

ASTRONOMICAL EPHEMERIS
of
Geocentric Places of Planets
for
1956

(Indian Standard Time observed throughout)

Published by
Shree Jiwaji Observatory, Ujjain
with the sanction of Education Department
Madhya Bharat

Price Rupee One and Annas Four Only

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PREFACE

The heliocentric places of Jupiter, Saturn, Uranus and Neptune were obtained from Newcomb and Hill's Tables and these were later converted into geocentric longitudes and latitudes. The geocentric places of Mercury, Venus and Mars were computed *directly* from their respective elements and this is why their heliocentric co-ordinates have now been omitted from the following pages.

Owing to the uncertainty in the elements of Pluto, the positions of this planet cannot be taken as strictly correct. It is estimated that the maximum error in its longitude will hardly exceed five minutes of arc.

As a precaution against accidental errors, the final results were differenced and all the doubtful cases were carefully scrutinised.

It was decided to give all the headings both in English and in Hindi from this year, but owing to certain unforeseen difficulties this idea had to be postponed to next year.

The timings of Lunar and Solar eclipses (visible in India) as well as those of Moonrise for each day of the year and for the Latitudes 10°, 20° and 30°N. are being given from this year, Full elements of the eclipses will be given from next year

Thanks are due to Shree G. C. Natarajan, Superintendent, Stationery and Printing, Madhya Bharat, Gwalior, for the personal interest taken by him while this Ephemeris was in Press.

UJJAIN,
1st December 1955



D. K. BELEKAR,
Superintendent,
S. I. Observatory.

Mean Places of Principal Stars on 1st January 1956

Names.	Stars	Mag	R. A.		Decl.	Long.		Lat.	
			H.	M.		°	'	°	'
♄ Andromeda	U. Bhadra.	2.1	0	6	+ 28 51	13	41	+ 25	41
♃ Pegasi ..	U. Bhadra.	2.8	0	11	+ 14 56	8	33	+ 12	36
♆ Piscium ..	Revati.	5.6	1	11	+ 7 21	19	16	- 0	16
♁ Eridani ..	Achernar	0.6	1	36	- 57 28	344	43	- 59	23
♏ Polaris ..	Dhruva.	2.1	1	52	+ 89 4	89	48	+ 66	6
♈ Arietis ..	Ashvini.	2.7	1	52	+ 20 36	33	21	+ 8	29
♈ Arietis ..	Ashvini.	2.2	2	5	+ 23 15	37	3	+ 9	58
♈ Arietis ..	Bharani.	3.7	2	47	+ 27 5	47	35	+ 10	27
♁ Persei ..	Algol.	Var	3	5	+ 40 47	55	33	+ 22	25
♈ Tauri ..	Krittika.	3.0	3	45	+ 23 58	59	9	+ 4	6
♈ Tauri ..	Rohini.	1.1	4	33	+ 16 25	69	11	- 5	28
♁ Orionis ..	Rigel.	0.3	5	12	- 8 15	76	13	- 31	8
♈ Aurigae ..	Capella.	0.2	5	13	+ 45 57	81	15	+ 22	52
♁ Orionis ..	Mrigashirsh	4.5	5	33	+ 9 54	83	6	- 13	22
♁ Orionis ..	Ardra.	0.9	5	53	+ 7 24	88	9	- 16	2
♁ Carinae ..	Agastya.	0.9	6	23	- 52 40	104	21	- 75	50
♁ Canis Majoris	Vyacha.	1.6	6	42	- 16 39	103	10	- 39	37
♁ Geminorum	Punarvasu	2.0	7	32	+ 31 59	108	38	+ 10	6
♁ " "	Punarvasu	1.2	7	43	+ 28 8	112	37	+ 6	41
♁ Cancri ..	Pushya	4.1	8	42	+ 18 19	128	6	+ 0	6
♁ Hydrae ..	Ashlesha.	3.5	8	44	+ 6 34	181	44	- 11	7
♁ Cancri ..	Ashleha	1.3	10	6	+ 12 11	149	13	+ 0	28
♁ Leonis ..	Magha.	2.6	11	12	+ 20 46	160	42	+ 14	20
♁ Leonis ..	Purva.	2.2	11	47	+ 14 49	171	0	+ 12	16
♁ Leonis ..	Uttara.	2.8	12	13	- 17 18	184	0	- 17	10
♁ Corvi ..	Hasta.	3.1	12	28	- 16 16	192	50	- 12	12
♁ " "	Hasta.	1.2	13	23	- 10 56	203	14	- 2	3
♁ Virginis ..	Chitra.	0.2	14	14	+ 19 25	217	43	+ 5	38
♁ Bootes ..	Swati.	2.9	14	48	- 15 52	224	28	+ 0	20
♁ Libra ..	Vishakha.	2.5	15	58	- 22 30	241	57	- 1	59
♁ Scorpii ..	Anuradha.	1.2	16	27	- 26 20	249	5	- 4	34
♁ Scorpii ..	Jyeshtha.	1.7	17	31	- 37 4	263	58	- 13	47
♁ Scorpii ..	Mool.	2.8	18	18	- 29 51	273	58	- 6	28
♁ Sagittarus..	P. Shadha.	2.1	19	4	- 27 44	284	13	- 5	5
♁ Sagittarus..	U. Shadha.	0.1	18	35	+ 34 45	283	44	+ 57	46
♁ Lyrae ..	Abhijit	0.9	19	49	+ 8 45	301	9	+ 29	18
♁ Aquillae ..	Shravana.	3.7	20	35	+ 14 28	315	44	+ 31	57
♁ Delphini ..	Dhanistha.	3.8	20	38	+ 15 45	316	46	+ 33	2
♁ Delphini ..	Dhanistha.	3.8	22	50	- 7 49	340	58	- 0	23
♁ Aquarii ..	Shatabhij.	2.6	23	3	+ 14 58	352	52	+ 19	24
♁ Pegasi ..	P. Bhadra.	2.6	23	2	+ 27 51	358	46	+ 31	8
♁ Pegasi ..	P. Bhadra.								

EPHEMERIS

OF

Planets' Places for 1956

INTRODUCTION

THE places of the Sun, Moon and the Planets given in the following pages are *Sayan* and are true for the true equinox of each day. They are given for 12 o'clock noon Indian Standard Time (I.S.T.) which is 5½ hours in advance of Greenwich Mean Time but, for convenience, the *Sidereal Time* is given for the *Mean Noon, Ujjain Local Time*.

Nirayana places are obtained by subtracting the *Ayanam-shas* from the *Sayan* places.

It should be noted that the *Tithis* and Aspects are the same both in the *Sayan* and the *Nirayana* systems.

EXPLANATION OF SYMBOLS

Planets.	Signs.	Aspects.	
☉ Sun.	♈ Aries.	♄ Conjunction	= 0°
☾ Moon.	♉ Taurus.	♁ Semi-Sextile	= 30°
♃ Pluto.	♊ Gemini.	♆ Semi-Quintile	= 36°
♆ Neptune.	♋ Cancer.	♁ Semi-Square	= 45°
♅ Herschel (Uranus).	♌ Leo.	* Sextile	= 60°
♄ Saturn.	♍ Virgo.	☽ Quintile	= 72°
♃ Jupiter.	♎ Libra.	☐ Square	= 90°
♂ Mars.	♏ Scorpio.	♁ Trine	= 120°
♀ Venus.	♐ Sagittarus.	☐ Sesqui-quadrant	= 135°
☿ Mercury.	♑ Capricornus.	♁ Bi-quintile	= 144°
♁ Earth.	♒ Aquarius.	♁ Quincunx	= 150°
♃ Rahu.	♓ Pisces.	♁ Opposition	= 180°

JANUARY, 1956 S. J. O. UJJAIN

Date	Day	Sidereal Time		☉			♃			Midnight	ψ
		H.	M.	Long.	Decl.	Long.	Lat.	Decl.	♃		
1	Su.	18	39 39	9 49	13	23 5	23 23	4 S 49	9 N 11	0 32	0 m 9
2	M.		43 36	10 50	20	0	7 40	5 11	3 53	14 34	10
3	Tu.		47 32	11 51	29	22	55 21	29 14	1 S 26	28 9	11
4	W.		51 29	12 52	37	49	4 49	4 6	30	11 16	12
5	Th.		55 26	13 53	46	43	17 43	4 31	11 7	24 59	13
6	F.		59 22	14 54	55	37	0 15	3 49	15 9	6 m 23	14
7	S.	19	3 19	15 56	5	30	12 30	2 59	18 25	18 30	15
8	Su.		7 15	16 57	16	22	24 31	1 20	51 22	5 17	16
9	M.		11 12	17 58	27	14	6 24	0 58	22 20	12 7	17
10	Tu.		15 8	18 59	38	6	18 12	0 N 6	49 23	5	17
11	W.		19 5	20 0	49	21	57 29	58 1	10 16	5 52	18
12	Th.		23 2	21 1	58	48	11 46	2 11	20 45	17 42	19
13	F.		26 58	22 3	7	38	23 38	3 7	14 19	29 36	19
14	S.		30 55	23 4	16	28	5 35	54 15	6 11	37	20
15	Su.		34 51	24 5	24	18	17 39	4 32	11 14	23 45	21
16	M.		38 48	25 6	31	7	29 51	5 7	6 53	6 2	
17	Tu.		42 44	26 7	37	20	56 12	5 9	2 13	18 31	
18	W.		46 41	27 8	44	44	24 48	7 2	N 38	1 13	22
19	Th.		50 37	28 9	50	32	7 37	4 49	7 27	14 10	
20	F.		54 35	29 10	55	20	20 43	16 12	2 27	25	
21	S.		58 31	0 12	0	7	4 7	3 28	16 8	11 0	24
22	Su.	20	2 27	1 13	5	19	54 17	53 2	28 19	29 24	24
23	M.		6 24	2 14	6	40	2 11	1 16	21 49	9 17	24
24	Tu.		10 20	3 15	7	26	16 32	0 S 12	44 23	56 24	24
25	W.		14 17	4 16	8	12	1 21	1 21	6 8	52	25
26	Th.		18 13	5 17	9	18	57 16	23 2	35 19	52 23	25
27	F.		22 10	6 18	7	42	1 30	3 39	16 16	9 1	25
28	S.		26 6	7 19	5	27	16 32	4 27	11 38	23 56	25
29	Su.		30 3	8 20	2	11	1 20	5 7	6 22	8 33	25
30	M.		33 59	9 20	56	17	55 15	4 5	0 54	22 46	25
31	Tu.		37 56	10 21	50	39	19 46	4 57	4 S 2	6 31	25

Date	♄		♅		♆		♇		♈	
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.
1	1 N 43	9 S 56	0 N 35	20 N 29	1 N 58	1 S 0	1 N 1	12 N 1	0 N 36	17 S 36
3				30		2		3	35	57
5		57		31		4	2	6	34	18 17
7				32		6		9	33	37
9		58		33		59		3	31	57
11				34		11		16	30	19 16
13				35		13		4	20	29 34
15		59		37		15		24	28	52
17			36	38	2	0		5	28	27 20 9
19	44			39		19		32	25	25
21				40		21	6	37	24	41
23				41		23		41	23	56
25		10 0		42	1	24		46	21	21 11
27				43		25	7	51	20	25
29				45		27		57	19	38
31		9 59		46		28	8 13	2	17	51

EPHEMERIS JANUARY, 1956 3

Date	Longitudes						Lunar Aspects															
	♄	♅	♆	♇	♈	♉	☉	☽	♁	♂	♃	♅	♇	♉	♋	♍	♏	♊	♌	♎	♐	
1	1 9	28 m 55	1 11	21 m 36	9 53	25 19	☉	*	☽	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
2	R 7	29 1	R 8	22 16	11 26	50 50	☽	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
3		5 27		5 55	12 22	28 21	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
4		2 13		2 23	34 13	36 29	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
5		0 18	0	58 24	13 14	50 18	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
6	0	57 24		55 52	16 4	2 43	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
7		5 30		51 25	31 17	18 4	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
8		52 35		47 26	11 18	32 5	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
9		50 41		43 50	19 46	6 42	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
10		47 47		38 27	29 21	0 7	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
11		45 52		34 28	9 22	14 9	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
12		42 57		29 48	23 28	10 2	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
13		40 0 3		25 29	27 24	41 57	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
14		37 8		20 0 7	7 25	55 11	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
15		34 13		15 46	27 9	12 25	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
16		32 18		9 1 25	28 23	55 55	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
17		29 23		4 2 42	36 3	16 26	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
18		27 28	19 58	44 0	50 50	26 26	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
19		24 33		53 3 23	2 3	R 24	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
20		21 38		47 4 2 3	17 11		☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
21		19 43		41 42	4 0	12 47	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
22		16 47		35 5 21	5 43 11		☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
23		13 52		28 6 6 57	11 24		☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
24		11 56		22 40	8 10	10 28	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
25		8 1 1		15 7 19	9 23	9 24	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
26		6 5		9 58	10 36	8 14	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
27		3 10		2 8 38	11 49	7 0	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
28	0	0 14	28 55	9 17	13 2	5 44	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
29	29 58		18 48	56	14 15	4 29	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
30		55 22		41 10	36 15	28 3	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾
31		53 26		34 11	15 16	41 2	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾	☾

Date	☽		☾		Mean ☽	Date	Time	Phenomena
	Lat.	Decl.	Lat.	Decl.				
1	1 S 46	19 S 29	2 S 23	S 5	16 7	5 3	2	☉ at Perihelion.
3		18 48	1 54	22 21	15 5	5 4	17	☽ on Equator.
5				43 21	33 52	10 9	45	☽ at Last Quarter.
7	45 17	19 4	28 20	40 46	11 14	0	0	☽ at ☽
9	44 16	32 10	19 44		39 13	8 32		☽ at Apogee.
11		48 15	43 0	48 18	47 33	14 23	12	New Moon Decl. 18° S 40
13		41 14	53 0	22 17	50 27	17 22	58	☽ at ☽
15		39 9	1 0 N	8 16	57 20	19 14	0	☽ on Equator.
17		36 13	7 42	10 14	20 14			☽ at Perihelion
19		34 12	12 1 18	15 33		7 21	4 25	Heli. setting of ☽ in West
21		31 11	16 55			1 21	7 17	☽ at First Quarter.
23		2 10	9 2 30	14 48	14 55	24 11	41	☉ enters =
25		24 9	21 59	15 1		48 26	18 0	☽ at ☽
27		20 8	21 3 21	17 42	27 20	13		☽ at Perigee
29		15 7	21 34	41 36	30 16	2		Full Moon Decl. 17° N 52
31		11 6	21 36	16 10		29 31		☽ on Equator.
								Heli. rising of ☽ in East.

Date	Day	Sidereal Time		☉		☽		Midnight	ψ
		H. M. S.	Long.	Decl.	Long.	Lat.	Decl.		
1	W.	20 41 53	11=22 44	17S 22 13	Δ 14 4S 32 9S 24	19Δ 44	0m 26		
2	Th.	45 49 12	23 38	16 26 15	3 52 13 44	2m 33	R 26		
3	F.	49 46 13	24 29	16 48 8m 51	3 17 21	14 59	25		
4	S.	53 42 14	25 19	31 21 7	2 7 20	5 27	7 25		
5	Su.	57 39 15	26 9	13 3 7	1 6 21 51	9 3	R 25		
6	M.	21 1 35	16 27	0 15 55 14 58	0 2 22 38	20 51	25		
7	Tu.	5 32 17	27 50	36 26 4	1 N 0 24	2 5 8	25		
8	W.	9 29 18	28 37	18 8 31	2 0 21 10	14 26	25		
9	Th.	13 25 19	29 24	14 59 20 21	5 5 19 1	26 20	24		
10	F.	17 2 20	30 11	40 2=19	3 43 16 2	8=22	24		
11	S.	21 18 21	30 54	20 14 25	4 21 12 21	20 34	24		
12	Su.	25 15 22	31 36	1 26 42	4 7 8 7	2 5 37	23		
13	M.	29 11 23	32 18	13 41 9 11	5 1 3 29	15 30	23		
14	Tu.	33 8 24	33 0	21 21 50	4 59 1 N 21	28 15	23		
15	W.	37 4 25	33 39	0 4 7 40	4 3 6 11	11 11	22		
16	Th.	41 1 26	34 16	12 -0 17 42	3 12 10 50	24 19	21		
17	F.	44 57 27	34 52	19 0 56	3 27 15 2	7 8 40	21		
18	S.	48 54 28	35 25	11 58 14 23	2 30 18 32	21 14	20		
19	Su.	52 50 29	35 57	37 28 4	1 23 21 5	5 11 2	19		
20	M.	56 47 0	36 27	16 12 0	0 10 22 24	19 6	19		
21	Tu.	22 0 44	1 36 54	10 54 26 12	1 S 5 18	3 26	18		
22	W.	4 40 2	37 21	33 10 23 39	2 17 20 45	17 58	17		
23	Th.	8 37 3	37 45	11 25 17	3 21 17 48	2 40	17		
24	F.	12 33 4	38 8	9 49 10 2	4 11 13 42	17 24	16		
25	S.	16 30 5	38 29	27 24 46	4 5 8 47	2 3	15		
26	Su.	20 27 6	38 48	4 9 20	5 0 3 26	16 36	14		
27	M.	24 23 7	39 6	8 42 23 39	4 55 2 S 0	0 37	13		
28	Tu.	28 20 8	39 21	20 7 36	3 3 7 12	14 21	13		
29	W.	32 16 9	36 36	7 57 21 6	3 56 11 53	27 38	13		

Date	ψ		♈		♉		♊		♋	
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.
2	1N 44	1S 59	0 N 36	20N 47	2 N 2	18S 29	1 N 8	13 N 7	0 N 16	22S 3
4				48		30		13		14
6	45			49		31	9	18		13
8				50		32		4		11
10				51	3	33		29		10
2		58		52		34		35		8
14				53		35		41	23	6
16		57		54			10	46		4
18				55	4	36		52		3
20	46	56	35					57		1
22				56	5	37	14	3	0 S 1	23
24		55		57				8	0 3	27
26				58	6	38		14	5	31
28		54		59				19	7	33

Date	Longitudes						Lunar Aspects							
	♈	♉	♊	♋	♌	♍	☉	☽	♈	♉	♊	♋	♌	♍
1	29	50	1 30	28	27	11 55	17 53	1 7	Δ		Δ	Δ	*	π
2	R 48		34	R 19	12	34 19	6	OR 12	δ	□	Δ	*	Δ	□ *
3	45		37		12 13	13 20	19 29	25	□		Δ	Δ	Δ	
4	43		41		5	53 21	31 28	46			Δ	Δ	Δ	
5	40		44	27	57 14	32 22	44	16	Δ	Δ	□		*	□
6	38		48		49 15	11 23	56 27	54	*	Δ	□	Δ	□	Δ
7	35		51		42	51 25	8		*	Δ	Δ	Δ	□	Δ
8	33		54		34 16	30 26	20	35	Δ	Δ	Δ	Δ	□	Δ
9	30		58		26 17	10 27	32	D 37	Δ	Δ	Δ	Δ	*	□
10	28	2	1		18	49 28	44	46	□	Δ	Δ	Δ	*	□
11	25		4		11 18	28 29	56 28	1		Δ	Δ	Δ	*	□
12	23		7		3 19	8	1 7	8	23	Δ	Δ	Δ	□	□
13	21		9	26	55	47 2	20	50	□	Δ	Δ	Δ	□	□
14	19		12		47 20	27 3	32	29 24	□	Δ	Δ	Δ	□	□
15	16		15		39 21	6 4	43 0	1	Δ	Δ	Δ	Δ	□	□
16	14		17		31	45 5	54	41	Δ	Δ	Δ	Δ	□	□
17	12		20		23 22	25 7	6	1 27	*	Δ	Δ	Δ	□	□
18	10		22		15 23	4 8	17	2 16	□	Δ	Δ	Δ	□	□
19	7		24		7	44 9	28 3	9	□	Δ	Δ	Δ	□	□
20	5		27	25	59 24	23 10	39 4	4	□	Δ	Δ	Δ	*	□
21	3		29		51 25	2 11	50 5	4	Δ	Δ	Δ	Δ	□	□
22	1		31		44	42 13	1 6	4	Δ	Δ	Δ	Δ	□	□
23	28	59	32		36 26	21 14	11 7	8	□	Δ	Δ	Δ	□	□
24	28	57	34		28 27	0 15	22 8	14	□	Δ	Δ	Δ	□	□
25	55		36		20	40 16	32 9	22	*	Δ	Δ	Δ	□	□
26	53		37		13 28	19 17	42 10	33	Δ	Δ	Δ	Δ	□	□
27	51		39		5	58 18	52 11	45	Δ	Δ	Δ	Δ	□	□
28	50		40	24	57 29	3 20	2 12	59	□	Δ	Δ	Δ	□	□
29	48		41		50 0	17 21	12 14	15	□	Δ	Δ	Δ	□	□

Date	♈		♉		Mean	Date	Time H. M.	Phenomena.
	Lat.	Decl.	Lat.	Decl.				
2	1 S 6	5 S 19	3 N 30	16 S 42	14 23	3 21	42	Δ at Last Quarter.
4	0 4	17	17 17	12		6 12	46	Δ at ☉
6	0 55	3 15	2 58	40		10 3	1	0 Δ at Apogee.
8	49	2 12	37 18	5		4 12	3	6 New Moon Decl. 9° S 31'
10	43	1 9	14	26 13		58 12	16	30 ♀ on Equator.
12	36	0 6	1 50	42		51 14	5	18 Δ on Equator
14	30	0 N 57	26	53		45 19	14	51 Δ at First Quarter.
16	23	2 0	2 19	0		38 21	36	☉ enters ♋
18	16	3 3	0 40	1		32 20	15	12 Δ at ☽
20	9	4 5	18 18	57		26 21	12	0 ☽ at ☽
22	1	5 7	0 S 2	48		19 22	7	12 ♀ at ☽
24	0 N 7	6 9	21	33		13 22	18	0 ♀ at ☉
26	15	7 10	39	13		7 23	22	0 Δ at Perigee.
28	23	8 11	55	17	48	0 26	7	14 Full Moon Decl. 4° N 30'
						27 3	10	Δ on Equator.

6		MARCH 1956						S. J. O. UJJAIN											
Date	Day	Sidereal Time			☉		☽		Midnight	ψ									
		H.	M.	S.	Long.	Decl.	Long.	Lat.	Decl.		D								
1	Th.	22	36	13	10	39	47	7 S 34	4 m 10	3 S 8	15 S 52	10 m 30	0 m 12						
2	F.		40	9	11	39	58			11 16	50	2 11 18	58	23	0	R	11		
3	S.		44	6	12	40	8	6 48	29	9	1	10 21	7	5 7	11		10		
4	Su.		48	2	13	40	14	25	11	13	0	7 22	14	17	9		9		
5	M.		51	58	14	40	20	2	23	6	0 N 56	20	28	59			8		
6	Tu.		55	55	15	40	23	5	39	4	53	1	56	21	26	10	47	7	
7	W.		59	52	16	40	29		16	16	42	2	50	19	35	22	38	6	
8	Th.	23	3	49	17	40	27	4	52	28	35	3	38	16	53	4	37	5	
9	F.		7	45	18	40	27		29	10	38	4	17	13	27	16	46	3	
10	S.		11	42	19	40	24		5	22	54		44	9	25	29	9	2	
11	Su.		15	38	20	40	20	3	42	5	23		58	4	54	11	46	1	
12	M.		19	35	21	40	14		18	18	8		58	0	7	24	38	0	
13	Tu.		23	31	22	40	6	2	55	1	7		43	4	N 46	7	44	29	59
14	W.		27	28	23	39	56		31	14	20		12	9	32	21	2		58
15	Th.		31	25	24	39	45		7	27	44	3	27	13	53	4	30		56
16	F.		35	21	25	39	33	1	44	11	17	2	30	17	35	18	9		55
17	S.		39	18	26	39	19		20	25	0	1	23	20	22	1	55		54
18	Su.		43	14	27	38	56	0	56	8	50	0	11	21	57	15	49		52
19	M.		47	11	28	38	35		32	22	48	1	S	3	22	12	29	50	51
20	Tu.		51	7	29	38	13		9	6	53	2	14	21	3	13	58		50
21	W.		55	4	0	37	51	0	N 15	21	4	3	16	18	34	28	13		48
22	Th.		59	0	1	37	30		39	5	21	4	7	14	56	12	30		47
23	F.	0	2	57	2	36	47	1	2	19	39	5	43	10	27	26	47		45
24	S.		6	53	3	36	15		26	3	55	1	5	24	11	0			44
25	Su.		10	50	4	35	41		50	18	4		0	0	7	25	3		43
26	M.		14	47	5	35	3	2	13	2	1	4	41	S 6	8	51			41
27	Tu.		18	43	6	34	24		37	15	41	7	9	58	22	20			40
28	W.		22	40	7	33	47	3	0	29	0	3	19	14	14	5	30		38
29	Th.		26	36	8	33	0		23	11	59	2	22	17	42	18	38		37
30	F.		30	33	9	32	14		47	24	27	1	20	20	13	0	46		35
31	S.		34	29	10	31	28	4	10	6	56	0	15	21	43	12	58		34

Date	ψ		♈		♉		♊		♋			
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.		
1	1N 46	9S 53	0N 35	20 N 59	2 N 6	18 S 38	1 N 10	14N 24	0 S 9	23 S 35		
3		52		21	0			29	11	36		
5		52						11	13	37		
7		51			1		10	38	15	36		
9		50			2	8		42	17	35		
11	47	49						47	19	33		
13		48			3	9	37		51	31		
15		47						55	24	27		
17		46						58	26	23		
19		45			4			15	2	19		
21		44				10	36		5	13		
23		43					35		8	7		
25		42			5		34		11	1		
27		41					33		13	39	22	53
29		40				11	32		15	42	45	
31		39					31		17	44	36	

7		EPHEMERIS										MARCH 1956										7					
Date	Longitudes										Lunar Aspects																
	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	☉	☽	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃		
1	28	46	2	43	24	43	0	57	22	22	15	32	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃		
2	R	44		44		35	1	35	23	32	16	51	Δ	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
3		43		45		28	2	15	24	41	18	12		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
4		41		45		21		55	25	50	19	34	□	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
5		39		46		14	3	34	26	59	20	57		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
6		38		47		7	4	13	28	8	22	22		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
7		36		47		0		52	29	17	23	48	*	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
8		35		48	23	53	5	32	0	8	26	25	15	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
9		33		48		47	6	11	1		34	26	44		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃
10		32		48		40		50	2		42	28	14		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃
11		31		49		34	7	29	3	51	29	45		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
12		30		49		27	8	9	4	58	1	18	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃		
13		28		49		21		48	6	6	2	51		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
14		27	R	48		15	9	27	7	14	4	26		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
15		26		48		9	10	6	8	21	6	2		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
16		25		48		4		43	9	28	7	39	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃		
17		24		47	22	58	11	25	10	35	9	18	*	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
18		23		47		53	12	4	11	42	10	57		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
19		22		46		47		43	12	49	12	38		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
20		21		45		42	13	22	13	55	14	20		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
21		20		44		37	14	11	15	16	4			♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
22		19		43		32		40	16	7	17	49	Δ	♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
23		19		42		28	15	19	17	12	19	34		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
24		18		41		23		58	18	18	21	22		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
25		17		40		19	16	38	19	23	23	10		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
26		17		39		15	17	16	20	28	25	0		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
27		16		37		11		55	21	32	26	51		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
28		16		36		7	18	34	22	36	28	44		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
29		16		34		3	19	13	23	40	0	38		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
30		15		32		0		52	24	44	2	33		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	
31		15		30	21	57	20	31	25	47	4	29		♁	♂	♆	♄	♃	♂	♆	♄	♃	♂	♆	♄	♃	

Date	♀		♁		Mean Ω	Date	Time H. M.	Phenomena					
	Lat.	Decl.	Lat.	Decl.									
1	0N 31	9N 11	1 S 10	17 S 18	12	7	54	♁ at Aphelion.					
3		39 10	10	24 16	42		48	♁ at ♁					
5		48 11	8	36	2		41	♁ at Last Quarter.					
7		56 12	6	46 15	16		35	♁ at Apogee.					
9	1	5	13	2	55	14	25	♁ on Equator					
11		13		57	2	3	13	29	22	12	19	4	New Moon, Decl. 1° N 18'
13		22	14	51		9	12	28	16	15			Heli. setting of ♁ in East.
15		31	15	43		13	11	22	9	18	15	34	♁ at ♁
17		39	16	35		15	10	11	3				

Date	Day	Sidereal Time			☉			♃			Midnight		ψ									
		H.	M.	S.	Long.	Decl.	Long.	Lat.	Decl.	D	D											
1	Tu.	2	36	43	10	51	16	15	N	5	20	39	3	N	32	18	S	22	26	34	28	44
2	W.		40	39	11	49	27		23	2	29	4	15	15	S	28			8	28		42
3	Th.		44	36	12	47	38		41	14	26	4	11	48	11	55			20	29		41
4	F.		48	32	13	45	48		58	26	33	5	8	7	50			2	43		39	
5	S.		52	29	14	43	55	16	16	8	54	15	3	22	15	14			15	14		38
6	Su.		56	25	15	42	3		33	21	34	6	1	N	21			28	5		36	
7	M.	3	0	22	16	40	5		49	4	36	4	42	6	9			11	18		34	
8	Tu.		4	18	17	38	7	17	6	18	1		2	10	48			24	54		33	
9	W.		8	15	18	36	10		22	1	48	3	7	15	1			8	51		31	
10	Th.		12	12	19	34	9		38	15	55	1	59	18	30			23	6		30	
11	F.		16	8	20	32	9		53	0	18	0	43	20	55			7	35		28	
12	S.		20	5	21	30	6	18	9	14	51	0	S	38	21	58			22	10		27
13	Su.		24	1	22	28	1		24	29	29	1	56	31				6	47		25	
14	M.		27	58	23	25	56		38	14	5	3	7	19	36			21	20		24	
15	Tu.		31	54	24	23	50		52	28	35	4	5	16	27			5	44		23	
16	W.		35	51	25	21	37	19	6	12	54	4	7	12	22			19	57		21	
17	Th.		39	47	26	19	30		20	26	59	5	11	7	39			3	55		20	
18	F.		43	44	27	17	14		33	10	51	16	2	37	17	39			17	39		18
19	S.		47	41	28	14	59		47	24	27	4	2	S	27			1	2		17	
20	Su.		51	37	29	12	43		59	7	48	4	35	7	18			14	21		16	
21	M.		55	34	0	10	25	20	12	20	54	3	52	11	45			27	20		14	
22	Tu.		59	30	1	8	6		24	3	46	2	59	15	34			10	5	25	13	
23	W.		3	27	2	5	44		35	16	24	1	57	18	37			22	37		12	
24	Th.		7	23	3	3	23		46	28	50	0	51	20	4			4	57		10	
25	F.		11	20	4	0	59		57	11	5	0	N	17	21	50			17	7		8
26	S.		15	16		58	33	21	8	23	10	1	23		53	29	9				7	
27	Su.		19	13	5	56	7		18	5	7	2	25	20	56			11	4		6	
28	M.		23	10	6	53	40		28	17	0	3	20	19	3			22	55		4	
29	Tu.		27	6	7	51	11		37	28	50	4	6	16	23			4	46		3	
30	W.		31	3	8	48	44		47	10	42	4	2	13	2			16	40		2	
31	Th.		34	59	9	46	13		55	22	38	5	6	9	9			28	41		1	

Date	ψ		♁		♂		♄		♅																					
	Lat.	Decl.																												
2	1	N	47	9	S	20	0	N	34	21	N	0	2	N	14	18	S	8	1	N	5	15	N	16	1	S	36	19	S	2
4				19							6					13				40	18		45							
6				18			20		59		4				12				44			27								
8				17					58		3				9				48			10								
15				16							1		4		7				52	17		51								
12				15				57		17	59				4				56			33								
14				14				56			57				0	2			0			15								
16				13				55			56				14	57			4	16		56								
18				12				54			54			3	53				8			37								
20				11				53			52				49				12			18								
22				10				52			50				45				17	15		59								
24								51			49				41				21			40								
26				9				50			48			2	37				26			20								
28				8				49			46				32				31			1								
30				7		33		48			44				28				35	14		42								

Date	Longitudes								Lunar Aspects																						
	♁	♂	♄	♅	♆	♇	♈	♉	☉	☽	☾	☾	☾	☾	☾	☾	☾														
1	28	32	0	7	55	21	46	10	18	25	11	0	1	32																	
2		33		R	51		49		56		47		2	35																	
3		35			46		51		11		33		26	32																	
4		36			42		54		12		10		27	17																	
5		38			38		58				47		28	1																	
6		40			34	22		1	13		24		44	6																	
7		41			30			4	14		2	29	26																		
8		43			25			7		38	0	ω	7	7	15																
9		45			21			12	15		12		47	44																	
10		46			17			16		52	1	26	8	8																	
11		48			12			20	16		29	2	3	27																	
12		50			8			24	17		5		39	40																	
13		52			4			29		42	3	14	49																		
14		54	29	m	59			33	18		18		48	53																	
15		56			55			38		54	4	20	R	51																	
16		58			50			44	19		30		51	45																	
17	29	0			46			49	20		7	5	20	35																	
18		2			41			53		42		48	20																		
19		4			37			59		18		6	14	1																	
20		7			32	23		5	21		54		39	7	39																
21		9			28			11	22		29		54	13																	
22		11			23			16	23		5	7	22	6	45																
23		14			19			22		40		42	14																		
24		16			14			28	24		15		59	5	42																
25		18			10			34		50	8	14	9																		
26		21			5			41	25		25		27	4	34																
27		23			1			47	26		0		38																		
28		26	28		57			53		34		47	3	27	1																
29		28			52	24		0	27		9		54	2	55																
30		31			48			7		43		59	25																		
31		34			44			14	28		17	9	1	1	56																

12 JUNE 1956 S. J. O. UJJAIN												
Date	Day	Sidereal Time			☉		♃			Midnight		ψ
		H. M. S.	Long.	Decl.	Long.	Lat.	Decl.	♃	♃	♃		
1	F.	4 38 56	10 43 42	22N 4	4 44 5	N17 4	S52 10	54 28	1			
2	S.	42 52 11	41 10 12	17 3	13 0	18 23	22 R	0				
3	Su.	46 49 12	38 39 19	29 41	4 55 4	N23 6	11 27	59				
4	M.	50 45 13	36 5 26	12 41	21 9 1	19 23		58				
5	Tu.	54 42 14	33 29 33	26 5	3 32 13	22 3 8	0	57				
6	W.	58 39 15	30 58 39	48 55	2 30 17	9 17 2		56				
7	Th.	5 2 35	16 28 23	45 24	10 1 16	20 3 1	28	55				
8	F.	6 32 17	25 48 51	8 46	0 S 4	21 42 16		54				
9	S.	10 28 18	23 11 56	23 37	1 25 52	1 8 53						
10	Su.	14 25 19	20 35 23	1 8 38	2 41 20	29 16 8		52				
11	M.	18 21 20	17 56 5 23	38 3 46	17 40 1	4 51						
12	Tu.	22 18 21	15 18 9 8	29 4 35	13 43 15	47 50						
13	W.	26 14 22	12 37 13	23 5 6	9 0 0	13 49						
14	Th.	30 11 23	9 58 16	7 21 16	3 55 14	17 48						
15	F.	34 8 24	7 16 19	21 14 8	1 S 15	28 0 48						
16	S.	38 4 25	4 35 21	4 45 4	42 6 13	11 20 47						
17	Su.	42 1 26	1 52 23	17 55 3	10 46 24	21 46						
18	M.	45 57 59	8 25 0	46 3 12	14 44 7	4 46						
19	Tu.	49 54 27	56 22 26	13 21 2	12 17 57	19 32 45						
20	W.	53 50 28	53 38 25	43 1 8	20 17 1 48							
21	Th.	57 47 29	50 51 27	7 53 0	1 21 39	13 55 44						
22	F.	1 43 0	48 4 19	56 1 N 5	59 25 54							
23	S.	5 40 1 45	14 26 1 52	2 7 18	7 49 43							
24	Su.	9 37 2 42	29 25 13 45	3 4 19	41 19 40							
25	M.	13 33 3 39	42 24 25 36	52 17 14	1 31 42							
26	Tu.	17 30 4 36	55 22 7 26	4 30 14	4 13 23 41							
27	W.	21 26 5 34	6 20 19 20	57 10 20	25 14							
28	Th.	25 23 6 31	16 17 1 18	5 11 6	10 7 21 34							
29	F.	29 19 7 28	29 14 13 25	11 1 44	19 31							
30	S.	33 16 8 25	40 11 25 44	4 57 2	N51 2 1 40							

Date	ψ		♁		♂		♄		♃	
	Lat.	Decl.								
1	1N47	9S 6	0N33	20N47	2N13	17S42	1N 2	14N23	2S40	14S23
3				46		40		17	44	3
5		5		45		38	1	12	49	13 44
7		4		43		37		7	54	25
9				42	12	36		1 3	0	7
11	46	3		41		34		13	55	5 12 48
13				39		33		49	10	29
15		2		38		31	0	43	16	11
17				37	11	30		37	21	11 54
19				35		28		30	27	36
21		I		34		27		24	32	19
23				32		26		17	38	2
25				31	10	25		10	43	10 46
27				29		24	0 59	3	49	30
29				28		23		12	56	15

EPHEMERIS JUNE 1956 13																							
Date	Longitudes.										Lunar Aspects.												
	♁	♂	♄	♃	♂	♀	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	♁	
1	29	36	28	39	24	21	28	51	9	1	1	31											
2		39	R	35	29	29	25	8	R	59	R	9	□	□	□	□	□	□	□	□	□	□	□
3		42		31	36	58	54	0	50				□	□	□	□	□	□	□	□	□	□	□
4		45		26	44	0	32	47					□	□	□	□	□	□	□	□	□	□	□
5		47		22	52	1	5	37					□	□	□	□	□	□	□	□	□	□	□
6		50		18	59		38																
7		53		14	25	7	2	11					□	□	□	□	□	□	□	□	□	□	□
8		56		10		15		43	7	54	D	16	□	□	□	□	□	□	□	□	□	□	□
9		59				24	3	15		35		22	□	□	□	□	□	□	□	□	□	□	□
10		0	R	2		32		48		14		33	□	□	□	□	□	□	□	□	□	□	□
11			5	27	58	40	4	19	6	51		48	□	□	□	□	□	□	□	□	□	□	□
12			8		54	49		51		26	1	8	□	□	□	□	□	□	□	□	□	□	□
13			11		50	58	5	22	5	58		33	□	□	□	□	□	□	□	□	□	□	□
14			14		46	26	6	54		29	2	1	□	□	□	□	□	□	□	□	□	□	□
15			17		42		15	6	24	4	57		34	□	□	□	□	□	□	□	□	□	□
16			21		38		24		55		25	3	12										
17			24		35		33	7	25	3	51		53										
18			27		31		42		56		15	4	39	□	□	□	□	□	□	□	□	□	□
19			30		28		52	8	25	2	39	5	29	□	□	□	□	□	□	□	□	□	□
20			33		24	27	1	55		2	6	23											
21			37		21		11	9	21	1	25	7	20	□	□	□	□	□	□	□	□	□	□
22			40		17		20		54	0	47	8	22	□	□	□	□	□	□	□	□	□	□
23			43		14		30	10	22		10	9	27	□	□	□	□	□	□	□	□	□	□
24			47		11		40		50	29	32	10	37	□	□	□	□	□	□	□	□	□	□
25			50		8		49	11	18	28	55	11	49	□	□	□	□	□	□	□	□	□	□
26			53		5		59		46		19	13	6	□	□	□	□	□	□	□	□	□	□
27			57		2	28	9	12	13	27	44	14	26	□	□	□	□	□	□	□	□	□	□
28	1		0	26	59		19		40		10	15	50	□	□	□	□	□	□	□	□	□	□
29			4		56		30	13	6	26	37	17	17	□	□	□	□	□	□	□	□	□	□
30			7		53		40		33		6	18	48	□	□	□	□	□	□	□	□	□	□

Date	♀		♁		Mean	Date	Time	Phenomena
	Lat.	Decl.	Lat.	Decl.				
1	2N16	25N24	3S15	17N17	8 7 2	2	13 40	☾ at Last Quarter.
3	1 57	5	35	16 49	7 55	8	10 48	☾ on Equator.
5	36	24 46	51	28	49	9		Heli. rising of ♃ in East.
7	14	25 4	2	16	43	9	2 56	New Moon, D. 21°N 48'
9	0 50	4	7	12	36	10	9 0	☾ at Perigee.
11		24 23 41	9	16		30	13 8	♀ at ☽
13	0 S 2	16	6	28		24	15 17	☾ at First Quarter.
15	30	22 51	3 59	47		17	17 48	☾ on Equator.
17	58	25	48	17 12		11	16	Heli. setting of ♁ in W.
19	1 26	21 59	35	42		4	21 12 22	☾ at ☽
21	55	32	19	18 16	6	58	21 15 47	☽ enters ☽
23	2 22	5	0	54		52	23 11 45	Full Moon D. 21° S 18'
25	48	20 38	2 40	19 34		45	25 13	☾ at Perigee.
27	3 13	13	18	20 15		39	29	Heli. rising of ♁ in E.
29	36	19 49	1 15	56		33	21 5	☾ on Equator.
							30 15	☽ at Aphelion.

Date	Day	Sidereal Time.			☉		☽		Midnight		ψ
		H.	M.	S.	Long.	Decl.	Long.	Lat.	Decl.	D	
1	W.	8	39	26	8 ^a 58	3 ¹⁸ N	12 ⁷ 15	0 ^N 46	20 ^N 18	4 ^π 15	27 ^Δ 48
2	Th.		43	22	9 ⁵⁵	28 ¹⁷	46 ¹¹ 15	0 ^S 28	21 ⁴⁰	18 ¹³	
3	F.		47	19	10 ⁵²	56	30 ²⁵ 41	1 ⁴³	39	3 ³ 6	49
4	S.		51	15	11 ⁵⁰	21	15 ¹⁰ 30	2 ⁵³	20 ¹⁰	18 ³	50
5	Su.		55	12	12 ⁴⁷	51 ¹⁶	58 ²⁵ 06	3 ⁵²	17 ¹⁴	3 ^Δ 13	51
6	M.		59	8	13 ⁴⁵	24	42 ¹⁰ 50	4 ³⁵	13 ⁷	18 ²⁵	52
7	Tu.	9	3	5	14 ⁴²	54	25 ²⁶ 1	5 ⁸	8 ¹⁰	3 ^π 31	53
8	W.		7	1	15 ⁴⁰	24	9 ¹¹ 0	5 ¹	2 ⁴⁸	18 ¹⁸	
9	Th.		10	58	16 ³⁷	58 ¹⁵	51 ²⁵ 37	4 ⁴	2 ^S 35	2 ^Δ 42	54
10	F.		14	54	17 ³⁵	31	34 ⁹ 46	9 ⁷	41 ¹⁶	3 ^Δ 36	55
11	S.		18	51	18 ³³	9	16 ²³ 26	3 ²¹	12 ¹³	0 ^m 2	57
12	Su.		22	48	19 ³⁰	14	58 ⁶ 37	2 ²⁴	16 ⁰	13 ⁰	58
13	M.		26	44	20 ²⁸	23	40 ¹⁹ 23	1 ²	22 ¹⁸	53 ²⁵	59
14	Tu.		30	41	21 ²⁶	2	22 ¹ 37	0 ¹	20 ⁴⁸	7 ^Δ 42	28
15	W.		34	37	22 ²³	42	3 ¹³ 56	0 ^N 48	21 ⁴²	19 ⁵⁵	0
16	Th.		38	34	23 ²¹	18 ¹³	44 ²⁵ 54	1 ⁴⁹	34	1 ^π 49	2
17	F.		42	31	24 ¹⁹	3	25 ⁷ 45	2 ⁴⁴	20 ²⁹	13 ⁴⁰	3
18	S.		46	27	25 ¹⁶	45	6 ¹⁹ 34	3 ³³	18 ³¹	25 ²⁹	5
19	Su.		50	24	26 ¹⁴	30 ¹²	46 ¹ 25	4 ¹²	15 ⁴⁵	7 ^π 24	6
20	M.		54	20	27 ¹²	15	27 ¹³ 19	40 ¹²	21 ¹⁹	19 ¹⁹	7
21	Tu.		58	17	28 ¹⁰	2	7 ²⁵ 19	56 ⁸	26 ¹	1 ^π 23	8
22	W.	10	2	13	29 ⁷	49 ¹¹	47 ⁷ 26	59 ⁴	9 ¹³	34	10
23	Th.		6	10	0 ⁵	37	27 ¹⁹ 41	48 ⁰	N20	25 ⁵³	11
24	F.		10	6	1 ³	25	6 ² 5	24 ⁴	52	8 ^π 22	12
25	S.		14	3	2 ¹	19 ¹⁰	45 ¹⁴ 38	3 ⁴⁶	9 ¹⁵	21 ¹	14
26	Su.		18	0	59 ¹³		25 ²⁷ 23	2 ⁵⁷	13 ¹⁸	3 ^π 52	15
27	M.		21	56	3 ⁵⁷	7	4 ¹⁰ 20	1 ⁵⁸	16 ⁴⁷	16 ⁵⁷	17
28	Tu.		25	53	4 ⁵⁵	5 ⁹	43 ²³ 34	0 ⁵¹	19 ²⁹	0 ^π 19	18
29	W.		29	49	5 ⁵³	3	21 ⁷ 5	0 ^S 21	21 ¹⁰	14 ⁰	20
30	Th.		33	46	6 ⁵¹	2	0 ²⁰ 56	1 ³²	36	28 ³	21
31	F.		37	42	7 ⁴⁹	6 ⁸	38 ⁵ 9	2 ⁴⁰	20 ⁴¹	12 ^π 25	23

Date	☉		☽		♁		♂		♀	
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.
2	1 ^N 43	9 ^S 4	0 ^N 33	20 ^N 0	2 ^N 1	17 ^S 20	0 ^N 58	10 ^N 35	5 ^S 35	7 ^S 51
4				19 ⁵⁹	0	21		26	40	
6				57				17	45	
8				55	1 ⁵⁹	22		8	50	53
10				54		23	9 ⁵⁸		54	56
12				52	58	24		49	58	8
14				50		25		40	6	2
16				49	57	26		30	5	12
18				47		28		21	8	18
20				45	56	29		11	11	26
22				44		31		1	13	34
24			34	42		32	8	52	14	43
26				41		34		42		53
28	42			39	55	35		32	15	9
30				38		37		22	14	12

Date	Longitudes							Lunar Aspects																		
	♁	♂	♀	♁	♂	♀	♁	♂	♀	♁	♂	♀	♁	♂	♀	♁	♂	♀								
1	3	Ω	3	26	m	10	4	♁	46	23	×	3	28	π	8	21	Ω	56	π	*	*	*	*	□	□	
2				7					58		10					43	23	46	*	□	Δ	□	□	□	*	*
3				11				5	11		17	29				18	25	34	Δ	Δ	Δ	Δ	□	□	□	□
4				14		11			23		22					55	27	21	*	*	*	*	□	□	□	□
5				18					35		27	0 ^π	33	29	6				□	□	Δ	Δ	Δ	Δ	Δ	Δ
6				22												12	0 ^π	49	δ	*	*	*	*	□	□	□
7				25				6								52	2	31	*	*	*	*	□	□	□	□
8				29												37	2	33	4	11	*	*	*	*	□	□
9				32												38	3	15	5	50	Δ	Δ	Δ	Δ	Δ	Δ
10				36												59	7	27			*	*	*	*	□	□
11				40												4	43	9	3	*	*	*	*	□	□	□
12				43												38	5	28	10	37	*	*	*	*	□	□
13				47												36	6	14	12	9	□	□	□	□	□	□
14				50												34	7	0	13	40						
15				54												31		48	15	9	Δ	Δ	Δ	Δ	Δ	Δ
16				57												27	8	36	16	37	Δ	*	*	*	*	□
17	4			1												22	9	25	18	3	□	*	*	*	*	□
18				4												16	10	25	19	27						
19				8												10	11	6	20	50	π	□	*	*	*	□
20				11												2		57	22	11			π	Δ	Δ	□
21				15														49	23	31	δ	Δ	□	□	*	□
22				18														46	13	41	24	48	□	□	□	□
23				22														36	14	34	26	4	□	□	□	□
24				25														26	15	28	27	18	□	□	□	□
25				29														16	16	22	28	30	□	□	□	□
26				32														4	17	17	29	40	Δ	Δ	□	□
27				35														52	18	12	0 ^Δ	48	□	□	□	□
28				39														40	19	8	1	54	□	□	*	□
29				42														27	20	4	2	57	□	□	*	□
30				45														13	21	1	3	58	□	□	*	□
31				48														56	11	8	20	59	*	Δ	*	□

Date	☉		☽		Mean. Ω	Date	Time. H. M.	Phenomena.							
	Lat.	Decl.	Lat.	Decl.											
2	5 ^S 3	18 ^N 23	1 ^N 31	15 ^N 2	4	45	2	55	♁ at ☉						
4	4	57	30	22	13	41	38	6	16	57	♁ at Perigee.				
6		50	37	11	12	18	32	8			New Moon D. 12° N 7'				
8		42	43	0	59	10	53	26	9	0	29	Heli. rising of ♁ in West.			
10		34	49	45	9	28	19	13	14	18		♁ on Equator.			
12		26	54	30	8	3	13	14	18	17		♁ at First Quarter.			
14		17	59	14	6	39	7	14	18	17		♁ at ♁			
16		8	1	3	0	S	2	5	15	0	16	6	0	Heli. setting of ♁ in W.	
18	3	58	6	20	3	52	3	54	18	23	0	0	0	♁ at ☉	
20		48	7	38	2	31	47	21	18	8			0	♁ at Apogee.	
22		38		56	1	12	41	23	9	31			0	Full Moon D. 7° S 21'.	
24		28	6	1	15	0	S	4	35	10	13		0	♁ enters ♁	
26		1	4	34	1	18	28	24	3	9			0	♁ on Equator.	
28		7	18	59	53	2	29	22	26	14			0	♁ on Equator.	
30	2	57	53	2	12	3	35	16	29	5	0		0	♁ at ☉	
								9	42					0	♁ at Last Quarter.

Date	Day	Sidereal Time	☉		♃			Midnight D	ψ
			Long.	Decl.	Long.	Lat.	Decl.		
1	S.	H. M. S.	8 ^m 47 11	3 N 17	19 ^m 42	3 S 40	18 N 22	27 ^m 6	28 ^m 24
2	Su.	45 35 9	45 15 7	55 4 ^m 30	4 25 14	51 12 ^m 0			
3	M.	49 32 10	43 23 33	19 29 33	53 10 21	26 58 28			
4	Tu.	53 29 11	41 37 11	4 ^m 28	5 0 5	13 11 ^m 53			
5	W.	57 25 12	39 46 6	49 19 4	48 0 S 11	26 35 31			
6	Th.	1 22 13	37 59 26	3 ^m 52	17 5 27	10 ^m 55			
7	F.	5 18 14	36 14 4	18 1 3	30 10 18	24 52 34			
8	S.	9 15 15	34 33 5	41 1 ^m 43	2 33 14	28 8 ^m 20			
9	Su.	13 11 16	32 52 19	14 57 1	29 17 45	21 21 38			
10	M.	17 8 17	31 13 4	56 27 45	0 22 20	2 3 ^m 59			
11	Tu.	21 4 18	29 35 33	10 ^m 22	22 1 46	26 27 21			
12	W.	25 1 19	27 38 10	22 2 28	43 20 40	9 ^m 15			
13	Th.	28 58 20	26 25 3	47 4 ^m 21	2 43 20	40 9 ^m 15			
14	F.	32 54 24	24 52 24	16 12 3	32 18 57	22 7 47			
15	S.	36 51 22	23 21 1	28 2 4	11 16 26	3 ^m 59			
16	Su.	40 47 23	21 51 2	38 5=55	41 13 15	14 55 51			
17	M.	44 44 24	20 22 15	22 54 58	9 30 27	58 53			
18	Tu.	48 40 25	18 57 1	52 4 ^m 1	5 2 5	21 10 ^m 10			
19	W.	52 37 26	17 32 28	16 19 4	52 0 55	22 33 57			
20	Th.	56 33 27	16 9 5	28 48 28	3 N 37	5 ^m 7			
21	F.	0 30 28	14 48 0	42 11 ^m 28	3 50 8	4 17 53	29		
22	S.	4 27 29	13 29 1	24 19 2	12 13 0	8 50	3		
23	Su.	8 23 0	12 12 0 S	5 7 ^m 21	2 0 15	52 13 57	5		
24	M.	12 20 1	10 56 28	20 34 0	53 18 45	27 16 9			
25	Tu.	16 16 2	9 44 52	3 59 0 S	18 20 39	10 17 7	7		
26	W.	20 13 3	8 33 1	15 17 36	1 30 21	22 24 31	11		
27	Th.	24 9 4	7 24 38	1 ^m 27	2 38 20	49 8 ^m 29	13		
28	F.	28 6 5	6 18 2	2 15 31	3 37 18	57 22 40	15		
29	S.	32 2 6	5 14 25	29 48 4	24 15 54	7 ^m 2	17		
30	Su.	35 59 7	4 13 48	14 16 54	11 51 21	13 19	19		

Date	♃		♄		♅		♆		♇	
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.
1	1 N 42	9 S 18	0 N 34	19 N 36	1 N 54	17 S 39	0 N 58	8 N 12	6 S 12	9 S 22
3		19		35		41		3	10	32
5		20		33	53	42	7 53	7	42	
7		22		32		44	59	43	4	5
9		23		30	52	46		33	5 59	10 1
11		24		29		48		3	54	10
13		26		27	51	51		13	49	17
15		27		26		53		3	43	24
17		28		25	50	55	6 53	36	30	30
19		30		24		57		44	23	35
21		31		22	49 18	0		34	20	39
23	41	33		21		2 1 0		24	12	41
25		34		20		4		14	3	44
27		36		19		7		4 4	54	42
29		37		18	48	10		5 55	45	41

Date	Longitudes						Lunar Aspects															
	♃	♄	♅	♆	♇	♈	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐
1	4 ^m 52	27	0	11	21	20	44	22 ^m 56	5 ^m 52	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
2	55	3		34	R 2	23	55	6 45	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
3	58	6		47		14	24	53 7 35	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
4	5	1		9:12	0 19	58	25	52 8 22	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
5		4		12	13	42	26	52 9 51	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
6		7		16	26	26	27	52 44	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
7		10		19	39	9	28	52 10 19	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
8		13		23	52	18	53	29 53	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
9		16		27	13	5	36	0 54 11	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
10		19		31	18	20	1	55 17 38	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
11		22		34	31	3	2	57 55	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
12		25		38	44	17	46	3 59 12	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
13		28		42	57	30	5	1 11	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
14		31		46	14	10	14	6 4	R 10	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
15		34		51	23	16	58	7 7		Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
16		37		55	36	42	8	10 11 48	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
17		39		59	49	27	9	14 26	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
18		42	28	4	15	2	12	10 18 10 58	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
19		45		8	15	15	57	11 22 23	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
20		47		13	27	43	12	26 9 41	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
21		50		17	40	29	13	3 5 53	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
22		52		22	53	16	14	36 7 58	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
23		55		27	16	6	3	15 41 6 59	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
24		57		31	19	14	51	16 46 5 56	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
25	6	0		36	31	39	17	52 4 51	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
26		2		41	18	44	28	18 58 3 44	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
27		5		46	57	1	20	4 2 38	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
28		7		51	17	10	8	21 10 1 34	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
29		9		56	22	13	59	22 17 0 34	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎
30		11	29	2	35	51	23	24 29 40	Δ	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎

Date	♃		♄		♅		Mean Ω	Date	Time H. M.	Phenomena
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.				
1	2 S 46	18 N 46	2 S 30	4 S 38	3 7 9	3 10 0			☽ at Perigee.	
3	35	37	48	5 35	3 5 0	30			New Moon Decl. 2° N 40'	
5	25	25	3 5 6	26	2 57 5	11 11			☽ on Equator.	
7	14	12	21 7	10	50 10	20 0			☽ at ♁	
9	3 17	57	35	46	44 12	5 47			☽ at First Quarter.	
11	1 53	41	48	8 12	38 13				Heli. setting of ♃ in W.	
13	42	22	57	27	31 15	10 5			☽ at Apogee.	
15	32	1 4	2 28	25	19 16	51			☽ on Equator.	
17	21 16	39	3 15	19	20 8	48			Full Moon Decl. 3° N 2'	
19	11	14	3 58	7 45	12 21				Heli. rising of ♃ in East	
21		15	48	46	6 59	6 23	7 7		☉ enters ♈	
23	0 51	20	26 5	56	1 59	25 5 53			☽ at ♁	
25	41 14	50	2 59	4 40	53 27	16 54			☽ at Last Quarter.	
27	32	18	25 3	18	47					
29	22 13	44	1 46	1 51	40					

24 DECEMBER 1956 S. J. O. UJJAIN

Date	Day	Sidereal Time			O		D		Midnight	ψ									
		H.	M.	S.	Long.	Decl.	Long.	Lat.			Decl.								
1	S.	16	40	25	9	3	27	21	S 49	26	m 33	0	S 13	19	S 33	2	54	1	m 32
2	Su.		44	22	10	4	17	58	9	15	0	N 57	20	55	15	29			34
3	M.		48	18	11	5	7	22	7	21	4	2	21	9	27	52			36
4	Tu.		52	15	12	6	5		15	4	1	3	2	20	21	10	4	4	38
5	W.		56	12	13	7	0		23	16	8		5	2	18	38	22	8	39
6	Th.	17	0	8	14	7	56		30	28	7	4	31	16	7	4	4		41
7	F.		4	5	15	8	53		37	10	1		59	12	56	15	57		43
8	S.		8	1	16	9	51		44	21	52	5	13	9	16	27	49		45
9	Su.		11	58	17	10	51		50	3	45		14	5	15	9	44		46
10	M.		15	54	18	11	43		55	15	44		2	0	40	21	49		48
11	Tu.		19	51	19	12	51	23	0	27	53	4	36	3	N 23	4	7	6	50
12	W.		23	47	20	13	53		5	10	18	3	5	7	42	16	41		51
13	Th.		27	44	21	14	54		9	23	3		4	11	49	29	38		53
14	F.		31	41	22	15	55		13	6	12	2	1	15	30	12	59		55
15	S.		35	37	23	16	57		16	19	46	0	50	18	29	26	46		56
16	Su.		39	34	24	18	0		19	3	46	0	S 27	20	28	10	58		58
17	M.		43	30	25	19	2		22	18	10	1	44	21	11	25	31		59
18	Tu.		47	27	26	20	6		24	2	52	2	56	20	29	10	18	2	1
19	W.		51	23	27	21	0		25	17	45	3	56	18	23	25	13		2
20	Th.		55	20	28	22	15		26	2	41	4	41	15	0	10	6		4
21	F.		59	16	29	23	18		27	17	32	5	7	10	43	24	50		5
22	S.	18	3	13	0	24	26		27	2	9	4	12	5	51	9	19		6
23	Su.		7	10	1	25	31		26	16	29	4	57	0	46	23	29		8
24	M.		11	6	2	26	38		25	0	29	25	4	S 15	7	18		9	
25	Tu.		15	3	3	27	45		24	14	8	3	39	8	56	20	48		10
26	W.		18	59	4	28	52		22	27	27	2	41	13	5	3	m 58		12
27	Th.		22	56	5	30	1		20	10	m 29	1	37	16	30	16	53		13
28	F.		26	52	6	31	10		17	23	16	0	29	19	3	29	33		14
29	S.		30	49	7	32	19		14	5	50	0	N 39	20	38	12	1		15
30	Su.		34	45	8	33	29		10	18	13	1	45	21	11	24	20		17
31	M.		38	42	9	34	40		6	0	27	2	44	20	43	6	30		19

Date	ψ		μ		η		ζ		δ	
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.
2	1N 42	10S 24	0N 37	19N 10	1N 41	19S 39	1N 10	1N 34	0S 38	1S 24
4		26		11		42		28	34	0 56
6		27				44		11	23	29
8		28		12		46		18	25	2
10		29		13	40	48	12	13	21	0N 26
12		30		14		50		8	17	54
14		31		15		52		4	13	1 23
16		32				54	13	0	9	51
18	43	33		16		57	14	0 56	6	2 20
20		34	38	17		59	15	53	2	48
22		35		18	20	1		50	0N 1	3 17
24		36		19		3	16	47	4	46
26		37		20	41	6		44	7	4 15
28		38		22		8	17	41	10	44
30				23		10		39	13	13

EPHEMERIS DECEMBER 1956 25

Date	Longitudes						Lunar Aspects														
	μ	η	ζ	δ	ε	ψ	⊙	☾	♂	♀	♁	♂	♁	♂	♁	♂	♁	♂	♁	♂	
1	6	51	57	47	28	m 38	27	29	7	m 3	19	7	14								
2	R	50		51		4		5	8		17	20	46								
3		49	6		1		53	28	26	9	31	22	18								
4		4			9	29		1		55	10	45	23	50							
5		46		16		8	29	24	11	59	25	23									
6		45		23		5		54	13	13	26	54	2								
7		44		30		22	0	25	14	28	28	26		*							
8		42		37		29		51	15	42	29	58									
9		41		44		36	1	24	16	56	1	29									
10		40		51		4		54	18	11	2	59									
11		38		58		49	2	2	1	25	4	30									
12		37	7	5		55		55	20	39	6	0									
13		35		1	0	1	3	2	21	51	7	29									
14		33		19		7		58	23	8	8	55									
15		32		26		13	4	29	24	23	10	25									
16		30		33		18	5	1	25	37	11	52									
17		28		40		24		33	26	52	13	17									
18		26		47		29	6	5	28	61	4	41									
19		25		54		34		37	29	21	16										
20		23	8		1	3	7	9	0	7	36	17	23								
21		21		8		44		42	1	50	18	41									
22		19		14		49	8	15	3	5	19	56									
23		17		21		53		47	4	19	21	7									
24		15		28		58	9	20	5	34	22	15									
25		13		35	1	2		54	6	49	23	18									
26		11		42		61		25	8	4	24	15									
27		9		48		10	11	1	9	18	25	7	*								
28		7		55		13		35	10	33	52	2									
29		4	9		1	12		9	11	48	26	29									
30		2		8		20		42	13	3	58										
31	6	0		14		23	13	16	14	18	27	17									

Date	ψ		μ		η		ζ		Mean	Date	Time	Phenomena		
	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.	Lat.	Decl.						
2	1N 49	12S 33	1S 55	25S 3	28	m 17	1	16	27		11 27	☽ at ♁		
4		48	13	21	2	3	21	11	2	13	45	New Moon. D. 20° S 56'		
6		4	14	8		9	33	4	6			Heli. rising of ♄ in W.		
8		43		54		13	40	27	58	7	21	☽ at Apogee.		
10		41	15	38		16	41	52	8	15	26	☽ on Equator.		
12		38	16	21		18	36	45	10	15	57	☽ on Equator.		
14		35	17	2		17	25	39	10	17	19	☽ at First Quarter.		
16		32		41		14	8	33	14			Heli. rising of ♃ in E.		
18		28	18	18		9	24	47	26	16	20	25	☽ at ☽	
20		25		54		0	18	20	18	0	33	Full Moon. D. 20° S 50'		
22		21	19	28		1	4	23	46	13	19	18	5	☽ at Perigee.
24		17		59		34	9	7	21	20	0			☽ at ☽
26		12	20	28		14	22	29	1	22	2	33		☽ enters ♃
28		8		55	0	50	21	48	26	54	23	15	40	☽ on Equator.
30		3	21	20		22		8	48	24	15	44		☽ at Last Quarter.
										28	22	14		☽ at ☽

SUNRISE IN 1956												
Months and Dates.	Latitudes											
	+5°	+8°	+11°	+14°	+17°	+20°	+23°	+26°	+29°	+32°	+35°	
Jan. 1	6	8	13	6	24	6	30	6	35	6	41	6
8	11	16	22	27	32	37	43	49	55	2	7	8
15	13	18	23	28	33	38	44	50	56	2	8	9
22	15	19	24	28	33	38	44	50	55	1	6	6
29	16	20	24	28	32	36	41	46	51	6	5	6
Feb. 5	16	20	23	27	31	35	39	43	48	52	6	5
12	16	19	22	25	28	32	35	38	42	46	50	50
19	15	17	19	22	25	28	31	34	37	40	43	43
26	13	15	17	19	21	23	25	28	30	33	35	35
Mar. 5	11	12	13	15	17	18	20	21	23	24	26	26
12	8	9	9	10	11	12	13	14	15	15	16	16
19	5	5	5	5	6	6	6	7	7	7	7	7
26	2	1	1	1	1	0	0	0	0	0	0	0
Apr. 2	5	5	5	5	5	5	5	5	5	5	5	5
9	5	5	5	5	5	5	5	5	5	5	5	5
16	5	5	5	5	5	5	5	5	5	5	5	5
23	5	5	5	5	5	5	5	5	5	5	5	5
30	4	4	4	4	4	4	4	4	4	4	4	4
May 7	4	4	4	4	4	4	4	4	4	4	4	4
14	4	4	4	4	4	4	4	4	4	4	4	4
21	4	4	4	4	4	4	4	4	4	4	4	4
28	4	4	4	4	4	4	4	4	4	4	4	4
June 4	4	4	4	4	4	4	4	4	4	4	4	4
11	4	4	4	4	4	4	4	4	4	4	4	4
18	4	4	4	4	4	4	4	4	4	4	4	4
25	4	4	4	4	4	4	4	4	4	4	4	4
July 2	5	4	4	4	4	4	4	4	4	4	4	4
9	5	4	4	4	4	4	4	4	4	4	4	4
16	5	4	4	4	4	4	4	4	4	4	4	4
23	5	4	4	4	4	4	4	4	4	4	4	4
30	5	4	4	4	4	4	4	4	4	4	4	4
Aug. 6	5	4	4	4	4	4	4	4	4	4	4	4
13	5	4	4	4	4	4	4	4	4	4	4	4
20	5	4	4	4	4	4	4	4	4	4	4	4
27	5	4	4	4	4	4	4	4	4	4	4	4
Sep. 3	5	4	4	4	4	4	4	4	4	4	4	4
10	5	4	4	4	4	4	4	4	4	4	4	4
17	5	4	4	4	4	4	4	4	4	4	4	4
24	5	4	4	4	4	4	4	4	4	4	4	4
Oct. 1	5	4	4	4	4	4	4	4	4	4	4	4
8	5	4	4	4	4	4	4	4	4	4	4	4
15	5	4	4	4	4	4	4	4	4	4	4	4
22	5	4	4	4	4	4	4	4	4	4	4	4
29	5	4	4	4	4	4	4	4	4	4	4	4
Nov. 5	5	4	4	4	4	4	4	4	4	4	4	4
12	5	4	4	4	4	4	4	4	4	4	4	4
19	5	4	4	4	4	4	4	4	4	4	4	4
26	5	4	4	4	4	4	4	4	4	4	4	4
Dec. 3	5	4	4	4	4	4	4	4	4	4	4	4
10	5	4	4	4	4	4	4	4	4	4	4	4
17	5	4	4	4	4	4	4	4	4	4	4	4
24	5	4	4	4	4	4	4	4	4	4	4	4
31	5	4	4	4	4	4	4	4	4	4	4	4

SUNSET IN 1956												
Months and Dates	Latitudes											
	+5°	+8°	+11°	+14°	+17°	+20°	+23°	+26°	+29°	+32°	+35°	
Jan. 1	17	59	17	54	17	48	17	43	17	38	17	32
8	18	2	58	53	48	42	36	30	24	18	11	17
15	5	18	1	56	51	46	41	36	30	24	18	11
22	8	4	18	0	55	50	45	40	35	30	24	18
29	11	7	3	59	55	50	46	41	36	31	25	25
Feb. 5	12	8	5	18	1	57	54	50	46	42	37	32
12	13	10	7	4	18	1	58	55	52	48	44	39
19	14	11	9	6	6	4	18	1	59	56	53	50
26	14	12	10	8	6	4	18	2	18	0	57	55
Mar. 5	13	12	10	9	8	6	5	3	18	2	18	0
12	12	11	11	10	9	8	7	6	6	5	18	4
19	11	11	11	11	11	11	11	11	10	10	10	10
26	10	10	11	11	11	12	12	13	14	15	16	16
Apr. 2	9	10	11	11	12	13	14	16	18	20	23	27
9	8	9	10	10	12	14	16	18	20	23	25	27
16	6	8	11	13	15	18	20	23	26	29	32	38
23	7	9	12	14	17	20	23	27	31	35	40	44
30	6	9	13	16	19	23	27	31	34	39	44	49
May 7	6	9	13	17	21	25	29	34	39	43	49	55
14	6	10	14	18	23	28	33	38	43	48	54	59
21	7	11	15	20	25	31	36	42	48	54	59	65
28	9	13	18	23	28	34	40	46	52	58	64	70
June 4	10	14	19	24	30	36	42	48	54	59	65	71
11	11	16	22	27	33	39	45	52	59	65	71	77
18	13	18	24	29	35	41	47	54	61	67	73	79
25	15	20	26	31	36	42	48	55	62	68	74	80
July 2	16	21	27	32	37	43	49	56	63	69	75	81
9	16	21	27	32	37	43	49	55	62	68	74	80
16	17	22	27	32	37	42	48	54	61	67	73	79
23	17	22	27	32	37	41	47	52	58	64	70	76
30	16	20	24	28	33	38	43	48	54	59	65	71
Aug. 6	15	19	23	27	31	35	39	44	49	54	59	65
13	13	16	20	23	26	30	34	38	43	47	52	57
20	11	14	17	20	23	26	29	32	36	40	44	48
27	8	10	13	15	17	20	22	25	28	31	35	38
Sep. 3	6	7	9	10	12	14	16	18	20	23	26	29
10	2	3	4	5	6	8	9	10	12	14	16	18
17	17	59	0	0	1	1	2	2	3	4	5	6
24	55	17	55	17	55	17	55	17	55	17	55	17
Oct. 1	52	51	51	50	50	49	48	47	46	45	44	43
8	49	48	47	46	44	43	42	40	38	37	36	35
15	46	44	42	41	39	37	35	32	30	27	24	21
22	44	42	39	37	35	32	30	27	24	21	18	15
29	43	40	37	34	31	28	25	21	17	14	10	7
Nov. 5	42	39	35	32	28	24	20	16	12	8	3	0
12	42	38	34	30	26	21	17	12	7	2	16	57
19	42	38	33	29	24	20	15	10	5	16	59	53
26	43	39	34	29	24	19	14	9	3	57	50	50
Dec. 3	45	40	35	30	25	20	14	8	2	55	48	48
10	48	43	38	33	27	21	15	9	2	55	48	48
17	51	46	40	35	30	24	18	11	4	57	50	50
24	55	49	44	39	33	27	21	15	8	17	51	53
31	58	53	47	42	36	31	25	19	12	5	58	58

Date.	January						February						March						April									
	10°		20°		30°		10°		20°		30°		10°		20°		30°		10°		20°		30°					
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.				
1	21	10	22	4	20	53	22	28	22	37	22	47	22	51	23	7	23	29	23	13	0	18	0	38				
2	21	4	22	2	20	53	22	19	23	31	23	45	23	42	0	0	23	26	23	0	1	2	1	20				
3	22	56	22	59	23	2	0	9	0	24	0	42	23	42	0	0	26	0	23	0	0	47	0	38				
4	23	46	23	53	0	1	1	0	1	17	1	37	23	42	0	0	26	0	23	0	1	30	1	20				
5	0	36	0	46	0	58	1	50	2	9	2	30	0	32	0	50	7	2	0	2	1	43	1	58				
6	1	25	2	41	3	0	3	39	2	58	3	19	2	21	1	39	2	0	2	2	2	22	2	33				
7	3	5	3	23	3	43	4	27	3	45	4	5	2	2	25	2	44	3	3	3	3	3	3	7				
8	3	5	3	23	3	43	4	14	4	29	4	48	3	36	3	48	3	23	3	3	3	32	3	38				
9	3	54	4	13	4	35	4	4	5	11	5	27	4	17	4	25	4	4	4	1	9	14	4	12				
10	4	53	5	12	5	33	5	40	5	11	5	27	4	17	4	25	4	34	4	4	5	4	5	45				
11	5	41	5	58	6	18	6	21	6	28	6	36	3	4	57	5	2	5	8	5	42	5	33	5	23			
12	6	16	6	31	6	49	7	0	7	4	7	8	6	19	6	17	6	16	6	2	6	29	6	16	6	2		
13	7	0	7	12	7	27	7	40	7	4	7	8	6	19	6	17	6	16	6	2	7	22	7	6	48			
14	7	41	7	50	8	1	8	22	8	18	8	13	7	48	7	26	7	14	8	1	8	18	8	1	7	41		
15	8	21	8	27	8	33	9	4	8	56	8	47	8	36	8	22	8	6	10	10	10	2	9	42	9	42		
16	9	0	9	2	9	4	9	49	9	37	9	23	9	29	9	13	8	6	10	10	10	2	9	42	9	42		
17	9	40	9	38	9	36	10	38	10	33	10	6	10	24	10	6	8	6	10	10	10	2	9	42	9	42		
18	10	20	10	15	10	8	11	32	11	14	10	54	11	24	11	5	9	45	11	11	11	4	10	46	10	46		
19	10	4	10	54	10	44	12	28	12	10	11	48	12	24	12	7	11	45	12	12	12	16	12	1	5	5		
20	11	51	11	38	11	23	13	31	13	12	12	51	13	24	13	9	12	52	13	13	13	15	13	5	5	5		
21	12	42	12	26	12	7	14	33	14	16	13	57	14	23	14	11	13	58	14	14	14	18	14	3	13	58		
22	13	39	13	21	12	0	15	35	15	15	15	5	15	19	15	11	15	5	15	15	15	15	15	15	15	0	0	
23	14	40	14	22	14	0	16	34	16	24	16	13	16	14	16	11	16	2	16	16	16	16	16	16	16	0	0	
24	15	45	15	28	15	7	17	32	17	27	17	20	17	16	14	16	11	16	2	16	16	16	16	16	16	0	0	
25	16	51	16	35	16	17	18	28	18	26	18	24	18	17	16	14	16	11	16	16	16	16	16	16	16	0	0	
26	17	53	17	41	17	27	19	22	19	25	19	28	18	18	17	16	14	16	11	16	16	16	16	16	16	0	0	
27	18	52	18	43	18	35	20	15	20	22	20	30	19	47	19	59	20	13	20	14	20	14	20	14	20	52	52	
28	19	50	19	46	19	42	21	8	21	18	21	31	20	39	20	55	21	12	21	13	21	13	21	13	21	43	43	
29	20	45	20	45	20	46	21	8	21	18	21	31	21	31	21	49	22	8	22	14	22	14	22	14	22	31	31	
30	20	45	20	45	20	46	21	8	21	18	21	31	21	31	21	49	22	8	22	14	22	14	22	14	22	31	31	
31	21	37	21	42	21	47	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

Date.	May						June						July						August						
	10°		20°		30°		10°		20°		30°		10°		20°		30°		10°		20°		30°		
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	
1	23	24	0	6	0	16	0	41	0	4	0	39	0	7	0	1	23	45	0	18	0	2	0	36	
2	0	47	0	55	1	4	1	24	1	17	1	11	1	38	1	4	2	45	1	13	1	55	1	35	
3	1	27	1	31	1	36	2	7	1	58	1	47	2	29	2	13	3	54	2	16	2	59	2	39	
4	2	47	2	7	2	8	3	49	2	43	2	29	3	29	3	11	4	54	3	20	3	5	3	48	
5	3	31	3	24	3	15	4	48	3	33	3	15	4	34	4	16	5	54	4	24	4	14	4	59	
6	4	18	4	7	4	55	5	50	4	30	4	10	5	37	5	21	6	54	5	25	5	18	5	9	
7	5	10	5	4	5	49	6	56	5	39	5	11	6	42	6	30	6	54	6	25	6	18	6	9	
8	6	6	6	5	49	5	30	7	59	7	44	7	28	8	42	8	37	8	25	7	20	7	17	17	
9	7	7	7	6	49	6	28	9	1	8	50	8	37	9	38	9	37	9	25	8	21	8	23	23	
10	8	9	8	9	7	30	10	54	10	51	9	43	10	32	10	36	10	37	10	25	9	19	9	26	
11	9	11	9	59	9	37	11	46	11	47	10	47	11	24	11	31	11	40	11	28	10	17	10	28	
12	10	12	10	12	9	59	12	38	12	43	12	48	13	7	13	21	13	37	13	25	11	13	11	28	
13	11	5	11	55	11	53	13	28	13	37	13	47	13	59	14	15	14	33	14	25	12	15	12	28	
14	12	58	12	56	12	54	14	19	14	31	14	45	14	50	15	8	15	28	15	28	16	16	16	28	
15	13	49	13	52	13	54	15	10	15	25	15	42	15	40	15	58	16	18	16	40	16	52	17	6	
16	14	40	14	46	14	53	16	2	16	19	16	38	16	29	16	46	17	6	17	40	17	31	17	6	
17	15	31	15	41	15	52	17	43	17	10	17	31	17	15	17	30	17	49	18	40	18	1	18	6	
18	16	23	16	36	16	51	18	31	18	1	18	22	18	0	18	14	18	30	18	40	18	6	18	13	
19	17	14	17	30	17	47	19	31	18	48	18	18	18	41	18	52	19	5	19	40	19	18	19	17	
20	18	7	18	24	18	44	20	0	20	13	20	28	20	1	20	30	19	39	20	43	20	19	20	24	
21	18	57	19	16	19	36	20	41	20	51	21	3	20	41	20	5	20	43	21	43	21	20	21	24	
22	19	47	20	5	20	26	20	41	20	51	21	3	20	41	20	5	20	43	21	43	21	20	21	24	
23	19	35	20	51	21	10	21	22	21	28	21	36	21	19	21	16	21	13	22	15	22	21	21	44	
24	20	35	20	51	21	10	21	22	21	28	21	36	21	19	21	16	21	13	22	15	22	21	21	44	
25	21	19	21	34	21	50	22	0	22	4	22	8	22	0	22	32	22	21	23	7	22	21	22	44	
26	22	4	22	4	22	28	23	20	22	39	22	39	22	42	22	32	22	21	23	7	22	21	22	44	
27	22	4	22	4	22	28	23	20	22	39	22	39	22	42	22	32	22	21	23	7	22	21	22	44	
28	22	4	22	4	22	28	23	20	22	39	22	39	22	42	22	32	22	21	23	7	22	21	22	44	
29	22	4	22	4	22	28	23	20	22	39	22	39	22	42	22	32	22	21	23	7	22	21	22	44	
30	22	4	22	4	22	28	23	20	22	39	22	39	22	42	22	32	22	21	23	7	22	21	22	44	
31	23	23	23	23	23	35	23	20	23	16	23	12	23	28	23	15	23	0	23	3	23	0	23	3	24

Date	September			October			November			December		
	10°	20°	30°	10°	20°	30°	10°	20°	30°	10°	20°	30°
1	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
2	2 5	1 49	1 30	2 45	2 37	2 37	4 4	4 21	4 38	4 55	5 11	5 29
3	3 4	2 53	2 37	3 44	3 41	3 41	5 17	5 28	5 41	5 49	6 6	6 26
4	4 5	3 57	3 46	4 45	4 46	4 46	6 11	6 11	6 41	6 42	6 59	7 19
5	5 6	4 59	4 53	5 38	5 44	5 50	7 5	7 21	7 40	7 32	7 48	8 8
6	6 58	6 1	6 0	6 34	6 43	6 54	7 59	8 17	8 36	8 20	8 35	8 53
7	7 55	7 0	7 5	7 29	7 41	7 56	8 51	9 8	9 24	9 9	9 16	9 31
8	8 48	8 59	9 12	8 18	8 39	8 56	9 39	9 56	10 14	10 26	10 34	10 42
9	9 43	9 57	10 14	9 10	9 27	9 47	10 25	10 40	10 56	11 5	11 11	11 14
10	10 36	10 53	11 11	10 59	11 16	11 36	11 50	12 10	12 10	12 11	12 11	12 17
11	11 29	11 46	12 6	11 47	12 3	12 21	12 30	12 36	12 43	12 22	12 19	12 17
12	12 19	12 37	12 57	12 33	12 46	13 2	13 9	13 13	13 15	13 3	12 57	12 50
13	13 7	13 24	13 43	13 15	13 25	13 38	13 48	13 48	13 48	13 46	13 36	13 25
14	13 54	14 9	14 26	13 55	14 3	14 12	14 29	14 25	14 20	14 34	14 21	14 7
15	14 37	14 49	15 3	14 35	14 39	14 45	15 12	15 4	14 55	15 26	15 10	14 53
16	15 19	15 29	15 40	15 14	15 15	15 17	15 57	15 45	15 32	16 22	16 6	15 46
17	16 0	16 7	16 14	15 54	15 52	15 50	16 16	16 33	16 17	17 23	17 5	16 45
18	16 39	16 43	16 47	16 36	16 30	16 23	17 41	17 25	17 6	18 26	18 10	17 51
19	17 18	17 18	17 18	17 20	17 11	17 0	18 41	18 23	18 3	19 29	19 15	18 58
20	17 58	17 55	17 51	18 7	17 55	17 40	19 41	19 24	19 4	20 30	20 20	20 7
21	18 4	18 34	18 26	18 59	18 44	18 26	20 43	20 27	20 9	21 29	21 22	21 14
22	19 26	19 15	19 3	19 4	19 37	19 17	21 42	21 29	21 14	22 25	22 22	22 19
23	20 13	20 0	19 44	20 51	20 34	20 14	22 40	22 30	22 20	23 20	23 21	23 22
24	21 4	20 48	20 30	21 50	21 33	21 14	23 36	23 31	23 24	0 13	0 18	0 24
25	21 59	21 42	21 21	22 49	22 34	22 17	0 30	0 29	0 27	1 4	1 13	1 23
26	22 56	22 38	22 18	23 47	23 35	23 22	1 23	1 22	1 20	2 51	2 3	2 22
27	23 55	23 39	23 20	0 44	0 36	0 27	2 15	2 22	2 29	3 44	4 0	4 19
28	0 55	0 41	0 24	1 39	1 35	1 30	3 8	3 18	3 30	4 4	4 53	5 2
29	1 54	1 43	1 30	2 34	2 34	2 33	4 1	4 4	4 29	5 26	5 43	6 2
30												
31												

Geocentric position of Pluto and Mean Longitudes of the Sun and the Moon in 1956 31

Month and Date	Pluto.			Sun.			Moon.						
	Long.	Lat.	Decl.	Mean Long.			Mean Long.	Hor. Par.	Semi-Dia.				
Jan.	1 28	22	10N 51	22N 11	279	54	5	137	26	10	59.9	16.3	
	11 R	12	54	17	289	45	29	269	12	1	53.9	14.7	
	21	0	56	24	299	36	51	40	57	51	58.1	15.8	
	31	27	46	58	309	28	15	172	43	42	58.2	15.9	
Feb.	10	32	11	0	37	319	19	39	304	29	32	54.4	14.8
	20	17	0	0	43	329	11	2	76	15	22	59.2	16.1
March	1	2	1	49	339	2	25	203	1	12	56.5	15.4	
	11	26	47	0	54	348	53	48	339	47	2	55.6	15.2
	21	35	0	57	358	45	12	111	32	53	59.4	16.2	
	31	25	10	58	368	36	35	243	18	43	55.1	15.0	
April	10	16	57	2	18	27	58	15	4	34	57.4	15.6	
	20	10	55	1	28	19	22	146	50	24	58.6	16.0	
	30	6	52	1	38	10	45	278	36	14	54.3	14.8	
May	10	5	50	22	59	48	2	50	22	4	59.4	16.2	
	20	D	48	56	57	53	32	182	7	54	57.1	15.6	
	30	13	45	52	67	44	55	313	53	45	54.2	14.8	
June	9	20	43	47	77	36	18	85	39	35	60.9	16.6	
	19	31	41	40	87	27	41	217	25	25	55.6	15.1	
	29	44	39	35	97	19	5	349	11	16	54.9	15.0	
July	9	27	0	37	28	107	10	120	57	6	61.3	16.7	
	19	16	36	22	117	1	51	252	42	56	54.5	14.8	
	29	33	36	15	126	53	15	24	28	46	56.2	15.3	
August	8	52	36	8	136	44	38	156	14	37	60.4	16.5	
	18	28	36	1	146	36	1	288	0	27	54.1	14.7	
	28	31	37	21	156	27	24	59	45	17	57.7	15.7	
Sep.	7	50	38	49	166	18	48	191	32	8	58.7	16.0	
	17	29	40	44	176	10	11	323	17	58	54.4	14.8	
	27	26	42	40	186	1	34	95	3	48	58.9	16.1	
Oct.	7	42	45	37	195	52	58	2.6	49	38	56.8	15.5	
	17	29	48	34	205	44	21	358	35	29	55.6	15.1	
	27	0	51	44	215	35	44	130	21	19	59.3	16.1	
Nov.	6	17	55	34	225	27	8	262	7	9	55.2	15.0	
	16	23	59	35	235	18	31	33	53	0	57.4	15.6	
	26	11	3	38	245	9	54	165	38	50	58.6	16.0	
Dec.	6	27	6	40	255	1	18	297	24	40	54.3	14.8	
	16	R	10	45	264	52	41	69	10	31	59.3	16.2	
	26	19	14	51	274	44	4	200	56	21	57.2	15.6	
	31	14	16	54	279	39	46	264	49	15	54.8	14.9	

Ending Moments of tithis for each date in 1956
(calculated in I. S. T.).

Date.	January.		February.		March.		April.		May.		June.	
	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.
1	19	H. M. 20 1	20	H. M. 8 24	19	H. M. 1 3	21	H. M. 21 53	21	H. M. 16 53	22	H. M. 11 52
2	20	17 44	21	8 16	20	1 20	22	..	22	19 17	23	13 18
3	21	16 39	22	9 0	21	2 30	22	0 19	23	21 22	24	13 56
4	22	16 11	23	10 33	22	4 17	23	2 51	24	23 0	25	13 45
5	23	16 31	24	12 42	23	6 40	24	5 17	25	23 58	26	12 54
6	24	17 40	25	15 19	24	9 18	25	7 17	26	..	27	11 15
7	25	19 29	26	18 4	25	11 58	26	8 44	26	0 12	28	8 58
8	26	20 58	27	20 48	26	14 21	27	9 30	27	23 42	29	6 18
9	27	0 0	28	23 16	27	16 20	28	9 40	28	22 31	30	2 58
10	27	0 26	29	..	28	17 49	29	9 8	29	20 46	1	23 34
11	28	3 12	29	1 22	29	18 42	30	8 7	30	18 32	2	20 2
12	29	5 55	30	3 6	30	19 4	1	6 38	1	15 57	3	16 36
13	30	8 32	1	4 23	1	18 59	2	4 52	2	13 8	4	13 21
14	1	10 54	2	5 14	2	18 27	3	2 50	3	10 13	5	10 29
15	2	12 58	3	5 40	3	17 36	4	0 42	4	7 20	6	8 4
16	3	14 38	4	5 45	4	16 28	5	22 30	5	4 35	7	6 14
17	4	15 57	5	5 25	5	15 5	6	20 16	6	2 3	8	4 57
18	5	16 45	6	4 40	6	13 31	7	18 5	7	23 49	9	4 22
19	6	17 4	7	3 32	7	11 44	8	15 56	8	21 56	10	4 22
20	7	16 45	8	1 58	8	9 44	9	13 57	9	20 25	11	4 57
21	8	15 55	9	24 0	9	7 35	10	12 4	10	19 22	12	6 5
22	9	14 26	10	21 38	10	5 17	11	10 25	11	18 45	13	7 39
23	10	12 23	11	18 59	11	2 55	12	9 3	12	18 37	14	9 33
24	11	9 36	12	16 4	12	0 34	13	8 1	13	18 58	15	11 45
25	12	6 38	13	13 3	13	22 22	14	7 23	14	19 45	16	14 8
26	13	3 16	14	10 3	14	20 22	15	7 13	15	21 0	17	22 39
27	14	23 45	15	7 14	15	18 42	16	7 37	16	7 37	17	..
28	15	20 13	16	4 47	16	17 39	17	8 33	17	..	18	18 57
29	16	16 51	17	2 52	17	17 7	18	10 5	18	2 59	19	0 43
30	17	13 47	18	1 34	18	17 18	19	12 2	19	5 25	20	23 13
31	18	11 14	19	18 13	19	18 13	20	14 24	20	7 51	21	..
	19	9 25	20	19 48	20	19 48			21	10 6	22	0 48

Ending Moments of tithis for each date in 1956
(calculated in I. S. T.)—(concl'd.)

Date	July.		August.		September.		October.		November.		December	
	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.
1	22	H. M. 1 51	24	H. M. 11 30	26	H. M. 13 54	27	H. M. 17 41	28	H. M. 0 26	29	H. M. 13 2
2	23	2 12	25	9 33	27	10 42	28	14 52	29	23 8	30	22 17
3	24	1 52	26	7 1	28	7 17	29	12 15	30	22 17	31	13 45
4	25	0 44	27	3 55	29	3 50	30	9 55	1	21 58	2	15 3
5	26	22 53	28	0 27	30	0 30	1	8 7	2	22 15	3	18 32
6	27	20 24	29	20 45	1	21 27	3	23 17	4	..	5	20 52
7	28	17 21	30	16 57	2	18 51	4	0 34	5	2 35	6	..
8	29	13 53	1	13 12	3	6 18	5	2 58	6	4 55	7	1 55
9	30	10 9	2	9 43	4	6 29	6	4 55	7	7 24	8	6 13
10	1	6 18	3	6 45	5	15 15	7	7 24	8	9 50	9	7 37
11	2	2 35	4	4 23	6	15 41	8	9 50	9	12 0	10	13 38
12	3	23 6	5	2 46	7	16 54	9	12 0	10	13 38	11	8 17
13	4	20 0	6	1 59	8	18 46	10	13 38	11	14 40	12	8 10
14	5	17 29	7	2 3	9	18 46	11	14 40	12	14 40	13	8 10
15	6	15 39	8	3 21	10	23 32	12	15 2	13	14 41	14	7 15
16	7	14 34	9	4 26	11	..	13	14 41	14	13 45	15	5 36
17	8	14 18	10	6 28	12	4 13	14	13 45	15	12 15	16	3 18
18	9	14 47	11	8 50	13	6 11	15	12 15	16	12 15	17	0 33
19	10	15 57	12	11 20	14	23 1	16	10 17	17	12 15	18	21 28
20	11	17 38	13	11 20	15	6 11	17	7 59	18	10 17	19	18 12
21	12	19 43	14	16 6	16	6 11	18	14 55	19	10 17	20	14 55
22	13	22 6	15	16 6	17	22 17	19	11 46	20	12 51	21	11 46
23	14	..	16	18 8	18	21 17	20	8 55	21	22 51	22	8 55
24	15	0 32	17	19 8	19	21 17	21	6 28	22	22 16	23	6 28
25	16	2 58	18	21 14	20	21 17	22	3 0	23	22 16	24	8 55
26	17	5 21	19	23 9	21	21 17	23	3 0	24	22 16	25	6 28
27	18	7 32	20	23 9	22	21 17	24	3 0	25	22 16	26	4 32
28	19	9 29	21	23 12	23	21 17	25	3 0	26	22 16	27	3 8
29	20	11 7	22	23 0	24	21 17	26	3 0	27	22 16	28	4 32
30	21	12 21	23	22 14	25	21 17	27	3 0	28	22 16	29	4 32
31	22	13 2	24	20 57	26	21 17	28	3 0	29	22 16	30	3 8
	23	13 10	25	19 6	27	20 17	29	3 0	30	22 16	31	3 8
	24	12 42	26	16 43	28	..	30	3 0	31	22 16		..

36 Distances apart of all δ s and ϵ s in 1956.—(cont.)

Date.	Aspect	Time.	Dis- tance.	Date.	Aspect	Time.	Dis- tance.	Date.	Aspect	Time.	Dis- tance.
June				August				October			
5	D	δ ψ	15 14 4 48	1	D	δ ψ	10 5 2 45	21	D	δ ψ	H. M. ° 4 24 0 20
7	D	δ ψ	18 39 2 53	3	D	δ ψ	18 7 2 50	22	D	δ ψ	20 44 4 1
9	D	δ ψ	22 0 4 29	4	D	δ ψ	17 15 8 49	25	D	δ ψ	2 19 1 50
10	D	δ ψ	2 58 0 6	6	D	δ ψ	0 11 4 47	26	D	δ ψ	18 46 2 24
11	D	δ ψ	9 49 3 17	7	D	δ ψ	14 55 14 38	29	D	δ ψ	22 34 5 10
13	D	δ ψ	22 28 4 44	8	D	δ ψ	16 55 4 33	November			
14	D	δ ψ	16 54 6 16	9	D	δ ψ	23 43 5 41	1	D	δ ψ	4 18 7 44
16	D	δ ψ	17 35 14 54	10	D	δ ψ	4 14 5 37	2	D	δ ψ	13 8 14 47
18	D	δ ψ	9 28 7 54	11	D	δ ψ	8 44 6 3	3	D	δ ψ	19 43 5 2
20	D	δ ψ	21 0 9 2	12	D	δ ψ	22 0 0 8	4	D	δ ψ	11 46 2 46
21	D	δ ψ	6 24 4 47	13	D	δ ψ	20 14 4 24	5	D	δ ψ	9 55 3 34
22	D	δ ψ	15 18 3 20	14	D	δ ψ	1 35 2 33	6	D	δ ψ	18 1 3 57
23	D	δ ψ	10 49 3 20	15	D	δ ψ	17 30 4 48	7	D	δ ψ	21 27 10 15
25	D	δ ψ	12 15 4 52	16	D	δ ψ	1 55 6 20	8	D	δ ψ	0 52 1 37
27	D	δ ψ	8 45 0 17	17	D	δ ψ	17 56 14 38	9	D	δ ψ	13 1 5 12
28	D	δ ψ	11 45 2 8	18	D	δ ψ	18 0 9 59	10	D	δ ψ	11 44 14 55
29	D	δ ψ	22 40 4 42	19	D	δ ψ	18 8 4 37	11	D	δ ψ	10 42 5 25
	D	δ ψ	2 48 14 51	20	D	δ ψ	15 29 5 30	12	D	δ ψ	14 12 7 46
	D	δ ψ	5 56 5 48	21	D	δ ψ	17 34 7 18	13	D	δ ψ	2 24 2 12
	D	δ ψ	11 21 8 24	22	D	δ ψ	1 43 2 42	14	D	δ ψ	14 44 5 30
July				23	D	δ ψ	13 37 4 17	15	D	δ ψ	22 51 2 29
2	D	δ ψ	23 38 4 41	24	D	δ ψ	17 46 2 18	16	D	δ ψ	5 39 3 55
3	D	δ ψ	23 45 3 18	25	D	δ ψ	17 46 2 18	17	D	δ ψ	13 4 1 29
5	D	δ ψ	2 17 2 52	September				18	D	δ ψ	20 0 1 36
6	D	δ ψ	22 25 3 33	1	D	δ ψ	17 37 1 12	19	D	δ ψ	21 36 0 12
7	D	δ ψ	10 2 1 49	2	D	δ ψ	12 40 4 51	20	D	δ ψ	5 39 5 20
8	D	δ ψ	10 7 3 15	3	D	δ ψ	2 48 14 42	21	D	δ ψ	20 55 15 13
9	D	δ ψ	10 49 4 41	4	D	δ ψ	21 36 0 54	22	D	δ ψ	22 57 6 51
11	D	δ ψ	3 20 0 9	5	D	δ ψ	0 21 5 29	23	D	δ ψ	12 38 1 43
12	D	δ ψ	9 7 5 44	6	D	δ ψ	0 30 4 36	24	D	δ ψ	21 20 1 43
15	D	δ ψ	14 20 8 51	7	D	δ ψ	12 37 9 24	25	D	δ ψ	20 25 0 26
17	D	δ ψ	12 8 4 42	8	D	δ ψ	22 23 0 35	November			
20	D	δ ψ	18 53 2 52	9	D	δ ψ	6 32 4 9	2	D	δ ψ	4 33 3 54
23	D	δ ψ	0 23 3 50	10	D	δ ψ	11 34 2 12	3	D	δ ψ	9 17 3 10
25	D	δ ψ	2 12 1 32	11	D	δ ψ	3 29 5 27	4	D	δ ψ	22 17 1 28
27	D	δ ψ	2 59 4 16	12	D	δ ψ	22 48 2 10	5	D	δ ψ	15 24 1 16
30	D	δ ψ	8 8 0 4	13	D	δ ψ	2 17 5 1	6	D	δ ψ	21 59 5 23
	D	δ ψ	11 31 6 13	14	D	δ ψ	3 17 5 1	7	D	δ ψ	20 59 15 12
	D	δ ψ	10 14 0 20	15	D	δ ψ	2 24 14 48	8	D	δ ψ	2 40 0 5
	D	δ ψ	21 3 0 33	16	D	δ ψ	8 7 3 7	9	D	δ ψ	11 38 4 52
	D	δ ψ	22 9 5 38	17	D	δ ψ	9 53 5 16				
	D	δ ψ	11 20 6 32	18	D	δ ψ	11 18 9 28				
	D	δ ψ	7 0 4 31	19	D	δ ψ	8 48 1 52				
	D	δ ψ		20	D	δ ψ	2 13 4 2				

Distances apart of all ϵ s and δ s in 1956.—(concl.). 37

Date.	Aspect	Time.	Dis- tance.	Date.	Aspect	Time	Dis- tance.	Date.	Aspect	Time.	Dis- tance.
				December.							
13	D	δ ψ	23 30 0 9	19	D	δ ψ	H. M. ° 8 59 6 28	25	D	δ ψ	4 34 3 32
15	D	δ ψ	16 14 4 53	20	D	δ ψ	17 58 5 21	26	D	δ ψ	20 46 3 43
16	D	δ ψ	16 33 3 52	22	D	δ ψ	9 3 15 21	27	D	δ ψ	1 25 0 28
18	D	δ ψ	12 15 0 17	24	D	δ ψ	12 51 3 38	28	D	δ ψ	18 14 0 37
19	D	δ ψ	15 10 0 59	25	D	δ ψ	4 34 3 32	29	D	δ ψ	0 52 0 19
22	D	δ ψ	2 34 1 1	26	D	δ ψ	21 8 4 15				
23	D	δ ψ	2 47 2 41	27	D	δ ψ	4 10 3 46				
25	D	δ ψ	11 17 5 22	28	D	δ ψ	20 41 1 43				
26	D	δ ψ	2 48 15 19	29	D	δ ψ	18 21 0 45				
27	D	δ ψ	21 41 0 3								
29	D	δ ψ	21 48 0 8								

(contd. from page 21)

Additional Phenomena for OCTOBER 1956

Date	Time	Phenomena
	H. M.	
26	23 36	D at Last Quarter.
27	11 5	D at Perigee.
30	4 2	D on Equator.

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
January											
8	♂	♂	12	♂	♂	23	♂	♂	14	♂	♂
8	♂	♂	12	♂	♂	25	♂	♂	14	♂	♂
9	♂	♂	10	♂	♂	27	♂	♂	1	♂	♂
11	♂	♂	12	♂	♂	28	♂	♂	7	♂	♂
13	♂	♂	13	♂	♂	30	♂	♂	0	♂	♂
21	♂	♂	21	♂	♂	31	♂	♂	1	♂	♂
22	♂	♂	22	♂	♂				6	♂	♂
27	♂	♂	27	♂	♂				23	♂	♂
29	♂	♂	29	♂	♂				11	♂	♂
30	♂	♂	30	♂	♂						
31	♂	♂	31	♂	♂						
February											
1	♂	♂	3	♂	♂	7	♂	♂	8	♂	♂
2	♂	♂	5	♂	♂	8	♂	♂	9	♂	♂
3	♂	♂	1	♂	♂	11	♂	♂	11	♂	♂
4	♂	♂	23	♂	♂	12	♂	♂	12	♂	♂
5	♂	♂	9	♂	♂	13	♂	♂	13	♂	♂
6	♂	♂	18	♂	♂	14	♂	♂	14	♂	♂
7	♂	♂	16	♂	♂	15	♂	♂	15	♂	♂
8	♂	♂	20	♂	♂	16	♂	♂	16	♂	♂
9	♂	♂	24	♂	♂	17	♂	♂	17	♂	♂
10	♂	♂	22	♂	♂	18	♂	♂	18	♂	♂
11	♂	♂	11	♂	♂	19	♂	♂	19	♂	♂
12	♂	♂	2	♂	♂	20	♂	♂	20	♂	♂
13	♂	♂	2	♂	♂	21	♂	♂	21	♂	♂
14	♂	♂	2	♂	♂	22	♂	♂	22	♂	♂
15	♂	♂	5	♂	♂	23	♂	♂	23	♂	♂
16	♂	♂	13	♂	♂	24	♂	♂	24	♂	♂
17	♂	♂	13	♂	♂	25	♂	♂	25	♂	♂
18	♂	♂	19	♂	♂	26	♂	♂	26	♂	♂
19	♂	♂	8	♂	♂	27	♂	♂	27	♂	♂
20	♂	♂	13	♂	♂	28	♂	♂	28	♂	♂
21	♂	♂	13	♂	♂	29	♂	♂	29	♂	♂
22	♂	♂	15	♂	♂	30	♂	♂	30	♂	♂
23	♂	♂	15	♂	♂						
24	♂	♂	19	♂	♂						
25	♂	♂	8	♂	♂						
26	♂	♂	18	♂	♂						
27	♂	♂	19	♂	♂						
28	♂	♂	20	♂	♂						
29	♂	♂	22	♂	♂						
30	♂	♂	16	♂	♂						
31	♂	♂	18	♂	♂						
March											
2	♂	♂	2	♂	♂	7	♂	♂	8	♂	♂
3	♂	♂	5	♂	♂	8	♂	♂	9	♂	♂
4	♂	♂	6	♂	♂	9	♂	♂	10	♂	♂
5	♂	♂	12	♂	♂	11	♂	♂	11	♂	♂
5	♂	♂	10	♂	♂	12	♂	♂	12	♂	♂
5	♂	♂	23	♂	♂	13	♂	♂	13	♂	♂
6	♂	♂	22	♂	♂	14	♂	♂	14	♂	♂
7	♂	♂	1	♂	♂	15	♂	♂	15	♂	♂
7	♂	♂	15	♂	♂	16	♂	♂	16	♂	♂
8	♂	♂	5	♂	♂	17	♂	♂	17	♂	♂
8	♂	♂	5	♂	♂	18	♂	♂	18	♂	♂
9	♂	♂	13	♂	♂	19	♂	♂	19	♂	♂
10	♂	♂	14	♂	♂	20	♂	♂	20	♂	♂
11	♂	♂	16	♂	♂	21	♂	♂	21	♂	♂
12	♂	♂	2	♂	♂	22	♂	♂	22	♂	♂
13	♂	♂	2	♂	♂	23	♂	♂	23	♂	♂
14	♂	♂	2	♂	♂	24	♂	♂	24	♂	♂
15	♂	♂	5	♂	♂	25	♂	♂	25	♂	♂
16	♂	♂	8	♂	♂	26	♂	♂	26	♂	♂
17	♂	♂	14	♂	♂	27	♂	♂	27	♂	♂
18	♂	♂	14	♂	♂	28	♂	♂	28	♂	♂
19	♂	♂	5	♂	♂	29	♂	♂	29	♂	♂
20	♂	♂	13	♂	♂	30	♂	♂	30	♂	♂
21	♂	♂	18	♂	♂						
22	♂	♂	19	♂	♂						
23	♂	♂	2	♂	♂						
24	♂	♂	5	♂	♂						
25	♂	♂	8	♂	♂						
26	♂	♂	18	♂	♂						
27	♂	♂	19	♂	♂						
28	♂	♂	20	♂	♂						
29	♂	♂	22	♂	♂						
30	♂	♂	16	♂	♂						
31	♂	♂	18	♂	♂						
April											
1	♂	♂	2	♂	♂	1	♂	♂	2	♂	♂
1	♂	♂	9	♂	♂	2	♂	♂	9	♂	♂
2	♂	♂	17	♂	♂	3	♂	♂	17	♂	♂
3	♂	♂	13	♂	♂	4	♂	♂	13	♂	♂
4	♂	♂	20	♂	♂	5	♂	♂	20	♂	♂
5	♂	♂	9	♂	♂	6	♂	♂	9	♂	♂
6	♂	♂	24	♂	♂	7	♂	♂	24	♂	♂
7	♂	♂	13	♂	♂	8	♂	♂	13	♂	♂
8	♂	♂	5	♂	♂	9	♂	♂	5	♂	♂
9	♂	♂	34	♂	♂	10	♂	♂	34	♂	♂
10	♂	♂	30	♂	♂	11	♂	♂	30	♂	♂
11	♂	♂	18	♂	♂	12	♂	♂	18	♂	♂
12	♂	♂	20	♂	♂	13	♂	♂	20	♂	♂
13	♂	♂	22	♂	♂	14	♂	♂	22	♂	♂
14	♂	♂	18	♂	♂	15	♂	♂	18	♂	♂
15	♂	♂	22	♂	♂	16	♂	♂	22	♂	♂
16	♂	♂	20	♂	♂	17	♂	♂	20	♂	♂
17	♂	♂	19	♂	♂	18	♂	♂	19	♂	♂
18	♂	♂	22	♂	♂	19	♂	♂	22	♂	♂
19	♂	♂	22	♂	♂	20	♂	♂	22	♂	♂
20	♂	♂	17	♂	♂	21	♂	♂	17	♂	♂
21	♂	♂	17	♂	♂	22	♂	♂	17	♂	♂
22	♂	♂	19	♂	♂	23	♂	♂	19	♂	♂
23	♂	♂	21	♂	♂	24	♂	♂	21	♂	♂
24	♂	♂	22	♂	♂	25	♂	♂	22	♂	♂
25	♂	♂	24	♂	♂	26	♂	♂	24	♂	♂
26	♂	♂	24	♂	♂	27	♂	♂	26	♂	♂
27	♂	♂	18	♂	♂	28	♂	♂	27	♂	♂
28	♂	♂	20	♂	♂	29	♂	♂	28	♂	♂
29	♂	♂	22	♂	♂	30	♂	♂	29	♂	♂
30	♂	♂	23	♂	♂						
31	♂	♂	11	♂	♂						
May											
2	♂	♂	22	♂	♂	2	♂	♂	22	♂	♂
3	♂	♂	15	♂	♂	3	♂	♂	15	♂	♂
4	♂	♂	12	♂	♂	4	♂	♂	12	♂	♂
5	♂	♂	9	♂	♂	5	♂	♂	9	♂	♂
6	♂	♂	7	♂	♂	6	♂	♂	7	♂	♂
7	♂	♂	40	♂	♂	7	♂	♂	40	♂	♂
8	♂	♂	21	♂	♂	8	♂	♂	21	♂	♂
9	♂	♂	12	♂	♂	9	♂	♂	12	♂	♂
10	♂	♂	29	♂	♂	10	♂	♂	29	♂	♂
11	♂	♂	12	♂	♂	11	♂	♂	12	♂	♂
12	♂	♂	27	♂	♂	12	♂	♂	27	♂	♂
13	♂	♂	27	♂	♂	13	♂	♂	27	♂	♂
14	♂	♂	27	♂	♂	14	♂	♂	27	♂	♂
15	♂	♂	15	♂	♂	15	♂	♂	15	♂	♂
16	♂	♂	12	♂	♂	16	♂	♂	12	♂	♂
17	♂	♂	9	♂	♂	17	♂	♂	9	♂	♂
18	♂	♂	2	♂	♂	18	♂	♂	2	♂	♂
19	♂	♂	2	♂	♂	19	♂	♂	2	♂	♂
20	♂	♂	19	♂	♂	20	♂	♂	19	♂	♂
21	♂	♂	19	♂	♂	21	♂	♂	19	♂	♂
22	♂	♂	12	♂	♂	22	♂	♂	12	♂	♂
23	♂	♂	9	♂	♂	23	♂	♂	9	♂	♂
24	♂	♂	21	♂	♂	24	♂	♂	21	♂	♂
25	♂	♂	20	♂	♂	25	♂	♂	20	♂	♂
26	♂	♂	21	♂	♂	26	♂	♂	21	♂	♂
27	♂	♂	19	♂	♂	27	♂	♂	19	♂	♂
28	♂	♂	19	♂	♂	28	♂	♂	19	♂	♂
29	♂	♂	12	♂	♂	29	♂	♂	12	♂	♂
30	♂	♂	9	♂	♂	30	♂	♂	9	♂	♂
31	♂	♂	2	♂							

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
January											
		H. M.			H. M.			H. M.			H. M.
1	♁	8 57	11	♁	13 47	21	♁	8 45	30	♁	7 58
	♂	14 36		♂	18 23		♂	16 55		♂	10 47
	♃	15 38		♃	21 50		♃	1 4		♃	11 31
	♄	20 22		♄	8 5		♄	4 7		♄	16 50
	♅	21 22		♅	8 24		♅	5 25		♅	2 58
2	♁	1 1	12	♁	11 48		♁	5 20		♁	10 34
	♂	1 4		♂	12 41		♂	5 52		♂	11 25
	♃	17 56		♃	13 25		♃	12 44		♃	11 26
	♄	18 37		♄	4 30		♄	13 4		♄	15 58
	♅	20 8		♅	8 9	22	♅	2 29	31	♅	3 51
3	♁	1 3	13	♁	14 52	23	♁	5 7		♁	8 34
	♂	2 39		♂	16 21		♂	7 42		♂	9 57
	♃	14 43		♃	18 30		♃	8 57		♃	13 11
	♄	23 41		♄	19 28		♄	9 15		♄	14 59
4	♁	0 19	14	♁	1 26		♁	10 2		♁	15 57
	♂	1 26		♂	8 30		♂	12 23		♂	
	♃	1 51		♃	14 21		♃	18 54		♃	
	♄	3 41		♄	21 6	24	♄	2 54	1	♄	8 26
	♅	5 15		♅	0 22		♅	2 35		♅	9 35
	♁	19 21		♁	1 32		♁	9 46		♁	8 32
5	♁	4 48	15	♁	2 4	25	♁	10 8		♁	12 24
	♂	3 4		♂	0 59		♂	14 59		♂	18 3
	♃	4 17		♃	8 36		♃	6 24		♃	21 27
	♄	5 36		♄	8 47		♄	8 37		♄	14 39
6	♁	6 4	16	♁	12 35		♁	10 2	2	♁	15 54
	♂	6 46		♂	12 53		♂	10 29		♂	18 44
	♃	8 8		♃	12 58		♃	11 28		♃	19 5
	♄	8 14		♄	13 19		♄	17 0		♄	19 56
	♅	10 22		♅	15 12	26	♅	21 57	3	♅	22 10
7	♁	11 58	17	♁	9 41		♁	1 57		♁	4 34
	♂	13 18		♂	14 0		♂	6 24		♂	21 2
	♃	13 22		♃	17 59		♃	8 27		♃	24 42
	♄	17 27		♄	18 11		♄	11 31		♄	12 53
	♅	22 41		♅	18 47		♅	22 56		♅	1 8
8	♁	19 29	18	♁	16 47		♁	23 56		♁	1 47
	♂	22 41		♂	18 8		♂	3 55		♂	2 41
	♃	15 34		♃	18 47		♃	6 13		♃	5 8
	♄	19 32		♄	21 37		♄	8 7		♄	6 43
	♅	22 19		♅	22 26		♅	9 41		♅	7 13
9	♁	0 35	19	♁	22 32		♁	10 17		♁	9 56
	♂	0 47		♂	22 41		♂	11 28		♂	11 20
	♃	4 25		♃	0 29		♃	20 13		♃	12 28
	♄	6 7		♄	1 13		♄	23 54		♄	12 55
10	♁	7 4	20	♁	2 25	28	♁	5 55		♁	15 18
	♂	7 4		♂	2 38		♂	0 31		♂	8 20
	♃			♃			♃	0 18		♃	13 46
	♄			♄			♄	0 6		♄	13 53

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
February											
		H. M.			H. M.			H. M.			H. M.
7	♁	13 55	18	♁	12 59		♁	14 30		♁	10 4
	♂	17 46		♂	14 30		♂	0 9		♂	11 9
	♃	19 29		♃	0 0		♃	4 4		♃	16 9
	♄	22 27		♄	0 0		♄	5 5		♄	17 56
8	♁	0 46	19	♁	20 7		♁	5 37		♁	10 41
	♂	4 46		♂	20 16		♂	8 3		♂	13 48
	♃	5 6		♃	5 6		♃	10 10		♃	14 51
	♄	5 9		♄	5 5		♄	11 5		♄	15 54
9	♁	5 5	20	♁	2 2		♁	2 24		♁	19 29
	♂	5 5		♂	2 2		♂	4 46		♂	21 22
	♃	17 18		♃	2 4		♃	6 18		♃	9 28
	♄	18 9		♄	2 4		♄	8 8		♄	15 31
10	♁	11 24	21	♁	13 3		♁	9 9		♁	17 36
	♂	13 3		♂	13 7		♂	11 25		♂	0 51
	♃	20 22		♃	20 22		♃	13 45		♃	13 25
	♄	3 8		♄	3 8		♄	16 43		♄	18 49
11	♁	12 40	22	♁	12 40		♁	18 49		♁	21 40
	♂	13 30		♂	13 30		♂	22 28		♂	22 28
	♃	15 21		♃	15 21		♃	3 49		♃	3 49
	♄	17 9		♄	17 9		♄	12 8		♄	12 8
12	♁	19 5	23	♁	22 26		♁	16 13		♁	16 13
	♂	21 27		♂	22 26		♂	23 16		♂	23 16
	♃	14 39		♃	14 39		♃	0 17		♃	12 31
	♄	15 49		♄	15 49		♄	12 31		♄	13 49
13	♁	18 44	24	♁	19 5		♁	15 5		♁	15 5
	♂	19 56		♂	19 56		♂	22 10		♂	18 8
	♃	22 10		♃	22 10		♃	4 34		♃	17 31
	♄	4 34		♄	4 34		♄	21 10		♄	22 28
14	♁	21 57	25	♁	21 57		♁	20 8		♁	23 49
	♂	24 24		♂	24 24		♂	23 35		♂	23 35
	♃	8 27		♃	8 27		♃	3 57		♃	8 50
	♄	12 53		♄	12 53		♄	7 28		♄	15 21
15	♁	1 8	26	♁	1 8		♁	12 26		♁	21 26
	♂	1 47		♂	1 47		♂	23 46		♂	12 56
	♃	2 41		♃	2 41		♃	0 44		♃	15 55
	♄	5 8		♄	5 8		♄	2 13		♄	17 0
16	♁	6 43	27	♁	6 43		♁	11 14		♁	18 49
	♂	7 56		♂	7 56		♂	19 44		♂	21 4
	♃	9 13		♃	9 13		♃	3 50		♃	0 7
	♄	11 20		♄	11 20		♄	7 28		♄	12 55
17	♁	12 28	28	♁	12 28		♁	12 55		♁	15 18
	♂	12 55		♂	12 55		♂	1 15		♂	8 20
	♃	15 18		♃	15 18		♃	8 20		♃	13 46
	♄	20 28		♄	20 28		♄	13 46		♄	13 53

March

1	♁	2 6	11	♁	1 42		♁	1 42		♁	1 42
	♂	4 43		♂	4 43		♂	8 43		♂	8 43
	♃	5 47		♃	5 47		♃	16 11		♃	16 11
	♄	9 20		♄	9 20		♄	3 21		♄	3 21
2	♁	1 22	12	♁	1 22		♁	15 48		♁	15 48
	♂	11 30		♂	11 30		♂	19 9		♂	19 9
	♃	11 58		♃	11 58		♃	21 48		♃	21 48
	♄	2 24		♄	2 24		♄	3 56		♄	3 56
3	♁	2 58	13	♁	2 58		♁	7 7		♁	7 7
	♂	7 46		♂	7 46		♂	15 5		♂	15 5
	♃	11 9		♃	11 9		♃	21 54		♃	21 54
	♄	14 1		♄	14 1		♄	1 2		♄	1 2
4	♁	18 32	14	♁	18 32		♁	2 40		♁	2 40
	♂	19 10		♂	19 10		♂	7 15		♂	7 15
	♃	16 58		♃	16 58		♃	18 12		♃	18 12
	♄	17 24		♄	17 24		♄	22 22		♄	22 22
5	♁	21 57	15	♁	21 57		♁	3 51		♁	3 51
	♂	7 5		♂	7 5		♂	6 4		♂	6 4
	♃	14 17		♃	14 17		♃	10 6		♃	10 6
	♄	19 48		♄	19 48		♄	13 14		♄	13 14
6	♁	20 46	16	♁	20 46		♁	15 53		♁	15 53
	♂	23 17		♂	23 17		♂	20 58		♂	20 58
	♃	2 18		♃	2 18		♃	4 42		♃	4 42
	♄	7 43		♄	7 43		♄	8 30		♄	8 30
	♅	10 34		♅	10 34		♅	10 49		♅	10 49
	♁	17 44		♁	17 44		♁	10 57		♁	10 57

Date.	Aspect	Time.									
		H. M.									
17	♄	8 28	20	♄	2 31	2	♄	8 49	15	♄	7 53
	♅	14 35		♅	5 35		♅	15 31		♅	19 14
	♆	14 53		♆	3 0		♆	19 19		♆	20 28
	♇	15 5		♇	8 6		♇	21 46		♇	1 30
	♈	17 53		♈	18 33		♈	23 50		♈	3 2
	♉	20 29		♉	18 45		♉	3 36		♉	4 23
	♊	1 30		♊	21 9		♊	7 4		♊	13 35
	♋	16 8		♋	4 38		♋	7 11		♋	15 23
	♌	17 21		♌	15 29		♌	17 55		♌	22 29
	♍	17 50		♍	16 14		♍	23 51		♍	23 23
	♎	19 49		♎	23 28		♎	2 58		♎	2 51
	♏	22 21		♏	23 39		♏	6 41		♏	4 19
	♐	0 0		♐	7 26		♐	8 56		♐	6 54
	♑	11 58		♑	10 41		♑	14 26		♑	8 50
	♒	18 31		♒	11 26		♒	14 16		♒	16 42
	♓	21 16		♓	13 10		♓	16 5		♓	19 6
	♈	21 28		♈	18 38		♈	18 3		♈	20 0
	♉	22 43		♉	5 8		♉	6 8		♉	2 49
	♊	4 2		♊	20 10		♊	11 16		♊	5 5
	♋	4 58		♋	2 29		♋	13 4		♋	5 5
	♌	13 22		♌	7 3		♌	21 36		♌	2 6
	♍	23 30		♍	11 50		♍	2 48		♍	4 59
	♎	0 0		♎	12 15		♎	3 42		♎	5 40
	♏	2 21		♏	15 32		♏	7 3		♏	6 2
	♐	6 6		♐	19 5		♐	11 35		♐	6 59
	♑	14 35		♑	21 40		♑	15 4		♑	11 26
	♒	21 16		♒	3 23		♒	17 2		♒	12 5
	♓	0 12		♓	6 20		♓	22 4		♓	6 11
	♈	2 39		♈	9 5		♈	4 38		♈	9 9
	♉	5 17		♉	19 45		♉	6 6		♉	21 13
	♊	7 7		♊	19 45		♊	14 34		♊	20 14
	♋	7 35		♋	19 45		♋	0 52		♋	5 56
	♌	4 23		♌	4 23		♌	8 7		♌	10 9
	♍	7 38		♍	7 38		♍	8 46		♍	12 4
	♎	8 20		♎	8 20		♎	9 26		♎	14 33
	♏	11 50		♏	11 50		♏	12 13		♏	17 53
	♐	16 43		♐	16 43		♐	17 13		♐	10 54
	♑	23 35		♑	23 35		♑	19 24		♑	12 2
	♒	2 34		♒	2 34		♒	19 44		♒	16 3
	♓	4 58		♓	4 58		♓	24 28		♓	16 45
	♈	6 46		♈	6 46		♈	3 4		♈	17 50
	♉	9 58		♉	9 58		♉	14 9		♉	21 14
	♊	11 26		♊	11 26		♊	12 32		♊	17 14
	♋	3 54		♋	3 54		♋	15 52		♋	1 12
	♌	6 20		♌	6 20		♌	20 37		♌	1 15
	♍	9 27		♍	9 27		♍	0 3		♍	1 18
	♎	14 27		♎	14 27		♎	1 38		♎	18 45
	♏	19 17		♏	19 17		♏	1 45		♏	20 30
	♐	22 6		♐	22 6		♐	6 18		♐	0 9

April

45

Timings of Lunar Aspects in 1956.—(contd.)

Date.	Aspect	Time.									
		H. M.									
	♄	1 1		♄	15 49		♄	14 22		♄	14 22
	♅	3 45		♅	23 41		♅	15 6		♅	16 17
	♆	11 58		♆	0 27		♆	16 17		♆	21 47
	♇	21 28		♇	6 27		♇	16 17		♇	21 47
	♈	1 51		♈	10 15		♈	21 40		♈	21 40
	♉	6 48		♉	12 59		♉	3 26		♉	3 26
	♊	5 58		♊	10 59		♊	3 53		♊	3 53
	♋	5 52		♋	12 57		♋	6 41		♋	6 41
	♌	15 18		♌	17 31		♌	17 27		♌	17 27
	♍	19 22		♍	18 25		♍	19 1		♍	19 1
	♎	0 46		♎	1 13		♎	0 27		♎	0 27
	♏	7 14		♏	2 3		♏	1 33		♏	1 33
	♐	10 17		♐	3 25		♐	2 43		♐	2 43
	♑	16 41		♑	7 6		♑	6 51		♑	6 51
	♒	10 17		♒	13 29		♒	10 43		♒	10 43
	♓	16 41		♓	19 17		♓	12 47		♓	12 47
	♈	13 33		♈	19 17		♈	12 51		♈	12 51
	♉	14 48		♉	2 6		♉	12 58		♉	12 58
	♊	23 31		♊	4 11		♊	20 38		♊	20 38
	♋	23 48		♋	4 29		♋	0 53		♋	0 53
	♌	3 58		♌	7 53		♌	16 4		♌	16 4
	♍	4 44		♍	11 40		♍	18 25		♍	18 25
	♎	9 15		♎	12 33		♎	13 3		♎	13 3
	♏	21 17		♏	14 13		♏	16 45		♏	16 45
	♐	22 43		♐	22 0		♐	18 4		♐	18 4
	♑	9 17		♑	5 6		♑	21 56		♑	21 56
	♒	9 59		♒	6 10		♒	23 49		♒	23 49
	♓	15 53		♓	6 16		♓	0 0		♓	0 0
	♈	16 26		♈	4 16		♈	9 53		♈	9 53
	♉	23 36		♉	4 51		♉	13 48		♉	13 48
	♊	4 31		♊	10 31		♊	19 12		♊	19 12
	♋	5 32		♋	10 49		♋	20 17		♋	20 17
	♌	6 1		♌	14 20		♌	20 17		♌	20 17
	♍	10 24		♍	16 47		♍	20 23		♍	20 23
	♎	15 12		♎	0 10		♎	20 29		♎	20 29
	♏	15 47		♏	2 57		♏	5 53		♏	5 53
	♐	17 19		♐	7 43		♐	14 49		♐	14 49
	♑	7 49		♑	16 19		♑	22 48		♑	22 48
	♒	7 7		♒	17 35		♒	2 2		♒	2 2
	♓	10 23		♓	17 35		♓	6 39		♓	6 39
	♈	14 23		♈	9 24		♈	8 25		♈	8 25
	♉	14 43		♉	9 24		♉	10 25		♉	10 25
	♊	22 23		♊	15 2		♊	12 4		♊	12 4
	♋	11 55		♋	18 53		♋	13 17		♋	13 17
	♌	12 51		♌	19 22		♌	19 56		♌	19 56
	♍	18 32		♍	20 20		♍	7 51		♍	7 51
	♎	22 44		♎	21 14		♎	8 30		♎	8 30
	♏	4 57		♏	9 52		♏	14 45		♏	14 45
	♐	9 29		♐	10 18		♐	15 12		♐	15 12
	♑	9 29		♑	11 50		♑	19 6		♑	19 6
	♒	15 1		♒	11 44		♒	22 40		♒	22 40
	♓	1 39		♓	12 31		♓	23 47		♓	23 47
	♈	9 42		♈	18 6						
	♉	10 19		♉	0 0						

May

Date	Aspect	Time.	Date	Aspect	Time.	Date	Aspect	Time.	Date	Aspect	Time.
June											
		H. M.			H. M.			H. M.			H. M.
1	☉	1 47	10	☽	3 59	19	☽	16 31	30	☽	17 11
	☽	9 49		☽	9 49		☽	15 36		☽	20 36
	☽	15 4		☽	16 21		☽	11 8		☽	6 19
	☽	20 19		☽	19 0		☽	11 57		☽	12 40
2	☽	4 40		☽	23 15	20	☽	13 37		☽	13 53
	☽	7 18		☽	51		☽	14 36		☽	14 11
	☽	2 15	11	☽	6 18		☽	15 18		☽	15 42
	☽	5 29		☽	15 19		☽	16 0		☽	22 19
	☽	8 47		☽	16 25		☽	18 49		☽	
	☽	9 48		☽	18 48		☽	21 35		☽	
	☽	12 18		☽	18 58		☽	23 52		☽	
	☽	12 33		☽	22 26		☽	10 49		☽	
	☽	14 5		☽	23 51		☽	15 9		☽	
	☽	4 52	12	☽	5 55		☽	21 39		☽	
	☽	6 30		☽	8 9		☽	3 28		☽	
	☽	9 23		☽	8 38		☽	1 24		☽	
	☽	13 20		☽	8 38		☽	2 43		☽	
	☽	13 46		☽	10 28		☽	3 6		☽	
	☽	17 7		☽	16 54		☽	3 40		☽	
	☽	17 19		☽	17 35		☽	3 45		☽	
	☽	9 48		☽	19 57		☽	9 41		☽	
	☽	12 21		☽	19 58		☽	11 45		☽	
	☽	15 14		☽	23 59		☽	4 59		☽	
	☽	15 57		☽	2 44		☽	5 52		☽	
	☽	18 27		☽	8 58		☽	7 41		☽	
	☽	18 28		☽	9 28		☽	7 51		☽	
	☽	19 24		☽	21 26		☽	9 47		☽	
	☽	21 2		☽	1 41		☽	13 29		☽	
	☽	9 26		☽	17 31		☽	14 8		☽	
	☽	22 6		☽	21 0		☽	14 49		☽	
	☽	10 22		☽	21 15		☽	15 6		☽	
	☽	13 35		☽	23 26		☽	16 16		☽	
	☽	15 32		☽	23 39		☽	16 34		☽	
	☽	18 9		☽	4 9		☽	18 24		☽	
	☽	18 39		☽	9 7		☽	22 40		☽	
	☽	20 36		☽	11 26		☽	5 47		☽	
	☽	22 0		☽	16 6		☽	21 5		☽	
	☽	1 41		☽	0 14		☽	23 19		☽	
	☽	10 36		☽	0 17		☽	0 52		☽	
	☽	18 40		☽	2 21		☽	14 41		☽	
	☽	22 0		☽	13 55		☽	2 48		☽	
	☽	2 58		☽	20 45		☽	3 23		☽	
	☽	14 3		☽	4 1		☽	3 5		☽	
	☽	16 37		☽	4 19		☽	5 56		☽	
	☽	18 49		☽	4 22		☽	11 24		☽	
	☽	19 8		☽	5 54		☽	11 13		☽	
	☽	22 20		☽	6 24		☽	10 33		☽	
	☽	22 55		☽	11 24		☽	11 21		☽	

Date	Aspect	Time.	Date	Aspect	Time.	Date	Aspect	Time.	Date	Aspect	Time.
July											
		H. M.			H. M.			H. M.			H. M.
1	☽	8 40	18	☽	11 52	28	☽	21 32	5	☽	3 55
	☽	10 7		☽	15 57		☽	21 58		☽	8 34
	☽	11 23		☽	18 53		☽	23 1		☽	8 55
	☽	21 16		☽	20 39		☽	7 45		☽	15 25
	☽	2 47		☽	21 34		☽	9 58		☽	15 33
	☽	3 28		☽	5 56		☽	12 21		☽	18 13
	☽	4 31		☽	6 28		☽	23 47		☽	20 9
	☽	8 36		☽	0 9		☽	24 24		☽	0 11
	☽	10 49		☽	3 20		☽	9 5		☽	3 57
	☽	11 36		☽	3 20		☽	14 53		☽	8 20
	☽	16 25		☽	12 28		☽	21 31		☽	16 55
	☽	20 41		☽	18 57		☽	4 5		☽	20 52
	☽	11 58		☽	0 23		☽	14 5		☽	8 7
	☽	12 45		☽	6 38		☽	6 6		☽	12 18
	☽	20 3		☽	8 44		☽	16 32		☽	14 55
	☽	20 23		☽	8 54		☽	19 0		☽	14 59
	☽	2 34		☽	9 31		☽	19 13		☽	21 49
	☽	3 20		☽	9 42		☽	0 57		☽	23 43
	☽	4 20		☽	18 56		☽	1 1		☽	23 54
	☽	9 7		☽	19 6		☽	1 9		☽	4 14
	☽	10 58		☽	12 57		☽	5 9		☽	15 6
	☽	14 41		☽	15 9		☽	20 12		☽	20 12
	☽	0 30		☽	2 28		☽	0 0		☽	20 20
	☽	4 59		☽	9 2		☽	8 8		☽	8 44
	☽	11 55		☽	14 28		☽	13 3		☽	13 3
	☽	14 20		☽	19 18		☽	15 53		☽	15 53
	☽	17 29		☽	21 38		☽	15 53		☽	15 53
	☽	21 42		☽	22 19		☽	22 58		☽	22 58
	☽	4 19		☽	2 59		☽	1 30		☽	1 30
	☽	5 27		☽	8 0		☽	1 39		☽	6 36
	☽	6 26		☽	8 53		☽	6 36		☽	7 34
	☽	12 13		☽	11 31		☽	7 7		☽	7 36
	☽	13 45		☽	16 1		☽	14 35		☽	14 35
	☽	6 38		☽	21 38		☽	9 33		☽	17 34
	☽	7 48		☽	22 47		☽	14 35		☽	2 47
	☽	13 30		☽	4 44		☽	23 28		☽	9 11
	☽	15 13		☽	7 42		☽	7 56		☽	12 24
	☽	20 16		☽	10 14		☽	11 47		☽	13 16
	☽	2 25		☽	10 46		☽	12 21		☽	17 8
	☽	2 45		☽	20 32		☽	12 47		☽	20 14
	☽	9 43		☽	20 34		☽	15 16		☽	20 16
	☽	11 9		☽	22 9		☽	15 27		☽	6 42
	☽	12 8		☽	11 57		☽	18 7		☽	9 47
	☽	19 15		☽	16 35		☽	0 12		☽	15 47
	☽	20 21		☽	2 24		☽	3 36		☽	15 50
	☽	0 44		☽	4 45		☽	13 5		☽	20 33
	☽	6 6		☽	11 20		☽	14 16		☽	14 18
	☽	6 9		☽	18 6		☽	15 20		☽	15 52
	☽	8 8		☽	18 55		☽	15 44		☽	20 15

August

48 Timings of Lunar Aspects in 1956.—(contd.)

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
14	♄	1 35	25	☉	9 50	2	♃	2 8	12	♆	15 26
	♃	4 54		♄	16 29		♅	2 31		♄	18 40
	♂	5 1		♃	2 40		♂	12 40		♂	18 5
	♂	16 21		♂	6 19		♂	13 33		♂	18 8
	♂	23 13		♂	9 42		♂	15 49		♂	18 42
	♂	23 38		♂	15 31		♂	21 0		♂	18 47
15	♂	10 9		♂	16 51		♂	23 29		♂	18 8
	♂	22 47		♂	2 9		♂	13 11		♂	22 36
	♂	24 0		♂	7 32		♂	17 14		♂	22 46
16	♂	6 27		♂	10 44		♂	21 16		♂	22 8
	♂	12 7		♂	13 37		♂	21 15		♂	22 46
	♂	17 57		♂	14 0		♂	2 24		♂	22 46
	♂	16 20	♂	16 38	♂	2 48	♂	22 46			
	♂	16 32	♂	23 14	♂	12 54	♂	22 46			
	♂	4 24	♂	1 18	♂	18 37	♂	22 46			
17	♂	12 45	♂	5 40	♂	23 6	♂	22 46			
	♂	15 28	♂	11 53	♂	0 21	♂	22 46			
	♂	15 38	♂	22 49	♂	0 30	♂	22 46			
	♂	19 25	♂	3 21	♂	3 36	♂	22 46			
	♂	23 2	♂	8 36	♂	12 37	♂	22 46			
	♂	11 44	♂	17 46	♂	13 14	♂	22 46			
	♂	19 26	♂	20 26	♂	1 4	♂	22 46			
	♂	19 46	♂	4 3	♂	1 22	♂	22 46			
	♂	1 55	♂	7 45	♂	3 37	♂	22 46			
	♂	5 16	♂	9 42	♂	14 8	♂	22 46			
	♂	5 30	♂	18 22	♂	22 23	♂	22 46			
	♂	17 32	♂	22 51	♂	2 45	♂	22 46			
	♂	22 3	♂	9 57	♂	4 53	♂	22 46			
	♂	1 23	♂	12 28	♂	5 47	♂	22 46			
	♂	2 39	♂	22 6	♂	5 9	♂	22 46			
	♂	9 2	♂	0 33	♂	6 32	♂	22 46			
	♂	7 13	♂	0 57	♂	8 9	♂	22 46			
	♂	7 7	♂	11 24	♂	9 52	♂	22 46			
	♂	21 51	♂	11 38	♂	15 51	♂	22 46			
	♂	17 36	♂	16 43	♂	18 22	♂	22 46			
	♂	17 43	♂	22 1	♂	5 5	♂	22 46			
	♂	18 8	♂	23 14	♂	8 7	♂	22 46			
22	♂	5 46	September			9	♂	5 5	20	♂	8 8
	♂	15 29				♂	8 33		♂	9 9	
	♂	23 1				♂	15 15		♂	9 8	
23	♂	1 12				♂	18 42		♂	10 52	
	♂	11 23				♂	9 51		♂	12 21	
	♂	17 34				♂	11 34		♂	12 47	
	♂	1 26				♂	13 46		♂	1 17	
	♂	4 43				♂	14 17		♂	4 24	
	♂	4 28				♂	20 46		♂	15 25	
	♂	51				♂	2 39		♂	16 11	

49 Timings of Lunar Aspects in 1956.—(contd.)

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
			October								
		H. M.			H. M.			H. M.			H. M.
	♂	17 11	1	☉	1 47		♂	10 51		♂	17 39
	♂	19 23		♄	4 18		♂	11 14		♂	17 47
	♂	19 59		♄	12 3		♂	20 51	21	♂	4 39
	♂	19 30		♄	12 28		♂	13 37		♂	6 30
	♂	26 44		♄	12 51		♂	16 57		♂	13 2
	♂	21 10		♄	13 8		♂	17 31	22	♂	20 43
	♂	21 46		♄	0 13		♂	0 15		♂	8 40
	♂	22 47		♄	4 16		♂	3 25		♂	10 42
	♂	0 8		♄	12 18		♂	7 1		♂	11 0
	♂	9 21		♄	13 36		♂	19 51		♂	11 11
	♂	11 22		♄	19 43		♂	23 10		♂	13 4
	♂	1 46		♄	1 2		♂	5 52		♂	22 51
	♂	3 24		♄	9 58		♂	20 20	23	♂	11 42
	♂	4 9		♄	11 46		♂	0 5		♂	12 50
	♂	4 29		♄	14 23		♂	2 52		♂	13 20
	♂	12 36		♄	14 34		♂	10 17		♂	16 16
	♂	2 19		♄	14 49		♂	13 39		♂	22 17
	♂	3 20		♄	2 11		♂	15 31	24	♂	0 51
	♂	3 43		♄	9 55		♂	2 22		♂	1 42
	♂	8 30		♄	13 22		♂	12 22		♂	13 17
	♂	13 25		♄	14 10		♂	16 59		♂	15 14
	♂	15 34		♄	14 47		♂	18 16		♂	16 38
	♂	5 58		♄	19 46		♂	11 40		♂	17 19
	♂	6 33		♄	3 17		♂	12 52	25	♂	2 37
	♂	10 27		♄	8 8		♂	21 45		♂	15 50
	♂	14 34		♄	8 35		♂	1 2		♂	16 39
	♂	17 58		♄	15 23		♂	1 2		♂	19 10
	♂	8 8		♄	20 48		♂	2 39	26	♂	2 34
	♂	7 19		♄	0 18		♂	10 42		♂	5 46
	♂	8 30		♄	15 24		♂	14 12		♂	6 24
	♂	15 37		♄	19 19		♂	17 8		♂	17 45
	♂	16 54		♄	3 3		♂	4 54		♂	18 8
	♂	18 42		♄	0 57		♂	6 14		♂	18 31
	♂	9 0		♄	2 24		♂	10 17		♂	20 51
	♂	9 8		♄	15 18		♂	20 37		♂	23 36
	♂	10 2		♄	15 57		♂	21 57	27	♂	5 39
	♂	10 8		♄	1 26		♂	23 24		♂	7 26
	♂	14 49		♄	7 22		♂	24 46		♂	20 1
	♂	22 18		♄	9 53		♂	14 44		♂	19 23
	♂	10 32		♄	0 35		♂	23 32	28	♂	9 7
	♂	10 39		♄	0 52		♂	1 26		♂	12 0
	♂	11 8		♄	5 19		♂	2 2		♂	13 40
	♂	11 21		♄	13 30		♂	3 39		♂	20 55
	♂	13 12		♄	2 25		♂	14 4		♂	21 17
	♂	16 19		♄	5 13		♂	22 51		♂	23 52
	♂	22 34		♄	7 24		♂	3 17	29	♂	6 5
	♂	23 11		♄	14 36		♂	5 32		♂	8 22
	♂	11 19		♄	18 34		♂	5 39		♂	16 46
	♂	12 38		♄	9 28		♂	7 19		♂	22 46
	♂	17 34		♄	10 39		♂	7 55		♂	22 57

Table of Ascendants for Latitudes 21° to 34°.—(cont'd.)

Sid. Time.	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	31°	32°	33°	34°
H. M.	°	'	'	'	'	'	'	'	'	'	'	'	'	'
18	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
15	4 53	4 56	5 1	5 4	5 7	5 11	5 14	5 18	5 22	5 27	5 31	5 36	5 41	5 46
30	9 46	9 53	9 59	10 6	10 13	10 19	10 26	10 35	10 43	10 52	11 1	11 11	11 20	11 31
45	14 38	14 47	14 57	15 6	15 16	15 27	15 38	15 49	16 1	16 14	16 27	16 41	16 56	17 12
19	0 19	26 19	38 51	20 4	20 17	20 30	20 44	21 0	21 16	21 31	21 48	22 6	22 25	22 44
15	24 11	24 25	24 41	24 57	25 12	25 29	25 46	26 5	26 24	26 43	27 3	27 24	27 47	28 8
30	28 51	29 7	29 25	29 44	30 3	30 22	30 42	31 3	31 25	31 48	32 10	32 35	33 1	33 28
45	33 27	33 45	34 4	34 25	34 46	35 8	35 30	35 54	36 18	36 44	37 7	37 36	38 5	38 35
20	0 37	55 38	17 38	39 39	43 29	44 44	46 45	47 53	48 54	49 51	51 46	52 42	53 43	54 48
15	42 19	42 42	43 4	43 29	44 44	46 45	48 45	49 51	50 52	51 46	52 42	53 43	54 48	55 55
30	46 38	47 1	47 26	47 52	48 18	48 45	49 13	49 42	50 12	50 43	51 15	51 47	52 22	52 55
45	50 51	51 16	51 42	52 9	52 36	53 5	53 34	54 4	54 36	55 8	55 40	56 14	56 50	57 26
21	0 54	58 55	24 55	52 56	19 56	47 57	17 57	58 18	58 50	59 24	59 57	60 32	61 8	61 45
15	58 58	59 26	59 53	60 22	60 51	61 21	61 50	62 22	62 55	63 29	64 3	64 38	65 15	65 53
30	62 55	63 22	63 51	64 20	64 48	65 19	65 49	66 22	66 55	67 30	68 3	68 40	69 17	69 54
45	66 46	67 14	67 43	68 12	68 42	69 14	69 44	70 17	70 50	71 25	71 59	72 35	73 11	73 47
22	0 70	32 71	1 71	30 72	42 72	29 73	1 73	31 74	5 74	38 75	12 75	46 76	24 76	59 77
15	74 14	74 43	75 4	75 42	76 11	76 43	77 13	77 47	78 20	78 55	79 28	80 3	80 40	81 16
30	77 53	78 22	78 51	79 21	79 50	80 22	80 52	81 25	81 54	82 32	83 6	83 41	84 17	84 52
45	81 28	81 57	82 25	82 55	83 24	83 56	84 26	84 58	85 31	86 5	86 38	87 12	87 48	88 24
23	0 84	59 85	27 85	56 86	26 86	54 87	27 87	56 88	27 89	54 90	33 90	6 90	39 91	41 49
15	88 28	88 56	89 25	89 54	90 22	90 53	91 23	91 54	92 26	92 59	93 31	94 4	94 38	95 11
30	91 54	92 22	92 52	93 19	93 48	94 18	94 48	95 18	95 49	96 9	96 41	96 52	97 24	97 58
45	95 19	95 46	96 15	96 42	97 11	97 40	98 8	98 38	99 9	99 41	100 11	100 42	101 15	101 48
24	0 98	41 99	8 99	35 100	3 100	31 100	59 101	27 101	56 102	26 102	57 103	26 103	57 104	29 105

LOGARITHMIC TABLE.—(cont'd.)

Min.	Hours or Degrees.													
	0	1	2	3	4	5	6	7	8	9	10	11	12	Min
0	3.1584	1.3802	1.0792	.9031	.7781	.6812	.6021	.5351	.4771	.4260	.3802	.3388	.3000	0
1	3.1584	1.3730	1.0750	.9007	.7763	.6798	.6009	.5340	.4762	.4252	.3797	.3382	.3000	1
2	2.8573	1.3660	1.0726	.8983	.7745	.6785	.5997	.5330	.4753	.4244	.3788	.3375	.3000	2
3	2.6812	1.3590	1.0685	.8959	.7728	.6769	.5985	.5320	.4744	.4236	.3780	.3368	.3000	3
4	2.5563	1.3522	1.0649	.8935	.7710	.6755	.5973	.5310	.4735	.4228	.3773	.3362	.3000	4
5	2.4594	1.3454	1.0614	.8912	.7692	.6741	.5961	.5300	.4726	.4220	.3766	.3355	.3000	5
6	2.3802	1.3388	1.0580	.8888	.7674	.6726	.5949	.5289	.4717	.4212	.3759	.3349	.3000	6
7	2.3133	1.3323	1.0546	.8865	.7657	.6712	.5937	.5279	.4708	.4204	.3752	.3342	.3000	7
8	2.2553	1.3258	1.0511	.8842	.7639	.6698	.5925	.5269	.4699	.4196	.3745	.3336	.3000	8
9	2.2041	1.3195	1.0478	.8819	.7622	.6684	.5913	.5259	.4690	.4188	.3737	.3329	.3000	9
10	2.1584	1.3133	1.0444	.8796	.7604	.6670	.5902	.5249	.4682	.4180	.3730	.3323	.3000	10
11	2.1170	1.3071	1.0411	.8773	.7587	.6656	.5890	.5239	.4673	.4172	.3723	.3316	.3000	11
12	2.0792	1.3010	1.0378	.8751	.7570	.6642	.5878	.5229	.4664	.4164	.3716	.3310	.3000	12
13	2.0444	1.2950	1.0345	.8728	.7552	.6628	.5866	.5219	.4655	.4156	.3709	.3303	.3000	13
14	2.0122	1.2891	1.0313	.8706	.7535	.6614	.5855	.5209	.4646	.4148	.3702	.3297	.3000	14
15	1.9823	1.2833	1.0280	.8683	.7518	.6600	.5843	.5199	.4638	.4141	.3695	.3291	.3000	15
16	1.9542	1.2775	1.0248	.8661	.7501	.6587	.5832	.5189	.4629	.4133	.3688	.3284	.3000	16
17	1.9279	1.2719	1.0216	.8639	.7484	.6573	.5820	.5179	.4620	.4125	.3681	.3278	.3000	17
18	1.9031	1.2663	1.0185	.8617	.7467	.6559	.5809	.5169	.4611	.4117	.3674	.3271	.3000	18
19	1.8796	1.2607	1.0153	.8595	.7451	.6546	.5797	.5159	.4603	.4109	.3667	.3265	.3000	19
20	1.8573	1.2553	1.0122	.8573	.7434	.6532	.5786	.5149	.4594	.4102	.3660	.3258	.3000	20
21	1.8361	1.2499	1.0091	.8552	.7417	.6519	.5774	.5139	.4585	.4094	.3653	.3252	.3000	21
22	1.8159	1.2445	1.0061	.8531	.7401	.6505	.5761	.5129	.4577	.4086	.3646	.3246	.3000	22
23	1.7966	1.2393	1.0030	.8509	.7384	.6492	.5752	.5120	.4568	.4079	.3639	.3239	.3000	23
24	1.7781	1.2341	1.0000	.8487	.7368	.6478	.5740	.5110	.4559	.4071	.3632	.3233	.3000	24
25	1.7604	1.2289	.9970	.8466	.7351	.6465	.5729	.5100	.4551	.4063	.3625	.3227	.3000	25
26	1.7434	1.2239	.9940	.8445	.7335	.6451	.5718	.5090	.4542	.4055	.3618	.3220	.3000	26
27	1.7270	1.2188	.9910	.8424	.7318	.6438	.5706	.5081	.4534	.4048	.3611	.3214	.3000	27
28	1.7112	1.2139	.9881	.8403	.7302	.6425	.5695	.5071	.4525	.4040	.3604	.3208	.3000	28
29	1.6960	1.2090	.9852	.8382	.7286	.6412	.5684	.5061	.4516	.4032	.3597	.3201	.3000	29

LOGARITHMIC TABLE—(contd.)

64

Hours or Degrees.

Min.	0	1	2	3	4	5	6	7	8	9	10	11	Min.
30	1.6812	1.2041	.9823	.8361	.7270	.6398	.5673	.5051	.4508	.4025	.3590	.3195	30
31	1.6670	1.1933	.9794	.8341	.7254	.6385	.5662	.5042	.4499	.4017	.3583	.3189	31
32	1.6532	1.1806	.9708	.8279	.7222	.6359	.5640	.5023	.4482	.4002	.3570	.3176	32
33	1.6398	1.1692	.9632	.8219	.7179	.6320	.5607	.4994	.4457	.3979	.3549	.3157	33
34	1.6269	1.1582	.9570	.8179	.7143	.6294	.5585	.4975	.4440	.3964	.3535	.3145	34
35	1.6143	1.1480	.9515	.8140	.7112	.6269	.5563	.4956	.4424	.3949	.3522	.3133	35
36	1.6021	1.1381	.9462	.8101	.7066	.6228	.5522	.4917	.4385	.3912	.3488	.3102	36
37	1.5902	1.1284	.9418	.8062	.7035	.6193	.5485	.4880	.4349	.3875	.3451	.3071	37
38	1.5786	1.1191	.9379	.8023	.7005	.6168	.5466	.4872	.4341	.3868	.3448	.3065	38
39	1.5673	1.1101	.9345	.8004	.6990	.6155	.5456	.4863	.4333	.3860	.3441	.3059	39
40	1.5563	1.1015	.9315	.7985	.6975	.6143	.5445	.4853	.4324	.3853	.3434	.3053	40
41	1.5456	1.1000	.9295	.7966	.6956	.6131	.5445	.4853	.4316	.3853	.3434	.3053	41
42	1.5351	1.0992	.9284	.7954	.6945	.6118	.5435	.4844	.4308	.3846	.3428	.3048	42
43	1.5249	1.0985	.9279	.7947	.6939	.6110	.5424	.4835	.4301	.3839	.3421	.3042	43
44	1.5149	1.0977	.9275	.7941	.6935	.6101	.5414	.4826	.4294	.3832	.3415	.3038	44
45	1.5051	1.0972	.9271	.7937	.6931	.6094	.5403	.4817	.4287	.3826	.3409	.3032	45
46	1.4956	1.0968	.9268	.7933	.6928	.6091	.5403	.4817	.4287	.3826	.3409	.3032	46
47	1.4863	1.0965	.9266	.7930	.6926	.6089	.5403	.4817	.4287	.3826	.3409	.3032	47
48	1.4771	1.0962	.9264	.7928	.6924	.6088	.5403	.4817	.4287	.3826	.3409	.3032	48
49	1.4682	1.0960	.9262	.7926	.6923	.6087	.5403	.4817	.4287	.3826	.3409	.3032	49
50	1.4594	1.0958	.9261	.7925	.6922	.6087	.5403	.4817	.4287	.3826	.3409	.3032	50
51	1.4508	1.0957	.9260	.7924	.6921	.6086	.5403	.4817	.4287	.3826	.3409	.3032	51
52	1.4424	1.0956	.9259	.7923	.6921	.6086	.5403	.4817	.4287	.3826	.3409	.3032	52
53	1.4341	1.0955	.9258	.7922	.6920	.6086	.5403	.4817	.4287	.3826	.3409	.3032	53
54	1.4260	1.0954	.9257	.7921	.6920	.6086	.5403	.4817	.4287	.3826	.3409	.3032	54
55	1.4180	1.0953	.9256	.7920	.6920	.6086	.5403	.4817	.4287	.3826	.3409	.3032	55
56	1.4102	1.0952	.9255	.7919	.6919	.6086	.5403	.4817	.4287	.3826	.3409	.3032	56
57	1.4025	1.0951	.9254	.7918	.6919	.6086	.5403	.4817	.4287	.3826	.3409	.3032	57
58	1.3949	1.0950	.9253	.7917	.6918	.6086	.5403	.4817	.4287	.3826	.3409	.3032	58
59	1.3875	1.0949	.9252	.7916	.6918	.6086	.5403	.4817	.4287	.3826	.3409	.3032	59

LOGARITHMIC TABLE—(contd.)

65

Hours or Degrees.

Min.	12	13	14	15	16	17	18	19	20	21	22	23	Min.
0	.8010	.2663	.2341	.2041	.1761	.1498	.1249	.1015	.0792	.0580	.0378	.0185	0
1	.3004	.2657	.2336	.2036	.1756	.1493	.1245	.1011	.0788	.0576	.0375	.0182	1
2	.2998	.2652	.2330	.2032	.1752	.1489	.1241	.1007	.0785	.0573	.0371	.0179	2
3	.2992	.2646	.2325	.2027	.1747	.1485	.1237	.1003	.0781	.0570	.0368	.0175	3
4	.2986	.2640	.2320	.2022	.1743	.1481	.1233	.0999	.0778	.0566	.0363	.0172	4
5	.2980	.2635	.2315	.2017	.1738	.1476	.1229	.0996	.0774	.0563	.0361	.0169	5
6	.2974	.2629	.2310	.2012	.1734	.1472	.1225	.0992	.0770	.0559	.0358	.0166	6
7	.2968	.2624	.2305	.2008	.1729	.1468	.1221	.0988	.0766	.0556	.0355	.0163	7
8	.2962	.2618	.2300	.2003	.1725	.1464	.1217	.0984	.0763	.0552	.0352	.0160	8
9	.2956	.2613	.2295	.1998	.1720	.1459	.1213	.0980	.0759	.0549	.0348	.0157	9
10	.2950	.2607	.2289	.1993	.1716	.1455	.1209	.0977	.0756	.0546	.0345	.0154	10
11	.2944	.2602	.2284	.1988	.1711	.1451	.1205	.0973	.0752	.0542	.0342	.0150	11
12	.2938	.2596	.2279	.1984	.1707	.1447	.1201	.0969	.0749	.0539	.0339	.0147	12
13	.2933	.2591	.2274	.1979	.1702	.1443	.1197	.0965	.0745	.0535	.0335	.0144	13
14	.2927	.2585	.2269	.1974	.1698	.1438	.1193	.0962	.0741	.0532	.0332	.0141	14
15	.2921	.2580	.2264	.1969	.1694	.1434	.1190	.0958	.0738	.0529	.0329	.0138	15
16	.2915	.2574	.2259	.1965	.1689	.1430	.1186	.0954	.0734	.0525	.0326	.0135	16
17	.2909	.2569	.2253	.1960	.1685	.1426	.1182	.0950	.0731	.0522	.0322	.0132	17
18	.2903	.2564	.2249	.1955	.1680	.1422	.1178	.0947	.0727	.0518	.0319	.0129	18
19	.2897	.2558	.2244	.1950	.1676	.1417	.1174	.0943	.0724	.0515	.0316	.0125	19
20	.2891	.2553	.2239	.1946	.1671	.1413	.1170	.0939	.0720	.0512	.0313	.0122	20
21	.2885	.2547	.2234	.1941	.1667	.1409	.1166	.0935	.0716	.0508	.0309	.0119	21
22	.2880	.2542	.2229	.1936	.1662	.1405	.1162	.0932	.0713	.0505	.0306	.0116	22
23	.2874	.2536	.2223	.1932	.1658	.1401	.1158	.0928	.0709	.0501	.0303	.0113	23
24	.2868	.2531	.2218	.1927	.1654	.1397	.1154	.0924	.0706	.0498	.0300	.0110	24
25	.2862	.2526	.2213	.1922	.1649	.1392	.1150	.0920	.0702	.0495	.0296	.0107	25
26	.2856	.2520	.2208	.1917	.1645	.1388	.1146	.0917	.0699	.0491	.0293	.0104	26
27	.2850	.2515	.2203	.1913	.1640	.1384	.1142	.0913	.0695	.0488	.0290	.0101	27
28	.2845	.2509	.2198	.1908	.1636	.1380	.1138	.0909	.0692	.0484	.0287	.0098	28
29	.2839	.2504	.2193	.1903	.1632	.1376	.1134	.0906	.0688	.0481	.0284	.0095	29

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