



Astrodienst Ephemeris Tables for the year 1488

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 1488
geocentric

JANUARY 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 15 25	19°21'20	12°58	0°59	5°R 2	6°27	20°16	28°7 6	7°53	19°32	24°12	6°D16	7°13	11°7 7	12°V 4	T 1
W 2	7 19 22	20°22'25	27°57	2°39	4°35	7°13	20°29	28°12	7°56	19°34	24°12	6°16	7°10	11°14	12° 5	W 2
T 3	7 23 18	21°23'30	12°40	4°19	4° 6	7°58	20°43	28°19	8° 0	19°36	24°13	6°17	7° 7	11°20	12° 6	T 3
F 4	7 27 15	22°24'34	27° 2	5°59	3°35	8°44	20°56	28°26	8° 3	19°38	24°13	6°19	7° 4	11°27	12° 7	F 4
S 5	7 31 11	23°25'38	11°1 1	7°37	3° 3	9°30	21°10	28°32	8° 7	19°40	24°14	6°19	7° 0	11°34	12° 8	S 5
S 6	7 35 8	24°26'42	24°36	9°15	2°29	10°16	21°24	28°39	8°10	19°42	24°14	6°R20	6°57	11°40	12° 9	S 6
M 7	7 39 5	25°27'45	7°48	10°51	1°54	11° 2	21°37	28°46	8°14	19°43	24°15	6°19	6°54	11°47	12°11	M 7
T 8	7 43 1	26°28'48	20°41	12°26	1°19	11°48	21°51	28°52	8°17	19°45	24°15	6°19	6°51	11°53	12°12	T 8
W 9	7 46 58	27°29'50	3°16	13°58	0°42	12°34	22° 5	28°59	8°21	19°47	24°15	6°17	6°48	12° 0	12°14	W 9
T 10	7 50 54	28°30'52	15°37	15°28	0° 5	13°20	22°19	29° 5	8°24	19°49	24°16	6°16	6°45	12° 7	12°15	T 10
F 11	7 54 51	29°31'52	27°47	16°54	29°28	14° 6	22°33	29°12	8°27	19°51	24°16	6°15	6°41	12°13	12°17	F 11
S 12	7 58 47	0°32'52	9°37	18°17	28°51	14°52	22°46	29°18	8°31	19°53	24°16	6°14	6°38	12°20	12°18	S 12
S 13	8 2 44	1°33'52	21°42	19°35	28°15	15°39	23° 0	29°24	8°34	19°55	24°16	6°14	6°35	12°27	12°20	S 13
M14	8 6 40	2°34'50	3°32	20°49	27°39	16°25	23°14	29°31	8°38	19°56	24°17	6°D14	6°32	12°33	12°22	M14
T 15	8 10 37	3°35'47	15°19	21°56	27° 3	17°11	23°28	29°37	8°41	19°58	24°17	6°14	6°29	12°40	12°23	T 15
W16	8 14 34	4°36'43	27° 6	22°57	26°29	17°57	23°42	29°43	8°44	20° 0	24°17	6°14	6°25	12°47	12°25	W16
T 17	8 18 30	5°37'38	8°56	23°50	25°56	18°43	23°57	29°49	8°48	20° 2	24°17	6°14	6°22	12°53	12°27	T 17
F 18	8 22 27	6°38'31	20°50	24°36	25°25	19°30	24°11	29°55	8°51	20° 3	24°R17	6°R14	6°19	13° 0	12°29	F 18
S 19	8 26 23	7°39'23	2°V52	25°12	24°55	20°16	24°25	0°3 1	8°54	20° 5	24°17	6°14	6°16	13° 7	12°31	S 19
S 20	8 30 20	8°40'14	15° 6	25°38	24°27	21° 2	24°39	0° 8	8°57	20° 7	24°17	6°14	6°13	13°13	12°33	S 20
M21	8 34 16	9°41'03	27°35	25°55	24° 1	21°49	24°53	0°14	9° 1	20° 8	24°17	6°14	6°10	13°20	12°35	M21
T 22	8 38 13	10°41'51	10°23	26°R 0	23°37	22°35	25° 7	0°19	9° 4	20°10	24°17	6°D13	6° 6	13°27	12°37	T 22
W23	8 42 9	11°42'37	23°34	25°55	23°15	23°22	25°22	0°25	9° 7	20°12	24°16	6°14	6° 3	13°33	12°39	W23
T 24	8 46 6	12°43'22	7°11	25°39	22°56	24° 8	25°36	0°31	9°10	20°13	24°16	6°14	6° 0	13°40	12°41	T 24
F 25	8 50 3	13°44'05	21°14	25°12	22°38	24°55	25°50	0°37	9°13	20°15	24°16	6°15	5°57	13°46	12°44	F 25
S 26	8 53 59	14°44'47	5°34	24°35	22°24	25°41	26° 5	0°43	9°16	20°16	24°16	6°15	5°54	13°53	12°46	S 26
S 27	8 57 56	15°45'27	20°34	23°49	22°12	26°28	26°19	0°48	9°19	20°18	24°15	6°16	5°51	14° 0	12°48	S 27
M28	9 1 52	16°46'05	5°12	22°55	22° 2	27°14	26°33	0°54	9°22	20°19	24°15	6°R16	5°47	14° 6	12°51	M28
T 29	9 5 49	17°46'42	20°56	21°55	21°55	28° 1	26°48	1° 0	9°25	20°21	24°15	6°16	5°44	14°13	12°53	T 29
W30	9 9 45	18°47'17	6°19	20°51	21°50	28°47	27° 2	1° 5	9°28	20°22	24°14	6°15	5°41	14°20	12°56	W30
T 31	9 13 42	19°47'51	21°19	19°43	21°D48	29°34	27°16	1°31	9°31	20°23	24°14	6°14	5°38	14°26	12°V58	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s 6	16n23	0s37	21s53	1s56	14s41	4n31	24s 6	0s45	15s37	0s53	22s35	0n54	23s36	0s19	21s48
W 2	21 57	10 23	1 57	21 27	1 52	14 33	4 45	24 4	0 46	15 32	0 53	22 36	0 54	23 35	0 19	21 48
T 3	21 48	3 55	3 8	20 59	1 48	14 25	5 0	24 2	0 46	15 28	0 53	22 36	0 54	23 35	0 19	21 48
F 4	21 38	2s35	4 6	20 29	1 43	14 18	5 15	24 0	0 47	15 24	0 53	22 36	0 54	23 35	0 19	21 48
S 5	21 28	8 46	4 47	19 59	1 37	14 12	5 29	23 57	0 47	15 19	0 53	22 36	0 54	23 35	0 19	21 48
S 6	21 17	14 22	5 11	19 27	1 31	14 6	5 42	23 54	0 48	15 15	0 53	22 36	0 54	23 35	0 19	21 48
M 7	21 6	19 9	5 17	18 54	1 23	14 1	5 55	23 51	0 48	15 11	0 53	22 36	0 54	23 34	0 19	21 48
T 8	20 55	22 54	5 7	18 19	1 15	13 56	6 8	23 47	0 49	15 6	0 53	22 36	0 54	23 34	0 19	21 49
W 9	20 43	25 30	4 43	17 44	1 6	13 52	6 20	23 44	0 49	15 2	0 53	22 36	0 54	23 34	0 19	21 49
T 10	20 31	26 48	4 6	17 8	0 56	13 49	6 31	23 40	0 50	14 57	0 53	22 36	0 54	23 34	0 19	21 49
F 11	20 18	26 47	3 18	16 32	0 45	13 46	6 41	23 35	0 50	14 53	0 53	22 36	0 54	23 33	0 19	21 49
S 12	20 5	25 30	2 22	15 56	0 34	13 44	6 51	23 31	0 51	14 48	0 53	22 37	0 54	23 33	0 19	21 49
S 13	19 52	23 4	1 20	15 19	0 21	13 43	7 0	23 26	0 51	14 43	0 53	22 37	0 54	23 33	0 19	21 49
M14	19 38	19 40	0 15	14 43	0 8	13 42	7 8	23 21	0 52	14 39	0 53	22 37	0 54	23 33	0 19	21 49
T 15	19 24	15 29	0n50	14 8	0n 6	13 41	7 15	23 16	0 52	14 34	0 53	22 37	0 54	23 33	0 19	21 49
W16	19 10	10 44	1 54	13 34	0 21	13 42	7 21	23 10	0 53	14 30	0 53	22 37	0 54	23 32	0 19	21 49
T 17	18 55	5 35	2 52	13 2	0 37	13 42	7 26	23 4	0 53	14 25	0 53	22 37	0 54	23 32	0 19	21 50
F 18	18 40	0 13	3 44	12 32	0 53	13 43	7 31	22 58	0 53	14 20	0 53	22 37	0 54	23 32	0 19	21 50
S 19	18 24	5n12	4 26	12 4	1 9	13 45	7 35	22 52	0 54	14 16	0 53	22 37	0 54	23 32	0 19	21 50
S 20	18 9	10 31	4 57	11 39	1 26	13 47	7 37	22 45	0 54	14 11	0 53	22 37	0 54	23 32	0 19	21 50
M21	17 53	15 32	5 14	11 18	1 44	13 49	7 39	22 38	0 55	14 6	0 53	22 37	0 54	23 31	0 19	21 50
T 22	17 36	19 59	5 17	11 0	2 1	13 52	7 41	22 31	0 55	14 1	0 53	22 37	0 54	23 31	0 20	21 50
W23	17 19	23 37	5 4	10 46	2 17	13 55	7 41	22 24	0 56	13 56	0 53	22 37	0 54	23 31	0 20	21 50
T 24	17 2	26 3	4 33	10 36	2 33	13 59	7 41	22 16	0 56	13 52	0 53	22 37	0 54	23 31	0 20	21 50
F 25	16 45	26 58	3 45	10 31	2 48	14 3	7 39	22 8	0 57	13 47	0 53	22 37	0 54	23 31	0 20	21 50
S 26	16 27	26 5	2 42	10 30	3 2	14 7	7 38	22 0	0 57	13 42	0 53	22 37	0 54	23 30	0 20	21 50
S 27	16 9	23 21	1 26	10 34	3 14	14 11	7 35	21 52	0 58	13 37	0 54	22 37	0 54	23 30	0 20	21 50
M28	15 51	18 57	0 3	10 41	3 25	14 15	7 32	21 43	0 58	13 32	0 54	22 37	0 54	23 30	0 20	21 51
T 29	15 33	13 17	1s21	10 53	3 33	14 20	7 29	21 34	0 58	13 27	0 54	22 37	0 54	23 30	0 20	21 51
W30	15 14	6 50	2 38	11 7	3 39	14 24	7 25	21 25	0 59	13 22	0 54	22 37	0 54	23 30	0 20	21 51
T 31	14s55	0n 5	3s44	11s25	3n43	14s29	7n21	21s16	0s59	13s18	0s54	22s37	0n54	23s29	0s20	21s51

Julian Day Number = 2264549.5, Delta T = 05m16s

Ecliptic obliquity = 23°30'26", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°35'48", Lahiri = 16°42'49" Julian Calendar 1 Jan. 1488 == Greg. Calendar 10 Jan. 1488

ASTRODIENST EPHEMERIS for the year 1488

geocentric

FEBRUARY 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 17 38	20 ⁴⁸ 23	5 ⁴⁹	18 ³⁴	21 ⁴⁸	0 ²¹	27 ³¹	1 ¹⁶	9 ³⁴	20 ²⁵	24 ¹³	6 ¹²	5 ³⁵	14 ³³	13 ¹	F 1
S 2	9 21 35	21 ⁴⁸ 54	20 ³	17 ²⁶	21 ⁵⁰	1 ⁷	27 ⁴⁵	1 ²¹	9 ³⁷	20 ²⁶	24 ¹³	6 ¹⁰	5 ³¹	14 ⁴⁰	13 ³	S 2
S 3	9 25 32	22 ⁴⁹ 24	3 ⁵⁰	16 ²¹	21 ⁵⁵	1 ⁵⁴	28 ⁰	1 ²⁷	9 ⁴⁰	20 ²⁷	24 ¹²	6 ⁸	5 ²⁸	14 ⁴⁶	13 ⁶	S 3
M 4	9 29 28	23 ⁴⁹ 53	17 ⁹	15 ¹⁹	22 ³	2 ⁴¹	28 ¹⁴	1 ³²	9 ⁴³	20 ²⁹	24 ¹²	6 ⁷	5 ²⁵	14 ⁵³	13 ⁹	M 4
T 5	9 33 25	24 ⁵⁰ 20	0 ²	14 ²²	22 ¹²	3 ²⁷	28 ²⁹	1 ³⁷	9 ⁴⁶	20 ³⁰	24 ¹¹	6 ⁰	5 ²²	15 ⁰	13 ¹¹	T 5
W 6	9 37 21	25 ⁵⁰ 46	12 ³⁴	13 ³¹	22 ²⁴	4 ¹⁴	28 ⁴³	1 ⁴²	9 ⁴⁸	20 ³¹	24 ¹¹	6 ⁸	5 ¹⁹	15 ⁶	13 ¹⁴	W 6
T 7	9 41 18	26 ⁵¹ 10	24 ⁴⁹	12 ⁴⁷	22 ³⁸	5 ¹	28 ⁵⁷	1 ⁴⁷	9 ⁵¹	20 ³²	24 ¹⁰	6 ¹⁰	5 ¹⁶	15 ¹³	13 ¹⁷	T 7
F 8	9 45 14	27 ⁵¹ 34	6 ⁵¹	12 ¹⁰	22 ⁵⁴	5 ⁴⁸	29 ¹²	1 ⁵²	9 ⁵⁴	20 ³³	24 ⁹	6 ¹¹	5 ¹²	15 ²⁰	13 ²⁰	F 8
S 9	9 49 11	28 ⁵¹ 55	18 ⁴⁴	11 ⁴⁰	23 ¹²	6 ³⁴	29 ²⁶	1 ⁵⁷	9 ⁵⁶	20 ³⁵	24 ⁸	6 ¹³	5 ⁹	15 ²⁶	13 ²²	S 9
S 10	9 53 7	29 ⁵² 15	0 ³²	11 ¹⁷	23 ³²	7 ²¹	29 ⁴¹	2 ²	9 ⁵⁹	20 ³⁶	24 ⁸	6 ¹⁴	5 ⁶	15 ³³	13 ²⁵	S 10
M 11	9 57 4	0 ⁵² 33	12 ¹⁸	11 ²	23 ⁵⁴	8 ⁸	29 ⁵⁵	2 ⁶	10 ²	20 ³⁷	24 ⁷	6 ¹⁴	5 ³	15 ³⁹	13 ²⁸	M 11
T 12	10 1 1	1 ⁵² 50	24 ⁵	10 ⁵⁴	24 ¹⁷	8 ⁵⁵	0 ¹⁰	2 ¹¹	10 ⁴	20 ³⁸	24 ⁶	6 ¹²	5 ⁰	15 ⁴⁶	13 ³¹	T 12
W 13	10 4 57	2 ⁵³ 05	5 ⁵⁶	10 ⁵²	24 ⁴³	9 ⁴²	0 ²⁴	2 ¹⁶	10 ⁷	20 ³⁹	24 ⁵	6 ¹⁰	4 ⁵⁶	15 ⁵³	13 ³⁴	W 13
T 14	10 8 54	3 ⁵³ 18	17 ⁵²	10 ⁵⁷	25 ¹⁰	10 ²⁹	0 ³⁹	2 ²⁰	10 ⁹	20 ⁴⁰	24 ⁴	6 ⁶	4 ⁵³	15 ⁵⁹	13 ³⁷	T 14
F 15	10 12 50	4 ⁵³ 29	29 ⁵⁶	11 ⁸	25 ³⁸	11 ¹⁵	0 ⁵³	2 ²⁵	10 ¹²	20 ⁴¹	24 ³	6 ¹	4 ⁵⁰	16 ⁶	13 ⁴⁰	F 15
S 16	10 16 47	5 ⁵³ 38	12 ¹	11 ²⁵	26 ⁸	12 ²	1 ⁸	2 ²⁹	10 ¹⁴	20 ⁴²	24 ²	5 ⁵⁵	4 ⁴⁷	16 ¹³	13 ⁴³	S 16
S 17	10 20 43	6 ⁵³ 45	24 ³¹	11 ⁴⁷	26 ⁴⁰	12 ⁴⁹	1 ²²	2 ³³	10 ¹⁶	20 ⁴²	24 ¹	5 ⁵⁰	4 ⁴⁴	16 ¹⁹	13 ⁴⁷	S 17
M 18	10 24 40	7 ⁵³ 50	7 ⁶	12 ¹⁵	27 ¹³	13 ³⁶	1 ³⁷	2 ³⁷	10 ¹⁹	20 ⁴³	24 ⁰	5 ⁴⁶	4 ⁴¹	16 ²⁶	13 ⁵⁰	M 18
T 19	10 28 36	8 ⁵³ 53	19 ⁵⁷	12 ⁴⁷	27 ⁴⁸	14 ²³	1 ⁵¹	2 ⁴²	10 ²¹	20 ⁴⁴	23 ⁵⁹	5 ⁴³	4 ³⁷	16 ³³	13 ⁵³	T 19
W 20	10 32 33	9 ⁵³ 54	3 ⁵	13 ²³	28 ²³	15 ¹⁰	2 ⁵	2 ⁴⁶	10 ²³	20 ⁴⁵	23 ⁵⁸	5 ⁴¹	4 ³⁴	16 ³⁹	13 ⁵⁶	W 20
T 21	10 36 30	10 ⁵³ 52	16 ³²	14 ⁴	29 ⁰	15 ⁵⁷	2 ²⁰	2 ⁵⁰	10 ²⁵	20 ⁴⁶	23 ⁵⁷	5 ⁴¹	4 ³¹	16 ⁴⁶	13 ⁵⁹	T 21
F 22	10 40 26	11 ⁵³ 49	0 ²²	14 ⁴⁸	29 ³⁹	16 ⁴⁴	2 ³⁴	2 ⁵⁴	10 ²⁸	20 ⁴⁶	23 ⁵⁶	5 ⁴²	4 ²⁸	16 ⁵³	14 ³	F 22
S 23	10 44 23	12 ⁵³ 43	14 ³³	15 ³⁶	0 ¹⁸	17 ³¹	2 ⁴⁸	2 ⁵⁷	10 ³⁰	20 ⁴⁷	23 ⁵⁵	5 ⁴⁴	4 ²⁵	16 ⁵⁹	14 ⁶	S 23
S 24	10 48 19	13 ⁵³ 35	29 ⁶	16 ²⁸	0 ⁵⁹	18 ¹⁸	3 ³	3 ¹	10 ³²	20 ⁴⁸	23 ⁵⁴	5 ⁴⁵	4 ²²	17 ⁶	14 ⁹	S 24
M 25	10 52 16	14 ⁵³ 24	13 ⁵	17 ²²	1 ⁴⁰	19 ⁴	3 ¹⁷	3 ⁵	10 ³⁴	20 ⁴⁸	23 ⁵³	5 ⁴⁵	4 ¹⁸	17 ¹³	14 ¹³	M 25
T 26	10 56 12	15 ⁵³ 12	29 ⁰	18 ¹⁹	2 ²³	19 ⁵¹	3 ³¹	3 ⁸	10 ³⁶	20 ⁴⁹	23 ⁵¹	5 ⁴³	4 ¹⁵	17 ¹⁹	14 ¹⁶	T 26
W 27	11 0 9	16 ⁵² 57	14 ⁶	19 ²⁰	3 ⁷	20 ³⁸	3 ⁴⁶	3 ¹²	10 ³⁸	20 ⁴⁹	23 ⁵⁰	5 ³⁹	4 ¹²	17 ²⁶	14 ¹⁹	W 27
T 28	11 4 5	17 ⁵² 40	29 ⁷	20 ²²	3 ⁵²	21 ²⁵	4 ⁰	3 ¹⁵	10 ⁴⁰	20 ⁵⁰	23 ⁴⁹	5 ³³	4 ⁹	17 ³²	14 ²³	T 28
F 29	11 8 2	18 ⁵² 22	13 ⁵²	21 ²⁸	4 ³⁷	22 ¹²	4 ¹⁴	3 ¹⁹	10 ⁴¹	20 ⁵¹	23 ⁴⁸	5 ²⁶	4 ⁶	17 ³⁹	14 ²⁶	F 29

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14s36	6s30	4s33	11s44	3n45	14s34	7n16	21s 6	1s 0	13s13	0s54	22s37	0n54	23s29	0s20	21s51	1n19
S 2	14 17	12 33	5 4	12 6	3 44	14 39	7 10	20 56	1 0	13 8	0 54	22 37	0 54	23 29	0 20	21 51	1 19
S 3	13 57	17 47	5 16	12 28	3 41	14 44	7 5	20 46	1 0	13 3	0 54	22 36	0 54	23 29	0 20	21 51	1 19
M 4	13 37	21 58	5 11	12 51	3 36	14 48	6 59	20 36	1 1	12 58	0 54	22 36	0 54	23 29	0 20	21 51	1 19
T 5	13 17	24 56	4 50	13 14	3 29	14 53	6 53	20 26	1 1	12 53	0 54	22 36	0 54	23 29	0 20	21 51	1 19
W 6	12 56	26 35	4 15	13 36	3 21	14 58	6 46	20 15	1 2	12 48	0 54	22 36	0 54	23 28	0 20	21 51	1 19
T 7	12 36	26 54	3 29	13 58	3 11	15 2	6 39	20 4	1 2	12 43	0 54	22 36	0 54	23 28	0 20	21 51	1 19
F 8	12 15	25 55	2 35	14 19	3 0	15 6	6 32	19 53	1 2	12 38	0 54	22 36	0 54	23 28	0 20	21 51	1 19
S 9	11 54	23 46	1 35	14 38	2 48	15 11	6 25	19 42	1 3	12 33	0 54	22 36	0 54	23 28	0 20	21 51	1 19
S 10	11 33	20 36	0 31	14 56	2 36	15 15	6 18	19 30	1 3	12 28	0 54	22 36	0 54	23 28	0 20	21 51	1 19
M 11	11 12	16 37	0n33	15 13	2 23	15 18	6 10	19 18	1 3	12 23	0 54	22 36	0 54	23 27	0 20	21 51	1 19
T 12	10 50	12 0	1 37	15 28	2 10	15 22	6 3	19 6	1 4	12 18	0 54	22 36	0 54	23 27	0 20	21 51	1 19
W 13	10 28	6 56	2 36	15 41	1 56	15 25	5 55	18 54	1 4	12 12	0 54	22 36	0 54	23 27	0 20	21 51	1 19
T 14	10 7	1 36	3 29	15 53	1 43	15 28	5 47	18 42	1 4	12 7	0 54	22 36	0 54	23 27	0 20	21 51	1 19
F 15	9 45	3n50	4 13	16 3	1 30	15 31	5 39	18 29	1 5	12 2	0 54	22 36	0 54	23 27	0 20	21 51	1 19
S 16	9 23	9 12	4 46	16 11	1 16	15 33	5 31	18 16	1 5	11 57	0 55	22 36	0 54	23 27	0 20	21 52	1 19
S 17	9 0	14 16	5 6	16 17	1 3	15 35	5 23	18 3	1 5	11 52	0 55	22 35	0 54	23 26	0 20	21 52	1 20
M 18	8 38	18 50	5 12	16 22	0 50	15 37	5 15	17 50	1 6	11 47	0 55	22 35	0 54	23 26	0 20	21 52	1 20
T 19	8 15	22 38	5 3	16 25	0 38	15 38	5 7	17 37	1 6	11 42	0 55	22 35	0 54	23 26	0 20	21 52	1 20
W 20	7 53	25 22	4 38	16 26	0 26	15 39	4 59	17 23	1 6	11 37	0 55	22 35	0 54	23 26	0 20	21 52	1 20
T 21	7 30	26 45	3 57	16 26	0 14	15 40	4 51	17 10	1 6	11 32	0 55	22 35	0 54	23 26	0 20	21 52	1 20
F 22	7 7	26 31	3 1	16 24	0 2	15 40	4 43	16 56	1 7	11 27	0 55	22 35	0 54	23 26	0 20	21 52	1 20
S 23	6 44	24 35	1 53	16 21	0s 9	15 40	4 35	16 42	1 7	11 21	0 55	22 35	0 54	23 26	0 20	21 52	1 20
S 24	6 21	20 59	0 36	16 15	0 19	15 40	4 26	16 27	1 7	11 16	0 55	22 35	0 54	23 25	0 20	21 52	1 20
M 25	5 58	15 59	0s45	16 9	0 30	15 39	4 18	16 13	1 8	11 11	0 55	22 35	0 54	23 25	0 20	21 52	1 20
T 26	5 35	9 56	2 3	16 0	0 40	15 37	4 10	15 58	1 8	11 6	0 55	22 35	0 54	23 25	0 20	21 52	1 20
W 27	5 12	3 18	3 13	15 51	0 49	15 35	4 2	15 44	1 8	11 1	0 55	22 34	0 54	23 25	0 20	21 52	1 20
T 28	4 48	3s27	4 9	15 39	0 58	15 33	3 54	15 29	1 8	10 56	0 56	22 34	0 54	23 25	0 20	21 52	1 20
F 29	4s25	9s54	4s48	15s26	1s 7	15s30	3n46	15s14	1s 9	10s51	0s56	22s34	0n54	23s25	0s20	21s52	1n20

Julian Day Number = 2264580.5, Delta T = 05m16s

Ecliptic obliquity = 23°30'26", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°35'53", Lahiri = 16°42'53" Julian Calendar 1 Feb. 1488 == Greg. Calendar 10 Feb. 1488

ASTRODIENST EPHEMERIS for the year 1488
geocentric

MARCH 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 11 59	19°52'01	28°16	22°35	5°24	22°59	4°28	3°22	10°43	20°51	23°R46	5°R20	4°2	17°46	14°V30	S 1
S 2	11 15 55	20°51'39	12°12	23°45	6°11	23°46	4°43	3°25	10°45	20°51	23°45	5°13	3°59	17°52	14°33	S 2
M 3	11 19 52	21°51'15	25°39	24°57	6°59	24°33	4°57	3°28	10°47	20°52	23°44	5°8	3°56	17°59	14°37	M 3
T 4	11 23 48	22°50'49	8°19	26°11	7°48	25°20	5°11	3°31	10°48	20°52	23°42	5°5	3°53	18°6	14°40	T 4
W 5	11 27 45	23°50'21	21°14	27°26	8°38	26°7	5°25	3°34	10°50	20°52	23°41	5°D 4	3°50	18°12	14°44	W 5
T 6	11 31 41	24°49'52	3°29	28°44	9°29	26°54	5°39	3°37	10°52	20°53	23°39	5°4	3°47	18°19	14°47	T 6
F 7	11 35 38	25°49'21	15°30	0°3	10°20	27°41	5°53	3°39	10°53	20°53	23°38	5°5	3°43	18°26	14°51	F 7
S 8	11 39 34	26°48'48	27°21	1°24	11°12	28°27	6°7	3°42	10°55	20°53	23°37	5°7	3°40	18°32	14°54	S 8
S 9	11 43 31	27°48'13	9°7	2°47	12°4	29°14	6°21	3°45	10°56	20°53	23°35	5°R 7	3°37	18°39	14°58	S 9
M10	11 47 28	28°47'36	20°53	4°12	12°57	0°3	6°35	3°47	10°57	20°53	23°34	5°5	3°34	18°46	15°2	M10
T 11	11 51 24	29°46'57	2°44	5°38	13°51	0°48	6°49	3°49	10°59	20°53	23°32	5°1	3°31	18°52	15°5	T 11
W12	11 55 21	0°46'17	14°40	7°5	14°45	1°35	7°3	3°52	11°0	20°53	23°31	4°55	3°28	18°59	15°9	W12
T 13	11 59 17	1°45'34	26°46	8°34	15°40	2°22	7°17	3°54	11°1	20°54	23°29	4°47	3°24	19°6	15°13	T 13
F 14	12 3 14	2°44'49	9°9	10°5	16°36	3°9	7°30	3°56	11°2	20°R54	23°27	4°36	3°21	19°12	15°16	F 14
S 15	12 7 10	3°44'02	21°30	11°37	17°32	3°56	7°44	3°58	11°4	20°53	23°26	4°25	3°18	19°19	15°20	S 15
S 16	12 11 7	4°43'13	4°8	13°10	18°28	4°43	7°58	4°0	11°5	20°53	23°24	4°14	3°15	19°26	15°24	S 16
M17	12 15 3	5°42'22	16°59	14°46	19°25	5°29	8°12	4°1	11°6	20°53	23°23	4°5	3°12	19°32	15°27	M17
T 18	12 19 0	6°41'29	0°2	16°22	20°22	6°16	8°25	4°3	11°7	20°53	23°21	3°57	3°8	19°39	15°31	T 18
W19	12 22 56	7°40'33	13°18	18°0	21°20	7°3	8°39	4°5	11°8	20°53	23°20	3°52	3°5	19°45	15°35	W19
T 20	12 26 53	8°39'35	26°47	19°39	22°18	7°50	8°52	4°6	11°9	20°53	23°18	3°50	3°2	19°52	15°39	T 20
F 21	12 30 50	9°38'35	10°31	21°20	23°17	8°37	9°6	4°8	11°9	20°53	23°16	3°D49	2°59	19°59	15°42	F 21
S 22	12 34 46	10°37'33	24°31	23°3	24°16	9°23	9°19	4°9	11°10	20°52	23°15	3°49	2°56	20°5	15°46	S 22
S 23	12 38 43	11°36'28	8°46	24°46	25°15	10°10	9°32	4°10	11°11	20°52	23°13	3°R49	2°53	20°12	15°50	S 23
M24	12 42 39	12°35'20	23°16	26°32	26°15	10°57	9°46	4°11	11°12	20°52	23°11	3°48	2°49	20°19	15°53	M24
T 25	12 46 36	13°34'11	7°56	28°19	27°15	11°43	9°59	4°12	11°12	20°51	23°10	3°44	2°46	20°25	15°57	T 25
W26	12 50 32	14°32'59	22°41	0°7	28°15	12°30	10°12	4°13	11°13	20°51	23°8	3°38	2°43	20°32	16°1	W26
T 27	12 54 29	15°31'45	7°25	1°57	29°16	13°17	10°25	4°14	11°13	20°51	23°6	3°29	2°40	20°39	16°5	T 27
F 28	12 58 25	16°30'28	21°59	3°48	0°17	14°3	10°38	4°15	11°14	20°50	23°5	3°18	2°37	20°45	16°8	F 28
S 29	13 2 22	17°29'10	6°16	5°41	1°18	14°50	10°51	4°15	11°14	20°50	23°3	3°7	2°33	20°52	16°12	S 29
S 30	13 6 19	18°27'51	20°10	7°36	2°20	15°37	11°4	4°16	11°15	20°49	23°1	2°57	2°30	20°59	16°16	S 30
M31	13 10 15	19°26'29	3°39	9°32	3°22	16°23	11°17	4°16	11°15	20°49	23°0	2°48	2°27	21°5	16°V20	M31

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	4s 1	15s39	5s 7	15s12	1s15	15s27	3n38	14s59	1s 9	10s46	0s56	22s34	0n54	23s25	0s20	21s52	1n20	6n58	17n26	18s59	19s18	14s23	6n48	1n 9	
S 2	3 38	20 24	5 7	14 56	1 22	15 23	3 30	14 43	1 9	10 41	0 56	22 34	0 54	23 25	0 20	21 52	1 20	6 59	17 27	19 1	19 19	14 20	6 49	1 9	
M 3	3 14	23 55	4 50	14 39	1 30	15 19	3 22	14 28	1 9	10 35	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 0	17 27	19 2	19 20	14 18	6 50	1 9	
T 4	2 51	26 3	4 18	14 20	1 36	15 14	3 14	14 12	1 9	10 30	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 1	17 27	19 3	19 20	14 15	6 51	1 9	
W 5	2 27	26 47	3 35	14 0	1 43	15 9	3 7	13 56	1 10	10 25	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 1	17 27	19 3	19 21	14 12	6 53	1 9	
T 6	2 4	26 10	2 42	13 39	1 49	15 3	2 59	13 41	1 10	10 20	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 2	17 28	19 3	19 22	14 9	6 54	1 9	
F 7	1 40	24 20	1 44	13 16	1 54	14 57	2 51	13 25	1 10	10 15	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 3	17 28	19 3	19 22	14 6	6 55	1 9	
S 8	1 16	21 26	0 42	12 52	1 59	14 51	2 44	13 8	1 10	10 10	0 56	22 34	0 54	23 24	0 20	21 52	1 20	7 4	17 28	19 3	19 23	14 3	6 57	1 9	
S 9	0 53	17 41	0n22	12 26	2 4	14 43	2 36	12 52	1 10	10 5	0 57	22 33	0 54	23 24	0 21	21 51	1 20	7 4	17 29	19 3	19 24	14 0	6 58	1 8	
M10	0 29	13 15	1 24	11 59	2 8	14 36	2 29	12 36	1 11	10 0	0 57	22 33	0 54	23 24	0 21	21 51	1 20	7 5	17 29	19 3	19 25	13 58	6 59	1 8	
T 11	0 5	8 19	2 23	11 31	2 12	14 28	2 21	12 19	1 11	9 55	0 57	22 33	0 54	23 24	0 21	21 51	1 20	7 6	17 29	19 4	19 25	13 55	7 1	1 8	
W12	0n18	3 3	3 16	11 1	2 15	14 19	2 14	12 3	1 11	9 50	0 57	22 33	0 54	23 24	0 21	21 51	1 20	7 7	17 29	19 5	19 26	13 52	7 2	1 8	
T 13	0 42	2n23	4 1	10 30	2 17	14 10	2 7	11 46	1 11	9 45	0 57	22 33	0 54	23 23	0 21	21 51	1 20	7 7	17 30	19 7	19 27	13 49	7 3	1 8	
F 14	1 6	7 48	4 35	9 58	2 20	14 0	2 0	11 29	1 11	9 40	0 57	22 33	0 54	23 23	0 21	21 51	1 20	7 8	17 30	19 10	19 28	13 46	7 5	1 8	
S 15	1 29	12 59	4 56	9 24	2 21	13 50	1 53	11 12	1 11	9 35	0 57	22 33	0 54	23 23	0 21	21 51	1 21	7 9	17 30	19 13	19 28	13 43	7 6	1 8	
S 16	1 53	17 42	5 4	8 50	2 23	13 40	1 46	10 55	1 11	9 30	0 57	22 33	0 54	23 23	0 21	21 51	1 21	7 10	17 30	19 15	19 29	13 40	7 7	1 8	
M17	2 16	21 41	4 56	8 13	2 24	13 29	1 39	10 38	1 11	9 25	0 57	22 33	0 54	23 23	0 21	21 51	1 21	7 10	17 30	19 17	19 30	13 37	7 9	1 8	
T 18	2 40	24 40	4 33	7 36	2 24	13 17	1 32	10 21	1 12	9 20	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 11	17 30	19 19	19 31	13 35	7 10	1 8	
W19	3 3	26 21	3 56	6 58	2 24	13 5	1 25	10 3	1 12	9 15	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 12	17 31	19 20	19 31	13 32	7 11	1 8	
T 20	3 27	26 32	3 4	6 18	2 23	12 53	1 19	9 46	1 12	9 10	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 13	17 31	19 21	19 32	13 29	7 13	1 7	
F 21	3 50	25 6	2 1	5 37	2 22	12 40	1 12	9 28	1 12	9 5	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 13	17 31	19 21	19 33	13 26	7 14	1 7	
S 22	4 13	22 5	0 49	4 55	2 20	12 26	1 6	9 11	1 12	9 0	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 14	17 31	19 21	19 34	13 23	7 15	1 7	
S 23	4 36	17 42	0s26	4 12	2 18	12 13	0 59	8 53	1 12	8 55	0 58	22 33	0 54	23 23	0 21	21 51	1 21	7 15	17 31	19 21	19 34	13 20	7 17	1 7	
M24	4 59	12 12	1 41	3 27	2 16	11 58	0 53	8 36	1 12	8 50	0 58	22 32	0 54	23 23	0 21	21 51	1 21	7 15	17 31	19 21	19 35	13 17	7 18	1 7	
T 25	5 22	5 59	2 51	2 42	2 12	11 44	0 47	8 18	1 12	8 45	0 59	22 32	0 54	23 23	0 21	21 51	1 21	7 16	17 31	19 22	19 36	13 14	7 20	1 7	
W26	5 45	0s36	3 49	1 55	2 9	11 29	0 41	8 0	1 12	8 40	0 59	22 32	0 54	23 23	0 21	21 51	1 21	7 17	17 31	19 24	19 36	13 11	7 21	1 7	
T 27	6 8	7 6	4 32	1 8	2 5	11 13	0 35	7 42	1 12	8 35	0 59	22 32	0 54	23 23	0 21	21 51	1 21	7 17	17 32	19 26	19 37	13 8	7 22	1 7	
F 28	6 30	13 9	4 56	0 19	2 0	10 57	0 29	7 24	1 12	8 30	0 59	22 32	0 54	23 23	0 21	21 51	1 21	7 18	17 32	19 28	19 38	13 6	7 24	1 7	
S 29	6 53	18 23	5 1	0n31	1 55	10 41	0 23	7 6	1 12	8 26	0 59	22 32	0 54	23 23	0 21	21 51	1 21	7 19	17 32	19 31	19 39	13 3	7 25	1 7	
S 30	7 15	22 28	4 48	1 21	1 49	10 24	0 18	6 48	1 12	8 21	0 59	22 32	0 54	23 23	0 21	21 50	1 21	7 19	17 32	19 33	19 39	13 0	7 26	1 7	
M31	7n38	25s11	4s20	2n13	1s43	10s 7	0n12	6s30	1s12	8s16	0s59	22s32	0n54	23s23	0s21	21s50	1n21	7n20	17n32	19s35	19s40	12s57	7n28	1n 7	

ASTRODIENST EPHEMERIS for the year 1488
geocentric

APRIL 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
T 1	13 14 12	20°25'05	16°41	11°29	4°24	17°10	11°30	4°16	11°15	20°R48	22°R58	2°R41	2°24	21°12	16°V23	T 1	
W 2	13 18 8	21°23'40	29°20	13°28	5°27	17°56	11°43	4°17	11°16	20°R48	22°R56	2°37	2°21	21°19	16°27	W 2	
T 3	13 22 5	22°22'14	11°38	15°29	6°30	18°43	11°56	4°17	11°16	20°47	22°55	2°35	2°18	21°25	16°31	T 3	
F 4	13 26 1	23°20'45	23°40	17°31	7°33	19°29	12° 8	4°R17	11°16	20°46	22°53	2°D35	2°14	21°32	16°35	F 4	
S 5	13 29 58	24°19'15	5°32	19°34	8°36	20°16	12°21	4°17	11°16	20°46	22°51	2°R35	2°11	21°39	16°38	S 5	
S 6	13 33 54	25°17'43	17°20	21°38	9°40	21° 2	12°33	4°17	11°R16	20°45	22°49	2°34	2° 8	21°45	16°42	S 6	
M 7	13 37 51	26°16'09	29° 9	23°44	10°43	21°49	12°46	4°16	11°16	20°44	22°48	2°32	2° 5	21°52	16°46	M 7	
T 8	13 41 48	27°14'34	11°38	25°51	11°47	22°35	12°58	4°16	11°16	20°43	22°46	2°27	2° 2	21°59	16°49	T 8	
W 9	13 45 44	28°12'57	23° 5	27°58	12°52	23°21	13°10	4°15	11°16	20°43	22°44	2°20	1°59	22° 5	16°53	W 9	
T 10	13 49 41	29°11'19	5°21	0°8	7	23°56	24° 8	13°22	4°15	11°16	20°42	22°43	2° 9	1°55	22°12	16°57	T 10
F 11	13 53 37	0°8	9'38	17°50	2°15	15° 1	24°54	13°34	4°14	11°15	20°41	22°41	1°57	1°52	22°18	17° 1	F 11
S 12	13 57 34	1° 7'56	0°8	3'5	4°25	16° 6	25°40	13°46	4°13	11°15	20°40	22°39	1°44	1°49	22°25	17° 4	S 12
S 13	14 1 30	2° 6'12	13°33	6°34	17°11	26°27	13°58	4°13	11°15	20°39	22°38	1°31	1°46	22°32	17° 8	S 13	
M14	14 5 27	3° 4'27	26°45	8°42	18°16	27°13	14°10	4°12	11°14	20°38	22°36	1°19	1°43	22°38	17°12	M14	
T 15	14 9 23	4° 2'39	10°11	9	10°51	19°21	27°59	14°22	4°11	11°14	20°37	22°34	1°10	1°39	22°45	17°15	T 15
W16	14 13 20	5° 0'50	23°43	12°58	20°27	28°45	14°34	4°10	11°13	20°36	22°33	1° 3	1°36	22°52	17°19	W16	
T 17	14 17 17	5°58'59	7°26	15° 4	21°32	29°31	14°45	4° 8	11°13	20°35	22°31	1° 0	1°33	22°58	17°22	T 17	
F 18	14 21 13	6°57'05	21°17	17° 9	22°38	0°V17	14°57	4° 7	11°12	20°34	22°29	0°58	1°30	23° 5	17°26	F 18	
S 19	14 25 10	7°55'10	5°16	19°12	23°44	1° 3	15° 8	4° 6	11°12	20°33	22°28	0°58	1°27	23°12	17°30	S 19	
S 20	14 29 6	8°53'13	19°23	21°13	24°50	1°49	15°20	4° 4	11°11	20°32	22°26	0°58	1°24	23°18	17°33	S 20	
M21	14 33 3	9°51'13	3°37	23°12	25°57	2°35	15°31	4° 2	11°10	20°31	22°25	0°57	1°20	23°25	17°37	M21	
T 22	14 36 59	10°49'12	17°55	25° 9	27° 3	3°21	15°42	4° 1	11°10	20°30	22°23	0°53	1°17	23°32	17°40	T 22	
W23	14 40 56	11°47'09	2°16	27° 2	28°10	4° 7	15°53	3°59	11° 9	20°29	22°21	0°46	1°14	23°38	17°44	W23	
T 24	14 44 52	12°45'04	16°34	28°53	29°16	4°53	16° 4	3°57	11° 8	20°27	22°20	0°37	1°11	23°45	17°47	T 24	
F 25	14 48 49	13°42'57	0°14	0°14	0°V23	5°38	16°15	3°55	11° 7	20°26	22°18	0°26	1° 8	23°52	17°51	F 25	
S 26	14 52 46	14°40'49	14°41	2°26	1°30	6°24	16°25	3°53	11° 6	20°25	22°17	0°15	1° 5	23°58	17°54	S 26	
S 27	14 56 42	15°38'39	28°20	4° 7	2°38	7°10	16°36	3°51	11° 5	20°24	22°15	0° 4	1° 1	24° 5	17°57	S 27	
M28	15 0 39	16°36'28	11°39	5°45	3°45	7°56	16°47	3°49	11° 4	20°22	22°14	29°54	0°58	24°12	18° 1	M28	
T 29	15 4 35	17°34'15	24°36	7°20	4°52	8°41	16°57	3°47	11° 3	20°21	22°12	29°47	0°55	24°18	18° 4	T 29	
W30	15 8 32	18°32'02	7°12	8°11	6°V0	9°V27	17°17	3°44	11° 2	20°20	22°11	29°43	0°52	24°25	18° 8	W30	

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n 0	26s27	3s38	3n 5	1s36	9s49	0n 7	6s11	1s12	8s11	1s 0	22s32	0n54	23s23	0s21	21s50	1n21	7n21	17n32	19s37	19s41	12s54	7n29	1n 7	
W 2	8 22	26 17	2 47	3 58	1 29	9 31	0 1	5 53	1 12	8 7	1 0	22 32	0 54	23 23	0 21	21 50	1 21	7 21	17 32	19 38	19 42	12 51	7 31	1 7	
T 3	8 44	24 48	1 49	4 52	1 21	9 13	0s 4	5 35	1 12	8 2	1 0	22 32	0 54	23 23	0 21	21 50	1 21	7 22	17 32	19 38	19 42	12 48	7 32	1 6	
F 4	9 6	22 12	0 47	5 46	1 13	8 54	0 9	5 17	1 12	7 57	1 0	22 32	0 54	23 23	0 21	21 50	1 21	7 22	17 32	19 38	19 43	12 45	7 33	1 6	
S 5	9 27	18 41	0n16	6 41	1 5	8 35	0 14	4 58	1 12	7 52	1 0	22 32	0 54	23 23	0 21	21 50	1 21	7 23	17 32	19 38	19 44	12 42	7 35	1 6	
S 6	9 49	14 27	1 17	7 36	0 56	8 16	0 19	4 40	1 12	7 48	1 0	22 32	0 54	23 23	0 21	21 50	1 21	7 24	17 32	19 38	19 44	12 39	7 36	1 6	
M 7	10 10	9 41	2 16	8 31	0 46	7 56	0 24	4 22	1 12	7 43	1 1	22 32	0 54	23 23	0 21	21 50	1 21	7 24	17 32	19 39	19 45	12 36	7 37	1 6	
T 8	10 31	4 32	3 9	9 27	0 37	7 36	0 28	4 3	1 12	7 39	1 1	22 32	0 54	23 23	0 21	21 50	1 21	7 25	17 32	19 40	19 46	12 33	7 39	1 6	
W 9	10 52	0n49	3 54	10 22	0 27	7 15	0 33	3 45	1 12	7 34	1 1	22 32	0 54	23 23	0 21	21 50	1 21	7 25	17 32	19 42	19 47	12 31	7 40	1 6	
T 10	11 13	6 14	4 28	11 17	0 16	6 55	0 37	3 26	1 12	7 30	1 1	22 32	0 54	23 23	0 21	21 50	1 21	7 26	17 32	19 44	19 47	12 28	7 42	1 6	
F 11	11 34	11 30	4 51	12 12	0 6	6 34	0 42	3 8	1 12	7 25	1 1	22 32	0 54	23 23	0 21	21 50	1 21	7 26	17 31	19 47	19 48	12 25	7 43	1 6	
S 12	11 54	16 23	5 0	13 6	0n 5	6 12	0 46	2 49	1 12	7 21	1 1	22 32	0 54	23 23	0 21	21 49	1 21	7 27	17 31	19 50	19 49	12 22	7 44	1 6	
S 13	12 14	20 37	4 54	13 59	0 16	5 51	0 50	2 31	1 11	7 16	1 2	22 32	0 54	23 23	0 21	21 49	1 21	7 27	17 31	19 53	19 49	12 19	7 46	1 6	
M14	12 34	23 53	4 32	14 51	0 26	5 29	0 54	2 12	1 11	7 12	1 2	22 32	0 54	23 23	0 21	21 49	1 22	7 28	17 31	19 55	19 50	12 16	7 47	1 6	
T 15	12 54	25 54	3 54	15 42	0 37	5 7	0 58	1 54	1 11	7 7	1 2	22 32	0 54	23 23	0 21	21 49	1 22	7 28	17 31	19 57	19 51	12 13	7 48	1 6	
W16	13 14	26 24	3 3	16 32	0 47	4 45	1 2	1 35	1 11	7 3	1 2	22 32	0 54	23 23	0 22	21 49	1 22	7 29	17 31	19 59	19 52	12 10	7 50	1 6	
T 17	13 33	25 19	2 1	17 19	0 58	4 22	1 6	1 17	1 11	6 59	1 2	22 32	0 54	23 23	0 22	21 49	1 22	7 29	17 31	20 0	19 52	12 7	7 51	1 6	
F 18	13 52	22 39	0 51	18 5	1 8	3 59	1 9	0 58	1 11	6 54	1 2	22 32	0 54	23 23	0 22	21 49	1 22	7 30	17 31	20 0	19 53	12 4	7 52	1 6	
S 19	14 11	18 38	0s23	18 49	1 17	3 36	1 13	0 40	1 11	6 50	1 3	22 32	0 54	23 24	0 22	21 49	1 22	7 30	17 30	20 0	19 54	12 1	7 54	1 6	
S 20	14 30	13 32	1 36	19 30	1 26	3 13	1 16	0 21	1 11	6 46	1 3	22 32	0 54	23 24	0 22	21 49	1 22	7 30	17 30	20 0	19 54	11 58	7 55	1 5	
M21	14 49	7 40	2 43	20 10	1 35	2 50	1 19	0 3	1 10	6 42	1 3	22 32	0 54	23 24	0 22	21 49	1 22	7 31	17 30	20 0	19 55	11 55	7 56	1 5	
T 22	15 7	1 24	3 41	20 46	1 43	2 26	1 22	0n16	1 10	6 38	1 3	22 33	0 54	23 24	0 22	21 48	1 22	7 31	17 30	20 1	19 56	11 52	7 58	1 5	
W23	15 25	4s57	4 25	21 21	1 51	2 2	1 25	0 34	1 10	6 33	1 3	22 33	0 54	23 24	0 22	21 48	1 22	7 31	17 30	20 3	19 56	11 49	7 59	1 5	
T 24	15 43	11 1	4 52	21 53	1 57	1 38	1 28	0 53	1 10	6 29	1 4	22 33	0 54	23 24	0 22	21 48	1 22	7 32	17 29	20 4	19 57	11 46	8 0	1 5	
F 25	16 0	16 27	5 1	22 22	2 4	1 14	1 31	1 11	1 10	6 25	1 4	22 33	0 54	23 24	0 22	21 48	1 22	7 32	17 29	20 7	19 58	11 43	8 1	1 5	
S 26	16 17	20 56	4 52	22 49	2 9	0 50	1 34	1 29	1 9	6 21	1 4	22 33	0 54	23 24	0 22	21 48	1 22	7 33	17 29	20 9	19 59	11 40	8 3	1 5	
S 27	16 34	24 10	4 26	23 13	2 13	0 26	1 36	1 48	1 9	6 17	1 4	22 33	0 54	23 24	0 22	21 48	1 22	7 33	17 29	20 12	19 59	11 38	8 4	1 5	
M28	16 51	25 58	3 46	23 35	2 17	0 1	1 39	2 6	1 9	6 13	1 5	22 33	0 54	23 24	0 22	21 48	1 22	7 33	17 28	20 14	20 0	11 35	8 5	1 5	
T 29	17 7	26 18	2 55	23 54	2 20	0n24	1 41	2 24	1 9	6 10	1 5	22 33	0 54	23 25	0 22	21 48	1 22	7 33	17 28	20 15	20 1	11 32	8 7	1 5	
W30	17n23	25s15	1s57	24n11	2n22	0n48	1s43	2n42	1s 8	6s 6	1s 5	22s33	0n54	23s25	0s22	21s48	1n22	7n34	17n28	20s16	20s 1	11s29	8n 8	1n 5	

ASTRODIENST EPHEMERIS for the year 1488
geocentric

MAY 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	15 12 28	19 ⁸ 29'47	19 ³ 30	10 ^{II} 19	7 ^Y 7	10 ^Y 12	17 ^H 18	3 ^R 42	11 ^R 1	20 ^R 19	22 ^R 9	29 ^R 41	0 [≈] 49	24 [≈] 32	18 ^Y 11	T 1
F 2	15 16 25	20°27'31	1 [≈] 33	11°44	8°15	10°58	17°28	3 ³ 39	11 ³ 0	20 [≈] 17	22 [≈] 8	29°D40	0°45	24°38	18°14	F 2
S 3	15 20 21	21°25'13	13°27	13° 4	9°23	11°43	17°38	3°37	10°58	20°16	22° 6	29 ³ 41	0°42	24°45	18°18	S 3
S 4	15 24 18	22°22'55	25°16	14°22	10°31	12°29	17°48	3°34	10°57	20°15	22° 5	29°R41	0°39	24°52	18°21	S 4
M 5	15 28 15	23°20'35	7 ^H 7	15°35	11°39	13°14	17°57	3°31	10°56	20°13	22° 4	29°40	0°36	24°58	18°24	M 5
T 6	15 32 11	24°18'15	19° 3	16°45	12°47	13°59	18° 7	3°28	10°54	20°12	22° 2	29°37	0°33	25° 5	18°27	T 6
W 7	15 36 8	25°15'53	1 ^Y 11	17°50	13°55	14°45	18°16	3°25	10°53	20°10	22° 1	29°32	0°30	25°12	18°30	W 7
T 8	15 40 4	26°13'30	13°33	18°52	15° 4	15°30	18°26	3°22	10°51	20° 9	22° 0	29°24	0°26	25°18	18°34	T 8
F 9	15 44 1	27°11'07	26°12	19°50	16°12	16°15	18°35	3°19	10°50	20° 7	21°58	29°15	0°23	25°25	18°37	F 9
S 10	15 47 57	28° 8'42	9 ⁸ 11	20°44	17°21	17° 0	18°44	3°16	10°48	20° 6	21°57	29° 5	0°20	25°32	18°40	S 10
S 11	15 51 54	29° 6'16	22°28	21°34	18°29	17°45	18°53	3°13	10°47	20° 5	21°56	28°54	0°17	25°38	18°43	S 11
M12	15 55 50	0 ^{II} 3'49	6 ^{II} 1	22°20	19°38	18°30	19° 2	3°10	10°45	20° 3	21°54	28°45	0°14	25°45	18°46	M12
T 13	15 59 47	1° 1'21	19°49	23° 2	20°47	19°15	19°11	3° 6	10°44	20° 2	21°53	28°38	0°11	25°51	18°49	T 13
W14	16 3 44	1°58'52	3 [≈] 48	23°39	21°56	20° 0	19°20	3° 3	10°42	20° 0	21°52	28°33	0° 7	25°58	18°52	W14
T 15	16 7 40	2°56'22	17°53	24°12	23° 5	20°45	19°28	3° 0	10°40	19°59	21°51	28°31	0° 4	26° 5	18°55	T 15
F 16	16 11 37	3°53'51	2 ^Ω 3	24°40	24°14	21°30	19°37	2°56	10°38	19°57	21°50	28°D30	0° 1	26°11	18°58	F 16
S 17	16 15 33	4°51'18	16°13	25° 4	25°23	22°14	19°45	2°52	10°37	19°55	21°49	28°31	29 ³ 58	26°18	19° 1	S 17
S 18	16 19 30	5°48'43	0 ^Π 24	25°24	26°32	22°59	19°53	2°49	10°35	19°54	21°47	28°R32	29°55	26°25	19° 3	S 18
M19	16 23 26	6°46'08	14°33	25°39	27°41	23°44	20° 1	2°45	10°33	19°52	21°46	28°32	29°51	26°31	19° 6	M19
T 20	16 27 23	7°43'31	2 ^Ω 38	25°49	28°51	24°28	20° 9	2°41	10°31	19°51	21°45	28°30	29°48	26°38	19° 9	T 20
W21	16 31 19	8°40'53	12 [≈] 38	25°54	0 ⁸ 0	25°13	20°17	2°38	10°29	19°49	21°44	28°26	29°45	26°45	19°12	W21
T 22	16 35 16	9°38'14	26°31	25°R55	1°10	25°57	20°24	2°34	10°27	19°48	21°43	28°20	29°42	26°51	19°14	T 22
F 23	16 39 13	10°35'34	10 ^Π 15	25°52	2°19	26°42	20°31	2°30	10°25	19°46	21°42	28°13	29°39	26°58	19°17	F 23
S 24	16 43 9	11°32'53	23°46	25°44	3°29	27°26	20°39	2°26	10°23	19°44	21°41	28° 5	29°36	27° 5	19°20	S 24
S 25	16 47 6	12°30'12	7 [≈] 3	25°32	4°38	28°10	20°46	2°22	10°21	19°43	21°41	27°58	29°32	27°11	19°22	S 25
M26	16 51 2	13°27'29	20° 3	25°16	5°48	28°54	20°53	2°18	10°19	19°41	21°40	27°52	29°29	27°18	19°25	M26
T 27	16 54 59	14°24'46	2 ³ 47	24°56	6°58	29°38	21° 0	2°14	10°17	19°40	21°39	27°47	29°26	27°25	19°27	T 27
W28	16 58 55	15°22'02	15°14	24°32	8° 8	0 ⁸ 23	21° 6	2°10	10°15	19°38	21°38	27°44	29°23	27°31	19°30	W28
T 29	17 2 52	16°19'18	27°27	24° 6	9°18	1° 7	21°13	2° 6	10°13	19°36	21°37	27°D44	29°20	27°38	19°32	T 29
F 30	17 6 49	17°16'34	9 [≈] 28	23°37	10°28	1°51	21°19	2° 2	10°11	19°35	21°36	27°44	29°17	27°45	19°34	F 30
S 31	17 10 45	18 ^{II} 13'48	21 [≈] 22	23 ^{II} 6	11 ⁸ 38	2 ⁸ 35	21 ^H 25	1 ³ 57	10 ³ 9	19 [≈] 33	21 [≈] 36	27 ³ 46	29 ³ 13	27 [≈] 51	19 ^Y 37	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17n39	22s58	0s54	24n26	2n24	1n13	1s45	3n 0	1s 8	6s 2	1s 5	22s33	0n54	23s25	0s22	21s47	1n22	7n34	17n28	20s17	20s 2	11s26	8n 9	1n 5											
F 2	17 55	19 42	0n10	24 38	2 24	1 38	1 47	3 19	1 8	5 58	1 5	22 33	0 54	23 25	0 22	21 47	1 22	7 34	17 27	20 17	20 3	11 23	8 10	1 5											
S 3	18 10	15 40	1 13	24 48	2 24	2 3	1 49	3 37	1 8	5 55	1 6	22 33	0 54	23 25	0 22	21 47	1 22	7 34	17 27	20 17	20 3	11 20	8 11	1 5											
S 4	18 25	11 4	2 12	24 57	2 22	2 28	1 51	3 55	1 7	5 51	1 6	22 33	0 54	23 25	0 22	21 47	1 22	7 35	17 27	20 16	20 4	11 17	8 13	1 5											
M 5	18 40	6 3	3 6	25 3	2 20	2 53	1 53	4 12	1 7	5 47	1 6	22 33	0 54	23 25	0 22	21 47	1 22	7 35	17 26	20 17	20 5	11 14	8 14	1 5											
T 6	18 54	0 47	3 52	25 7	2 17	3 18	1 54	4 30	1 7	5 44	1 6	22 34	0 54	23 25	0 22	21 47	1 22	7 35	17 26	20 17	20 5	11 11	8 15	1 5											
W 7	19 8	4n34	4 28	25 9	2 13	3 44	1 56	4 48	1 7	5 40	1 7	22 34	0 54	23 26	0 22	21 47	1 22	7 35	17 26	20 18	20 6	11 8	8 16	1 5											
T 8	19 22	9 51	4 53	25 10	2 8	4 9	1 57	5 6	1 6	5 37	1 7	22 34	0 54	23 26	0 22	21 47	1 22	7 35	17 25	20 20	20 7	11 5	8 17	1 5											
F 9	19 35	14 51	5 3	25 9	2 2	4 34	1 58	5 24	1 6	5 33	1 7	22 34	0 54	23 26	0 22	21 47	1 22	7 35	17 25	20 22	20 7	11 2	8 19	1 5											
S 10	19 48	19 19	4 59	25 6	1 56	4 59	2 0	5 41	1 6	5 30	1 7	22 34	0 54	23 26	0 22	21 46	1 22	7 36	17 25	20 24	20 8	10 59	8 20	1 5											
S 11	20 1	22 56	4 39	25 2	1 48	5 24	2 1	5 59	1 5	5 27	1 7	22 34	0 54	23 26	0 22	21 46	1 22	7 36	17 24	20 26	20 9	10 56	8 21	1 5											
M12	20 13	25 21	4 3	24 57	1 40	5 50	2 2	6 16	1 5	5 23	1 8	22 34	0 54	23 26	0 22	21 46	1 22	7 36	17 24	20 28	20 10	10 53	8 22	1 5											
T 13	20 25	26 18	3 12	24 50	1 31	6 15	2 2	6 34	1 5	5 20	1 8	22 34	0 54	23 26	0 22	21 46	1 22	7 36	17 24	20 30	20 10	10 50	8 23	1 4											
W14	20 37	25 36	2 8	24 42	1 20	6 40	2 3	6 51	1 4	5 17	1 8	22 34	0 54	23 27	0 22	21 46	1 22	7 36	17 23	20 31	20 11	10 47	8 24	1 4											
T 15	20 48	23 15	0 57	24 32	1 9	7 5	2 4	7 8	1 4	5 14	1 8	22 34	0 54	23 27	0 22	21 46	1 22	7 36	17 23	20 31	20 12	10 44	8 25	1 4											
F 16	20 59	19 27	0s19	24 21	0 58	7 30	2 4	7 25	1 3	5 11	1 9	22 35	0 54	23 27	0 22	21 46	1 22	7 36	17 22	20 31	20 12	10 41	8 26	1 4											
S 17	21 10	14 32	1 34	24 10	0 45	7 54	2 5	7 42	1 3	5 8	1 9	22 35	0 54	23 27	0 22	21 46	1 22	7 36	17 22	20 31	20 13	10 38	8 27	1 4											
S 18	21 20	8 49	2 43	23 57	0 32	8 19	2 5	7 59	1 3	5 5	1 9	22 35	0 54	23 27	0 22	21 45	1 22	7 36	17 21	20 31	20 14	10 35	8 28	1 4											
M19	21 30	2 42	3 42	23 44	0 17	8 44	2 5	8 16	1 2	5 2	1 9	22 35	0 54	23 27	0 22	21 45	1 22	7 36	17 21	20 31	20 14	10 32	8 29	1 4											
T 20	21 40	3s32	4 27	23 29	0 3	9 8	2 6	8 33	1 2	4 59	1 10	22 35	0 54	23 28	0 22	21 45	1 22	7 36	17 21	20 31	20 15	10 29	8 30	1 4											
W21	21 49	9 33	4 56	23 14	0s13	9 33	2 6	8 50	1 2	4 56	1 10	22 35	0 54	23 28	0 22	21 45	1 22	7 36	17 20	20 32	20 16	10 26	8 31	1 4											
T 22	21 58	15 2	5 7	22 58	0 29	9 57	2 6	9 6	1 1	4 53	1 10	22 35	0 54	23 28	0 22	21 45	1 22	7 36	17 20	20 33	20 16	10 23	8 32	1 4											
F 23	22 6	19 41	5 1	22 42	0 45	10 21	2 6	9 23	1 1	4 51	1 10	22 35	0 54	23 28	0 22	21 45	1 22	7 36	17 19	20 35	20 17	10 20	8 33	1 4											
S 24	22 14	23 15	4 37	22 25	1 2	10 45	2 5	9 39	1 0	4 48	1 11	22 36	0 54	23 28	0 22	21 45	1 22	7 36	17 19	20 36	20 18	10 17	8 34	1 4											
S 25	22 22	25 29	3 59	22 7	1 19	11 8	2 5	9 55	1 0	4 45	1 11	22 36	0 53	23 28	0 22	21 45	1 22	7 36	17 18	20 38	20 18	10 14	8 35	1 4											
M26	22 29	26 17	3 10	21 50	1 36	11 32	2 5	10 11	0 59	4 43	1 11	22 36	0 53	23 29	0 22	21 44	1 22	7 35	17 18	20 39	20 19	10 11	8 36	1 4											
T 27	22 36	25 40	2 11	21 32	1 53	11 55	2 4	10 28	0 59	4 41	1 12	22 36	0 53	23 29	0 22	21 44	1 22	7 35	17 17	20 40	20 20	10 8	8 37	1 4											
W28	22 42	23 45	1 7	21 14	2 9	12 18	2 4	10 43	0 58	4 38	1 12	22 36	0 53	23 29	0 22	21 44	1 22	7 35	17 17	20 40	20 20	10 5	8 38	1 4											
T 29	22 48	20 45	0 1	20 57	2 26	12 41	2 3	10 59	0 58	4 36	1 12	22 36	0 53	23 29	0 22	21 44	1 22	7 35	17 16	20 40	20 21	10 2	8 39	1 4											
F 30	22 54	16 55	1n 3	20 39	2 42	13 4	2 2	11 15	0 57	4 34	1 12	22 36	0 53	23 29	0 22	21 44	1 22	7 35	17 16	20 40	20 22	9 59	8 40	1 4											
S 31	22n59	12s27	2n 5	20n22	2s58	13n26	2s 1	11n31	0s57	4s31	1s13	22s36	0n53	23s30	0s22	21s44	1n22	7n35	17n15	20s40	20s22	9s56	8n41	1n 4											

ASTRODIENST EPHEMERIS for the year 1488

geocentric

JUNE 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 14 42	19°11'03	3°11	22°R33	12°8'48	3°8'18	21°31	1°R53	10°R 6	19°R32	21°R35	27°347	29°310	27°358	19°39	S 1
M 2	17 18 38	20° 8'17	15° 3	21°11'59	13°58	4° 2	21°37	1°349	10°3 4	19°30	21°34	27°R48	29° 7	28° 5	19°41	M 2
T 3	17 22 35	21° 5'31	27° 0	21°25	15° 8	4°46	21°43	1°45	10° 2	19°28	21°34	27°48	29° 4	28°11	19°43	T 3
W 4	17 26 31	22° 2'45	9°Y 8	20°51	16°19	5°30	21°49	1°40	10° 0	19°27	21°33	27°47	29° 1	28°18	19°46	W 4
T 5	17 30 28	22°59'59	21°33	20°17	17°29	6°13	21°54	1°36	9°57	19°25	21°32	27°44	28°57	28°25	19°48	T 5
F 6	17 34 24	23°57'13	4°8'17	19°44	18°40	6°57	21°59	1°32	9°55	19°23	21°32	27°40	28°54	28°31	19°50	F 6
S 7	17 38 21	24°54'26	17°22	19°14	19°50	7°40	22° 4	1°27	9°53	19°22	21°31	27°35	28°51	28°38	19°52	S 7
S 8	17 42 18	25°51'40	0°11'50	18°45	21° 1	8°24	22° 9	1°23	9°51	19°20	21°31	27°30	28°48	28°45	19°54	S 8
M 9	17 46 14	26°48'53	14°40	18°20	22°11	9° 7	22°14	1°19	9°48	19°19	21°30	27°25	28°45	28°51	19°56	M 9
T 10	17 50 11	27°46'06	28°48	17°58	23°22	9°50	22°18	1°14	9°46	19°17	21°30	27°22	28°42	28°58	19°58	T 10
W11	17 54 7	28°43'19	13°51	17°39	24°33	10°33	22°23	1°10	9°44	19°15	21°30	27°20	28°38	29° 5	19°59	W11
T 12	17 58 4	29°40'32	27°42	17°24	25°43	11°16	22°27	1° 5	9°41	19°14	21°29	27°D19	28°35	29°11	20° 1	T 12
F 13	18 2 0	0°37'44	12°16	17°14	26°54	12° 0	22°31	1° 1	9°39	19°12	21°29	27°20	28°32	29°18	20° 3	F 13
S 14	18 5 57	1°34'56	26°47	17° 8	28° 5	12°43	22°35	0°56	9°36	19°11	21°29	27°21	28°29	29°25	20° 5	S 14
S 15	18 9 53	2°32'08	11°12	17°D 7	29°16	13°25	22°38	0°52	9°34	19° 9	21°28	27°22	28°26	29°31	20° 6	S 15
M16	18 13 50	3°29'19	25°27	17°10	0°11'27	14° 8	22°42	0°48	9°32	19° 8	21°28	27°23	28°23	29°38	20° 8	M16
T 17	18 17 47	4°26'29	9°230	17°19	1°38	14°51	22°45	0°43	9°29	19° 6	21°28	27°R23	28°19	29°45	20° 9	T 17
W18	18 21 43	5°23'40	23°20	17°32	2°49	15°34	22°48	0°39	9°27	19° 4	21°28	27°22	28°16	29°51	20°11	W18
T 19	18 25 40	6°20'50	6°11'56	17°51	4° 0	16°16	22°51	0°34	9°24	19° 3	21°28	27°21	28°13	29°58	20°12	T 19
F 20	18 29 36	7°18'00	20°17	18°14	5°11	16°59	22°54	0°30	9°22	19° 1	21°27	27°18	28°10	0°11' 5	20°14	F 20
S 21	18 33 33	8°15'11	3°25	18°43	6°23	17°41	22°56	0°26	9°20	19° 0	21°27	27°15	28° 7	0°11	20°15	S 21
S 22	18 37 29	9°12'21	16°18	19°17	7°34	18°24	22°59	0°21	9°17	18°58	21°D27	27°13	28° 3	0°18	20°16	S 22
M23	18 41 26	10° 9'31	28°58	19°55	8°45	19° 6	23° 1	0°17	9°15	18°57	21°27	27°11	28° 0	0°25	20°18	M23
T 24	18 45 22	11° 6'41	11°324	20°39	9°56	19°48	23° 3	0°13	9°12	18°55	21°27	27° 9	27°57	0°31	20°19	T 24
W25	18 49 19	12° 3'52	23°39	21°28	11° 8	20°30	23° 4	0° 9	9°10	18°54	21°28	27°D 9	27°54	0°38	20°20	W25
T 26	18 53 16	13° 1'03	5°44	22°21	12°19	21°12	23° 6	0° 4	9° 8	18°53	21°28	27° 9	27°51	0°45	20°21	T 26
F 27	18 57 12	13°58'14	17°41	23°19	13°31	21°54	23° 7	0° 0	9° 5	18°51	21°28	27°10	27°48	0°51	20°22	F 27
S 28	19 1 9	14°55'25	29°32	24°22	14°42	22°36	23° 9	29°56	9° 3	18°50	21°28	27°11	27°44	0°58	20°23	S 28
S 29	19 5 5	15°52'38	11°21	25°30	15°54	23°18	23°10	29°52	9° 0	18°48	21°28	27°12	27°41	1° 5	20°24	S 29
M30	19 9 2	16°54'50	23°12	26°11'43	17°11	24° 0	23°10	29°52	8°58	18°47	21°28	27°13	27°38	1°11	20°25	M30

Day	☉	☽		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n 4	7s33	3n 1	20n 6	3s12	13n49	2s 0	11n46	0s56	4s29	1s13	22s36	0n53	23s30	0s23	21s44	1n22	7n34	17n15	20s40	20s23	9s53	8n42	1n 4	
M 2	23 8	2 23	3 49	19 50	3 26	14 10	1 59	12 1	0 56	4 27	1 13	22 37	0 53	23 30	0 23	21 44	1 22	7 34	17 14	20 40	20 24	9 50	8 42	1 4	
T 3	23 12	2n54	4 28	19 35	3 39	14 32	1 58	12 17	0 55	4 25	1 14	22 37	0 53	23 30	0 23	21 44	1 22	7 34	17 14	20 40	20 24	9 47	8 43	1 4	
W 4	23 16	8 9	4 56	19 21	3 51	14 53	1 57	12 32	0 55	4 23	1 14	22 37	0 53	23 30	0 23	21 43	1 22	7 34	17 13	20 40	20 25	9 44	8 44	1 4	
T 5	23 19	13 13	5 10	19 9	4 1	15 14	1 56	12 47	0 54	4 21	1 14	22 37	0 53	23 30	0 23	21 43	1 22	7 33	17 13	20 40	20 26	9 41	8 45	1 4	
F 6	23 22	17 50	5 10	18 57	4 10	15 35	1 55	13 1	0 54	4 20	1 14	22 37	0 53	23 31	0 23	21 43	1 22	7 33	17 12	20 41	20 26	9 38	8 46	1 4	
S 7	23 25	21 45	4 54	18 47	4 18	15 55	1 53	13 16	0 53	4 18	1 15	22 37	0 53	23 31	0 23	21 43	1 22	7 33	17 12	20 42	20 27	9 35	8 46	1 4	
S 8	23 27	24 38	4 21	18 39	4 24	16 16	1 52	13 31	0 53	4 16	1 15	22 37	0 53	23 31	0 23	21 43	1 22	7 32	17 11	20 43	20 28	9 32	8 47	1 4	
M 9	23 28	26 8	3 33	18 32	4 29	16 35	1 51	13 45	0 52	4 15	1 15	22 37	0 53	23 31	0 23	21 43	1 22	7 32	17 11	20 44	20 28	9 29	8 48	1 4	
T 10	23 29	26 0	2 30	18 27	4 32	16 54	1 49	13 59	0 52	4 13	1 16	22 38	0 52	23 31	0 23	21 43	1 22	7 32	17 10	20 45	20 29	9 26	8 49	1 4	
W11	23 30	24 8	1 17	18 23	4 34	17 13	1 47	14 13	0 51	4 12	1 16	22 38	0 52	23 32	0 23	21 43	1 22	7 31	17 10	20 45	20 29	9 23	8 49	1 4	
T 12	23 30	20 39	0s 2	18 21	4 34	17 32	1 46	14 27	0 51	4 10	1 16	22 38	0 52	23 32	0 23	21 42	1 22	7 31	17 9	20 45	20 30	9 20	8 50	1 4	
F 13	23 30	15 52	1 21	18 21	4 33	17 50	1 44	14 41	0 50	4 9	1 16	22 38	0 52	23 32	0 23	21 42	1 22	7 31	17 8	20 45	20 31	9 17	8 50	1 4	
S 14	23 30	10 11	2 35	18 23	4 31	18 8	1 42	14 55	0 49	4 8	1 17	22 38	0 52	23 32	0 23	21 42	1 22	7 30	17 8	20 45	20 31	9 14	8 51	1 4	
S 15	23 29	4 1	3 38	18 27	4 27	18 25	1 40	15 8	0 49	4 7	1 17	22 38	0 52	23 32	0 23	21 42	1 22	7 30	17 7	20 45	20 32	9 11	8 52	1 4	
M16	23 28	2s17	4 27	18 32	4 23	18 42	1 38	15 22	0 48	4 5	1 17	22 38	0 52	23 32	0 23	21 42	1 22	7 29	17 7	20 44	20 33	9 8	8 52	1 4	
T 17	23 26	8 22	5 0	18 38	4 17	18 58	1 36	15 35	0 48	4 4	1 18	22 38	0 52	23 33	0 23	21 42	1 22	7 29	17 6	20 44	20 33	9 5	8 53	1 4	
W18	23 24	13 57	5 14	18 46	4 10	19 14	1 34	15 48	0 47	4 3	1 18	22 38	0 52	23 33	0 23	21 42	1 22	7 28	17 6	20 45	20 34	9 2	8 53	1 4	
T 19	23 21	18 45	5 10	18 56	4 2	19 30	1 32	16 1	0 46	4 3	1 18	22 39	0 52	23 33	0 23	21 42	1 22	7 28	17 5	20 45	20 35	8 58	8 54	1 4	
F 20	23 18	22 31	4 50	19 7	3 53	19 45	1 30	16 13	0 46	4 2	1 19	22 39	0 52	23 33	0 23	21 42	1 22	7 27	17 4	20 45	20 35	8 55	8 54	1 4	
S 21	23 15	25 4	4 15	19 19	3 44	19 59	1 28	16 26	0 45	4 1	1 19	22 39	0 52	23 33	0 23	21 42	1 22	7 27	17 4	20 46	20 36	8 52	8 55	1 4	
S 22	23 11	26 14	3 27	19 32	3 33	20 13	1 26	16 38	0 44	4 0	1 19	22 39	0 51	23 34	0 23	21 41	1 22	7 26	17 3	20 47	20 37	8 49	8 55	1 4	
M23	23 7	26 0	2 30	19 45	3 23	20 27	1 23	16 51	0 44	4 0	1 20	22 39	0 51	23 34	0 23	21 41	1 22	7 26	17 3	20 47	20 37	8 46	8 56	1 3	
T 24	23 2	24 27	1 26	20 0	3 11	20 40	1 21	17 3	0 43	3 59	1 20	22 39	0 51	23 34	0 23	21 41	1 22	7 25	17 2	20 47	20 38	8 43	8 56	1 3	
W25	22 57	21 45	0 19	20 15	2 59	20 52	1 19	17 15	0 42	3 59	1 20	22 39	0 51	23 34	0 23	21 41	1 22	7 25	17 2	20 47	20 38	8 40	8 57	1 3	
T 26	22 52	18 8	0n47	20 31	2 46	21 4	1 16	17 26	0 42	3 59	1 20	22 39	0 51	23 34	0 23	21 41	1 22	7 24	17 1	20 47	20 39	8 37	8 57	1 3	
F 27	22 46	13 49	1 51	20 47	2 34	21 16	1 14	17 38	0 41	3 58	1 21	22 39	0 51	23 34	0 23	21 41	1 22	7 23	17 0	20 47	20 40	8 34	8 58	1 3	
S 28	22 40	9 1	2 50	21 3	2 20	21 27	1 11	17 49	0 40	3 58	1 21	22 40	0 51	23 35	0 23	21 41	1 22	7 23	17 0	20 47	20 40	8 31	8 58	1 3	
S 29	22 34	3 55	3 41	21 19	2 7	21 37	1 9	18 1	0 40	3 58	1 21	22 40	0 51	23 35	0 23	21 41	1 22	7 22	16 59	20 47	20 41	8 28	8 58	1 3	
M30	22n27	1n19	4n23	21n35	1s53	21n47	1s 6	18n12	0s39	3s58	1s22	22s40	0n51	23s35	0s23	21s41	1n21	7n22	16n59	20s47	20s42	8s25	8n59	1n 3	

ASTRODIENST EPHEMERIS for the year 1488
geocentric

JULY 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 12 58	17 ⁵ 47'04	5 ⁹ 9	28 ^{II} 0	18 ^{II} 17	24 ⁸ 42	23 ¹¹ 11	29 ^R 44	8 ^R 56	18 ^R 46	21 [♂] 29	27 [♂] 13	27 [♂] 35	1 [♂] 18	20 [♀] 26	T 1
W 2	19 16 55	18 ⁰ 44'18	17 ⁰ 17	29 ⁰ 21	19 ⁰ 29	25 ⁰ 23	23 ⁰ 12	29 [♂] 39	8 [♂] 53	18 [♂] 44	21 ⁰ 29	27 ⁰ R14	27 ⁰ 32	1 ⁰ 25	20 ⁰ 26	W 2
T 3	19 20 51	19 ⁰ 41'33	29 ⁰ 40	0 ⁰ 47	20 ⁰ 41	26 ⁰ 5	23 ⁰ 12	29 ⁰ 35	8 ⁰ 51	18 ⁰ 43	21 ⁰ 29	27 ⁰ 13	27 ⁰ 29	1 ⁰ 31	20 ⁰ 27	T 3
F 4	19 24 48	20 ⁰ 38'49	12 ⁰ 22	2 ⁰ 17	21 ⁰ 53	26 ⁰ 46	23 ⁰ R12	29 ⁰ 31	8 ⁰ 48	18 ⁰ 41	21 ⁰ 30	27 ⁰ 13	27 ⁰ 25	1 ⁰ 38	20 ⁰ 28	F 4
S 5	19 28 45	21 ⁰ 36'05	25 ⁰ 27	3 ⁰ 51	23 ⁰ 5	27 ⁰ 28	23 ⁰ 12	29 ⁰ 28	8 ⁰ 46	18 ⁰ 40	21 ⁰ 30	27 ⁰ 12	27 ⁰ 22	1 ⁰ 45	20 ⁰ 28	S 5
S 6	19 32 41	22 ⁰ 33'23	8 ^{II} 57	5 ⁰ 29	24 ⁰ 17	28 ⁰ 9	23 ⁰ 11	29 ⁰ 24	8 ⁰ 44	18 ⁰ 39	21 ⁰ 31	27 ⁰ 12	27 ⁰ 19	1 ⁰ 51	20 ⁰ 29	S 6
M 7	19 36 38	23 ⁰ 30'41	22 ⁰ 52	7 ⁰ 11	25 ⁰ 29	28 ⁰ 50	23 ⁰ 11	29 ⁰ 20	8 ⁰ 41	18 ⁰ 38	21 ⁰ 31	27 ⁰ 11	27 ⁰ 16	1 ⁰ 58	20 ⁰ 29	M 7
T 8	19 40 34	24 ⁰ 28'00	7 ⁰ 51	8 ⁰ 56	26 ⁰ 41	29 ⁰ 31	23 ⁰ 10	29 ⁰ 16	8 ⁰ 39	18 ⁰ 36	21 ⁰ 32	27 ⁰ 11	27 ⁰ 13	2 ⁰ 5	20 ⁰ 30	T 8
W 9	19 44 31	25 ⁰ 25'20	21 ⁰ 50	10 ⁰ 45	27 ⁰ 53	0 ^{II} 12	23 ⁰ 9	29 ⁰ 12	8 ⁰ 37	18 ⁰ 35	21 ⁰ 32	27 ⁰ D11	27 ⁰ 9	2 ⁰ 11	20 ⁰ 30	W 9
T 10	19 48 27	26 ⁰ 22'41	6 ⁰ 41	12 ⁰ 37	29 ⁰ 5	0 ⁰ 53	23 ⁰ 8	29 ⁰ 9	8 ⁰ 35	18 ⁰ 34	21 ⁰ 33	27 ⁰ 11	27 ⁰ 6	2 ⁰ 18	20 ⁰ 31	T 10
F 11	19 52 24	27 ⁰ 20'02	21 ⁰ 39	14 ⁰ 31	0 ⁰ 517	1 ⁰ 34	23 ⁰ 6	29 ⁰ 5	8 ⁰ 32	18 ⁰ 33	21 ⁰ 33	27 ⁰ R11	27 ⁰ 3	2 ⁰ 25	20 ⁰ 31	F 11
S 12	19 56 21	28 ⁰ 17'24	6 ⁰ 34	16 ⁰ 28	1 ⁰ 30	2 ⁰ 15	23 ⁰ 5	29 ⁰ 1	8 ⁰ 30	18 ⁰ 32	21 ⁰ 34	27 ⁰ 11	27 ⁰ 0	2 ⁰ 31	20 ⁰ 31	S 12
S 13	20 0 17	29 ⁰ 14'47	21 ⁰ 19	18 ⁰ 27	2 ⁰ 42	2 ⁰ 56	23 ⁰ 3	28 ⁰ 58	8 ⁰ 28	18 ⁰ 31	21 ⁰ 35	27 ⁰ 11	26 ⁰ 57	2 ⁰ 38	20 ⁰ 31	S 13
M14	20 4 14	0 ⁰ 12'10	5 ⁰ 49	20 ⁰ 28	3 ⁰ 54	3 ⁰ 36	23 ⁰ 1	28 ⁰ 54	8 ⁰ 26	18 ⁰ 29	21 ⁰ 35	27 ⁰ 11	26 ⁰ 54	2 ⁰ 45	20 ⁰ 31	M14
T 15	20 8 10	1 ⁰ 9'33	19 ⁰ 59	22 ⁰ 31	5 ⁰ 7	4 ⁰ 17	22 ⁰ 59	28 ⁰ 51	8 ⁰ 23	18 ⁰ 28	21 ⁰ 36	27 ⁰ 10	26 ⁰ 50	2 ⁰ 51	20 ⁰ R31	T 15
W16	20 12 7	2 ⁰ 6'57	3 ⁰ 48	24 ⁰ 34	6 ⁰ 19	4 ⁰ 57	22 ⁰ 57	28 ⁰ 48	8 ⁰ 21	18 ⁰ 27	21 ⁰ 37	27 ⁰ D10	26 ⁰ 47	2 ⁰ 58	20 ⁰ 31	W16
T 17	20 16 3	3 ⁰ 4'22	17 ⁰ 16	26 ⁰ 39	7 ⁰ 32	5 ⁰ 37	22 ⁰ 54	28 ⁰ 44	8 ⁰ 19	18 ⁰ 26	21 ⁰ 38	27 ⁰ 11	26 ⁰ 44	3 ⁰ 5	20 ⁰ 31	T 17
F 18	20 20 0	4 ⁰ 1'48	0 ⁰ 24	28 ⁰ 44	8 ⁰ 44	6 ⁰ 17	22 ⁰ 52	28 ⁰ 41	8 ⁰ 17	18 ⁰ 25	21 ⁰ 39	27 ⁰ 11	26 ⁰ 41	3 ⁰ 11	20 ⁰ 31	F 18
S 19	20 23 56	4 ⁰ 59'14	13 ⁰ 15	0 ⁰ 49	9 ⁰ 57	6 ⁰ 58	22 ⁰ 49	28 ⁰ 38	8 ⁰ 15	18 ⁰ 24	21 ⁰ 39	27 ⁰ 12	26 ⁰ 38	3 ⁰ 18	20 ⁰ 31	S 19
S 20	20 27 53	5 ⁰ 56'42	25 ⁰ 50	2 ⁰ 53	11 ⁰ 9	7 ⁰ 38	22 ⁰ 46	28 ⁰ 35	8 ⁰ 13	18 ⁰ 23	21 ⁰ 40	27 ⁰ 12	26 ⁰ 35	3 ⁰ 25	20 ⁰ 31	S 20
M21	20 31 50	6 ⁰ 54'10	8 ⁰ 12	4 ⁰ 58	12 ⁰ 22	8 ⁰ 17	22 ⁰ 42	28 ⁰ 32	8 ⁰ 11	18 ⁰ 22	21 ⁰ 41	27 ⁰ 13	26 ⁰ 31	3 ⁰ 32	20 ⁰ 30	M21
T 22	20 35 46	7 ⁰ 51'39	20 ⁰ 23	7 ⁰ 2	13 ⁰ 35	8 ⁰ 57	22 ⁰ 39	28 ⁰ 29	8 ⁰ 9	18 ⁰ 21	21 ⁰ 42	27 ⁰ 14	26 ⁰ 28	3 ⁰ 38	20 ⁰ 30	T 22
W23	20 39 43	8 ⁰ 49'08	2 ⁰ 26	9 ⁰ 5	14 ⁰ 48	9 ⁰ 37	22 ⁰ 35	28 ⁰ 26	8 ⁰ 7	18 ⁰ 20	21 ⁰ 43	27 ⁰ R14	26 ⁰ 25	3 ⁰ 45	20 ⁰ 30	W23
T 24	20 43 39	9 ⁰ 46'39	14 ⁰ 23	11 ⁰ 7	16 ⁰ 0	10 ⁰ 17	22 ⁰ 31	28 ⁰ 24	8 ⁰ 5	18 ⁰ 20	21 ⁰ 44	27 ⁰ 13	26 ⁰ 22	3 ⁰ 52	20 ⁰ 29	T 24
F 25	20 47 36	10 ⁰ 44'12	26 ⁰ 14	13 ⁰ 9	17 ⁰ 13	10 ⁰ 56	22 ⁰ 27	28 ⁰ 21	8 ⁰ 3	18 ⁰ 19	21 ⁰ 45	27 ⁰ 12	26 ⁰ 19	3 ⁰ 58	20 ⁰ 29	F 25
S 26	20 51 32	11 ⁰ 41'45	8 ⁰ 4	15 ⁰ 9	18 ⁰ 26	11 ⁰ 36	22 ⁰ 23	28 ⁰ 18	8 ⁰ 1	18 ⁰ 18	21 ⁰ 47	27 ⁰ 10	26 ⁰ 15	4 ⁰ 5	20 ⁰ 28	S 26
S 27	20 55 29	12 ⁰ 39'20	19 ⁰ 54	17 ⁰ 8	19 ⁰ 39	12 ⁰ 15	22 ⁰ 19	28 ⁰ 16	7 ⁰ 59	18 ⁰ 17	21 ⁰ 48	27 ⁰ 8	26 ⁰ 12	4 ⁰ 12	20 ⁰ 28	S 27
M28	20 59 25	13 ⁰ 36'56	1 ⁰ 46	19 ⁰ 5	20 ⁰ 52	12 ⁰ 54	22 ⁰ 14	28 ⁰ 13	7 ⁰ 58	18 ⁰ 16	21 ⁰ 49	27 ⁰ 5	26 ⁰ 9	4 ⁰ 18	20 ⁰ 27	M28
T 29	21 3 22	14 ⁰ 34'33	13 ⁰ 45	21 ⁰ 2	22 ⁰ 5	13 ⁰ 33	22 ⁰ 10	28 ⁰ 11	7 ⁰ 56	18 ⁰ 16	21 ⁰ 50	27 ⁰ 3	26 ⁰ 6	4 ⁰ 25	20 ⁰ 26	T 29
W30	21 7 18	15 ⁰ 32'12	25 ⁰ 53	22 ⁰ 57	23 ⁰ 18	14 ⁰ 12	22 ⁰ 5	28 ⁰ 9	7 ⁰ 54	18 ⁰ 15	21 ⁰ 51	27 ⁰ 1	26 ⁰ 3	4 ⁰ 32	20 ⁰ 25	W30
T 31	21 11 15	16 ⁰ 29'53	8 ⁰ 14	24 ⁰ 50	24 ⁰ 31	14 ⁰ 11	22 ⁰ 8	28 ⁰ 7	7 ⁰ 52	18 ⁰ 14	21 ⁰ 53	27 ⁰ 0	26 ⁰ 0	4 ⁰ 38	20 ⁰ 25	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1488

geocentric

AUGUST 1488 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21 15 12	17°27'35"	20°52'	26°43'	25°45'	15°30'	21°R55	28°R 4	7°R51	18°R14	21°54	27°D 0	25°56	4°45	20°R24	F 1
S 2	21 19 8	18°25'19"	3°52'	28°33'	26°58'	16° 9	21°H49	28°H 2	7°H49	18°H13	21°55	27°H 1	25°53	4°52	20°V23	S 2
S 3	21 23 5	19°23'05"	17°16'	0°23'	28°11'	16°48'	21°44'	28° 0	7°47'	18°12'	21°57'	27° 2	25°50'	4°58'	20°22'	S 3
M 4	21 27 1	20°20'52"	1°56'	2°11'	29°24'	17°26'	21°38'	27°59'	7°46'	18°12'	21°58'	27° 3	25°47'	5° 5	20°21'	M 4
T 5	21 30 58	21°18'41"	15°23'	3°57'	0°13'	18° 4	21°32'	27°57'	7°44'	18°11'	21°59'	27° 5	25°44'	5°12'	20°20'	T 5
W 6	21 34 54	22°16'32"	0°42'	5°42'	1°51'	18°43'	21°27'	27°55'	7°43'	18°11'	22° 1	27°R 5	25°40'	5°18'	20°19'	W 6
T 7	21 38 51	23°14'24"	15° 4	7°26'	3° 5	19°21'	21°20'	27°54'	7°41'	18°10'	22° 2	27° 4	25°37'	5°25'	20°17'	T 7
F 8	21 42 48	24°12'18"	0°15'	9° 9	4°18'	19°59'	21°14'	27°52'	7°40'	18°10'	22° 4	27° 2	25°34'	5°32'	20°16'	F 8
S 9	21 46 44	25°10'13"	15°27'	10°50'	5°32'	20°37'	21° 8	27°51'	7°38'	18°10'	22° 5	26°59'	25°31'	5°38'	20°15'	S 9
S 10	21 50 41	26° 8'10"	0°31'	12°30'	6°45'	21°15'	21° 1	27°49'	7°37'	18° 9	22° 7	26°55'	25°28'	5°45'	20°13'	S 10
M 11	21 54 37	27° 6'08"	15°17'	14° 8	7°59'	21°52'	20°55'	27°48'	7°36'	18° 9	22° 8	26°51'	25°25'	5°52'	20°12'	M 11
T 12	21 58 34	28° 4'07"	29°40'	15°45'	9°13'	22°30'	20°48'	27°47'	7°35'	18° 9	22°10'	26°47'	25°21'	5°58'	20°11'	T 12
W 13	22 2 30	29° 2'08"	13°36'	17°21'	10°26'	23° 7	20°41'	27°46'	7°33'	18° 8	22°12'	26°45'	25°18'	6° 5	20° 9	W 13
T 14	22 6 27	0°10'10"	27° 6	18°56'	11°40'	23°45'	20°34'	27°45'	7°32'	18° 8	22°13'	26°D44	25°15'	6°12'	20° 8	T 14
F 15	22 10 23	0°58'14"	10°10'	20°29'	12°54'	24°22'	20°27'	27°44'	7°31'	18° 8	22°15'	26°44'	25°12'	6°18'	20° 6	F 15
S 16	22 14 20	1°56'19"	22°52'	22° 1	14° 8	24°59'	20°20'	27°43'	7°30'	18° 8	22°17'	26°45'	25° 9	6°25'	20° 4	S 16
S 17	22 18 17	2°54'25"	5°31'	23°32'	15°21'	25°36'	20°13'	27°43'	7°29'	18° 8	22°18'	26°47'	25° 6	6°32'	20° 3	S 17
M 18	22 22 13	3°52'33"	17°28'	25° 1	16°35'	26°13'	20° 6	27°42'	7°28'	18° 7	22°20'	26°48'	25° 2	6°38'	20° 1	M 18
T 19	22 26 10	4°50'42"	29°28'	26°29'	17°49'	26°50'	19°58'	27°42'	7°27'	18° 7	22°22'	26°R49	24°59'	6°45'	19°59'	T 19
W 20	22 30 6	5°48'53"	11°23'	27°56'	19° 3	27°26'	19°51'	27°41'	7°26'	18° 7	22°24'	26°47'	24°56'	6°52'	19°57'	W 20
T 21	22 34 3	6°47'06"	23°14'	29°22'	20°17'	28° 3	19°43'	27°41'	7°25'	18°D 7	22°25'	26°44'	24°53'	6°59'	19°55'	T 21
F 22	22 37 59	7°45'20"	5°H 3	0°46'	21°31'	28°39'	19°36'	27°41'	7°24'	18° 7	22°27'	26°39'	24°50'	7° 5	19°53'	F 22
S 23	22 41 56	8°43'36"	16°53'	2° 9	22°45'	29°15'	19°28'	27°D41	7°24'	18° 7	22°29'	26°33'	24°46'	7°12'	19°52'	S 23
S 24	22 45 52	9°41'54"	28°47'	3°30'	23°59'	29°51'	19°20'	27°41'	7°23'	18° 7	22°31'	26°25'	24°43'	7°19'	19°50'	S 24
M 25	22 49 49	10°40'14"	10°Y44	4°50'	25°14'	0°27'	19°12'	27°41'	7°22'	18° 8	22°33'	26°17'	24°40'	7°25'	19°47'	M 25
T 26	22 53 45	11°38'36"	22°48'	6° 9	26°28'	1° 3	19° 4	27°41'	7°22'	18° 8	22°35'	26° 9	24°37'	7°32'	19°45'	T 26
W 27	22 57 42	12°37'00"	5°H 0	7°26'	27°42'	1°39'	18°57'	27°41'	7°21'	18° 8	22°37'	26° 2	24°34'	7°39'	19°43'	W 27
T 28	23 1 39	13°35'26"	17°24'	8°41'	28°56'	2°14'	18°49'	27°42'	7°20'	18° 8	22°39'	25°57'	24°31'	7°45'	19°41'	T 28
F 29	23 5 35	14°33'54"	0°II 1	9°55'	0°11'	2°49'	18°41'	27°42'	7°20'	18° 8	22°41'	25°53'	24°27'	7°52'	19°39'	F 29
S 30	23 9 32	15°32'24"	12°57'	11° 7	1°25'	3°25'	18°33'	27°43'	7°20'	18° 9	22°43'	25°D52	24°24'	7°59'	19°37'	S 30
S 31	23 13 28	16°30'57"	26°II13	12°18'	2°39'	4°20'	18°H25	27°H44	7°H19	18°H 9	22°H45	25°H53	24°H21	8°H 5	19°V34	S 31

Day	☉	☽		♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	15n39	22n39	4n49	14n 6	1n33	21n23	0n20	22n30	0s13	4s36	1s31	22s43	0n47	23s39	0s23	21s39	1n20	6n56	16n41	20s49	21s 1	6s47	8n58	1n 3	
S 2	15 21	25 7	4 13	13 24	1 29	21 12	0 23	22 35	0 12	4 39	1 31	22 43	0 46	23 39	0 23	21 39	1 20	6 55	16 40	20 49	21 2	6 44	8 57	1 3	
S 3	15 3	26 15	3 22	12 42	1 25	21 0	0 25	22 40	0 11	4 41	1 31	22 43	0 46	23 39	0 23	21 39	1 20	6 54	16 40	20 49	21 2	6 41	8 57	1 3	
M 4	14 45	25 48	2 18	11 59	1 20	20 47	0 28	22 44	0 10	4 44	1 32	22 43	0 46	23 39	0 23	21 39	1 20	6 53	16 39	20 48	21 3	6 38	8 56	1 3	
T 5	14 26	23 41	1 4	11 15	1 15	20 34	0 30	22 49	0 9	4 46	1 32	22 44	0 46	23 40	0 23	21 39	1 20	6 52	16 39	20 48	21 4	6 35	8 56	1 3	
W 6	14 8	19 56	0s16	10 31	1 10	20 20	0 32	22 53	0 9	4 49	1 32	22 44	0 46	23 40	0 23	21 39	1 20	6 51	16 38	20 48	21 4	6 32	8 55	1 3	
T 7	13 49	14 49	1 37	9 48	1 4	20 5	0 35	22 57	0 8	4 51	1 32	22 44	0 46	23 40	0 23	21 39	1 20	6 50	16 38	20 48	21 5	6 29	8 55	1 3	
F 8	13 29	8 44	2 52	9 3	0 58	19 50	0 37	23 1	0 7	4 54	1 32	22 44	0 45	23 40	0 23	21 39	1 20	6 49	16 37	20 49	21 5	6 26	8 54	1 3	
S 9	13 10	2 8	3 55	8 19	0 52	19 35	0 39	23 5	0 6	4 57	1 33	22 44	0 45	23 40	0 23	21 39	1 20	6 48	16 37	20 49	21 6	6 23	8 54	1 3	
S 10	12 50	4s29	4 41	7 35	0 45	19 18	0 42	23 8	0 5	4 59	1 33	22 44	0 45	23 40	0 23	21 39	1 20	6 47	16 36	20 50	21 6	6 20	8 53	1 3	
M11	12 31	10 45	5 7	6 51	0 38	19 2	0 44	23 12	0 4	5 2	1 33	22 44	0 45	23 40	0 23	21 39	1 20	6 46	16 36	20 51	21 7	6 17	8 53	1 2	
T 12	12 11	16 15	5 12	6 7	0 31	18 44	0 46	23 15	0 3	5 5	1 33	22 44	0 45	23 40	0 23	21 39	1 20	6 45	16 35	20 52	21 8	6 14	8 52	1 2	
W13	11 51	20 43	5 0	5 23	0 24	18 27	0 48	23 18	0 2	5 8	1 33	22 45	0 45	23 40	0 23	21 39	1 20	6 44	16 35	20 52	21 8	6 11	8 52	1 2	
T 14	11 30	23 57	4 30	4 39	0 16	18 8	0 50	23 21	0 1	5 11	1 34	22 45	0 45	23 40	0 23	21 39	1 20	6 43	16 34	20 52	21 9	6 7	8 51	1 2	
F 15	11 10	25 47	3 48	3 55	0 9	17 49	0 52	23 23	0n 0	5 14	1 34	22 45	0 44	23 40	0 23	21 39	1 20	6 42	16 34	20 52	21 9	6 4	8 50	1 2	
S 16	10 49	26 13	2 55	3 12	0 1	17 30	0 54	23 26	0 1	5 17	1 34	22 45	0 44	23 40	0 23	21 39	1 19	6 41	16 33	20 52	21 10	6 1	8 50	1 2	
S 17	10 28	25 19	1 55	2 28	0s 7	17 10	0 56	23 28	0 2	5 20	1 34	22 45	0 44	23 40	0 23	21 39	1 19	6 40	16 33	20 52	21 10	5 58	8 49	1 2	
M18	10 7	23 12	0 51	1 46	0 15	16 50	0 58	23 31	0 3	5 23	1 34	22 45	0 44	23 40	0 23	21 39	1 19	6 39	16 33	20 51	21 11	5 55	8 48	1 2	
T 19	9 46	20 5	0n15	1 3	0 23	16 29	1 0	23 33	0 4	5 26	1 34	22 45	0 44	23 40	0 23	21 39	1 19	6 38	16 32	20 51	21 12	5 52	8 48	1 2	
W20	9 24	16 9	1 18	0 21	0 31	16 8	1 2	23 34	0 5	5 29	1 35	22 45	0 44	23 41	0 23	21 39	1 19	6 37	16 32	20 51	21 12	5 49	8 47	1 2	
T 21	9 3	11 38	2 19	0s21	0 39	15 46	1 3	23 36	0 7	5 32	1 35	22 46	0 44	23 41	0 23	21 40	1 19	6 36	16 31	20 52	21 13	5 46	8 46	1 2	
F 22	8 41	6 42	3 12	1 2	0 47	15 24	1 5	23 38	0 8	5 35	1 35	22 46	0 43	23 41	0 23	21 40	1 19	6 35	16 31	20 53	21 13	5 43	8 45	1 2	
S 23	8 19	1 32	3 58	1 42	0 56	15 1	1 7	23 39	0 9	5 38	1 35	22 46	0 43	23 41	0 23	21 40	1 19	6 34	16 31	20 54	21 14	5 40	8 45	1 2	
S 24	7 57	3n41	4 33	2 23	1 4	14 38	1 8	23 40	0 10	5 41	1 35	22 46	0 43	23 41	0 23	21 40	1 19	6 33	16 30	20 56	21 15	5 37	8 44	1 2	
M25	7 35	8 48	4 57	3 2	1 12	14 14	1 10	23 41	0 11	5 44	1 35	22 46	0 43	23 41	0 23	21 40	1 19	6 32	16 30	20 57	21 15	5 34	8 43	1 2	
T 26	7 13	13 38	5 7	3 41	1 21	13 51	1 11	23 42	0 12	5 48	1 35	22 46	0 43	23 41	0 23	21 40	1 19	6 31	16 29	20 59	21 16	5 31	8 42	1 2	
W27	6 51	18 0	5 4	4 19	1 29	13 26	1 12	23 43	0 13	5 51	1 35	22 47	0 43	23 41	0 23	21 40	1 19	6 30	16 29	21 0	21 16	5 28	8 41	1 2	
T 28	6 28	21 39	4 47	4 57	1 37	13 2	1 14	23 43	0 14	5 54	1 35	22 47	0 43	23 41	0 23	21 40	1 19	6 29	16 29	21 1	21 17	5 24	8 41	1 2	
F 29	6 6	24 22	4 15	5 34	1 46	12 37	1 15	23 44	0 15	5 57	1 35	22 47	0 42	23 41	0 23	21 40	1 19	6 28	16 28	21 2	21 17	5 21	8 40	1 2	
S 30	5 43	25 53	3 30	6 9	1 54	12 11	1 16	23 44	0 16	6 0	1 35	22 47	0 42	23 41	0 23	21 40	1 19	6 27	16 28	21 2	21 18	5 18	8 39	1 2	
S 31	5n20	26n 0	2n33	6s45	2s 2	11n46	1n17	23n44	0n18	6s 4	1s36	22s47	0n42	23s41	0s23	21s40	1n19	6n26	16n28	21s 2	21s18	5s15	8n38	1n 2	

ASTRODIENST EPHEMERIS for the year 1488
geocentric

SEPTEMBER 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	23 17 25	17 ^h 29'32	9 ^h 53	13 ^h 26	3 ^h 54	4 ^h 35	18°R17	27 ^h 44	7°R19	18 ^h 9	22 ^h 47	25 ^h 54	24 ^h 18	8 ^h 12	19°R32	M 1
T 2	23 21 21	18°28'09	23°59	14°33	5° 8	5° 9	18 ^h 9	27°45	7 ^h 19	18°10	22°49	25°R54	24°15	8°19	19°Y30	T 2
W 3	23 25 18	19°26'49	8 ^h 29	15°37	6°23	5°44	18° 1	27°46	7°18	18°10	22°51	25°54	24°12	8°25	19°27	W 3
T 4	23 29 14	20°25'30	23°22	16°39	7°37	6°18	17°53	27°47	7°18	18°10	22°53	25°51	24° 8	8°32	19°25	T 4
F 5	23 33 11	21°24'14	8 ^h 31	17°38	8°52	6°53	17°45	27°49	7°18	18°11	22°55	25°46	24° 5	8°39	19°23	F 5
S 6	23 37 8	22°22'59	23°46	18°35	10° 6	7°27	17°37	27°50	7°18	18°11	22°57	25°39	24° 2	8°45	19°20	S 6
S 7	23 41 4	23°21'47	8 ^h 57	19°29	11°21	8° 1	17°29	27°51	7°D18	18°12	23° 0	25°30	23°59	8°52	19°18	S 7
M 8	23 45 1	24°20'36	23°53	20°20	12°35	8°34	17°21	27°53	7°18	18°13	23° 2	25°21	23°56	8°59	19°15	M 8
T 9	23 48 57	25°19'28	8 ^h 27	21° 8	13°50	9° 8	17°13	27°54	7°18	18°13	23° 4	25°13	23°52	9° 5	19°13	T 9
W10	23 52 54	26°18'21	22°33	21°52	15° 5	9°41	17° 5	27°56	7°18	18°14	23° 6	25° 6	23°49	9°12	19°10	W10
T 11	23 56 50	27°17'16	6 ^h 8	22°32	16°19	10°15	16°57	27°58	7°18	18°14	23° 8	25° 2	23°46	9°19	19° 7	T 11
F 12	0 0 47	28°16'13	19°15	23° 8	17°34	10°48	16°50	28° 0	7°19	18°15	23°11	25° 0	23°43	9°26	19° 5	F 12
S 13	0 4 43	29°15'12	1 ^h 58	23°39	18°49	11°21	16°42	28° 2	7°19	18°16	23°13	25°D 0	23°40	9°32	19° 2	S 13
S 14	0 8 40	0 ^h 14'12	14°19	24° 6	20° 4	11°53	16°34	28° 4	7°19	18°17	23°15	25° 0	23°37	9°39	18°59	S 14
M15	0 12 37	1°13'14	26°26	24°27	21°19	12°26	16°27	28° 6	7°20	18°17	23°17	25°R 0	23°33	9°46	18°57	M15
T 16	0 16 33	2°12'18	8 ^h 22	24°42	22°33	12°58	16°20	28° 8	7°20	18°18	23°20	25° 0	23°30	9°52	18°54	T 16
W17	0 20 30	3°11'24	20°12	24°51	23°48	13°30	16°12	28°10	7°20	18°19	23°22	24°57	23°27	9°59	18°51	W17
T 18	0 24 26	4°10'32	2 ^h 1	24°R53	25° 3	14° 2	16° 5	28°13	7°21	18°20	23°24	24°51	23°24	10° 6	18°49	T 18
F 19	0 28 23	5° 9'41	13°51	24°48	26°18	14°34	15°58	28°15	7°22	18°21	23°27	24°42	23°21	10°12	18°46	F 19
S 20	0 32 19	6° 8'52	25°45	24°36	27°33	15° 5	15°51	28°18	7°22	18°22	23°29	24°32	23°17	10°19	18°43	S 20
S 21	0 36 16	7° 8'06	7 ^h 44	24°15	28°48	15°37	15°44	28°21	7°23	18°23	23°31	24°19	23°14	10°26	18°40	S 21
M22	0 40 12	8° 7'21	19°51	23°47	0 ^h 3	16° 8	15°37	28°23	7°24	18°24	23°34	24° 5	23°11	10°32	18°37	M22
T 23	0 44 9	9° 6'39	2 ^h 6	23°10	1°18	16°39	15°30	28°26	7°24	18°25	23°36	23°52	23° 8	10°39	18°35	T 23
W24	0 48 6	10° 5'59	14°29	22°26	2°33	17° 9	15°24	28°29	7°25	18°26	23°38	23°41	23° 5	10°46	18°32	W24
T 25	0 52 2	11° 5'21	27° 2	21°34	3°48	17°40	15°17	28°32	7°26	18°27	23°41	23°31	23° 2	10°52	18°29	T 25
F 26	0 55 59	12° 4'46	9 ^h 47	20°35	5° 3	18°10	15°11	28°36	7°27	18°28	23°43	23°25	22°58	10°59	18°26	F 26
S 27	0 59 55	13° 4'12	22°45	19°29	6°18	18°40	15° 5	28°39	7°28	18°29	23°46	23°21	22°55	11° 6	18°23	S 27
S 28	1 3 52	14° 3'41	6 ^h 0	18°20	7°33	19°10	14°59	28°42	7°29	18°31	23°48	23°20	22°52	11°13	18°20	S 28
M29	1 7 48	15° 3'13	19°33	17° 7	8°48	19°39	14°53	28°45	7°30	18°32	23°50	23°20	22°49	11°19	18°17	M29
T 30	1 11 45	16 ^h 2'47	3 ^h 26	15 ^h 54	10 ^h 3	20 ^h 9	14 ^h 47	28 ^h 49	7 ^h 31	18 ^h 33	23 ^h 53	23 ^h 20	22 ^h 46	11 ^h 26	18 ^h 15	T 30

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	4n57	24n33	1n25	7s19	2s10	11n19	1n18	23n44	0n19	6s 7	1s36	22s47	0n42	23s41	0s23	21s40	1n19	6n25	16n27	21s 2	21s19	5s12	8n37	1n 2	
T 2	4 34	21 33	0 10	7 52	2 18	10 53	1 19	23 44	0 20	6 10	1 36	22 47	0 42	23 41	0 23	21 40	1 19	6 24	16 27	21 2	21 20	5 9	8 36	1 2	
W 3	4 11	17 7	1s 7	8 24	2 26	10 26	1 20	23 44	0 21	6 13	1 36	22 48	0 42	23 41	0 23	21 40	1 19	6 22	16 27	21 2	21 20	5 6	8 35	1 2	
T 4	3 48	11 32	2 22	8 55	2 33	9 59	1 21	23 44	0 22	6 16	1 36	22 48	0 42	23 41	0 23	21 41	1 18	6 21	16 26	21 2	21 21	5 3	8 34	1 2	
F 5	3 25	5 11	3 28	9 25	2 40	9 32	1 22	23 43	0 23	6 19	1 36	22 48	0 41	23 41	0 23	21 41	1 18	6 20	16 26	21 3	21 21	5 0	8 33	1 1	
S 6	3 2	1s29	4 19	9 53	2 47	9 5	1 23	23 42	0 25	6 23	1 36	22 48	0 41	23 41	0 23	21 41	1 18	6 19	16 26	21 4	21 22	4 57	8 32	1 1	
S 7	2 39	8 2	4 52	10 20	2 54	8 37	1 23	23 42	0 26	6 26	1 36	22 48	0 41	23 41	0 23	21 41	1 18	6 18	16 25	21 6	21 22	4 54	8 31	1 1	
M 8	2 15	14 0	5 5	10 45	3 1	8 9	1 24	23 41	0 27	6 29	1 36	22 48	0 41	23 41	0 22	21 41	1 18	6 17	16 25	21 8	21 23	4 51	8 30	1 1	
T 9	1 52	19 2	4 57	11 9	3 7	7 41	1 25	23 40	0 28	6 32	1 36	22 49	0 41	23 41	0 22	21 41	1 18	6 16	16 25	21 9	21 23	4 48	8 29	1 1	
W10	1 28	22 49	4 31	11 31	3 13	7 12	1 25	23 39	0 30	6 35	1 36	22 49	0 41	23 41	0 22	21 41	1 18	6 15	16 25	21 10	21 24	4 45	8 28	1 1	
T 11	1 5	25 10	3 50	11 51	3 18	6 43	1 26	23 37	0 31	6 38	1 36	22 49	0 40	23 41	0 22	21 41	1 18	6 14	16 24	21 11	21 25	4 41	8 27	1 1	
F 12	0 41	26 2	2 59	12 9	3 23	6 15	1 26	23 36	0 32	6 41	1 36	22 49	0 40	23 41	0 22	21 41	1 18	6 13	16 24	21 12	21 25	4 38	8 26	1 1	
S 13	0 18	25 29	2 0	12 24	3 27	5 45	1 26	23 34	0 33	6 44	1 36	22 49	0 40	23 41	0 22	21 41	1 18	6 12	16 24	21 12	21 26	4 35	8 25	1 1	
S 14	0s 6	23 40	0 57	12 37	3 30	5 16	1 26	23 33	0 35	6 47	1 36	22 50	0 40	23 41	0 22	21 42	1 18	6 11	16 24	21 11	21 26	4 32	8 24	1 1	
M15	0 29	20 48	0n 8	12 48	3 33	4 47	1 27	23 31	0 36	6 50	1 35	22 50	0 40	23 41	0 22	21 42	1 18	6 10	16 23	21 11	21 27	4 29	8 23	1 1	
T 16	0 53	17 5	1 11	12 55	3 35	4 17	1 27	23 29	0 37	6 53	1 35	22 50	0 40	23 41	0 22	21 42	1 18	6 9	16 23	21 12	21 27	4 26	8 22	1 1	
W17	1 16	12 44	2 10	12 59	3 35	3 48	1 27	23 28	0 39	6 55	1 35	22 50	0 40	23 41	0 22	21 42	1 18	6 8	16 23	21 12	21 28	4 23	8 21	1 1	
T 18	1 40	7 56	3 3	13 0	3 35	3 18	1 27	23 26	0 40	6 58	1 35	22 50	0 39	23 40	0 22	21 42	1 18	6 7	16 23	21 13	21 28	4 20	8 19	1 1	
F 19	2 3	2 51	3 49	12 57	3 34	2 48	1 27	23 23	0 41	7 1	1 35	22 50	0 39	23 40	0 22	21 42	1 18	6 6	16 23	21 15	21 29	4 17	8 18	1 1	
S 20	2 27	2n21	4 24	12 49	3 31	2 18	1 26	23 21	0 43	7 3	1 35	22 51	0 39	23 40	0 22	21 42	1 18	6 5	16 22	21 17	21 29	4 14	8 17	1 1	
S 21	2 50	7 29	4 48	12 38	3 27	1 48	1 26	23 19	0 44	7 6	1 35	22 51	0 39	23 40	0 22	21 42	1 18	6 4	16 22	21 19	21 30	4 11	8 16	1 0	
M22	3 14	12 24	5 0	12 22	3 21	1 18	1 26	23 17	0 45	7 9	1 35	22 51	0 39	23 40	0 22	21 43	1 18	6 3	16 22	21 21	21 31	4 8	8 15	1 0	
T 23	3 37	16 53	4 58	12 1	3 14	0 47	1 25	23 14	0 47	7 11	1 35	22 51	0 39	23 40	0 22	21 43	1 18	6 2	16 22	21 23	21 31	4 5	8 14	1 0	
W24	4 1	20 42	4 41	11 36	3 4	0 17	1 25	23 12	0 48	7 14	1 35	22 51	0 39	23 40	0 22	21 43	1 17	6 1	16 22	21 25	21 32	4 2	8 13	1 0	
T 25	4 24	23 38	4 11	11 6	2 53	0s13	1 24	23 9	0 49	7 16	1 35	22 51	0 39	23 40	0 22	21 43	1 17	6 0	16 22	21 27	21 32	3 58	8 11	1 0	
F 26	4 47	25 25	3 29	10 32	2 40	0 44	1 24	23 7	0 51	7 18	1 34	22 52	0 38	23 40	0 22	21 43	1 17	5 59	16 22	21 28	21 33	3 55	8 10	1 0	
S 27	5 10	25 52	2 34	9 53	2 25	1 14	1 23	23 4	0 52	7 21	1 34	22 52	0 38	23 40	0 22	21 43	1 17	5 58	16 21	21 29	21 33	3 52	8 9	1 0	
S 28	5 34	24 53	1 30	9 11	2 9	1 44	1 23	23 1	0 54	7 23	1 34	22 52	0 38	23 40	0 22	21 43	1 17	5 57	16 21	21 29	21 34	3 49	8 8	1 0	
M29	5 57	22 25	0 20	8 27	1 5	2 15	1 22	22 58	0 55	7 25	1 34	22 52	0 38	23 40	0 22	21 44	1 17	5 57	16 21	21 29	21 34	3 46	8 7	1 0	
T 30	6s20	18n35	0s53	7s40	1s31	2s45	1n21	22n56	0n57	7s27	1s34	22s52	0n38	23s40	0s22	21s44	1n17	5n56	16n21	21s29	21s35	3s43	8n 6	1n 0	

ASTRODIENST EPHEMERIS for the year 1488
geocentric

OCTOBER 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	1 15 41	17 ^h 2' 23"	17 ^h 0' 41"	14 ^h R41	11 ^h 18	20 ^h 38	14 ^h R41	28 ^h 52	7 ^h 33	18 ^h 34	23 ^h 55	23 ^h R18	22 ^h 43	11 ^h 33	18 ^h R12	W 1
T 2	1 19 38	18 ^h 2' 01"	2 ^h 16	13 ^h 32	12 ^h 33	21 ^h 6	14 ^h 36	28 ^h 56	7 ^h 34	18 ^h 36	23 ^h 58	23 ^h 14	22 ^h 39	11 ^h 39	18 ^h 9	T 2
F 3	1 23 35	19 ^h 1' 42"	17 ^h 8	12 ^h 28	13 ^h 49	21 ^h 35	14 ^h 31	29 ^h 0	7 ^h 35	18 ^h 37	24 ^h 0	23 ^h 8	22 ^h 36	11 ^h 46	18 ^h 6	F 3
S 4	1 27 31	20 ^h 1' 24"	2 ^h 9	11 ^h 31	15 ^h 4	22 ^h 3	14 ^h 25	29 ^h 4	7 ^h 36	18 ^h 38	24 ^h 2	22 ^h 58	22 ^h 33	11 ^h 53	18 ^h 3	S 4
S 5	1 31 28	21 ^h 1' 09"	17 ^h 10	10 ^h 44	16 ^h 19	22 ^h 31	14 ^h 20	29 ^h 8	7 ^h 38	18 ^h 40	24 ^h 5	22 ^h 47	22 ^h 30	11 ^h 59	18 ^h 0	S 5
M 6	1 35 24	22 ^h 0' 56"	2 ^h 16	10 ^h 6	17 ^h 34	22 ^h 59	14 ^h 16	29 ^h 12	7 ^h 39	18 ^h 41	24 ^h 7	22 ^h 35	22 ^h 27	12 ^h 6	17 ^h 57	M 6
T 7	1 39 21	23 ^h 0' 45"	16 ^h 35	9 ^h 39	18 ^h 49	23 ^h 26	14 ^h 11	29 ^h 16	7 ^h 41	18 ^h 43	24 ^h 10	22 ^h 24	22 ^h 23	12 ^h 13	17 ^h 54	T 7
W 8	1 43 17	24 ^h 0' 36"	0 ^h 43	9 ^h 23	20 ^h 5	23 ^h 53	14 ^h 7	29 ^h 20	7 ^h 42	18 ^h 44	24 ^h 12	22 ^h 15	22 ^h 20	12 ^h 19	17 ^h 51	W 8
T 9	1 47 14	25 ^h 0' 29"	14 ^h 24	9 ^h D19	21 ^h 20	24 ^h 20	14 ^h 2	29 ^h 24	7 ^h 44	18 ^h 46	24 ^h 15	22 ^h 8	22 ^h 17	12 ^h 26	17 ^h 49	T 9
F 10	1 51 10	26 ^h 0' 23"	27 ^h 36	9 ^h 26	22 ^h 35	24 ^h 47	13 ^h 58	29 ^h 28	7 ^h 45	18 ^h 47	24 ^h 17	22 ^h 4	22 ^h 14	12 ^h 33	17 ^h 46	F 10
S 11	1 55 7	27 ^h 0' 19"	10 ^h 21	9 ^h 43	23 ^h 50	25 ^h 13	13 ^h 54	29 ^h 33	7 ^h 47	18 ^h 49	24 ^h 19	22 ^h 2	22 ^h 11	12 ^h 39	17 ^h 43	S 11
S 12	1 59 3	28 ^h 0' 17"	22 ^h 45	10 ^h 11	25 ^h 6	25 ^h 39	13 ^h 51	29 ^h 37	7 ^h 49	18 ^h 50	24 ^h 22	22 ^h 2	22 ^h 8	12 ^h 46	17 ^h 40	S 12
M13	2 3 0	29 ^h 0' 16"	4 ^h 53	10 ^h 48	26 ^h 21	26 ^h 4	13 ^h 47	29 ^h 42	7 ^h 51	18 ^h 52	24 ^h 24	22 ^h 2	22 ^h 4	12 ^h 53	17 ^h 37	M13
T 14	2 6 57	0 ^h 17	16 ^h 49	11 ^h 33	27 ^h 36	26 ^h 29	13 ^h 44	29 ^h 46	7 ^h 52	18 ^h 54	24 ^h 27	22 ^h 1	22 ^h 1	13 ^h 0	17 ^h 34	T 14
W15	2 10 53	1 ^h 0' 20"	28 ^h 39	12 ^h 26	28 ^h 51	26 ^h 54	13 ^h 41	29 ^h 51	7 ^h 54	18 ^h 55	24 ^h 29	21 ^h 58	21 ^h 58	13 ^h 6	17 ^h 32	W15
T 16	2 14 50	2 ^h 0' 24"	10 ^h 28	13 ^h 26	0 ^h 7	27 ^h 19	13 ^h 38	29 ^h 56	7 ^h 56	18 ^h 57	24 ^h 31	21 ^h 52	21 ^h 55	13 ^h 13	17 ^h 29	T 16
F 17	2 18 46	3 ^h 0' 30"	22 ^h 20	14 ^h 31	1 ^h 22	27 ^h 43	13 ^h 35	0 ^h 0	7 ^h 58	18 ^h 59	24 ^h 34	21 ^h 44	21 ^h 52	13 ^h 20	17 ^h 26	F 17
S 18	2 22 43	4 ^h 0' 37"	4 ^h 19	15 ^h 42	2 ^h 37	28 ^h 7	13 ^h 32	0 ^h 5	8 ^h 0	19 ^h 0	24 ^h 36	21 ^h 33	21 ^h 49	13 ^h 26	17 ^h 23	S 18
S 19	2 26 39	5 ^h 0' 46"	16 ^h 27	16 ^h 57	3 ^h 53	28 ^h 31	13 ^h 30	0 ^h 10	8 ^h 2	19 ^h 2	24 ^h 39	21 ^h 20	21 ^h 45	13 ^h 33	17 ^h 21	S 19
M20	2 30 36	6 ^h 0' 57"	28 ^h 45	18 ^h 15	5 ^h 8	28 ^h 54	13 ^h 28	0 ^h 15	8 ^h 4	19 ^h 4	24 ^h 41	21 ^h 7	21 ^h 42	13 ^h 40	17 ^h 18	M20
T 21	2 34 32	7 ^h 1' 10"	11 ^h 14	19 ^h 37	6 ^h 23	29 ^h 17	13 ^h 26	0 ^h 20	8 ^h 6	19 ^h 6	24 ^h 43	20 ^h 53	21 ^h 39	13 ^h 46	17 ^h 15	T 21
W22	2 38 29	8 ^h 1' 25"	23 ^h 54	21 ^h 2	7 ^h 39	29 ^h 39	13 ^h 24	0 ^h 25	8 ^h 8	19 ^h 7	24 ^h 46	20 ^h 41	21 ^h 36	13 ^h 53	17 ^h 13	W22
T 23	2 42 26	9 ^h 1' 41"	6 ^h 45	22 ^h 29	8 ^h 54	0 ^h 1	13 ^h 23	0 ^h 30	8 ^h 11	19 ^h 9	24 ^h 48	20 ^h 32	21 ^h 33	14 ^h 0	17 ^h 10	T 23
F 24	2 46 22	10 ^h 2' 00"	19 ^h 47	23 ^h 57	10 ^h 9	0 ^h 23	13 ^h 21	0 ^h 36	8 ^h 13	19 ^h 11	24 ^h 51	20 ^h 25	21 ^h 29	14 ^h 6	17 ^h 7	F 24
S 25	2 50 19	11 ^h 2' 20"	2 ^h 59	25 ^h 28	11 ^h 25	0 ^h 44	13 ^h 20	0 ^h 41	8 ^h 15	19 ^h 13	24 ^h 53	20 ^h 22	21 ^h 26	14 ^h 13	17 ^h 5	S 25
S 26	2 54 15	12 ^h 2' 42"	16 ^h 24	26 ^h 59	12 ^h 40	1 ^h 5	13 ^h 19	0 ^h 46	8 ^h 18	19 ^h 15	24 ^h 55	20 ^h D21	21 ^h 23	14 ^h 20	17 ^h 2	S 26
M27	2 58 12	13 ^h 3' 06"	0 ^h 0	28 ^h 31	13 ^h 55	1 ^h 26	13 ^h 18	0 ^h 52	8 ^h 20	19 ^h 17	24 ^h 58	20 ^h 21	21 ^h 20	14 ^h 27	17 ^h 0	M27
T 28	3 2 8	14 ^h 3' 32"	13 ^h 50	0 ^h 5	15 ^h 11	1 ^h 46	13 ^h 18	0 ^h 57	8 ^h 22	19 ^h 19	25 ^h 0	20 ^h R21	21 ^h 17	14 ^h 33	16 ^h 57	T 28
W29	3 6 5	15 ^h 4' 00"	27 ^h 54	1 ^h 39	16 ^h 26	2 ^h 5	13 ^h 18	1 ^h 3	8 ^h 25	19 ^h 20	25 ^h 2	20 ^h 20	21 ^h 14	14 ^h 40	16 ^h 55	W29
T 30	3 10 1	16 ^h 4' 30"	12 ^h 11	3 ^h 13	17 ^h 42	2 ^h 24	13 ^h D17	1 ^h 9	8 ^h 27	19 ^h 22	25 ^h 5	20 ^h 18	21 ^h 10	14 ^h 47	16 ^h 52	T 30
F 31	3 13 58	17 ^h 5' 02"	26 ^h 40	4 ^h 48	18 ^h 57	2 ^h 43	13 ^h 18	1 ^h 14	8 ^h 30	19 ^h 24	25 ^h 7	20 ^h 12	21 ^h 3	14 ^h 53	16 ^h 50	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	6s43	13n36	2s 5	6s54	1s11	3s15	1n20	22n53	0n58	7s29	1s34	22s52	0n38	23s40	0s22	21s44	1n17	5n55	16n21	21s29	21s35	3s40	8n 4	1n 0	
T 2	7 6	7 44	3 10	6 8	0 50	3 46	1 19	22 50	1 0	7 31	1 34	22 53	0 38	23 40	0 22	21 44	1 17	5 54	16 21	21 30	21 36	3 37	8 3	1 0	
F 3	7 28	1 22	4 4	5 24	0 30	4 16	1 18	22 47	1 1	7 33	1 33	22 53	0 37	23 40	0 22	21 44	1 17	5 53	16 21	21 31	21 36	3 34	8 2	1 0	
S 4	7 51	5s 9	4 41	4 43	0 9	4 46	1 17	22 44	1 3	7 35	1 33	22 53	0 37	23 39	0 22	21 44	1 17	5 52	16 21	21 33	21 37	3 31	8 1	0 59	
S 5	8 14	11 21	4 59	4 6	0n10	5 16	1 16	22 41	1 4	7 37	1 33	22 53	0 37	23 39	0 22	21 45	1 17	5 51	16 21	21 35	21 37	3 28	8 0	0 59	
M 6	8 36	16 50	4 56	3 34	0 29	5 46	1 15	22 38	1 6	7 38	1 33	22 53	0 37	23 39	0 22	21 45	1 17	5 50	16 21	21 37	21 38	3 25	7 59	0 59	
T 7	8 58	21 13	4 34	3 8	0 46	6 16	1 14	22 35	1 8	7 40	1 33	22 53	0 37	23 39	0 22	21 45	1 17	5 49	16 21	21 38	21 38	3 22	7 57	0 59	
W 8	9 20	24 12	3 56	2 47	1 2	6 45	1 12	22 31	1 9	7 41	1 32	22 53	0 37	23 39	0 22	21 45	1 17	5 48	16 21	21 40	21 39	3 19	7 56	0 59	
T 9	9 42	25 39	3 5	2 33	1 16	7 15	1 11	22 28	1 11	7 43	1 32	22 54	0 37	23 39	0 22	21 45	1 17	5 48	16 21	21 41	21 39	3 16	7 55	0 59	
F 10	10 4	25 34	2 5	2 24	1 18	7 44	1 10	22 25	1 12	7 44	1 32	22 54	0 37	23 39	0 22	21 45	1 17	5 47	16 21	21 42	21 40	3 12	7 54	0 59	
S 11	10 26	24 7	1 1	2 21	1 39	8 13	1 8	22 22	1 14	7 46	1 32	22 54	0 36	23 39	0 22	21 46	1 17	5 46	16 21	21 42	21 41	3 9	7 53	0 59	
S 12	10 48	21 31	0n 4	2 24	1 48	8 42	1 7	22 19	1 16	7 47	1 32	22 54	0 36	23 39	0 22	21 46	1 17	5 45	16 21	21 42	21 41	3 6	7 51	0 59	
M13	11 9	18 0	1 7	2 31	1 55	9 11	1 5	22 16	1 17	7 48	1 31	22 54	0 36	23 39	0 22	21 46	1 17	5 44	16 21	21 42	21 42	3 3	7 50	0 59	
T 14	11 30	13 49	2 7	2 44	2 1	9 40	1 4	22 13	1 19	7 49	1 31	22 54	0 36	23 38	0 22	21 46	1 17	5 43	16 21	21 42	21 42	3 0	7 49	0 59	
W15	11 51	9 9	3 1	3 0	2 5	10 8	1 2	22 9	1 21	7 50	1 31	22 54	0 36	23 38	0 22	21 46	1 17	5 43	16 21	21 43	21 43	2 57	7 48	0 58	
T 16	12 12	4 10	3 46	3 20	2 9	10 36	1 0	22 6	1 23	7 51	1 31	22 55	0 36	23 38	0 22	21 46	1 17	5 42	16 21	21 43	21 43	2 54	7 47	0 58	
F 17	12 33	0n58	4 22	3 44	2 10	11 4	0 59	22 3	1 24	7 52	1 31	22 55	0 36	23 38	0 22	21 47	1 16	5 41	16 21	21 45	21 44	2 51	7 46	0 58	
S 18	12 53	6 7	4 47	4 10	2 11	11 32	0 57	22 0	1 26	7 53	1 30	22 55	0 36	23 38	0 22	21 47	1 16	5 40	16 21	21 47	21 44	2 48	7 45	0 58	
S 19	13 14	11 5	4 59	4 39	2 11	11 59	0 55	21 57	1 28	7 53	1 30	22 55	0 35	23 38	0 22	21 47	1 16	5 39	16 21	21 49	21 45	2 45	7 43	0 58	
M20	13 34	15 41	4 58	5 10	2 10	12 26	0 53	21 54	1 30	7 54	1 30	22 55	0 35	23 38	0 22	21 47	1 16	5 39	16 21	21 51	21 45	2 42	7 42	0 58	
T 21	13 54	19 42	4 42	5 43	2 8	12 53	0 51	21 51	1 32	7 55	1 30	22 55	0 35	23 37	0 22	21 47	1 16	5 38	16 21	21 53	21 46	2 39	7 41	0 58	
W22	14 13	22 52	4 12	6 17	2 6	13 19	0 49	21 48	1 33	7 55	1 29	22 55	0 35	23 37	0 22	21 48	1 16	5 37	16 21	21 55	21 46	2 36	7 40	0 58	
T 23	14 33	24 56	3 29	6 53	2 3	13 46	0 47	21 45	1 35	7 55	1 29	22 55	0 35	23 37	0 22	21 48	1 16	5 37	16 22	21 56	21 47	2 33	7 39	0 58	
F 24	14 52	25 41	2 35	7 29	1 59	14 11	0 45	21 43	1 37	7 56	1 29	22 55	0 35	23 37	0 22	21 48	1 16	5 36	16 22	21 57	21 47	2 30	7 38	0 58	
S 25	15 11	24 59	1 31	8 6	1 55	14 37	0 43	21 40	1 39	7 56	1 29	22 56	0 35	23 37	0 22	21 48	1 16	5 35	16 22	21 57	21 48	2 27	7 37	0 57	
S 26	15 30	22 51	0 21	8 43	1 50	15 2	0 41	21 37	1 41	7 56	1 28	22 56	0 35	23 37	0 22	21 48	1 16	5 34	16 22	21 58	21 48	2 23	7 36	0 57	
M27	15 48	19 22	0s51	9 21	1 45	15 27	0 39	21 34	1 43	7 56	1 28	22 56	0 35	23 37	0 22	21 48	1 16	5 34	16 22	21 58	21 49	2 20	7 35	0 57	
T 28	16 6	14 47	2 2	9 59	1 39	15 51	0 37	21 32	1 45	7 56	1 28	22 56	0 34	23 36	0 22	21 49	1 16	5 33	16 22	21 58	21 49	2 17	7 33	0 57	
W29	16 24	9 20	3 6	10 37	1 34	16 15	0 35	21 29	1 47	7 56	1 28	22 56	0 34	23 36	0 22	21 49	1 16	5 32	16 22	21 58	21 50	2 14	7 32	0 57	
T 30	16 42	3 19	4 0	11 15	1 28	16 38	0 33	21 27	1 49	7 56	1 27	22 56	0 34	23 36	0 22	21 49	1 16	5 32	16 23	21 58	21 50	2 11	7 31	0 57	
F 31	16s59	2s56	4s39	11s52	1n22	17s 1	0n30	21n25	1n51	7s56	1s27	22s56	0n34	23s36	0s22	21s49	1n16	5n31	16n23	21s59	21s51	2s 8	7n30	0n57	

ASTRODIENST EPHEMERIS for the year 1488

geocentric

NOVEMBER 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 17 55	18♌ 5'36	11♌15	6♌22	20♌12	3♌ 1	13♌18	1♌20	8♌32	19♌26	25♌ 9	20°R 5	21♌ 4	15♌ 0	16°R48	S 1
S 2	3 21 51	19° 6'11	25°52	7°57	21°28	3°19	13°18	1°26	8°35	19°28	25°11	19°55	21° 1	15° 7	16°V45	S 2
M 3	3 25 48	20° 6'48	10♌23	9°33	22°43	3°36	13°19	1°32	8°37	19°30	25°14	19°45	20°58	15°13	16°43	M 3
T 4	3 29 44	21° 7'27	24°40	11° 8	23°59	3°53	13°20	1°37	8°40	19°32	25°16	19°36	20°55	15°20	16°41	T 4
W 5	3 33 41	22° 8'07	8♌39	12°43	25°14	4° 9	13°21	1°43	8°43	19°35	25°18	19°28	20°51	15°27	16°38	W 5
T 6	3 37 37	23° 8'48	22°14	14°18	26°29	4°25	13°22	1°49	8°46	19°37	25°20	19°22	20°48	15°34	16°36	T 6
F 7	3 41 34	24° 9'31	5♌25	15°53	27°45	4°40	13°24	1°55	8°48	19°39	25°23	19°19	20°45	15°40	16°34	F 7
S 8	3 45 30	25°10'15	18°13	17°29	29° 0	4°54	13°26	2° 2	8°51	19°41	25°25	19°D18	20°42	15°47	16°32	S 8
S 9	3 49 27	26°11'00	0♌39	19° 3	0♌16	5° 8	13°28	2° 8	8°54	19°43	25°27	19°18	20°39	15°54	16°30	S 9
M10	3 53 24	27°11'46	12°49	20°38	1°31	5°22	13°30	2°14	8°57	19°45	25°29	19°19	20°35	16° 0	16°28	M10
T 11	3 57 20	28°12'33	24°48	22°13	2°47	5°35	13°32	2°20	9° 0	19°47	25°31	19°R20	20°32	16° 7	16°26	T 11
W12	4 1 17	29°13'21	6♌39	23°48	4° 2	5°47	13°35	2°26	9° 3	19°49	25°33	19°20	20°29	16°14	16°24	W12
T 13	4 5 13	0♌14'10	18°30	25°22	5°17	5°59	13°38	2°33	9° 6	19°51	25°35	19°18	20°26	16°20	16°22	T 13
F 14	4 9 10	1°15'00	0♌24	26°57	6°33	6°10	13°40	2°39	9° 9	19°54	25°37	19°14	20°23	16°27	16°20	F 14
S 15	4 13 6	2°15'51	12°26	28°31	7°48	6°20	13°44	2°45	9°12	19°56	25°40	19° 7	20°20	16°34	16°18	S 15
S 16	4 17 3	3°16'42	24°39	0♌ 6	9° 4	6°30	13°47	2°52	9°15	19°58	25°42	19° 0	20°16	16°41	16°17	S 16
M17	4 20 59	4°17'35	7♌ 7	1°40	10°19	6°39	13°51	2°58	9°18	20° 0	25°44	18°51	20°13	16°47	16°15	M17
T 18	4 24 56	5°18'29	19°49	3°14	11°34	6°48	13°54	3° 5	9°21	20° 2	25°46	18°43	20°10	16°54	16°13	T 18
W19	4 28 53	6°19'24	2♌47	4°49	12°50	6°56	13°58	3°11	9°24	20° 5	25°48	18°35	20° 7	17° 1	16°12	W19
T 20	4 32 49	7°20'19	16° 0	6°23	14° 5	7° 3	14° 2	3°18	9°27	20° 7	25°50	18°30	20° 4	17° 7	16°10	T 20
F 21	4 36 46	8°21'16	29°26	7°57	15°21	7°10	14° 7	3°24	9°30	20° 9	25°51	18°26	20° 1	17°14	16° 9	F 21
S 22	4 40 42	9°22'14	13♌ 3	9°31	16°36	7°15	14°11	3°31	9°33	20°11	25°53	18°D24	19°57	17°21	16° 7	S 22
S 23	4 44 39	10°23'13	26°49	11° 6	17°51	7°21	14°16	3°38	9°37	20°14	25°55	18°24	19°54	17°27	16° 6	S 23
M24	4 48 35	11°24'13	10♌43	12°40	19° 7	7°25	14°21	3°44	9°40	20°16	25°57	18°26	19°51	17°34	16° 4	M24
T 25	4 52 32	12°25'14	24°44	14°14	20°22	7°29	14°26	3°51	9°43	20°18	25°59	18°27	19°48	17°41	16° 3	T 25
W26	4 56 29	13°26'16	8♌49	15°49	21°38	7°32	14°31	3°58	9°46	20°20	26° 1	18°R28	19°45	17°48	16° 2	W26
T 27	5 0 25	14°27'19	22°59	17°23	22°53	7°34	14°36	4° 5	9°50	20°23	26° 3	18°28	19°41	17°54	16° 1	T 27
F 28	5 4 22	15°28'24	7♌10	18°58	24° 8	7°35	14°42	4°12	9°53	20°25	26° 4	18°26	19°38	18° 1	15°59	F 28
S 29	5 8 18	16°29'29	21°22	20°33	25°24	7°R36	14°48	4°18	9°56	20°27	26° 6	18°23	19°35	18° 8	15°58	S 29
S 30	5 12 15	17♌30'35	5♌30	22♌ 8	26♌39	7♌35	14♌54	4♌25	10♌ 0	20♌29	26♌ 8	18♌19	19♌32	18♌14	15♌57	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s16	9s 4	5s 0	12s30	1n15	17s24	0n28	21n22	1n53	7s55	1s27	22s56	0n34	23s36	0s22	21s49	1n16	5n31	16n23	22s 0	21s51	2s 5	7n29	0n57			
S 2	17 33	14 42	5 2	13 7	1 9	17 46	0 26	21 20	1 55	7 55	1 27	22 56	0 34	23 36	0 22	21 50	1 16	5 30	16 23	22 1	21 52	2 2	7 28	0 57			
M 3	17 49	19 28	4 45	13 44	1 2	18 7	0 24	21 18	1 57	7 54	1 26	22 56	0 34	23 35	0 22	21 50	1 16	5 29	16 23	22 3	21 52	1 59	7 27	0 56			
T 4	18 5	23 1	4 9	14 20	0 56	18 29	0 21	21 16	2 0	7 54	1 26	22 56	0 34	23 35	0 22	21 50	1 16	5 29	16 24	22 4	21 53	1 56	7 26	0 56			
W 5	18 21	25 6	3 20	14 55	0 49	18 49	0 19	21 15	2 2	7 53	1 26	22 56	0 34	23 35	0 22	21 50	1 16	5 28	16 24	22 5	21 53	1 53	7 25	0 56			
T 6	18 37	25 36	2 20	15 31	0 42	19 9	0 17	21 13	2 4	7 52	1 26	22 56	0 33	23 35	0 22	21 50	1 16	5 28	16 24	22 6	21 53	1 50	7 24	0 56			
F 7	18 52	24 37	1 14	16 5	0 35	19 29	0 14	21 11	2 6	7 51	1 25	22 56	0 33	23 35	0 22	21 50	1 16	5 27	16 24	22 7	21 54	1 47	7 24	0 56			
S 8	19 7	22 22	0 6	16 39	0 28	19 48	0 12	21 10	2 8	7 51	1 25	22 56	0 33	23 34	0 22	21 51	1 16	5 27	16 25	22 7	21 54	1 44	7 23	0 56			
S 9	19 21	19 5	1n 1	17 12	0 21	20 7	0 9	21 9	2 11	7 50	1 25	22 56	0 33	23 34	0 22	21 51	1 16	5 26	16 25	22 7	21 55	1 41	7 22	0 56			
M10	19 35	15 2	2 3	17 44	0 14	20 24	0 7	21 8	2 13	7 48	1 25	22 56	0 33	23 34	0 22	21 51	1 16	5 26	16 25	22 7	21 55	1 38	7 21	0 56			
T 11	19 49	10 29	2 59	18 15	0 8	20 42	0 5	21 7	2 15	7 47	1 24	22 56	0 33	23 34	0 22	21 51	1 16	5 25	16 25	22 6	21 56	1 35	7 20	0 56			
W12	20 2	5 35	3 47	18 46	0 1	20 59	0 2	21 6	2 18	7 46	1 24	22 56	0 33	23 34	0 22	21 51	1 16	5 25	16 26	22 7	21 56	1 32	7 19	0 55			
T 13	20 15	0 30	4 25	19 15	0s 6	21 15	0s 0	21 5	2 20	7 45	1 24	22 56	0 33	23 33	0 22	21 52	1 16	5 24	16 26	22 7	21 57	1 28	7 18	0 55			
F 14	20 28	4n37	4 52	19 44	0 13	21 30	0 3	21 5	2 22	7 43	1 24	22 56	0 33	23 33	0 22	21 52	1 16	5 24	16 26	22 7	21 57	1 25	7 17	0 55			
S 15	20 40	9 37	5 6	20 12	0 19	21 45	0 5	21 4	2 25	7 42	1 23	22 56	0 33	23 33	0 22	21 52	1 16	5 23	16 26	22 8	21 58	1 22	7 17	0 55			
S 16	20 52	14 19	5 6	20 39	0 26	21 59	0 7	21 4	2 27	7 40	1 23	22 56	0 33	23 33	0 22	21 52	1 16	5 23	16 27	22 9	21 58	1 19	7 16	0 55			
M17	21 4	18 32	4 53	21 5	0 32	22 13	0 10	21 4	2 30	7 39	1 23	22 56	0 32	23 33	0 22	21 52	1 16	5 22	16 27	22 11	21 59	1 16	7 15	0 55			
T 18	21 15	21 59	4 24	21 30	0 39	22 26	0 12	21 5	2 32	7 37	1 23	22 56	0 32	23 32	0 22	21 53	1 16	5 22	16 27	22 12	21 59	1 13	7 14	0 55			
W19	21 25	24 24	3 42	21 53	0 45	22 38	0 15	21 5	2 34	7 35	1 22	22 56	0 32	23 32	0 22	21 53	1 16	5 22	16 28	22 13	22 0	1 10	7 14	0 55			
T 20	21 36	25 32	2 47	22 16	0 51	22 50	0 17	21 5	2 37	7 34	1 22	22 56	0 32	23 32	0 22	21 53	1 16	5 21	16 28	22 14	22 0	1 7	7 13	0 54			
F 21	21 46	25 12	1 41	22 38	0 57	23 1	0 19	21 6	2 39	7 32	1 22	22 56	0 32	23 32	0 22	21 53	1 16	5 21	16 28	22 14	22 1	1 4	7 12	0 54			
S 22	21 55	23 21	0 29	22 58	1 3	23 11	0 22	21 7	2 42	7 30	1 22	22 56	0 32	23 31	0 22	21 53	1 16	5 21	16 29	22 14	22 1	1 1	7 11	0 54			
S 23	22 4	20 6	0s46	23 18	1 8	23 21	0 24	21 8	2 45	7 28	1 21	22 56	0 32	23 31	0 22	21 53	1 16	5 20	16 29	22 14	22 2	0 58	7 11	0 54			
M24	22 13	15 42	1 59	23 36	1 14	23 30	0 26	21 10	2 47	7 26	1 21	22 55	0 32	23 31	0 22	21 54	1 15	5 20	16 30	22 14	22 2	0 55	7 10	0 54			
T 25	22 21	10 25	3 5	23 53	1 19	23 38	0 29	21 11	2 50	7 23	1 21	22 55	0 32	23 31	0 22	21 54	1 15	5 20	16 30	22 14	22 2	0 52	7 10	0 54			
W26	22 29	4 34	4 1	24 9	1 24	23 45	0 31	21 13	2 52	7 21	1 21	22 55	0 32	23 31	0 22	21 54	1 15	5 20	16 30	22 14	22 3	0 49	7 9	0 54			
T 27	22 36	1s31	4 42	24 23	1 29	23 52	0 33	21 15	2 55	7 19	1 20	22 55	0 32	23 30	0 22	21 54	1 15	5 19	16 31	22 14	22 3	0 46	7 8	0 54			
F 28	22 43	7 32	5 6	24 36	1 34	23 58	0 36	21 17	2 58	7 16	1 20	22 55	0 31	23 30	0 22	21 54	1 15	5 19	16 31	22 14	22 4	0 43	7 8	0 53			
S 29	22 49	13 10	5 12	24 48	1 38	24 3	0 38	21 19	3 0	7 14	1 20	22 55	0 31	23 30	0 22	21 54	1 15	5 19	16 32	22 14	22 4	0 40	7 7	0 53			
S 30	22s55	18s 4	4s58	24s59	1s43	24s 8	0s40	21n22	3n 3	7s11	1s20	22s55	0n31	23s30	0s22	21s55	1n15	5n19	16n32	22s15	22s 5	0s37	7n 7	0n53			

ASTRODIENST EPHEMERIS for the year 1488
geocentric

DECEMBER 1488 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	5 16 11	18°31'42	19°31	23°43	27°55	7°R34	15°H 0	4°332	10°3 3	20°32	26°9	18°R14	19°329	18°21	15°R56	M 1
T 2	5 20 8	19°32'50	3°21	25°18	29°10	7°R33	15° 6	4°39	10° 6	20°34	26°11	18°3 9	19°26	18°28	15°Y55	T 2
W 3	5 24 4	20°33'59	16°57	26°54	0°25	7°30	15°13	4°46	10°10	20°36	26°13	18° 5	19°22	18°34	15°55	W 3
T 4	5 28 1	21°35'08	0°316	28°29	1°41	7°26	15°19	4°53	10°13	20°38	26°14	18° 3	19°19	18°41	15°54	T 4
F 5	5 31 58	22°36'17	13°16	0°3 5	2°56	7°22	15°26	5° 0	10°17	20°41	26°16	18°D 1	19°16	18°48	15°53	F 5
S 6	5 35 54	23°37'27	25°58	1°41	4°11	7°17	15°33	5° 7	10°20	20°43	26°18	18° 2	19°13	18°55	15°52	S 6
S 7	5 39 51	24°38'37	8°23	3°17	5°27	7°11	15°40	5°14	10°24	20°45	26°19	18° 3	19°10	19° 1	15°52	S 7
M 8	5 43 47	25°39'47	20°33	4°53	6°42	7° 4	15°47	5°21	10°27	20°47	26°21	18° 4	19° 7	19° 8	15°51	M 8
T 9	5 47 44	26°40'57	2°33	6°29	7°58	6°57	15°55	5°28	10°31	20°50	26°22	18° 6	19° 3	19°15	15°51	T 9
W10	5 51 40	27°42'08	14°26	8° 5	9°13	6°48	16° 2	5°35	10°34	20°52	26°23	18° 8	19° 0	19°21	15°50	W10
T 11	5 55 37	28°43'18	26°17	9°41	10°28	6°39	16°10	5°42	10°38	20°54	26°25	18°R 8	18°57	19°28	15°50	T 11
F 12	5 59 33	29°44'28	8°Y11	11°18	11°44	6°29	16°18	5°49	10°41	20°57	26°26	18° 8	18°54	19°35	15°49	F 12
S 13	6 3 30	0°345'38	20°13	12°54	12°59	6°18	16°26	5°56	10°45	20°59	26°28	18° 7	18°51	19°42	15°49	S 13
S 14	6 7 27	1°46'48	2°27	14°30	14°14	6° 6	16°34	6° 3	10°48	21° 1	26°29	18° 5	18°47	19°48	15°49	S 14
M15	6 11 23	2°47'58	14°58	16° 5	15°30	5°54	16°43	6°10	10°52	21° 3	26°30	18° 3	18°44	19°55	15°49	M15
T 16	6 15 20	3°49'08	27°47	17°41	16°45	5°41	16°51	6°17	10°55	21° 5	26°31	18° 1	18°41	20° 2	15°49	T 16
W17	6 19 16	4°50'17	10°II56	19°16	18° 0	5°27	17° 0	6°24	10°59	21° 8	26°33	17°59	18°38	20° 8	15°D49	W17
T 18	6 23 13	5°51'27	24°26	20°50	19°15	5°12	17° 9	6°31	11° 2	21°10	26°34	17°57	18°35	20°15	15°49	T 18
F 19	6 27 9	6°52'36	8°215	22°23	20°31	4°56	17°18	6°38	11° 6	21°12	26°35	17°56	18°32	20°22	15°49	F 19
S 20	6 31 6	7°53'46	22°19	23°55	21°46	4°40	17°27	6°45	11° 9	21°14	26°36	17°D56	18°28	20°28	15°49	S 20
S 21	6 35 3	8°54'55	6°235	25°26	23° 1	4°23	17°36	6°52	11°13	21°17	26°37	17°57	18°25	20°35	15°49	S 21
M22	6 38 59	9°56'04	20°57	26°55	24°16	4° 5	17°45	6°59	11°17	21°19	26°38	17°57	18°22	20°42	15°49	M22
T 23	6 42 56	10°57'13	5°II22	28°23	25°32	3°47	17°55	7° 7	11°20	21°21	26°39	17°58	18°19	20°49	15°50	T 23
W24	6 46 52	11°58'22	19°44	29°47	26°47	3°28	18° 4	7°14	11°24	21°23	26°40	17°59	18°16	20°55	15°50	W24
T 25	6 50 49	12°59'31	4°1	1°8 9	28° 2	3° 8	18°14	7°21	11°27	21°25	26°41	17°59	18°13	21° 2	15°50	T 25
F 26	6 54 45	14° 0'40	18° 9	2°28	29°17	2°48	18°24	7°28	11°31	21°27	26°42	17°R59	18° 9	21° 9	15°51	F 26
S 27	6 58 42	15° 1'49	2°II 7	3°42	0°32	2°28	18°34	7°35	11°34	21°29	26°43	17°59	18° 6	21°15	15°51	S 27
S 28	7 2 38	16° 2'58	15°53	4°52	1°47	2° 6	18°44	7°42	11°38	21°32	26°44	17°59	18° 3	21°22	15°52	S 28
M29	7 6 35	17° 4'07	29°28	5°56	3° 3	1°45	18°54	7°49	11°42	21°34	26°45	17°59	18° 0	21°29	15°53	M29
T 30	7 10 32	18° 5'16	12°Y50	6°54	4°18	1°22	19° 4	7°56	11°45	21°36	26°45	17°D58	17°57	21°36	15°53	T 30
W31	7 14 28	19°3 6'24	25°Y59	7°45	5°33	1°20	19°15	8°3 3	11°349	21°38	26°46	17°359	17°353	21°42	15°Y54	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 1	21s56	4s27	25s 8	1s47	24s12	0s42	21n25	3n 5	7s 9	1s19	22s55	0n31	23s29	0s22	21s55
T 2	23 6	24 29	3 41	25 16	1 51	24 15	0 44	21 28	3 8	7 6	1 19	22 54	0 31	23 29	0 22	21 55
W 3	23 10	25 33	2 42	25 22	1 54	24 17	0 46	21 31	3 11	7 3	1 19	22 54	0 31	23 29	0 22	21 55
T 4	23 14	25 6	1 36	25 27	1 57	24 18	0 49	21 35	3 13	7 1	1 19	22 54	0 31	23 28	0 22	21 55
F 5	23 18	23 17	0 26	25 31	2 0	24 19	0 51	21 38	3 16	6 58	1 19	22 54	0 31	23 28	0 22	21 55
S 6	23 21	20 18	0n44	25 32	2 3	24 19	0 53	21 42	3 19	6 55	1 18	22 54	0 31	23 28	0 22	21 56
S 7	23 24	16 27	1 50	25 33	2 5	24 18	0 55	21 46	3 21	6 52	1 18	22 54	0 31	23 28	0 22	21 56
M 8	23 26	12 0	2 50	25 32	2 7	24 17	0 57	21 51	3 24	6 49	1 18	22 53	0 31	23 27	0 22	21 56
T 9	23 28	7 9	3 41	25 29	2 8	24 14	0 59	21 55	3 27	6 46	1 18	22 53	0 31	23 27	0 22	21 56
W10	23 29	2 6	4 23	25 25	2 10	24 11	1 0	22 5	3 29	6 43	1 17	22 53	0 30	23 27	0 22	21 56
T 11	23 30	3n 0	4 23	25 19	2 10	24 8	1 2	22 5	3 32	6 39	1 17	22 53	0 30	23 27	0 22	21 56
F 12	23 30	8 1	5 11	25 11	2 10	24 3	1 4	22 10	3 35	6 36	1 17	22 52	0 30	23 26	0 22	21 57
S 13	23 30	12 47	5 15	25 2	2 10	23 58	1 6	22 15	3 37	6 33	1 17	22 52	0 30	23 26	0 22	21 57
S 14	23 30	17 8	5 6	24 52	2 9	23 52	1 8	22 21	3 40	6 29	1 17	22 52	0 30	23 26	0 22	21 57
M15	23 29	20 51	4 42	24 39	2 8	23 45	1 9	22 26	3 42	6 26	1 16	22 52	0 30	23 25	0 22	21 57
T 16	23 27	25 40	4 3	24 25	2 6	23 38	1 11	22 32	3 45	6 22	1 16	22 51	0 30	23 25	0 22	21 57
W17	23 25	25 18	3 11	24 10	2 4	23 29	1 12	22 38	3 47	6 19	1 16	22 51	0 30	23 25	0 22	21 57
T 18	23 23	25 30	2 7	23 53	2 1	23 20	1 14	22 44	3 49	6 15	1 16	22 51	0 30	23 25	0 22	21 57
F 19	23 20	24 8	0 53	23 34	1 57	23 11	1 16	22 50	3 52	6 11	1 16	22 51	0 30	23 24	0 22	21 58
S 20	23 16	21 15	0s24	23 14	1 53	23 0	1 17	22 56	3 54	6 8	1 15	22 50	0 30	23 24	0 22	21 58
S 21	23 12	17 3	1 42	22 52	1 48	22 49	1 18	23 2	3 56	6 4	1 15	22 50	0 30	23 24	0 22	21 58
M22	23 8	11 49	2 53	22 30	1 42	22 38	1 20	23 9	3 59	6 0	1 15	22 50	0 30	23 23	0 22	21 58
T 23	23 3	5 57	3 54	22 6	1 35	22 25	1 21	23 15	4 1	5 56	1 15	22 49	0 30	23 23	0 22	21 58
W24	22 58	0s13	4 40	21 40	1 27	22 12	1 22	23 22	4 3	5 52	1 15	22 49	0 29	23 23	0 22	21 58
T 25	22 52	6 18	5 8	21 14	1 19	21 58	1 23	23 28	4 5	5 48	1 14	22 49	0 29	23 23	0 22	21 58
F 26	22 46	12 1	5 17	20 47	1 9	21 44	1 24	23 35	4 7	5 44	1 14	22 48	0 29	23 22	0 22	21 59
S 27	22 39	17 3	5 8	20 20	0 59	21 29	1 25	23 42	4 8	5 40	1 14	22 48	0 29	23 22	0 22	21 59
S 28	22 32	21 7	4 40	19 52	0 47	21 13	1 26	23 48	4 10	5 36	1 14	22 48	0 29	23 22	0 22	21 59
M29	22 25	23 58	3 58	19 24	0 35	20 57	1 27	23 55	4 12	5 32	1 14	22 47	0 29	23 21	0 22	21 59
T 30	22 17	25 25	3 3	18 56	0 21	20 40	1 28	24 2	4 13	5 28	1 13	22 47	0 29	23 21	0 22	21 59
W31	22s 8	25s26	1s59	18s29	0s 7	20s22	1s29	24n 8	4n15	5s23	1s13	22s47	0n29	23s21	0s22	21s59

Julian Day Number = 2264884.5, Delta T = 05m15s
Ecliptic obliquity = 23°30'23", Nutation = 0°00'15", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°36'34", Lahiri = 16°43'35" Julian Calendar 1 Dec. 1488 == Greg. Calendar 10 Dec. 1488