



Astrodienst Ephemeris Tables for the year 1733

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 1733
geocentric

JANUARY 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 42 31	10°34'238	17°39	29°346	0°56	9°7	5°44	10°24	12°15	17°R43	20°26	10°R24	9°5	19°23	3°R11	T 1
F 2	6 46 28	11°43'47	1°5	0°26	2°8	9°52	5°53	10°27	12°18	17°II41	20°27	10°20	9°2	19°30	3°R10	F 2
S 3	6 50 24	12°44'56	14°12	0°56	3°21	10°37	6°1	10°29	12°21	17°39	20°27	10°14	8°59	19°36	3°10	S 3
S 4	6 54 21	13°46'05	26°59	1°17	4°33	11°22	6°10	10°31	12°25	17°38	20°28	10°8	8°56	19°43	3°9	S 4
M 5	6 58 17	14°47'13	9°28	1°R28	5°45	12°7	6°18	10°34	12°28	17°37	20°29	10°3	8°53	19°50	3°9	M 5
T 6	7 2 14	15°48'22	21°42	1°27	6°58	12°52	6°26	10°36	12°31	17°35	20°29	9°59	8°49	19°56	3°8	T 6
W 7	7 6 10	16°49'31	3°43	1°15	8°11	13°37	6°34	10°39	12°34	17°34	20°30	9°56	8°46	20°3	3°8	W 7
T 8	7 10 7	17°50'39	15°36	0°51	9°23	14°22	6°42	10°42	12°37	17°32	20°31	9°D55	8°43	20°10	3°7	T 8
F 9	7 14 4	18°51'48	27°26	0°16	10°36	15°7	6°50	10°45	12°41	17°31	20°31	9°55	8°40	20°17	3°7	F 9
S 10	7 18 0	19°52'56	9°18	29°329	11°49	15°52	6°57	10°48	12°44	17°29	20°32	9°56	8°37	20°23	3°7	S 10
S 11	7 21 57	20°54'05	21°18	28°32	13°1	16°37	7°5	10°51	12°47	17°28	20°32	9°58	8°34	20°30	3°7	S 11
M12	7 25 53	21°55'13	3°29	27°27	14°14	17°22	7°12	10°54	12°50	17°27	20°32	9°59	8°30	20°37	3°D7	M12
T 13	7 29 50	22°56'20	15°56	26°15	15°27	18°7	7°19	10°57	12°53	17°25	20°33	9°R59	8°27	20°43	3°7	T 13
W14	7 33 46	23°57'28	28°43	24°59	16°40	18°52	7°26	11°0	12°56	17°24	20°33	9°58	8°24	20°50	3°7	W14
T 15	7 37 43	24°58'35	11°30	23°41	17°53	19°37	7°33	11°4	12°59	17°23	20°33	9°54	8°21	20°57	3°7	T 15
F 16	7 41 39	25°59'41	25°17	22°24	19°6	20°22	7°40	11°7	13°2	17°21	20°34	9°48	8°18	21°3	3°7	F 16
S 17	7 45 36	27°0'47	9°3	21°9	20°19	21°6	7°46	11°11	13°5	17°20	20°34	9°40	8°14	21°10	3°8	S 17
S 18	7 49 33	28°1'52	23°3	19°59	21°32	21°51	7°53	11°15	13°8	17°19	20°34	9°31	8°11	21°17	3°8	S 18
M19	7 53 29	29°2'56	7°14	18°55	22°45	22°36	7°59	11°19	13°10	17°18	20°34	9°23	8°8	21°23	3°8	M19
T 20	7 57 26	0°3'59	21°29	17°59	23°59	23°21	8°5	11°23	13°13	17°17	20°34	9°16	8°5	21°30	3°9	T 20
W21	8 1 22	1°5'01	5°46	17°12	25°12	24°6	8°11	11°27	13°16	17°16	20°34	9°11	8°2	21°37	3°9	W21
T 22	8 5 19	2°6'02	19°59	16°33	26°25	24°50	8°17	11°31	13°19	17°14	20°34	9°9	7°59	21°43	3°10	T 22
F 23	8 9 15	3°7'01	4°8	16°3	27°38	25°35	8°23	11°35	13°21	17°13	20°R34	9°D8	7°55	21°50	3°11	F 23
S 24	8 13 12	4°8'00	18°9	15°43	28°52	26°20	8°28	11°39	13°24	17°12	20°34	9°9	7°52	21°57	3°11	S 24
S 25	8 17 8	5°8'57	2°4	15°30	0°5	27°4	8°34	11°44	13°27	17°11	20°34	9°R9	7°49	22°4	3°12	S 25
M26	8 21 5	6°9'53	15°51	15°D27	1°18	27°49	8°39	11°48	13°29	17°10	20°34	9°9	7°46	22°10	3°13	M26
T 27	8 25 2	7°10'48	29°30	15°30	2°32	28°33	8°44	11°53	13°32	17°9	20°34	9°7	7°43	22°17	3°14	T 27
W28	8 28 58	8°11'42	12°39	15°42	3°45	29°18	8°49	11°57	13°34	17°8	20°34	9°3	7°40	22°24	3°15	W28
T 29	8 32 55	9°12'34	26°18	15°59	4°59	0°Y3	8°53	12°2	13°37	17°7	20°34	8°56	7°36	22°30	3°16	T 29
F 30	8 36 51	10°13'26	9°25	16°23	6°12	0°47	8°58	12°7	13°39	17°7	20°33	8°46	7°33	22°37	3°17	F 30
S 31	8 40 48	11°14'16	22°18	16°53	7°26	1°Y31	9°12	12°Y12	13°42	17°II6	20°33	8°Y35	7°Y30	22°44	3°R18	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
T 1	23s 2	19n10	3s10	20s47	0s34	18s17	2n 8	8s57	0s50	12s21	1n10	1n49	2s30	22s16	0n 1	21n29
F 2	22 57	16 0	4 2	20 24	0 20	18 34	2 6	8 39	0 49	12 23	1 11	1 50	2 30	22 17	0 1	21 29
S 3	22 52	12 7	4 40	20 3	0 4	18 49	2 4	8 21	0 48	12 26	1 11	1 52	2 30	22 17	0 1	21 29
S 4	22 46	7 47	5 4	19 42	0n12	19 5	2 2	8 3	0 47	12 29	1 11	1 53	2 29	22 18	0 1	21 29
M 5	22 39	3 13	5 12	19 23	0 30	19 20	2 0	7 44	0 46	12 31	1 11	1 54	2 29	22 18	0 1	21 29
T 6	22 32	1s23	5 5	19 5	0 48	19 34	1 58	7 26	0 45	12 34	1 11	1 55	2 29	22 18	0 1	21 28
W 7	22 25	5 50	4 45	18 49	1 7	19 48	1 56	7 8	0 44	12 36	1 11	1 56	2 29	22 19	0 1	21 28
T 8	22 17	10 3	4 13	18 36	1 26	20 1	1 54	6 50	0 43	12 39	1 12	1 58	2 28	22 19	0 1	21 28
F 9	22 9	13 51	3 31	18 25	1 45	20 14	1 51	6 31	0 42	12 41	1 12	1 59	2 28	22 20	0 1	21 28
S 10	22 0	17 8	2 39	18 17	2 3	20 26	1 49	6 13	0 41	12 43	1 12	2 1	2 28	22 20	0 1	21 28
S 11	21 51	19 43	1 40	18 11	2 21	20 38	1 47	5 55	0 40	12 46	1 12	2 2	2 28	22 20	0 1	21 28
M12	21 41	21 27	0 35	18 8	2 37	20 49	1 44	5 36	0 39	12 48	1 12	2 3	2 27	22 21	0 1	21 28
T 13	21 31	22 12	0n32	18 7	2 52	21 0	1 42	5 18	0 38	12 50	1 12	2 5	2 27	22 21	0 1	21 28
W14	21 21	21 48	1 40	18 8	3 4	21 10	1 39	4 59	0 37	12 52	1 13	2 7	2 27	22 22	0 1	21 28
T 15	21 10	20 14	2 44	18 12	3 15	21 19	1 37	4 41	0 36	12 54	1 13	2 8	2 27	22 22	0 1	21 28
F 16	20 59	17 30	3 40	18 17	3 23	21 28	1 34	4 22	0 36	12 56	1 13	2 10	2 26	22 22	0 1	21 28
S 17	20 47	13 46	4 25	18 23	3 28	21 36	1 31	4 4	0 35	12 58	1 13	2 11	2 26	22 23	0 1	21 27
S 18	20 35	9 13	4 54	18 31	3 31	21 44	1 29	3 45	0 34	13 0	1 13	2 13	2 26	22 23	0 1	21 27
M19	20 23	4 7	5 7	18 39	3 31	21 51	1 26	3 26	0 33	13 2	1 13	2 15	2 26	22 24	0 1	21 27
T 20	20 10	1n13	5 0	18 48	3 29	21 57	1 23	3 8	0 32	13 4	1 14	2 17	2 25	22 24	0 1	21 27
W21	19 57	6 30	4 35	18 58	3 26	22 3	1 20	2 49	0 31	13 6	1 14	2 18	2 25	22 24	0 1	21 27
T 22	19 43	11 25	3 53	19 8	3 20	22 8	1 17	2 31	0 30	13 7	1 14	2 20	2 25	22 25	0 1	21 27
F 23	19 29	15 41	2 57	19 18	3 14	22 13	1 14	2 12	0 29	13 9	1 14	2 22	2 25	22 25	0 1	21 27
S 24	19 15	19 2	1 50	19 28	3 6	22 17	1 11	1 53	0 28	13 10	1 14	2 24	2 25	22 25	0 1	21 27
S 25	19 0	21 13	0 38	19 39	2 57	22 20	1 8	1 35	0 27	13 12	1 15	2 26	2 24	22 26	0 1	21 27
M26	18 45	22 8	0s36	19 49	2 47	22 23	1 5	1 16	0 26	13 13	1 15	2 28	2 24	22 26	0 1	21 27
T 27	18 30	21 42	1 47	19 58	2 37	22 24	1 2	0 57	0 25	13 15	1 15	2 30	2 24	22 26	0 1	21 27
W28	18 15	20 1	2 51	20 8	2 26	22 26	0 59	0 39	0 24	13 16	1 15	2 32	2 24	22 27	0 1	21 27
T 29	17 59	17 15	3 44	20 16	2 15	22 26	0 56	0 20	0 23	13 18	1 15	2 34	2 23	22 27	0 1	21 27
F 30	17 42	13 40	4 25	20 25	2 4	22 26	0 53	0 2	0 22	13 19	1 15	2 36	2 23	22 27	0 1	21 27
S 31	17s26	9n30	4s51	20s32	1n53	22s26	0n50	0n17	0s21	13s20	1n16	2n38	2s23	22s27	0n 1	21n27

Julian Day Number = 2354025.5, Delta T = 11.71 sec
Ecliptic obliquity = 23°28'23", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°00'46, Lahiri = 20°07'47Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1733

geocentric

FEBRUARY 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 44	12°15'05	4°57	17°28	8°39	2°16	9°16	12°17	13°44	17°R 5	20°R33	8°R23	7°27	22°50	3°19	S 1
M 2	8 48 41	13°15'52	17°21	18° 8	9°53	3° 0	9°10	12°22	13°46	17°II 4	20°R33	8°R11	7°24	22°57	3°21	M 2
T 3	8 52 37	14°16'39	29°32	18°52	11° 6	3°45	9°14	12°27	13°49	17° 3	20°32	8° 1	7°20	23° 4	3°22	T 3
W 4	8 56 34	15°17'25	11°32	19°39	12°20	4°29	9°18	12°32	13°51	17° 2	20°32	7°53	7°17	23°10	3°23	W 4
T 5	9 0 31	16°18'09	23°25	20°31	13°33	5°13	9°22	12°37	13°53	17° 2	20°31	7°48	7°14	23°17	3°25	T 5
F 6	9 4 27	17°18'53	5°14	21°26	14°47	5°57	9°25	12°42	13°55	17° 1	20°31	7°45	7°11	23°24	3°26	F 6
S 7	9 8 24	18°19'35	17° 4	22°24	16° 1	6°42	9°28	12°48	13°57	17° 0	20°30	7°D44	7° 8	23°30	3°28	S 7
S 8	9 12 20	19°20'16	29° 2	23°24	17°14	7°26	9°31	12°53	13°59	17° 0	20°30	7°45	7° 5	23°37	3°29	S 8
M 9	9 16 17	20°20'57	11°13	24°28	18°28	8°10	9°34	12°59	14° 1	16°59	20°29	7°R45	7° 1	23°44	3°31	M 9
T 10	9 20 13	21°21'36	23°41	25°33	19°42	8°54	9°36	13° 4	14° 3	16°59	20°28	7°44	6°58	23°50	3°33	T 10
W11	9 24 10	22°22'14	6°31	26°41	20°56	9°38	9°39	13°10	14° 5	16°58	20°28	7°41	6°55	23°57	3°35	W11
T 12	9 28 6	23°22'50	19°46	27°51	22° 9	10°22	9°41	13°16	14° 7	16°58	20°27	7°35	6°52	24° 4	3°36	T 12
F 13	9 32 3	24°23'26	3°28	29° 3	23°23	11° 6	9°43	13°22	14° 9	16°57	20°26	7°26	6°49	24°10	3°38	F 13
S 14	9 36 0	25°24'00	17°34	0°16	24°37	11°50	9°45	13°28	14°11	16°57	20°26	7°15	6°46	24°17	3°40	S 14
S 15	9 39 56	26°24'32	1°59	1°32	25°51	12°34	9°47	13°34	14°12	16°56	20°25	7° 3	6°42	24°24	3°42	S 15
M16	9 43 53	27°25'02	16°38	2°48	27° 5	13°18	9°48	13°40	14°14	16°56	20°24	6°51	6°39	24°31	3°44	M16
T 17	9 47 49	28°25'31	1°Y22	4° 7	28°18	14° 2	9°50	13°46	14°15	16°56	20°23	6°41	6°36	24°37	3°46	T 17
W18	9 51 46	29°25'58	16° 3	5°27	29°32	14°46	9°51	13°52	14°17	16°55	20°22	6°33	6°33	24°44	3°49	W18
T 19	9 55 42	0°26'24	0°36	6°48	0°46	15°30	9°52	13°58	14°19	16°55	20°21	6°28	6°30	24°51	3°51	T 19
F 20	9 59 39	1°26'47	14°55	8°10	2° 0	16°13	9°52	14° 4	14°20	16°55	20°21	6°25	6°26	24°57	3°53	F 20
S 21	10 3 35	2°27'08	28°58	9°34	3°14	16°57	9°53	14°10	14°21	16°55	20°20	6°25	6°23	25° 4	3°55	S 21
S 22	10 7 32	3°27'28	12°46	10°59	4°28	17°41	9°53	14°17	14°23	16°55	20°19	6°25	6°20	25°11	3°58	S 22
M23	10 11 29	4°27'45	26°19	12°25	5°42	18°24	9°54	14°23	14°24	16°55	20°18	6°24	6°17	25°17	4° 0	M23
T 24	10 15 25	5°28'00	9°39	13°53	6°55	19° 8	9°R54	14°30	14°25	16°54	20°17	6°21	6°14	25°24	4° 3	T 24
W25	10 19 22	6°28'13	22°46	15°21	8° 9	19°51	9°53	14°36	14°27	16°54	20°16	6°15	6°11	25°31	4° 5	W25
T 26	10 23 18	7°28'25	5°43	16°51	9°23	20°35	9°53	14°43	14°28	16°D54	20°14	6° 7	6° 7	25°37	4° 8	T 26
F 27	10 27 15	8°28'34	18°28	18°22	10°37	21°18	9°52	14°49	14°29	16°54	20°13	5°55	6° 4	25°44	4°10	F 27
S 28	10 31 11	9°28'41	1°13	19°54	11°51	22°Y 2	9°M52	14°Y56	14°230	16°II54	20°12	5°42	6°1	25°51	4°13	S 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	17s 9	5n 1	5s 2	20s39	1n42	22s24	0n47	0n35	0s21	13s21	1n16	2n40	2s23	22s28	0n 1	21n27
M 2	16 52	0 25	4 59	20 45	1 31	22 22	0 44	0 54	0 20	13 22	1 16	2 42	2 23	22 28	0 1	21 27
T 3	16 34	4s 8	4 42	20 50	1 20	22 20	0 41	1 12	0 19	13 23	1 16	2 44	2 22	22 28	0 1	21 27
W 4	16 16	8 27	4 13	20 54	1 9	22 16	0 38	1 31	0 18	13 24	1 16	2 47	2 22	22 29	0 1	21 27
T 5	15 58	12 24	3 33	20 57	0 58	22 12	0 35	1 49	0 17	13 25	1 17	2 49	2 22	22 29	0 1	21 27
F 6	15 40	15 51	2 44	20 59	0 47	22 8	0 32	2 7	0 16	13 26	1 17	2 51	2 22	22 29	0 1	21 27
S 7	15 21	18 41	1 48	21 0	0 37	22 2	0 29	2 26	0 15	13 27	1 17	2 53	2 22	22 29	0 1	21 27
S 8	15 3	20 43	0 46	21 0	0 27	21 56	0 26	2 44	0 14	13 28	1 17	2 56	2 21	22 30	0 1	21 27
M 9	14 43	21 51	0n18	20 59	0 17	21 50	0 22	3 2	0 13	13 28	1 17	2 58	2 21	22 30	0 1	21 27
T 10	14 24	21 56	1 24	20 57	0 7	21 42	0 19	3 20	0 13	13 29	1 18	3 0	2 21	22 30	0 1	21 27
W11	14 5	20 53	2 26	20 53	0s 3	21 34	0 16	3 39	0 12	13 30	1 18	3 3	2 21	22 30	0 1	21 27
T 12	13 45	18 40	3 23	20 49	0 12	21 26	0 13	3 57	0 11	13 30	1 18	3 5	2 21	22 31	0 1	21 27
F 13	13 25	15 21	4 10	20 43	0 20	21 17	0 10	4 15	0 10	13 31	1 18	3 7	2 20	22 31	0 1	21 27
S 14	13 4	11 5	4 43	20 36	0 29	21 7	0 7	4 33	0 9	13 31	1 18	3 10	2 20	22 31	0 1	21 27
S 15	12 44	6 7	4 59	20 27	0 37	20 56	0 4	4 51	0 8	13 31	1 19	3 12	2 20	22 31	0 1	21 27
M16	12 23	0 44	4 56	20 18	0 45	20 45	0 1	5 9	0 8	13 32	1 19	3 15	2 20	22 31	0 1	21 27
T 17	12 2	4n44	4 34	20 7	0 53	20 33	0s 2	5 26	0 7	13 32	1 19	3 17	2 20	22 32	0 1	21 27
W18	11 41	9 54	3 53	19 55	1 0	20 21	0 5	5 44	0 6	13 32	1 19	3 20	2 20	22 32	0 1	21 27
T 19	11 20	14 28	2 57	19 41	1 7	20 8	0 8	6 2	0 5	13 32	1 19	3 22	2 19	22 32	0 1	21 27
F 20	10 59	18 6	1 51	19 26	1 14	19 55	0 10	6 19	0 4	13 32	1 20	3 25	2 19	22 32	0 1	21 27
S 21	10 37	20 36	0 39	19 10	1 20	19 41	0 13	6 37	0 3	13 32	1 20	3 28	2 19	22 32	0 1	21 27
S 22	10 15	21 48	0s34	18 53	1 26	19 26	0 16	6 54	0 3	13 32	1 20	3 30	2 19	22 33	0 1	21 27
M23	9 53	21 42	1 43	18 34	1 32	19 11	0 19	7 12	0 2	13 32	1 20	3 33	2 19	22 33	0 1	21 27
T 24	9 31	20 22	2 46	18 14	1 37	18 55	0 22	7 29	0 1	13 32	1 20	3 35	2 19	22 33	0 1	21 27
W25	9 9	17 57	3 39	17 53	1 42	18 39	0 24	7 46	0 0	13 32	1 21	3 38	2 19	22 33	0 1	21 27
T 26	8 47	14 41	4 19	17 30	1 47	18 22	0 27	8 3	0n 0	13 31	1 21	3 41	2 18	22 33	0 1	21 27
F 27	8 24	10 46	4 46	17 6	1 51	18 5	0 30	8 20	0 1	13 31	1 21	3 43	2 18	22 33	0 1	21 27
S 28	8s 2	6n27	4s59	16s41	1s55	17s47	0s32	8n37	0n 2	13s30	1n21	3n46	2s18	22s33	0n 1	21n27

Julian Day Number = 2354056.5, Delta T = 11.72 sec

Ecliptic obliquity = 23°28'23, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 21°00'51, Lahiri = 20°07'51 Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1733
geocentric

MARCH 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 8	10 ^h 28'46	13 ^m 28	21 ^s 27	13 ^s 5	22 ^h 45	9 ^h 51	15 ^h 3	14 ^h 31	16 ^h 55	20 ^h 11	5 ^h 27	5 ^h 58	25 ^h 57	4 ^h 16	S 1
M 2	10 39 4	11 ^h 28'50	25 ^m 42	23 ^s 1	14 ^s 19	23 ^h 29	9 ^h 50	15 ^h 9	14 ^h 32	16 ^h 55	20 ^h 10	5 ^h 14	5 ^h 55	26 ^h 4	4 ^h 18	M 2
T 3	10 43 1	12 ^h 28'51	7 ^m 46	24 ^s 37	15 ^s 33	24 ^h 12	9 ^h 48	15 ^h 16	14 ^h 33	16 ^h 55	20 ^h 9	5 ^h 1	5 ^h 52	26 ^h 11	4 ^h 21	T 3
W 4	10 46 57	13 ^h 28'51	19 ^m 42	26 ^s 13	16 ^s 47	24 ^h 55	9 ^h 47	15 ^h 23	14 ^h 34	16 ^h 55	20 ^h 7	4 ^h 51	5 ^h 48	26 ^h 17	4 ^h 24	W 4
T 5	10 50 54	14 ^h 28'49	1 ^m 32	27 ^s 51	18 ^s 1	25 ^h 38	9 ^h 45	15 ^h 30	14 ^h 34	16 ^h 55	20 ^h 6	4 ^h 44	5 ^h 45	26 ^h 24	4 ^h 27	T 5
F 6	10 54 51	15 ^h 28'46	13 ^m 20	29 ^s 29	19 ^s 14	26 ^h 22	9 ^h 43	15 ^h 37	14 ^h 35	16 ^h 56	20 ^h 5	4 ^h 40	5 ^h 42	26 ^h 31	4 ^h 30	F 6
S 7	10 58 47	16 ^h 28'41	25 ^m 10	1 ^s 9	20 ^s 28	27 ^h 5	9 ^h 41	15 ^h 44	14 ^h 36	16 ^h 56	20 ^h 3	4 ^h 39	5 ^h 39	26 ^h 37	4 ^h 33	S 7
S 8	11 2 44	17 ^h 28'34	7 ^m 7	2 ^s 50	21 ^s 42	27 ^h 48	9 ^h 39	15 ^h 51	14 ^h 37	16 ^h 56	20 ^h 2	4 ^h D38	5 ^h 36	26 ^h 44	4 ^h 36	S 8
M 9	11 6 40	18 ^h 28'25	19 ^m 14	4 ^s 32	22 ^s 56	28 ^h 31	9 ^h 37	15 ^h 58	14 ^h 37	16 ^h 57	20 ^h 1	4 ^h R38	5 ^h 32	26 ^h 51	4 ^h 39	M 9
T 10	11 10 37	19 ^h 28'15	1 ^s 39	6 ^s 16	24 ^s 10	29 ^h 14	9 ^h 34	16 ^h 5	14 ^h 38	16 ^h 57	19 ^h 59	4 ^h 38	5 ^h 29	26 ^h 57	4 ^h 42	T 10
W 11	11 14 33	20 ^h 28'03	14 ^m 27	8 ^s 0	25 ^s 24	29 ^h 57	9 ^h 31	16 ^h 12	14 ^h 38	16 ^h 57	19 ^h 58	4 ^h 35	5 ^h 26	27 ^h 4	4 ^h 45	W 11
T 12	11 18 30	21 ^h 27'50	27 ^m 41	9 ^s 46	26 ^s 38	0 ^h 40	9 ^h 28	16 ^h 19	14 ^h 39	16 ^h 58	19 ^h 57	4 ^h 31	5 ^h 23	27 ^h 11	4 ^h 48	T 12
F 13	11 22 26	22 ^h 27'34	11 ^m 24	11 ^s 33	27 ^s 52	1 ^h 23	9 ^h 25	16 ^h 26	14 ^h 39	16 ^h 58	19 ^h 55	4 ^h 24	5 ^h 20	27 ^h 17	4 ^h 51	F 13
S 14	11 26 23	23 ^h 27'17	25 ^m 36	13 ^s 21	29 ^s 6	2 ^h 6	9 ^h 22	16 ^h 33	14 ^h 39	16 ^h 59	19 ^h 54	4 ^h 14	5 ^h 17	27 ^h 24	4 ^h 54	S 14
S 15	11 30 20	24 ^h 26'58	10 ^m 13	15 ^s 10	0 ^h 20	2 ^h 48	9 ^h 18	16 ^h 41	14 ^h 40	16 ^h 59	19 ^h 52	4 ^h 4	5 ^h 13	27 ^h 31	4 ^h 58	S 15
M 16	11 34 16	25 ^h 26'36	25 ^m 9	17 ^s 1	1 ^s 34	3 ^h 31	9 ^h 15	16 ^h 48	14 ^h 40	17 ^h 0	19 ^h 51	3 ^h 53	5 ^h 10	27 ^h 37	5 ^h 1	M 16
T 17	11 38 13	26 ^h 26'13	10 ^m 14	18 ^s 53	2 ^s 48	4 ^h 14	9 ^h 11	16 ^h 55	14 ^h 40	17 ^h 1	19 ^h 49	3 ^h 43	5 ^h 7	27 ^h 44	5 ^h 4	T 17
W 18	11 42 9	27 ^h 25'48	25 ^m 19	20 ^s 46	4 ^s 2	4 ^h 57	9 ^h 7	17 ^h 2	14 ^h 40	17 ^h 1	19 ^h 48	3 ^h 36	5 ^h 4	27 ^h 51	5 ^h 8	W 18
T 19	11 46 6	28 ^h 25'21	10 ^m 13	22 ^s 40	5 ^s 16	5 ^h 39	9 ^h 3	17 ^h 10	14 ^h 40	17 ^h 2	19 ^h 46	3 ^h 32	5 ^h 1	27 ^h 57	5 ^h 11	T 19
F 20	11 50 2	29 ^h 24'51	24 ^m 51	24 ^s 35	6 ^s 30	6 ^h 22	8 ^h 58	17 ^h 17	14 ^h R40	17 ^h 3	19 ^h 45	3 ^h 30	4 ^h 57	28 ^h 4	5 ^h 15	F 20
S 21	11 53 59	0 ^h 24'19	9 ^m 11	26 ^s 32	7 ^s 44	7 ^h 4	8 ^h 54	17 ^h 25	14 ^h 40	17 ^h 4	19 ^h 43	3 ^h D30	4 ^h 54	28 ^h 11	5 ^h 18	S 21
S 22	11 57 55	1 ^h 23'45	23 ^m 3	28 ^s 30	8 ^s 58	7 ^h 47	8 ^h 49	17 ^h 32	14 ^h 40	17 ^h 4	19 ^h 41	3 ^h 30	4 ^h 51	28 ^h 18	5 ^h 22	S 22
M 23	12 1 52	2 ^h 23'08	6 ^m 36	0 ^h 29	10 ^s 12	8 ^h 29	8 ^h 44	17 ^h 39	14 ^h 40	17 ^h 5	19 ^h 40	3 ^h R30	4 ^h 48	28 ^h 24	5 ^h 25	M 23
T 24	12 5 49	3 ^h 22'29	19 ^m 49	2 ^s 29	11 ^s 26	9 ^h 12	8 ^h 39	17 ^h 47	14 ^h 40	17 ^h 6	19 ^h 38	3 ^h 29	4 ^h 45	28 ^h 31	5 ^h 29	T 24
W 25	12 9 45	4 ^h 21'48	2 ^m 45	4 ^s 30	12 ^s 40	9 ^h 54	8 ^h 34	17 ^h 54	14 ^h 39	17 ^h 7	19 ^h 37	3 ^h 25	4 ^h 42	28 ^h 38	5 ^h 32	W 25
T 26	12 13 42	5 ^h 21'04	15 ^m 27	6 ^s 32	13 ^s 53	10 ^h 37	8 ^h 29	18 ^h 2	14 ^h 39	17 ^h 8	19 ^h 35	3 ^h 19	4 ^h 38	28 ^h 44	5 ^h 36	T 26
F 27	12 17 38	6 ^h 20'18	27 ^m 57	8 ^s 35	15 ^s 7	11 ^h 19	8 ^h 24	18 ^h 9	14 ^h 39	17 ^h 9	19 ^h 33	3 ^h 11	4 ^h 35	28 ^h 51	5 ^h 39	F 27
S 28	12 21 35	7 ^h 19'30	10 ^m 16	10 ^s 38	16 ^s 21	12 ^h 1	8 ^h 18	18 ^h 17	14 ^h 38	17 ^h 10	19 ^h 32	3 ^h 1	4 ^h 32	28 ^h 58	5 ^h 43	S 28
S 29	12 25 31	8 ^h 18'39	22 ^m 26	12 ^s 41	17 ^s 35	12 ^h 43	8 ^h 12	18 ^h 24	14 ^h 38	17 ^h 11	19 ^h 30	2 ^h 51	4 ^h 29	29 ^h 4	5 ^h 47	S 29
M 30	12 29 28	9 ^h 17'47	4 ^m 29	14 ^s 45	18 ^s 49	13 ^h 25	8 ^h 7	18 ^h 32	14 ^h 37	17 ^h 12	19 ^h 29	2 ^h 40	4 ^h 26	29 ^h 11	5 ^h 50	M 30
T 31	12 33 24	10 ^h 16'52	16 ^m 25	16 ^s 49	20 ^s 16	14 ^h 8	8 ^m 1	18 ^h 39	14 ^h 37	17 ^h 13	19 ^h 27	2 ^h 31	4 ^h 23	29 ^h 18	5 ^h 54	T 31

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	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	7s39	1n56	4s57	16s15	1s59	17s28	0s35	8n54	0n 3	13s30	1n21	3n49	2s18	22s34	0n 1	21n27	1s23	8n24	17n35	21s15	21s20	13s 7	11n52	1s 9	
M 2	7 16	2s35	4 41	15 47	2 2	17 9	0 37	9 11	0 4	13 29	1 21	3 51	2 18	22 34	0 1	21 27	1 23	8 25	17 35	21 12	21 19	13 9	11 53	1 9	
T 3	6 53	6 57	4 13	15 18	2 5	16 50	0 40	9 28	0 4	13 29	1 22	3 54	2 18	22 34	0 1	21 27	1 23	8 26	17 36	21 10	21 19	13 11	11 54	1 9	
W 4	6 30	11 1	3 34	14 47	2 7	16 30	0 42	9 44	0 5	13 28	1 22	3 57	2 18	22 34	0 1	21 27	1 23	8 26	17 36	21 8	21 18	13 13	11 55	1 9	
T 5	6 7	14 37	2 46	14 15	2 9	16 10	0 45	10 1	0 6	13 28	1 22	4 0	2 18	22 34	0 1	21 27	1 23	8 27	17 37	21 7	21 18	13 15	11 56	1 10	
F 6	5 44	17 37	1 50	13 42	2 10	15 49	0 47	10 17	0 7	13 27	1 22	4 2	2 17	22 34	0 1	21 28	1 23	8 28	17 37	21 6	21 17	13 16	11 57	1 10	
S 7	5 21	19 54	0 50	13 8	2 11	15 28	0 49	10 34	0 7	13 26	1 22	4 5	2 17	22 34	0 1	21 28	1 23	8 29	17 37	21 6	21 17	13 18	11 58	1 10	
S 8	4 57	21 19	0n13	12 32	2 12	15 6	0 52	10 50	0 8	13 25	1 23	4 8	2 17	22 34	0 1	21 28	1 23	8 30	17 38	21 6	21 16	13 20	11 59	1 10	
M 9	4 34	21 46	1 17	11 55	2 12	14 44	0 54	11 6	0 9	13 24	1 23	4 11	2 17	22 34	0 1	21 28	1 22	8 30	17 38	21 6	21 15	13 22	12 0	1 10	
T 10	4 10	21 10	2 18	11 16	2 12	14 22	0 56	11 22	0 9	13 23	1 23	4 14	2 17	22 34	0 1	21 28	1 22	8 31	17 38	21 6	21 15	13 24	12 1	1 10	
W 11	3 47	19 28	3 15	10 37	2 11	13 59	0 58	11 38	0 10	13 22	1 23	4 16	2 17	22 34	0 1	21 28	1 22	8 32	17 39	21 5	21 14	13 25	12 2	1 10	
T 12	3 23	16 41	4 3	9 56	2 10	13 36	1 0	11 53	0 11	13 21	1 23	4 19	2 17	22 34	0 1	21 28	1 22	8 33	17 39	21 4	21 14	13 27	12 3	1 10	
F 13	3 0	12 55	4 39	9 14	2 9	13 12	1 2	12 9	0 12	13 20	1 23	4 22	2 17	22 35	0 1	21 28	1 22	8 34	17 39	21 3	21 13	13 29	12 4	1 10	
S 14	2 36	8 19	4 59	8 30	2 7	12 48	1 4	12 25	0 12	13 19	1 24	4 25	2 17	22 35	0 1	21 28	1 22	8 34	17 39	21 1	21 13	13 31	12 5	1 10	
S 15	2 12	3 6	5 1	7 45	2 4	12 24	1 6	12 40	0 13	13 17	1 24	4 28	2 17	22 35	0 1	21 28	1 22	8 35	17 40	20 59	21 12	13 33	12 6	1 10	
M 16	1 49	2n23	4 42	7 0	2 1	11 59	1 7	12 55	0 14	13 16	1 24	4 31	2 16	22 35	0 1	21 28	1 22	8 36	17 40	20 57	21 12	13 34	12 7	1 10	
T 17	1 25	7 48	4 4	6 12	1 57	11 34	1 9	13 10	0 14	13 15	1 24	4 33	2 16	22 35	0 1	21 29	1 22	8 37	17 40	20 56	21 11	13 36	12 8	1 10	
W 18	1 1	12 44	3 8	5 24	1 53	11 9	1 11	13 25	0 15	13 13	1 24	4 36	2 16	22 35	0 1	21 29	1 22	8 37	17 40	20 54	21 10	13 38	12 9	1 10	
T 19	0 38	16 49	2 1	4 35	1 49	10 43	1 12	13 40	0 16	13 12	1 24	4 39	2 16	22 35	0 1	21 29	1 22	8 38	17 41	20 53	21 10	13 40	12 10	1 10	
F 20	0 14	19 45	0 46	3 44	1 44	10 17	1 14	13 55	0 16	13 10	1 24	4 42	2 16	22 35	0 1	21 29	1 22	8 39	17 41	20 53	21 9	13 41	12 11	1 10	
S 21	0n10	21 21	0s30	2 53	1 38	9 51	1 15	14 10	0 17	13 9	1 25	4 45	2 16	22 35	0 1	21 29	1 22	8 40	17 41	20 53	21 9	13 43	12 12	1 10	
S 22	0 33	21 35	1 42	2 0	1 32	9 24	1 17	14 24	0 18	13 7	1 25	4 48	2 16	22 35	0 1	21 29	1 22	8 41	17 41	20 53	21 8	13 45	12 13	1 10	
M 23	0 57	20 32	2 47	1 6	1 25	8 58	1 18	14 39	0 18	13 6	1 25	4 51	2 16	22 35	0 1	21 29	1 22	8 41	17 42	20 53	21 8	13 47	12 15	1 10	
T 24	1 21	18 21	3 41	0 12	1 18	8 31	1 20	14 53	0 19	13 4	1 25	4 54	2 16	22 35	0 1	21 29	1 22	8 42	17 42	20 53	21 7	13 48	12 16	1 10	
W 25	1 44	15 18	4 23	0n43	1 10	8 4	1 21	15 7	0 20	13 2	1 25	4 56	2 16	22 35	0 1	21 30	1 22	8 43	17 42	20 52	21 6	13 50	12 17	1 10	
T 26	2 8	11 36	4 50	1 39	1 2	7 36	1 22	15 21	0 20	13 0	1 25	4 59	2 16	22 35	0 1	21 30	1 22	8 43	17 42	20 51	21 6	13 52	12 18	1 10	
F 27	2 31	7 27	5 4	2 36	0 53	7 9	1 23	15 35	0 21	12 59	1 25	5 2	2 16	22 35	0 1	21 30	1 22	8 44	17 42	20 49	21 5	13 54	12 19	1 10	
S 28	2 55	3 4	5 3	3 33	0 44	6 41	1 24	15 48	0 22	12 57	1 25	5 5	2 16	22 35	0 1	21 30	1 21	8 45	17 42	20 47	21 5	13 55	12 20	1 10	
S 29	3 18	1s24	4 48	4 30	0 34	6 13	1 25	16 2	0 22	12 55	1 26	5 8	2 16	22 35	0 1	21 30	1 21	8 46	17 42	20 45	21 4	13 57	12 21	1 11	
M 30	3 41	5 45	4 20	5 27	0 24	6 45	1 26	16 15	0 23	12 53	1 26	5 11	2 16	22 34	0 1	21 30	1 21	8 46	17 43	20 43	21 3	13 59	12 23	1 11	
T 31	4n 5	9s52	3s41	6n25	0s13	5s16	1s27	16n28	0n23	12s51	1n26	5n14	2s16	22s34	0n 1	21n30	1s21	8n47	17n43	20s42	21s 3	14s 0	12n24	1s11	

ASTRODIENST EPHEMERIS for the year 1733

geocentric

MAY 1733

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 35 38	10♂32'58	0♂46	25°R 1	28°Y12	5♂33	4°R18	22°Y34	13°R56	17♂59	18°R36	1°D23	2♂44	2♂44	7♂57	F 1
S 2	14 39 34	11°31'03	12°43	24♂56	29°26	6°14	4♂10	22°41	13♂54	18° 1	18♂34	1♂23	2°41	2°51	8° 1	S 2
S 3	14 43 31	12°29'06	24°47	24°46	0♂39	6°55	4° 3	22°48	13°52	18° 3	18°33	1°24	2°38	2°58	8° 5	S 3
M 4	14 47 27	13°27'07	7♂ 2	24°32	1°53	7°36	3°55	22°56	13°51	18° 5	18°31	1°26	2°34	3° 4	8° 9	M 4
T 5	14 51 24	14°25'07	19°31	24°13	3° 7	8°16	3°48	23° 3	13°48	18° 7	18°30	1°27	2°31	3°11	8°13	T 5
W 6	14 55 20	15°23'06	2♂17	23°51	4°20	8°57	3°41	23°10	13°46	18° 9	18°28	1°28	2°28	3°18	8°17	W 6
T 7	14 59 17	16°21'03	15°24	23°25	5°34	9°38	3°33	23°17	13°44	18°11	18°27	1°R29	2°25	3°24	8°21	T 7
F 8	15 3 13	17°18'59	28°55	22°56	6°48	10°18	3°26	23°25	13°42	18°13	18°25	1°28	2°22	3°31	8°25	F 8
S 9	15 7 10	18°16'54	12♂50	22°24	8° 2	10°59	3°19	23°32	13°40	18°15	18°24	1°27	2°19	3°38	8°29	S 9
S 10	15 11 7	19°14'47	27°11	21°51	9°15	11°39	3°11	23°39	13°38	18°17	18°22	1°26	2°15	3°44	8°34	S 10
M 11	15 15 3	20°12'39	11°Y53	21°16	10°29	12°20	3° 4	23°46	13°36	18°19	18°21	1°25	2°12	3°51	8°38	M 11
T 12	15 19 0	21°10'30	26°52	20°41	11°43	13° 0	2°57	23°53	13°34	18°21	18°20	1°24	2° 9	3°58	8°42	T 12
W 13	15 22 56	22° 8'20	12♂ 0	20° 5	12°56	13°41	2°50	24° 0	13°31	18°23	18°18	1°23	2° 6	4° 4	8°46	W 13
T 14	15 26 53	23° 6'08	27° 7	19°31	14°10	14°21	2°44	24° 7	13°29	18°25	18°17	1°D22	2° 3	4°11	8°50	T 14
F 15	15 30 49	24° 3'55	12♂ 5	18°57	15°24	15° 2	2°37	24°14	13°27	18°27	18°16	1°22	2° 0	4°18	8°53	F 15
S 16	15 34 46	25° 1'41	26°46	18°25	16°38	15°42	2°30	24°21	13°25	18°29	18°14	1°23	1°56	4°24	8°57	S 16
S 17	15 38 42	25°59'25	11♂ 3	17°55	17°51	16°22	2°24	24°28	13°22	18°31	18°13	1°23	1°53	4°31	9° 1	S 17
M 18	15 42 39	26°57'07	24°55	17°29	19° 5	17° 3	2°17	24°35	13°20	18°33	18°12	1°24	1°50	4°38	9° 5	M 18
T 19	15 46 36	27°54'48	8♂20	17° 5	20°19	17°43	2°11	24°42	13°18	18°35	18°11	1°24	1°47	4°44	9° 9	T 19
W 20	15 50 32	28°52'27	21°21	16°44	21°32	18°23	2° 5	24°48	13°15	18°38	18°10	1°24	1°44	4°51	9°13	W 20
T 21	15 54 29	29°50'04	3♂59	16°28	22°46	19° 3	1°59	24°55	13°13	18°40	18° 8	1°R24	1°40	4°57	9°17	T 21
F 22	15 58 25	0♂47'40	16°19	16°15	24° 0	19°43	1°53	25° 2	13°11	18°42	18° 7	1°24	1°37	5° 4	9°21	F 22
S 23	16 2 22	1°45'15	28°25	16° 7	25°13	20°23	1°47	25° 8	13° 8	18°44	18° 6	1°D24	1°34	5°11	9°25	S 23
S 24	16 6 18	2°42'48	10♂22	16°D 3	26°27	21° 3	1°41	25°15	13° 6	18°46	18° 5	1°24	1°31	5°17	9°29	S 24
M 25	16 10 15	3°40'20	22°12	16° 3	27°41	21°43	1°36	25°22	13° 3	18°48	18° 4	1°25	1°28	5°24	9°32	M 25
T 26	16 14 11	4°37'50	4♂ 0	16° 8	28°54	22°23	1°30	25°28	13° 1	18°50	18° 3	1°25	1°25	5°31	9°36	T 26
W 27	16 18 8	5°35'20	15°50	16°17	0♂ 8	23° 3	1°25	25°35	12°58	18°53	18° 2	1°25	1°21	5°37	9°40	W 27
T 28	16 22 5	6°32'48	27°43	16°31	1°22	23°43	1°20	25°41	12°56	18°55	18° 1	1°R25	1°18	5°44	9°44	T 28
F 29	16 26 1	7°30'15	9♂42	16°50	2°35	24°23	1°15	25°47	12°54	18°57	18° 0	1°25	1°15	5°51	9°47	F 29
S 30	16 29 58	8°27'41	21°49	17°12	3°49	25° 3	1°10	25°54	12°51	18°59	17°59	1°25	1°12	5°57	9°51	S 30
S 31	16 33 54	9♂25'06	4♂ 6	17♂39	5♂ 3	25♂43	1♂ 5	26°Y 0	12♂49	19♂ 1	17♂58	1♂24	1♂ 9	6♂ 4	9♂55	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
F 1	15n 0	20s24	0s 3	21n 4	2n 5	9n37	1s19	21n55	0n40	11s37	1n26	6n41	2s16	22s30	0n 0	21n36	1s20	9n 4	17n41	20s28	20s44	14s52	13n 2	1s13			
S 2	15 19	21 19	1n 2	20 53	1 55	10 5	1 17	22 3	0 41	11 35	1 26	6 44	2 16	22 30	0 0	21 36	1 20	9 4	17 41	20 28	20 44	14 53	13 3	1 13			
S 3	15 36	21 16	2 6	20 39	1 43	10 32	1 16	22 10	0 41	11 33	1 26	6 46	2 16	22 30	0 0	21 36	1 20	9 5	17 40	20 28	20 43	14 55	13 4	1 13			
M 4	15 54	20 13	3 5	20 23	1 30	10 59	1 15	22 17	0 41	11 30	1 26	6 49	2 16	22 29	0 0	21 37	1 20	9 5	17 40	20 29	20 42	14 56	13 6	1 13			
T 5	16 11	18 10	3 56	20 5	1 16	11 25	1 13	22 24	0 42	11 28	1 25	6 52	2 16	22 29	0 0	21 37	1 20	9 5	17 40	20 29	20 42	14 58	13 7	1 13			
W 6	16 28	15 11	4 37	19 45	1 1	11 51	1 12	22 31	0 42	11 25	1 25	6 54	2 16	22 29	0 0	21 37	1 20	9 6	17 40	20 29	20 41	14 59	13 8	1 13			
T 7	16 45	11 23	5 4	19 23	0 45	12 17	1 10	22 38	0 43	11 23	1 25	6 57	2 17	22 29	0 0	21 37	1 20	9 6	17 39	20 29	20 40	15 1	13 9	1 13			
F 8	17 2	6 55	5 17	19 0	0 29	12 43	1 9	22 44	0 43	11 21	1 25	6 59	2 17	22 28	0 0	21 37	1 20	9 6	17 39	20 29	20 40	15 3	13 10	1 13			
S 9	17 18	1 58	5 11	18 35	0 12	13 9	1 7	22 51	0 44	11 18	1 25	7 2	2 17	22 28	0 0	21 38	1 20	9 6	17 39	20 29	20 39	15 4	13 12	1 13			
S 10	17 34	3n15	4 46	18 10	0s 5	13 34	1 6	22 57	0 44	11 16	1 25	7 4	2 17	22 28	0 0	21 38	1 20	9 7	17 38	20 29	20 39	15 6	13 13	1 14			
M11	17 49	8 24	4 1	17 44	0 23	13 59	1 4	23 2	0 45	11 14	1 25	7 7	2 17	22 28	0 0	21 38	1 20	9 7	17 38	20 28	20 38	15 7	13 14	1 14			
T 12	18 5	13 10	3 0	17 18	0 40	14 23	1 2	23 8	0 45	11 11	1 25	7 9	2 17	22 27	0 0	21 38	1 20	9 7	17 38	20 28	20 37	15 9	13 15	1 14			
W13	18 20	17 8	1 46	16 52	0 58	14 47	1 0	23 13	0 45	11 9	1 24	7 12	2 17	22 27	0 0	21 39	1 20	9 7	17 37	20 28	20 37	15 10	13 16	1 14			
T 14	18 34	19 56	0 24	16 26	1 15	15 11	0 59	23 19	0 46	11 7	1 24	7 14	2 17	22 27	0 0	21 39	1 20	9 7	17 37	20 28	20 36	15 12	13 18	1 14			
F 15	18 49	21 18	0s59	16 1	1 32	15 34	0 57	23 24	0 46	11 5	1 24	7 17	2 17	22 27	0 0	21 39	1 20	9 7	17 37	20 28	20 35	15 13	13 19	1 14			
S 16	19 3	21 10	2 16	15 37	1 48	15 57	0 55	23 29	0 47	11 3	1 24	7 19	2 17	22 26	0 0	21 39	1 20	9 8	17 36	20 28	20 35	15 15	13 20	1 14			
S 17	19 17	19 38	3 23	15 14	2 3	16 20	0 53	23 33	0 47	11 1	1 24	7 22	2 18	22 26	0 0	21 39	1 20	9 8	17 36	20 28	20 34	15 16	13 21	1 14			
M18	19 30	16 59	4 16	14 52	2 18	16 42	0 51	23 38	0 47	10 59	1 24	7 24	2 18	22 26	0 0	21 40	1 19	9 8	17 36	20 28	20 33	15 18	13 22	1 14			
T 19	19 43	13 30	4 52	14 32	2 31	17 4	0 49	23 42	0 48	10 57	1 23	7 27	2 18	22 25	0 0	21 40	1 19	9 8	17 35	20 28	20 33	15 19	13 23	1 14			
W20	19 56	9 28	5 13	14 14	2 44	17 25	0 47	23 46	0 48	10 55	1 23	7 29	2 18	22 25	0 0	21 40	1 19	9 8	17 35	20 28	20 32	15 21	13 24	1 15			
T 21	20 9	5 8	5 17	13 58	2 56	17 46	0 45	23 50	0 49	10 53	1 23	7 31	2 18	22 25	0 0	21 40	1 19	9 8	17 35	20 28	20 32	15 23	13 26	1 15			
F 22	20 21	0 41	5 7	13 45	3 7	18 7	0 43	23 53	0 49	10 51	1 23	7 34	2 18	22 25	0 0	21 40	1 19	9 8	17 34	20 28	20 31	15 24	13 27	1 15			
S 23	20 32	3s42	4 43	13 33	3 16	18 27	0 40	23 57	0 49	10 49	1 23	7 36	2 18	22 24	0 0	21 41	1 19	9 8	17 34	20 28	20 30	15 26	13 28	1 15			
S 24	20 44	7 54	4 7	13 24	3 24	18 46	0 38	24 0	0 50	10 47	1 22	7 38	2 18	22 24	0 0	21 41	1 19	9 8	17 33	20 28	20 30	15 27	13 29	1 15			
M25	20 55	11 46	3 21	13 17	3 32	19 5	0 36	24 3	0 50	10 46	1 22	7 40	2 19	22 24	0 0	21 41	1 19	9 8	17 33	20 28	20 29	15 29	13 30	1 15			
T 26	21 6	15 10	2 27	13 13	3 38	19 23	0 34	24 6	0 50	10 44	1 22	7 43	2 19	22 23	0 0	21 41	1 19	9 8	17 32	20 28	20 28	15 30	13 31	1 15			
W27	21 16	17 58	1 26	13 11	3 43	19 41	0 32	24 8	0 51	10 42	1 22	7 45	2 19	22 23	0 0	21 41	1 19	9 8	17 32	20 28	20 28	15 31	13 32	1 15			
T 28	21 26	20 1	0 21	13 11	3 47	19 59	0 29	24 10	0 51	10 41	1 22	7 47	2 19	22 23	0 0	21 42	1 19	9 8	17 32	20 28	20 27	15 33	13 33	1 16			
F 29	21 36	20 11	0n46	13 13	3 49	20 16	0 27	24 13	0 51	10 39	1 21	7 49	2 19	22 23	0 0	21 42	1 19	9 8	17 31	20 28	20 26	15 34	13 34	1 16			
S 30	21 45	21 23	1 51	13 18	3 51	20 32	0 25	24 15	0 52	10 38	1 21	7 51	2 19	22 22	0 0	21 42	1 19	9 8	17 31	20 28	20 26	15 36	13 35	1 16			
S 31	21n54	20s33	2n52	13n24	3s52	20n48	0s23	24n16	0n52	10s36	1n21	7n53	2s19	22s22	0n 0	21n42	1s19	9n 8	17n30	20s28	20s25	15s37	13n36	1s16			

ASTRODIENST EPHEMERIS for the year 1733
geocentric

JUNE 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 37 51	10 ^{II} 22'31	16 ^{III} 34	18 ^{III} 10	6 ^{II} 16	26 ^{II} 23	1°R 0	26°V 6	12°R46	19 ^{II} 4	17°R57	1°R23	1 [♂] 6	6 ^{III} 11	9 ^{III} 58	M 1
T 2	16 41 47	11°19'55	29°16	18°46	7°30	27° 2	0 ^{III} 56	26°12	12 [♂] 44	19° 6	17 [♂] 57	1 [♂] 22	1° 2	6°17	10° 2	T 2
W 3	16 45 44	12°17'17	12 [♂] 12	19°25	8°44	27°42	0°52	26°18	12°41	19° 8	17°56	1°21	0°59	6°24	10° 6	W 3
T 4	16 49 40	13°14'40	25°25	20° 9	9°57	28°22	0°48	26°24	12°39	19°10	17°55	1°20	0°56	6°31	10° 9	T 4
F 5	16 53 37	14°12'01	8 [♂] 56	20°56	11°11	29° 2	0°44	26°30	12°36	19°13	17°54	1°D19	0°53	6°37	10°13	F 5
S 6	16 57 34	15° 9'23	22°45	21°47	12°25	29°41	0°40	26°36	12°34	19°15	17°53	1°19	0°50	6°44	10°16	S 6
S 7	17 1 30	16° 6'43	6°V53	22°42	13°38	0 ^{III} 21	0°36	26°42	12°31	19°17	17°53	1°20	0°46	6°51	10°20	S 7
M 8	17 5 27	17° 4'03	21°18	23°41	14°52	1° 0	0°33	26°48	12°29	19°19	17°52	1°21	0°43	6°57	10°23	M 8
T 9	17 9 23	18° 1'23	5 [♂] 57	24°43	16° 6	1°40	0°29	26°54	12°26	19°22	17°52	1°22	0°40	7° 4	10°27	T 9
W10	17 13 20	18°58'43	20°45	25°48	17°19	2°20	0°26	26°59	12°24	19°24	17°51	1°23	0°37	7°11	10°30	W10
T 11	17 17 16	19°56'02	5 ^{II} 36	26°57	18°33	2°59	0°23	27° 5	12°22	19°26	17°50	1°R23	0°34	7°17	10°34	T 11
F 12	17 21 13	20°53'20	20°22	28°10	19°47	3°39	0°21	27°11	12°19	19°28	17°50	1°22	0°31	7°24	10°37	F 12
S 13	17 25 9	21°50'38	4 ^{III} 57	29°25	21° 1	4°18	0°18	27°16	12°17	19°30	17°49	1°21	0°27	7°31	10°40	S 13
S 14	17 29 6	22°47'55	19°14	0 ^{II} 44	22°14	4°58	0°16	27°21	12°14	19°33	17°49	1°18	0°24	7°37	10°43	S 14
M15	17 33 3	23°45'12	3 ^{III} 8	2° 6	23°28	5°37	0°13	27°27	12°12	19°35	17°48	1°15	0°21	7°44	10°47	M15
T 16	17 36 59	24°42'28	16°38	3°32	24°42	6°16	0°11	27°32	12°10	19°37	17°48	1°12	0°18	7°51	10°50	T 16
W17	17 40 56	25°39'43	29°42	5° 0	25°55	6°56	0° 9	27°37	12° 7	19°39	17°48	1° 9	0°15	7°57	10°53	W17
T 18	17 44 52	26°36'57	12 ^{III} 24	6°32	27° 9	7°35	0° 8	27°42	12° 5	19°42	17°47	1° 7	0°12	8° 4	10°56	T 18
F 19	17 48 49	27°34'11	24°46	8° 7	28°23	8°14	0° 6	27°48	12° 2	19°44	17°47	1°D 6	0° 8	8°11	10°59	F 19
S 20	17 52 45	28°31'24	6 ^{III} 52	9°45	29°36	8°54	0° 5	27°53	12° 0	19°46	17°47	1° 7	0° 5	8°17	11° 2	S 20
S 21	17 56 42	29°28'36	18°48	11°26	0 ^{III} 50	9°33	0° 4	27°57	11°58	19°48	17°46	1° 8	0° 2	8°24	11° 5	S 21
M22	18 0 38	0 ^{III} 25'48	0 ^{III} 38	13°10	2° 4	10°12	0° 3	28° 2	11°55	19°51	17°46	1° 9	29 ^{III} 59	8°31	11° 8	M22
T 23	18 4 35	1°23'00	12°26	14°57	3°18	10°51	0° 2	28° 7	11°53	19°53	17°46	1°11	29°56	8°37	11°11	T 23
W24	18 8 32	2°20'11	24°18	16°47	4°31	11°30	0° 1	28°12	11°51	19°55	17°46	1°12	29°52	8°44	11°14	W24
T 25	18 12 28	3°17'21	6 [♂] 16	18°40	5°45	12°10	0° 1	28°16	11°49	19°57	17°46	1°R12	29°49	8°51	11°17	T 25
F 26	18 16 25	4°14'32	18°24	20°35	6°59	12°49	0° 0	28°21	11°46	19°59	17°46	1°11	29°46	8°57	11°20	F 26
S 27	18 20 21	5°11'42	0 ^{III} 345	22°33	8°13	13°28	0°D 0	28°25	11°44	20° 1	17°46	1° 8	29°43	9° 4	11°23	S 27
S 28	18 24 18	6° 8'52	13°18	24°33	9°26	14° 7	0° 0	28°30	11°42	20° 4	17°D46	1° 4	29°40	9°10	11°26	S 28
M29	18 28 14	7° 6'02	26° 6	26°35	10°40	14°46	0° 1	28°34	11°40	20° 6	17°46	0°58	29°37	9°17	11°28	M29
T 30	18 32 11	8 ^{III} 3'12	9 [♂] 7	28 ^{II} 39	11 ^{III} 54	15 ^{III} 25	0 ^{III} 1	28°V38	11 [♂] 38	20 ^{II} 8	17 [♂] 46	0 [♂] 52	29 ^{III} 33	9 ^{III} 24	11 [♂] 31	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	22n 2	18s43	3n45	13n33	3s52	21n 3	0s20	24n18	0n53	10s35	1n21	7n56	2s20	22s22	0s 0	21n42	1s19	9n 8	17n30	20s28	20s24	15s39	13n37	1s16	
T 2	22 10	15 57	4 29	13 44	3 51	21 18	0 18	24 19	0 53	10 34	1 20	7 58	2 20	22 21	0 0	21 43	1 19	9 8	17 29	20 28	20 24	15 40	13 38	1 16	
W 3	22 18	12 22	4 59	13 56	3 49	21 32	0 16	24 20	0 53	10 32	1 20	8 0	2 20	22 21	0 0	21 43	1 19	9 7	17 29	20 27	20 23	15 42	13 40	1 16	
T 4	22 25	8 7	5 15	14 10	3 46	21 45	0 13	24 21	0 54	10 31	1 20	8 2	2 20	22 21	0 0	21 43	1 19	9 7	17 28	20 27	20 22	15 43	13 41	1 16	
F 5	22 32	3 23	5 14	14 26	3 42	21 58	0 11	24 22	0 54	10 30	1 20	8 4	2 20	22 20	0 0	21 43	1 19	9 7	17 28	20 27	20 22	15 45	13 42	1 16	
S 6	22 39	1n38	4 55	14 44	3 38	22 10	0 8	24 23	0 54	10 29	1 19	8 6	2 20	22 20	0 0	21 43	1 19	9 7	17 27	20 27	20 21	15 46	13 42	1 17	
S 7	22 45	6 41	4 18	15 2	3 33	22 22	0 6	24 23	0 55	10 28	1 19	8 8	2 21	22 20	0 0	21 43	1 19	9 7	17 27	20 27	20 20	15 48	13 43	1 17	
M 8	22 51	11 28	3 24	15 22	3 27	22 33	0 4	24 23	0 55	10 27	1 19	8 9	2 21	22 19	0 0	21 44	1 19	9 6	17 26	20 28	20 20	15 49	13 44	1 17	
T 9	22 56	15 40	2 16	15 44	3 21	22 43	0 1	24 23	0 55	10 26	1 19	8 11	2 21	22 19	0 0	21 44	1 19	9 6	17 26	20 28	20 19	15 50	13 45	1 17	
W10	23 1	18 54	0 59	16 6	3 14	22 53	0n 1	24 23	0 55	10 25	1 18	8 13	2 21	22 19	0 0	21 44	1 19	9 6	17 25	20 28	20 18	15 52	13 46	1 17	
T 11	23 5	20 53	0s23	16 29	3 6	23 2	0 3	24 22	0 56	10 24	1 18	8 15	2 21	22 19	0 0	21 44	1 19	9 6	17 25	20 28	20 18	15 53	13 47	1 17	
F 12	23 10	21 25	1 43	16 53	2 58	23 10	0 6	24 21	0 56	10 24	1 18	8 17	2 21	22 18	0 0	21 44	1 19	9 5	17 24	20 28	20 17	15 55	13 48	1 17	
S 13	23 13	20 28	2 55	17 18	2 49	23 18	0 8	24 20	0 56	10 23	1 18	8 19	2 22	22 18	0 0	21 45	1 19	9 5	17 24	20 27	20 16	15 56	13 49	1 18	
S 14	23 17	18 14	3 54	17 44	2 40	23 25	0 11	24 19	0 57	10 22	1 17	8 20	2 22	22 18	0 0	21 45	1 19	9 5	17 23	20 27	20 16	15 58	13 50	1 18	
M15	23 19	14 58	4 38	18 10	2 30	23 32	0 13	24 18	0 57	10 22	1 17	8 22	2 22	22 17	0 0	21 45	1 19	9 4	17 23	20 26	20 15	15 59	13 51	1 18	
T 16	23 22	11 2	5 5	18 36	2 20	23 37	0 15	24 17	0 57	10 21	1 17	8 24	2 22	22 17	0 0	21 45	1 19	9 4	17 22	20 26	20 14	16 0	13 52	1 18	
W17	23 24	6 40	5 15	19 2	2 10	23 42	0 18	24 15	0 58	10 21	1 17	8 26	2 22	22 17	0 0	21 45	1 19	9 4	17 22	20 25	20 14	16 2	13 53	1 18	
T 18	23 26	2 10	5 9	19 29	1 59	23 46	0 20	24 13	0 58	10 20	1 16	8 27	2 23	22 16	0 0	21 45	1 19	9 3	17 21	20 25	20 13	16 3	13 53	1 18	
F 19	23 27	2s20	4 48	19 55	1 48	23 50	0 22	24 11	0 58	10 20	1 16	8 29	2 23	22 16	0 0	21 46	1 19	9 3	17 21	20 25	20 12	16 5	13 54	1 18	
S 20	23 28	6 38	4 16	20 21	1 36	23 53	0 24	24 9	0 58	10 20	1 16	8 30	2 23	22 16	0 0	21 46	1 19	9 3	17 20	20 25	20 12	16 6	13 55	1 19	
S 21	23 28	10 39	3 32	20 47	1 25	23 55	0 27	24 6	0 59	10 20	1 16	8 32	2 23	22 16	0 0	21 46	1 19	9 2	17 19	20 25	20 11	16 7	13 56	1 19	
M22	23 28	14 12	2 40	21 12	1 13	23 56	0 29	24 4	0 59	10 20	1 15	8 33	2 23	22 15	0 0	21 46	1 19	9 2	17 19	20 25	20 10	16 9	13 57	1 19	
T 23	23 28	17 12	1 41	21 37	1 1	23 57	0 31	24 1	0 59	10 20	1 15	8 35	2 24	22 15	0 0	21 46	1 19	9 1	17 18	20 26	20 10	16 10	13 57	1 19	
W24	23 27	19 29	0 38	22 0	0 49	23 57	0 33	23 58	0 59	10 20	1 15	8 36	2 24	22 15	0 0	21 46	1 19	9 1	17 18	20 26	20 9	16 12	13 58	1 19	
T 25	23 26	20 56	0n28	22 22	0 37	23 56	0 36	23 54	1 0	10 20	1 14	8 38	2 24	22 14	0 0	21 47	1 19	9 0	17 17	20 26	20 8	16 13	13 59	1 19	
F 26	23 24	21 26	1 33	22 43	0 25	23 55	0 38	23 51	1 0	10 20	1 14	8 39	2 24	22 14	0 0	21 47	1 19	9 0	17 17	20 26	20 8	16 14	14 0	1 19	
S 27	23 22	20 54	2 34	23 2	0 14	23 53	0 40	23 47	1 0	10 20	1 14	8 41	2 24	22 14	0 0	21 47	1 19	8 59	17 16	20 25	20 7	16 16	14 0	1 20	
S 28	23 20	19 20	3 30	23 19	0 2	23 50	0 42	23 44	1 0	10 20	1 14	8 42	2 25	22 13	0 0	21 47	1 19	8 59	17 15	20 24	20 6	16 17	14 1	1 20	
M29	23 17	16 47	4 15	23 35	0n 9	23 47	0 44	23 40	1 1	10 21	1 13	8 43	2 25	22 13	0 0	21 47	1 19	8 58	17 15	20 23	20 6	16 18	14 2	1 20	
T 30	23n14	13s21	4n49	23n48	0n20	23n42	0n46	23n35	1n 1	10s21	1n13	8n45	2s25	22s13	0s 0	21n47	1s19	8n58	17n14	20s22	20s 5	16s20	14n 2	1s20	

ASTRODIENST EPHEMERIS for the year 1733
geocentric

JULY 1733

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	18 36 8	9°52'02	22°28'23	05°45'13	13°58'08	16°58'04	0°11'02	28°47'42	11°R36	20°II10	17°46'46	0°R46	29°M30	9°M30	11°8'34	W 1
T 2	18 40 4	9°57'33	5°36'51	2°52'14	14°21'16	16°43'00	0°02'28	28°46'11	11°R34	20°12'17	17°46'00	0°R41	29°27'29	9°37'11	11°36'11	T 2
F 3	18 44 1	10°54'43	19°31'00	5°00'15	15°35'17	17°22'00	0°03'28	28°50'11	11°32'20	20°14'17	17°46'00	0°38'29	29°24'29	9°44'11	11°39'11	F 3
S 4	18 47 57	11°51'54	3°V23	7°09'16	16°49'18	18°01'00	0°05'28	28°54'11	11°30'20	20°17'17	17°46'00	0°36'29	29°21'29	9°50'11	11°41'11	S 4
S 5	18 51 54	12°49'06	17°25'09	9°19'18	18°03'18	18°40'00	0°06'28	28°58'11	11°28'20	20°19'17	17°46'00	0°D36	29°18'29	9°57'11	11°44'11	S 5
M 6	18 55 50	13°46'18	1°B36	11°29'19	19°16'19	19°19'00	0°07'29	29°02'11	11°26'20	20°21'17	17°47'00	0°37'29	29°14'10	10°04'11	11°46'11	M 6
T 7	18 59 47	14°43'30	15°56'13	13°38'20	20°30'19	19°57'00	0°09'29	29°06'11	11°24'20	20°23'17	17°47'00	0°38'29	29°11'10	10°10'11	11°48'11	T 7
W 8	19 3 43	15°40'43	0°II21	15°48'21	21°44'20	20°36'00	0°11'29	29°09'11	11°22'20	20°25'17	17°47'00	0°R39	29°08'10	10°17'11	11°51'11	W 8
T 9	19 7 40	16°37'57	14°48'17	17°56'22	22°58'21	21°15'00	0°13'29	29°13'11	11°20'20	20°27'17	17°48'00	0°38'29	29°05'10	10°24'11	11°53'11	T 9
F 10	19 11 37	17°35'11	29°12'20	20°05'24	24°12'21	21°54'00	0°15'29	29°16'11	11°18'20	20°29'17	17°48'00	0°35'29	29°02'10	10°30'11	11°55'11	F 10
S 11	19 15 33	18°32'25	13°52'29	22°12'25	25°25'22	22°33'00	0°18'29	29°19'11	11°16'20	20°31'17	17°49'00	0°30'28	28°58'10	10°37'11	11°57'11	S 11
S 12	19 19 30	19°29'40	27°32'24	24°17'26	26°39'23	23°12'00	0°20'29	29°22'11	11°14'20	20°33'17	17°49'00	0°23'28	28°55'10	10°44'11	11°59'11	S 12
M13	19 23 26	20°26'55	11°51'18	26°22'27	27°53'23	23°50'00	0°23'29	29°25'11	11°13'20	20°35'17	17°50'00	0°15'28	28°52'10	10°50'11	12°01'11	M13
T 14	19 27 23	21°24'10	24°43'28	28°25'29	29°07'24	24°29'00	0°26'29	29°28'11	11°11'20	20°37'17	17°50'00	0°07'28	28°49'10	10°57'11	12°03'11	T 14
W15	19 31 19	22°21'26	7°M46	0°M27	0°M21	25°08'00	0°29'29	29°31'11	11°09'20	20°39'17	17°51'00	29°M59	28°46'11	11°04'12	12°05'11	W15
T 16	19 35 16	23°18'41	20°27'02	2°27'01	1°35'25	25°47'00	0°32'29	29°34'11	11°08'20	20°41'17	17°51'00	29°53'28	28°43'11	11°10'12	12°07'11	T 16
F 17	19 39 12	24°15'57	2°49'04	4°26'02	2°48'26	26°25'00	0°36'29	29°37'11	11°06'20	20°43'17	17°52'00	29°48'28	28°39'11	11°17'12	12°09'11	F 17
S 18	19 43 9	25°13'14	14°56'06	6°22'04	4°02'27	27°04'00	0°39'29	29°39'11	11°05'20	20°45'17	17°53'00	29°46'28	28°36'11	11°24'12	12°11'11	S 18
S 19	19 47 6	26°10'30	26°52'08	8°17'05	5°16'27	27°43'00	0°43'29	29°42'11	11°03'20	20°47'17	17°53'00	29°D45	28°33'11	11°30'12	12°12'11	S 19
M20	19 51 2	27°07'47	8°M41	10°11'06	6°30'28	28°21'00	0°47'29	29°44'11	11°02'20	20°49'17	17°54'00	29°46'28	28°30'11	11°37'12	12°14'11	M20
T 21	19 54 59	28°05'05	20°31'12	12°02'07	7°44'29	29°00'00	0°51'29	29°47'11	11°00'20	20°50'17	17°55'00	29°47'28	28°27'11	11°43'12	12°16'11	T 21
W22	19 58 55	29°02'23	2°M25	13°52'08	8°58'29	29°38'00	0°55'29	29°49'10	10°59'20	20°52'17	17°55'00	29°R47	28°24'11	11°50'12	12°17'11	W22
T 23	20 2 52	29°59'41	14°28'15	15°41'10	10°12'00	0°M17	1°00'29	29°51'10	10°58'20	20°54'17	17°56'00	29°46'28	28°20'11	11°57'12	12°19'11	T 23
F 24	20 6 48	0°M57'00	26°44'17	11°25'00	5°56'01	1°04'29	29°53'10	10°56'20	10°56'20	20°56'17	17°57'00	29°43'28	28°17'12	12°03'12	12°20'11	F 24
S 25	20 10 45	1°54'19	9°S17	19°12'12	12°39'01	1°34'09	29°55'10	10°55'20	10°55'20	20°58'17	17°58'00	29°37'28	28°14'12	12°10'12	12°22'11	S 25
S 26	20 14 41	2°51'39	22°07'20	20°55'13	13°53'02	2°13'01	29°57'10	10°54'21	11°00'17	20°59'28	17°59'00	29°29'28	28°11'12	12°17'12	12°23'11	S 26
M27	20 18 38	3°49'00	5°M16	22°36'15	15°07'02	2°51'01	29°59'10	10°53'21	11°00'18	20°59'28	17°59'00	29°19'28	28°08'12	12°23'12	12°24'11	M27
T 28	20 22 35	4°46'22	18°41'24	24°16'16	16°21'16	3°30'12	29°59'10	0°B0	10°51'21	21°03'18	1°00'29	29°09'28	28°04'12	12°30'12	12°26'11	T 28
W29	20 26 31	5°43'45	2°H21	25°54'17	17°35'04	4°08'12	29°59'10	0°2'10	10°50'21	21°05'18	1°00'28	28°58'28	28°01'12	12°37'12	12°27'11	W29
T 30	20 30 28	6°41'08	16°12'27	27°30'18	18°49'04	4°47'13	29°59'10	0°3'10	10°49'21	21°06'18	1°00'28	28°49'27	27°58'12	12°43'12	12°28'11	T 30
F 31	20 34 24	7°38'33	0°V11	29°05'20	20°M2	5°M25	29°59'10	0°B4	10°48'21	21°II8	18°4'28	28°M42	27°M55	12°M50	12°B29	F 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	decl	decl	decl	decl	lat	decl	decl	decl	lat
W 1	23n10	9s14	5n 7	23n58	0n30	23n37	0n48	23n31	1n 1	10s22	1n13	8n46	2s25	22s13	0s 0	21n48	1s19	8n57	17n14	20s20	20s 4	16s21	14n 3	1s20									
T 2	23 6	4 35	5 9	24 7	0 40	23 32	0 50	23 26	1 1	10 22	1 13	8 47	2 26	22 12	0 0	21 48	1 19	8 57	17 13	20 19	20 4	16 22	14 4	1 20									
F 3	23 1	0n21	4 54	24 12	0 50	23 25	0 52	23 22	1 2	10 23	1 12	8 48	2 26	22 12	0 0	21 48	1 19	8 56	17 13	20 19	20 3	16 24	14 4	1 20									
S 4	22 57	5 20	4 21	24 15	0 59	23 18	0 54	23 17	1 2	10 23	1 12	8 49	2 26	22 12	0 0	21 48	1 19	8 55	17 12	20 18	20 2	16 25	14 5	1 21									
S 5	22 51	10 7	3 33	24 15	1 7	23 11	0 56	23 12	1 2	10 24	1 12	8 51	2 26	22 12	0 0	21 48	1 19	8 55	17 11	20 18	20 2	16 26	14 6	1 21									
M 6	22 46	14 24	2 31	24 13	1 14	23 2	0 58	23 6	1 2	10 25	1 11	8 52	2 27	22 11	0 0	21 48	1 19	8 54	17 11	20 18	20 1	16 28	14 6	1 21									
T 7	22 39	17 53	1 19	24 7	1 21	22 53	0 59	23 1	1 3	10 26	1 11	8 53	2 27	22 11	0 0	21 48	1 19	8 54	17 10	20 19	20 0	16 29	14 7	1 21									
W 8	22 33	20 17	0 2	23 59	1 27	22 43	1 1	22 55	1 3	10 27	1 11	8 54	2 27	22 11	0 0	21 49	1 19	8 53	17 10	20 19	20 0	16 30	14 7	1 21									
T 9	22 26	21 21	1s16	23 48	1 33	22 33	1 3	22 50	1 3	10 28	1 11	8 55	2 27	22 11	0 0	21 49	1 19	8 52	17 9	20 19	19 59	16 32	14 8	1 21									
F 10	22 19	21 0	2 28	23 34	1 37	22 22	1 5	22 44	1 3	10 29	1 10	8 56	2 28	22 10	0 0	21 49	1 19	8 52	17 9	20 18	19 58	16 33	14 8	1 22									
S 11	22 11	19 18	3 30	23 18	1 41	22 10	1 6	22 38	1 3	10 30	1 10	8 57	2 28	22 10	0 0	21 49	1 19	8 51	17 8	20 17	19 57	16 34	14 9	1 22									
S 12	22 3	16 27	4 19	23 0	1 44	21 58	1 8	22 31	1 4	10 31	1 10	8 57	2 28	22 10	0 0	21 49	1 19	8 50	17 7	20 16	19 57	16 36	14 9	1 22									
M13	21 55	12 45	4 51	22 39	1 46	21 45	1 9	22 25	1 4	10 32	1 10	8 58	2 28	22 10	0 0	21 49	1 19	8 49	17 7	20 14	19 56	16 37	14 10	1 22									
T 14	21 46	8 30	5 6	22 16	1 48	21 31	1 11	22 18	1 4	10 33	1 9	8 59	2 29	22 9	0 0	21 49	1 19	8 49	17 6	20 12	19 55	16 38	14 10	1 22									
W15	21 37	3 58	5 4	21 51	1 49	21 17	1 12	22 11	1 4	10 35	1 9	9 0	2 29	22 9	0 0	21 49	1 19	8 48	17 6	20 11	19 55	16 39	14 11	1 22									
T 16	21 27	0s37	4 48	21 25	1 49	21 2	1 13	22 4	1 4	10 36	1 9	9 1	2 29	22 9	0 0	21 50	1 19	8 47	17 5	20 9	19 54	16 41	14 11	1 23									
F 17	21 18	5 4	4 18	20 56	1 49	20 46	1 15	21 57	1 5	10 38	1 8	9 1	2 29	22 9	0 0	21 50	1 19	8 47	17 5	20 8	19 53	16 42	14 11	1 23									
S 18	21 7	9 14	3 37	20 26	1 47	20 30	1 16	21 50	1 5	10 39	1 8	9 2	2 30	22 9	0 0	21 50	1 19	8 46	17 4	20 8	19 53	16 43	14 12	1 23									
S 19	20 57	12 58	2 47	19 55	1 46	20 13	1 17	21 43	1 5	10 41	1 8	9 3	2 30	22 8	0 0	21 50	1 19	8 45	17 3	20 8	19 52	16 45	14 12	1 23									
M20	20 46	16 10	1 51	19 23	1 43	19 56	1 18	21 35	1 5	10 42	1 8	9 3	2 30	22 8	0 0	21 50	1 19	8 44	17 3	20 8	19 51	16 46	14 13	1 23									
T 21	20 34	18 42	0 50	18 49	1 41	19 38	1 19	21 27	1 5	10 44	1 7	9 4	2 30	22 8	0 0	21 50	1 19	8 43	17 2	20 8	19 50	16 47	14 13	1 23									
W22	20 23	20 27	0n14	18 14	1 37	19 20	1 20	21 19	1 5	10 46	1 7	9 4	2 31	22 8	0 0	21 50	1 19	8 43	17 2	20 8	19 50	16 48	14 13	1 24									
T 23	20 11	21 17	1 18	17 38	1 33	19 1	1 21	21 11	1 6	10 47	1 7	9 5	2 31	22 8	0 0	21 50	1 19	8 42	17 1	20 8	19 49	16 50	14 13	1 24									
F 24	19 58	21 7	2 19	17 2	1 29	18 42	1 22	21 3	1 6	10 49	1 7	9 5	2 31	22 7	0 0	21 50	1 19	8 41	17 1	20 7	19 48	16 51	14 14	1 24									
S 25	19 46	19 55	3 15	16 25	1 24	18 22	1 23	20 55	1 6	10 51	1 6	9 6	2 31	22 7	0 0	21 51	1 19	8 40	17 0	20 6	19 48	16 52	14 14	1 24									
S 26	19 33	17 41	4 2	15 47	1 19	18 1	1 24	20 46	1 6	10 53	1 6	9 6	2 32	22 7	0 0	21 51	1 19	8 39	17 0	20 4	19 47	16 53	14 14	1 24									
M27	19 20	14 30	4 37	15 9	1 13	17 40	1 25	20 37	1 6	10 55	1 6	9 6	2 32	22 7	0 0	21 51	1 20	8 38	16 59	20 2	19 46	16 55	14 14	1 24									
T 28	19 6	10 31	4 58	14 30	1 7	17 19	1 25	20 29	1 6	10 57	1 6	9 7	2 32	22 7	0 0	21 51	1 20	8 38	16 59	20 0	19 46	16 56	14 15	1 25									
W29	18 52	5 57	5 2	13 51	1 0	16 57	1 26	20 20	1 7	10 59	1 5	9 7	2 32	22 7	0 0	21 51	1 20	8 37	16 58	19 57	19 45	16 57	14 15	1 25									
T 30	18 38	1 0	4 49	13 12	0 53	16 34	1 26	20 11	1 7	11 1	1 5	9 7	2 33	22 7	0 0	21 51	1 20	8 36	16 57	19 55	19 44	16 58	14 15	1 25									
F 31	18n23	4n 2	4n19	12n32	0n46	16n12	1n27	20n 1	1n 7	11s 3	1n 5	9n 8	2s33	22s 6	0s 1	21n51	1s20	8n35	16n57	19s54	19s43	16s59	14n15	1s25									

ASTRODIENST EPHEMERIS for the year 1733
geocentric

AUGUST 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 21	8♌35°59	14♍15	0♍38	21♌16	6♌ 3	1♌46	0♌ 6	10°R47	21♌10	18♌ 5	28°R38	27♌52	12♌57	12♌30	S 1
S 2	20 42 17	9°33'26	28°22	2° 9	22°30	6°42	1°52	0° 7	10°47	21°11	18° 6	28♌36	27°49	13° 3	12°31	S 2
M 3	20 46 14	10°30'55	12♌30	3°38	23°44	7°20	1°58	0° 8	10°46	21°13	18° 8	28°D35	27°45	13°10	12°32	M 3
T 4	20 50 10	11°28'25	26°38	5° 6	24°58	7°59	2° 4	0° 9	10°45	21°15	18° 9	28°R36	27°42	13°17	12°33	T 4
W 5	20 54 7	12°25'57	10♌44	6°32	26°12	8°37	2°11	0°10	10°44	21°16	18°10	28°35	27°39	13°23	12°33	W 5
T 6	20 58 4	13°23'29	24°48	7°57	27°26	9°16	2°17	0°10	10°43	21°18	18°11	28°33	27°36	13°30	12°34	T 6
F 7	21 2 0	14°21'04	8♌47	9°19	28°40	9°54	2°24	0°11	10°43	21°19	18°13	28°28	27°33	13°37	12°35	F 7
S 8	21 5 57	15°18'39	22°39	10°40	29°53	10°32	2°31	0°11	10°42	21°21	18°14	28°21	27°29	13°43	12°35	S 8
S 9	21 9 53	16°16'16	6♌20	11°59	1♍ 7	11°11	2°37	0°12	10°42	21°22	18°15	28°11	27°26	13°50	12°36	S 9
M10	21 13 50	17°13'54	19°48	13°16	2°21	11°49	2°44	0°12	10°41	21°24	18°17	27°59	27°23	13°57	12°36	M10
T 11	21 17 46	18°11'33	3♍ 0	14°31	3°35	12°27	2°52	0°12	10°41	21°25	18°18	27°46	27°20	14° 3	12°37	T 11
W12	21 21 43	19° 9'14	15°53	15°44	4°49	13° 6	2°59	0°R12	10°40	21°26	18°19	27°35	27°17	14°10	12°37	W12
T 13	21 25 39	20° 6'55	28°28	16°55	6° 3	13°44	3° 6	0°12	10°40	21°28	18°21	27°24	27°14	14°16	12°37	T 13
F 14	21 29 36	21° 4'38	10♌47	18° 4	7°17	14°22	3°14	0°12	10°40	21°29	18°22	27°17	27°10	14°23	12°38	F 14
S 15	21 33 33	22° 2'22	22°51	19°10	8°31	15° 1	3°22	0°12	10°39	21°30	18°24	27°11	27° 7	14°30	12°38	S 15
S 16	21 37 29	23° 0'07	4♍46	20°14	9°45	15°39	3°29	0°11	10°39	21°32	18°25	27° 9	27° 4	14°36	12°38	S 16
M17	21 41 26	23°57'53	16°35	21°16	10°58	16°17	3°37	0°11	10°39	21°33	18°27	27° 8	27° 1	14°43	12°R38	M17
T 18	21 45 22	24°55'41	28°24	22°15	12°12	16°55	3°46	0°10	10°39	21°34	18°29	27° 8	26°58	14°50	12°38	T 18
W19	21 49 19	25°53'29	10♌18	23°12	13°26	17°34	3°54	0°10	10°39	21°35	18°30	27° 7	26°55	14°56	12°38	W19
T 20	21 53 15	26°51'19	22°23	24° 5	14°40	18°12	4° 2	0° 9	10°D39	21°37	18°32	27° 6	26°51	15° 3	12°38	T 20
F 21	21 57 12	27°49'10	4♌43	24°56	15°54	18°50	4°10	0° 8	10°39	21°38	18°34	27° 2	26°48	15°10	12°38	F 21
S 22	22 1 8	28°47'03	17°24	25°43	17° 8	19°28	4°19	0° 7	10°39	21°39	18°35	26°56	26°45	15°16	12°37	S 22
S 23	22 5 5	29°44'56	0♌26	26°27	18°22	20° 6	4°28	0° 6	10°39	21°40	18°37	26°47	26°42	15°23	12°37	S 23
M24	22 9 2	0♍42'51	13°51	27° 7	19°35	20°45	4°36	0° 5	10°39	21°41	18°39	26°36	26°39	15°30	12°37	M24
T 25	22 12 58	1°40'48	27°38	27°43	20°49	21°23	4°45	0° 3	10°39	21°42	18°41	26°24	26°35	15°36	12°36	T 25
W26	22 16 55	2°38'46	11♌42	28°15	22° 3	22° 1	4°54	0° 2	10°40	21°43	18°42	26°12	26°32	15°43	12°36	W26
T 27	22 20 51	3°36'46	26° 0	28°43	23°17	22°39	5° 3	0° 1	10°40	21°44	18°44	26° 2	26°29	15°50	12°35	T 27
F 28	22 24 48	4°34'47	10♍24	29° 6	24°31	23°17	5°13	29°V59	10°40	21°45	18°46	25°54	26°26	15°56	12°35	F 28
S 29	22 28 44	5°32'51	24°50	29°24	25°45	23°55	5°22	29°57	10°41	21°46	18°48	25°49	26°23	16° 3	12°34	S 29
S 30	22 32 41	6°30'56	9♌12	29°38	26°58	24°34	5°31	29°55	10°41	21°47	18°50	25°46	26°20	16° 9	12°33	S 30
M31	22 36 37	7♍29'03	23♌28	29♍45	28♍12	25♌12	5♍41	29°V54	10°42	21°47	18°52	25°D45	26♌16	16♌16	12♌32	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	18n 8	8n54	3n33	11n52	0n39	15n48	1n27	19n52	1n 7	11s 6	1n 5	9n 8	2s33	22s 6	0s 1	21n51
S 2	17 53	13 18	2 33	11 12	0 31	15 25	1 27	19 42	1 7	11 8	1 4	9 8	2 34	22 6	0 1	21 51
M 3	17 38	16 57	1 24	10 32	0 23	15 0	1 28	19 33	1 7	11 10	1 4	9 8	2 34	22 6	0 1	21 51
T 4	17 22	19 36	0 10	9 53	0 14	14 36	1 28	19 23	1 7	11 13	1 4	9 8	2 34	22 6	0 1	21 51
W 5	17 6	21 2	1s 4	9 13	0 6	14 11	1 28	19 13	1 8	11 15	1 4	9 8	2 34	22 6	0 1	21 52
T 6	16 49	21 8	2 14	8 33	0s 3	13 46	1 28	19 3	1 8	11 17	1 3	9 8	2 35	22 6	0 1	21 52
F 7	16 33	19 55	3 16	7 54	0 12	13 20	1 28	18 53	1 8	11 20	1 3	9 8	2 35	22 6	0 1	21 52
S 8	16 16	17 32	4 5	7 15	0 21	12 54	1 28	18 43	1 8	11 23	1 3	9 8	2 35	22 6	0 1	21 52
S 9	15 59	14 12	4 40	6 36	0 31	12 28	1 28	18 32	1 8	11 25	1 3	9 8	2 35	22 6	0 1	21 52
M10	15 42	10 11	4 58	5 58	0 40	12 1	1 28	18 22	1 8	11 28	1 2	9 8	2 36	22 5	0 1	21 52
T 11	15 24	5 45	5 0	5 20	0 50	11 34	1 27	18 11	1 8	11 30	1 2	9 7	2 36	22 5	0 1	21 52
W12	15 6	1 11	4 46	4 43	1 0	11 6	1 27	18 0	1 8	11 33	1 2	9 7	2 36	22 5	0 1	21 52
T 13	14 48	3s21	4 18	4 6	1 10	10 39	1 27	17 49	1 9	11 36	1 2	9 7	2 36	22 5	0 1	21 52
F 14	14 30	7 38	3 39	3 30	1 20	10 11	1 26	17 38	1 9	11 39	1 2	9 7	2 37	22 5	0 1	21 52
S 15	14 11	11 33	2 51	2 55	1 30	9 43	1 26	17 27	1 9	11 41	1 1	9 6	2 37	22 5	0 1	21 52
S 16	13 52	14 57	1 56	2 21	1 40	9 14	1 25	17 16	1 9	11 44	1 1	9 6	2 37	22 5	0 1	21 52
M17	13 33	17 42	0 56	1 47	1 50	8 46	1 24	17 4	1 9	11 47	1 1	9 6	2 38	22 5	0 1	21 52
T 18	13 14	19 43	0n 7	1 14	2 0	8 17	1 24	16 53	1 9	11 50	1 1	9 5	2 38	22 5	0 1	21 52
W19	12 54	20 53	1 9	0 43	2 10	7 48	1 23	16 41	1 9	11 53	1 1	9 5	2 38	22 5	0 1	21 52
T 20	12 35	21 6	2 10	0 12	2 20	7 18	1 22	16 30	1 9	11 56	1 0	9 4	2 38	22 5	0 1	21 52
F 21	12 15	20 18	3 5	0s17	2 30	6 49	1 21	16 18	1 9	11 59	1 0	9 4	2 39	22 5	0 1	21 52
S 22	11 55	18 29	3 53	0 45	2 40	6 19	1 20	16 6	1 9	12 2	1 0	9 3	2 39	22 5	0 1	21 52
S 23	11 35	15 41	4 30	1 11	2 50	5 49	1 19	15 54	1 10	12 5	1 0	9 2	2 39	22 5	0 1	21 52
M24	11 14	12 0	4 53	1 36	3 0	5 19	1 18	15 42	1 10	12 8	0 59	9 2	2 39	22 5	0 1	21 53
T 25	10 54	7 36	5 1	1 59	3 9	4 49	1 16	15 30	1 10	12 12	0 59	9 1	2 40	22 5	0 1	21 53
W26	10 33	2 43	4 50	2 20	3 18	4 19	1 15	15 17	1 10	12 15	0 59	9 0	2 40	22 5	0 1	21 53
T 27	10 12	2n24	4 21	2 39	3 27	3 48	1 14	15 5	1 10	12 18	0 59	9 0	2 40	22 5	0 1	21 53
F 28	9 51	7 26	3 36	2 56	3 35	3 17	1 12	14 53	1 10	12 21	0 59	8 59	2 40	22 6	0 1	21 53
S 29	9 29	12 3	2 36	3 10	3 43	2 47	1 11	14 40	1 10	12 25	0 58	8 58	2 41	22 6	0 1	21 53
S 30	9 8	15 57	1 27	3 22	3 50	2 16	1 9	14 27	1 10	12 28	0 58	8 57	2 41	22 6	0 1	21 53
M31	8n46	18n52	0n12	3s31	3s57	1n45	1n 8	14n14	1n10	12s31	0n58	8n56	2s41	22s 6	0s 1	21n53

Julian Day Number = 2354237.5, Delta T = 11.82 sec
Ecliptic obliquity = 23°28'21, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°01'16, Lahiri = 20°08'16Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1733

geocentric

SEPTEMBER 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 40 34	8 ^h 27'13"	7 ^h 11'35"	29°R47	29 ^h 26'	25 ^h 05'	5 ^h 11'	29°R52	10°43'	21 ^h 48'	18 ^h 54'	25°R45	26 ^h 13'	16 ^h 23'	12°R32	T 1
W 2	22 44 30	9°25'24"	21°33'	29 ^h 43'	0 ^h 40'	26°28'	6° 0'	29°Y50	10°43'	21°49'	18°56'	25 ^h 45'	26°10'	16°29'	12°R31	W 2
T 3	22 48 27	10°23'38"	5 ^h 21'	29°32'	1°53'	27° 6'	6°10'	29°47'	10°44'	21°50'	18°57'	25°43'	26° 7'	16°36'	12°30'	T 3
F 4	22 52 24	11°21'54"	19° 0'	29°15'	3° 7'	27°44'	6°20'	29°45'	10°45'	21°50'	18°59'	25°38'	26° 4'	16°43'	12°29'	F 4
S 5	22 56 20	12°20'11"	2 ^h 02'	28°52'	4°21'	28°22'	6°30'	29°43'	10°46'	21°51'	19° 1'	25°31'	26° 1'	16°49'	12°28'	S 5
S 6	23 0 17	13°18'31"	15°46'	28°22'	5°35'	29° 0'	6°40'	29°40'	10°46'	21°52'	19° 4'	25°21'	25°57'	16°56'	12°26'	S 6
M 7	23 4 13	14°16'53"	28°51'	27°46'	6°49'	29°39'	6°50'	29°38'	10°47'	21°52'	19° 6'	25°10'	25°54'	17° 3'	12°25'	M 7
T 8	23 8 10	15°15'16"	11 ^h 43'	27° 3'	8° 2'	0 ^h 17'	7° 0'	29°35'	10°48'	21°53'	19° 8'	24°57'	25°51'	17° 9'	12°24'	T 8
W 9	23 12 6	16°13'41"	24°21'	26°15'	9°16'	0°55'	7°11'	29°32'	10°49'	21°54'	19°10'	24°46'	25°48'	17°16'	12°23'	W 9
T 10	23 16 3	17°12'08"	6 ^h 45'	25°22'	10°30'	1°33'	7°21'	29°29'	10°50'	21°54'	19°12'	24°36'	25°45'	17°23'	12°21'	T 10
F 11	23 19 59	18°10'37"	18°56'	24°24'	11°43'	2°11'	7°32'	29°27'	10°51'	21°55'	19°14'	24°28'	25°41'	17°29'	12°20'	F 11
S 12	23 23 56	19° 9'08"	0 ^h 15'	23°24'	12°57'	2°49'	7°43'	29°24'	10°53'	21°55'	19°16'	24°23'	25°38'	17°36'	12°18'	S 12
S 13	23 27 53	20° 7'40"	12°47'	22°21'	14°11'	3°27'	7°53'	29°20'	10°54'	21°55'	19°18'	24°20'	25°35'	17°42'	12°17'	S 13
M14	23 31 49	21° 6'15"	24°34'	21°18'	15°25'	4° 5'	8° 4'	29°17'	10°55'	21°56'	19°20'	24°D19	25°32'	17°49'	12°15'	M14
T 15	23 35 46	22° 4'51"	6 ^h 22'	20°15'	16°38'	4°43'	8°15'	29°14'	10°56'	21°56'	19°23'	24°20'	25°29'	17°56'	12°14'	T 15
W16	23 39 42	23° 3'28"	18°15'	19°15'	17°52'	5°21'	8°26'	29°11'	10°58'	21°56'	19°25'	24°R20	25°26'	18° 2'	12°12'	W16
T 17	23 43 39	24° 2'08"	0 ^h 31'	18°19'	19° 6'	5°59'	8°37'	29° 7'	10°59'	21°57'	19°27'	24°20'	25°22'	18° 9'	12°10'	T 17
F 18	23 47 35	25° 0'49"	12°38'	17°29'	20°19'	6°37'	8°48'	29° 4'	11° 1'	21°57'	19°29'	24°19'	25°19'	18°16'	12° 8'	F 18
S 19	23 51 32	25°59'31"	25°19'	16°45'	21°33'	7°15'	8°59'	29° 0'	11° 2'	21°57'	19°31'	24°15'	25°16'	18°22'	12° 6'	S 19
S 20	23 55 28	26°58'16"	8 ^h 25'	16° 9'	22°47'	7°53'	9°11'	28°57'	11° 4'	21°57'	19°34'	24° 9'	25°13'	18°29'	12° 5'	S 20
M21	23 59 25	27°57'02"	21°57'	15°42'	24° 0'	8°31'	9°22'	28°53'	11° 5'	21°58'	19°36'	24° 1'	25°10'	18°36'	12° 3'	M21
T 22	0 3 22	28°55'50"	5 ^h 15'	15°24'	25°14'	9° 9'	9°33'	28°49'	11° 7'	21°58'	19°38'	23°52'	25° 6'	18°42'	12° 1'	T 22
W23	0 7 18	29°54'40"	20°16'	15°D17	26°27'	9°47'	9°45'	28°45'	11° 9'	21°58'	19°40'	23°43'	25° 3'	18°49'	11°59'	W23
T 24	0 11 15	0 ^h 53'32"	4 ^h Y55'	15°19'	27°41'	10°25'	9°56'	28°41'	11°10'	21°58'	19°43'	23°36'	25° 0'	18°56'	11°57'	T 24
F 25	0 15 11	1°52'26"	19°43'	15°32'	28°54'	11° 3'	10° 8'	28°37'	11°12'	21°R58	19°45'	23°30'	24°57'	19° 2'	11°54'	F 25
S 26	0 19 8	2°51'22"	4 ^h 34'	15°54'	0 ^h 18'	11°41'	10°20'	28°33'	11°14'	21°58'	19°47'	23°26'	24°54'	19° 9'	11°52'	S 26
S 27	0 23 4	3°50'20"	19°19'	16°26'	1°21'	12°19'	10°32'	28°29'	11°16'	21°58'	19°50'	23°D25	24°51'	19°16'	11°50'	S 27
M28	0 27 1	4°49'21"	3 ^h 11'	17° 8'	2°35'	12°58'	10°43'	28°25'	11°18'	21°58'	19°52'	23°25'	24°47'	19°22'	11°48'	M28
T 29	0 30 57	5°48'24"	18°11'	17°57'	3°48'	13°36'	10°55'	28°21'	11°20'	21°57'	19°54'	23°26'	24°44'	19°29'	11°45'	T 29
W30	0 34 54	6 ^h 47'29"	2 ^h 21'	18 ^h 55'	5 ^h 11'	14 ^h 14'	11 ^h 11'	28°Y17	11°22'	21 ^h 57'	19°57'	23°R27	24 ^h 41'	19 ^h 13'	11°43'	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	8n25	20n35	1s 2	3s37	4s 3	1n14	1n 6	14n 2	1n10	12s35	0n58	8n55	2s41	22s 6	0s 1	21n53
W 2	8 3	21 0	2 12	3 40	4 7	0 43	1 5	13 49	1 10	12 38	0 58	8 54	2 41	22 6	0 1	21 53
T 3	7 41	20 8	3 14	3 39	4 11	0 12	1 3	13 36	1 10	12 41	0 58	8 53	2 42	22 6	0 1	21 53
F 4	7 19	18 7	4 3	3 35	4 14	0s19	1 1	13 23	1 10	12 45	0 57	8 52	2 42	22 6	0 1	21 53
S 5	6 56	15 7	4 38	3 27	4 15	0 50	0 59	13 9	1 10	12 48	0 57	8 51	2 42	22 6	0 1	21 53
S 6	6 34	11 23	4 58	3 15	4 15	1 21	0 57	12 56	1 10	12 52	0 57	8 50	2 42	22 6	0 1	21 53
M 7	6 12	7 11	5 1	2 59	4 14	1 52	0 55	12 43	1 10	12 55	0 57	8 49	2 43	22 7	0 1	21 53
T 8	5 49	2 43	4 49	2 39	4 10	2 23	0 53	12 29	1 11	12 59	0 57	8 48	2 43	22 7	0 1	21 53
W 9	5 26	1s47	4 23	2 16	4 5	2 54	0 51	12 16	1 11	13 2	0 56	8 47	2 43	22 7	0 1	21 53
T 10	5 4	6 8	3 45	1 48	3 58	3 25	0 49	12 2	1 11	13 6	0 56	8 46	2 43	22 7	0 1	21 53
F 11	4 41	10 9	2 57	1 17	3 49	3 56	0 47	11 49	1 11	13 10	0 56	8 44	2 43	22 7	0 1	21 53
S 12	4 18	13 43	2 2	0 43	3 38	4 26	0 44	11 35	1 11	13 13	0 56	8 43	2 44	22 7	0 1	21 53
S 13	3 55	16 40	1 1	0 7	3 26	4 57	0 42	11 21	1 11	13 17	0 56	8 42	2 44	22 8	0 1	21 53
M14	3 32	18 55	0n 1	0n32	3 11	5 28	0 40	11 7	1 11	13 20	0 56	8 41	2 44	22 8	0 1	21 53
T 15	3 9	20 21	1 4	1 11	2 55	5 58	0 37	10 53	1 11	13 24	0 55	8 39	2 44	22 8	0 1	21 53
W16	2 46	20 53	2 5	1 51	2 37	6 29	0 35	10 39	1 11	13 28	0 55	8 38	2 44	22 8	0 1	21 53
T 17	2 22	20 28	3 1	2 30	2 19	6 59	0 33	10 25	1 11	13 31	0 55	8 37	2 45	22 8	0 1	21 53
F 18	1 59	19 4	3 49	3 7	1 59	7 29	0 30	10 11	1 11	13 35	0 55	8 35	2 45	22 9	0 1	21 53
S 19	1 36	16 42	4 28	3 43	1 39	7 59	0 28	9 57	1 11	13 39	0 55	8 34	2 45	22 9	0 1	21 53
S 20	1 12	13 26	4 55	4 15	1 19	8 29	0 25	9 43	1 11	13 43	0 55	8 32	2 45	22 9	0 1	21 52
M21	0 49	9 23	5 6	4 44	0 59	8 59	0 22	9 29	1 11	13 46	0 55	8 31	2 45	22 9	0 1	21 52
T 22	0 26	4 43	4 59	5 9	0 40	9 28	0 20	9 14	1 11	13 50	0 54	8 30	2 45	22 9	0 1	21 52
W23	0 2	0n21	4 34	5 29	0 21	9 57	0 17	9 0	1 11	13 54	0 54	8 28	2 45	22 10	0 1	21 52
T 24	0s21	5 29	3 51	5 45	0 3	10 26	0 14	8 46	1 11	13 58	0 54	8 27	2 46	22 10	0 1	21 52
F 25	0 45	10 22	2 51	5 56	0n14	10 55	0 12	8 31	1 11	14 1	0 54	8 25	2 46	22 10	0 1	21 52
S 26	1 8	14 38	1 40	6 2	0 30	11 24	0 9	8 17	1 11	14 5	0 54	8 23	2 46	22 10	0 1	21 52
S 27	1 32	17 56	0 22	6 2	0 44	11 52	0 6	8 2	1 11	14 9	0 54	8 22	2 46	22 11	0 1	21 52
M28	1 55	20 2	0s56	5 58	0 58	12 20	0 3	7 48	1 11	14 13	0 53	8 20	2 46	22 11	0 1	21 52
T 29	2 19	20 47	2 10	5 50	1 9	12 48	0 0	7 33	1 11	14 17	0 53	8 19	2 46	22 11	0 1	21 52
W30	2s42	20n13	3s14	5n37	1n20	13s15	0s 3	7n18	1n11	14s21	0n53	8n17	2s46	22s12	0s 1	21n52

Julian Day Number = 2354268.5, Delta T = 11.83 sec

Ecliptic obliquity = 23°28'21", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 21°01'20", Lahiri = 20°08'20"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1733
geocentric

OCTOBER 1733

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 50	7 ^h 46 ^m 37 ^s	15 ^h 57 ^m	20 ^h 00 ^m	6 ^h 15 ^m	14 ^h 52 ^m	11 ^h 19 ^m	28 ^h R12	11 ^h 24 ^m	21 ^h R57	19 ^h 59 ^m	23 ^h R27	24 ^h M38	19 ^h M42	11 ^h R41	T 1
F 2	0 42 47	8 ^h 45 ^m 47 ^s	29 ^h 25 ^m	21 ^h 11 ^m	7 ^h 29 ^m	15 ^h 30 ^m	11 ^h 31 ^m	28 ^h Y 8	11 ^h 26 ^m	21 ^h II57	20 ^h 1	23 ^h M25	24 ^h 35	19 ^h 49	11 ^h 38	F 2
S 3	0 46 44	9 ^h 45 ^m 00 ^s	12 ^h 23 ^m	22 ^h 28 ^m	8 ^h 42 ^m	16 ^h 8	11 ^h 43 ^m	28 ^h 4	11 ^h 28 ^m	21 ^h 57	20 ^h 4	23 ^h 21	24 ^h 32	19 ^h 55	11 ^h 36	S 3
S 4	0 50 40	10 ^h 44 ^m 14 ^s	25 ^h 35 ^m	23 ^h 50 ^m	9 ^h 56 ^m	16 ^h 46 ^m	11 ^h 56 ^m	27 ^h 59	11 ^h 30 ^m	21 ^h 56	20 ^h 6	23 ^h 15	24 ^h 28	20 ^h 2	11 ^h 33	S 4
M 5	0 54 37	11 ^h 43 ^m 31 ^s	8 ^h 20 ^m	25 ^h 16 ^m	11 ^h 9	17 ^h 24 ^m	12 ^h 8	27 ^h 55	11 ^h 33 ^m	21 ^h 56	20 ^h 9	23 ^h 8	24 ^h 25	20 ^h 9	11 ^h 31	M 5
T 6	0 58 33	12 ^h 42 ^m 50 ^s	20 ^h 52 ^m	26 ^h 46 ^m	12 ^h 23 ^m	18 ^h 2	12 ^h 20 ^m	27 ^h 50	11 ^h 35 ^m	21 ^h 56	20 ^h 11	23 ^h 0	24 ^h 22	20 ^h 15	11 ^h 28	T 6
W 7	1 2 30	13 ^h 42 ^m 11 ^s	3 ^h 14 ^m	28 ^h 19 ^m	13 ^h 36 ^m	18 ^h 40 ^m	12 ^h 32 ^m	27 ^h 46	11 ^h 37 ^m	21 ^h 55	20 ^h 13	22 ^h 53	24 ^h 19	20 ^h 22	11 ^h 25	W 7
T 8	1 6 26	14 ^h 41 ^m 35 ^s	15 ^h 24 ^m	29 ^h 54 ^m	14 ^h 49 ^m	19 ^h 18 ^m	12 ^h 45 ^m	27 ^h 41	11 ^h 40 ^m	21 ^h 55	20 ^h 16	22 ^h 47	24 ^h 16	20 ^h 29	11 ^h 23	T 8
F 9	1 10 23	15 ^h 41 ^m 00 ^s	27 ^h 25 ^m	1 ^h 31 ^m	16 ^h 3	19 ^h 56 ^m	12 ^h 57 ^m	27 ^h 36	11 ^h 42 ^m	21 ^h 54	20 ^h 18	22 ^h 42	24 ^h 12	20 ^h 35	11 ^h 20	F 9
S 10	1 14 19	16 ^h 40 ^m 28 ^s	9 ^h 19 ^m	3 ^h 10 ^m	17 ^h 16 ^m	20 ^h 34 ^m	13 ^h 10 ^m	27 ^h 32	11 ^h 44 ^m	21 ^h 54	20 ^h 21	22 ^h 39	24 ^h 9	20 ^h 42	11 ^h 17	S 10
S 11	1 18 16	17 ^h 39 ^m 57 ^s	21 ^h 7	4 ^h 51 ^m	18 ^h 29 ^m	21 ^h 11 ^m	13 ^h 22 ^m	27 ^h 27	11 ^h 47 ^m	21 ^h 53	20 ^h 23	22 ^h D38	24 ^h 6	20 ^h 49	11 ^h 15	S 11
M12	1 22 13	18 ^h 39 ^m 29 ^s	2 ^h 53 ^m	6 ^h 32 ^m	19 ^h 43 ^m	21 ^h 49 ^m	13 ^h 35 ^m	27 ^h 22	11 ^h 49 ^m	21 ^h 53	20 ^h 25	22 ^h 39	24 ^h 3	20 ^h 55	11 ^h 12	M12
T 13	1 26 9	19 ^h 39 ^m 02 ^s	14 ^h 40 ^m	8 ^h 14 ^m	20 ^h 56 ^m	22 ^h 27 ^m	13 ^h 47 ^m	27 ^h 17	11 ^h 52 ^m	21 ^h 52	20 ^h 28	22 ^h 40	24 ^h 0	21 ^h 2	11 ^h 9	T 13
W14	1 30 6	20 ^h 38 ^m 37 ^s	26 ^h 33 ^m	9 ^h 57 ^m	22 ^h 9	23 ^h 5	14 ^h 0	27 ^h 13	11 ^h 54 ^m	21 ^h 52	20 ^h 30	22 ^h 42	23 ^h 57	21 ^h 8	11 ^h 6	W14
T 15	1 34 2	21 ^h 38 ^m 14 ^s	8 ^h 35 ^m	11 ^h 39 ^m	23 ^h 22 ^m	23 ^h 43 ^m	14 ^h 13 ^m	27 ^h 8	11 ^h 57 ^m	21 ^h 51	20 ^h 33	22 ^h 44	23 ^h 53	21 ^h 15	11 ^h 3	T 15
F 16	1 37 59	22 ^h 37 ^m 52 ^s	20 ^h 52 ^m	13 ^h 22 ^m	24 ^h 36 ^m	24 ^h 21 ^m	14 ^h 25 ^m	27 ^h 3	12 ^h 0	21 ^h 50	20 ^h 35	22 ^h R45	23 ^h 50	21 ^h 22	11 ^h 0	F 16
S 17	1 41 55	23 ^h 37 ^m 33 ^s	3 ^h 29 ^m	15 ^h 5	25 ^h 49 ^m	24 ^h 59 ^m	14 ^h 38 ^m	26 ^h 58	12 ^h 2	21 ^h 50	20 ^h 37	22 ^h 44	23 ^h 47	21 ^h 28	10 ^h 57	S 17
S 18	1 45 52	24 ^h 37 ^m 15 ^s	16 ^h 30 ^m	16 ^h 48 ^m	27 ^h 2	25 ^h 37 ^m	14 ^h 51 ^m	26 ^h 54	12 ^h 5	21 ^h 49	20 ^h 40	22 ^h 42	23 ^h 44	21 ^h 35	10 ^h 55	S 18
M19	1 49 48	25 ^h 36 ^m 59 ^s	29 ^h 58 ^m	18 ^h 30 ^m	28 ^h 15 ^m	26 ^h 15 ^m	15 ^h 4	26 ^h 49	12 ^h 8	21 ^h 48	20 ^h 42	22 ^h 40	23 ^h 41	21 ^h 42	10 ^h 52	M19
T 20	1 53 45	26 ^h 36 ^m 44 ^s	13 ^h 54 ^m	20 ^h 12 ^m	29 ^h 28 ^m	26 ^h 53 ^m	15 ^h 17 ^m	26 ^h 44	12 ^h 11	21 ^h 47	20 ^h 45	22 ^h 36	23 ^h 38	21 ^h 48	10 ^h 49	T 20
W21	1 57 42	27 ^h 36 ^m 31 ^s	28 ^h 17 ^m	21 ^h 54 ^m	0 ^h 42 ^m	27 ^h 31 ^m	15 ^h 30 ^m	26 ^h 39	12 ^h 14	21 ^h 47	20 ^h 47	22 ^h 32	23 ^h 34	21 ^h 55	10 ^h 46	W21
T 22	2 1 38	28 ^h 36 ^m 20 ^s	13 ^h Y 3	23 ^h 35 ^m	1 ^h 55 ^m	28 ^h 9	15 ^h 43 ^m	26 ^h 34	12 ^h 16	21 ^h 46	20 ^h 49	22 ^h 29	23 ^h 31	22 ^h 2	10 ^h 43	T 22
F 23	2 5 35	29 ^h 36 ^m 11 ^s	28 ^h 5	25 ^h 16 ^m	3 ^h 8	28 ^h 47 ^m	15 ^h 56 ^m	26 ^h 29	12 ^h 19	21 ^h 45	20 ^h 52	22 ^h 26	23 ^h 28	22 ^h 8	10 ^h 40	F 23
S 24	2 9 31	0 ^h M36 ^m 04 ^s	13 ^h 31 ^m	26 ^h 57 ^m	4 ^h 21 ^m	29 ^h 25 ^m	16 ^h 9	26 ^h 25	12 ^h 22	21 ^h 44	20 ^h 54	22 ^h 25	23 ^h 25	22 ^h 15	10 ^h 37	S 24
S 25	2 13 28	1 ^h 35 ^m 59 ^s	28 ^h 20 ^m	28 ^h 37 ^m	5 ^h 34 ^m	0 ^h 3 3	16 ^h 22 ^m	26 ^h 20	12 ^h 25	21 ^h 43	20 ^h 57	22 ^h D25	23 ^h 22	22 ^h 22	10 ^h 33	S 25
M26	2 17 24	2 ^h 35 ^m 57 ^s	13 ^h II16 ^m	0 ^h M17 ^m	6 ^h 47 ^m	0 ^h 41	16 ^h 35 ^m	26 ^h 15	12 ^h 28	21 ^h 42	20 ^h 59	22 ^h 26	23 ^h 18	22 ^h 28	10 ^h 30	M26
T 27	2 21 21	3 ^h 35 ^m 56 ^s	27 ^h 53 ^m	1 ^h 56 ^m	8 ^h 0	1 ^h 19	16 ^h 48 ^m	26 ^h 10	12 ^h 31	21 ^h 41	21 ^h 1	22 ^h 27	23 ^h 15	22 ^h 35	10 ^h 27	T 27
W28	2 25 17	4 ^h 35 ^m 57 ^s	12 ^h 36 ^m 9	3 ^h 34 ^m	9 ^h 13 ^m	1 ^h 57	17 ^h 1	26 ^h 6	12 ^h 34	21 ^h 40	21 ^h 4	22 ^h 28	23 ^h 12	22 ^h 41	10 ^h 24	W28
T 29	2 29 14	5 ^h 36 ^m 01 ^s	26 ^h 1	5 ^h 13 ^m	10 ^h 26 ^m	2 ^h 35	17 ^h 14 ^m	26 ^h 1	12 ^h 37	21 ^h 39	21 ^h 6	22 ^h 29	23 ^h 9	22 ^h 48	10 ^h 21	T 29
F 30	2 33 11	6 ^h 36 ^m 07 ^s	9 ^h 29 ^m	6 ^h 50 ^m	11 ^h 39 ^m	3 ^h 13	17 ^h 27 ^m	25 ^h 56	12 ^h 41	21 ^h 38	21 ^h 8	22 ^h R29	23 ^h 6	22 ^h 55	10 ^h 18	F 30
S 31	2 37 7	7 ^h M36 ^m 15 ^s	22 ^h 23 ^m	8 ^h M28 ^m	12 ^h 51 ^m	3 ^h 51	17 ^h M40	25 ^h Y52	12 ^h 44	21 ^h II37	21 ^h 11	22 ^h M29	23 ^h M 3	23 ^h M 1	10 ^h 15	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
T 1	3s 5	18n27	4s 6	5n20	1n29	13s43	0s 5	7n 4	1n11	14s24	0n53	8n15	2s46	22s12	0s 1	21n52	1s22	7n33	16n35	18s40	18s57	18s 7	13n50	1s36					
F 2	3 29	15 41	4 43	4 59	1 36	14 9	0 8	6 49	1 11	14 28	0 53	8 14	2 47	22 12	0 1	21 52	1 22	7 32	16 35	18 39	18 56	18 8	13 49	1 36					
S 3	3 52	12 11	5 4	4 34	1 43	14 36	0 11	6 34	1 11	14 32	0 53	8 12	2 47	22 12	0 1	21 52	1 22	7 31	16 35	18 38	18 56	18 9	13 48	1 36					
S 4	4 15	8 9	5 9	4 6	1 48	15 2	0 14	6 19	1 11	14 36	0 53	8 11	2 47	22 13	0 1	21 52	1 22	7 30	16 35	18 37	18 55	18 10	13 47	1 36					
M 5	4 39	3 50	4 59	3 36	1 52	15 28	0 17	6 4	1 11	14 40	0 53	8 9	2 47	22 13	0 1	21 52	1 22	7 29	16 35	18 35	18 54	18 10	13 46	1 37					
T 6	5 2	0s35	4 34	3 3	1 55	15 53	0 20	5 49	1 11	14 44	0 52	8 7	2 47	22 13	0 1	21 52	1 22	7 28	16 35	18 33	18 53	18 11	13 46	1 37					
W 7	5 25	4 54	3 57	2 28	1 57	16 18	0 23	5 34	1 11	14 47	0 52	8 5	2 47	22 14	0 1	21 52	1 22	7 27	16 35	18 31	18 53	18 12	13 45	1 37					
T 8	5 48	8 59	3 9	1 51	1 58	16 43	0 26	5 19	1 11	14 51	0 52	8 4	2 47	22 14	0 1	21 52	1 22	7 26	16 35	18 30	18 52	18 13	13 44	1 37					
F 9	6 11	12 39	2 13	1 12	1 58	17 7	0 29	5 5	1 10	14 55	0 52	8 2	2 47	22 14	0 1	21 52	1 22	7 26	16 35	18 28	18 51	18 14	13 43	1 37					
S 10	6 34	15 46	1 12	0 32	1 57	17 31	0 32	4 50	1 10	14 59	0 52	8 0	2 47	22 15	0 1	21 52	1 22	7 25	16 35	18 28	18 50	18 15	13 42	1 37					
S 11	6 57	18 12	0 8	0s 9	1 56	17 55	0 35	4 34	1 10	15 3	0 52	7 59	2 47	22 15	0 1	21 51	1 22	7 24	16 35	18 27	18 49	18 16	13 41	1 37					
M12	7 19	19 51	0 56	0 51	1 54	18 18	0 38	4 19	1 10	15 7	0 52	7 57	2 47	22 15	0 1	21 51	1 22	7 23	16 35	18 28	18 49	18 17	13 40	1 38					
T 13	7 42	20 38	1 58	1 34	1 51	18 40	0 41	4 4	1 10	15 11	0 52	7 55	2 47	22 16	0 1	21 51	1 22	7 22	16 35	18 28	18 48	18 18	13 39	1 38					
W14	8 4	20 30	2 55	2 17	1 48	19 2	0 44	3 49	1 10	15 15	0 52	7 53	2 47	22 16	0 1	21 51	1 22	7 21	16 35	18 28	18 47	18 19	13 38	1 38					
T 15	8 27	19 26	3 46	3 1	1 45	19 24	0 47	3 34	1 10	15 18	0 51	7 52	2 47	22 16	0 1	21 51	1 22	7 20	16 35	18 29	18 46	18 20	13 37	1 38					
F 16	8 49	17 27	4 27	3 44	1 41	19 45	0 50	3 19	1 10	15 22	0 51	7 50	2 47	22 17	0 1	21 51	1 22	7 19	16 35	18 29	18 45	18 21	13 36	1 38					
S 17	9 11	14 35	4 57	4 28	1 36	20 5	0 52	3 4	1 10	15 26	0 51	7 48	2 47	22 17	0 1	21 51	1 22	7 19	16 35	18 29	18 45	18 21	13 35	1 38					
S 18	9 33	10 56	5 13	5 12	1 31	20 25	0 55	2 49	1 10	15 30	0 51	7 47	2 47	22 18	0 1	21 51	1 22	7 18	16 35	18 28	18 44	18 22	13 34	1 38					
M19	9 55	6 38	5 12	5 56	1 26	20 45	0 58	2 34	1 10	15 34	0 51	7 45	2 47	22 18	0 1	21 51	1 22	7 17	16 35	18 28	18 43	18 23	13 33	1 39					
T 20	10 17	1 50	4 53	6 40	1 21	21 4	1 1	2 18	1 10	15 38	0 51	7 43	2 47	22 18	0 1	21 51	1 22	7 16	16 35	18 27	18 42	18 24	13 32	1 39					
W21	10 38	3n14	4 16	7 23	1 15	21 22	1 4	2 3	1 10	15 42	0 51	7 41	2 47	22 19	0 1	21 51	1 22	7 15	16 35	18 26	18 42	18 25	13 31	1 39					
T 22	11 0	8 14	3 20	8 6	1 9	21 40	1 7	1 48	1 10	15 45	0 51	7 40	2 47	22 19	0 1	21 51	1 22	7 14	16 35	18 25	18 41	18 26	13 29	1 39					
F 23	11 21	12 50	2 10	8 49	1 3	21 57	1 10	1 33	1 10	15 49	0 51	7 38	2 47	22 19	0 1	21 51	1 23	7 14	16 35	18 24	18 40	18 27	13 28	1 39					
S 24	11 42	16 38	0 51	9 31	0 57	22 14	1 12	1 18	1 9	15 53	0 51	7 36	2 47	22 20	0 1	21 50	1 23	7 13	16 35	18 24	18 39	18 27	13 27	1 39					
S 25	12 3	19 17	0s33	10 12	0 51	22 30	1 15	1 2	1 9	15 57	0 50	7 35	2 47	22 20	0 1	21 50	1 23	7 12	16 35	18 24	18 38	18 28	13 26	1 39					
M26	12 23	20 33	1 53	10 54	0 44	22 45	1 18	0 47	1 9	16 1	0 50	7 33	2 47	22 21	0 1	21 50	1 23	7 11	16 35	18 24	18 38	18 29	13 25	1 39					
T 27	12 44	20 23	3 4	11 34	0 38	23 0	1 20	0 32	1 9	16 5	0 50	7 31	2 47	22 21	0 1	21 50	1 23	7 11	16 35	18 25	18 37	18 30	13 24	1 39					
W28	13 4	18 54	4 2	12 14	0 31	23 14	1 23	0 17	1 9	16 8	0 50	7 30	2 47	22 21	0 1	21 50	1 23	7 10	16 35	18 25	18 36	18 31	13 23	1 40					
T 29	13 24	16 20	4 44	12 54	0 24	23 27	1 26	0 2	1 9	16 12	0 50	7 28	2 47	22 22	0 1	21 50	1 23	7 9	16 36	18 25	18 35	18 32	13 22	1 40					
F 30	13 44	12 56	5 9	13 32	0 18	23 40	1 28	0s14	1 9	16 16	0 50	7 26	2 47	22 22	0 1	21 50	1 23	7 8	16 36	18 25	18 34	18 33	13 21	1 40					
S 31	14s 4	9n 0	5s17	14s10	0n11	23s52	1s31	0s29	1n 9	16s20	0n50	7n25	2s47	22s23	0s 1	21n50	1s23	7n 8	16n36	18s25	18s34	18s33	13n20	1s40					

ASTRODIENST EPHEMERIS for the year 1733

geocentric

NOVEMBER 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 41 4	8♈36°25	5♏24	10♈5	14♏4	4♏29	17♈53	25°R47	12♏47	21°R36	21♏13	22°R28	22♈59	23♈8	10°R12	S 1
M 2	2 45 0	9°36'37	17°55	11°41	15°17	5°7	18°7	25°Y42	12°50	21°II34	21°15	22°M26	22°56	23°15	10♏9	M 2
T 3	2 48 57	10°36'51	0♏13	13°17	16°30	5°44	18°20	25°38	12°53	21°33	21°18	22°24	22°53	23°21	10°6	T 3
W 4	2 52 53	11°37'07	12°20	14°53	17°43	6°22	18°33	25°33	12°56	21°32	21°20	22°23	22°50	23°28	10°2	W 4
T 5	2 56 50	12°37'24	24°19	16°28	18°55	7°0	18°46	25°29	13°0	21°31	21°22	22°21	22°47	23°35	9°59	T 5
F 6	3 0 46	13°37'44	6♈12	18°3	20°8	7°38	19°0	25°24	13°3	21°30	21°24	22°20	22°43	23°41	9°56	F 6
S 7	3 4 43	14°38'06	18°0	19°38	21°21	8°16	19°13	25°20	13°6	21°28	21°27	22°D20	22°40	23°48	9°53	S 7
S 8	3 8 39	15°38'29	29°47	21°12	22°33	8°54	19°26	25°15	13°10	21°27	21°29	22°20	22°37	23°55	9°50	S 8
M 9	3 12 36	16°38'54	11♏35	22°46	23°46	9°32	19°40	25°11	13°13	21°26	21°31	22°20	22°34	24°1	9°47	M 9
T 10	3 16 33	17°39'20	23°25	24°20	24°59	10°10	19°53	25°7	13°16	21°24	21°33	22°21	22°31	24°8	9°44	T 10
W11	3 20 29	18°39'48	5♏21	25°53	26°11	10°48	20°6	25°3	13°20	21°23	21°36	22°21	22°28	24°15	9°41	W11
T 12	3 24 26	19°40'18	17°26	27°26	27°24	11°26	20°19	24°58	13°23	21°22	21°38	22°22	22°24	24°21	9°38	T 12
F 13	3 28 22	20°40'49	29°44	28°59	28°36	12°4	20°33	24°54	13°27	21°20	21°40	22°22	22°21	24°28	9°35	F 13
S 14	3 32 19	21°41'21	12♏18	0♏32	29°49	12°42	20°46	24°50	13°30	21°19	21°42	22°22	22°18	24°34	9°32	S 14
S 15	3 36 15	22°41'54	25°13	2°4	1♏1	13°20	20°59	24°46	13°34	21°17	21°44	22°22	22°15	24°41	9°29	S 15
M16	3 40 12	23°42'29	8♏31	3°36	2°13	13°57	21°13	24°42	13°37	21°16	21°46	22°22	22°12	24°48	9°26	M16
T 17	3 44 9	24°43'04	22°16	5°8	3°26	14°35	21°26	24°39	13°41	21°14	21°49	22°22	22°9	24°54	9°23	T 17
W18	3 48 5	25°43'41	6♏Y27	6°40	4°38	15°13	21°39	24°35	13°44	21°13	21°51	22°22	22°5	25°1	9°20	W18
T 19	3 52 2	26°44'19	21°3	8°12	5°50	15°51	21°53	24°31	13°48	21°11	21°53	22°23	22°2	25°8	9°17	T 19
F 20	3 55 58	27°44'58	6♏0	9°43	7°2	16°29	22°6	24°28	13°51	21°10	21°55	22°23	21°59	25°14	9°14	F 20
S 21	3 59 55	28°45'39	21°11	11°14	8°14	17°7	22°19	24°24	13°55	21°8	21°57	22°R23	21°56	25°21	9°11	S 21
S 22	4 3 51	29°46'21	6♏25	12°45	9°26	17°45	22°32	24°21	13°58	21°7	21°59	22°23	21°53	25°28	9°8	S 22
M23	4 7 48	0♏47'05	21°35	14°15	10°38	18°23	22°46	24°17	14°2	21°5	22°1	22°23	21°49	25°34	9°5	M23
T 24	4 11 44	1°47'49	6♏29	15°46	11°50	19°1	22°59	24°14	14°5	21°4	22°3	22°22	21°46	25°41	9°2	T 24
W25	4 15 41	2°48'36	21°1	17°16	13°2	19°38	23°12	24°11	14°9	21°2	22°5	22°20	21°43	25°48	8°59	W25
T 26	4 19 38	3°49'24	5♏7	18°45	14°14	20°16	23°25	24°7	14°13	21°1	22°7	22°19	21°40	25°54	8°57	T 26
F 27	4 23 34	4°50'13	18°46	20°14	15°25	20°54	23°39	24°4	14°16	20°59	22°9	22°18	21°37	26°1	8°54	F 27
S 28	4 27 31	5°51'03	1♏57	21°43	16°37	21°32	23°52	24°1	14°20	20°57	22°11	22°D18	21°34	26°7	8°51	S 28
S 29	4 31 27	6°51'55	14°44	23°11	17°49	22°10	24°5	23°59	14°24	20°56	22°12	22°18	21°30	26°14	8°49	S 29
M30	4 35 24	7♏52'49	27♏11	24♏39	19♏0	22♏48	24♏18	23♏Y56	14♏27	20♏54	22♏14	22♏18	21♏27	26♏21	8♏46	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	14s23	4n45	5s 9	14s47	0n 4	24s 4	1s33	0s44	1n 9	16s23	0n50	7n23	2s47	22s23	0s 1	21n50	1s23	7n 7	16n36	18s25	18s33	18s34	13n19	1s40
M 2	14 43	0 23	4 46	15 24	0s 2	24 15	1 36	0 59	1 9	16 27	0 50	7 22	2 47	22 24	0 1	21 50	1 23	7 6	16 36	18 24	18 32	18 35	13 18	1 40
T 3	15 2	3s55	4 11	16 0	0 9	24 25	1 38	1 14	1 8	16 31	0 50	7 20	2 47	22 24	0 1	21 50	1 23	7 6	16 36	18 24	18 31	18 36	13 17	1 40
W 4	15 20	8 1	3 24	16 34	0 16	24 34	1 40	1 29	1 8	16 35	0 50	7 19	2 46	22 24	0 1	21 49	1 23	7 5	16 37	18 23	18 30	18 37	13 16	1 40
T 5	15 39	11 45	2 30	17 9	0 22	24 43	1 43	1 44	1 8	16 38	0 50	7 17	2 46	22 25	0 1	21 49	1 23	7 4	16 37	18 23	18 30	18 37	13 15	1 40
F 6	15 57	15 0	1 29	17 42	0 29	24 51	1 45	2 0	1 8	16 42	0 49	7 15	2 46	22 25	0 1	21 49	1 23	7 4	16 37	18 23	18 29	18 38	13 14	1 40
S 7	16 15	17 36	0 24	18 14	0 36	24 58	1 47	2 15	1 8	16 46	0 49	7 14	2 46	22 26	0 1	21 49	1 23	7 3	16 37	18 23	18 28	18 39	13 12	1 41
S 8	16 33	19 28	0n41	18 45	0 42	25 5	1 49	2 30	1 8	16 49	0 49	7 13	2 46	22 26	0 1	21 49	1 23	7 3	16 37	18 23	18 27	18 40	13 11	1 41
M 9	16 50	20 28	1 45	19 16	0 48	25 11	1 51	2 45	1 8	16 53	0 49	7 11	2 46	22 26	0 1	21 49	1 23	7 2	16 38	18 23	18 26	18 41	13 10	1 41
T 10	17 7	20 34	2 45	19 46	0 55	25 16	1 53	3 0	1 8	16 57	0 49	7 10	2 46	22 27	0 1	21 49	1 23	7 1	16 38	18 23	18 25	18 41	13 9	1 41
W11	17 24	19 45	3 37	20 14	1 1	25 20	1 55	3 15	1 7	17 0	0 49	7 8	2 46	22 27	0 1	21 49	1 23	7 1	16 38	18 23	18 25	18 42	13 8	1 41
T 12	17 41	18 1	4 21	20 42	1 7	25 24	1 57	3 30	1 7	17 4	0 49	7 7	2 45	22 28	0 2	21 49	1 23	7 0	16 38	18 23	18 24	18 43	13 7	1 41
F 13	17 57	15 27	4 54	21 8	1 13	25 27	1 59	3 45	1 7	17 7	0 49	7 6	2 45	22 28	0 2	21 48	1 23	7 0	16 39	18 23	18 23	18 44	13 6	1 41
S 14	18 13	12 7	5 13	21 34	1 18	25 29	2 0	4 0	1 7	17 11	0 49	7 4	2 45	22 29	0 2	21 48	1 23	6 59	16 39	18 23	18 22	18 44	13 5	1 41
S 15	18 28	8 8	5 18	21 58	1 24	25 30	2 2	4 15	1 7	17 15	0 49	7 3	2 45	22 29	0 2	21 48	1 23	6 59	16 39	18 23	18 21	18 45	13 4	1 41
M16	18 44	3 40	5 6	22 22	1 29	25 31	2 4	4 29	1 7	17 18	0 49	7 2	2 45	22 29	0 2	21 48	1 23	6 58	16 39	18 23	18 21	18 46	13 3	1 41
T 17	18 58	1n 9	4 36	22 44	1 35	25 31	2 5	4 44	1 6	17 22	0 49	7 0	2 45	22 30	0 2	21 48	1 23	6 58	16 40	18 23	18 20	18 47	13 2	1 41
W18	19 13	6 4	3 49	23 5	1 40	25 30	2 7	4 59	1 6	17 25	0 49	6 59	2 44	22 30	0 2	21 48	1 23	6 57	16 40	18 23	18 19	18 47	13 1	1 41
T 19	19 27	10 47	2 46	23 25	1 45	25 28	2 8	5 14	1 6	17 29	0 49	6 58	2 44	22 31	0 2	21 48	1 23	6 57	16 40	18 23	18 18	18 48	13 0	1 41
F 20	19 41	14 57	1 30	23 44	1 49	25 26	2 9	5 29	1 6	17 32	0 49	6 57	2 44	22 31	0 2	21 48	1 23	6 56	16 41	18 24	18 17	18 49	12 59	1 41
S 21	19 55	18 11	0 7	24 2	1 54	25 23	2 10	5 43	1 6	17 36	0 49	6 56	2 44	22 32	0 2	21 48	1 23	6 56	16 41	18 24	18 16	18 50	12 58	1 42
S 22	20 8	20 8	1s17	24 18	1 58	25 19	2 11	5 58	1 6	17 39	0 49	6 55	2 44	22 32	0 2	21 47	1 23	6 56	16 41	18 24	18 16	18 50	12 57	1 42
M23	20 21	20 37	2 35	24 33	2 2	25 15	2 12	6 12	1 5	17 42	0 48	6 54	2 43	22 33	0 2	21 47	1 23	6 55	16 42	18 23	18 15	18 51	12 56	1 42
T 24	20 33	19 38	3 41	24 47	2 5	25 10	2 13	6 27	1 5	17 46	0 48	6 53	2 43	22 33	0 2	21 47	1 23	6 55	16 42	18 23	18 14	18 52	12 55	1 42
W25	20 45	17 21	4 32	25 0	2 9	25 4	2 14	6 42	1 5	17 49	0 48	6 52	2 43	22 33	0 2	21 47	1 23	6 54	16 42	18 23	18 13	18 53	12 54	1 42
T 26	20 57	14 6	5 3	25 11	2 12	24 57	2 15	6 56	1 5	17 52	0 48	6 51	2 43	22 34	0 2	21 47	1 23	6 54	16 43	18 22	18 12	18 53	12 53	1 42
F 27	21 8	10 12	5 17	25 21	2 14	24 49	2 16	7 10	1 5	17 56	0 48	6 50	2 43	22 34	0 2	21 47	1 23	6 54	16 43	18 22	18 12	18 54	12 53	1 42
S 28	21 19	5 55	5 13	25 29	2 16	24 41	2 16	7 25	1 4	17 59	0 48	6 49	2 42	22 35	0 2	21 47	1 23	6 53	16 43	18 22	18 11	18 55	12 52	1 42
S 29	21 29	1 30	4 54	25 36	2 18	24 32	2 17	7 39	1 4	18 2	0 48	6 48	2 42	22 35	0 2	21 47	1 23	6 53	16 44	18 22	18 10	18 55	12 51	1 42
M30	21s39	2s52	4s21	25s42	2s20	24s23	2s17	7s53	1n 4	18s 6	0n48	6n47	2s42	22s36	0s 2	21n47	1s23	6n53	16n44	18s22	18s 9	18s56	12n50	1s42

ASTRODIENST EPHEMERIS for the year 1733
geocentric

DECEMBER 1733

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 39 20	8♂53'44	9♂21	26♂ 6	20♂11	23♂26	24♂31	23°R53	14♂31	20°R52	22♂16	22♂20	21♂24	26♂27	8°R43	T 1
W 2	4 43 17	9°54'40	21°20	27°32	21°23	24° 3	24°44	23°Y51	14°34	20°II51	22°18	22°21	21°21	26°34	8♂41	W 2
T 3	4 47 13	10°55'37	3♂12	28°58	22°34	24°41	24°58	23°48	14°38	20°49	22°20	22°23	21°18	26°41	8°38	T 3
F 4	4 51 10	11°56'35	14°59	0♂22	23°45	25°19	25°11	23°46	14°42	20°47	22°21	22°24	21°15	26°47	8°36	F 4
S 5	4 55 7	12°57'35	26°46	1°45	24°56	25°57	25°24	23°43	14°45	20°46	22°23	22°R24	21°11	26°54	8°33	S 5
S 6	4 59 3	13°58'36	8♂34	3° 6	26° 8	26°35	25°37	23°41	14°49	20°44	22°25	22°23	21° 8	27° 1	8°31	S 6
M 7	5 3 0	14°59'37	20°26	4°26	27°19	27°13	25°50	23°39	14°53	20°42	22°26	22°21	21° 5	27° 7	8°29	M 7
T 8	5 6 56	16° 0'40	2♂35	5°43	28°29	27°50	26° 3	23°37	14°56	20°41	22°28	22°17	21° 2	27°14	8°26	T 8
W 9	5 10 53	17° 1'43	14°30	6°59	29°40	28°28	26°16	23°35	15° 0	20°39	22°30	22°13	20°59	27°21	8°24	W 9
T 10	5 14 49	18° 2'46	26°45	8°11	0♂51	29° 6	26°28	23°33	15° 4	20°37	22°31	22° 9	20°55	27°27	8°22	T 10
F 11	5 18 46	19° 3'51	9♂12	9°20	2° 1	29°44	26°41	23°32	15° 7	20°36	22°33	22° 4	20°52	27°34	8°20	F 11
S 12	5 22 42	20° 4'56	21°51	10°26	3°12	0♂22	26°54	23°30	15°11	20°34	22°34	22° 1	20°49	27°41	8°17	S 12
S 13	5 26 39	21° 6'01	4♂46	11°27	4°22	0°59	27° 7	23°29	15°15	20°32	22°36	21°58	20°46	27°47	8°15	S 13
M14	5 30 36	22° 7'06	17°59	12°23	5°33	1°37	27°20	23°27	15°18	20°30	22°37	21°D57	20°43	27°54	8°13	M14
T 15	5 34 32	23° 8'12	1°Y33	13°14	6°43	2°15	27°32	23°26	15°22	20°29	22°39	21°57	20°40	28° 0	8°11	T 15
W16	5 38 29	24° 9'18	15°28	13°58	7°53	2°52	27°45	23°25	15°26	20°27	22°40	21°58	20°36	28° 7	8° 9	W16
T 17	5 42 25	25°10'24	29°45	14°34	9° 3	3°30	27°58	23°24	15°29	20°25	22°42	22° 0	20°33	28°14	8° 7	T 17
F 18	5 46 22	26°11'31	14♂23	15° 3	10°12	4° 8	28°10	23°23	15°33	20°24	22°43	22° 1	20°30	28°20	8° 6	F 18
S 19	5 50 18	27°12'38	29°17	15°22	11°22	4°46	28°23	23°22	15°37	20°22	22°44	22°R 1	20°27	28°27	8° 4	S 19
S 20	5 54 15	28°13'45	14♂21	15°R31	12°32	5°23	28°35	23°21	15°40	20°20	22°46	21°59	20°24	28°34	8° 2	S 20
M21	5 58 11	29°14'52	29°26	15°30	13°41	6° 1	28°48	23°21	15°44	20°19	22°47	21°56	20°21	28°40	8° 1	M21
T 22	6 2 8	0♂16'00	14♂22	15°17	14°50	6°39	29° 0	23°20	15°47	20°17	22°48	21°50	20°17	28°47	7°59	T 22
W23	6 6 5	1°17'08	29° 2	14°52	15°59	7°16	29°12	23°20	15°51	20°15	22°49	21°44	20°14	28°54	7°57	W23
T 24	6 10 1	2°18'17	13♂18	14°16	17° 8	7°54	29°24	23°19	15°54	20°14	22°50	21°38	20°11	29° 0	7°56	T 24
F 25	6 13 58	3°19'26	27° 6	13°28	18°17	8°32	29°37	23°19	15°58	20°12	22°52	21°32	20° 8	29° 7	7°54	F 25
S 26	6 17 54	4°20'35	10♂26	12°30	19°25	9° 9	29°49	23°D19	16° 1	20°10	22°53	21°27	20° 5	29°14	7°53	S 26
S 27	6 21 51	5°21'45	23°19	11°22	20°34	9°47	0♂ 1	23°19	16° 5	20° 9	22°54	21°24	20° 1	29°20	7°52	S 27
M28	6 25 47	6°22'55	5♂48	10° 8	21°42	10°25	0°13	23°19	16° 9	20° 7	22°55	21°D24	19°58	29°27	7°50	M28
T 29	6 29 44	7°24'05	17°59	8°49	22°50	11° 2	0°25	23°20	16°12	20° 5	22°56	21°24	19°55	29°34	7°49	T 29
W30	6 33 40	8°25'16	29°56	7°27	23°58	11°40	0°37	23°20	16°15	20° 4	22°57	21°25	19°52	29°40	7°48	W30
T 31	6 37 37	9♂26'27	11♂45	6♂ 7	25°58	12♂17	0♂49	23°Y21	16♂19	20°II 2	22♂58	21♂27	19♂49	29♂47	7♂47	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	decl lat	decl lat
T 1	21s49	7s 2	3s37	25s46	2s21	24s13	2s17	8s 8	1n 4	18s 9	0n48	6n47	2s42	22s36	0s 2	21n46
W 2	21 58	10 52	2 44	25 48	2 21	24 2	2 17	8 22	1 3	18 12	0 48	6 46	2 41	22 36	0 2	21 46
T 3	22 7	14 14	1 44	25 50	2 22	23 50	2 17	8 36	1 3	18 15	0 48	6 45	2 41	22 37	0 2	21 46
F 4	22 15	17 0	0 41	25 49	2 21	23 38	2 17	8 50	1 3	18 18	0 48	6 44	2 41	22 37	0 2	21 46
S 5	22 23	19 4	0n24	25 48	2 20	23 25	2 17	9 4	1 3	18 22	0 48	6 44	2 41	22 38	0 2	21 46
S 6	22 31	20 19	1 28	25 44	2 18	23 12	2 17	9 18	1 2	18 25	0 48	6 43	2 40	22 38	0 2	21 46
M 7	22 38	20 39	2 29	25 40	2 16	22 57	2 17	9 32	1 2	18 28	0 48	6 43	2 40	22 39	0 2	21 46
T 8	22 44	20 4	3 23	25 34	2 13	22 43	2 16	9 45	1 2	18 31	0 48	6 42	2 40	22 39	0 2	21 46
W 9	22 50	18 33	4 9	25 26	2 9	22 27	2 15	9 59	1 2	18 34	0 48	6 42	2 40	22 39	0 2	21 46
T 10	22 56	16 11	4 44	25 17	2 4	22 11	2 15	10 13	1 1	18 37	0 48	6 41	2 39	22 40	0 2	21 45
F 11	23 1	13 4	5 6	25 7	1 59	21 55	2 14	10 26	1 1	18 40	0 48	6 41	2 39	22 40	0 2	21 45
S 12	23 6	9 17	5 14	24 56	1 52	21 37	2 13	10 40	1 1	18 43	0 48	6 41	2 39	22 41	0 2	21 45
S 13	23 10	5 1	5 6	24 43	1 45	21 20	2 12	10 53	1 1	18 46	0 48	6 40	2 39	22 41	0 2	21 45
M14	23 14	0 25	4 42	24 29	1 36	21 1	2 11	11 7	1 0	18 49	0 48	6 40	2 38	22 41	0 2	21 45
T 15	23 18	4n19	4 2	24 15	1 26	20 43	2 10	11 20	1 0	18 52	0 48	6 40	2 38	22 42	0 2	21 45
W16	23 21	8 58	3 7	23 59	1 15	20 23	2 8	11 33	1 0	18 54	0 48	6 40	2 38	22 42	0 2	21 45
T 17	23 23	13 15	1 59	23 43	1 3	20 3	2 7	11 46	0 59	18 57	0 48	6 40	2 37	22 43	0 2	21 45
F 18	23 25	16 50	0 42	23 27	0 50	19 43	2 5	11 59	0 59	19 0	0 48	6 40	2 37	22 43	0 2	21 45
S 19	23 27	19 23	0s40	23 10	0 35	19 22	2 3	12 12	0 59	19 3	0 48	6 40	2 37	22 43	0 2	21 44
S 20	23 28	20 35	1 59	22 53	0 19	19 1	2 1	12 25	0 58	19 6	0 48	6 40	2 37	22 44	0 2	21 44
M21	23 28	20 18	3 10	22 37	0 2	18 39	1 59	12 38	0 58	19 8	0 48	6 40	2 36	22 44	0 2	21 44
T 22	23 28	18 36	4 7	22 20	0n16	18 17	1 57	12 51	0 58	19 11	0 48	6 40	2 36	22 45	0 2	21 44
W23	23 28	15 42	4 47	22 4	0 35	17 54	1 55	13 3	0 57	19 14	0 48	6 40	2 36	22 45	0 2	21 44
T 24	23 27	11 56	5 7	21 49	0 54	17 31	1 53	13 16	0 57	19 16	0 48	6 40	2 35	22 45	0 2	21 44
F 25	23 26	7 39	5 9	21 34	1 14	17 7	1 50	13 28	0 57	19 19	0 48	6 40	2 35	22 46	0 2	21 44
S 26	23 24	3 8	4 54	21 20	1 33	16 43	1 48	13 40	0 56	19 22	0 48	6 40	2 35	22 46	0 2	21 44
S 27	23 22	1s23	4 24	21 7	1 52	16 19	1 45	13 53	0 56	19 24	0 48	6 41	2 35	22 47	0 2	21 44
M28	23 19	5 42	3 42	20 55	2 10	15 54	1 42	14 5	0 56	19 27	0 48	6 41	2 34	22 47	0 2	21 43
T 29	23 16	9 42	2 51	20 44	2 27	15 29	1 39	14 17	0 55	19 29	0 48	6 41	2 34	22 47	0 2	21 43
W30	23 12	13 14	1 54	20 35	2 41	15 4	1 36	14 29	0 55	19 32	0 48	6 42	2 34	22 48	0 2	21 43
T 31	23s 8	16s13	0s52	20s27	2n53	14s38	1s33	14s41	0n55	19s34	0n48	6n42	2s33	22s48	0s 2	21n43

Julian Day Number = 2354359.5, Delta T = 11.88 sec
Ecliptic obliquity = 23°28'20", Nutation = 0°00'13", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°01'32", Lahiri = 20°08'33Greg. Calendar