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Khaldea Ephemeris 2009 Z

Midnight GMT (UT) Edition

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Created & Developed by

Michael R. Meyer

khaldea.com

KHALDEA*Ephemeris7z*

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Khaldea*Ephemeris* Version 7 computes planetary positions in full agreement with the Astronomical Almanac, using JPL DE405/406 fundamental data. Reduction to apparent positions is performed in strict accordance with the Astronomical Almanac and its Explanatory Supplement. Fundamental accuracy is greater than +/- 0.0001 arcsecond for the Sun, Moon and solar system planets over a span of 6,000 years.

Khaldea*Ephemeris7* technology was first deployed in 2003 for the production of the Khaldea **2004 Astrological Calendar**, which incorporated the most accurately timed astro-data ever computed. For the **2004 Khaldea Calendar** project, meticulous attention was given to obtaining the highest possible accuracy for astrological aspects and other timed data. It takes more than the world's most accurate ephemeris to generate an aspectarian of the greatest accuracy. The goal was to establish a new standard, not to settle with just getting the data to agree with printed authorities. Data was strenuously tested and validated, and in doing so the weaknesses of printed authorities were revealed. As a result, our *timed* data has a general accuracy of +/- 2 seconds!

Khaldea*Ephemeris7z* is an electronic, PDF version of the most accurate and precise astrological ephemeris ever developed – it presents ultra-accurate timed data in a high-precision format of hour, minute and second. Additionally, degree, minute and *arc*second precision is shown throughout.

Ironically, the drive to establish a new standard for accuracy and precision was not fueled by a need for precision in astrological timing. We do not advocate the use astrological data for the *precise* timing of life-events, and we do not promote astrological prediction. The intent was to merely develop *a new standard for the presentation of core astrological data*.

In setting the 21st century standard, **Khaldea*Ephemeris7z*** features a greatly expanded set of data and graphics. Its **Astro-Data** uniquely includes timed data pertaining to the cycles of Mercury and Venus. The **extended Aspectarian** includes not only an extended range of aspects, parallels and other data, it shows the planets' position at the moment of any aspect or data event — with degree, minute and *arc*second precision! **Khaldea*Ephemeris7z*** goes far beyond any other ephemeris in featuring a large set of ephemeris graphics – 14 types total. Tabular data and graphics are provided for five harmonics (10th/36°, 9th/40°, 8th/45°, 7th/51.42°, and 5th/72°) and five coordinates (geocentric longitude, geocentric latitude, declination, speed of daily motion, and heliocentric distance), as well as annual graphics for geocentric longitude, geocentric latitude, declination and speed. See the sections for how to use the ephemeris for more details.

This is the UT (Universal Time) edition of **Khaldea*Ephemeris7z***. Time Zone specific editions of the Aspectarian and Astro-Data include adjustments for Daylight Saving Time (DST) when and where applicable, in such instances a note is appended at the foot of the page, stating the start and end of DST.

Distribution is Strictly Prohibited

Khaldea*Ephemeris7* is an electronic ephemeris in printable Adobe PDF format. You may print hard copies for your ***personal use only***. Distribution of **Khaldea*Ephemeris7z*** prints, screen images, data, fonts or other output, either for sale or freely given, is strictly prohibited, constituting a violation of U.S. and International Copyright.

Publishers interested in licensing data and custom graphics generated by **Khaldea*7z*** may contact Michael R. Meyer, the sole creator and developer of **Khaldea*Technology***, via **permissions@khaldea.com**

Khaldea*Ephemeris7z* is available exclusively from **www.khaldea.com**
Visit **www.khaldea.com/ephemeris** for sales and support.

Khaldea*Ephemeris7* is the current version of technology in development since 1985. It is an integral component of a larger application known as **Khaldea*7z***, a proprietary software application which generates and graphically displays high-precision data. It is currently in its seventh version. Regardless of name or version, it has always been a highly interactive graphic application, it has always displayed round chart wheels with very legible glyphs and symbols. A DOS version never existed. It has never used a single line of Basic of any favor. It displayed and printed round charts wheels, it had real glyphs and symbols, it was written in the C language, it was in Windows version 1.0, way back in the mid-1980s when other astro apps could only display and print square charts lacking glyphs and symbols.

In short, **Khaldea*Technology*** – known as *AstroSpheres* prior to 1994 – produced the first desktop application to display a true astrological chart wheel in a **MS Windows** GUI, as well as the first full astrological application with its front-end and back-end programmed entirely in the C language. During 1994-1996, *AstroSpheres* underwent a major upgrade and was designated **Khaldea2001.** The designation “Khaldea” was chosen because at that time city names were often used to secretly designate software and operating systems under development. “Chicago,” “Cairo“ and “Memphis“ were code names of MS Windows versions being developed in the mid-1990s, and Borland’s next-generation development tool was known as “Delphi”. “Khaldea” seemed the obvious choice, and “2001” never referred a released date, but it was added because it sounded futuristic – like the film, *Space Odyssey 2001***.** The software was upgraded during 2001, however, and its designation changed from **Khaldea2001** to **Khaldea2001+.** The backend software was again substantially upgraded during 2003 to achieve unsurpassed accuracy and to generate the most accurate and precise timed data ever published. The application’s front-end next underwent a major upgrade during 2004, resulting in the seventh version: **Khaldea*7z***.

Since year 2000, Khaldea*Technology* has been deployed in the production of our free, online astro-charts, calendars for multiple time zones, and our famous 3000 year ephemeris. This is the first commerical release of the **Khaldea*Ephemeris.***

The Planets

☉ Sun
☽ Moon
☿ Mercury
♀ Venus
♂ Mars
♃ Jupiter
♄ Saturn
♅ Uranus
♆ Neptune
♇ Pluto

The Signs

♈ Aries
♉ Taurus
♊ Gemini
♋ Cancer
♌ Leo
♍ Virgo
♎ Libra
♏ Scorpio
♐ Sagittarius
♑ Capricorn
♒ Aquarius
♓ Pisces

Aspects

Waxing Aspects
☌ Conjunction (0°)
⚺ Semi-Sextile (30°)
⚻ Decile(36°)
⚼ Novile (40°)
∟ Octile (45°)
⚹ Septile (51°25')
⚺ Sexitile (60°)
☆ Quintile (72°)
⚼ Bi-Novile (80°)
□ Square (90°)
⚹ Bi-Septile (101°52')
⚻ Tri-Decile (108°)
△ Trine (120°)
⯑ Tri-Octile (135°)
⚺ Bi-Quintile (144°)
⚻ Quincunx (150°)
⚹ Tri-Septile (154°18')
⚼ Quad-Novile (160°)

Waning Aspects
☍ Opposition (180°)
⚼ Quad-Novile (220°)
⚹ Tri-Septile (206°44')
⚻ Quinqunx (210°)
⚺ Bi-Quintile (216°)
⯑ Tri-Octile (225°)
△ Trine (240°)
⚻ Tri-Decile (252°)
⚹ Bi-Septile (257°10')
□ Square (270°)
⚼ Bi-Novile (280°)
☆ Quintile (288°)
⚺ Sextile (300°)
⚹ Septile (308°36')
∟ Octile (315°)
⚼ Quad-Novile (320°)
⚻ Decile (324°)
⚺ Semi-Sextile (330°)

Aspects in Declination
∥ Parallel
∦ Counter-Parallel

Phenomena

Geocentric Velocity
℞ Retrograde
D Direct
S Stationary

Heliocentric Distance
P Perihelion
A Aphelion

Visual Magnitude
✧ Max. Brightness

Latitude & Declination
D♉ 0 N. Declination
D♑ 0 S. Declination
L♉ 0 N. Latitude
L♑ 0 S. Latitude
D^ Max. N. Declination
Dv Max. S.Declination
L^ Max. N. Latitude
Lv Max. S. Latitude

Mercury and Venus
☉ Max. Eastern Elongation
☉ Max. Western Elongation

Lunar Phenomena

Lunar Phases
● New Moon
◔ Crescent Moon
◐ First Quarter
◐ Gibbous Moon
○ Full Moon
◑ Disseminating
◑ Third Quarter
◔ Balsamic Moon

Eclipses
☄ Solar Eclipse
☄ Lunar Eclipse

Geocentric Distance
p/P Lunar Perigee
a/A Lunar Apogee

Orbital Elements
☊ N. Lunar Node

This is a Midnight Greenwich Mean Time (and Universal Time) edition of the **Khaldea*Ephemeris7z***, an electronic ephemeris in fully bookmarked PDF format. It is the most accurate and precise ephemeris ever published, and its extended data and graphics easily makes it the largest, with each year of the **Khaldea*Ephemeris7z*** spanning 180 pages. Each month of the ephemeris package includes:

• A traditional one-page daily listing of geocentric longitude, latitude and declination of each of the ten astrological planets, and the longitude of the north lunar node. Sidereal Time is not listed because anyone who would use an electronic ephemeris would have access to electronic astro-chart tools, which are available free on the Internet.

• A one-page listing of astro-data, common aspects and parallels in a conventional format. Time Zone editions of the **Khaldea*Ephemeris7z*** will list times for your time zone, and for Daylight Savings Time when and where observed.

• An three-page listing of extended astro-data, parallels and an extended range of aspects. Additionally, listings include the planets' position at the moment of the aspect or phenomenon. Time Zone editions of the **Khaldea*Ephemeris7z*** will list times according to your time zone, and for Daylight Savings Time when and where observed.

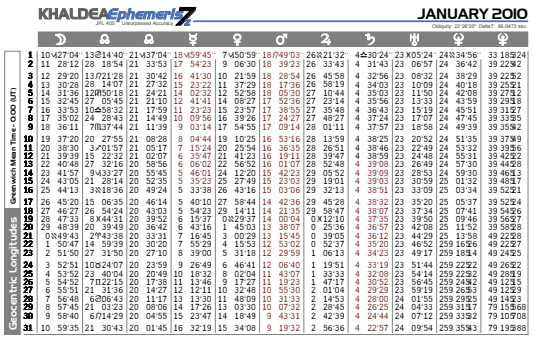
• Ten additional pages of tabular listings and ephemeris graphics for the planets' daily positions according to five coordinate systems and five harmonics. The five coordinate systems are: geocentric longitude, latitude, declination, speed of daily motion, and heliocentric distance. The five harmonics are: 10th Harmonic (36°), 9th Harmonic (40°), 8th Harmonic (45°), 7th Harmonic (51.42°), and 5th Harmonic (72°) .

Getting Acquainted with Khaldea*Ephemeris7z*

Anyone who has used a traditional ephemeris will feel immediately familiar with the tabular listings, and novices can quick start by referring to the **Key to Symbols**. **Khaldea*Ephemeris7z***, nevertheless, includes a multiplicity of special and unique features, which are outlined below.

Page Heading

Your will find our branding at the top-left of each page of **Khaldea*Ephemeris7z***. The month and year of the ephemeris is given at the top-right, and below it the Obliquity of the Ecliptic and DeltaT value for the first day of the month. This a Universal Time edition of **Khaldea*Ephemeris7z***, which factors DeltaT.


KHALDEA*Ephemeris7z* JANUARY 2010

Obliquity: 23°26'20" DeltaT: 0h34'13 sec.

Geocentric Longitudes — Greenwich Mean Time - 0:00 (UT)

	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	10♑27°04'	13♒14'40	21♑37'04	18♑45'45	7♑50'59	18♑49'03	26♒21'32	4♓30'24	23♈05'24	24♓34'56
2	11 28°12	28 18°54	21 33°53	17 54°23	9 06°30	18 39°23	26 33°43	4 31°43	23 06°57	24 36°42
3	12 29°20	13♑21'28	21 30°42	16 41°30	10 21°59	18 28°54	26 45°58	4 32°56	23 08°32	24 38°29
4	13 30°28	28 14°07	21 27°32	15 22°22	11 37°29	18 17°36	26 58°19	4 34°03	23 10°09	24 40°18
5	14 31°36	12♒50'18	21 24°21	14 02°32	12 52°58	18 05°30	27 10°44	4 35°03	23 11°50	24 42°08
6	15 32°45	27 05°45	21 21°10	12 41°41	14 08°27	17 52°36	27 23°14	4 35°56	23 13°33	24 43°59
7	16 33°53	10♓58'32	21 17°59	11 22°22	15 23°57	17 38°55	27 35°48	4 36°43	23 15°19	24 45°51
8	17 35°02	24 28°43	21 14°49	10 03°56	16 39°26	17 24°27	27 48°27	4 37°24	23 17°07	24 47°45
9	18 36°11	7♈37'44	21 11°39	9 03°14	17 54°55	17 09°14	28 01°11	4 37°57	23 18°58	24 49°39
10	19 37°20	20 27°55	21 08°28	8 04°44	19 10°25	16 53°16	28 13°59	4 38°25	23 20°52	24 51°35
11	20 38°30	3♉01'57	21 05°17	7 15°24	20 25°54	16 36°35	28 26°51	4 38°46	23 22°49	24 53°32
12	21 39°39	15 22°32	21 02°07	6 35°47	21 41°23	16 19°11	28 39°47	4 38°59	23 24°48	24 55°31
13	22 40°48	27 32°16	20 58°56	6 06°02	22 56°52	16 01°07	28 52°48	4 39°08	23 26°49	24 57°30
14	23 41°57	9♊33'27	20 55°45	5 46°01	24 12°20	15 42°23	29 05°52	4 39°09	23 28°53	24 59°30
15	24 43°05	21 28°14	20 52°35	5 35°23	25 27°49	15 23°03	29 19°01	4 39°03	23 30°59	25 01°32
16	25 44°13	3♋18'16	20 49°24	5 33°38	26 43°16	15 03°06	29 32°13	4 38°51	23 33°09	25 03°34
17	26 45°20	15 06°35	20 46°14	5 40°10	27 58°44	14 42°36	29 45°28	4 38°32	23 35°20	25 05°37
18	27 46°27	26 54°24	20 43°03	5 54°23	29 14°11	14 21°35	29 58°47	4 38°07	23 37°34	25 07°41
19	28 47°33	8♌44'31	20 39°52	6 15°37	0♒29'37	14 00°04	0♓12'10	4 37°35	23 39°50	25 09°46
20	29 48°39	20 39°49	20 36°42	6 43°16	1 45°03	13 38°07	0 25°36	4 36°57	23 42°08	25 11°52
21	0♍49°43	2♍43'30	20 33°31	7 16°45	3 00°29	13 15°45	0 39°05	4 36°12	23 44°29	25 13°58
22	1 50°47	14 59°39	20 30°20	7 55°23	4 15°53	12 53°02	0 52°37	4 35°20	23 46°52	25 16°05
23	2 51°50	27 31°50	20 27°10	8 39°00	5 31°18	12 29°59	1 06°13	4 34°23	23 49°17	25 18°14
24	3 52°51	10♎24'07	20 23°59	9 26°49	6 46°41	12 06°40	1 19°51	4 33°19	23 51°44	25 20°22
25	4 53°52	23 40°04	20 20°49	10 18°32	8 02°04	11 43°07	1 33°33	4 32°08	23 54°14	25 22°32
26	5 54°52	7♏22'15	20 17°38	11 13°46	9 17°27	11 19°23	1 47°17	4 30°52	23 56°45	25 24°42
27	6 55°51	21 31°36	20 14°27	12 12°11	10 32°48	10 55°30	2 01°04	4 29°29	23 59°19	25 26°53
28	7 56°48	6♐06'43	20 11°17	13 13°30	11 48°09	10 31°33	2 14°53	4 28°00	24 01°55	25 29°05
29	8 57°45	21 03°23	20 08°06	14 17°26	13 03°30	10 07°32	2 28°45	4 26°25	24 04°33	25 31°17
30	9 58°40	6♑14'29	20 04°55	15 23°47	14 18°49	9 43°31	2 42°39	4 24°44	24 07°12	25 33°32
31	10 59°35	21 30°43	20 01°45	16 32°19	15 34°08	9 19°32	2 56°36	4 22°57	24 09°54	25 35°48

Declinations & Latitudes — Greenwich Mean Time - 0:00 (UT)

	☉ Decl	☽ Decl	Lat	☿ Decl	Lat	♀ Decl	Lat	♂ Decl	Lat	♃ Decl	Lat	♄ Decl	Lat	♅ Decl	Lat	♆ Decl	Lat	♇ Decl	Lat
1	23♑02	23♑30	03♑13	20♑28	1♑38	23♑39	02♑26	16♑35	3♑35	13♑30	22♑56	0♓19	23♑10	3♓26	02♓45	13♑27♑	22♑25	18♑18	5♑26
2	22 50	19 51	02♑01	20 19	1 50	23 36	0 20	16 51	3 76	13 32	2 56	0 18	2 18	3 25	0 45	13 73	2 25	18 18	5 26
3	22 51	17 53	2 01	20 10	2 15	23 33	0 31	16 56	3 50	13 28	2 56	0 18	2 18	3 24	0 45	13 72	2 25	18 18	5 26
4	22 75	9 05	3 12	20 03	2 31	23 29	0 33	19 02	3 53	13 24	2 56	0 18	2 18	3 24	0 45	13 72	2 25	18 18	5 06
5	22 39	2 53	7 10	19 56	2 45	23 27	0 35	19 06	3 55	13 22	2 56	0 18	2 18	3 23	0 45	13 71	2 25	18 18	5 06
6	22 22	32 07	7 51	19 54	2 50	23 25	0 37	19 37	3 57	13 15	2 56	0 18	2 18	3 22	0 45	13 72	2 25	18 18	5 06
7	22 25	9 08	5 13	19 51	3 06	23 12	0 39	19 21	3 60	13 11	2 56	0 18	2 19	3 22	0 45	13 72	2 25	18 18	5 06
8	22 10	17 27	5 10	19 50	3 20	23 05	0 75	19 27	3 02	13 26	2 56	0 18	2 19	3 21	0 45	13 73	2 25	18 18	5 06
9	22 09	18 51	5 05	19 51	3 16	22 56	0 77	19 37	7 07	13 22	2 56	0 18	2 20	3 20	0 44	13 38	2 25	18 18	5 05
10	22 00	22 19	4 30	19 52	3 20	22 79	0 76	19 71	7 06	12 58	2 56	0 18	2 20	3 19	0 44	13 38	2 25	18 18	5 05
11	21 51	24 38	3 50	19 55	3 20	22 70	0 76	19 48	4 28	12 53	2 56	0 18	2 20	3 16	0 44	13 30	2 25	18 18	5 05
12	21 72	25 43	3 06	19 59	3 10	22 31	0 50	19 55	4 12	12 48	2 56	0 18	2 20	3 16	0 44	13 36	2 25	18 18	5 05
13	21 32	25 32	2 00	20 04	3 14	22 20	0 52	22 22	4 12	12 44	2 56	0 18	2 21	3 10	0 44	13 36	2 25	18 18	5 05
14	21 22	24 09	1 04	20 10	3 06	22 09	0 57	22 12	4 14	12 39	2 56	0 19	2 21	3 16	0 44	13 35	2 25	18 18	5 05
15	21 11	21 42	0302	20 10	3 02	21 57	0 55	22 18	4 16	12 35	2 56	0 19	2 21	3 15	0 44	13 37	2 25	18 18	5 05
16	20 60	18 19	1 00	20 25	2 55	21 75	0 57	22 25	4 18	12 32	2 56	0 19	2 22	3 14	0 44	13 37	2 25	18 18	5 05
18	20 78	14 14	2 09	20 33	2 46	21 32	0 59	22 33	4 19	12 25	0 55	0 20	2 22	3 13	0 44	13 33	2 25	18 18	5 05
19	20 36	9 38	3 06	20 41	2 30	21 16	1 01	22 41	4 21	12 21	0 55	0 20	2 22	3 12	0 44	13 32	2 25	18 18	5 05
20	20 27	4 40	3 55	20 49	2 26	21 07	1 01	22 48	4 22	12 16	0 55	0 20	2 22	3 11	0 44	13 32	2 25	18 18	5 05
21	20 11	0330	4 34	20 56	2 20	20 98	1 02	22 56	4 23	12 11	0 55	0 21	2 23	3 11	0 44	13 31	2 25	18 18	5 05
22	19 58	5 41	5 01	21 06	2 06	20 33	1 06	21 24	4 25	12 06	0 55	0 21	2 23	3 10	0 44	13 32	2 25	18 18	5 05
23	19 75	10 65	5 15	21 14	1 56	20 17	1 06	21 12	4 26	12 02	0 55	0 22	2 23	3 09	0 44	13 32	2 25	18 18	5 05
23	19 31	15 29	5 15	21 21	1 46	19 60	1 09	21 19	4 20	11 50	0 55	0 23	2 24	3 06	0 44	13 29	2 25	18 18	5 05
28	19 10	19 40	4 59	21 29	1 36	19 73	1 10	21 20	4 28	11 52	0 55	0 23	2 24	3 00	0 44	13 28	2 25	18 18	5 05
25	19 02	23 00	4 20	21 35	1 26	19 25	1 12	21 34	4 29	11 40	0 55	0 24	2 24	3 06	0 44	13 20	2 25	18 18	5 05
26	18 78	25 09	3 39	21 41	1 10	19 06	1 13	21 42	4 32	11 42	0 55	0 25	2 24	3 05	0 44	13 20	2 25	18 18	5 05
28	18 32	25 46	2 30	21 46	1 00	16 77	1 17	21 49	4 32	11 30	0 55	0 26	2 25	3 04	0 44	13 26	2 25	18 18	5 05
28	18 10	24 40	1 22	21 50	0 50	16 27	1 19	21 56	4 31	11 32	0 55	0 20	2 25	3 02	0 44	13 25	2 25	18 18	5 05
29	18 01	21 48	0 00	21 53	0 46	16 07	1 17	22 03	4 31	11 20	0 55	0 20	2 25	3 01	0 44	13 25	2 25	18 18	5 05
30	10 75	10 22	1223	21 55	0 36	17 77	1 14	22 12	4 32	11 22	0 55	0 26	2 25	3 22	2 77	13 27	2 25	18 18	5 05
31	10 28	11 48	2 40	21 50	0 26	17 25	1 19	22 10	4 32	11 10	0 55	0 29	2 26	2 59	2 77	13 23	2 25	18 10	5 05

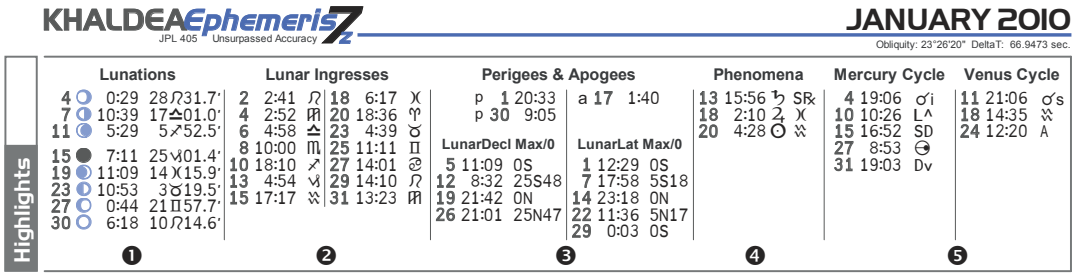
Tabular Listings

Khaldea*Ephemeris7z* includes several tabular listings, enumerated above. The color red is used to designate retrograde motion of geocentric longitude (zodiacal position) and southern declination or latitude. Learn about the astrological planets, read **The Planets - Celestial Organs and Their Functions**. Visit **www.khaldea.com** for free astrological books and articles.

Astro-Data

Khaldea*Ephemeris7z* provides an abundance of astrological aspects and phenomena, some of them unique to the Khaldea*Ephemeris*.

Both versions include the same ***Highlights*** section near the top of the first astro-data page.



❶ The dates, times and zodiacal positions (geocentric longitudes) of lunations are shown at the extreme left. Eclipses are designated by a gray lunar icon. Learn about the **Lunation Cycle** and **Lunation Planning** at **www.khaldea.com**

❷ Next, moving from left to right, the times of lunar ingresses (when the moon changes signs) are listed, followed by ❸ perigees and apogees (when the moon is closest and furthest from earth), and the dates, times and positions of maximum lunar latitude and declination, north and south, and of zero latitude and declination. Like all timed data listed in the **Khaldea*Ephemeris7z***, lunar data is of the highest accuracy and precision.

❹ General phenomena are displayed to the right of lunar data, which includes the ingresses and stations of the astrological planets.

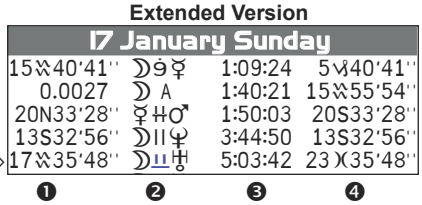
❺ Finally, data regarding the cycles of Mercury and of Venus are listed in the two columns at the extreme right. Read **The Four Faces of Mercury** and **Venus Morning Star, Venus Evening Star** to learn about the cycles of Mercury and Venus.

All data listed under ***Highlights*** is also listed in the ***Daily Aspectarian*** section.

The Daily Aspectarian makes up the main area of the Astro-Data pages. Both the conventional and extended versions of the Astro-Data pages display data not found anywhere else; if some of the glyphs are unfamiliar to you, take a look at the **Key to Symbols**. Additionally, the Khaldea*Ephemeris* is the only astrological reference to distinguish waxing and waning aspects, displaying waning aspects in blue. To learn more about planetary aspects and the cycle of aspects, see **The Eon: *The Cycle of 36 Cyclic Aspects Depicted*.**

Here's a couple examples of how to read the Khaldea*Aspectarian*.

Extended Version



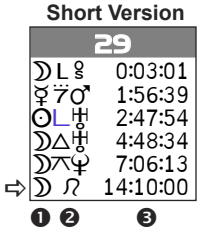
❶ Geocentric longitude of the Moon

❷ Moon waning tri-decile Uranus

❸ Time: 5 hours, 3 minutes, 42 seconds

❹ Geocentric longitude of Uranus

Short Version



❶ The Moon

❷ Enters the Sign Leo

❸ Time: 14 hours, 10 minutes, 0 seconds or 2:10PM

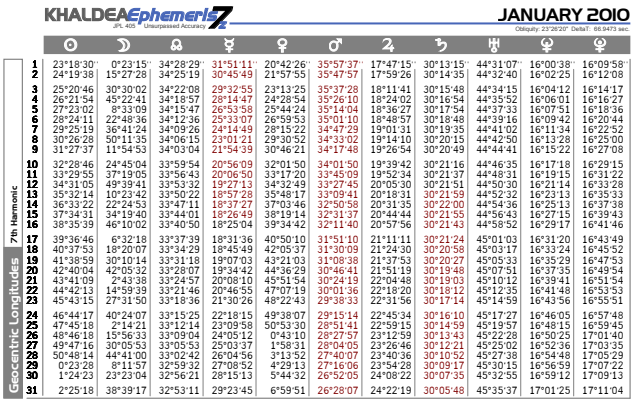
Ephemeris Graphics

Khaldea*Ephemeris7z* includes several easy-to-read and highly accurate graphics. Tabular listing pertaining to the particular coordinate system or harmonic accompany monthly ephemeris graphics.

A 7th Harmonic graphic ephemeris and tabular listing shown at the right is one of the five monthly pages showing ***harmonic*** data and graphics for the planet's geocentric longitudes. The tables and graphics both provide a quick and easy way to determine planetary aspects, and are especially useful when searching for aspects of the decile (10th harmonic), novile (9th harmonic) septile (7th harmonic) and quintile (5th harmonic) series.

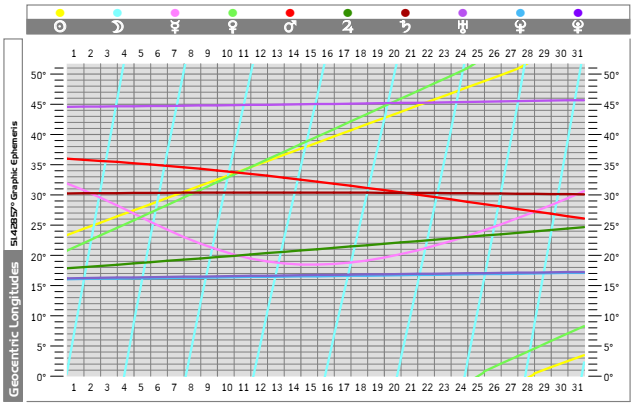
For instance, the ephemeris graphic shows a septile series aspect between Moon and Venus, occurring around noon on 2 January. A quick glance at the tabular listing indicates the same. The extended version of the Aspectarian shows a waning bi-septile occurring at 11:18:31 GMT.

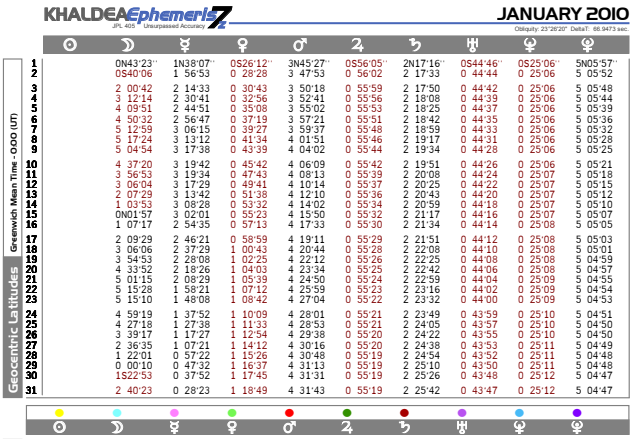
Use Adobe Acrobat's Zoom feature to enlarge graphics.


KHALDEA*Ephemeris7z* JANUARY 2010

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇
1	23°18'30''	0°23'15''	34°28'29''	31°51'11''	20°42'26''	35°57'37''	17°47'15''	30°13'15''	44°31'07''	16°00'38''	16°09'58''
2	24°19'38''	15°27'28''	34°25'19''	30°45'49''	21°57'55''	35°47'57''	17°59'26''	30°14'35''	44°32'40''	16°02'25''	16°12'08''
3	25°20'46''	30°30'02''	34°22'08''	29°32'55''	23°13'25''	35°37'28''	18°11'41''	30°15'48''	44°34'15''	16°04'12''	16°14'17''
4	26°21'54''	45°22'41''	34°18'57''	28°14'47''	24°28'54''	35°26'10''	18°24'02''	30°16'54''	44°35'52''	16°06'01''	16°16'27''
5	27°23'02''	8°33'09''	34°15'47''	26°53'58''	25°44'24''	35°14'04''	18°36'27''	30°17'54''	44°37'33''	16°07'51''	16°18'36''
6	28°24'11''	22°48'36''	34°12'36''	25°33'07''	26°59'53''	35°01'10''	18°48'57''	30°18'48''	44°39'16''	16°09'42''	16°20'44''
7	29°25'19''	36°41'24''	34°09'26''	24°14'49''	28°15'22''	34°47'29''	19°01'31''	30°19'35''	44°41'02''	16°11'34''	16°22'52''
8	30°26'28''	50°11'35''	34°06'15''	23°01'21''	29°30'52''	34°33'02''	19°14'10''	30°20'15''	44°42'50''	16°13'28''	16°25'00''
9	31°27'37''	11°54'53''	34°03'04''	21°54'39''	30°46'21''	34°17'48''	19°26'54''	30°20'49''	44°44'41''	16°15'22''	16°27'08''
10	32°28'46''	24°45'04''	33°59'54''	20°56'09''	32°01'50''	34°01'50''	19°39'42''	30°21'16''	44°46'35''	16°17'18''	16°29'15''
11	33°29'55''	37°19'05''	33°56'43''	20°06'50''	33°17'20''	33°45'09''	19°52'34''	30°21'37''	44°48'31''	16°19'15''	16°31'22''
12	34°31'05''	49°39'41''	33°53'32''	19°27'13''	34°32'49''	33°27'45''	20°05'30''	30°21'51''	44°50'30''	16°21'14''	16°33'28''
13	35°32'14''	10°23'42''	33°50'22''	18°57'28''	35°48'17''	33°09'41''	20°18'31''	30°21'59''	44°52'32''	16°23'13''	16°35'33''
14	36°33'22''	22°24'53''	33°47'11''	18°37'27''	37°03'46''	32°50'58''	20°31'35''	30°22'00''	44°54'36''	16°25'13''	16°37'38''
15	37°34'31''	34°19'40''	33°44'01''	18°26'49''	38°19'14''	32°31'37''	20°44'44''	30°21'55''	44°56'43''	16°27'15''	16°39'43''
16	38°35'39''	46°10'02''	33°40'50''	18°25'04''	39°34'42''	32°11'40''	20°57'56''	30°21'43''	44°58'52''	16°29'17''	16°41'46''
17	39°36'46''	6°32'18''	33°37'39''	18°31'36''	40°50'10''	31°51'10''	21°11'11''	30°21'24''	45°01'03''	16°31'20''	16°43'49''
18	40°37'53''	18°20'07''	33°34'29''	18°45'49''	42°05'37''	31°30'09''	21°24'30''	30°20'58''	45°03'17''	16°33'24''	16°45'52''
19	41°38'59''	30°10'14''	33°31'18''	19°07'03''	43°21'03''	31°08'38''	21°37'53''	30°20'27''	45°05'33''	16°35'29''	16°47'53''
20	42°40'04''	42°05'32''	33°28'07''	19°34'42''	44°36'29''	30°46'41''	21°51'19''	30°19'48''	45°07'51''	16°37'35''	16°49'54''
21	43°41'09''	2°43'38''	33°24'57''	20°08'10''	45°51'54''	30°24'19''	22°04'48''	30°19'03''	45°10'12''	16°39'41''	16°51'54''
22	44°42'13''	14°59'04''	33°21'46''	20°46'55''	47°07'19''	30°01'36''	22°18'20''	30°18'12''	45°12'35''	16°41'48''	16°53'53''
23	45°43'15''	27°31'50''	33°18'36''	21°30'26''	48°22'43''	29°38'33''	22°31'56''	30°17'14''	45°14'59''	16°43'56''	16°55'51''
24	46°44'17''	40°24'07''	33°15'25''	22°18'15''	49°38'07''	29°15'14''	22°45'34''	30°16'10''	45°17'27''	16°46'05''	16°57'48''
25	47°45'18''	2°14'21''	33°12'14''	23°09'58''	50°53'30''	28°51'41''	22°59'15''	30°14'59''	45°19'57''	16°48'15''	16°59'45''
26	48°46'18''	15°56'33''	33°09'04''	24°05'12''	0°43'10''	28°27'57''	23°12'59''	30°13'43''	45°22'28''	16°50'25''	17°01'40''
27	49°47'16''	30°05'53''	33°05'53''	25°03'37''	1°58'31''	28°04'05''	23°26'46''	30°12'21''	45°25'02''	16°52'36''	17°03'35''
28	50°48'14''	44°41'00''	33°02'42''	26°04'56''	3°13'52''	27°40'07''	23°40'36''	30°10'52''	45°27'38''	16°54'48''	17°05'29''
29	0°23'28''	8°11'57''	32°59'32''	27°08'52''	4°29'13''	27°16'06''	23°54'28''	30°09'17''	45°30'15''	16°56'59''	17°07'22''
30	1°24'23''	23°29'04''	32°56'21''	28°15'13''	5°44'32''	26°52'05''	24°08'22''	30°07'35''	45°32'55''	16°59'12''	17°09'13''
31	2°25'18''	38°39'17''	32°53'11''	29°23'45''	6°59'51''	26°28'07''	24°22'19''	30°05'48''	45°35'37''	17°01'25''	17°11'04''

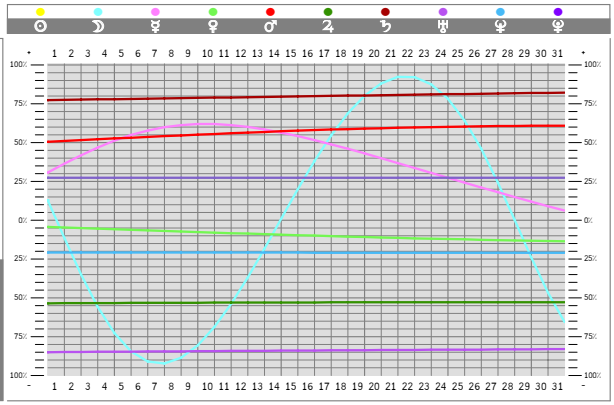
Geocentric Longitudes — 7th Harmonic


Geocentric Longitudes — 51428571° Graphic Ephemeris


KHALDEA*Ephemeris7z* JANUARY 2010

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇
1		0N43'23''	1N38'07''	0S26'12''	3N45'27''	0S56'05''	2N17'16''	0S44'46''	0S25'06''	5N05'57''
2		0S40'06''	1 56'53''	0 28'28''	3 47'53''	0 56'02''	2 17'33''	0 44'44''	0 25'06''	5 05'52''
3		2 00'42''	2 14'33''	0 30'43''	3 50'18''	0 55'59''	2 17'50''	0 44'42''	0 25'06''	5 05'48''
4		3 12'14''	2 30'41''	0 32'56''	3 52'41''	0 55'56''	2 18'08''	0 44'39''	0 25'06''	5 05'44''
5		4 09'51''	2 44'51''	0 35'08''	3 55'02''	0 55'53''	2 18'25''	0 44'37''	0 25'06''	5 05'39''
6		4 50'32''	2 56'47''	0 37'19''	3 57'21''	0 55'51''	2 18'42''	0 44'35''	0 25'06''	5 05'36''
7		5 12'59''	3 06'15''	0 39'27''	3 59'37''	0 55'48''	2 18'59''	0 44'33''	0 25'06''	5 05'32''
8		5 17'24''	3 13'12''	0 41'34''	4 01'51''	0 55'46''	2 19'17''	0 44'31''	0 25'06''	5 05'28''
9		5 04'54''	3 17'38''	0 43'39''	4 04'02''	0 55'44''	2 19'34''	0 44'28''	0 25'06''	5 05'25''
10		4 37'20''	3 19'42''	0 45'42''	4 06'09''	0 55'42''	2 19'51''	0 44'26''	0 25'06''	5 05'21''
11		3 56'53''	3 19'34''	0 47'43''	4 08'13''	0 55'39''	2 20'08''	0 44'24''	0 25'07''	5 05'18''
12		3 06'04''	3 17'29''	0 49'41''	4 10'14''	0 55'37''	2 20'25''	0 44'22''	0 25'07''	5 05'15''
13		2 07'29''	3 13'42''	0 51'38''	4 12'10''	0 55'36''	2 20'43''	0 44'20''	0 25'07''	5 05'12''
14		1 03'53''	3 08'28''	0 53'32''	4 14'02''	0 55'34''	2 20'59''	0 44'18''	0 25'07''	5 05'10''
15		0N01'57''	3 02'01''	0 55'23''	4 15'50''	0 55'32''	2 21'17''	0 44'16''	0 25'07''	5 05'07''
16		1 07'17''	2 54'35''	0 57'13''	4 17'33''	0 55'30''	2 21'34''	0 44'14''	0 25'08''	5 05'05''
17		2 09'29''	2 46'21''	0 58'59''	4 19'11''	0 55'29''	2 21'51''	0 44'12''	0 25'08''	5 05'03''
18		3 06'06''	2 37'29''	1 00'43''	4 20'44''	0 55'28''	2 22'08''	0 44'10''	0 25'08''	5 05'01''
19		3 54'53''	2 28'08''	1 02'25''	4 22'12''	0 55'26''	2 22'25''	0 44'08''	0 25'08''	5 04'59''
20		4 33'52''	2 18'26''	1 04'03''	4 23'34''	0 55'25''	2 22'42''	0 44'06''	0 25'08''	5 04'57''
21		5 01'15''	2 08'29''	1 05'39''	4 24'50''	0 55'24''	2 22'59''	0 44'04''	0 25'09''	5 04'55''
22		5 15'28''	1 58'21''	1 07'12''	4 25'59''	0 55'23''	2 23'16''	0 44'02''	0 25'09''	5 04'54''
23		5 15'10''	1 48'08''	1 08'42''	4 27'04''	0 55'22''	2 23'32''	0 44'00''	0 25'09''	5 04'53''
24		4 59'19''	1 37'52''	1 10'09''	4 28'01''	0 55'21''	2 23'49''	0 43'59''	0 25'10''	5 04'51''
25		4 27'18''	1 27'38''	1 11'33''	4 28'53''	0 55'21''	2 24'05''	0 43'57''	0 25'10''	5 04'50''
26		3 39'17''	1 17'27''	1 12'54''	4 29'38''	0 55'20''	2 24'22''	0 43'55''	0 25'10''	5 04'50''
27		2 36'35''	1 07'21''	1 14'12''	4 30'16''	0 55'20''	2 24'38''	0 43'53''	0 25'11''	5 04'49''
28		1 22'01''	0 57'22''	1 15'26''	4 30'48''	0 55'19''	2 24'54''	0 43'52''	0 25'11''	5 04'48''
29		0 00'10''	0 47'32''	1 16'37''	4 31'13''	0 55'19''	2 25'10''	0 43'50''	0 25'11''	5 04'48''
30		1S22'53''	0 37'52''	1 17'45''	4 31'31''	0 55'19''	2 25'26''	0 43'48''	0 25'12''	5 04'47''
31		2 40'23''	0 28'23''	1 18'49''	4 31'43''	0 55'19''	2 25'42''	0 43'47''	0 25'12''	5 04'47''

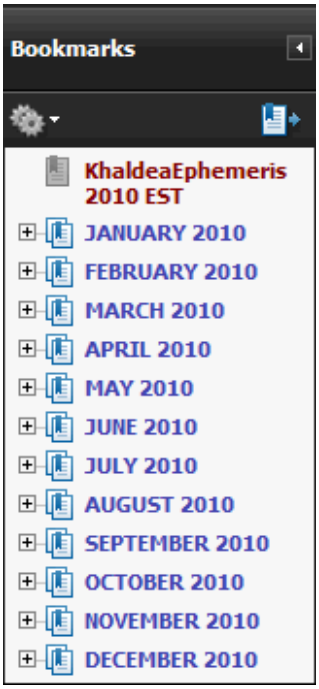
Geocentric Latitudes — Greenwich Mean Time - 000 (UT)


Geocentric Latitudes — Greenwich Mean Time - 000 (UT)

The listings and graphics included on ***coordinates*** pages are similar to those for the harmonics. There are, however, two fundamental differences between the listings and graphics provided for the harmonics and those showing coordinates.

Firstly, the tabular listings show the actual position of the planets according to the particular coordinate. Secondly, coordinate graphics vary somewhat from harmonic graphics, and from one other. The graphics for declination, latitude and speed show plus (north or direction motion) and minus (retrograde motion or south) values. Additionally, while the declination graphic uses positional values, latitude, speed, and heliocentric distance graphics are based on percent values, which are more useful and visually appropriate.

Referring to the geocentric latitude graphic shown at left, one can immediately see that the Moon was at maximum south latitude around midnight on the 8th of the month, and at maximum north latitude on the 22nd of the month, while the Moon crossed into north latitude near midnight of the 15th. The ephemeris graphics are highly accurate, especially when printed in high-resolution. *Use the lower and right edges of the planets' lines for greatest precision*.

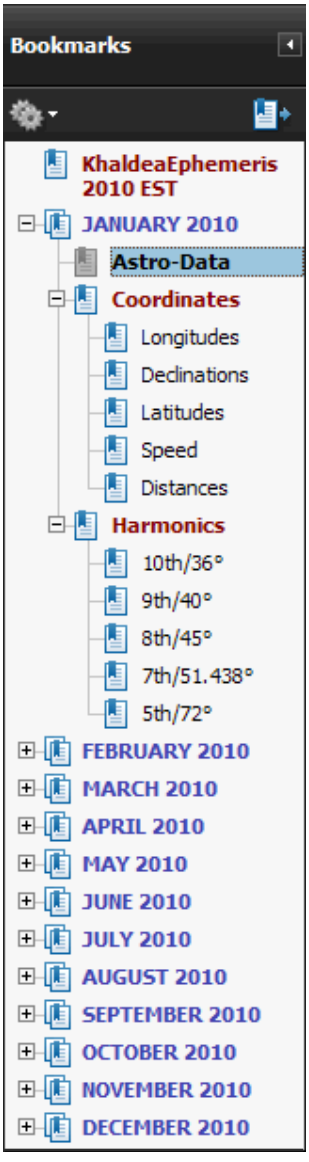


Using Adobe Reader to View and Print the Ephemeris

Khaldea*Ephemeris7z* is an electronic publication in Adobe PDF format. Adobe Reader is required to read and print the ephemeris. We recommend Adobe Reader Version 9 or higher.

Viewing the Ephemeris and Using Bookmarks

Khaldea*Ephemeris7z* is fully bookmarked, which makes it easy to jump to any of its many pages (annual editions are 180 pages). Clicking the Bookmark icon at the upper-left of Adobe Reader opens the bookmark tree (see left graphic). Mouse-clicking on any of the twelve bookmark links opens the particular month. Double-clicking on a month's link, or clicking on the [+] icon, expands the bookmarks (below).



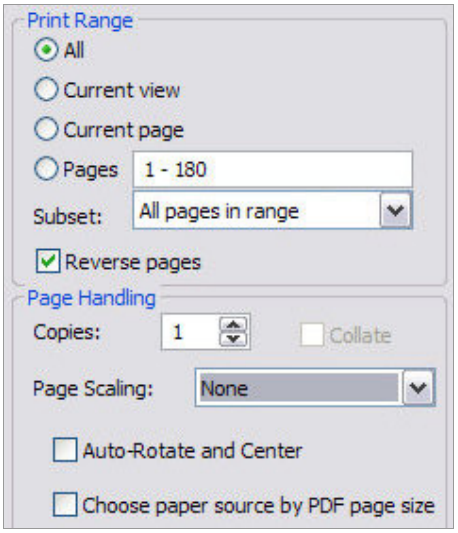
With **bookmarks extended**, the user can easily navigate to the many pages comprising **Khaldea*Ephemeris7z***. It should be noted that the Astro-Data bookmark opens the extended version of Astro-Data and aspects. The short Astro-Data version appears on the page preceding the longer version.

Adobe Reader also provides alternate methods of navigation, such as clicking the up and down arrows, and direct page number entry. The vertical scroll bar can also be used for navigation, but it should be used with care because attempting to scroll great distances, such as moving in a single stroke from the front of the ephemeris to its last pages, may overload Adobe Reader. If Reader crashes while using **Khaldea*Ephemeris7z***, it indicates you are scrolling to quickly, or clicking the up or down buttons too rapidly.

Bookmarks may be retracted by mouse-clicking on the appropriate [-] icon.

Printing the Ephemeris

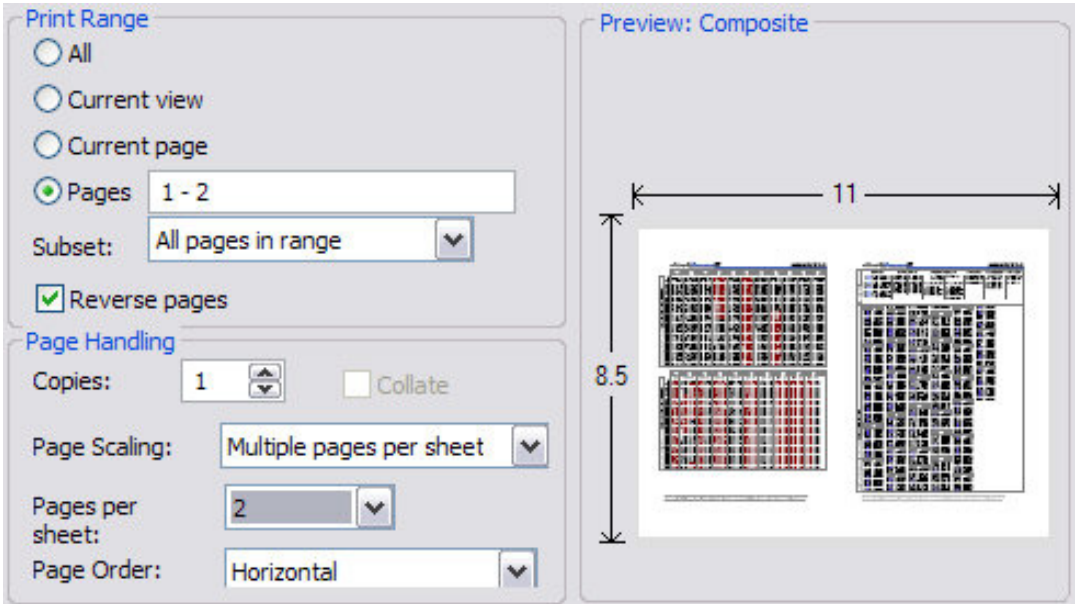
The ephemeris pages are fully scalable, both for onscreen viewing and for printing. The savvy user will discover that the ephemeris pages can be reduced considerably, as well as enlarged. You may print hard copies for your ***personal use only***. Distribution of **Khaldea*Ephemeris7z*** prints, screen images, data, fonts or other output, either for sale or freely given, is strictly prohibited, constituting a violation of U.S. and International Copyright.



Using the Print Dialog

For general use, the “Page Scaling” setting in the print dialog is most useful. A page scaling setting of “None” usually works well for standard letter-size paper. If the image appears too large, or if part of the image is clipped, use the “Fit to Printable Area” or “Shrink to Printable Area” settings. If the image appears too small, change the page setting to “None“

The “Multiple pages per sheet” page scaling setting prints reduced pages, two on a sheet. Setting a page range to include only the first two pages of a month produces a handy sheet comprising a monthly listing of the planets’ longitudes, latitudes and declination, plus the one-page version of the Astro-Data and Aspectarian (below).



Concluding Remarks

The ephemeris and this guide does not include instructions on how to use your printer and Adobe Reader. If you are unfamiliar with Acrobat Reader, refer to its help system and documentation.

Sidereal Time and Julian Day are not included. Sidereal Time isn't needed by the end user in the digital age, and many Julian Day calculators are available online.

Maximum elongations of Venus and Mercury are computed along the ecliptic; the planet's latitude is not factored. Times given for soli-lunar conjunctions and oppositions showing eclipse glyphs are for the exact aspect only, the eclipse generally occurs a few minutes prior to or after the aspect, otherwise our eclipse data is in agreement with NASA.

Notably, the ephemeris does not include listings for the oscillating (the so-called "true") lunar node, or for any of the vast number of solar system asteroids and minor objects. The introduction of spurious objects and oscillating abstractions into astrological practice is relatively recent, and easy access to data pertaining to them has been made possible only with the aid of computer technology. The result is a persistent increase of data accompanied by a corresponding shallowing of fundamental understanding. Indeed, since the 1970s each new asteroid, minor object or oscillating abstraction inducted into astrological service has been given the weight of a planet by its promoters, and welcomed as a powerful new tool by data hungry practitioners. It didn't take long before astrological fundamentals were replaced by fragments and hypotheticals.

Asteroids are not included in the astrological solar system model implement by Khaldea*Technology* principally because they are fragments, not natural wholes; but also because objects constituting solar system debris do not reflect *conditioned* light. Additionally, the so-called "true" lunar node — which is actually no more "true" than the "mean" node — is not listed. It makes little sense to take an abstraction, such as a lunar node, and attempt to treat it as if it were an actual celestial object with oscillating orbital elements.

Visit **khaldea.com/ephemeris** to purchase KHALDEA*Ephemeris7z*

KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — Greenwich Mean Time - 0:00 (UT)

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	8♐55'16"	21♉29'54"	23♑15'33"	22♐57'49"	28♏50'41"	17♌23'40"	20♒54'34"	2♎59'05"	22♑42'17"	23♒53'09"	2♑12'06"
2	9 56'04	5♊44'20	23 12'22	24 27'56	0♐06'06	17 36'44	21 03'19	3 03'26	22 42'16	23 54'03	2 14'08
3	10 56'52	20 14'17	23 09'12	25 57'41	1 21'32	17 49'14	21 12'12	3 07'42	22 42'18	23 54'59	2 16'12
4	11 57'42	4♋53'12	23 06'01	27 27'01	2 36'58	18 01'09	21 21'12	3 11'53	22 42'23	23 55'57	2 18'16
5	12 58'34	19 34'09	23 02'50	28 55'54	3 52'25	18 12'28	21 30'21	3 15'58	22 42'31	23 56'57	2 20'20
6	13 59'26	4♌10'53	22 59'40	0♑24'13	5 07'52	18 23'10	21 39'38	3 19'59	22 42'43	23 57'59	2 22'26
7	15 00'20	18 38'32	22 56'29	1 51'54	6 23'20	18 33'15	21 49'02	3 23'53	22 42'57	23 59'03	2 24'31
8	16 01'15	2♍53'50	22 53'19	3 18'49	7 38'48	18 42'41	21 58'34	3 27'43	22 43'14	24 00'08	2 26'38
9	17 02'11	16 55'02	22 50'08	4 44'52	8 54'17	18 51'28	22 08'14	3 31'27	22 43'34	24 01'15	2 28'44
10	18 03'08	0♎41'32	22 46'57	6 09'52	10 09'46	18 59'36	22 18'01	3 35'06	22 43'58	24 02'25	2 30'51
11	19 04'07	14 13'26	22 43'47	7 33'40	11 25'15	19 07'02	22 27'56	3 38'39	22 44'24	24 03'36	2 32'59
12	20 05'07	27 31'12	22 40'36	8 56'02	12 40'45	19 13'47	22 37'58	3 42'06	22 44'54	24 04'48	2 35'07
13	21 06'08	10♏35'18	22 37'25	10 16'43	13 56'15	19 19'50	22 48'07	3 45'28	22 45'26	24 06'03	2 37'16
14	22 07'10	23 26'12	22 34'15	11 35'27	15 11'46	19 25'10	22 58'24	3 48'44	22 46'02	24 07'19	2 39'25
15	23 08'12	6♐04'20	22 31'04	12 51'53	16 27'17	19 29'47	23 08'47	3 51'54	22 46'41	24 08'38	2 41'34
16	24 09'16	18 30'14	22 27'54	14 05'38	17 42'48	19 33'39	23 19'18	3 54'59	22 47'23	24 09'58	2 43'44
17	25 10'21	0♑44'41	22 24'43	15 16'16	18 58'19	19 36'47	23 29'55	3 57'58	22 48'09	24 11'19	2 45'53
18	26 11'26	12 48'55	22 21'32	16 23'16	20 13'50	19 39'09	23 40'39	4 00'50	22 48'57	24 12'43	2 48'04
19	27 12'31	24 44'40	22 18'22	17 26'04	21 29'22	19 40'46	23 51'30	4 03'37	22 49'48	24 14'08	2 50'14
20	28 13'37	6♒34'25	22 15'11	18 24'01	22 44'53	19 41'35	24 02'27	4 06'18	22 50'42	24 15'35	2 52'24
21	29 14'44	18 21'13	22 12'00	19 16'25	24 00'24	19 41'38	24 13'30	4 08'53	22 51'40	24 17'03	2 54'35
22	0♑15'50	0♓08'50	22 08'50	20 02'27	25 15'55	19 40'54	24 24'39	4 11'21	22 52'40	24 18'33	2 56'46
23	1 16'57	12 01'33	22 05'39	20 41'18	26 31'27	19 39'21	24 35'55	4 13'43	22 53'43	24 20'04	2 58'56
24	2 18'04	24 04'04	22 02'29	21 12'03	27 46'57	19 37'01	24 47'16	4 15'59	22 54'49	24 21'37	3 01'07
25	3 19'12	6♈21'11	21 59'18	21 33'48	29 02'28	19 33'52	24 58'44	4 18'09	22 55'58	24 23'12	3 03'18
26	4 20'19	18 57'38	21 56'07	21 45'41	0♑17'59	19 29'55	25 10'17	4 20'13	22 57'10	24 24'48	3 05'29
27	5 21'26	1♉57'27	21 52'57	21 46'52	1 33'29	19 25'08	25 21'56	4 22'10	22 58'25	24 26'25	3 07'39
28	6 22'34	15 23'30	21 49'46	21 36'43	2 48'59	19 19'33	25 33'40	4 24'02	22 59'43	24 28'04	3 09'50
29	7 23'41	29 16'53	21 46'35	21 14'48	4 04'30	19 13'09	25 45'30	4 25'47	23 01'04	24 29'45	3 12'01
30	8 24'49	13♊36'16	21 43'25	20 41'03	5 20'00	19 05'56	25 57'26	4 27'25	23 02'28	24 31'27	3 14'11
31	9 25'56	28 17'42	21 40'14	19 55'45	6 35'30	18 57'54	26 09'26	4 28'58	23 03'55	24 33'11	3 16'22

Declinations & Latitudes — Greenwich Mean Time - 0:00 (UT)

	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇	
	Decl	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat	Decl	Lat
1	21S47	22N28	4N29	25S24	2S09	19S09	0N46	17N59	2N29	15S27	0S58	0N47	2N09	3S36	0S46	13S57	0S25	18S16	5N10
2	21 56	24 55	3 43	25 31	2 12	19 27	0 44	17 57	2 31	15 24	0 58	0 46	2 09	3 36	0 46	13 57	0 25	18 16	5 09
3	22 05	25 46	2 42	25 37	2 15	19 45	0 42	17 56	2 34	15 21	0 58	0 44	2 09	3 36	0 46	13 57	0 25	18 16	5 09
4	22 13	24 50	1 30	25 41	2 17	20 02	0 40	17 54	2 36	15 18	0 58	0 43	2 10	3 36	0 46	13 56	0 25	18 16	5 09
5	22 21	22 12	0 11	25 44	2 18	20 19	0 38	17 53	2 38	15 15	0 58	0 41	2 10	3 36	0 46	13 56	0 25	18 16	5 09
6	22 29	18 06	1S08	25 46	2 20	20 35	0 35	17 52	2 41	15 12	0 58	0 40	2 10	3 36	0 46	13 56	0 25	18 16	5 09
7	22 36	12 59	2 22	25 46	2 20	20 50	0 33	17 51	2 43	15 09	0 58	0 39	2 10	3 35	0 46	13 55	0 25	18 16	5 09
8	22 42	7 14	3 26	25 44	2 21	21 05	0 31	17 50	2 45	15 06	0 58	0 37	2 11	3 35	0 46	13 55	0 25	18 16	5 09
9	22 48	1 13	4 17	25 42	2 20	21 19	0 28	17 50	2 48	15 02	0 58	0 36	2 11	3 35	0 46	13 55	0 25	18 17	5 08
10	22 54	4S44	4 52	25 37	2 20	21 33	0 26	17 49	2 50	14 59	0 58	0 35	2 11	3 35	0 46	13 54	0 25	18 17	5 08
11	22 59	10 22	5 10	25 31	2 18	21 45	0 24	17 49	2 53	14 56	0 57	0 34	2 11	3 35	0 46	13 54	0 25	18 17	5 08
12	23 04	15 25	5 11	25 24	2 16	21 58	0 21	17 49	2 55	14 52	0 57	0 33	2 12	3 35	0 46	13 53	0 25	18 17	5 08
13	23 08	19 40	4 55	25 16	2 14	22 09	0 19	17 50	2 57	14 49	0 57	0 32	2 12	3 34	0 46	13 53	0 25	18 17	5 08
14	23 12	22 55	4 25	25 06	2 10	22 20	0 17	17 51	2 60	14 46	0 57	0 30	2 12	3 34	0 45	13 53	0 25	18 17	5 08
15	23 16	24 58	3 43	24 55	2 06	22 31	0 14	17 51	3 02	14 42	0 57	0 29	2 13	3 34	0 45	13 52	0 25	18 17	5 08
16	23 19	25 46	2 50	24 42	2 01	22 40	0 12	17 53	3 05	14 39	0 57	0 28	2 13	3 33	0 45	13 52	0 25	18 17	5 08
17	23 21	25 16	1 50	24 29	1 55	22 49	0 09	17 54	3 07	14 35	0 57	0 28	2 13	3 33	0 45	13 51	0 25	18 17	5 07
18	23 23	23 35	0 46	24 14	1 49	22 58	0 07	17 56	3 10	14 31	0 57	0 27	2 13	3 33	0 45	13 51	0 25	18 17	5 07
19	23 25	20 51	0N20	23 58	1 41	23 05	0 05	17 58	3 13	14 28	0 57	0 26	2 14	3 32	0 45	13 50	0 25	18 17	5 07
20	23 26	17 16	1 24	23 42	1 32	23 12	0 02	17 60	3 15	14 24	0 57	0 25	2 14	3 32	0 45	13 50	0 25	18 17	5 07
21	23 26	13 02	2 25	23 24	1 22	23 18	0S00	18 02	3 18	14 20	0 57	0 24	2 14	3 32	0 45	13 49	0 25	18 18	5 07
22	23 26	8 19	3 19	23 07	1 11	23 24	0 03	18 05	3 20	14 17	0 57	0 24	2 14	3 31	0 45	13 49	0 25	18 18	5 07
23	23 26	3 16	4 06	22 49	0 59	23 29	0 05	18 08	3 23	14 13	0 57	0 23	2 15	3 31	0 45	13 48	0 25	18 18	5 07
24	23 25	1N57	4 42	22 31	0 45	23 33	0 07	18 11	3 25	14 09	0 57	0 22	2 15	3 30	0 45	13 48	0 25	18 18	5 07
25	23 24	7 12	5 06	22 13	0 30	23 36	0 10	18 14	3 28	14 05	0 56	0 22	2 15	3 30	0 45	13 47	0 25	18 18	5 07
26	23 22	12 18	5 16	21 55	0 14	23 38	0 12	18 18	3 30	14 01	0 56	0 21	2 16	3 29	0 45	13 47	0 25	18 18	5 06
27	23 20	17 01	5 11	21 38	0N03	23 40	0 15	18 22	3 33	13 57	0 56	0 21	2 16	3 29	0 45	13 46	0 25	18 18	5 06
28	23 17	21 03	4 49	21 22	0 21	23 41	0 17	18 26	3 35	13 53	0 56	0 20	2 16	3 28	0 45	13 46	0 25	18 18	5 06
29	23 14	24 03	4 09	21 06	0 40	23 42	0 19	18 30	3 38	13 49	0 56	0 20	2 16	3 28	0 45	13 45	0 25	18 18	5 06
30	23 10	25 38	3 13	20 52	0 59	23 41	0 22	18 35	3 40	13 45	0 56	0 19	2 17	3 27	0 45	13 44	0 25	18 18	5 06
31	23 06	25 29	2 03	20 40	1 19	23 40	0 24	18 40	3 43	13 41	0 56	0 19	2 17	3 26	0 45	13 44	0 25	18 18	5 06

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Highlights

Lunations

2	7:30	10♊15.1′
5	14:49	28♋36.1′
9	0:13	17♌02.7′
12	15:01	5♌43.3′
16	12:02	24♐39.9′
20	14:50	13♑51.4′
24	17:36	3♈02.9′
28	11:16	21♉51.2′
31	19:13	10♋14.9′

Lunar Ingresses

1	14:23	♊
3	16:01	♋
5	17:07	♌
7	19:05	♍
9	22:47	♎
12	4:31	♏
14	12:25	♐
16	22:32	♑
19	10:39	♒
21	23:42	♓
24	11:40	♈
26	20:26	♉
29	1:13	♊
31	2:45	♋

Perigees & Apogees

p	4	14:18

LunarDecl Max/0

2	23:36	25N46
9	4:51	0S
16	2:37	25S46
23	15:03	0N
30	10:06	25N47

a	20	14:53

LunarLat Max/0

5	3:17	0S
11	13:11	5S13
18	16:41	0N
26	4:14	5N17

Phenomena

1	20:27	♅ SD
20	13:26	♂ SR℞
21	17:47	☉ ♑

Mercury Cycle

5	17:24	♑
6	12:32	Dv
8	2:59	Lv
12	8:20	♐
18	20:58	♑
26	14:38	SR℞
26	20:09	L♓
31	11:59	P

Venus Cycle

1	22:04	♐
20	22:01	L♌
25	18:17	♑
29	0:09	Dv

Daily Aspectarian & AstroData

Greenwich Mean Time (UT)

1

☿ ☋♄	0:21:18
☽ ⚺♅	2:03:17
☽ ☌♅	2:47:33
☽ □♆	4:03:57
☽ ☍♀	13:38:57
☽ ♊	14:23:24
☿ ⚺♆	14:52:22
☽ ☌♆	18:07:44
☽ △♄	19:29:47
♅ SD	20:26:58
☉ ♐♅	21:56:25
♀ ♐	22:03:36

2

☉ ☍☽	7:30:26
♀ ♂♂	8:26:31
☽ ♯☿	12:18:11
☽ ⚺♂	19:57:51
♀ ☋♃	20:37:51
☽ D^	23:36:08

3

☽ △♃	1:36:11
☽ □♅	4:03:14
☽ △♆	6:02:55
☽ ♯☿	8:33:46
☽ ☍☿	10:27:37
☽ ♋	16:00:33
♀ ∠♆	17:52:55
☽ ☍♇	19:46:07
☽ ☌♀	19:56:26
☽ L♂	20:54:23
☽ □♄	21:13:36
☉ ☆♆	23:17:50

4

☽ ☍♃	2:25:20
☽ ☍♆	6:37:07
♀ ⚺♄	11:44:49
☉ ☌☽	12:25:06
☽ P	14:17:59
☽ ∠♂	21:44:39
☽ ☍♀	22:45:18
☉ ♯☽	22:53:28

5

♀ ☋♆	1:27:50
☽ ☌♃	3:12:17
☽ L♇	3:16:48
☽ △♅	5:08:34
☽ ☌♆	7:11:01
☽ ♯♀	11:14:25
♂ L♄	12:18:33
☉ ☍☽	14:48:48
♀ ♊♅	15:58:37
☽ ☌☿	17:04:45
☽ ♌	17:06:42
☿ ♈	17:24:14
☿ ☌♃	20:51:38
☽ ☌♆	21:00:45
☽ ⚺♄	22:35:39
☽ ♯♇	23:09:25

6

☽ ☊♂	1:15:36
☽ △♀	1:42:56
☽ ☍♅	5:49:59
☿ Dv	12:31:56
☽ ♯♃	14:13:30
☉ △☽	17:28:31
☽ ♯♆	19:51:22
☽ ☍☿	20:41:56
☽ ☍♇	21:56:07
☽ L♄	23:35:25
☽ ☌♂	23:51:04

7

♀ ♊♂	3:37:16
☽ ☍♃	5:22:22
☽ ☌♅	6:49:20
☽ ☍♆	8:57:39
☿ ☌♇	9:12:19
☉ ☆♄	9:54:39
☿ ♐♆	11:33:26
☿ ☋♅	14:06:50
☽ ♏	19:05:27
☽ △♇	23:13:43

8

☽ △☿	0:47:14
☽ ∠♄	0:57:47
☿ □♄	2:34:59
☿ Lv	2:59:03
☿ ☍♂	7:24:22
☽ □♇	8:52:42
☽ ♯♅	14:34:13

9

☉ □☽	0:13:19
☽ ☊♄	2:26:57
☽ ∠♂	3:23:23
☽ D♇	4:50:32
☽ ♯♄	7:13:26
☽ ☌♃	9:09:08
☽ ☍♅	10:04:24
☽ ☌♆	12:20:25
♀ ♐♅	18:29:35
☽ ☊♅	19:16:02
☽ ♎	22:47:01

10

♀ ☆♃	3:01:16
☽ □♆	3:12:55
☽ ☌♄	5:07:02
☽ L♂	5:52:15
☽ □☿	10:46:09
☽ ☍♃	11:48:38
☽ ☍♆	14:46:37
☽ ⚺♀	18:28:38
☿ L♃	22:07:18

11

☉ △♂	1:18:03
☽ ⚺♂	8:51:41
☉ ⚺☽	9:24:53
♀ ☆♆	12:23:11
☽ Lv	13:10:55
☽ △♃	15:00:57
☽ ☌♅	15:19:59
☽ ☊♇	16:22:44
☽ △♆	17:44:28
☽ ☊♃	21:16:01

12

☽ L♀	0:19:14
☿ L♆	2:37:31
☽ ♏	4:31:23
☿ ✧	8:20:25
☽ ⚺♆	9:16:45
☽ ∠♄	11:21:02
☽ ♯♂	12:57:18
☉ L☽	15:00:50
☽ ☊♇	15:34:09
♃ ∠♅	17:19:25
☽ ☍♅	18:45:44
☽ ⚺☿	23:21:40

13

☽ ∠♀	6:53:23
☿ ☆♅	8:44:46
☽ L♆	13:07:24
☽ L♄	15:16:43
☽ □♂	16:24:09
☽ ☊♀	18:47:59
☉ ∠☽	21:18:21
☽ △♅	22:44:19
☽ □♃	23:06:55

14

☽ □♆	1:17:38
☉ ☊☽	2:47:03
☽ L♀	6:37:37
♀ ☆♄	12:16:10
☽ ♐	12:25:01
☉ □♅	15:26:51
☽ ∠♆	17:31:25
☽ ⚺♄	19:45:41
☽ ☊☿	23:06:09

15

☉ ⚺♃	0:16:33
☿ ☋♃	6:18:22
☿ ☆♂	12:55:31
☽ ∠☿	14:30:49
☉ ☋♄	18:05:28
☽ ☌♀	22:17:15

16

☉ ⚺♆	0:16:40
☿ ☋♆	1:27:55
☽ △♂	2:04:04
☽ Dv	2:37:18
☽ □♅	8:22:14
☽ ⚺♃	9:32:25
☽ ⚺♆	11:04:38
☉ ☌☽	12:02:04
♆ ♐♆	15:28:59
☽ ♌	22:31:46

17

☽ ☌♆	4:00:22
☽ □♄	6:23:58
☽ ☍♂	7:41:05
♀ △♂	12:39:07
☽ ☊☿	15:17:21
☽ L♃	15:36:46
☽ L♆	16:47:20

18

☉ ☊☽	2:01:20
☽ ☊♀	5:55:35
☽ ☌☿	7:52:00
☿ ♐♄	11:22:33
☽ ☍♂	13:45:35
♅ ☋♆	16:02:12
☽ ∠♀	16:38:59
☽ L♇	16:41:04
☽ ⚺♅	20:07:39
☿ ☯	20:58:07
☽ ∠♃	22:10:51
☽ ∠♆	22:58:08

19

☉ ∠☽	5:27:16
☽ ♒	10:38:36
☿ ♊♃	12:38:36
☽ ∠♆	16:27:13
☽ ☊♆	17:38:03
☽ △♄	18:57:39
☽ ♯♂	19:33:14
☿ ♊♆	20:15:51

20

♀ □♅	1:52:22
☽ L♅	2:35:29
☽ L♇	2:40:34
♂ SR℞	13:26:12
☽ L☽	14:50:01
☽ A	14:53:25
☽ ☊♃	16:49:03
☽ ☊♆	19:44:16
☉ ☊☿	21:35:10
♀ L♇	22:00:57
☽ L♆	23:05:33

21

☽ ☍♄	1:37:28
☽ ∠☿	2:00:53
☽ ☌♂	2:43:48
♀ ☋♄	2:47:05
♀ ⚺♃	4:52:45
♀ ⚺♆	5:23:43
☿ ☊♀	6:11:59
♃ ☌♆	8:50:33
☽ ∠♅	9:11:46
☽ ☌♆	12:06:22
☽ ☌♃	12:09:05
☿ ☐♂	12:33:24
☽ ⚺♀	12:53:32
☉ ♌	17:46:46
♃ ♐♆	18:11:47
☽ ☽	23:42:04

22

☉ ⚺☽	0:15:33
☽ ⚺♆	5:41:36
☽ ☐♄	8:13:16
☽ L☿	10:31:21
☉ ☊♀	11:23:16
☽ ☊♅	22:50:55

23

☽ ♯♄	13:20:12
☽ D♇	15:03:09
☽ ☐♂	15:12:32
☽ ☊♄	16:45:34
☽ ⚺☿	18:06:02
☽ ☌♅	21:42:54

24

☽ ∠♆	0:34:45
☽ ∠♃	1:26:40
☽ ♯♅	7:01:59
☽ □♀	8:09:14
☽ ♈	11:39:30
☉ ☋♅	14:42:16
☉ ♐♆	15:14:53
☉ ☌♆	17:31:40
☽ □♆	17:35:36
☉ □☽	17:35:57
☽ ☍♄	20:01:20
☽ ☍♂	20:33:26

25

☽ L♆	5:50:56
☉ ♐♃	6:41:18
☽ L♃	7:04:48
♀ ♌	18:17:06
♂ ♯♆	23:04:37
☉ □♄	23:57:37

26

☽ △♂	1:00:11
☉ ☍♂	3:30:51
☽ L^	4:14:03
☽ □☿	5:16:28
☽ ♯♆	7:15:04
☽ ∠♅	7:27:58
☽ ♯♃	8:20:13
☽ ⚺♆	10:11:04
☽ ⚺♃	11:44:26
☿ SR℞	14:38:01
☿ L♇	20:09:13
☽ ♉	20:26:06
☽ △♀	23:11:52

27

☽ △♆	2:07:44
☽ ☐♄	4:22:47
☉ △☽	6:39:35
☽ ♯♆	7:07:12
☽ ☊♂	7:37:32
♂ L♄	9:51:25
☽ L♅	10:51:56

28

☽ ♯☿	1:56:38
♀ ☋♅	3:28:16
♀ ♐♆	4:20:38
☽ ☍♀	4:40:30
☽ ☍♇	4:51:59
♀ ☌♆	6:49:12
☽ □♂	6:49:40
☽ ☍♄	7:01:23
☽ △☿	10:36:28
☉ ☍☽	11:15:50
☽ ⚺♅	13:15:23
☽ □♆	15:48:08
☉ ♯☽	16:29:49
☽ □♃	17:53:59
☽ ♯♀	20:31:13

29

♀ Dv	0:09:01
☽ ♊	1:13:16
♀ ☍♂	2:31:23
♀ ♐♃	5:46:07
☽ ☌☿	6:39:10
♀ □♄	6:55:02
☽ △♄	8:43:24
☽ ☌♀	8:53:39
☽ ☍☿	11:21:07
☉ ☌☽	14:43:22

30

♃ ☊♆	2:23:20
☽ ⚺♂	8:57:34
☽ D^	10:05:46
☽ ☌☿	11:05:56
☽ □♅	15:30:03
☽ △♆	17:55:22
☿ ♊♃	18:40:29
☽ △♃	20:29:27

31

☽ ♋	2:45:16
☉ L♆	2:55:27
☽ ☍♇	8:02:48
☽ L♂	9:03:13
☽ □♄	9:59:19
☿ P	11:58:35
☽ ☍♀	14:34:59
☽ ☍♆	18:08:09
☉ ☍☽	19:12:44
☽ ☍♃	20:56:50
☽ ♯♀	22:46:22

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Highlights

Lunations

2	7:30	10♊15.1′
5	14:49	28♋36.1′
9	0:13	17♌02.7′
12	15:01	5♍43.3′
16	12:02	24♐39.9′
20	14:50	13♑51.4′
24	17:36	3♈02.9′
28	11:16	21♉51.2′
31	19:13	10♋14.9′

Lunar Ingresses

1	14:23	♊	16	22:32	♑
3	16:01	♋	19	10:39	♒
5	17:07	♌	21	23:42	♓
7	19:05	♍	24	11:40	♈
9	22:47	♎	26	20:26	♉
12	4:31	♏	29	1:13	♊
14	12:25	♐	31	2:45	♋

Perigees & Apogees

p 4 14:18

LunarDecl Max/0		
2	23:36	25N46
9	4:51	0S
16	2:37	25S46
23	15:03	0N
30	10:06	25N47

a 20 14:53

LunarLat Max/0		
5	3:17	0S
11	13:11	5S13
18	16:41	0N
26	4:14	5N17

Phenomena

1	20:27	☿ SD
20	13:26	♂ SR℞
21	17:47	☉ ♑

Mercury Cycle

5	17:24	♑
6	12:32	Dv
8	2:59	Lv
12	8:20	☌
18	20:58	◓
26	14:38	SR℞
26	20:09	L♇
31	11:59	P

Venus Cycle

1	22:04	♐
20	22:01	L♇
25	18:17	♑
29	0:09	Dv

Daily Aspectarian & AstroData — Greenwich Mean Time (UT)

1 December Tuesday

22♐59′09″	☿☌♄	0:21:18	2♎59′09″
22♉42′17″	☽⚹♅	2:03:17	22♑42′17″
23♉08′19″	☽⚺☿	2:47:33	23♐08′19″
23♉53′18″	☽□♇	4:03:57	23♒53′18″
26♉12′47″	☽☍♆	8:00:16	2♑12′47″
27♉29′16″	☽☌♂	10:09:30	17♌29′16″
27♉55′57″	☽♐☿	10:54:32	23♐38′49″
29♉33′34″	☽⚻♇	13:38:57	29♏33′34″
	☽ ♊	14:23:24	
23♐53′42″	☿⚹♇	14:52:22	23♒53′42″
2♊13′38″	☽⚺♆	18:07:44	2♑13′38″
3♊02′38″	☽△♄	19:29:47	3♎02′38″
	♅ SD	20:26:58	22♑42′16″
3♊53′36″	☽♐⚳	20:55:06	21♒02′11″
4♊19′02″	☽☌☿	21:37:35	24♐19′02″
9♐50′50″	☉♐♅	21:56:25	22♑42′16″
	♀ ♐	22:03:36	
4♊42′16″	☽☍♅	22:16:25	22♑42′16″
5♊36′37″	☽☍♂	23:47:09	17♌36′37″

2 December Wednesday

6♊31′24″	☽♐♆	1:18:29	2♑14′15″
6♊45′32″	☽♐♇	1:42:03	23♒54′06″
9♊05′22″	☽⚻⚳	5:34:41	21♒05′22″
10♐15′05″	☉⚻☽	7:30:26	10♊15′05″
0♐32′38″	☿♐♂	8:26:31	17♌41′12″
11♊54′27″	☽⚻♆	10:15:11	23♒54′27″
12♊15′04″	☽☌♆	10:49:20	2♑15′04″
12♊42′17″	☽☌♅	11:34:23	22♑42′17″
25N34′23″	☽⚹☿	12:18:11	25S34′23″
15♊06′12″	☽⚻♄	15:32:20	3♎06′12″
17♊47′10″	☽⚹♂	19:57:51	17♌47′10″
1♐10′56″	☿☌⚳	20:37:51	21♒10′56″
25N46′20″	☽ D^	23:36:08	19♊59′47″

3 December Thursday

20♊16′17″	☽♐♄	0:03:17	3♎07′43″
21♊12′47″	☽△⚳	1:36:11	21♒12′47″
21♊27′52″	☽☌☿	2:00:57	1♐27′52″
22♊42′19″	☽□♅	4:03:14	22♑42′19″
23♊55′14″	☽△♆	6:02:55	23♒55′14″
25N38′40″	☽⚹☿	8:33:46	25S38′40″
26♊28′41″	☽♐♂	10:14:32	17♌54′24″
26♊36′40″	☽⚻☿	10:27:37	26♐36′40″
27♊42′57″	☽♐☿	12:16:12	2♐00′06″
	☽ ♋	16:00:33	
2♐17′44″	☿⚺♆	17:52:55	2♑17′44″
11♐44′41″	☉☌☽	18:51:48	1♋44′41″
2♋17′54″	☽⚻♆	19:46:07	2♑17′54″
2♋24′12″	☽☍☿	19:56:26	2♐24′12″
2♋59′39″	☽L♂	20:54:23	17♌59′39″
3♋11′24″	☽□♄	21:13:36	3♎11′24″
11♐55′55″	☉☆♆	23:17:50	23♒55′55″

4 December Friday

5♋33′49″	☽♐♅	1:06:24	22♑42′24″
6♋22′07″	☽♇⚳	2:25:20	21♒22′07″
12♐10′07″	☉♐☽	4:53:47	7♋52′59″
8♋03′39″	☽☌♂	5:11:13	18♌03′39″
8♋56′14″	☽♇♆	6:37:07	23♒56′14″
8♋57′55″	☽☆☿	6:39:53	2♐57′55″
10♋42′26″	☽♅♅	9:30:39	22♑42′26″
3♐13′54″	☿⚹♄	11:44:49	3♎13′54″
12♋06′48″	☽♅♂	11:48:30	18♌06′48″
12♐29′11″	☉♐♍	12:25:06	12♋29′11″
13♋14′13″	☽☌♄	13:38:41	3♎14′13″
0.0024	☽ P	14:17:59	13♋38′16″
15♋27′47″	☽☆⚳	17:16:59	21♒27′47″
17♋56′51″	☽☆♆	21:20:47	23♒56′51″
18♋11′26″	☽⚺♂	21:44:39	18♌11′26″
18♋48′30″	☽♇☿	22:45:18	3♐48′30″
18♋51′37″	☽☌☿	22:50:23	28♐51′37″
22N20′56″	☉♓☽	22:53:28	22S20′56″
12♐55′55″	☉☆☽	22:57:26	18♋55′55″

5 December Saturday

3♐57′01″	☿☌♆	1:27:50	23♒57′01″
21♋16′27″	☽☆♄	2:47:29	3♎16′27″
21♋31′35″	☽☍⚳	3:12:17	21♒31′35″
	☽L♇	3:16:48	21♋34′20″
22♋20′44″	☽☌♆	4:32:48	2♑20′44″
22♋42′34″	☽△♅	5:08:34	22♑42′34″
23♋57′16″	☽☍♆	7:11:01	23♒57′16″
25♋12′52″	☽☐☿	9:14:59	29♐30′00″
25♋51′28″	☽☐⚳	10:18:21	21♒34′19″
20N26′01″	☽⚻☿	11:14:25	20S26′01″
18♌18′02″	☿L♄	12:18:33	3♎18′02″
28♋04′25″	☽☐♆	13:56:40	2♑21′33″
28♋14′42″	☽☐♆	14:13:35	23♒57′34″
13♐36′08″	☉♇☽	14:48:48	28♋36′08″
4♐42′39″	☿⚷♅	15:58:37	22♑42′39″
29♋58′48″	☽☍☿	17:04:45	29♐58′48″
	☽ ♌	17:06:42	
	☿ ♑	17:24:14	
1♌38′00″	☽☌⚳	19:48:00	21♒38′00″
0♑12′42″	☿☐⚳	20:51:38	21♒38′25″
2♌22′10″	☽☍♆	21:00:45	2♑22′10″
3♌19′45″	☽⚹♄	22:35:39	3♎19′45″
18N16′11″	☽⚻♆	23:09:25	18S16′11″
3♌57′58″	☽☌♆	23:38:41	23♒57′58″

6 December Sunday

17N51′32″	☽♅♂	1:15:36	17N51′32″
5♌13′16″	☽△♆	1:42:56	5♐13′16″
6♌39′10″	☽☆☿	4:04:51	0♑39′10″
7♌42′46″	☽♇♅	5:49:59	22♑42′46″
8♌23′02″	☽☆♆	6:56:38	2♑23′02″
25S46′00″	☿ Dv	12:31:56	1♑10′05″
11♌56′22″	☽☐♄	12:50:15	3♎22′05″
15N10′01″	☽⚻⚳	14:13:30	15S10′01″
14♐43′46″	☉△☽	17:28:31	14♌43′46″
13N55′17″	☽⚻♆	19:51:22	13S55′17″
16♌39′53″	☽♇☿	20:41:56	1♑39′53″
16♌42′55″	☽☍♅	20:47:00	22♑42′55″
17♌24′21″	☽♇♆	21:56:07	2♑24′21″
18♌21′52″	☽⚻☿	23:32:10	6♐21′52″
18♌23′50″	☽L♄	23:35:25	3♎23′50″
18♌33′12″	☽☌♂	23:51:04	18♌33′12″

7 December Monday

6♐34′43″	☿⚻♂	3:37:16	18♌34′43″
21♌51′10″	☽☌⚳	5:22:22	21♒51′10″
22♌43′02″	☽☍♅	6:49:20	22♑43′02″
23♌25′10″	☽☐♄	8:00:05	3♎25′10″
23♌59′27″	☽☌♆	8:57:39	23♒59′27″
24♌00′09″	☽☐☿	8:58:49	6♐51′34″
2♑25′20″	☿☌♆	9:12:19	2♑25′20″
15♐25′29″	☉☆♄	9:54:39	3♎25′29″
2♑33′51″	☿☐♆	11:33:26	23♒59′34″
27♌00′15″	☽☐♅	14:01:56	22♑43′06″
2♑43′07″	☿☐♅	14:06:50	22♑43′07″
27♌26′16″	☽⚻♄	14:45:47	3♎26′16″
15♐38′41″	☉⚻☽	15:06:45	27♌38′41″
	☽ ♍	19:05:27	
2♍26′33″	☽△♆	23:13:43	2♑26′33″
2♍43′14″	☽☐♅	23:41:59	22♑43′14″

8 December Tuesday

16♐02′29″	☉☽☽	0:29:14	3♍11′03″
3♍21′40″	☽△☿	0:47:14	3♑21′40″
3♍27′53″	☽⚺♄	0:57:47	3♎27′53″
3♑28′07″	☿□♄	2:34:59	3♎28′07″
2S20′38″	☿ Lv	2:59:03	3♑29′34″
3♑45′28″	☿☍♂	7:24:22	18♌45′28″
8♍06′44″	☽□♆	8:52:42	8♐06′44″
3N35′14″	☽⚵♅	14:34:13	3S35′14″
12♍04′52″	☽☌⚳	15:40:27	22♒04′52″
14♍01′01″	☽☌♆	19:00:03	24♒01′01″
14♍28′22″	☽⚼♆	19:47:07	2♑28′22″
16♍43′42″	☽⚼☿	23:40:25	4♑43′42″

9 December Wednesday

17♐02′45″	☉□☽	0:13:19	17♍02′45″
17♍51′45″	☽♐⚳	1:38:00	22♒08′54″
0N36′01″	☽II♄	2:26:57	0N36′01″
18♍52′40″	☽⚺♂	3:23:23	18♌52′40″
19♍06′10″	☽☌☿	3:46:45	9♐06′10″
19♍37′44″	☽♐♆	4:41:26	2♑29′09″
	☽D♇	4:50:32	19♍42′59″
19♍44′21″	☽♐♆	4:52:54	24♒01′30″
0N35′46″	☽⚵♄	7:13:26	0S35′46″
22♍11′57″	☽☍⚳	9:09:08	22♒11′57″
22♍27′35″	☽♐☿	9:36:19	5♑19′01″
22♍43′44″	☽☌⚵	10:04:24	22♑43′44″
24♍01′51″	☽☍♆	12:20:25	24♒01′51″
24♍56′16″	☽⚼♂	13:55:19	18♌56′16″
9♐52′26″	☿♐♅	18:29:35	22♑43′52″
17♐50′26″	☉☌☽	18:59:46	27♍50′26″
27♍54′23″	☽☆☿	19:06:42	9♐54′23″
3S35′01″	☽II♅	19:16:02	3S35′01″
28♍16′17″	☽☆⚳	19:45:03	22♒16′17″
28♍58′37″	☽☌♂	20:59:16	18♌58′37″
	☽ ♎	22:47:01	
0♎02′22″	☽☆♆	22:51:09	24♒02′22″

10 December Thursday

10♐19′16″	☿☆⚳	3:01:16	22♒19′16″
2♎31′08″	☽□☿	3:12:55	2♑31′08″
3♎35′51″	☽☌♄	5:07:02	3♎35′51″
4♎01′29″	☽L♂	5:52:15	19♌01′29″
18♐29′06″	☉☆☽	10:13:20	6♎29′06″
6♎47′38″	☽□☿	10:46:09	6♑47′38″
7♎22′53″	☽♇⚳	11:48:38	22♒22′53″
9♎03′08″	☽♇♆	14:46:37	24♒03′08″
10♎30′46″	☽☌♂	17:22:31	19♌05′03″
11♎07′53″	☽⚹☿	18:28:38	11♐07′53″
12♎32′43″	☽☌☿	20:59:57	2♑32′43″
12♎44′21″	☽☌♅	21:20:44	22♑44′21″
7♑27′09″	☿L⚳	22:07:18	22♒27′09″

11 December Friday

19♐07′25″	☉△♂	1:18:03	19♌07′25″
17♎56′44″	☽☌☿	6:40:31	7♑56′44″
18♎27′25″	☽☐♅	7:35:43	22♑44′33″
19♎09′37″	☽⚹♂	8:51:41	19♌09′37″
19♐28′02″	☉⚹☽	9:24:53	19♎28′02″
20♎33′59″	☽☆☿	11:23:48	2♑33′59″
20♎35′32″	☽☐☿	11:26:34	12♐01′15″
12♐04′13″	☿☆☿	12:23:11	24♒04′13″
5S12′31″	☽Lv	13:10:55	21♎33′19″
22♎34′11″	☽△⚳	15:00:57	22♒34′11″
22♎44′43″	☽☍♅	15:19:59	22♑44′43″
13S53′27″	☽II☿	16:22:44	13S53′27″
24♎04′29″	☽△☿	17:44:28	24♒04′29″
14S52′48″	☽II⚳	21:16:01	14S52′48″

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Daily Aspectarian & AstroData — Greenwich Mean Time (UT)

26♎51'59"	☽☆☿	22:48:38	8♑51'59"

12 December Saturday

27♎41'45"	☽∟♀	0:19:14	12♐41'45"
28♎44'57"	☽☆♅	2:14:24	22☽44'57"
20♐10'49"	☉☌☽	2:14:41	28♎45'06"
9♑04'56"	☿∟♆	2:37:31	24♒04'56"
	☽ ♏	4:31:23	
1♏15'35"	☽☆♂	6:49:34	19♌15'35"
0.5544	☿ ✧	8:20:25	9♑24'16"
2♏35'57"	☽☍♆	9:16:45	2♑35'57"
3♏13'33"	☽♑♀	10:25:43	13♐13'33"
3♏43'42"	☽∠♄	11:21:02	3♎43'42"
17N49'32"	☽♯♂	12:57:18	17S49'32"
4♏43'32"	☽⚻♃	13:10:56	22♑43'32"
20♐43'17"	☉∟☽	15:00:50	5♏43'17"
18S16'49"	☽⚼♆	15:34:09	18S16'49"
6♏05'37"	☽⚻♆	15:41:57	24♒05'37"
22♒45'17"	♃∠♅	17:19:25	22☽45'17"
7♏39'11"	☽⚻♀	18:34:25	13♐39'11"
7♏45'19"	☽♇♅	18:45:44	22☽45'19"
9♏19'17"	☽♑♂	21:39:19	19♌19'17"
9♏45'15"	☽⚻♄	22:27:21	3♎45'15"
9♏56'11"	☽♐♃	22:47:35	22♒47'37"
10♏14'36"	☽☍☿	23:21:40	10♑14'36"

13 December Sunday

21♐08'45"	☉♑☽	1:02:00	11♏08'45"
11♏11'39"	☽♐♆	1:07:21	2♑37'21"
11♏14'41"	☽♐♆	1:12:59	24♒06'07"
13♏46'17"	☽♑♄	5:54:29	3♎46'17"
14♏17'56"	☽∠♀	6:53:23	14♐17'56"
10♑45'39"	☿☆♅	8:44:46	22☽45'39"
21♐29'17"	☉⚻☽	9:06:17	15♏29'17"
17♏38'26"	☽∟♆	13:07:24	2♑38'26"
18♏47'33"	☽∟♄	15:16:43	3♎47'33"
19♏23'34"	☽□♂	16:24:09	19♌23'34"
19♏47'29"	☽♐☿	17:08:59	11♑13'12"
22S18'01"	☽⚼♀	18:47:59	22S18'01"
22♐00'18"	☉∠☽	21:18:21	22♏00'18"
22♏39'17"	☽♑♆	22:31:40	2♑39'17"
22♏46'01"	☽△♅	22:44:19	22☽46'01"
22♏58'01"	☽□♃	23:06:55	22♒58'01"

14 December Monday

24♏07'24"	☽□♆	1:17:38	24♒07'24"
23S12'41"	☉⚼☽	2:47:03	23S12'41"
25♏14'54"	☽♐♄	3:25:01	3♎49'11"
26♏39'57"	☽⚻♆	6:05:45	2♑39'57"
26♏56'48"	☽∟♀	6:37:37	11♑56'48"
15♐50'22"	♀☆♄	12:16:10	3♎50'22"
	☽ ♐	12:25:01	
22♐46'27"	☉□♅	15:26:51	22☽46'27"
2♐19'55"	☽♐♂	16:51:15	19♌28'30"
2♐30'27"	☽♑♀	17:11:19	12♑30'27"
2♐40'59"	☽∠♆	17:31:25	2♑40'59"
3♐06'19"	☽♑♃	18:19:44	23♒06'19"
3♐51'21"	☽☍♄	19:45:41	3♎51'21"
4♐08'25"	☽♑♆	20:18:18	24♒08'25"
4♐46'37"	☽⚻♅	21:31:17	22☽46'37"
24S55'03"	☽⚼♀	23:06:09	24S55'03"

15 December Tuesday

23♐08'55"	☉☍♃	0:16:33	23♒08'55"
6♐57'10"	☽⚻☿	1:41:13	12♑57'10"
7♐30'16"	☽⚻♂	2:44:43	19♌30'16"
13♑11'32"	☿♑♃	6:18:22	23♒11'32"
9♐55'28"	☽♐♅	7:23:45	22☽46'54"
11♐13'07"	☽☆♃	9:53:18	23♒13'07"
12♐09'17"	☽☆♆	11:41:39	24♒09'17"
13♑31'58"	☿☆♂	12:55:31	19♌31'58"
13♐36'50"	☽∠☿	14:30:49	13♑36'50"
23♐54'14"	☉♑♄	18:05:28	3♎54'14"
15♐54'21"	☽☆♄	18:57:08	3♎54'21"
17♐37'24"	☽☍♀	22:17:15	17♐37'24"

16 December Wednesday

24♐09'59"	☉☍♆	0:16:40	24♒09'59"
14♑10'03"	☿♑♆	1:27:55	24♒10'03"
19♐33'57"	☽△♂	2:04:04	19♌33'57"
25S46'05"	☽ Dv	2:37:18	19♐51'01"
22♐47'39"	☽□♅	8:22:14	22☽47'39"
23♐23'30"	☽☌♃	9:32:25	23♒23'30"
23♐56'19"	☽℧♄	10:36:40	3♎56'19"
24♐10'35"	☽☍♆	11:04:38	24♒10'35"
24♐39'54"	☉☌☽	12:02:04	24♐39'54"
24♒10'50"	♆☿♆	15:28:59	2♑45'07"
	☽ ♑	22:31:46	

17 December Thursday

2♑05'23"	☽☿♃	2:39:30	23♒31'06"
2♑45'51"	☽☿♆	3:59:33	24♒11'34"
2♑46'15"	☽☌♆	4:00:22	2♑46'15"
2♑48'16"	☽♑♅	4:04:22	22☽48'16"
3♑58'44"	☽□♄	6:23:58	3♎58'44"
4♑37'38"	☽♇♂	7:41:05	19♌37'38"
19♐38'08"	♆△♂	12:39:07	19♌38'08"
24S19'13"	☽⚼☿	15:17:21	24S19'13"
8♑36'53"	☽∟♃	15:36:46	23♒36'53"
9♑12'18"	☽∟♆	16:47:20	24♒12'18"
10♑48'49"	☽☆♅	19:59:55	22☽48'49"

18 December Friday

13♑39'18"	☽☍♂	1:40:51	19♌39'18"
13♑41'27"	☽♑♃	1:45:09	23♒41'27"
23S23'11"	☉⚼☽	2:01:20	23S23'11"
14♑12'53"	☽♑♆	2:48:08	24♒12'53"
22S59'33"	☽⚼♀	5:55:35	22S59'33"
16♑44'21"	☽☌☿	7:52:00	16♑44'21"
16♑53'13"	☽☿♄	8:09:50	4♎01'48"
17♑45'07"	☽⚻♃	9:54:06	23♒45'07"
18♑13'21"	☽⚻♆	10:50:52	24♒13'21"
16♑53'36"	☿☿♄	11:22:33	4♎02'10"
19♑40'10"	☽♐♂	13:45:35	19♌40'10"
22☽49'31"	♅☽♆	16:02:12	2♑49'31"
21♑06'14"	☽∠♀	16:38:59	21♐06'14"
	☽L ♁	16:41:04	21♑07'16"
22♑03'00"	☽⚻♄	18:33:29	4♎03'00"
22♑49'39"	☽☍♅	20:07:39	22☽49'39"
20°15'28"	☿ ☉	20:58:07	17♑18'23"
23♑50'40"	☽∠♃	22:10:51	23♒50'40"
23♑57'49"	☽☿♂	22:25:18	19♌40'41"
24♑14'04"	☽∠♆	22:58:08	24♒14'04"

19 December Saturday

27♐26'24"	☉∠☽	5:27:16	27♑26'24"
27♑48'55"	☽⚻♀	6:12:52	21♐48'55"
29♑41'12"	☽♋♂	10:00:28	19♌41'12"
	☽ ♒	10:38:36	
17♑57'15"	☿⚻♃	12:38:36	23♒57'15"
1♒24'35"	☽☿♅	13:30:16	22☽50'18"
2♒17'29"	☽♑♀	15:17:41	22♐17'29"
2♒51'43"	☽∠♆	16:27:13	2♑51'43"
18S17'23"	☽⚼♆	17:38:03	18S17'23"
28♐00'19"	☉⚻☽	18:46:38	4♒00'19"
4♒05'45"	☽△♄	18:57:39	4♎05'45"
17N59'12"	☽♯♂	19:33:14	17S59'12"
18♑15'21"	☿⚻♆	20:15:51	24♒15'21"

20 December Sunday

22♐50'47"	♀□♅	1:52:22	22☽50'47"
7♒50'48"	☽∟♅	2:35:29	22☽50'48"
7♒53'18"	☽∟♀	2:40:34	22♐53'18"
28♐23'00"	☉♑☽	3:41:01	8♒23'00"
8♒52'50"	☽⚻♆	4:41:46	2♑52'50"
12♒51'12"	☽♑♅	12:47:22	22☽51'12"
12♒53'34"	☽♑♆	12:52:12	2♑53'34"
	♂ SR	13:26:12	19♌41'43"
28♐51'23"	☉∟☽	14:50:01	13♒51'23"
0.0027	☽ A	14:53:25	13♒53'03"
14S21'21"	☽⚼♃	16:49:03	14S21'21"
15♒05'10"	☽♐♀	17:20:23	23♐39'27"
13S49'19"	☽⚼♆	19:44:16	13S49'19"
16♒51'32"	☽⚻♅	20:57:12	22☽51'32"
23S26'09"	☉⚼☿	21:35:10	23S26'09"
	♀L ♇	22:00:57	23♐54'10"
17♒54'30"	☽∟♆	23:05:33	2♑54'30"

21 December Monday

19♒09'03"	☽♇♄	1:37:28	4♎09'03"
19♒20'32"	☽∠☿	2:00:53	19♑20'32"
19♒41'35"	☽☍♂	2:43:48	19♌41'35"
24♐09'10"	♀☿♄	2:47:05	4♎09'10"
24♐15'46"	♀☌♃	4:52:45	24♒15'46"
29♐27'54"	☉♐☽	5:10:34	20♒53'37"
24♐17'23"	♀☌♆	5:23:43	24♒17'23"
23S19'52"	☿⚼♀	6:11:59	23S19'52"
24♒17'36"	♃☍♆	8:50:33	24♒17'36"
22♒52'02"	☽∠♅	9:11:46	22☽52'02"
24♒17'48"	☽☍♆	12:06:22	24♒17'48"
24♒19'08"	☽☍♃	12:09:05	24♒19'08"
24♒21'24"	☽♐♆	12:13:43	2♑55'42"
19♑41'21"	☿♐♂	12:33:24	19♌41'21"
24♒40'58"	☽☌♀	12:53:32	24♐40'58"
25♒46'11"	☽⚻☿	15:06:13	19♑46'11"
	☉ ♑	17:46:46	
24♒21'57"	♃♐♆	18:11:47	2♑56'14"
28♒10'57"	☽☆♄	20:00:34	4♎10'57"
	☽ ☽	23:42:04	
0☽02'03"	☽♑☿	23:46:13	20♑02'03"

22 December Tuesday

0♑16'30"	☉☌☽	0:15:33	0☽16'30"
2☽57'17"	☽☌♆	5:41:36	2♑57'17"
4☽12'10"	☽♐♄	8:13:16	4♎12'10"
5☽20'25"	☽∟☿	10:31:21	20♑20'25"
23S26'12"	☉⚼♀	11:23:16	23S26'12"
8☽06'39"	☽☆♀	16:07:05	26♐06'39"
8☽30'10"	☽♐♄	16:54:32	4♎13'02"
9☽39'43"	☽♇♂	19:14:42	19♌39'43"
3S30'39"	☽⚼♅	22:50:55	3S30'39"

23 December Wednesday

12☽07'17"	☽♐☿	0:11:31	20♑41'35"
1♑23'59"	☉☆☽	2:45:27	13☽23'59"
14☽14'09"	☽♑♄	4:26:01	4♎14'09"
14☽59'28"	☽☆♆	5:56:48	2♑59'28"
15☽21'38"	☽♐♂	6:41:09	19♌38'47"
17☽03'07"	☽♑♀	10:03:58	27♐03'07"
0N22'28"	☽♯♃	13:20:12	0S22'28"
	☽ D♁	15:03:09	19☽33'15"
19☽37'58"	☽☍♂	15:12:32	19♌37'58"
0N22'23"	☽⚼♄	16:45:34	0N22'23"
21☽05'17"	☽☍☿	18:06:02	21♑05'17"
2♑08'21"	☉♑☽	20:11:06	21♑08'21"
22☽54'42"	☽♂♅	21:42:54	22☽54'42"
23☽00'55"	☽☿♆	21:55:12	3♑00'55"

24 December Thursday

24☽21'39"	☽∠♆	0:34:45	24♒21'39"
24☽47'58"	☽∠♃	1:26:40	24♒47'58"
25☽36'40"	☽☆♂	3:02:41	19♌36'40"
3N30'02"	☽♯♅	7:01:59	3S30'02"
28☽12'37"	☽□♀	8:09:14	28♐12'37"
	☽ ♈	11:39:30	
0♈22'26"	☽⚻♆	12:23:19	24♒22'26"
0♈53'40"	☽⚻♃	13:24:18	24♒53'40"
2♑55'31"	☉♑♅	14:42:16	22☽55'31"
2♑56'54"	☉♐♆	15:14:53	24♒22'37"
3♑02'43"	☉☌♆	17:31:40	3♑02'43"
3♈02'43"	☽□☿	17:35:36	3♑02'43"
3♑02'53"	☉□☽	17:35:57	3♈02'53"
3♈29'38"	☽☆☿	18:27:53	21♑29'38"
4♈17'48"	☽☍♄	20:01:20	4♎17'48"
4♈22'57"	☽♑♆	20:11:18	24♒22'57"
4♈34'22"	☽♇♂	20:33:26	19♌34'22"
4♈57'26"	☽♑♃	21:18:07	24♒57'26"

25 December Friday

9♈23'34"	☽∟♆	5:50:56	24♒23'34"
3♑36'14"	☉♐♃	6:41:18	25♒01'56"
10♈02'08"	☽∟♃	7:04:48	25♒02'08"
11♈40'07"	☽♑☿	10:12:06	21♑40'07"
12♈31'05"	☽♐♀	11:49:17	29♐39'39"
15♈50'07"	☽♐♆	18:06:54	24♒24'24"
	♀ ♑	18:17:06	
15♈56'23"	☽♐☿	18:18:44	3♑04'58"
16♈33'49"	☽♐♃	19:29:25	25♒08'06"
4♑11'08"	☉♐☽	20:23:37	17♈02'33"
18♈13'39"	☽⚻♀	22:37:25	0♑13'39"
18N17'47"	♂♯♆	23:04:37	18S17'47"
4♑20'13"	☉□♄	23:57:37	4♎20'13"

26 December Saturday

19♈29'44"	☽△♂	1:00:11	19♌29'44"
4♑29'16"	☉♇♂	3:30:51	19♌29'16"

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Daily Aspectarian & AstroData — Greenwich Mean Time (UT)

21♈05'49''	☽□♆	3:59:56	3♌05'49''
5N16'38''	☽L^	4:14:03	21♈13'25''
21♈46'53''	☽□♅	5:16:28	21♌46'53''
4♌37'46''	☉□☽	6:51:12	22♈37'46''
13N46'31''	☽#♆	7:15:04	13S46'31''
22♈57'33''	☽∠♇	7:27:58	22♐57'33''
13N59'35''	☽#♃	8:20:13	13S59'35''
24♈21'03''	☽☋♄	10:02:51	4♎21'03''
24♈25'29''	☽☍♆	10:11:04	24♑25'29''
25♈15'58''	☽☍♃	11:44:26	25♑15'58''
	☿ SR	14:38:01	21♌47'43''
28♈58'08''	☽□♇	18:33:00	22♐58'08''
	☿ L☌	20:09:13	21♌47'25''
	☽ ☌	20:26:06	
0♉04'45''	☽☐♄	20:34:47	4♎21'54''
1♉25'21''	☽□♂	23:01:40	19♑25'21''
1♉30'58''	☽△♀	23:11:52	1♌30'58''

27 December Sunday

2♉58'31''	☽☋♇	1:50:50	22♐58'31''
3♉07'51''	☽△♆	2:07:44	3♌07'51''
4♉22'31''	☽☐♄	4:22:47	4♎22'31''
4♉37'10''	☽☐☿	4:49:16	21♌45'45''
5♌38'24''	☉△☽	6:39:35	5♉38'24''
18N17'49''	☽#♆	7:07:12	18S17'49''
18N23'05''	☽☍♂	7:37:32	18N23'05''
6♉26'59''	☽☆♆	8:06:57	24♑26'59''
6♉31'53''	☽☐♂	8:15:45	19♑23'19''
19♑22'57''	♂L♄	9:51:25	4♎22'57''
7♉26'45''	☽☆♃	9:54:12	25♑26'45''
7♉58'59''	☽L♇	10:51:56	22♐58'59''
9♉42'22''	☽□☿	13:56:32	21♌42'22''
10♉23'22''	☽☆♄	15:09:28	4♎23'22''
14♉25'21''	☽☐♇	22:17:43	22♐59'38''
14♉27'58''	☽☋♆	22:22:19	24♑27'58''

28 December Monday

15♉33'49''	☽☌♃	0:18:07	25♑33'49''
21N20'13''	☽#☿	1:56:38	21S20'13''
2♌59'55''	♀☋♇	3:28:16	22♐59'55''
3♌02'40''	♀☐♆	4:20:38	24♑28'23''
18♉03'42''	☽☍♀	4:40:30	3♌03'42''
18♉10'16''	☽☍♆	4:51:59	3♌10'16''
3♌10'27''	♀☌♆	6:49:12	3♌10'27''
19♉17'48''	☽□♂	6:49:40	19♑17'48''
19♉24'33''	☽☍♄	7:01:23	4♎24'33''
21♉28'29''	☽△☿	10:36:28	21♌28'29''
6♌51'15''	☉☍☽	11:15:50	21♉51'15''
23♉00'28''	☽☍♇	13:15:23	23♐00'28''
24♉29'10''	☽□♆	15:48:08	24♑29'10''
23N14'59''	☉#☽	16:29:49	23S14'59''
25♉42'28''	☽□♃	17:53:59	25♑42'28''
27♉11'41''	☽☆♅	20:26:37	3♌11'41''
23N41'43''	☽#♀	20:31:13	23S41'43''
27♉57'24''	☽☆♀	21:44:39	3♌57'24''
29♉13'10''	☽☌♂	23:53:43	19♑13'10''

29 December Tuesday

23S41'49''	♀ Dv	0:09:01	4♌04'58''
	☽ ♊	1:13:16	
4♌12'26''	♀☍♂	2:31:23	19♑12'26''
7♌33'32''	☉☆☽	3:51:47	1♊33'32''
4♌22'39''	♀☐♃	5:46:07	25♑48'22''
3♊12'36''	☽☐♆	6:39:10	3♌12'36''
4♌26'16''	♀□♄	6:55:02	4♎26'16''
4♊26'23''	☽△♄	8:43:24	4♎26'23''
4♊32'28''	☽☐♀	8:53:39	4♌32'28''
5♊01'37''	☽☆♇	9:42:39	23♐01'37''
6♊00'18''	☽☍♅	11:21:07	21♌00'18''
7♊09'16''	☽☆♂	13:16:36	19♑09'16''
7♊22'08''	☽☐♆	13:38:08	24♑30'43''
7♊30'24''	☽☐♅	13:51:57	3♌13'15''
8♌01'11''	☉☐☽	14:43:22	8♊01'11''
8♊44'50''	☽☐♃	15:56:13	25♑53'24''
9♊14'21''	☽☐♀	16:45:25	4♌57'12''
12♊31'20''	☽□♆	22:12:34	24♑31'20''
8♌20'43''	☉☐☽	22:23:22	12♊37'51''
13♊02'25''	☽☋♇	23:04:01	23♐02'25''
13♊14'08''	☽☋♅	23:23:24	3♌14'08''

30 December Wednesday

13♊57'43''	☽□♃	0:35:26	25♑57'43''
14♊38'12''	☽☆☿	1:42:15	20♌38'12''
13S44'26''	♃∥♆	2:23:20	13S44'26''
15♊29'50''	☽☋♀	3:07:22	5♌29'50''
16♊27'43''	☽□♄	4:42:40	4♎27'43''
8♌46'29''	☉☋☽	8:30:27	18♊46'29''
19♊03'01''	☽☍♂	8:57:34	19♑03'01''
25N47'22''	☽ D^	10:05:46	19♊44'42''
20♊21'30''	☽☐☿	11:05:56	20♌21'30''
21♊36'51''	☽☐♄	13:08:59	4♎28'17''
23♊03'24''	☽□♇	15:30:03	23♐03'24''
24♊25'47''	☽☐☿	17:44:05	20♌08'39''
24♊32'44''	☽△♆	17:55:22	24♑32'44''
20♌06'46''	☿∥♃	18:40:29	26♑06'46''
26♊07'40''	☽△♃	20:29:27	26♑07'40''
27♊32'37''	☽☌♂	22:47:04	18♑58'19''

31 December Thursday

29♊50'24''	☽☋☿	2:29:47	19♌50'24''
	☽ ♋	2:45:16	
9♌33'23''	☉L♆	2:55:27	24♑33'23''
3♋17'06''	☽☍♆	8:02:48	3♌17'06''
3♋54'40''	☽L♂	9:03:13	18♑54'40''
4♋29'34''	☽□♄	9:59:19	4♎29'34''
0.3075	☿ P	11:58:35	19♌29'05''
5♋56'06''	☽☐♇	12:18:15	23♐04'41''
7♋21'22''	☽☍♀	14:34:59	7♌21'22''
8♋51'43''	☽☌♂	16:59:42	18♑51'43''
9♋34'30''	☽☍♆	18:08:09	24♑34'30''
10♌14'53''	☉●☽	19:12:44	10♋14'53''
11♋05'11''	☽☋♇	20:33:11	23♐05'11''
11♋19'59''	☽☍♃	20:56:50	26♑19'59''
23N38'28''	☽#♀	22:46:22	23S38'28''
12♋49'19''	☽☊♂	23:19:31	18♑49'19''

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KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

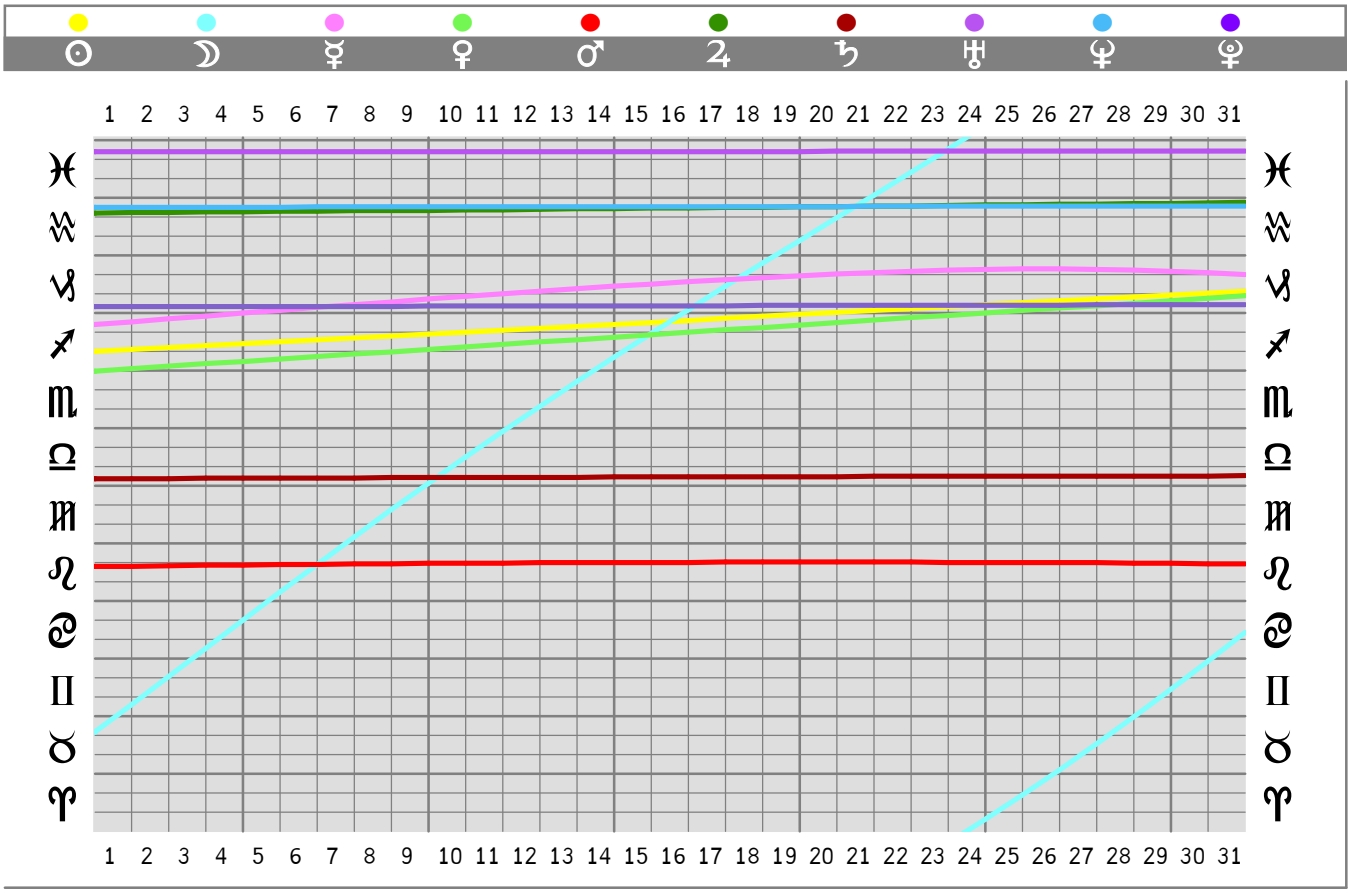
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — Greenwich Mean Time - 0:00 (UT)

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	8♐55'16"	21♉29'54"	23♑15'33"	22♐57'49"	28♏50'41"	17♌23'40"	20♒54'34"	2♎59'05"	22℞42'17"	23♒53'09"	2♑12'06"
2	9 56'04	5♊44'20	23 12'22	24 27'56	0♐06'06	17 36'44	21 03'19	3 03'26	22 42'16	23 54'03	2 14'08
3	10 56'52	20 14'17	23 09'12	25 57'41	1 21'32	17 49'14	21 12'12	3 07'42	22 42'18	23 54'59	2 16'12
4	11 57'42	4♋53'12	23 06'01	27 27'01	2 36'58	18 01'09	21 21'12	3 11'53	22 42'23	23 55'57	2 18'16
5	12 58'34	19 34'09	23 02'50	28 55'54	3 52'25	18 12'28	21 30'21	3 15'58	22 42'31	23 56'57	2 20'20
6	13 59'26	4♌10'53	22 59'40	0♑24'13	5 07'52	18 23'10	21 39'38	3 19'59	22 42'43	23 57'59	2 22'26
7	15 00'20	18 38'32	22 56'29	1 51'54	6 23'20	18 33'15	21 49'02	3 23'53	22 42'57	23 59'03	2 24'31
8	16 01'15	2♍53'50	22 53'19	3 18'49	7 38'48	18 42'41	21 58'34	3 27'43	22 43'14	24 00'08	2 26'38
9	17 02'11	16 55'02	22 50'08	4 44'52	8 54'17	18 51'28	22 08'14	3 31'27	22 43'34	24 01'15	2 28'44
10	18 03'08	0♎41'32	22 46'57	6 09'52	10 09'46	18 59'36	22 18'01	3 35'06	22 43'58	24 02'25	2 30'51
11	19 04'07	14 13'26	22 43'47	7 33'40	11 25'15	19 07'02	22 27'56	3 38'39	22 44'24	24 03'36	2 32'59
12	20 05'07	27 31'12	22 40'36	8 56'02	12 40'45	19 13'47	22 37'58	3 42'06	22 44'54	24 04'48	2 35'07
13	21 06'08	10♏35'18	22 37'25	10 16'43	13 56'15	19 19'50	22 48'07	3 45'28	22 45'26	24 06'03	2 37'16
14	22 07'10	23 26'12	22 34'15	11 35'27	15 11'46	19 25'10	22 58'24	3 48'44	22 46'02	24 07'19	2 39'25
15	23 08'12	6♐04'20	22 31'04	12 51'53	16 27'17	19 29'47	23 08'47	3 51'54	22 46'41	24 08'38	2 41'34
16	24 09'16	18 30'14	22 27'54	14 05'38	17 42'48	19 33'39	23 19'18	3 54'59	22 47'23	24 09'58	2 43'44
17	25 10'21	0♑44'41	22 24'43	15 16'16	18 58'19	19 36'47	23 29'55	3 57'58	22 48'09	24 11'19	2 45'53
18	26 11'26	12 48'55	22 21'32	16 23'16	20 13'50	19 39'09	23 40'39	4 00'50	22 48'57	24 12'43	2 48'04
19	27 12'31	24 44'40	22 18'22	17 26'04	21 29'22	19 40'46	23 51'30	4 03'37	22 49'48	24 14'08	2 50'14
20	28 13'37	6♒34'25	22 15'11	18 24'01	22 44'53	19 41'35	24 02'27	4 06'18	22 50'42	24 15'35	2 52'24
21	29 14'44	18 21'13	22 12'00	19 16'25	24 00'24	19 41'38	24 13'30	4 08'53	22 51'40	24 17'03	2 54'35
22	0♑15'50	0♓08'50	22 08'50	20 02'27	25 15'55	19 40'54	24 24'39	4 11'21	22 52'40	24 18'33	2 56'46
23	1 16'57	12 01'33	22 05'39	20 41'18	26 31'27	19 39'21	24 35'55	4 13'43	22 53'43	24 20'04	2 58'56
24	2 18'04	24 04'04	22 02'29	21 12'03	27 46'57	19 37'01	24 47'16	4 15'59	22 54'49	24 21'37	3 01'07
25	3 19'12	6♈21'11	21 59'18	21 33'48	29 02'28	19 33'52	24 58'44	4 18'09	22 55'58	24 23'12	3 03'18
26	4 20'19	18 57'38	21 56'07	21 45'41	0♑17'59	19 29'55	25 10'17	4 20'13	22 57'10	24 24'48	3 05'29
27	5 21'26	1♉57'27	21 52'57	21 46'52	1 33'29	19 25'08	25 21'56	4 22'10	22 58'25	24 26'25	3 07'39
28	6 22'34	15 23'30	21 49'46	21 36'43	2 48'59	19 19'33	25 33'40	4 24'02	22 59'43	24 28'04	3 09'50
29	7 23'41	29 16'53	21 46'35	21 14'48	4 04'30	19 13'09	25 45'30	4 25'47	23 01'04	24 29'45	3 12'01
30	8 24'49	13♊36'16	21 43'25	20 41'03	5 20'00	19 05'56	25 57'26	4 27'25	23 02'28	24 31'27	3 14'11
31	9 25'56	28 17'42	21 40'14	19 55'45	6 35'30	18 57'54	26 09'26	4 28'58	23 03'55	24 33'11	3 16'22

Geocentric Longitudes — 360° Graphic Ephemeris



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KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Declinations — Greenwich Mean Time - 0:00 (UT)

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇
1	21S47'12''	22N27'36''	25S24'14''	19S08'50''	17N59'09''	15S26'50''	0N47'10''	3S35'59''	13S57'16''	18S15'37''
2	21 56'21	24 55'14	25 31'22	19 27'05	17 57'16	15 23'56	0 45'39	3 35'57	13 56'58	18 15'45
3	22 05'06	25 46'21	25 37'06	19 44'47	17 55'35	15 20'59	0 44'11	3 35'54	13 56'39	18 15'52
4	22 13'24	24 50'27	25 41'25	20 01'56	17 54'04	15 18'01	0 42'45	3 35'50	13 56'19	18 15'59
5	22 21'17	22 11'30	25 44'20	20 18'30	17 52'45	15 14'59	0 41'21	3 35'44	13 55'59	18 16'06
6	22 28'44	18 06'23	25 45'48	20 34'31	17 51'38	15 11'54	0 39'59	3 35'38	13 55'39	18 16'13
7	22 35'45	12 58'53	25 45'50	20 49'55	17 50'44	15 08'46	0 38'40	3 35'30	13 55'17	18 16'20
8	22 42'19	7 13'41	25 44'25	21 04'44	17 50'02	15 05'36	0 37'23	3 35'21	13 54'56	18 16'26
9	22 48'27	1 12'56	25 41'33	21 18'57	17 49'33	15 02'23	0 36'09	3 35'11	13 54'33	18 16'32
10	22 54'07	4S44'25	25 37'14	21 32'32	17 49'17	14 59'07	0 34'56	3 34'59	13 54'10	18 16'38
11	22 59'21	10 22'02	25 31'30	21 45'29	17 49'14	14 55'48	0 33'46	3 34'46	13 53'46	18 16'44
12	23 04'07	15 25'10	25 24'20	21 57'48	17 49'26	14 52'27	0 32'38	3 34'32	13 53'22	18 16'50
13	23 08'25	19 40'09	25 15'46	22 09'27	17 49'52	14 49'03	0 31'32	3 34'17	13 52'57	18 16'55
14	23 12'16	22 54'33	25 05'51	22 20'28	17 50'31	14 45'36	0 30'29	3 34'01	13 52'32	18 17'00
15	23 15'40	24 58'20	24 54'38	22 30'48	17 51'26	14 42'07	0 29'28	3 33'43	13 52'05	18 17'05
16	23 18'35	25 45'38	24 42'10	22 40'28	17 52'35	14 38'35	0 28'30	3 33'24	13 51'39	18 17'10
17	23 21'03	25 16'03	24 28'31	22 49'26	17 53'59	14 35'01	0 27'34	3 33'04	13 51'12	18 17'15
18	23 23'02	23 34'42	24 13'48	22 57'44	17 55'37	14 31'23	0 26'40	3 32'43	13 50'44	18 17'19
19	23 24'34	20 50'57	23 58'07	23 05'19	17 57'31	14 27'44	0 25'49	3 32'20	13 50'15	18 17'23
20	23 25'37	17 16'08	23 41'36	23 12'12	17 59'40	14 24'02	0 25'01	3 31'57	13 49'46	18 17'27
21	23 26'12	13 01'48	23 24'24	23 18'23	18 02'05	14 20'17	0 24'14	3 31'32	13 49'17	18 17'31
22	23 26'18	8 18'32	23 06'41	23 23'51	18 04'44	14 16'30	0 23'31	3 31'06	13 48'47	18 17'35
23	23 25'57	3 15'50	22 48'40	23 28'36	18 07'39	14 12'41	0 22'50	3 30'39	13 48'17	18 17'38
24	23 25'07	1N57'29	22 30'32	23 32'38	18 10'50	14 08'49	0 22'11	3 30'10	13 47'46	18 17'41
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26	23 22'03	12 17'57	21 54'53	23 38'30	18 17'56	14 00'59	0 21'01	3 29'10	13 46'42	18 17'47
27	23 19'49	17 00'48	21 37'51	23 40'20	18 21'51	13 56'59	0 20'30	3 28'38	13 46'10	18 17'49
28	23 17'06	21 03'07	21 21'37	23 41'26	18 26'01	13 52'59	0 20'02	3 28'05	13 45'37	18 17'52
29	23 13'56	24 03'08	21 06'24	23 41'49	18 30'27	13 48'56	0 19'36	3 27'31	13 45'03	18 17'54
30	23 10'18	25 37'49	20 52'23	23 41'27	18 35'06	13 44'50	0 19'12	3 26'56	13 44'29	18 17'56
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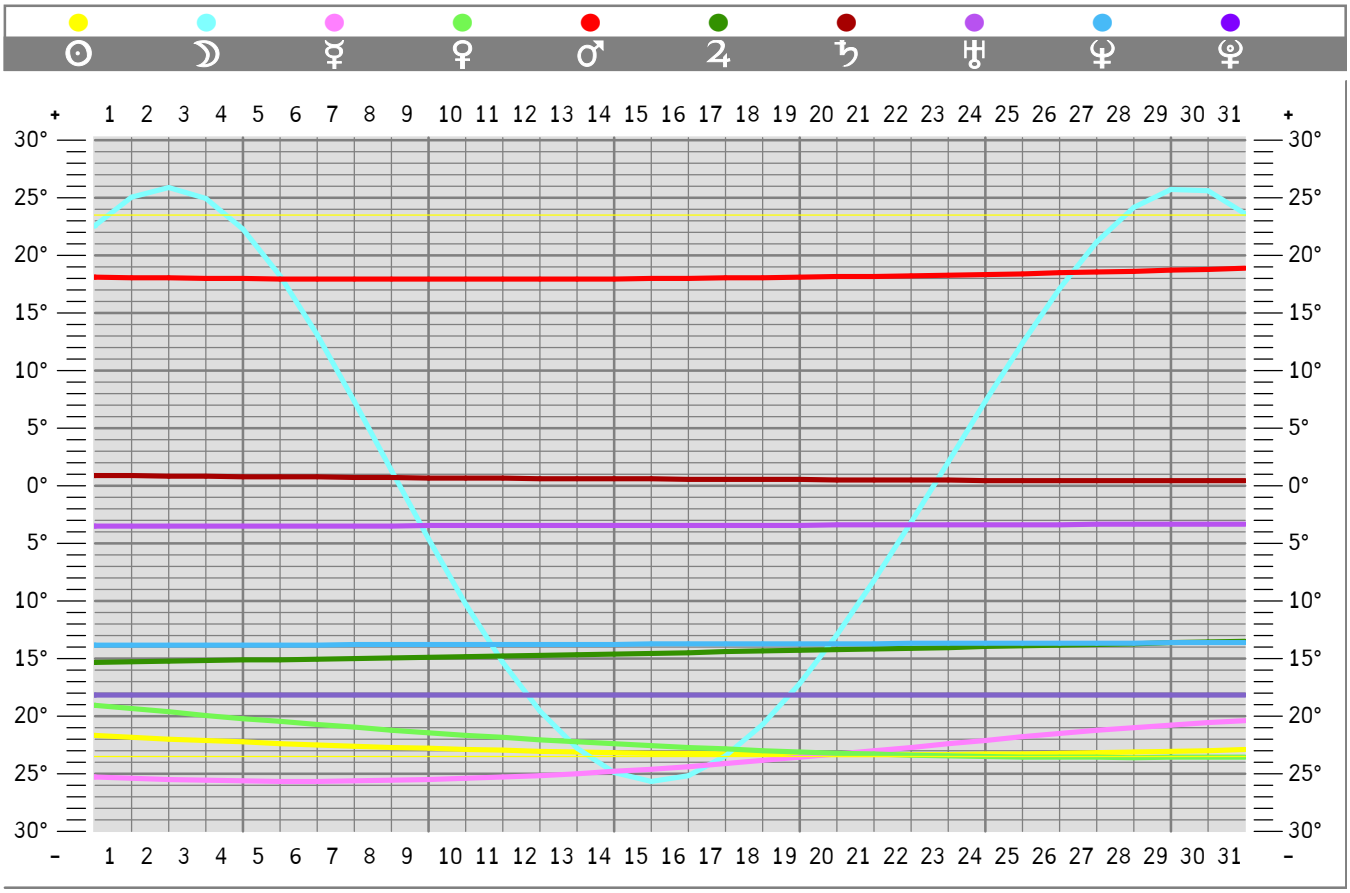

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DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Latitudes — Greenwich Mean Time - 0:00 (UT)

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇
1		4N28'55''	2S09'18''	0N46'21''	2N29'03''	0S58'21''	2N08'59''	0S46'01''	0S25'09''	5N09'40''
2		3 43'02	2 12'05	0 44'12	2 31'18	0 58'16	2 09'14	0 45'59	0 25'08	5 09'30
3		2 42'00	2 14'32	0 42'02	2 33'35	0 58'10	2 09'28	0 45'56	0 25'08	5 09'20
4		1 29'35	2 16'36	0 39'49	2 35'53	0 58'05	2 09'43	0 45'54	0 25'08	5 09'11
5		0 10'55	2 18'16	0 37'36	2 38'12	0 57'59	2 09'58	0 45'51	0 25'08	5 09'02
6		1S08'15	2 19'31	0 35'20	2 40'32	0 57'54	2 10'13	0 45'49	0 25'08	5 08'53
7		2 22'19	2 20'18	0 33'04	2 42'53	0 57'49	2 10'28	0 45'46	0 25'07	5 08'44
8		3 26'29	2 20'37	0 30'46	2 45'16	0 57'43	2 10'43	0 45'44	0 25'07	5 08'36
9		4 17'11	2 20'25	0 28'27	2 47'40	0 57'38	2 10'58	0 45'41	0 25'07	5 08'27
10		4 52'03	2 19'41	0 26'07	2 50'05	0 57'33	2 11'14	0 45'39	0 25'07	5 08'19
11		5 09'58	2 18'20	0 23'46	2 52'31	0 57'28	2 11'29	0 45'37	0 25'07	5 08'11
12		5 10'50	2 16'22	0 21'24	2 54'58	0 57'23	2 11'45	0 45'34	0 25'07	5 08'03
13		4 55'26	2 13'44	0 19'02	2 57'26	0 57'19	2 12'01	0 45'32	0 25'07	5 07'55
14		4 25'18	2 10'22	0 16'39	2 59'55	0 57'14	2 12'17	0 45'29	0 25'07	5 07'47
15		3 42'34	2 06'13	0 14'15	3 02'24	0 57'09	2 12'33	0 45'27	0 25'06	5 07'39
16		2 49'48	2 01'15	0 11'51	3 04'55	0 57'05	2 12'49	0 45'24	0 25'06	5 07'32
17		1 49'51	1 55'24	0 09'27	3 07'26	0 57'00	2 13'05	0 45'22	0 25'06	5 07'25
18		0 45'38	1 48'37	0 07'02	3 09'58	0 56'56	2 13'21	0 45'19	0 25'06	5 07'18
19		0N19'59	1 40'50	0 04'38	3 12'31	0 56'52	2 13'38	0 45'17	0 25'06	5 07'11
20		1 24'17	1 31'59	0 02'13	3 15'04	0 56'47	2 13'54	0 45'14	0 25'06	5 07'04
21		2 24'48	1 22'01	0S00'12	3 17'37	0 56'43	2 14'11	0 45'12	0 25'06	5 06'58
22		3 19'17	1 10'53	0 02'37	3 20'10	0 56'39	2 14'27	0 45'10	0 25'06	5 06'51
23		4 05'38	0 58'33	0 05'01	3 22'44	0 56'35	2 14'44	0 45'07	0 25'06	5 06'45
24		4 41'52	0 45'00	0 07'25	3 25'17	0 56'32	2 15'01	0 45'05	0 25'06	5 06'39
25		5 06'05	0 30'14	0 09'48	3 27'51	0 56'28	2 15'17	0 45'02	0 25'06	5 06'33
26		5 16'24	0 14'16	0 12'11	3 30'24	0 56'24	2 15'34	0 45'00	0 25'06	5 06'28
27		5 11'07	0N02'48	0 14'33	3 32'56	0 56'21	2 15'51	0 44'58	0 25'06	5 06'22
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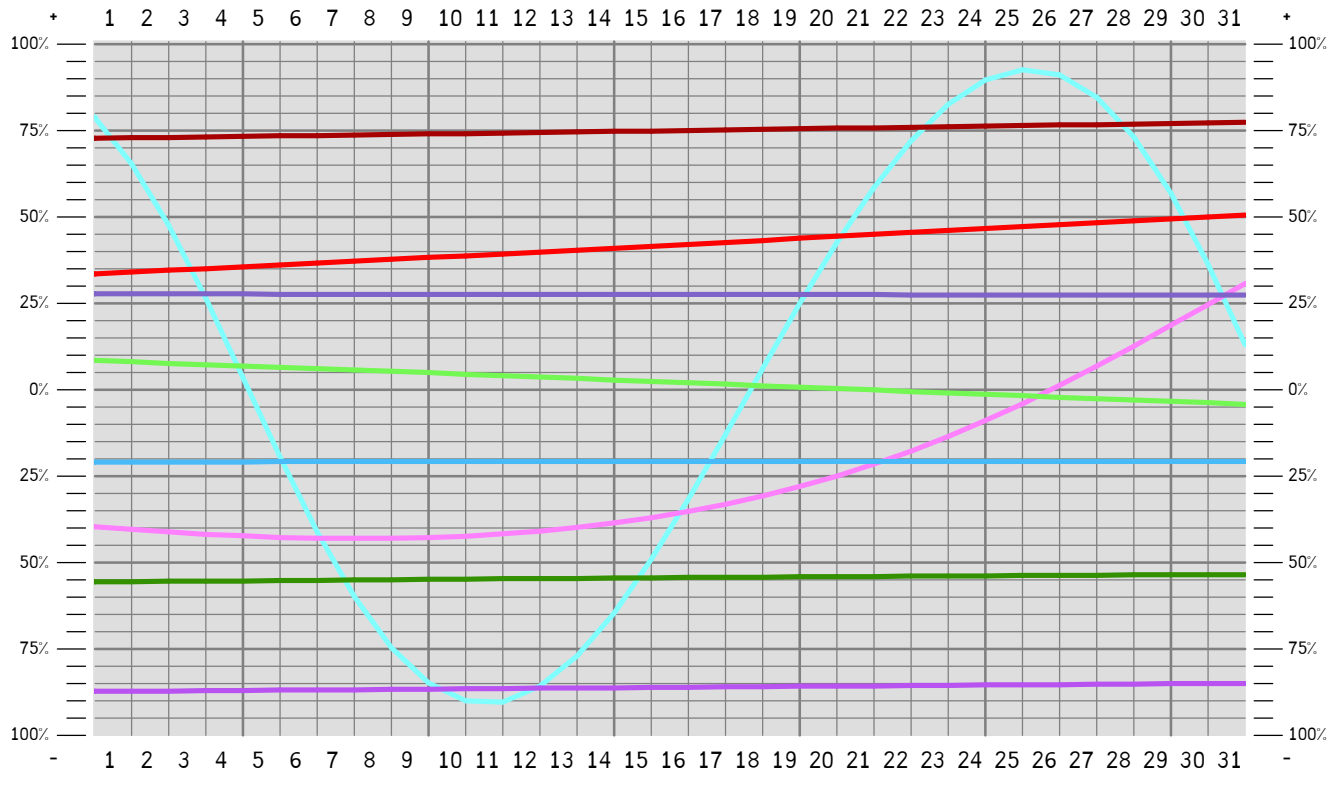
30		3 13'20	0 59'07	0 21'35	3 40'30	0 56'11	2 16'42	0 44'51	0 25'06	5 06'06
31		2 03'11	1 18'43	0 23'54	3 42'59	0 56'08	2 16'59	0 44'48	0 25'06	5 06'02

Geocentric Latitudes — Greenwich Mean Time - 0:00 (UT)



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KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Speed Greenwich Mean Time - 0:00 (UT)

	☉		☽		☿		♀		♂		♃		♄		♅		♆		♇	
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11	1	00°59	13	24°45	1	23°07	1	15°30	0	07°06	0	09°58	0	03°30	0	00°28	0	01°12	0	02°08
12	1	01°00	13	10°50	1	21°34	1	15°30	0	06°24	0	10°06	0	03°25	0	00°31	0	01°14	0	02°08
13	1	01°01	12	57°26	1	19°46	1	15°30	0	05°42	0	10°13	0	03°19	0	00°34	0	01°16	0	02°09
14	1	01°02	12	44°27	1	17°38	1	15°31	0	04°58	0	10°20	0	03°13	0	00°37	0	01°17	0	02°09
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19	1	01°06	11	52°17	1	00°29	1	15°31	0	01°13	0	10°54	0	02°44	0	00°53	0	01°26	0	02°10
20	1	01°06	11	47°42	0	55°18	1	15°31	0	00°26	0	11°00	0	02°38	0	00°56	0	01°28	0	02°11
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22	1	01°07	11	49°25	0	42°35	1	15°31	0	01°08	0	11°13	0	02°25	0	01°02	0	01°31	0	02°11
23	1	01°07	11	56°48	0	34°57	1	15°31	0	01°56	0	11°19	0	02°19	0	01°05	0	01°32	0	02°11
24	1	01°07	12	09°01	0	26°24	1	15°31	0	02°45	0	11°24	0	02°13	0	01°08	0	01°34	0	02°11
25	1	01°07	12	26°02	0	16°57	1	15°31	0	03°33	0	11°30	0	02°07	0	01°11	0	01°35	0	02°11
26	1	01°07	12	47°32	0	06°39	1	15°31	0	04°22	0	11°36	0	02°01	0	01°14	0	01°37	0	02°11
27	1	01°07	13	12°38	0	04°23	1	15°30	0	05°11	0	11°42	0	01°54	0	01°17	0	01°38	0	02°11
28	1	01°07	13	39°43	0	15°59	1	15°30	0	05°59	0	11°47	0	01°48	0	01°19	0	01°40	0	02°11
29	1	01°08	14	06°49	0	27°51	1	15°30	0	06°49	0	11°53	0	01°42	0	01°22	0	01°41	0	02°11
30	1	01°08	14	31°17	0	39°37	1	15°30	0	07°38	0	11°58	0	01°36	0	01°25	0	01°43	0	02°11
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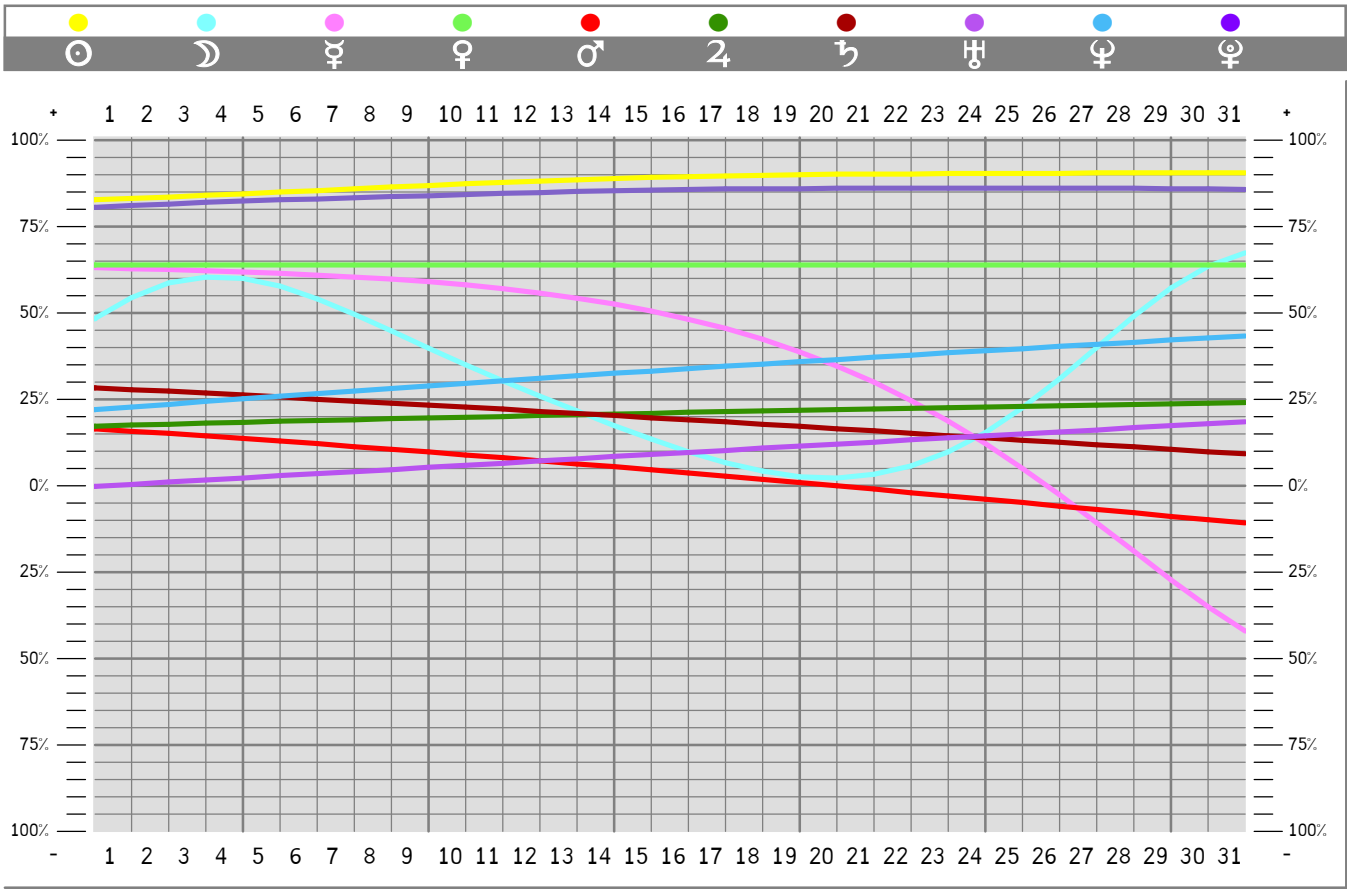

Speed Greenwich Mean Time - 0:00 (UT)

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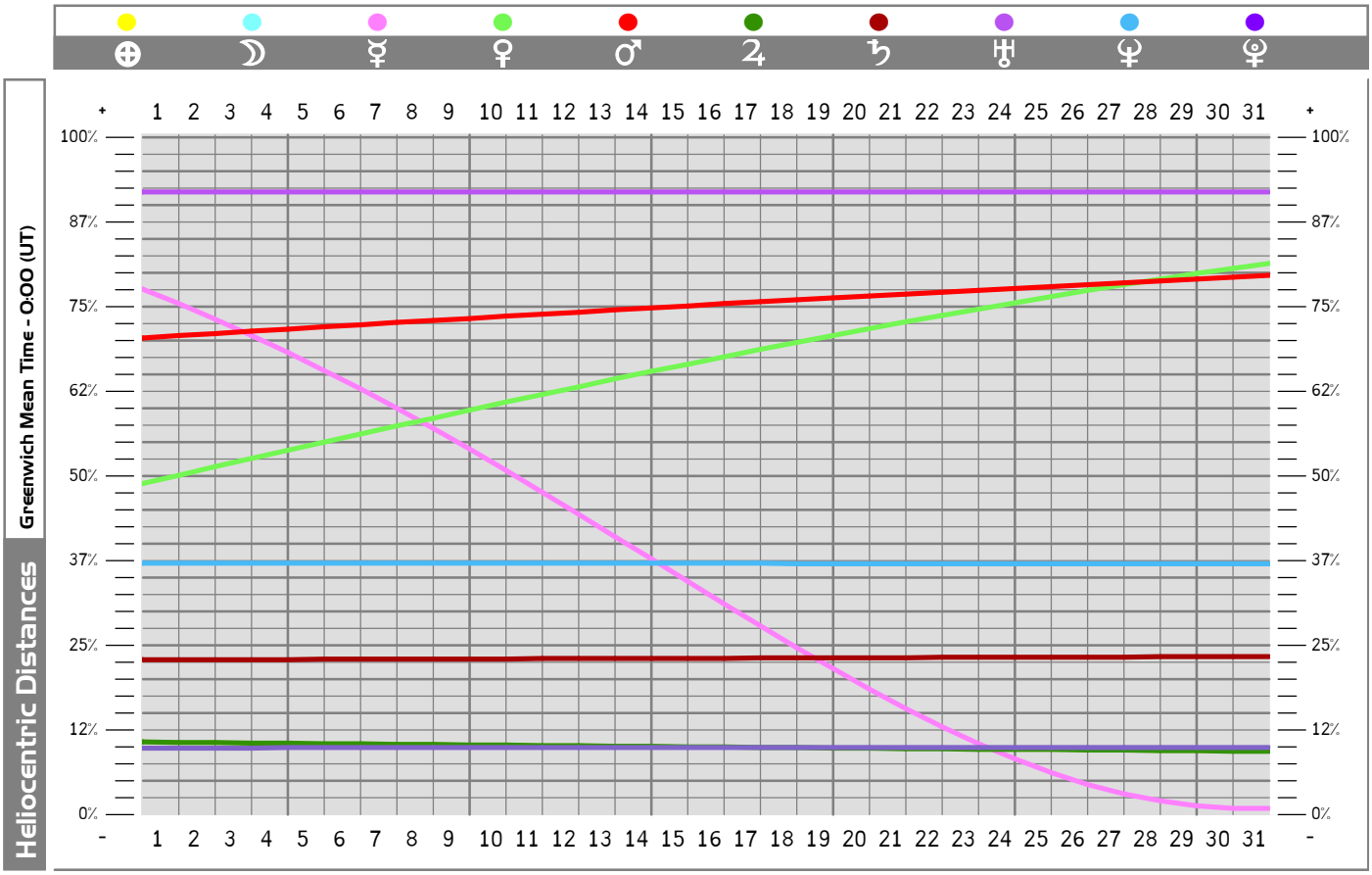
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Heliocentric Distances

Greenwich Mean Time - 0:00 (UT)

	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇
1	0.9860	0.9884	0.4417	0.7235	1.5984	5.1090	9.4657	20.9720	30.2530	31.7468
2	0.9859	0.9883	0.4380	0.7237	1.5994	5.1070	9.4660	20.9720	30.2530	31.7473
3	0.9857	0.9881	0.4340	0.7238	1.6005	5.1040	9.4663	20.9720	30.2520	31.7478
4	0.9856	0.9878	0.4298	0.7240	1.6015	5.1020	9.4666	20.9720	30.2520	31.7483
5	0.9854	0.9874	0.4254	0.7241	1.6026	5.0099	9.4669	20.9720	30.2520	31.7489
6	0.9853	0.9869	0.4207	0.7242	1.6036	5.0097	9.4672	20.9720	30.2520	31.7494
7	0.9852	0.9863	0.4159	0.7244	1.6046	5.0094	9.4675	20.9720	30.2510	31.7499
8	0.9850	0.9856	0.4109	0.7245	1.6056	5.0092	9.4678	20.9710	30.2510	31.7504
9	0.9849	0.9849	0.4057	0.7246	1.6066	5.0089	9.4681	20.9710	30.2510	31.7509
10	0.9848	0.9843	0.4003	0.7248	1.6076	5.0087	9.4684	20.9710	30.2510	31.7515
11	0.9847	0.9836	0.3948	0.7249	1.6086	5.0084	9.4687	20.9710	30.2500	31.7520
12	0.9846	0.9830	0.3892	0.7250	1.6096	5.0082	9.4690	20.9710	30.2500	31.7525
13	0.9845	0.9825	0.3835	0.7251	1.6106	5.0079	9.4693	20.9710	30.2500	31.7530
14	0.9844	0.9821	0.3778	0.7253	1.6116	5.0077	9.4696	20.9710	30.2490	31.7535
15	0.9843	0.9818	0.3720	0.7254	1.6125	5.0074	9.4699	20.9710	30.2490	31.7540
16	0.9842	0.9815	0.3662	0.7255	1.6135	5.0072	9.4702	20.9710	30.2490	31.7546
17	0.9841	0.9814	0.3604	0.7256	1.6144	5.0069	9.4705	20.9700	30.2490	31.7551
18	0.9840	0.9814	0.3547	0.7258	1.6154	5.0067	9.4708	20.9700	30.2480	31.7556
19	0.9839	0.9815	0.3491	0.7259	1.6163	5.0065	9.4711	20.9700	30.2480	31.7561
20	0.9838	0.9817	0.3436	0.7260	1.6172	5.0062	9.4714	20.9700	30.2480	31.7566
21	0.9838	0.9820	0.3384	0.7261	1.6181	5.0060	9.4717	20.9700	30.2480	31.7572
22	0.9837	0.9823	0.3333	0.7262	1.6191	5.0057	9.4720	20.9700	30.2470	31.7577
23	0.9836	0.9827	0.3286	0.7263	1.6200	5.0055	9.4723	20.9700	30.2470	31.7582
24	0.9836	0.9832	0.3243	0.7264	1.6209	5.0052	9.4726	20.9700	30.2470	31.7587
25	0.9835	0.9836	0.3203	0.7265	1.6217	5.0050	9.4729	20.9690	30.2460	31.7592
26	0.9834	0.9841	0.3168	0.7266	1.6226	5.0048	9.4733	20.9690	30.2460	31.7597
27	0.9834	0.9845	0.3138	0.7267	1.6235	5.0045	9.4736	20.9690	30.2460	31.7603
28	0.9834	0.9849	0.3113	0.7268	1.6244	5.0043	9.4739	20.9690	30.2460	31.7608
29	0.9833	0.9853	0.3094	0.7269	1.6252	5.0040	9.4742	20.9690	30.2450	31.7613
30	0.9833	0.9855	0.3082	0.7270	1.6261	5.0038	9.4745	20.9690	30.2450	31.7618
31	0.9833	0.9856	0.3075	0.7271	1.6269	5.0036	9.4748	20.9690	30.2450	31.7623



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KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

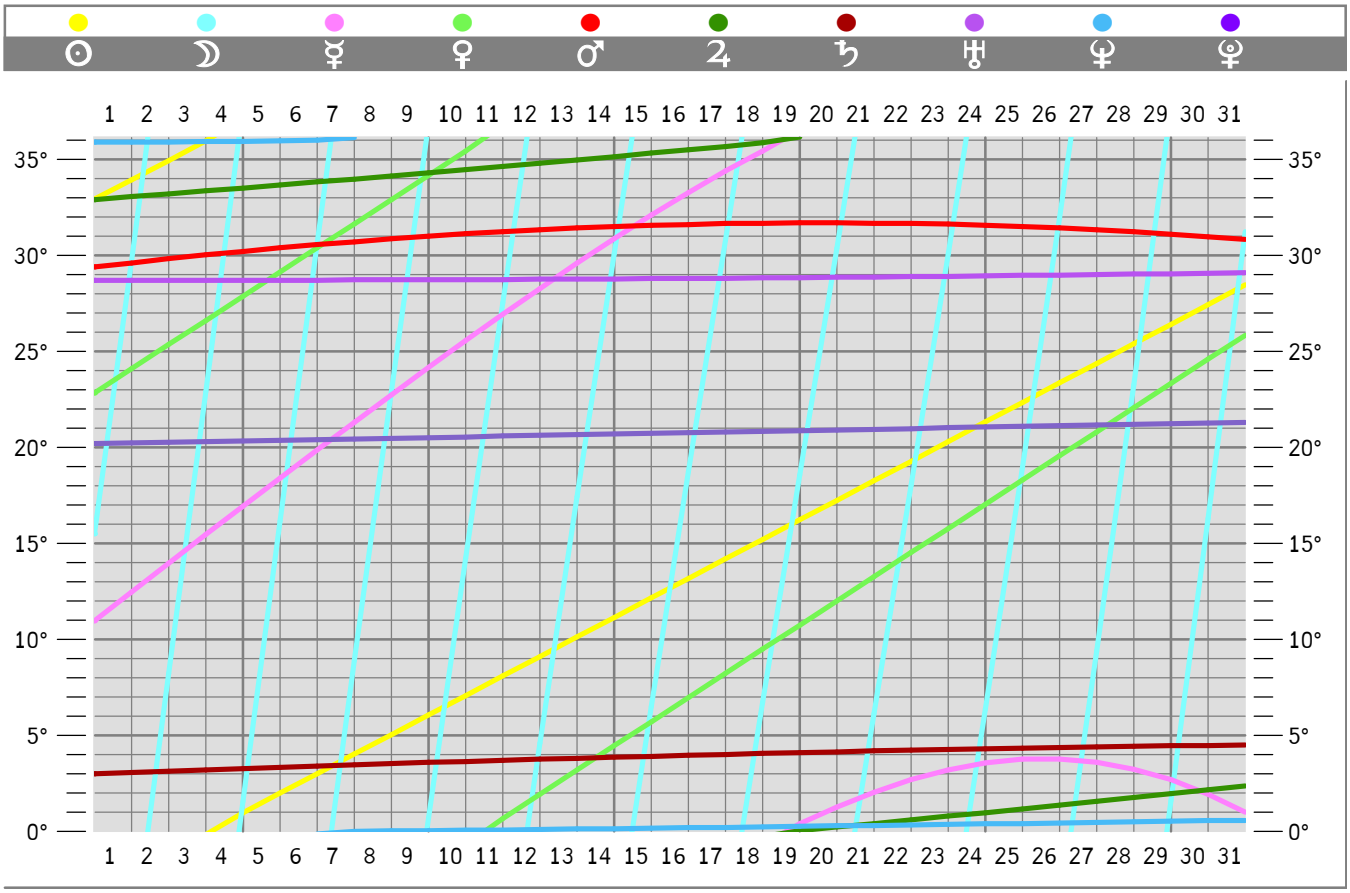
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — 10th Harmonic

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	32°55'16''	15°29'54''	5°15'33''	10°57'49''	22°50'41''	29°23'40''	32°54'34''	2°59'05''	28°42'17''	35°53'09''	20°12'06''
2	33°56'04	29°44'20	5°12'22	12°27'56	24°06'06	29°36'44	33°03'19	3°03'26	28°42'16	35°54'03	20°14'08
3	34°56'52	8°14'17	5°09'12	13°57'41	25°21'32	29°49'14	33°12'12	3°07'42	28°42'18	35°54'59	20°16'12
4	35°57'42	22°53'12	5°06'01	15°27'01	26°36'58	30°01'09	33°21'12	3°11'53	28°42'23	35°55'57	20°18'16
5	0°58'34	1°34'09	5°02'50	16°55'54	27°52'25	30°12'28	33°30'21	3°15'58	28°42'31	35°56'57	20°20'20
6	1°59'26	16°10'53	4°59'40	18°24'13	29°07'52	30°23'10	33°39'38	3°19'59	28°42'43	35°57'59	20°22'26
7	3°00'20	30°38'32	4°56'29	19°51'54	30°23'20	30°33'15	33°49'02	3°23'53	28°42'57	35°59'03	20°24'31
8	4°01'15	8°53'50	4°53'19	21°18'49	31°38'48	30°42'41	33°58'34	3°27'43	28°43'14	0°00'08	20°26'38
9	5°02'11	22°55'02	4°50'08	22°44'52	32°54'17	30°51'28	34°08'14	3°31'27	28°43'34	0°01'15	20°28'44
10	6°03'08	0°41'32	4°46'57	24°09'52	34°09'46	30°59'36	34°18'01	3°35'06	28°43'58	0°02'25	20°30'51
11	7°04'07	14°13'26	4°43'47	25°33'40	35°25'15	31°07'02	34°27'56	3°38'39	28°44'24	0°03'36	20°32'59
12	8°05'07	27°31'12	4°40'36	26°56'02	0°40'45	31°13'47	34°37'58	3°42'06	28°44'54	0°04'48	20°35'07
13	9°06'08	4°35'18	4°37'25	28°16'43	1°56'15	31°19'50	34°48'07	3°45'28	28°45'26	0°06'03	20°37'16
14	10°07'10	17°26'12	4°34'15	29°35'27	3°11'46	31°25'10	34°58'24	3°48'44	28°46'02	0°07'19	20°39'25
15	11°08'12	30°04'20	4°31'04	30°51'53	4°27'17	31°29'47	35°08'47	3°51'54	28°46'41	0°08'38	20°41'34
16	12°09'16	6°30'14	4°27'54	32°05'38	5°42'48	31°33'39	35°19'18	3°54'59	28°47'23	0°09'58	20°43'44
17	13°10'21	18°44'41	4°24'43	33°16'16	6°58'19	31°36'47	35°29'55	3°57'58	28°48'09	0°11'19	20°45'53
18	14°11'26	30°48'55	4°21'32	34°23'16	8°13'50	31°39'09	35°40'39	4°00'50	28°48'57	0°12'43	20°48'04
19	15°12'31	6°44'40	4°18'22	35°26'04	9°29'22	31°40'46	35°51'30	4°03'37	28°49'48	0°14'08	20°50'14
20	16°13'37	18°34'25	4°15'11	0°24'01	10°44'53	31°41'35	0°02'27	4°06'18	28°50'42	0°15'35	20°52'24
21	17°14'44	30°21'13	4°12'00	1°16'25	12°00'24	31°41'38	0°13'30	4°08'53	28°51'40	0°17'03	20°54'35
22	18°15'50	6°08'50	4°08'50	2°02'27	13°15'55	31°40'54	0°24'39	4°11'21	28°52'40	0°18'33	20°56'46
23	19°16'57	18°01'33	4°05'39	2°41'18	14°31'27	31°39'21	0°35'55	4°13'43	28°53'43	0°20'04	20°58'56
24	20°18'04	30°04'04	4°02'29	3°12'03	15°46'57	31°37'01	0°47'16	4°15'59	28°54'49	0°21'37	21°01'07
25	21°19'12	6°21'11	3°59'18	3°33'48	17°02'28	31°33'52	0°58'44	4°18'09	28°55'58	0°23'12	21°03'18
26	22°20'19	18°57'38	3°56'07	3°45'41	18°17'59	31°29'55	1°10'17	4°20'13	28°57'10	0°24'48	21°05'29
27	23°21'26	31°57'27	3°52'57	3°46'52	19°33'29	31°25'08	1°21'56	4°22'10	28°58'25	0°26'25	21°07'39
28	24°22'34	9°23'30	3°49'46	3°36'43	20°48'59	31°19'33	1°33'40	4°24'02	28°59'43	0°28'04	21°09'50
29	25°23'41	23°16'53	3°46'35	3°14'48	22°04'30	31°13'09	1°45'30	4°25'47	29°01'04	0°29'45	21°12'01
30	26°24'49	1°36'16	3°43'25	2°41'03	23°20'00	31°05'56	1°57'26	4°27'25	29°02'28	0°31'27	21°14'11
31	27°25'56	16°17'42	3°40'14	1°55'45	24°35'30	30°57'54	2°09'26	4°28'58	29°03'55	0°33'11	21°16'22

Geocentric Longitudes — 36° Graphic Ephemeris



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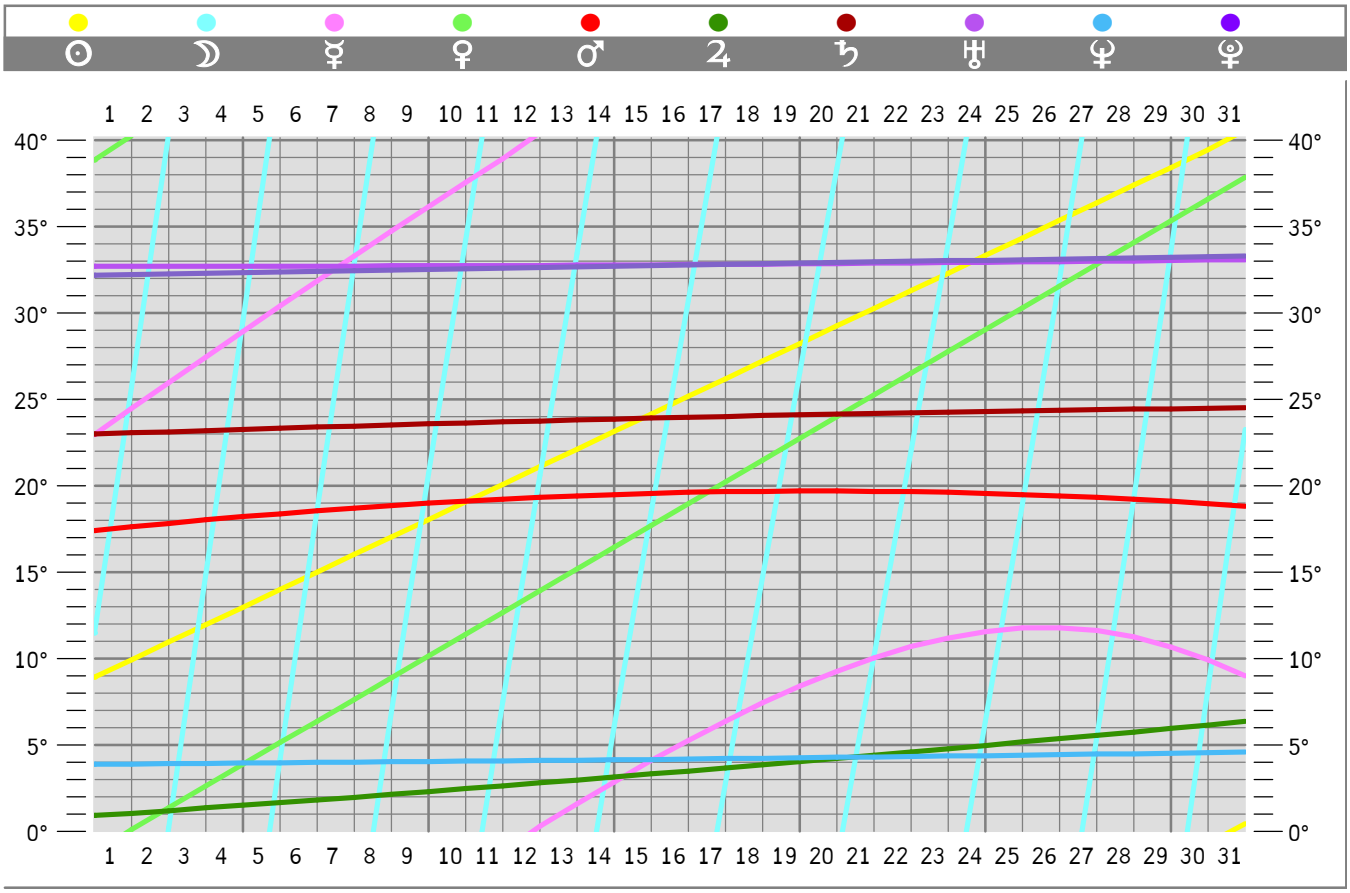
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

9th Harmonic Geocentric Longitudes

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	8°55'16''	11°29'54''	13°15'33''	22°57'49''	38°50'41''	17°23'40''	0°54'34''	22°59'05''	32°42'17''	3°53'09''	32°12'06''
2	9°56'04	25°44'20	13°12'22	24°27'56	0°06'06	17°36'44	1°03'19	23°03'26	32°42'16	3°54'03	32°14'08
3	10°56'52	0°14'17	13°09'12	25°57'41	1°21'32	17°49'14	1°12'12	23°07'42	32°42'18	3°54'59	32°16'12
4	11°57'42	14°53'12	13°06'01	27°27'01	2°36'58	18°01'09	1°21'12	23°11'53	32°42'23	3°55'57	32°18'16
5	12°58'34	29°34'09	13°02'50	28°55'54	3°52'25	18°12'28	1°30'21	23°15'58	32°42'31	3°56'57	32°20'20
6	13°59'26	4°10'53	12°59'40	30°24'13	5°07'52	18°23'10	1°39'38	23°19'59	32°42'43	3°57'59	32°22'26
7	15°00'20	18°38'32	12°56'29	31°51'54	6°23'20	18°33'15	1°49'02	23°23'53	32°42'57	3°59'03	32°24'31
8	16°01'15	32°53'50	12°53'19	33°18'49	7°38'48	18°42'41	1°58'34	23°27'43	32°43'14	4°00'08	32°26'38
9	17°02'11	6°55'02	12°50'08	34°44'52	8°54'17	18°51'28	2°08'14	23°31'27	32°43'34	4°01'15	32°28'44
10	18°03'08	20°41'32	12°46'57	36°09'52	10°09'46	18°59'36	2°18'01	23°35'06	32°43'58	4°02'25	32°30'51
11	19°04'07	34°13'26	12°43'47	37°33'40	11°25'15	19°07'02	2°27'56	23°38'39	32°44'24	4°03'36	32°32'59
12	20°05'07	7°31'12	12°40'36	38°56'02	12°40'45	19°13'47	2°37'58	23°42'06	32°44'54	4°04'48	32°35'07
13	21°06'08	20°35'18	12°37'25	0°16'43	13°56'15	19°19'50	2°48'07	23°45'28	32°45'26	4°06'03	32°37'16
14	22°07'10	33°26'12	12°34'15	1°35'27	15°11'46	19°25'10	2°58'24	23°48'44	32°46'02	4°07'19	32°39'25
15	23°08'12	6°04'20	12°31'04	2°51'53	16°27'17	19°29'47	3°08'47	23°51'54	32°46'41	4°08'38	32°41'34
16	24°09'16	18°30'14	12°27'54	4°05'38	17°42'48	19°33'39	3°19'18	23°54'59	32°47'23	4°09'58	32°43'44
17	25°10'21	30°44'41	12°24'43	5°16'16	18°58'19	19°36'47	3°29'55	23°57'58	32°48'09	4°11'19	32°45'53
18	26°11'26	2°48'55	12°21'32	6°23'16	20°13'50	19°39'09	3°40'39	24°00'50	32°48'57	4°12'43	32°48'04
19	27°12'31	14°44'40	12°18'22	7°26'04	21°29'22	19°40'46	3°51'30	24°03'37	32°49'48	4°14'08	32°50'14
20	28°13'37	26°34'25	12°15'11	8°24'01	22°44'53	19°41'35	4°02'27	24°06'18	32°50'42	4°15'35	32°52'24
21	29°14'44	38°21'13	12°12'00	9°16'25	24°00'24	19°41'38	4°13'30	24°08'53	32°51'40	4°17'03	32°54'35
22	30°15'50	10°08'50	12°08'50	10°02'27	25°15'55	19°40'54	4°24'39	24°11'21	32°52'40	4°18'33	32°56'46
23	31°16'57	22°01'33	12°05'39	10°41'18	26°31'27	19°39'21	4°35'55	24°13'43	32°53'43	4°20'04	32°58'56
24	32°18'04	34°04'04	12°02'29	11°12'03	27°46'57	19°37'01	4°47'16	24°15'59	32°54'49	4°21'37	33°01'07
25	33°19'12	6°21'11	11°59'18	11°33'48	29°02'28	19°33'52	4°58'44	24°18'09	32°55'58	4°23'12	33°03'18
26	34°20'19	18°57'38	11°56'07	11°45'41	30°17'59	19°29'55	5°10'17	24°20'13	32°57'10	4°24'48	33°05'29
27	35°21'26	31°57'27	11°52'57	11°46'52	31°33'29	19°25'08	5°21'56	24°22'10	32°58'25	4°26'25	33°07'39
28	36°22'34	5°23'30	11°49'46	11°36'43	32°48'59	19°19'33	5°33'40	24°24'02	32°59'43	4°28'04	33°09'50
29	37°23'41	19°16'53	11°46'35	11°14'48	34°04'30	19°13'09	5°45'30	24°25'47	33°01'04	4°29'45	33°12'01
30	38°24'49	33°36'16	11°43'25	10°41'03	35°20'00	19°05'56	5°57'26	24°27'25	33°02'28	4°31'27	33°14'11
31	39°25'56	8°17'42	11°40'14	9°55'45	36°35'30	18°57'54	6°09'26	24°28'58	33°03'55	4°33'11	33°16'22

40° Graphic Ephemeris Geocentric Longitudes



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KHALDEA Ephemeris 7z
JPL 405 Unsurpassed Accuracy

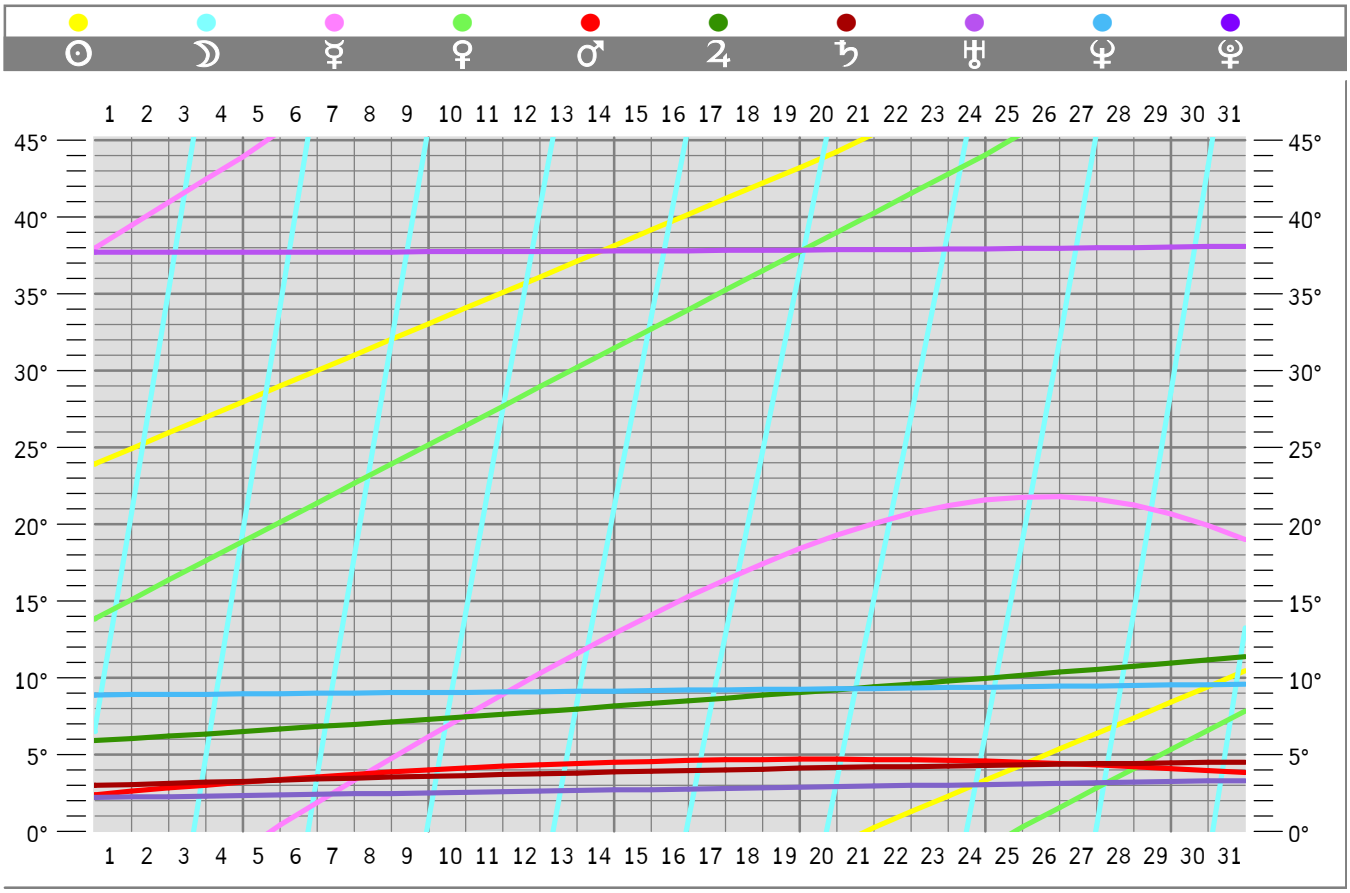
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — 8th Harmonic

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	23°55'16''	6°29'54''	23°15'33''	37°57'49''	13°50'41''	2°23'40''	5°54'34''	2°59'05''	37°42'17''	8°53'09''	2°12'06''
2	24°56'04	20°44'20	23°12'22	39°27'56	15°06'06	2°36'44	6°03'19	3°03'26	37°42'16	8°54'03	2°14'08
3	25°56'52	35°14'17	23°09'12	40°57'41	16°21'32	2°49'14	6°12'12	3°07'42	37°42'18	8°54'59	2°16'12
4	26°57'42	4°53'12	23°06'01	42°27'01	17°36'58	3°01'09	6°21'12	3°11'53	37°42'23	8°55'57	2°18'16
5	27°58'34	19°34'09	23°02'50	43°55'54	18°52'25	3°12'28	6°30'21	3°15'58	37°42'31	8°56'57	2°20'20
6	28°59'26	34°10'53	22°59'40	0°24'13	20°07'52	3°23'10	6°39'38	3°19'59	37°42'43	8°57'59	2°22'26
7	30°00'20	3°38'32	22°56'29	1°51'54	21°23'20	3°33'15	6°49'02	3°23'53	37°42'57	8°59'03	2°24'31
8	31°01'15	17°53'50	22°53'19	3°18'49	22°38'48	3°42'41	6°58'34	3°27'43	37°43'14	9°00'08	2°26'38
9	32°02'11	31°55'02	22°50'08	4°44'52	23°54'17	3°51'28	7°08'14	3°31'27	37°43'34	9°01'15	2°28'44
10	33°03'08	0°41'32	22°46'57	6°09'52	25°09'46	3°59'36	7°18'01	3°35'06	37°43'58	9°02'25	2°30'51
11	34°04'07	14°13'26	22°43'47	7°33'40	26°25'15	4°07'02	7°27'56	3°38'39	37°44'24	9°03'36	2°32'59
12	35°05'07	27°31'12	22°40'36	8°56'02	27°40'45	4°13'47	7°37'58	3°42'06	37°44'54	9°04'48	2°35'07
13	36°06'08	40°35'18	22°37'25	10°16'43	28°56'15	4°19'50	7°48'07	3°45'28	37°45'26	9°06'03	2°37'16
14	37°07'10	8°26'12	22°34'15	11°35'27	30°11'46	4°25'10	7°58'24	3°48'44	37°46'02	9°07'19	2°39'25
15	38°08'12	21°04'20	22°31'04	12°51'53	31°27'17	4°29'47	8°08'47	3°51'54	37°46'41	9°08'38	2°41'34
16	39°09'16	33°30'14	22°27'54	14°05'38	32°42'48	4°33'39	8°19'18	3°54'59	37°47'23	9°09'58	2°43'44
17	40°10'21	0°44'41	22°24'43	15°16'16	33°58'19	4°36'47	8°29'55	3°57'58	37°48'09	9°11'19	2°45'53
18	41°11'26	12°48'55	22°21'32	16°23'16	35°13'50	4°39'09	8°40'39	4°00'50	37°48'57	9°12'43	2°48'04
19	42°12'31	24°44'40	22°18'22	17°26'04	36°29'22	4°40'46	8°51'30	4°03'37	37°49'48	9°14'08	2°50'14
20	43°13'37	36°34'25	22°15'11	18°24'01	37°44'53	4°41'35	9°02'27	4°06'18	37°50'42	9°15'35	2°52'24
21	44°14'44	3°21'13	22°12'00	19°16'25	39°00'24	4°41'38	9°13'30	4°08'53	37°51'40	9°17'03	2°54'35
22	0°15'50	15°08'50	22°08'50	20°02'27	40°15'55	4°40'54	9°24'39	4°11'21	37°52'40	9°18'33	2°56'46
23	1°16'57	27°01'33	22°05'39	20°41'18	41°31'27	4°39'21	9°35'55	4°13'43	37°53'43	9°20'04	2°58'56
24	2°18'04	39°04'04	22°02'29	21°12'03	42°46'57	4°37'01	9°47'16	4°15'59	37°54'49	9°21'37	3°01'07
25	3°19'12	6°21'11	21°59'18	21°33'48	44°02'28	4°33'52	9°58'44	4°18'09	37°55'58	9°23'12	3°03'18
26	4°20'19	18°57'38	21°56'07	21°45'41	0°17'59	4°29'55	10°10'17	4°20'13	37°57'10	9°24'48	3°05'29
27	5°21'26	31°57'27	21°52'57	21°46'52	1°33'29	4°25'08	10°21'56	4°22'10	37°58'25	9°26'25	3°07'39
28	6°22'34	0°23'30	21°49'46	21°36'43	2°48'59	4°19'33	10°33'40	4°24'02	37°59'43	9°28'04	3°09'50
29	7°23'41	14°16'53	21°46'35	21°14'48	4°04'30	4°13'09	10°45'30	4°25'47	38°01'04	9°29'45	3°12'01
30	8°24'49	28°36'16	21°43'25	20°41'03	5°20'00	4°05'56	10°57'26	4°27'25	38°02'28	9°31'27	3°14'11
31	9°25'56	43°17'42	21°40'14	19°55'45	6°35'30	3°57'54	11°09'26	4°28'58	38°03'55	9°33'11	3°16'22

Geocentric Longitudes — 45° Graphic Ephemeris



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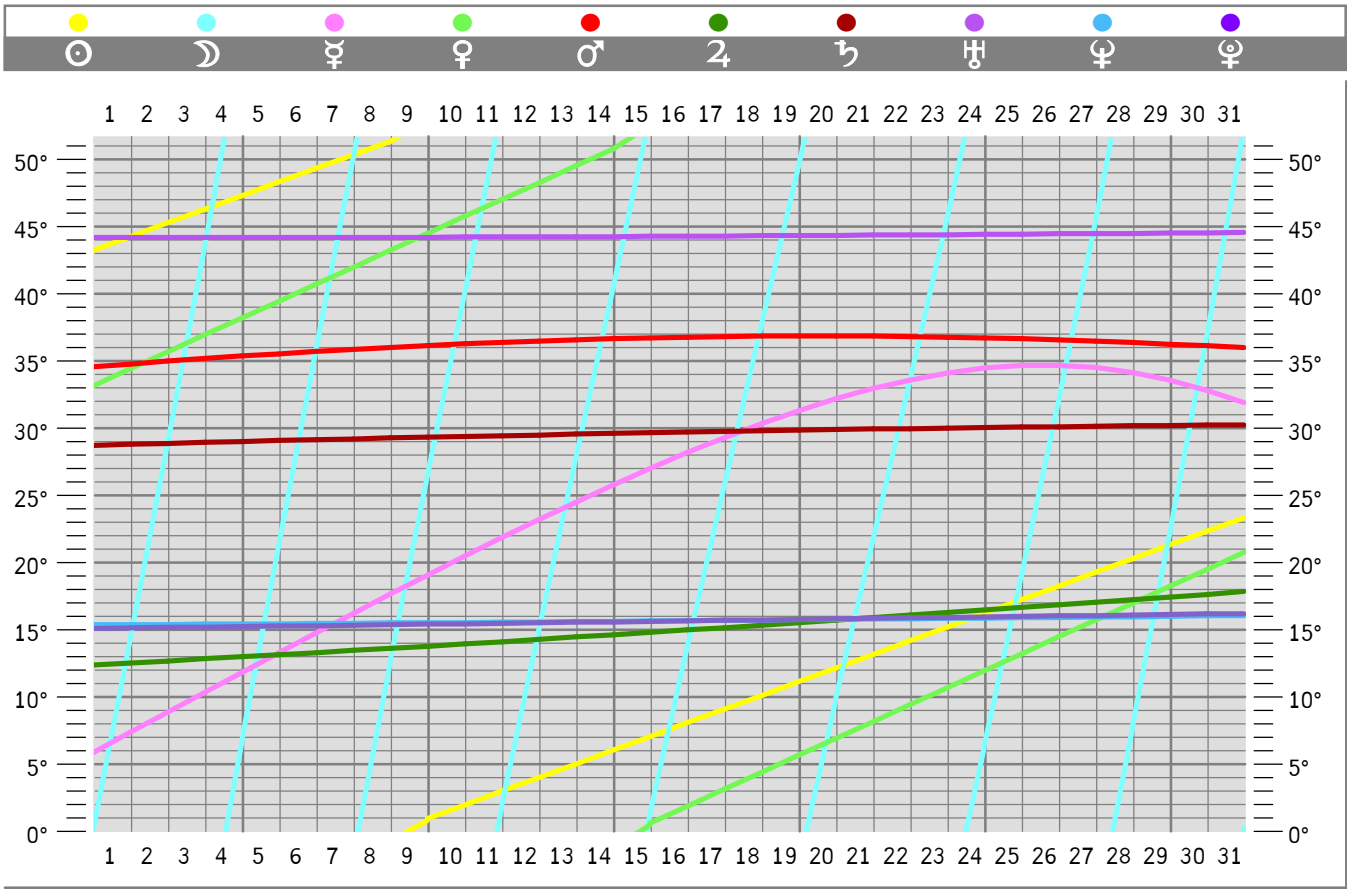
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — 7th Harmonic

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	43°12'24''	0°04'11''	36°06'59''	5°49'15''	33°07'49''	34°32'14''	12°20'17''	28°41'57''	44°08'00''	15°18'52''	15°03'31''
2	44°13'12	14°18'37	36°03'48	7°19'21	34°23'14	34°45'19	12°29'02	28°46'18	44°07'59	15°19'46	15°05'34
3	45°14'01	28°48'35	36°00'37	8°49'07	35°38'40	34°57'49	12°37'54	28°50'34	44°08'01	15°20'42	15°07'37
4	46°14'51	43°27'29	35°57'27	10°18'27	36°54'07	35°09'44	12°46'55	28°54'44	44°08'06	15°21'40	15°09'42
5	47°15'42	6°42'43	35°54'16	11°47'19	38°09'33	35°21'02	12°56'04	28°58'50	44°08'14	15°22'40	15°11'46
6	48°16'35	21°19'27	35°51'06	13°15'39	39°25'01	35°31'45	13°05'21	29°02'50	44°08'26	15°23'42	15°13'51
7	49°17'28	35°47'06	35°47'55	14°43'19	40°40'28	35°41'49	13°14'45	29°06'45	44°08'40	15°24'46	15°15'57
8	50°18'23	50°02'24	35°44'44	16°10'15	41°55'57	35°51'16	13°24'17	29°10'34	44°08'57	15°25'51	15°18'03
9	51°19'19	12°37'53	35°41'34	17°36'17	43°11'25	36°00'03	13°33'57	29°14'18	44°09'17	15°26'58	15°20'10
10	0°54'34	26°24'23	35°38'23	19°01'18	44°26'54	36°08'10	13°43'44	29°17'57	44°09'41	15°28'07	15°22'17
11	1°55'33	39°56'18	35°35'12	20°25'05	45°42'24	36°15'36	13°53'39	29°21'30	44°10'07	15°29'18	15°24'25
12	2°56'32	1°48'20	35°32'02	21°47'27	46°57'54	36°22'22	14°03'41	29°24'57	44°10'37	15°30'31	15°26'33
13	3°57'33	14°52'26	35°28'51	23°08'09	48°13'24	36°28'25	14°13'50	29°28'19	44°11'09	15°31'46	15°28'41
14	4°58'35	27°43'20	35°25'41	24°26'53	49°28'54	36°33'45	14°24'07	29°31'35	44°11'45	15°33'02	15°30'50
15	5°59'38	40°21'29	35°22'30	25°43'19	50°44'25	36°38'21	14°34'30	29°34'46	44°12'24	15°34'21	15°32'59
16	7°00'42	1°21'40	35°19'19	26°57'04	0°34'14	36°42'14	14°45'01	29°37'50	44°13'06	15°35'41	15°35'09
17	8°01'46	13°36'07	35°16'09	28°07'42	1°49'45	36°45'21	14°55'38	29°40'49	44°13'51	15°37'02	15°37'19
18	9°02'51	25°40'20	35°12'58	29°14'42	3°05'16	36°47'44	15°06'22	29°43'42	44°14'40	15°38'26	15°39'29
19	10°03'57	37°36'06	35°09'47	30°17'30	4°20'47	36°49'20	15°17'13	29°46'29	44°15'31	15°39'51	15°41'40
20	11°05'03	49°25'50	35°06'37	31°15'27	5°36'19	36°50'10	15°28'10	29°49'09	44°16'25	15°41'17	15°43'50
21	12°06'09	9°46'56	35°03'26	32°07'51	6°51'50	36°50'12	15°39'13	29°51'44	44°17'22	15°42'46	15°46'01
22	13°07'16	21°34'33	35°00'16	32°53'53	8°07'21	36°49'28	15°50'22	29°54'12	44°18'23	15°44'16	15°48'11
23	14°08'23	33°27'16	34°57'05	33°32'43	9°22'52	36°47'56	16°01'38	29°56'35	44°19'26	15°45'47	15°50'22
24	15°09'30	45°29'46	34°53'54	34°03'29	10°38'23	36°45'35	16°12'59	29°58'51	44°20'32	15°47'20	15°52'33
25	16°10'37	6°21'11	34°50'44	34°25'14	11°53'54	36°42'26	16°24'27	30°01'01	44°21'41	15°48'55	15°54'44
26	17°11'45	18°57'38	34°47'33	34°37'06	13°09'25	36°38'29	16°35'59	30°03'04	44°22'53	15°50'31	15°56'54
27	18°12'52	31°57'27	34°44'22	34°38'18	14°24'55	36°33'43	16°47'39	30°05'02	44°24'08	15°52'08	15°59'05
28	19°13'59	45°23'30	34°41'12	34°28'09	15°40'25	36°28'08	16°59'23	30°06'53	44°25'26	15°53'47	16°01'16
29	20°15'07	7°51'10	34°38'01	34°06'14	16°55'56	36°21'44	17°11'13	30°08'38	44°26'47	15°55'28	16°03'26
30	21°16'15	22°10'34	34°34'51	33°32'28	18°11'26	36°14'31	17°23'08	30°10'17	44°28'11	15°57'10	16°05'37
31	22°17'22	36°51'59	34°31'40	32°47'11	19°26'56	36°06'28	17°35'09	30°11'49	44°29'38	15°58'54	16°07'47

Geocentric Longitudes — 51.42857° Graphic Ephemeris



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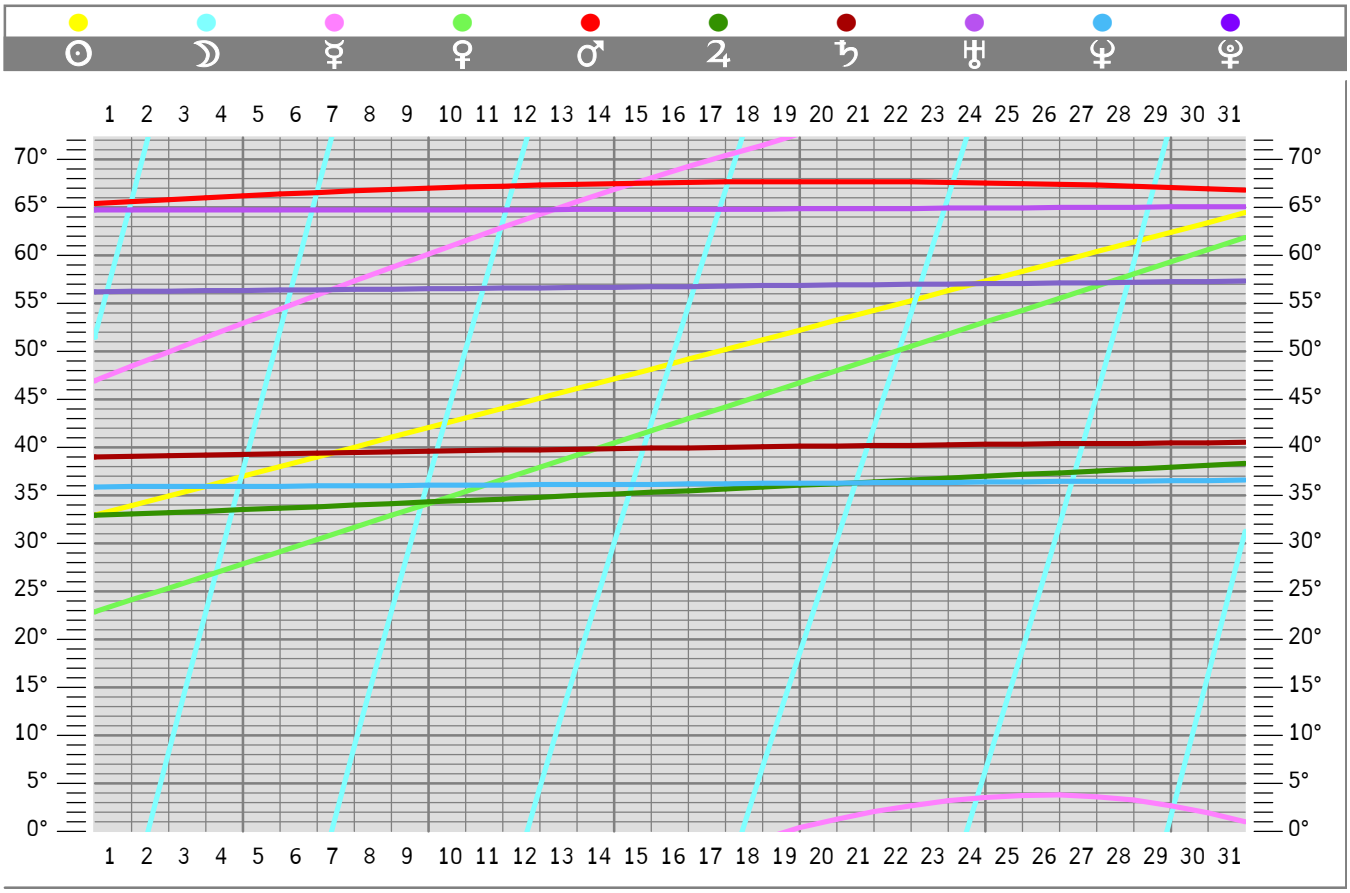
DECEMBER 2009

Obliquity: 23°26'20" DeltaT: 66.9000 sec.

Geocentric Longitudes — 5th Harmonic

	☉	☽	☊	☿	♀	♂	♃	♄	♅	♆	♇
1	32°55'16''	51°29'54''	5°15'33''	46°57'49''	22°50'41''	65°23'40''	32°54'34''	38°59'05''	64°42'17''	35°53'09''	56°12'06''
2	33°56'04	65°44'20	5°12'22	48°27'56	24°06'06	65°36'44	33°03'19	39°03'26	64°42'16	35°54'03	56°14'08
3	34°56'52	8°14'17	5°09'12	49°57'41	25°21'32	65°49'14	33°12'12	39°07'42	64°42'18	35°54'59	56°16'12
4	35°57'42	22°53'12	5°06'01	51°27'01	26°36'58	66°01'09	33°21'12	39°11'53	64°42'23	35°55'57	56°18'16
5	36°58'34	37°34'09	5°02'50	52°55'54	27°52'25	66°12'28	33°30'21	39°15'58	64°42'31	35°56'57	56°20'20
6	37°59'26	52°10'53	4°59'40	54°24'13	29°07'52	66°23'10	33°39'38	39°19'59	64°42'43	35°57'59	56°22'26
7	39°00'20	66°38'32	4°56'29	55°51'54	30°23'20	66°33'15	33°49'02	39°23'53	64°42'57	35°59'03	56°24'31
8	40°01'15	8°53'50	4°53'19	57°18'49	31°38'48	66°42'41	33°58'34	39°27'43	64°43'14	36°00'08	56°26'38
9	41°02'11	22°55'02	4°50'08	58°44'52	32°54'17	66°51'28	34°08'14	39°31'27	64°43'34	36°01'15	56°28'44
10	42°03'08	36°41'32	4°46'57	60°09'52	34°09'46	66°59'36	34°18'01	39°35'06	64°43'58	36°02'25	56°30'51
11	43°04'07	50°13'26	4°43'47	61°33'40	35°25'15	67°07'02	34°27'56	39°38'39	64°44'24	36°03'36	56°32'59
12	44°05'07	63°31'12	4°40'36	62°56'02	36°40'45	67°13'47	34°37'58	39°42'06	64°44'54	36°04'48	56°35'07
13	45°06'08	4°35'18	4°37'25	64°16'43	37°56'15	67°19'50	34°48'07	39°45'28	64°45'26	36°06'03	56°37'16
14	46°07'10	17°26'12	4°34'15	65°35'27	39°11'46	67°25'10	34°58'24	39°48'44	64°46'02	36°07'19	56°39'25
15	47°08'12	30°04'20	4°31'04	66°51'53	40°27'17	67°29'47	35°08'47	39°51'54	64°46'41	36°08'38	56°41'34
16	48°09'16	42°30'14	4°27'54	68°05'38	41°42'48	67°33'39	35°19'18	39°54'59	64°47'23	36°09'58	56°43'44
17	49°10'21	54°44'41	4°24'43	69°16'16	42°58'19	67°36'47	35°29'55	39°57'58	64°48'09	36°11'19	56°45'53
18	50°11'26	66°48'55	4°21'32	70°23'16	44°13'50	67°39'09	35°40'39	40°00'50	64°48'57	36°12'43	56°48'04
19	51°12'31	6°44'40	4°18'22	71°26'04	45°29'22	67°40'46	35°51'30	40°03'37	64°49'48	36°14'08	56°50'14
20	52°13'37	18°34'25	4°15'11	0°24'01	46°44'53	67°41'35	36°02'27	40°06'18	64°50'42	36°15'35	56°52'24
21	53°14'44	30°21'13	4°12'00	1°16'25	48°00'24	67°41'38	36°13'30	40°08'53	64°51'40	36°17'03	56°54'35
22	54°15'50	42°08'50	4°08'50	2°02'27	49°15'55	67°40'54	36°24'39	40°11'21	64°52'40	36°18'33	56°56'46
23	55°16'57	54°01'33	4°05'39	2°41'18	50°31'27	67°39'21	36°35'55	40°13'43	64°53'43	36°20'04	56°58'56
24	56°18'04	66°04'04	4°02'29	3°12'03	51°46'57	67°37'01	36°47'16	40°15'59	64°54'49	36°21'37	57°01'07
25	57°19'12	6°21'11	3°59'18	3°33'48	53°02'28	67°33'52	36°58'44	40°18'09	64°55'58	36°23'12	57°03'18
26	58°20'19	18°57'38	3°56'07	3°45'41	54°17'59	67°29'55	37°10'17	40°20'13	64°57'10	36°24'48	57°05'29
27	59°21'26	31°57'27	3°52'57	3°46'52	55°33'29	67°25'08	37°21'56	40°22'10	64°58'25	36°26'25	57°07'39
28	60°22'34	45°23'30	3°49'46	3°36'43	56°48'59	67°19'33	37°33'40	40°24'02	64°59'43	36°28'04	57°09'50
29	61°23'41	59°16'53	3°46'35	3°14'48	58°04'30	67°13'09	37°45'30	40°25'47	65°01'04	36°29'45	57°12'01
30	62°24'49	1°36'16	3°43'25	2°41'03	59°20'00	67°05'56	37°57'26	40°27'25	65°02'28	36°31'27	57°14'11
31	63°25'56	16°17'42	3°40'14	1°55'45	60°35'30	66°57'54	38°09'26	40°28'58	65°03'55	36°33'11	57°16'22

Geocentric Longitudes — 72° Graphic Ephemeris



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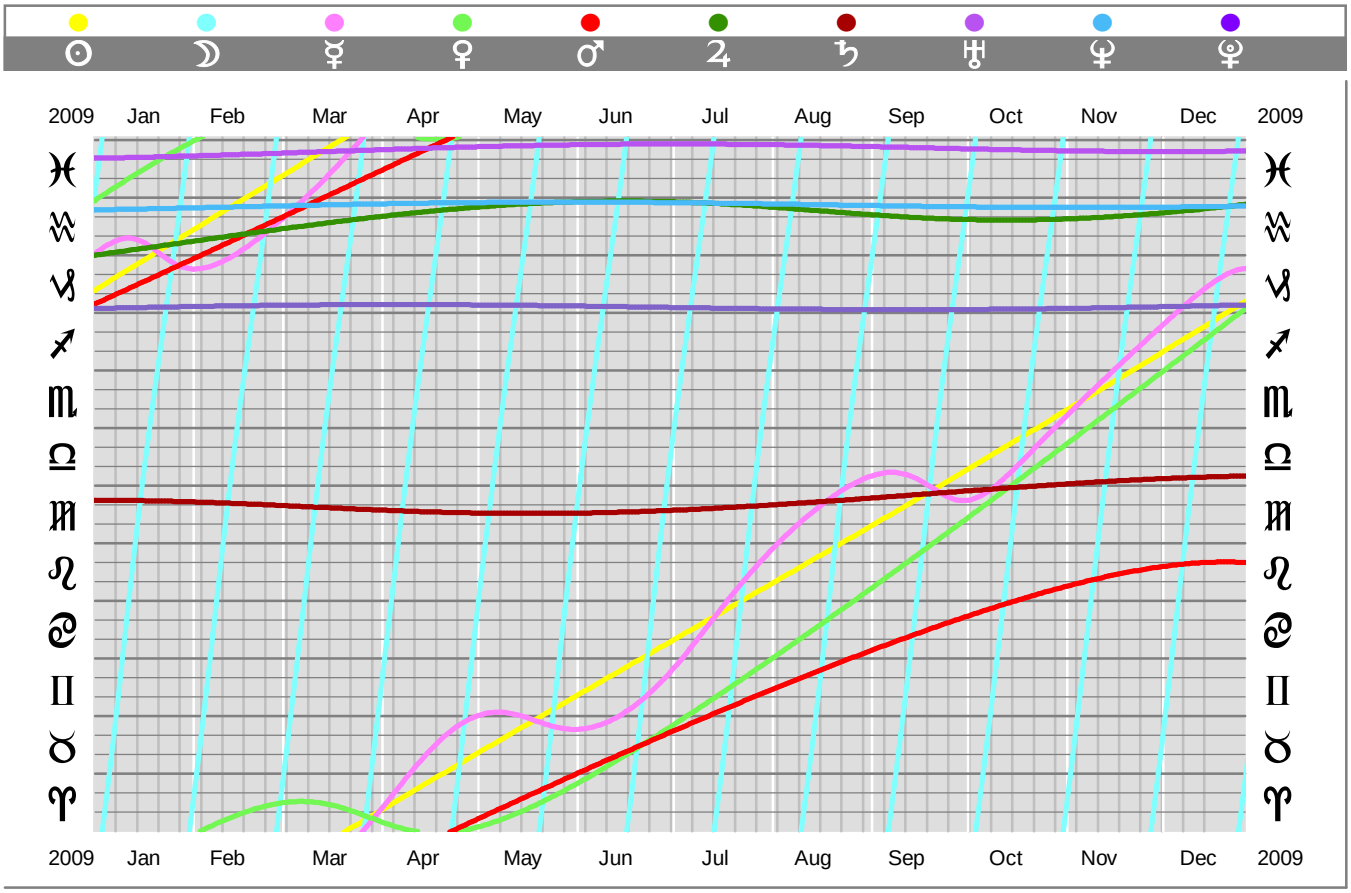
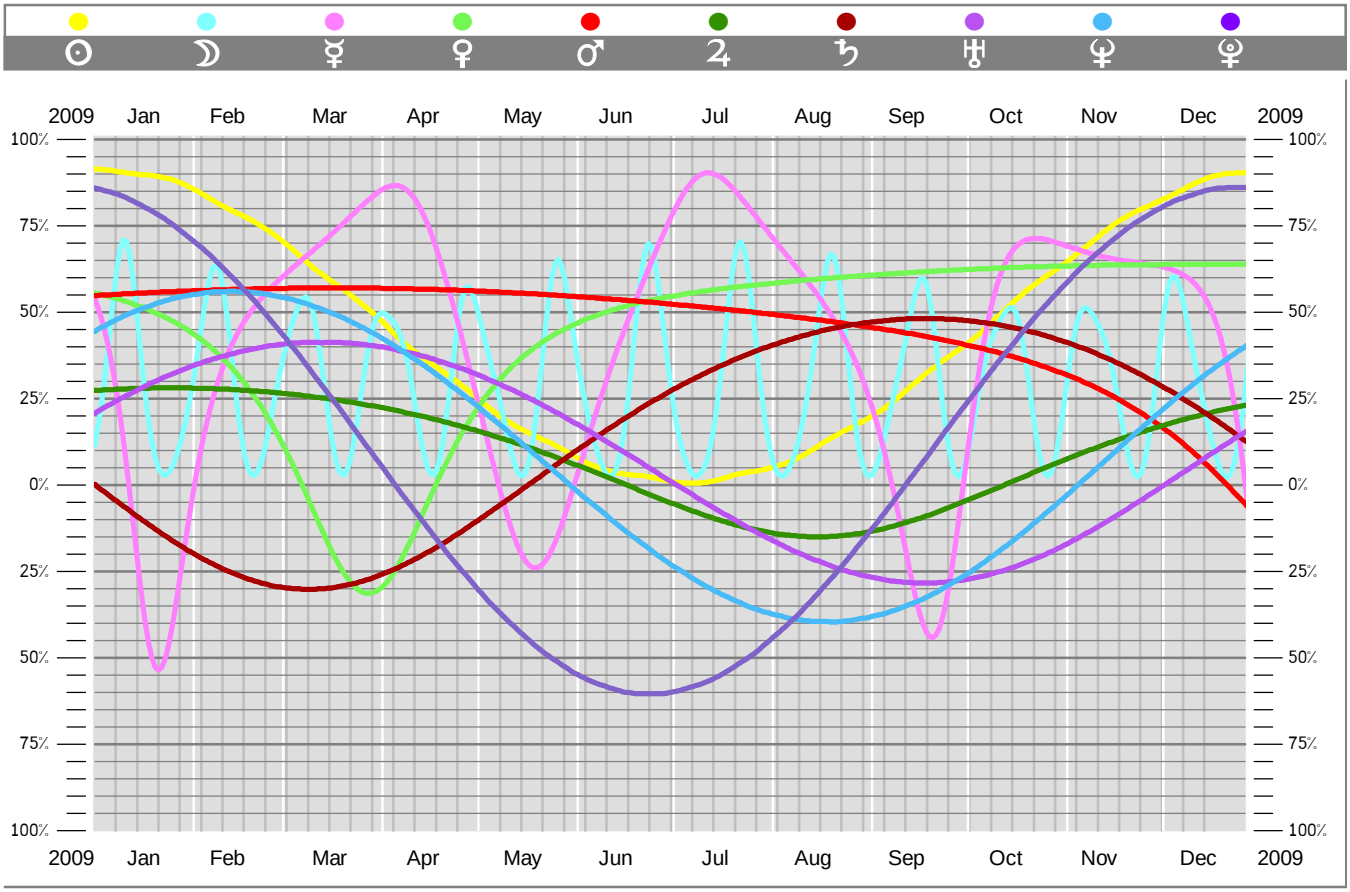
Geocentric Longitudes

360° Graphic Ephemeris



Speed

Greenwich Mean Time - 0:00 (UT)



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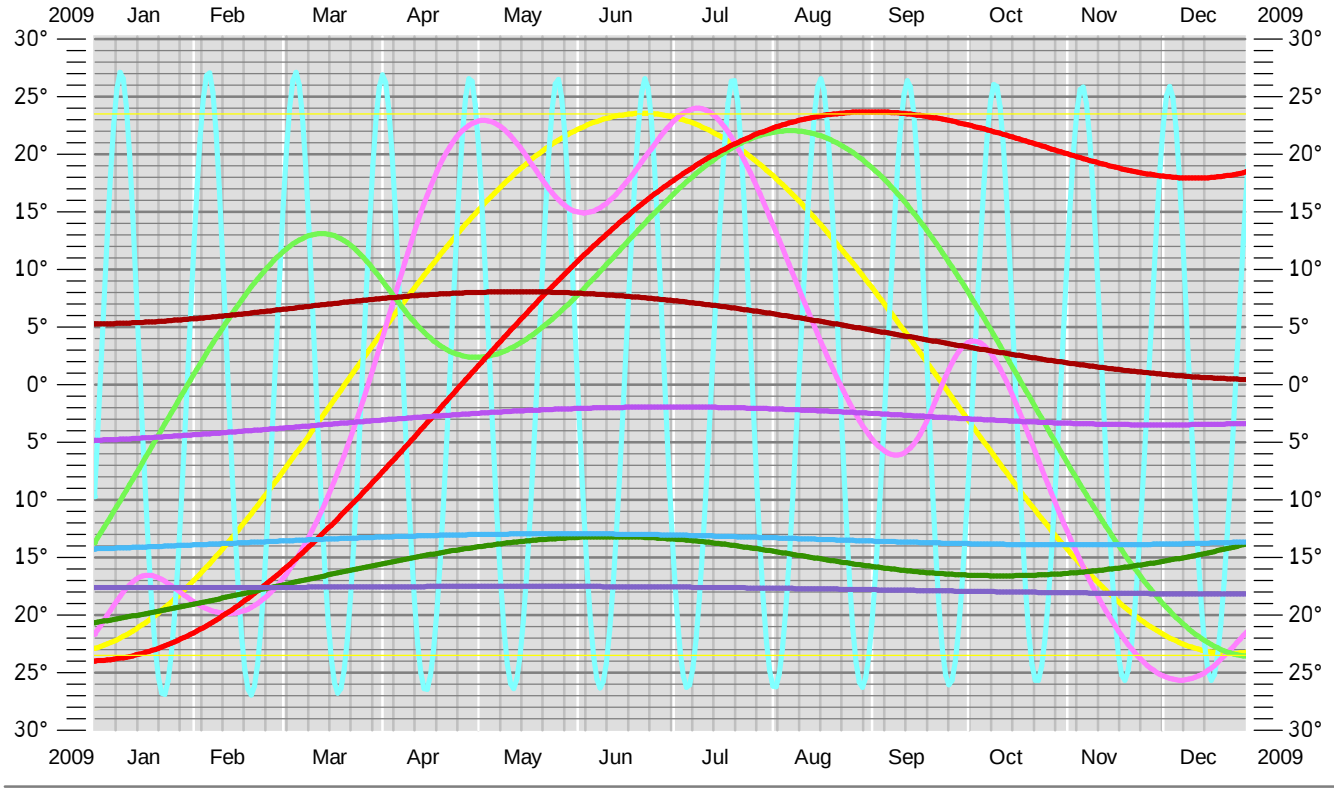
Greenwich Mean Time - 0:00 (UT)



Geocentric Latitudes

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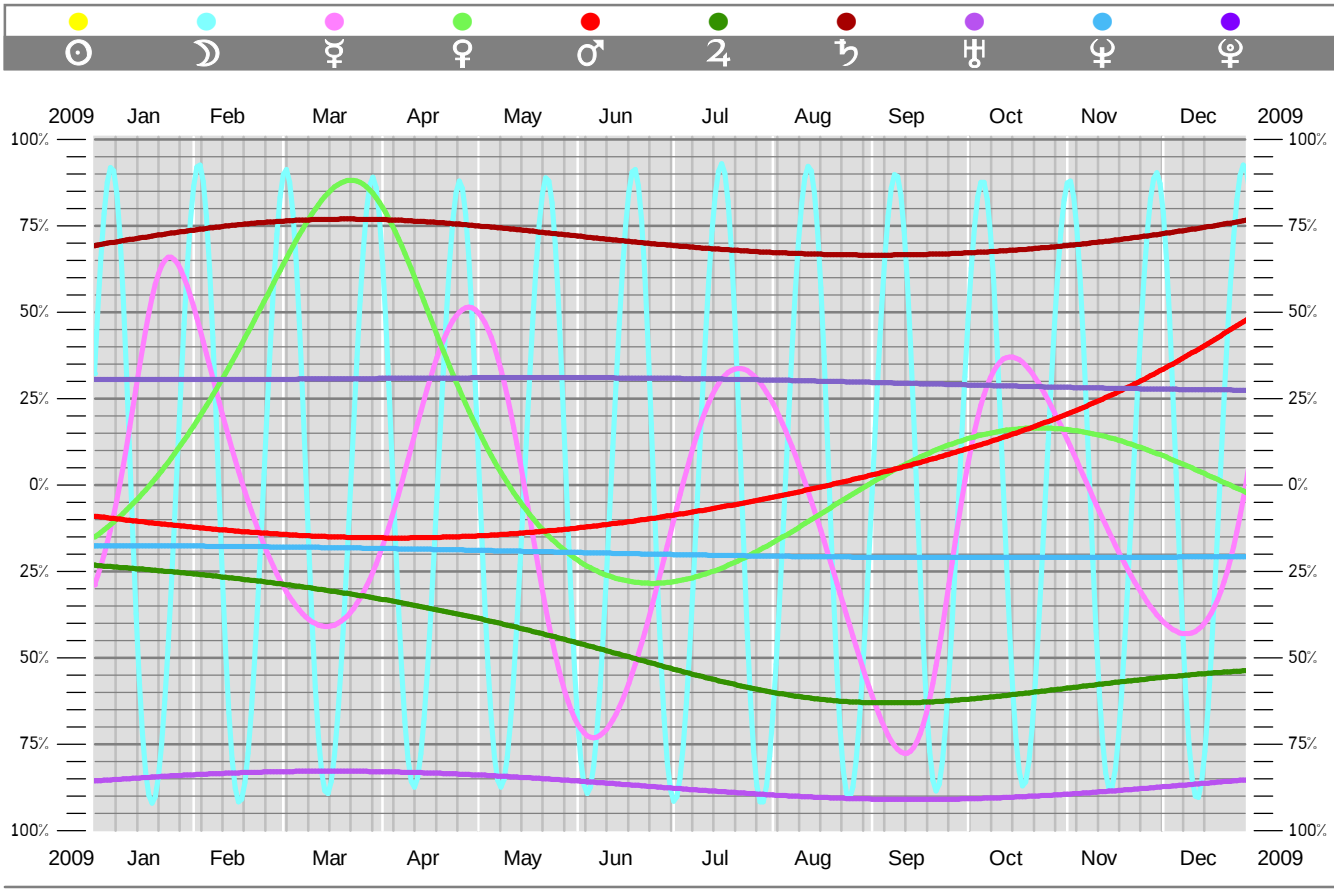

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