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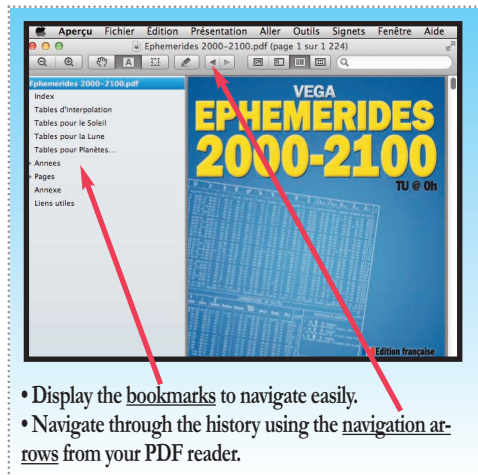
The chart displays a section of the sky with the following features:

- Coordinate Grid:** The horizontal axis represents Right Ascension (RA) in hours, minutes, and seconds. The vertical axis represents Declination (DEC) in degrees, arcminutes, and arcseconds.
- Planetary Positions:** Planets are indicated by symbols and names. For example, Mars (♂) is located near RA 10h 10m, DEC 15° 15'. Jupiter (♃) is near RA 10h 10m, DEC 15° 15'. Saturn (♄) is near RA 10h 10m, DEC 15° 15'.
- Star Catalog:** A list of stars is provided, including their names (e.g., Vesta, Chiron, Haumea, Quaoar, Orcus, Sedna, Eris) and their coordinates.
- Planetary Data Table:** A table at the bottom right lists the planet, date, time, and coordinates for several planets.

Planet	Date	Time	RA (h m s)	DEC (° ' ")
Mars	2000.05.09	8:44:47	10 10 10	15 15 15
Jupiter	2000.05.09	8:44:47	10 10 10	15 15 15
Saturn	2000.05.09	8:44:47	10 10 10	15 15 15
Uranus	2000.05.09	8:44:47	10 10 10	15 15 15
Neptune	2000.05.09	8:44:47	10 10 10	15 15 15
Pluto	2000.05.09	8:44:47	10 10 10	15 15 15

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JANUARY 1950

DAY	ST	☉	☽	♊	♀	♂	♋	♌	♍	♎	♏	♐TRUE	♐MEAN	♑TRUE	♑COR.	♒MEAN	DAY
Su 1	6 40 18	10 10 06	13 24 41	29 27 16	59 2 13	6 30 19	19 26 28	41 17 17	16 17 17	17 17 17	17 17 17	17 17 17	17 17 17	17 17 17	17 17 17	17 17 17	1
M 2	6 44 14	11 01 25	13 43 53	0 28 17	19 2 35	6 44 19	26 2 38	17 17 17	17 47 12	12 24 12	12 04 19	46 4 21	28 57 3	49 04 21	28 57 3	49 04 21	2
T 3	6 48 11	12 03 23	26 18 38	1 24 17	2 56 6	57 19 26	2 36 17	17 17 17	17 46 12	11 12 00	18 02 4	29 49 04	49 29 04	49 29 04	49 29 04	49 29 04	3
W 4	6 52 07	13 03 42	9 09 31	2 13 17	53 3 17	7 11 19	25 2 33	17 18 17	17 45 11	57 11 57	17 07 13	51 13 29	11 4 5	49 13 29	11 4 5	49 13 29	4
Th 5	6 56 04	14 04 50	22 15 50	2 55 18	08 3 38	7 25 19	25 2 31	17 18 17	17 43 11	57 11 54	17 32 5	31 29 17	17 4 5	49 31 29	17 4 5	49 31 29	5
F 6	7 00 00	15 05 59	5 35 52	3 27 18	29 3 59	7 38 19	24 2 28	17 19 17	17 42 11	31 11 51	19 40 5	43 29 24	6 5	49 43 29	24 6 5	49 43 29	6
Sa 7	7 03 57	16 07 19	7 22 3	5 18 29	4 19 7	52 19 23	2 26 17	19 17 41	11 20 11	48 23 24	5 48 29	31 7					7
Su 8	7 07 54	17 08 15	2 48 02	4 04 18	36 4 39	8 06 19	22 2 23	17 19 17	17 40 11	13 45 28	12 5 46	29 37 8	9 8				8
M 9	7 11 50	18 09 23	16 35 57	4 07 18	41 5 58	8 20 19	21 2 21	17 20 17	17 39 11	08 11 37	5 37 29	44 3 9	9 9				9
T 10	7 15 47	19 10 32	0 29 48	3 57 18	44 5 17	8 34 19	20 2 18	17 20 17	17 38 11	07 31 52	5 23 29	51 10 10	10 10				10
W 11	7 19 43	20 11 40	14 28 54	3 36 18	4 36 18	44 5 36	8 38 19	19 2 16	17 20 17	36 11 07	31 35 11	27 5 22	57 11				11
Th 12	7 23 40	21 12 48	28 32 54	3 04 18	42 5 14	9 01 19	17 2 14	17 21 17	17 35 11	07 31 32	14 00 4	38 0 12	12 12				12
F 13	7 27 36	22 13 57	12 14 13	2 19 18	37 6 52	9 15 19	16 2 11	17 21 17	17 34 11	06 29 15	49 4 11	0 11 13	13 13				13
Sa 14	7 31 33	23 15 05	26 52 39	1 25 18	30 6 29	9 29 19	14 2 09	17 21 17	17 33 11	02 25 17	16 3 43	0 17 14	14 14				14
Su 15	7 35 29	24 16 13	11 04 51	0 22 18	20 6 46	9 43 19	13 2 06	17 21 17	17 31 11	55 11 22	18 36 3	14 0 24	15 15				15
M 16	7 39 26	25 17 21	25 14 16	29 56 11	18 08 7	03 58 19	19 2 03	17 21 17	17 30 11	46 11 19	20 41 2	47 0 31	16 16				16
T 17	7 43 23	26 18 29	9 16 28	27 57 53	7 19 10	12 19 09	2 02 17	17 21 17	17 29 11	35 11 16	20 14 2	22 0 38	17 17				17
W 18	7 47 19	27 19 36	23 06 41	26 38 17	36 7 34	10 26 19	07 2 00	17 21 17	17 27 11	22 11 13	19 51 2	00 0 44	18 18				18
Th 19	7 51 16	28 20 43	6 40 38	25 20 17	16 7 50	10 40 19	05 1 57	17 21 17	17 26 11	10 11 10	18 23 1	42 0 51	19 19				19
F 20	7 55 12	29 21 49	19 55 19	2 04 16	54 8 04	10 54 19	03 1 53	17 21 17	17 25 9	59 11 06	15 57 1	28 0 58	20 20				20
Sa 21	7 59 09	0 22 54	2 49 24	52 16 30	8 18 18	11 08 19	01 55 17	21 21 25	9 51 11	03 12 57	1 18 04	04 21					21
Su 22	8 03 05	1 23 58	15 23 26	21 47 16	04 8 32	11 22 18	58 1 51	17 21 17	17 22 9	46 11 00	9 52 1	12 1 11	22 22				22
M 23	8 07 02	2 25 02	27 39 39	20 49 15	36 8 45	11 37 18	56 1 49	17 21 17	17 21 9	43 10 57	7 09 1	09 1 18	23 23				23
T 24	8 10 58	3 26 04	9 41 41	19 59 15	06 8 57	11 51 18	53 1 47	17 21 17	17 19 9	42 10 54	5 00 1	08 1 24	24 24				24
W 25	8 14 55	4 27 05	21 34 09	18 14 34	9 10 12	05 18 51	51 1 44	17 21 17	17 18 9	42 10 50	3 25 1	09 1 31	25 25				25
Th 26	8 18 52	5 28 06	3 22 19	18 46 14	01 9 21	12 19 18	48 1 42	17 21 17	17 16 9	43 10 47	2 10 1	09 1 38	26 26				26
F 27	8 22 48	6 29 05	15 11 41	18 23 13	26 9 32	12 34 18	45 1 40	17 20 17	17 15 9	42 10 44	0 54 1	09 1 44	27 27				27
Sa 28	8 26 45	7 30 03	27 07 41	18 09 12	51 9 42	12 48 18	42 1 38	17 20 17	17 14 9	40 10 41	29 07 1	07 1 51	28 28				28
Su 29	8 30 41	8 31 00	9 11 22	18 04 12	14 9 52	13 02 18	39 1 37	17 20 17	17 12 9	36 10 30	27 01 1	01 1 58	29 29				29
M 30	8 34 38	9 31 56	21 38 59	18 06 11	37 10 10	13 16 18	36 1 35	17 19 17	17 11 9	29 10 35	24 07 0	51 2 04	30 30				30
T 31	8 38 34	10 32 51	4 21 36	18 05 15	11 37 10	13 16 18	36 1 35	17 19 17	17 10 9	29 10 35	24 07 0	51 2 04	31 31				31
LONGITUDE FOR 0H																	

LONGITUDE FOR 0H

DAY TAG	♀ CERES	♀ PALLAS	♂ JUNON	♂ VESTA	♂ CHIRON	HAUMEA	QUAAR	MAKE-MAKE	ORCUS	SEDNA	ERIS	JOUR DIA	PL. STATION		
													day		
Su 1	24 11	4 5	5 11	53	47	21 19	46	7 33	21 08	24 12	22 05	6 20	D 1	M 9 ♀ R 04 00 07 (D 3 05 57 1949.10.13)	
T 3	25 28	6 35	2 56	11 45	15 00	21 00	44	7 33	21 18	24 20	22 52	6 20	Ma 3	W 11 ♀ R 18 00 44 (D 24 19 39 1948.07.17 ~ D 3 00 06 1950.02.21)	
Th 5	26 15	7 16	3 11	12 44	16 14	21 43		7 33	21 15	24 17	22 52	6 21	S 5	L 19 ♂ R 17 02 21 (D 12 02 24 1949.06.24 ~ D 14 03 35 1950.06.27)	
Ta 7	27 01	7 56	3 25	13 44	16 27	21 41		7 33	21 13	24 15	22 52	6 21	J 7	M 30 ♀ D 18 05 06 (R 27 03 31 1950.05.04)	
M 9	27 47	8 35	3 38	14 44	16 40	21 39		7 33	21 10	24 13	22 52	6 21	Th 9		
W 11	28 32	9 14	3 49	15 44	16 53	21 37		7 33	21 08	24 10	22 52	6 22	Me 11		
F 13	29 17	9 52	3 58	16 44	17 06	21 35		7 33	21 06	24 08	22 52	6 22	V 13		
Su 15	0 01	10 30	4 06	17 43	17 18	21 34		7 33	21 03	24 06	22 52	6 22	D 15		
T 17	0 45	11 06	4 13	18 43	17 31	21 32		7 32	21 01	24 03	22 52	6 23	Ma 17		
Th 19	1 29	11 42	4 18	19 44	17 43	21 30		7 32	21 00	24 01	22 52	6 24	J 19		
Sa 21	2 12	12 17	4 21	20 44	17 55	21 27		7 31	20 56	23 59	22 53	6 24	Sa 21		
M 23	2 54	12 51	4 23	21 44	18 07	21 25		7 30	20 53	23 57	22 53	6 25	L 23		
W 25	3 36	13 24	4 22	22 44	18 16	21 23		7 30	20 51	23 55	22 53	6 25	Me 25		
F 27	4 17	13 56	4 21	23 44	18 30	21 21		7 29	20 49	23 53	22 53	6 26	V 27		
Su 29	4 58	14 28	4 21	24 44	18 41	21 19		7 28	20 46	23 51	22 53	6 27	Ma 29		
T 31	5 38	14 58	4 21	25 44	18 51	21 17		7 27	20 44	23 50	22 54	6 28	Ma 31		

DECLINATION FOR 0H

DAY TAG	☉	☾	♀	♀	♂	♂	♂	♂	♂	♂	JOUR DIA	☉	☾	Th 12 Sa 14 M 16 W 18 F 20 M 23 W 25 Sa 28 M 30	2:28 5:18 8:09 12:07 18:39 4:40 17:09 5:37 15:49	☾ ☾ ☾ ☾ ☾ ☾ ☾ ☾ ☾										
Su 1	23	S 04	24	N 09	21	S 28	15	S 09	1	N 26	19	S 13	6	N 02	23	N 41	5	S 19	23	N 18	D 1	61	09	12	19	12
M 2	22	59	26	49	21	05	14	52	1	18	10	10	6	02	23	41	5	19	23	18	L 2	61	09	12	34	46
T 3	22	54	28	12	20	41	14	35	1	10	10	06	6	02	23	41	5	19	23	19	Ma 3	61	08	12	50	53
W 4	22	48	28	07	20	17	14	18	1	03	10	03	6	03	23	42	5	19	23	19	Me 4	61	08	13	06	19
Th 5	22	42	26	27	19	54	14	01	0	56	19	00	6	03	23	42	5	19	20	J 5	61	08	13	20	02	
F 6	22	36	23	18	19	31	13	45	0	48	18	56	6	04	23	42	5	19	23	21	V 6	61	08	13	31	30
Sa 7	22	28	18	52	19	10	13	30	0	41	18	53	6	04	23	42	5	20	23	S 7	61	08	13	40	40	
Su 8	22	21	13	24	18	50	13	15	0	35	18	49	6	05	23	42	5	20	23	D 8	61	08	13	47	54	
M 9	22	13	7	13	18	32	13	00	0	28	18	46	6	06	23	42	5	20	23	L 9	61	08	13	53	51	
T 10	22	05	0	39	18	12	14	45	0	21	18	42	6	06	23	42	5	20	23	Ma 10	61	08	13	59	07	
W 11	21	56	5	55	18	03	12	32	0	15	18	38	6	07	23	42	5	20	23	Me 11	61	08	14	04	00	
Th 12	21	46	12	23	17	52	12	18	0	09	18	35	6	08	23	42	5	20	23	J 12	61	08	14	08	20	
F 13	21	37	18	10	17	44	12	06	0	03	18	31	6	09	23	42	5	20	23	V 13	61	08	14	11	26	
Sa 14	21	27	22	59	17	38	11	54	0	S 03	18	27	6	10	23	42	5	20	23	S 14	61	08	14	12	11	
Su 15	21	16	26	26	17	36	11	42	0	08	18	24	6	10	23	42	5	20	23	D 15	61	08	14	09	25	
M 16	21	05	28	12	17	35	11	32	0	14	18	20	6	11	23	42	5	20	23	L 16	61	08	14	02	12	
T 17	20	54	28	08	17	38	11	22	0	19	18	16	6	12	23	42	5	20	23	Ma 17	61	07	13	50	13	
W 18	20	42	26	18	17	42	11	12	0	24	18	13	6	13	23	42	5	20	23	Me 18	61	07	13	33	58	
Th 19	20	30	22	58	17	48	11	04	0	29	18	09	6	14	23	42	5	20	23	J 19	61	06	13	14	41	
F 20	20	18	18	31	17	55	10	56	0	34	18	05	6	15	23	42	5	20	23	V 20	61	05	12	54	05	
Sa 21	20	05	13	19	18	04	10	49	0	38	18	01	6	17	23	42	5	20	23	S 21	61	04	12	34	02	
Su 22	19	51	7	42	18	13	10	43	0	42	17	57	6	18	23	42	5	20	23	D 22	61	03	12	16	13	
M 23	19	38	1	54	18	23	10	38	0	46	17	53	6	19	23	42	5	19	20	L 23	61	02	12	02	02	
T 24	19	24	2	3N 50	18	34	10	33	0	50	17	49	6	20	23	42	5	19	23	Ma 24	61	01	11	52	28	
W 25	19	09	9	23	18	44	10	30	0	54	17	46	6	21	23	42	5	19	23	Me 25	61	00	11	48	10	
Th 26	18	55	14	34	18	55	10	27	0	57	17	42	6	23	23	42	5	19	23	J 26	60	59	11	49	22	
F 27	18	40	19	14	19	06	10	25	1	00	17	38	6	24	23	42	5	19	23	V 27	60	58	11	56	01	
Sa 28	18	24	23	11	19	16	10	23	1	03	17	34	6	25	23	43	5	19	23	S 28	60	57	12	07	41	
Su 29	18	08	26	11	19	27	10	23	1	06	17	30	6	27	23	43	5	19	23	D 29	60	56	12	23	37	
M 30	17	52	28	01	19	36	10	23	1	09	17	22	6	28	23	43	5	18	24	Ma 30	60	55	12	42	38	
T 31	17	35	28	N 26	19	S 46	10	S 24	1	S 11	17	S 26	6	N 30	23	N 43	5	S 18	23	N 35	L 31	60	53	13	03	14
															☉ ☾ PHASES ☉ ☾											
															day	h	m	☉	☾ long.							
															W 4	7:50	☉	13	☾ 26							
															W 11	10:32	☉	20	☉ 39							
															W 18	8:01	☉	27	☉ 39							
															Th 26	4:39	☉	05	☉ 40							
															DATA FOR 0H											
															1 JANUARY 1950											
															Julian day = 2433282.5											
															DK SVP = 2° 31' 46" 30"											
															SVP = 5° 31' 57" 32"											
															Ayanamsa = 23° 09' 27"											
															Ecliptic Obl. = 23° 26' 53"											
															Nutation = -3.25"											

DECEMBER 2050

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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1	h	4	40	12	8	58	13	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17	8	49	39	27	45	25	25	17	16	18	5	17	11	4	44	25	18	28	26	18	38	8	29	11	17	32	10	17

LONGITUDE FOR 0H

DAY TAG	♀ CERES	♀ PALLAS	♂ JUNON	♂ VESTA	♂ CHIRON	PL. STATION									
						HAUMEA	QUAAR	MAKE- MAKE	ORCUS	SEDNA	ERIS	JOUR DIA	day		
Th 31	23 45	19 17	28 08	5 14	14 34	0 59	13 33	5 17	14 41	18 14	0 44	J 1	F 2 ♀ R 27 47		
So Sa	24 35	19 49	3 08	6 19	14 19	1 02	13 29	5 21	14 43	18 41	R 40	S 3	(D 26 49 2050.09.04)		
M 5	25 24	20 29	3 47	7 24	14 54	1 06	13 30	5 23	14 45	18 39	O 39	L 5	Th 22 ♀ D 11 31		
W 7	26 12	21 08	4 25	8 29	15 08	1 09	13 32	5 25	14 47	18 37	O 38	Me 7	(R 15 09 2051.03.22)		
F 9	27 01	21 46	5 04	9 34	15 23	1 12	13 34	5 27	14 48	18 36	O 37	V 9	Th 22 ♀ R 05 17 52		
Su 11	27 48	22 22	5 41	10 39	15 37	1 15	13 36	5 29	14 50	18 35	O 36	D 11	(D 24 50 2050.03.21 ~ D 25 51 2051.04.22)		
T 13	28 36	22 57	6 19	11 43	15 51	1 18	13 38	5 31	14 51	18 33	O 36	Ma 13	Sa 31 ♀ R 25 17 33		
Th 15	29 23	23 31	6 55	12 48	16 06	1 21	13 41	5 33	14 53	18 32	O 35	J 15	(D 16 17 36 2050.05.25 ~ D 17 24 2051.05.30)		
Sa 17	0 17	24 03	7 32	13 53	16 20	1 24	13 43	5 35	14 54	18 31	O 34	S 17			
M 19	0 56	24 34	8 08	14 58	16 34	1 27	13 45	5 37	14 55	18 29	O 34	L 19			
W 21	1 42	25 03	8 44	16 03	16 49	1 29	13 48	5 39	14 56	18 28	O 33	Me 21			
F 23	2 22	25 31	9 19	17 07	17 03	1 32	13 50	5 40	14 57	18 27	O 32	V 23			
Su 25	3 12	25 57	9 53	18 12	17 17	1 35	13 53	5 42	14 58	18 25	O 32	D 25			
T 27	3 56	26 22	10 28	18 16	17 31	1 38	13 55	5 44	14 59	18 24	O 31	Ma 27			
Th 29	4 39	26 44	11 01	20 21	17 45	1 41	13 58	5 45	15 00	18 23	O 31	J 29			
Sa 31	5 27	27 05	11 34	21 25	17 59	1 43	14 00	5 47	15 01	18 22	O 30	S 31			

DECLINATION FOR 0H

DAY	TAY											JOUR			M 12 12:19 ✂	W 14 18:54 ✂	F 16 23:10 ✂	M 19 2:17 ☾	F 23 8:25 ☾	Su 25 12:19 ☾	T 27 17:18 ☾	F 30 0:22 ☾				
		☉	☾	♀	♀	♂	♄	♅	♆	♇	♈	DIA	☉	☾												
Th	1	21 S	47	18 N	45	24 S	56	8 S	17	6 S	20	10 N	28	19 S	41	2 N	38	17 N	41	20 S	28	J	1	60:47	13:03	20
F	2	21	56	16	48	24	43	8	27	6	04	10	27	19	40	2	37	17	40	20	28	V	2	60:48	12:42	47
Sa	3	22	05	14	04	24	23	8	37	5	48	10	26	19	39	2	36	17	40	20	27	S	3	60:50	12:24	10
Mu	4	22	13	10	47	24	12	8	47	5	33	10	25	19	37	2	36	17	40	20	27	D	4	60:51	12:08	48
M	5	22	21	7	06	23	54	8	58	5	17	10	24	19	36	2	35	17	39	20	27	L	5	60:52	11:57	38
T	6	22	29	3	12	23	34	9	10	5	01	10	23	19	35	2	35	17	39	20	26	Ma	6	60:54	11:51	15
W	7	22	36	05	47	23	13	9	22	4	45	10	22	19	34	2	34	17	39	20	26	Me	7	60:55	11:49	57
Th	8	22	42	4	45	22	51	9	34	4	29	10	21	19	32	2	34	17	38	20	25	J	8	60:56	11:53	44
F	9	22	48	8	34	22	27	9	47	4	12	10	20	19	31	2	33	17	38	20	25	V	9	60:58	12:02	16
Sa	10	22	54	12	05	22	02	10	00	3	56	10	20	19	30	2	33	17	38	20	25	S	10	60:59	12:14	58
Mu	11	22	59	15	09	21	38	10	14	3	40	10	19	19	28	2	33	17	37	20	24	D	11	61:00	12:30	58
M	12	23	04	17	35	21	13	10	28	3	24	10	19	19	27	2	32	17	37	20	24	L	12	61:01	12:49	04
T	13	23	08	19	12	20	50	10	42	3	08	10	18	19	25	2	32	17	37	20	23	Ma	13	61:02	13:07	53
W	14	23	12	19	49	20	28	10	56	2	51	10	18	19	24	2	31	17	36	20	23	Me	14	61:03	13:25	54
Th	15	23	15	19	21	20	08	11	11	2	35	10	18	19	23	2	31	17	36	20	22	J	15	61:03	13:41	43
F	16	23	18	17	45	19	51	11	26	2	19	10	18	19	21	2	31	17	36	20	22	V	16	61:04	13:54	16
Sa	17	23	21	15	06	19	38	11	41	2	02	10	18	19	20	2	31	17	35	20	21	S	17	61:04	14:02	58
Su	18	23	23	11	34	19	27	11	56	1	46	10	17	19	17	2	30	17	35	20	21	D	18	61:05	14:07	53
M	19	23	24	7	21	19	20	12	11	1	29	10	18	17	18	2	30	17	35	20	20	L	19	61:05	14:09	34
T	20	23	25	2	43	16	16	12	27	1	13	10	18	15	15	2	30	17	34	20	20	Ma	20	61:05	14:08	49
W	21	23	26	2	N<03																					

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 :

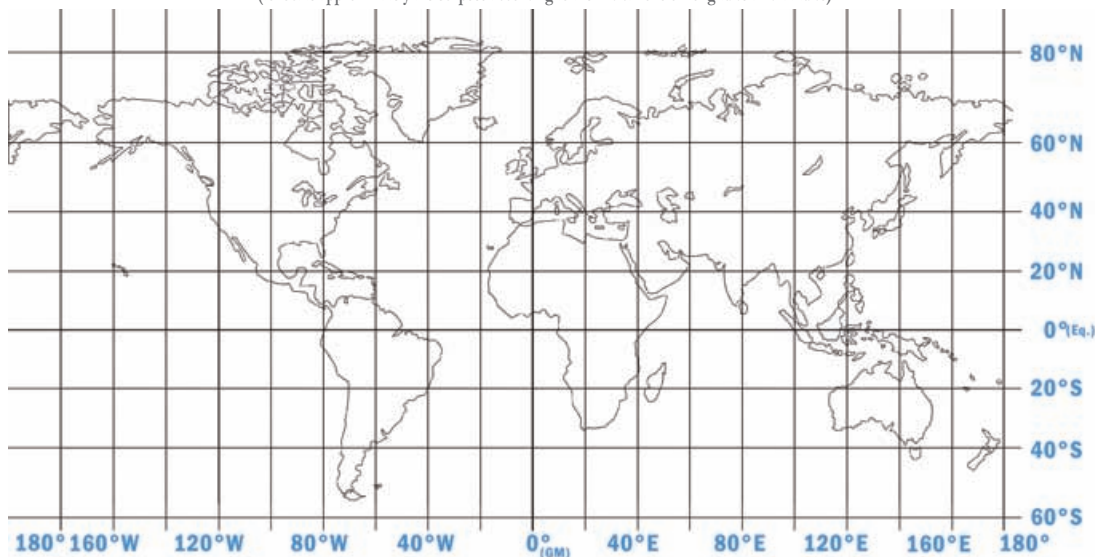
● ... New Moon
 ☾ ... First Quarter
 ○ ... Full Moon
 ☾ ... Last Quarter

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)

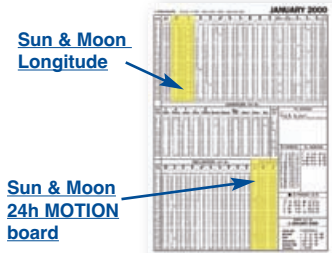


INTERPOLATION TABLES HELP DETERMINE THE PRECISE POSITION OF A PLANET AT ANY TIME THANKS TO A SIMPLE ADDITION

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	
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	
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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	
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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	
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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	
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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

Longitudes in
Tropical zodiac,
at 0 hour for
easy calculations

*Planetary Stations
easy to read
with previous and
next station*

**Ingress best view
with 2 columns for
Moon and
Planets**

Astronomical Data with sidereal landmarks