ASTRONOMICAL EPHEMERIS

of

Geocentric Places of Planets

for

1946

With Tables of Houses for

MADRAS AND BOMBAY.

Indian Standard Time (Old Style) observed throughout.

Published by

Shree Jiwaji Observatory, Ujjain,

with the sanction of Education Department,

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PREFACE.

As a result of a number of suggestions made by the purchasers of our Ephemeris for 1945 the following changes have been made in this book:—

Additions.

1. Times when the moon forms principal aspects with other planets.
2. A permanent Nodal Ephemeris of Mercury and Mars useful for 100 years (1890 to 1990 A. D.).
3. A table of Mid-Heaven (*i. e.*, M. C.) corresponding to a given Sidereal Time.
4. Three more aspects which the planets form mutually are given —(*viz* ., ± = 144°; □=72°; ⊥=36°).

Alterations.

1. We have so far been giving the *Tithi* elapsed at noon; henceforth, the ending moments of *Tithis* will be given in I. S. T.
2. The latitude of Bombay being about 19°, we shall be giving times of Sunrise and Sunset for Lat. 19° instead of for 20° from this year.

I must record my grateful thanks to the authorities of the Education Department, Gwalior Government, for the facilities given in preparing this work. It is also a great pleasure to express my thanks to Mr. A. K. Shirke, Manager, A. D. Press, Lashkar, and his Staff for their courtesy and care shown during the printing of this work.

R. V. VAIDYA,
M. A., B. T.,
JYOTIRVIDYARATNA.
Superintendent,
Shree Jiwajee Observatory.

Ujjain, October 1945.

EXPLANATIONS.

I. The Nodal Ephemeris.

This Ephemeris gives the geocentric longitudes of the ascending nodes of Mars and Mercury for the year 1940. The "difference-column" gives the difference to be applied to the longitudes given in the 2nd column. It is to be applied positively for future years and negatively for previous years.

The following question will make the use clear.

Example.—Find the position of the Node of Mercury on 16th October 1935 at 12 o'clock noon G. M. T.

Subtracting 1935 from 1940, we get 5 years as the difference. The Ephemeris for 1935 will show that the Sun's longitude on this day was 22°≙11·5′. The longitude of ☿'s node (as given in the Nodal Ephemeris) corresponding to this longitude of the Sun is 11°≙29′; and the difference for 50 years is −7′. Hence, the difference for 5 years (to be applied negatively) is+·7′ the longitude of the Node of Mercury then comes to be 11°≙29·7′.

II. Sidereal Time.

To find the Sidereal Time at a place corresponding to a moment given in Standard Time (old style)—

Formula.—The Sid. Time=S±(I+I′+I″)±L, where

S=Sid. Time at Ujjain Mean Noon (as given in this Eph.).

I=Interval between the given moment and Ujjain Mean Noon (*i. e.*, 12h. 26m. 40s. I. S. T.). This is positive or negative according as the given moment is after or before noon.

I′=The motion of Sid. Time corresponding to the interval I.
I″=The motion of Sid. Time corresponding to the interval L.
L=The Longitude of the place when measured from Ujjain. This is positive or negative according as the place is to the East or West of Ujjain.

Note.—L is to be measured in *time* and the motion of the Sid. Time for I′ and I″ is 9·86 seconds per mean solar hour or ·16 sec. per minute.

Example.—Find the Sidereal Time at Bikaner, on August 20, 1946, *at* 10*h.* 26*m. A. M.* (*I. S. T.*).

The longitude of Bikaner is 2°-38′ west of Ujjain. This when converted into time becomes 10 min. 32 sec. and is negative.

S=9h. 52m. 4s. from the Ephemeris (See Page 16)

I=(12h. 26m. 40s.)−(10h. 26m.)=(2h. 0m. 40s.) and is negative, since the given moment is before noon.

I′=(9·86×2+·16×0+·16×$\frac{2}{3}$)=19·82 seconds and is negative.

I″=8·5×·16=1·4 seconds and is negative and L=10m. 36s. and is negative, since Bikaner lies to the west of Ujjain.

Hence, the required Sidereal Time

=(9h. 52m. 4s.)−(2h. 0m. 40s.+0h. 0m. 20s.+0h. 0m. 1s.+0h. 10m. 36s.).

=(9h. 52m. 4s.)−(2h. 10m. 37s.).

=(7h. 41m. 27s.) Answer.

III. The table of Ascendants and M. C.

This table gives the position of the Ascendant for each degree of latitude in India, corresponding to a given Sidereal time. The table for M. C. is applicable for every place and it gives the point of the zodiac transitting a place at a given sidereal time.

IV. The Sunrise and Sunset.

The moments are given in local time.

V.

A Note on Units of time.

1. There are 3 kinds of Periods in the planetary movement.

(*i*) *The Sidereal Period* of a planet (its true period of revolution round the Sun) is the time it takes to make a complete circuit round the star sphere, as seen from the Sun and not from the earth.

(*ii*) *The Anomalistic Period* is the interval between successive returns to the perihelion or aphelion.

(*iii*) *The Synodic Period* is the interval between successive conjunctions of the planet with the Sun.

A DAY.

2. The 'Day', reckoned with respect to anybody, is the interval between its successive returns to the meridian.

(*i*) *The Mean Solar Day* is the interval between the successive transits of the Mean Sun across a meridian. It is divided into mean 24 hours. Its variation from true Solar Day, *i. e.*, the interval between two successive transits of TRUE SUN is about 48 seconds.

(*ii*) *The Mean Sidereal Day* is the interval between successive transits of the Mean Equinox across the meridian. Its value is 23h. 56m. 4·0905s. mean Solar time.

(*iii*) *The True Sidereal Day* is the exact period of the Earth's axial rotation, as shown by successive transits of a star across the meridian.

Its value is 23h. 56m. 4·0996s.

(*iv*) The ordinary *Lunar Day* is the interval between successive transits of the Moon across the meridian. It varies from 24h. 38m. to 25h. 6m. and averages 24h. 51m.

A MONTH.

3. (*i*) *The Synodic Month* or Lunation (29·5306 days) is the period from New Moon to New Moon. New moons recur on the same day of the year every 19 years. This cycle is called the Metonic Cycle. The more accurate "Calippic Cycle" has 76 years or 940 Lunations.

(*ii*) *The Anomalistic Month* (27·5546 days) is the interval between successive positions of the Moon at its Perigee.

(*iii*) *The Nodical Month* (27·2122 days) is the interval between moon's position from one of its nodes to the same node again.

(*iv*) *The Sidereal Month* (27·3217 days) is the period in which the moon makes a complete circuit on the starry sphere.

THE YEAR.

4 (*i*) *The Solar, Equinoctial or Tropical Year* (365·2422 mean solar days or 366·2422 sidereal days) is the period between the successive returns of the Sun to the same equinox, or to the solstitial point, and is the period in which the seasons recur.

(*ii*) *The Sidereal Year* (365·2564 days) is the interval between successive conjunctions of the Earth with a star, as seen from the centre of the Sun.

(*iii*) *The Anomalistic Year* (365·2596 days) is the mean interval between the Earth's return to the Perihelion.

(*iv*) *The Julian Year* as used in our Calendar consists of exactly 365·25 days.

(*v*) *The Lunar Year* (354·3670 days) consists of 12 Lunations and is used in the Mohammedan Calendar.

(*vi*) *The Eclipse Year* (346·6200 days) is the interval between successive returns of the Sun to the same node. It is interesting to note that 19 such years contain 6585·78 days which are equivalent to the ancient "SAROS" cycle of 18 years and 11 days in which the same eclipses occur regularly for over a long priod.

(*vii*) *The Bessel's Fictitious Year* used in N. A. begins at the instant when the Sun's Longitude is exactly 280°.

Elements of the Planetary orbits for 12 O'clock noon (I. S. T.) on 1st January 1946.

Planet.	Mean Longitude.	Mean Daily Motion.	Sidereal Revolution.	Perihelion.	Ascending Node.	Eccentricity.	Mean Distance.
Sun ..	280° 19′ 2″	0° 59′ 8·19″	365·256 Days.	282° 0′ 44″	..	·01673181	1.0000001
Moon ..	257° 14′ 57″	13° 10′ 34·89″	27·322 ,,	..	..	·0549005	238860 miles.
Mercury ..	177° 21′ 36″	4° 5′ 32·42″	87·969 ,,	76° 36′ 38″	47° 41′ 27″	·20562362	0·3870984
Venus ..	262° 2′ 22″	1° 36′ 7·67″	224·701 ,,	130° 46′ 19″	76° 11′ 38″	·00679873	0·7233301
Mars ..	99° 3′ 47″	0° 31′ 26·52″	686·980 ,,	335° 3′ 54″	49° 8′ 29″	·09335525	1·5236781
Jupiter ..	194° 46′ 15″	0° 4′ 59·13″	4332·589 ,,	13° 27′ 10″	99° 54′ 10″	·04841027	5·202561
Saturn ..	109° 23′ 17″	0° 2′ 0·45″	10759·23 ,,	91° 59′ 24″	113° 11′ 7″	·05573338	9·554747
Uranus ..	81° 56′ 16″	0° 0′ 42·23″	30688·45 ,,	169° 47′ 3″	73° 42′ 12″	·0483322	19·21814
Neptune ..	185° 36′ 26″	0° 0′ 21·53″	60181·3 ,,	45° 48′ 35″	131° 11′ 4″	·00899995	30·10957
Pluto ..	159° 42′ 58″	0° 0′ 14·32″	90469·3 ,,	223° 27′ 58″	109° 33′ 9″	·24852	39·45743
Rahu ..	89° 27′ 49″	0° 3′ 10·7772″	6793·458 ,,	..	..	..	..
☽'s Perigee	46° 6′ 47″	0° 6′ 40·92″	3232·591 ,,	..	..	..	..

Mean Places of Principal Stars on 1st January 1946.

Names.	Stars.	Mag	R. A.		Decl.		Long.		Lat.	
			H.	M.	°	′	°	′	°	′
α Andromeda	U. Bhadra	2·1	0	6	+ 28	47	13	31	+ 25	41
γ Pegasi ..	U Bhadra	2·8	0	10	+ 14	53	8	24	+ 12	36
ξ Piscium ..	Revati.	5·6	1	11	+ 7	17	19	7	— 0	13
α Eridain ..	Achernar.	0·6	1	36	— 57	31	344	33	— 59	23
Polaris ..	Dhruva.	2·1	1	45	+ 89	0	87	49	+ 66	6
β Arietes ..	Ashvini.	2·7	1	52	+ 20	32	33	13	+ 8	29
α Arietes ..	Ashvini.	2·2	2	4	+ 23	12	36	55	+ 9	58
41 Arietes ..	Bharani.	3·7	2	47	+ 27	2	47	27	+ 10	27
β Persei ..	Algol'	Var	3	5	+ 40	45	45	25	+ 22	25
η Tauri ..	Krittika.	3·0	3	44	+ 23	56	59	14	+ 4	3
α Tauri ..	Rohini.	1·1	4	33	+ 16	24	69	2	— 5	28
β Orionis ..	Rigel'	0·3	5	12	— 8	16	76	5	— 31	8
α Aurigae ..	Capella.	0·2	5	13	+ 45	57	81	6	+ 22	52
γ Orionis ..	Bellatrix.	1·7	5	22	+ 6	18	80	12	— 16	49
λ Orionis ..	Mriga hirsh	4·5	5	32	+ 9	27	82	51	— 13	50
ε Orionis ..	Mrig Bana	1·7	5	33	— 1	14	82	43	— 24	31
α Orionis ..	Ardra.	0·9	5	52	+ 7	24	88	0	— 16	2
α Carinae ..	Agastya.	0·9	6	23	— 52	40	104	13	— 75	50
α Canis Majori	Vyadha	1·6	6	43	— 16	38	103	20	— 39	36
α Geminorum	Castor'	2·0	7	31	+ 32	1	109	29	+ 10	5
α Canis Minor	Prashva.	0·5	7	36	+ 5	22	115	3	— 16	0
β Geminorum	Punarvasu	1·2	7	42	+ 28	10	112	29	+ 6	41
δ Cancri ..	Pushya	4·1	8	42	+ 18	21	127	58	+ 0	4
α Cancri ..	Ashlesha.	4·3	8	55	+ 12	4	132	53	— 5	5
α Leonis ..	Magha.	1·3	10	5	+ 12	4	149	5	+ 0	27
δ Leonis ..	Purva.	2·6	11	11	+ 20	49	160	34	+ 14	20
β Leonis ..	Uttara.	2·2	11	46	+ 14	53	170	52	+ 12	16
δ Corvi ..	Hasta.	3·1	12	27	— 16	12	192	42	— 12	11
α Virginis ..	Chitra	1·2	13	22	— 10	52	203	5	— 2	3
α Bootes ..	Swati.	0·2	14	13	+ 19	28	203	29	+ 30	46
α Libra ..	Vishakaha	2·9	14	48	— 15	49	224	20	+ 0	20
δ Scorpii ..	Anuradha.	2·5	15	57	— 22	28	241	49	— 1	59
α Scorpii ..	Jyeshtha.	1·2	16	26	— 26	19	249	1	— 4	34
λ Scorpii ..	Moola.	1·7	17	30	— 37	4	263	50	— 13	47
δ Sagittarus..	P. Shadha.	2·8	18	17	— 29	51	273	50	— 6	28
ε Sagittarus	P. Shadha.	1·9	18	21	— 34	25	274	20	— 11	2
σ Sagittarus..	U. Shadha	2·1	18	52	— 26	22	281	38	— 3	26
α Lyrae ..	Abhijit	0·1	18	35	+ 38	44	284	34	+ 61	44
α Aquillae ..	Shravana	0·9	19	48	+ 8	43	301	1	+ 29	18
β Delphini ..	Dhanistha	3·7	20	35	+ 14	24	315	35	+ 31	55
α Delphini ..	Dhanistha	3·8	20	37	+ 15	43	316	38	+ 33	2
α Cygni ..	Deneb.	1·3	20	40	+ 45	5	334	35	+ 59	55
α Aquarii ..	Shatabhij.	3·8	22	50	— 7	52	340	49	— 0	23
α Piscis Astr.	Fomalhaut	1·3	22	55	— 29	55	333	6	— 21	8
β Pegasi ..	P. Bhadra	2·6	23	1	+ 27	47	358	37	+ 31	8
α Pegasi ..	P. Bhadra	2·6	23	2	+ 14	55	352	44	+ 19	24

EPHEMERIS

OF

Planets' Places for 1946.

INTRODUCTION.

THE places of the Sun, Moon and the Planets given in the following pages are *Sayan* and are true for the mean equinox of 1946. They are given for 12 o'clock noon Indian Standard Time (I.S.T.) which is 5½ hours in advance of Greenwich Mean Time. For war purposes this time is further advanced by one hour but we have throughout made our calculations according to the *old style*. The *Tithis* are likewise given for the noon (I.S.T.) but, for convenience, the *Sidereal Time* is given for the *Mean Noon, Ujjain Local Time.*

Nirayana places are obtained by subtracting the *Ayanamshas* from the *Sayan* places. These *Ayanamshas*, according to different systems prevalent in India, are as follows :—

Grahalaghav	23° 43′ 35″	*Chitra*	23° 5′ 7″
Raivat (Zeta Pisc.)	19° 7′ 5″	*Madras*	21° 39′

It should be noted that the *Tithis* 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
Pl 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-quadrate	= 135°
☿ Mercury.	♑ Capricornus.	⚻ Bi-quintile	= 144°
⊗ Earth.	♒ Aquarius.	⚻ Quincunx	= 150°
☊ Rahu.	♓ Pisces.	☍ Opposition	= 180°

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′ ″	° ′	° ′	° ′	° ′	° ′	° ′
1	Tu.	18 41 20	10♑15 0	23 S 3	14♐58	1 N22	21 S 14	21♐ 0	8♎36
2	W.	44 16	11 16 11	22 58	27 6	0 16	23 9	3♑15	36
3	Th.	48 12	12 17 22	53	9♑26	0 S 52	23 59	15 41	36
4	F.	52 8	13 18 32	47	21 59	2 1	23 38	28 21	36
5	S.	56 4	14 19 42	41	4♒46	3 5	22 0	11♒14	37
6	Su.	19 0 0	15 20 51	34	17 45	4 0	19 14	24 20	37
7	M.	4 56	16 22 0	26	0♓58	4 44	15 27	7♓39	37
8	Tu.	8 52	17 23 8	18	14 23	5 11	10 50	21 11	37
9	W.	12 48	18 24 16	10	28 2	5 23	5 36	4♈56	37
10	Th.	16 44	19 25 24	2	11♈53	5 16	0 2	18 53	37
11	F.	20 41	20 26 82	21 53	25 56	4 50	5N 37	3♉ 1	R 37
12	S.	24 38	21 27 40	44	10♉ 8	4 11	11 3	17 17	37
13	Su.	28 35	22 28 46	34	24 28	3 1	15 56	1♊41	37
14	M.	32 32	23 29 52	24	8♊54	1 52	19 56	16 8	37
15	Tu.	36 29	24 30 58	13	23 22	0 36	22 41	0♋35	37
16	W.	40 26	25 32 4	2	7♋46	0N 43	23 56	14 55	36
17	Th.	44 23	26 38 10	20 51	22 1	1 59	23 36	29 5	36
18	F.	48 20	27 34 16	39	6♌ 3	3 5	21 45	12♌59	36
19	S.	52 17	28 35 21	27	19 49	4 0	18 40	26 33	35
20	Su.	56 14	29 36 '25	14	3♍13	4 39	14 41	9♍47	35
21	M.	20 0 11	0♒37	28 1	16 15	5 3	10 6	22 38	35
22	Tu.	4 8	1 38	30 19	47 28 56	5 12	5 11	5♎10	35
23	W.	8 5	2 39	31 34	11♎19	5 5	0 13	17 24	34
24	Th.	12 2	3 40	3 21	23 26	4 45	4 S 40	29 25	34
25	F.	16 59	4 41	30 7	5♏22	4 13	9 20	11♏18	33
26	S.	20 56	5 42	29 18	52 17 13	3 30	13 37	23 8	33
27	Su.	24 52	6 43	28 37	29 3	2 38	17 23	4♐59	32
28	M.	28 48	7 44	27 21	10♐57	1 39	20 27	16 57	32
29	Tu.	32 44	8 45	26 5	23 0	0 35	22 40	29 6	31
30	W.	36 40	9 46	24 17	48 5♑16	0 S 31	23 52	11♑29	31
31	Th.	20 39 37	10 47	21	31 17 47	1 38	23 52	24 10	30

Date	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1N 28	2S 4	0 N 2	22 N34	0 S 6	21 N29	1 N16	8 S 29	3N 55	24 N 22
3	,,	,,	,,	33	6	30	16	34	59	34
5	,,	,,	,,	33	6	32	17	37	4 2	46
7	,,	,,	,,	32	6	34	17	41	5	59
9	,,	,,	,,	32	6	36	18	44	9	25 11
11	,,	,,	,,	32	5	38	18	48	11	22
13	1 29	2 3	,,	31	5	40	18	52	12	32
15	,,	,,	,,	31	5	41	19	55	15	43
17	,,	,,	,,	31	5	43	19	58	16	52
19	,,	2 2	,,	30	4	45	20	9 1	16	59
21	,,	,,	,,	30	4	47	20	4	16	26 6
23	,,	,,	,,	30	4	49	21	6	16	13
25	,,	2 1	,,	29	4	50	21	8	16	19
27	1 30	,,	,,	29	3	52	21	10	14	24
29	,,	2 0	,,	29	3	54	22	11	14	28
31	,,	,,	,,	28	3	55	23	12	12	26 30

Date	♅	♄	♃	♂	♀	☿	Lunar Aspects: ☉	☽	♅	♄	♃	♂	♀	☿	Pl
	° ′	° ′	° ′	° ′	° ′	° ′									
1	14♊26	22♋20	24♎51	28♋10	2♑46	18♐49	☌		☍		△		☍		△
2	R 24	R 15	58	27 R 50	4 1	20 6				△		☌			
3	22	10	25 5	29	5 17	21 23	☍	□	△		☍		☍		△
4	20	5	12	7	6 33	22 42				☍	□	☍		☌	
5	18	1	18	26 44	7 48	24 2	☌	△					☌		
6	16	21 56	24	21	9 4	25 23			△	☍					☍
7	14	51	30	25 58	10 19	26 45					△	☍		✶	
8	12	46	36	35	11 34	28 9	✶	☍	□				✶		☍
9	10	41	41	12	12 49	29 33			△	☍	△		□		
10	8	36	47	24 48	14 5	0♑58		☍	✶			□			△
11	6	31	53	24	15 21	2 24	□		□	☍	□	△			
12	4	26	59	0	16 36	3 51		☍	☌				△		□
13	2	21 26	4 23	36	17 52	5 19	△			✶	☍	✶			
14	0	16	9	10	19 7	6 47		△	☍				☍	✶	
15	13 58	11	15 22	46	20 23	8 16	☍			☌	△	☌	☍		
16	56	6	20	22	21 28	9 54		□	☌						
17	55	1	24 21	59	22 53	11 30	☍			☍	□	☍	☍	☍	☌
18	53	20 57	29	36	24 9	12 53		✶						☍	☍
19	52	52	33	13	25 24	14 14			✶	☌		☌	☍		
20	50	47	37	20 51	26 40	15 45	☍	☌			✶				
21	49	42	41	29	27 55	17 16			□	✶		✶		△	☌
22	47	38	45	7	29 11	18 39	△				☌		△		
23	46	33	48	19 45	0♒26	20 5		☍	△						✶
24	45	28	52	24	1 41	21 47				□	☍	□		□	
25	43	23	55	3	2 55	23 28	□	☌					□		□
26	41	19	58	18 43	4 11	25 5			☍	△		△			
27	40	14 27	1	24	5 28	26 42					☌			✶	
28	39	9	4	5	6 43	28 19	✶	✶	☍				✶		△
29	38	4	6	17 46	7 58	29 57				☍	✶	☍			
30	37	0	8	28	9 14	1♒35	☌	□					☌	☌	☍
31	13 36	19 55	10	10	10 29	3 13			☍	☍		☍			

Date	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
1	0 S 10	23S 36	1 N18	21 S 41	0♋ 6	3	5 16	⊗ at Perihelion.
3	15	39	0 57	22 12	7	3	17 56	New Moon.
5	20	33	41	38	8	10	12 8	☽ on Equator.
7	25	26	24	23 1	8	10	13 0	☿ at ♉
9	29	19	9	18	8	10	13 24	♀ on Equator.
11	33	7	0 S 8	23 26	7	11	1 52	☽ at First Quarter.
13	37	22 52	0 S 22	43	6	14	20 0	☽ at Apogee.
15	41	36	36	23 51	5	17	20 17	Full Moon.
17	45	16	49	49	4	19	21 27	☉ enters ♒
19	49	21 53	1 1	42	2	20	20 42	☿ at Aphelion.
21	53	28	18	37	0	23	13 4	☽ on Equator.
23	57	0	24	20 29♊	57	25	10 29	☽ at Last Quartor.
25	1 1	20 30	33	22 56	53	26	18 0	☽ at Perigee.
27	4	19 57	42	30	48	31	22 0	♀ at Perihelion.
29	7	22	49	21 57	43			
31	10	18 44	55	19	38			

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	F.	20 43 34	11 ♒ 48	16 17 S 15	0 ♒ 37	2 S 40	22 S 38	7 ♒ 8	8 ♎ 30
2	S.	47 30	12 49	9 16 59	13 44	3 36	20 9	20 25	R 29
3	Su.	51 26	13 50	0 42	27 9	4 21	16 33	3 ♓ 57	28
4	M.	55 22	14 50	50 24	10 ♓ 49	4 52	12 1	17 44	27
5	Tu.	59 18	15 51	39 6	24 42	5 6	6 48	1 ♈ 41	26
6	W.	21 3 15	16 52	27 15 48	8 42	5 2	1 11	15 43	25
7	Th.	7 12	17 53	14 29	22 46	4 40	4 N30	29 50	24
8	F.	11 9	18 54	1 10	6 ♉ 54	4 1	10 1	13 ♉ 58	22
9	S.	15 6	19 54	47 14 51	21 2	3 8	15 0	28 5	21
10	Su.	19 2	20 55	32 32	5 ♊ 8	2 3	19 8	12 ♊ 11	20
11	M.	23 59	21 56	14 12	19 12	0 51	22 10	26 13	19
12	Tu.	27 56	22 56	54 13 52	3 ♋ 13	0N 24	23 49	10 ♋ 12	18
13	W.	30 53	23 57	32 32	17 8	1 37	23 57	24 4	17
14	Th.	34 50	24 58	9 12	0 ♌ 57	2 44	22 37	7 ♌ 47	16
15	F.	38 47	25 58	44 12 52	14 35	3 39	19 58	21 20	15
16	S.	42 43	26 59	18 31	28 2	4 22	16 15	4 ♍ 39	14
17	Su.	46 39	27 59	50 10	11 ♍ 13	4 50	11 51	17 42	13
18	M.	50 35	29 0	21 11 49	24 7	5 2	6 58	0 ♎ 28	12
19	Tu.	54 31	0 ♓ 0	51 28	6 ♎ 44	4 59	1 55	12 57	11
20	W.	58 28	1 1	21 6	19 6	4 43	3 S 7	25 10	10
21	Th.	22 2 25	2 1	49 10 44	1 ♏ 13	4 13	7 57	7 ♏ 12	9
22	F.	6 22	3 2	15 23	13 9	3 33	12 24	19 4	8
23	S.	10 19	4 2	39 2	24 59	2 43	16 22	0 ♐ 55	7
24	Su.	14 16	5 3	0 9 40	6 ♐ 49	1 47	19 42	12 45	5
25	M.	18 13	6 3	19 18	18 43	0 46	22 13	24 43	4
26	Tu.	22 9	7 3	37 8 56	0 ♑ 46	0 S 18	23 45	6 ♑ 53	2
27	W.	26 5	8 3	54 33	13 4	1 22	24 10	19 20	1
28	Th.	22 30 1	9 4	10 8 10	25 41	2 24	23 22	2 ♒ 8	0

Date.	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
2	1N 30	2S 0	0N 2	22 N28	0 S 3	21 56	1 N23	9 S 13	4N10	26N32
4	,,	1 59	,,	,,	3	58	24	14	8	34
6	,,	58	,,	,,	2	59	24	14	5	35
8	,,	57	,,	27	2	22 0	25	14	3	35
10	,,	56	,,	,,	2	2	25	14	4 0	35
12	,,	55	,,	,,	2	4	25	14	3 57	34
14	,,	54	,,	,,	1	5	26	13	53	32
16	,,	53	,,	,,	1	6	26	12	50	30
18	,,	52	,,	,,	1	7	27	10	47	27
20	1 31	51	,,	,,	1	8	27	8	45	25
22	,,	50	,,	,,	1	9	28	7	41	22
24	,,	49	,,	,,	0	9	28	5	38	19
26	,,	48	,,	,,	0	10	29	2	33	14
28	,,	47	,,	,,	0 0	22 11	29	0	30	9

Date	Longitudes. ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	Ψ	♅	♄	♃	♂	♀	☿	P
	° ′	° ′	° ′	° ′	° ′	° ′									
1	13 ♊ 35	19 ♋ 51	27 ♎ 12	16 ♋ 54	11 ♒ 44	4 ♒ 53									
2	R 34	R 46	14	R 39	12 59	6 32	☌	△	△	☍		☍	☌	☌	☌
3	33	42	16	24	14 15	8 11					△				☌
4	32	38	18	10	15 30	9 50	☍	☍	□		△	☍	☍	☍	✶
5	31	34	19	15 56	16 45	11 32				△	☍				
6	30	30	20	43	18 1	13 18		☌	✶					✶	△
7	29	26	21	31	19 16	15 7	✶			□	☌	□	✶		
8	28	22	22	20	20 31	16 55		☍	☍						□
9	27	18	23	10	21 47	18 36	□			✶	☍	✶	□	□	
10	27	14	23	0	23 2	20 18		△							✶
11	26	10	R 23	14 50	24 17	22 5	△		□	☌		☌	△	△	
12	26	6	23	42	25 32	23 53		□			△				☍
13	26	2	23	36	26 47	25 40	☍		☍	□		□			
14	25	18 59	22	30	28 3	27 28					□		☍	☍	
15	25	55	21	25	29 18	29 18		✶	✶	☍		☍			□
16	25	52	20	21	0 ♓ 33	1 ♓ 9	□				✶		□	□	
17	25	49	19	17	1 48	2 59		☍	□			✶			☍
18	25	46	18	13	3 3	4 51	☍			✶	☍				
19	25	43	17	11	4 18	6 43		□		□			☍	☍	✶
20	25	40	15	9	5 33	8 35			△			□			
21	D 25	37	13	7	6 48	10 26	△				□				
22	25	34	11	6	8 3	12 19		☌	☍	△		△	△	△	□
23	25	31	8	D 6	9 19	14 10					☍				
24	25	28	5	7	10 34	16 1	□	✶				□			△
25	25	26	3	9	11 49	17 52			☌	☍	✶	☍		□	
26	25	24	0	13	13 3	19 40									
27	26	22 26	57	17	14 18	21 28	✶	□	☍	☌		☌	✶		☍
28	26	21	55	14 22	15 33	23 15					□			✶	

Date.	☿ Lat.	☿ Decl.	☽ Lat.	☽ Decl.	Moon's ☊	Date.	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
2	1 S 13	18 S 5	2 S 0	20 S 35	29 ♊ 32	1	12 52	☿ in Sup. ☌ ☉
4	15	17 24	3	19 46	26	2	10 12	New Moon.
6	17	16 40	5	18 50	19	6	16 18	☽ on Equator.
8	19	15 55	5	17 47	12	8	15 55	☽ at Apogee.
10	21	7	3	16 40	4	9	9 58	☽ at First Quarter.
12	23	14 19	0	15 24	23 56	11	7 24	☿ Sup. ☌ ☉
14	24	13 28	1 53	14 7	47	16	9 58	Full Moon.
16	25	12 36	46	12 43	37	19	11 37	☉ enters ♓
18	26	11 43	36	11 14	26	19	21 8	☽ on Equator.
20	26	10 49	24	9 40	16	22	16 24	☽ at Perigee.
22	27	9 54	9	8 0	6	24	8 5	☽ at Last Quarter.
24	27	8 57	0 51	6 18	27 56			
26	26	7 59	31	4 40	45			
28	26	1	9	2 49	31			

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′ ♓	° ′	° ′ ♓	° ′	° ′	° ′ ♓	° ′ ♓
1	F.	22 34 57	10 ♓ 4 25	7 S 48	8 ♒ 41	3 S20	21 S19	15 ♒ 19	7 ♎ 59
2	S.	37 53	11 4 39	25	22 4	4 7	18 3	28 55	R57
3	**Su.**	41 49	12 4 50	2	5 ♓ 51	4 40	13 44	12 ♓ 51	56
4	M.	45 45	13 4 59	6 39	19 56	4 58	8 34	27 5	54
5	Tu.	49 42	14 5 6	16	4 ♈ 17	5 3	2 52	11 ♈ 30	53
6	W.	53 39	15 5 11	5 53	18 45	4 38	3N 3	26 0	51
7	Th.	57 36	16 5 15	30	3 ♉ 14	4 0	8 49	10 ♉ 28	50
8	F.	23 1 33	17 5 17	7	17 39	3 8	14 6	24 47	48
9	S.	5 30	18 5 17	4 44	1 ♊ 57	2 3	18 32	9 ♊ 2	47
10	**Su.**	9 27	19 5 15	20	16 4	0 52	21 51	23 3	45
11	M.	13 23	20 5 11	3 56	0 ♋ 0	0 N21	23 48	6 ♋ 54	44
12	Tu.	17 19	21 5 4	32	13 45	1 32	24 15	20 33	42
13	W.	21 15	22 4 55	9	27 19	2 37	23 15	4 ♌ 2	41
14	Th.	25 11	23 4 44	2 45	10 ♌ 42	3 32	20 57	17 19	39
15	F.	29 7	24 4 31	21	23 54	4 15	17 33	0 ♍ 26	38
16	S.	33 3	25 4 16	1 57	6 ♍ 55	4 43	13 20	13 21	36
17	**Su.**	37 59	26 3 58	33	19 45	4 14	8 34	26 6	34
18	M.	40 56	27 3 38	9	2 ♎ 24	4 57	4 32	8 ♎ 39	33
19	Tu.	44 53	28 3 17	0 45	14 52	4 42	1S 34	21 1	31
20	W.	48 50	29 2 33	22	27 8	4 13	6 31	3 ♏ 11	29
21	Th.	52 47	0 ♈ 2 28	0 N 1	9 ♏ 19	3 34	11 11	15 11	27
22	F.	56 44	1 2 1	24	21 9	2 46	15 23	27 3	26
23	S.	0 0 41	2 1 31	48	2 ♐ 57	1 51	18 56	8 ♐ 51	24
24	**Su.**	4 38	3 0 50	1 11	14 43	0 50	21 44	20 40	23
25	M.	8 34	4 0 8	34	26 37	0 S12	23 36	2 ♑ 37	21
26	Tu.	12 30	4 59 49	58	8 ♑ 40	1 15	24 25	14 46	20
27	W.	16 26	5 59 11	2 21	20 57	2 16	24 4	27 12	18
28	Th.	20 22	6 58 31	45	3 ♒ 34	3 12	22 29	10 ♒ 1	16
29	F.	24 18	7 57 49	3 8	16 35	4 0	19 41	23 15	4 15
30	S.	28 14	8 57 6	32	0 ♓ 3	4 36	15 46	6 ♓ 58	13
31	Su.	0 32 10	9 56 22	3 56	13 59	4 56	10 52	21 7	11

Date.	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
2	1 N31	1 S46	0 N 2	22 N27	0N 0	22 N12	1 N30	8S 58	3N26	26 N 4
4	,,	45	,,	27	0	13	30	54	23	25 59
6	,,	44	,,	27	0	13	30	51	19	54
8	,,	42	,,	28	1	14	31	47	16	49
10	,,	41	,,	28	1	14	31	44	13	43
12	,,	40	,,	28	1	15	31	40	10	37
14	,,	38	,,	29	1	15	32	36	6	30
16	,,	37	,,	29	1	16	32	32	2	24
18	,,	36	,,	29	2	16	32	27	2 S9	17
20	,,	34	,,	30	2	16	33	23	56	9
22	,,	33	,,	30	2	17	33	18	53	2
24	,,	32	,,	30	2	17	33	13	50	24 54
26	,,	30	,,	31	3	17	34	8	47	46
28	,,	29	,,	31	3	17	34	2	43	37
30	,,	28	,,	31	3	17	34	7 57	41	28

Date	Longitudes ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	☽	♅	♄	♃	♂	♀	☿	P
	° ′	° ′	° ′	° ′	° ′	° ′									
1	13 ♊ 26	18 ♍ 18	26 ♎ 53	14 ♍ 28	16 ♓ 48	24 ♓ 59	♃	△	△			π			♂
2	27	R 16	R 50	34	18 4	26 39				♃	△		♃	♃	
3	27	14	46	40	19 18	28 13	♂	π							π
4	28	12	42	47	20 33	29 43			□	△	π	△	♂		
5	29	10	38	55	21 48	1 ♈ 12		♂						♂	△
6	29	8	34	15 3	23 3	2 33	♃		□		□	♃			
7	30	7	30	12	24 18	3 57		π		♂				♃	□
8	31	5	26	21	25 33	5 11	✶		♃	✶		✶			
9	32	4	21	31	26 48	6 16		△		π			✶	✶	
10	33	3	16	41	28 3	7 14	□		♂	♃		♃			✶
11	34	2	11	52	29 17	8 3					△		□		
12	35	1	6	16 3	0 ♈ 32	8 47		□	♃	♂		♂		□	♃
13	36	0	1	15	1 46	9 20	△				□		△		
14	37	17 59	25 56	28	3 1	9 46		✶	✶			♃		△	♂
15	38	59	50	41	4 16	10 3	π			♃	✶				
16	39	58	44	55	5 30	10 12			♃				π	π	♃
17	40	58	39	17 9	6 45	10 R 13			□	✶	♃	✶			
18	42	57	33	24	7 59	10 5	♂	♂					♂		
19	43	57	27	39	9 14	9 48			△	□		□		♂	✶
20	45	57	21	55	10 28	9 26	π				♂				
21	46	D 57	14	18 11	11 43	8 54			♃	π			△	π	π
22	48	57	8	27	12 57	8 18					△	♃			
23	49	57	2	44	14 12	7 37	△	✶						△	
24	51	58	24 56	19 1	15 26	6 52			♂	π		π	△		△
25	53	58	50	19	16 41	6 3					✶				
26	54	59	43	37	17 55	5 11	□	□	π					□	π
27	56	59	36	55	19 9	4 19				♂	□	♂	□		
28	58	18 0	28	20 14	20 24	3 27	✶	△						✶	♂
29	59	1	20	33	21 38	2 36			△	π		π	✶		
30	14 1	2	13	52	22 52	1 47					△			♃	
31	3	3	6	21 12	24 6	1 1	♃	π	□	△					π

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date	Time. H. M.	Phenomena.
	° ′	° ′	° ′	° ′	° ′ ♊			
2	1S 25	6 S 2	0 N15	1 S 14	27 ♊ 17	1	6 0	☿ at ☊
4	24	5 2	42	0 N45	5	2	6 0	♄ at ☊
6	23	4 2	1 10	2 7	26 53	3	17 50	☿ on Equator.
8	21	3 1	36	3 32	40	3	23 29	New Moon.
10	20	2 0	2 4	4 46	26	5	20 23	☿ at Perihelion.
12	18	0 59	29	5 46	13	5	23 38	☽ on Equator.
14	16	0 N 3	52	6 30	25 59	6	17 44	☽ at Apogee.
16	13	1 4	3 10	6 57	45	9	5 0	☿ at Gt. Elong. 18°E9′.
18	10	2 6	24	7 7	32	10	17 36	☽ at First Quarter.
20	6	3 8	31	6 58	18	13	17 36	Hel. Rise of ♀ in the E ɛt
22	4	4 8	35	6 35	5	14	9 40	♀ on Equator.
24	1 1	5 9	23	5 46	24 52	18	0 56	Full Moon.
26	0 57	6 9	7	4 55	40	19	5 50	☽ on Equator
28	54	7 9	2 47	3 56	27	21	11 12	☉ enters ♈
30	50	8 8	22	2 18	13	23	22 51	☽ at Perigee.
						26	4 2	☽ at Last Quarter.
						26	14 33	☿ at Inf. ☌ ☉

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	♆
		H. M. S.	° ′ ″	° ′	° ′	° ′	° ′	° ′	° ′
1	M.	0 36 6	10 ♈ 55 37	4N 19	28 ♓ 20	5 S 0	5 S15	5 ♈ 38	7 ♎ 10
2	Tu.	39 3	11 54 50	42	13 ♈ 0	4 44	0 N45	20 25	R 8
3	W.	43 0	12 54 0	5 5	27 51	4 9	6 50	5 ♉ 19	7
4	Th.	47 57	13 53 9	28	12 ♉ 40	3 16	12 33	20 12	5
5	F.	51 54	14 52 16	51	27 35	2 11	17 30	4 ♊ 56	3
6	S.	55 51	15 51 20	6 14	12 ♊ 12	0 57	21 19	19 25	1
7	Su.	59 48	16 50 22	37	26 32	0 N34	23 43	3 ♋ 36	0
8	M.	1 3 45	17 49 23	7 0	10 ♋ 34	1 32	24 33	17 28	6 58
9	Tu.	7 42	18 48 20	22	24 17	2 38	23 51	1 ♌ 2	57
10	W.	11 39	19 47 15	44	7 ♌ 43	3 34	21 47	14 20	55
11	Th.	15 35	20 46 8	8 6	20 53	4 18	18 36	27 23	54
12	F.	19 32	21 44 58	28	3 ♍ 50	4 47	14 34	10 ♍ 13	52
13	S.	23 29	22 43 37	50	16 33	5 2	9 56	22 51	51
14	Su.	27 25	23 42 23	9 12	29 6	5 2	4 59	5 ♎ 19	49
15	M.	31 22	24 41 7	34	11 ♎ 28	4 47	0 S 7	17 35	48
16	Tu.	35 19	25 40 49	55	23 40	4 20	5 10	29 43	46
17	W.	39 15	26 39 29	10 16	5 ♏ 50	3 41	9 57	11 ♏ 43	44
18	Th.	43 12	27 38 7	37	17 40	2 53	14 20	23 36	42
19	F.	47 9	28 36 43	58	29 31	1 57	18 9	5 ♐ 25	41
20	S.	51 5	29 34 17	11 19	19 ♐ 19	0 55	21 13	17 12	39
21	Su.	55 1	0 ♉ 32 50	40	23 6	0 S 6	23 23	29 2	38
22	M.	58 58	1 31 21	12 1	4 ♑ 59	1 10	24 31	10 ♑ 58	37
23	Tu.	2 2 55	2 29 50	21	17 1	2 12	24 33	23 6	35
24	W.	6 51	3 28 18	41	29 16	3 8	23 23	5 ♒ 31	34
25	Th.	10 48	4 26 44	13 1	12 ♒ 1	3 57	21 2	18 17	33
26	F.	14 45	5 25 8	21	24 50	4 35	17 35	1 ♓ 28	32
27	S.	18 41	6 23 31	40	8 ♓ 14	5 0	13 8	15 7	30
28	Su.	22 38	7 21 53	59	22 8	5 9	7 51	29 16	29
29	M.	26 35	8 20 12	14 18	6 ♈ 30	4 58	2 0	13 ♈ 50	27
30	Tu.	2 30 31	9 18 31	14 36	21 15	4 28	4 N 9	28 45	26

Date.	♆ Lat.	♆ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1N 31	1S 27	0 N 2	22 N32	0 N 3	22N 17	1N 34	7 S 51	2 N38	24 N 19
3	,,	26	,,	32	3	17	34	46	35	10
5	,,	24	,,	33	3	16	34	41	32	23 59
7	,,	23	,,	33	4	16	34	35	29	47
9	,,	22	,,	34	4	15	34	29	26	37
11	,,	20	,,	34	4	15	34	24	24	26
13	,,	19	,,	35	4	14	34	18	21	16
15	,,	18	,,	35	4	14	34	12	18	4
17	,,	17	,,	36	4	13	34	7	16	22 52
19	,,	16	,,	37	5	13	33	0	14	39
21	,,	14	,,	37	5	12	33	6 55	11	26
23	,,	13	3	38	5	11	33	50	8	22 12
25	,,	12	,,	39	5	10	33	45	6	21 58
27	,,	11	,,	39	5	10	33	40	4	45
29	,,	10	,,	40	5	9	33	34	2 1	28

Date	♅ Longitudes.	♄	♃	♂	♀	♆	Lunar Aspects. ☉	☿	♅	♄	♃	♂	♀	♆	Pl
	° ′	° ′	° ′	° ′	° ′	° ′									
1	14 ♊ 5	18 ♋ 4	23 ♎ 58	21 ♋ 32	25 ♈ 21	0 ♈ 19		☌					☌		
2	7	5	R51	52	26 35	29 R41	☌	☌	⚹	□					△
3	9	7	44	22 12	27 49	29 7					☍	□	☌	☊	
4	11	8	36	34	29 3	28 38	☊	☿	☊	⚹					□
5	13	10	29	56	0 ♉ 18	28 15					☿	⚹	☊	⚹	
6	15	12	21	23 18	1 32	27 57	⚹	△	☌	☊					⚹
7	17	14	14	40	2 46	27 45					△	☊	⚹	□	
8	20	16	6	24 3	4 0	27 38		□	☊						☊
9	22	18	22 58	26	5 14	27 36	□			☌	□	☌		△	
10	24	20	57	49	6 28	27 ☽41		⚹					□		☌
11	27	22	43	25 12	7 41	27 50	△		⚹	☊	⚹	☊			
12	29	25	35	36	8 35	28 4		☊					△	π	☊
13	32	28	28	26 0	10 9	28 23			□	⚹					
14	34	31	20	24	11 23	28 47	π				☊	⚹		☍	
15	37	33	12	48	12 37	29 15		☌	△				π		⚹
16	39	36	4	27 13	13 51	29 47	☍			□	☌	□			
17	42	39	21 57	38	15 5	0 ♈ 24		☊					π	□	
18	45	42	49	28 3	16 19	1 4			π	△	☊		☍		
19	47	45	41	29	17 32	1 48	π					△		△	
20	50	48	33	55	18 46	2 36		⚹	☍						△
21	53	57	26	29 21	19 59	3 27				π	⚹		π		
22	56	55	18	47	21 12	4 21	△	□				π		□	π
23	58	58	10	0 ♌ 13	22 26	5 18			π	☍	□		△		
24	15 1	19 2	3	39	23 40	6 18	□					☍			
25	4	6	29 56	1 6	24 53	7 21		△	△					⚹	☍
26	7	10	49	33	26 7	8 26				π	△		□		
27	10	14	42	2 0	27 20	9 34	⚹	π				π		☊	π
28	13	18	35	27	28 33	10 46			□	△	π		⚹		
29	16	22	28	55	29 47	12 1	☊	☍				△		☌	△
30	19	26	21	3 23	1 ♊ 0	13 17			⚹	□	☍				

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date.	Time. H.	Time. M.	Phenomena.
	° ′	° ′	° ′	° ′	° ′				
1	0S 46	9 N 6	1N 52	1N 50	24 ♊ 1	2	9	0	☽ on Equator.
3	41	10 4	1 21	0 53	23 49	2	10	50	New Moon.
5	37	11 0	0 48	2	37	3	20	39	☽ at Apogee.
7	32	56	0 16	0 S 18	26	5	16	48	☿ on Equator.
9	28	12 50	0 S 15	1 10	14	8	12	46	☿ at ☌
11	23	13 43	0 42	1 30	3	9	1	45	☽ at First Quarter.
13	18	14 35	1 7	1 42	22 53	15	11	27	☽ on Equator.
15	13	15 25	29	1 49	43	16	16	20	Full Moon.
17	8	16 13	50	1 31	33	18	20	12	☿ at Aphelion.
19	3	17 2	2 7	1 14	24	20	13	49	☽ at Perigee.
21	0 N 2	17 47	2 21	0 49	15	20	16	0	♀ at ☊
23	8	18 31	2 33	0N 14	7	20	22	35	☉ enters ♉
25	13	19 12	2 42	0 26	21 59	22	20	0	☿ at Gt. Elong. 27° W11′
27	18	19 52	2 48	1 13	51	24	4	48	☿ on Equator.
29	23	20 29	52	2 7	44	24	20	33	☽ at Last Quarter.
						29	19	48	☽ on Equator.

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

Date.	♆ Lat.	♆ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1N 31	1 S 9	0 N 3	22 N 41	0 N 6	22 N 7	1 N 33	6 S 29	1 N 59	21 N 14
3	,,	9	,,	42	,,	6	32	24	57	20 58
5	1 30	8	,,	43	,,	5	32	20	54	41
7	,,	7	,,	44	,,	4	32	15	52	25
9	,,	6	,,	44	,,	2	31	11	50	7
11	,,	5	,,	45	,,	1	31	7	48	19 51
13	,,	4	,,	45	0 7	0	31	3	46	33
15	,,	4	,,	46	,,	21 58	30	5 59	44	15
17	,,	3	,,	46	,,	56	30	56	42	18 56
19	,,	2	,,	47	,,	54	29	52	40	36
21	,,	2	,,	47	,,	53	29	49	38	17
23	,,	1	,,	48	,,	52	28	46	36	17 57
25	,,	1	,,	49	0 8	51	28	44	34	37
27	,,	0	,,	49	,,	49	27	42	32	16
29	,,	0	,,	50	,,	47	27	40	30	16 55
31		0 59		51		45	26	39	28	33

Date	Longitudes. ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	☽	♅	♄	♃	♂	♀	☿	♇
	° ′	° ′	° ′	° ′	° ′	° ′									
1	15 ♊ 22	19 ♋ 30	20 ♎ 14	3 ♌ 51	2 ♊ 13	14 ♈ 34	☌	☍				□	☍		□
2	25	35	R 7	4 19	3 26	15 53			☍	✶	☍		☍		
3	28	39	1	47	4 40	17 15	☍	△			✶	☌		☍	✶
4	31	43	19 55	5 15	5 53	18 39			☌	☍	△		✶		
5	34	48	48	44	7 6	20 5		□				☍	☍		☍
6	38	52	42	6 13	8 20	21 34	✶		☍	☌	□			□	
7	41	57	35	42	9 33	23 4		✶				☌	✶		☌
8	44 20	1	29	7 11	10 45	24 37	□		✶	☍	✶				
9	47	7	22	40	11 58	26 12		☍						△	
10	51	12	16	8 9	13 11	27 47	△		□		☍	☍	□		☍
11	54	17	11	38	14 25	29 25				✶				π	
12	57	22	6	9 8	15 37	1 ♉ 7		☌			✶				✶
13	16 0	27	0	38	16 50	2 51	π		△	□	☌		△		
14	4	32	18 54	10 8	18 3	4 35		☍						♇	
15	7	37	49	38	19 16	6 22			π		☍	□	π		□
16	10	42	44	11 8	20 29	8 11	♇			△					
17	13	48	39	38	21 41	10 2		✶			△		π		△
18	17	53	34	12 8	22 54	11 54			♇	π	✶		♇		
19	20	59	29	39	24 6	13 49	π	□							
20	23 21	5	25	13 10	25 19	15 46			π		□	π		△	π
21	27	11	21	41	26 32	17 45				☌			π		
22	30	17	16	14 12	27 44	19 45	△	△				♇			♇
23	34	23	12	43	28 56	21 48			△	π	△			□	
24	37	29	8	15 14	0 ♋ 9	23 52	□	π				△			π
25	41	35	5	45	1 21	25 57			□	△	π	π			
26	44	41	1	16 17	2 34	28 4	✶	☌					□	✶	
27	48	47	17 58	49	3 46	0 ♊ 13			✶	□	☌	△			△
28	52	53	54	17 20	4 58	2 23	☍	π					✶	☍	
29	56	59	51	52	6 11	4 34			☍	✶	π				□
30	17 0	22 6	49	18 24	7 23	6 46		△							
31	3	12	47	56	8 35	8 58	☌		☌	△	✶	☍	☍	☌	✶

Date	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date.	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
1	0 N 29	21 N 5	2 S 54	3 N 4	21 ♊ 38	1	18 46	New Moon.
3	34	38	53	4 5	34	2	17 37	☽ at Apogee.
5	39	22 12	50	5 14	30	8	10 45	☽ at First Quarter.
7	44	37	44	6 23	24	12	17 41	☽ on Equator.
9	49	23 3	37	7 41	19	16	8 26	Full Moon.
11	54	26	26	9 1	15	17	4 0	☽ at Perigee.
13	59	47	15	10 21	12	21	21 56	☉ enters ♎.
15	1 4	24 5	1	11 45	9	24	0 43	☿ at Aphelion.
17	8	20	1 46	13 9	6	24	9 25	☽ at Last Quarter.
19	13	32	28	14 36	4	27	5 59	☽ on Equator.
21	17	39	9	16 2	2	28	4 0	☿ at ☊.
23	21	45	0 50	17 30	0	30	17 45	☽ at Apogee.
25	25	51	29	18 47	20 59	31	2 20	New Moon.
27	29	53	7	20 5	58	31	16 36	☿ at Sup. ☌ ☉
29	32	50	0 N 14	21 18	57			
31	36	46	34	22 22	56			

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	S.	4 36 40	10♊ 9 30	21 N59	0♋ 0	0N 51	24 N18	7♋28	5♎59
2	Su.	40 37	11 7 0	22 6	14 51	2 9	24 46	22 10	R 54
3	M.	44 34	12 4 29	13	29 18	3 17	24 31	6♌23	53
4	Tu.	48 31	13 1 57	20	13♌21	4 15	20 51	20 12	53
5	W.	52 27	13 59 24	27	26 58	4 57	17 4	3♍36	52
6	Th.	56 23	14 56 50	33	10♍ 9	5 11	12 33	16 36	52
7	F.	5 0 19	15 54 15	39	22 57	5 16	7 38	29 14	52
8	S.	4 15	16 51 39	45	5♎27	4 50	2 32	11♎35	51
9	Su.	8 12	17 49 1	51	17 40	4 43	2S 34	23 43	51
10	M.	12 9	18 46 23	57	29 42	4 6	7 31	5♍40	51
11	Tu.	16 6	19 43 43	2	11♍37	3 20	12 8	17 32	51
12	W.	20 3	20 41 2	7	23 26	2 36	16 17	29 20	51
13	Th.	24 0	21 38 20	11	5♐15	1 25	19 47	11♐9	51
14	F.	27 57	22 35 37	15	17 4	0 20	22 28	22 59	51
15	S.	31 54	23 32 54	18	28 57	0S 54	24 11	4♑55	51
16	Su.	35 51	24 30 10	20	10♑55	1 49	24 49	16 56	50
17	M.	39 47	25 27 26	22	23 0	2 49	24 16	29 7	D 50
18	Tu.	43 43	26 24 42	24	5♒16	3 42	22 33	11♒28	50
19	W.	47 39	27 21 57	25	17 44	4 25	19 45	24 3	50
20	Th.	51 35	28 19 11	26	0♓26	4 56	15 57	6♓54	51
21	F.	55 32	29 16 26	27	13 27	5 13	11 21	20 3	51
22	S.	59 29	0♋13 41	27	26 44	5 15	6 8	3♈31	51
23	Su.	6 3 26	1 10 56	27	10♈23	4 58	0 28	17 24	51
24	M.	7 23	2 8 10	26	24 25	4 23	5 N22	1♉33	51
25	Tu.	11 20	3 5 25	25	8♉48	3 31	11 4	16 4	51
26	W.	15 16	4 2 40	23	23 27	2 25	16 17	0♊52	51
27	Th.	19 12	4 59 55	21	8♊19	1 8	20 33	15 50	52
28	F.	23 8	5 57 9	19	23 20	0N 14	23 31	0♋50	52
29	S.	27 4	6 54 24	16	8♋18	1 35	24 47	15 44	52
30	Su.	6 31 0	7 51 39	23 13	26 6	2 49	23 15	0♌25	53

Date.	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
2	1N 30	0S 59	0N 3	22 N52	0N 8	21 N43	1N 26	5S 37	1N 27	16 N10
4	,,	58	,,	53	8	41	25	36	25	15 49
6	,,	58	,,	53	9	39	25	35	23	26
8	,,	58	,,	54	9	37	24	35	21	3
10	,,	57	,,	55	9	35	24	35	19	14 39
12	,,	57	,,	55	9	33	23	35	18	15
14	,,	57	,,	56	9	31	23	35	16	13 51
16	1 29	57	,,	57	9	28	22	35	14	26
18	,,	57	,,	57	9	25	22	36	13	1
20	,,	57	,,	58	10	23	21	37	11	12 35
22	,,	57	,,	59	10	21	20	38	9	10
24	,,	57	,,	59	10	18	20	40	8	11 44
26	,,	57	,,	23 0	10	15	19	42	6	18
28	,,	58	,,	1	10	13	19	5 44	4	10 52
30	,,	58	,,	1	10	11	18	4 47	3	25

Date	Longitudes. ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	Ψ	♅	♄	♃	♂	♀	☿	Pl
	° ′	° ′	° ′	° ′	° ′	° ′									
1	17♊ 6	22♋ 18	17♎ 44	19♌ 28	9♋ 19	11♊ 9		□			□				
2	10	25	R 41	20 0	10 59	13 20	☌		☌			□	☌	☌	☌
3	14	32	38	32	12 11	15 32		✱		☍			☍		
4	17	38	36	21 5	13 32	17 43	✱		✱		✱			☌	✱	☍
5	20	44	34	38	14 35	19 53				☌		☍			
6	24	51	32	22 11	15 47	22 2	□	☌					✱		☌
7	27	58	31	43	16 59	24 10			□	✱	☌	☌		□	
8	30 23	5	31	23 16	18 10	26 16		☍							✱
9	34	12	30	49	19 22	28 21	△		△	□	☍		□		
10	38	18	29	24 22	20 33	0♋24						✱		△	
11	41	26	28	55	21 45	2 24		☌				☌			□
12	45	33	28	25 28	22 57	4 22	☿		☿	△			□	△	
13	48	40	27	26 1	24 8	6 18		✱							☿	□
14	52	46	27	34	25 19	8 12			☍	☿	✱				
15	55	54 D	27	27 8	26 31	10 4	☍					△	☿		
16	58 24	1	27	42	27 42	11 53		□						☍	☿
17	18 2	8	28	28 16	28 39	13 39	☿		☿	☍	□	☿			
18	6	15	28	50 0 ♌	4 15	24							☍		☍
19	9	22	29	29 24	1 15	17 5		△	△		△			☿	
20	13	29	30	58	2 27	18 47	△			☿		☍	☿		
21	16	36	31	0♍32	3 38	20 25			□		☿				☿
22	20	43	32	1 6	4 49	21 58	□			△		☿		△	
23	23	50	34	40	6 0	23 30							△		△
24	27	58	35	2 14	7 11	25 1			✱	□	☍			□	
25	30 25	5	37	48	8 22	26 30	✱					△	□		□
26	34	12 20	39	3 22	9 32	27 55			☌	✱	☿			✱	
27	37	20	40	57	10 43	29 18	☌			☿	☌	△	✱		✱
28	41	28	42	4 32	11 53	0♌38			☍	☌	△			☌	
29	44	35	45	5 7	13 4	1 48	☍			☌	☌				☌
30	48	43	48	42	14 14	3 0			☌	☍	□				

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date	Time. H.	Time. M.	Phenomena.
	° ′	° ′	° ′	° ′	° ′				
2	1 N38	24N 38	0 N54	23 N18	20♊ 56	1	19	34	☿ at Perihelion.
4	41	27	1 11	24 4	56	6	21	39	☽ at First Quarter.
6	44	13	1 26	24 38	55	8	23	55	☽ on Equator.
8	46	23 58	1 39	25 3	55	12	23	51	☽ at Perigee.
10	48	39	1 52	25 19	55	15	0	11	Full Moon.
12	50	18	1 56	25 19	55				Lunar Eclipse.
14	51	22 55	2 0	25 12	55	22	6	31	☉ enters ♎
16	52	27	2 1	24 56	55	22	18	38	☽ at Last Quarter.
18	53	21 59	1 59	24 32	55	23	13	55	☽ on Equator.
20	53	28	1 54	23 52	56	27	22	11	☽ at Apogee.
22	53	20 54	1 47	23 25	55	29	9	37	New Moon.
24	53	18	1 37	22 43	55				
26	52	19 40	1 24	21 58	54				
28	51	1	1 14	21 14	53				
30	50	18 19	0 52	20 20	54				

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′ ″	° ′	° ′	° ′	° ′	° ′	
1	M.	6 34 57	8♒48 53	23 N 9	7♌38	3 N50	22 N 5	14♌46	5♓53
2	Tu.	38 54	9 46 6	5	21 4	4 36	18 36	28 42	54
3	W.	42 51	10 43 19	1	5♍30	5 4	14 12	12♍12	54
4	Th.	46 47	11 40 31	22 56	18 47	5 14	9 15	25 17	55
5	F.	50 44	12 37 44	51	1♎39	5 9	4 4	7♎57	55
6	S.	54 41	13 34 56	46	14 10	4 48	1 S 8	20 18	56
7	Su.	58 37	14 32 8	40	26 22	4 15	6 12	2♏22	56
8	M.	7 2 33	15 29 20	33	8♏20	3 32	10 57	14 18	57
9	Tu.	6 29	16 26 33	26	20 15	2 39	15 15	26 11	58
10	W.	10 25	17 23 45	19	2♐6	1 40	18 56	8♐0	59
11	Th.	14 22	18 20 57	11	13 54	0 37	21 51	19 48	6 0
12	F.	18 19	19 18 9	4	25 44	0S 28	23 50	1♑42	1
13	S.	22 15	20 15 21	21 55	7♑43	1 32	24 45	13 46	1
14	Su.	26 12	21 12 33	47	19 52	2 33	24 30	26 1	2
15	M.	30 9	22 9 45	38	2♒12	3 28	23 3	8♒26	3
16	Tu.	34 6	23 6 58	29	14 44	4 13	20 27	21 4	4
17	W.	38 2	24 4 12	19	27 28	4 46	16 51	3♓55	5
18	Th.	41 58	25 1 26	9	10♓25	5 6	12 23	16 59	6
19	F.	45 54	25 58 40	20 58	23 36	5 10	7 17	0♈16	7
20	S.	49 51	26 55 55	47	7♈2	4 57	1 46	13 48	8
21	Su.	53 48	27 53 10	36	20 42	4 27	3 N56	27 37	9
22	M.	57 45	28 50 26	24	4♉37	3 41	9 34	11♉40	10
23	Tu.	8 1 42	29 47 43	12	18 46	3 18	14 49	25 54	11
24	W.	5 39	0♌45 1	0	3♊6	1 30	19 17	10♊20	12
25	Th.	9 36	1 42 19	48	17 38	0 13	22 38	24 58	13
26	F.	13 33	2 39 37	35	2♋18	1N 5	24 31	9♋38	14
27	S.	17 29	3 36 57	21	16 58	2 20	24 41	24 16	15
28	Su.	21 25	4 34 18	7	1♌32	3 25	23 8	8♌45	16
29	M.	25 21	5 31 40	18 53	15 54	4 15	20 8	22 58	18
30	Tu.	29 17	6 28 14	39	29 57	4 49	16 0	6♍51	19
31	W.	8 33 13	7 26 38	18 25	13♍39	5 6	11 8	20 22	20

Date.	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	°
2	1N29	0 S 59	0 N 3	23N 2	0 N11	21N 9	1N18	5 S 50	1 N 1	9 N56
4	,,	1 0	,,	3	,,	6	17	53	59	29
6	,,	0	,,	3	,,	3	1,	57	58	1
8	,,	1	,,	4	,,	0	16	6 0	56	8 33
10	,,	1	,,	4	,,	20 57	16	3	55	5
12	,,	2	,,	5	0 12	54	15	7	54	7 36
14	1 28	2	,,	5	,,	51	15	11	52	7
16	,,	3	,,	6	,,	49	14	15	50	6 38
18	,,	4	,,	6	,,	46	14	20	49	9
0	,,	5	,,	7	,,	43	13	25	47	5 39
22	,,	6	,,	7	,,	40	13	30	46	9
24	,,	7	,,	8	0 13	37	12	35	44	4 39
26	,,	8	,,	8	,,	34	12	41	43	9
28	,,	9	,,	9	,,	31	11	46	41	3 38
30	,,	10	,,	9	,,	27	11	51	40	8

Date	Longitudes. ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	Ψ	♅	♄	♃	♂	♀	☿	P
	° ′	° ′	° ′	° ′	° ′	° ′									
1	18♊51	25♍50	17♎51	6♏17	15♌25	4♌16	☌	✶			☌		☌	☍	☍
2	55	58	55	52	16 35	5 32			✶	☌		☍			
3	58	26 5	58	7 27	17 45	6 43	✶	☌			☍		☌	☌	
4	19 2	13	18 1	8 2	18 56	7 49			□			☌			
5	5	21	4	37	20 6	8 45		☍		✶					
6	8	28	8	9 12	21 16	9 38	□		△		☍	☌		✶	✶
7	11	36	11	47	22 26	10 31				□			✶		
8	15	44	15	10 22	23 36	11 22		☌			✶			□	□
9	18	51	19	57	24 45	12 11	△		☌			□			
10	21	59	24	11 33	25 55	12 55		✶		△					
11	24	27 7	28	12 0	27 4	13 34	☌		☍		✶	□		△	△
12	28	14	33	46	28 14	14 9				☌			△		
13	31	22	38	13 22	29 23	14 41		□			△				☌
14	34	30	43	57	0♍32	15 10	☍		☌			□		☌	
15	37	38	48	14 32	1 41	15 32		△		☍			☌		
16	40	45	53	15 7	2 50	15 51			△		△	☌		☍	☍
17	43	52	58	42	3 59	16 10	☌			☌			△		
18	46 28	0 19	3	16 18	5 8	16 23		☌			☍	☍		☌	☌
19	49	8	9	55	6 17	16 26	△		□	△	☌				
20	53	16	15	17 32	7 26	16 R23		☍				☌		△	
21	56	23	21	18 9	8 34	16 14			✶		☍	☌	△		
22	59	31	27	45	9 42	16 2	□	☌		□		△		□	
23	20 2	39	33	19 21	10 51	15 49			☌		☌	△			
24	5	47	40	58	11 59	15 34	✶	△		✶			□		
25	8	54	47	20 34	13 8	15 13			☍		△	□	□	✶	✶
26	11	29 2	54	21 11	14 16	14 46	☌	□		☌					
27	14	10	20 1	48	15 24	14 10			☌		□	✶	✶	☌	☌
28	16	18	7	22 25	16 31	13 30	☍	✶		☍					
29	19	25	13	23 1	17 39	12 50			✶		✶		☌	☍	☍
30	22	33	20	38	18 46	12 9		☌		☌		☌			
31	25	41	28	24 15	19 54	11 27	☌						☍	☌	☌

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊
	° ′	° ′	° ′	° ′	° ′
2	1 N47	17N34	0 N32	19N25	20♊50
4	45	16 50	0 12	18 31	47
6	43	3	0 S 9	17 42	46
8	40	15 14	0 36	16 48	46
10	38	14 26	1 2	15 57	44
12	33	13 34	29	15 10	41
14	29	12 41	57	14 27	38
16	25	11 47	2 27	13 45	35
18	20	10 52	56	13 8	32
20	15	9 56	3 22	12 43	27
22	9	0	47	12 25	22
24	3	8 3	4 11	12 11	17
26	0 57	7 5	33	12 3	11
28	50	6 6	45	12 16	5
30	44	5 6	43	12 28	19 58

Date.	Time. H.	Time. M.	Phenomena.
4	20	0	☿ at Gt. Elong. 26° E 8′
4	20	13	☉ at Aphelion.
6	6	46	☽ on Equator.
6	10	40	☽ at First Quarter.
7	4	0	☿ at ☌
10	17	13	☽ at Perigee.
14	14	51	Full Moon.
15	20	30	☿ at Aphelion.
16	..		♀ at Max. Brilliancy.
20	19	26	☽ on Equator.
22	1	22	☽ at Last Quarter.
23	17	31	☉ enters ♌
25	17	36	☽ at Apogee.
28	17	24	New Moon.

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

Date.	☿ Lat.	☿ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1 N 28	1 S 11	0 N 3	23 N 9	0 N 14	20 N 25	1 N 10	6 S 57	0 N 38	2 N 38
3	,,	13	,,	10	,,	22	10	7 3	37	7
5	,,	14	,,	10	,,	19	10	10	35	1 36
7	,,	15	,,	10	,,	16	9	16	34	5
9	1 27	16	,,	11	,,	12	9	23	32	0 34
11	,,	18	0 4	11	,,	9	8	30	31	3
13	,,	19	,,	11	0 15	6	8	37	30	0 S 28
15	,,	20	,,	12	,,	3	8	44	28	59
17	,,	22	,,	12	,,	0	7	51	27	1 32
19	,,	23	,,	12	,,	19 57	7	58	25	2 3
21	,,	24	,,	12	,,	54	6 8	5	24	35
23	,,	26	,,	13	0 16	51	6	13	22	3 6
25	,,	27	,,	13	,,	48	5	21	21	38
27	,,	28	,,	13	,,	45	5	29	20	4 10
29	,,	30	,,	13	,,	42	5	37	18	41
31	,,	32	,,	14	,,	39	5	45	17	5 12

Date	♅ Longitudes.	♄	♃	♂	♀	☿	Lunar Aspects. ☉	☿	♅	♄	♃	♂	♀	☿	P
	° ′	° ′	° ′	° ′	° ′	° ′									
1	20 ♊ 27	29 ♉ 49	20 ♎ 36	24 ♍ 52	21 ♍ 2	10 ♌ 42				*	☌	☌			
2	29	57	44	25 29	22 9	9 R 57	*	☌					*	*	
3	31	0 ♌ 5	51	26 6	23 16	9 12			△		☍	☌			
4	34	12	59	43	24 22	8 29		☌		□			□		
5	36	20	21 7	27 20	25 29	7 47	□		☍		☌				□
6	37	27	15	57	26 35	7 7				△		*	*		
7	41	34	23	28 34	27 41	6 31	△	*						△	△
8	44	42	32	29 12	28 47	5 58			☌		*				
9	46	50	40	50	29 53	5 30		□		☍		□	□	☍	
10	49	58	48	0 ♎ 27	1 ♎ 0	5 7	☍		☍		□				☍
11	51	1 6	57	1 4	2 6	4 52				☌		△	△		
12	53	13	22 6	42	3 12	4 52		△						☌	☌
13	55	21	15	2 20	4 17	4 D 53	☌		△		△				
14	57	28	24	58	5 22	5 6		☍		☍		☍	☍	☍	☍
15	59	36	33	3 36	6 27	5 24	☍		□		☍				
16	21 1	43	43	4 15	7 32	5 40		☌		△		☌	☌	△	
17	3	51	52	53	8 36	6 2	△		*		☌				△
18	5	58	23 1	5 31	9 41	6 34		☍		□		☍		□	
19	7	2 5	10	6 9	10 45	7 16			☌				☍		□
20	9	12	19	47	11 49	8 7	□			*	☍				
21	11	19	29	7 25	12 53	9 7			△			△	△	*	*
22	13	26	39	8 4	13 56	10 10	*		☌	☌	△				
23	15	34	49	42	14 59	11 19		□				□	□	☌	☌
24	17	41	59	9 21	16 2	12 35	☌		☌	☌	□				
25	19	48	24 9	59	17 5	13 56		*				*	*	☌	☌
26	20	56	19	10 38	18 8	15 23				*	☌	*			
27	22	3 3	30	11 17	19 10	16 55	☌	☌					☌		☌
28	24	10	40	55	20 12	18 30			□		☌				
29	26	17	50	12 34	21 14	20 10	☌	☌		*					
30	27	24	25 1	13 13	22 15	21 54			△			☍	☌	*	*
31	28	31	11	52	23 17	23 40				□	☌				

Date.	♀ Lat.	♀ Decl.	♆ Lat.	♆ Decl.	Moon's ☊	Date.	Time	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
1	0 N 36	4 N 6	5 S 3	12 N 42	19 ♊ 52	2	14 22	☽ on Equator.
3	28	3 6	4 52	13 16	44	2	20 51	☿ at Inf. ☌ ☉
5	20	2 6	40	13 42	36	5	2 22	☽ at First Quarter.
7	12	1 6	21	14 26	28	7	2 36	☽ at Perigee.
9	3	0 5	3 56	15 5	19	9	15 55	♀ on Equator.
11	S 6	0 S 56	30	15 40	12	10	4 0	♀ at ♉
13	15	1 56	2 55	16 13	4	11	16 0	☌ on Equator.
15	25	2 57	21	16 39	18 52	13	3 56	Full Moon.
17	35	3 58	1 47	17 3	40	17	0 12	☽ on Equator.
19	45	4 57	15	17 15	26	20	6 48	☽ at Last Quarter.
21	56	5 57	0 41	17 19	13	23	8 49	☽ at Apogee.
23	1 6	6 56	10	17 14	3	24	0 1	☉ enters ♍
25	17	7 54	0 N 18	16 48	54	24	5 0	☿ at ♌
27	28	8 52	42	16 26	42	27	2 36	New Moon.
29	40	9 47	1 3	15 46	29	28	18 53	☿ at Perihelion.
31	51	10 46	19	14 53	16	29	23 13	☽ on Equator.

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	☿
		H. M. S.	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	Su.	10 39 22	8♍12 53	8N30	12♍33	2N51	12S48	18♍35	7♎15
2	M.	43 19	9 10 58	9	24 33	1 55	16 50	0♐30	17
3	Tu.	47 15	10 9 5	7 47	6♐24	0 55	20 29	12 18	19
4	W.	51 12	11 7 14	25	18 12	0S 7	23 2	24 7	11
5	Th.	55 9	12 5 25	3	0♑ 4	1 9	24 36	6♑ 2	23
6	F.	59 5	13 3 37	6 41	12 3	2 8	25 2	18 7	25
7	S.	11 3 2	14 1 50	18	24 15	3 4	24 18	0♒26	27
8	Su.	6 59	15 0 4	5 56	6♒43	3 51	22 20	13 4	29
9	M.	10 55	15 58 19	33	19 30	4 28	19 15	26 2	31
10	Tu.	14 51	16 56 36	10	2♓38	4 51	15 5	9♓20	33
11	W.	18 48	17 54 55	4 47	16 5	5 2	10 6	22 55	35
12	Th.	22 45	18 53 16	24	29 50	4 51	4 32	6♈47	37
13	F.	26 41	19 51 39	1	13♈48	4 24	1N22	20 55	39
14	S.	30 38	20 50 4	3 38	27 54	3 42	7 16	4♉58	42
15	Su.	34 35	21 48 31	15	12♉ 6	2 46	12 50	19 12	44
16	M.	38 32	22 47 0	2 52	26 18	1 39	17 43	3♊23	46
17	Tu.	42 28	23 45 31	29	10♊28	0 26	21 36	17 32	48
18	W.	46 24	24 44 4	6	24 35	0N48	24 9	1♋38	50
19	Th.	50 20	25 42 40	1 43	8♋39	1 59	25 9	15 39	52
20	F.	54 16	26 41 19	19	22 38	3 3	24 36	29 35	55
21	S.	58 13	27 40 0	0 56	6♌31	3 55	22 32	13♌25	57
22	Su.	12 2 10	28 38 43	33	20 16	4 33	19 10	27 6	8 0
23	M.	6 7	29 37 28	9	3♍52	4 54	14 57	10♍36	2
24	Tu.	10 4	0♏36 16	0S 14	17 16	5 0	9 37	23 53	4
25	W.	14 0	1 35 6	37	0♎27	4 50	4 15	6♎56	6
26	Th.	17 57	2 34 5	1 1	13 22	4 24	1S13	19 43	8
27	F.	21 53	3 32 48	24	26 0	3 45	6 32	2♏13	10
28	S.	25 50	4 31 40	48	8♏22	2 57	11 30	14 28	13
29	Su.	29 46	5 30 35	2 11	20 30	2 1	15 56	26 30	15
30	M.	12 33 43	6 29 36	34	2♐27	1 1	19 40	8♐23	17

Date.	☿ Lat.	☿ Decl.	♀ Lat.	♀ Decl.	♄ Lat.	♄ Decl.	♅ Lat.	♅ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
2	1N27	1 S33	0 N 4	23N14	0 N16	19N36	1N 4	8 S 53	0 N16	5 S 44
4	,,	34	,,	14	17	33	4	9 1	15	6 15
6	,,	36	,,	14	17	30	4	10	13	46
8	,,	38	,,	15	17	27	3	28	12	7 18
10	,,	40	,,	15	17	24	3	26	11	59
12	,,	41	,,	15	17	21	3	34	9	8 20
14	,,	43	,,	15	17	18	3	43	8	51
16	,,	45	,,	15	18	15	2	52	7	9 21
18	,,	47	,,	15	18	13	2	10 1	5	52
20	,,	49	,,	15	18	10	2	9	4	10 22
22	,,	51	,,	15	18	7	2	18	3	52
24	,,	52	,,	15	18	5	1	27	2	11 23
26	,,	54	,,	16	19	3	1	36	0 0	51
28	,,	5-	,,	16	19	0	1	44	0 S 1	12 20
30	,,	58	,,	16	19	18 58	1	53	3	50

Date	♅	♄	♃	♂	☿	♀	♇	Lunar Aspects. ☉ ☿ ♅ ♄ ♃ ♂ ♀ ♇ P
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
1	21♊29	3♌38	25♎22	14♎31	24 ♎17	25♌29		✶ ♅ □
2	30	45	33	15 10	25 18	27 20		☐ ✶ ☍ ☐ ♅ □ △
3	32	51	44	49	26 19	29 13		△ ✶ ♂ ✶
4	33	57	55	16 28	27 19	1♍ 7		☍ ☐
5	34	4 4	26 6	17 7	28 19	3 2		☐ ✶ ✶ △
6	35	11	17	46	29 19	4 58		△ ☐ ☐ ☍
7	37	17	28	18 25	0♍17	6 54		☍ ☐ ☐
8	38	24	39	19 5	1 14	8 49		△ ☍ ☐ ☍ ☍
9	39	31	50	45	2 11	10 44		☍ △ △
10	40	37	27 2	20 24	3 8	12 39		☍ ☐ △ △
11	40	44	13	21 4	4 5	14 34		☍ ☐ — ☍ ☍ ☍
12	41	50	24	44	5 2	16 29		△ ☍ ☍
13	42	56	36	22 23	5 58	18 24		☍ ☍ ☍ △
14	43 5	3	48	23 3	6 54	20 16		✶ ☍ ☍
15	43	9	59	43	7 50	22 7		☍ ☐ ☍
16	44	15	28 11	24 23	8 45	23 58		△ ♅ ☍ ☍ △
17	45	21	23	25 3	9 39	25 48		△ ✶ ☍ ✶
18	45	27	35	43	10 33	27 37		☐ ☌ △ △ ☐
19	46	32	47	26 23	11 26	29 25		☐ ♅ ☐ △ ♅
20	46	38	59	27 3	12 18	1♎12		✶ ♅ ☐ ☐
21	46	44	29 11	43	13 10	2 57		✶ ☌ ✶
22	47	50	23	28 27	14 2	4 42		✶ ☐
23	47	55	35	29 3	14 52	6 26		♅ ♅ ♅ ✶ ✶ ♅
24	47 6	1	47	43	15 42	8 9		☐ ✶ ♅
25	47	7	59	0♍24	16 32	9 51		☌ ✶ ♅ ♅
26	48	12	0♍11	1 5	17 21	11 32		☌ ♅ ☌ ☍
27	R 48	18	24	46	18 8	13 12		△ ☌ ☌
28	48	23	36	2 26	18 54	14 51		♅ ♅ ☐
29	47	28	49	3 7	19 40	16 25		☍ ☌ ♅
30	47	33	1 1	48	20 25	18 5		✶ ✶ △ ♅ ♅

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date.	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
2	2 S 3	11 S 42	1 N32	13 N50	17 ♊ 3	3	9 24	☽ at Perigee.
4	14	12 36	41	12 39	16 50	3	20 18	☽ at First Quarter.
6	26	13 30	46	11 20	37	7	20 0	♀ at Gt. Elong. 46°E16′.
8	38	14 22	48	9 56	24	11	15 28	Full Moon.
10	50	15 14	53	8 39	11	12	6 26	☽ on Equator.
12	3 2	16 4	43	6 55	15 58	13	14 40	♀ at Perihelion.
14	14	53	33	5 17	45	15	3 41	☿ at Sup ☌ ☉
16	26	41	30	3 46	32	15	3 49	☽ at Apogee.
18	38	18 27	22	2 12	19	18	12 16	☽ at Last Quarter.
20	50	19 11	11	0 36	6	21	6 12	☿ on Equator.
22	4 2	54	0 58	0 S 59	14 34	23	21 21	☉ enters ♎
24	14	20 35	47	2 31	41	25	6 40	☽ on Equator.
26	25	21 15	34	4 3	29	25	14 17	New Moon.
28	36	53	21	5 32	17			
30	47	22 26	7	6 59	5			

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H. M. S.	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	Tu.	12 37 40	7♎28 39	2S58	14♐17	0S2	22S32	20♐11	8♎20
2	W.	41 36	8 27 41	3 21	26 5	1 4	24 27	1♑59	22
3	Th.	45 32	9 26 43	44	7♑55	2 4	25 17	13 53	24
4	F.	49 29	10 25 47	4 8	19 55	2 59	24 56	25 58	26
5	S.	53 25	11 24 54	31	2♒6	3 48	23 24	8♒19	28
6	**Su.**	57 22	12 24 4	54	14 37	4 26	20 43	21 0	30
7	M.	13 1 18	13 23 17	5 17	27 29	4 52	16 57	4♓4	33
8	Tu.	5 15	14 22 31	40	10♓46	5 4	12 14	17 33	35
9	W.	9 11	15 21 46	6 3	24 27	4 59	6 48	1♈26	37
10	Th.	13 7	16 21 2	26	8♈30	4 34	0 52	15 39	39
11	F.	17 4	17 20 20	48	22 51	3 55	5N14	0♉6	41
12	S.	21 0	18 19 40	7 11	7♉23	2 59	11 9	14 42	43
13	**Su.**	24 57	19 19 3	34	22 1	1 50	16 30	29 19	45
14	M.	28 53	20 18 28	56	6♊37	0 34	20 52	13♊52	47
15	Tu.	32 49	21 17 55	8 19	21 6	0N44	23 52	28 17	50
16	W.	36 45	22 17 25	41	5♋24	1 58	25 18	12♋29	52
17	Th.	40 41	23 16 57	9 3	19 30	3 3	25 3	26 29	55
18	F.	44 37	24 16 31	25	3♌24	3 58	23 15	10♌15	57
19	S.	48 37	25 16 8	47	17 3	4 37	20 8	23 48	59
20	**Su.**	52 30	26 15 47	10 9	0♍30	5 1	15 59	7♍8	9 1
21	M.	56 27	27 15 28	30	13 43	5 7	11 8	20 16	4
22	Tu.	14 0 24	28 15 11	52	26 45	4 58	5 52	13♎10	6
23	W.	4 21	29 14 56	11 13	9♎33	4 37	0 26	5 52	8
24	Th.	8 18	0♍14 43	34	22 8	3 57	4S56	2♑21	10
25	F.	12 15	1 14 33	55	4♍31	3 10	10 3	10♍38	12
26	S.	16 12	2 14 24	12 16	16 42	2 13	14 42	22 44	14
27	**Su.**	20 9	3 14 18	36	28 43	1 12	18 43	4♐41	16
28	M.	24 6	4 14 13	57	10♐36	0 8	21 55	16 31	18
29	Tu.	28 3	5 14 10	13 17	22 24	0S36	24 10	28 17	21
30	W.	32 0	6 14 9	37	4♑11	1 57	25 21	10♑5	23
31	Th.	14 35 57	7 14 8	56	16 0	2 54	25 23	21 57	25

Date	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
2	1N 27	1S59	0N 4	23N16	0N19	18N56	1N 1	11S 2	0S 5	13S 19
4	,,	2 1	,,	,,	20	53	1	11	5	47
6	,,	3	,,	,,	20	51	0	19	6	14 15
8	,,	5	,,	,,	20	49	0	28	8	42
10	,,	6	,,	,,	20	47	0	37	9	15 10
12	,,	8	,,	,,	21	45	0	46	10	37
14	,,	10	,,	,,	21	43	0	55	11	16 3
16	,,	11	,,	23 15	21	41	0 59	12 4	13	29
18	,,	13	,,	,,	21	39	59	13	14	55
20	,,	15	,,	,,	22	37	59	22	15	17 20
22	,,	16	0 5	,,	22	36	59	30	16	44
24	,,	18	,,	,,	20 22	35	59	39	17	18 8
26	,,	20	,,	,,	23	34	59	48	19	32
28	,,	21	,,	,,	23	33	59	57	20	55
30	,,	23	,,	23 14	23	32	59	13 5	21	19 17

Date	Longitudes. ♅	♄	♃	♂	♀	☿	Lunar Aspects. ☉	☽	♅	♄	♃	♂	♀	☿	pl
	° ′	° ′	° ′	° ′	° ′	° ′									
1	21♊ 47	6♌38	1♍12	4♍29	21 ♍ 9	19♎42		⚹					☌	⚹	△
2	R 47	43	25	5 10	21 52	21 18			☍		⚹		☌	△	
3	47	48	38	51	22 35	22 53	□	□		π		⚹			π
4	47	53	50	6 32	23 18	24 27			π			☌	△		
5	46	57	2 3	7 13	23 58	26 1			☍	□	□				
6	46	7 3	15	54	24 37	27 35	△	△							☍
7	46	8	27	8 35	25 14	29 8			△		△		□	△	
8	45	12	40	9 16	25 51	0♍41	π	π		π		△			π
9	45	17	53	57	26 26	2 8		□					△		
10	44	21 3	6	10 39	27 1	3 34		☍		△	π	π		π	△
11	44	25	18	11 21	27 33	5 2	☍		⚹				π		
12	43	29	31	12 2	28 5	6 30		π		□	☍	☍		☍	□
13	42	33	44	44	28 35	7 58	π		⚻				☍		
14	41	37	57	13 25	29 4	9 23		△		⚹	π	π		π	⚹
15	40	41 4	10	14 7	29 31	10 46	△		☌						
16	39	45	23	49	29 56	12 7		□		⚻	△		π	△	
17	38	48	36	15 31	0♐20	13 33	□		⚻			△			⚻
18	37	52	49	16 13	0 42	14 58		⚹		☌	□		△		
19	36	56 5	2	55	1 2	16 20			⚹			□		□	☌
20	35	59	15	17 37	1 20	17 41	⚹				⚹		□		
21	34	8 3	28	18 19	1 36	19 0		⚻		⚻		⚹		⚹	⚻
22	33	6	41	19 1	1 50	20 18	⚻		□				⚹		
23	32	9	55	43	2 2	21 35		☌		⚹	⚻				⚹
24	31	12 6	8	20 25	2 13	22 50			△			⚻		⚻	
25	29	15	21	21 8	2 20	24 4	☌	⚻		□	☌		⚻		
26	28	18	34	50	2 26	25 16				π			☌		□
27	27	21	47	22 32	2 29	26 29	⚻						☌	☌	
28	25	23 7	1	23 15	2 30	27 40		⚹		△	⚻				△
29	23	25	14	57	2 R 27	28 45			☍			⚻			
30	21	27	27	24 40	2 22	29 47	⚹	□		π	⚹		⚻	⚻	
31	20	29	40	25 23	2 17	0♐49				π					π

Date	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
2	4 S58	23 S 2	0 S 7	8 S22	13♊ 54	1	12 0	☿ at ♍
4	5 8	35	24	9 51	43	1	17 15	☽ at Perigee.
6	18	24 4	36	11 11	32	3	15 21	☽ at First Quarter.
8	27	31	50	12 30	22	9	15 26	☽ on Equator.
10	36	57 1	4	13 43	12	11	2 7	Full Moon.
12	44	25 19	18	14 55	3	11	18 24	☿ at Aphelion.
14	51	40	31	16 4	12 54	12	..	♀ at Max. Brilliancy.
16	57	58	44	17 6	45	12	17 42	☽ at Apogee.
18	6 3	26 13	56	18 15	38	15	..	**Heliacal Setting of ♃**
20	6	25 2	8	19 10	32	17	18 58	☽ at Last Quarter.
22	10	34	19	20 4	26	22	13 39	☽ on Equator.
24	11	40	28	20 53	20	24	..	☉ enters ♎.
26	10	42	36	21 36	15	25	5 4	New Moon.
28	8	41	44	22 19	9	29	18 49	☽ at Perigee.
30	3	34	48	22 31	3			

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	♆
		H. M. S.	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	F.	14 39 54	8♏14 9	14 S 15	27♑57	3 S 44	24 S 15	4♒ 0	9♎27
2	S.	43 51	9 14 12	34	10♒ 7	4 26	21 59	16 18	29
3	Su.	47 48	10 14 17	54	22 35	4 55	18 39	28 55	31
4	M.	51 44	11 14 23	15 12	5♓24	5 11	16 22	11♓57	33
5	Tu.	55 40	12 19 30	31	18 38	5 11	9 16	25 27	35
6	W.	59 36	13 14 39	49	2♈21	4 53	3 34	9♈23	37
7	Th.	15 3 32	14 14 52	16 7	16 31	4 18	2 N 30	23 44	38
8	F.	7 28	15 15 7	25	1♉ 3	3 22	8 38	8♉26	40
9	S.	11 24	16 15 23	43	15 53	2 10	14 23	23 22	42
10	Su.	15 21	17 15 40	59	0♊52	0 59	19 22	8♊23	44
11	M.	19 18	18 15 59	17 16	15 52	0 N 23	23 4	23 20	46
12	Tu.	23 15	19 16 19	33	0♋45	1 43	25 9	8♋ 7	48
13	W.	27 12	20 15 41	49	15 25	2 55	25 27	22 37	50
14	Th.	31 8	21 17 5	18 5	29 46	3 54	24 2	6♌49	51
15	F.	35 4	22 17 31	11	13♌46	4 39	21 8	20 38	53
16	S.	39 1	23 17 59	36	27 25	5 6	17 9	4♍ 7	55
17	Su.	42 58	24 18 29	51	10♍44	5 15	12 24	17 16	57
18	M.	46 54	25 19 1	19 6	23 45	5 9	7 13	0♎ 9	58
19	Tu.	50 50	26 19 35	20	6♎29	4 47	1 59	12 46	10 0
20	W.	54 47	27 20 11	34	18 59	4 12	3 S 33	25 10	2
21	Th.	58 44	28 20 48	48	1♍17	3 25	8 43	7♍22	3
22	F.	16 2 40	29 21 25	20 1	13 25	2 30	13 29	19 26	5
23	S.	6 36	0♐22 2	14	25 25	1 29	17 41	1♐23	6
24	Su.	10 32	1 22 41	26	7♐20	0 24	21 9	13 14	8
25	M.	14 29	2 23 22	38	19 8	0 S 42	23 42	25 1	9
26	Tu.	18 26	3 24 5	50	0♑55	1 45	25 12	6♑48	11
27	W.	22 23	4 24 50	21 2	12 42	2 44	25 34	18 37	12
28	Th.	26 20	5 25 37	13	24 33	3 36	24 46	0♒31	14
29	F.	30 17	6 26 25	24	6♒31	4 19	22 49	12 34	15
30	S.	16 34 13	7 27 16	34	18 40	4 52	19 52	24 50	17

Date.	♆ Lat.	♆ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
1	1 N 27	2 S 24	0 N 5	23 N 14	0 N 24	18 N 31	0 N 59	13 S 13	0 S 22	19 S 38
3	,,	25	,,	14	24	30	59	22	23	59
5	,,	27	,,	14	24	30	58	31	24	20 20
7	,,	28	,,	13	24	29	58	39	26	40
9	,,	30	,,	13	25	29	58	47	27	59
11	1 28	32	,,	13	25	29	58	56	28	21 17
13	,,	33	,,	13	25	28	58	14 4	29	34
15	,,	35	,,	12	26	28	58	12	30	51
17	,,	36	,,	12	26	28	58	20	31	22 6
19	,,	37	,,	12	26	28	58	28	32	21
21	,,	38	,,	12	27	28	58	36	33	35
23	,,	40	,,	11	27	29	58	44	34	49
25	,,	41	,,	11	27	29	58	51	35	23 20
27	,,	42	,,	11	28	29	58	59	36	11
29	,,	43	,,	10	28	30	58	15 7	37	23

Date	Longitudes. ♅	♃	♄	♆	♂	☿	♀	Lunar Aspects. ☉	☽	♅	♄	♆	♂	☿	♀	♇
	°R ′	° ′	° ′	° ′	° ′	° ′	° ′									
1	21 ♊ 19	S ♌ 32	7 ♍ 51	26 ♍ 6	2 ♐ 10	1 ♐ 48										
2	17	34	8 5	49	1 R 59	2 46		□	△		☌	□			*	*	*	☌
3	15	36	19	27 31	1 45	3 40				△				□				
4	13	38	32	28 14	1 30	4 29		△	☍		☍	△			□	□		
5	12	40	45	57	1 13	5 11				□								☍
6	10	41	58	29 40	0 51	5 47							△	☍	△	△	△	
7	8	43	9 11	0♐23	0 27	6 17		☍	☌	*								△
8	6	44	24	1 7	0 2	6 43									☍	☍	☍	
9	4	46	37	50	29 ♏ 35	7 4		☌	☍	☍	□	☌						□
10	2	47	50	2 33	29 6	7 19									☌	☌	☌	
11	0	48	10 4	3 17	28 36	7 26		☍	△	☌	*	☍						*
12	20 58	49	17	4 0	28 4	7R 15									☍	☍	☍	
13	56	50	30	44	27 31	7 0		△	□	☍	☍	△						☍
14	54	50	43	5 27	26 56	6 34									△	△	△	
15	52	51	56	6 11	26 21	5 59			*		☌	□						☌
16	50	51	11 9	54	25 45	5 13		□		*					□			
17	48	52	22	7 38	25 8	4 18			☍		☍	*			□		□	☍
18	45	52	35	8 22	24 32	3 14		*		□						*		
19	43	53	48	9 6	23 56	2 4			☌		*	☍	*		*		*	
20	41	53	12 1	49	23 20	0 45				△					☍			*
21	39	53	14	10 33	22 44	29 ♏ 25		☍								☍		
22	37	53	27	11 17	22 9	28 4			☍		□	☌	☍					□
23	34	53	40	12 1	21 36	26 44		☌		☍					☌	☌		
24	32	53	53	42	21 10	25 28			*		△	☍	☌					
25	30	53	13 5	13	29 20	33 24	19			☌					☍	☍	△	
26	27	52	18	14 13	20 10	23 21		☍										
27	25	51	31	57	91 37	22 34			□		☍	*	☍					☍
28	23	50	44	15 42	19 12	21 57				☍					*	*		
29	21	49	56	16 26	18 48	21 27		*	△		☌							
30	18	48	14 9	17 10	18 27	21 13				△		□	*		□	□		☌

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊
	° ′	° ′	° ′	° ′	° ′
1	5 S 57	26 S 25	2 S 52	23 S 20	11 ♊ 57
3	48	12	53	23 44	54
5	36	25 53	50	23 58	51
7	21	29	43	24 3	48
9	4	1	32	24 0	46
11	4 44	24 28	16	23 48	44
13	21	23 51	1 55	23 23	42
15	3 56	9	26	22 44	41
17	28	22 26	0 52	21 52	41
19	3 0	21 39	13	20 48	40
21	2 29	20 52	0 N 28	19 35	40
23	1 58	5	1 8	18 20	40
25	27	19 18	41	17 14	40
27	0 57	18 33	2 8	16 22	40
29	26	17 51	26	15 47	41

Date.	Time. H.	M.	Phenomena.
2	0	1	♀ at Gt. Eloug. 23° W 34′
2	10	6	☽ at First quarter.
7	2	7	☽ on Equator.
8	..		**Hel. Set. of ♀ in the West.**
9	12	38	Full Moon.
10	12	30	☽ at Perigee.
16	4	0	☽ at Last Quarter.
18	..		♀ at Inf. ☌ ☉
18	..		**Hel. Rise of ♃**
19	20	36	☽ on Equator.
20	3	30	♀ at ♌
21	22	58	☿ at Inf. ☌ ☉
23	3	11	☉ enters ♐
23	22	53	New Moon.
23	..		**Hel. Rise of ♀ in the East.**
24	18	7	☿ at Perihelion.
25	20	48	☽ at Perigee.

Date	Day.	Sidereal Time.	☉ Long.	☉ Decl.	☽ Long.	☽ Lat.	☽ Decl.	Midnight ☽	Ψ
		H M S.	° ′ ″	° ′	° ′	° ′	° ′	° ′	° ′
1	Su.	16 38 10	8 ♐ 28 1	21 S 43	1 ♈ 4	5 S 12	15 S 58	7 ♓ 23	10 ♎ 18
2	M.	42 7	9 28 50	52	13 47	5 17	11 16	20 17	20
3	Tu.	46 4	10 29 42	22 1	26 54	5 7	5 55	3 ♈ 37	21
4	W.	50 0	11 30 34	10	10 ♈ 27	4 39	0 8	17 24	23
5	Th.	53 56	12 31 27	18	24 28	3 53	5N52	1 ♉ 38	24
6	F.	57 52	13 32 20	26	8 ♉ 55	2 52	11 45	16 17	25
7	S.	17 1 49	14 33 14	33	23 45	1 38	17 7	1 ♊ 16	26
8	Su.	5 54	15 34 10	40	8 ♊ 51	0 16	21 31	16 27	27
9	M.	9 41	16 35 6	46	24 6	1N 7	24 26	1 ♋ 45	28
10	Tu.	13 38	17 36 2	52	9 ♋ 20	2 26	25 33	16 53	29
11	W.	17 34	18 37 3	57	24 17	3 34	24 46	1 ♌ 40	31
12	Th.	21 31	19 38 3	23 2	8 ♌ 57	4 27	23 19	16 8	32
13	F.	25 28	20 39 3	7	23 13	5 0	8 31	0 ♍ 11	33
14	S.	29 24	21 40 4	11	7 ♍ 3	5 32	13 48	13 47	34
15	Su.	33 20	22 41 6	15	20 25	5 13	8 35	26 57	35
16	M.	37 17	23 42 9	18	3 ♎ 24	4 55	3 9	9 ♎ 45	36
17	Tu.	41 14	24 43 13	20	16 2	4 22	2 S 17	22 13	37
18	W.	45 10	25 44 18	22	28 22	3 38	7 30	4 ♍ 26	38
19	Th.	49 6	26 45 24	24	10 ♍ 28	2 45	12 21	16 28	39
20	F.	53 3	27 46 32	25	22 26	1 45	16 42	28 22	40
21	S.	57 0	28 47 41	26	4 ♐ 17	0 41	20 20	10 ♐ 11	40
22	Su.	18 0 56	29 48 51	27	16 5	0 S 24	23 7	21 58	41
23	M.	4 52	0 ♑ 50 0	27	27 52	1 28	24 54	3 ♑ 46	42
24	Tu.	8 49	1 51 9	26	9 ♑ 41	2 29	25 34	15 36	42
25	W.	12 46	2 52 18	25	21 33	3 23	25 3	27 31	43
26	Th.	16 43	3 53 27	24	3 ♒ 31	4 8	23 23	9 ♒ 32	44
27	F.	20 40	4 54 36	22	15 36	4 43	20 40	21 41	44
28	S.	24 37	5 55 45	19	27 50	5 5	17 0	4 ♓ 2	45
29	Su.	28 34	6 56 54	16	10 ♓ 18	5 13	12 33	16 38	46
30	M.	32 30	7 58 3	12	23 0	5 8	7 29	29 28	46
31	Tu.	18 36 26	8 59 12	8	6 ♈ 0	4 45	1 59	12 ♈ 38	46

Date.	Ψ Lat.	Ψ Decl.	♅ Lat.	♅ Decl.	♄ Lat.	♄ Decl.	♃ Lat.	♃ Decl.	♂ Lat.	♂ Decl.
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	°
1	1N28	2 S 44	0N10	23N 5	0N28	18N31	0N58	15 S 14	0 S 39	23 S 33
3	28	45	,,	10	28	32	58	22	40	41
5	29	46	,,	9	29	33	58	29	41	49
7	29	47	,,	9	29	34	59	36	42	55
9	29	48	,,	9	29	35	59	43	43	24 1
11	29	49	,,	8	30	36	59	50	44	6
13	29	49	,,	8	30	38	59	56	45	9
15	29	50	,,	8	30	39	59	16 3	46	12
17	29	50	,,	7	30	41	59	10	46	1.
19	29	51	,,	7	31	43	59	16	47	14
21	29	51	,,	7	31	45	59	22	48	13
23	30	51	,,	6	31	47	59	29	49	11
25	30	52	,,	6	31	49	59	35	50	9
27	30	52	,,	6	32	51	58	41	51	5
29	30	52	,,	5	32	53	59	46	51	0
31	30	52	,,	5	32	56	1 0	52	52	23 55

Date	♅	♄	♃	♂	♀	☿	Lunar Aspects: ☉	☽	♅	♄	♃	♂	♀	☿	pl
	° ′	° ′	° ′	° ′	° ′ R	° ′									
1	20 ♊ 15	8 ♌ 47	14 ♍ 21	17 ♐ 55	18 ♍ 9	21 ♍ 9									
2	R 13	R 46	34	18 39	17 R 52	21 16	□	☍	□	☍	△	□	△		☍
3	10	44	47	19 24	17 39	21 32								△	
4	8	43	59	20 9	17 27	21 56	△	☌		△	☍				△
5	5	41 15	12	53	17 18	22 32		✶				△	☍	☍	
6	3	39	24	21 38	17 11	23 13	☍	☍		□	☌				□
7	0	38	36	22 23	17 7	24 0			✶				☍	☌	
8	19 58	36	49	23 8	17 7	24 55	☌	△		✶	☍				✶
9	55	34 16	1	53	17 7	25 51		☌				☌	☍	☍	
10	52	32	13	24 38	17 10	26 57	□		✶	△					✶
11	50	30	25	25 23	17 16	27 59	☍		✶		☍	△	△		
12	47	28	37	26 8	17 24	29 8		✶		☌				☌	
13	44	26	49	53	17 35	0 ♑ 20	△		✶		□	△	□		
14	41	23 17	1	27 38	17 48	1 35		✶		✶				□	✶
15	39	21	13	28 23	18 3	2 51	□		□		✶		✶		
16	36	18	26	29 8	18 19	4 12						□		✶	
17	33	15	38	53	18 37	5 32		☌	△		✶		✶		✶
18	31	12	49	0 ♒ 39	18 58	6 52	✶			✶					
19	29	9 18	0	1 24	19 21	8 14		✶		□				✶	□
20	26	6	12	2 9	19 45	9 37	✶		☍		☌		☌		
21	24	3	23	55	20 12	11 2				△		✶			
22	21	0	35 3	40	20 40	12 26		✶	☌		✶		✶	☌	△
23	19 7	56	46 4	26	21 9	13 52	☌			✶					
24	16	52	57 5	12	21 38	15 23		□		☍		☌		✶	☍
25	13	48 19	9	57	22 9	16 54			☍		✶		✶		
26	11	45	20 6	43	22 46	18 20	✶			☌		✶			
27	9	41	31 7	29	23 24	19 45		△	△		□			✶	☌
28	6	38	42 8	14	24 1	21 14							□		
29	4	34	53 9	0	24 39	22 44	✶	☍		☍		✶			☍
30	1	30 20	4	46	25 19	24 14			□		△		△	□	
31	18 58	26	14 10	32	25 59	25 45	□	☌		△		□			△

Date.	♀ Lat.	♀ Decl.	☿ Lat.	☿ Decl.	Moon's ☊	Date.	Time.	Phenomena.
	° ′	° ′	° ′	° ′	° ′		H. M.	
1	0 N 2	17 S 12	2 N 36	15 S 33	11 ♊ 41	1	8 0	♀ at ☊.
3	30	16 37	38	15 37	42	2	3 13	☽ at First Quarter.
5	57	6	36	15 54	43	8	22 28	Full Moon.
7	1 21	15 40	29	16 23	44			Lunar Eclipse.
9	43	18	19	16 59	45	9	2 31	☽ at Apogee.
11	2 4	1	7	17 39	46	10	..	☿ at Gt. Elong. 20°E 44′
13	22	14 48	1 54	18 22	47	15	16 30	☽ at Last Quarter.
15	39	40	39	19 7	47	17	1 55	☽ on Equator.
17	54	35	25	19 51	47	22	15 22	☽ at Perigee.
19	3 8	34	9	20 33	47	22	16 20	☉ enters ♑
21	19	36	0 53	21 14	46	23	..	♀ at Max. Brilliancy.
23	30	40	37	21 52	46	23	18 37	New Moon.
25	39	48	22	22 27	45	29	12 0	♀ at ♉
27	46	59	7	22 56	44			
29	42	11	0S 14	23 22	42			
31	57	25	35	23 58	39			

Months and Dates.	Latitudes.										
	+5°	+8°	+11°	+14°	+17°	+19°	+23°	+26°	+29°	+32°	+35°
Jan. 6	6 10	6 16	6 21	6 26	6 31	6 34	6 42	6 48	6 55	7 2	7 9
13	11	16	21	26	31	36	44	50	56	1	8
20	14	19	23	26	32	36	44	50	56	0	6
27	16	19	24	27	31	35	42	46	50	6 58	3
Feb. 3	16	19	23	27	31	34	40	44	48	53	6 58
10	16	19	22	25	29	31	36	40	44	48	52
17	15	17	20	23	26	28	32	35	38	41	45
24	14	16	18	20	22	24	26	29	31	34	37
Mar. 3	12	13	15	16	18	19	21	23	24	27	28
10	8	9	10	12	13	14	15	16	17	18	19
17	5	6	6	6	8	8	8	9	9	9	9
24	3	2	2	2	2	2	2	1	0	0	0
31	0 5	59 5	58 5	58 5	56 5	55 5	55 5	53 5	52 5	51 5	50
Apr. 7 5	57	55	53	52	51	49	48	46	45	43	40
14	54	51	49	48	46	44	41	39	36	33	30
21	51	49	46	44	41	39	35	32	29	26	22
28	49	46	43	50	36	34	30	26	22	18	13
May 5	48	44	41	37	33	30	25	20	16	11	6
12	47	43	39	34	30	27	20	15	11	5 4	59
19	46	41	37	32	28	25	18	12	7	1	54
26	46	41	36	31	26	23	15	9	3 4	57	50
June 2	46	41	36	31	26	22	14	8	2	54	47
9	47	42	36	31	26	22	14	7	1	53	46
16	48	43	37	32	26	22	14	7	1	53	45
23	50	45	39	34	28	24	16	9	3	55	46
30	51	46	40	35	29	25	17	11	5	57	49
July 7	53	48	42	37	31	28	20	13	7	59	52
14	54	50	44	39	34	30	22	16	10 5	3	56
21	55	51	45	41	36	33	25	20	14	7 5	0
28	56	52	47	43	38	35	28	23	18	12	6
Aug. 4	57	53	49	45	40	37	31	27	22	16	11
11	56	53	49	45	42	39	34	30	2	21	16
18	56	53	50	47	44	42	37	33	29	25	21
25	55	53	50	48	45	43	39	36	33	30	27
Sep. 1	54	52	50	48	46	44	42	39	37	35	32
8	52	51	50	49	49	46	44	43	41	39	37
15	51	50	50	49	48	47	46	45	44	44	42
22	50	49	49	49	49	49	49	48	48	48	47
29	48	49	49	49	50	50	50	52	52	52	52
Oct. 6	46	47	48	49	51	52	53	54	55	56	58
13	45	47	48	50	52	54	56	57	59 6	1 6	4
20	45	47	50	52	54	55	58 6	1 6	3	6	9
27	45	48	51	53	56	58 6	2	5	8	12	16
Nov. 3	45	49	52	55	58 6	1	6	10	14	18	22
10	47	50	54	58 6	2	5	10	14	18	24	29
17	48	52	57 6	1	5	8	15	19	24	30	36
24	50	55 6	0	4	9	12	19	25	30	36	43
Dec. 1	53	58	3	8	13	16	24	30	36	42	49
8	56 6	1	7	12	18	21	29	35	41	48	55
15 6	0	5	11	16	21	25	33	39	45	53 7	0
22	3	8	14	20	25	29	37	43	50	57	4
29	6	11	17	23	28	32	40	46	53 7	0	7

Months and Dates.	Latitudes.										
	+5°	+8°	+11°	+14°	+17°	+19°	+23°	+26°	+29°	+32°	+35°
Jan. 6	18 1	17 56	17 51	17 46	17 39	17 36	17 29	17 23	17 17	17 10	17 3
13	4	59	54	50	45	42	34	29	23	17	9
20	7	18 3	58	54	49	46	39	33	28	22	16
27	9	6	18 2	57	53	50	44	39	34	28	23
Feb. 3	12	8	5	18 1	57	54	48	44	39	35	30
10	13	10	7	3	18 0	57	52	49	45	41	37
17	13	11	8	5	3	18 1	57	54	51	48	44
24	13	11	9	7	5	3	18 1	58	56	53	50
Mar. 3	13	11	10	8	7	6	4	18 2	18 1	59	57
10	12	11	11	10	9	8	7	6	5	18 4	18 3
17	12	11	11	11	10	10	10	10	9	9	9
24	10	11	11	11	12	12	12	13	13	14	14
31	9	10	11	12	13	14	15	16	18	19	20
Apr. 7	8	10	12	12	14	16	18	20	21	23	25
14	7	9	12	13	16	18	20	23	25	28	31
21	7	9	12	15	17	19	23	26	29	32	36
28	6	9	12	15	19	21	26	30	34	38	42
May 5	6	10	13	17	21	24	29	33	38	43	48
12	6	10	13	19	24	26	33	38	42	48	54
19	7	11	16	20	25	28	35	41	46	52	54
26	8	13	18	23	28	31	39	44	50	57	19 4
June 2	10	15	20	25	31	34	42	48	54	19 1	8
9	12	17	22	27	33	36	45	51	58	5	12
16	13	18	24	29	35	38	47	53	19 0	8	16
23	15	20	25	31	36	40	49	55	2	9	17
30	16	21	26	32	37	41	50	55	3	10	18
July 7	17	22	27	32	38	41	50	56	3	10	17
14	17	22	27	32	38	41	49	55	1	8	15
21	18	22	27	31	36	40	47	51	18 58	5	12
28	17	21	26	30	35	38	44	49	55	0	7
Aug. 4	16	19	23	28	32	34	41	46	50	18 56	1
11	14	18	21	25	28	31	36	40	45	49	18 54
18	12	15	18	21	24	26	31	34	38	42	46
25	10	12	14	17	19	21	25	27	30	33	37
Sep. 1	6	8	10	12	14	16	18	20	24	25	28
8	3	4	6	7	9	10	11	13	15	16	18
15	0	1	1	1	2	3	4	5	6	7	8
22	17 56	17 56	17 56	17 56	17 57	17 57	17 57	17 58	17 58	17 58	17 58
29	53	52	52	52	51	51	51	50	49	49	48
Oct. 6	50	49	48	46	45	44	43	42	41	40	38
13	47	45	44	42	40	39	37	35	33	31	29
20	44	42	40	38	36	34	31	29	26	23	20
27	42	40	37	34	32	30	26	22	19	16	12
Nov. 3	41	38	35	32	28	26	21	17	13	9	5
10	41	38	34	30	26	23	17	13	9	4	16 59
17	41	38	33	29	24	21	15	10	5	16 59	54
24	42	38	33	29	24	17	14	8	3	57	50
Dec. 1	44	39	34	29	24	17	13	8	2	56	49
8	46	41	36	31	26	23	15	8	2	55	48
15	50	45	39	34	28	25	17	10	4	57	50
22	53	48	43	37	32	28	20	13	7	17 0	52
29	57	53	46	41	35	32	24	17	11	4	56

The position of Pluto and mean longitudes of ☉, ☽ and ☊ in 1946.

Month and Date.	Pluto. Long.	Pluto. Lat.	Pluto. Decl.	Sun.	Moon.	Moon's Node.
	° ′	° ′	° ′	° ′ ″	° ′ ″	° ′ ″
Jan. 1	11♌17	6N 26	23N 35	280 19 2	257 14 7	29♊27 49
11	11R 4	28	40	290 10 26	28 59 57	28 56 3
21	10 51	29	45	300 1 49	160 45 48	28 24 16
31	10 38	30	49	309 53 12	292 31 38	27 52 30
Feb. 10	10 23	31	55	319 44 35	64 17 28	27 20 44
20	10 10	32	58	329 35 59	196 3 18	26 48 57
March 2	9 58	31	24 1	339 27 22	327 49 9	26 17 11
12	9 47	30	3	349 18 45	99 34 59	25 45 25
22	9 38	30	5	359 10 9	231 20 49	25 13 38
April 1	9 32	29	6	9 1 32	3 6 39	24 41 52
11	9 27	28	7	18 52 55	134 52 30	24 10 6
21	9 27	27	6	28 44 19	266 38 20	23 38 19
D						
May 1	9 28	26	5	38 35 42	38 24 10	23 6 33
11	9 30	25	4	48 27 5	170 10 1	22 34 47
21	9 36	24	1	58 18 28	301 55 51	22 3 0
31	9 44	23	23 58	68 9 52	73 41 41	21 31 14
June 10	9 55	22	54	78 1 15	205 27 32	20 59 28
20	10 9	22	50	87 52 38	337 13 22	20 27 41
30	10 22	21	46	97 44 2	108 59 12	19 55 55
July 10	10 38	21	41	107 35 25	240 45 2	19 24 9
20	10 56	22	35	117 26 48	12 30 53	18 52 23
30	11 14	22	31	127 18 12	144 16 43	18 20 37
August 9	11 33	23	27	137 9 35	276 2 33	17 48 50
19	11 54	24	23	147 0 58	47 48 24	17 17 4
29	12 9	25	19	156 52 22	179 34 14	16 45 18
Sep. 8	12 25	27	15	160 43 45	311 20 4	16 13 31
18	12 40	29	12	176 35 8	83 5 55	15 41 45
28	12 53	31	11	186 26 31	214 51 45	15 9 59
Oct. 8	13 4	33	10	196 17 55	346 37 35	14 38 13
18	13 11	35	10	206 9 18	118 23 25	14 6 26
28	13 17	37	11	216 0 41	250 9 15	13 34 40
Nov. 7	13 18	40	13	225 52 5	21 55 6	13 2 54
17	13 19	43	15	235 43 28	153 40 56	12 31 7
27	13R 18	45	18	245 34 51	285 26 46	11 59 21
Dec. 7	13 14	47	21	255 26 14	57 12 37	11 27 35
17	13 6	50	26	265 17 38	188 58 27	10 55 48
27	12 57	52	31	275 9 1	320 44 17	10 24 2
31	12 52	52	33	279 5 34	13 26 38	10 11 18

Ending Moments of Tithis for each date in 1946 (calculated in I. S. T.)

Date.	January. Ti.	January. Time.	February. Ti.	February. Time.	March. Ti.	March. Time.	April. Ti.	April. Time.	May. Ti.	May. Time.	June. Ti.	June. Time.
1	28	14 36	29	10 18	27	2 48	29	12 48	30	18 46	2	19 12
2	29	16 36	30	10 11	28	2 24	30	10 4	1	15 0	3	16 0
3	30	17 56	1	8 30	29 / 30	1 12 / 23 29	1	7 12	2	11 24	4	13 18
4	1	18 42	2	8 24	1	21 18	2	3 42	3	8 6	5	11 18
5	2	19 12	3	6 42	2	18 48	3 / 4	0 24 / 20 18	4	5 6	6	10 12
6	3	19 3	4	4 54	3	16 0	5	18 36	5	2 30	7	9 42
7	4	18 30	5	3 0	4	13 30	6	16 12	6 / 7	0 42 / 23 18	8	9 48
8	5	17 42	6 / 7	2 0 / 22 0	5	11 0	7	14 24	8	22 24	9	10 48
9	6	16 30	8	21 24	6	8 36	8	12 54	9	22 30	10	12 18
10	7	14 54	9	18 54	7	6 30	9	12 12	10	23 6	11	14 18
11	8	12 54	10	16 48	8	4 42	10	11 48	11	.. ..	12	16 30
12	9	10 42	11	15 1	9	3 12	11	11 48	11	0 18	13	19 12
13	10	8 18	12	13 30	10	2 0	12	12 42	12	1 24	14	21 48
14	11	6 0	13	12 54	11	1 6	13	13 12	13	3 24	15	.. ..
15	12	3 30	14	10 54	12	0 30	14	14 30	14	5 6	15	0 8
16	13 / 14	0 50 / 23 36	15	9 58	13	0 24	15	16 20	15	8 26	16	2 24
17	15	20 13	16	9 42	14	0 24	16	18 18	16	10 24	17	4 24
18	16	18 30	17	9 54	15	1 1	17	20 42	17	13 18	18	5 54
19	17	17 24	18	10 36	16	1 48	18	23 12	18	15 54	19	7 0
20	18	17 0	19	11 48	17	3 18	19	.. ..	19	18 0	20	7 36
21	19	17 10	20	13 48	18	5 18	19	1 54	20	19 54	21	7 42
22	20	17 48	21	16 0	19	7 48	20	4 24	21	20 54	22	7 6
23	21	19 12	22	18 36	20	9 54	21	6 36	22	21 24	23	5 54
24	22	21 12	23	21 12	21	12 42	22	8 12	23	21 6	24	4 6
25	23	23 42	24	23 24	22	15 6	23	8 48	24	20 5	25 / 26	1 48 / 23 1
26	24	...	25	.. ..	23	16 48	24	8 12	25	18 30	27	19 54
27	24	2 24	25	1 18	24	17 48	25	8 18	26	15 54	28	16 30
28	25	4 54	26	2 24	25	18 36	26	6 48	27	12 48	29	13 0
29	26	7 6	..	.. ..	26	18 24	27	4 30	28	9 42	30	9 37
30	27	9 0	..	.. ..	27	17 48	28 / 29	1 42 / 22 3	29	6 6	1	6 24
31	28	10 0	..	.. ..	28	16 12	..	.. ..	30 / 1	2 18 / 22 30	..	.. ..

Ending Moments of Tithis for each date in 1946 (calculated in I. S. T.)—(*concld.*).

Date.	July.		August.		September.		October.		November.		December.	
	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.	Ti.	Time.
1	2	3 30	4	11 0	5	2 54	6	23 30	7	21 6	7	14 54
2	3 4	1 6 23 12	5	11 6	6	4 42	7	.. ..	8	22 42	8	15 18
3	5	22 6	6	11 45	7	7 0	7	2 6	9	23 30	9	15 0
4	6	21 54	7	13 18	8	9 36	8	4 24	10	23 30	10	14 0
5	7	22 24	8	15 30	9	12 12	9	6 6	11	22 36	11	12 30
6	8	23 36	9	18 6	10	14 6	10	7 24	12	20 54	12	9 18
7	9	.. ..	10	20 24	11	15 42	11	7 42	13	18 36	13	6 0
8	9	1 24	11	22 28	12	16 42	12	7 18	14	15 42	14 15	2 30 23 19
9	10	3 36	12	.. ..	13	16 54	13	6 12	15	12 38	16	19 42
10	11	5 54	12	0 54	14	16 24	14	4 18	16	9 18	17	15 54
11	12	8 36	13	2 24	15	15 25	15 16	2 5 23 18	17	5 54	18	12 36
12	13	10 54	14	3 24	16	14 0	17	20 18	18 19	2 30 23 30	19	9 42
13	14	13 18	15	3 6	17	12 30	18	15 12	20	20 48	20	7 24
14	15	14 51	16	3 42	18	10 6	19	15 0	21	18 30	21	5 42
15	16	16 0	17	3 6	19	7 54	20	12 24	22	16 48	22	4 48
16	17	16 54	18	2 12	20	5 30	21	10 6	23	15 42	23	4 36
17	18	17 18	19 20	0 48 23 12	21	3 30	22	8 6	24	15 6	24	5 6
18	19	17 12	21	21 36	22 23	1 24 23 24	23	6 12	25	14 54	25	6 24
19	20	16 36	22	19 22	24	21 30	24	4 48	26	15 48	26	8 24
20	21	15 36	23	17 42	25	19 36	25	3 48	27	17 6	27	10 24
21	22	14 12	24	15 30	26	17 54	26	3 18	28	18 30	28	13 6
22	23	12 48	25	13 18	27	16 36	27	3 0	29	20 42	29	16 0
23	24	10 12	26	13 6	28	15 30	28	3 12	30	22 49	30	18 37
24	25	7 54	27	8 30	29	14 36	29	4 0	1	.. ..	1	21 12
25	26	5 6	28	6 18	30	14 17	30	5 4	1	1 30	2	23 36
26	27 28	2 6 23 12	29	4 24	1	14 30	1	6 36	2	4 18	3	.. ..
27	29	20 12	30	2 41	2	15 18	2	8 48	3	6 54	3	1 48
28	30	17 26	1	1 30	3	16 36	3	11 12	4	9 24	4	3 48
29	1	15 6	2	0 42	4	18 36	4	13 54	5	11 42	5	5 0
30	2	12 48	3	0 42	5	21 6	5	16 30	6	13 48	6	5 48
31	3	11 36	4	1 42	..	.. ..	6	19 0	..	.. ..	7	6 2

January.			February.			March.			April.			May.			June.		
Sign.	Date.	Time.	Sign.	Date.	Time.	Sign.	Date.	Time.	Sign.	Date.	Time.	Sign.	Date.	Time	Sign.	Date.	Time.
		H. M.			H. M.			H. M.			H. M.			H. M.			H. M.
♑	2	17 39	♒	1	10 51	♓	3	1 48	♈	1	14 43	♉	1	1 58	♋	1	12 0
♒	5	3 0	♓	3	17 0	♈	5	4 50	♉	3	15 39	♊	3	1 37	♌	3	13 11
♓	7	10 14	♈	5	21 5	♉	7	6 38	♊	5	15 58	♋	5	2 1	♍	5	16 32
♈	9	15 24	♉	8	0 17	♊	9	8 44	♋	7	17 55	♌	7	4 41	♎	8	1 33
♉	11	18 52	♊	10	3 16	♋	11	12 0	♌	9	22 12	♍	9	10 29	♏	10	12 36
♊	13	21 12	♋	12	6 29	♌	13	16 48	♍	12	4 54	♎	11	19 25	♐	13	1 29
♋	15	23 3	♌	14	10 21	♍	15	23 14	♎	14	13 41	♏	14	6 40	♑	15	14 6
♌	18	1 39	♍	16	15 35	♎	18	7 27	♏	17	0 40	♐	16	19 16	♒	18	1 42
♍	20	6 13	♎	18	23 11	♏	20	17 38	♐	19	12 59	♑	19	8 10	♓	20	11 11
♎	22	14 4	♏	21	9 35	♐	23	6 0	♑	22	1 57	♒	21	19 55	♈	22	17 44
♏	25	1 15	♐	23	22 10	♑	25	18 44	♒	24	13 22	♓	24	5 3	♉	24	21 19
♐	27	13 55	♑	26	10 29	♒	27	5 12	♓	26	21 15	♈	26	10 32	♊	26	22 34
♑	30	1 41	♒	28	20 3	♓	30	11 55	♈	29	1 10	♉	28	12 32	♋	28	22 41
												♊	30	12 23	♌	30	23 23

July.			August.			September			October.			November			December		
♍	3	2 23	♎	1	17 35	♐	2	23 2	♑	2	19 56	♒	1	16 2	♓	1	9 56
♎	5	8 56	♏	4	2 57	♑	5	11 42	♒	5	7 52	♓	4	1 53	♈	3	17 29
♏	7	19 17	♐	6	15 6	♒	7	23 4	♓	7	16 32	♈	6	7 54	♉	5	21 11
♐	10	7 45	♑	9	3 50	♓	10	7 12	♈	9	21 28	♉	8	10 13	♊	7	21 56
♑	12	20 33	♒	11	14 49	♈	12	12 17	♉	11	23 48	♊	10	10 37	♋	9	21 18
♒	15	7 44	♓	13	23 6	♉	14	15 33	♊	14	1 8	♋	12	10 48	♌	11	21 21
♓	17	16 41	♈	16	5 4	♊	16	18 16	♋	16	2 57	♌	14	12 24	♍	13	23 46
♈	19	23 26	♉	18	9 28	♋	18	21 5	♌	18	6 8	♍	16	16 39	♎	16	5 44
♉	22	4 0	♊	20	12 50	♌	21	0 45	♍	20	11 7	♎	18	23 47	♏	18	15 14
♊	24	6 49	♋	22	15 9	♍	23	5 11	♎	22	18 5	♏	21	9 30	♐	21	3 19
♋	26	8 15	♌	24	18 9	♎	25	11 11	♏	25	3 14	♐	23	21 14	♑	23	16 19
♌	28	9 29	♍	26	21 28	♏	27	19 46	♐	27	14 25	♑	26	10 8	♒	26	4 57
♍	30	12 5	♎	29	2 52	♐	30	7 3	♑	29	3 29	♒	28	22 55	♓	28	16 11
			♏	31	11 20												

Date.	Aspect	Time.	Distance.
	January.	H. M.	° ′
1	☽☌♄	20 33	0 11
3	☽☌♀	1 40	0 26
4	☽☌♇	12 11	2 7
4	☽☍♂	21 23	1 36
10	☽☍♆	6 22	3 58
11	☽☍♃	11 54	3 11
12	☉☍♇	13 5	0 5
14	☽☌♅	6 29	1 58
14	☉☍♂	20 26	4 12
16	♀☍♇	2 24	0 47
16	☽☍♄	15 43	0 4
16	♀☍♂	22 47	3 28
17	☽☌♇	10 20	1 54
17	☽☌♂	11 56	2 16
17	☽☍♀	13 37	1 21
17	☽☍☉	20 17	2 12
20	☌☌♇	17 34	4 17
23	☽☌♆	6 39	0 26
23	☿☍♂	7 33	2 51
23	☿☍♇	18 16	1 25
24	☽☌♃	18 55	3 58
28	☽☍♅	17 23	1 33
31	☽☍☌	10 34	2 38
31	☽☍♇	14 7	1 51
	February.		
1	☉☌♀	12 52	1 25
1	☽☌☿	20 49	1 18
2	☽☌☉	10 12	3 22
2	☽☌♀	10 29	1 36
6	☽☍♆	11 31	0 40
7	☽☍♃	19 46	2 56
11	☉☌☿	2 9	1 52
11	☽☌♅	7 24	1 33
13	☽☌☌	7 38	3 16
13	☽☌♇	15 16	1 43
15	☿☌♀	12 0	0 23
16	☽☍☉	9 58	3 57
16	☽☍♀	17 2	4 23
16	☽☍☿	18 34	4 35
19	☽☌♆	14 47	0 18
21	☽☌♃	4 5	2 47
25	☽☍♅	1 20	1 20
27	☽☍♇	22 8	1 40
27	☽☍☌	14 21	2 14
	March.		
3	☽☌☉	23 30	4 35
4	☽☌♀	13 8	2 30
5	☽☌☿	6 17	3 36
5	☽☍♆	17 58	0 22
7	☽☍♃	0 53	2 38
10	☽☌♅	7 42	1 10
12	☽☌☌	16 7	1 52
12	☽☌♇	19 32	1 40
18	☽☍☉	0 36	5 18
18	☽☌♆	21 52	0 23
18	☽☍♀	23 54	0 52
18	♀☍♆	3 41	0 22
19	☽☍☿	2 25	3 4
19	☿☌♀	20 30	4 18
20	☽☌♃	8 32	2 32
23	☿☍♆	8 9	4 37
24	☽☍♅	10 14	1 0
26	☉☌☿	14 33	2 57
27	☽☍♇	6 14	1 42
27	☽☍☌	9 57	0 40
31	♀☍♃	12 0	0 43
	April.		
3	☽☍♃	5 25	2 34
3	☽☌♀	11 57	3 14
6	☽☌♅	15 25	0 53
9	☽☌♇	1 27	1 16
9	☽☌☌	12 19	0 14
14	☽☍☿	11 22	3 26
15	☽☌♆	2 53	0 43
16	☽☌♃	8 53	2 38
18	☽☍♀	8 38	2 47
23	☽☍♇	15 52	2 10
29	☽☌☿	21 53	1 14
30	☽☍♃	10 31	3 45
	May.		
1	☽☌☉	18 46	3 14
3	☽☌♀	8 50	2 1
4	☽☌♅	2 26	3 54
5	☿☌♃	7 37	1 14
6	☽☌♇	11 9	2 20
7	☽☌☌	16 32	2 7
12	☽☌♆	7 25	1 10
13	☽☌♃	8 45	2 49
14	☽☍☿	16 32	1 36
16	☽☍☉	8 26	2 22
18	☽☍♀	4 19	0 35
18	☽☍☿	16 21	1 13
21	☽☍♇	2 33	2 23
22	☽☍☌	23 46	2 24
26	☽☍♆	20 43	1 15
27	☽☍♃	16 46	4 2
31	☽☌☿	1 0	1 47
31	☽☌♅	2 20	1 18
31	☽☌♇	15 24	0 31
31	☉☌☿	16 36	0 2
	June.		
2	☽☌♀	5 50	0 2
3	☽☌♇	0 31	2 42
5	☽☌☌	2 10	2 43
8	☽☌♆	12 47	1 47
9	☽☌♃	5 14	3 7
9	☉☌♅	11 38	0 6
14	☽☍♅	13 7	0 24
15	☽☍☉	0 11	0 9
16	☽☍☿	14 15	0 9
17	☽☍♀	0 48	1 40
17	☽☍♇	14 15	2 41
20	☽☍☌	11 5	3 26
24	☽☍♃	0 17	2 51
24	☿☌♇	11 9	1 25
28	☽☌♅	4 31	0 22
29	☽☌☉	9 37	1 1
30	☽☌♇	16 20	2 0
	July.		
1	☽☌☿	5 51	2 38
2	☽☌♀	2 18	2 22
3	☽☌☌	15 58	3 44
5	☽☍♆	20 5	1 4
6	☽☌♃	19 48	3 13
11	☽☍♅	23 15	0 19
14	☽☍☉	14 51	2 35
15	☽☍♇	3 3	2 40
16	☽☍☿	2 11	7 44
18	☽☍♀	3 39	2 51
18	☽☍☌	23 18	3 56
20	☽☍♆	10 27	1 14
21	☽☍♃	9 38	2 52
22	☉☌♇	2 41	0 12
25	☽☌♅	14 28	0 29
28	☽☌♇	8 17	2 49
28	☽☌☉	17 24	3 28
29	☽☌☿	7 5	8 21
	August.		
1	☽☌♀	0 12	3 58
1	☽☌☌	8 0	4 10
2	☽☌♆	4 23	1 4
2	☉☌☿	20 51	4 49
3	☽☌♃	9 1	3 9
8	☽☍♅	9 13	0 2
9	♀☌☌	9 46	0 28

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

Date.	Aspect	Time.
	January.	H. M.
2	☉ ☌ ♇	12 0
2	☿ ☌ ♆	21 21
3	☿ ☍ ♂	13 26
4	☿ ☌ ♄	1 26
5	☉ ☌ ♅	11 14
5	♂ ☌ ♆	19 18
6	♀ □ ♆	3 28
6	☿ ✶ ♃	12 19
7	☿ ☌ ♂	1 23
7	☿ ☌ ♇	3 19
8	♀ ☌ ♇	3 47
8	♂ □ ♃	11 12
10	♀ ☌ ♅	12 55
11	☉ ☍ ♅	4 0
12	☉ ♂ ♄	13 5
13	☿ ☍ ♇	23 52
14	☉ ♂ ♂	6 29
15	♀ ☍ ♅	4 19
15	☿ ☌ ♃	11 43
15	☿ □ ♆	17 5
16	♀ ♂ ♄	2 24
16	♀ ♂ ♂	22 47
17	☿ ☌ ♇	4 35
17	☉ □ ♃	8 48
19	☿ ☌ ♅	6 19
19	☉ ☌ ♅	18 29
20	♀ □ ♃	11 40
20	♂ ♂ ♄	17 38
20	☿ ☍ ♅	19 28
22	♀ ☌ ♅	4 37
23	☿ ☍ ♅	6 46
23	☿ ♂ ♂	7 33
23	☿ ♂ ♄	18 16
27	☿ ☌ ♃	16 51
29	☉ △ ♆	6 35
29	♀ △ ♆	22 15
31	☉ ♂ ♇	8 32
31	♀ ♂ ♇	14 50
	February.	
1	☉ ♂ ♀	12 52
2	♀ △ ♅	22 55
3	☉ △ ♅	5 25
3	☿ △ ♆	16 5
4	♀ ☌ ♂	1 13
4	☿ ♂ ♇	21 56
5	☉ ☌ ♂	13 18
6	♄ ☍ ♅	12 0
6	☿ △ ♅	14 37
7	♀ ☌ ♄	15 2
7	☿ ☌ ♂	16 50
8	☉ ☌ ♄	22 50
9	♀ ☍ ♂	5 35
9	☉ ☍ ♂	17 5
9	☿ ☌ ♄	21 30
10	☿ ☍ ♂	8 8
11	☉ ♂ ☿	7 24
12	♀ ☍ ♄	4 6
12	☿ □ ♆	8 18
12	☉ ♅ ♆	20 31
13	☿ ☍ ♄	3 47
13	♀ △ ♃	23 13
14	☿ □ ♃	10 40
14	☉ ☍ ♄	12 23
15	☿ ♂ ♀	12 0
15	☿ ♅ ♂	13 28
15	♀ ♅ ♂	14 7
16	☉ △ ♃	3 44
17	☿ ☍ ♅ ♆	2 3
17	♀ ☍ ♅ ♆	19 54
18	☉ ♅ ♄	13 2
18	♅ ♂ ♂	16 57
20	♀ ☌ ♄	1 12
20	☿ ☌ ♆	6 41
21	☿ ☌ ♇	9 52
21	☉ ☍ ♅ ♆	14 53
22	☿ ☍ ♃	10 21
22	♀ ☌ ♅	13 34
23	☉ ♅ ♄	0 0
23	☿ □ ♅	2 17
23	☿ △ ♂	11 8
24	♀ ☌ ♇	5 3
24	☿ ☍ ♇	14 20
25	♀ ♅ ♃	16 22
25	☿ △ ♄	19 26
26	☉ □ ♅	19 8
27	☿ ☍ ♃	5 18
27	☉ ☌ ♃	10 50
27	♀ △ ♂	11 40
	March.	
1	☉ ☌ ♇	9 41
2	☿ ☌ ♃	14 42
2	♀ △ ♄	15 17
3	☉ ♅ ♃	5 15
4	♀ ☍ ♃	14 44
4	☉ □ ♅	21 21
5	☿ ☌ ♅	16 45
6	☉ △ ♂	11 5
7	☉ ☍ ♇	6 29
7	♀ ♅ ♇	22 25
9	♀ ☌ ♃	3 54
9	☉ △ ♄	11 37
11	☉ ☍ ♃	14 13
13	♀ ☌ ♅	8 43
16	☉ ♅ ♇	3 20
17	☉ ☌ ♃	2 46
18	♀ ♂ ♆	3 41
19	☿ △ ♇	17 14
19	☿ ♂ ♀	20 30
19	☿ △ ♇	21 17
23	♀ ☌ ♇	4 32
23	☿ ♂ ♆	8 9
24	☉ ☌ ♅	7 26
26	♀ □ ♄	13 17
26	☉ ♂ ☿	14 33
28	♀ □ ♂	7 43
31	☉ △ ♇	3 3
31	♀ ♂ ♃	12 0
	April	
4	☿ ♃ ♀	5 55
4	☉ ✶ ♅	19 34
6	♂ □ ♃	14 29
8	☿ ☍ ♀	5 3
8	☉ □ ♄	23 22
10	♀ ☌ ♆	20 45
13	♀ □ ♇	2 3
13	☉ ♂ ♃	6 11
15	♀ ☍ ♇	15 28
17	♀ ♃ ♅	4 15
18	☿ ☌ ♀	1 25
19	☉ □ ♂	6 11
19	☉ ☌ ♆	6 26
20	☿ ☍ ♃	12 42
20	☿ ☌ ♅	19 0
21	♃ ☌ ♇	21 0
22	♀ ☌ ♃	13 45
22	♀ ♅ ♇	19 54
22	♂ ☌ ♃	21 0
24	☿ ♂ ♆	18 0
27	♀ ☍ ♃	0 36
27	☿ △ ♇	9 32
27	☉ ☌ ♆	14 26
28	☉ ☌ ♄	10 14
30	☉ □ ♇	15 22
	May.	
2	☿ ✶ ♅	3 9
2	♀ ✶ ♂	15 38
3	♀ ☌ ♄	11 58
3	☉ ☍ ♆	14 48
6	☿ ✶ ♂	14 15
6	☿ ♃ ♄	21 35
7	♀ ☍ ♂	2 24
7	☿ ☌ ♇	19 53
7	☿ ♃ ♅	21 53
7	♀ □ ♃	22 28
8	♂ ♃ ♄	1 50
8	☉ ☍ ♄	18 14
9	☉ △ ♃	4 9
9	☉ ♂ ♅	5 14
13	♀ ☌ ♆	6 15
13	☿ □ ♆	6 27
13	♀ ☍ ♅	8 15
15	☿ ♃ ♇	10 55
15	☉ ♃ ♄	22 4
16	♀ ♃ ♂	12 0
17	☉ ☌ ♇	0 52
17	♃ △ ♅	16 48
18	☿ ☌ ♂	4 18
19	☿ ♃ ♅	3 40
19	☿ □ ♃	17 43
20	♂ ☍ ♆	6 55
21	♂ ☍ ♄	15 33
23	☿ ☍ ♅	2 38
23	♀ ☌ ♃	2 57
23	♀ ✶ ♆	8 57
23	☿ ☌ ♆	17 32
24	☿ ♂ ♄	11 9
25	♂ ☌ ♇	3 45
25	☿ ☍ ♂	20 28
26	☉ ☍ ♇	15 0
27	♀ ♂ ♇	4 7
28	☉ □ ♆	9 53
28	☉ ☍ ♀	18 51
30	☿ ☌ ♃	7 50
30	♂ ♃ ♆	19 34
	July.	
2	☿ ✶ ♆	19 25
2	☿ ☌ ♃	20 7
3	☉ ☍ ♇	5 34
3	♀ ✶ ♃	16 33
4	♀ ✶ ♅	14 9
5	☿ ♃ ♂	2 51
6	♀ ☌ ♆	5 2
7	☿ ♂ ♇	14 27
11	♀ ♃ ♄	13 8
11	☉ □ ♃	15 14
11	♂ ☌ ♄	16 19
12	♂ ☍ ♃	4 23
14	♀ ☍ ♆	1 25

Date.	Aspect	Time.
		H. M.
15	♀ ☌ ♅	10 31
17	♀ ☍ ♄	9 17
17	☉ ☌ ♆	12 26
18	☿ ♃ ♂	6 47
18	♂ ☍ ♇	14 3
22	☉ ♂ ♄	2 41
23	♀ ♃ ♇	17 28
23	♂ ♃ ♃	21 30
24	♂ □ ♅	17 5
26	☿ ☍ ♄	6 24
26	☿ ☌ ♀	18 56
29	♀ ☍ ♇	1 27
30	☿ ☍ ♀	3 4
30	☉ ✶ ♆	8 6
31	♃ △ ♅	0 0
31	♀ ✶ ♃	1 37
31	☿ ♂ ♇	4 55
31	♀ □ ♅	23 16
	August.	
1	♀ ✶ ♃	1 37
2	☉ ♂ ☿	20 51
2	☿ ☍ ♂	21 23
3	☿ ☍ ♀	0 0
3	♂ ☍ ♇	21 36
3	☿ ☌ ♃	21 53
4	☉ ♂ ♇	14 33
9	♀ ♂ ♂	9 46
10	♀ ✶ ♄	11 10
11	♂ ✶ ♄	13 33
14	☿ ✶ ♀	4 37
14	☉ ✶ ♅	14 11
15	♀ ♂ ♆	18 5
16	☉ ✶ ♃	10 3
17	☿ ☍ ♅	12 48
18	☉ ☍ ♀	15 26
18	☿ ✶ ♆	20 47
20	♀ ✶ ♇	13 55
20	♂ ♂ ♆	15 15
23	♀ ☌ ♄	1 5
23	☿ ☌ ♃	22 55
24	☿ ♂ ♇	1 18
25	☉ ☍ ♆	0 52
27	☉ ♃ ♄	2 35
27	☉ ☌ ♅	12 0
28	♂ ✶ ♇	21 44
29	♀ △ ♅	16 53
30	☿ ☍ ♆	15 57
30	☿ ✶ ♀	23 28
31	☉ ♃ ♆	11 8
	September.	
		H. M.
1	♀ ☌ ♇	8 41
1	☿ ✶ ♃	10 17
2	☉ ☍ ♂	10 44
2	♀ ♂ ♃	19 12
3	☉ ☍ ♄	3 42
3	♂ ☌ ♄	13 28
4	☉ ☍ ♃	5 37
4	☿ ☍ ♆	14 58
4	☿ ☍ ♂	18 38
5	☉ ♃ ♇	16 33
5	☿ ☌ ♅	18 41
6	☿ ♃ ♄	1 39
7	☿ ♃ ♆	14 1
9	☿ ☍ ♄	10 35
10	☿ ☍ ♃	6 15
10	☿ ♃ ♇	11 47
11	☿ ☍ ♂	22 42
12	♀ □ ♄	6 21
12	♂ △ ♅	10 9
13	♂ ☍ ♇	12 51
13	☉ ☌ ♄	13 52
14	♀ ☌ ♅	7 12
14	☿ ☍ ♃	9 2
15	☉ ♂ ☿	3 41
15	☿ □ ♅	6 48
15	♀ ♃ ♆	9 21
15	☿ ☍ ♇	10 4
15	☉ ☍ ♃	17 14
16	☿ ♃ ♂	20 34
16	☿ ♇ ♇	23 22
18	☿ ☍ ♃	13 35
19	☿ ♃ ♃	2 30
21	☿ □ ♇	2 43
21	☉ □ ♅	14 29
21	☉ ♃ ♂	15 46
22	♀ ☍ ♆	11 2
23	☿ ✶ ♄	4 29
23	☉ ♃ ♃	10 59
24	☿ ♂ ♆	10 49
24	♀ ☍ ♅	14 24
24	♂ ♂ ♃	15 29
25	☉ ☌ ♀	4 0
26	☿ ✶ ♇	6 37
26	☿ ☍ ♀	6 56
30	☉ ✶ ♄	13 48
30	☿ ♇ ♄	19 18
	October.	
2	☉ ♂ ☿	9 28
2	☿ △ ♅	19 19
3	☿ ♃ ♀	3 41
3	☿ ♄ ♂ ♅	7 12
4	♂ ☍ ♅	20 47
4	♂ ♇ ♇	21 8
5	☿ ☍ ♄	5 9
7	☉ ✶ ♇	5 39
7	♂ ♃ ♆	10 45
10	☿ ♂ ♃	2 28
12	☿ ☍ ♅	8 30
13	☿ ☍ ♄	6 0
13	☉ ♇ ♄	19 52
14	☿ ♃ ♆	1 35
14	♂ ☍ ♇	1 48
15	☉ △ ♅	20 48
16	♂ ⊥ ♆	13 51
17	☿ ☍ ♇	3 48
17	♂ ♃ ♅	15 52
18	☿ ⊥ ♆	11 42
18	☿ ♃ ♅	23 17
19	☉ ⊥ ♀	3 36
19	☉ ♇ ♇	7 52
20	☿ ♂ ♂	9 32
23	☿ ☍ ♅	11 4
25	☿ ♂ ♆	14 46
25	♂ ☍ ♅	23 42
26	♃ ☌ ♅	1 43
26	☉ ♃ ♂	17 3
30	♂ ♂ ♆	2 3
30	☉ ☌ ♅	14 45
	November.	
1	☉ ♂ ♃	0 44
1	☉ □ ♄	19 27
1	☿ ♂ ♀	19 38
2	☉ ♃ ♆	18 13
5	♃ □ ♄	1 5
6	☉ □ ♇	12 48
7	♀ ♂ ♂	13 23
8	☉ ☍ ♅	8 17
9	♃ ♃ ♆	22 55
14	☉ ♃ ♅	4 8
15	☿ ♂ ♂	8 20
18	☉ ♂ ♀	0 14
19	♂ △ ♄	4 46
20	♂ ☍ ♆	4 45
21	☉ ♂ ☿	22 58
24	♂ ♃ ♃	2 35
24	☿ ♂ ♆	18 51
25	♂ △ ♇	5 53
25	♀ ☍ ♅	15 36
25	♃ □ ♇	10 9

Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.	Date.	Aspect	Time.
December.		H. M.			H. M.			H. M.			H. M.
1	♃ ☌ ♅	2 24	9	☿ ∠ ♆	1 58	20	♂ ☌ ♄	10 30	27	☿ ☍ ♅	2 5
1	♀ ⚹ ♂	17 30	10	☿ ☐ ♄	2 18	20	☉ ☐ Pl	20 8	27	☿ ⚹ ♃	7 28
1	☉ △ ♄	23 12	10	☉ ⚹ ♀	1 15	21	♀ ☐ ♅	3 42	27	♂ ☐ ♄	18 0
3	☉ ✶ ♆	8 20	12	☉ ♂ ♅	15 43	21	☿ ✶ ♆	5 43	29	☿ ☐ ♄	9 24
4	♂ ☍ ♅	11 29	15	♂ ☐ Pl	4 42	22	♂ ∠ ♃	8 22	29	☉ ☌ Pl	12 22
6	♂ ⊥ ♃	1 49	15	☉ ☐ ♆	9 36	22	☿ △ Pl	23 1	29	☿ ☐ ♆	12 33
6	☉ △ P	4 41	16	☉ ☐ ♄	2 3	24	☉ ☌ ♄	12 21	31	☿ ⚹ ♀	18 35
7	☿ ☐ ♆	13 38	19	☿ △ ♄	10 35	26	♃ ☐ ♅	19 22	31	♂ □ ♆	19 18
						26	♂ ☌ Pl	22 44	31	♀ ∠ ♆	19 48

Heliacal Risings and Settings of all Planets in 1946.

Mercury.

Sets.	*Rises.*
20th Jan. in East	25th Feb. in West
20th Mar. in West	31st Mar. in East
18th May in East	10th June in West
21st July in West	10th Aug. in East
3rd Sept. in East	9th Oct. in West
15th Nov. in West	27th Nov. in East
31st Dec. in East	

Venus.

Sets.	*Rises.*
26-12-45 in East	8-3-46 in West
9-11-46 in West	23-11-46 in East

Saturn.

Sets on 3rd July 1946.
Rises on 7th August 1946.

Moonrise.

5th January.	29th July.
3rd February.	28th August.
5th March.	26th September.
3rd April.	26th October.
2nd May.	25th November.
1st June.	25th December.
30th June	

Jupiter.

Sets on 15th October 1946.
Rises on 18th November 1946.

Mars.

Sets on 24th November 1946.

Date.	Aspect	Time.
January.		H. M.
5	☿ ∥ ♅	2 46
5	☉ ∥ ☿	15 46
6	☉ ∥ ♅	15 0
9	☿ ∥ ♀	14 24
12	☉ ∥ ♄	22 54
16	♀ ∥ ♅	0 0
20	♀ ∥ ♄	3 26
27	☿ ∥ ♅	13 30
29	☿ ∥ ♄	15 42
February.		
15	☉ ∥ ☿	22 18
16	☿ ∥ ♀	21 20
19	☉ ∥ ♀	12 0
21	☿ ∥ ♃	3 22
24	♀ ∥ ♃	5 9
26	☉ ∥ ♃	4 0
March.		
5	☿ ∥ ♆	22 32
8	☿ ∥ ♀	2 8
10	☉ ∥ ☿	1 40
17	☉ ∥ ♀	5 8
17	☉ ∥ ♆	8 0
17	☿ ∥ ♆	13 33
25	☉ ∥ ♆	9 0
29	☉ ∥ ☿	11 40
30	♀ ∥ ♃	2 34
April.		
2	☿ ∥ ♆	7 43
9	☉ ∥ ♃	18 51
10	☿ ∥ ♆	14 24
19	♂ ∥ ♅	4 38
23	♂ ∥ ♄	15 41
27	☿ ∥ ♆	10 15

Date.	Aspect	Time.
May.		H. M.
7	☿ ∥ ♃	6 49
16	☉ ∥ ♂	19 18
24	☿ ∥ ♂	1 20
30	☉ ∥ ☿	7 19
30	☿ ∥ ♄	9 8
31	☉ ∥ ♄	0 0
June.		
5	☿ ∥ ♂	11 0
9	☉ ∥ ♅	14 11
13	☉ ∥ ♀	5 3
14	♀ ∥ ♅	10 0
20	♀ ∥ ♄	19 30
22	☉ ∥ ☿	8 27
23	☿ ∥ ♅	17 43
28	☿ ∥ ♄	12 55
July.		
3	☉ ∥ ♅	0 0
17	♂ ∥ ♃	21 53
27	♀ ∥ ♃	6 0
August.		
7	♂ ∥ ♆	0 0
7	♀ ∥ ♆	5 2
7	♀ ∥ ♂	13 30
10	♀ ∥ ♂	21 0
11	☉ ∥ ☿	8 58
12	♀ ∥ ♆	5 54
16	♂ ∥ ♆	20 32
26	♀ ∥ ♃	13 56
29	☉ ∥ ♀	5 34

Date.	Aspect	Time.
September.		H. M.
4	☿ ∥ ♀	13 5
6	☉ ∥ ♂	8 48
9	☿ ∥ ♃	14 17
11	☿ ∥ ♂	3 5
18	☉ ∥ ☿	17 52
19	☿ ∥ ♆	0 14
19	♂ ∥ ♃	7 39
19	☉ ∥ ♆	8 50
20	♀ ∥ ♄	10 59
23	☿ ∥ ♆	15 12
28	☉ ∥ ♆	20 43
October.		
3	♀ ∥ ♅	9 0
6	☿ ∥ ♃	17 29
14	☿ ∥ ♂	13 19
19	☿ ∥ ♄	8 35
26	♂ ∥ ♄	10 0
28	☉ ∥ ♃	12 0
November.		
14	☿ ∥ ♅	0 38
15	♀ ∥ ♅	8 34
17	☿ ∥ ♂	1 25
18	♀ ∥ ♂	3 0
21	☉ ∥ ☿	5 50
23	☉ ∥ ♀	6 12
23	☿ ∥ ♄	6 15
24	♂ ∥ ♅	23 12
27	♀ ∥ ♄	16 34
December.		
6	☿ ∥ ♀	22 41
7	♀ ∥ ♃	18 37
13	☉ ∥ ♅	18 0
14	☿ ∥ ♄	5 27
28	☿ ∥ ♅	6 28
29	☉ ∥ ☿	3 0
31	☿ ∥ ♂	8 29

January.

Date.	Aspect		Time. H.	M.
1	☉	♂	1	47
	☿	♃	20	33
2	♄	☍	2	13
	♂	☍	13	25
	♃	✱	7	45
3	♀	♂	1	40
	☉	♂	17	56
	Ψ	□	10	4
	♅	☍	21	32
4	♄	♇	12	11
	☿	♅	13	30
	♃	□	18	7
	♂	♇	21	23
5	♀	♅	18	14
	Ψ	△	19	19
	☉	♅	1	12
6	♅	△	5	36
	♄	☍	19	34
7	♃	△	2	2
	♂	☍	3	13
	☿	✱	3	32
8	Ψ	☍	1	43
	♀	✱	6	8
	♅	□	11	40
	☉	✱	17	43
9	♄	△	0	57
	♂	△	7	10
	♃	☍	7	50
	☿	□	14	56
10	Ψ	♇	6	22
	♅	✱	15	52
	♀	□	16	9
11	☉	□	1	52
	♄	□	4	33
	♂	□	9	28
	♃	♇	11	54
12	☿	△	0	2
	Ψ	☍	9	27
	♅	♅	18	36
	♀	△	23	55
13	♄	✱	6	49
	☉	△	8	24
	♂	✱	10	36
	♃	☍	14	41
14	☿	☍	7	52
	Ψ	△	11	21
15	♅	♂	20	26
	♀	☍	0	35
	♄	♅	8	23
	♂	♅	11	2
	☉	☍	14	3
	♃	△	16	48
16	Ψ	□	13	24
	☿	♇	15	43
	♅	♅	22	20
17	♄	♂	10	20
	♂	♂	11	56
	♀	♇	13	37
	♃	□	19	29
	☉	♇	20	17
18	♃	✱	16	25
19	☿	☍	1	5
	♅	✱	1	30
	♄	♅	13	51
	♂	♅	14	26
	♀	☍	22	59
20	♃	✱	0	3
	☉	☍	4	57
	Ψ	♅	21	49
21	♅	□	7	30
	☿	♂	14	8
	♂	✱	19	43
	♄	✱	20	19
22	♃	♅	7	50
	♀	△	12	32
	☉	△	17	39
23	Ψ	♂	6	39
	♅	△	16	51
24	♂	□	4	13
	♄	□	6	4
	☿	□	8	11
	♃	♂	18	55
25	♀	□	6	30
	☉	□	10	29
	Ψ	☍	18	26
26	♅	☍	4	53
	♂	△	14	58
	♄	△	18	14
27	☿	✱	6	30
	♃	✱	8	18
28	♀	☉	2	30
	☉	✱	4	55
	Ψ	✱	6	48
29	♅	☍	17	23
	♂	☍	1	54

February.

Date.	Aspect		Time. H.	M.
1	☿	♂	20	49
2	Ψ	△	2	29
	☉	♂	10	12
	♀	♂	10	29
	♅	△	11	42
	♂	☍	16	56
	♄	☍	22	42
3	♃	△	12	12
4	Ψ	☍	7	52
	☿	♅	10	3
	♅	□	16	43
	☉	♅	19	33
	♀	♅	20	45
	♂	△	21	7
5	♄	△	3	11
	♃	☍	16	30
6	Ψ	♂	11	31
	♅	✱	20	13
	☿	✱	21	3
	♂	□	23	48
7	☉	✱	3	3
	♀	✱	5	26
	♄	□	6	22
	♃	♂	19	46
8	Ψ	☍	14	30
	♅	♅	23	9
9	♂	✱	2	12
	☿	□	7	18
	♄	✱	9	8
	☉	□	9	58
	♀	□	13	24
	♃	☍	22	49
10	Ψ	△	17	26
11	♅	♂	2	9
	♂	♅	4	38
	♄	☍	6	14
	♃	✱	20	5
30	☿	♅	3	45
	Ψ	□	18	17
	♀	♅	20	30
	☉	♅	21	28
31	♅	☍	3	55
	♂	♇	10	34
	♄	♇	14	7

Date.	Aspect		Time. H.	M.
	♄	♅	11	57
	☉	△	17	1
	☿	△	17	40
	♀	△	21	32
12	♃	△	2	0
	Ψ	□	20	45
13	♅	♅	5	36
	♂	♂	7	38
	♄	♂	15	16
14	☉	☍	0	44
	☿	☍	3	8
	♃	□	5	45
	♀	☍	6	26
15	Ψ	✱	1	43
	♅	✱	9	57
	♂	♅	11	44
	♄	♅	19	40
16	☉	♇	9	58
	♃	✱	10	45
	♀	♇	17	2
	♇	♅	18	34
17	Ψ	♅	6	31
	♅	□	16	5
	♂	✱	17	39
18	♄	✱	2	1
	♃	♅	17	42
	☉	☍	22	1
19	♀	☍	6	48
	☿	☍	11	58
	Ψ	♂	14	47
20	♅	△	0	55
	♂	□	2	22
	♄	□	11	10
21	♃	♂	4	5
	☉	☍	13	48
22	♀	△	0	30
	Ψ	♅	1	54
	☿	△	10	5
	♅	☍	12	32
	♂	△	13	55
	♄	△	22	55
23	♃	♅	16	20
24	☉	□	8	5
	Ψ	✱	14	45
	♀	□	20	28
25	♅	♂	1	20
	♂	☍	2	47
	☿	□	9	58
	♄	☍	11	26

March.

Date.	Aspect		Time. H.	M.
26	♃	✱	4	37
27	☉	✱	1	25
	Ψ	□	2	13
	♅	☍	12	42
	♂	♂	14	21
	♀	✱	16	19
	♄	♂	22	8
28	☿	✱	6	40
	♃	□	14	17
1	Ψ	△	10	42
	☉	♅	14	43
	♅	△	20	37
	♂	☍	22	32
2	♀	♅	4	10
	♄	☍	5	15
	♃	△	20	19
	☿	♅	21	4
3	Ψ	☍	15	35
	☉	♂	23	30
4	♅	□	1	3
	♂	△	3	11
	♄	△	9	4
	♀	♂	13	8
	♃	☍	23	19
5	☿	♂	6	17
	Ψ	♂	17	58
6	♅	✱	3	17
	☉	♅	5	29
	♂	□	5	49
	♄	□	10	59
	♀	☍	19	46
7	♃	♂	0	53
	☿	♅	13	17
	♅	☍	19	37
8	♂	♅	5	6
	♄	✱	8	7
	☉	✱	11	0
	♀	☍	12	37
9	♅	✱	1	24
	♃	☍	2	42
	☿	✱	19	50
10	♅	△	21	52
	♂	♂	7	42
	♄	♂	11	21
	♀	♅	15	24
	☉	□	17	35
11	♃	△	5	26
	♀	□	10	38
12	Ψ	□	1	25
	☿	□	2	50
	♅	♅	11	44
	♂	♂	16	7
	♄	♂	19	32
13	☉	△	1	59
	♃	□	9	42
	♀	△	20	26
14	Ψ	✱	6	31
	☿	△	10	16
	♅	✱	17	18
	♂	♅	22	38
15	♄	♅	1	13
	☉	☍	12	22
	♃	✱	15	13
16	☿	☍	6	9
	♀	☍	8	45
	Ψ	♅	13	17
17	♅	□	0	36
	♂	✱	7	2
	♄	✱	8	39
	♃	♅	23	3
18	☉	♇	0	56
	Ψ	♂	21	52
	♀	♇	23	54
19	☿	♇	2	25
	♅	△	9	47
	♂	□	17	33
	♄	□	18	1
20	♃	♂	8	32
	☉	☍	16	8
21	Ψ	♅	8	21
	☿	☍	11	13
	♀	☍	17	7
	♅	☍	20	47
22	♄	△	5	34
	♂	△	6	26
	♃	♅	20	2
23	☉	△	9	58
	☿	△	20	56
	Ψ	✱	21	3
24	♅	♇	10	14
	♀	△	13	38
	♄	☍	18	33
	♂	♅	20	55
25	♃	✱	8	26
26	☉	□	4	2
	☿	□	9	16
	Ψ	□	9	22
	♅	☍	22	0
27	♄	☌	6	14
	♀	□	8	7
	♂	☌	9	57
	♃	□	18	56
28	☉	✱	18	53
	Ψ	✱	18	54
	☿	✱	23	48
29	♅	△	7	14
	♄	☍	14	36
	♂	☍	19	18
	♀	✱	22	1
30	♃	△	1	47
	☿	♅	14	51
31	Ψ	☍	0	24
	☉	♅	4	32
	♄	△	18	51

April.

Date.	Aspect		Time. H.	M.
1	♅	□	0	6
	♃	☍	4	50
	☿	♂	15	25
2	Ψ	♇	2	29
	☉	♂	10	50
	♅	✱	13	0
	♄	□	19	26
3	♂	□	2	41
	♃	☌	5	25
	♀	♂	11	57
	☿	♅	13	58
4	Ψ	☍	2	54
	☉	♅	14	4
	♅	☍	14	26
	♄	✱	20	44
5	♂	✱	4	15
	♃	☍	5	24
	☿	✱	13	4
	♀	♅	16	50
6	Ψ	△	3	28
	♅	♂	15	25
	☉	✱	18	31
7	♄	♅	22	0
	♃	△	6	27
	♂	♅	7	2
	☿	□	9	40
	♀	✱	23	36
8	Ψ	□	5	48
	♅	♅	18	34
9	♄	♂	1	27
	☉	□	1	45
	♃	□	9	42
	♂	♂	12	19
	☿	△	17	56
10	♀	□	7	52
	Ψ	✱	10	34
11	♅	✱	0	11
	☉	△	11	48
	♄	♅	7	23
	♃	✱	15	20
	♂	♅	20	13
12	☿	☍	0	38
	Ψ	♅	17	42
	♀	△	22	11
13	♅	□	8	8
	♄	✱	15	40
	♃	♅	23	9
	☉	☍	0	46
14	♂	✱	6	39
	☿	♂	11	22
15	Ψ	♂	2	53
	♀	☍	14	30
	♅	△	18	12
16	♄	□	1	59
	♃	♂	8	53
	☉	♂	16	20
	♂	□	17	10
17	☿	☍	0	48
	Ψ	♅	14	0
18	♅	☍	6	7
	♀	♂	8	38
	♄	△	14	6
	♅	☍	18	15
	♃	♅	20	34
19	♂	△	9	49
	☉	☍	10	0
	☿	△	17	24
20	Ψ	✱	2	32
	♅	♇	19	14
21	♄	☍	3	26
	♀	☍	4	58

Date.	Aspect		Time. H.	M.
22	☽	☌	8	22
	♂	☍	1	7
	☉	△	4	22
	☿	□	10	7
	♀	□	15	16
23	♃	☍	7	55
	♄	☌	15	52
	♅	□	20	7
	♆	△	23	31
24	☽	☍	14	46
	♂	□	20	33
25	☉	△	1	57
	☿	☌	2	39
	♀	△	17	54
	♃	△	1	26
26	♄	△	4	41
	♅	☌	14	34
27	♆	☍	0	35
	☽	☍	8	28
	♂	☍	8	56
	☉	□	14	32
28	☿	□	0	5
	♀	△	7	7
	♃	☌	9	21
	♄	☍	23	49
29	♅	☍	6	5
	♆	☌	11	55
	☽	△	15	13
	♂	☌	21	53
30	☉	☌	2	24
	☿	☍	9	3
	♀	□	10	31

May.

Date.	Aspect		Time. H.	M.
1	♀	□	4	59
	♂	☌	8	0
	☿	☍	15	21
	☉	☌	18	46
2	♄	☌	2	24
	♅	☍	2	53
	♃	☍	9	5
	☽	☌	9	54
3	♀	☌	8	50
	♂	☍	9	5
4	☿	△	11	42
	☉	☌	16	21
	♄	☌	2	26
	♅	☍	6	51
	♃	△	9	13
	☽	△	9	34
5	♆	☍	7	57
	☿	□	12	19
	♀	□	13	47
6	♄	☍	3	56
	♅	☌	2	9
	♃	□	10	52
	☽	□	11	9
	♂	□	14	18
7	☿	☍	15	34
	♀	☍	16	32
	♄	△	22	19
8	♅	☍	8	28
	♃	☍	10	45
	☽	☍	15	11
	♂	☍	16	13
9	☿	□	2	19
	♀	△	22	19
10	♄	☌	1	15
	♅	□	11	6
	♃	□	16	14
	☽	△	22	37
11	♂	△	22	42
	☿	☌	0	34
	♀	☍	19	16
12	♄	☍	7	25
	♅	☍	13	16
13	♃	△	2	44
	☽	△	3	1
	☿	☌	8	45
	♀	☌	11	38
14	♂	☍	14	42
	♄	☍	16	32
	♅	□	18	57
15	♃	☍	3	41
	☽	□	15	7
	☿	☌	20	30
	♀	☌	22	36
16	♂	☌	0	20
	♄	☍	8	26
17	♅	☍	7	36
	♃	☍	16	20
	☽	△	19	13
18	☿	△	4	19
	♀	☌	9	1
	♂	☌	13	44
19	♄	☌	16	21
	♅	☍	20	22
20	♃	☍	10	38
	☽	☍	16	38
	☿	□	17	7
	♀	□	21	6
21	♂	□	2	33
	♄	△	13	18
	♅	☌	19	47
22	♃	△	7	41
	☽	☌	23	46
23	☿	△	3	53
	♀	△	7	4
	♂	□	13	3
	♄	□	14	11
24	♅	□	4	40
	♃	□	9	25
	☽	□	16	3
25	☿	□	9	31
	♀	□	11	17
	♂	△	13	45
	♄	△	19	59
26	♅	☌	6	21
	♃	☌	15	13
	☽	☌	18	30
	☿	☍	20	43
27	♀	☍	14	53
	♂	☍	15	0
	♄	△	16	46
	♅	□	23	12
28	♃	□	17	9
	☽	☌	21	21
	☿	☌	22	7
	♀	☍	23	29
29	♂	☍	15	43
	♄	☍	17	9
	♅	□	17	22
	♃	□	23	47
30	☽	△	21	46
31	☿	△	0	5
	♀	△	1	0
	♂	☌	2	20
	♄	☌	15	24
	♅	☍	16	31
	♃	☍	18	36
	☽	□	23	36

June.

Date.	Aspect		Time. H.	M.
1	☿	□	21	29
2	♀	☌	5	10
	☉	☌	6	26
	♄	☌	9	8
	♅	□	15	49
	♃	☍	16	38
	☽	☍	20	45
3	♂	☍	21	28
	☿	☌	0	31
4	♀	☌	12	4
	☉	☍	13	9
	♄	☍	18	55
	♅	☍	19	25
	♃	☍	21	5
5	☽	☍	2	10
	☿	□	4	26
6	♀	□	4	9
	☉	□	21	39
	♄	☌	23	33
7	♅	☌	1	35
	♃	☌	1	46
	☽	☌	11	14
	☿	☍	12	10
	♀	☍	14	48
8	♂	☍	12	47
9	♄	☍	11	38
	♅	□	11	48
	♃	△	12	19
	☽	△	15	44
	☿	□	23	4
10	♀	△	0	38
11	☉	△	13	44
	♄	☌	0	22
12	♅	☌	23	52
	♃	☍	0	18
13	☽	☍	5	54
	☿	△	10	54
	♀	△	12	16
	♂	□	16	21
14	♄	□	13	13
	♅	☍	14	33
	♃	☍	12	46
15	☽	☌	13	37
	☿	☌	23	4
	♀	☍	0	11
	♂	☍	1	14
	♄	△	6	33

July

Date.	Aspect		Time. H.	M.
30	♃	□	3	13
	♅	☌	4	57
	♄	☌	16	20
1	☽	☌	5	51
	☿	☍	9	6
	♂	☌	9	41
	☉	☌	14	4
2	♀	☌	2	18
	♃	☍	5	21
	♅	☍	6	54
	♄	☌	18	20
3	♆	☌	12	43
	☽	☌	14	22
	☿	☌	15	58
	☉	☍	22	2
4	♃	☌	10	37
	♀	☌	12	20
5	♄	☍	1	54
	♂	☌	20	5
6	☽	☌	1	58
	☿	☍	2	36
	☉	□	10	40
	♅	△	21	53
7	♃	☍	3	24
	♀	□	12	37
8	♆	☌	7	12
	♂	☍	13	18
	☽	□	18	33
9	♃	☌	8	5
	♅	☌	10	7
	♀	□	10	7
	☉	△	14	37
	☿	☍	19	55
11	♂	□	9	57
	☽	△	13	38
	♃	☍	21	28
	♅	☍	21	49
	♄	☍	23	15
12	♀	△	15	3
	☿	△	17	34
13	♆	□	8	37
	♂	△	23	48
14	☽	☍	2	23

Date.	Aspect		Time. H.	M.
	♃	□	9	45
	♅	☍	11	48
	☉	☌	14	51
15	♄	☌	3	3
	♀	☍	10	56
	☿	△	19	27
16	☽	□	2	11
	♂	△	7	56
	♆	☍	12	46
	♅	☌	21	24
17	☉	☍	5	5
	♄	☍	12	46
18	♃	☍	2	10
	♀	□	3	39
	☽	☍	22	57
	♂	☍	23	18
19	☿	☍	3	52
	♅	□	5	8
	☉	△	16	37
	♄	△	20	15
20	♃	□	10	27
	♀	☍	12	46
	☽	△	4	18
21	♂	☍	7	22
	☿	□	9	38
	♅	☌	10	43
22	☉	□	1	22
	♄	□	1	26
	♃	☍	14	38
	♀	△	21	26
23	☽	□	7	4
	♂	△	13	13
	☿	☍	13	20
	♅	☍	14	8
24	♄	☌	4	44
	☉	☌	7	48
	♃	△	17	10
25	♀	□	4	0
	☽	☌	8	6
	♂	☌	14	28
	♆	△	15	33
26	♄	□	17	0
	♄	□	6	36
	☉	☍	12	38
	♃	□	18	27
27	☽	☌	7	35
	☿	☌	9	14
	♅	☍	15	44
	♆	□	17	3

August.

Date.	Aspect		Time. H.	M.
1	♅	□	0	8
	♀	☌	0	12
	♆	☌	0	19
	♂	☌	8	0
	♄	☌	17	18
2	☿	☌	4	23
	☽	☌	10	48
	☉	☌	10	57
3	♅	△	8	23
	♆	☌	9	1
	♀	☌	13	52
	♂	☌	19	38
4	♄	□	3	14
	♃	□	15	30
	☿	□	19	8
5	☉	□	2	22
	♅	☍	20	5
	♆	☌	21	12
6	♀	☌	7	48
	♂	☌	10	56
	♄	△	14	1
7	♃	☌	4	16
	☿	△	4	42
	☽	△	20	33
8	☉	△	9	13
	♅	☌	10	50
9	♀	□	2	47
	♂	□	3	4
	♄	☍	5	27
	♃	☍	14	22
	☿	□	16	57
28	♄	☌	20	19
	♂	☌	8	17
	☉	☌	17	24
	♆	☌	19	54
29	♃	☌	7	5
	♀	☌	15	13
	♅	☌	19	23
	♅	☌	19	31
30	♂	☌	0	40
	♅	☌	11	18
	♆	☌	23	6
31	☉	☌	0	11
	♃	☌	8	19

Date.	Aspect		Time. H.	M.
10	☉	☍	13	46
	☿	☍	20	6
	♃	□	23	8
11	♄	☌	17	1
	♂	△	17	9
	♀	△	19	33
12	☿	☌	0	11
	Ψ	△	3	31
13	☉	☌	3	56
	♅	△	6	23
	♃	△	8	52
14	♄	☍	1	43
	♂	☍	4	12
	☿	☍	8	27
	♀	☍	8	43
	Ψ	☍	11	22
15	☉	☍	14	45
	♅	□	13	5
	♃	△	15	55
16	♄	△	8	6
	♂	☌	12	37
	☿	△	15	10
	Ψ	☌	16	59
	♀	☌	18	53
17	♅	✶	17	58
	♃	☌	21	14
	☉	△	23	26
18	♄	□	12	52
	♂	☍	19	18
	Ψ	☍	21	14
	☿	□	21	15
19	☿	☍	3	19
	♀	☌	21	44
20	♃	☍	1	23
	☉	□	6	48
	♄	✶	16	37
21	Ψ	△	0	31
	☌	△	0	57
	☿	✶	3	44
	♀	△	10	35
22	♅	☌	0	46
	☉	✶	4	47
	♄	✶	13	14
23	Ψ	□	19	46
	♂	□	3	18
	☿	☌	5	59
	♀	□	10	33
24	♅	☌	17	12
	♃	☌	3	25

Date.	Aspect		Time. H.	M.
	♃	□	7	45
	☉	☌	19	29
	♄	☍	22	47
25	Ψ	✶	6	0
	♂	✶	10	58
	☿	☍	19	52
26	♀	✶	0	6
	♅	✶	6	27
	♃	✶	11	34
27	☉	☍	2	36
	♄	☌	2	40
	Ψ	☌	9	47
	♂	☌	17	25
28	☿	☌	5	12
	♀	☌	6	47
	♅	□	11	11
	♃	☌	17	7
29	Ψ	☍	3	56
	♄	✶	8	48
	☉	✶	12	36
30	♂	☌	2	43
	♅	△	18	50
	☿	✶	20	55
	♀	☍	21	5
31	♃	☍	1	53
	♄	□	18	16

September.

Date.	Aspect		Time. H.	M.
1	Ψ	☌	1	29
	☉	✶	2	39
	♂	☌	14	8
2	♅	☍	5	51
	♃	☌	13	39
	☿	☌	14	3
	☌	□	18	6
3	♄	△	6	45
	Ψ	✶	13	52
	☉	□	20	18
4	♂	✶	8	18
	♅	☍	16	49
5	♃	✶	3	54
	☿	✶	8	6
	♀	△	19	7
	♄	☍	20	8
	Ψ	□	2	44
6	☉	△	14	11

Date.	Aspect		Time. H.	M.
	♂	□	23	58
	♅	☍	6	50
7	♃	□	16	23
	☿	✶	0	42
8	♄	☌	7	34
	Ψ	△	13	27
	☌	☍	16	40
9	☉	☍	4	52
	♂	△	12	29
	♅	△	15	58
10	♃	△	1	34
	♀	△	12	58
	Ψ	☍	15	36
	☿	☌	20	53
11	☌	☌	8	54
	☉	☌	15	28
	♂	☍	21	12
	♅	□	21	50
12	♃	☍	7	44
	♀	△	19	51
	♄	△	20	32
13	Ψ	☌	1	27
	☌	☍	21	3
	☉	☍	23	7
14	♅	✶	1	28
	♂	☌	3	26
	♃	☌	11	51
15	♄	□	0	14
	♀	☍	4	38
	Ψ	☍	4	41
16	♅	☍	4	17
	☉	△	5	37
	☌	△	7	29
	♂	☍	8	36
	♃	☍	15	15
17	♄	✶	3	16
	Ψ	△	7	26
	♀	☍	10	33
18	♅	☌	7	9
	☉	□	12	16
	♂	△	15	59
	☿	□	17	55
	♃	△	18	55
19	♄	△	6	39
	Ψ	□	10	39
	♀	△	17	5
20	♅	☍	10	31
	☉	✶	19	19
	♂	□	20	1

Date.	Aspect		Time. H.	M.
	♃	□	23	8
21	☿	✶	4	58
	♄	☌	10	38
	Ψ	☍	14	30
	☌	□	0	20
22	♅	✶	14	40
23	♂	✶	4	16
	☉	☌	4	36
	♃	✶	4	39
	♄	☌	15	41
	☿	☌	16	51
	Ψ	☌	19	27
24	♀	✶	8	59
	♅	□	20	12
25	♃	☌	11	8
	♂	☌	11	56
	☉	☍	14	17
	♄	✶	22	34
26	Ψ	☍	2	13
	☿	☍	8	10
	☌	☌	20	2
27	♅	△	3	59
	♃	☍	20	36
	♂	☍	22	44
28	☉	☌	3	40
	♄	□	8	8
	Ψ	☌	11	44
29	☿	☌	2	17
	♅	☍	2	34
	♀	☍	10	14
30	♃	☌	9	4
	♂	☌	14	55
	♄	△	20	21
	☉	✶	20	55
	Ψ	✶	23	52

October.

Date.	Aspect		Time. H.	M.
2	☿	✶	0	45
	♅	☍	3	15
	♃	✶	23	4
3	♂	✶	7	36
	♄	☍	9	44
	Ψ	□	12	59
	☉	□	15	21
4	♅	☍	15	41
	☿	✶	19	6
	☌	□	22	20
5	♃	□	11	56

Date.	Aspect		Time. H.	M.
	♄	☌	21	26
	♂	□	22	28
6	☉	△	7	25
	Ψ	△	10	28
7	♅	△	1	26
	♀	□	7	39
	☿	△	15	25
	♃	△	21	13
8	♄	☍	5	35
	Ψ	☍	8	5
	♂	△	9	13
	☉	☍	18	52
9	♅	□	7	17
	♀	△	15	39
10	☿	☍	2	41
	♃	☍	2	42
	♄	△	10	3
	Ψ	☌	12	15
	☌	☍	15	51
11	☉	✶	2	7
	♅	☍	6	8
12	♃	☌	5	34
	☿	☌	10	22
	♄	□	12	9
	♂	☍	14	12
	☌	☌	19	59
13	♅	☍	7	14
	♀	☌	11	29
	☉	☌	23	11
14	♃	☍	6	44
	♄	✶	13	39
	Ψ	△	15	37
	☌	☍	17	4
	♂	☍	23	48
15	☉	△	12	24
	♅	☌	12	57
16	♀	☍	1	46
	♃	△	10	15
	♄	□	16	31
	Ψ	△	18	7
17	☿	△	0	55
	♂	☌	4	50
	♅	△	15	40
	☉	□	18	58
18	♀	△	7	12
	♃	□	14	31
	♄	☌	19	51
	Ψ	✶	21	46

Date.	Aspect		Time. H.	M.
19	☿	□	10	35
	♂	□	11	46
	♅	✶	20	4
20	☉	✶	3	48
	♀	□	13	32
	♃	✶	20	44
21	♄	☌	1	37
	Ψ	☌	3	31
	♂	✶	21	2
	☿	✶	22	44
22	♅	□	2	24
	☉	☌	15	3
	♀	✶	21	40
23	♃	☍	5	2
	♄	✶	9	24
	Ψ	☌	11	13
24	♂	☌	8	31
	♅	△	10	50
	☉	☌	13	29
25	♀	☌	5	4
	☌	☌	7	44
	♃	☍	14	40
	♄	□	19	22
	Ψ	☌	21	13
26	♅	☍	21	28
	☉	☌	22	51
27	☿	☌	7	0
	♀	☌	19	36
	☌	☌	21	54
28	♃	☌	4	35
	♄	△	7	32
	✶	✶	9	21
29	♅	☌	9	56
	♂	☌	15	22
30	☿	☌	2	11
	♀	☍	8	18
	☉	✶	16	33
	♄	✶	18	46
	Ψ	☍	20	41
31	♃	□	22	34
	♅	☍	22	41

November.

Date.	Aspect		Time. H.	M.
1	♂	✶	8	5
	♀	☌	20	13
	☿	✶	20	18

Date.	Aspect		Time. H.	M.
2	♃	□	7	56
	♄	☍	8	57
	☌	△	10	6
3	Ψ	△	11	5
	♅	△	9	28
4	♂	□	22	2
	☿	✶	4	54
	♃	□	10	13
5	♄	△	17	52
	☿	△	17	56
	Ψ	△	19	39
	☉	☍	23	34
6	♅	□	16	28
	♂	△	7	6
	♀	□	9	28
	☿	△	18	4
	♄	△	22	50
7	♃	☍	23	28
	Ψ	☍	0	23
	☉	☍	7	55
8	♅	✶	19	38
	♀	△	10	21
	♂	△	12	7
9	☿	☌	21	27
	♄	□	0	30
	♃	☍	1	46
10	Ψ	☍	2	1
	☉	☍	12	38
	♅	☍	20	16
	♀	☍	9	15
11	♂	☌	14	50
	☿	☌	22	24
	♄	△	0	38
	Ψ	△	2	22
	♃	☍	2	33
	☉	☍	16	8
12	♅	☍	21	49
	♀	☍	7	49
	♂	☍	17	34
	☿	☍	22	24
13	♄	□	1	8
	Ψ	△	2	47
	♃	☍	3	50
	☉	☍	20	39
	♅	☍	22	49
14	♀	☌	7	25
	☿	△	22	13
	♂	△	22	37
15	♄	☌	3	30

Date.	Aspect		Time. H.	M
	Ψ	✶	5	17
	♃	□	7	3
16	♅	✶	0	23
	☉	□	4	6
	♀	□	9	10
17	☿	□	1	39
	♂	□	6	3
	♄	☌	8	36
	Ψ	☌	10	33
	♃	☌	13	13
18	♅	□	6	27
	♀	✶	12	52
	☉	✶	15	11
19	☿	✶	4	21
	♄	✶	16	36
	♂	✶	17	18
	Ψ	☌	18	44
	♃	☌	22	20
20	♅	△	15	15
	☌	☌	19	30
21	♀	☌	5	42
	☿	☌	10	21
22	♄	□	3	1
	♃	☌	5	22
	♂	☌	7	30
	Ψ	☌	10	5
23	♃	☍	2	18
	♅	☍	3	45
	♀	☌	13	15
	☉	☌	22	53
24	♄	△	15	9
	Ψ	✶	17	42
	☌	✶	23	29
	♂	☌	23	43
25	♅	☌	14	43
	☿	☌	14	48
	♄	☌	21	47
26	♃	☍	17	26
27	♂	☍	4	12
	☿	☍	6	54
	♀	✶	13	45
	☉	✶	16	53
	♄	✶	1	13
	Ψ	✶	1	32
	☌	☍	3	36
	♅	✶	11	49
29	♃	☍	16	33
	♂	△	19	26
30	☿	□	2	59

Date.	Aspect		Time. H.	M.
	♂	✱	8	51
	♀	□	10	53
	♅	△	15	6
	☿	□	16	52
December.				
2	♄	☍	2	37
	☉	□	3	13
	♆	☍	5	32
	♃	△	13	29
	♀	△	19	24
	♂	□	21	33
	♅	□	23	49
3	☿	△	2	4
4	♄	△	8	58
	♆	□	11	54
	☉	△	13	50
	♃	☍	19	57
5	♅	✱	4	34
	♂	△	5	35
	☿	☍	8	34
6	♄	□	11	33
	♆	☍	14	27
	☉	☍	20	3
-	♃	☌	22	42
	♄	☌	22	42
7	♀	☌	1	23
	♅	☍	5	58
	♂	☍	10	30
	☿	☌	12	25
8	♄	✱	11	37
	♆	△	14	32
	☉	☌	22	28
	♃	☍	23	9
9	♀	△	1	3
	♅	♂	5	26
	♂	☌	11	40
	☿	☍	14	58
10	♄	☍	11	45
	♆	□	13	49
	♃	△	23	6
11	☉	☍	2	7
	♅	☍	4	32
	♀	△	11	59
	♂	☍	13	56
	☿	△	18	45
12	♄	♂	11	12
	♆	✱	14	40
13	♀	□	2	10
	♅	✱	6	6
	♃	□	6	9
	☉	△	7	15
	♂	△	18	41
14	☿	□	1	30
	♄	☍	14	20
	♆	☍	18	17
15	☉	□	16	30
	♃	✱	5	8
	♀	✱	7	40
	♅	□	10	30
16	♂	□	3	36
	☿	✱	13	29
	♄	✱	21	13
17	♆	♂	1	37
	♃	☍	3	10
	♀	☍	17	10
	♅	△	20	45
18	☉	✱	6	22
	♂	✱	16	49
19	☿	☍	7	0
	♄	□	7	23
	♆	☍	12	22
20	♃	♂	3	20
	♅	☍	5	58
	♀	♂	6	24
	☉	☍	23	46
21	♂	☍	9	2
	♄	△	19	43
22	♆	✱	0	59
	☿	♂	3	35
	♃	☍	17	11
	♅	☌	18	38
	♀	☍	21	46
23	☉	♂	18	36
24	♄	☍	8	26
	♂	♂	13	6
	♆	□	14	4
25	☿	☍	1	17
	♃	✱	7	5
	♅	☍	7	17
	♀	✱	13	17
26	☉	☍	12	48
	♂	☍	18	48
	♄	☌	20	24
27	♆	△	2	23
	♅	△	18	58
	♃	□	19	51
	☿	✱	21	20
28	♀	□	1	11
29	☉	✱	5	0
	♄	☍	6	48
	♂	✱	9	20
	♆	☍	12	53
30	♅	□	4	30
	♃	△	6	25
	☿	□	14	35
	♀	△	16	32
31	♄	△	14	35
	☉	□	17	49
	♂	□	20	21
	♆	☌	20	37

Note.—The position of ☿'s and ♂'s ascending node on any day during one century (1890 to 1990 A. D.) can be found very accurately from this table. The figures under "difference" column indicate the change in ☊'s longitude in 50 years. This is positive for years in advance of and negative for years previous to 1940. (For details see EXPLANATIONS)

Sun's long.	Mercury ☊	Diff.	Mars. ☊	Diff.	Sun's long.	Mercury ☊	Diff.	Mars. ☊	Diff.
°	° ′	′	° ′	′	°	° ′	′	° ′	′
♈ 0	10 ♈ 52	5	29♈ 36	17	10	11 ♉ 49	7	15♉ 25	15
1	11 43	,,	59	,,	11	12 35	,,	49	,,
2	12 27	,,	0♉ 22	18	12	13 20	,,	16 14	,,
3	13 15	,,	45	,,	13	14 6	,,	38	,,
4	14 2	,,	1 8	19	14	14 52	,,	17 2	14
5	14 49	,,	31	,,	15	15 37	,,	27	,,
6	15 36	,,	54	20	16	16 23	8	51	,,
7	16 23	,,	2 20	19	17	17 9	,,	18 16	,,
8	17 11	,,	38	,,	18	17 55	,,	40	,,
9	17 58	,,	3 4	18	19	18 40	,,	19 4	,,
10	18 44	6	28	17	20	19 26	9	29	,,
11	19 31	,,	51	,,	21	20 12	,,	53	,,
12	20 18	,,	4 14	,,	22	20 58	,,	20 18	,,
13	21 4	,,	38	,,	23	21 43	,,	42	,,
14	21 51	,,	5 1	,,	24	22 30	9	21 7	,,
15	22 38	,,	25	,,	25	23 15	,,	31	,,
16	23 24	,,	49	,,	26	24 1	,,	55	,,
17	24 10	,,	6 12	,,	27	24 46	,,	22 20	,,
18	24 57	,,	36	,,	28	25 33	,,	44	,,
19	25 43	,,	59	,,	29	26 19	,,	23 9	13
20	26 29	,,	7 24	,,	♊ 0	27 5	10	33	,,
21	27 15	,,	47	,,	1	27 51	,,	57	,,
22	28 2	,,	8 11	,,	2	28 37	,,	24 22	,,
23	28 48	,,	35	16	3	29 22	,,	46	,,
24	29 34	,,	59	,,	4	0 ♋ 9	,,	25 11	,,
25	0 ♉ 20	,,	9 23	,,	5	0 55	,,	35	,,
26	1 6	,,	47	,,	6	1 41	,,	59	,,
27	1 52	,,	10 11	,,	7	2 27	,,	26 24	,,
28	2 37	,,	35	,,	8	3 13	,,	48	,,
29	3 24	,,	59	,,	9	3 59	,,	27 13	,,
♉ 0	4 10	7	11 23	,,	10	4 46	,,	37	,,
1	4 56	,,	47	,,	11	5 31	,,	28 1	,,
2	5 42	,,	12 11	,,	12	6 19	,,	26	12
3	6 27	,,	35	,,	13	7 5	,,	50	,,
4	7 13	,,	13 0	15	14	7 51	,,	29 14	,,
5	7 59	,,	24	,,	15	8 38	,,	39	,,
6	8 45	,,	48	,,	16	9 24	,,	0♋ 3	,,
7	9 31	,,	14 12	,,	17	10 11	,,	27	,,
8	10 17	,,	37	,,	18	10 57	,,	51	,,
9	11 3	,,	15 0	,,	19	11 44	,,	1 15	,,

46 Geocentric long of ascending nodes of ☿ and ♂ in 1940.—*Contd.*

Sun's long.	Mercury ☊	Mercury Diff.	Mars ☊	Mars Diff.	Sun's long.	Mercury ☊	Mercury Diff.	Mars ☊	Mars Diff.
°	° ′	′	° ′	′	°	° ′	′	° ′	′
♊ 20	12 ♊ 31	10	1 ♊ 39	12	♌ 11	24 ♋ 27	9	20 ♊ 59	8
21	13 18	,,	2 3	,,	12	25 21	,,	21 19	,,
22	14 5	,,	27	,,	13	26 14	,,	39	,,
23	14 52	,,	52	,,	14	27 8	,,	59	,,
24	15 39	,,	3 16	,,	15	28 2	,,	22 18	,,
25	16 26	,,	40	,,	16	28 57	,,	39	,,
26	17 13	,,	4 4	11	17	29 50	,,	58	,,
27	18 0	,,	28	,,	18	0 ♌ 44	,,	23 17	,,
28	18 48	,,	4 51	,,	19	1 39	,,	36	,,
29	19 35	,,	5 15	,,	20	2 34	,,	55	,,
♋ 0	20 22	11	40	,,	21	3 30	,,	24 14	,,
1	21 10	,,	6 3	,,	22	4 25	,,	33	,,
2	21 58	,,	27	,,	23	5 21	,,	51	,,
3	22 45	,,	50	,,	24	6 17	,,	25 9	,,
4	23 33	,,	7 14	,,	25	7 13	,,	27	7
5	24 21	,,	38	,,	26	8 8	,,	45	,,
6	25 9	,,	8 1	,,	27	9 5	,,	26 2	,,
7	25 57	,,	25	,,	28	10 1	,,	19	,,
8	26 45	,,	48	,,	29	10 59	,,	16	,,
9	27 33	,,	9 12	,,	♍ 0	11 57	,,	53	,,
10	28 22	10	35	,,	1	12 56	,,	27 3	,,
11	29 10	,,	58	10	2	13 55	,,	25	,,
12	29 59	,,	10 21	,,	3	14 54	,,	41	,,
13	0 ♋ 47	,,	45	,,	4	15 53	8	56	,,
14	1 36	,,	11 8	,,	5	16 52	,,	28 11	,,
15	2 25	,,	31	,,	6	17 52	7	28 26	,,
16	3 14	,,	54	,,	7	18 52	,,	41	,,
17	4 3	,,	12 17	,,	8	19 52	6	55	,,
18	4 53	,,	39	,,	9	20 53	,,	29 9	,,
19	5 43	,,	13 2	,,	10	21 54	5	22	,,
20	6 32	,,	26	,,	11	22 55	,,	35	,,
21	7 21	,,	49	,,	12	23 57	,,	29 48	,,
22	8 11	,,	14 10	,,	13	24 59	,,	0 ♋ 0	,,
23	9 1	,,	32	,,	14	26 3	,,	12	,,
24	9 51	,,	55	,,	15	27 5	,,	23	6
25	10 41	9	15 17	9	16	28 8	,,	33	,,
26	11 32	,,	39	,,	17	29 12	,,	45	,,
27	12 22	,,	16 1	,,	18	0 ♍ 16	,,	53	,,
28	13 13	,,	23	,,	19	1 20	,,	1 3	,,
29	14 4	,,	45	,,	20	2 25	,,	11	,,
♌ 0	14 55	,,	17 7	,,	21	3 30	,,	19	,,
1	15 46	,,	29	,,	22	4 36	,,	27	,,
2	16 37	,,	51	,,	23	5 43	4	34	7
3	17 29	,,	18 12	,,	24	6 50	,,	40	,,
4	18 21	,,	32	,,	25	7 57	,,	45	,,
5	19 12	,,	54	,,	26	9 4	3	50	,,
6	20 4	,,	19 15	,,	27	10 12	,,	54	,,
7	0 57	,,	36	,,	28	11 21	2	57	,,
8	21 49	,,	57	,,	29	12 29	,,	2 0	,,
9	22 42	,,	20 18	,,	♎ 0	13 39	1	1	,,
10	23 34	,,	38	,,	1	14 48	,,	2	,,

Geocentric long. of ascending nodes of ☿ and ♂ in 1940.—*Contd.* 47

Sun's long.	Mercury ☊	Mercury Diff.	Mars ☊	Mars Diff.	Sun's long.	Mercury ☊	Mercury Diff.	Mars ☊	Mars Diff.
°	° ′	′	° ′	′	°	° ′	′	° ′	′
♎ 2	16 ♍ 0	1	2 R 1	7	♏ 23	25 ♏ 30	16	11 ♉ 18	78
3	17 11	,,	0	,,	24	26 57	,,	9 21	80
4	18 22	,,	1 58	,,	25	28 25	,,	7 27	,,
5	19 34	,,	54	8	26	29 52	,,	5 36	,,
6	20 46	,,	49	,,	27	1 ♐ 19	,,	3 48	,,
7	22 0	2	43	,,	28	2 46	,,	2 5	79
8	23 13	,,	36	,,	29	4 12	,,	0 24	,,
9	24 26	,,	28	,,	♐ 0	5 39	17	28 ♈ 48	78
10	25 41	3	17	9	1	7 5	,,	27 17	,,
11	26 57	,,	6	,,	2	8 32	,,	25 49	77
12	28 11	,,	0 52	,,	3	9 57	,,	24 26	76
13	29 27	4	37	10	4	11 24	,,	23 7	75
14	0 ♎ 44	,,	21	,,	5	12 47	,,	21 52	74
15	2 0	5	0 ♍ 3	11	6	14 12	,,	20 42	73
16	3 18	,,	29 ♊ 43	12	7	15 36	,,	19 55	71
17	4 36	,,	21	,,	8	16 59	,,	18 33	70
18	5 54	6	28 56	13	9	18 22	,,	17 34	69
19	7 13	,,	30	,,	10	19 46	,,	16 39	68
20	8 33	7	1	14	11	21 8	,,	15 47	66
21	9 52	,,	27 29	15	12	22 30	,,	14 59	65
22	11 13	,,	26 55	16	13	23 52	,,	14	64
23	12 34	,,	18	17	14	25 15	18	13 32	62
24	13 57	8	25 39	18	15	26 34	,,	12 53	61
25	15 17	,,	24 56	19	16	27 54	17	18	60
26	16 39	9	11	20	17	29 14	,,	11 44	58
27	18 2	,,	23 21	22	18	0 ♑ 35	,,	13	57
28	19 25	10	22 29	23	19	1 52	,,	10 45	56
29	20 49	11	21 33	24	20	3 10	16	19	55
♏ 0	22 15	12	20 33	26	21	4 29	14	9 56	54
1	23 37	,,	19 30	28	22	5 45	,,	33	53
2	25 1	,,	18 21	29	23	7 2	,,	13	52
3	26 27	,,	17 9	31	24	8 18	,,	8 55	51
4	27 52	,,	15 53	34	25	9 34	,,	39	50
5	29 17	13	14 33	36	26	10 49	,,	25	49
6	0 ♏ 43	,,	13 8	38	27	12 4	,,	11	48
7	2 10	,,	11 39	41	28	13 18	,,	0	47
8	3 36	,,	10 6	43	29	14 31	,,	7 50	46
9	5 3	,,	8 29	46	♑ 0	15 44	13	42	45
10	6 29	14	6 48	49	1	16 57	,,	34	44
11	7 57	,,	5 2	52	2	18 9	,,	28	44
12	9 24	,,	3 13	54	3	19 21	,,	23	43
13	10 52	,,	1 21	57	4	20 32	,,	19	43
14	12 19	,,	29 ♉ 29	59	5	21 42	,,	16	42
15	13 47	15	27 29	63	6	22 52	12	15	41
16	15 15	,,	25 29	65	7	24 2	,,	D 15	40
17	16 43	,,	23 27	68	8	25 11	,,	15	40
18	18 11	,,	21 25	70	9	26 19	,,	16	39
19	19 39	,,	19 22	72	♒ 10	27 27	11	19	38
20	21 6	16	17 20	74	11	28 35	,,	21	37
21	22 34	,,	15 17	76	12	29 42	,,	24	37
22	24 2	,,	13 18	77	13	0 ♓ 49	,,	29	36

Geocentric long. of ascending nodes of ☿ and ♂ in 1940.—*concld.*

Sun's long.	Mercury ☊	Diff.	Mars. ☊	Diff.	Sun's long.	Mercury ☊	Diff.	Mars. ☊	Diff.
°	° ′	′	° ′	′	°	° ′	°	° ′	′
♑ 14	1 ♒ 55	11	7♈ 34	36	♒ 22	9 ♓ 13	4	16♈ 12	94
15	3 1	,,	7 40	35	23	10 6	,,	31	,,
16	4 7	10	46	35	24	10 59	3	50	,,
17	5 11	,,	53	34	25	11 52	,,	17 9	23
18	6 15	,,	8 0	,,	26	12 44	2	28	,,
19	7 19	,,	9	,,	27	13 37	1	17 48	,,
20	8 23	9	18	33	28	14 29	,,	18 8	,,
21	9 26	,,	27	,,	29	15 21	0	28	,,
22	10 29	,,	37	32	♓ 0	16 12	1	47	,,
23	11 31	8	47	,,	1	17 4	,,	19 8	,,
24	12 33	,,	57	,,	2	17 55	,,	28	22
25	13 35	,,	9 9	,,	3	18 46	,,	48	,,
26	14 36	,,	20	31	4	19 37	,,	20 9	,,
27	15 37	7	32	,,	5	20 28	,,	29	,,
28	16 37	,,	45	30	6	21 19	,,	50	,,
29	17 37	,,	58	,,	7	22 9	,,	21 9	,,
♒ 0	18 37	6	10 11	,,	8	22 59	,,	32	,,
1	19 36	,,	24	29	9	23 50	,,	53	21
2	20 35	,,	38	,,	10	24 40	,,	22 14	,,
3	21 34	,,	52	,,	11	25 29	,,	35	,,
4	22 23	,,	1 7	,,	12	26 19	,,	57	,,
5	23 31	,,	22	28	13	27 9	,,	23 18	,,
6	24 28	,,	37	,,	14	27 58	,,	40	20
7	25 26	,,	52	,,	15	28 47	,,	24 1	,,
8	26 23	,,	12 8	,,	16	29 36	2	24 23	,,
♋	27 19	,,	24	27	17	0 ♈ 25	,,	45	,,
10	28 16	5	40	,,	18	1 14	,,	25 7	,,
11	29 12	,,	56	,,	19	2 3	,,	29	,,
12	0 ♓ 8	,,	13 13	,,	20	2 52	3	51	,,
13	1 3	,,	30	26	21	3 40	,,	26 13	,,
14	1 59	,,	47	,,	22	4 29	,,	35	19
15	2 54	,,	14 5	,,	23	5 17	,,	58	,,
16	3 49	,,	14 22	26	24	6 5	,,	27 20	,,
17	4 44	,,	40	25	25	6 54	4	43	,,
18	5 38	,,	58	,,	26	7 42	,,	28 6	18
19	6 32	,,	15 16	,,	27	8 29	,,	28	,,
20	7 26	,,	34	,,	28	9 17	,,	51	,,
21	8 19	,,	53	24	29	10 5	,,	29 13	,,

Table showing the Position of M. C. corresponding to a given sidereal time.

Sid. Time.	M. C.	Sid. Time.	M. C.	Sid. Time.	M. C.	Sid. Time.	M. C.
H. M.	° ′	H. M.	° ′	H. M.	° ′	H. M.	° ′
0 0	0 ♈ 0	6 0	0 ♎ 0	12 0	0 ♑ 0	18 0	0 ♋ 0
15	4 5	15	3 26	15	4 5	15	3 26
30	8 10	30	6 53	30	8 10	30	6 53
45	12 14	45	10 20	45	12 14	45	10 20
1 0	16 17	7 0	13 48	13 0	16 17	19 0	13 48
15	20 18	15	17 18	15	20 18	15	17 18
30	24 18	30	20 48	30	24 18	30	20 48
45	28 16	45	24 20	45	28 16	45	24 20
2 0	2 ♉ 11	8 0	27 54	14 0	2 ♏ 11	20 0	27 54
15	6 4	15	1 ♌ 30	15	6 4	15	1 ♒ 30
30	9 54	30	5 9	30	9 54	30	5 9
45	13 42	45	8 49	45	13 42	45	8 49
3 0	17 28	9 0	12 32	15 0	17 28	21 0	12 32
15	21 11	15	16 17	15	21 11	15	16 17
30	24 51	30	20 5	30	24 51	30	20 5
45	28 29	45	23 56	45	28 29	45	23 56
4 0	2 ♊ 5	10 0	27 49	16 0	2 ♐ 5	22 0	27 49
15	5 39	15	1 ♍ 44	15	5 39	15	1 ♓ 44
30	9 11	30	5 42	30	9 11	30	5 42
45	12 42	45	9 42	45	12 42	45	9 42
5 0	16 12	11 0	13 43	17 0	16 12	23 0	13 53
15	19 39	15	17 46	15	19 39	15	17 46
30	23 7	30	21 50	30	23 7	30	21 50
45	26 33	45	25 55	45	26 33	45	25 55

Table of Ascendants for Latitudes 7° to 20°.

Sid. Time.	7°		8°		9°		10°		11°		12°		13°		14°		15°		16°		17°		18°		19°		20°	
H. M	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
0 0	92	48	93	12	93	34	94	0	94	25	94	50	95	15	95	40	96	5	96	30	96	56	97	22	97	47	98	14
15	96	13	96	37	97	1	97	25	97	50	98	14	98	39	99	3	99	28	99	53	100	18	100	44	101	10	101	36
30	99	39	100	3	100	27	100	50	101	14	101	38	102	2	102	27	102	51	103	15	103	40	104	5	104	31	104	59
45	102	3	103	28	103	52	104	15	104	39	105	3	105	27	105	50	106	15	106	38	107	3	107	27	107	52	108	17
1 0	106	31	106	54	107	16	107	40	108	3	108	26	108	49	109	13	109	36	110	0	110	23	110	47	111	11	111	36
15	109	58	110	20	110	42	111	5	111	28	111	51	112	13	112	36	112	59	113	21	113	45	114	8	114	31	114	54
30	113	24	113	47	114	9	114	31	114	53	115	15	115	37	115	59	116	21	116	43	117	6	117	28	117	51	118	14
45	116	54	117	14	117	36	117	58	118	19	118	40	119	2	119	23	119	45	120	6	120	27	120	49	121	11	121	32
2 0	120	23	120	44	121	4	121	25	121	45	122	7	122	27	122	47	123	9	123	29	123	50	124	11	124	31	124	53
15	123	53	124	14	124	34	124	55	125	14	125	34	125	53	126	13	126	33	126	53	127	13	127	33	127	53	128	13
30	127	26	127	45	128	4	128	24	128	42	129	1	129	24	129	39	129	58	130	17	130	37	130	56	131	15	131	34
45	131	1	131	18	131	37	131	56	132	13	132	31	132	49	133	7	133	25	133	43	134	1	134	20	134	38	134	56
3 0	134	37	134	54	135	12	135	29	135	45	136	2	136	19	136	36	136	53	137	10	137	26	137	43	138	0	138	17
15	138	14	138	31	138	47	139	4	139	19	139	35	139	51	140	6	140	22	140	38	140	54	141	10	141	25	141	41
30	141	53	142	10	142	25	142	40	142	55	143	10	143	25	143	39	143	54	144	8	144	23	144	37	144	52	145	6
45	145	36	145	50	146	4	146	19	146	31	146	45	146	59	147	12	147	27	147	39	147	52	148	5	148	19	148	33
4 0	149	20	149	33	149	45	149	59	150	10	150	22	150	35	150	47	150	59	151	11	151	23	151	35	151	46	151	58
15	153	6	153	17	153	29	153	40	153	50	154	0	154	11	154	22	154	33	154	43	154	55	155	5	155	15	155	26
30	156	54	157	3	157	12	157	22	157	32	157	41	157	51	158	0	158	9	158	19	158	29	158	37	158	46	158	55
45	160	41	160	51	161	2	161	12	161	18	161	27	161	35	161	42	161	50	161	58	162	5	162	13	162	20	162	28
5 0	164	33	164	39	164	45	164	51	164	58	165	4	165	11	165	17	165	23	165	30	165	36	165	42	165	49	165	55
15	168	22	168	28	168	33	168	38	168	43	168	47	168	52	168	57	169	2	169	7	169	11	169	16	169	20	169	25
30	172	16	172	19	172	21	172	24	172	28	172	31	172	35	172	37	172	40	172	44	172	47	172	51	172	54	172	57
45	176	6	176	9	176	11	176	12	176	14	176	15	176	18	176	19	176	20	176	22	176	23	176	24	176	27	176	28
6 0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0

Table of Ascendants for Latitudes 7° to 20°

Sid. Time.	7°		8°		9°		10°		11°		12°		13°		14°		15°		16°		17°		18°		19°		20°	
H. M.	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
6 0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0
15	183	53	183	51	183	49	183	48	183	46	183	45	183	42	183	41	183	40	183	38	183	37	183	36	183	33	183	32
30	187	45	187	41	187	39	187	36	187	32	194	29	187	25	187	23	187	20	187	16	187	13	187	9	187	6	187	3
45	191	36	191	32	191	27	191	22	191	17	191	13	191	8	191	3	190	58	190	53	190	49	190	44	190	40	190	35
7 0	195	27	195	22	195	15	195	9	195	2	194	56	194	49	194	43	194	37	194	30	194	24	194	18	194	11	194	5
15	199	19	199	10	199	2	198	52	198	46	198	37	198	25	198	18	198	14	198	6	198	0	197	51	197	44	197	32
30	203	7	202	57	202	48	202	38	202	28	202	19	202	9	202	0	201	51	201	41	201	32	201	23	201	14	201	5
45	206	55	206	43	206	31	206	20	206	10	205	59	205	49	205	38	205	27	205	17	205	5	204	55	204	45	204	34
8 0	210	40	210	27	210	15	210	1	209	50	209	38	209	25	209	13	209	1	208	49	208	37	208	25	208	14	208	2
15	214	24	214	10	213	56	213	41	213	29	213	15	213	1	212	48	212	33	212	21	212	8	211	55	211	41	211	28
30	218	4	217	50	217	35	217	20	217	5	216	50	216	35	216	21	216	6	215	52	215	37	215	23	215	8	214	54
45	221	46	221	30	221	13	220	56	220	41	220	25	220	9	219	54	219	38	219	22	219	6	218	50	218	35	218	19
9 0	225	22	225	6	224	49	224	31	224	15	223	58	223	41	223	24	223	7	222	50	222	34	222	17	222	0	221	43
15	229	0	228	42	228	23	228	4	227	47	227	29	227	11	226	53	226	35	226	17	225	59	225	40	225	22	225	4
30	232	34	232	15	231	56	231	36	231	18	230	59	230	56	230	21	230	2	229	43	229	23	229	4	228	45	228	26
45	236	6	235	46	235	26	235	5	234	46	234	26	234	7	233	47	233	27	233	7	232	47	232	27	232	7	231	47
10 0	239	37	239	17	238	56	238	35	238	15	237	53	237	33	237	13	236	51	236	31	236	10	235	49	235	29	235	7
15	243	7	242	46	242	24	242	2	241	41	241	20	240	58	240	37	240	15	239	54	239	33	239	11	238	49	238	28
30	246	36	246	13	245	51	245	29	245	7	244	45	244	23	244	1	243	39	243	17	242	54	242	32	242	9	241	46
45	250	2	249	40	249	18	248	55	248	32	248	9	247	47	247	25	247	1	246	39	246	15	245	52	245	29	245	6
11 0	253	29	253	7	252	44	252	20	251	57	251	34	251	11	250	47	250	24	250	0	249	37	249	13	248	49	248	24
15	256	56	256	32	256	8	255	45	255	21	254	57	254	33	254	10	253	45	253	22	252	57	252	33	252	8	251	43
30	260	21	259	57	259	34	259	10	258	24	258	22	257	58	257	35	257	9	256	45	256	20	255	55	255	29	255	3
45	263	47	263	23	262	59	262	35	262	10	261	46	261	21	260	57	260	32	260	7	259	42	259	16	258	50	258	24
12 0	267	13	266	48	266	23	266	0	265	35	265	10	264	45	264	20	263	55	263	30	263	4	262	38	262	13	261	46

Sid. Time.	7°		8°		9°		10°		11°		12°		13°		14°		15°		16°		17°		18°		19°		20°	
H. M.	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
12 0	267	13	266	48	266	23	266	0	265	35	265	10	264	45	264	20	263	55	263	30	263	4	262	38	262	13	261	46
15	270	38	270	14	269	49	269	25	269	0	268	35	268	10	267	44	267	19	266	53	266	27	266	1	265	34	265	8
30	274	4	273	41	273	17	272	51	272	27	272	2	271	36	271	11	270	47	270	21	269	55	269	27	269	0	268	34
45	277	34	277	9	276	44	276	20	275	55	275	30	275	4	274	39	274	13	273	47	273	21	272	54	272	27	271	59
13 0	281	3	280	38	280	14	279	50	279	25	279	0	278	35	278	9	277	43	277	17	276	51	276	24	275	57	275	29
15	284	34	284	10	283	45	283	21	282	56	282	31	282	6	281	41	281	15	280	48	280	22	279	55	279	28	279	0
30	288	8	287	44	287	19	286	55	286	30	286	6	285	41	285	15	284	50	284	24	283	58	283	30	283	3	282	36
45	291	41	291	19	290	55	290	32	290	7	289	43	289	18	288	53	288	27	288	0	287	35	287	8	286	41	286	15
14 0	295	19	294	56	294	33	294	11	293	46	293	22	292	58	292	34	292	8	291	42	291	17	290	50	290	23	289	56
15	299	0	298	38	298	15	297	52	297	28	297	5	296	41	296	16	295	52	295	27	295	2	294	35	294	9	293	41
30	302	43	302	21	301	59	301	37	301	14	300	51	300	28	300	4	299	40	299	15	298	50	298	25	297	59	297	32
45	306	29	306	8	305	46	305	27	305	3	304	41	304	18	303	55	303	32	303	8	302	44	302	19	301	54	301	28
15 0	310	17	309	59	309	38	309	17	308	56	308	35	308	13	307	51	307	28	307	5	306	41	306	17	305	52	305	27
15	314	11	313	52	313	32	313	12	312	52	312	32	312	12	311	51	311	30	311	6	310	45	310	22	309	58	309	34
30	318	7	317	50	317	32	317	12	316	55	316	34	316	15	315	55	315	35	315	14	314	53	314	31	314	9	313	46
45	322	6	321	50	321	32	321	18	320	58	320	41	320	23	320	3	319	45	319	25	319	5	318	45	318	24	318	3
16 0	326	11	325	55	325	39	325	24	325	7	324	51	324	34	324	17	324	0	323	42	323	23	223	5	322	45	322	25
15	330	14	330	2	329	48	329	33	329	20	329	5	328	49	328	34	328	18	328	2	327	46	327	29	327	10	326	52
30	334	25	334	11	334	0	333	47	333	35	333	22	333	9	332	56	332	41	332	28	332	13	331	58	331	42	331	28
45	338	37	338	25	338	15	338	5	337	54	337	42	337	31	337	19	337	8	336	56	336	43	336	30	336	17	336	2
17 0	342	37	342	41	342	33	342	25	342	15	342	6	341	58	341	48	341	38	341	28	341	17	341	7	340	56	340	45
15	347	5	346	58	346	52	346	47	346	39	346	33	346	25	346	18	346	11	346	3	345	55	345	47	345	39	345	31
30	351	22	351	18	351	15	351	11	451	6	351	1	350	56	350	51	350	46	350	41	350	36	350	30	350	25	350	20
45	355	42	355	40	355	38	355	34	355	33	355	31	355	29	355	26	355	23	355	20	355	17	355	15	355	13	355	9
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	0

Sid. Time.	7°		8°		°9		10°		11°		12°		13°		14°		15°		16°		17°		18°		19°		20°	
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	0
15	4	19	4	20	4	23	4	26	4	27	4	29	4	31	4	34	4	37	4	40	4	43	4	45	4	47	4	50
30	8	37	8	42	8	46	8	49	8	54	8	59	9	4	9	9	9	14	9	19	9	24	9	30	9	35	9	40
45	12	56	13	2	13	8	13	13	13	21	13	27	13	35	13	42	13	49	13	57	14	5	14	13	14	21	14	29
19 0	17	14	17	19	17	27	17	35	17	45	17	54	18	2	18	12	18	22	18	32	18	43	18	53	19	4	19	15
15	21	27	21	35	21	45	21	55	22	6	22	18	22	29	22	41	22	52	23	4	23	17	23	30	23	43	23	58
30	25	35	25	48	26	0	26	13	26	25	26	38	26	51	27	4	27	19	27	32	27	47	28	2	28	18	28	32
45	29	46	29	58	30	12	30	27	30	40	30	55	31	11	31	26	31	42	31	58	32	14	32	31	32	50	33	8
20 0	33	51	34	5	34	21	34	36	34	53	35	9	35	26	35	43	36	0	36	18	36	37	36	55	37	15	37	35
15	37	54	38	10	38	27	38	52	39	2	39	19	39	37	39	57	40	15	40	35	40	55	41	15	41	36	41	57
30	41	53	42	10	42	28	42	48	43	5	43	26	43	45	44	5	44	25	44	46	45	7	45	29	45	51	46	14
45	47	48	46	9	46	28	46	48	47	8	47	28	47	48	48	9	48	30	48	54	49	15	49	38	50	2	50	26
21 0	49	42	50	2	50	22	50	43	51	4	51	25	51	47	52	9	52	32	52	55	53	19	53	43	54	8	54	33
15	53	30	53	52	54	14	54	33	54	57	55	19	55	42	56	5	56	28	56	52	57	16	57	41	58	6	58	32
30	57	17	57	39	58	1	58	23	58	46	59	9	59	32	59	56	60	20	60	45	61	10	61	35	62	1	62	28
45	61	0	61	22	61	45	62	8	62	32	62	55	63	19	63	44	64	8	64	33	64	58	65	25	65	51	66	19
22 0	64	41	65	4	65	27	65	49	66	14	66	38	67	2	67	26	67	52	68	18	68	43	69	10	69	37	70	4
15	68	19	68	41	69	5	69	28	69	53	70	17	70	42	71	7	71	33	72	0	72	25	72	52	73	19	73	45
30	71	53	72	17	72	41	73	5	73	30	73	54	74	19	74	45	75	10	75	36	76	2	76	30	76	57	77	24
45	75	27	75	50	76	15	76	39	77	4	77	29	77	54	78	19	78	45	79	12	79	38	80	5	80	32	81	0
23 0	78	58	79	21	79	46	80	10	80	35	81	0	81	25	81	51	82	17	82	43	83	9	83	36	84	3	84	31
15	82	28	82	51	83	16	83	40	84	5	84	30	84	56	85	21	85	47	86	13	86	39	87	6	87	33	88	1
30	85	45	86	19	86	43	87	9	87	33	87	58	88	24	88	49	89	17	89	39	90	5	90	33	91	0	91	26
45	89	21	89	46	90	11	90	35	91	0	91	25	91	50	92	16	92	41	93	7	93	33	93	59	94	26	94	52
24 0	92	48	93	12	93	34	94	0	94	25	94	50	95	15	95	40	96	5	96	30	96	56	97	22	97	47	98	14

Table of Ascendants for Latitudes 21° to 34°.

Sid Time	21°		22°		23°		24°		25°		26°		27°		28°		29°		30°		31°		32°		33°		34°	
H	M.	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
0	0	98	41	99	8	99	35	100	3	100	31	100	59	101	27	101	56	102	34	102	57	103	26	103	57	104	29	105	2
	15	102	2	102	28	102	55	103	22	103	49	104	17	104	45	105	18	105	43	106	12	106	41	107	11	107	42	108	13
	30	105	22	105	48	106	14	106	40	107	7	107	33	108	2	108	29	108	58	109	26	109	54	110	24	110	53	111	23
	45	108	42	109	7	109	32	109	57	110	23	110	49	111	16	111	43	112	11	112	38	113	6	113	34	114	2	114	31
1	0	112	0	112	24	112	49	113	14	113	39	114	5	114	31	114	56	115	22	115	49	116	16	116	43	117	10	117	38
	15	115	18	115	42	116	16	116	30	116	54	117	19	117	44	118	9	118	34	119	0	119	25	119	50	120	18	120	45
	30	118	39	119	0	119	23	119	46	120	10	120	33	120	57	121	21	121	46	122	11	122	35	123	0	123	25	123	51
	45	121	54	122	17	122	38	123	2	123	24	123	47	124	9	124	32	124	56	125	21	125	44	126	8	126	32	126	56
2	0	125	14	125	35	125	57	126	18	126	39	127	1	127	23	127	45	128	8	128	31	128	54	129	17	129	37	130	1
	15	128	31	128	53	129	14	129	34	129	54	130	15	130	36	130	57	131	19	131	40	132	2	132	24	132	45	133	7
	30	131	54	132	13	132	35	132	51	133	10	133	30	133	50	134	9	134	29	134	50	135	11	135	3	135	51	136	12
	45	135	15	135	32	135	50	136	7	136	26	136	44	137	3	137	22	137	41	138	1	138	18	138	37	138	57	139	15
3	0	138	34	138	52	139	9	139	26	139	43	140	0	140	17	140	34	140	51	141	11	141	28	141	45	142	3	142	21
	15	141	57	142	13	142	29	142	45	143	1	143	17	143	33	143	49	144	5	144	23	144	39	144	55	145	12	145	30
	30	145	20	145	35	145	50	146	5	146	19	146	33	146	48	147	3	147	18	147	33	147	49	148	4	148	19	148	34
	45	148	45	148	59	149	12	149	26	149	38	149	51	150	5	150	19	150	33	150	46	150	59	151	13	151	28	151	40
4	0	152	10	152	22	152	32	152	46	152	58	153	10	153	22	153	35	153	47	153	59	154	11	154	24	154	36	154	48
	15	155	36	155	47	155	58	156	8	156	19	156	30	156	40	156	51	157	2	157	13	157	23	157	34	157	45	157	55
	30	159	4	159	13	159	22	159	31	159	40	159	50	159	59	160	8	160	18	160	27	160	36	160	46	160	35	161	4
	45	162	35	162	44	162	50	162	26	163	3	163	10	163	18	163	25	163	33	163	41	163	49	163	57	164	6	164	12
5	0	166	2	166	8	166	14	166	20	166	26	166	32	166	38	166	44	166	50	166	57	167	3	167	9	167	16	167	22
	15	169	30	169	35	169	40	169	44	169	48	169	53	169	58	170	2	170	7	170	13	170	17	170	22	170	26	170	31
	30	173	0	173	3	173	6	173	9	173	12	173	15	173	19	173	21	173	24	173	28	173	31	173	34	173	37	173	40
	45	176	29	176	32	176	33	176	34	176	36	176	38	176	40	176	41	176	43	176	44	176	45	176	47	176	50	176	50
6	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0

Table of Ascendants for Latitudes 21° to 34°.

Sid Time.	21°		22°		23°		24°		25°		26°		27°		28°		29°		30°		31°		32°		33°		34°	
H.	M.	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′	°	′
6	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0	180	0
	15	183	31	183	28	183	27	183	26	183	24	183	22	183	20	183	19	183	17	183	16	183	15	183	13	183	10	183	10
	30	187	0	186	57	186	54	186	51	186	46	186	45	186	41	186	39	186	36	186	32	186	29	186	26	186	23	186	20
	45	190	30	190	25	190	20	190	16	190	12	190	7	190	2	189	58	189	53	189	47	189	43	189	38	189	34	189	29
7	0	193	58	193	52	193	46	193	40	193	34	193	28	193	22	193	16	193	10	193	3	192	57	192	51	192	44	192	38
	15	197	29	197	20	197	14	197	1	196	57	196	50	196	42	196	35	196	27	196	19	196	11	196	3	195	54	195	48
	30	200	56	200	47	200	38	200	29	200	20	200	10	200	1	199	52	199	42	199	33	199	24	199	14	199	5	198	56
	45	204	24	204	13	204	2	203	52	203	41	203	30	203	20	203	9	202	58	202	47	202	37	202	26	202	15	202	5
8	0	207	50	207	38	207	27	207	14	207	2	206	50	206	38	206	25	206	13	206	1	205	49	205	36	205	24	205	12
	15	211	15	211	1	210	48	210	34	210	22	210	9	209	55	209	41	209	27	209	14	209	1	208	47	208	32	208	20
	30	214	40	214	25	214	10	213	55	213	42	213	27	213	12	212	57	212	42	212	27	212	11	211	56	211	41	211	26
	45	218	3	217	47	217	31	217	15	216	59	216	43	216	27	216	11	215	55	215	37	215	21	215	5	214	48	214	30
9	0	221	26	221	8	220	51	220	34	220	17	220	0	219	43	219	26	219	9	218	49	218	32	218	15	217	57	217	39
	15	224	46	224	28	224	10	223	53	223	34	223	16	222	57	222	38	222	19	221	59	221	42	221	23	221	3	220	45
	30	228	4	227	47	227	28	227	9	226	50	226	30	226	10	225	51	225	31	225	10	224	50	224	30	224	9	223	48
	45	231	29	231	7	230	46	230	26	230	6	229	45	229	24	229	3	228	41	228	20	227	58	227	37	227	15	226	53
10	0	234	46	234	25	234	3	233	42	233	21	232	59	232	37	232	15	231	52	231	29	231	6	230	45	230	23	229	59
	15	238	6	237	43	237	21	236	58	236	36	236	13	235	51	235	28	235	4	234	39	234	16	233	53	233	28	233	4
	30	241	22	241	0	240	37	240	14	239	50	239	27	239	3	238	39	238	14	237	49	237	25	237	0	236	35	236	9
	45	244	42	244	18	243	54	243	30	243	6	242	41	242	16	241	51	241	26	241	0	240	35	240	9	239	42	239	15
11	0	248	0	247	36	247	11	246	46	246	21	245	55	245	29	245	4	244	38	244	11	243	44	243	17	242	50	242	22
	15	251	18	250	53	250	28	250	3	249	37	249	11	248	44	248	17	247	49	247	22	246	54	246	26	245	58	245	29
	30	254	38	254	12	253	46	253	2	252	53	252	26	251	58	251	31	251	2	250	34	250	4	249	36	249	7	248	37
	45	257	58	257	32	257	5	256	38	256	11	255	43	255	15	254	46	254	17	253	48	253	19	252	49	252	18	251	47
12	0	261	19	260	52	260	25	259	57	259	29	259	1	258	31	258	4	257	34	257	3	256	34	256	3	255	31	254	58

Sid. Time.	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	31°	32°	33°	34°
H. M.	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
12 0	261 19	260 52	260 25	259 57	259 29	259 0	258 31	258 4	257 34	257 3	256 34	256 3	255 31	254 58
15	264 41	264 14	263 45	263 18	262 49	262 20	261 51	261 22	260 51	260 19	259 49	259 18	258 45	258 12
30	268 6	267 38	267 8	266 41	266 12	265 42	265 12	264 42	264 11	263 39	263 8	262 36	262 2	261 29
45	271 32	271 4	270 35	270 6	269 38	269 7	268 37	268 6	267 34	267 1	266 29	265 56	265 22	264 49
13 0	275 1	274 33	274 4	273 34	273 6	272 34	272 4	271 33	271 0	270 27	269 54	269 21	268 46	268 11
15	278 32	278 3	277 35	277 5	276 36	276 4	275 34	275 2	274 29	273 55	273 22	272 48	272 12	271 36
30	282 7	281 38	281 9	280 39	280 10	279 38	279 8	278 35	278 2	277 28	276 54	276 19	275 43	275 8
45	285 46	285 17	284 48	284 18	283 49	283 17	282 47	282 13	281 40	281 5	280 32	279 57	279 20	278 44
14 0	289 28	288 59	288 30	288 0	287 31	286 59	286 29	285 55	285 22	284 48	284 14	283 36	283 1	282 25
15	293 14	292 46	292 17	291 48	291 18	290 46	290 16	289 43	289 10	288 35	288 1	287 25	286 49	286 13
30	297 5	296 38	296 9	295 40	295 11	294 11	294 11	293 38	293 5	292 30	291 57	291 20	290 43	290 6
45	301 2	300 34	300 7	299 38	299 9	298 39	298 10	297 38	297 5	296 31	295 57	295 22	294 45	294 7
15 0	305 2	304 36	304 8	303 41	303 13	302 44	302 14	301 42	301 10	300 36	300 3	299 28	298 52	298 15
15	309 9	308 44	308 18	307 51	307 24	306 55	306 26	305 56	305 24	304 52	304 20	303 46	303 10	302 34
30	313 22	312 59	312 54	312 8	311 42	311 15	310 47	310 18	309 48	309 17	308 45	308 13	307 38	307 5
45	317 41	317 18	316 56	316 31	316 6	315 40	315 14	314 47	314 18	313 48	313 19	312 48	312 15	311 42
16 0	322 5	321 43	321 21	320 59	320 36	320 12	319 48	319 23	318 55	318 27	317 59	317 30	316 59	316 29
15	326 33	326 15	325 56	325 35	325 14	324 52	324 30	324 6	323 42	323 16	322 51	322 24	321 55	321 25
30	331 9	330 53	330 35	330 16	329 57	329 38	329 18	328 57	328 35	328 12	327 50	327 25	326 59	326 32
45	335 49	335 35	335 19	335 3	334 48	334 31	334 14	333 55	333 36	333 17	332 57	333 36	332 13	331 52
17 0	340 34	340 22	340 9	339 56	339 43	339 30	339 16	339 0	338 44	638 29	338 12	337 58	337 35	337 16
15	345 22	345 13	345 3	344 54	344 44	344 33	344 22	344 11	343 59	343 46	343 33	343 19	343 4	342 51
30	350 14	350 7	350 1	349 54	349 47	349 41	349 34	349 25	349 17	349 8	348 59	348 49	348 40	348 29
45	355 7	355 4	354 59	354 56	354 53	354 49	354 46	354 42	354 38	354 33	354 29	354 24	354 19	354 14
18 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0

Sid. Time.	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	31°	32°	33°	34°
H. M.	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
18 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 0	360 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	19 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 1	39 24	39 48	40 12	40 37	41 5	41 33	42 1	42 30	43 1	43 31
15	42 19	42 42	43 4	43 29	43 54	44 20	44 46	45 13	45 42	46 12	46 41	47 12	47 45	48 18
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 50	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 0	72 29	73 1	73 31	74 5	74 38	75 12	75 46	76 24	76 59	77 35
15	74 14	74 43	75 12	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 26	87 56	88 27	89 0	89 33	90 6	90 39	91 14	91 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 4	96 52	97 24	97 58	98 31
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 8

Tables of Houses for Bombay, Lat. 18° N. 57′

Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′	♉	♊	° ′	♌	♌	H. M.	° ′	♉	♊	♋	° ′	♌	♍	♎	H. M.	° ′	♊	♋	♌	♍	♎	♏
0 0	0 ♈ 0	4	7	7 ♎ 47	2	29																	
						♍	2 0	2 11	4	5	4 ♌ 31	0	0	4 0	2 5	3	2	1 46	0	1
5	1 22	5	8	8 55	3	0	5	3 29	5	7	5 36	2	1	5	3 17	4	3	2 56	1	2
10	2 43	7	10	10 3	5	2	10	4 47	7	8	6 47	3	3	10	4 28	5	4	4 5	2	3
15	4 5	8	11	11 10	6	3	15	6 4	8	9	7 53	4	4	15	5 39	6	6	5 15	4	5
20	5 27	9	12	12 18	7	5	20	7 21	9	10	9 1	5	5	20	6 50	7	7	6 26	5	6
25	6 48	11	13	13 24	8	6	25	8 38	11	11	10 8	7	7	25	8 1	8	8	7 36	6	7
30	8 10	12	14	14 31	9	7	30	9 54	12	12	11 15	8	8	30	9 11	9	9	8 46	7	8
35	9 31	13	16	15 38	11	8	35	11 11	13	13	12 22	9	9	35	10 22	10	10	9 56	8	9
40	10 53	14	17	16 45	12	9	40	12 27	14	14	13 29	11	10	40	11 32	12	12	11 5	10	11
45	12 14	15	18	17 52	13	10	45	13 42	15	15	14 38	12	12	45	12 42	13	13	12 20	11	12
50	13 35	17	19	18 58	14	12	50	14 57	16	16	15 45	13	13	50	13 52	14	14	13 27	12	13
55	14 56	18	20	20 5	15	13	55	16 13	17	17	16 53	14	14	55	15 2	15	15	14 38	14	14
1 0	16 17	19	21	21 11	16	14	3 0	17 28	18	18	18 0	16	15	5 0	16 12	16	16	15 49	15	15
5	17 37	21	23	22 18	18	16	5	18 42	20	19	19 9	17	17	5	17 21	17	17	16 59	16	16
10	18 58	22	24	23 24	19	17	10	19 57	21	21	20 17	18	18	10	18 30	19	19	18 11	18	17
15	20 18	23	25	24 31	20	18	15	21 11	22	22	21 25	19	19	15	19 39	20	20	19 20	19	19
20	21 38	25	26	25 38	21	20	20	22 25	23	24	22 34	21	20	20	20 49	21	21	20 31	20	21
25	22 58	26	27	26 45	22	21	25	23 38	24	25	23 42	22	22	25	21 58	22	22	21 43	21	22
30	24 18	27	28	27 52	23	22	30	24 51	26	26	24 52	23	23	30	23 7	23	23	22 54	22	23
			♋				35	26 4	27	27	26 0	24	24	35	24 16	24	24	24 4	23	24
35	25 38	29	0	28 57	25	24	40	27 17	28	28	27 9	25	25	40	25 25	25	25	25 15	24	26
		♊		♌			45	28 29	29	29	28 19	27	26	45	26 33	27	27	26 27	26	27
40	26 57	0	1	0 5	26	25			♋	♌				50	27 42	28	28	27 38	27	28
45	28 16	1	2	1 11	27	26	50	29 42	1	0	29 ♍ 28	28	29				♍			
50	29 34	♌	3	2 17	28	28							♎	55	28 51	29	0	28 49	28	29
					♍		55	0 ♊ 54	2	1	0 37	29	0							
55	0 ♉ 53	3	4	3 24	29	29														

Tables of Houses for Bombay, Lat. 18° N. 57′

Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ♎ ′	♌	♍	° ♎ ′	♎	♏	H. M.	° ♎ ′	♌	♎	° ♎ ′	♏	♐	H. M.	° ♌ ′	♎	♏	° ♏ ′	♐	♑
6 0	0 0	0	1	0 0	29	0	8 0	27 54	29	0	28 14	28	27	10 0	27 49	0	0	25 29	25	26
					♏				♍					5	29 7	1	1	26 36	26	27
5	1 9	1	2	1 11	0	1	5	29 6	0	1	29 23	29	28	10	0 ♍ 26	2	2	27 43	27	28
10	2 18	2	3	2 22	2	2		♌			♏	♐		15	1 44	4	3	28 49	28	29
15	3 26	3	4	3 33	3	3	10	0 18	1	2	0 32	0	29						♑	♒
20	4 35	5	5	4 45	5	4						♑		20	3 3	5	4	29 55	0	0
25	5 44	6	7	5 56	6	5	15	1 30	3	3	1 41	1	0	25	4 23	6	6	1 ♐ 3	1	2
30	6 53	7	8	7 6	7	6	20	2 43	5	5	2 51	2	2	30	5 42	8	7	2 9	2	3
35	8 2	8	9	8 17	8	8	25	3 56	6	6	4 0	3	3	35	7 2	9	8	3 15	3	4
40	9 11	9	10	9 29	9	9	30	5 9	7	7	5 8	5	4	40	8 22	10	9	4 22	4	5
45	10 20	11	11	10 40	10	10	35	6 22	8	9	6 18	6	5	45	9 42	12	10	5 29	5	7
50	11 30	12	13	11 49	12	11	40	7 35	10	10	7 26	7	7	50	11 2	13	11	6 36	6	8
55	12 39	14	14	13 1	13	13	45	8 49	11	11	8 35	8	8	55	12 22	14	13	7 42	7	10
7 0	13 48	15	15	14 11	14	14	50	10 3	12	12	9 43	9	9	11 0	13 43	16	14	8 49	9	11
5	14 58	16	16	15 22	15	15	55	11 17	13	13	10 51	10	10	5	15 4	17	15	9 55	10	12
10	16 8	17	17	16 33	16	16	9 0	12 32	15	14	12 0	11	12	10	16 25	18	16	11 2	11	13
15	17 18	18	18	17 44	17	17	5	13 47	16	16	13 7	12	13	15	17 46	20	17	12 8	12	15
20	18 28	19	19	18 55	19	18	10	15 3	17	17	14 15	13	14	20	19 7	21	18	13 15	13	16
25	19 38	21	21	20 4	20	20	15	16 17	18	18	15 22	14	15	25	20 29	22	19	14 22	15	17
30	20 48	22	23	21 14	21	21	20	17 33	19	20	16 31	15	16	30	21 50	23	21	15 29	16	18
35	21 59	23	24	22 24	22	22	25	18 49	21	21	17 38	17	17	35	23 11	24	22	16 36	17	19
40	23 10	24	25	23 34	23	23	30	20 5	22	22	18 45	18	18	40	24 33	25	23	17 42	18	20
45	24 20	22	26	24 45	24	24	35	21 22	23	23	19 52	19	19	45	25 55	27	24	18 50	19	22
50	25 32	27	27	25 55	25	25	40	22 39	25	24	20 59	20	21	50	27 16	28	25	19 57	20	23
55	26 43	28	29	27 4	27	26	45	23 56	26	26	22 7	21	22				♍			
							50	25 13	27	27	23 13	22	23	55	28 38	0	26	21 5	22	24
							55	26 31	28	29	24 22	24	25							

Sd. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ♎ ′	♏	♏	° ♐ ′	♑	♒	H. M.	° ′	♐	♐	° ♑ ′	♒	♈	H. M	° ′	♐	♑	° ♒ ′	♈	♉
12 0	0 0	1	28	22 33	23	26			♏					16 0	2 ♐ 5	27	23	22 45	0	4
5	1 22	2	29	23 19	25	27	14 0	2 11	0	25	20 23	24	0	5	3 17	28	25	24 13	1	6
			♐				5	3 29	1	26	21 37	25	2	10	4 28	29	26	25 42	2	7
10	2 43	3	0	24 26	26	29	10	4 47	2	27	22 53	27	3			♑				
			♑				15	6 4	3	28	24 9	29	4	15	5 39	0	27	27 10	4	8
15	4 5	4	1	25 34	27	0				♑		♑		20	6 50	2	28	28 40	6	9
20	5 27	5	2	26 44	28	1	20	7 21	4	0	25 25	0	6	25	8 1	3	29	0 ♑ 12	8	10
25	6 48	7	3	27 52	29	3	25	8 38	6	1	26 42	2	8				♒			
					♒		30	9 54	7	2	28 59	3	9	30	9 11	4	0	1 42	9	12
30	8 10	8	4	29 0	0	4	35	11 11	8	3	29 16	4	10	35	10 22	5	2	3 14	10	14
35	9 31	10	6	0 ♑ 9	2	6	40	12 27	9	4	0 ♒ 33	6	11	40	11 32	6	4	4 45	11	15
40	10 53	11	7	1 18	3	7	45	13 42	10	5	1 54	8	13	45	12 42	8	5	6 17	14	16
45	12 14	12	8	2 27	4	8	50	14 57	11	6	3 12	9	14	50	13 52	9	6	7 51	15	17
50	13 35	13	9	3 36	5	10	55	16 13	12	7	4 33	10	15	55	15 2	10	7	9 23	17	18
55	14 56	14	10	4 47	7	12	15 0	17 28	13	8	5 52	11	17	17 0	16 12	11	8	10 56	18	19
13 0	16 17	15	11	5 57	8	13	5	18 42	14	10	7 15	13	19	5	17 21	13	9	12 29	20	20
5	17 37	16	12	7 6	9	14	10	19 57	16	11	8 36	15	20	10	18 30	14	10	14 4	22	22
10	18 58	18	13	8 17	11	16	15	21 11	17	12	9 58	16	21	15	19 39	15	12	15 39	23	23
15	20 18	19	14	9 28	12	17	20	22 25	19	13	11 21	18	23	20	20 49	16	14	17 13	24	25
20	21 38	21	16	10 40	14	19	25	23 38	20	15	12 46	20	25	25	21 58	17	15	18 49	25	26
25	22 58	22	17	11 52	15	20	30	24 51	21	16	14 9	21	26	30	23 7	18	16	20 25	27	27
30	24 18	23	18	13 3	16	21	35	26 4	22	17	15 32	22	27	35	24 16	19	18	22 0	28	28
35	25 38	24	19	14 15	18	23	40	27 17	23	18	17 58	24	28						♉	
40	26 57	25	20	15 28	19	24						♉		40	25 25	20	20	23 35	0	29
45	28 16	26	21	16 41	20	25	45	28 29	24	19	18 24	25	0						♊	
50	29 34	28	23	17 54	21	27	50	29 42	25	21	19 52	27	1	45	26 33	22	21	25 13	2	1
55	0 ♏ 53	29	24	19 8	23	29	55	0 ♐ 54	26	22	21 8	29	2	50	27 42	23	22	26 48	3	2
														55	28 51	24	23	28 24	4	3

Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′			° ′			H. M.	° ♑ ′	♒	♈	° ♉ ′	♊	♋	H. M.	° ♒ ′	♓	♉	° ♊ ′	♋	♌
	♑	♑	♒	♈	♉	♊											♈			
18 0	0 0	25	25	0 0	5	7	20 0	27 54	26	0	7 15	7	3	22 0	27 49	29	5	9 37	5	0
5	1 9	27	26	1 37	7	8	5	29 6	28	2	8 52	8	4			♈				
10	2 18	28	28	3 12	8	10	10	0 ♒ 18	29	3	10 8	9	5	5	29 7	1	7	10 52	6	1
			♑						♑					10	0 ♓ 26	2	8	12 6	7	2
15	3 26	29	0	4 47	9	11	15	1 30	0	5	11 36	10	6	15	1 44	4	9	13 19	8	4
		♒					20	2 43	2	6	13 2	12	7	20	3 3	6	11	14 32	9	5
							25	3 56	3	8	14 28	13	8	25	4 23	7	12	15 45	10	6
20	4 35	0	1	6 25	11	12	30	5 9	4	9	15 51	14	9	30	5 42	9	14	16 57	12	8
25	5 44	2	2	8 0	13	13	35	6 22	6	10	17 14	16	10	35	7 2	10	15	18 8	13	9
30	6 53	3	3	9 35	14	14	40	7 35	8	12	18 39	17	11	40	8 22	11	17	19 20	14	10
35	8 2	4	5	11 11	15	15	45	8 49	9	14	20 2	18	13	45	9 42	12	18	20 32	15	11
40	9 11	5	6	12 47	16	17	50	10 3	10	15	21 24	19	14	50	11 2	14	19	21 43	16	12
45	10 20	6	8	14 21	17	18	55	11 17	11	16	22 45	20	15	55	12 22	15	21	22 54	17	14
50	11 30	7	10	15 56	18	19	21 0	12 32	13	17	24 8	22	16	23 0	13 43	17	22	24 3	19	15
55	12 39	8	11	17 31	19	20	5	13 47	15	19	25 27	23	17	5	15 4	18	24	25 13	20	16
19 0	13 48	11	12	19 4	21	21	10	15 3	16	21	26 38	24	19	10	16 25	20	25	26 24	22	17
5	14 58	12	13	20 37	23	22	15	16 17	18	22	28 6	25	20	15	17 46	22	26	27 33	23	18
10	16 8	13	15	22 9	24	24	20	17 33	19	23	29 7	26	21	20	19 7	23	28	28 42	24	20
15	17 18	15	16	23 43	26	25	25	18 49	20	25	♉ ♊ 44	27	22	25	20 29	25	29	29 51	25	21
20	18 28	16	17	25 15	28	26	30	20 5	21	27	2 1	28	23				♊		♋	
25	19 38	17	19	26 46	29	27						♋		30	21 50	26	0	1 0	26	22
					♊		35	21 22	23	28	3 18	0	24	35	23 11	27	1	2 8	27	24
30	20 48	18	21	28 18	0	28	40	22 39	25	29	4 35	1	25	40	24 33	29	2	3 16	28	25
35	21 59	20	22	29 48	1	29				♉						♉				
					♋		45	23 56	26	1	5 51	2	27	45	25 55	0	3	4 26	29	26
40	23 10	21	24	1 ♉ 20	2	1	50	25 13	27	2	7 7	3	28						♌	
45	24 20	22	26	2 50	3	2	55	26 31	28	4	8 23	4	29	50	27 16	1	4	5 34	0	27
50	25 32	23	28	4 18	4	3								55	28 38	2	6	6 41	1	28
55	26 43	24	29	5 47	5	4														

Sid. Time.	10	11	12	Asc.	2	3	Sid. Time	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′			° ′			H. M.	° ′			° ′			H. M.	° ′			° ′		
	♈	♉	♊	♋	♌	♍		♉	♊	♋	♌	♍	♎		♊	♋	♌	♍	♎	♏
0 0	0 0	3	5	5 15	1	29	2 0	2 11	4	3	2 27	0	0	4 0	2 5	2	1	0 35	0	1
						♎	5	3 29	5	4	3 36	1	1	5	3 17	3	3	1 46	1	2
5	1 22	4	6	6 23	2	0	10	4 47	6	5	4 45	2	2	10	4 28	4	4	2 59	2	4
10	2 43	6	8	7 33	3	2	15	6 4	7	6	5 53	3	4	15	5 39	5	5	4 11	3	5
15	4 5	7	9	8 39	4	3	20	7 21	8	8	7 3	4	5	20	6 50	6	6	5 24	5	6
20	5 27	8	11	9 47	5	4	25	8 38	10	10	8 11	6	7	25	8 1	7	7	6 37	6	7
25	6 48	10	12	10 54	7	5	30	9 54	11	11	9 24	7	8	30	9 11	8	9	7 51	7	9
30	8 10	11	13	12 2	8	7	35	11 11	12	12	10 30	8	10	35	10 22	9	10	9 4	9	11
35	9 31	13	14	13 10	10	8	40	12 27	13	13	11 40	9	11	40	11 32	10	11	10 17	11	12
40	10 53	14	15	14 19	11	9	45	13 42	14	14	12 49	10	12	45	12 42	11	12	11 35	12	13
45	12 14	15	16	15 27	12	10	50	14 57	16	15	13 59	12	13	50	13 52	13	13	12 44	13	14
50	13 35	16	18	16 34	13	12	55	16 13	17	17	15 9	13	15	55	15 2	14	14	13 57	14	15
55	14 56	18	19	17 42	14	13	3 0	17 28	17	18	16 19	14	16	5 0	16 12	15	15	15 11	15	16
1 0	16 17	19	20	18 49	15	15	5	18 42	18	19	17 30	15	17	5	17 21	16	17	16 24	16	18
5	17 37	20	21	19 57	16	16	10	19 57	20	20	18 40	17	18	10	18 30	17	18	17 39	17	19
10	18 58	21	22	21 5	17	17	15	21 11	21	21	19 51	19	20	15	19 39	18	19	18 52	19	20
15	20 18	22	23	22 13	18	19	20	22 25	22	22	21 2	20	21	20	20 49	20	20	20 6	21	21
20	21 38	23	25	23 21	19	20	25	23 38	23	23	22 13	21	23	25	21 58	21	21	21 20	22	22
25	22 58	25	26	24 29	21	21	30	24 51	25	24	23 25	22	24	30	23 7	22	22	22 35	23	23
30	24 18	26	27	25 37	22	23	35	26 4	26	26	24 35	24	25	35	24 16	24	23	23 49	25	24
35	25 38	27	28	26 49	23	24	40	27 17	27	27	25 47	25	26	40	25 25	25	24	25 3	26	25
40	26 57	29	29	27 54	25	25								45	26 33	26	25	26 18	27	26
		♊	♋				45	28 29	28	28	26 59	26	28	50	27 42	27	26	27 31	28	27
45	28 16	0	0	29 2	26	27			♋					55	28 51	28	28	28 46	29	29
50	29 34	2	1	0 ♌ 9	28	28	50	29 42	0	29	28 10	28	29							
	♉							♊		♌			♏							
55	0 53	3	2	1 19	29	29	55	0 54	1	0	29 22	29	0							

Sid. Time.	10th.	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′			° ′			H. M.	° ′			° ′			H. M.	° ′			° ′		♓
	♋	♌	♍	♎	♏	♐		♋	♌	♎	♎	♏	♐		♌	♎	♍	♏	♐	26
6 0	0 0	29	0	0 0	0	1	8 0	27 54	29	0	29 25	29	28	10 0	27 49	0	0	27 33	27	27
		♌							♍		♏	♐			29 7	1	1	28 41	28	
5	1 9	0	1	1 14	1	2	5	29 ♌ 6	0	1	0 38	0	29							28
10	2 18	1	2	2 29	2	3							♑		♍					
15	3 26	3	4	3 42	4	5	10	0 18	2	2	1 50	2	0	10	0 26	3	2	29 51	29	
20	4 35	4	5	4 57	5	6	15	1 30	3	3	3 1	3	1						♐	♑
25	5 44	5	6	6 11	6	7	20	2 43	4	4	4 13	4	2	15	1 44	4	3	0 58	0	♒
30	6 53	7	7	7 25	8	8	25	3 56	5	6	5 25	5	4							1
35	8 2	8	8	8 40	9	9	30	5 9	6	8	6 35	6	5	20	3 3	5	5	2 6	1	2
40	9 11	9	9	9 54	10	10	35	6 22	8	10	7 47	7	7	25	4 23	7	6	3 16	3	3
45	10 20	10	11	11 8	11	12	40	7 35	9	11	8 58	9	8	30	5 42	8	7	4 23	4	5
50	11 30	11	13	12 21	12	13	45	8 49	11	12	10 9	10	9	35	7 2	10	9	5 31	5	7
55	12 39	12	14	13 36	13	14	50	10 3	12	13	11 20	11	10	40	8 22	11	10	6 39	6	8
7 0	13 48	14	15	14 49	15	15	55	11 17	14	15	12 30	12	11	45	9 42	12	11	7 47	7	9
5	14 58	15	16	16 3	16	16	9 0	12 32	15	16	13 41	13	12	50	11 2	13	12	8 55	8	10
10	16 8	16	17	17 16	17	17	5	13 47	16	17	14 51	14	13	55	12 22	15	13	10 3	9	11
15	17 18	17	18	18 25	18	18	10	15 3	17	18	16 1	15	14	11 0	13 43	16	15	11 11	11	12
20	18 28	19	19	19 43	20	19	15	16 17	18	20	17 11	16	16	5	15 4	17	16	12 18	12	13
25	19 38	20	20	20 56	21	20	20	17 33	20	21	18 20	18	17	10	16 25	18	17	13 26	13	15
30	20 48	22	22	22 9	22	22	25	18 49	21	22	19 30	19	18	15	17 46	19	19	14 33	14	16
35	21 59	23	23	23 23	23	23	30	20 5	22	23	20 39	20	19	20	19 7	21	20	15 41	16	17
40	23 10	24	25	24 36	24	24	35	21 22	23	24	21 49	21	20	25	20 29	22	21	16 50	17	19
45	24 20	25	26	25 49	25	25	40	22 39	25	26	22 58	22	21	30	21 50	23	22	17 58	18	20
50	25 32	26	28	27 1	26	26	45	23 56	26	27	24 7	23	23	35	23 11	25	23	19 6	19	21
55	26 43	28	29	28 14	27	27	50	25 13	27	28	25 15	25	24	40	24 33	26	25	20 13	20	22
							55	26 31	28	29	26 24	26	25	45	25 55	27	26	21 21	22	23
														50	27 16	28	27	22 27	23	24
																♏				
														55	28 38	0	28	23 37	24	26

Tables of Houses for Madras, Lat. 13° N. 4′

Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′			° ′			H. M.	° ′			° ′			H. M.	° ′			° ′		
	♎	♏	♏	♐	♑	♒		♏	♐	♐	♑	♒	♈		♐	♑	♑	♒	♉	♊
12 0	0 0	1	29	24 46	25	27	14 0	2 11	0	27	22 58	25	0	16 0	2 5	29	25	24 34	0	4
			♐				5	3 29	2	28	24 12	26	2				♑			
5	1 22	2	0	25 53	26	28	10	4 47	3	29	25 26	28	3	5	3 17	0	26	25 58	2	5
10	2 43	3	1	27 1	27	29				♑		♓		10	4 28	1	27	27 24	3	7
						♓	15	6 4	4	0	26 41	0	5	15	5 39	2	28	28 49	5	8
15	4 5	5	2	28 10	28	1	20	7 21	5	1	27 56	1	6					♓		
20	5 27	6	3	29 19	29	2	25	8 38	6	2	29 11	2	7	20	6 50	3	29	0 15	6	9
		♑			♒						♒						♒			
25	6 48	7	4	0 28	1	4	30	9 54	8	3	0 28	4	9	25	8 1	4	1	1 42	7	10
30	8 10	8	5	1 36	2	5	35	11 11	9	4	1 44	5	11	30	9 11	5	2	3 9	9	12
35	9 31	10	6	2 45	3	7	40	12 17	10	5	3 1	7	12	35	10 22	6	3	4 37	10	13
40	10 53	11	8	3 55	5	8	45	13 42	11	6	4 18	8	13	40	11 32	8	4	6 3	12	14
45	12 14	12	9	5 4	6	10	50	14 57	12	8	5 35	10	14	45	12 42	9	5	7 31	13	15
50	13 35	13	10	6 14	7	11	55	16 13	13	9	6 55	11	16	50	13 52	10	7	9 0	15	16
55	14 56	15	12	7 25	8	12	15 0	17 28	14	10	8 13	13	17	55	15 2	12	8	10 28	16	18
13 0	16 17	16	13	8 35	9	14	5	18 42	15	11	9 32	14	19	17 0	16 12	13	9	11 58	17	19
5	17 37	17	14	9 44	10	15	10	19 57	17	13	10 52	16	20	5	17 21	14	10	13 26	19	20
10	18 58	19	15	10 55	12	16	15	21 11	18	14	12 12	17	22	10	18 30	15	12	14 55	20	21
15	20 18	20	16	12 6	13	18	20	22 25	19	15	13 32	19	23	15	19 39	16	13	16 25	22	23
20	21 38	21	17	13 17	14	19	25	23 38	20	16	14 53	20	24	20	20 49	17	15	17 55	23	24
25	22 58	22	19	14 29	16	20	30	24 51	22	18	16 15	21	25	25	21 58	18	16	19 25	25	25
30	24 18	23	20	15 41	17	22	35	26 4	23	19	17 37	23	27	30	23 7	20	18	20 56	26	27
35	25 38	24	21	16 52	18	23	40	27 17	24	20	18 59	24	29	35	24 16	21	19	22 27	28	28
40	26 57	26	22	18 5	20	24							♉	40	25 25	22	21	23 57	29	29
45	28 16	27	23	19 18	21	26	45	28 29	25	21	20 23	26	0						♊	♋
50	29 24	28	24	20 30	22	27	50	29 42	26	22	21 47	27	1	45	26 33	23	22	25 29	0	0
	♏								♐					50	27 42	24	24	26 58	2	1
55	0 53	29	25	21 44	24	29	55	0 54	27	24	23 10	29	2	55	28 51	25	25	28 30	3	3

Tables of Houses for Madras, Lat. 13° N.4′.

Sid. Time	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3	Sid. Time.	10	11	12	Asc.	2	3
H. M.	° ′			° ′			H. M.	° ′			° ′			H. M.	° ′			° ′		
	♑	♑	♒	♈	♉	♋		♑	♒	♓	♉	♋			♒	♈	♉	♋	♌	
18 0	0 0	26	26	0 0	4	4								22 0	27 49	0	5	7 2	4	0
5	1 9	28	27	1 30	6	6	20 0	27 54	27	0	5 26	5	2	5	29 7	2	6	8 16	5	1
10	2 18	29	29	3 2	7	7	5	29 6	28	2	6 50	7	4	10	0 ♑ 26	3	8	9 30	6	2
		♒	♑						♑					15	1 44	5	9	10 42	7	3
15	3 26	0	0	4 31	9	8	10	0 18	0	3	8 13	8	5	20	3 3	6	10	11 55	8	4
20	4 35	1	1	6 3	10	9	15	1 30	1	5	9 37	9	6	25	4 23	8	12	13 8	9	6
25	5 44	2	2	7 33	12	10	20	2 43	2	6	11 1	10	7	30	5 42	9	13	14 19	10	7
30	6 43	3	4	9 4	13	11	25	3 56	4	7	12 23	11	8	35	7 2	10	14	15 31	11	8
35	8 2	5	5	10 35	14	12	30	5 9	5	9	13 45	13	9	40	8 22	12	16	16 43	13	9
40	9 11	7	6	12 5	16	14	35	6 22	6	10	15 7	14	10	45	9 42	13	17	17 54	14	10
45	10 20	8	8	13 35	17	15	40	7 35	7	12	16 28	15	11	50	11 2	14	18	19 5	15	11
50	11 30	9	9	15 5	19	16	45	8 49	8	13	17 48	16	12	55	12 22	16	20	20 16	16	13
55	12 39	10	11	16 34	20	17	50	10 3	10	14	19 8	17	13	23 0	13 53	17	21	21 25	17	14
19 0	13 48	11	12	18 2	21	18	55	11 17	12	16	20 28	19	15	5	15 4	18	22	22 35	18	15
5	14 58	12	14	19 23	22	19	21 0	12 32	13	17	21 47	20	16	10	16 25	20	24	23 46	20	16
10	16 8	14	15	21 0	24	21	5	13 47	14	19	23 5	21	17	15	17 46	21	25	24 56	21	18
15	17 18	15	17	22 29	25	22	10	15 3	16	20	24 25	22	18	20	19 7	22	27	26 5	22	19
20	18 28	16	18	23 57	26	23	15	16 17	17	22	25 42	24	19	25	20 29	24	28	27 15	23	20
25	19 38	17	20	25 23	27	24	20	17 33	19	23	26 59	25	20	30	21 50	25	29	28 24	24	21
30	20 48	19	21	26 51	28	25	25	18 49	20	25	28 16	26	21					♊		
35	21 59	20	23	28 18	29	26	30	20 5	21	26	29 32	27	22	35	23 17	26	0	29 32	26	22
					♊						♊			40	24 33	28	1	0 ♋ 41	27	23
40	23 10	22	24	29 45	1	28	35	21 22	23	28	0 49	28	24	45	25 55	29	2	1 50	28	25
		♈					40	22 39	24	29	2 4	29	25			♉				
45	24 20	23	26	1 11	2	29			♉			♋		50	27 16	0	3	2 59	29	26
						♋	45	23 56	26	0	3 19	0	26						♌	
50	25 32	24	27	2 36	3	0	50	25 13	27	2	4 34	2	27	55	28 38	1	4	4 7	0	27
55	26 43	25	29	4 2	4	1	55	26 31	29	3	5 48	3	28	24 0	0 ♈ 0	3	5	5 15	1	29

Hours or Degrees.

Min.	0	1	2	3	4	5	6	7	8	9	10	11	Min.
0	3·1584	1·3802	1·0792	·9031	·7781	·6812	·6021	·5351	·4771	·4260	·3802	·3388	0
1	3·1584	1·3730	1·0756	·9007	·7763	·6798	·6009	·5341	·4762	·4252	·3797	·3382	1
2	2·8573	1·3660	1·0720	·8983	·7745	·6784	·5997	·5330	·4753	·4244	·3788	·3375	2
3	2·6812	1·3590	1·0685	·8959	·7728	·6769	·5985	·5320	·4744	·4236	·3780	·3368	3
4	2·5563	1·3522	1·0649	·8935	·7710	·6755	·5973	·5310	·4735	·4228	·3773	·3362	4
5	2·4594	1·3454	1·0614	·8912	·7692	·6741	·5961	·5300	·4726	·4220	·3766	·3355	5
6	2·3802	1·3388	1·0580	·8888	·7674	·6726	·5949	·5289	·4717	·4212	·3759	·3349	6
7	2·3133	1·3323	1·0546	·8865	·7657	·6712	·5937	·5279	·4708	·4204	·3752	·3342	7
8	2·2553	1·3258	1·0511	·8842	·7639	·6698	·5925	·5269	·4699	·4196	·3745	·3336	8
9	2·2041	1·3195	1·0478	·8819	·7622	·6684	·5913	·5259	·4690	·4188	·3737	·3329	9
10	2·1584	1·3133	1·0444	·8796	·7604	·6670	·5902	·5249	·4682	·4180	·3730	·3323	10
11	2·1170	1·3071	1·0411	·8773	·7587	·6656	·5890	·5239	·4673	·4172	·3723	·3316	11
12	2·0792	1·3010	1·0378	·8751	·7570	·6642	·5878	·5229	·4664	·4164	·3716	·3310	12
13	2·0444	1·2950	1·0345	·8728	·7552	·6628	·5866	·5219	·4655	·4156	·3709	·3303	13
14	2·0122	1·2891	1·0313	·8706	·7535	·6614	·5855	·5209	·4646	·4148	·3702	·3297	14
15	1·9823	1·2833	1·0280	·8683	·7518	·6600	·5843	·5199	·4638	·4141	·3695	·3291	15
16	1·9542	1·2775	1·0248	·8661	·7501	·6587	·5832	·5189	·4629	·4133	·3688	·3284	16
17	1·9279	1·2719	1·0216	·8639	·7484	·6573	·5820	·5179	·4620	·5125	·3681	·3278	17
18	1·9031	1·2663	1 0185	·8617	·7467	·6559	·5809	·5169	·4611	·4117	·3674	·3271	18
19	1·8796	1·2607	1·0153	·8595	·7451	·6546	·5797	·5159	·4603	·4109	·3667	·3265	19
20	1·8573	1·2553	1 0122	·8573	·7434	·6532	·5786	·5149	·4594	·4102	·3660	·3258	20
21	1·8361	1·2499	1·0091	·8552	·7417	·6519	·5774	·5139	·4585	·4094	·3653	·3252	21
22	1·8159	1·2445	1·0061	·8530	·7401	·6505	·5761	·5129	·4577	·4086	·3646	·3246	22
23	1·7966	1·2393	1·0030	·8509	·7384	·6492	·5752	·5120	·4568	·4079	·3639	·3239	23
24	1·7781	1·2341	1·0000	·8487	·7368	·6478	·5740	·5110	·4559	·4071	·3632	·3233	24
25	1·7604	1·2289	·9970	·8466	·7351	·6465	·5729	·5100	·4551	·4063	·3625	·3227	25
26	1·7434	1·2239	·9940	·8445	·7335	·6451	·5718	·5090	·4542	·4055	·3618	·3220	26
27	1·7270	1·2188	·9910	·8424	·7318	·6438	·5706	·5081	·4534	·4048	·3611	·3214	27
28	1·7112	1·2139	·9881	·8403	·7302	·6425	·5695	·5071	·4525	·4040	·3604	·3208	28
29	1·6960	1·2090	·9852	·8382	·7286	·6412	·5684	·5061	·4516	·4032	·3597	·3201	29

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	1·1993	·9794	·8341	·7254	·6385	·5662	·5042	·4499	·4017	·3583	·3189	31
32	1·6532	1·1946	·9765	·8327	·7238	·6372	·5651	·5032	·4491	·4010	·3576	·3183	32
33	1·6398	1·1899	·9737	·8300	·7222	·6359	·5640	·5023	·4482	·4002	·3570	·3176	33
34	1·6269	1·1852	·9708	·8279	·7206	·6346	·5629	·5013	·4474	.3994	·3563	·3170	34
35	1·6143	1·1806	·9680	·8259	·7190	·6333	·5618	·5003	·4466	.3987	·3556	·3164	35
36	1·6021	1·1761	·9652	·8239	·7174	·6320	·5607	·4994	·4457	.3979	·3549	·3157	36
37	1·5902	1·1716	·9625	·8219	·7159	·6307	·5596	·4984	·4449	.3972	·3542	·3151	37
38	1·5786	1·1671	·9597	·8199	·7143	·6294	·5585	·4975	·4440	·3964	·3535	·3145	38
39	1·5673	1·1627	·9570	·8179	·7128	·6282	·5573	·4965	·4432	·3957	·3529	·3139	39
40	1·5563	1·1584	·9542	·8159	·7112	·6269	·5563	·4956	·4424	·3949	·3522	·3133	40
41	1·5456	1·1540	·9515	·8140	·7097	·6256	·5552	·4947	·4415	·3942	·3515	·3126	41
42	1·5351	1·1498	·9488	·8120	·7081	·6243	·5541	·4937	·4407	·3934	·3508	·3120	42
43	1·5249	1·1455	·9462	·8101	·7066	·6231	·5531	·4928	·4399	·3927	·3501	·3114	43
44	1·5149	1·1413	·9435	·8081	·7050	·6218	·5520	·4918	·4390	·3919	·3495	·3108	44
45	1·5051	1·1372	·9409	·8062	·7035	·6205	·5509	·4909	·4382	·3912	·3488	·3102	45
46	1·4956	1.1331	·9383	·8042	·7020	·6193	·5498	·4900	·4374	·3905	·3481	·3096	46
47	1·4863	1.1290	·9356	·8023	·7005	·6180	·5488	·4890	·4365	·3897	·3475	·3089	47
48	1·4771	1.1249	·9330	·8004	·6990	·6168	·5477	·4881	·4357	·3890	·3468	·3083	48
49	1·4682	1.1209	·9305	·7985	·6975	·6155	·5466	·4872	·4349	·3882	·3461	·3077	49
50	1·4594	1.1170	·9279	·7966	·6960	·6143	·5456	·4863	·4341	·3875	·3454	·3071	50
51	1·4508	1·1130	·9254	·7947	·6945	·6131	·5445	·4853	·4333	·3868	·3448	·3065	51
52	1·4424	1·1091	·9228	·7929	·6930	·6118	·5435	·4844	·4324	·3860	·3441	·3059	52
53	1·4341	1·1053	·9203	·7910	·6915	·6101	·5424	·4835	·4316	·3853	·3434	·3053	53
54	1·4260	1·1015	·9178	·7891	·6900	·6094	·5414	·4826	·4308	·3846	·3428	·3047	54
55	1·4180	1·0977	·9153	·7873	·6885	·6081	·5403	·4817	·4300	·3838	·3421	·3041	55
56	1·4102	1·0939	·9128	·7854	·6871	·6069	·5393	·4808	·4292	·3831	·3415	·3034	56
57	1·4025	1·0902	·9104	·7836	·6856	·6057	·5382	·4798	·4284	·3824	·3408	·3028	57
58	1·3949	1·0865	·9079	·7818	·6841	·6045	·5372	·4789	·4276	·3817	·3401	·3022	58
59	1·3875	1·0828	·9055	·7800	·6827	·6033	·5361	·4780	·4268	·3809	·3395	·3016	59

Hours or Degrees.

Min.	12	13	14	15	16	17	18	19	20	21	22	23	Min.
0	·3010	·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	.9977	·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

Hours or Degrees.

Min.	12	13	14	15	16	17	18	19	20	21	22	23	Min.
30	·2833	2499	2188	·1899	·1627	·1372	·1130	·0902	·0685	0478	·0280	·0091	30
31	2827	·2493	·2183	·1894	·1623	1368	·1127	·0898	·0681	·0474	·0277	·0088	31
32	·2821	2488	2178	·1889	·1618	·1363	·1123	·0894	·0678	·0471	·0274	·0085	32
33	2816	2483	2173	·1885	·1614	·1359	·1119	·0891	·0674	·0468	·0271	·0082	33
34	2810	2477	2168	1880	·1610	1355	1115	·0887	·0670	·0464	·0267	·0079	34
35	·2804	·2472	·2164	·1875	·1605	·1351	·1111	·0883	·0667	·0461	·0264	·0076	35
36	·2798	·2467	·2159	·1871	·1601	·1357	·1107	·0880	·0663	·0458	·0261	·0073	36
37	·2793	·2461	·2154	·1866	·1597	·1343	·1103	·0876	·0660	·0454	·0258	·0070	37
38	·2787	·2456	·2149	·1862	·1592	·1339	·1099	·0872	·0656	·0451	·0255	·0067	38
39	2781	·2451	·2144	1857	·1588	·1335	·1095	·0869	·0652	·0448	·0251	·0064	39
40	·2775	·2445	·2139	·1852	1584	·1331	·1091	·0865	·0649	·0444	·0248	·0061	40
41	·2770	·2440	·2134	·1848	·1579	·1326	·1088	·0861	·0646	·0441	·0245	·0058	41
42	·2764	·2435	·2129	·1843	·1575	·1322	·1084	·0857	·0642	·0438	·0242	·0055	42
43	2758	·2430	·2124	·1838	·1571	·1318	·1080	·0854	·0639	·0434	·0239	·0052	43
44	2753	2424	2119	·1834	·1566	·1314	·1076	·0850	·0635	·0431	·0236	·0049	44
45	·2747	·2419	·2114	·1829	·1561	·1310	·1072	·0846	·0632	·0428	·0232	·0046	45
46	·2741	·2414	·2109	·1825	·1558	·1306	·1068	·0843	·0628	·0424	·0229	·0042	46
47	·2736	·2409	·2104	·1820	·1553	·1302	·1064	·0839	·0625	·0421	·0226	·0039	47
48	·2730	·2403	·2099	·1816	·1549	·1298	·1061	·0835	·0622	·0418	·0223	·0036	48
49	·2724	·2398	·2095	·1811	·1545	·1294	·1057	·0832	·0618	·0414	·0220	·0033	49
50	·2719	·2393	·2090	·1806	·1540	·1290	·1053	·0828	·0615	·0411	·0216	·0030	50
51	·2713	·2388	·2085	·1802	·1536	·1286	1049	·0825	·0611	·0408	·0213	·0027	51
52	·2707	·2382	·2080	·1797	·1532	·1282	·1045	·0821	·0603	·0404	·0210	·0024	52
53	·2702	·2377	·2075	·1793	·1528	·1278	·1041	·0817	·0604	·0401	·0207	·0021	53
54	2696	·2372	·2070	·1788	·1523	·1274	·1038	·0814	·0601	·0398	·0204	·0018	54
55	·2691	·2367	·2065	·1784	·1519	·1270	·1034	·0810	·0597	·0394	·0201	·0015	55
56	·2685	·2362	·2061	·1779	·1515	·1266	·1030	·0806	·0594	·0391	·0197	·0012	56
57	·2679	·2356	·2056	·1774	·1510	·1261	·1026	·0803	·0590	·0388	·0194	·0009	57
58	·2674	·2351	·2051	·1770	·1506	·1257	·1022	·0799	·0587	·0384	·0191	·0006	58
59	·2668	·2346	·2046	·1765	·1502	·1253	·1018	·0795	·0583	·0381	·0188	·0003	59

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