



Astrodienst Ephemeris Tables for the year 1728

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 1728

geocentric

JANUARY 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 39 24	9°54'05	28°25	20°3	24°25	17°21	21°R53	13°18	20°58	6°R13	7°54	14°R32	15°50	25°41	12°50	T 1
F 2	6 43 20	10°55'14	12°40	20°13	25°17	17°34	21°50	13°24	21°1	6°II12	7°55	14°D31	15°47	25°48	12°50	F 2
S 3	6 47 17	11°56'24	26°53	20°32	26°9	17°46	21°47	13°31	21°4	6°11	7°55	14°R31	15°44	25°55	12°51	S 3
S 4	6 51 13	12°57'33	10°59	20°57	27°2	17°57	21°44	13°37	21°7	6°10	7°55	14°R31	15°40	26°1	12°52	S 4
M 5	6 55 10	13°58'43	25°0	21°29	27°55	18°8	21°42	13°44	21°9	6°8	7°55	14°31	15°37	26°8	12°52	M 5
T 6	6 59 6	14°59'53	8°54	22°7	28°49	18°18	21°39	13°51	21°12	6°7	7°56	14°28	15°34	26°15	12°53	T 6
W 7	7 3 3	16°1'03	22°40	22°50	29°44	18°28	21°37	13°57	21°14	6°6	7°56	14°23	15°31	26°21	12°54	W 7
T 8	7 7 0	17°2'13	6°18	23°38	0°40	18°37	21°36	14°4	21°17	6°5	7°56	14°16	15°28	26°28	12°55	T 8
F 9	7 10 56	18°3'23	19°45	24°30	1°36	18°45	21°34	14°11	21°19	6°3	7°56	14°6	15°25	26°35	12°55	F 9
S 10	7 14 53	19°4'33	3°0	25°26	2°33	18°53	21°32	14°17	21°22	6°2	7°56	13°56	15°21	26°41	12°56	S 10
S 11	7 18 49	20°5'42	16°2	26°25	3°30	19°0	21°31	14°24	21°24	6°1	7°R56	13°46	15°18	26°48	12°57	S 11
M12	7 22 46	21°6'51	28°48	27°27	4°27	19°7	21°30	14°31	21°26	6°0	7°56	13°37	15°15	26°55	12°58	M12
T 13	7 26 42	22°7'59	11°19	28°32	5°26	19°13	21°29	14°38	21°29	5°59	7°56	13°30	15°12	27°1	12°59	T 13
W14	7 30 39	23°9'07	23°36	29°39	6°24	19°18	21°29	14°45	21°31	5°58	7°56	13°25	15°9	27°8	13°1	W14
T 15	7 34 36	24°10'14	5°40	0°349	7°23	19°22	21°28	14°52	21°33	5°57	7°56	13°23	15°5	27°14	13°2	T 15
F 16	7 38 32	25°11'20	17°34	2°0	8°23	19°26	21°D28	14°58	21°35	5°56	7°56	13°D23	15°2	27°21	13°3	F 16
S 17	7 42 29	26°12'25	29°22	3°13	9°23	19°29	21°28	15°5	21°37	5°55	7°55	13°24	14°59	27°28	13°4	S 17
S 18	7 46 25	27°13'30	11°10	4°28	10°23	19°32	21°28	15°12	21°39	5°54	7°55	13°25	14°56	27°34	13°6	S 18
M19	7 50 22	28°14'33	23°1	5°45	11°24	19°33	21°29	15°19	21°41	5°53	7°55	13°R26	14°53	27°41	13°7	M19
T 20	7 54 18	29°15'35	5°8	7°3	12°25	19°34	21°30	15°26	21°43	5°52	7°54	13°26	14°50	27°48	13°9	T 20
W21	7 58 15	0°16'37	17°16	8°22	13°27	19°R35	21°30	15°33	21°45	5°51	7°54	13°25	14°46	27°54	13°10	W21
T 22	8 2 11	1°17'37	29°50	9°43	14°29	19°34	21°31	15°40	21°47	5°50	7°54	13°21	14°43	28°1	13°12	T 22
F 23	8 6 8	2°18'37	12°47	11°4	15°31	19°33	21°33	15°48	21°49	5°50	7°53	13°16	14°40	28°8	13°14	F 23
S 24	8 10 5	3°19'35	26°9	12°27	16°34	19°31	21°34	15°55	21°51	5°49	7°53	13°9	14°37	28°14	13°15	S 24
S 25	8 14 1	4°20'32	9°56	13°51	17°37	19°28	21°36	16°2	21°53	5°48	7°52	13°3	14°34	28°21	13°17	S 25
M26	8 17 58	5°21'28	24°5	15°15	18°40	19°24	21°38	16°9	21°54	5°48	7°52	12°56	14°31	28°28	13°19	M26
T 27	8 21 54	6°22'23	8°33	16°41	19°43	19°20	21°40	16°16	21°56	5°47	7°51	12°51	14°27	28°34	13°21	T 27
W28	8 25 51	7°23'17	23°13	18°8	20°47	19°15	21°42	16°23	21°57	5°46	7°51	12°48	14°24	28°41	13°22	W28
T 29	8 29 47	8°24'10	7°58	19°35	21°51	19°9	21°44	16°30	21°59	5°46	7°50	12°D47	14°21	28°48	13°24	T 29
F 30	8 33 44	9°25'02	22°41	21°3	22°56	19°2	21°47	16°37	22°0	5°45	7°50	12°47	14°18	28°54	13°26	F 30
S 31	8 37 40	10°25'54	7°15	22°32	24°1	18°54	21°50	16°45	22°2	5°II45	7°49	12°48	14°15	29°1	13°28	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23s 6	13n22	1n25	20s10	2n56	15s11	3n50	7n48	3n 2	17n22	0s56	17s48	0s59	17s44	0n18	19n47
F 2	23 2	6 58	0 10	20 17	2 50	15 22	3 51	7 44	3 4	17 21	0 56	17 46	0 59	17 45	0 18	19 47
S 3	22 56	0 15	1s 6	20 25	2 43	15 34	3 52	7 41	3 5	17 21	0 55	17 44	0 59	17 46	0 18	19 47
S 4	22 51	6s27	2 16	20 35	2 36	15 45	3 52	7 38	3 7	17 20	0 55	17 42	0 59	17 46	0 18	19 46
M 5	22 45	12 46	3 19	20 45	2 27	15 57	3 52	7 36	3 9	17 20	0 55	17 40	0 59	17 47	0 18	19 46
T 6	22 38	18 24	4 9	20 56	2 19	16 9	3 52	7 33	3 11	17 20	0 55	17 38	0 59	17 48	0 18	19 46
W 7	22 31	23 2	4 44	21 7	2 10	16 21	3 52	7 31	3 12	17 19	0 54	17 36	0 59	17 48	0 18	19 46
T 8	22 23	26 21	5 2	21 19	2 1	16 33	3 52	7 29	3 14	17 19	0 54	17 35	0 59	17 49	0 18	19 46
F 9	22 15	28 7	5 3	21 30	1 52	16 44	3 51	7 28	3 16	17 19	0 54	17 33	0 59	17 50	0 18	19 46
S 10	22 7	28 15	4 48	21 42	1 42	16 56	3 50	7 26	3 18	17 19	0 54	17 31	0 59	17 50	0 18	19 45
S 11	21 58	26 47	4 19	21 53	1 33	17 8	3 50	7 25	3 20	17 19	0 53	17 29	0 59	17 51	0 18	19 45
M12	21 49	28 37	3 36	22 4	1 24	17 19	3 48	7 24	3 21	17 19	0 53	17 27	0 59	17 51	0 18	19 45
T 13	21 39	20 2	2 44	22 14	1 14	17 31	3 47	7 23	3 23	17 19	0 53	17 25	0 59	17 52	0 18	19 45
W14	21 29	15 19	1 45	22 24	1 5	17 42	3 46	7 23	3 25	17 19	0 52	17 23	0 59	17 53	0 18	19 45
T 15	21 19	10 6	0 42	22 33	0 56	17 53	3 44	7 23	3 27	17 19	0 52	17 21	0 59	17 53	0 18	19 45
F 16	21 8	4 34	0n23	22 41	0 37	18 4	3 43	7 23	3 29	17 19	0 52	17 19	0 59	17 54	0 18	19 45
S 17	20 57	1n 3	1 26	22 49	0 48	18 15	3 41	7 23	3 30	17 20	0 52	17 17	0 59	17 54	0 18	19 44
S 18	20 45	6 38	2 25	22 55	0 29	18 26	3 39	7 24	3 32	17 20	0 51	17 15	0 59	17 55	0 18	19 44
M19	20 33	12 1	3 18	23 1	0 20	18 36	3 37	7 25	3 34	17 20	0 51	17 13	0 59	17 55	0 18	19 44
T 20	20 20	17 2	4 3	23 6	0 12	18 46	3 35	7 26	3 36	17 21	0 51	17 11	0 59	17 56	0 18	19 44
W21	20 7	21 28	4 39	23 10	0 3	18 56	3 32	7 28	3 38	17 21	0 51	17 9	0 59	17 56	0 18	19 44
T 22	19 54	25 3	5 2	23 12	0s 5	19 6	3 30	7 30	3 39	17 22	0 50	17 7	0 59	17 57	0 18	19 44
F 23	19 41	27 29	5 10	23 14	0 13	19 15	3 27	7 32	3 41	17 22	0 50	17 4	1 0	17 57	0 18	19 44
S 24	19 27	28 27	5 2	23 14	0 21	19 24	3 25	7 34	3 43	17 23	0 50	17 2	1 0	17 58	0 18	19 44
S 25	19 12	27 43	4 37	23 14	0 28	19 33	3 22	7 37	3 45	17 24	0 49	17 0	1 0	17 58	0 18	19 44
M26	18 58	25 10	3 54	23 12	0 36	19 41	3 19	7 40	3 46	17 24	0 49	16 58	1 0	17 59	0 18	19 44
T 27	18 43	20 59	2 56	23 8	0 43	19 49	3 16	7 43	3 48	17 25	0 49	16 56	1 0	17 59	0 18	19 44
W28	18 27	15 27	1 45	23 4	0 50	19 57	3 13	7 47	3 50	17 26	0 49	16 54	1 0	17 59	0 18	19 44
T 29	18 11	9 0	0 26	22 58	0 56	20 4	3 10	7 51	3 51	17 27	0 48	16 52	1 0	18 0	0 18	19 43
F 30	17 55	2 5	0s54	22 52	1 3	20 11	3 7	7 55	3 53	17 28	0 48	16 50	1 0	18 0	0 18	19 43
S 31	17s39	4s52	2s10	22s43	1s 9	20s17	3n 3	7n59	3n55	17n29	0s48	16s48	1s 0	18s 1	0n18	19n43

Julian Day Number = 2352198.5, Delta T = 10.93 sec

Ecliptic obliquity = 23°28'37", Nutation = 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°56'35", Lahiri = 20°03'36"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1728
geocentric

FEBRUARY 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 41 37	11 ²⁶ 44	21 ¹² 38	24 ²⁸ 2	25 ²⁷ 6	18 ⁰ R46	21 ⁸ 53	16 ²⁶ 52	22 ¹¹ 3	5 ⁰ R44	7 ⁰ R48	12 ¹² 50	14 ¹¹ 11	29 ¹¹ 7	13 ¹³ 31	S 1
M 2	8 45 34	12 ²⁷ 33	5 ¹¹ 45	25 ³³ 3	26 ¹¹ 1	18 ¹¹ 37	21 ⁵⁶ 1	16 ⁵⁹ 2	22 ⁵ 5	5 ¹¹ 44	7 ¹² 47	12 ⁵¹ 1	14 ⁸ 8	29 ¹⁴ 1	13 ³³ 3	M 2
T 3	8 49 30	13 ²⁸ 22	19 ³⁷ 2	27 ⁴ 4	27 ¹⁶ 1	18 ²⁷ 0	22 ⁰ 0	17 ⁶ 6	22 ⁶ 6	5 ⁴³ 3	7 ⁴⁷ 4	12 ⁰ R51	14 ⁵ 5	29 ²¹ 1	13 ³⁵ 5	T 3
W 4	8 53 27	14 ²⁹ 10	3 ²⁷ 12	28 ³⁶ 2	28 ²² 2	18 ¹⁶ 2	22 ³ 3	17 ¹³ 3	22 ⁷ 7	5 ⁴³ 3	7 ⁴⁶ 4	12 ⁵⁰ 1	14 ² 2	29 ²⁷ 1	13 ³⁷ 7	W 4
T 5	8 57 23	15 ²⁹ 56	16 ³³ 3	0 ²⁸ 10	29 ²⁸ 8	18 ⁵ 5	22 ⁷ 7	17 ²¹ 1	22 ⁸ 8	5 ⁴² 2	7 ⁴⁵ 5	12 ⁴⁷ 7	13 ⁵⁹ 9	29 ³⁴ 4	13 ³⁹ 9	T 5
F 6	9 1 20	16 ³⁰ 42	29 ³⁸ 1	1 ⁴³ 3	0 ³⁴ 3	17 ⁵³ 3	22 ¹¹ 1	17 ²⁸ 8	22 ⁹ 9	5 ⁴² 2	7 ⁴⁴ 4	12 ⁴³ 3	13 ⁵⁶ 6	29 ⁴¹ 1	13 ⁴² 2	F 6
S 7	9 5 16	17 ³¹ 27	12 ³⁰ 3	3 ¹⁸ 1	1 ⁴⁰ 0	17 ⁴⁰ 0	22 ¹⁵ 1	17 ³⁵ 5	22 ¹⁰ 10	5 ⁴² 2	7 ⁴³ 3	12 ³⁹ 3	13 ⁵² 2	29 ⁴⁷ 1	13 ⁴⁴ 4	S 7
S 8	9 9 13	18 ³² 10	25 ¹⁰ 1	4 ⁵⁴ 4	2 ⁴⁷ 7	17 ²⁶ 2	22 ²⁰ 2	17 ⁴² 2	22 ¹¹ 1	5 ⁴¹ 1	7 ⁴² 2	12 ³⁵ 5	13 ⁴⁹ 9	29 ⁵⁴ 4	13 ⁴⁶ 6	S 8
M 9	9 13 9	19 ³² 52	7 ²⁶ 36	6 ³⁰ 3	3 ⁵⁴ 4	17 ¹¹ 1	22 ²⁴ 2	17 ⁴⁹ 9	22 ¹² 12	5 ⁴¹ 1	7 ⁴¹ 1	12 ³¹ 1	13 ⁴⁶ 6	0 ¹ 1	13 ⁴⁹ 9	M 9
T 10	9 17 6	20 ³³ 33	19 ⁵² 8	8 ⁷ 7	5 ⁰ 0	16 ⁵⁶ 6	22 ²⁹ 17	17 ⁵⁷ 7	22 ¹³ 13	5 ⁴¹ 1	7 ⁴⁰ 0	12 ²⁸ 8	13 ⁴³ 3	0 ⁷ 7	13 ⁵¹ 1	T 10
W 11	9 21 3	21 ³⁴ 12	1 ¹⁸ 58	9 ⁴⁵ 6	6 ⁷ 7	16 ⁴⁰ 4	22 ³⁴ 18	18 ⁴ 4	22 ¹⁴ 14	5 ⁴¹ 1	7 ³⁹ 9	12 ²⁷ 7	13 ⁴⁰ 0	0 ¹⁴ 1	13 ⁵⁴ 4	W 11
T 12	9 24 59	22 ³⁴ 50	13 ⁵⁵ 1	11 ²⁴ 4	7 ¹⁵ 1	16 ²³ 3	22 ³⁹ 18	18 ¹¹ 1	22 ¹⁵ 15	5 ⁴¹ 1	7 ³⁸ 8	12 ⁰ D26	13 ³⁷ 7	0 ²¹ 1	13 ⁵⁷ 7	T 12
F 13	9 28 56	23 ³⁵ 26	25 ⁴⁶ 1	13 ⁴ 4	8 ²² 2	16 ⁶ 6	22 ⁴⁴ 18	18 ¹⁸ 1	22 ¹⁶ 16	5 ⁴¹ 1	7 ³⁷ 7	12 ²⁷ 7	13 ³³ 3	0 ²⁷ 1	13 ⁵⁹ 9	F 13
S 14	9 32 52	24 ³⁶ 00	7 ¹⁹ 33	14 ⁴⁴ 4	9 ³⁰ 3	15 ⁴⁸ 8	22 ⁵⁰ 18	18 ²⁶ 2	22 ¹⁶ 16	5 ⁴¹ 1	7 ³⁶ 6	12 ²⁸ 8	13 ³⁰ 0	0 ³⁴ 4	14 ² 2	S 14
S 15	9 36 49	25 ³⁶ 33	19 ²¹ 1	16 ²⁶ 2	10 ³⁷ 7	15 ²⁹ 2	22 ⁵⁵ 18	18 ³³ 3	22 ¹⁷ 17	5 ⁰ D40	7 ³⁵ 5	12 ³⁰ 0	13 ²⁷ 7	0 ⁴¹ 1	14 ⁴ 4	S 15
M 16	9 40 45	26 ³⁷ 04	1 ¹⁸ 12	18 ⁸ 8	11 ⁴⁵ 5	15 ¹⁰ 1	23 ¹ 1	18 ⁴⁰ 0	22 ¹⁸ 18	5 ⁴⁰ 0	7 ³⁴ 4	12 ³¹ 1	13 ²⁴ 4	0 ⁴⁷ 7	14 ⁷ 7	M 16
T 17	9 44 42	27 ³⁷ 33	13 ¹¹ 1	19 ⁵² 1	12 ⁵³ 3	14 ⁵¹ 1	23 ⁷ 7	18 ⁴⁷ 7	22 ¹⁸ 18	5 ⁴¹ 1	7 ³³ 3	12 ³² 1	13 ²¹ 1	0 ⁵⁴ 4	14 ¹⁰ 1	T 17
W 18	9 48 38	28 ³⁸ 01	25 ²⁴ 2	21 ³⁶ 1	14 ¹ 1	14 ³⁰ 0	23 ¹³ 1	18 ⁵⁴ 4	22 ¹⁸ 18	5 ⁴¹ 1	7 ³² 2	12 ⁰ R33	13 ¹⁷ 7	1 ¹ 1	14 ¹³ 3	W 18
T 19	9 52 35	29 ³⁸ 26	7 ¹¹ 53	23 ²¹ 1	15 ¹⁰ 1	14 ⁹ 9	23 ¹⁹ 1	19 ¹ 1	22 ¹⁹ 19	5 ⁴¹ 1	7 ³⁰ 0	12 ³³ 1	13 ¹⁴ 1	1 ⁷ 7	14 ¹⁶ 1	T 19
F 20	9 56 32	0 ¹⁸ 38'50	20 ⁴⁵ 2	25 ⁷ 7	16 ¹⁸ 1	13 ⁴⁸ 8	23 ²⁶ 1	19 ⁸ 8	22 ¹⁹ 19	5 ⁴¹ 1	7 ²⁹ 9	12 ³² 1	13 ¹¹ 1	1 ¹⁴ 1	14 ¹⁹ 1	F 20
S 21	10 0 28	1 ³⁹ 11	4 ²⁶ 2	26 ⁵⁴ 4	17 ²⁷ 7	13 ²⁷ 7	23 ³² 1	19 ¹⁶ 1	22 ²⁰ 2	5 ⁴¹ 1	7 ²⁸ 8	12 ³¹ 1	13 ⁸ 8	1 ²¹ 1	14 ²¹ 1	S 21
S 22	10 4 25	2 ³⁹ 31	17 ⁴⁶ 2	28 ⁴² 2	18 ³⁵ 5	13 ⁵ 5	23 ³⁹ 1	19 ²³ 1	22 ²⁰ 2	5 ⁴¹ 1	7 ²⁷ 7	12 ³⁰ 0	13 ⁵ 5	1 ²⁷ 7	14 ²⁴ 4	S 22
M 23	10 8 21	3 ³⁹ 49	1 ¹² 56	0 ¹⁸ 32	19 ⁴⁴ 4	12 ⁴² 2	23 ⁴⁶ 1	19 ³⁰ 0	22 ²⁰ 2	5 ⁴¹ 1	7 ²⁵ 5	12 ²⁹ 9	13 ² 2	1 ³⁴ 4	14 ²⁷ 7	M 23
T 24	10 12 18	4 ⁴⁰ 05	16 ³¹ 1	2 ²² 2	20 ⁵³ 3	12 ¹⁹ 1	23 ⁵³ 3	19 ³⁷ 7	22 ²⁰ 2	5 ⁴² 2	7 ²⁴ 4	12 ²⁸ 8	12 ⁵⁸ 8	1 ⁴⁰ 0	14 ³⁰ 0	T 24
W 25	10 16 14	5 ⁴⁰ 18	1 ¹¹ 24	4 ¹³ 2	2 ² 2	11 ⁵⁶ 6	24 ⁰ 0	19 ⁴⁴ 4	22 ²⁰ 2	5 ⁴² 2	7 ²³ 3	12 ²⁷ 7	12 ⁵⁵ 5	1 ⁴⁷ 7	14 ³³ 3	W 25
T 26	10 20 11	6 ⁴⁰ 30	16 ²⁸ 8	6 ⁵ 5	23 ¹¹ 1	11 ³³ 3	24 ⁸ 8	19 ⁵¹ 1	22 ⁰ R20	5 ⁴² 2	7 ²¹ 1	12 ⁰ D27	12 ⁵² 2	1 ⁵⁴ 4	14 ³⁷ 7	T 26
F 27	10 24 7	7 ⁴⁰ 41	1 ¹² 34	7 ⁵⁷ 7	24 ²¹ 1	11 ¹⁰ 1	24 ¹⁵ 1	19 ⁵⁸ 8	22 ²⁰ 2	5 ⁴³ 3	7 ²⁰ 0	12 ²⁷ 7	12 ⁴⁹ 9	2 ⁰ 0	14 ⁴⁰ 0	F 27
S 28	10 28 4	8 ⁴⁰ 49	16 ³⁴ 4	9 ⁵¹ 1	25 ³⁰ 0	10 ⁴⁶ 6	24 ²³ 2	20 ⁵ 5	22 ²⁰ 2	5 ⁴³ 3	7 ¹⁹ 9	12 ²⁸ 8	12 ⁴⁶ 6	2 ⁷ 7	14 ⁴³ 3	S 28
S 29	10 32 1	9 ¹⁸ 40'56	1 ¹¹ 18	11 ¹⁸ 1	26 ³⁹ 3	10 ¹¹ 23	24 ³⁰ 3	20 ²⁶ 2	22 ¹¹ 20	5 ¹¹ 44	7 ¹⁷ 1	12 ¹⁸ 2	12 ¹⁸ 2	2 ¹⁴ 1	14 ¹⁴ 4	S 29

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
-----	---	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

ASTRODIENST EPHEMERIS for the year 1728
geocentric

MARCH 1728

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 35 57	10°41'02	15°43	13°41	27°49	9°R59	24°38	20°19	22°R20	5°II44	7°R16	12°R28	12°R39	2°V20	14°V49	M 1
T 2	10 39 54	11°41'05	29°45	15°37	28°59	9°R35	24°47	20°26	22°R19	5°45	7°R14	12°28	12°36	2°27	14°52	T 2
W 3	10 43 50	12°41'08	13°24	17°33	0°8	9°12	24°55	20°33	22°19	5°45	7°13	12°28	12°33	2°34	14°56	W 3
T 4	10 47 47	13°41'09	26°39	19°30	1°18	8°48	25°3	20°39	22°19	5°46	7°11	12°28	12°30	2°40	14°59	T 4
F 5	10 51 43	14°41'08	9°35	21°27	2°28	8°24	25°12	20°46	22°18	5°46	7°10	12°28	12°27	2°47	15°2	F 5
S 6	10 55 40	15°41'05	22°12	23°25	3°38	8°1	25°20	20°53	22°18	5°47	7°8	12°29	12°23	2°54	15°6	S 6
S 7	10 59 36	16°41'01	4°35	25°22	4°48	7°38	25°29	21°0	22°17	5°48	7°7	12°29	12°20	3°0	15°9	S 7
M 8	11 3 33	17°40'55	16°46	27°18	5°59	7°15	25°38	21°7	22°17	5°49	7°5	12°30	12°17	3°7	15°12	M 8
T 9	11 7 30	18°40'47	28°48	29°14	7°9	6°52	25°47	21°13	22°16	5°49	7°4	12°30	12°14	3°14	15°16	T 9
W10	11 11 26	19°40'37	10°43	1°V9	8°19	6°30	25°56	21°20	22°16	5°50	7°2	12°R30	12°11	3°20	15°19	W10
T 11	11 15 23	20°40'25	22°34	3°3	9°30	6°8	26°5	21°26	22°15	5°51	7°1	12°30	12°8	3°27	15°23	T 11
F 12	11 19 19	21°40'12	4°V22	4°54	10°40	5°47	26°15	21°33	22°14	5°52	6°59	12°30	12°4	3°34	15°26	F 12
S 13	11 23 16	22°39'56	16°10	6°43	11°51	5°26	26°24	21°40	22°13	5°53	6°57	12°28	12°1	3°40	15°30	S 13
S 14	11 27 12	23°39'38	28°0	8°30	13°1	5°5	26°34	21°46	22°12	5°54	6°56	12°27	11°58	3°47	15°33	S 14
M15	11 31 9	24°39'18	9°55	10°14	14°12	4°45	26°44	21°53	22°12	5°54	6°54	12°25	11°55	3°54	15°37	M15
T 16	11 35 5	25°38'56	21°57	11°53	15°23	4°26	26°53	21°59	22°11	5°55	6°52	12°23	11°52	4°0	15°40	T 16
W17	11 39 2	26°38'31	4°II10	13°29	16°33	4°7	27°3	22°5	22°10	5°56	6°51	12°22	11°48	4°7	15°44	W17
T 18	11 42 58	27°38'05	16°38	15°0	17°44	3°49	27°13	22°12	22°8	5°57	6°49	12°21	11°45	4°14	15°47	T 18
F 19	11 46 55	28°37'36	29°25	16°27	18°55	3°31	27°24	22°18	22°7	5°59	6°48	12°D20	11°42	4°20	15°51	F 19
S 20	11 50 52	29°37'04	12°34	17°47	20°6	3°14	27°34	22°24	22°6	6°0	6°46	12°21	11°39	4°27	15°54	S 20
S 21	11 54 48	0°V36'31	26°7	19°2	21°17	2°58	27°44	22°31	22°5	6°1	6°44	12°22	11°36	4°33	15°58	S 21
M22	11 58 45	1°35'55	10°8	20°11	22°28	2°43	27°55	22°37	22°4	6°2	6°43	12°23	11°33	4°40	16°2	M22
T 23	12 2 41	2°35'16	24°34	21°14	23°39	2°28	28°5	22°43	22°2	6°3	6°41	12°24	11°29	4°47	16°5	T 23
W24	12 6 38	3°34'36	9°V23	22°10	24°50	2°14	28°16	22°49	22°1	6°4	6°39	12°R25	11°26	4°53	16°9	W24
T 25	12 10 34	4°33'53	24°29	22°59	26°2	2°0	28°27	22°55	22°0	6°6	6°38	12°25	11°23	5°0	16°13	T 25
F 26	12 14 31	5°33'08	9°44	23°41	27°13	1°48	28°38	23°1	21°58	6°7	6°36	12°23	11°20	5°7	16°16	F 26
S 27	12 18 27	6°32'21	24°57	24°16	28°24	1°36	28°49	23°7	21°57	6°8	6°34	12°21	11°17	5°13	16°20	S 27
S 28	12 22 24	7°31'32	9°V59	24°43	29°36	1°25	29°0	23°13	21°55	6°9	6°33	12°17	11°14	5°20	16°24	S 28
M29	12 26 21	8°30'41	24°41	25°3	0°V47	1°15	29°11	23°18	21°54	6°11	6°31	12°14	11°10	5°27	16°27	M29
T 30	12 30 17	9°29'49	8°V58	25°17	1°58	1°5	29°22	23°24	21°52	6°12	6°29	12°10	11°7	5°33	16°31	T 30
W31	12 34 14	10°V28'54	22°V46	25°R22	3°V10	0°V56	29°R33	23°30	21°V50	6°II14	6°V28	12°V8	11°V4	5°V40	16°V35	W31

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
M 1	7s34	21s 6	4s44	7s48	1s30	19s36	1n 3	11n45	4n13	18n18	0s41	15s43	1s 2	18s 5	0n19	19n45
T 2	7 12	25 10	5 10	6 58	1 23	19 26	0 59	11 53	4 12	18 20	0 40	15 41	1 2	18 5	0 19	19 45
W 3	6 49	27 42	5 18	6 6	1 16	19 15	0 55	12 1	4 12	18 23	0 40	15 39	1 2	18 5	0 19	19 45
T 4	6 26	28 34	5 8	5 13	1 8	19 4	0 51	12 9	4 11	18 25	0 40	15 37	1 3	18 5	0 19	19 46
F 5	6 2	27 50	4 43	4 19	1 0	18 53	0 47	12 17	4 10	18 27	0 40	15 35	1 3	18 5	0 19	19 46
S 6	5 39	25 40	4 5	3 24	0 51	18 41	0 43	12 25	4 8	18 29	0 40	15 33	1 3	18 4	0 19	19 46
S 7	5 16	22 19	3 16	2 29	0 42	18 28	0 39	12 32	4 7	18 32	0 39	15 31	1 3	18 4	0 19	19 46
M 8	4 53	18 2	2 18	1 33	0 32	18 15	0 34	12 40	4 6	18 34	0 39	15 29	1 3	18 4	0 19	19 46
T 9	4 29	13 5	1 15	0 37	0 21	18 1	0 30	12 47	4 4	18 36	0 39	15 27	1 3	18 4	0 19	19 46
W10	4 6	7 43	0 10	0n18	0 10	17 47	0 26	12 54	4 3	18 39	0 39	15 25	1 3	18 4	0 19	19 47
T 11	3 42	2 6	0n56	1 14	0n 1	17 33	0 22	13 0	4 1	18 41	0 39	15 23	1 3	18 4	0 19	19 47
F 12	3 19	3n33	1 58	2 9	0 13	17 18	0 18	13 7	4 0	18 43	0 38	15 21	1 3	18 3	0 19	19 47
S 13	2 55	9 5	2 56	3 4	0 25	17 2	0 15	13 13	3 58	18 46	0 38	15 19	1 4	18 3	0 19	19 47
S 14	2 31	14 18	3 46	3 57	0 38	16 46	0 11	13 19	3 56	18 48	0 38	15 17	1 4	18 3	0 19	19 47
M15	2 8	19 2	4 27	4 50	0 50	16 29	0 7	13 25	3 54	18 51	0 38	15 15	1 4	18 3	0 19	19 48
T 16	1 44	23 3	4 57	5 41	1 3	16 12	0 3	13 30	3 52	18 53	0 38	15 13	1 4	18 2	0 19	19 48
W17	1 20	26 8	5 13	6 30	1 16	15 55	0s 1	13 35	3 50	18 56	0 37	15 11	1 4	18 2	0 19	19 48
T 18	0 57	28 2	5 16	7 17	1 28	15 37	0 4	13 40	3 48	18 58	0 37	15 9	1 4	18 2	0 19	19 48
F 19	0 33	28 31	5 3	8 2	1 41	15 18	0 8	13 44	3 46	19 1	0 37	15 7	1 4	18 2	0 19	19 49
S 20	0 9	27 25	4 34	8 44	1 53	14 59	0 12	13 48	3 43	19 3	0 37	15 5	1 4	18 1	0 19	19 49
S 21	0n15	24 42	3 49	9 23	2 5	14 40	0 15	13 52	3 41	19 6	0 37	15 3	1 5	18 1	0 19	19 49
M22	0 38	20 27	2 49	10 0	2 16	14 20	0 19	13 55	3 39	19 8	0 36	15 1	1 5	18 1	0 19	19 49
T 23	1 2	14 53	1 37	10 33	2 26	14 0	0 22	13 59	3 37	19 11	0 36	14 59	1 5	18 0	0 19	19 50
W24	1 25	8 19	0 17	11 3	2 36	13 40	0 25	14 2	3 34	19 13	0 36	14 57	1 5	18 0	0 19	19 50
T 25	1 49	1 11	1s 6	11 30	2 45	13 19	0 29	14 4	3 32	19 16	0 36	14 55	1 5	18 0	0 19	19 50
F 26	2 13	6s 5	2 25	11 53	2 53	12 57	0 32	14 6	3 29	19 18	0 36	14 54	1 5	17 59	0 19	19 50
S 27	2 36	12 59	3 33	12 13	3 0	12 36	0 35	14 8	3 27	19 21	0 36	14 52	1 5	17 59	0 19	19 51
S 28	2 59	19 2	4 26	12 28	3 6	12 14	0 38	14 10	3 24	19 23	0 35	14 50	1 5	17 58	0 19	19 51
M29	3 23	23 49	5 0	12 40	3 11	11 51	0 41	14 11	3 22	19 26	0 35	14 48	1 6	17 58	0 19	19 51
T 30	3 46	26 59	5 14	12 48	3 14	11 29	0 44	14 12	3 19	19 29	0 35	14 46	1 6	17 58	0 19	19 52
W31	4n 9	28s25	5s 9	12n52	3n16	11s 6	0s47	14n13	3n17	19n31	0s35	14s45	1s 6	17s57	0n19	19n52

Julian Day Number = 2352258.5, Delta T = 10.95 sec
Ecliptic obliquity = 23°28'38", Nutation = 0°00'06", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°56'43", Lahiri = 20°03'44"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1728

geocentric

APRIL 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 38 10	11°27'58	6°37	25°R21	4°H21	0°R48	29°B45	23°A36	21°R49	6°II15	6°R26	12°D 7	11°H 1	5°Y47	16°Y39	T 1
F 2	12 42 7	12°27'01	19° 2	25°Y14	5°33	0°M41	29°56	23°41	21°M47	6°17	6°A24	12°H 7	10°58	5°53	16°42	F 2
S 3	12 46 3	13°26'01	1°A35	25° 0	6°44	0°35	0°II 8	23°47	21°45	6°18	6°23	12° 8	10°54	6° 0	16°46	S 3
S 4	12 50 0	14°25'00	13°51	24°39	7°56	0°29	0°20	23°52	21°44	6°20	6°21	12°10	10°51	6° 7	16°50	S 4
M 5	12 53 56	15°23'56	25°53	24°14	9° 8	0°24	0°31	23°57	21°42	6°21	6°19	12°11	10°48	6°13	16°53	M 5
T 6	12 57 53	16°22'51	7°H47	23°43	10°19	0°20	0°43	24° 3	21°40	6°23	6°18	12°R12	10°45	6°20	16°57	T 6
W 7	13 1 50	17°21'44	19°36	23° 9	11°31	0°17	0°55	24° 8	21°38	6°24	6°16	12°12	10°42	6°27	17° 1	W 7
T 8	13 5 46	18°20'35	1°Y23	22°30	12°43	0°14	1° 7	24°13	21°36	6°26	6°14	12°10	10°39	6°33	17° 5	T 8
F 9	13 9 43	19°19'25	13°11	21°49	13°55	0°13	1°19	24°18	21°34	6°27	6°13	12° 7	10°35	6°40	17° 8	F 9
S 10	13 13 39	20°18'12	25° 2	21° 7	15° 7	0°12	1°31	24°24	21°32	6°29	6°11	12° 1	10°32	6°47	17°12	S 10
S 11	13 17 36	21°16'57	6°B58	20°23	16°18	0°D11	1°43	24°29	21°30	6°31	6° 9	11°54	10°29	6°53	17°16	S 11
M12	13 21 32	22°15'40	19° 0	19°38	17°30	0°12	1°56	24°33	21°28	6°33	6° 8	11°47	10°26	7° 0	17°20	M12
T 13	13 25 29	23°14'22	1°II11	18°55	18°42	0°13	2° 8	24°38	21°26	6°34	6° 6	11°39	10°23	7° 7	17°23	T 13
W14	13 29 25	24°13'01	13°32	18°13	19°54	0°15	2°20	24°43	21°24	6°36	6° 5	11°33	10°20	7°13	17°27	W14
T 15	13 33 22	25°11'38	26° 5	17°32	21° 6	0°18	2°33	24°48	21°22	6°38	6° 3	11°27	10°16	7°20	17°31	T 15
F 16	13 37 19	26°10'13	8°B53	16°55	22°18	0°21	2°45	24°53	21°19	6°40	6° 2	11°24	10°13	7°27	17°34	F 16
S 17	13 41 15	27° 8'45	21°59	16°21	23°30	0°25	2°58	24°57	21°17	6°41	6° 0	11°D22	10°10	7°33	17°38	S 17
S 18	13 45 12	28° 7'16	5°D25	15°50	24°42	0°30	3°11	25° 2	21°15	6°43	5°59	11°22	10° 7	7°40	17°42	S 18
M19	13 49 8	29° 5'44	19°13	15°24	25°54	0°35	3°23	25° 6	21°13	6°45	5°57	11°23	10° 4	7°47	17°45	M19
T 20	13 53 5	0°B 4'10	3°M24	15° 2	27° 6	0°42	3°36	25°10	21°10	6°47	5°56	11°24	10° 0	7°53	17°49	T 20
W21	13 57 1	1° 2'34	17°58	14°45	28°18	0°48	3°49	25°15	21° 8	6°49	5°54	11°R24	9°57	8° 0	17°53	W21
T 22	14 0 58	2° 0'55	2°A51	14°32	29°30	0°56	4° 2	25°19	21° 6	6°51	5°53	11°23	9°54	8° 7	17°56	T 22
F 23	14 4 54	2°59'15	17°57	14°25	0°Y42	1° 4	4°14	25°23	21° 4	6°53	5°51	11°19	9°51	8°13	18° 0	F 23
S 24	14 8 51	3°57'33	3°M 7	14°D22	1°54	1°12	4°27	25°27	21° 1	6°55	5°50	11°13	9°48	8°20	18° 4	S 24
S 25	14 12 48	4°55'49	18°10	14°25	3° 7	1°22	4°40	25°31	20°59	6°56	5°48	11° 5	9°45	8°27	18° 7	S 25
M26	14 16 44	5°54'03	2°A58	14°32	4°19	1°32	4°53	25°35	20°56	6°58	5°47	10°56	9°41	8°33	18°11	M26
T 27	14 20 41	6°52'16	17°23	14°44	5°31	1°42	5° 6	25°39	20°54	7° 0	5°46	10°48	9°38	8°40	18°14	T 27
W28	14 24 37	7°50'27	1°B20	15° 1	6°43	1°53	5°20	25°43	20°52	7° 2	5°44	10°42	9°35	8°47	18°18	W28
T 29	14 28 34	8°48'37	14°47	15°22	7°55	2° 4	5°33	25°46	20°49	7° 4	5°43	10°37	9°32	8°53	18°22	T 29
F 30	14 32 30	9°B46'45	27°B47	15°Y48	9°Y 8	2°M17	5°II46	25°A50	20°M47	7°II 6	5°A42	10°H34	9°H29	9°Y 0	18°Y25	F 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	decl	lat
T 1	4n33	28s 7	4s47	12n52	3n17	10s42	0s50	14n14	3n14	19n34	0s35	14s43	1s 6	17s57	0n19	19n52	1s32	13n28	17n28	7s 2	7s27	4n17	7n39	1n12					
F 2	4 56	26 16	4 11	12 49	3 16	10 19	0 53	14 14	3 12	19 36	0 35	14 41	1 6	17 56	0 19	19 52	1 32	13 28	17 28	7 2	7 28	4 20	7 41	1 12					
S 3	5 19	23 10	3 24	12 41	3 13	9 55	0 56	14 14	3 9	19 39	0 34	14 40	1 6	17 56	0 19	19 53	1 32	13 29	17 28	7 1	7 29	4 24	7 42	1 12					
S 4	5 42	19 5	2 29	12 30	3 9	9 31	0 58	14 13	3 6	19 42	0 34	14 38	1 6	17 55	0 19	19 53	1 32	13 29	17 28	7 1	7 30	4 27	7 44	1 12					
M 5	6 4	14 18	1 28	12 15	3 4	9 6	1 1	14 13	3 4	19 44	0 34	14 36	1 7	17 55	0 19	19 53	1 32	13 30	17 28	7 0	7 32	4 30	7 45	1 12					
T 6	6 27	9 2	0 24	11 57	2 56	8 41	1 3	14 12	3 1	19 47	0 34	14 35	1 7	17 54	0 19	19 54	1 32	13 31	17 28	7 0	7 33	4 34	7 46	1 11					
W 7	6 50	3 30	0n40	11 36	2 48	8 16	1 6	14 10	2 59	19 50	0 34	14 33	1 7	17 54	0 19	19 54	1 32	13 31	17 28	7 0	7 34	4 37	7 48	1 11					
T 8	7 12	2n 7	1 43	11 12	2 38	7 51	1 8	14 9	2 56	19 52	0 34	14 31	1 7	17 53	0 19	19 54	1 32	13 32	17 28	7 0	7 35	4 41	7 49	1 11					
F 9	7 35	7 41	2 41	10 46	2 26	7 25	1 11	14 7	2 53	19 55	0 33	14 30	1 7	17 53	0 19	19 55	1 32	13 32	17 28	7 2	7 36	4 44	7 50	1 11					
S 10	7 57	12 59	3 32	10 18	2 13	7 0	1 13	14 5	2 51	19 57	0 33	14 28	1 7	17 52	0 19	19 55	1 32	13 33	17 28	7 4	7 38	4 47	7 52	1 11					
S 11	8 19	17 51	4 14	9 49	1 59	6 34	1 15	14 3	2 48	20 0	0 33	14 27	1 8	17 52	0 19	19 55	1 32	13 33	17 27	7 6	7 39	4 51	7 53	1 11					
M12	8 41	22 4	4 45	9 18	1 44	6 8	1 17	14 0	2 46	20 3	0 33	14 25	1 8	17 51	0 19	19 56	1 32	13 34	17 27	7 9	7 40	4 54	7 54	1 11					
T 13	9 3	25 23	5 4	8 47	1 29	5 41	1 19	13 57	2 43	20 5	0 33	14 24	1 8	17 51	0 19	19 56	1 32	13 34	17 27	7 12	7 41	4 57	7 56	1 11					
W14	9 24	27 34	5 9	8 16	1 13	5 15	1 21	13 54	2 41	20 8	0 33	14 22	1 8	17 50	0 19	19 56	1 32	13 35	17 27	7 15	7 42	5 1	7 57	1 11					
T 15	9 46	28 24	4 59	7 46	0 56	4 48	1 23	13 51	2 38	20 10	0 32	14 21	1 8	17 50	0 19	19 57	1 32	13 35	17 27	7 17	7 44	5 4	7 59	1 11					
F 16	10 7	27 45	4 35	7 16	0 39	4 21	1 24	13 48	2 36	20 13	0 32	14 19	1 8	17 49	0 19	19 57	1 32	13 36	17 27	7 18	7 45	5 7	8 0	1 11					
S 17	10 28	25 33	3 55	6 47	0 23	3 54	1 26	13 44	2 33	20 15	0 32	14 18	1 8	17 49	0 19	19 57	1 32	13 36	17 27	7 19	7 46	5 11	8 1	1 11					
S 18	10 49	21 53	3 2	6 20	0 6	3 27	1 28	13 40	2 31	20 18	0 32	14 17	1 9	17 48	0 19	19 58	1 32	13 37	17 26	7 19	7 47	5 14	8 3	1 11					
M19	11 10	16 56	1 57	5 54	0s11	3 0	1 29	13 36	2 28	20 21	0 32	14 15	1 9	17 47	0 19	19 58	1 32	13 37	17 26	7 18	7 48	5 18	8 4	1 11					
T 20	11 31	10 57	0 43	5 31	0 27	2 32	1 31	13 31	2 26	20 23	0 32	14 14	1 9	17 47	0 19	19 58	1 32	13 37	17 26	7 18	7 50	5 21	8 5	1 11					
W21	11 51	4 13	0s35	5 10	0 42	2 5	1 32	13 27	2 24	20 26	0 32	14 13	1 9	17 46	0 19	19 59	1 32	13 38	17 26	7 18	7 51	5 24	8 7	1 10					
T 22	12 12	2s52	1 53	4 51	0 57	1 37	1 33	13 22	2 21	20 28	0 31	14 11	1 9	17 46	0 19	19 59	1 32	13 38	17 25	7 19	7 52	5 28	8 8	1 10					
F 23	12 32	9 53	3 4	4 35	1 12	1 10	1 35	13 17	2 19	20 31	0 31	14 10	1 10	17 45	0 19	19 59	1 32	13 38	17 25	7 20	7 53	5 31	8 9	1 10					
S 24	12 51	16 21	4 1	4 22	1 25	0 42	1 36	13 11	2 17	20 33	0 31	14 9	1 10	17 44	0 19	20 0	1 31	13 39	17 25	7 22	7 55	5 34	8 11	1 10					
S 25	13 11	21 47	4 42	4 11	1 38	0 14	1 37	13 6	2 14	20 36	0 31	14 8	1 10	17 44	0 19	20 0	1 31	13 39	17 25	7 25	7 56	5 38	8 12	1 10					
M26	13 31	25 44	5 3	4 3	1 50	0n13	1 38	13 0	2 12	20 38	0 31	14 7	1 10	17 43	0 19	20 0	1 31	13 39	17 24	7 28	7 57	5 41	8 13	1 10					
T 27	13 50	27 55	5 4	3 57	2 2	0 41	1 39	12 54	2 10	20 41	0 31	14 6	1 10	17 43	0 19	20 1	1 31	13 40	17 24	7 32	7 58	5 44	8 15	1 10					
W28	14 9	28 15	4 47	3 54	2 12	1 9	1 39	12 48	2 7	20 43	0 31	14 4	1 10	17 42	0 19	20 1	1 31	13 40	17 24	7 34	7 59	5 48	8 16	1 10					
T 29	14 28	26 51	4 14	3 53	2 22	1 37	1 40	12 42	2 5	20 46	0 31	14 3	1 11	17 41	0 19	20 1	1 31	13 40	17 24	7 36	8 0	5 51	8 17	1 10					
F 30	14n46	24s 2	3s28	3n55	2s30	2n 5	1s41	12n36	2n 3	20n48	0s30	14s 2	1s11	17s41	0n19	20n 2	1s31	13n41	17n23	7s37	8s 2	5n54	8n19	1n10					

ASTRODIENST EPHEMERIS for the year 1728
geocentric

MAY 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 27	10♂44'52	10♂22	16♂17	10♂20	2♂29	5♂59	25♂53	20♂R44	7♂II 9	5♂R40	10♂D33	9♂H26	9♂Y 7	18♂Y29	S 1
S 2	14 40 23	11°42'57	22°38	16°51	11°32	2°42	6°13	25°57	20♂M42	7°11	5♂A39	10♂H34	9°22	9°13	18°32	S 2
M 3	14 44 20	12°41'01	4♂H39	17°29	12°45	2°56	6°26	26° 0	20°39	7°13	5°38	10°R35	9°19	9°20	18°36	M 3
T 4	14 48 17	13°39'04	16°30	18°11	13°57	3°10	6°39	26° 3	20°37	7°15	5°36	10°35	9°16	9°27	18°39	T 4
W 5	14 52 13	14°37'05	28°17	18°56	15° 9	3°25	6°53	26° 6	20°34	7°17	5°35	10°33	9°13	9°33	18°43	W 5
T 6	14 56 10	15°35'04	10♂Y 4	19°45	16°22	3°40	7° 6	26° 9	20°32	7°19	5°34	10°29	9°10	9°40	18°46	T 6
F 7	15 0 6	16°33'02	21°55	20°37	17°34	3°56	7°20	26°12	20°29	7°21	5°33	10°22	9° 6	9°47	18°49	F 7
S 8	15 4 3	17°30'59	3♂S1	21°33	18°46	4°12	7°33	26°15	20°27	7°23	5°32	10°13	9° 3	9°53	18°53	S 8
S 9	15 7 59	18°28'54	15°56	22°31	19°59	4°28	7°47	26°18	20°24	7°25	5°31	10° 2	9° 0	10° 0	18°56	S 9
M10	15 11 56	19°26'48	28°10	23°33	21°11	4°46	8° 0	26°21	20°22	7°27	5°29	9°50	8°57	10° 7	19° 0	M10
T 11	15 15 52	20°24'41	10♂II35	24°37	22°24	5° 3	8°14	26°23	20°19	7°30	5°28	9°37	8°54	10°13	19° 3	T 11
W12	15 19 49	21°22'32	23°10	25°45	23°36	5°21	8°27	26°26	20°17	7°32	5°27	9°26	8°51	10°20	19° 6	W12
T 13	15 23 46	22°20'21	5♂S56	26°55	24°49	5°39	8°41	26°28	20°14	7°34	5°26	9°17	8°47	10°27	19° 9	T 13
F 14	15 27 42	23°18'08	18°55	28° 8	26° 1	5°58	8°55	26°31	20°12	7°36	5°25	9°10	8°44	10°33	19°13	F 14
S 15	15 31 39	24°15'54	2♂L 7	29°23	27°14	6°17	9° 8	26°33	20° 9	7°38	5°24	9° 6	8°41	10°40	19°16	S 15
S 16	15 35 35	25°13'39	15°33	0♂B41	28°26	6°37	9°22	26°35	20° 7	7°41	5°23	9° 4	8°38	10°47	19°19	S 16
M17	15 39 32	26°11'21	29°16	2° 2	29°39	6°57	9°36	26°37	20° 4	7°43	5°23	9°D 4	8°35	10°53	19°22	M17
T 18	15 43 28	27° 9'02	13♂II17	3°25	0♂S51	7°17	9°50	26°39	20° 2	7°45	5°22	9°R 4	8°31	11° 0	19°25	T 18
W19	15 47 25	28° 6'41	27°35	4°50	2° 4	7°38	10° 3	26°41	19°59	7°47	5°21	9° 3	8°28	11° 7	19°28	W19
T 20	15 51 21	29° 4'19	12♂L 9	6°18	3°16	7°59	10°17	26°43	19°57	7°49	5°20	9° 0	8°25	11°13	19°32	T 20
F 21	15 55 18	0♂II 1'55	26°54	7°49	4°29	8°21	10°31	26°44	19°54	7°52	5°19	8°54	8°22	11°20	19°35	F 21
S 22	15 59 15	0°59'30	11♂L46	9°22	5°41	8°42	10°45	26°46	19°52	7°54	5°18	8°46	8°19	11°27	19°38	S 22
S 23	16 3 11	1°57'04	26°35	10°57	6°54	9° 5	10°58	26°47	19°49	7°56	5°18	8°36	8°16	11°33	19°41	S 23
M24	16 7 8	2°54'37	11♂A13	12°34	8° 7	9°27	11°12	26°49	19°47	7°58	5°17	8°25	8°12	11°40	19°43	M24
T 25	16 11 4	3°52'08	25°32	14°14	9°19	9°50	11°26	26°50	19°45	8° 1	5°16	8°14	8° 9	11°47	19°46	T 25
W26	16 15 1	4°49'38	9♂S27	15°57	10°32	10°13	11°40	26°51	19°42	8° 3	5°16	8° 4	8° 6	11°53	19°49	W26
T 27	16 18 57	5°47'08	22°56	17°41	11°44	10°37	11°54	26°52	19°40	8° 5	5°15	7°57	8° 3	12° 0	19°52	T 27
F 28	16 22 54	6°44'37	5♂S58	19°28	12°57	11° 0	12° 8	26°53	19°37	8° 7	5°14	7°52	8° 0	12° 7	19°55	F 28
S 29	16 26 51	7°42'04	18°36	21°18	14°10	11°24	12°22	26°54	19°35	8°10	5°14	7°50	7°57	12°13	19°58	S 29
S 30	16 30 47	8°39'31	0♂H53	23° 9	15°22	11°49	12°35	26°55	19°33	8°12	5°13	7°49	7°53	12°20	20° 0	S 30
M31	16 34 44	9♂II36'58	12♂H56	25♂S 3	16♂S35	12♂II13	12♂II49	26♂S56	19♂M30	8♂II14	5♂A13	7♂H49	7♂H50	12♂Y27	20♂Y 3	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	decl	lat
S 1	15n 4	20s 9	2s34	3n59	2s38	2n33	1s41	12n29	2n 1	20n51	0s30	14s 1	1s11	17s40	0n19	20n 2	1s31	13n41	17n23	7s37	8s 3	5n58	8n20	1n10			
S 2	15 22	15 29	1 35	4 5	2 45	3 1	1 42	12 22	1 59	20 53	0 30	14 0	1 11	17 39	0 19	20 3	1 31	13 41	17 23	7 37	8 4	6 1	8 21	1 10			
M 3	15 40	10 19	0 32	4 14	2 51	3 28	1 42	12 15	1 57	20 55	0 30	13 59	1 11	17 39	0 19	20 3	1 31	13 41	17 22	7 37	8 5	6 4	8 22	1 10			
T 4	15 58	4 51	0n32	4 25	2 57	3 56	1 42	12 8	1 55	20 58	0 30	13 58	1 11	17 38	0 19	20 3	1 31	13 41	17 22	7 37	8 6	6 8	8 24	1 10			
W 5	16 15	0n45	1 33	4 38	3 1	4 24	1 43	12 1	1 52	21 0	0 30	13 58	1 12	17 37	0 19	20 4	1 31	13 42	17 22	7 37	8 8	6 11	8 25	1 10			
T 6	16 32	6 18	2 30	4 53	3 5	4 52	1 43	11 53	1 50	21 3	0 30	13 57	1 12	17 37	0 19	20 4	1 31	13 42	17 21	7 39	8 9	6 14	8 26	1 10			
F 7	16 49	11 40	3 21	5 9	3 8	5 19	1 43	11 46	1 48	21 5	0 30	13 56	1 12	17 36	0 19	20 4	1 31	13 42	17 21	7 41	8 10	6 18	8 28	1 10			
S 8	17 5	16 39	4 4	5 28	3 10	5 47	1 43	11 38	1 46	21 7	0 29	13 55	1 12	17 35	0 19	20 5	1 31	13 42	17 21	7 45	8 11	6 21	8 29	1 10			
S 9	17 21	21 2	4 36	5 48	3 12	6 14	1 43	11 30	1 44	21 9	0 29	13 54	1 12	17 35	0 19	20 5	1 31	13 42	17 20	7 49	8 12	6 24	8 30	1 10			
M10	17 37	24 35	4 56	6 10	3 13	6 42	1 43	11 22	1 42	21 12	0 29	13 54	1 13	17 34	0 19	20 6	1 31	13 42	17 20	7 54	8 14	6 28	8 31	1 10			
T 11	17 53	27 2	5 2	6 34	3 13	7 9	1 42	11 14	1 40	21 14	0 29	13 53	1 13	17 33	0 19	20 6	1 31	13 42	17 20	7 58	8 15	6 31	8 32	1 9			
W12	18 8	28 11	4 53	6 59	3 12	7 36	1 42	11 5	1 38	21 16	0 29	13 52	1 13	17 33	0 19	20 6	1 31	13 42	17 19	8 3	8 16	6 34	8 34	1 9			
T 13	18 23	27 50	4 30	7 25	3 11	8 3	1 42	10 57	1 37	21 19	0 29	13 51	1 13	17 32	0 19	20 7	1 31	13 42	17 19	8 6	8 17	6 38	8 35	1 9			
F 14	18 38	25 59	3 53	7 53	3 9	8 29	1 41	10 48	1 35	21 21	0 29	13 51	1 13	17 31	0 19	20 7	1 31	13 42	17 18	8 9	8 18	6 41	8 36	1 9			
S 15	18 52	22 41	3 2	8 21	3 7	8 56	1 41	10 39	1 33	21 23	0 29	13 50	1 14	17 31	0 19	20 7	1 31	13 42	17 18	8 10	8 20	6 44	8 37	1 9			
S 16	19 6	18 8	2 1	8 52	3 4	9 22	1 40	10 30	1 31	21 25	0 29	13 50	1 14	17 30	0 19	20 8	1 31	13 42	17 18	8 11	8 21	6 48	8 38	1 9			
M17	19 20	12 33	0 52	9 23	3 0	9 49	1 40	10 21	1 29	21 27	0 28	13 49	1 14	17 29	0 18	20 8	1 31	13 42	17 17	8 11	8 22	6 51	8 40	1 9			
T 18	19 33	6 14	0s22	9 55	2 56	10 15	1 39	10 12	1 27	21 29	0 28	13 49	1 14	17 29	0 18	20 8	1 31	13 42	17 17	8 11	8 23	6 54	8 41	1 9			
W19	19 46	0s31	1 36	10 28	2 51	10 40	1 38	10 2	1 25	21 32	0 28	13 48	1 14	17 28	0 18	20 9	1 31	13 42	17 16	8 11	8 24	6 58	8 42	1 9			
T 20	19 59	7 21	2 45	11 2	2 45	11 6	1 37	9 53	1 24	21 34	0 28	13 48	1 15	17 27	0 18	20 9	1 31	13 42	17 16	8 12	8 26	7 1	8 43	1 9			
F 21	20 11	13 52	3 44	11 37	2 39	11 31	1 36	9 43	1 22	21 36	0 28	13 47	1 15	17 27	0 18	20 10	1 31	13 42	17 15	8 15	8 27	7 4	8 44	1 9			
S 22	20 23	19 38	4 28	12 13	2 33	11 56	1 35	9 33	1 20	21 38	0 28	13 47	1 15	17 26	0 18	20 10	1 31	13 42	17 15	8 18	8 28	7 7	8 45	1 9			
S 23	20 35	24 11	4 54	12 49	2 26	12 21	1 34	9 23	1 18	21 40	0 28	13 47	1 15	17 26	0 18	20 10	1 31	13 42	17 15	8 22	8 29	7 11	8 46	1 9			
M24	20 46	27 7	5 0	13 26	2 18	12 46	1 33	9 13	1 17	21 42	0 28	13 46	1 15	17 25	0 18	20 11	1 31	13 42	17 14	8 26	8 30	7 14	8 48	1 9			
T 25	20 57	28 11	4 47	14 4	2 10	13 10	1 32	9 3	1 15	21 44	0 28	13 46	1 16	17 24	0 18	20 11	1 31	13 42	17 14	8 30	8 31	7 17	8 49	1 9			
W26	21 8	27 25	4 17	14 42	2 2	13 34	1 31	8 53	1 13	21 46	0 28	13 46	1 16	17 24	0 18	20 11	1 31	13 41	17 13	8 33	8 33	7 21	8 50	1 9			
T 27	21 18	25 2	3 34	15 20	1 53	13 58	1 29	8 42	1 12	21 48	0 27	13 46	1 16	17 23	0 18	20 12	1 31	13 41	17 13	8 36	8 34	7 24	8 51	1 9			
F 28	21 28	21 24	2 40	15 58	1 44	14 21	1 28	8 32	1 10	21 50	0 27	13 46	1 16	17 22	0 18	20 12	1 31	13 41	17 12	8 38	8 35	7 27	8 52	1 9			
S 29	21 38	16 52	1 40	16 36	1 34	14 44	1 27	8 21	1 9	21 52	0 27	13 46	1 16	17 22	0 18	20 13	1 31	13 41	17 12	8 39	8 36	7 31	8 53	1 9			
S 30	21 47	11 45	0 37	17 14	1 24	15 7	1 25	8 10	1 7	21 54	0 27	13 45	1 17	17 21	0 18	20 13	1 31	13 41	17 11	8 39	8 37	7 34	8 54	1 9			
M31	21n56	6s18	0n27	17n52	1s14	15n29	1s24	8n 0	1n 5	21n55	0s27	13s45	1s17	17s20	0n18	20n13	1s31	13n40	17n11	8s39	8s39	7n37	8n55	1n 9			

ASTRODIENST EPHEMERIS for the year 1728

geocentric

JUNE 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 38 40	10 ^{II} 34'23	24 [♂] 49	27 [♂] 0	17 [♂] 48	12 [♂] 38	13 ^{II} 3	26 [♂] 56	19 [♂] 28	8 ^{II} 16	5 [♂] R12	7 [♂] R48	7 [♂] 47	12 [♂] Y33	20 [♂] Y 6	T 1
W 2	16 42 37	11 [♂] 31'48	6 [♂] Y37	28 [♂] 58	19 [♂] 1	13 [♂] 4	13 [♂] 17	26 [♂] 57	19 [♂] M.26	8 [♂] 19	5 [♂] 12	7 [♂] 46	7 [♂] 44	12 [♂] 40	20 [♂] 8	W 2
T 3	16 46 33	12 [♂] 29'12	18 [♂] 26	0 ^{II} 58	20 [♂] 13	13 [♂] 29	13 [♂] 31	26 [♂] 57	19 [♂] 24	8 [♂] 21	5 [♂] 11	7 [♂] 42	7 [♂] 41	12 [♂] 47	20 [♂] 11	T 3
F 4	16 50 30	13 [♂] 26'36	0 [♂] 21	3 [♂] 1	21 [♂] 26	13 [♂] 55	13 [♂] 45	26 [♂] 58	19 [♂] 21	8 [♂] 23	5 [♂] 11	7 [♂] 36	7 [♂] 37	12 [♂] 53	20 [♂] 14	F 4
S 5	16 54 26	14 [♂] 23'59	12 [♂] 24	5 [♂] 5	22 [♂] 39	14 [♂] 21	13 [♂] 59	26 [♂] 58	19 [♂] 19	8 [♂] 25	5 [♂] 11	7 [♂] 26	7 [♂] 34	13 [♂] 0	20 [♂] 16	S 5
S 6	16 58 23	15 [♂] 21'22	24 [♂] 38	7 [♂] 11	23 [♂] 52	14 [♂] 47	14 [♂] 13	26 [♂] 58	19 [♂] 17	8 [♂] 27	5 [♂] 10	7 [♂] 15	7 [♂] 31	13 [♂] 7	20 [♂] 19	S 6
M 7	17 2 19	16 [♂] 18'43	7 ^{II} 5	9 [♂] 19	25 [♂] 5	15 [♂] 14	14 [♂] 27	26 [♂] R58	19 [♂] 15	8 [♂] 30	5 [♂] 10	7 [♂] 2	7 [♂] 28	13 [♂] 13	20 [♂] 21	M 7
T 8	17 6 16	17 [♂] 16'04	19 [♂] 46	11 [♂] 28	26 [♂] 18	15 [♂] 41	14 [♂] 41	26 [♂] 58	19 [♂] 13	8 [♂] 32	5 [♂] 10	6 [♂] 49	7 [♂] 25	13 [♂] 20	20 [♂] 23	T 8
W 9	17 10 13	18 [♂] 13'25	2 [♂] 40	13 [♂] 38	27 [♂] 30	16 [♂] 8	14 [♂] 54	26 [♂] 58	19 [♂] 11	8 [♂] 34	5 [♂] 10	6 [♂] 37	7 [♂] 22	13 [♂] 27	20 [♂] 26	W 9
T 10	17 14 9	19 [♂] 10'45	15 [♂] 46	15 [♂] 48	28 [♂] 43	16 [♂] 35	15 [♂] 8	26 [♂] 57	19 [♂] 8	8 [♂] 36	5 [♂] 10	6 [♂] 27	7 [♂] 18	13 [♂] 33	20 [♂] 28	T 10
F 11	17 18 6	20 [♂] 8'04	29 [♂] 3	18 [♂] 0	29 [♂] 56	17 [♂] 3	15 [♂] 22	26 [♂] 57	19 [♂] 6	8 [♂] 39	5 [♂] 9	6 [♂] 20	7 [♂] 15	13 [♂] 40	20 [♂] 30	F 11
S 12	17 22 2	21 [♂] 5'22	12 [♂] 31	20 [♂] 12	1 ^{II} 9	17 [♂] 31	15 [♂] 36	26 [♂] 56	19 [♂] 4	8 [♂] 41	5 [♂] 9	6 [♂] 16	7 [♂] 12	13 [♂] 47	20 [♂] 33	S 12
S 13	17 25 59	22 [♂] 2'39	26 [♂] 10	22 [♂] 24	2 [♂] 22	17 [♂] 59	15 [♂] 50	26 [♂] 56	19 [♂] 2	8 [♂] 43	5 [♂] 9	6 [♂] 14	7 [♂] 9	13 [♂] 53	20 [♂] 35	S 13
M14	17 29 55	22 [♂] 59'55	9 [♂] Y58	24 [♂] 35	3 [♂] 35	18 [♂] 27	16 [♂] 4	26 [♂] 55	19 [♂] 1	8 [♂] 45	5 [♂] 9	6 [♂] D14	7 [♂] 6	14 [♂] 0	20 [♂] 37	M14
T 15	17 33 52	23 [♂] 57'11	23 [♂] 57	26 [♂] 46	4 [♂] 48	18 [♂] 56	16 [♂] 17	26 [♂] 54	18 [♂] 59	8 [♂] 47	5 [♂] D 9	6 [♂] R14	7 [♂] 3	14 [♂] 7	20 [♂] 39	T 15
W16	17 37 49	24 [♂] 54'25	8 [♂] 16	28 [♂] 57	6 [♂] 1	19 [♂] 25	16 [♂] 31	26 [♂] 54	18 [♂] 57	8 [♂] 50	5 [♂] 9	6 [♂] 13	6 [♂] 59	14 [♂] 13	20 [♂] 41	W16
T 17	17 41 45	25 [♂] 51'39	22 [♂] 24	1 [♂] 6	7 [♂] 14	19 [♂] 54	16 [♂] 45	26 [♂] 53	18 [♂] 55	8 [♂] 52	5 [♂] 9	6 [♂] 11	6 [♂] 56	14 [♂] 20	20 [♂] 43	T 17
F 18	17 45 42	26 [♂] 48'53	6 [♂] M.49	3 [♂] 15	8 [♂] 27	20 [♂] 23	16 [♂] 59	26 [♂] 52	18 [♂] 53	8 [♂] 54	5 [♂] 9	6 [♂] 6	6 [♂] 53	14 [♂] 27	20 [♂] 45	F 18
S 19	17 49 38	27 [♂] 46'05	21 [♂] 16	5 [♂] 21	9 [♂] 40	20 [♂] 52	17 [♂] 13	26 [♂] 50	18 [♂] 51	8 [♂] 56	5 [♂] 9	5 [♂] 59	6 [♂] 50	14 [♂] 33	20 [♂] 47	S 19
S 20	17 53 35	28 [♂] 43'17	5 [♂] Y40	7 [♂] 27	10 [♂] 53	21 [♂] 22	17 [♂] 26	26 [♂] 49	18 [♂] 50	8 [♂] 58	5 [♂] 10	5 [♂] 50	6 [♂] 47	14 [♂] 40	20 [♂] 49	S 20
M21	17 57 31	29 [♂] 40'29	19 [♂] 55	9 [♂] 31	12 [♂] 6	21 [♂] 52	17 [♂] 40	26 [♂] 48	18 [♂] 48	9 [♂] 0	5 [♂] 10	5 [♂] 40	6 [♂] 43	14 [♂] 47	20 [♂] 51	M21
T 22	18 1 28	0 [♂] 37'41	3 [♂] 56	11 [♂] 33	13 [♂] 19	22 [♂] 22	17 [♂] 54	26 [♂] 46	18 [♂] 46	9 [♂] 2	5 [♂] 10	5 [♂] 30	6 [♂] 40	14 [♂] 53	20 [♂] 52	T 22
W23	18 5 24	1 [♂] 34'52	17 [♂] 38	13 [♂] 33	14 [♂] 32	22 [♂] 52	18 [♂] 7	26 [♂] 45	18 [♂] 45	9 [♂] 5	5 [♂] 10	5 [♂] 21	6 [♂] 37	15 [♂] 0	20 [♂] 54	W23
T 24	18 9 21	2 [♂] 32'03	0 [♂] 58	15 [♂] 31	15 [♂] 45	23 [♂] 22	18 [♂] 21	26 [♂] 43	18 [♂] 43	9 [♂] 7	5 [♂] 10	5 [♂] 14	6 [♂] 34	15 [♂] 7	20 [♂] 56	T 24
F 25	18 13 18	3 [♂] 29'14	13 [♂] 56	17 [♂] 27	16 [♂] 58	23 [♂] 53	18 [♂] 35	26 [♂] 42	18 [♂] 41	9 [♂] 9	5 [♂] 11	5 [♂] 10	6 [♂] 31	15 [♂] 13	20 [♂] 57	F 25
S 26	18 17 14	4 [♂] 26'25	26 [♂] 32	19 [♂] 21	18 [♂] 11	24 [♂] 24	18 [♂] 48	26 [♂] 40	18 [♂] 40	9 [♂] 11	5 [♂] 11	5 [♂] 8	6 [♂] 28	15 [♂] 20	20 [♂] 59	S 26
S 27	18 21 11	5 [♂] 23'36	8 [♂] Y50	21 [♂] 13	19 [♂] 25	24 [♂] 55	19 [♂] 2	26 [♂] 38	18 [♂] 38	9 [♂] 13	5 [♂] 12	5 [♂] D 8	6 [♂] 24	15 [♂] 27	21 [♂] 1	S 27
M28	18 25 7	6 [♂] 20'47	20 [♂] 53	23 [♂] 4	20 [♂] 38	25 [♂] 26	19 [♂] 15	26 [♂] 36	18 [♂] 37	9 [♂] 15	5 [♂] 12	5 [♂] 8	6 [♂] 21	15 [♂] 33	21 [♂] 2	M28
T 29	18 29 4	7 [♂] 17'58	2 [♂] Y48	24 [♂] 52	21 [♂] 51	25 [♂] 57	19 [♂] 29	26 [♂] 34	18 [♂] 36	9 [♂] 17	5 [♂] 12	5 [♂] R 9	6 [♂] 18	15 [♂] 40	21 [♂] 3	T 29
W30	18 33 0	8 [♂] 15'09	14 [♂] Y38	26 [♂] 38	23 [♂] II 4	26 [♂] Y29	19 [♂] II42	26 [♂] 32	18 [♂] M.34	9 [♂] II19	5 [♂] 13	5 [♂] Y 9	6 [♂] Y15	15 [♂] Y47	21 [♂] Y 5	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	decl	lat
T 1	22n 4	0s42	1n29	18n29	1s 3	15n51	1s22	7n49	1n 4	21n57	0s27	13s45	1s17	17s20	0n18	20n14	1s31	13n40	17n10	8s39	8s40	7n40	8n56	1n 9			
W 2	22 12	4n52	2 26	19 6	0 53	16 13	1 21	7 37	1 2	21 59	0 27	13 45	1 17	17 19	0 18	20 14	1 31	13 40	17 10	8 40	8 41	7 44	8 57	1 9			
T 3	22 20	10 17	3 17	19 42	0 42	16 34	1 19	7 26	1 1	22 1	0 27	13 45	1 17	17 19	0 18	20 14	1 31	13 39	17 9	8 42	8 42	7 47	8 58	1 9			
F 4	22 27	15 21	4 0	20 17	0 31	16 55	1 17	7 15	0 59	22 3	0 27	13 46	1 18	17 18	0 18	20 15	1 31	13 39	17 9	8 44	8 43	7 50	8 59	1 9			
S 5	22 34	19 54	4 33	20 51	0 20	17 15	1 15	7 3	0 58	22 4	0 27	13 46	1 18	17 18	0 18	20 15	1 31	13 39	17 8	8 48	8 45	7 53	9 0	1 9			
S 6	22 40	23 42	4 53	21 24	0 9	17 35	1 13	6 52	0 56	22 6	0 26	13 46	1 18	17 17	0 18	20 15	1 31	13 38	17 8	8 52	8 46	7 57	9 0	1 9			
M 7	22 46	26 28	5 0	21 55	0n 2	17 54	1 12	6 40	0 55	22 8	0 26	13 46	1 18	17 16	0 18	20 16	1 31	13 38	17 7	8 57	8 47	8 0	9 1	1 9			
T 8	22 52	27 57	4 53	22 24	0 12	18 13	1 10	6 28	0 53	22 10	0 26	13 46	1 18	17 16	0 18	20 16	1 31	13 38	17 7	9 1	8 48	8 3	9 2	1 9			
W 9	22 57	27 57	4 30	22 51	0 23	18 32	1 8	6 17	0 52	22 11	0 26	13 46	1 19	17 15	0 18	20 16	1 31	13 37	17 6	9 6	8 49	8 7	9 3	1 9			
T 10	23 2	26 24	3 53	23 16	0 33	18 50	1 6	6 5	0 51	22 13	0 26	13 47	1 19	17 15	0 18	20 17	1 31	13 37	17 6	9 9	8 50	8 10	9 4	1 9			
F 11	23 7	23 22	3 3	23 39	0 43	19 8	1 4	5 53	0 49	22 14	0 26	13 47	1 19	17 14	0 18	20 17	1 31	13 37	17 5	9 12	8 52	8 13	9 5	1 9			
S 12	23 11	19 2	2 2	23 59	0 52	19 25	1 2	5 40	0 48	22 16	0 26	13 47	1 19	17 14	0 18	20 17	1 31	13 36	17 5	9 14	8 53	8 16	9 6	1 9			
S 13	23 14	13 39	0 53	24 16	1 1	19 42	1 0	5 28	0 46	22 18	0 26	13 48	1 19	17 13	0 18	20 18	1 31	13 36	17 4	9 14	8 54	8 20	9 6	1 9			
M14	23 17	7 32	0s20	24 31	1 9	19 58	0 57	5 16	0 45	22 19	0 26	13 48	1 20	17 13	0 18	20 18	1 31	13 35	17 4	9 14	8 55	8 23	9 7	1 9			
T 15	23 20	0 59	1 33	24 43	1 17	20 13	0 55	5 3	0 44	22 21	0 26	13 49	1 20	17 12	0 18	20 18	1 31	13 35	17 3	9 14	8 56	8 26	9 8	1 9			
W16	23 23	5s41	2 41	24 52	1 24	20 28	0 53	4 51	0 42	22 22	0 26	13 49	1 20	17 12	0 18	20 19	1 31	13 34	17 3	9 15	8 58	8 29	9 9	1 9			
T 17	23 25	12 7	3 39	24 59	1 30	20 43	0 51	4 38	0 41	22 24	0 26	13 50	1 20	17 11	0 18	20 19	1 31	13 34	17 2	9 15	8 59	8 33	9 10	1 9			
F 18	23 26	17 58	4 24	25 2	1 36	20 57	0 49	4 25	0 40	22 25	0 25	13 50	1 20	17 11	0 18	20 19	1 31	13 33	17 2	9 17	9 0	8 36	9 10	1 9			
S 19	23 27	22 48	4 53	25 3	1 41	21 10	0 46	4 13	0 38	22 26	0 25	13 51	1 21	17 10	0 18	20 20	1 31	13 33	17 1	9 20	9 1	8 39	9 11	1 9			
S 20	23 28	26 15	5 3	25 1	1 45	21 23	0 44	4 0	0 37	22 28	0 25	13 51	1 21	17 10	0 18	20 20	1 31	13 32	17 0	9 23	9 2	8 42	9 12	1 9			
M21	23 29	27 58	4 53	24 57	1 49	21 35	0 42	3 47	0 36	22 29	0 25	13 52	1 21	17 9	0 18	20 20	1 31	13 32	17 0	9 27	9 3	8 46	9 12	1 9			
T 22	23 29	27 52	4 27	24 49	1 51	21 47	0 39	3 34	0 35	22 30	0 25	13 53	1 21	17 9	0 18	20 21	1 31	13 31	16 59	9 31	9 5	8 49	9 13	1 9			
W23	23 28	26 2	3 45	24 40	1 53	21 58	0 37	3 21	0 33	22 32	0 25	13 53	1 21	17 8	0 18	20 21	1 31	13 30	16 59	9 34	9 6	8 52	9 14	1 9			
T 24	23 27	22 46	2 52	24 28	1 55	22 9	0 34	3 8	0 32	22 33	0 25	13 54	1 22	17 8	0 18	20 21	1 31	13 30	16 58	9 36	9 7	8 55	9 14	1 9			
F 25	23 26	18 26	1 51	24 14	1 55	22 18	0 32	2 54	0 31	22 34	0 25	13 55	1 22	17 8	0 18	20 22	1 31	13 29	16 58	9 38	9 8	8 59	9 15	1 9			
S 26	23 24	13 25	0 46	23 59	1 55	22 28	0 30	2 41	0 30	22 36	0 25	13 56	1 22	17 7	0 18	20 22	1 31	13 29	16 57	9 39	9 9	9 2	9 15	1 9			
S 27	23 22	7 58	0n20	23 41	1 54	22 36	0 27	2 28	0 28	22 37	0 25	13 57	1 22	17 7	0 18	20 22	1 31	13 28	16 57	9 39	9 10	9 5	9 16	1 9			
M28	23 19	2 20	1 23	23 21	1 53	22 44	0 25	2 14	0 27	22 38	0 25	13 57	1 22	17 6	0 18	20 22	1 31	13 27	16 56	9 38	9 12	9 8	9 17	1 9			
T 29	23 17	3n18	2 23	23 0	1 51	22 51	0 22	2 1	0 26	22 39	0 25	13 58	1 22	17 6	0 18	20 23	1 31	13 27	16 56	9 38	9 13	9 11	9 17	1 9			
W30	23n13	8n47	3n15	22n38	1n48	22n58	0s20	1n47	0n25	22n40	0s25	13s59	1s23	17s 6	0n18	20n23	1s31	13n26	16n55	9s38	9s14	9n15	9n18	1n 9			

ASTRODIENST EPHEMERIS for the year 1728
geocentric

JULY 1728

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 36 57	9 ⁵⁵ 12'21	26 ⁴ 30	28 ⁵² 21	24 ¹¹ 17	27 ¹⁰ 0	19 ¹¹ 56	26 ⁰ R29	18 ⁰ R33	9 ¹¹ 21	5 ¹³ 13	5 ⁰ R 7	6 ¹² 12	15 ⁵³ 53	21 ⁶ 6	T 1
F 2	18 40 53	10 ⁰ 9'33	8 ⁸ 27	0 ⁰ 3	25 ³¹	27 ³²	20 ⁰ 9	26 ²⁷ 27	18 ³² 32	9 ²³	5 ¹⁴	5 ⁴ 4	6 ⁰ 9	16 ⁰ 0	21 ⁰ 7	F 2
S 3	18 44 50	11 ⁰ 6'45	20 ³⁵	1 ⁴³	26 ⁴⁴	28 ⁰ 4	20 ²³	26 ²⁵	18 ³¹	9 ²⁵	5 ¹⁵	4 ⁵⁸	6 ⁰ 5	16 ⁰ 7	21 ⁰ 9	S 3
S 4	18 48 47	12 ⁰ 3'58	2 ¹¹ 56	3 ²⁰	27 ⁵⁷	28 ³⁷	20 ³⁶	26 ²²	18 ²⁹	9 ²⁷	5 ¹⁵	4 ⁵⁰	6 ⁰ 2	16 ¹⁴	21 ¹⁰	S 4
M 5	18 52 43	13 ⁰ 1'11	15 ³⁴	4 ⁵⁶	29 ¹¹	29 ⁰ 9	20 ⁴⁹	26 ²⁰	18 ²⁸	9 ²⁹	5 ¹⁶	4 ⁴²	5 ⁵⁹	16 ²⁰	21 ¹¹	M 5
T 6	18 56 40	13 ⁰ 58'25	28 ²⁹	6 ²⁹	0 ⁵² 24	29 ⁴²	21 ⁰ 3	26 ¹⁷	18 ²⁷	9 ³¹	5 ¹⁶	4 ³³	5 ⁵⁶	16 ²⁷	21 ¹²	T 6
W 7	19 0 36	14 ⁰ 55'38	11 ⁵⁴ 41	8 ⁰ 1	1 ³⁷	0 ¹⁴ 14	21 ¹⁶	26 ¹⁴	18 ²⁶	9 ³³	5 ¹⁷	4 ²⁴	5 ⁵³	16 ³⁴	21 ¹³	W 7
T 8	19 4 33	15 ⁰ 52'52	25 ⁰ 9	9 ³⁰	2 ⁵¹	0 ⁴⁷	21 ²⁹	26 ¹¹	18 ²⁵	9 ³⁵	5 ¹⁸	4 ¹⁸	5 ⁴⁹	16 ⁴⁰	21 ¹⁴	T 8
F 9	19 8 29	16 ⁰ 50'06	8 ⁰ 50	10 ⁵⁷	4 ⁰ 4	1 ²⁰	21 ⁴²	26 ⁰ 8	18 ²⁴	9 ³⁷	5 ¹⁹	4 ¹³	5 ⁴⁶	16 ⁴⁷	21 ¹⁵	F 9
S 10	19 12 26	17 ⁰ 47'20	22 ⁰ 42	12 ²²	5 ¹⁸	1 ⁵³	21 ⁵⁵	26 ⁰ 5	18 ²³	9 ³⁸	5 ²⁰	4 ¹¹	5 ⁴³	16 ⁵⁴	21 ¹⁶	S 10
S 11	19 16 23	18 ⁰ 44'34	6 ¹⁰ 42	13 ⁴⁴	6 ³¹	2 ²⁷	22 ⁰ 9	26 ⁰ 2	18 ²³	9 ⁴⁰	5 ²⁰	4 ⁰ D10	5 ⁴⁰	17 ⁰ 0	21 ¹⁷	S 11
M12	19 20 19	19 ⁰ 41'49	20 ⁴⁷	15 ⁰ 5	7 ⁴⁵	3 ⁰ 0	22 ²²	25 ⁵⁹	18 ²²	9 ⁴²	5 ²¹	4 ¹¹	5 ³⁷	17 ⁰ 7	21 ¹⁷	M12
T 13	19 24 16	20 ⁰ 39'03	4 ¹⁵ 56	16 ²³	8 ⁵⁸	3 ³⁴	22 ³⁵	25 ⁵⁶	18 ²¹	9 ⁴⁴	5 ²²	4 ¹²	5 ³⁴	17 ¹⁴	21 ¹⁸	T 13
W14	19 28 12	21 ⁰ 36'18	19 ⁰ 7	17 ³⁹	10 ¹²	4 ⁰ 8	22 ⁴⁸	25 ⁵³	18 ²⁰	9 ⁴⁶	5 ²³	4 ⁰ R13	5 ³⁰	17 ²⁰	21 ¹⁹	W14
T 15	19 32 9	22 ⁰ 33'32	3 ¹¹ 18	18 ⁵²	11 ²⁵	4 ⁴²	23 ⁰ 0	25 ⁵⁰	18 ²⁰	9 ⁴⁷	5 ²⁴	4 ¹²	5 ²⁷	17 ²⁷	21 ¹⁹	T 15
F 16	19 36 5	23 ⁰ 30'47	17 ²⁷	20 ⁰ 3	12 ³⁹	5 ¹⁶	23 ¹³	25 ⁴⁶	18 ¹⁹	9 ⁴⁹	5 ²⁵	4 ¹⁰	5 ²⁴	17 ³⁴	21 ²⁰	F 16
S 17	19 40 2	24 ⁰ 28'02	1 ¹⁷ 32	21 ¹²	13 ⁵²	5 ⁵⁰	23 ²⁶	25 ⁴³	18 ¹⁸	9 ⁵¹	5 ²⁶	4 ⁰ 6	5 ²¹	17 ⁴⁰	21 ²⁰	S 17
S 18	19 43 58	25 ⁰ 25'18	15 ³⁰	22 ¹⁷	15 ⁰ 6	6 ²⁴	23 ³⁹	25 ³⁹	18 ¹⁸	9 ⁵³	5 ²⁷	4 ⁰ 1	5 ¹⁸	17 ⁴⁷	21 ²¹	S 18
M19	19 47 55	26 ⁰ 22'34	29 ¹⁹	23 ²⁰	16 ²⁰	6 ⁵⁹	23 ⁵¹	25 ³⁶	18 ¹⁸	9 ⁵⁴	5 ²⁸	3 ⁵⁵	5 ¹⁵	17 ⁵⁴	21 ²¹	M19
T 20	19 51 52	27 ⁰ 19'50	12 ³⁵ 4	24 ²¹	17 ³³	7 ³³	24 ⁰ 4	25 ³²	18 ¹⁷	9 ⁵⁶	5 ²⁹	3 ⁵⁰	5 ¹¹	18 ⁰ 0	21 ²¹	T 20
W21	19 55 48	28 ⁰ 17'07	26 ¹⁴	25 ¹⁸	18 ⁴⁷	8 ⁰ 8	24 ¹⁷	25 ²⁸	18 ¹⁷	9 ⁵⁸	5 ³⁰	3 ⁴⁵	5 ⁰ 8	18 ⁰ 7	21 ²²	W21
T 22	19 59 45	29 ⁰ 14'25	9 ¹⁷ 17	26 ¹²	20 ⁰ 1	8 ⁴³	24 ²⁹	25 ²⁴	18 ¹⁷	9 ⁵⁹	5 ³²	3 ⁴¹	5 ⁰ 5	18 ¹⁴	21 ²²	T 22
F 23	20 3 41	0 ⁰ 11'43	22 ⁰ 3	27 ⁰ 4	21 ¹⁴	9 ¹⁸	24 ⁴²	25 ²¹	18 ¹⁶	10 ⁰ 1	5 ³³	3 ³⁹	5 ⁰ 2	18 ²⁰	21 ²²	F 23
S 24	20 7 38	1 ⁰ 9'02	4 ¹ 32	27 ⁵²	22 ²⁸	9 ⁵³	24 ⁵⁴	25 ¹⁷	18 ¹⁶	10 ⁰ 2	5 ³⁴	3 ⁰ D38	4 ⁵⁹	18 ²⁷	21 ²²	S 24
S 25	20 11 34	2 ⁰ 6'22	16 ⁴⁶	28 ³⁶	23 ⁴²	10 ²⁹	25 ⁰ 6	25 ¹³	18 ¹⁶	10 ⁰ 4	5 ³⁵	3 ³⁹	4 ⁵⁵	18 ³⁴	21 ²²	S 25
M26	20 15 31	3 ⁰ 3'43	28 ⁴⁸	29 ¹⁷	24 ⁵⁶	11 ⁰ 4	25 ¹⁹	25 ⁰ 9	18 ¹⁶	10 ⁰ 5	5 ³⁷	3 ⁴⁰	4 ⁵²	18 ⁴⁰	21 ²²	M26
T 27	20 19 27	4 ⁰ 1'05	10 ¹ 42	29 ⁵⁴	26 ⁰ 9	11 ⁴⁰	25 ³¹	25 ⁰ 5	18 ⁰ D16	10 ⁰ 7	5 ³⁸	3 ⁴²	4 ⁴⁹	18 ⁴⁷	21 ²²	T 27
W28	20 23 24	4 ⁰ 58'28	22 ³³	0 ¹⁰ 27	27 ²³	12 ¹⁵	25 ⁴³	25 ⁰ 1	18 ¹⁶	10 ⁰ 8	5 ³⁹	3 ⁴⁴	4 ⁴⁶	18 ⁵⁴	21 ²²	W28
T 29	20 27 21	5 ⁰ 55'52	4 ⁸ 25	0 ⁵⁶	28 ³⁷	12 ⁵¹	25 ⁵⁵	24 ⁵⁷	18 ¹⁶	10 ¹⁰	5 ⁴¹	3 ⁰ R44	4 ⁴³	19 ⁰ 1	21 ²²	T 29
F 30	20 31 17	6 ⁰ 53'17	16 ²⁴	1 ²¹	29 ⁵¹	13 ²⁷	26 ⁰ 7	24 ⁵²	18 ¹⁶	10 ¹¹	5 ⁴²	3 ⁴⁴	4 ⁴⁰	19 ⁰ 7	21 ²¹	F 30
S 31	20 35 14	7 ⁰ 50'44	28 ⁸ 33	1 ¹⁰ 41	1 ⁰ 5	14 ¹⁵ 3	26 ¹¹ 19	24 ¹⁵ 48	18 ¹⁶	10 ¹¹ 13	5 ⁴⁴	3 ⁴ 42	4 ³⁶	19 ¹⁴	21 ²⁰	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n 9	13n57	4n 0	22n14	1n44	23n 4	0s17	1n33	0n24	22n41	0s24	14s 0	1s23	17s 5	0n18	20n23	1s31	13n25	16n55	9s39	9s15	9n18	9n18	1n 8
F 2	23 5	18 40	4 34	21 48	1 40	23 9	0 15	1 20	0 23	22 42	0 24	14 1	1 23	17 5	0 18	20 24	1 31	13 25	16 54	9 40	9 16	9 21	9 18	1 8
S 3	23 1	22 41	4 57	21 22	1 36	23 14	0 12	1 6	0 21	22 43	0 24	14 2	1 23	17 5	0 18	20 24	1 31	13 24	16 54	9 42	9 18	9 24	9 19	1 8
S 4	22 56	25 47	5 6	20 55	1 31	23 18	0 10	0 52	0 20	22 44	0 24	14 3	1 23	17 4	0 18	20 24	1 31	13 23	16 53	9 45	9 19	9 28	9 19	1 8
M 5	22 50	27 41	5 1	20 26	1 25	23 21	0 7	0 38	0 19	22 45	0 24	14 4	1 24	17 4	0 18	20 24	1 31	13 22	16 53	9 48	9 20	9 31	9 20	1 8
T 6	22 45	28 8	4 40	19 57	1 19	23 24	0 5	0 24	0 18	22 46	0 24	14 5	1 24	17 4	0 18	20 25	1 31	13 22	16 52	9 52	9 21	9 34	9 20	1 8
W 7	22 38	27 1	4 4	19 27	1 12	23 26	0 2	0 10	0 17	22 47	0 24	14 6	1 24	17 4	0 18	20 25	1 31	13 21	16 52	9 55	9 22	9 37	9 21	1 8
T 8	22 32	24 19	3 14	18 57	1 5	23 27	0n 0	0s 4	0 16	22 48	0 24	14 8	1 24	17 3	0 18	20 25	1 31	13 20	16 51	9 57	9 23	9 40	9 21	1 8
F 9	22 25	20 12	2 12	18 26	0 58	23 27	0 3	0 18	0 15	22 49	0 24	14 9	1 24	17 3	0 18	20 25	1 31	13 19	16 50	9 59	9 25	9 44	9 21	1 8
S 10	22 18	14 56	1 2	17 55	0 50	23 27	0 5	0 33	0 14	22 50	0 24	14 10	1 24	17 3	0 18	20 26	1 31	13 19	16 50	10 0	9 26	9 47	9 22	1 8
S 11	22 10	8 51	0s14	17 23	0 41	23 26	0 7	0 47	0 13	22 51	0 24	14 11	1 25	17 3	0 17	20 26	1 31	13 18	16 49	10 0	9 27	9 50	9 22	1 8
M12	22 2	2 18	1 29	16 51	0 32	23 25	0 10	1 1	0 12	22 52	0 24	14 12	1 25	17 2	0 17	20 26	1 31	13 17	16 49	9 59	9 28	9 53	9 22	1 8
T 13	21 53	4s23	2 39	16 19	0 23	23 23	0 12	1 15	0 11	22 53	0 24	14 14	1 25	17 2	0 17	20 26	1 31	13 16	16 48	9 59	9 29	9 56	9 22	1 8
W14	21 44	10 52	3 39	15 47	0 13	23 20	0 15	1 30	0 10	22 53	0 24	14 15	1 25	17 2	0 17	20 27	1 31	13 15	16 48	9 59	9 30	9 59	9 23	1 8
T 15	21 35	16 48	4 26	15 15	0 3	23 16	0 17	1 44	0 8	22 54	0 23	14 16	1 25	17 2	0 17	20 27	1 31	13 15	16 47	9 59	9 32	10 3	9 23	1 8
F 16	21 26	21 48	4 57	14 43	0s 7	23 12	0 19	1 59	0 7	22 55	0 23	14 17	1 25	17 2	0 17	20 27	1 31	13 14	16 47	10 0	9 33	10 6	9 23	1 8
S 17	21 16	25 33	5 10	14 11	0 18	23 7	0 22	2 13	0 6	22 56	0 23	14 19	1 26	17 2	0 17	20 27	1 31	13 13	16 46	10 1	9 34	10 9	9 23	1 8
S 18	21 5	27 43	5 4	13 39	0 29	23 1	0 24	2 28	0 5	22 56	0 23	14 20	1 26	17 2	0 17	20 28	1 31	13 12	16 46	10 3	9 35	10 12	9 23	1 8
M19	20 55	28 9	4 40	13 8	0 40	22 55	0 26	2 42	0 4	22 57	0 23	14 21	1 26	17 2	0 17	20 28	1 31	13 11	16 45	10 5	9 36	10 15	9 23	1 8
T 20	20 44	26 51	4 1	12 37	0 51	22 48	0 29	2 57	0 3	22 57	0 23	14 23	1 26	17 1	0 17	20 28	1 31	13 10	16 45	10 7	9 37	10 19	9 24	1 8
W21	20 32	24 2	3 10	12 7	1 3	22 40	0 31	3 12	0 2	22 58	0 23	14 24	1 26	17 1	0 17	20 28	1 32	13 9	16 44	10 9	9 39	10 22	9 24	1 8
T 22	20 20	20 2	2 9	11 37	1 15	22 32	0 33	3 26	0 1	22 59	0 23	14 26	1 26	17 1	0 17	20 28	1 32	13 8	16 44	10 10	9 40	10 25	9 24	1 8
F 23	20 8	15 10	1 3	11 9	1 27	22 23	0 35	3 41	0 1	22 59	0 23	14 27	1 27	17 1	0 17	20 29	1 32	13 8	16 44	10 11	9 41	10 28	9 24	1 8
S 24	19 56	9 47	0n 5	10 41	1 40	22 13	0 38	3 56	0s 0	23 0	0 23	14 29	1 27	17 1	0 17	20 29	1 32	13 7	16 43	10 11	9 42	10 31	9 24	1 8
S 25	19 43	4 9	1 11	10 14	1 52	22 3	0 40	4 11	0 1	23 0	0 23	14 30	1 27	17 1	0 17	20 29	1 32	13 6	16 43	10 11	9 43	10 34	9 24	1 8
M26	19 30	1n34	2 13	9 48	2 4	21 52	0 42	4 25	0 2	23 1	0 23	14 31	1 27	17 1	0 17	20 29	1 32	13 5	16 42	10 11	9 44	10 37	9 24	1 8
T 27	19 17	7 9	3 9	9 23	2 17	21 40	0 44	4 40	0 3	23 1	0 23	14 33	1 27	17 1	0 17	20 29	1 32	13 4	16 42	10 10	9 46	10 41	9 24	1 8
W28	19 3	12 27	3 57	9 0	2 30	21 28	0 46	4 55	0 4	23 2	0 23	14 34	1 27	17 1	0 17	20 30	1 32	13 3	16 41	10 9	9 47	10 44	9 24	1 8
T 29	18 49	17 18	4 34	8 38	2 42	21 15	0 48	5 10	0 5	23 2	0 23	14 36	1 27	17 1	0 17	20 30	1 32	13 2	16 41	10 9	9 48	10 47	9 24	1 8
F 30	18 35	21 33	5 0	8 18	2 54	21 1	0 50	5 25	0 6	23 3	0 23	14 37	1 27	17 1	0 17	20 30	1 32	13 1	16 40	10 9	9 49	10 50	9 23	1 8
S 31	18n20	24n57	5n13	7n59	3s 7	20n47	0n52	5s40	0s 7	23n 3	0s22	14s39	1s28	17s 1	0n17	20n30	1s32	13n 0	16n40	10s10	9s50	10n53	9n23	1n 8

ASTRODIENST EPHEMERIS for the year 1728

geocentric

AUGUST 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 39 10	8♂48'12	10♂57	1♂56	2♂19	14♂40	26♂31	24°R44	18♂16	10♂14	5♂45	3°R40	4♂33	19°Y21	21°R21	S 1
M 2	20 43 7	9°45'41	23°40	2° 7	3°33	15°16	26°43	24°40	18°17	10°15	5°46	3°36	4°30	19°27	21°Y20	M 2
T 3	20 47 3	10°43'11	6♂43	2°13	4°47	15°52	26°55	24°36	18°17	10°17	5°48	3°33	4°27	19°34	21°20	T 3
W 4	20 51 0	11°40'43	20° 8	2°R13	6° 1	16°29	27° 6	24°31	18°17	10°18	5°50	3°30	4°24	19°41	21°19	W 4
T 5	20 54 56	12°38'16	3♂53	2° 8	7°15	17° 6	27°18	24°27	18°18	10°19	5°51	3°27	4°21	19°47	21°19	T 5
F 6	20 58 53	13°35'49	17°56	1°58	8°29	17°42	27°29	24°22	18°18	10°20	5°53	3°26	4°17	19°54	21°18	F 6
S 7	21 2 50	14°33'24	2♂14	1°42	9°43	18°19	27°41	24°18	18°19	10°22	5°54	3°D25	4°14	20° 1	21°18	S 7
S 8	21 6 46	15°31'00	16°40	1°21	10°57	18°56	27°52	24°14	18°19	10°23	5°56	3°25	4°11	20° 7	21°17	S 8
M 9	21 10 43	16°28'37	1♂10	0°54	12°11	19°34	28° 3	24° 9	18°20	10°24	5°58	3°26	4° 8	20°14	21°16	M 9
T 10	21 14 39	17°26'15	15°38	0°23	13°25	20°11	28°15	24° 5	18°21	10°25	5°59	3°27	4° 5	20°21	21°15	T 10
W11	21 18 36	18°23'54	0♂ 2	29♂46	14°39	20°48	28°26	24° 0	18°22	10°26	6° 1	3°28	4° 1	20°27	21°14	W11
T 12	21 22 32	19°21'34	14°17	29° 6	15°53	21°26	28°37	23°56	18°22	10°27	6° 3	3°R29	3°58	20°34	21°13	T 12
F 13	21 26 29	20°19'15	28°21	28°21	17° 8	22° 4	28°48	23°51	18°23	10°28	6° 4	3°29	3°55	20°41	21°12	F 13
S 14	21 30 25	21°16'57	12♂12	27°33	18°22	22°41	28°58	23°47	18°24	10°29	6° 6	3°28	3°52	20°48	21°11	S 14
S 15	21 34 22	22°14'40	25°50	26°43	19°36	23°19	29° 9	23°42	18°25	10°30	6° 8	3°27	3°49	20°54	21°10	S 15
M16	21 38 19	23°12'24	9♂15	25°51	20°50	23°57	29°20	23°38	18°26	10°31	6°10	3°26	3°46	21° 1	21° 9	M16
T 17	21 42 15	24°10'10	22°25	24°58	22° 4	24°35	29°30	23°33	18°27	10°32	6°12	3°25	3°42	21° 8	21° 8	T 17
W18	21 46 12	25° 7'56	5♂21	24° 6	23°19	25°13	29°41	23°29	18°28	10°33	6°14	3°24	3°39	21°14	21° 7	W18
T 19	21 50 8	26° 5'44	18° 4	23°15	24°33	25°52	29°51	23°24	18°29	10°34	6°15	3°23	3°36	21°21	21° 5	T 19
F 20	21 54 5	27° 3'34	0♂33	22°27	25°47	26°30	0♂ 1	23°20	18°31	10°35	6°17	3°D23	3°33	21°28	21° 4	F 20
S 21	21 58 1	28° 1'24	12°50	21°43	27° 2	27° 8	0°12	23°15	18°32	10°35	6°19	3°23	3°30	21°34	21° 3	S 21
S 22	22 1 58	28°59'17	24°57	21° 3	28°16	27°47	0°22	23°11	18°33	10°36	6°21	3°23	3°27	21°41	21° 1	S 22
M23	22 5 54	29°57'11	6°Y56	20°28	29°30	28°26	0°32	23° 6	18°34	10°37	6°23	3°23	3°23	21°48	21° 0	M23
T 24	22 9 51	0♂55'07	18°48	20° 0	0♂45	29° 5	0°41	23° 2	18°36	10°38	6°25	3°24	3°20	21°54	20°58	T 24
W25	22 13 48	1°53'04	0♂39	19°39	1°59	29°43	0°51	22°57	18°37	10°38	6°27	3°24	3°17	22° 1	20°57	W25
T 26	22 17 44	2°51'03	12°30	19°26	3°13	0♂22	1° 1	22°53	18°39	10°39	6°29	3°24	3°14	22° 8	20°55	T 26
F 27	22 21 41	3°49'05	24°28	19°D20	4°28	1° 1	1°10	22°48	18°40	10°39	6°31	3°R24	3°11	22°14	20°53	F 27
S 28	22 25 37	4°47'08	6♂35	19°23	5°42	1°41	1°20	22°44	18°42	10°40	6°33	3°D24	3° 7	22°21	20°51	S 28
S 29	22 29 34	5°45'13	18°58	19°34	6°57	2°20	1°29	22°40	18°44	10°41	6°35	3°24	3° 4	22°28	20°50	S 29
M30	22 33 30	6°43'20	1♂39	19°54	8°11	2°59	1°38	22°35	18°45	10°41	6°37	3°24	3° 1	22°35	20°48	M30
T 31	22 37 27	7♂41'30	14♂42	20♂22	9♂26	3♂39	1♂47	22°31	18♂47	10♂41	6♂39	3♂25	2♂58	22°Y41	20°Y46	T 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
S 1	18n 5	27n15	5n11	7n42	3s19	20n33	0n54	5s54	0s 8	23n 3	0s22	14s41	1s28	17s 1	0n17	20n30	1s32	12n59	16n40	10s11	9s51	10n56	9n23	1n 8			
M 2	17 50	28 14	4 55	7 28	3 30	20 17	0 55	6 9	0 9	23 4	0 22	14 42	1 28	17 2	0 17	20 30	1 32	12 58	16 39	10 12	9 52	10 59	9 23	1 8			
T 3	17 34	27 41	4 23	7 15	3 42	20 1	0 57	6 24	0 10	23 4	0 22	14 44	1 28	17 2	0 17	20 30	1 32	12 57	16 39	10 13	9 54	11 3	9 23	1 8			
W 4	17 19	25 32	3 36	7 5	3 52	19 45	0 59	6 39	0 11	23 4	0 22	14 45	1 28	17 2	0 17	20 31	1 32	12 56	16 38	10 14	9 55	11 6	9 23	1 8			
T 5	17 3	21 50	2 36	6 57	4 2	19 28	1 0	6 54	0 11	23 5	0 22	14 47	1 28	17 2	0 17	20 31	1 32	12 55	16 38	10 15	9 56	11 9	9 22	1 8			
F 6	16 46	16 49	1 24	6 52	4 12	19 10	1 2	7 9	0 12	23 5	0 22	14 48	1 28	17 2	0 17	20 31	1 32	12 54	16 37	10 16	9 57	11 12	9 22	1 8			
S 7	16 29	10 48	0 7	6 50	4 20	18 52	1 4	7 24	0 13	23 5	0 22	14 50	1 28	17 2	0 17	20 31	1 32	12 53	16 37	10 16	9 58	11 15	9 22	1 8			
S 8	16 13	4 10	1s13	6 50	4 28	18 33	1 5	7 39	0 14	23 6	0 22	14 51	1 29	17 3	0 17	20 31	1 32	12 52	16 37	10 16	9 59	11 18	9 22	1 8			
M 9	15 55	2s43	2 27	6 53	4 34	18 14	1 7	7 54	0 15	23 6	0 22	14 53	1 29	17 3	0 17	20 31	1 32	12 51	16 36	10 16	10 1	11 21	9 21	1 8			
T 10	15 38	9 26	3 33	7 0	4 39	17 54	1 8	8 8	0 16	23 6	0 22	14 55	1 29	17 3	0 17	20 31	1 32	12 50	16 36	10 15	10 2	11 24	9 21	1 8			
W11	15 20	15 37	4 24	7 9	4 43	17 34	1 10	8 23	0 16	23 6	0 22	14 56	1 29	17 3	0 17	20 32	1 32	12 49	16 36	10 15	10 3	11 28	9 21	1 8			
T 12	15 2	20 54	4 59	7 21	4 45	17 14	1 11	8 38	0 17	23 6	0 22	14 58	1 29	17 3	0 17	20 32	1 32	12 48	16 35	10 15	10 4	11 31	9 20	1 8			
F 13	14 44	24 56	5 15	7 36	4 46	16 52	1 12	8 53	0 18	23 7	0 22	14 59	1 29	17 4	0 17	20 32	1 32	12 47	16 35	10 15	10 5	11 34	9 20	1 8			
S 14	14 26	27 27	5 13	7 53	4 44	16 31	1 13	9 8	0 19	23 7	0 22	15 1	1 29	17 4	0 17	20 32	1 32	12 46	16 34	10 15	10 6	11 37	9 19	1 8			
S 15	14 7	28 17	4 53	8 13	4 41	16 8	1 14	9 23	0 20	23 7	0 22	15 3	1 29	17 4	0 17	20 32	1 32	12 45	16 34	10 15	10 8	11 40	9 19	1 8			
M16	13 48	27 25	4 17	8 36	4 36	15 46	1 16	9 38	0 21	23 7	0 22	15 4	1 29	17 5	0 17	20 32	1 33	12 44	16 34	10 16	10 9	11 43	9 18	1 8			
T 17	13 29	25 2	3 28	9 0	4 29	15 23	1 17	9 52	0 21	23 7	0 22	15 6	1 29	17 5	0 17	20 32	1 33	12 43	16 33	10 16	10 10	11 46	9 18	1 8			
W18	13 10	21 22	2 29	9 25	4 20	14 59	1 18	10 7	0 22	23 7	0 21	15 7	1 29	17 5	0 17	20 32	1 33	12 42	16 33	10 17	10 11	11 49	9 18	1 7			
T 19	12 50	16 46	1 24	9 52	4 9	14 36	1 19	10 22	0 23	23 7	0 21	15 9	1 29	17 5	0 17	20 32	1 33	12 41	16 33	10 17	10 12	11 52	9 17	1 7			
F 20	12 31	11 32	0 16	10 19	3 57	14 11	1 19	10 36	0 24	23 7	0 21	15 10	1 30	17 6	0 17	20 32	1 33	12 40	16 32	10 17	10 13	11 55	9 16	1 7			
S 21	12 11	5 57	0n52	10 46	3 43	13 47	1 20	10 51	0 24	23 7	0 21	15 12	1 30	17 6	0 17	20 32	1 33	12 39	16 32	10 17	10 14	11 58	9 16	1 7			
S 22	11 51	0 13	1 57	11 13	3 28	13 22	1 21	11 6	0 25	23 7	0 21	15 13	1 30	17 7	0 16	20 32	1 33	12 38	16 32	10 17	10 16	12 1	9 15	1 7			
M23	11 30	5n26	2 56	11 40	3 11	12 56	1 22	11 20	0 26	23 7	0 21	15 15	1 30	17 7	0 16	20 33	1 33	12 37	16 32	10 17	10 17	12 5	9 15	1 7			
T 24	11 10	10 52	3 46	12 5	2 54	12 30	1 22	11 35	0 27	23 7	0 21	15 17	1 30	17 7	0 16	20 33	1 33	12 36	16 31	10 17	10 18	12 8	9 14	1 7			
W25	10 49	15 53	4 27	12 28	2 36	12 4	1 23	11 49	0 27	23 7	0 21	15 18	1 30	17 8	0 16	20 33	1 33	12 35	16 31	10 16	10 19	12 11	9 14	1 7			
T 26	10 28	20 19	4 56	12 50	2 18	11 38	1 23	12 4	0 28	23 7	0 21	15 20	1 30	17 8	0 16	20 33	1 33	12 34	16 31	10 16	10 20	12 14	9 13	1 7			
F 27	10 7	23 58	5 13	13 9	1 59	11 11	1 24	12 18	0 29	23 7	0 21	15 21	1 30	17 9	0 16	20 33	1 33	12 33	16 30	10 16	10 21	12 17	9 12	1 7			
S 28	9 46	26 39	5 17	13 26	1 41	10 44	1 24	12 32	0 30	23 7	0 21	15 23	1 30	17 9	0 16	20 33	1 33	12 32	16 30	10 16	10 22	12 20	9 12	1 7			
S 29	9 25	28 6	5 6	13 40	1 22	10 17	1 24	12 47	0 30	23 7	0 21	15 24	1 30	17 10	0 16	20 33	1 33	12 31	16 30	10 16	10 24	12 23	9 11	1 7			
M30	9 3	28 8	4 40	13 52	1 4	9 49	1 25	13 1	0 31	23 7	0 21	15 25	1 30	17 10	0 16	20 33	1 33	12 30	16 30	10 16	10 25	12 26	9 10	1 7			
T 31	8n42	26n37	3n59	13n59	0s46	9n21	1n25	13s15	0s32	23n 7	0s21	15s27	1s30	17s11	0n16	20n33	1s33	12n29	16n29	10s16	10s26	12n29	9n 9	1n 7			

ASTRODIENST EPHEMERIS for the year 1728
geocentric

SEPTEMBER 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 41 23	8 ^m 39'41	28 ^o 10	20 ^o 59	10 ^m 40	4 ^m 19	1 ^o 56	22°R27	18 ^m 49	10 ^{II} 42	6 ^o 42	3 ^h 25	2 ^h 55	22 ^o 48	20°R44	W 1
T 2	22 45 20	9°37'54	12 ^o 3	21°44	11°55	4°58	2° 5	22 ^o 23	18°51	10°42	6°44	3°26	2°52	22°55	20°Y42	T 2
F 3	22 49 17	10°36'08	26°20	22°36	13° 9	5°38	2°14	22°18	18°52	10°43	6°46	3°R26	2°48	23° 1	20°40	F 3
S 4	22 53 13	11°34'25	10 ^m 56	23°36	14°24	6°18	2°22	22°14	18°54	10°43	6°48	3°26	2°45	23° 8	20°38	S 4
S 5	22 57 10	12°32'43	25°46	24°43	15°38	6°58	2°31	22°10	18°56	10°43	6°50	3°26	2°42	23°15	20°36	S 5
M 6	23 1 6	13°31'04	10 ^{II} 41	25°56	16°53	7°38	2°39	22° 6	18°58	10°44	6°52	3°25	2°39	23°21	20°34	M 6
T 7	23 5 3	14°29'25	25°35	27°16	18° 8	8°18	2°47	22° 2	19° 0	10°44	6°55	3°23	2°36	23°28	20°32	T 7
W 8	23 8 59	15°27'49	10 ^m 19	28°40	19°22	8°59	2°55	21°58	19° 2	10°44	6°57	3°22	2°33	23°35	20°30	W 8
T 9	23 12 56	16°26'14	24°47	0 ^m 10	20°37	9°39	3° 3	21°54	19° 5	10°44	6°59	3°21	2°29	23°41	20°27	T 9
F 10	23 16 52	17°24'41	8 ^h 56	1°44	21°51	10°19	3°11	21°50	19° 7	10°44	7° 1	3°20	2°26	23°48	20°25	F 10
S 11	23 20 49	18°23'09	22°45	3°22	23° 6	11° 0	3°18	21°46	19° 9	10°44	7° 3	3°D20	2°23	23°55	20°23	S 11
S 12	23 24 46	19°21'39	6 ^h 13	5° 2	24°21	11°41	3°26	21°43	19°11	10°44	7° 6	3°21	2°20	24° 2	20°21	S 12
M13	23 28 42	20°20'11	19°21	6°46	25°35	12°21	3°33	21°39	19°14	10°R44	7° 8	3°22	2°17	24° 8	20°18	M13
T 14	23 32 39	21°18'44	2 ^h 33	8°32	26°50	13° 2	3°40	21°35	19°16	10°44	7°10	3°23	2°13	24°15	20°16	T 14
W15	23 36 35	22°17'19	14°49	10°19	28° 5	13°43	3°47	21°32	19°18	10°44	7°12	3°25	2°10	24°22	20°13	W15
T 16	23 40 32	23°15'56	27°13	12° 7	29°19	14°24	3°54	21°28	19°21	10°44	7°15	3°R25	2° 7	24°28	20°11	T 16
F 17	23 44 28	24°14'34	9 ^h 27	13°57	0 ^{II} 34	15° 5	4° 1	21°25	19°23	10°44	7°17	3°25	2° 4	24°35	20° 8	F 17
S 18	23 48 25	25°13'14	21°32	15°47	1°49	15°47	4° 8	21°22	19°26	10°44	7°19	3°24	2° 1	24°42	20° 6	S 18
S 19	23 52 21	26°11'57	3 ^h 31	17°38	3° 3	16°28	4°14	21°18	19°28	10°44	7°22	3°22	1°58	24°48	20° 3	S 19
M20	23 56 18	27°10'41	15°25	19°29	4°18	17° 9	4°20	21°15	19°31	10°44	7°24	3°19	1°54	24°55	20° 1	M20
T 21	0 0 14	28° 9'27	27°16	21°19	5°33	17°51	4°26	21°12	19°33	10°43	7°26	3°15	1°51	25° 2	19°58	T 21
W22	0 4 11	29° 8'16	9 ^h 6	23°10	6°47	18°32	4°32	21° 9	19°36	10°43	7°29	3°10	1°48	25° 8	19°56	W22
T 23	0 8 8	0 ^{II} 7'07	20°59	25° 0	8° 2	19°14	4°38	21° 6	19°39	10°43	7°31	3° 6	1°45	25°15	19°53	T 23
F 24	0 12 4	1° 6'00	2 ^{II} 56	26°50	9°17	19°56	4°44	21° 3	19°42	10°43	7°33	3° 2	1°42	25°22	19°50	F 24
S 25	0 16 1	2° 4'55	15° 3	28°39	10°32	20°37	4°49	21° 0	19°44	10°42	7°36	3° 0	1°38	25°29	19°48	S 25
S 26	0 19 57	3° 3'53	27°22	0 ^{II} 27	11°46	21°19	4°55	20°57	19°47	10°42	7°38	2°58	1°35	25°35	19°45	S 26
M27	0 23 54	4° 2'53	9 ^h 58	2°15	13° 1	22° 1	5° 0	20°54	19°50	10°41	7°40	2°D58	1°32	25°42	19°42	M27
T 28	0 27 50	5° 1'55	22°55	4° 2	14°16	22°43	5° 5	20°52	19°53	10°41	7°43	2°59	1°29	25°49	19°39	T 28
W29	0 31 47	6° 0'59	6 ^h 17	5°48	15°31	23°25	5°10	20°49	19°56	10°40	7°45	3° 1	1°26	25°55	19°37	W29
T 30	0 35 43	7 ^h 0'06	20 ^o 6	7 ^h 33	16 ^h 45	24 ^m 8	5 ^h 14	20 ^h 47	19 ^m 59	10 ^{II} 40	7 ^h 47	3 ^h 2	1 ^h 23	26 ^h 2	19 ^h 34	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	decl lat	decl lat	decl lat
W 1	8n20	23n33 3n 3	14n 4	0s29	8n53	1n25	13s29	0s32	23n 7	0s21	15s28	1s30	17s11	0n16	20n33	1s33
T 2	7 58	19 4	1 56	14 5	0 13	8 25	1 25	13 43	0 33	23 7	0 21	15 30	1 30	17 12	0 16	20 33
F 3	7 36	13 23	0 39	14 3	0n 3	7 56	1 25	13 57	0 34	23 7	0 21	15 31	1 30	17 12	0 16	20 33
S 4	7 14	6 50	0s41	13 57	0 17	7 27	1 25	14 11	0 35	23 7	0 21	15 32	1 30	17 13	0 16	20 33
S 5	6 52	0s10	2 1	13 47	0 31	6 58	1 25	14 25	0 35	23 7	0 21	15 34	1 30	17 13	0 16	20 33
M 6	6 29	7 11	3 12	13 34	0 43	6 29	1 24	14 39	0 36	23 7	0 20	15 35	1 30	17 14	0 16	20 33
T 7	6 7	13 47	4 10	13 18	0 55	5 59	1 24	14 52	0 37	23 6	0 20	15 37	1 30	17 14	0 16	20 33
W 8	5 44	19 32	4 51	12 58	1 5	5 30	1 24	15 6	0 37	23 6	0 20	15 38	1 30	17 15	0 16	20 33
T 9	5 22	24 3	5 13	12 35	1 14	5 0	1 23	15 19	0 38	23 6	0 20	15 39	1 30	17 16	0 16	20 33
F 10	4 59	27 0	5 15	12 10	1 22	4 30	1 23	15 33	0 38	23 6	0 20	15 40	1 30	17 16	0 16	20 33
S 11	4 36	28 15	4 58	11 41	1 29	4 0	1 22	15 46	0 39	23 6	0 20	15 42	1 30	17 17	0 16	20 33
S 12	4 13	27 45	4 26	11 9	1 35	3 30	1 22	15 59	0 40	23 6	0 20	15 43	1 30	17 18	0 16	20 33
M13	3 50	25 42	3 40	10 36	1 40	3 0	1 21	16 13	0 40	23 6	0 20	15 44	1 30	17 18	0 16	20 33
T 14	3 27	22 22	2 44	10 0	1 44	2 29	1 20	16 26	0 41	23 6	0 20	15 45	1 30	17 19	0 16	20 33
W15	3 4	18 1	1 41	9 22	1 47	1 59	1 19	16 39	0 42	23 5	0 20	15 46	1 30	17 20	0 16	20 33
T 16	2 41	12 59	0 34	8 42	1 49	1 28	1 19	16 51	0 42	23 5	0 20	15 47	1 30	17 20	0 16	20 32
F 17	2 17	7 32	0n33	8 1	1 50	0 58	1 18	17 4	0 43	23 5	0 20	15 49	1 30	17 21	0 16	20 32
S 18	1 54	1 51	1 38	7 19	1 51	0 27	1 17	17 17	0 43	23 5	0 20	15 50	1 30	17 22	0 16	20 32
S 19	1 31	3n49	2 38	6 35	1 50	0s 4	1 16	17 29	0 44	23 5	0 20	15 51	1 30	17 22	0 16	20 32
M20	1 7	9 19	3 31	5 51	1 49	0 34	1 15	17 42	0 45	23 5	0 20	15 52	1 30	17 23	0 16	20 32
T 21	0 44	14 27	4 14	5 6	1 48	1 5	1 13	17 54	0 45	23 4	0 20	15 53	1 30	17 24	0 16	20 32
W22	0 21	19 4	4 46	4 20	1 45	1 36	1 12	18 6	0 46	23 4	0 20	15 54	1 30	17 24	0 16	20 32
T 23	0s 3	22 57	5 6	3 34	1 43	2 6	1 11	18 18	0 46	23 4	0 20	15 55	1 30	17 25	0 16	20 32
F 24	0 26	25 54	5 13	2 47	1 39	2 37	1 10	18 30	0 47	23 4	0 20	15 55	1 30	17 26	0 16	20 32
S 25	0 50	27 42	5 6	2 0	1 36	3 8	1 8	18 42	0 47	23 4	0 19	15 56	1 30	17 27	0 16	20 32
S 26	1 13	28 12	4 45	1 13	1 32	3 38	1 7	18 53	0 48	23 4	0 19	15 57	1 30	17 28	0 16	20 32
M27	1 37	27 16	4 10	0 26	1 27	4 9	1 5	19 5	0 49	23 4	0 19	15 58	1 30	17 28	0 16	20 32
T 28	2 0	24 50	3 22	0s21	1 22	4 39	1 4	19 16	0 49	23 3	0 19	15 59	1 30	17 29	0 16	20 31
W29	2 24	21 0	2 21	1 8	1 17	5 10	1 2	19 27	0 50	23 3	0 19	16 0	1 30	17 30	0 16	20 31
T 30	2s47	15n55	1n10	1s54	1n12	5s40	1n 0	19s39	0s50	23n 3	0s19	16s 0	1s30	17s31	0n16	20n31

Julian Day Number = 2352442.5, Delta T = 11.02 sec
Ecliptic obliquity = 23°28'37", Nutation = 0°00'09", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°57'09", Lahiri = 20°04'09"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1728
geocentric

OCTOBER 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 39 40	7♂59'15	4♂22	9♂18	18♂0	24♂50	5♂19	20°R45	20♂2	10°R39	7♂50	3°R 3	1♂19	26°Y 9	19°R31	F 1
S 2	0 43 37	8°58'27	19° 4	11° 2	19°15	25°32	5°23	20°42	20° 5	10°II39	7°52	3°X 2	1°16	26°15	19°Y28	S 2
S 3	0 47 33	9°57'40	4♂5	12°45	20°30	26°15	5°27	20°40	20° 8	10°38	7°54	2°59	1°13	26°22	19°25	S 3
M 4	0 51 30	10°56'56	19°18	14°27	21°44	26°57	5°31	20°38	20°11	10°37	7°57	2°55	1°10	26°29	19°23	M 4
T 5	0 55 26	11°56'13	4♂32	16° 9	22°59	27°40	5°35	20°36	20°14	10°37	7°59	2°49	1° 7	26°36	19°20	T 5
W 6	0 59 23	12°55'33	19°36	17°50	24°14	28°23	5°39	20°34	20°17	10°36	8° 1	2°43	1° 4	26°42	19°17	W 6
T 7	1 3 19	13°54'54	4♂23	19°29	25°29	29° 6	5°42	20°32	20°20	10°35	8° 4	2°37	1° 0	26°49	19°14	T 7
F 8	1 7 16	14°54'18	18°45	21° 9	26°44	29°49	5°45	20°31	20°23	10°35	8° 6	2°33	0°57	26°56	19°11	F 8
S 9	1 11 12	15°53'43	2♂40	22°47	27°58	0♂32	5°48	20°29	20°27	10°34	8° 8	2°30	0°54	27° 2	19° 8	S 9
S 10	1 15 9	16°53'10	16° 8	24°25	29°13	1°15	5°51	20°28	20°30	10°33	8°11	2°D30	0°51	27° 9	19° 5	S 10
M 11	1 19 6	17°52'38	29°11	26° 2	0♂28	1°58	5°54	20°26	20°33	10°32	8°13	2°30	0°48	27°16	19° 3	M 11
T 12	1 23 2	18°52'09	11♂53	27°38	1°43	2°41	5°56	20°25	20°36	10°31	8°15	2°31	0°44	27°22	19° 0	T 12
W 13	1 26 59	19°51'41	24°18	29°14	2°58	3°24	5°58	20°24	20°40	10°30	8°18	2°33	0°41	27°29	18°57	W 13
T 14	1 30 55	20°51'14	6♂29	0♂49	4°12	4° 8	6° 0	20°22	20°43	10°29	8°20	2°R33	0°38	27°36	18°54	T 14
F 15	1 34 52	21°50'50	18°32	2°24	5°27	4°51	6° 2	20°21	20°46	10°28	8°22	2°31	0°35	27°43	18°51	F 15
S 16	1 38 48	22°50'28	0°Y28	3°57	6°42	5°34	6° 4	20°20	20°50	10°27	8°25	2°28	0°32	27°49	18°48	S 16
S 17	1 42 45	23°50'07	12°21	5°31	7°57	6°18	6° 5	20°20	20°53	10°26	8°27	2°21	0°29	27°56	18°45	S 17
M 18	1 46 41	24°49'48	24°12	7° 3	9°12	7° 2	6° 7	20°19	20°57	10°25	8°29	2°13	0°25	28° 3	18°43	M 18
T 19	1 50 38	25°49'32	6♂3	8°35	10°26	7°45	6° 8	20°18	21° 0	10°24	8°31	2° 3	0°22	28° 9	18°40	T 19
W 20	1 54 35	26°49'17	17°56	10° 7	11°41	8°29	6° 9	20°18	21° 3	10°23	8°34	1°52	0°19	28°16	18°37	W 20
T 21	1 58 31	27°49'05	29°53	11°38	12°56	9°13	6° 9	20°17	21° 7	10°22	8°36	1°41	0°16	28°23	18°34	T 21
F 22	2 2 28	28°48'55	11♂54	13° 8	14°11	9°57	6°10	20°17	21°10	10°21	8°38	1°32	0°13	28°29	18°31	F 22
S 23	2 6 24	29°48'46	24° 3	14°38	15°26	10°41	6°10	20°17	21°14	10°19	8°40	1°24	0°10	28°36	18°28	S 23
S 24	2 10 21	0♂48'41	6♂23	16° 7	16°40	11°25	6°R10	20°17	21°17	10°18	8°43	1°18	0° 6	28°43	18°26	S 24
M 25	2 14 17	1°48'37	18°57	17°36	17°55	12° 9	6°10	20°D17	21°21	10°17	8°45	1°15	0° 3	28°50	18°23	M 25
T 26	2 18 14	2°48'35	1♂48	19° 4	19°10	12°53	6°10	20°17	21°25	10°16	8°47	1°D14	29♂59	28°56	18°20	T 26
W 27	2 22 10	3°48'36	15° 1	20°32	20°25	13°38	6° 9	20°17	21°28	10°15	8°49	1°15	29°57	29° 3	18°17	W 27
T 28	2 26 7	4°48'39	28°39	21°59	21°40	14°22	6° 9	20°17	21°32	10°13	8°51	1°R15	29°54	29°10	18°15	T 28
F 29	2 30 4	5°48'44	12♂44	23°25	22°54	15° 6	6° 8	20°18	21°35	10°12	8°53	1°15	29°50	29°16	18°12	F 29
S 30	2 34 0	6°48'51	27°16	24°51	24° 9	15°51	6° 7	20°18	21°39	10°11	8°56	1°12	29°47	29°23	18° 9	S 30
S 31	2 37 57	7♂49'00	12♂12	26♂16	25♂24	16♂35	6♂5	20°19	21♂43	10°II 9	8♂58	1♂7	29°44	29°Y30	18°Y 6	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	3s10	9n49	0s 7	2s41	1n 6	6s10	0n59	19s49	0s51	23n 3	0s19	16s 1	1s30	17s32	0n16	20n31	1s35	11n58	16n26	10s24	11s 1	14n 2	8n40	1n 5	
S 2	3 34	3 1	1 26	3 27	1 0	6 40	0 57	20 0	0 51	23 3	0 19	16 2	1 30	17 32	0 16	20 31	1 35	11 58	16 26	10 25	11 2	14 5	8 38	1 5	
S 3	3 57	4s 5	2 41	4 13	0 54	7 10	0 55	20 11	0 52	23 3	0 19	16 2	1 30	17 33	0 16	20 31	1 35	11 57	16 26	10 26	11 4	14 8	8 37	1 5	
M 4	4 20	11 2	3 45	4 58	0 48	7 40	0 53	20 21	0 52	23 3	0 19	16 3	1 30	17 34	0 16	20 31	1 35	11 56	16 26	10 27	11 5	14 10	8 36	1 5	
T 5	4 44	17 20	4 33	5 43	0 42	8 9	0 51	20 31	0 53	23 3	0 19	16 4	1 29	17 35	0 16	20 31	1 35	11 55	16 26	10 29	11 6	14 13	8 35	1 5	
W 6	5 7	22 30	5 2	6 27	0 36	8 39	0 50	20 42	0 53	23 3	0 19	16 4	1 29	17 36	0 16	20 30	1 35	11 54	16 26	10 31	11 7	14 16	8 34	1 5	
T 7	5 30	26 7	5 9	7 12	0 29	9 8	0 48	20 52	0 54	23 3	0 19	16 5	1 29	17 37	0 16	20 30	1 35	11 53	16 26	10 33	11 8	14 19	8 33	1 5	
F 8	5 53	27 56	4 57	7 55	0 22	9 37	0 46	21 1	0 54	23 2	0 19	16 5	1 29	17 37	0 16	20 30	1 35	11 52	16 27	10 35	11 9	14 22	8 31	1 5	
S 9	6 16	27 55	4 28	8 38	0 16	10 6	0 44	21 11	0 55	23 2	0 19	16 6	1 29	17 38	0 15	20 30	1 35	11 52	16 27	10 36	11 10	14 25	8 30	1 5	
S 10	6 39	26 13	3 45	9 20	0 9	10 34	0 41	21 20	0 55	23 2	0 19	16 6	1 29	17 39	0 15	20 30	1 35	11 51	16 27	10 36	11 11	14 28	8 29	1 5	
M11	7 1	23 8	2 50	10 2	0 2	11 2	0 39	21 29	0 55	23 2	0 19	16 6	1 29	17 40	0 15	20 30	1 35	11 50	16 27	10 36	11 13	14 31	8 28	1 5	
T 12	7 24	19 0	1 49	10 44	0s 5	11 30	0 37	21 39	0 56	23 2	0 18	16 7	1 29	17 41	0 15	20 29	1 35	11 49	16 27	10 35	11 14	14 34	8 27	1 5	
W13	7 47	14 9	0 44	11 24	0 12	11 58	0 35	21 47	0 56	23 2	0 18	16 7	1 29	17 42	0 15	20 29	1 35	11 48	16 27	10 35	11 15	14 37	8 26	1 5	
T 14	8 9	8 49	0n21	12 4	0 19	12 26	0 33	21 56	0 57	23 2	0 18	16 7	1 29	17 43	0 15	20 29	1 35	11 48	16 27	10 35	11 16	14 40	8 24	1 4	
F 15	8 32	3 14	1 25	12 43	0 25	12 53	0 30	22 4	0 57	23 2	0 18	16 8	1 29	17 44	0 15	20 29	1 35	11 47	16 27	10 36	11 17	14 42	8 23	1 4	
S 16	8 54	2n24	2 24	13 22	0 32	13 20	0 28	22 13	0 58	23 2	0 18	16 8	1 29	17 45	0 15	20 29	1 35	11 46	16 27	10 37	11 18	14 45	8 22	1 4	
S 17	9 16	7 54	3 17	14 0	0 39	13 46	0 26	22 21	0 58	23 2	0 18	16 8	1 29	17 45	0 15	20 29	1 35	11 45	16 28	10 39	11 19	14 48	8 21	1 4	
M18	9 38	13 7	4 1	14 37	0 46	14 13	0 23	22 29	0 58	23 2	0 18	16 8	1 29	17 46	0 15	20 28	1 35	11 45	16 28	10 42	11 20	14 51	8 20	1 4	
T 19	10 0	17 52	4 34	15 13	0 53	14 39	0 21	22 36	0 59	23 2	0 18	16 8	1 29	17 47	0 15	20 28	1 35	11 44	16 28	10 46	11 22	14 54	8 19	1 4	
W20	10 21	21 56	4 56	15 49	0 59	15 4	0 19	22 44	0 59	23 2	0 18	16 9	1 28	17 48	0 15	20 28	1 35	11 43	16 28	10 50	11 23	14 57	8 17	1 4	
T 21	10 43	25 6	5 4	16 23	1 6	15 29	0 16	22 51	1 0	23 2	0 18	16 9	1 28	17 49	0 15	20 28	1 35	11 43	16 28	10 53	11 24	15 0	8 16	1 4	
F 22	11 4	27 12	4 59	16 57	1 12	15 54	0 14	22 58	1 0	23 2	0 18	16 9	1 28	17 50	0 15	20 28	1 35	11 42	16 29	10 57	11 25	15 3	8 15	1 4	
S 23	11 25	28 2	4 41	17 30	1 18	16 18	0 11	23 5	1 0	23 2	0 18	16 9	1 28	17 51	0 15	20 27	1 35	11 41	16 29	11 0	11 26	15 5	8 14	1 4	
S 24	11 46	27 29	4 10	18 2	1 25	16 42	0 9	23 11	1 1	23 2	0 18	16 9	1 28	17 52	0 15	20 27	1 35	11 41	16 29	11 2	11 27	15 8	8 13	1 4	
M25	12 7	25 32	3 26	18 34	1 31	17 6	0 6	23 18	1 1	23 2	0 18	16 8	1 28	17 53	0 15	20 27	1 35	11 40	16 29	11 3	11 28	15 11	8 12	1 3	
T 26	12 28	22 14	2 30	19 4	1 37	17 29	0 4	23 24	1 1	23 3	0 17	16 8	1 28	17 54	0 15	20 27	1 36	11 39	16 29	11 3	11 29	15 14	8 11	1 3	
W27	12 48	17 43	1 25	19 33	1 42	17 51	0 1	23 30	1 2	23 3	0 17	16 8	1 28	17 55	0 15	20 27	1 36	11 39	16 30	11 3	11 30	15 17	8 9	1 3	
T 28	13 9	12 11	0 14	20 2	1 48	18 14	0s 1	23 35	1 2	23 3	0 17	16 8	1 28	17 56	0 15	20 26	1 36	11 38	16 30	11 3	11 32	15 20	8 8	1 3	
F 29	13 29	5 51	1s 1	20 29	1 53	18 35	0 4	23 41	1 2	23 3	0 17	16 8	1 28	17 57	0 15	20 26	1 36	11 38	16 30	11 3	11 33	15 22	8 7	1 3	
S 30	13 49	0s58	2 14	20 56	1 59	18 56	0 6	23 46	1 3	23 3	0 17	16 8	1 28	17 58	0 15	20 26	1 36	11 37	16 30	11 4	11 34	15 25	8 6	1 3	
S 31	14s 8	7s53	3s19	21s21	2s 4	19s17	0s 9	23s51	1s 3	23n 3	0s17	16s 7	1s28	17s59	0n15	20n26	1s36	11n36	16n31	11s 6	11s35	15n28	8n 5	1n 3	

ASTRODIENST EPHEMERIS for the year 1728
geocentric

DECEMBER 1728

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 40 10	9♂ 6'34	6♂ 0	16°R27	4♂ 0	10♂ 6	3°R53	21♂27	23♂37	9°R20	9♂54	27°R35	28♂ 6	2♂58	17°R 0	W 1
T 2	4 44 6	10° 7'31	20°56	15♂14	5°15	10°52	3♂46	21°31	23°41	9♂18	9°55	27°24	28° 2	3° 4	16°Y58	T 2
F 3	4 48 3	11° 8'29	5♂33	13°54	6°30	11°39	3°39	21°35	23°44	9°17	9°57	27°14	27°59	3°11	16°57	F 3
S 4	4 52 0	12° 9'28	19°43	12°32	7°44	12°25	3°32	21°39	23°48	9°15	9°58	27° 6	27°56	3°18	16°56	S 4
S 5	4 55 56	13°10'28	3♂25	11° 9	8°59	13°12	3°25	21°43	23°51	9°13	9°59	27° 2	27°53	3°25	16°54	S 5
M 6	4 59 53	14°11'28	16°39	9°49	10°13	13°58	3°17	21°47	23°55	9°12	10° 0	26°59	27°50	3°31	16°53	M 6
T 7	5 3 49	15°12'29	29°26	8°33	11°28	14°45	3°10	21°51	23°59	9°10	10° 2	26°D59	27°47	3°38	16°52	T 7
W 8	5 7 46	16°13'30	11♂35	7°25	12°43	15°31	3° 2	21°55	24° 2	9° 8	10° 3	26°R59	27°43	3°45	16°51	W 8
T 9	5 11 42	17°14'32	24° 0	6°26	13°57	16°18	2°55	22° 0	24° 6	9° 6	10° 4	26°59	27°40	3°51	16°50	T 9
F 10	5 15 39	18°15'34	5♂58	5°37	15°12	17° 4	2°47	22° 4	24° 9	9° 5	10° 5	26°57	27°37	3°58	16°49	F 10
S 11	5 19 36	19°16'37	17°49	5° 0	16°26	17°51	2°40	22° 9	24°13	9° 3	10° 6	26°53	27°34	4° 5	16°48	S 11
S 12	5 23 32	20°17'40	29°39	4°33	17°41	18°38	2°32	22°13	24°16	9° 1	10° 8	26°47	27°31	4°12	16°47	S 12
M13	5 27 29	21°18'44	11♂31	4°17	18°55	19°25	2°24	22°18	24°19	9° 0	10° 9	26°38	27°28	4°18	16°46	M13
T 14	5 31 25	22°19'49	23°29	4°D12	20° 9	20°11	2°16	22°22	24°23	8°58	10°10	26°26	27°24	4°25	16°45	T 14
W15	5 35 22	23°20'53	5♂35	4°17	21°24	20°58	2° 8	22°27	24°26	8°56	10°11	26°14	27°21	4°32	16°44	W15
T 16	5 39 18	24°21'59	17°50	4°31	22°38	21°45	2° 0	22°32	24°30	8°55	10°12	26° 2	27°18	4°38	16°44	T 16
F 17	5 43 15	25°23'05	0♂15	4°53	23°53	22°32	1°52	22°37	24°33	8°53	10°13	25°50	27°15	4°45	16°43	F 17
S 18	5 47 11	26°24'11	12°50	5°23	25° 7	23°19	1°44	22°42	24°36	8°52	10°14	25°41	27°12	4°52	16°42	S 18
S 19	5 51 8	27°25'18	25°36	5°59	26°21	24° 6	1°36	22°47	24°40	8°50	10°14	25°34	27° 8	4°59	16°42	S 19
M20	5 55 5	28°26'25	8♂32	6°42	27°36	24°53	1°28	22°52	24°43	8°48	10°15	25°30	27° 5	5° 5	16°41	M20
T 21	5 59 1	29°27'33	21°40	7°30	28°50	25°40	1°20	22°57	24°46	8°47	10°16	25°D29	27° 2	5°12	16°41	T 21
W22	6 2 58	0♂28'41	5♂ 0	8°23	0♂ 4	26°27	1°12	23° 3	24°49	8°45	10°17	25°29	26°59	5°19	16°41	W22
T 23	6 6 54	1°29'50	18°34	9°20	1°18	27°14	1° 3	23° 8	24°52	8°44	10°18	25°30	26°56	5°25	16°40	T 23
F 24	6 10 51	2°31'00	2♂22	10°20	2°33	28° 1	0°55	23°14	24°56	8°42	10°18	25°R31	26°53	5°32	16°40	F 24
S 25	6 14 47	3°32'10	16°26	11°24	3°47	28°48	0°47	23°19	24°59	8°41	10°19	25°30	26°49	5°39	16°40	S 25
S 26	6 18 44	4°33'20	0♂45	12°31	5° 1	29°35	0°39	23°25	25° 2	8°39	10°20	25°27	26°46	5°46	16°40	S 26
M27	6 22 40	5°34'31	15°16	13°41	6°15	0♂22	0°31	23°30	25° 5	8°38	10°20	25°22	26°43	5°52	16°D40	M27
T 28	6 26 37	6°35'43	29°55	14°52	7°29	1° 9	0°23	23°36	25° 8	8°36	10°21	25°15	26°40	5°59	16°40	T 28
W29	6 30 34	7°36'55	14♂35	16° 6	8°43	1°57	0°15	23°42	25°11	8°35	10°21	25° 7	26°37	6° 6	16°40	W29
T 30	6 34 30	8°38'07	29° 9	17°22	9°57	2°44	0° 7	23°47	25°14	8°33	10°22	24°59	26°34	6°12	16°40	T 30
F 31	6 38 27	9♂39'19	13♂30	18♂39	11♂11	3♂31	29♂59	23♂53	25♂17	8♂32	10♂22	24♂52	26♂30	6♂19	16°Y40	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	decl	lat
W 1	21s51	26s13	4s57	22s23	0n25	24s46	1s21	24s15	1s 9	23n11	0s14	15s43	1s25	18s28	0n15	20n18	1s36	11n26	16n43	12s20	12s 9	16n53	7n36	0n59			
T 2	22 0	27 45	4 36	21 55	0 45	24 45	1 23	24 11	1 10	23 11	0 14	15 42	1 25	18 29	0 15	20 18	1 36	11 26	16 43	12 24	12 10	16 56	7 35	0 59			
F 3	22 9	27 18	3 57	21 26	1 5	24 43	1 24	24 7	1 10	23 12	0 14	15 40	1 25	18 30	0 15	20 18	1 36	11 26	16 44	12 27	12 11	16 59	7 35	0 59			
S 4	22 17	25 3	3 4	20 56	1 24	24 41	1 26	24 3	1 10	23 12	0 14	15 39	1 25	18 31	0 15	20 17	1 36	11 26	16 44	12 30	12 13	17 2	7 34	0 59			
S 5	22 25	21 23	2 1	20 27	1 43	24 38	1 28	23 59	1 10	23 12	0 14	15 38	1 25	18 32	0 15	20 17	1 36	11 26	16 45	12 31	12 14	17 4	7 33	0 59			
M 6	22 32	16 44	0 55	20 0	1 59	24 34	1 29	23 54	1 10	23 13	0 13	15 36	1 25	18 32	0 15	20 17	1 36	11 26	16 45	12 32	12 15	17 7	7 33	0 59			
T 7	22 39	11 29	0n13	19 34	2 14	24 29	1 31	23 49	1 10	23 13	0 13	15 35	1 25	18 33	0 15	20 17	1 36	11 26	16 46	12 32	12 16	17 10	7 32	0 58			
W 8	22 46	5 55	1 18	19 11	2 26	24 24	1 32	23 44	1 10	23 13	0 13	15 33	1 25	18 34	0 15	20 17	1 36	11 26	16 47	12 32	12 17	17 12	7 32	0 58			
T 9	22 52	0 16	2 18	18 52	2 36	24 18	1 34	23 38	1 10	23 14	0 13	15 32	1 25	18 35	0 15	20 16	1 36	11 26	16 47	12 32	12 18	17 15	7 31	0 58			
F 10	22 57	5n18	3 11	18 36	2 43	24 11	1 35	23 33	1 10	23 14	0 13	15 31	1 25	18 36	0 15	20 16	1 36	11 26	16 48	12 33	12 19	17 17	7 31	0 58			
S 11	23 3	10 38	3 56	18 24	2 49	24 3	1 36	23 26	1 10	23 14	0 13	15 29	1 25	18 37	0 15	20 16	1 36	11 26	16 48	12 34	12 20	17 20	7 30	0 58			
S 12	23 7	15 34	4 30	18 16	2 52	23 55	1 38	23 20	1 10	23 15	0 13	15 27	1 24	18 38	0 15	20 16	1 36	11 26	16 49	12 36	12 21	17 23	7 30	0 58			
M13	23 11	19 56	4 52	18 11	2 54	23 46	1 39	23 14	1 10	23 15	0 12	15 26	1 24	18 38	0 15	20 15	1 36	11 26	16 49	12 40	12 22	17 25	7 29	0 58			
T 14	23 15	23 32	5 2	18 11	2 53	23 36	1 40	23 7	1 10	23 15	0 12	15 24	1 24	18 39	0 15	20 15	1 36	11 26	16 50	12 43	12 24	17 28	7 29	0 58			
W15	23 19	26 10	4 58	18 13	2 52	23 26	1 41	23 0	1 10	23 15	0 12	15 23	1 24	18 40	0 15	20 15	1 36	11 26	16 50	12 48	12 25	17 31	7 28	0 57			
T 16	23 21	27 35	4 41	18 19	2 49	23 15	1 42	22 52	1 10	23 16	0 12	15 21	1 24	18 41	0 15	20 15	1 36	11 26	16 51	12 52	12 26	17 33	7 28	0 57			
F 17	23 24	27 39	4 10	18 27	2 45	23 3	1 43	22 45	1 10	23 16	0 12	15 19	1 24	18 42	0 15	20 14	1 36	11 27	16 51	12 56	12 27	17 36	7 28	0 57			
S 18	23 26	26 17	3 27	18 37	2 40	22 50	1 43	22 37	1 10	23 16	0 12	15 18	1 24	18 43	0 15	20 14	1 36	11 27	16 52	12 59	12 28	17 39	7 27	0 57			
S 19	23 27	23 33	2 33	18 49	2 34	22 37	1 44	22 28	1 10	23 16	0 12	15 16	1 24	18 43	0 15	20 14	1 36	11 27	16 53	13 1	12 29	17 41	7 27	0 57			
M20	23 28	19 36	1 29	19 2	2 27	22 23	1 45	22 20	1 10	23 17	0 12	15 14	1 24	18 44	0 15	20 14	1 36	11 27	16 53	13 2	12 30	17 44	7 27	0 57			
T 21	23 29	14 38	0 20	19 17	2 21	22 9	1 45	22 11	1 10	23 17	0 11	15 12	1 24	18 45	0 15	20 14	1 36	11 27	16 54	13 3	12 31	17 46	7 26	0 57			
W22	23 29	8 54	0s51	19 33	2 13	21 54	1 46	22 2	1 10	23 17	0 11	15 11	1 24	18 46	0 15	20 13	1 36	11 28	16 54	13 3	12 32	17 49	7 26	0 56			
T 23	23 28	2 41	2 1	19 49	2 6	21 38	1 46	21 53	1 10	23 17	0 11	15 9	1 24	18 47	0 15	20 13	1 36	11 28	16 55	13 2	12 33	17 52	7 26	0 56			
F 24	23 27	3s46	3 5	20 6	1 58	21 21	1 47	21 44	1 10	23 17	0 11	15 7	1 24	18 47	0 15	20 13	1 36	11 28	16 55	13 2	12 34	17 54	7 26	0 56			
S 25	23 26	10 9	3 59	20 23	1 49	21 4	1 47	21 34	1 10	23 18	0 11	15 5	1 24	18 48	0 15	20 13	1 36	11 28	16 56	13 2	12 35	17 57	7 25	0 56			
S 26	23 24	16 6	4 39	20 40	1 41	20 47	1 47	21 24	1 10	23 18	0 11	15 3	1 24	18 49	0 15	20 12	1 35	11 29	16 57	13 3	12 37	17 59	7 25	0 56			
M27	23 22	21 15	5 2	20 57	1 33	20 28	1 47	21 14	1 9	23 18	0 11	15 1	1 24	18 50	0 15	20 12	1 35	11 29	16 57	13 5	12 38	18 2	7 25	0 56			
T 28	23 19	25 8	5 6	21 13	1 24	20 9	1 47	21 4	1 9	23 18	0 10	14 59	1 24	18 50	0 15	20 12	1 35	11 29	16 58	13 7	12 39	18 4	7 25	0 56			
W29	23 15	27 23	4 50	21 30	1 16	19 50	1 47	20 53	1 9	23 18	0 10	14 58	1 24	18 51	0 15	20 12	1 35	11 30	16 58	13 10	12 40	18 7	7 25	0 56			
T 30	23 12	27 43	4 15	21 45	1 7	19 30	1 47	20 42	1 9	23 19	0 10	14 56	1 24	18 52	0 15	20 12	1 35	11 30	16 59	13 13	12 41	18 9	7 25	0 55			
F 31	23s 7	26s10	3s24	22s 1	0n59	19s10	1s47	20s31	1s 9	23n19	0s10	14s54	1s24	18s52	0n15	20n12	1s35	11n30	16n59	13s15	12s42	18n12	7n25	0n55			