

EPHEMERIDES 2000-2100

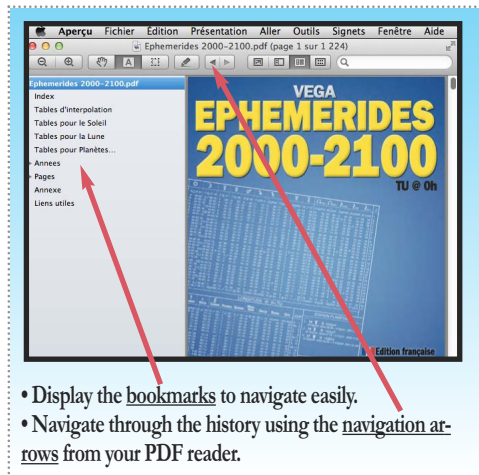
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**Accuracy up to arc second
without calculator !**

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(Click on year or link to view it's page)



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10 Parc Club du Millénaire - 1025 rue Henri Becquerel

34000 Montpellier - France

LONGITUDE FOR 0H

D INGRESS			PL. INGRESS		
day		h m	day		h m
Su	2	21:33	T	4	2:43
W	5	10:27	T	18	22:07
F	7	22:51	Th	20	18:24
M	10	10:01	M	24	19:40
W	12	18:54			

● ☽ PHASES ○ ☾			
day		h m	☽ long.
Th	6	18:15	● 15 ♊ 44
F	14	13:35	☾ 23 ♈ 44
F	21	4:42	○ 00 ♉ 25
F	28	7:59	☾ 07 ♊ 40

DATA FOR 0H
1 JANUARY 2000

Julian day = 2451544.5
DK SVP = 2° 04' 48"
SVP = 5° 15' 50"
Ayanamsa = 23° 51' 10"
Ecliptic Obl. = 23° 26' 16"
Nutation = -14.03"

DECEMBER 2100

DAY	ST	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
W	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		
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LONGITUDE FOR 0H

DAY TAG	♀ CERES	♀ PALLAS	♂ JUNON	♂ VESTA	♂ CHIRON	HAUMEA	QUAADAR	MAKE- MAKE	ORCUS	SEDNA	ERIS	JOUR DIA	PL. STATION		
													day		
W 22 ♄ R 19 ♀ ♄ (D 14 ♀ ♄ 2100.05.26 ~ D 16 ♀ ♄ 2101.05.29)															
F 1	1 ♀ 19	23 R32	1 ♀ 55	55 28	17 03	10 16	3 38	21 ♀ R48	18 31	17 14	26 07	13 ♀ R45	Me 1		
W 3	1 43	23 15	2 39	28 47	10 31	3	3	10 21 47	18 34	17 18	26 06	13 44	V 3		
Su 5	2 05	23 01	3 29	28 47	10 46	3	3	13 21 45	18 36	17 21	26 05	13 42	D 5		
T 7	2 27	22 49	4 08	0 Ω	13 10	41	3	15 21 44	18 39	17 25	26 04	13 41	Ma 7		
Th 9	2 47	22 39	4 54	0 55	11 16	3	3	18 21 43	18 42	17 29	26 03	13 40	J 9		
Sa 11	3 05	22 32	5 39	1 36	11 31	3	3	21 21 42	18 45	17 32	26 02	13 39	S 11		
M 13	3 23	22 27	6 26	2 17	11 46	3	3	23 21 41	18 47	17 36	26 01	13 38	L 13		
W 15	3 39	22 24	7 13	2 57	12 01	3	3	26 21 40	18 50	17 40	26 00	13 37	Me 15		
F 17	3 53	22 D 24	8 00	3 17	12 15	3	3	29 21 39	18 53	17 43	25 59	13 36	V 17		
Su 19	4 06	22 26	8 48	4 15	12 30	3	3	32 21 38	18 56	17 47	25 58	13 35	D 19		
T 21	4 18	22 30	9 36	4 53	12 45	3	3	35 21 37	18 58	17 51	25 57	13 34	Ma 21		
Th 23	4 28	22 37	10 25	5 30	12 59	3	3	38 21 37	19 01	17 54	25 56	13 33	J 23		
Sa 25	4 36	22 45	11 14	6 07	13 13	3	3	41 21 36	19 04	17 58	25 55	13 32	S 25		
M 27	4 43	22 56	12 03	6 42	13 28	3	3	45 21 36	19 06	18 01	25 53	13 31	L 27		
W 29	4 48	23 09	12 53	7 16	13 42	3	3	48 21 35	19 09	18 05	25 52	13 30	Me 29		
F 31	4 ♀ 51	23 24	13 44	7 Ω	15 50	13 46	3 ♀ 51	21 ♀ R35	19 12	18 08	25 05	R51 13 ♀ R49	V 31		
D INGRESS														PL. INGRESS	
day h m														day h m	
Th 2 21:47 ♄ ♄														Sa 11 10:04 ♄ ♄	
Sa 4 23:31 ♄ ♄														Su 12 2:37 ♄ ♄	

DECLINATION FOR 0H

[illegible]

Symbols

Notations :

ST Sidereal Time
UT Universal Time

D Direct
R Retrograde

° Degree (d'arc)
 ' Minute (1/60°)
 " Second (1/60')

h Hour (time)
m Minute
s Second

24h Motion Motion in 24h (distance or arc traveled in 24 hours)

True (calculation method)
 Mean Mean calculation
 Cor..... Corrected (empirical calc.)

SVP Sidereal Vernal Point
 (Aldebaran reference)

Ayanamsa ...Gap between the Tropical Zodiac and the Sidereal Zodiac used in Hindu Astrology (Spica reference)

DK SVP Sidereal Vernal Point after the Tibetan Master Djwal Khul.

Position deduced according to the indications of volume 3 of the Alice Bailey's "A Treatise on the Seven Rays" (Esoteric Astrology p.64 English edition). Giving the vernal point or equinoctial point, at 30° of Pisces in the year -11 BC and 30° Aquarius (sidereal) in the year 2149.

Planets, points, asteroids :

☉ ... Sun
 ☾ ... Moon
 ☿ ... Mercury
 ♀ ... Venus
 ♂ ... Earth
 ♂ ... Mars
 ♃ ... Jupiter
 ♄ ... Saturn
 ♅ ... Uranus
 ♅ ... Uranus
 ♆ ... Neptune
 ♆ ... Neptune
 ♇ ... Pluto
 ♇ ... Pluto
 ♇ ... Pluto
 ♁ ... (North) Lunar node
 ♁ ... South Lunar node
 ☾ ... Dark Moon
 ♄ ... Ceres
 ♀ ... Pallas
 ♃ ... Junon
 ♄ ... Vesta
 ♄ ... Chiron (Kiron)

Zodiac signs :

♈ ... Aries (0°0-29°59')
 ♉ ... Taurus (30°0-59°59')
 ♊ ... Gemini (60°0-89°59')
 ♋ ... Cancer (90°0-119°59')
 ♌ ... Leo (120°0-149°59')
 ♍ ... Virgo (150°0-179°59')
 ♎ ... Libra (180°0-209°59')
 ♏ ... Scorpio (210°0-239°59')
 ♐ ... Sagittarius (240°0-269°59')
 ♑ ... Capricorn (270°0-299°59')
 ♒ ... Aquarius (300°0-329°59')
 ♓ ... Pisces (330°0-359°59')

Lunar phases :

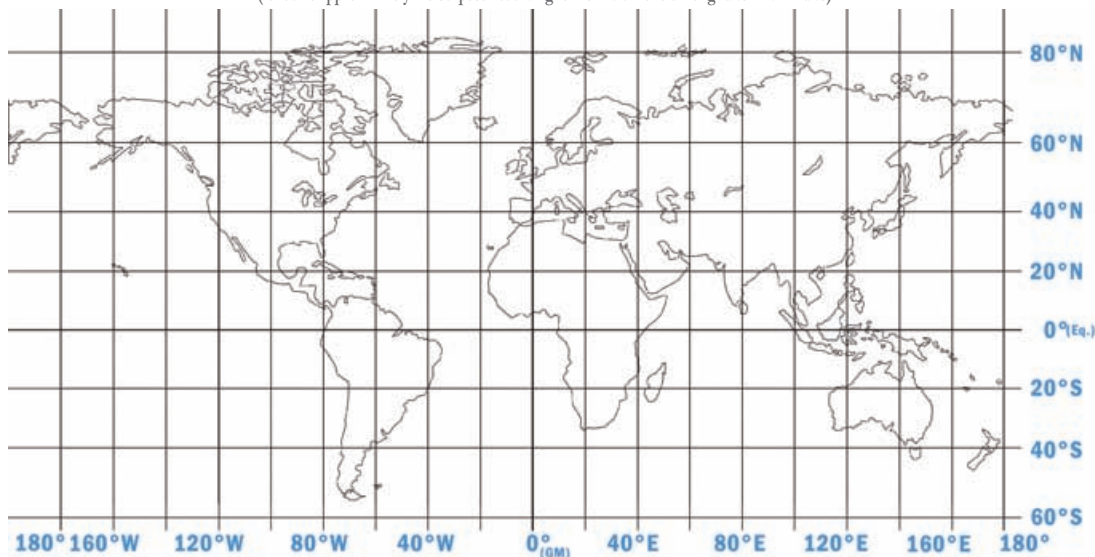
● ... New Moon
 ☾ ... First Quarter
 ○ ... Full Moon
 ☾ ... Last Quarter

Majors aspects :

♌ ... Conjunction (0°)
 ☆ ... Sextile (60°)
 □ ... Square (90°)
 △ ... Trine (120°)
 ♌ ... Opposition (180°)

Planisphere

(to locate approximately the eclipses according to the indications of longitude and latitude)

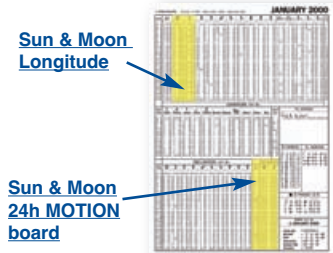


INTERPOLATION TABLES HELP DETERMINE THE PRECISE POSITION OF A PLANET AT ANY TIME THANKS TO A SIMPLE ADDITION

Planetary positions are calculated from 12am for 24 hours (until 12am the next day), therefore it is more convenient to add the distance travelled (from 12am to a given time) to the position at 12am. This simple addition will help us get a better measure (to the arc second for luminaries and to the arc minute for planets and asteroids). This interpolation is based on cross-multiplication.

A/ FOR THE SUN AND THE MOON :

The distance travelled by the Sun and the Moon in 24 hours can be directly read on the **"24h MOTION" board on the ephemerides page.**



1/ Write down the value of the motion at a given day and display the **Interpolation table for the motion of the Sun.**

2/ In the first **"24h MOTION"** column, localize the closest line to this value.

3/ **On this line**, read the number on the column at a given time. For example, if it is 12.35pm, the numbers on the same line can be added (column 12h + column 35').

Examples:

• **Position of the Sun on January 20th in 2000 at 1pm UTC**
Longitude of the Sun at hour 0 (a) = **29°13'11" Capricorn** and at hour 24 (January 21st at midnight) **0°14'14" Aquarius**.

As for January 20th, 2000, the **24h Motion board** (at the bottom right of the ephemeris page) displays (b) **61'03"** for the Sun.

Then we'll display the **Interpolation table for the motion of the Sun** in which we'll select the closest line of the **first column "24h MOTION"** and that is **61'04"**.

On this line we can read the number on the column **13h**, i.e (c) **33'05"**. Then we'll add this number to the position at 12am:

(a) 29°13'11" Capricorn
(c) + 33'05" (distance between 12am to 1pm)
= 29°46'16" Capricorn on January 20th, 2000 at 1pm.

• **Position of the Sun on January 20th in 2000 at 10.55pm UTC**
Same thing, in the **Interpolation tables for the motion of the Sun** we'll localize on the same line **61'04"** the numbers of the columns **22h** and **55'** i.e respectively **55'59"** (on the first page) and **2'20"** (on the second page).
Then we'll add these numbers (55'59"+2'20"=57'79"=58'19") and we'll add them to the position at 12am:

29°13'11" Capricorn
+ 58'19" (distance travelled for 22h + 55')
= 29°71'30" Capricorn = 30°11'30"
= 0°11'30" Aquarius on January 20th, 2000 at 10.55pm.

Make sure the result of the addition is automatically between the position at 12am and the one 24 hours after. If the longitude exceeds the position 24 hours after, that means there was a mistake in the calculation. In the previous example, 0°11'30" Aquarius is accurate, i.e after the position at 12am and before the position 24 hours after.

• **Position of the Moon on January 23rd in 2000 at 10.45am UTC**
Longitude at hour 0: **26°55'43" Leo** (at hour 24: **11°06'41" Virgo**).
The distance travelled in 24 hours given on the **"24h MOTION" board** (at the bottom right) is **14°10'57"**, **14°11'** if we round it up.
In the **Interpolation tables for the motion of the Moon**, we'll select on the same line **14°11'** the numbers of the columns **10h** and **45'** i.e respectively **5°55'** (1st page) and **0°27'** (2nd page).
Now let's add these numbers (5°55'+0°27'=5°82'=6°22') and let's add them to the position at 12am:

26°55'43" Leo
+ 6°22' (distance travelled from 0 hour to 10 h. +45')
= 32°77'43" Leo = 2°77'43" Virgo = 3°17'43" Virgo
= 3°18' Virgo on January 23rd, 2000 at 10.45am.

B/ FOR THE PLANETS

Calculate the distance travelled in 24 hours, then in the **Interpolation table for the motion of planets and asteroids** find the closest number on the line and proceed to the same calculation.

Example:

• **Position of Mercury on January 20th in 2000 at 3pm UTC**
Longitude at 12am = **1°48" Aquarius** and 24 hours later **3°30" Aquarius**, i.e **3°30' - 1°48" = (3x60+30) - (60+48) = 210 - 108 = 102 = 1°42'** in 24h (1°=60'). In the **Interpolation table for the motion of planets...**, on the first column **"24H MOTION"**, find the line **1°42'** and write down the number on the column **15h**, i.e **1°04'**. Add this value to the longitude at 12am:
1°48" Aquarius + 1°04' = 2°52" Aquarius on January 20th, 2000 at 3pm.

As for a retrograding planet, the result of the motion will be negative, therefore we will subtract the distance travelled from the longitude at 12am.

C/ FOR THE ASTEROIDS

Watch out: the positions of asteroids are displayed every 48 hours, that's why you have to divide by two the value of the motion in 48 hours while using the 24 hour interpolation tables. If, when applying a given day, it is not the same as the one in position at 12am, you will have to add the value of the motion in 24 hours..

Example:

• **Position of Ceres on January 18 in 2000 at 6.33pm UTC**
Longitude on January 17 at 12am = **7°13" Libra** and on January 18, 24 hours after (January 19 hour 0) **7°29" Libra**.
The distance travelled in 48 hours is **7°29' - 7°13' = 0°16'** therefore in 24 hours a motion of **0°16' ÷ 2 = 0°08'**.
In the **Interpolation table for the motion of planets...**, 1st column **"24H MOTION"**, find the line **0°08'** and write down the value in the **hour 18** and **19** columns : they are identical (because of the short distance), i.e **0°06'** at 6.33pm.
To determine the longitude on January 18, we need to add the distance travelled in **24 hours + 18h33**, i.e the position at 12am on January 17: **7°13" Libra + 0°08' + 0°06' = 7°27" Libra** on January 18, 2000 at 6.33pm UTC

*NB: Because the motions of planets aren't constant and the numbers are rounded up, interpolations may sometimes be a bit off from a second to a few arc minutes.
Sexagesimal system basis : 1° = 60' = 60x60" = 3600"*

24H MOTION	☉ SUN		☼ SOLEIL			☽ SOLE			☀ SONNE				☼ SOL				8h	7h
	23h	22h	21h	20h	19h	18h	17h	16h	15h	14h	13h	12h	11h	10h	9h			
57 10	54 47	52 24	50 01	47 38	45 15	42 52	40 30	38 07	35 44	33 21	30 58	28 35	26 12	23 49	21 26	19 03	16 40	
57 13	54 50	52 27	50 04	47 41	45 18	42 55	40 32	38 09	35 47	33 23	31 00	28 36	26 13	23 50	21 27	19 04	16 41	
57 16	54 53	52 30	50 06	47 43	45 20	42 57	40 34	38 11	35 49	33 24	31 01	28 38	26 15	23 52	21 28	19 05	16 42	
57 19	54 56	52 32	50 09	47 46	45 23	42 59	40 36	38 13	35 49	33 26	31 03	28 39	26 16	23 53	21 30	19 06	16 43	
57 22	54 59	52 35	50 12	47 48	45 25	43 01	40 38	38 15	35 51	33 28	31 04	28 41	26 18	23 54	21 31	19 07	16 44	
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59 07	56 39	54 11	51 44	49 16	46 48	44 20	41 52	39 25	36 57	34 29	32 01	29 33	27 06	24 38	22 10	19 42	17 15	
59 10	56 42	54 14	51 46	49 18	46 50	44 22	41 55	39 27	36 59	34 31	32 03	29 35	27 07	24 39	22 11	19 43	17 15	
59 13	56 45	54 17	51 49	49 21	46 53	44 25	41 57	39 29	37 01	34 33	32 05	29 36	27 08	24 40	22 12	19 44	17 16	
59 16	56 48	54 20	51 51	49 23	46 55	44 27	41 59	39 31	37 02	34 34	32 06	29 38	27 10	24 42	22 13	19 45	17 17	
59 19	56 51	54 22	51 54	49 26	46 58	44 29	42 01	39 33	37 04	34 36	32 08	29 39	27 11	24 43	22 15	19 46	17 18	
59 22	56 54	54 25	51 57	49 28	47 00	44 31	42 03	39 35	37 06	34 38	32 09	29 41	27 13	24 44	22 16	19 47	17 19	
59 25	56 56	54 28	51 59	49 31	47 02	44 34	42 05	39 37	37 08	34 40	32 11	29 42	27 14	24 45	22 17	19 48	17 20	
59 28	56 59	54 31	52 02	49 33	47 05	44 36	42 07	39 39	37 10	34 41	32 13	29 44	27 15	24 47	22 18	19 49	17 21	
59 31	57 02	54 33	52 05	49 36	47 07	44 38	42 09	39 41	37 12	34 43	32 14	29 45	27 17	24 48	22 19	19 50	17 22	
59 34	57 05	54 36	52 07	49 38	47 09	44 40	42 12	39 43	37 14	34 45	32 16	29 47	27 18	24 49	22 20	19 51	17 22	
59 37	57 08	54 39	52 10	49 41	47 12	44 43	42 14	39 45	37 16	34 47	32 18	29 48	27 19	24 50	22 21	19 52	17 23	
59 40	57 11	54 42	52 12	49 43	47 14	44 45	42 16	39 47	37 17	34 48	32 19	29 50	27 21	24 52	22 22	19 53	17 24	
59 43	57 14	54 45	52 15	49 46	47 17	44 47	42 18	39 49	37 19	34 50	32 21	29 51	27 22	24 53	22 24	19 54	17 25	
59 46	57 17	54 47	52 18	49 48	47 19	44 49	42 20	39 51	37 21	34 52	32 22	29 53	27 24	24 54	22 25	19 55	17 26	
59 49	57 19	54 50	52 20	49 51	47 21	44 52	42 22	39 53	37 23	34 54	32 24	29 54	27 25	24 55	22 26	19 56	17 27	
59 52	57 22	54 53	52 23	49 53	47 24	44 54	42 24	39 55	37 25	34 55	32 26	29 56	27 26	24 57	22 27	19 57	17 28	
59 55	57 25	54 55	52 26	49 56	47 26	44 56	42 26	39 57	37 27	34 57	32 27	29 57	27 28	24 58	22 28	19 58	17 29	
59 58	57 28	54 58	52 28	49 58	47 28	44 58	42 28	39 59	37 29	34 59	32 29	29 59	27 29	24 59	22 29	19 59	17 29	
60 01	57 31	55 01	52 31	50 01	47 31	45 01	42 31	40 01	37 31	35 01	32 31	30 00	27 30	25 00	22 30	20 00	17 30	
60 04	57 34	55 04	52 33	50 03	47 33	45 03	42 33	40 03	37 32	35 02	32 32	30 02	27 32	25 02	22 31	20 01	17 31	
60 07	57 37	55 06	52 36	50 06	47 36	45 05	42 35	40 05	37 34	35 04	32 34	30 03	27 33	25 03	22 33	20 02	17 32	
60 10	57 40	55 09	52 39	50 08	47 38	45 07	42 37	40 07	37 36	35 06	32 35	30 05	27 35	25 04	22 34	20 03	17 33	
60 13	57 42	55 12	52 41	50 11	47 40	45 10	42 39	40 09	37 38	35 08	32 37	30 06	27 36	25 05	22 35	20 04	17 34	
60 16	57 45	55 15	52 44	50 13	47 43	45 12	42 41	40 11	37 40	35 09	32 39	30 08	27 37	25 07	22 36	20 05	17 35	
60 19	57 48	55 17	52 47	50 16	47 45	45 14	42 43	40 13	37 42	35 11	32 40	30 09	27 39	25 08	22 37	20 06	17 36	
60 22	57 51	55 20	52 49	50 18	47 47	45 16	42 46	40 15	37 44	35 13	32 42							

◉ PARTIAL ECLIPSE 16 01 5 FEB. 12h48 70 S 134 E Magnitude 0.575
 (Non-central) Start 10h55.59 S 99 W - End 14h42.38 S 66 E

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Longitudes in Tropical zodiac, at 0 hour for easy calculations

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and Ceres,
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24h MOTION

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declination
given every day

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Lunar Phases
with time and
Moon longitude

● PHASES ○ ☾

day	h	m		D	long.
Sa 5	13:05	●	16	☼	04
Sa 12	23:22	◐	23	☾	33
Sa 19	16:28	○	00	☿	19
Su 27	3:57	◑	07	♊	52

DATA FOR 0H UT

Planetary day	= 2451575.5
SVP	= 2° 04' 43"
P	= 5° 15' 45"
Planetary day	= 23° 51' 15"
Planetary Obl.	= 23° 26' 16"
Station	= -13 25"

Astronomical Data with sidereal landmarks