VEGA

EPHEMERIDES 1900-2000

UT @ 0h

LONGITUDE FOR 0H UT

DECLINATION FOR 0H UT

24h MOTION

PL. STATION

PL. INGRESS

D INGRESS

D PHASES

International edition

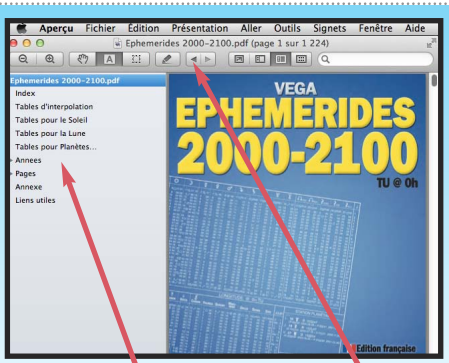
Interactive PDF electronic document

2 Lunar nodes
3 Dark Moons
11 asteroids
Planetary stations

Accuracy up to arc second without calculator !

Daniel VEGA
EPHEMERIDES 1900-2000 UT @ 0h International Ed.

Index



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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

JANUARY 1900

DAY	ST	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊ TRUE	☊ MEAN	⚸ TRUE	⚸ COR.	⚸ MEAN	DAY
	h m s	° ′ ″	° ′ ″	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′ R	° ′	° ′	° ′	
M 1	6 40 44	10♑09 12	2♑25 00	19♐D00	6♒22	13♑52	1♐08	27♐43	10♐08	25♊R13	15♊R15	20♐R16	19♐09	16♌R50	28♌R28	4♍23	1
T 2	6 44 40	11 10 23	16 53 10	20 17	7 37	14 38	1 20	27 50	10 12	25 11	15 14	20 15	19 06	14 51	27 41	4 30	2
W 3	6 48 37	12 11 35	1♒34 40	21 36	8 52	15 25	1 31	27 57	10 15	25 10	15 13	20 12	19 03	13 17	26 48	4 37	3
Th 4	6 52 33	13 12 46	16 22 10	22 56	10 06	16 11	1 43	28 04	10 18	25 08	15 12	20 09	19 00	11 44	25 51	4 43	4
F 5	6 56 30	14 13 57	1♓07 59	24 17	11 21	16 57	1 55	28 11	10 21	25 07	15 11	20 06	18 57	9 58	24 52	4 50	5
Sa 6	7 00 26	15 15 07	15 45 11	25 40	12 35	17 44	2 06	28 18	10 25	25 05	15 10	20 03	18 54	8 02	23 55	4 57	6
Su 7	7 04 23	16 16 17	0♈08 43	27 03	13 50	18 30	2 17	28 25	10 28	25 03	15 09	20 01	18 50	6 23	23 01	5 03	7
M 8	7 08 19	17 17 27	14 51 28	28 27	15 04	19 16	2 29	28 31	10 31	25 02	15 08	20 D 00	18 47	5 D 41	22 14	5 10	8
T 9	7 12 16	18 18 36	28 02 53	29 52	16 19	20 03	2 40	28 38	10 34	25 00	15 07	20 00	18 44	6 33	21 34	5 17	9
W 10	7 16 13	19 19 44	11♉32 57	1♍18	17 33	20 50	2 51	28 45	10 37	24 59	15 06	20 01	18 41	9 14	21 06	5 24	10
Th 11	7 20 09	20 20 52	24 46 21	2 45	18 47	21 36	3 02	28 52	10 40	24 57	15 05	20 03	18 38	13 33	20 48	5 30	11
F 12	7 24 06	21 22 00	7♊44 50	4 12	20 02	22 23	3 13	28 59	10 43	24 56	15 04	20 04	18 34	18 56	20 D 44	5 37	12
Sa 13	7 28 02	22 23 06	20 30 13	5 40	21 16	23 09	3 24	29 05	10 46	24 54	15 03	20 R 05	18 31	24 35	20 53	5 44	13
Su 14	7 31 59	23 24 13	3♋04 07	7 08	22 30	23 56	3 34	29 12	10 49	24 53	15 03	20 04	18 28	29 45	21 15	5 50	14
M 15	7 35 55	24 25 18	15 27 52	8 37	23 44	24 43	3 45	29 19	10 52	24 51	15 02	20 01	18 25	3♍57	21 49	5 57	15
T 16	7 39 52	25 26 24	27 42 35	10 07	24 59	25 29	3 56	29 25	10 55	24 50	15 01	19 57	18 22	7 02	22 35	6 04	16
W 17	7 43 48	26 27 28	9♌49 23	11 37	26 13	26 16	4 06	29 32	10 58	24 49	15 00	19 50	18 19	9 05	23 30	6 10	17
Th 18	7 47 45	27 28 32	21 49 27	13 08	27 27	27 03	4 16	29 38	11 01	24 47	14 59	19 43	18 15	10 25	24 34	6 17	18
F 19	7 51 42	28 29 36	3♍44 23	14 40	28 41	27 50	4 27	29 45	11 04	24 46	14 58	19 36	18 12	11 21	25 42	6 24	19
Sa 20	7 55 38	29 30 39	15 36 17	16 12	29 55	28 36	4 37	29 51	11 06	24 45	14 58	19 28	18 09	12 10	26 54	6 30	20
Su 21	7 59 35	0♒31 41	27 27 53	17 45	1♐09	29 23	4 47	29 58	11 09	24 43	14 57	19 22	18 06	12 57	28 06	6 37	21
M 22	8 03 31	1 32 43	9♎22 37	19 18	2 23	0♒10	4 57	0♑04	11 12	24 42	14 56	19 18	18 03	13 38	29 15	6 44	22
T 23	8 07 28	2 33 45	21 24 31	20 52	3 37	0 57	5 07	0 11	11 14	24 41	14 55	19 15	17 59	13 R 58	0♍21	6 50	23
W 24	8 11 24	3 34 46	3♏38 09	22 26	4 51	1 44	5 17	0 17	11 17	24 39	14 55	19 D 14	17 56	13 39	1 19	6 57	24
Th 25	8 15 21	4 35 46	16 08 21	24 01	6 04	2 31	5 26	0 23	11 20	24 38	14 54	19 15	17 53	12 26	2 09	7 04	25
F 26	8 19 17	5 36 46	28 59 49	25 37	7 18	3 18	5 36	0 29	11 22	24 37	14 53	19 16	17 50	10 19	2 49	7 10	26
Sa 27	8 23 14	6 37 46	12♐16 37	27 13	8 32	4 05	5 46	0 36	11 25	24 36	14 53	19 R 18	17 47	7 33	3 19	7 17	27
Su 28	8 27 11	7 38 45	26 01 24	28 50	9 46	4 52	5 55	0 42	11 27	24 35	14 52	19 17	17 44	4 30	3 37	7 24	28
M 29	8 31 07	8 39 43	10♑14 38	0♒28	10 59	5 39	6 04	0 48	11 29	24 34	14 51	19 15	17 40	1 37	3 45	7 31	29
T 30	8 35 04	9 40 40	24 53 49	2 06	12 13	6 26	6 13	0 54	11 32	24 32	14 51	19 11	17 37	29♌09	3 R 43	7 37	30
W 31	8 39 00	10♒41 36	9♒53 06	3♒45	13♑26	7♒13	6♐22	1♑00	11♐34	24♊R31	14♊R50	19♐R05	17♐34	27♌R05	3♍R32	7♍44	31

LONGITUDE FOR 0H

DAY TAG	⚳ CERES	⚴ PALLAS	⚵ JUNON	⚶ VESTA	⚷ CHIRON	HAUMEA	QUAOAR	MAKE-MAKE	ORCUS	SEDNA	ERIS	JOUR DIA
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
M 1	5♑01	20♐37	22♑21	17♈20	18♐54	28♊R32	7♌R33	17♉R41	15♓25	7♈31	21♓35	L 1
W 3	1 50	21 26	23 09	17 44	19 07	28 29	7 31	17 40	15 28	7 31	21 35	Me 3
F 5	2 38	22 16	23 57	18 10	19 20	28 26	7 29	17 39	15 30	7 32	21 36	V 5
Su 7	3 27	23 05	24 46	18 36	19 33	28 24	7 26	17 37	15 33	7 32	21 37	D 7
T 9	4 15	23 54	25 35	19 04	19 46	28 21	7 24	17 36	15 36	7 32	21 38	Ma 9
Th 11	5 03	24 42	26 24	19 33	19 59	28 19	7 22	17 35	15 39	7 32	21 38	J 11
Sa 13	5 52	25 31	27 13	20 03	20 12	28 16	7 20	17 34	15 42	7 33	21 39	S 13
M 15	6 40	26 19	28 02	20 33	20 24	28 14	7 18	17 33	15 46	7 33	21 40	L 15
W 17	7 27	27 07	28 51	21 05	20 37	28 12	7 15	17 33	15 49	7 33	21 41	Me 17
F 19	8 15	27 55	29 41	21 37	20 49	28 09	7 13	17 32	15 53	7 34	21 42	V 19
Su 21	9 03	28 42	0♒30	22 11	21 01	28 07	7 11	17 31	15 56	7 34	21 43	D 21
T 23	9 50	29 30	1 20	22 45	21 13	28 05	7 08	17 31	16 00	7 34	21 44	Ma 23
Th 25	10 37	0♑17	2 10	23 20	21 24	28 03	7 06	17 31	16 04	7 35	21 45	J 25
Sa 27	11 24	1 03	3 00	23 56	21 35	28 01	7 03	17 31	16 08	7 35	21 47	S 27
M 29	12 11	1 49	3 50	24 32	21 46	27 59	7 01	17 30	16 12	7 36	21 48	L 29
W 31	12♑58	2♑35	4♒40	25♈09	21♐57	27♊R57	6♌R59	17♉D30	16♓16	7♈37	21♓49	Me 31

DECLINATION FOR 0H

DAY TAG	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	JOUR DIA
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
M 1	23 S 04	22 S 19	21 S 52	20 S 19	23 S 39	19 S 36	22 S 25	21 S 55	22 N 04	12 N 56	L 1
T 2	22 59	20 03	22 07	20 00	23 34	19 38	22 26	21 56	22 04	12 56	Ma 2
W 3	22 54	16 26	22 20	19 41	23 29	19 41	22 26	21 56	22 04	12 56	Me 3
Th 4	22 48	11 47	22 33	19 21	23 24	19 43	22 26	21 57	22 04	12 56	J 4
F 5	22 41	6 27	22 46	19 01	23 19	19 45	22 26	21 57	22 04	12 56	V 5
Sa 6	22 35	0 49	22 57	18 40	23 13	19 48	22 26	21 58	22 04	12 56	S 6
Su 7	22 28	4 N 47	23 07	18 19	23 07	19 50	22 26	21 58	22 04	12 56	D 7
M 8	22 20	10 01	23 17	17 57	23 01	19 52	22 26	21 58	22 04	12 56	L 8
T 9	22 12	14 38	23 25	17 35	22 55	19 54	22 27	21 59	22 04	12 56	Ma 9
W 10	22 03	18 24	23 32	17 12	22 48	19 56	22 27	21 59	22 04	12 56	Me 10
Th 11	21 55	21 08	23 38	16 48	22 41	19 58	22 27	22 00	22 04	12 56	J 11
F 12	21 45	22 43	23 43	16 25	22 34	20 00	22 27	22 00	22 04	12 56	V 12
Sa 13	21 35	23 04	23 47	16 00	22 26	20 02	22 27	22 01	22 04	12 56	S 13
Su 14	21 25	22 15	23 50	15 36	22 18	20 04	22 27	22 01	22 04	12 56	D 14
M 15	21 15	20 20	23 51	15 11	22 10	20 06	22 27	22 01	22 04	12 56	L 15
T 16	21 04	17 31	23 52	14 45	22 02	20 08	22 27	22 02	22 04	12 56	Ma 16
W 17	20 52	13 59	23 51	14 19	21 54	20 10	22 27	22 02	22 03	12 57	Me 17
Th 18	20 41	9 55	23 48	13 53	21 45	20 12	22 27	22 03	22 03	12 57	J 18
F 19	20 28	5 31	23 45	13 27	21 36	20 14	22 27	22 03	22 03	12 57	V 19
Sa 20	20 16	0 56	23 40	13 00	21 27	20 16	22 27	22 04	22 03	12 57	S 20
Su 21	20 03	3 S 40	23 33	12 32	21 17	20 18	22 27	22 04	22 03	12 57	D 21
M 22	19 50	8 10	23 26	12 05	21 08	20 19	22 27	22 04	22 03	12 57	L 22
T 23	19 36	12 24	23 16	11 37	20 58	20 21	22 27	22 05	22 03	12 57	Ma 23
W 24	19 22	16 12	23 06	11 09	20 47	20 23	22 27	22 05	22 03	12 57	Me 24
Th 25	19 07	19 23	22 54	10 40	20 37	20 24	22 27	22 05	22 03	12 58	J 25
F 26	18 53	21 42	22 41	10 11	20 26	20 26	22 27	22 06	22 03	12 58	V 26
Sa 27	18 38	22 54	22 26	9 42	20 16	20 28	22 27	22 06	22 03	12 58	S 27
Su 28	18 22	22 47	22 10	9 13	20 04	20 29	22 27	22 06	22 03	12 58	D 28
M 29	18 06	21 13	21 53	8 43	19 53	20 31	22 27	22 07	22 03	12 58	L 29
T 30	17 50	18 13	21 34	8 14	19 42	20 32	22 27	22 07	22 03	12 58	Ma 30
W 31	17 S 34	13 S 58	21 S 13	7 S 44	19 S 30	20 S 34	22 S 27	22 S 07	22 N 03	12 N 58	Me 31

24h MOTION

JOUR DIA	☉	☽
	′ ″	° ′ ″
L 1	61 11	14 28 10
Ma 2	61 11	14 41 30
Me 3	61 11	14 47 30
J 4	61 11	14 45 48
V 5	61 10	14 37 12
S 6	61 10	14 23 21
D 7	61 10	14 06 18
L 8	61 09	13 48 02
Ma 9	61 08	13 30 04
Me 10	61 08	13 13 24
J 11	61 07	12 58 30
V 12	61 07	12 45 23
S 13	61 06	12 33 54
D 14	61 06	12 23 45
L 15	61 05	12 14 44
Ma 16	61 05	12 06 47
Me 17	61 04	12 00 04
J 18	61 04	11 54 56
V 19	61 03	11 51 54
S 20	61 02	11 51 36
D 21	61 02	11 54 44
L 22	61 02	12 01 54
Ma 23	61 01	12 13 38
Me 24	61 01	12 30 12
J 25	61 00	12 51 28
V 26	60 59	13 16 48
S 27	60 59	13 44 47
D 28	60 58	14 13 14
L 29	60 57	14 39 11
Ma 30	60 56	14 59 17
Me 31	60 55	15 10 35

PL. STATION

day
M 1 ☿ D 19♐00
(5♐48 1899.12.16 ~ R 9♈09 1900.03.16)

☽ INGRESS

day	h m	
T 2	21:25	♒
Th 4	22:09	♓
T 9	3:25	♉
Th 11	9:35	♊
Sa 13	18:09	♋
T 16	4:33	♌
Th 18	16:26	♍
Su 21	5:08	♎
T 23	16:54	♏
F 26	1:47	♐
Su 28	6:46	♑
T 30	8:13	♒

PL. INGRESS

day	h m		
T 9	2:06	☿	♑
Sa 20	1:34	♀	♓
Sa 20	11:37	☉	♒
Su 21	6:51	♄	♑
Su 21	18:37	♂	♒
Su 28	17:04	☿	♒

● ☽ PHASES ○ ☾

day	h m		☽ long.
M 1	13:50	●	10♑45
M 8	5:40	◐	17♈30
M 15	19:06	○	25♋13
T 23	23:54	◑	03♏35
W 31	1:22	●	10♒45

DATA FOR 0H

1 JANUARY 1900

Julian day	= 2415020.5
DK SVP	= 3° ♓ 28′ 01″
SVP	= 6° ♓ 39′ 04″
Ayanamsa	= 22° 27′ 56″
Ecliptic Obl.	= 23° 27′ 06″
Nutation	= 17.46″

☉ PARTIAL ECLIPSE 04 ♑13 25 DEC. 17h34 66 N 74 W Magnitude 0.729
(Non-central) Start 15h26, 45 N 116 W - End 19h42, 39 N 46 W

DECEMBER 2000

DAY	ST	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊TRUE	☊MEAN	⚸TRUE	⚸COR.	⚸MEAN	DAY
	h m s	° ′ ″	° ′ ″	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′ R	° ′	° ′	° ′	
F 1	4 40 38	9♐05 50	4♒40 58	25♏37	21♑20	16♎27	5♊R45	26♉R34	17♒25	4♒23	12♐36	15♋57	17♋20	4♒D28	22♑37	0♒37	1
Sa 2	4 44 34	10 06 41	16 27 50	27 09	22 31	17 04	5 37	26 29	17 27	4 24	12 38	15 58	17 17	4 R 29	23 39	0 43	2
Su 3	4 48 31	11 07 32	28 18 48	28 41	23 42	17 40	5 29	26 25	17 29	4 26	12 40	16 00	17 13	4 25	24 36	0 50	3
M 4	4 52 27	12 08 24	10♓18 56	0♐14	24 53	18 16	5 21	26 20	17 31	4 27	12 43	16 R 01	17 10	3 57	25 26	0 57	4
T 5	4 56 24	13 09 17	22 33 22	1 46	26 03	18 52	5 13	26 15	17 33	4 29	12 45	16 00	17 07	2 49	26 07	1 03	5
W 6	5 00 21	14 10 10	5♈06 56	3 19	27 14	19 29	5 05	26 11	17 35	4 31	12 47	15 59	17 04	0 50	26 38	1 10	6
Th 7	5 04 17	15 11 05	18 03 39	4 52	28 24	20 05	4 57	26 06	17 37	4 32	12 50	15 55	17 01	28♑06	26 57	1 17	7
F 8	5 08 14	16 12 00	1♉26 11	6 25	29 34	20 41	4 49	26 02	17 39	4 34	12 52	15 51	16 58	24 53	27 04	1 24	8
Sa 9	5 12 10	17 12 56	15 15 14	7 58	0♒44	21 17	4 41	25 58	17 41	4 36	12 54	15 47	16 54	21 38	26 R 59	1 30	9
Su 10	5 16 07	18 13 53	29 29 06	9 31	1 54	21 53	4 33	25 53	17 43	4 37	12 57	15 42	16 51	18 42	26 43	1 37	10
M 11	5 20 03	19 14 50	14♊03 32	11 04	3 04	22 29	4 26	25 49	17 45	4 39	12 59	15 39	16 48	16 19	26 16	1 44	11
T 12	5 24 00	20 15 49	28 52 04	12 38	4 14	23 05	4 18	25 45	17 47	4 41	13 01	15 37	16 45	14 22	25 39	1 50	12
W 13	5 27 56	21 16 48	13♋46 53	14 11	5 24	23 41	4 11	25 40	17 49	4 42	13 04	15 D 36	16 42	12 36	24 56	1 57	13
Th 14	5 31 53	22 17 49	28 39 58	15 45	6 33	24 17	4 03	25 36	17 52	4 44	13 06	15 36	16 38	10 42	24 09	2 04	14
F 15	5 35 50	23 18 50	13♌24 11	17 18	7 43	24 53	3 56	25 32	17 54	4 46	13 08	15 37	16 35	8 35	23 18	2 10	15
Sa 16	5 39 46	24 19 52	27 54 09	18 52	8 52	25 29	3 49	25 28	17 56	4 48	13 10	15 39	16 32	6 28	22 29	2 17	16
Su 17	5 43 43	25 20 55	12♍06 27	20 26	10 01	26 04	3 42	25 24	17 59	4 50	13 13	15 40	16 29	4 48	21 42	2 24	17
M 18	5 47 39	26 21 59	25 59 34	22 00	11 10	26 40	3 35	25 21	18 01	4 52	13 15	15 R 40	16 26	4 D 11	21 00	2 30	18
T 19	5 51 36	27 23 03	9♎33 29	23 34	12 19	27 16	3 28	25 17	18 04	4 53	13 17	15 40	16 23	5 00	20 26	2 37	19
W 20	5 55 32	28 24 09	22 49 11	25 08	13 28	27 51	3 21	25 13	18 06	4 55	13 20	15 39	16 19	7 24	20 00	2 44	20
Th 21	5 59 29	29 25 16	5♏48 12	26 42	14 36	28 27	3 14	25 10	18 09	4 57	13 22	15 37	16 16	11 10	19 46	2 50	21
F 22	6 03 25	0♑26 23	18 32 15	28 17	15 44	29 03	3 08	25 06	18 11	4 59	13 24	15 34	16 13	15 47	19 D 43	2 57	22
Sa 23	6 07 22	1 27 31	1♐03 05	29 52	16 53	29 38	3 02	25 03	18 14	5 01	13 26	15 32	16 10	20 42	19 52	3 04	23
Su 24	6 11 19	2 28 39	13 22 18	1♑27	18 01	0♍14	2 55	24 59	18 17	5 03	13 29	15 30	16 07	25 24	20 13	3 10	24
M 25	6 15 15	3 29 49	25 31 29	3 02	19 08	0 49	2 49	24 56	18 19	5 05	13 31	15 29	16 04	29 30	20 45	3 17	25
T 26	6 19 12	4 30 58	7♑32 12	4 38	20 16	1 25	2 43	24 53	18 22	5 07	13 33	15 28	16 00	2♒52	21 28	3 24	26
W 27	6 23 08	5 32 08	19 26 12	6 13	21 24	2 00	2 38	24 50	18 25	5 09	13 35	15 D 28	15 57	5 31	22 19	3 31	27
Th 28	6 27 05	6 33 18	1♒15 31	7 49	22 31	2 35	2 32	24 47	18 28	5 11	13 37	15 28	15 54	7 38	23 17	3 37	28
F 29	6 31 01	7 34 28	13 02 33	9 26	23 38	3 11	2 27	24 44	18 30	5 13	13 40	15 29	15 51	9 24	24 20	3 44	29
Sa 30	6 34 58	8 35 38	24 50 15	11 02	24 45	3 46	2 21	24 41	18 33	5 15	13 42	15 30	15 48	11 01	25 26	3 51	30
Su 31	6 38 54	9♑36 48	6♓42 02	12♑39	25♒52	4♍21	2♊R16	24♉R38	18♒36	5♒18	13♐44	15♋30	15♋44	12♒29	26♑32	3♒57	31

LONGITUDE FOR 0H

DAY TAG	⚳ CERES	⚴ PALLAS	⚵ JUNON	⚶ VESTA	⚷ CHIRON	HAUMEA	QUAOAR	MAKE-MAKE	ORCUS	SEDNA	ERIS	JOUR DIA
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
F 1	3♐30	9♍52	23♒47	12♒44	18♐57	8♎18	8♐20	17♍26	22♋R53	16♉R08	18♈R56	V 1
Su 3	4 21	10 43	24 29	13 34	19 11	8 19	8 23	17 27	22 52	16 07	18 56	D 3
T 5	5 11	11 34	25 12	14 25	19 25	8 21	8 26	17 27	22 52	16 06	18 55	Ma 5
Th 7	6 02	12 25	25 56	15 16	19 39	8 22	8 29	17 28	22 51	16 05	18 54	J 7
Sa 9	6 53	13 15	26 41	16 08	19 53	8 23	8 32	17 28	22 50	16 04	18 54	S 9
M 11	7 44	14 05	27 26	16 59	20 07	8 25	8 35	17 28	22 49	16 03	18 53	L 11
W 13	8 34	14 55	28 13	17 52	20 21	8 26	8 38	17 29	22 49	16 02	18 53	Me 13
F 15	9 25	15 45	29 00	18 44	20 35	8 27	8 42	17 29	22 48	16 01	18 52	V 15
Su 17	10 15	16 35	29 47	19 37	20 49	8 28	8 45	17 29	22 47	16 00	18 52	D 17
T 19	11 05	17 24	0♈36	20 30	21 03	8 29	8 48	17♍R29	22 45	15 59	18 51	Ma 19
Th 21	11 55	18 13	1 25	21 23	21 17	8 29	8 51	17 28	22 44	15 58	18 51	J 21
Sa 23	12 45	19 02	2 15	22 17	21 31	8 30	8 53	17 28	22 43	15 57	18 50	S 23
M 25	13 35	19 50	3 06	23 11	21 44	8 31	8 56	17 28	22 41	15 57	18 50	L 25
W 27	14 25	20 38	3 57	24 05	21 58	8 31	8 59	17 27	22 40	15 56	18 50	Me 27
F 29	15 14	21 26	4 49	24 59	22 12	8 32	9 02	17 27	22 39	15 55	18 50	V 29
Su 31	16♐03	22♍13	5♈41	25♒54	22♐25	8♎32	9♐05	17♍R26	22♋R37	15♉R54	18♈R50	D 31

PL. STATION

day

☽ INGRESS

day		h m	
Su	3	3:26	♓
T	5	14:18	♈
Th	7	21:31	♉
Su	10	0:55	♊
T	12	1:51	♋
Th	14	2:12	♌
Sa	16	3:35	♍
M	18	7:02	♎
W	20	13:10	♏
F	22	22:01	♐
M	25	8:58	♑
W	27	21:26	♒
Sa	30	10:31	♓

PL. INGRESS

day		h m	
Su	3	20:12	☿ ♐
F	8	8:38	♀ ♒
Th	21	13:39	☉ ♑
Sa	23	1:49	☿ ♑
Sa	23	14:22	♂ ♏

DECLINATION FOR 0H

DAY TAG	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	JOUR DIA
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	
F 1	21 S 49	20 S 43	18 S 12	24 S 05	5 S 16	20 N 22	17 N 09	16 S 16	18 S 59	12 S 04	V 1
Sa 2	21 58	18 26	18 41	23 53	5 30	20 21	17 08	16 16	18 59	12 04	S 2
Su 3	22 07	15 22	19 08	23 41	5 44	20 20	17 07	16 15	18 59	12 04	D 3
M 4	22 15	11 38	19 35	23 29	5 57	20 18	17 06	16 15	18 58	12 05	L 4
T 5	22 23	7 21	20 01	23 15	6 11	20 17	17 05	16 14	18 58	12 05	Ma 5
W 6	22 30	2 41	20 26	23 01	6 25	20 16	17 04	16 13	18 58	12 06	Me 6
Th 7	22 37	2 N 15	20 50	22 47	6 39	20 15	17 04	16 13	18 57	12 06	J 7
F 8	22 43	7 15	21 14	22 32	6 52	20 13	17 03	16 12	18 57	12 06	V 8
Sa 9	22 49	12 03	21 36	22 16	7 06	20 12	17 02	16 11	18 57	12 07	S 9
Su 10	22 55	16 21	21 57	22 00	7 19	20 11	17 01	16 11	18 56	12 07	D 10
M 11	23 00	19 46	22 18	21 43	7 33	20 10	17 00	16 10	18 56	12 07	L 11
T 12	23 05	21 55	22 37	21 25	7 46	20 08	16 59	16 09	18 55	12 08	Ma 12
W 13	23 09	22 34	22 55	21 07	7 59	20 07	16 58	16 09	18 55	12 08	Me 13
Th 14	23 13	21 36	23 12	20 49	8 13	20 06	16 58	16 08	18 55	12 08	J 14
F 15	23 16	19 09	23 28	20 29	8 26	20 05	16 57	16 07	18 54	12 08	V 15
Sa 16	23 19	15 32	23 43	42 20	10	8 39	20 04	16 56	16 06	18 54	12 09
Su 17	23 21	11 05	23 56	19 50	8 52	20 03	16 55	16 06	18 53	12 09	D 17
M 18	23 23	6 09	24 08	19 29	9 05	20 01	16 55	16 05	18 53	12 09	L 18
T 19	23 25	1 02	24 19	19 08	9 18	20 00	16 54	16 04	18 52	12 10	Ma 19
W 20	23 26	4 S 01	24 29	18 46	9 31	19 59	16 53	16 03	18 52	12 10	Me 20
Th 21	23 26	8 47	24 37	18 24	9 43	19 58	16 53	16 03	18 52	12 10	J 21
F 22	23 26	13 05	24 44	18 02	9 56	19 57	16 52	16 02	18 51	12 10	V 22
Sa 23	23 26	16 45	24 50	17 39	10 09	19 56	16 51	16 01	18 51	12 11	S 23
Su 24	23 25	19 37	24 54	17 16	10 21	19 55	16 51	16 00	18 50	12 11	D 24
M 25	23 24	21 34	24 57	16 52	10 34	19 54	16 50	15 59	18 50	12 11	L 25
T 26	23 22	22 30	24 59	16 28	10 46	19 53	16 50	15 58	18 49	12 11	Ma 26
W 27	23 19	22 24	24 59	16 04	10 59	19 52	16 49	15 58	18 49	12 11	Me 27
Th 28	23 17	21 17	24 58	15 39	11 11	19 52	16 49	15 57	18 48	12 12	J 28
F 29	23 13	19 15	24 55	15 14	11 23	19 51	16 48	15 56	18 48	12 12	V 29
Sa 30	23 10	16 25	24 51	14 49	11 35	19 50	16 48	15 55	18 47	12 12	S 30
Su 31	23 S 05	12 S 53	24 S 45	14 S 23	11 S 47	19 N 49	16 N 47	15 S 54	18 S 47	12 S 12	D 31

24h MOTION

JOUR DIA	☉	☽
	′ ″	° ′ ″
V 1	60 50	11 46 52
S 2	60 51	11 50 58
D 3	60 52	12 00 08
L 4	60 53	12 14 26
Ma 5	60 54	12 33 34
Me 6	60 54	12 56 43
J 7	60 55	13 22 32
V 8	60 56	13 49 03
S 9	60 57	14 13 52
D 10	60 58	14 34 26
L 11	60 58	14 48 32
Ma 12	60 59	14 54 49
Me 13	61 00	14 53 05
J 14	61 01	14 44 14
V 15	61 02	14 29 58
S 16	61 03	14 12 18
D 17	61 04	13 53 07
L 18	61 05	13 33 55
Ma 19	61 06	13 15 42
Me 20	61 07	12 59 01
J 21	61 07	12 44 04
V 22	61 08	12 30 50
S 23	61 09	12 19 13
D 24	61 09	12 09 11
L 25	61 09	12 00 43
Ma 26	61 10	11 54 00
Me 27	61 10	11 49 18
J 28	61 10	11 47 03
V 29	61 10	11 47 42
S 30	61 10	11 51 47
D 31	61 10	11 59 46

● ☽ PHASES ○ ☾

day		h m		☽ long.
M	4	3:56	◐	12♓19
M	11	9:05	○	19♊40
M	18	0:44	◑	26♍24
M	25	17:24	●	04♑14

DATA FOR 0H

1 DECEMBER 2000

Julian day	= 2451879.5
DK SVP	= 2° ♓ 04′ 05″
SVP	= 5° ♓ 15′ 07″
Ayanamsa	= 23° 51′ 53″
Ecliptic Obl.	= 23° 26′ 18″
Nutation	= -17.24″

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 :

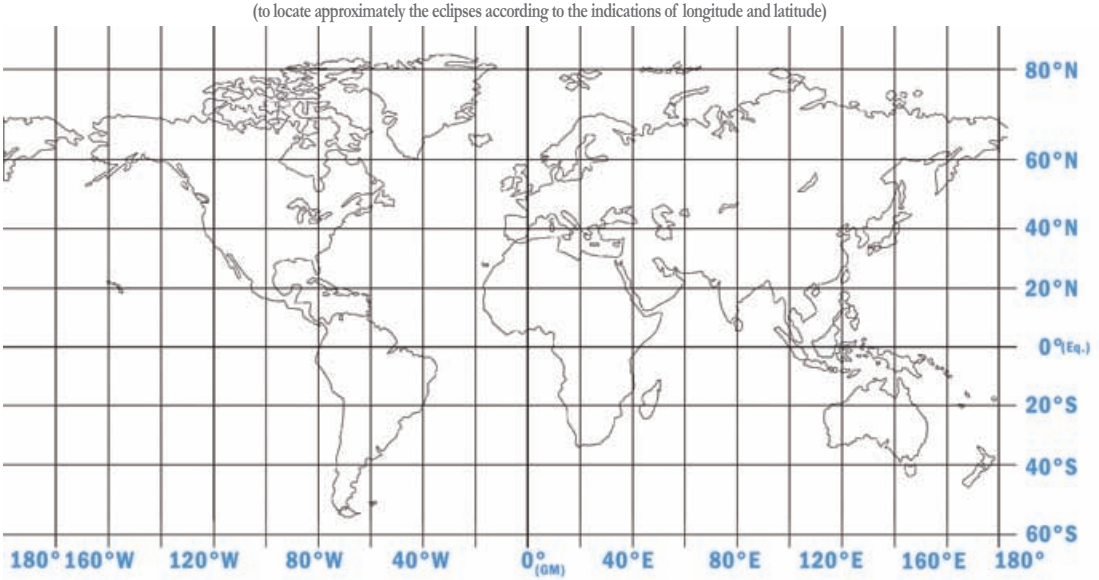
● ... New Moon
◐ ... First Quarter
○ ... Full Moon
◑ ... Last Quarter

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)

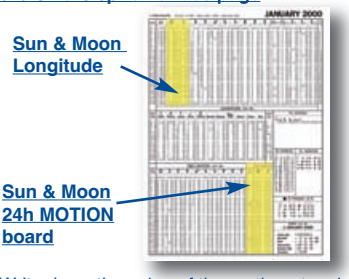


INTERPOLATION TABLES HELP DETERMINE THE PRECISE POSITION OF A PLANET AT ANY TIME THANKS TO A SIMPLE ADDITION

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				
	23h	22h	21h	20h	19h	18h	17h	16h	15h	14h	13h	12h	11h	10h	9h	8h	7h
° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	° '	°
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 46	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 47	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
57 25	55 01	52 38	50 14	47 51	45 27	43 04	40 40	38 17	35 53	33 30	31 06	28 42	26 19	23 55	21 32	19 08	16 45
57 28	55 04	52 41	50 17	47 53	45 30	43 06	40 42	38 19	35 55	33 31	31 08	28 44	26 20	23 57	21 33	19 09	16 46
57 31	55 07	52 43	50 20	47 56	45 32	43 08	40 44	38 21	35 57	33 33	31 09	28 45	26 22	23 58	21 34	19 10	16 47
57 34	55 10	52 46	50 22	47 58	45 34	43 10	40 47	38 23	35 59	33 35	31 11	28 47	26 23	23 59	21 35	19 11	16 47
57 37	55 13	52 49	50 25	48 01	45 37	43 13	40 49	38 25	36 01	33 37	31 13	28 48	26 24	24 00	21 36	19 12	16 48
57 40	55 16	52 52	50 27	48 03	45 39	43 15	40 51	38 27	36 02	33 38	31 14	28 50	26 26	24 02	21 37	19 13	16 49
57 43	55 19	52 54	50 30	48 06	45 42	43 17	40 53	38 29	36 04	33 40	31 16	28 51	26 27	24 03	21 39	19 14	16 50
57 46	55 22	52 57	50 33	48 08	45 44	43 19	40 55	38 31	36 06	33 42	31 17	28 53	26 29	24 04	21 40	19 15	16 51
57 49	55 24	53 00	50 35	48 11	45 46	43 22	40 57	38 33	36 08	33 44	31 19	28 54	26 30	24 05	21 41	19 16	16 52
57 52	55 27	53 03	50 38	48 13	45 49	43 24	40 59	38 35	36 10	33 45	31 21	28 56	26 31	24 07	21 42	19 17	16 53
57 55	55 30	53 05	50 41	48 16	45 51	43 26	41 01	38 37	36 12	33 47	31 22	28 57	26 33	24 08	21 43	19 18	16 54
57 58	55 33	53 08	50 43	48 18	45 53	43 28	41 04	38 39	36 14	33 49	31 24	28 59	26 34	24 09	21 44	19 19	16 54
58 01	55 36	53 11	50 46	48 21	45 56	43 31	41 06	38 41	36 16	33 51	31 26	29 00	26 35	24 10	21 45	19 20	16 55
58 04	55 39	53 14	50 48	48 23	45 58	43 33	41 08	38 43	36 17	33 52	31 27	29 02	26 37	24 12	21 46	19 21	16 56
58 07	55 42	53 16	50 51	48 26	46 01	43 35	41 10	38 45	36 19	33 54	31 29	29 03	26 38	24 13	21 48	19 22	16 57
58 10	55 45	53 19	50 54	48 28	46 03	43 37	41 12	38 47	36 21	33 56	31 30	29 05	26 40	24 14	21 49	19 23	16 58
58 13	55 47	53 22	50 56	48 31	46 05	43 40	41 14	38 49	36 23	33 58	31 32	29 06	26 41	24 15	21 50	19 24	16 59
58 16	55 50	53 25	50 59	48 33	46 08	43 42	41 16	38 51	36 25	33 59	31 34	29 08	26 42	24 17	21 51	19 25	17 00
58 19	55 53	53 27	51 02	48 36	46 10	43 44	41 18	38 53	36 27	34 01	31 35	29 09	26 44	24 18	21 52	19 26	17 01
58 22	55 56	53 30	51 04	48 38	46 12	43 46	41 21	38 55	36 29	34 03	31 37	29 11	26 45	24 19	21 53	19 27	17 01
58 25	55 59	53 33	51 07	48 41	46 15	43 49	41 23	38 57	36 31	34 05	31 39	29 12	26 46	24 20	21 54	19 28	17 02
58 28	56 02	53 36	51 09	48 43	46 17	43 51	41 25	38 59	36 32	34 06	31 40	29 14	26 48	24 22	21 55	19 29	17 03
58 31	56 05	53 38	51 12	48 46	46 20	43 53	41 27	39 01	36 34	34 08	31 42	29 15	26 49	24 23	21 57	19 30	17 04
58 34	56 08	53 41	51 15	48 48	46 22	43 55	41 29	39 03	36 36	34 10	31 43	29 17	26 51	24 24	21 58	19 31	17 05
58 37	56 10	53 44	51 17	48 51	46 24	43 58	41 31	39 05	36 38	34 12	31 45	29 18	26 52	24 25	21 59	19 32	17 06
58 40	56 13	53 47	51 20	48 53	46 27	44 00	41 33	39 07	36 40	34 13	31 47	29 20	26 53	24 27	22 00	19 33	17 07
58 43	56 16	53 49	51 23	48 56	46 29	44 02	41 35	39 09	36 42	34 15	31 48	29 21	26 55	24 28	22 01	19 34	17 08
58 46	56 19	53 52	51 25	48 58	46 31	44 04	41 38	39 11	36 44	34 17	31 50	29 23	26 56	24 29	22 02	19 35	17 08
58 49	56 22	53 55	51 28	49 01	46 34	44 07	41 40	39 13	36 46	34 19	31 52	29 24	26 57	24 30	22 03	19 36	17 09
58 52	56 25	53 58	51 30	49 03	46 36	44 09	41 42	39 15	36 47	34 20	31 53	29 26	26 59	24 32	22 04	19 37	17 10
58 55	56 28	54 00	51 33	49 06	46 39	44 11	41 44	39 17	36 49	34 22	31 55	29 27	27 00	24 33	22 06	19 38	17 11
58 58	56 31	54 03	51 36	49 08	46 41	44 13	41 46	39 19	36 51	34 24	31 56	29 29	27 02	24 34	22 07	19 39	17 12
59 01	56 33	54 06	51 38	49 11	46 43	44 16	41 48	39 21	36 53	34 26	31 58	29 30	27 03	24 35	22 08	19 40	17 13
59 04	56 36	54 09	51 41	49 13	46 46	44 18	41 50	39 23	36 55	34 27	32 00	29 32	27 04	24 37	22 09	19 41	17 14
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
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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
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59 58	57 28	54 58	52 28	49 58	47 28	44 58	42 29	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
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60 37	58 05	55 34	53 02	50 31	47 59	45 28	42 56	40 25	37 53	35 22	32 50	30 18	27 47	25 15	22 44	20 12	17 41
60 40	58 08	55 37	53 05	50 33	48 02	45 30	42 58	40 27	37 55	35 23	32 52	30 20	27 48	25 17	22 45	20 13	17 42
60 43	58 11	55 39	53 08	50 36	48 04	45 32	43 00	40 29	37 57	35 25	32 53	30 21	27 50	25 18	22 46	20 14	17 43
60 46	58 14	55 42	53 10	50 38	48 06	45 34	43 03	40 31	37 59	35 27	32 55	30 23	27 51	25 19	22 47	20 15	17 43
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60 52	58 20	55 48	53 15	50 43	48 11	45 39	43 07	40 35	38 02	35 30	32 58	30 26	27 54	25 22	22 49	20 17	17 45
60 55	58 23	55 50	53 18	50 46	48 14	45 41	43 09	40 37	38 04	35 32	33 00	30 27	27 55	25 23	22 51	20 18	17 46
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61 01	58 28	55 56	53 23	50 51	48 18	45 46	43 13	40 41	38 08	35 36	33 03	30 30	27 58	25 25	22 53	20 20	17 48
61 04	58 31	55 59	53 26	50 53	48 21	45 48	43 15	40 43	38 10	35 37	33 05	30 32	27 59	25 27	22 54	20 21	17 49
61 07	58 34	56 01	53 29	50 56	48 23	45 50	43 17	40 45	38 12	35 39	33 06	30 33	28 01	25 28	22 55	20 22	17 50
61 10	58 37	56 04	53 31	50 58	48 25	45 52	43 20	40 47	38 14	35 41	33 08	30 35	28 02	25 29	22 56	20 23	17 50
24H MOTION	**23h**	**22h**	**21h**	**20h**	**19h**	**18h**	**17h**	**16h**	**15h**	**14h**	**13h**	**12h**	**11h**	**10h**	**9h**	**8h**	**7h**

VEGA EPHEMERIDES 1900-2000

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

complete Information on Eclipses with Geo coordinates

2 Lunar Nodes computation True and Mean

3 Dark Moons computation True, Corrected and Mean

Luminaries to the nearest arc second for calculation of solar & lunar returns

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LONGITUDE FOR 0H UT

11 asteroids Including Chiron and Ceres, every 48 hours

PL. STATION

Planetary Stations easy to read with previous and next station

INGRESS

PL. INGRESS

Ingress best view with 2 columns for Moon and Planets

DECLINATION FOR 0H UT

Planet's declination given every day

24h MOTION

24h Motion for even more accuracy without calculator

PHASES

Lunar Phases with time and Moon longitude

DATA FOR 0H UT
1 FEBRUARY 2000

Julian day	= 2451575.5
DK SVP	= 2° ♓ 04' 43"
SVP	= 5° ♓ 15' 45"
Ayanamsa	= 23° 51' 15"
Ecliptic Obl.	= 23° 26' 16"
Nutation	= -13.25"

Astronomical Data with sidereal landmarks