16.28	16.26	+0.80	
806	ζ Capricorni	3.86	21 23 28.336	+3.425	0.000	−22 39 17.92	+15.58	+0.03	
807	71 Cygni	5.34	27 22.802	2.214	+0.004	+46 17 34.71	15.87	+0.11	
808	β Aquarii	3.07	28 36.701	3.158	+0.001	− 5 49 6.66	15.82	0.00	
809	β Cephei	3.32	27 56.701	0.775	+0.002	+70 18 53.06	15.81	+0.01	
810	ν Octantis	3.74	35 19.857	6.689	+0.018	−77 38 25.98	15.94	−0.24	
811	74 Cygni	5.09	21 34 42.079	+2.405	−0.001	+40 9 40.63	+16.17	+0.02	
812	γ Capricorni	3.80	36 59.429	3.324	+0.013	−16 54 58.64	16.25	−0.02	
813	13 H. Cephei	5.64	37 13.227	1.861	−0.001	+57 14 6.94	16.28	0.00	
814	ι Piscis Australis	4.35	41 36.985	3.574	+0.003	−33 16 56.37	16.41	−0.09	
815	ε Pegasi	2.54	41 26.076	2.946	+0.002	+ 9 37 2.64	16.50	0.00	Enif
816	† κ Pegasi *m*	4.27	21 42 6.413	+2.717	+0.002	+25 23 12.70	+16.54	+0.02	
817	11 Cephei	4.85	41 6.456	0.879	+0.024	+71 3 12.29	16.58	+0.11	
818	λ Capricorni	5.43	43 31.310	3.229	+0.002	−11 37 30.38	16.59	0.00	
819	δ Capricorni	2.98	43 57.125	3.311	+0.018	−16 22 56.43	16.32	−0.29	
820	ο Indi	5.50	46 5.060	5.081	−0.004	−69 53 28.97	16.72	0.00	
821	π^2 Cygni	4.26	21 44 43.272	+2.216	0.000	+49 2 59.34	+16.66	0.00	
822	γ Gruis	3.16	50 32.639	3.633	+0.008	−37 37 44.86	16.92	−0.01	
823	16 Pegasi	5.05	50 30.695	2.730	0.000	+25 39 39.29	16.93	0.00	
824	ε Indi	4.56	54 7.266	4.085	+0.006	−55 15 35.51	17.09	0.00	
825	ε Indi	4.74	59 5.481	4.590	+0.481	−57 1 2.04	14.77	−2.55	
826	20 Pegasi	5.66	21 58 21.552	+2.922	+0.004	+12 51 3.50	+17.24	−0.05	
827	α Aquarii	3.19	22 2 54.460	3.081	+0.001	− 0 35 33.52	17.48	0.00	
828	ζ Aquarii	4.35	3 24.866	3.240	+0.003	−14 8 31.78	17.45	−0.05	
829	α Gruis	2.16	4 42.768	3.782	+0.012	−47 13 58.97	17.41	−0.15	Al Na'ir
830	20 Cephei	5.39	3 18.218	1.823	+0.002	+62 30 43.31	17.56	+0.06	
831	ι Pegasi	3.96	22 4 24.070	+2.793	+0.022	+25 4 15.26	+17.58	+0.03	
832	μ Piscis Australis	4.62	5 7.290	3.501	+0.006	−33 15 45.71	17.54	−0.04	
833	27 Pegasi	5.65	6 44.545	2.658	−0.005	+32 53 53.24	17.58	−0.06	
834	ϑ Pegasi	3.70	7 22.439	3.026	+0.018	+ 5 55 18.13	17.71	+0.04	
835	π Pegasi	4.38	7 29.812	2.664	−0.001	+32 54 10.03	17.66	−0.02	
836	ζ Cephei	3.62	22 8 54.444	+2.081	+0.001	+57 55 29.03	+17.74	+0.01	
837	24 Cephei	4.99	8 44.080	1.153	+0.006	+72 3 54.77	17.74	+0.01	
838	λ Piscis Australis	5.40	11 8.558	3.401	+0.002	−28 2 43.21	17.83	0.00	
839	ε Octantis	5.11	13 52.506	6.754	+0.030	−80 43 11.53	17.90	−0.03	
840	ϑ Aquarii	4.32	22 13 52.772	+3.165	+0.008	− 8 3 46.30	17.92	−0.02	

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841	α Tucanae	2.91	22 14 41.024	+4.114	−0.008	−60 32 22.39	+17.93	−0.03	
842	γ Aquarii	3.97	18 45.832	3.098	+0.009	− 1 40 12.63	18.13	+0.01	
843	31 Pegasi	4.93	18 45.586	2.953	0.000	+11 55 21.06	18.14	+0.02	
844	β Lacertae	4.58	21 21.163	2.359	−0.002	+51 56 52.67	18.03	−0.19	
845	ν Gruis	5.48	25 22.646	3.517	+0.003	−39 24 56.80	18.20	−0.16	
846	g^1 Gruis	4.02	22 25 55.814	+3.586	+0.002	−43 46 56.48	+18.38	0.00	
847	δ Cephei	3.7-4.4 Var.	27 5.156	2.227	+0.001	+58 7 41.07	18.42	0.00	
848	α Lacertae	3.85	28 58.731	2.471	+0.014	+49 59 38.89	18.51	+0.02	
849	υ Aquarii	5.29	31 37.986	3.282	+0.016	−20 59 44.63	18.43	−0.14	
850	η Aquarii	4.13	32 28.715	3.083	+0.006	− 0 24 24.07	18.55	−0.05	
851	31 Cephei	5.22	22 34 23.078	+1.481	+0.039	+73 21 8.25	+18.69	+0.03	
852	10 Lacertae	4.91	36 44.627	2.692	0.000	+38 45 29.91	18.73	0.00	
853	30 Cephei	5.21	36 39.465	2.127	−0.001	+63 17 34.81	18.71	−0.02	
854	ε Piscis Australis	4.22	37 33.724	3.318	+0.002	−27 20 10.38	18.77	+0.01	
855	ζ Pegasi	3.61	38 40.047	2.992	+0.005	+10 32 18.67	18.79	−0.01	
856	β Gruis	2.24	22 39 19.934	+3.583	+0.013	−47 10 40.92	+18.81	0.00	
857	η Pegasi	3.10	40 22.393	2.812	+0.001	+29 55 40.42	18.82	−0.02	
858	13 Lacertae	5.24	41 35.318	2.675	−0.001	+41 31 29.90	18.89	+0.01	
859	λ Pegasi	4.14	43 49.828	2.890	+0.004	+23 16 13.72	18.94	−0.01	
860	ε Gruis	3.69	45 10.935	3.625	+0.011	−51 36 42.55	18.93	−0.06	
861	τ Aquarii	4.21	22 46 37.695	+3.176	−0.001	−13 53 19.09	+19.00	−0.03	
862	μ Pegasi	3.67	47 17.820	2.896	+0.011	+24 18 19.70	19.01	−0.04	
863	ε Cephei	3.68	47 40.779	2.135	−0.011	+65 54 20.22	18.94	−0.12	
864	λ Aquarii	3.84	49 41.603	3.130	+0.001	− 7 52 41.09	19.15	+0.04	
865	ρ Indi	6.14	50 47.604	4.180	−0.007	−70 22 24.31	19.21	+0.07	
866	δ Aquarii	3.51	22 51 40.804	+3.184	−0.003	−16 7 8.76	+19.14	−0.02	
867	α Piscis Australis	1.29	54 33.640	3.316	+0.026	−29 55 10.15	19.07	−0.16	Fomalhaut (北落師門)
868	ζ Gruis	4.18	57 35.063	3.543	−0.007	−53 3 17.46	19.30	0.00	
869	ο Andromedae	3.63	22 59 20.319	2.760	+0.002	+42 1 29.17	19.35	0.00	
870	β Pegasi	2.61	23 1 3.324	2.908	+0.014	+27 46 43.36	19.53	+0.14	Scheat
871	α Pegasi	2.57	23 1 58.132	+2.988	+0.004	+14 54 12.94	+19.37	−0.04	Markab
872	† ϑ Gruis	4.35	3 43.901	3.381	−0.004	−43 49 23.60	19.43	−0.02	
873	88 Aquarii	3.80	6 27.789	3.199	+0.004	−21 28 36.05	19.54	+0.04	
874	† π Cephei	4.56	6 6.520	1.907	+0.002	+75 5 4.81	19.47	−0.02	
875	Br 3077 Cassiopeiae	5.65	10 34.527	2.888	+0.252	+56 51 32.15	19.88	+0.30	
876	25 G. Tucanae	5.69	23 13 36.606	+3.610	+0.025	−62 18 24.43	+19.61	−0.02	
877	γ Tucanae	4.10	14 10.437	3.503	−0.004	−58 32 34.64	19.74	+0.09	
878	γ Piscium	3.85	14 15.671	3.110	+0.051	+ 2 58 33.75	19.67	+0.02	
879	γ Sculptoris	4.51	15 48.268	3.240	+0.002	−32 50 14.31	19.61	−0.06	
880	τ Pegasi	4.65	17 51.685	2.970	+0.002	+23 26 0.94	19.70	0.00	
881	υ Pegasi	4.57	23 22 34.824	+2.994	+0.014	+23 5 44.20	+19.82	+0.04	
882	4 Cassiopeiae	5.20	22 20.328	2.663	+0.001	+61 58 30.78	19.77	−0.01	
883	ο Gruis	5.54	23 29.046	3.357	+0.003	−53 1 54.48	19.92	+0.13	
884	κ Piscium	4.94	24 3.630	3.075	+0.006	+ 0 56 55.78	19.71	−0.09	
885	70 Pegasi	4.67	26 19.200	3.034	+0.004	+12 27 5.43	19.87	+0.04	
886	β Sculptoris	4.46	23 29 58.385	+3.217	+0.007	−38 7 41.63	+19.89	+0.02	
887	† 72 Pegasi *m*	5.21	31 10.170	2.976	+0.004	+31 0 57.94	19.87	−0.01	
888	248 G. Aquarii	6.51	32 38.728	3.095	0.000	− 7 46 28.13	19.93	+0.03	
889	11 G. Phoenicis	4.86	34 50.494	3.230	+0.006	−45 48 8.37	19.92	0.00	
890	λ Andromedae	4.00	34 48.894	2.936	+0.015	+46 9 16.80	19.51	−0.42	
891	ι Andromedae	4.28	23 35 22.946	+2.942	+0.002	+42 57 28.57	+19.93	0.00	
892	ι Piscium	4.28	37 4.084	3.086	+0.025	+ 5 19 21.53	19.51	−0.43	
893	γ Cephei	3.42	37 1.695	2.458	−0.021	+77 19 11.27	20.10	+0.16	
894	ω^2 Aquarii	4.62	39 49.139	3.111	+0.007	−14 51 16.93	19.90	−0.06	
895	41 H. Cephei	5.02	45 13.029	2.867	+0.001	+67 29 44.28	20.01	0.00	
896	δ Sculptoris	4.64	23 46 0.722	+3.125	+0.008	−28 26 24.04	+19.91	−0.10	
897	268 G. Aquarii	6.08	47 21.347	3.096	+0.009	−10 17 12.71	20.09	+0.08	
898	φ Pegasi	5.23	49 38.113	3.052	−0.001	+18 48 33.39	19.99	−0.03	
899	ρ Cassiopeiae	4.4-5.1 Var.	51 34.426	2.997	−0.001	+57 11 16.38	20.04	0.00	
900	27 Piscium	5.07	23 55 48.339	+3.072	−0.003	− 3 51 59.97	+19.98	−0.07	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
901	π Phoenicis	5.14	23 56 2.102	+3.109	+0.006	−53 3 30.98	+20.11	+0.07	
902	ω Piscium	4.03	56 25.009	3.081	+0.010	+ 6 33 11.85	19.93	−0.11	
903	ε Tucanae	4.71	57 1.262	3.121	+0.009	−65 53 19.10	20.02	−0.02	
904	ϑ Octantis	4.73	23 58 44.846	3.090	−0.015	−77 22 28.92	19.88	−0.16	
905	2 Ceti	4.62	0 0 52.313	+3.073	+0.002	−17 38 51.55	+20.04	0.00	

北周極星

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
Na	43 H. Cephei	4.52	1 0 41.900	+ 8.109	+0.077	+85 57 28.29	+19.34	−0.01	Polaris (北極星)
Nb	α Ursae Minoris	2.12	1 44 59.649	37.246	+0.173	+88 59 56.34	17.96	0.00	
Nc	Grb 750 Cephei	6.70	4 18 4.839	18.102	+0.018	+85 24 11.84	+ 8.64	+0.03	
Nd	51 H. Cephei	5.26	7 15 1.320	28.310	−0.048	+87 8 14.09	− 6.50	−0.03	
Ne	1 H. Draconis	4.58	9 29 16.085	8.579	0.007	+81 34 35.70	15.88	−0.02	
Nf	30 H. Camelopardalis	5.34	10 24 26.007	+ 7.336	−0.044	+82 50 41.90	−18.30	+0.02	
Ng	ε Ursae Minoris	4.40	16 51 37.809	− 6.162	+0.006	+82 7 57.05	5.89	0.00	
Nh	δ Ursae Minoris	4.44	17 50 14.994	19.458	+0.012	+86 36 40.15	− 0.81	+0.05	
Ni	λ Ursae Minoris	6.55	18 29 3.761	76.803	−0.112	+89 2 50.29	+ 2.48	0.00	
Nk	76 Draconis	5.69	20 46 45.846	− 4.320	+0.014	+82 19 32.32	+13.36	+0.03	

南周極星

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
Sa	4 G. Octantis	5.63	1 40 25.861	− 3.451	+0.022	−85 3 11.75	+18.18	+0.02	
Sb	ξ Mensae	5.85	5 5 10.216	6.853	−0.003	−82 32 55.02	+ 4.77	+0.01	
Sc	ζ Octantis	5.38	9 5 12.911	− 8.606	−0.092	−85 26 31.35	−14.45	+0.04	
Sd	ℓ Octantis	5.38	12 48 52.539	+ 6.243	+0.046	−84 49 11.32	19.56	+0.02	
Se	20 G. Octantis	6.52	14 58 31.195	28.848	−0.178	−87 55 27.30	−14.32	−0.07	
Sf	26 G. Octantis	6.13	16 39 35.991	+22.346	+0.010	−86 16 14.86	+ 6.87	0.00	
Sg	χ Octantis	5.22	18 22 14.537	35.484	−0.072	−87 39 21.74	1.84	−0.13	
Sh	σ Octantis	5.48	20 7 11.516	80.075	+0.133	−89 9 23.66	10.61	0.00	
Si	β Octantis	4.34	22 40 27.720	6.154	−0.023	−81 40 34.11	18.86	+0.01	
Sk	χ Octantis	5.56	23 20 28.226	+ 9.026	+0.027	−87 47 26.01	+19.76	+0.01	

1944 本初子午線正中時

星名	2 Ceti		α Andr		β Cass		ε Phoe	
等級 スペクトル型	4.62	A0	2.15	A0p	2.42	F5	3.94	K0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 0 0	° ′ −17 38	h m 0 5	° ′ +28 46	h m 0 6	° ′ +58 50	h m 0 6	° ′ −46 3
	s	″	s	″	s	″	s	″
1 0.7	51.156 119	64.33 34	28.445 148	55.96 94	10.043 329	38.75 73	33.039 198	43.52 29
10.7	51.037 110	64.67 17	28.297 142	55.02 120	9.714 318	38.02 125	32.841 183	43.23 74
20.7	50.927 97	64.84 8	28.155 132	53.82 141	9.396 295	36.77 173	32.658 162	42.49 118
30.7	50.830 80	64.76 31	28.023 112	52.41 157	9.101 258	35.04 212	32.496 135	41.31 159
2 9.6	50.750 58	64.45 56	27.911 89	50.84 165	8.843 210	32.92 244	32.361 104	39.72 196
19.6	50.692 32	63.89 81	27.822 58	49.19 167	8.633 151	30.48 265	32.257 67	37.76 229
29.6	50.660 2	63.08 105	27.764 22	47.52 161	8.482 82	27.83 275	32.190 24	35.47 256
3 10.5	50.658 33	62.03 129	27.742 20	45.91 147	8.400 7	25.08 274	32.166 20	32.91 279
20.5	50.691 70	60.74 151	27.762 66	44.44 126	8.393 73	22.34 261	32.186 71	30.12 295
30.5	50.761 111	59.23 173	27.828 112	43.18 97	8.466 153	19.73 239	32.257 122	27.17 305
4 9.5	50.872	57.50	27.940	42.21 65	8.619	17.34	32.379	24.12
19.4	51.023 151	55.60 190	28.098 158	41.56 28	8.849 230	15.29 205	32.552 173	21.02 310
29.4	51.213 190	53.54 206	28.302 204	41.28 10	9.152 303	13.63 166	32.777 225	17.94 308
5 9.4	51.441 228	51.37 217	28.546 244	41.38 50	9.519 367	12.44 119	33.049 272	14.94 300
19.4	51.701 260	49.15 222	28.825 279	41.88 89	9.938 419	11.75 69	33.364 315	12.11 283
	287	224	306		459	16	352	262
29.3	51.988	46.91	29.131	42.77	10.397	11.59	33.716	9.49
6 8.3	52.295 307	44.72 219	29.457 326	44.02 125	10.884 487	11.96 37	34.096 380	7.16 233
18.3	52.614 319	42.63 209	29.794 337	45.60 158	11.383 499	12.84 88	34.495 399	5.16 200
28.2	52.937 323	40.69 194	30.131 337	47.46 186	11.882 499	14.22 138	34.903 408	3.56 160
7 8.2	53.255 318	38.96 173	30.462 331	49.56 210	12.366 484	16.06 184	35.308 405	2.39 117
	306	147	314	229	459	224	393	71
18.2	53.561 284	37.49 120	30.776	51.85	12.825	18.30	35.701	1.68
28.2	53.845 258	36.29 87	31.067 291	54.25 240	13.247 422	20.90 260	36.071 370	1.45 23
8 7.1	54.103 224	35.42 56	31.329 262	56.73 248	13.622 375	23.79 289	36.408 337	1.70 25
17.1	54.327 186	34.86 22	31.555 226	59.22 249	13.944 322	26.90 311	36.703 295	2.41 71
27.1	54.513 146	34.64 10	31.743 188	61.67 245	14.207 263	30.18 328	36.950 247	3.57 116
			147	236	202	337	194	154
9 6.1	54.659 106	34.74	31.890	64.03	14.409	33.55	37.144	5.11
16.0	54.765 64	35.14 40	31.996 106	66.27 224	14.546 137	36.94 339	37.281 137	6.97 186
25.9	54.829 26	35.79 65	32.062 66	68.33 206	14.620 74	40.28 334	37.362 81	9.09 212
10 5.9	54.855 9	36.67 88	32.090 28	70.19 186	14.631 11	43.52 324	37.386 24	11.37 228
15.9	54.846 40	37.70 103	32.083 7	71.83 164	14.583 48	46.57 305	37.358 28	13.72 235
		115	39	138	105	280	76	233
25.9	54.806	38.85	32.044	73.21	14.478	49.37	37.282	16.05
11 4.9	54.740 66	40.04 119	31.977 67	74.32 111	14.322 156	51.87 250	37.166 116	18.25 220
14.9	54.653 87	41.23 119	31.887 90	75.14 82	14.120 202	54.00 213	37.016 150	20.23 198
24.8	54.551 102	42.36 113	31.777 110	75.65 51	13.876 244	55.70 170	36.841 175	21.91 168
12 4.8	54.438 113	43.39 103	31.651 126	75.84 19	13.599 277	56.92 122	36.648 193	23.23 132
	119	87	136	13	303	70	203	91
14.8	54.319	44.26	31.515	75.71	13.296	57.62	36.445	24.14
24.8	54.198 121	44.97 71	31.371 144	75.27 44	12.975 321	57.79 17	36.240 205	24.60 46
34.7	54.079 119	45.47 50	31.224 147	74.53 74	12.647 328	57.41 38	36.040 200	24.59 1
平位	s 52.313	″ 51.55	s 29.236	″ 52.84	s 10.512	″ 27.59	s 34.512	″ 22.49
sec δ, tan δ	+ 1.049	− 0.318	+ 1.141	+ 0.549	+ 1.933	+ 1.654	+ 1.441	− 1.038
2回正中	9月21日		9月22日		9月22日		9月22日	
a b	+ 0.1532	− 0.0212	+ 0.1542	+ 0.0366	+ 0.1563	+ 0.1102	+ 0.1513	− 0.0691
a′ b′	+ 1.0000	− 0.0038	+ 0.9997	− 0.0239	+ 0.9996	− 0.0269	+ 0.9996	− 0.0287
FK3番號	905		1		2		3	

星名 / 等級 / スペクトル型	22 Andr 5.08 F0		x^2 Scul 5.56 K0		ϑ Scul 5.19 F5		γ Pegs 2.87 B2	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 7	° ′ +45 45	h m 0 8	° ′ −28 6	h m 0 8	° ′ −35 26	h m 0 10	° ′ +14 52
	s	″	s	″	s	″	s	″
1 0.7	23.390 217	46.73 86	42.745 138	57.76 18	52.067 156	65.28 1	20.049 123	18.81 86
10.7	23.173 209	45.87 127	42.607 128	57.94 14	51.911 145	65.29 38	19.926 119	17.95 97
20.7	22.964 195	44.60 165	42.479 115	57.80 46	51.766 130	64.91 76	19.807 110	16.98 105
30.7	22.769 170	42.95 195	42.364 96	57.34 78	51.636 108	64.15 112	19.697 94	15.93 108
2 9.6	22.599 137	41.00 217	42.268 74	56.56 109	51.528 83	63.03 145	19.603 75	14.85 106
19.6	22.462 96	38.83 230	42.194 46	55.47 138	51.445 53	61.58 177	19.528 48	13.79 98
29.6	22.366 47	36.53 233	42.148 13	54.09 164	51.392 18	59.81 205	19.480 17	12.81 87
3 10.5	22.319 6	34.20 227	42.135 23	52.45 189	51.374 22	57.76 228	19.463 19	11.94 68
20.5	22.325 65	31.93 210	42.158 63	50.56 211	51.396 64	55.48 248	19.482 60	11.26 45
30.5	22.390 125	29.83 184	42.221 105	48.45 228	51.460 109	53.00 263	19.542 101	10.81 18
4 9.5	22.515 182	27.99 150	42.326 149	46.17 242	51.569 156	50.37 274	19.643 143	10.63 12
19.4	22.697 239	26.49 112	42.475 191	43.75 251	51.725 200	47.63 278	19.786 185	10.75 44
29.4	22.936 287	25.37 67	42.666 231	41.24 255	51.925 243	44.85 277	19.971 223	11.19 75
5 9.4	23.223 329	24.70 20	42.897 266	38.69 253	52.168 280	42.08 269	20.194 256	11.94 106
19.4	23.552 361	24.50 28	43.163 297	36.16 246	52.448 313	39.39 256	20.450 283	13.00 135
29.3	23.913 385	24.78 74	43.460 320	33.70 232	52.761 338	36.83 236	20.733 303	14.35 160
6 8.3	24.298 395	25.52 120	43.780 334	31.38 212	53.099 354	34.47 210	21.036 313	15.95 180
18.3	24.693 397	26.72 162	44.114 341	29.26 188	53.453 361	32.37 180	21.349 318	17.75 197
28.2	25.090 387	28.34 199	44.455 338	27.38 158	53.814 359	30.57 144	21.667 311	19.72 208
7 8.2	25.477 367	30.33 231	44.793 327	25.80 124	54.173 348	29.13 104	21.978 299	21.80 214
18.2	25.844 338	32.64 257	45.120 307	24.56 88	54.521 327	28.09 63	22.277 278	23.94 214
28.2	26.182 303	35.21 278	45.427 279	23.68 49	54.848 298	27.46 19	22.555 251	26.08 209
8 7.1	26.485 262	37.99 292	45.706 246	23.19 10	55.146 262	27.27 23	22.806 220	28.17 199
17.1	26.747 216	40.91 300	45.952 205	23.09 29	55.408 220	27.50 64	23.026 184	30.16 187
27.1	26.963 168	43.91 302	46.157 164	23.38 64	55.628 174	28.14 101	23.210 147	32.03 169
9 6.1	27.131 118	46.93 298	46.321 119	24.02 97	55.802 126	29.15 135	23.357 108	33.72 150
16.0	27.249 70	49.91 287	46.440 75	24.99 123	55.928 78	30.50 162	23.465 72	35.22 130
25.9	27.319 24	52.78 272	46.515 33	26.22 145	56.006 32	32.12 181	23.537 35	36.52 107
10 5.9	27.343 21	55.50 251	46.548 7	27.67 159	56.038 12	33.93 192	23.572 3	37.59 84
15.9	27.322 62	58.01 226	46.541 42	29.26 166	56.026 52	35.85 196	23.575 26	38.43 62
25.9	27.260 97	60.27 196	46.499 71	30.92 164	55.974 84	37.81 190	23.549 51	39.05 40
11 4.9	27.163 130	62.23 160	46.428 96	32.56 156	55.890 112	39.71 176	23.498 73	39.45 18
14.9	27.033 159	63.83 121	46.332 116	34.12 142	55.778 133	41.47 156	23.425 90	39.63 4
24.8	26.874 180	65.04 80	46.216 128	35.54 122	55.645 147	43.03 129	23.335 103	39.59 23
12 4.8	26.694 198	65.84 35	46.088 136	36.76 96	55.498 156	44.32 96	23.232 113	39.36 42
14.8	26.496 210	66.19 11	45.952 139	37.72 68	55.342 159	45.28 61	23.119 119	38.94 60
24.8	26.286 215	66.08 56	45.813 137	38.40 37	55.183 156	45.89 23	23.000 121	38.34 75
34.7	26.071	65.52	45.676	38.77	55.027	46.12	22.879	37.59
平位	s 24.023	″ 38.64	s 43.949	″ 41.46	s 53.354	″ 46.86	s 20.910	″ 20.48
sec δ, tan δ	+ 1.433	+ 1.027	+ 1.134	− 0.534	+ 1.228	− 0.712	+ 1.035	+ 0.266
2 回正中	9月22日		9月23日		9月23日		9月23日	
a b	+ 0.1555	+ 0.0684	+ 0.1520	− 0.0356	+ 0.1515	− 0.0474	+ 0.1541	+ 0.0177
a′ b′	+ 0.9995	− 0.0323	+ 0.9993	− 0.0381	+ 0.9993	− 0.0388	+ 0.9990	− 0.0451
FK3番號	4		5		6		7	

星名 / 等級 / スペクトル型	† Br 6 Ceph m 6.23 Ø B9		ι Ceti 3.75 K0		ζ Tucn 4.34 F8		β Hydi 2.90 G0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 12	° ′ +76 38	h m 0 16	° ′ −9 7	h m 0 17	° ′ −65 11	h m 0 22	° ′ −77 33
	s	″	s	″	s	″	s	″
1 0.7	61.42 87	37.10 32	33.457 116	73.30 59	8.09 39	98.19 74	47.62 87	96.21 97
10.7	60.55 85	36.78 95	33.341 112	73.89 44	7.70 37	97.45 131	46.75 81	95.24 157
20.7	59.70 79	35.83 152	33.229 102	74.33 28	7.33 33	96.14 183	45.94 74	93.67 211
30.7	58.91 71	34.31 204	33.127 89	74.61 9	7.00 28	94.31 229	45.20 63	91.56 260
2 9.6	58.20 59	32.27 247	33.038 70	74.70 10	6.72 22	92.02 271	44.57 52	88.96 299
19.6	57.61 45	29.80 279	32.968 47	74.60 31	6.50 16	89.31 305	44.05 39	85.97 333
29.6	57.16 29	27.01 301	32.921 17	74.29 54	6.34 9	86.26 331	43.66 25	82.64 358
3 10.5	56.87 11	24.00 310	32.904 16	73.75 78	6.25 2	82.95 351	43.41 10	79.06 374
20.5	56.76 6	20.90 310	32.920 53	72.97 101	6.23 7	79.44 363	43.31 5	75.32 381
30.5	56.82 25	17.85 305 290	32.973 93	71.96 126	6.30 14	75.81 366	43.36 21	71.51 382
4 9.5	57.07 41	14.95 263	33.066 133	70.70 147	6.44 23	72.15 362	43.57 36	67.69 372
19.4	57.48 57	12.32 226	33.199 174	69.23 168	6.67 31	68.53 351	43.93 52	63.97 357
29.4	58.05 71	10.06 183	33.373 211	67.55 185	6.98 38	65.02 332	44.45 65	60.40 333
5 9.4	58.76 82	8.23 131	33.584 244	65.70 199	7.36 45	61.70 305	45.10 77	57.07 300
19.4	59.58 90	6.92 78	33.828 273	63.71 207	7.81 51	58.65 272	45.87 89	54.07 263
29.3	60.48 96	6.14 21	34.101 294	61.64 211	8.32 56	55.93 233	46.76 99	51.44 219
6 8.3	61.44 99	5.93 35	34.395 308	59.53 210	8.88 59	53.60 187	47.75 104	49.25 169
18.3	62.43 99	6.28 91	34.703 314	57.43 203	9.47 61	51.73 138	48.79 110	47.56 117
28.2	63.42 96	7.19 145	35.017 311	55.40 191	10.08 62	50.35 85	49.89 110	46.39 60
7 8.2	64.38 91	8.64 193	35.328 301	53.49 174	10.70 60	49.50 30	50.99 109	45.79 2
18.2	65.29 84	10.57 239	35.629 283	51.75 152	11.30 57	49.20 25	52.08 104	45.77 54
28.2	66.13 75	12.96 278	35.912 257	50.23 127	11.87 53	49.45 80	53.12 97	46.31 111
8 7.1	66.88 64	15.74 310	36.169 228	48.96 99	12.40 46	50.25 131	54.09 86	47.42 163
17.1	67.52 52	18.84 338	36.397 193	47.97 71	12.86 40	51.56 178	54.95 73	49.05 209
27.1	68.04 40	22.22 357	36.590 155	47.26 40	13.26 31	53.34 219	55.68 58	51.14 248
9 6.1	68.44 26	25.79 369	36.745 117	46.86 12	13.57 22	55.53 251	56.26 41	53.62 280
16.0	68.70 12	29.48 374	36.862 79	46.74 14	13.79 13	58.04 274	56.67 22	56.42 299
26.0	68.82 1	33.22 370	36.941 43	46.88 38	13.92 3	60.78 286	56.89 4	59.41 309
10 5.9	68.81 15	36.92 360	36.984 9	47.26 58	13.95 6	63.64 287	56.93 15	62.50 306
15.9	68.66 29	40.52 341	36.993 21	47.84 74	13.89 15	66.51 276	56.78 32	65.56 290
25.9	68.37 41	43.93 313	36.972 47	48.58 84	13.74 22	69.27 254	56.46 48	68.46 264
11 4.9	67.96 53	47.06 313	36.925 69	49.42 91	13.52 29	71.81 221	55.98 63	71.10 225
14.9	67.43 64	49.85 279	36.856 86	50.33 93	13.23 34	74.02 180	55.35 73	73.35 179
24.8	66.79 73	52.21 236	36.770 98	51.26 90	12.89 37	75.82 131	54.62 82	75.14 124
12 4.8	66.06 80	54.07 186 130	36.672 108	52.16 85	12.52 40	77.13 76	53.80 87	76.38 64
14.8	65.26 85	55.37 71	36.564 113	53.01 77	12.12 41	77.89 19	52.93 90	77.02 2
24.8	64.41 88	56.08 9	36.451 115	53.78 65	11.71 39	78.08 40	52.03 88	77.04 61
34.7	63.53	56.17	36.336	54.43	11.32	77.68	51.15	76.43
平位	s 61.124	″ 23.30	s 34.445	″ 63.00	s 10.002	″ 73.34	s 50.492	″ 70.06
sec δ, tan δ	+ 4.327	+ 4.211	+ 1.013	− 0.161	+ 2.384	− 2.165	+ 4.646	− 4.537
2 回正中	9月24日		9月25日		9月25日		9月26日	
a b	+ 0.1693	+ 0.2802	+ 0.1526	− 0.0107	+ 0.1425	− 0.1439	+ 0.1232	− 0.3009
a′ b′	+ 0.9984	− 0.0563	+ 0.9974	− 0.0723	+ 0.9972	− 0.0748	+ 0.9950	− 0.0995
FK3番號	8		9		10		11	

星名 / 等級 / スペクトル型		α Phoe 2.44 K0			12 Ceti 6.04 K5			49 G. Ceti 5.23 A3			λ Phoe 4.88 A2		
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 0 23		° ′ −42 36	h m 0 27		° ′ − 4 15	h m 0 27		° ′ −24 5	h m 0 28		° ′ −49 6
		s		″	s		″	s		″	s		″
1	0.7	29.993		56.17	9.904		68.13	33.719		65.54	41.927		68.92
	10.7	29.804	189	56.15 2	9.787	117	68.79 66	33.584	135	65.92 38	41.700	227	68.78 14
	20.7	29.625	179	55.66 49	9.673	114	69.36 57	33.453	131	66.00 8	41.484	216	68.14 64
	30.7	29.461	164	54.75 91	9.565	108	69.81 45	33.332	121	65.77 23	41.285	199	67.02 112
2	9.6	29.319	142	53.42 133	9.470	95	70.11 30	33.225	107	65.24 53	41.111	174	65.46 156
			115	171		79	14		88	83		144	197
	19.6	29.204	83	51.71	9.391	55	70.25 5	33.137	63	64.41 112	40.967	108	63.49
	29.6	29.121	45	49.66 205	9.336	29	70.20 26	33.074	33	63.29 139	40.859	64	61.16 233
3	10.6	29.076	3	47.31 235	9.307	6	69.94 48	33.041	1	61.90 165	40.795	18	58.52 264
	20.5	29.073	45	44.71 260	9.313	42	69.46 72	33.042	41	60.25 189	40.777	35	55.64 288
	30.5	29.118	94	41.91 280 295	9.355	82	68.74 96	33.083	82	58.36 209	40.812	89	52.55 309 320
4	9.5	29.212	144	38.96	9.437	123	67.78 121	33.165	126	56.27 226	40.901	145	49.35
	19.4	29.356	194	35.93 303	9.560	164	66.57 143	33.291	168	54.01 239	41.046	201	46.08 327
	29.4	29.550	242	32.88 305	9.724	202	65.14 164	33.459	209	51.62 247	41.247	254	42.82 326
5	9.4	29.792	286	29.88 300	9.926	236	63.50 181	33.668	246	49.15 250	41.501	302	39.64 318
	19.4	30.078	323	26.98 290 272	10.162	266	61.69 194	33.914	278	46.65 247	41.803	346	36.60 304 281
	29.3	30.401		24.26	10.428	289	59.75	34.192		44.18	42.149		33.79
6	8.3	30.755	354	21.79 247	10.717	303	57.71 204	34.496	304	41.81 237	42.528	379	31.26 253
	18.3	31.129	374	19.62 217	11.020	312	55.65 206	34.817	321	39.57 224	42.933	405	29.07 219
	28.3	31.516	387	17.81 181	11.332	309	53.61 204	35.147	330	37.55 202	43.353	420	27.28 179
7	8.2	31.903	387 380	16.40 141 97	11.641	301	51.63 198 184	35.477	330 322	35.78 177 146	43.777	424 416	25.95 133 86
	18.2	32.283	360	15.43	11.942	284	49.79 168	35.799	306	34.32 112	44.193	397	25.09
	28.2	32.643	333	14.93 50	12.226	260	48.11 147	36.105	282	33.20 76	44.590	368	24.73 36
8	7.1	32.976	296	14.91 2	12.486	232	46.64 123	36.387	252	32.44 38	44.958	330	24.89 16
	17.1	33.272	253	15.36 45	12.718	199	45.41 96	36.639	216	32.06 1	45.288	283	25.54 65
	27.1	33.525	204	16.26 90 131	12.917	163	44.45 69	36.855	176	32.07 37	45.571	230	26.66 112 155
	6.1	33.729		17.57	13.080		43.76	37.031		32.44	45.801		28.21
9	16.0	33.882	153	19.23 166	13.206	126	43.35 41	37.167	136	33.14 70	45.974	173	30.13 192
	26.0	33.983	101	21.18 195	13.295	89	43.20 15	37.261	94	34.14 100	46.087	113	32.33 220
10	5.9	34.030	47	23.34 216	13.349	54	43.29 9	37.314	53	35.38 124	46.142	55	34.74 241
	15.9	34.029	1 47	25.61 227 229	13.369	20 10	43.59 30 48	37.329	15 19	36.80 142 152	46.139	3 56	37.25 251 251
	25.9	33.982		27.90	13.359		44.07	37.310		38.32	46.083		39.76
11	4.9	33.894	88	30.11 221	13.323	36	44.68 61	37.260	50	39.88 156	45.981	102	42.17 241
	14.9	33.773	121	32.16 205	13.265	58	45.40 72	37.185	75	41.41 153	45.838	143	44.36 219
	24.8	33.625	148	33.96 180	13.189	76	46.17 77	37.088	97	42.84 143	45.662	176	46.28 192
12	4.8	33.457	168 181	35.43 147 110	13.098	91 102	46.97 80 80	36.976	112 123	44.10 126 106	45.462	200 216	47.81 153 112
	14.8	33.276	188	36.53 68	12.996	110	47.77	36.853		45.16 82	45.246	225	48.93
	24.8	33.088	188	37.21 23	12.886	113	48.52 75	36.723	130	45.98 54	45.021	226	49.57 64
	34.7	32.900		37.44	12.773		49.22 70	36.590	133	46.52	44.795		49.72 15
平位		s 31.243		″ 35.45	s 10.793		″ 59.27	s 34.746		″ 49.96	s 43.218		″ 46.55
sec δ, tan δ		+ 1.359		− 0.920	+ 1.003		− 0.075	+ 1.095		− 0.447	+ 1.528		− 1.155
2 回正中		9月 26 日			9月 27 日			9月 28 日			9月 28 日		
a	b	+ 0.1470		− 0.0610	+ 0.1527		− 0.0049	+ 0.1497		− 0.0296	+ 0.1437		− 0.0764
a′	b′	+ 0.9947		− 0.1025	+ 0.9930		− 0.1183	+ 0.9928		− 0.1200	+ 0.9922		− 0.1250
FK3番號		12			13			14			15		

星名 / 等級 / スペクトル型		χ Cass 4.24 B0			ζ Cass 3.72 B3			π Andr 4.44 B3			ε Andr 4.52 G5		
世界時		赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯	赤 經		赤 緯
月	日	h m 0 29		° ′ +62 37	h m 0 33		° ′ +53 35	h m 0 33		° ′ +33 24	h m 0 35		° ′ +29 0
		s		″	s		″	s		″	s		″
1	0.8	47.68		34.41	49.920		29.96	52.372		44.81	34.776		31.48
	10.7	47.30	38	34.04 37	49.645	275	29.50 46	52.208	164	44.11 70	34.624	152	30.76 72
	20.7	46.92	38	33.13 91	49.371	274	28.54 96	52.044	164	43.10 101	34.471	153	29.77 99
	30.7	46.55	37	31.70 143	49.107	264	27.14 140	51.886	158	41.83 127	34.324	147	28.56 121
2	9.6	46.22	33 29	29.82 188 227	48.867	240 207	25.35 179 212	51.741	145 123	40.34 149 165	34.189	135 115	27.18 138 150
	19.6	45.93	22	27.55	48.660	161	23.23	51.618		38.69	34.074	88	25.68
	29.6	45.71	14	25.01 254	48.499	107	20.89 234	51.525	93	36.97 172	33.986	54	24.12 156
3	10.6	45.57	7	22.29 272	48.392	43	18.42 247	51.467	58	35.23 174	33.932	14	22.59 153
	20.5	45.50	3	19.51 278	48.349	25	15.92 250	51.452	15	33.58 165	33.918	31	21.16 143
	30.5	45.53	11	16.79 272 257	48.374	96	13.50 242 223	51.485	33 83	32.09 149 127	33.949	79	19.89 127 103
4	9.5	45.64		14.22	48.470		11.27	51.568		30.82	34.028		18.84
	19.5	45.85	21	11.93 229	48.637	167	9.31 196	51.701	133	29.85 97	34.155	127	18.12 74
	29.4	46.14	29	9.99 194	48.872	235	7.71 160	51.885	184	29.22 63	34.330	175	17.71 41
5	9.4	46.51	37	8.46 153	49.168	296	6.51 120	52.114	229	28.96 26	34.550	220	17.66 5
	19.4	46.94	43 49	7.42 104 54	49.517	349 393	5.78 73 26	52.384	270 303	29.10 14 53	34.808	258 291	17.98 32 69
	29.3	47.43		6.88	49.910		5.52	52.687		29.63	35.099		18.67
6	8.3	47.95	52	6.88 0	50.335	425	5.76 24	53.015	328	30.54 91	35.415	316	19.72 105
	18.3	48.50	55	7.39 51	50.779	444	6.48 72	53.359	344	31.82 128	35.747	332	21.09 137
	28.3	49.05	55	8.42 103	51.231	452	7.67 119	53.710	351	33.43 161	36.086	339	22.76 167
7	8.2	49.59	54 53	9.93 151 195	51.678	447 431	9.29 162 202	54.058	348 337	35.32 189 213	36.423	337 327	24.67 191 211
	18.2	50.12		11.88	52.109		11.31	54.395		37.45	36.750		26.78
	28.2	50.61	49	14.23 235	52.515	406	13.66 235	54.713	318	39.76 231	37.058	308	29.04 226
8	7.2	51.05	44	16.92 269	52.885	370	16.30 264	55.004	291	42.19 243	37.341	283	31.38 234
	17.1	51.45	40	19.89 297	53.214	329	19.17 287	55.262	258	44.70 251	37.593	252	33.76 238
	27.1	51.78	33 27	23.08 319 333	53.494	280 229	22.20 303 313	55.484	222 184	47.22 252 249	37.810	217 180	36.12 236 230
	6.1	52.05		26.41	53.723		25.33	55.668		49.71	37.990		38.42
9	16.0	52.25	20	29.83 342	53.898	175	28.49 316	55.810	142	52.12 241	38.130	140	40.61 219
	26.0	52.38	13	33.26 343	54.018	120	31.64 315	55.912	102	54.40 228	38.232	102	42.67 206
10	5.9	52.44	6	36.63 337	54.085	67	34.70 306	55.975	63	56.53 213	38.295	63	44.55 188
	15.9	52.43	1 7	39.88 325 306	54.099	14 36	37.61 291 270	56.000	25 10	58.46 193 170	38.323	28 5	46.23 168 145
	25.9	52.36		42.94	54.063		40.31	55.990		60.16	38.318		47.68
11	4.9	52.22	14	45.73 279	53.980	83	42.75 244	55.949	41	61.60 144	38.282	36	48.89 121
	14.9	52.03	19	48.18 245	53.853	127	44.87 212	55.879	70	62.77 117	38.220	62	49.83 94
	24.9	51.78	25	50.24 206	53.686	167	46.61 174	55.784	95	63.63 86	38.133	87	50.49 66
12	4.8	51.49	29 34	51.85 161 110	53.485	201 230	47.93 132 86	55.667	117 135	64.17 54 20	38.026	107 124	50.86 37 7
	14.8	51.15		52.95	53.255		48.79	55.532		64.37	37.902		50.93
	24.8	50.79	36	53.52 57	53.001	254	49.15 36	55.383	149	64.24 13	37.765	137	50.70 23
	34.7	50.41	38	53.52 0	52.734	267	49.02 13	55.224	159	63.76 48	37.618	147	50.17 53
平位		s 47.854		″ 22.98	s 50.258		″ 20.50	s 52.959		″ 40.85	s 35.390		″ 28.95
sec δ, tan δ		+ 2.175		+ 1.931	+ 1.685		+ 1.356	+ 1.198		+ 0.660	+ 1.143		+ 0.554
2 回正中		9月 28 日			9月 29 日			9月 29 日			9月 30 日		
a	b	+ 0.1700		+ 0.1277	+ 0.1666		+ 0.0894	+ 0.1598		+ 0.0435	+ 0.1590		+ 0.0365
a′	b′	+ 0.9916		− 0.1297	+ 0.9891		− 0.1471	+ 0.9891		− 0.1473	+ 0.9880		− 0.1547
FK3番號		16			17			18			19		

星名	δ Andr		α Cass		β Ceti		η Phoe	
等級	3.49		2.1—2.6		2.24		4.53	
スペクトル型	K2		K0		K0		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 36	° ′ +30 33	h m 0 37	° ′ +56 13	h m 0 40	° ′ −18 17	h m 0 40	° ′ −57 45
1 0.8	s 19.003 155	″ 20.33 70	s 18.607 300	″ 60.12	s 45.857 129	″ 51.19	s 49.374 308	″ 95.72 21
10.7	18.848 157	19.63 98	18.307 301	59.73 88	45.728 127	51.72 53	49.066 297	95.51 76
20.7	18.691 151	18.65 122	18.006 289	58.85 136	45.601 122	52.01 29	48.769 277	94.75 129
30.7	18.540 138	17.43 141	17.717 266	57.49 178	45.479 110	52.03 2	48.492 248	93.46 178
2 9.6	18.402 118	16.02 155	17.451 230	55.71 212	45.369 94	51.79 24	48.244 211	91.68 221
19.6	18.284 90	14.47 160	17.221 182	53.59 238	45.275 71	51.27 78	48.033 166	89.47 261
29.6	18.194 56	12.87 160	17.039 123	51.21 252	45.204 44	50.49 105	47.867 115	86.86 292
3 10.6	18.138 15	11.27 151	16.916 55	48.69 258	45.160 10	49.44 131	47.752 58	83.94 318
20.5	18.123 30	9.76 134	16.861 17	46.11 251	45.150 27	48.13 156	47.694 5	80.76 337
30.5	18.153 79	8.42 111	16.878 93	43.60 234	45.177 67	46.57 177	47.699 71	77.39 348
4 9.5	18.232 129	7.31 83	16.971 170	41.26 208	45.244 111	44.80 198	47.770 138	73.91 353
19.5	18.361 177	6.48 49	17.141 241	39.18 174	45.355 153	42.82 215	47.908 206	70.38 349
29.4	18.538 222	5.99 13	17.382 307	37.44 133	45.508 194	40.67 227	48.114 271	66.89 339
5 9.4	18.760 262	5.86 25	17.689 365	36.11 87	45.702 231	38.40 234	48.385 330	63.50 319
19.4	19.022 295	6.11 63	18.054 411	35.24 39	45.933 263	36.06 238	48.715 384	60.31 295
29.3	19.317 320	6.74 100	18.465 446	34.85 11	46.196 291	33.68 234	49.099 429	57.36 261
6 8.3	19.637 336	7.74 133	18.911 467	34.96 61	46.487 308	31.34 225	49.528 463	54.75 223
18.3	19.973 344	9.07 164	19.378 476	35.57 109	46.795 320	29.09 210	49.991 485	52.52 179
28.3	20.317 342	10.71 189	19.854 472	36.66 154	47.115 321	26.99 190	50.476 494	50.73 129
7 8.2	20.659 331	12.60 211	20.326 456	38.20 195	47.436 316	25.09 166	50.970 491	49.44 77
18.2	20.990	14.71 227	20.782 430	40.15 231	47.752 301	23.43 135	51.461 473	48.67 23
28.2	21.302 312	16.98 237	21.212 393	42.46 261	48.053 280	22.08 103	51.934 444	48.44 32
8 7.2	21.589 287	19.35 242	21.605 350	45.07 287	48.333 253	21.05 68	52.378 401	48.76 85
17.1	21.845 256	21.77 242	21.955 300	47.94 305	48.586 219	20.37 33	52.779 348	49.61 135
27.1	22.066 221 183	24.19 236	22.255 246	50.99 317	48.805 183	20.04 3	53.127 288	50.96 180
6.1	22.249 143	26.55 227	22.501 189	54.16 323	48.988 145	20.07 36	53.415 219	52.76 219
16.0	22.392 104	28.82 214	22.690 132	57.39 322	49.133 106	20.43 66	53.634 148	54.95 249
26.0	22.496 65	30.96 197	22.822 75	60.61 316	49.239 68	21.09 91	53.782 74	57.44 270
10 5.9	22.561 29	32.93 177	22.897 18	63.77 302	49.307 31	22.00 112	53.856 3	60.14 279
15.9	22.590 4	34.70 154	22.915 36	66.79 283	49.338 2	23.12 127	53.859 65	62.93 278
25.9	22.586 36	36.24 130	22.879 87	69.62 256	49.336 31	24.39 134	53.794 128	65.71 266
11 4.9	22.550 62	37.54 103	22.792 134	72.18 226	49.305 57	25.73 135	53.666 181	68.37 241
14.9	22.488 88	38.57 74	22.658 179	74.44 187	49.248 79	27.08 132	53.485 227	70.78 209
24.9	22.400 109	39.31 44	22.479 217	76.31 145	49.169 96	28.40 121	53.258 262	72.87 167
12 4.8	22.291 126	39.75 13	22.262 249	77.76 98	49.073 109	29.61 106	52.996 287	74.54 119
14.8	22.165 140	39.88 19	22.013 275	78.74 48	48.964 119	30.67 88	52.709 302	75.73 67
24.8	22.025 150	39.69 50	21.738 293	79.22 4	48.845 124	31.55 66	52.407 307	76.40 11
34.7	21.875	39.19	21.445	79.18	48.721	32.21	52.100	76.51
平位	s 19.600	″ 17.33	s 18.868	″ 50.14	s 46.749	″ 37.18	s 50.663	″ 71.39
sec δ, tan δ	+ 1.161	+ 0.590	+ 1.799	+ 1.496	+ 1.053	− 0.331	+ 1.875	− 1.586
2回正中	9月30日		9月30日		10月1日		10月1日	
a b	+ 0.1595	+ 0.0389	+ 0.1695	+ 0.0984	+ 0.1494	− 0.0217	+ 0.1346	− 0.1041
a′ b′	+ 0.9875	− 0.1578	+ 0.9868	− 0.1621	+ 0.9842	− 0.1770	+ 0.9842	− 0.1773
FK3番號	20		21		22		23	

星名	λ² Scul		o Cass		21 Cass		ζ Andr	
等級	5.97		4.70		5.59		4.30	
スペクトル型	K0		B2		A2		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 41	° ′ −38 43	h m 0 41	° ′ +47 58	h m 0 41	° ′ +74 40	h m 0 44	° ′ +23 57
1 0.8	s 28.761 178	″ 67.59	s 35.215 231	″ 49.66 46	s 55.24 75	″ 69.54 5	s 21.278 141	″ 47.13 69
10.7	28.583 174	67.79 20	34.984 233	49.20 91	54.49 74	69.59 58	21.137 143	46.44 90
20.7	28.409 164	67.56 23	34.751 227	48.29 131	53.75 72	69.01 116	20.994 139	45.54 107
30.7	28.245 148	66.91 65	34.524 208	46.98 166	53.03 66	67.85 171	20.855 130	44.47 120
2 9.6	28.097 125	65.85 106 145	34.316 182	45.32 195	52.37 58	66.14 217	20.725 112	43.27 128
19.6	27.972	64.40 181	34.134	43.37	51.79	63.97	20.613	41.99
29.6	27.875 97	62.59 212	33.990 144	41.22 215	51.32 47	61.41 256	20.525 88	40.69 130
3 10.6	27.811 64	60.47 239	33.892 98	38.96 226	50.98 34	58.59 282	20.468 57	39.43 126
20.5	27.787 24	58.08 263	33.850 42	36.69 227	50.79 19	55.61 298	20.448 20	38.28 115
30.5	27.807 20 67	55.45 263 281	33.867 17 80	34.51 218 200	50.75 4 12	52.61 300 292	20.471 23 68	37.31 97 75
4 9.5	27.874	52.64	33.947	32.51	50.87	49.69	20.539	36.56
19.5	27.990 116	49.71 293	34.091 144	30.78 173	51.15 28	46.98 271	20.654 115	36.10 46
29.4	28.156 166	46.71 300	34.296 205	29.38 140	51.58 43	44.58 240	20.816 162	35.94 16
5 9.4	28.369 213	43.71 300	34.558 262	28.38 100	52.13 55	42.56 202	21.021 205	36.12 18
19.4	28.626 257 295	40.78 293 281	34.870 312 352	27.82 56 12	52.80 67 76	41.00 156 106	21.264 243 278	36.64 52 85
29.3	28.921	37.97	35.222	27.70 36	53.56	39.94	21.542	37.49
6 8.3	29.248 327	35.37 260	35.606 384	28.06 80	54.39 83	39.43 51	21.845 303	38.66 117
18.3	29.599 351	33.02 235	36.009 403	28.86 124	55.26 87	39.46 3	22.164 319	40.12 146
28.3	29.964 365	31.00 202	36.422 413	30.10 163	56.15 89	40.04 58	22.493 329	41.82 170
7 8.2	30.334 370 366	29.34 166 123	36.833 411 398	31.73 163 199	57.03 88 85	41.15 111 162	22.822 329 320	43.73 191 206
18.2	30.700	28.11 79	37.231	33.72	57.88	42.77	23.142	45.79
28.2	31.050 350	27.32 33	37.607 376	36.02 230	58.69 81	44.85 208	23.446 304	47.95 216
8 7.2	31.378 328	26.99 14	37.953 346	38.56 254	59.43 74	47.35 250	23.727 281	50.16 221
17.1	31.674 296	27.13 60	38.263 310	41.30 274	60.10 67	50.21 286	23.980 253	52.37 221
27.1	31.931 257 214	27.73 102	38.530 267 222	44.17 287 294	60.66 56 47	53.36 315 339	24.199 219 184	54.53 216 207
9 6.1	32.145 167	28.75 141	38.752 174	47.11 296	61.13 35	56.75 356	24.383 147	56.60 194
16.0	32.312 119	30.16 173	38.926 125	50.07 293	61.48 23	60.31 365	24.530 110	58.54 178
26.0	32.431 70	31.89 197	39.051 78	53.00 282	61.71 12	63.96 367	24.640 74	60.32 160
10 5.9	32.501 24	33.86 197	39.129 31	55.82 282	61.83 0	67.63 367	24.714 39	61.92 139
15.9	32.525 20	35.99 213 219	39.160 13	58.49 267 246	61.83 13	71.25 362 347	24.753 7	63.31 118
25.9	32.505	38.18 218	39.147	60.95 222	61.70 24	74.72 326	24.760 23	64.49 95
11 4.9	32.446 59	40.36 206	39.092 55	63.17 191	61.46 35	77.98 296	24.737 49	65.44 71
14.9	32.354 92	42.42 186	38.999 93	65.08 156	61.11 46	80.94 259	24.688 72	66.15 46
24.9	32.233 121	44.28 158	38.870 129	66.64 117	60.65 55	83.53 213	24.616 92	66.61 22
12 4.8	32.090 143 159	45.86 124	38.710 160 187	67.81 75	60.10 63	85.66 162	24.524 110	66.83 4
14.8	31.931	47.10 87	38.523 208	68.56 30	59.47 69	87.28 105	24.414 124	66.79 29
24.8	31.761 170	47.97 45	38.315 223	68.86 16	58.78 74	88.33 45	24.290 134	66.50 52
34.7	31.587 174	48.42	38.092	68.70	58.04	88.78	24.156	65.98
平位	s 29.799	″ 47.42	s 35.587	″ 41.74	s 54.633	″ 56.58	s 21.881	″ 46.47
Sec δ, tan δ	+ 1.282	− 0.802	+ 1.494	+ 1.110	+ 3.785	+ 3.651	+ 1.094	+ 0.444
2回正中	10月1日		10月1日		10日1日		10月2日	
a b	+ 0.1437	− 0.0526	+ 0.1667	+ 0.0728	+ 0.1976	+ 0.2393	+ 0.1590	+ 0.0291
a′ b′	+ 0.9837	− 0.1801	+ 0.9836	− 0.1805	+ 0.9833	− 0.1819	+ 0.9813	− 0.1924
FK3番號	26		25		24		27	

星名	δ Pisc		λ Hydi		Br. 82 Cass		φ² Ceti	
等級	4.55		4.96		5.45		5.24	
スペクトル型	K5		K5		F2, A2		F5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 0 45	° ′ + 7 16	h m 0 46	° ′ −75 13	h m 0 47	° ′ +63 56	h m 0 47	° ′ −10 56
	s	″	s	″	s	″	s	″
1 0.8	45.725 120	45.19 72	37.47 76	67.49 56	18.47 41	46.49 12	18.450 122	55.50 64
10.7	45.605 122	44.47 75	36.71 74	66.93 116	18.06 41	46.37 67	18.328 124	56.14 46
20.7	45.483 120	43.72 74	35.97 68	65.77 173	17.65 40	45.70 120	18.204 120	56.60 28
30.7	45.363 110	42.98 71	35.29 62	64.04 225	17.25 37	44.50 168	18.084 110	56.88 6
2 9.7	45.233 96	42.27 64	34.67 53	61.79 270	16.88 32	42.82 210	17.974 96	56.94 16
19.6	45.157	41.63	34.14	59.09 308	16.56 27	40.72 242	17.878 75	56.78 38
29.6	45.083 47	41.10 53	33.71 43	56.01 338	16.29 19	38.30 264	17.803 48	56.40 63
3 10.6	45.036 15	40.72 38	33.39 32	52.63 361	16.10 10	35.66 275	17.755 17	55.77 87
20.5	45.021 24	40.51 21	33.19 20	49.02 374	16.00 1	32.91 275	17.738 20	54.90 111
30.5	45.045 64	40.53 2 25	33.12 7 6	45.28 381	15.99 8	30.16 262	17.758 61	53.79 135
4 9.5	45.109 107	40.78 52	33.18	41.47	16.07	27.54	17.819	52.44
19.5	45.216 150	41.30 78	33.37 19	37.68 379	16.25 18	25.13 241	17.921 102	50.87 157
29.4	45.366 191	42.08 105	33.70 33	34.00 368	16.52 27	23.04 209	18.066 145	49.09 178
5 9.4	45.557 227	43.13 130	34.15 45	30.50 350	16.87 35	21.34 170	18.251 185	47.15 194
19.4	45.784 258	44.43 152	34.73 58 68	27.27 323 291	17.30 43 49	20.08 126 76	18.473 222 255	45.07 208 216
29.4	46.042	45.95	35.41	24.36	17.79	19.32	18.728	42.91
6 8.3	46.326 284	47.66 171	36.18 77	21.86 250	18.32 53	19.07 25	19.008 280	40.71 220
18.3	46.627 301	49.51 185	37.02 84	19.81 205	18.88 56	19.34 27	19.308 300	38.54 217
28.3	46.937 310	51.46 195	37.91 89	18.28 153	19.46 58	20.12 78	19.618 310	36.44 210
7 8.2	47.248 311 305	53.46 200 198	38.84 93 92	17.29 99 42	20.03 57 56	21.40 128 173	19.932 314 307	34.47 197 179
18.2	47.553	55.44	39.76	16.87 17	20.59	23.13	20.239	32.68
28.2	47.843 290	57.37 193	40.66 90	17.04 74	21.12 53	25.28 215	20.534 295	31.13 155
8 7.2	48.112 269	59.20 183	41.51 85	17.78 130	21.61 49	27.79 251	20.808 274	29.84 129
17.1	48.355 243	60.87 167	42.28 77	19.08 181	22.05 44	30.61 282	21.057 249	28.85 99
27.1	48.567 212 178	62.37 150 129	42.96 68 56	20.89 225	22.43 38 31	33.68 307 325	21.274 217 182	28.17 68 37
9 6.1	48.745 143	63.66 107	43.52 42	23.14 263	22.74	36.93	21.456 147	27.80
16.1	48.888 107	64.73 83	43.94 27	25.77 290	22.99 25	40.30 337	21.603 109	27.75 5
26.0	48.995 73	65.56 61	44.21 12	28.67 306	23.17 18	43.72 342	21.712 73	27.99 24
10 5.9	49.068 41	66.17 40	44.33 4	31.73 311	23.27 10	47.12 340	21.785 39	28.49 50
15.9	49.109 10	66.57 18	44.29 19	34.84 303	23.31 4 4	50.43 331 315	21.824 7	29.20 71 89
25.9	49.119 17	66.75 0	44.10	37.87	23.27	53.58	21.831	30.09
11 4.9	49.102 41	66.75 16	43.76 34	40.71 284	23.17 10	56.51 293	21.810 21	31.09 100
14.9	49.061 62	66.59 31	43.30 46	43.23 252	23.00 17	59.14 263	21.764 46	32.15 106
24.9	48.999 79	66.28 43	42.73 57	45.34 211	22.77 23	61.40 226	21.696 68	33.23 108
12 4.8	48.920 94	65.85 53	42.07 66 71	46.94 160 104	22.48 29 33	63.23 183 134	21.611 85 100	34.28 105 97
14.8	48.826 107	65.32 62	41.36 75	47.98 44	22.15 36	64.57 82	21.511 110	35.25 86
24.8	48.719 114	64.70 67	40.61 77	48.42 19	21.79 40	65.39 26	21.401 117	36.11 72
34.8	48.605	64.03	39.84	48.23	21.39	65.65	21.284	36.83
平位	s 46.433	″ 50.37	s 39.257	″ 40.94	s 18.429	″ 35.24	s 19.255	″ 43.84
sec δ, tan δ	+ 1.008	+ 0.128	+ 3.922	− 3.792	+ 2.277	+ 2.045	+ 1.019	− 0.193
2回正中	10月2日		10月2日		10月3日		10月3日	
a b	+ 0.1550	+ 0.0083	+ 0.1022	− 0.2476	+ 0.1813	+ 0.1334	+ 0.1507	− 0.0126
a′ b′	+ 0.9801	− 0.1984	+ 0.9794	− 0.2022	+ 0.9788	− 0.2050	+ 0.9788	− 0.2050
FK3番號	28		31		29		30	

星名	λ² Tucn		γ Cass		μ Andr		α Scul	
等級	5.34		2.25		3.94		4.39	
スペクトル型	K0		B0p		A2		B5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 0 52	° ′ −69 49	h m 0 53	° ′ +60 24	h m 0 53	° ′ +38 11	h m 0 55	° ′ −29 39
	s	″	s	″	s	″	s	″
1 0.8	53.83	72.81	18.55	60.79	37.753 180	50.75	53.675 152	52.86
10.7	53.29 54	72.47 34	18.20 35	60.68 11	37.573 185	50.27 48	53.523 153	53.33 47
20.7	52.76 53	71.53 94	17.85 35	60.04 64	37.388 182	49.44 83	53.370 149	53.44 11
30.7	52.27 49	70.03 150	17.50 35	58.89 115	37.206 171	48.29 115	53.221 137	53.18 26
2 9.7	51.82 45 40	68.00 203 249	17.18 32 29	57.28 161 201	37.035 152	46.87 142 164	53.084 121	52.56 62 97
19.6	51.42	65.51	16.89	55.27	36.883	45.23	52.963	51.59
29.6	51.10 32	62.61 290	16.65 24	52.95 232	36.759 124	43.45 178	52.865 98	50.28 131
3 10.6	50.86 24	59.39 322	16.48 17	50.42 253	36.673 86	41.60 185	52.796 69	48.66 162
20.5	50.71 15	55.92 347	16.38 10	47.78 264	36.631 42	39.78 182	52.762 34	46.76 190
30.5	50.65 6 3	52.27 365 374	16.36 2 7	45.15 263 251	36.638 7 62	38.06 172 153	52.768 6 48	44.60 216 238
4 9.5	50.68	48.53	16.43	42.64	36.700	36.53	52.816	42.22
19.5	50.82 14	44.78 375	16.59 16	40.35 229	36.816 116	35.26 127	52.911 95	39.67 255
29.4	51.07 25	41.09 369	16.82 23	38.36 199	36.987 171	34.30 96	53.052 141	37.00 267
5 9.4	51.40 33	37.56 353	17.14 32	36.75 161	37.208 221	33.70 60	53.237 185	34.25 275
19.4	51.84 44 51	34.25 331 301	17.52 38 44	35.58 117 70	37.475 267 305	33.49 21 20	53.465 228 264	31.50 275 271
29.4	52.35	31.24	17.96	34.88	37.780	33.69	53.729	28.79
6 8.3	52.93 58	28.60 264	18.44 48	34.68 20	38.115 335	34.29 60	54.025 296	26.20 259
18.3	53.57 64	26.39 221	18.95 51	34.99 31	38.470 355	35.28 99	54.344 319	23.79 241
28.3	54.25 68	24.67 172	19.47 52	35.79 80	38.836 366	36.63 135	54.678 334	21.61 218
7 8.2	54.96 71 71	23.48 119 62	19.99 52 52	37.06 127 172	39.203 367 359	38.30 167 196	55.018 340 337	19.74 187 153
18.2	55.67	22.86	20.51	38.78	39.562	40.26	55.355	18.21
28.2	56.36 69	22.81 5	20.99 48	40.89 211	39.905 343	42.45 219	55.682 327	17.06 115
8 7.2	57.01 65	23.34 53	21.44 45	43.35 246	40.223 318	44.82 237	55.988 306	16.32 74
17.1	57.61 60	24.43 109	21.85 41	46.11 276	40.510 287	47.32 250	56.269 281	16.02 30
27.1	58.14 53 44	26.04 161 208	22.21 36 30	49.09 298 316	40.762 252 214	49.89 257 258	56.516 247 209	16.14 12 53
9 6.1	58.58	28.12	22.51	52.25	40.976	52.47	56.725	16.67
16.1	58.91 33	30.59 247	22.75 24	55.51 326	41.148 172	55.03 256	56.894 169	17.59 92
26.0	59.15 24	33.37 278	22.92 17	58.82 331	41.280 132	57.51 248	57.021 127	18.84 125
10 6.0	59.26 11	36.35 298	23.04 12	62.10 328	41.371 91	59.86 235	57.105 84	20.37 153
15.9	59.26 0 10	39.41 306 301	23.09 5 2	65.29 319 304	41.421 50 14	62.05 219 199	57.149 44 5	22.10 173 186
25.9	59.16	42.42	23.07	68.33	41.435 22	64.04	57.154 29	23.96
11 4.9	58.94 22	45.28 286	23.00 7	71.14 281	41.413 55	65.80 176	57.125 60	25.85 189
14.9	58.64 30	47.87 259	22.87 13	73.66 252	41.358 85	67.29 149	57.065 87	27.71 186
24.9	58.25 39	50.08 221	22.69 18	75.83 217	41.273 112	68.47 118	56.978 109	29.45 174
12 4.8	57.80 45 50	51.83 175 120	22.45 24 27	77.59 176 129	41.161 137	69.33 86 51	56.869 126	31.00 155 130
14.8	57.30	53.03	22.18	78.88	41.024	69.84	56.743	32.30
24.8	56.78 52	53.66 63	21.87 31	79.66 78	40.869 155	69.98 14	56.605 138	33.31 101
34.8	56.24 54	53.68 2	21.53 34	79.92 26	40.698 171	69.75 23	56.457 148	33.97 66
平位	s 55.197	″ 46.62	s 18.575	″ 50.36	s 38.173	″ 45.83	s 54.527	″ 34.97
sec δ, tan δ	+ 2.900	− 2.722	+ 2.025	+ 1.761	+ 1.272	+ 0.787	+ 1.151	− 0.569
2回正中	10月4日		10月4日		10月4日		10月5日	
a b	+ 0.1118	− 0.1767	+ 0.1804	+ 0.1143	+ 0.1655	+ 0.0510	+ 0.1442	− 0.0368
a′ b′	+ 0.9735	− 0.2289	+ 0.9731	− 0.2305	+ 0.9727	− 0.2319	+ 0.9704	− 0.2415
FK3番號	34		32		33		35	

星名	ε Piscium		26 Ceti		† β Phoenicis *m*		ε Tucanae	
等級	4.45		6.07		3.35		5.32	
スペクトル型	K0		F0		K0		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 1 0	° ′ ″ +7 35	h m s 1 0	° ′ ″ +1 3	h m s 1 3	° ′ ″ −47 0	h m s 1 5	° ′ ″ −62 4
1 0.8	1.390 121	15.38 69	55.280 119	53.91 70	34.396 225	87.77 27	4.87 37	51.63 1
10.7	1.269 126	14.69 71	55.161 123	53.21 66	34.171 225	88.04 23	4.50 38	51.62 58
20.7	1.143 125	13.98 72	55.038 123	52.55 58	33.946 216	87.81 72	4.12 35	51.04 114
30.7	1.018 118	13.26 68	54.915 116	51.97 48	33.730 201	87.09 119	3.77 33	49.90 167
2 9.7	0.900 107	12.58 62	54.799 103	51.49 36	33.529 180	85.90 164	3.44 29	48.23 214
19.6	0.793 86	11.96 52	54.696 85	51.13 21	33.349 149	84.26 203	3.15 25	46.09 257
29.6	0.707 61	11.44 38	54.611 60	50.92 4	33.200 112	82.23 239	2.90 19	43.52 293
3 10.6	0.646 28	11.06 21	54.551 28	50.88 17	33.088 70	79.84 270	2.71 12	40.59 322
20.6	0.618 9	10.85 0	54.523 8	51.05 39	33.018 20	77.14 294	2.58 13	37.37 343
30.5	0.627 49	10.85 23	54.531 48	51.44 63	32.998 32	74.20 313	2.53 5	33.94 359
4 9.5	0.676	11.08	54.579 91	52.07 87	33.030 87	71.07 325	2.54 9	30.35 365
19.5	0.769 93	11.57 49	54.670 134	52.94 112	33.117 144	67.82 331	2.63 18	26.70 364
29.4	0.906 137	12.32 75	54.804 176	54.06 135	33.261 199	64.51 329	2.81 24	23.06 355
5 9.4	1.084 178	13.32 100	54.980 213	55.41 156	33.460 251	61.22 321	3.05 32	19.51 338
19.4	1.301 217 250	14.58 126 148	55.193 246	56.97 174	33.711 298	58.01 304	3.37 38	16.13 314
29.4	1.551 276	16.06 167	55.439 274	58.71 188	34.009 338	54.97 281	3.75 44	12.99 282
6 8.3	1.827 296	17.73 182	55.713 294	60.59 196	34.347 369	52.16 251	4.19 49	10.17 243
18.3	2.123 308	19.55 191	56.007 305	62.55 201	34.716 391	49.65 215	4.68 52	7.74 199
28.3	2.431 312	21.46 197	56.312 310	64.56 200	35.107 404	47.50 173	5.20 54	5.75 150
7 8.3	2.743 307	23.43 197	56.622 306	66.56 193	35.511 404	45.77 126	5.74 54	4.25 96
18.2	3.050 294	25.40 192	56.928 294	68.49 182	35.915 395	44.51 77	6.28 54	3.29 39
28.2	3.344 276	27.32 182	57.222 276	70.31 165	36.310 374	43.74 25	6.82 51	2.90 17
8 7.2	3.620 252	29.14 168	57.498 251	71.96 146	36.684 345	43.49 27	7.33 47	3.07 74
17.1	3.872 222	30.82 150	57.749 223	73.42 124	37.029 306	43.76 78	7.80 42	3.81 127
27.1	4.094 190	32.32 129	57.972 191	74.66 98	37.335 261	44.54 124	8.22 36	5.08 176
9 6.1	4.284 156	33.61 108	58.163 157	75.64 73	37.596 210	45.78 168	8.58 28	6.84 220
16.1	4.440 122	34.69 85	58.320 122	76.37 47	37.806 157	47.46 203	8.86 21	9.04 253
26.0	4.562 87	35.54 63	58.442 88	76.84 23	37.963 101	49.49 230	9.07 12	11.57 279
10 6.0	4.649 55	36.17 40	58.530 55	77.07 0	38.064 48	51.79 248	9.19 5	14.36 293
15.9	4.704 24	36.57 20	58.585 24	77.07 20	38.112 6	54.27 257	9.24 4	17.29 295
25.9	4.728 —	36.77 2	58.609 —	76.87 36	38.106 53	56.84 254	9.20 11	20.24 286
11 4.9	4.725 3	36.79 14	58.606 3	76.51 49	38.053 97	59.38 240	9.09 19	23.10 265
14.9	4.696 29	36.65 30	58.577 29	76.02 60	37.956 135	61.78 218	8.90 24	25.75 233
24.9	4.645 51	36.35 40	58.526 70	75.42 66	37.821 166	63.96 187	8.66 29	28.08 193
12 4.8	4.574 71 88	35.95 40 51	58.456 87	74.76 70	37.655 190	65.83 148	8.37 33	30.01 144
14.8	4.486	35.44	58.369	74.06	37.465	67.31	8.04	31.45
24.8	4.383 103	34.85 59	58.268 101	73.35 71	37.256 209	68.34 103	7.69 35	32.36 91
34.8	4.270 113	34.21 64	58.157 111	72.65 70	37.038 218	68.91 57	7.32 37	32.70 34
平位	s 2.014	″ 20.77	s 55.936	″ 61.62	s 35.282	″ 65.21	s 5.859	″ 26.26
sec δ, tan δ	+ 1.009	+ 0.133	+ 1.000	+ 0.019	+ 1.467	− 1.073	+ 2.135	− 1.887
2回正中	10月 6日		10月 6日		10月 7日		10月 7日	
a b	+ 0.1556	+ 0.0086	+ 0.1537	+ 0.0012	+ 0.1337	− 0.0688	+ 0.1181	− 0.1207
a′ b′	+ 0.9659	− 0.2590	+ 0.9649	− 0.2627	+ 0.9618	− 0.2739	+ 0.9599	− 0.2802
FK3番號	36		37		38		39	

星名	η Ceti		β Andromedae		44 H. Ceph		τ Piscium	
等級	3.60		2.37		5.68		4.70	
スペクトル型	K0		M0		A0		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 1 5	° ′ ″ −10 28	h m s 1 6	° ′ ″ +35 19	h m s 1 7	° ′ ″ +79 22	h m s 1 8	° ′ ″ +29 47
1 0.8	45.633 123	54.72 70	34.930 168	30.82 41	23.02 109	48.79 52	33.717 151	36.33 47
10.7	45.510 127	55.42 51	34.762 175	30.41 73	21.93 112	49.31 12	33.566 159	35.86 73
20.7	45.383 127	55.93 32	34.587 176	29.68 102	20.81 110	49.19 74	33.407 161	35.13 98
30.7	45.256 120	56.25 11	34.411 168	28.66 128	19.71 103	48.45 134	33.246 154	34.15 117
2 9.7	45.136 108	56.36 11	34.243 153	27.38 148	18.68 94	47.11 186	33.092 141	32.98 132
19.6	45.028 90	56.25 34	34.090 128	25.90 161	17.74 79	45.25 232	32.951 117	31.66 141
29.6	44.938 65	55.91 58	33.962 94	24.29 168	16.95 62	42.93 266	32.834 87	30.25 144
3 10.6	44.873 34	55.33 83	33.868 53	22.61 165	16.33 42	40.27 291	32.747 49	28.81 139
20.6	44.839 2	54.50 108	33.815 6	20.96 156	15.91 20	37.36 302	32.698 5	27.42 126
30.5	44.841 42	53.42 131	33.809 46	19.40 139	15.71 3	34.34 301	32.693 43	26.16 109
4 9.5	44.883 84	52.11 155	33.855 99	18.01 115	15.74 25	31.33 289	32.736 94	25.07 84
19.5	44.967 128	50.56 175	33.954 152	16.86 85	15.99 47	28.44 267	32.830 143	24.23 55
29.4	45.095 169	48.81 193	34.106 203	16.01 52	16.46 66	25.77 234	32.973 192	23.68 23
5 9.4	45.264 208	46.88 207	34.309 249	15.49 15	17.12 84	23.43 193	33.165 236	23.45 11
19.4	45.472 243	44.81 217	34.558 288	15.34 22	17.96 99	21.50 147	33.401 273	23.56 47
29.4	45.715 272	42.64 221	34.846 319	15.56 61	18.95 110	20.03 96	33.674 303	24.03 81
6 8.3	45.987 293	40.43 220	35.165 341	16.17 97	20.05 118	19.07 42	33.977 325	24.84 114
18.3	46.280 307	38.23 214	35.506 355	17.14 131	21.23 123	18.65 13	34.302 339	25.98 143
28.3	46.587 312	36.09 202	35.861 359	18.45 161	22.46 125	18.78 67	34.641 342	27.41 169
7 8.3	46.899 310	34.07 184	36.220 353	20.06 187	23.71 123	19.45 119	34.983 339	29.10 190
18.2	47.209 300	32.23 162	36.573 340	21.93 209	24.94 119	20.64 169	35.322 326	31.00 206
28.2	47.509 282	30.61 135	36.913 318	24.02 224	26.13 111	22.33 215	35.648 305	33.06 218
8 7.2	47.791 259	29.26 107	37.231 291	26.26 236	27.24 102	24.48 256	35.953 280	35.24 224
17.1	48.050 231	28.19 74	37.522 258	28.62 241	28.26 90	27.04 292	36.233 248	37.48 226
27.1	48.281 198	27.45 43	37.780 223	31.03 243	29.16 77	29.96 321	36.481 215	39.74 222
9 6.1	48.479 164	27.02 10	38.003 183	33.46 239	29.93 62	33.17 344	36.696 179	41.96 214
16.1	48.643 128	26.92 19	38.186 145	35.85 230	30.55 46	36.61 361	36.875 141	44.10 204
26.0	48.771 92	27.11 47	38.331 107	38.15 219	31.01 30	40.22 370	37.016 105	46.14 190
10 6.0	48.863 59	27.58 69	38.438 67	40.34 203	31.31 12	43.92 372	37.121 69	48.04 172
15.9	48.922 26	28.27 88	38.505 32	42.37 184	31.43 5	47.64 365	37.190 34	49.76 153
25.9	48.948 —	29.15 102	38.537 —	44.21 163	31.38	51.29	37.224 2	51.29 132
11 4.9	48.945 3	30.17 108	38.534 3	45.84 137	31.15 23	54.78 349	37.226 28	52.61 108
14.9	48.915 30	31.25 111	38.498 36	47.21 110	30.75 40	58.05 327	37.198 56	53.69 84
24.9	48.862 53	32.36 109	38.432 66	48.31 80	30.18 57	60.99 294	37.142 82	54.53 56
12 4.8	48.789 73 91	33.45 102	38.339 93 118	49.11 49	29.46 72 86	63.53 254 206	37.060 105	55.09 29
14.8	48.698	34.47	38.221	49.60	28.60	65.59	36.955	55.38
24.8	48.594 104	35.37 90	38.081 140	49.76 16	27.62 98	67.11 152	36.830 125	55.39 1
34.8	48.478 116	36.14 77	37.925 156	49.58 18	26.57 105	68.03 92	36.689 141	55.11 28
平位	s 46.317	″ 42.88	s 35.306	″ 27.10	s 21.203	″ 36.09	s 34.136	″ 34.37
sec δ, tan δ	+ 1.017	− 0.185	+ 1.226	+ 0.709	+ 5.424	+ 5.331	+ 1.152	+ 0.573
2回正中	10月 7日		10月 7日		10月 8日		10月 8日	
a b	+ 0.1498	− 0.0118	+ 0.1669	+ 0.0453	+ 0.2563	+ 0.3402	+ 0.1646	+ 0.0365
a′ b′	+ 0.9591	− 0.2831	+ 0.9581	− 0.2865	+ 0.9571	− 0.2897	+ 0.9556	− 0.2947
FK3番號	40		42		41		43	

星名	102 G. Scul		υ Pisc		ϑ Ceti		φ Cass	
等級	5.91		4.67		3.83		4.96	
スペクトル型	A5		A2		K0		K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
月 日	1 10	−38 8	1 16	+26 58	1 21	− 8 28	1 21	+67 50
	s	″	s	″	s	″	s	″
1 0.8	9.947	90.43	22.506	13.93	12.796	29.92	57.35	29.62
10.8	9.766 181	90.91 48	22.362 144	13.47 46	12.674 122	30.66 74	56.88 47	30.05 43
20.7	9.582 184	90.95 4	22.210 152	12.78 69	12.545 129	31.23 57	56.39 49	29.91 14
30.7	9.401 181	90.55 40	22.054 156	11.88 90	12.414 131	31.63 40	55.89 50	29.20 71
2 9.7	9.231 170	89.72 83	21.902 152	10.81 107	12.286 128	31.84 21	55.41 48	27.95 125
	153	124	140	119	119	1	44	172
19.6	9.078	88.48	21.762	9.62	12.167	31.83	54.97	26.23
29.6	8.949 129	86.85 163	21.644 118	8.35 127	12.066 101	31.61 22	54.59 38	24.09 214
3 10.6	8.851 98	84.88 197	21.554 90	7.07 128	11.987 79	31.15 46	54.29 30	21.64 245
20.6	8.789 62	82.60 228	21.499 55	5.84 123	11.938 49	30.45 70	54.08 21	18.98 266
30.5	8.770 19	80.06 254	21.487 12	4.74 110	11.924 14	29.51 94	53.97 11	16.23 275
	27	277	34	93	25	118	1	274
4 9.5	8.797	77.29	21.521	3.81	11.949	28.33	53.98	13.49
19.5	8.874 77	74.37 292	21.605 84	3.12 69	12.018 69	26.91 142	54.10 12	10.88 261
29.5	9.002 128	71.34 303	21.738 133	2.71 41	12.130 112	25.27 164	54.33 23	8.49 239
5 9.4	9.180 178	68.28 306	21.919 181	2.60 11	12.284 154	23.45 182	54.66 33	6.41 208
19.4	9.404 224	65.24 304	22.143 224	2.82 22	12.480 196	21.47 198	55.08 42	4.72 169
	267	295	262	56	230	210	51	124
29.4	9.671	62.29	22.405	3.38	12.710	19.37	55.59	3.48
6 8.3	9.974 303	59.51 278	22.698 293	4.25 87	12.972 262	17.21 216	56.16 57	2.71 77
18.3	10.305 331	56.96 255	23.014 316	5.43 118	13.256 284	15.03 218	56.78 62	2.45 26
28.3	10.657 352	54.71 225	23.345 331	6.88 145	13.557 301	12.89 214	57.43 65	2.70 25
7 8.3	11.019 362	52.82 189	23.681 336	8.56 168	13.866 309	10.85 204	58.09 66	3.45 75
	363	150	333	187	309	189	66	124
18.2	11.382	51.32	24.014	10.43	14.175	8.96	58.75	4.69
28.2	11.737 355	50.28 104	24.336 322	12.44 201	14.476 301	7.28 168	59.40 65	6.38 169
8 7.2	12.074 337	49.70 58	24.640 304	14.54 210	14.762 286	5.83 145	60.00 60	8.48 210
17.2	12.386 312	49.61 9	24.920 280	16.68 214	15.027 265	4.67 116	60.57 57	10.95 247
27.1	12.664 278	49.99 38	25.171 251	18.82 214	15.266 239	3.81 86	61.07 50	13.73 278
	240	85	218	208	208	54	44	303
6.1	12.904	50.84	25.389	20.90	15.474	3.27	61.51	16.76
9 16.1	13.100 196	52.10 126	25.572 183	22.90 200	15.650 176	3.04 23	61.88 37	19.99 323
26.0	13.251 151	53.73 163	25.720 148	24.78 188	15.792 142	3.11 7	62.18 30	23.35 336
10 6.0	13.355 104	55.65 192	25.832 112	26.51 173	15.899 107	3.46 35	62.39 21	26.77 342
15.9	13.413 58	57.79 214	25.910 78	28.07 156	15.973 74	4.05 59	62.52 13	30.19 342
	15	226	43	136	41	79	5	333
25.9	13.428 −27	60.05 228	25.953 12	29.43 116	16.014 13	4.84 93	62.57 −3	33.52
11 4.9	13.401 64	62.33 221	25.965 18	30.59 95	16.027 16	5.77 102	62.54 12	36.71 319
14.9	13.337 96	64.54 205	25.947 45	31.54 71	16.011 40	6.79 108	62.42 20	39.67 296
24.9	13.241 123	66.59 182	25.902 72	32.25 47	15.971 62	7.87 106	62.22 27	42.34 267
12 4.9	13.118 146	68.41 149	25.830 95	32.72 22	15.909 82	8.93 101	61.95 34	44.62 228
14.8	12.972 163	69.90 113	25.735 116	32.94 −3	15.827 99	9.94 92	61.61 40	46.47 135
24.8	12.809 174	71.03 72	25.619 132	32.91 29	15.728 112	10.86 81	61.21 45	47.82 81
34.8	12.635	71.75	25.487	32.62	15.616	11.67	60.76	48.63
平位	s 10.722	″ 69.98	s 22.907	″ 13.07	s 13.375	″ 18.51	s 56.777	″ 18.79
sec δ, tan δ	+ 1.272	− 0.786	+ 1.122	+ 0.509	+ 1.011	− 0.149	+ 2.651	+ 2.455
2回正中	10月8日		10月10日		10月11日		10月11日	
a b	+ 0.1375	− 0.0499	+ 0.1644	+ 0.0321	+ 0.1499	− 0.0093	+ 0.2106	+ 0.1533
a′ b′	+ 0.9535	− 0.3015	+ 0.9450	− 0.3271	+ 0.9379	− 0.3470	+ 0.9368	− 0.3500
FK3番號	44		45		47		46	

星名	δ Cass		γ Phoe		η Pisc		14 G. Hydi	
等級	2.80		3.40		3.72		6.06	
スペクトル型	A5		K5		G5		G5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
月 日	1 22	+59 56	1 25	−43 35	1 28	+15 3	1 33	−78 46
	s	″	s	″	s	″	s	″
1 0.8	8.134	51.46	55.485	98.20	28.506	24.50	15.31	106.71
10.8	7.805 329	51.70 24	55.276 209	98.77 57	28.383 123	23.94 56	14.24 107	106.74 3
20.7	7.459 346	51.42 28	55.062 214	98.85 −8	28.249 134	23.28 66	13.16 108	106.15 59
30.7	7.108 351	50.62 80	54.849 213	98.45 40	28.109 140	22.54 74	12.11 105	104.96 119
2 9.7	6.769 339	49.34 128	54.645 204	97.58 87	27.972 137	21.76 78	11.12 99	103.20 176
	312	170	187	132	130	80	91	227
19.7	6.457	47.64	54.458	96.26	27.842	20.96	10.21	100.93
29.6	6.187 270	45.59 205	54.295 163	94.51 175	27.730 112	20.19 77	9.41 80	98.22 271
3 10.6	5.973 214	43.27 232	54.162 133	92.40 211	27.641 89	19.48 71	8.73 68	95.12 310
20.6	5.828 145	40.78 249	54.069 93	89.95 245	27.583 58	18.89 59	8.20 53	91.73 339
30.5	5.760 68	38.25 253	54.020 49	87.21 274	27.563 20	18.47 42	7.83 37	88.12 361
	16	249	1	295	22	23	21	376
4 9.5	5.776	35.76	54.021	84.26	27.585	18.24	7.62	84.36
19.5	5.879 103	33.42 234	54.075 54	81.13 313	27.652 67	18.24 0	7.59 3	80.54 382
29.5	6.067 188	31.33 209	54.183 108	77.90 323	27.766 114	18.50 26	7.75 16	76.75 379
5 9.4	6.334 267	29.55 178	54.346 163	74.64 326	27.924 158	19.04 54	8.07 32	73.05 370
19.4	6.675 341	28.17 138	54.561 215	71.42 322	28.124 200	19.84 80	8.57 50	69.55 350
	403	96	262	312	237	106	66	325
29.4	7.078	27.21	54.823	68.30	28.361	20.90	9.23	66.30
6 8.4	7.531 453	26.73 48	55.127 304	65.37 293	28.629 268	22.20 130	10.04 81	63.40 290
18.3	8.022 491	26.72 1	55.465 338	62.70 267	28.921 292	23.71 151	10.97 93	60.90 250
28.3	8.537 515	27.19 47	55.828 363	60.35 235	29.230 309	25.39 168	12.01 104	58.87 203
7 8.3	9.062 525	28.13 94	56.206 378	58.39 196	29.545 315	27.19 180	13.12 111	57.36 151
	521	138	384	155	316	189	115	96
18.2	9.583	29.51	56.590	56.84 106	29.861 308	29.08 191	14.27 116	56.40 36
28.2	10.090 507	31.30 179	56.969 379	55.78 55	30.169 292	30.99 189	15.43 115	56.04 23
8 7.2	10.569 479	33.45 215	57.334 365	55.23 −4	30.461 272	32.88 183	16.58 108	56.27 83
17.2	11.013 444	35.92 247	57.675 341	55.19 48	30.733 246	34.71 172	17.66 99	57.10 138
27.1	11.412 399	38.65 273	57.984 309	55.67 97	30.979 217	36.43 159	18.65 87	58.48 191
	349	294	270					
9 6.1	11.761	41.59	58.254	56.64	31.196	38.02	19.52	60.39
16.1	12.055 294	44.67 308	58.479 225	58.06 142	31.381 185	39.43 141	20.24 72	62.74 235
26.1	12.291 236	47.84 317	58.657 178	59.87 181	31.533 152	40.66 123	20.78 54	65.47 273
10 6.0	12.466 175	51.03 319	58.785 128	62.01 214	31.652 119	41.70 104	21.13 35	68.46 299
15.9	12.580 114	54.18 315	58.862 77	64.37 236	31.739 87	42.54 84	21.28 15	71.61 315
	52	304	28	251	56	64	6	318
25.9	12.632 −8	57.22 288	58.890 −18	66.88 253	31.795 25	43.18 45	21.22	74.79
11 4.9	12.624 69	60.10 265	58.872 60	69.41 246	31.820 −2	43.63 27	20.95 27	77.88 309
14.9	12.555 127	62.75 234	58.812 100	71.87 229	31.819 1	43.90 10	20.49 46	80.75 287
24.9	12.428 181	65.09 198	58.712 133	74.16 202	31.790 29	44.00 −6	19.86 63	83.28 253
12 4.9	12.247 231	67.07 156	58.579 160	76.18 169	31.738 52	43.94 20	19.08 78	85.39 211
					76		90	158
14.8	12.016	68.63	58.419	77.87 128	31.662	43.74	18.18	86.97
24.8	11.741 275	69.72 109	58.236 183	79.15 84	31.567 95	43.39 35	17.19 99	87.99 102
34.8	11.431 310	70.31 59	58.038 198	79.99	31.455 112	42.93 46	16.14 105	88.39 40
平位	s 7.934	″ 42.00	s 56.126	″ 76.28	s 28.929	″ 27.89	s 15.544	″ 79.72
sec δ, tan δ	+ 1.997	+ 1.723	+ 1.381	− 0.952	+ 1.036	+ 0.269	+ 5.143	− 5.045
2回正中	10月11日		10月12日		10月13日		10月14日	
a b	+ 0.1937	+ 0.1079	+ 0.1301	− 0.0591	+ 0.1601	+ 0.0166	+ 0.0202	− 0.3089
a′ b′	+ 0.9365	− 0.3508	+ 0.9305	− 0.3662	+ 0.9264	− 0.3766	+ 0.9183	− 0.3958
FK3番號	48		49		50		53	

本初子午線正中時

星名 / 等級 / スペクトル型	40 Cass 5.50 K0		51 Andr 3.77 K0		α Erid 0.60 B5		43 Cass 5.54 A0p	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 1 33	° ′ +72 45	h m 1 34	° ′ +48 20	h m 1 35	° ′ −57 30	h m 1 38	° ′ +67 45
	s	″	s	″	s	″	s	″
1 0.8	60.80 62	31.34 71	32.513 219	49.67 11	37.365 319	99.13 48	10.44 46	49.21 64
10.8	60.18 65	32.05 12	32.294 237	49.78 33	37.046 327	99.61 9	9.98 49	49.85 7
20.7	59.53 66	32.17 47	32.057 244	49.45 74	36.719 324	99.52 65	9.49 49	49.92 49
30.7	58.87 64	31.70 105	31.813 242	48.71 114	36.395 311	98.87 119	9.00 49	49.43 104
2 9.7	58.23 60	30.65 158	31.571 226	47.57 147	36.084 288	97.68 170	8.51 46	48.39 154
19.7	57.63 52	29.07 203	31.345 200	46.10 175	35.796 256	95.98 215	8.05 40	46.85 196
29.6	57.11 43	27.04 240	31.145 162	44.35 195	35.540 213	93.83 256	7.65 33	44.89 231
3 10.6	56.68 32	24.64 267	30.983 113	42.40 206	35.327 162	91.27 291	7.32 25	42.58 256
20.6	56.36 19	21.97 281	30.870 56	40.34 208	35.165 105	88.36 319	7.07 14	40.02 269
30.5	56.17 4	19.16 285	30.814 6	38.26 201	35.060 40	85.17 340	6.93 4	37.33 271
4 9.5	56.13 10	16.31 278	30.820 72	36.25 185	35.020 28	81.77 354	6.89 8	34.62 263
19.5	56.23 23	13.53 259	30.892 138	34.40 162	35.048 99	78.23 361	6.97 19	31.99 244
29.5	56.46 38	10.94 231	31.030 202	32.78 131	35.147 169	74.62 360	7.16 30	29.55 216
5 9.4	56.84 49	8.63 195	31.232 260	31.47 96	35.316 237	71.02 349	7.46 40	27.39 181
19.4	57.33 59	6.68 154	31.492 311	30.51 56	35.553 301	67.53 333	7.86 47	25.58 140
29.4	57.92 69	5.14 106	31.803 354	29.95 15	35.854 357	64.20 308	8.33 56	24.18 93
6 8.4	58.61 75	4.08 56	32.157 386	29.80 27	36.211 405	61.12 276	8.89 60	23.25 45
18.3	59.36 79	3.52 4	32.543 408	30.07 68	36.616 442	58.36 236	9.49 64	22.80 4
28.3	60.15 82	3.48 47	32.951 419	30.75 107	37.058 467	56.00 191	10.13 66	22.84 55
7 8.3	60.97 82	3.95 97	33.370 418	31.82 145	37.525 481	54.09 140	10.79 67	23.39 103
18.2	61.79 81	4.92 146	33.788 409	33.27 177	38.006 480	52.69 87	11.46 65	24.42 148
28.2	62.60 76	6.38 190	34.197 390	35.04 206	38.486 467	51.82 30	12.11 63	25.90 190
8 7.2	63.36 72	8.28 230	34.587 364	37.10 230	38.953 441	51.52 28	12.74 59	27.80 228
17.2	64.08 66	10.58 266	34.951 331	39.40 248	39.394 404	51.80 83	13.33 53	30.08 261
27.1	64.74 58	13.24 295	35.282 294	41.88 262	39.798 355	52.63 137	13.86 48	32.69 289
9 6.1	65.32	16.19 320	35.576	44.50 270	40.153	54.00	14.34	35.53
16.1	65.81 49	19.39 338	35.827 251	47.20 274	40.452 299	55.85 185	14.75 41	38.68 310
26.1	66.21 40	22.77 348	36.036 209	49.94 271	40.688 236	58.12 227	15.09 34	41.94 326
10 6.0	66.52 31	26.25 352	36.199 163	52.65 264	40.855 167	60.70 258	15.35 26	45.29 335
16.0	66.71 19	29.77 349	36.317 118	55.29 253	40.953 98	63.51 281	15.52 17	48.67 338
		9	73		28	293	10	333
25.9	66.80 1	33.26 338	36.390 27	57.82 235	40.981 29	66.44 292	15.62 1	52.00 321
11 4.9	66.79 13	36.64 318	36.417 16	60.17 214	40.942 102	69.36 280	15.63 7	55.21 302
14.9	66.66 24	39.82 292	36.401 59	62.31 187	40.840 160	72.16 258	15.56 15	58.23 275
24.9	66.42 34	42.74 256	36.342 100	64.18 155	40.680 209	74.74 223	15.41 24	60.98 242
12 4.9	66.08 43	45.30 214	36.242 139	65.73 117	40.471 251	76.97 182	15.17 31	63.40 200
14.8	65.65 51	47.44 163	36.103 172	66.90 86	40.220 284	78.79 134	14.86 37	65.40 153
24.8	65.14 58	49.07 110	35.931 202	67.76 39	39.936 307	80.13 80	14.49 43	66.93 100
34.8	64.56	50.17	35.729	68.15	39.629	80.93	14.06	67.93
平位	s 59.663	″ 20.26	s 32.533	″ 43.19	s 37.880	″ 74.42	s 9.705	″ 38.97
sec δ,tan δ	+ 3.373	+ 3.222	+ 1.505	+ 1.124	+ 1.862	− 1.571	+ 2.642	+ 2.446
2 回正中	10 月 14 日		10 月 15 日		10 月 15 日		10 月 15 日	
a b	+ 0.2390	+ 0.1970	+ 0.1834	+ 0.0687	+ 0.1109	− 0.0957	+ 0.2210	+ 0.1483
a′ b′	+ 0.9171	− 0.3987	+ 0.9161	− 0.4009	+ 0.9142	− 0.4053	+ 0.9097	− 0.4153
FK3番號	51		52		54		55	

本初子午線正中時

星名 / 等級 / スペクトル型	ν Pisc 4.68 K0		129 G. Scul 5.64 A0		φ Pers 4.19 B0p		τ Ceti 3.65 K0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 1 38	° ′ +5 12	h m 1 39	° ′ −37 6	h m 1 40	° ′ +50 24	h m 1 41	° ′ −16 13
	s	″	s	″	s	″	s	″
1 0.8	30.397 116	10.81 66	34.354 179	71.62 76	8.238 230	33.84 21	27.447 132	68.61 77
10.8	30.281 128	10.15 65	34.175 189	72.38 32	8.008 250	34.05 23	27.315 142	69.38 53
20.7	30.153 135	9.50 61	33.986 191	72.70 12	7.758 259	33.82 66	27.173 146	69.91 26
30.7	30.018 134	8.89 55	33.795 187	72.58 56	7.499 258	33.16 107	27.027 146	70.17 1
2 9.7	29.884 128	8.34 47	33.608 175	72.02 99	7.241 243	32.09 144	26.881 138	70.16 30
19.7	29.756 114	7.87 36	33.433 157	71.03 140	6.998 217	30.65 174	26.743 123	69.86 58
29.6	29.642 92	7.51 22	33.276 130	69.63 177	6.781 177	28.91 196	26.620 101	69.28 87
3 10.6	29.550 64	7.29 7	33.146 97	67.86 211	6.604 128	26.95 210	26.519 72	68.41 113
20.6	29.486 29	7.24 5	33.049 56	65.75 241	6.476 68	24.85 214	26.447 38	67.28 141
30.6	29.457 11	7.38 14	32.993 12	63.34 266	6.408 4	22.71 209	26.409 2	65.87 165
		36						
4 9.5	29.468	7.74 60	32.981 38	60.68 286	6.404 65	20.62 195	26.411	64.22 188
19.5	29.523 55	8.34 83	33.019 89	57.82 300	6.469 134	18.67 172	26.456 45	62.34 209
29.5	29.622 99	9.17 107	33.108 141	54.82 309	6.603 200	16.95 144	26.546 90	60.25 223
5 9.4	29.765 143	10.24 130	33.249 189	51.73 310	6.803 262	15.51 108	26.681 135	58.02 237
19.4	29.950 185	11.54 149	33.438 234	48.63 305	7.065 315	14.43 70	26.858 177	55.65 243
	222						216	
29.4	30.172	13.03 167	33.672	45.58 292	7.380 362	13.73 29	27.074 249	53.22 246
6 8.4	30.426 254	14.70 180	33.947 275	42.66 272	7.742 395	13.44 14	27.323 276	50.76 240
18.3	30.705 279	16.50 189	34.255 308	39.94 246	8.137 420	13.58 57	27.599 296	48.36 230
28.3	31.002 297	18.39 192	34.587 332	37.48 213	8.557 431	14.15 97	27.895 307	46.06 213
7 8.3	31.308 306	20.31 190	34.936 349	35.35 175	8.988 434	15.12 135	28.202 311	43.93 192
	308		355					
18.3	31.616	22.21	35.291	33.60	9.422	16.47	28.513	42.01
28.2	31.919 303	24.05 184	35.645 354	32.29 131	9.847 425	18.16 169	28.820 307	40.36 165
8 7.2	32.209 290	25.77 172	35.987 342	31.44 85	10.254 407	20.16 200	29.114 294	39.03 133
17.2	32.480 271	27.34 157	36.309 322	31.08 36	10.635 381	22.42 226	29.390 276	38.04 99
27.1	32.727 247	28.72 138	36.603 294	31.22 14	10.983 348	24.89 247	29.642 252	37.42 62
	220	116	262	62	310	262	223	25
9 6.1	32.947	29.88	36.865	31.84	11.293	27.51	29.865	37.17
16.1	33.136 189	30.81 93	37.088 223	32.92 108	11.562 269	30.23 272	30.055 190	37.30 13
26.1	33.294 158	31.50 69	37.269 181	34.40 148	11.785 223	33.01 278	30.212 157	37.76 46
10 6.0	33.420 126	31.95 45	37.406 137	36.22 182	11.963 178	35.79 278	30.333 121	38.54 78
16.0	33.514 94	32.17 22	37.499 93	38.31 209	12.093 130	38.51 272	30.420 87	39.57 103
	63	3	50	227	83	262	54	124
25.9	33.577	32.20 16	37.549 8	40.58 234	12.176 36	41.13 247	30.474 21	40.81
11 4.9	33.611 34	32.04 30	37.557 31	42.92 233	12.212 11	43.60 225	30.495 8	42.18 137
14.9	33.618 7	31.74 42	37.526 67	45.25 221	12.201 57	45.85 200	30.487 37	43.63 145
24.9	33.598 20	31.32 51	37.459 99	47.46 201	12.144 100	47.85 169	30.450 61	45.08 138
12 4.9	33.554 44	30.81 58	37.360 126	49.47 173	12.044 142	49.54 133	30.389 84	46.46 127
	67							
14.8	33.487 86	30.23 62	37.234 149	51.20 139	11.902 179	50.87 95	30.305 104	47.73 110
24.8	33.401 105	29.61 63	37.085 168	52.59 100	11.723 211	51.82 51	30.201 121	48.83 90
34.8	33.296	28.98	36.917	53.59	11.512	52.33	30.080	49.73
平位	s 30.818	″ 17.78	s 34.864	″ 51.29	s 8.180	″ 27.05	s 27.939	″ 54.27
sec δ,tan δ	+ 1.004	+ 0.091	+ 1.254	− 0.757	+ 1.569	+ 1.209	+ 1.042	− 0.291
2 回正中	10 月 16 日		10 月 16 日		10 月 16 日		10 月 16 日	
a b	+ 0.1559	+ 0.0055	+ 0.1321	− 0.0458	+ 0.1874	+ 0.0730	+ 0.1450	− 0.0175
a′ b′	+ 0.9090	− 0.4167	+ 0.9071	− 0.4210	+ 0.9061	− 0.4232	+ 0.9036	− 0.4284
FK3番號	56		58		57		59	

本初子午線正中時

星名		ο Piscium		ε Sculptoris		ζ Ceti		α Trianguli	
等級		4.50		5.39		3.92		3.58	
スペクトル型		K0		F0		K0		F5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 1 42	° ′ + 8 52	h m 1 42	° ′ −25 19	h m 1 48	° ′ −10 36	h m 1 49	° ′ +29 18
		s	″	s	″	s	″	s	″
1	0.8	25.578	30.22	60.914	71.44	41.261	51.90	52.715	25.52
	10.8	25.461 117	29.61 61	60.771 143	72.27 83	41.141 120	52.72 82	52.575 140	25.31 21
	20.7	25.332 129	28.98 63	60.617 154	72.78 51	41.008 133	53.36 64	52.418 157	24.85 46
	30.7	25.195 137	28.34 64	60.458 159	72.93 15	40.869 139	53.78 42	52.251 167	24.17 68
2	9.7	25.058 137 132	27.72 62 57	60.301 157 149	72.73 20 56	40.728 141 136	53.98 20 3	52.081 170 163	23.29 88 106
	19.7	24.926	27.15	60.152	72.17	40.592	53.95	51.918	22.23
	29.6	24.808 118	26.65 50	60.018 134	71.27 90	40.470 122	53.67 28	51.771 147	21.07 116
3	10.6	24.712 96	26.26 39	59.907 111	70.04 123	40.367 103	53.14 53	51.648 123	19.84 123
	20.6	24.644 68	26.02 24	59.825 82	68.50 154	40.291 76	52.36 78	51.558 90	18.60 124
	30.6	24.612 32 7	25.96 6 14	59.779 46 4	66.66 184 209	40.250 41 3	51.33 103 128	51.510 48 3	17.43 117 104
4	9.5	24.619	26.10	59.775 40	64.57	40.247 40	50.05	51.507 49	16.39
	19.5	24.671 52	26.46 36	59.815 87	62.26 231	40.287 84	48.53 152	51.556 100	15.53 86
	29.5	24.768 97	27.07 61	59.902 133	59.76 250	40.371 128	46.80 173	51.656 150	14.90 63
5	9.4	24.910 142	27.93 86	60.035 179	57.13 263	40.499 171	44.87 193	51.806 199	14.55 35
	19.4	25.094 184 222	29.02 109 132	60.214 219	54.43 270 273	40.670 210	42.80 207 219	52.005 241	14.49 6 26
	29.4	25.316	30.34	60.433	51.70	40.880	40.61	52.246	14.75
6	8.4	25.570 254	31.85 151	60.689 256	49.01 269	41.124 244	38.36 225	52.524 278	15.31 56
	18.3	25.850 280	33.52 167	60.974 285	46.43 258	41.395 271	36.10 226	52.830 306	16.18 87
	28.3	26.148 298	35.31 179	61.281 307	44.03 240	41.687 292	33.89 221	53.157 327	17.33 115
7	8.3	26.456 308 310	37.16 185 188	61.601 320 327	41.86 217 187	41.991 304 308	31.78 211 194	53.496 339 341	18.73 140 161
	18.3	26.766	39.04	61.928	39.99	42.299	29.84	53.837	20.34
	28.2	27.072 306	40.89 185	62.251 323	38.46 153	42.605 306	28.11 173	54.173 336	22.12 178
8	7.2	27.364 292	42.66 177	62.564 313	37.31 115	42.900 295	26.65 146	54.497 324	24.03 191
	17.2	27.639 275	44.32 166	62.858 294	36.58 73	43.179 279	25.48 117	54.802 305	26.01 198
	27.1	27.890 251 224	45.81 149 131	63.123 270 240	36.28 30 13	43.434 255 230	24.64 84 51	55.081 279 252	28.02 201 201
	6.1	28.114	47.12	63.368	36.41	43.664	24.13	55.333	30.03
	16.1	28.308 194	48.21 109	63.575 207	36.95 54	43.863 199	23.97 16	55.553 220	31.98 195
9	26.1	28.471 163	49.10 89	63.746 171	37.87 92	44.030 167	24.13 16	55.740 187	33.85 187
	6.0	28.601 130	49.76 66	63.879 133	39.13 126	44.164 134	24.59 46	55.893 153	35.62 177
10	16.0	28.701 100 68	50.20 44 25	63.974 95 59	40.66 153 173	44.266 102 69	25.31 72 94	56.011 118 85	37.24 162 148
	25.9	28.769	50.45	64.033	42.39	44.335	26.25	56.096	38.72
	4.9	28.809 40	50.52 7	64.057 24	44.23 184	44.373 38	27.34 109	56.147 51	40.01 129
11	14.9	28.820 11	50.43 9	64.047 10	46.12 189	44.382 9	28.54 120	56.166 19	41.13 112
	24.9	28.804 16	50.20 23	64.007 40	47.97 185	44.363 19	29.78 124	56.153 13	42.03 90
12	4.9	28.763 41 64	49.86 34 44	63.939 68 92	49.69 172 154	44.318 45 68	31.00 122 116	56.109 44 73	42.72 69 45
	14.8	28.699 85	49.42	63.847 114	51.23 130	44.250 90	32.16 105	56.036 101	43.17 22
	24.8	28.614 104	48.92 50	63.733 132	52.53 101	44.160 107	33.21 91	55.935 124	43.39 3
	34.8	28.510	48.36 56	63.601	53.54	44.053	34.12	55.811	43.36
平位		s 25.960	″ 36.00	s 61.391	″ 54.40	s 41.678	″ 39.46	s 52.915	″ 24.81
sec δ, tan δ		+ 1.012	+ 0.156	+ 1.106	− 0.473	+ 1.017	− 0.187	+ 1.147	+ 0.561
2回正中		10月17日		10月17日		10月18日		10月18日	
a	b	+ 0.1573	+ 0.0094	+ 0.1396	− 0.0284	+ 0.1476	− 0.0111	+ 0.1706	+ 0.0332
a′	b′	+ 0.9018	− 0.4322	+ 0.9007	− 0.4345	+ 0.8896	− 0.4567	+ 0.8873	− 0.4613
FK3番號		60		61		62		64	

本初子午線正中時

星名		ε Cassiopeiae		ξ Piscium		φ Phoenicis		β Arietis	
等級		3.44		4.84		4.41		2.72	
スペクトル型		B3		K0		M3		A5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 1 50	° ′ +63 23	h m 1 50	° ′ + 2 54	h m 1 51	° ′ −46 34	h m 1 51	° ′ +20 31
		s	″	s	″	s	″	s	″
1	0.8	21.02	52.47	38.836	34.86	23.769	57.14	32.187	64.33
	10.8	20.66 36	53.15 68	38.722 114	34.17 69	23.544 225	57.94 80	32.063 124	63.94 39
	20.8	20.26 40	53.28 13	38.595 127	33.53 64	23.307 237	58.24 30	31.923 140	63.41 53
	30.7	19.86 40	52.89 39	38.459 136	32.96 57	23.065 242	58.03 21	31.773 150	62.74 67
2	9.7	19.45 41 38	51.97 92 139	38.321 138 134	32.47 49 39	22.827 238 225	57.32 71 120	31.620 153 147	61.96 78 85
	19.7	19.07	50.58	38.187	32.08	22.602	56.12	31.473	61.11
	29.6	18.72 35	48.78 180	38.066 121	31.82 26	22.397 205	54.47 165	31.339 134	60.23 88
3	10.6	18.43 29	46.64 214	37.965 101	31.72 10	22.222 175	52.41 206	31.227 112	59.35 88
	20.6	18.21 22	44.25 239	37.891 74	31.79 7	22.085 137	49.98 243	31.145 82	58.53 82
	30.6	18.07 14 5	41.73 252 256	37.851 40 1	32.07 28 48	21.992 93 42	47.23 275 300	31.101 44 2	57.82 71 54
4	9.5	18.02	39.17	37.850	32.55	21.950	44.23	31.099	57.28
	19.5	18.07 5	36.69 248	37.892 42	33.27 72	21.963 13	41.03 320	31.144 45	56.93 35
	29.5	18.22 15	34.38 231	37.978 86	34.23 96	22.034 71	37.70 333	31.238 94	56.82 11
5	9.5	18.46 24	32.32 206	38.109 131	35.41 118	22.163 129	34.32 338	31.379 141	56.97 15
	19.4	18.79 33 40	30.60 172 134	38.283 174 212	36.81 140 158	22.348 185 238	30.95 337 328	31.565 186 226	57.39 42 70
	29.4	19.19	29.26	38.495	38.39	22.586	27.67	31.791	58.09
6	8.4	19.65 46	28.36 90	38.740 245	40.13 174	22.872 286	24.56 311	32.053 262	59.06 97
	18.3	20.17 52	27.92 44	39.012 272	41.98 185	23.198 326	21.69 287	32.342 289	60.26 120
	28.3	20.72 55	27.96 4	39.303 291	43.89 191	23.556 358	19.14 255	32.650 308	61.68 142
7	8.3	21.29 57 58	28.46 50 96	39.606 303 307	45.83 194 190	23.936 380 393	16.96 218 173	32 970 320 324	63.27 159 173
	18.3	21.87	29.42	39.913	47.73	24.329	15.23	33.294	65.00
	28.2	22.45 58	30.82 140	40.216 303	49.54 181	24.723 394	13.98 125	33.613 319	66.81 181
8	7.2	23.00 55	32.62 180	40.509 293	51.22 168	25.108 385	13.25 73	33.921 308	68.67 186
	17.2	23.52 52	34.77 215	40.785 276	52.73 151	25.476 368	13.07 18	34.211 290	70.51 184
	27.2	24.01 49 43	37.24 247 272	41.038 253 228	54.02 129 106	25.815 339 304	13.42 35 89	34.477 266 240	72.31 180 171
	6.1	24.44	39.96	41.266	55.08	26.119	14.31	34.717	74.02
	16.1	24.82 38	42.90 294	41.465 199	55.89 81	26.381 262	15.68 137	34.927 210	75.62 160
9	26.1	25.14 32	45.98 308	41.633 168	56.44 55	26.595 214	17.50 182	35.106 179	77.07 145
	6.0	25.39 25	49.15 317	41.770 137	56.75 31	26.759 164	19.67 217	35.252 146	78.36 129
10	16.0	25.58 19 12	52.35 320 316	41.876 106 75	56.83 8 13	26.872 113 60	22.13 246 263	35.367 115 82	79.49 113 95
	25.9	25.70	55.51	41.951	56.70	26.932	24.76	35.449	80.44
	4.9	25.75 5	58.57 306	41.997 46	56.39 31	26.941 9	27.47 271	35.501 52	81.20 76
11	14.9	25.73 2	61.45 288	42.014 17	55.94 45	26.902 39	30.13 266	35.523 22	81.80 60
	24.9	25.64 9	64.08 263	42.004 10	55.39 55	26.818 84	32.65 252	35.515 8	82.22 42
12	4.9	25.48 16 22	66.40 232 195	41.969 35 59	54.76 63 67	26.694 124 158	34.93 228 194	35.479 36 62	82.45 23 8
	14.9	25.26	68.35	41.910	54.09	26.536	36.87	35.417	82.53
	24.8	24.98 28	69.86 151	41.829 81	53.40 69	26.348 188	38.42 155	35.329 88	82.43 10
	34.8	24.64 34	70.87 101	41.728 101	52.72 68	26.136 212	39.50 108	35.220 109	82.17 26
平位		s 20.441	″ 43.41	s 39.200	″ 42.80	s 24.145	″ 34.62	s 32.451	″ 66.42
sec δ, tan δ		+ 2.233	+ 1.997	+ 1.001	+ 0.051	+ 1.455	− 1.057	+ 1.068	+ 0.375
2回正中		10月19日		10月19日		10月19日		10月19日	
a	b	+ 0.2150	+ 0.1180	+ 0.1549	+ 0.0030	+ 0.1204	− 0.0623	+ 0.1650	+ 0.0221
a′	b′	+ 0.8863	− 0.4631	+ 0.8857	− 0.4643	+ 0.8842	− 0.4672	+ 0.8839	− 0.4677
FK3番號		63		65		67		66	

本初子午線正中時

星名	η^2 Hydi		χ Erid		α Hydi		υ Ceti	
等級	4.72				3.02		4.18	
スペクトル型	K0		G5		F0		M0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 1 53	° ′ −67 54	h m 1 53	° ′ −51 52	h m 1 56	° ′ −61 50	h m 1 57	° ′ −21 20
	s	″	s	″	s	″	s	″
1 0.8	30.72 50	106.15 53	46.495 262	96.73 76	60.19 38	55.36 69	21.569 134	70.08 92
10.8	30.22 52	106.68 6	46.233 274	97.49 24	59.81 39	56.05 10	21.435 146	71.00 62
20.8	29.70 52	106.62 67	45.959 279	97.73 31	59.42 39	56.15 48	21.289 155	71.62 31
30.7	29.18 50	105.95 124	45.680 273	97.42 84	59.03 39	55.67 105	21.134 157	71.93 2
2 9.7	28.68 48	104.71 178	45.407 259	96.58 135	58.64 37	54.62 158	20.977 151	71.91 35
19.7	28.20	102.93	45.148	95.23	58.27	53.04	20.826	71.56
29.6	27.78 42	100.67 226	44.913 235	93.41 182	57.94 33	50.98 206	20.687 139	70.88 68
3 10.6	27.40 38	97.98 269	44.710 203	91.18 223	57.65 29	48.47 251	20.568 119	69.89 99
20.6	27.10 30	94.93 305	44.549 161	88.56 262	57.41 24	45.59 288	20.476 92	68.59 130
30.6	26.88 22	91.58 335	44.438 111	85.63 293	57.24 17	42.40 319	20.419 57	67.00 159
	13	356	57	318	10	343	18	185
4 9.5	26.75 5	88.02	44.381 4	82.45	57.14 3	38.97	20.401 27	65.15
19.5	26.70 6	84.31 371	44.385 68	79.08 337	57.11 6	35.38 359	20.428 71	63.06 209
29.5	26.76 16	80.55 376	44.453 130	75.60 348	57.17 13	31.69 369	20.499 119	60.77 229
5 9.5	26.92 25	76.80 375	44.583 193	72.07 353	57.30 21	28.00 369	20.618 163	58.32 245
19.4	27.17 34	73.16 364	44.776 252	68.58 349	57.51 29	24.38 362	20.781 204	55.76 256
		345		338		346		262
29.4	27.51	69.71	45.028	65.20	57.80	20.92	20.985	53.14
6 8.4	27.93 42	66.52 319	45.332 304	62.02 318	58.16 36	17.69 323	21.226 241	50.53 261
18.3	28.43 50	63.68 284	45.681 349	59.10 292	58.57 41	14.77 292	21.498 272	47.99 254
28.3	28.99 56	61.24 244	46.067 386	56.53 257	59.04 47	12.24 253	21.793 295	45.58 241
7 8.3	29.59 60	59.29 195	46.478 411	54.37 216	59.54 50	10.16 208	22.102 309	43.37 221
	63	143	427	170	52	158	318	197
18.3	30.22	57.86	46.905	52.67	60.06	8.58	22.420	41.40
28.2	30.87 65	56.99 87	47.335 430	51.48 119	60.59 53	7.55 103	22.737 317	39.75 165
8 7.2	31.50 63	56.72 27	47.757 422	50.84 64	61.12 53	7.10 45	23.046 309	38.44 131
17.2	32.12 62	57.05 33	48.161 404	50.76 8	61.62 50	7.25 15	23.338 292	37.53 91
27.2	32.68 56	57.96 91	48.535 374	51.25 49	62.09 47	7.98 73	23.610 272	37.02 51
	51	148	336	102	42	129	244	10
9 6.1	33.19	59.44	48.871	52.27	62.51	9.27	23.854	36.92 31
16.1	33.63 44	61.42 198	49.161 290	53.81 154	62.88 37	11.08 181	24.068 214	37.23 69
26.1	33.98 35	63.83 241	49.399 238	55.78 197	63.18 30	13.33 225	24.248 180	37.92 103
10 6.0	34.24 26	66.59 276	49.580 181	58.12 234	63.40 22	15.95 262	24.394 146	38.95 132
16.0	34.39 15	69.59 300	49.703 123	60.74 262	63.54 14	18.83 288	24.504 110	40.27 153
	5	313	63	279	7	303	75	
25.9	34.44	72.72	49.766 6	63.53	63.61 2	21.86	24.579 41	41.80
11 4.9	34.39 5	75.84 312	49.772 50	66.38 285	63.59 9	24.93 307	24.620 9	43.49 169
14.9	34.24 15	78.84 300	49.722 101	69.17 279	63.50 16	27.90 297	24.629 22	45.24 175
24.9	34.01 23	81.60 276	49.621 147	71.80 263	63.34 23	30.67 277	24.607 51	46.99 175
12 4.9	33.69 32	84.01 241	49.474 187	74.15 235	63.11 28	33.12 245	24.556 76	48.66 167
	39	197		199		204		152
14.9	33.30	85.98	49.287	76.14	62.83	35.16	24.480	50.18
24.8	32.86 44	87.43 145	49.067 220	77.70 156	62.51 32	36.72 156	24.380 100	51.50 132
34.8	32.37 49	88.31 88	48.821 246	78.77 107	62.15 36	37.73 101	24.260 120	52.57 107
平位	s 30.789	″ 80.20	s 46.811	″ 73.16	s 60.341	″ 30.21	s 21.943	″ 54.21
sec δ, tan δ	+ 2.661	− 2.465	+ 1.620	− 1.275	+ 2.119	− 1.868	+ 1.074	− 0.391
2 回正中	10 月 19 日		10 月 19 日		10 月 20 日		10 月 20 日	
a b	+ 0.0752	− 0.1446	+ 0.1128	− 0.0747	+ 0.0925	− 0.1087	+ 0.1406	− 0.0227
a′ b′	+ 0.8798	− 0.4753	+ 0.8793	− 0.4763	+ 0.8725	− 0.4886	+ 0.8717	− 0.4900
FK3番號	69		68		72		71	

1944 本初子午線正中時

星名	50 Cass		γ Andr *pr*		α Aris		β Tria	
等級	4.06		2.28		2.23		3.08	
スペクトル型	A2		K0		K2		A5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 1 58	° ′ +72 8	h m 2 0	° ′ +42 3	h m 2 3	° ′ +23 11	h m 2 6	° ′ +34 43
	s	″	s	″	s	″	s	″
1 0.8	37.71 56	76.23 102	27.103 175	47.38 19	60.441 124	53.31 27	12.096 147	26.12 4
10.8	37.15 61	77.25 44	26.928 197	47.57 17	60.317 142	53.04 44	11.949 168	26.16 25
20.8	36.54 64	77.69 15	26.731 212	47.40 52	60.175 155	52.60 61	11.781 183	25.91 54
30.7	35.90 63	77.54 72	26.519 215	46.88 86	60.020 160	51.99 74	11.598 188	25.37 78
2 9.7	35.27 60	76.82 127	26.304 210	46.02 115	59.860 157	51.25 84	11.410 185	24.59 102
19.7	34.67 55	75.55 175	26.094 191	44.87 141	59.703 146	50.41 92	11.225 171	23.57 120
29.7	34.12 55	73.80 216	25.903 164	43.46 158	59.557 124	49.49 93	11.054 147	22.37 133
3 10.6	33.65 47	71.64 248	25.739 124	41.88 170	59.433 95	48.56 91	10.907 113	21.04 138
20.6	33.28 37	69.16 268	25.615 77	40.18 172	59.338 57	47.65 82	10.794 71	19.66 138
30.6	33.04 24	66.48 277	25.538 22	38.46 168	59.281 15	46.83 69	10.723 22	18.28 130
4 9.5	32.92 2	63.71	25.516 37	36.78 155	59.266 33	46.14 51	10.701 30	16.98
19.5	32.94 17	60.95 263	25.553 97	35.23 134	59.299 82	45.63 29	10.731 86	15.82 116
29.5	33.11 29	58.32 241	25.650 157	33.89 110	59.381 132	45.34 4	10.817 141	14.86 96
5 9.5	33.40 42	55.91 211	25.807 213	32.79 79	59.513 178	45.30 23	10.958 191	14.15 71
19.4	33.82 53	53.80 173	26.020 263	32.00 44	59.691 220	45.53 50	11.149 239	13.73 42
29.4	34.35	52.07	26.283	31.56	59.911	46.03	11.388	13.63
6 8.4	34.98 63	50.77 130	26.589 306	31.47 9	60.168 257	46.81 78	11.668 280	13.84 21
18.4	35.67 69	49.94 83	26.930 341	31.75 28	60.455 287	47.85 104	11.979 311	14.38 54
28.3	36.43 76	49.60 34	27.295 365	32.39 64	60.764 309	49.11 126	12.315 336	15.23 85
7 8.3	37.22 79	49.76 16	27.676 381	33.37 98	61.086 322	50.57 146	12.666 351	16.37 114
	81	66	386	130	328	161	358	140
18.3	38.03	50.42	28.062	34.67	61.414	52.18	13.024	17.77
28.2	38.83 80	51.56 114	28.445 383	36.26 159	61.740 326	53.91 173	13.378 354	19.38 161
8 7.2	39.61 78	53.14 158	28.816 371	38.08 182	62.055 315	55.71 180	13.723 345	21.17 179
17.2	40.35 74	55.15 201	29.168 352	40.10 202	62.355 300	57.53 182	14.051 328	23.10 193
27.2	41.04 69	57.53 238	29.494 326	42.28 218	62.633 278	59.33 180	14.356 305	25.11 201
	63	270	295	228	253	175	278	207
9 6.1	41.67	60.23	29.789	44.56	62.886	61.08	14.634	27.18
16.1	42.22 55	63.21 298	30.051 262	46.90 234	63.111 225	62.73 165	14.881 247	29.25 207
26.1	42.69 47	66.39 318	30.276 225	49.26 236	63.305 194	64.27 154	15.095 214	31.29 204
10 6.0	43.07 38	69.73 334	30.462 186	51.60 234	63.467 162	65.67 140	15.275 180	33.26 197
16.0	43.35 28	73.16 343	30.610 148	53.87 227	63.597 130	66.92 125	15.419 144	35.14 188
	18	343	107	217	98	109	109	176
25.9	43.53	76.59	30.717 68	56.04 203	63.695 66	68.01 92	15.528 74	36.90 161
11 4.9	43.60 7	79.97 338	30.785 28	58.07 185	63.761 36	68.93 75	15.602 37	38.51 144
14.9	43.56 4	83.21 324	30.813 12	59.92 164	63.797 4	69.68 58	15.639 2	39.95 124
24.9	43.42 14	86.23 302	30.801 51	61.56 138	63.801 25	70.26 40	15.641 32	41.19 102
12 4.9	43.17 25	88.95 272	30.750 88	62.94 110	63.776 55	70.66 22	15.609 67	42.21 78
	35	234						
14.9	42.82	91.29	30.662	64.04	63.721	70.88	15.542	42.99
24.8	42.37 45	93.19 190	30.538 124	64.82 78	63.639 82	70.92 4	15.443 99	43.51 52
34.8	41.85 52	94.57 138	30.383 155	65.25 43	63.532 107	70.79 13	15.315 128	43.75 24
平位	s 36.363	″ 66 21	s 27.087	″ 43.36	s 60.622	″ 54.86	s 12.154	″ 24.29
sec δ, tan δ	+ 3.263	+ 3.106	+ 1.347	+ 0.902	+ 1.088	+ 0.429	+ 1.217	+ 0.693
2 回正中	10 月 20 日		10 月 21 日		10 月 22 日		10 月 23 日	
a b	+ 0.2558	+ 0.1799	+ 0.1835	+ 0.0520	+ 0.1680	+ 0.0245	+ 0.1775	+ 0.0394
a′ b′	+ 0.8691	− 0.4947	+ 0.8650	− 0.5017	+ 0.8572	− 0.5151	+ 0.8522	− 0.5233
FK3番號	70		73		74		75	

本初子午線正中時

星名 / 等級 / スペクトル型	Br 299 Andr 5.40 K0		55 Cass 6.15 F5, A2		μ Forn 5.24 A0		γ Tria 4.07 A0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 2 9	° ′ ″ +50 48	h m s 2 10	° ′ ″ +66 15	h m s 2 10	° ′ ″ −30 58	h m s 2 13	° ′ ″ +33 35
1 0.8	52.219	30.49	4.36	56.70	26.248	87.14	58.566	22.85
10.8	52.004 215	31.01 52	3.97 39	57.69 99	26.094 154	88.18 104	58.425 141	22.91 6
20.8	51.761 243	31.11 10	3.53 44	58.15 46	25.924 170	88.84 66	58.262 163	22.70 21
30.7	51.500 261	30.78 33	3.07 46	58.05 10	25.744 180	89.09 25	58.083 179	22.22 48
2 9.7	51.231 269	30.03 75	2.60 47	57.42 63	25.561 183	88.93 16	57.896 187	21.49 73
	262	114	45	115	179	56	185	94
19.7	50.969	28.89	2.15	56.27	25.382	88.37	57.711	20.55
29.7	50.726 243	27.42 147	1.73 42	54.67 160	25.216 166	87.41 96	57.539 172	19.43 112
3 10.6	50.517 209	25.68 174	1.37 36	52.68 199	25.069 147	86.07 134	57.388 151	18.19 124
20.6	50.352 165	23.75 193	1.08 29	50.39 229	24.951 118	84.38 169	57.269 119	16.88 131
30.6	50.243 109	21.72 203	0.88 20	47.90 249	24.867 84	82.38 200	57.191 78	15.59 129
	46	204	10	258	42	229	30	124
4 9.5	50.197 −23	19.68	0.78 −1	45.32	24.825 −5	80.09	57.161 −22	14.35
19.5	50.220 93	17.71 197	0.79 11	42.75 257	24.830 52	77.55 254	57.183 76	13.26 109
29.5	50.313 162	15.91 180	0.90 22	40.30 245	24.882 102	74.83 272	57.259 131	12.36 90
5 9.5	50.475 229	14.33 158	1.12 31	38.05 225	24.984 151	71.96 287	57.390 182	11.69 67
19.4	50.704 287	13.05 128	1.43 41	36.09 196	25.135 196	69.01 295	57.572 229	11.30 39
		94		161		296		9
29.4	50.991	12.11	1.84	34.48	25.331	66.05	57.801	11.21 −22
6 8.4	51.329 338	11.55 56	2.32 48	33.28 120	25.569 238	63.14 291	58.072 271	11.43 53
18.4	51.709 380	11.39 16	2.86 54	32.52 76	25.841 272	60.36 278	58.375 303	11.96 53
28.3	52.120 411	11.62 −23	3.46 60	32.22 30	26.141 300	57.76 260	58.704 329	12.79 83
7 8.3	52.550 430	12.25 63	4.08 62	32.40 18	26.461 320	55.43 233	59.049 345	13.90 111
	440	101	63	65	331	201	353	136
18.3	52.990	13.26	4.71	33.05	26.792	53.42	59.402	15.26
28.2	53.428 438	14.62 136	5.35 64	34.13 108	27.126 334	51.79 163	59.754 352	16.82 156
8 7.2	53.855 427	16.29 167	5.98 63	35.65 152	27.455 329	50.58 121	60.097 343	18.55 173
17.2	54.263 408	18.24 195	6.57 59	37.55 190	27.770 315	49.83 75	60.425 328	20.41 186
27.2	54.644 381	20.42 218	7.13 56	39.80 225	28.065 295	49.56 27	60.732 307	22.34 193
	349	237	52	254	268	20	281	199
9 6.1	54.993	22.79	7.65	42.34	28.333	49.76	61.013	24.33
16.1	55.304 311	25.29 250	8.10 45	45.14 280	28.570 237	50.42 66	61.265 252	26.31 198
26.1	55.575 271	27.89 260	8.50 40	48.14 300	28.772 202	51.52 110	61.485 220	28.26 195
10 6.1	55.802 227	30.53 264	8.83 33	51.27 313	28.937 165	52.99 147	61.671 186	30.15 189
16.0	55.984 182	33.17 264	9.08 25	54.47 320	29.063 126	54.77 178	61.824 153	31.94 179
	135	258	18	322	87	202	117	168
26.0	56.119 87	35.75	9.26 11	57.69 316	29.150	56.79	61.941 83	33.62
11 4.9	56.206 39	38.22 247	9.37 2	60.85 304	29.199 49	58.95 216	62.024 47	35.15 153
14.9	56.245 10	40.54 232	9.39 −6	63.89 283	29.210 11	61.17 222	62.071 12	36.53 138
24.9	56.235 59	42.66 212	9.33 15	66.72 256	29.186 24	63.35 218	62.083 24	37.72 119
12 4.9	56.176 106	44.52 186	9.18 22	69.28 222	29.129 57	65.41 206	62.059 57	38.70 98
		155			88	185		76
14.9	56.070	46.07	8.96	71.50	29.041	67.26	62.002	39.46
24.8	55.920 150	47.26 119	8.67 29	73.30 180	28.926 115	68.83 157	61.911 91	39.97 51
34.8	55.730 190	48.07 81	8.32 35	74.63 133	28.788 138	70.08 125	61.790 121	40.22 25
平位	s 51.971	″ 24.69	s 3.445	″ 47.99	s 26.515	″ 68.56	s 58.598	″ 21.58
sec δ, tan δ	+ 1.582	+ 1.226	+ 2.484	+ 2.274	+ 1.166	− 0.601	+ 1.200	+ 0.664
2 回正中	10 月 24 日		10 月 24 日		10 月 24 日		10 月 25 日	
a b	+ 0.1972	+ 0.0690	+ 0.2348	+ 0.1278	+ 0.1318	− 0.0337	+ 0.1778	+ 0.0369
a′ b′	+ 0.8437	− 0.5368	+ 0.8433	− 0.5375	+ 0.8424	− 0.5389	+ 0.8339	− 0.5519
FK3番號	77		76		78		79	

本初子午線正中時

星名 / 等級 / スペクトル型	67 Ceti 5.70 G5		φ Erid 3.78 B8		ϑ Aris 5.69 A0		x Forn 5.37 F5	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m s 2 14	° ′ ″ − 6 40	h m s 2 14	° ′ ″ −51 45	h m s 2 14	° ′ ″ +19 38	h m s 2 19	° ′ ″ −24 3
1 0.8	11.034	56.92	30.455	97.74	60.146	32.29	58.562	88.43
10.8	10.923 111	57.78 86	30.196 259	98.76 102	60.030 116	31.98 31	58.428 134	89.51 108
20.8	10.794 129	58.48 70	29.919 277	99.25 49	59.895 135	31.54 44	58.276 152	90.27 76
30.7	10.654 140	59.01 53	29.631 288	99.20 5	59.745 150	30.98 56	58.113 163	90.68 41
2 9.7	10.507 147	59.35 34	29.343 288	98.61 59	59.588 157	30.33 65	57.943 170	90.73 −5
	145	13	279	111	157	72	168	31
19.7	10.362	59.48 −8	29.064	97.50	59.431	29.61	57.775	90.42
29.7	10.225 137	59.40 30	28.804 260	95.90 160	59.284 147	28.85 76	57.617 158	89.76 66
3 10.6	10.105 120	59.10 54	28.573 231	93.86 204	59.156 128	28.10 75	57.476 141	88.76 100
20.6	10.009 96	58.56 77	28.381 192	91.41 245	59.054 102	27.39 71	57.360 116	87.42 134
30.6	9.945 64	57.79 102	28.235 146	88.62 279	58.988 66	26.77 62	57.277 83	85.78 164
	26		93	308	25	48	45	192
4 9.5	9.919 −16	56.77	28.142	85.54	58.963 −21	26.29	57.232	83.86
19.5	9.935 60	55.52 125	28.110 32	82.25 329	58.984 70	25.99 30	57.232 0	81.68 218
29.5	9.995 105	54.04 148	28.140 30	78.80 345	59.054 117	25.91 −8	57.278 46	79.28 240
5 9.5	10.100 149	52.35 169	28.235 95	75.27 353	59.171 164	26.06 15	57.371 93	76.72 256
19.4	10.249 189	50.50 185	28.393 158	71.75 352	59.335 207	26.46 40	57.512 141	74.05 267
		200	218	345		65	184	274
29.4	10.438	48.50	28.611	68.30	59.542	27.11	57.696	71.31
6 8.4	10.664 226	46.40 210	28.886 275	65.01 329	59.786 244	28.01 90	57.920 224	68.58 273
18.4	10.919 255	44.25 215	29.209 323	61.96 305	60.060 274	29.14 113	58.177 257	65.92 266
28.3	11.199 280	42.12 213	29.572 363	59.23 273	60.358 298	30.47 133	58.462 285	63.39 253
7 8.3	11.493 294	40.04 208	29.967 395	56.88 235	60.670 312	31.96 149	58.767 305	61.07 232
	304	196	414	189	321	162	316	207
18.3	11.797	38.08	30.381	54.99	60.991	33.58	59.083	59.00
28.2	12.101 304	36.29 179	30.805 424	53.59 140	61.310 319	35.27 169	59.402 319	57.26 174
8 7.2	12.398 297	34.73 156	31.226 421	52.74 85	61.623 313	37.01 174	59.717 315	55.89 137
17.2	12.683 285	33.42 131	31.634 408	52.45 29	61.921 298	38.73 172	60.021 304	54.92 97
27.2	12.949 266	32.41 101	32.018 384	52.73 −28	62.199 278	40.41 168	60.307 286	54.39 53
	244	69	352	85	256	159	262	9
9 6.1	13.193	31.72	32.370	53.58	62.455	42.00	60.569	54.30 −34
16.1	13.410 217	31.34 38	32.679 309	54.96 138	62.683 228	43.47 147	60.803 234	54.64 76
26.1	13.598 188	31.29 −5	32.941 262	56.82 186	62.883 200	44.81 134	61.005 202	55.40 113
10 6.1	13.756 158	31.53 24	33.148 207	59.08 226	63.053 170	46.00 119	61.174 169	56.53 144
16.0	13.882 126	32.04 51	33.300 152	61.66 258	63.192 139	47.02 102	61.308 134	57.97 169
	96	74	92	280	107	85	98	
26.0	13.978 65	32.78	33.392	64.46	63.299	47.87	61.406	59.66
11 4.9	14.043 36	33.69 91	33.427 35	67.36 290	63.376 77	48.57 70	61.470 64	61.52 186
14.9	14.079 −6	34.73 104	33.405 22	70.25 289	63.423 47	49.10 53	61.498 −28	63.47 195
24.9	14.035 −21	35.84 111	33.329 76	73.02 277	63.438 −15	49.48 38	61.494 4	65.42 195
12 4.9	14.064 48	36.97 113	33.204 125	75.55 253	63.424 14	49.70 22	61.458 36	67.30 188
		110	170	220	44	8	66	173
14.9	14.016	38.07	33.034	77.75	63.380	49.78 −6	61.392	69.03
24.8	13.943 73	39.10 103	32.826 208	79.54 179	63.308 72	49.72 21	61.299 93	70.54 151
34.8	13.847 96	40.01 91	32.586 240	80.86 132	63.210 98	49.51	61.182 117	71.79 125
平位	s 11.293	″ 45.58	s 30.529	″ 74.51	s 60.298	″ 35.20	s 58.778	″ 71.84
sec δ, tan δ	+ 1.007	− 0.117	+ 1.616	− 1.269	+ 1.062	+ 0.357	+ 1.095	− 0.447
2 回正中	10 月 25 日		10 月 25 日		10 月 25 日		10 月 26 日	
a b	+ 0.1490	− 0.0065	+ 0.1065	− 0.0705	+ 0.1665	+ 0.0198	+ 0.2696	− 0.0244
a′ b′	+ 0.8334	− 0.5526	+ 0.8327	− 0.5538	+ 0.8315	− 0.5556	+ 0.8192	− 0.5735
FK3番號	80		82		81		83	