



Astrodienst Ephemeris Tables for the year 2298

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 2298

geocentric

JANUARY 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 8	10°32'02	11°02'29	24°35'59	29°33'36	13°03'37	23°R57	6°R25	4°R56	0°57'56	10°59'59	0°02'28	1°02'26	28°03'36	28°57'3	S 1
S 2	6 47 5	11°33'09	23°22	26°32	0°55'51	14° 4	23°II50	6°02'20	4°05'54	0°57	11° 0	0°29	1°23	28°43	28°10	S 2
M 3	6 51 1	12°34'16	5°00'10	28° 5	2° 6	14°31	23°43	6°15	4°53	0°59	11° 1	0°31	1°20	28°49	28°16	M 3
T 4	6 54 58	13°35'23	16°59	29°36	3°21	14°58	23°35	6°10	4°52	1° 1	11° 2	0°32	1°17	28°56	28°23	T 4
W 5	6 58 54	14°36'30	28°52	1°56	4°36	15°24	23°28	6° 5	4°51	1° 3	11° 3	0°34	1°14	29° 3	28°30	W 5
T 6	7 2 51	15°37'39	10°05'4	2°35	5°51	15°51	23°21	6° 0	4°49	1° 5	11° 4	0°R34	1°10	29° 9	28°37	T 6
F 7	7 6 48	16°38'47	23° 9	4° 3	7° 6	16°17	23°14	5°55	4°48	1° 6	11° 5	0°34	1° 7	29°16	28°44	F 7
S 8	7 10 44	17°39'56	5°00'44	5°28	8°21	16°42	23° 7	5°51	4°46	1° 8	11° 6	0°34	1° 4	29°23	28°51	S 8
S 9	7 14 41	18°41'05	18°41	6°51	9°36	17° 8	23° 1	5°46	4°45	1°10	11° 7	0°32	1° 1	29°29	28°57	S 9
M10	7 18 37	19°42'14	2°57'3	8°12	10°51	17°33	22°54	5°41	4°43	1°11	11° 8	0°31	0°58	29°36	29° 4	M10
T 11	7 22 34	20°43'24	15°52	9°29	12° 6	17°58	22°48	5°36	4°42	1°13	11° 9	0°30	0°55	29°43	29°11	T 11
W12	7 26 30	21°44'34	0°03'5	10°42	13°21	18°23	22°42	5°32	4°40	1°15	11°10	0°28	0°51	29°49	29°18	W12
T 13	7 30 27	22°45'43	14°40	11°50	14°36	18°48	22°35	5°27	4°38	1°16	11°12	0°28	0°48	29°56	29°24	T 13
F 14	7 34 23	23°46'53	29°31	12°53	15°51	19°12	22°29	5°22	4°36	1°18	11°13	0°D28	0°45	0°03'3	29°31	F 14
S 15	7 38 20	24°48'02	14°02'29	13°50	17° 6	19°36	22°24	5°18	4°35	1°19	11°14	0°28	0°42	0° 9	29°37	S 15
S 16	7 42 17	25°49'11	29°27	14°41	18°21	20° 0	22°18	5°13	4°33	1°21	11°15	0°28	0°39	0°16	29°44	S 16
M17	7 46 13	26°50'19	14°01'16	15°23	19°36	20°23	22°12	5° 9	4°31	1°22	11°16	0°28	0°35	0°23	29°50	M17
T 18	7 50 10	27°51'27	28°50	15°57	20°51	20°46	22° 7	5° 5	4°29	1°24	11°18	0°29	0°32	0°29	29°57	T 18
W19	7 54 6	28°52'34	13°00'6	16°21	22° 5	21° 9	22° 2	5° 0	4°27	1°25	11°19	0°29	0°29	0°36	0°03'3	W19
T 20	7 58 3	29°53'41	27° 0	16°34	23°20	21°32	21°57	4°56	4°25	1°26	11°20	0°29	0°26	0°43	0°10	T 20
F 21	8 1 59	0°55'46	10°03'33	16°R37	24°35	21°54	21°52	4°52	4°23	1°28	11°22	0°29	0°23	0°49	0°16	F 21
S 22	8 5 56	1°55'51	23°46	16°28	25°50	22°16	21°47	4°48	4°21	1°29	11°23	0°29	0°20	0°56	0°22	S 22
S 23	8 9 52	2°56'55	6°02'41	16° 7	27° 4	22°37	21°43	4°44	4°19	1°30	11°24	0°29	0°16	1° 3	0°29	S 23
M24	8 13 49	3°57'59	19°20	15°35	28°19	22°59	21°39	4°40	4°17	1°32	11°26	0°30	0°13	1° 9	0°35	M24
T 25	8 17 46	4°59'02	1°05'45	14°52	29°34	23°20	21°34	4°36	4°15	1°33	11°27	0°30	0°10	1°16	0°41	T 25
W26	8 21 42	6° 0'03	14° 0	13°58	0°03'48	23°40	21°30	4°32	4°12	1°34	11°28	0°31	0° 7	1°23	0°47	W26
T 27	8 25 39	7° 1'05	26° 6	12°56	2° 3	24° 0	21°27	4°28	4°10	1°35	11°30	0°R31	0° 4	1°29	0°53	T 27
F 28	8 29 35	8° 2'05	8°02'4	11°47	3°18	24°20	21°23	4°24	4° 8	1°37	11°31	0°31	0° 1	1°36	1° 0	F 28
S 29	8 33 32	9° 3'05	19°57	10°34	4°32	24°40	21°20	4°21	4° 6	1°38	11°33	0°30	29°57	1°43	1° 6	S 29
S 30	8 37 28	10° 4'03	1°00'47	9°18	5°47	24°59	21°17	4°17	4° 3	1°39	11°34	0°29	29°54	1°49	1°12	S 30
M31	8 41 25	11°05'02	13°00'36	8°51	7°01	25°01'17	21°II14	4°014	4°01	1°40	11°35	0°02'28	29°51	1°00'56	1°03'17	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	22s59	18n17	1n 1	23s13	2s 9	21s36	1s26	3s24	2n 7	22n49	0s27	22n19	0s55	10n25	0n47	S 1
S 2	22 54	15 39	2 3	22 53	2 7	21 21	1 27	3 34	2 8	22 49	0 27	22 20	0 55	10 25	0 47	S 2
M 3	22 48	12 24	3 0	22 33	2 4	21 5	1 28	3 44	2 8	22 49	0 26	22 20	0 55	10 26	0 47	M 3
T 4	22 42	8 40	3 50	22 10	2 1	20 49	1 29	3 54	2 9	22 48	0 26	22 20	0 55	10 26	0 47	T 4
W 5	22 36	4 35	4 30	21 47	1 57	20 32	1 30	4 3	2 10	22 48	0 26	22 21	0 55	10 27	0 47	W 5
T 6	22 29	0 17	4 59	21 22	1 52	20 15	1 31	4 13	2 10	22 48	0 26	22 21	0 55	10 28	0 47	T 6
F 7	22 22	4s 7	5 14	20 56	1 46	19 57	1 32	4 22	2 11	22 48	0 26	22 21	0 55	10 28	0 47	F 7
S 8	22 14	8 26	5 16	20 29	1 40	19 38	1 33	4 32	2 12	22 48	0 26	22 22	0 55	10 29	0 47	S 8
S 9	22 6	12 31	5 1	20 1	1 33	19 19	1 34	4 41	2 12	22 47	0 25	22 22	0 54	10 29	0 47	S 9
M10	21 57	16 7	4 31	19 33	1 25	19 0	1 34	4 50	2 13	22 47	0 25	22 22	0 54	10 30	0 47	M10
T 11	21 48	18 57	3 43	19 4	1 15	18 39	1 35	4 59	2 14	22 47	0 25	22 23	0 54	10 30	0 47	T 11
W12	21 39	20 43	2 41	18 34	1 5	18 18	1 35	5 7	2 14	22 47	0 25	22 23	0 54	10 31	0 47	W12
T 13	21 29	21 9	1 27	18 5	0 54	17 57	1 36	5 16	2 15	22 47	0 25	22 23	0 54	10 32	0 47	T 13
F 14	21 19	20 8	0 5	17 36	0 42	17 35	1 36	5 25	2 16	22 47	0 25	22 24	0 54	10 32	0 47	F 14
S 15	21 8	17 41	1s17	17 7	0 29	17 13	1 37	5 33	2 16	22 47	0 24	22 24	0 54	10 33	0 47	S 15
S 16	20 57	14 3	2 34	16 39	0 15	16 50	1 37	5 41	2 17	22 46	0 24	22 24	0 53	10 34	0 47	S 16
M17	20 45	9 34	3 40	16 12	0 0	16 27	1 37	5 50	2 18	22 46	0 24	22 25	0 53	10 35	0 47	M17
T 18	20 33	4 36	4 31	15 47	0n16	16 3	1 37	5 58	2 18	22 46	0 24	22 25	0 53	10 35	0 48	T 18
W19	20 21	0n30	5 4	15 23	0 33	15 39	1 37	6 5	2 19	22 46	0 24	22 25	0 53	10 36	0 48	W19
T 20	20 8	5 27	5 17	15 3	0 50	15 15	1 37	6 13	2 20	22 46	0 23	22 26	0 53	10 37	0 48	T 20
F 21	19 55	10 0	5 13	14 45	1 8	14 50	1 37	6 21	2 20	22 46	0 23	22 26	0 53	10 38	0 48	F 21
S 22	19 42	13 58	4 52	14 30	1 27	14 24	1 37	6 28	2 21	22 46	0 23	22 26	0 53	10 38	0 48	S 22
S 23	19 28	17 10	4 17	14 18	1 45	13 59	1 37	6 36	2 22	22 46	0 23	22 26	0 52	10 39	0 48	S 23
M24	19 14	19 29	3 30	14 10	2 3	13 33	1 36	6 43	2 22	22 46	0 23	22 27	0 52	10 40	0 48	M24
T 25	18 59	20 50	2 33	14 6	2 21	13 6	1 36	6 50	2 23	22 45	0 22	22 27	0 52	10 41	0 48	T 25
W26	18 44	21 10	1 31	14 6	2 37	12 39	1 35	6 57	2 24	22 45	0 22	22 27	0 52	10 42	0 48	W26
T 27	18 29	20 30	0 25	14 9	2 52	12 12	1 35	7 3	2 24	22 45	0 22	22 28	0 52	10 42	0 48	T 27
F 28	18 14	18 54	0n42	14 16	3 5	11 45	1 34	7 10	2 25	22 45	0 22	22 28	0 52	10 43	0 48	F 28
S 29	17 58	16 29	1 46	14 25	3 16	11 17	1 34	7 17	2 26	22 45	0 22	22 28	0 51	10 44	0 48	S 29
S 30	17 42	13 23	2 45	14 37	3 24	10 49	1 33	7 23	2 26	22 45	0 22	22 28	0 51	10 45	0 48	S 30
M31	17s25	9n46	3n37	14s50	3n31	10s21	1s32	7s29	2n27	22n45	0s21	22n29	0s51	10n46	0n48	M31

Julian Day Number = 2560387.5, Delta T = 293.53 sec
 Ecliptic obliquity = 23°23'57, Nutation = - 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 28°54'20, Lahiri = 28°01'21

ASTRODIENST EPHEMERIS for the year 2298

geocentric

FEBRUARY 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 45 21	12♈ 5'59	25♏27	6°R47	8°K16	25♊36	21°R11	4°R10	3°R59	1♈41	11♏37	0°R26	29♏48	2♏3	1♏23	T 1
W 2	8 49 18	13° 6'56	7♊21	5♈37	9°30	25°53	21♏8	4♏7	3♏56	1°42	11°38	0♏24	29°45	2°9	1°29	W 2
T 3	8 53 15	14° 7'52	19°24	4°32	10°44	26°11	21°6	4°4	3°54	1°43	11°40	0°22	29°41	2°16	1°35	T 3
F 4	8 57 11	15° 8'47	1♏38	3°35	11°59	26°28	21°4	4°1	3°51	1°44	11°41	0°21	29°38	2°23	1°41	F 4
S 5	9 1 8	16° 9'42	14° 8	2°45	13°13	26°45	21°2	3°58	3°49	1°45	11°43	0°D21	29°35	2°29	1°46	S 5
S 6	9 5 4	17°10'36	26°58	2°3	14°27	27°1	21°0	3°55	3°46	1°46	11°44	0°21	29°32	2°36	1°52	S 6
M 7	9 9 1	18°11'29	10♏11	1°31	15°42	27°16	20°58	3°52	3°44	1°47	11°46	0°22	29°29	2°43	1°57	M 7
T 8	9 12 57	19°12'22	23°50	1°6	16°56	27°32	20°57	3°49	3°41	1°47	11°47	0°23	29°26	2°49	2°3	T 8
W 9	9 16 54	20°13'14	7♏57	0°51	18°10	27°46	20°56	3°47	3°39	1°48	11°49	0°25	29°22	2°56	2°8	W 9
T 10	9 20 50	21°14'05	22°30	0°D43	19°24	28°1	20°55	3°44	3°36	1°49	11°51	0°26	29°19	3°3	2°14	T 10
F 11	9 24 47	22°14'54	7♈25	0°43	20°38	28°14	20°54	3°42	3°34	1°50	11°52	0°R26	29°16	3°9	2°19	F 11
S 12	9 28 44	23°15'43	22°34	0°50	21°52	28°28	20°53	3°39	3°31	1°50	11°54	0°24	29°13	3°16	2°24	S 12
S 13	9 32 40	24°16'31	7♏49	1°4	23°6	28°40	20°53	3°37	3°29	1°51	11°55	0°22	29°10	3°23	2°29	S 13
M14	9 36 37	25°17'17	22°59	1°25	24°20	28°53	20°D53	3°35	3°26	1°52	11°57	0°19	29°7	3°29	2°34	M14
T 15	9 40 33	26°18'01	7♏55	1°51	25°34	29°4	20°53	3°33	3°23	1°52	11°58	0°15	29°3	3°36	2°39	T 15
W16	9 44 30	27°18'44	22°28	2°22	26°48	29°15	20°53	3°31	3°21	1°53	12°0	0°12	29°0	3°43	2°44	W16
T 17	9 48 26	28°19'26	6♏36	2°58	28°2	29°26	20°54	3°29	3°18	1°53	12°2	0°9	28°57	3°49	2°49	T 17
F 18	9 52 23	29°20'06	20°16	3°39	29°16	29°36	20°54	3°27	3°16	1°54	12°3	0°7	28°54	3°56	2°54	F 18
S 19	9 56 19	0♏20'44	3♏30	4°24	0°Y30	29°45	20°55	3°26	3°13	1°54	12°5	0°D7	28°51	4°3	2°59	S 19
S 20	10 0 16	1°21'21	16°19	5°12	1°43	29°54	20°56	3°24	3°10	1°55	12°7	0°8	28°47	4°9	3°4	S 20
M21	10 4 13	2°21'56	28°50	6°4	2°57	0♏2	20°58	3°23	3°8	1°55	12°8	0°9	28°44	4°16	3°8	M21
T 22	10 8 9	3°22'29	11♏4	7°0	4°11	0°10	20°59	3°22	3°5	1°55	12°10	0°11	28°41	4°23	3°13	T 22
W23	10 12 6	4°23'00	23°7	7°58	5°24	0°17	21°1	3°20	3°2	1°56	12°11	0°12	28°38	4°29	3°17	W23
T 24	10 16 2	5°23'30	5♏3	8°59	6°38	0°23	21°2	3°19	3°0	1°56	12°13	0°R12	28°35	4°36	3°22	T 24
F 25	10 19 59	6°23'58	16°54	10°2	7°51	0°29	21°5	3°18	2°57	1°56	12°15	0°11	28°32	4°43	3°26	F 25
S 26	10 23 55	7°24'24	28°43	11°8	9°4	0°34	21°7	3°18	2°55	1°56	12°16	0°8	28°28	4°49	3°30	S 26
S 27	10 27 52	8°24'49	10♏32	12°16	10°18	0°38	21°9	3°17	2°52	1°57	12°18	0°2	28°25	4°56	3°35	S 27
M28	10 31 48	9♏25'12	22♏24	13♈26	11°Y31	0♏42	21♏12	3♏16	2♏49	1♏57	12♏20	29♏56	28♏22	5♏3	3♏39	M28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	17s 8	5n47	4n20	15s 5	3n34	9s52	1s31	7s35	2n28	22n45	0s21	22n29	0s51	10n47	0n48	T 1
W 2	16 51	1 33	4 52	15 21	3 35	9 23	1 30	7 41	2 28	22 45	0 21	22 29	0 51	10 48	0 48	W 2
T 3	16 34	2s47	5 11	15 38	3 34	8 54	1 29	7 46	2 29	22 45	0 21	22 30	0 51	10 48	0 48	T 3
F 4	16 16	7 4	5 17	15 55	3 30	8 25	1 28	7 52	2 30	22 45	0 21	22 30	0 51	10 49	0 48	F 4
S 5	15 58	11 9	5 8	16 11	3 25	7 55	1 27	7 57	2 30	22 45	0 20	22 30	0 50	10 50	0 48	S 5
S 6	15 40	14 51	4 43	16 27	3 18	7 25	1 25	8 2	2 31	22 45	0 20	22 30	0 50	10 51	0 48	S 6
M 7	15 21	17 55	4 3	16 42	3 10	6 55	1 24	8 7	2 32	22 46	0 20	22 31	0 50	10 52	0 48	M 7
T 8	15 2	20 7	3 9	16 56	3 1	6 25	1 22	8 12	2 32	22 46	0 20	22 31	0 50	10 53	0 48	T 8
W 9	14 43	21 9	2 1	17 10	2 51	5 55	1 21	8 17	2 33	22 46	0 20	22 31	0 50	10 54	0 48	W 9
T 10	14 24	20 48	0 44	17 22	2 40	5 24	1 19	8 21	2 34	22 46	0 19	22 31	0 49	10 55	0 48	T 10
F 11	14 4	19 0	0s38	17 33	2 28	4 54	1 18	8 26	2 34	22 46	0 19	22 32	0 49	10 56	0 48	F 11
S 12	13 45	15 51	1 59	17 43	2 17	4 23	1 16	8 30	2 35	22 46	0 19	22 32	0 49	10 57	0 48	S 12
S 13	13 24	11 35	3 12	17 51	2 5	3 52	1 14	8 33	2 36	22 46	0 19	22 32	0 49	10 58	0 48	S 13
M14	13 4	6 37	4 10	17 58	1 53	3 21	1 12	8 37	2 36	22 46	0 19	22 32	0 49	10 59	0 48	M14
T 15	12 44	1 19	4 51	18 4	1 41	2 50	1 11	8 41	2 37	22 47	0 19	22 33	0 49	11 0	0 48	T 15
W16	12 23	3n55	5 11	18 9	1 29	2 19	1 9	8 44	2 37	22 47	0 18	22 33	0 48	11 1	0 48	W16
T 17	12 2	8 47	5 12	18 12	1 17	1 48	1 6	8 47	2 38	22 47	0 18	22 33	0 48	11 1	0 48	T 17
F 18	11 41	13 2	4 55	18 14	1 6	1 17	1 4	8 50	2 39	22 47	0 18	22 33	0 48	11 2	0 48	F 18
S 19	11 20	16 31	4 23	18 15	0 54	0 45	1 2	8 53	2 39	22 48	0 18	22 33	0 48	11 3	0 48	S 19
S 20	10 58	19 5	3 38	18 14	0 43	0 14	1 0	8 55	2 40	22 48	0 18	22 34	0 48	11 4	0 48	S 20
M21	10 37	20 40	2 44	18 12	0 32	0n17	0 58	8 58	2 40	22 48	0 17	22 34	0 48	11 5	0 48	M21
T 22	10 15	21 14	1 43	18 9	0 22	0 49	0 55	9 0	2 41	22 48	0 17	22 34	0 47	11 6	0 48	T 22
W23	9 53	20 47	0 39	18 4	0 11	1 20	0 53	9 2	2 41	22 49	0 17	22 34	0 47	11 7	0 48	W23
T 24	9 31	19 24	0n26	17 58	0 1	1 51	0 50	9 3	2 42	22 49	0 17	22 34	0 47	11 8	0 48	T 24
F 25	9 9	17 10	1 30	17 50	0s9	2 23	0 48	9 5	2 42	22 49	0 17	22 35	0 47	11 9	0 48	F 25
S 26	8 47	14 14	2 29	17 42	0 18	2 54	0 45	9 6	2 43	22 50	0 17	22 35	0 47	11 10	0 48	S 26
S 27	8 24	10 43	3 22	17 32	0 27	3 25	0 43	9 7	2 43	22 50	0 16	22 35	0 46	11 11	0 48	S 27
M28	8s 1	6n47	4n 6	17s20	0s36	3n56	0s40	9s 8	2n44	22n50	0s16	22n35	0s46	11n12	0n48	M28

Julian Day Number = 2560418.5, Delta T = 293.67 sec

Ecliptic obliquity = 23°23'57, Nutation = - 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°54'25, Lahiri = 28°01'25

ASTRODIENST EPHEMERIS for the year 2298
geocentric

MARCH 2298

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 35 45	10 ^h 35'34"	4 ^h 19'	14 ^h 38'	12 ^h 44'	0 ^h 45'	21 ^h 11'	3 ^h 16'	2 ^h 47'	1 ^h 57'	12 ^h 21'	29 ^h 48'	28 ^h 19'	5 ^h 09'	3 ^h 43'	T 1
W 2	10 39 42	11 ^h 25'53"	16 ^h 20'	15 ^h 52'	13 ^h 57'	0 ^h 47'	21 ^h 18'	3 ^h 15'	2 ^h 44'	1 ^h 57'	12 ^h 23'	29 ^h 40'	28 ^h 16'	5 ^h 16'	3 ^h 47'	W 2
T 3	10 43 38	12 ^h 26'12"	28 ^h 29'	17 ^h 8'	15 ^h 10'	0 ^h 49'	21 ^h 21'	3 ^h 15'	2 ^h 42'	1 ^h 57'	12 ^h 25'	29 ^h 32'	28 ^h 12'	5 ^h 23'	3 ^h 51'	T 3
F 4	10 47 35	13 ^h 26'29"	10 ^h 47'	18 ^h 25'	16 ^h 23'	0 ^h 50'	21 ^h 24'	3 ^h 15'	2 ^h 39'	1 ^h 57'	12 ^h 26'	29 ^h 26'	28 ^h 9'	5 ^h 29'	3 ^h 54'	F 4
S 5	10 51 31	14 ^h 26'44"	23 ^h 18'	19 ^h 43'	17 ^h 36'	0 ^h 50'	21 ^h 28'	3 ^h 15'	2 ^h 36'	1 ^h 57'	12 ^h 28'	29 ^h 22'	28 ^h 6'	5 ^h 36'	3 ^h 58'	S 5
S 6	10 55 28	15 ^h 26'58"	6 ^h 5'	21 ^h 4'	18 ^h 49'	0 ^h 49'	21 ^h 32'	3 ^h 15'	2 ^h 34'	1 ^h 57'	12 ^h 29'	29 ^h 19'	28 ^h 3'	5 ^h 43'	4 ^h 2'	S 6
M 7	10 59 24	16 ^h 27'11"	19 ^h 11'	22 ^h 25'	20 ^h 2'	0 ^h 48'	21 ^h 35'	3 ^h 15'	2 ^h 31'	1 ^h 57'	12 ^h 31'	29 ^h D19	28 ^h 0'	5 ^h 49'	4 ^h 5'	M 7
T 8	11 3 21	17 ^h 27'22"	2 ^h 30'	23 ^h 48'	21 ^h 14'	0 ^h 46'	21 ^h 40'	3 ^h 16'	2 ^h 29'	1 ^h 57'	12 ^h 33'	29 ^h 20'	27 ^h 57'	5 ^h 56'	4 ^h 9'	T 8
W 9	11 7 17	18 ^h 27'32"	16 ^h 33'	25 ^h 13'	22 ^h 27'	0 ^h 43'	21 ^h 44'	3 ^h 16'	2 ^h 26'	1 ^h 56'	12 ^h 34'	29 ^h 21'	27 ^h 53'	6 ^h 3'	4 ^h 12'	W 9
T 10	11 11 14	19 ^h 27'40"	0 ^h 52'	26 ^h 39'	23 ^h 40'	0 ^h 39'	21 ^h 48'	3 ^h 16'	2 ^h 24'	1 ^h 56'	12 ^h 36'	29 ^h R21	27 ^h 50'	6 ^h 9'	4 ^h 15'	T 10
F 11	11 15 11	20 ^h 27'47"	15 ^h 34'	28 ^h 6'	24 ^h 52'	0 ^h 35'	21 ^h 53'	3 ^h 17'	2 ^h 21'	1 ^h 56'	12 ^h 38'	29 ^h 20'	27 ^h 47'	6 ^h 16'	4 ^h 19'	F 11
S 12	11 19 7	21 ^h 27'52"	0 ^h 36'	29 ^h 34'	26 ^h 5'	0 ^h 30'	21 ^h 58'	3 ^h 18'	2 ^h 19'	1 ^h 56'	12 ^h 39'	29 ^h 17'	27 ^h 44'	6 ^h 23'	4 ^h 22'	S 12
S 13	11 23 4	22 ^h 27'55"	15 ^h 49'	1 ^h 3'	27 ^h 17'	0 ^h 24'	22 ^h 3'	3 ^h 19'	2 ^h 16'	1 ^h 56'	12 ^h 41'	29 ^h 11'	27 ^h 41'	6 ^h 30'	4 ^h 25'	S 13
M14	11 27 0	23 ^h 27'56"	1 ^h 3'	2 ^h 34'	28 ^h 29'	0 ^h 17'	22 ^h 8'	3 ^h 20'	2 ^h 14'	1 ^h 55'	12 ^h 43'	29 ^h 3'	27 ^h 38'	6 ^h 36'	4 ^h 28'	M14
T 15	11 30 57	24 ^h 27'55"	16 ^h 8'	4 ^h 6'	29 ^h 42'	0 ^h 9'	22 ^h 13'	3 ^h 21'	2 ^h 12'	1 ^h 55'	12 ^h 44'	28 ^h 55'	27 ^h 34'	6 ^h 43'	4 ^h 31'	T 15
W16	11 34 53	25 ^h 27'53"	0 ^h 54'	5 ^h 39'	0 ^h 54'	0 ^h 1'	22 ^h 19'	3 ^h 22'	2 ^h 9'	1 ^h 54'	12 ^h 46'	28 ^h 46'	27 ^h 31'	6 ^h 50'	4 ^h 33'	W16
T 17	11 38 50	26 ^h 27'48"	15 ^h 14'	7 ^h 13'	2 ^h 6'	29 ^h 52'	22 ^h 25'	3 ^h 23'	2 ^h 7'	1 ^h 54'	12 ^h 47'	28 ^h 38'	27 ^h 28'	6 ^h 56'	4 ^h 36'	T 17
F 18	11 42 46	27 ^h 27'41"	29 ^h 4'	8 ^h 49'	3 ^h 18'	29 ^h 42'	22 ^h 30'	3 ^h 25'	2 ^h 5'	1 ^h 54'	12 ^h 49'	28 ^h 33'	27 ^h 25'	7 ^h 3'	4 ^h 39'	F 18
S 19	11 46 43	28 ^h 27'32"	12 ^h 25'	10 ^h 25'	4 ^h 30'	29 ^h 31'	22 ^h 36'	3 ^h 26'	2 ^h 2'	1 ^h 53'	12 ^h 51'	28 ^h 29'	27 ^h 22'	7 ^h 10'	4 ^h 41'	S 19
S 20	11 50 39	29 ^h 27'21"	25 ^h 18'	12 ^h 3'	5 ^h 42'	29 ^h 20'	22 ^h 43'	3 ^h 28'	2 ^h 0'	1 ^h 53'	12 ^h 52'	28 ^h D28	27 ^h 18'	7 ^h 16'	4 ^h 44'	S 20
M21	11 54 36	0 ^h 27'07"	7 ^h 34'	13 ^h 42'	6 ^h 53'	29 ^h 8'	22 ^h 49'	3 ^h 30'	1 ^h 58'	1 ^h 52'	12 ^h 54'	28 ^h 28'	27 ^h 15'	7 ^h 23'	4 ^h 46'	M21
T 22	11 58 33	1 ^h 26'52"	20 ^h 1'	15 ^h 22'	8 ^h 5'	28 ^h 55'	22 ^h 55'	3 ^h 31'	1 ^h 56'	1 ^h 51'	12 ^h 55'	28 ^h 29'	27 ^h 12'	7 ^h 30'	4 ^h 48'	T 22
W23	12 2 29	2 ^h 26'34"	2 ^h 0'	17 ^h 4'	9 ^h 16'	28 ^h 42'	23 ^h 2'	3 ^h 33'	1 ^h 54'	1 ^h 51'	12 ^h 57'	28 ^h R29	27 ^h 9'	7 ^h 36'	4 ^h 50'	W23
T 24	12 6 26	3 ^h 26'14"	13 ^h 51'	18 ^h 46'	10 ^h 28'	28 ^h 27'	23 ^h 9'	3 ^h 35'	1 ^h 51'	1 ^h 50'	12 ^h 59'	28 ^h 28'	27 ^h 6'	7 ^h 43'	4 ^h 52'	T 24
F 25	12 10 22	4 ^h 25'51"	25 ^h 39'	20 ^h 30'	11 ^h 39'	28 ^h 12'	23 ^h 16'	3 ^h 38'	1 ^h 49'	1 ^h 50'	13 ^h 0'	28 ^h 24'	27 ^h 3'	7 ^h 50'	4 ^h 54'	F 25
S 26	12 14 19	5 ^h 25'27"	7 ^h 27'	22 ^h 16'	12 ^h 50'	27 ^h 57'	23 ^h 23'	3 ^h 40'	1 ^h 47'	1 ^h 49'	13 ^h 2'	28 ^h 18'	26 ^h 59'	7 ^h 56'	4 ^h 56'	S 26
S 27	12 18 15	6 ^h 25'00"	19 ^h 18'	24 ^h 2'	14 ^h 2'	27 ^h 40'	23 ^h 30'	3 ^h 42'	1 ^h 45'	1 ^h 48'	13 ^h 3'	28 ^h 9'	26 ^h 56'	8 ^h 3'	4 ^h 58'	S 27
M28	12 22 12	7 ^h 24'31"	1 ^h 15'	25 ^h 50'	15 ^h 13'	27 ^h 23'	23 ^h 37'	3 ^h 45'	1 ^h 43'	1 ^h 47'	13 ^h 5'	27 ^h 57'	26 ^h 53'	8 ^h 10'	5 ^h 0'	M28
T 29	12 26 8	8 ^h 24'00"	13 ^h 19'	27 ^h 39'	16 ^h 23'	27 ^h 6'	23 ^h 45'	3 ^h 47'	1 ^h 41'	1 ^h 47'	13 ^h 6'	27 ^h 45'	26 ^h 50'	8 ^h 16'	5 ^h 1'	T 29
W30	12 30 5	9 ^h 23'28"	25 ^h 30'	29 ^h 29'	17 ^h 34'	26 ^h 48'	23 ^h 52'	3 ^h 50'	1 ^h 39'	1 ^h 46'	13 ^h 8'	27 ^h 31'	26 ^h 47'	8 ^h 23'	5 ^h 3'	W30
T 31	12 34 2	10 ^h 22'53"	7 ^h 51'	1 ^h 21'	18 ^h 45'	26 ^h 29'	24 ^h II 0	3 ^h 53'	1 ^h 37'	1 ^h 45'	13 ^h 9'	27 ^h 29'	26 ^h 44'	8 ^h 30'	5 ^h 4'	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	lat
T 1	7s39	2n34	4n39	17s 7	0s44	4n27	0s37	9s 9	2n44	22n51	0s16	22n35	0s46	11n13	0n48	18s51	1n42	18s32	12s37	20n10	20n28	12n29	17s23	5n58
W 2	7 16	1s47	5 1	16 53	0 53	4 58	0 34	9 9	2 45	22 51	0 16	22 36	0 46	11 14	0 48	18 51	1 42	18 31	12 37	20 11	20 29	12 27	17 22	5 59
T 3	6 53	6 6	5 9	16 38	1 0	5 29	0 31	9 9	2 45	22 51	0 16	22 36	0 46	11 15	0 48	18 51	1 42	18 31	12 37	20 13	20 29	12 25	17 21	5 59
F 4	6 30	10 14	5 3	16 22	1 8	6 0	0 28	9 9	2 45	22 52	0 16	22 36	0 46	11 16	0 48	18 51	1 42	18 30	12 37	20 14	20 30	12 23	17 21	6 0
S 5	6 7	14 0	4 43	16 4	1 15	6 30	0 26	9 9	2 46	22 52	0 15	22 36	0 45	11 17	0 48	18 51	1 42	18 30	12 37	20 15	20 30	12 22	17 20	6 1
S 6	5 44	17 13	4 8	15 44	1 22	7 1	0 23	9 9	2 46	22 53	0 15	22 36	0 45	11 17	0 48	18 51	1 42	18 29	12 37	20 16	20 31	12 20	17 19	6 1
M 7	5 20	19 39	3 20	15 24	1 28	7 31	0 20	9 8	2 46	22 53	0 15	22 37	0 45	11 18	0 48	18 51	1 42	18 28	12 37	20 16	20 32	12 18	17 18	6 2
T 8	4 57	21 3	2 19	15 2	1 34	8 1	0 16	9 7	2 47	22 53	0 15	22 37	0 45	11 19	0 48	18 51	1 42	18 28	12 37	20 15	20 32	12 16	17 18	6 3
W 9	4 33	21 14	1 9	14 39	1 39	8 31	0 13	9 6	2 47	22 54	0 15	22 37	0 45	11 20	0 48	18 51	1 42	18 27	12 37	20 15	20 33	12 14	17 17	6 3
T 10	4 10	20 4	0s 8	14 15	1 45	9 1	0 10	9 4	2 47	22 54	0 15	22 37	0 44	11 21	0 48	18 51	1 42	18 27	12 37	20 15	20 34	12 12	17 16	6 4
F 11	3 46	17 31	1 26	13 50	1 49	9 30	0 7	9 3	2 47	22 55	0 14	22 37	0 44	11 22	0 48	18 51	1 42	18 26	12 37	20 15	20 34	12 11	17 15	6 5
S 12	3 23	13 44	2 40	13 23	1 54	10 0	0 4	9 1	2 47	22 55	0 14	22 37	0 44	11 23	0 48	18 51	1 42	18 26	12 37	20 16	20 35	12 9	17 15	6 5
S 13	2 59	9 1	3 43	12 55	1 58	10 29	0 0	8 59	2 47	22 56	0 14	22 38	0 44	11 24	0 48	18 51	1 42	18 25	12 37	20 17	20 35	12 7	17 14	6 6
M14	2 35	3 43	4 30	12 26	2 2	10 58	0n 3	8 56	2 47	22 56	0 14	22 38	0 44	11 25	0 48	18 50	1 42	18 24	12 37	20 19	20 36	12 5	17 13	6 7
T 15	2 12	1n45	4 58	11 56	2 5	11 27	0 6	8 54	2 47	22 57	0 14	22 38	0 44	11 25	0 48	18 50	1 42	18 24	12 38	20 21	20 37	12 3	17 12	6 7
W16	1 48	6 59	5 5	11 24	2 8	11 55	0 10	8 51	2 47	22 57	0 14	22 38	0 43	11 26	0 48	18 50	1 42	18 23	12 38	20 22	20 37	12 1	17 12	6 8
T 17	1 24	11 42	4 53	10 52	2 10	12 23	0 13	8 48	2 47	22 58	0 13	22 38	0 43	11 27	0 48	18 50	1 42	18 23	12 38	20 24	20 38	12 0	17 11	6 9
F 18	1 0	15 37	4 24	10 18	2 12	12 51	0 16	8 45	2 47	22 58	0 13	22 38	0 43	11 28	0 48	18 50	1 42	18 22	12 38	20 25	20 39	11 58	17 10	6 9
S 19	0 37	18 36	3 41	9 43	2 14	13 18	0 20	8 41	2 47	22 58	0 13	22 38	0 43	11 29	0 48	18 50	1 42	18 22	12 38	20 26	20 39	11 56	17 9	6 10
S 20	0 13	20 31	2 48	9 7	2 15	13 46	0 23	8 37	2 46	22 59	0 13	22 39	0 43	11 29	0 48	18 50	1 43	18 21	12 38	20 26	20 40	11 54	17 8	6 11
M21	0n11	21 22	1 48	8 29	2 16	14 13	0 27	8 33	2 46	22 59	0 13	22 39	0 43	11 30	0 48	18 50	1 43	18 21	12 38	20 26	20 40	11 52	17 8	6 11
T 22	0 34	21 10	0 45	7 51	2 16	14 39	0 30	8 29	2 46	23 0	0 13	22 39	0 42	11 31	0 48	18 49	1 43	18 20	12 38	20 26	20 41	11 50	17 7	6 12
W23	0 58	19 59	0n19	7 11	2 16	15 5	0 34	8 25	2 45	23 0	0 13	22 39	0 42	11 32	0 48	18 49	1 43	18 20	12 38	20 26	20 42	11 48	17 6	6 13
T 24	1 22	17 56	1 21	6 31	2 15	15 31	0 37	8 20	2 45	23 1	0 12	22 39	0 42	11 32	0 48	18 49	1 43	18 19	12 39	20 26	20 42	11 46	17 5	6 14
F 25	1 46	15 8	2 20	5 49	2 14	15 57	0 41	8 16	2 44	23 1	0 12	22 39	0 42	11 33	0 48	18 49	1 43	18 19	12 39	20 27	20 43	11 45	17 5	6 14
S 26	2 9	11 44	3 12	5 6	2 13	16 22	0 44	8 11	2 44	23 2	0 12	22 39	0 42	11 34	0 48	18 49	1 43	18 18	12 39	20 28	20 44	11 43	17 4	6 15
S 27	2 33	7 50	3 56	4 22	2 11	16 47	0 48	8 5	2 43	23 2	0 12	22 39	0 42	11 35	0 48	18 48	1 43	18 18	12 39	20 30	20 44	11 41	17 3	6 16
M28	2 56	3 38	4 30	3 37	2 8	17 11	0 51	8 0	2 42	23 3	0 12	22 39	0 41	11 35	0 48	18 48	1 43	18 17	12 39	20 32	20 45	11 39	17 2	6 16
T 29	3 20	0s46	4 52	2 51	2 5	17 35	0 55	7 55	2 41	23 3	0 12	22 40	0 41	11 36	0 48	18 48	1 43	18 17	12 39	20 35	20 45	11 37	17 1	6 17
W30	3 43	5 10	5 1	2 4	2 2	17 59	0 58	7 49	2 41	23 4	0 12	22 40	0 41	11 37	0 48	18 48	1 43	18 17	12 40	20 37	20 46	11 35	17 1	6 18
T 31	4n 6	9s26	4n56	1s16	1s58	18n22	1n 2	7s43	2n40	23n 4	0s11	22n40	0s41	11n37	0n48	18s48	1n43	18s16	12s40	20n40	20n47	11n33	17s 0	6n19

ASTRODIENST EPHEMERIS for the year 2298

geocentric

APRIL 2298

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 37 58	11°22'16"	20°11'21"	3°13'13"	19°08'56"	26°R 9	24°II 8	3°56'56"	1°R36	1°R44	13°K11	27°R 8	26°54'40"	8°13'36"	5°5'5	F 1
S 2	12 41 55	12°21'38"	3°17'3	5° 8	21° 6	25°15'50"	24°16	3°59	1°13'34	1°17'43	13°12	27°5 0	26°37	8°43	5° 7	S 2
S 3	12 45 51	13°20'58"	15°56	7° 3	22°17	25°29	24°24	4° 2	1°32	1°42	13°14	26°55	26°34	8°50	5° 8	S 3
M 4	12 49 48	14°20'16"	29° 5	9° 0	23°27	25° 8	24°33	4° 5	1°30	1°41	13°15	26°52	26°31	8°56	5° 9	M 4
T 5	12 53 44	15°19'32"	12°30'10"	10°58	24°37	24°47	24°41	4° 8	1°29	1°40	13°17	26°D51	26°28	9° 3	5°10	T 5
W 6	12 57 41	16°18'47"	26°14	12°57	25°47	24°26	24°50	4°12	1°27	1°39	13°18	26°R51	26°24	9°10	5°10	W 6
T 7	13 1 37	17°18'00"	10°18'18"	14°58	26°57	24° 4	24°59	4°15	1°25	1°38	13°19	26°51	26°21	9°16	5°11	T 7
F 8	13 5 34	18°17'11"	24°43	16°59	28° 7	23°42	25° 7	4°19	1°24	1°37	13°21	26°49	26°18	9°23	5°12	F 8
S 9	13 9 31	19°16'20"	9°18'25"	19° 2	29°16	23°19	25°16	4°22	1°22	1°36	13°22	26°44	26°15	9°30	5°12	S 9
S 10	13 13 27	20°15'28"	24°20	21° 5	0°11'26"	22°56	25°25	4°26	1°21	1°35	13°24	26°36	26°12	9°36	5°13	S 10
M11	13 17 24	21°14'33"	9°17'20"	23° 9	1°35	22°33	25°35	4°30	1°19	1°34	13°25	26°26	26° 9	9°43	5°13	M11
T 12	13 21 20	22°13'37"	24°16	25°14	2°45	22°10	25°44	4°34	1°18	1°33	13°26	26°15	26° 5	9°50	5°13	T 12
W13	13 25 17	23°12'38"	8°15'58"	27°19	3°54	21°47	25°53	4°38	1°17	1°32	13°28	26° 3	26° 2	9°57	5°13	W13
T 14	13 29 13	24°11'38"	23°18	29°24	5° 3	21°24	26° 3	4°42	1°15	1°30	13°29	25°53	25°59	10° 3	5°14	T 14
F 15	13 33 10	25°10'36"	7°11'12"	18°30	6°12	21° 1	26°13	4°46	1°14	1°29	13°30	25°44	25°56	10°10	5°14	F 15
S 16	13 37 6	26° 9'31"	20°37	3°35	7°21	20°38	26°22	4°51	1°13	1°28	13°32	25°39	25°53	10°17	5°13	S 16
S 17	13 41 3	27° 8'24"	3°56'35"	5°39	8°29	20°15	26°32	4°55	1°12	1°27	13°33	25°36	25°49	10°23	5°13	S 17
M18	13 45 0	28° 7'15"	16° 9	7°42	9°38	19°52	26°42	5° 0	1°11	1°25	13°34	25°34	25°46	10°30	5°13	M18
T 19	13 48 56	29° 6'04"	28°24	9°44	10°46	19°29	26°52	5° 4	1°10	1°24	13°35	25°34	25°43	10°37	5°12	T 19
W20	13 52 53	0°18'45"	10°12'24"	11°44	11°54	19° 7	27° 2	5° 9	1° 9	1°23	13°37	25°34	25°40	10°43	5°12	W20
T 21	13 56 49	1° 3'34"	22°16	13°43	13° 2	18°45	27°13	5°14	1° 8	1°21	13°38	25°33	25°37	10°50	5°11	T 21
F 22	14 0 46	2° 2'16"	4°11'5	15°38	14°10	18°23	27°23	5°18	1° 7	1°20	13°39	25°29	25°34	10°57	5°11	F 22
S 23	14 4 42	3° 0'55"	15°55	17°32	15°18	18° 2	27°34	5°23	1° 6	1°19	13°40	25°23	25°30	11° 3	5°10	S 23
S 24	14 8 39	3°59'33"	27°50	19°22	16°25	17°41	27°44	5°28	1° 5	1°17	13°41	25°14	25°27	11°10	5° 9	S 24
M25	14 12 35	4°58'08"	9°12'53"	21° 9	17°32	17°20	27°55	5°33	1° 5	1°16	13°42	25° 3	25°24	11°17	5° 8	M25
T 26	14 16 32	5°56'42"	22° 6	22°53	18°40	17° 0	28° 6	5°38	1° 4	1°15	13°44	24°50	25°21	11°23	5° 7	T 26
W27	14 20 28	6°55'13"	4°11'31"	24°33	19°46	16°41	28°16	5°44	1° 3	1°13	13°45	24°37	25°18	11°30	5° 6	W27
T 28	14 24 25	7°53'43"	17° 7	26° 8	20°53	16°21	28°27	5°49	1° 3	1°12	13°46	24°24	25°15	11°37	5° 5	T 28
F 29	14 28 22	8°52'11"	29°55	27°40	22° 0	16° 3	28°38	5°54	1° 2	1°10	13°47	24°13	25°11	11°43	5° 3	F 29
S 30	14 32 18	9°50'37"	12°17'54"	29°18	23°11	15°15	28°11'49"	6°56'0	1°12	1°17	13°48	24°5 5	25°6 8	11°50	5° 2	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4n29	13s21	4n37	0s27	1s53	18n44	1n 5	7s37	2n39	23n 5	0s11	22n40	0s41	11n38	0n48	F 1
S 2	4 53	16 44	4 4	0n23	1 48	19 7	1 9	7 31	2 38	23 5	0 11	22 40	0 41	11 39	0 48	S 2
S 3	5 16	19 22	3 19	1 13	1 43	19 28	1 12	7 25	2 36	23 6	0 11	22 40	0 40	11 39	0 48	S 3
M 4	5 39	21 2	2 21	2 5	1 37	19 50	1 16	7 18	2 35	23 6	0 11	22 40	0 40	11 40	0 48	M 4
T 5	6 2	21 34	1 15	2 57	1 30	20 10	1 19	7 12	2 34	23 7	0 11	22 40	0 40	11 40	0 48	T 5
W 6	6 24	20 49	0 3	3 50	1 23	20 31	1 23	7 5	2 32	23 7	0 11	22 40	0 40	11 41	0 47	W 6
T 7	6 47	18 46	1s11	4 43	1 16	20 50	1 26	6 59	2 31	23 8	0 10	22 40	0 40	11 41	0 47	T 7
F 8	7 9	15 29	2 22	5 37	1 8	21 10	1 29	6 52	2 29	23 8	0 10	22 40	0 40	11 42	0 47	F 8
S 9	7 32	11 11	3 25	6 32	0 59	21 28	1 33	6 45	2 28	23 9	0 10	22 40	0 39	11 42	0 47	S 9
S 10	7 54	6 9	4 15	7 26	0 50	21 46	1 36	6 38	2 26	23 9	0 10	22 40	0 39	11 43	0 47	S 10
M11	8 16	0 43	4 47	8 21	0 41	22 4	1 39	6 32	2 25	23 10	0 10	22 40	0 39	11 43	0 47	M11
T 12	8 38	4n44	5 0	9 16	0 31	22 21	1 43	6 25	2 23	23 10	0 10	22 40	0 39	11 44	0 47	T 12
W13	9 0	9 50	4 53	10 11	0 21	22 38	1 46	6 18	2 21	23 11	0 10	22 40	0 39	11 44	0 47	W13
T 14	9 22	14 15	4 27	11 5	0 10	22 54	1 49	6 11	2 19	23 11	0 9	22 40	0 39	11 45	0 47	T 14
F 15	9 44	17 45	3 46	11 59	0n 0	23 9	1 52	6 4	2 17	23 11	0 9	22 40	0 38	11 45	0 47	F 15
S 16	10 5	20 11	2 54	12 52	0 11	23 24	1 55	5 58	2 15	23 12	0 9	22 40	0 38	11 46	0 47	S 16
S 17	10 26	21 28	1 54	13 44	0 22	23 38	1 59	5 51	2 13	23 12	0 9	22 40	0 38	11 46	0 47	S 17
M18	10 47	21 36	0 50	14 35	0 33	23 52	2 2	5 44	2 11	23 13	0 9	22 40	0 38	11 46	0 47	M18
T 19	11 8	20 42	0n15	15 24	0 44	24 5	2 5	5 38	2 9	23 13	0 9	22 40	0 38	11 47	0 47	T 19
W20	11 29	18 51	1 18	16 13	0 55	24 17	2 8	5 32	2 6	23 13	0 9	22 40	0 38	11 47	0 47	W20
T 21	11 49	16 13	2 16	16 59	1 6	24 29	2 10	5 25	2 4	23 14	0 9	22 40	0 38	11 47	0 47	T 21
F 22	12 10	12 55	3 9	17 43	1 17	24 40	2 13	5 19	2 2	23 14	0 8	22 40	0 37	11 48	0 47	F 22
S 23	12 30	9 7	3 53	18 26	1 27	24 51	2 16	5 13	1 59	23 14	0 8	22 40	0 37	11 48	0 47	S 23
S 24	12 50	4 57	4 27	19 6	1 37	25 0	2 19	5 8	1 57	23 15	0 8	22 40	0 37	11 48	0 47	S 24
M25	13 9	0 33	4 50	19 44	1 46	25 10	2 21	5 2	1 54	23 15	0 8	22 40	0 37	11 48	0 47	M25
T 26	13 29	3s57	5 0	20 19	1 55	25 18	2 24	4 57	1 52	23 15	0 8	22 40	0 37	11 48	0 47	T 26
W27	13 48	8 21	4 56	20 52	2 3	25 26	2 26	4 51	1 49	23 15	0 8	22 40	0 37	11 49	0 47	W27
T 28	14 7	12 29	4 38	21 22	2 11	25 34	2 29	4 47	1 47	23 16	0 8	22 40	0 36	11 49	0 47	T 28
F 29	14 26	16 6	4 5	21 50	2 17	25 40	2 31	4 42	1 44	23 16	0 8	22 40	0 36	11 49	0 47	F 29
S 30	14n44	19s 1	3n19	22n16	2n23	25n46	2n33	4s37	1n42	23n16	0s 7	22n40	0s36	11n49	0n47	S 30

Julian Day Number = 2560477.5, Delta T = 293.95 sec

Ecliptic obliquity = 23°23'58", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°54'33", Lahiri = 28°01'33"

ASTRODIENST EPHEMERIS for the year 2298
geocentric

MAY 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 15	10♈49'01	26♈ 4	0♈31	24♈12	15°R28	29♈ 1	6♈ 5	1°R 1	1°R 7	13♈49	23°R59	25♈ 5	11♈57	5°R 0	S 1
M 2	14 40 11	11°47'24	9♈26	1°50	25°18	15♈11	29°12	6°11	1♈ 1	1♈ 6	13°50	23♈56	25° 2	12° 4	4♈59	M 2
T 3	14 44 8	12°45'46	22°59	3° 4	26°24	14°55	29°23	6°16	1° 1	1° 4	13°51	23°D56	24°59	12°10	4°57	T 3
W 4	14 48 4	13°44'05	6♈45	4°13	27°29	14°40	29°35	6°22	1° 0	1° 3	13°52	23°R56	24°55	12°17	4°55	W 4
T 5	14 52 1	14°42'24	20°45	5°17	28°35	14°25	29°46	6°28	1° 0	1° 1	13°53	23°56	24°52	12°24	4°53	T 5
F 6	14 55 58	15°40'40	4♈57	6°17	29°40	14°11	29°58	6°34	1° 0	1° 0	13°54	23°54	24°49	12°30	4°52	F 6
S 7	14 59 54	16°38'56	19°20	7°12	0♈45	13°58	0♈ 9	6°40	1° 0	0°58	13°55	23°51	24°46	12°37	4°50	S 7
S 8	15 3 51	17°37'09	3♈53	8° 1	1°49	13°46	0°21	6°46	1°D 0	0°56	13°55	23°45	24°43	12°44	4°47	S 8
M 9	15 7 47	18°35'22	18°28	8°46	2°53	13°34	0°33	6°52	1° 0	0°55	13°56	23°36	24°40	12°50	4°45	M 9
T 10	15 11 44	19°33'32	3♈ 0	9°25	3°58	13°23	0°45	6°58	1° 0	0°53	13°57	23°27	24°36	12°57	4°43	T 10
W11	15 15 40	20°31'42	17°22	10° 0	5° 1	13°13	0°57	7° 4	1° 0	0°52	13°58	23°17	24°33	13° 4	4°41	W11
T 12	15 19 37	21°29'49	1♈28	10°29	6° 5	13° 4	1° 9	7°10	1° 0	0°50	13°59	23° 8	24°30	13°10	4°38	T 12
F 13	15 23 33	22°27'55	15°12	10°53	7° 8	12°55	1°21	7°16	1° 0	0°48	13°59	23° 0	24°27	13°17	4°36	F 13
S 14	15 27 30	23°25'59	28°33	11°11	8°11	12°47	1°33	7°23	1° 1	0°47	14° 0	22°55	24°24	13°24	4°33	S 14
S 15	15 31 26	24°24'02	11♈30	11°25	9°14	12°40	1°45	7°29	1° 1	0°45	14° 1	22°53	24°21	13°30	4°31	S 15
M16	15 35 23	25°22'02	24° 5	11°33	10°17	12°34	1°57	7°35	1° 1	0°44	14° 2	22°D52	24°17	13°37	4°28	M16
T 17	15 39 20	26°20'01	6♈22	11°R36	11°19	12°29	2°10	7°42	1° 2	0°42	14° 2	22°53	24°14	13°44	4°25	T 17
W18	15 43 16	27°17'58	18°25	11°35	12°20	12°25	2°22	7°48	1° 2	0°40	14° 3	22°54	24°11	13°51	4°22	W18
T 19	15 47 13	28°15'54	0♈19	11°28	13°22	12°21	2°34	7°55	1° 3	0°39	14° 4	22°R54	24° 8	13°57	4°20	T 19
F 20	15 51 9	29°13'47	12°10	11°17	14°23	12°18	2°47	8° 2	1° 3	0°37	14° 4	22°53	24° 5	14° 4	4°17	F 20
S 21	15 55 6	0♈11'39	24° 2	11° 2	15°24	12°16	2°59	8° 8	1° 4	0°36	14° 5	22°50	24° 1	14°11	4°14	S 21
S 22	15 59 2	1° 9'28	6♈ 0	10°43	16°24	12°15	3°12	8°15	1° 5	0°34	14° 5	22°45	23°58	14°17	4°10	S 22
M23	16 2 59	2° 7'17	18° 8	10°20	17°24	12°D14	3°25	8°22	1° 6	0°32	14° 6	22°38	23°55	14°24	4° 7	M23
T 24	16 6 55	3° 5'04	0♈29	9°54	18°24	12°15	3°37	8°29	1° 6	0°31	14° 6	22°30	23°52	14°31	4° 4	T 24
W25	16 10 52	4° 2'49	13° 5	9°25	19°23	12°16	3°50	8°36	1° 7	0°29	14° 7	22°21	23°49	14°37	4° 1	W25
T 26	16 14 49	5° 0'33	25°57	8°54	20°22	12°17	4° 3	8°43	1° 8	0°27	14° 7	22°13	23°46	14°44	3°57	T 26
F 27	16 18 45	5°58'15	9♈ 4	8°21	21°21	12°20	4°16	8°50	1° 9	0°26	14° 8	22° 6	23°42	14°51	3°54	F 27
S 28	16 22 42	6°55'56	22°25	7°47	22°19	12°23	4°29	8°57	1°10	0°24	14° 8	22° 1	23°39	14°57	3°51	S 28
S 29	16 26 38	7°53'36	5♈59	7°13	23°16	12°27	4°42	9° 4	1°11	0°23	14° 9	21°58	23°36	15° 4	3°47	S 29
M30	16 30 35	8°51'15	8°51'15	6°39	24°13	12°32	4°54	9°11	1°12	0°21	14° 9	21°D56	23°33	15°11	3°44	M30
T 31	16 34 31	9♈48'53	3♈36	6♈ 5	25♈10	12♈37	5♈ 7	9♈18	1♈14	0♈19	14♈ 9	21♈57	23♈30	15♈18	3♈40	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	15n 3	20s59	2n22	22n38	2n28	25n52	2n36	4s33	1n39	23n16	0s 7	22n40	0s36	11n49	0n47	18s39	1n44	18s 7	12s47	21n16	21n 5	10n33	16s38	6n40			
M 2	15 21	21 48	1 16	22 59	2 32	25 56	2 38	4 29	1 37	23 17	0 7	22 39	0 36	11 49	0 47	18 39	1 44	18 7	12 47	21 17	21 5	10 31	16 38	6 41			
T 3	15 39	21 22	0 5	23 17	2 36	26 1	2 40	4 25	1 34	23 17	0 7	22 39	0 36	11 49	0 47	18 38	1 44	18 7	12 48	21 17	21 6	10 29	16 37	6 42			
W 4	15 56	19 39	1 s 8	23 32	2 38	26 4	2 42	4 22	1 31	23 17	0 7	22 39	0 36	11 49	0 46	18 38	1 44	18 7	12 48	21 17	21 7	10 27	16 36	6 42			
T 5	16 13	16 43	2 17	23 46	2 39	26 7	2 43	4 19	1 29	23 17	0 7	22 39	0 36	11 49	0 46	18 38	1 44	18 7	12 48	21 17	21 7	10 25	16 36	6 43			
F 6	16 30	12 47	3 20	23 56	2 40	26 9	2 45	4 16	1 26	23 17	0 7	22 39	0 35	11 49	0 46	18 37	1 44	18 7	12 49	21 17	21 8	10 23	16 35	6 44			
S 7	16 47	8 3	4 10	24 5	2 39	26 11	2 47	4 13	1 24	23 17	0 7	22 39	0 35	11 49	0 46	18 37	1 44	18 7	12 49	21 18	21 8	10 21	16 35	6 44			
S 8	17 4	2 50	4 45	24 11	2 37	26 11	2 48	4 11	1 21	23 17	0 7	22 39	0 35	11 49	0 46	18 37	1 44	18 7	12 49	21 19	21 9	10 18	16 34	6 45			
M 9	17 20	2n34	5 2	24 16	2 34	26 12	2 50	4 8	1 18	23 17	0 6	22 38	0 35	11 49	0 46	18 36	1 44	18 7	12 50	21 20	21 9	10 16	16 34	6 45			
T 10	17 36	7 48	4 59	24 18	2 30	26 11	2 51	4 7	1 16	23 17	0 6	22 38	0 35	11 49	0 46	18 36	1 44	18 7	12 50	21 22	21 10	10 14	16 33	6 46			
W11	17 51	12 33	4 37	24 18	2 25	26 10	2 52	4 5	1 13	23 18	0 6	22 38	0 35	11 49	0 46	18 36	1 44	18 7	12 50	21 24	21 11	10 12	16 33	6 47			
T 12	18 6	16 31	3 59	24 16	2 19	26 9	2 53	4 4	1 11	23 18	0 6	22 38	0 35	11 49	0 46	18 35	1 44	18 7	12 51	21 25	21 11	10 10	16 32	6 47			
F 13	18 21	19 29	3 7	24 12	2 11	26 6	2 54	4 3	1 8	23 18	0 6	22 38	0 34	11 49	0 46	18 35	1 44	18 7	12 51	21 26	21 12	10 8	16 32	6 48			
S 14	18 36	21 17	2 6	24 6	2 3	26 4	2 55	4 2	1 5	23 18	0 6	22 37	0 34	11 49	0 46	18 35	1 44	18 7	12 51	21 27	21 12	10 6	16 31	6 48			
S 15	18 50	21 54	1 1	23 59	1 53	26 0	2 56	4 2	1 3	23 17	0 6	22 37	0 34	11 49	0 46	18 34	1 44	18 7	12 52	21 28	21 13	10 4	16 31	6 49			
M16	19 4	21 22	0n 7	23 49	1 42	25 56	2 57	4 2	1 0	23 17	0 6	22 37	0 34	11 49	0 46	18 34	1 44	18 7	12 52	21 28	21 13	10 2	16 30	6 49			
T 17	19 18	19 49	1 12	23 38	1 31	25 51	2 57	4 2	0 58	23 17	0 6	22 37	0 34	11 48	0 46	18 34	1 44	18 7	12 52	21 28	21 14	10 0	16 30	6 50			
W18	19 31	17 23	2 13	23 25	1 18	25 46	2 57	4 3	0 55	23 17	0 5	22 36	0 34	11 48	0 46	18 33	1 44	18 7	12 53	21 28	21 14	9 58	16 29	6 51			
T 19	19 44	14 15	3 7	23 11	1 4	25 40	2 58	4 4	0 53	23 17	0 5	22 36	0 34	11 48	0 46	18 33	1 44	18 7	12 53	21 28	21 15	9 56	16 29	6 51			
F 20	19 57	10 35	3 53	22 55	0 50	25 34	2 58	4 5	0 51	23 17	0 5	22 36	0 34	11 48	0 46	18 33	1 44	18 7	12 53	21 28	21 16	9 54	16 28	6 52			
S 21	20 9	6 29	4 29	22 37	0 34	25 27	2 58	4 6	0 48	23 17	0 5	22 36	0 33	11 47	0 46	18 32	1 44	18 7	12 54	21 28	21 16	9 52	16 28	6 52			
S 22	20 21	2 7	4 54	22 19	0 18	25 20	2 58	4 8	0 46	23 17	0 5	22 35	0 33	11 47	0 46	18 32	1 44	18 7	12 54	21 29	21 17	9 50	16 28	6 53			
M23	20 33	2s23	5 6	21 59	0 1	25 12	2 57	4 10	0 43	23 16	0 5	22 35	0 33	11 47	0 46	18 32	1 44	18 7	12 54	21 30	21 17	9 48	16 27	6 53			
T 24	20 44	6 53	5 4	21 38	0s16	25 3	2 57	4 12	0 41	23 16	0 5	22 35	0 33	11 47	0 46	18 31	1 44	18 7	12 55	21 32	21 18	9 46	16 27	6 54			
W25	20 55	11 10	4 47	21 17	0 33	24 54	2 56	4 15	0 39	23 16	0 5	22 34	0 33	11 46	0 46	18 31	1 44	18 7	12 55	21 33	21 18	9 44	16 26	6 54			
T 26	21 6	15 4	4 16	20 54	0 51	24 45	2 55	4 17	0 37	23 16	0 5	22 34	0 33	11 46	0 46	18 31	1 44	18 8	12 55	21 34	21 19	9 42	16 26	6 55			
F 27	21 16	18 18	3 30	20 32	1 9	24 35	2 54	4 20	0 34	23 15	0 5	22 34	0 33	11 45	0 46	18 30	1 44	18 8	12 56	21 35	21 19	9 39	16 26	6 55			
S 28	21 26	20 39	2 33	20 9	1 26	24 24	2 53	4 24	0 32	23 15	0 4	22 33	0 33	11 45	0 46	18 30	1 44	18 8	12 56	21 36	21 20	9 37	16 25	6 55			
S 29	21 35	21 51	1 25	19 47	1 43	24 13	2 52	4 27	0 30	23 15	0 4	22 33	0 33	11 45	0 46	18 30	1 44	18 8	12 56	21 37	21 20	9 35	16 25	6 56			
M30	21 44	21 45	0 12	19 25	0 40	24 2	2 51	4 31	0 28	23 14	0 4	22 33	0 32	11 44	0 45	18 30	1 44	18 8	12 57	21 37	21 21	9 33	16 25	6 56			
T 31	21n53	20s20	1 s 3	19n 3	2s16	23n50	2n49	4s35	0n26	23n14	0s 4	22n32	0s32	11n44	0n45	18s29	1n44	18s 8	12s57	21n37	21n22	9n31	16s24	6n57			

ASTRODIENST EPHEMERIS for the year 2298

geocentric

JUNE 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 38 28	10 ^{II} 46'30	17 ^{III} 36	5°R33	26 ^{II} 6	12 ^{II} 43	5 ^{II} 20	9 ^{II} 25	1 ^{III} 15	0°R18	14 ^{II} 10	21 ^{II} 58	23 ^{II} 27	15 ^{III} 24	3°R37	W 1
T 2	16 42 25	11°44'06	1 ^{II} 42	5 ^{II} 3	27° 2	12°50	5°34	9°32	1°16	0 ^{II} 16	14°10	21°59	23°23	15°31	3 ^{II} 33	T 2
F 3	16 46 21	12°41'41	15°52	4°35	27°57	12°58	5°47	9°39	1°17	0°15	14°10	22°R 0	23°20	15°38	3°29	F 3
S 4	16 50 18	13°39'15	0 ^{II} Y 5	4° 9	28°51	13° 6	6° 0	9°47	1°19	0°13	14°11	21°58	23°17	15°44	3°25	S 4
S 5	16 54 14	14°36'49	14°19	3°47	29°45	13°15	6°13	9°54	1°20	0°11	14°11	21°56	23°14	15°51	3°22	S 5
M 6	16 58 11	15°34'21	28°30	3°29	0 ^{II} 39	13°24	6°26	10° 1	1°22	0°10	14°11	21°52	23°11	15°58	3°18	M 6
T 7	17 2 7	16°31'53	12 ^{II} 35	3°14	1°32	13°34	6°39	10° 9	1°23	0° 8	14°11	21°46	23° 7	16° 4	3°14	T 7
W 8	17 6 4	17°29'24	26°30	3° 3	2°24	13°45	6°53	10°16	1°25	0° 7	14°11	21°41	23° 4	16°11	3°10	W 8
T 9	17 10 0	18°26'54	10 ^{II} 11	2°57	3°16	13°56	7° 6	10°24	1°26	0° 5	14°12	21°36	23° 1	16°18	3° 6	T 9
F 10	17 13 57	19°24'24	23°35	2°D55	4° 7	14° 8	7°19	10°31	1°28	0° 4	14°12	21°32	22°58	16°25	3° 2	F 10
S 11	17 17 54	20°21'52	6 ^{II} 42	2°57	4°57	14°20	7°33	10°39	1°30	0° 2	14°12	21°30	22°55	16°31	2°58	S 11
S 12	17 21 50	21°19'20	19°30	3° 4	5°46	14°34	7°46	10°46	1°32	0° 1	14°12	21°D29	22°52	16°38	2°54	S 12
M13	17 25 47	22°16'46	2 ^{II} 0	3°15	6°35	14°47	7°59	10°54	1°33	29 ^{III} 59	14°12	21°29	22°48	16°45	2°50	M13
T 14	17 29 43	23°14'11	14°15	3°31	7°23	15° 1	8°13	11° 1	1°35	29°58	14°R12	21°31	22°45	16°51	2°46	T 14
W15	17 33 40	24°11'35	26°17	3°51	8°11	15°16	8°26	11° 9	1°37	29°56	14°12	21°32	22°42	16°58	2°42	W15
T 16	17 37 36	25° 8'59	8 ^{III} 13	4°16	8°57	15°32	8°40	11°16	1°39	29°55	14°12	21°34	22°39	17° 5	2°38	T 16
F 17	17 41 33	26° 6'21	20° 4	4°45	9°43	15°47	8°53	11°24	1°41	29°53	14°12	21°35	22°36	17°11	2°34	F 17
S 18	17 45 29	27° 3'42	1 ^{II} 58	5°18	10°27	16° 4	9° 7	11°32	1°43	29°52	14°12	21°R35	22°33	17°18	2°30	S 18
S 19	17 49 26	28° 1'02	13°57	5°55	11°11	16°21	9°20	11°39	1°45	29°51	14°12	21°34	22°29	17°25	2°26	S 19
M20	17 53 23	28°58'22	26° 7	6°37	11°54	16°38	9°34	11°47	1°47	29°49	14°11	21°32	22°26	17°31	2°22	M20
T 21	17 57 19	29°55'40	8 ^{III} 32	7°23	12°35	16°56	9°47	11°55	1°50	29°48	14°11	21°29	22°23	17°38	2°18	T 21
W22	18 1 16	0 ^{II} 52'58	21°15	8°12	13°16	17°14	10° 1	12° 2	1°52	29°47	14°11	21°26	22°20	17°45	2°13	W22
T 23	18 5 12	1°50'15	4 ^{II} 17	9° 6	13°56	17°33	10°15	12°10	1°54	29°45	14°11	21°23	22°17	17°52	2° 9	T 23
F 24	18 9 9	2°47'31	17°39	10° 4	14°34	17°53	10°28	12°18	1°56	29°44	14°11	21°21	22°13	17°58	2° 5	F 24
S 25	18 13 5	3°44'47	1 ^{II} 39	11° 5	15°12	18°12	10°42	12°26	1°59	29°43	14°10	21°19	22°10	18° 5	2° 1	S 25
S 26	18 17 2	4°42'02	15°17	12°10	15°48	18°32	10°55	12°33	2° 1	29°41	14°10	21°D19	22° 7	18°12	1°57	S 26
M27	18 20 58	5°39'17	29°27	13°19	16°22	18°53	11° 9	12°41	2° 3	29°40	14°10	21°19	22° 4	18°18	1°53	M27
T 28	18 24 55	6°36'31	13 ^{III} 46	14°31	16°56	19°14	11°23	12°49	2° 6	29°39	14°10	21°19	22° 1	18°25	1°49	T 28
W29	18 28 52	7°33'46	28°10	15°47	17°28	19°36	11°36	12°57	2° 8	29°38	14° 9	21°20	21°58	18°32	1°45	W29
T 30	18 32 48	8 ^{II} 31'00	12 ^{II} 34	17 ^{II} 6	17 ^{II} 59	19 ^{II} 57	11 ^{II} 50	13 ^{II} 4	2 ^{III} 11	29 ^{III} 36	14 ^{II} 9	21 ^{II} 21	21 ^{II} 54	18 ^{III} 38	1 ^{II} 41	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
W 1	22n 1	17s40	2s15	18n43	2s31	23n38	2n47	4s39	0n23	23n13	0s 4	22n32	0s32	11n43	0n45	18s29	1n44	18s 9	12s57	21n37	21n22	9n29	16s24	6n57	
T 2	22 9	13 57	3 19	18 23	2 45	23 25	2 45	4 44	0 21	23 13	0 4	22 31	0 32	11 43	0 45	18 29	1 44	18 9	12 58	21 36	21 23	9 27	16 24	6 57	
F 3	22 17	9 25	4 11	18 5	2 59	23 12	2 43	4 49	0 19	23 13	0 4	22 31	0 32	11 42	0 45	18 28	1 44	18 9	12 58	21 36	21 23	9 25	16 24	6 58	
S 4	22 24	4 23	4 48	17 49	3 11	22 59	2 41	4 54	0 17	23 12	0 4	22 31	0 32	11 42	0 45	18 28	1 44	18 9	12 58	21 37	21 24	9 23	16 23	6 58	
S 5	22 31	0n54	5 8	17 34	3 22	22 45	2 39	4 59	0 15	23 12	0 4	22 30	0 32	11 41	0 45	18 28	1 44	18 9	12 59	21 37	21 24	9 21	16 23	6 59	
M 6	22 37	6 7	5 9	17 20	3 32	22 31	2 36	5 5	0 13	23 11	0 4	22 30	0 32	11 41	0 45	18 27	1 44	18 10	12 59	21 38	21 25	9 18	16 23	6 59	
T 7	22 43	10 58	4 51	17 9	3 41	22 16	2 33	5 10	0 11	23 11	0 3	22 29	0 32	11 40	0 45	18 27	1 44	18 10	13 0	21 39	21 25	9 16	16 23	6 59	
W 8	22 49	15 12	4 16	17 0	3 49	22 2	2 30	5 16	0 10	23 10	0 3	22 29	0 31	11 39	0 45	18 27	1 44	18 10	13 0	21 39	21 26	9 14	16 22	6 59	
T 9	22 54	18 32	3 26	16 52	3 55	21 46	2 27	5 22	0 8	23 9	0 3	22 28	0 31	11 39	0 45	18 26	1 44	18 11	13 0	21 40	21 26	9 12	16 22	7 0	
F 10	22 59	20 48	2 27	16 47	4 0	21 31	2 23	5 29	0 6	23 9	0 3	22 28	0 31	11 38	0 45	18 26	1 44	18 11	13 1	21 41	21 27	9 10	16 22	7 0	
S 11	23 3	21 54	1 20	16 44	4 4	21 15	2 20	5 35	0 4	23 8	0 3	22 27	0 31	11 38	0 45	18 26	1 44	18 11	13 1	21 41	21 27	9 8	16 22	7 0	
S 12	23 7	21 48	0 11	16 42	4 6	20 59	2 16	5 42	0 2	23 7	0 3	22 27	0 31	11 37	0 45	18 26	1 44	18 11	13 1	21 41	21 28	9 6	16 22	7 1	
M13	23 10	20 37	0n57	16 43	4 8	20 43	2 12	5 49	0 0	23 7	0 3	22 26	0 31	11 36	0 45	18 25	1 44	18 12	13 2	21 41	21 28	9 4	16 21	7 1	
T 14	23 14	18 28	2 2	16 45	4 8	20 27	2 7	5 56	0s 1	23 6	0 3	22 26	0 31	11 36	0 45	18 25	1 44	18 12	13 2	21 41	21 29	9 1	16 21	7 1	
W15	23 16	15 33	2 59	16 50	4 8	20 10	2 3	6 3	0 3	23 5	0 3	22 25	0 31	11 35	0 45	18 25	1 44	18 12	13 2	21 41	21 30	8 59	16 21	7 1	
T 16	23 19	12 1	3 49	16 56	4 6	19 53	1 58	6 10	0 5	23 4	0 3	22 25	0 31	11 34	0 45	18 24	1 44	18 13	13 3	21 40	21 30	8 57	16 21	7 2	
F 17	23 21	8 2	4 28	17 3	4 3	19 36	1 53	6 18	0 6	23 4	0 2	22 24	0 30	11 33	0 45	18 24	1 44	18 13	13 3	21 40	21 31	8 55	16 21	7 2	
S 18	23 22	3 45	4 56	17 13	4 0	19 19	1 48	6 26	0 8	23 3	0 2	22 24	0 30	11 33	0 45	18 24	1 44	18 13	13 3	21 40	21 31	8 53	16 21	7 2	
S 19	23 23	0s42	5 12	17 23	3 56	19 2	1 42	6 34	0 10	23 2	0 2	22 23	0 30	11 32	0 45	18 24	1 44	18 14	13 4	21 40	21 32	8 51	16 21	7 2	
M20	23 24	5 12	5 13	17 36	3 50	18 44	1 37	6 42	0 11	23 1	0 2	22 23	0 30	11 31	0 45	18 23	1 44	18 14	13 4	21 41	21 32	8 49	16 21	7 2	
T 21	23 24	9 34	5 1	17 49	3 44	18 27	1 31	6 50	0 13	23 0	0 2	22 22	0 30	11 30	0 45	18 23	1 44	18 15	13 4	21 41	21 33	8 46	16 20	7 2	
W22	23 24	13 39	4 33	18 3	3 38	18 9	1 24	6 59	0 14	22 59	0 2	22 21	0 30	11 29	0 45	18 23	1 44	18 15	13 5	21 42	21 33	8 44	16 20	7 2	
T 23	23 23	17 11	3 51	18 19	3 30	17 52	1 18	7 7	0 16	22 58	0 2	22 21	0 30	11 29	0 45	18 23	1 44	18 15	13 5	21 42	21 34	8 42	16 20	7 3	
F 24	23 22	19 55	2 55	18 35	3 22	17 34	1 11	7 16	0 17	22 57	0 2	22 20	0 30	11 28	0 45	18 22	1 44	18 16	13 6	21 42	21 34	8 40	16 20	7 3	
S 25	23 21	21 35	1 48	18 52	3 14	17 16	1 4	7 25	0 19	22 56	0 2	22 20	0 30	11 27	0 45	18 22	1 44	18 16	13 6	21 43	21 35	8 38	16 20	7 3	
S 26	23 19	21 58	0 33	19 10	3 5	16 59	0 57	7 34	0 20	22 55	0 2	22 19	0 30	11 26	0 45	18 22	1 44	18 17	13 6	21 43	21 35	8 36	16 20	7 3	
M27	23 17	20 58	0s45	19 28	2 55	16 41	0 49	7 43	0 22	22 54	0 1	22 18	0 30	11 25	0 44	18 22	1 43	18 17	13 7	21 43	21 36	8 33	16 20	7 3	
T 28	23 14	18 36	2 1	19 46	2 45	16 23	0 41	7 52	0 23	22 53	0 1	22 18	0 29	11 24	0 44	18 21	1 43	18 17	13 7	21 43	21 36	8 31	16 20	7 3	
W29	23 11	15 4	3 10	20 5	2 34	16 6	0 33	8 2	0 24	22 52	0 1	22 17	0 29	11 23	0 44	18 21	1 43	18 18	13 7	21 43	21 37	8 29	16 20	7 3	
T 30	23n 8	10s38	4s 7	20n24	2s23	15n48	0n24	8s11	0s26	22n51	0s 1	22n16	0s29	11n22	0n44	18s21	1n43	18s18	13s 8	21n42	21n37	8n27	16s20	7n 3	

ASTRODIENST EPHEMERIS for the year 2298
geocentric

JULY 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 36 45	9♂28'14	26♂54	18♂29	18♂28	20♂20	12♂4	13♂12	2♂14	29♂35	14♂R 8	21♂22	21♂51	18♂45	1♂R37	F 1
S 2	18 40 41	10°25'28	11♂7	19°56	18°56	20°42	12°17	13°20	2°16	29♂34	14♂R 8	21♂R22	21°48	18°52	1♂32	S 2
S 3	18 44 38	11°22'42	25°12	21°26	19°22	21°5	12°31	13°28	2°19	29°33	14°8	21°22	21°45	18°59	1°28	S 3
M 4	18 48 34	12°19'56	9♂6	22°59	19°47	21°29	12°44	13°36	2°22	29°32	14°7	21°21	21°42	19°5	1°24	M 4
T 5	18 52 31	13°17'11	22°48	24°35	20°10	21°52	12°58	13°43	2°24	29°31	14°7	21°20	21°39	19°12	1°20	T 5
W 6	18 56 27	14°14'25	6♂16	26°15	20°31	22°17	13°12	13°51	2°27	29°30	14°6	21°20	21°35	19°19	1°17	W 6
T 7	19 0 24	15°11'40	19°32	27°58	20°50	22°41	13°25	13°59	2°30	29°29	14°6	21°19	21°32	19°25	1°13	T 7
F 8	19 4 21	16°8'54	2♂32	29°44	21°8	23°6	13°39	14°7	2°33	29°28	14°5	21°18	21°29	19°32	1°9	F 8
S 9	19 8 17	17°6'09	15°19	1♂34	21°24	23°31	13°53	14°15	2°36	29°27	14°5	21°D18	21°26	19°39	1°5	S 9
S 10	19 12 14	18°3'24	27°52	3°26	21°37	23°57	14°6	14°23	2°38	29°26	14°4	21°18	21°23	19°45	1°1	S 10
M 11	19 16 10	19°0'38	10♂12	5°21	21°49	24°23	14°20	14°30	2°41	29°25	14°3	21°18	21°19	19°52	0°57	M 11
T 12	19 20 7	19°57'52	22°21	7°18	21°59	24°49	14°33	14°38	2°44	29°24	14°3	21°18	21°16	19°59	0°53	T 12
W 13	19 24 3	20°55'07	4♂21	9°18	22°6	25°16	14°47	14°46	2°47	29°23	14°2	21°R18	21°13	20°6	0°50	W 13
T 14	19 28 0	21°52'21	16°15	11°20	22°11	25°42	15°1	14°54	2°50	29°22	14°1	21°18	21°10	20°12	0°46	T 14
F 15	19 31 56	22°49'35	28°6	13°23	22°14	26°10	15°14	15°1	2°53	29°21	14°1	21°18	21°7	20°19	0°42	F 15
S 16	19 35 53	23°46'49	9♂59	15°29	22°R15	26°37	15°28	15°9	2°56	29°21	14°0	21°18	21°4	20°26	0°39	S 16
S 17	19 39 50	24°44'03	21°58	17°36	22°13	27°5	15°41	15°17	3°0	29°20	13°59	21°D18	21°0	20°32	0°35	S 17
M 18	19 43 46	25°41'16	4♂7	19°43	22°9	27°33	15°55	15°25	3°3	29°19	13°59	21°18	20°57	20°39	0°32	M 18
T 19	19 47 43	26°38'30	16°31	21°52	22°3	28°1	16°8	15°32	3°6	29°18	13°58	21°18	20°54	20°46	0°28	T 19
W 20	19 51 39	27°35'44	29°13	24°1	21°54	28°30	16°22	15°40	3°9	29°18	13°57	21°19	20°51	20°53	0°25	W 20
T 21	19 55 36	28°32'58	12♂18	26°9	21°43	28°59	16°35	15°48	3°12	29°17	13°56	21°20	20°48	20°59	0°22	T 21
F 22	19 59 32	29°30'13	25°46	28°18	21°29	29°28	16°49	15°55	3°16	29°17	13°55	21°20	20°44	21°6	0°18	F 22
S 23	20 3 29	0♂27'27	9♂39	0♂27	21°13	29°58	17°2	16°3	3°19	29°16	13°55	21°21	20°41	21°13	0°15	S 23
S 24	20 7 25	1°24'42	23°54	2°34	20°55	0♂27	17°16	16°11	3°22	29°15	13°54	21°R21	20°38	21°19	0°12	S 24
M 25	20 11 22	2°21'57	8♂27	4°41	20°34	0°57	17°29	16°18	3°26	29°15	13°53	21°21	20°35	21°26	0°9	M 25
T 26	20 15 19	3°19'12	23°12	6°47	20°12	1°28	17°42	16°26	3°29	29°14	13°52	21°20	20°32	21°33	0°6	T 26
W 27	20 19 15	4°16'29	8♂2	8°52	19°47	1°58	17°56	16°34	3°32	29°14	13°51	21°18	20°29	21°39	0°3	W 27
T 28	20 23 12	5°13'45	22°49	10°55	19°20	2°29	18°9	16°41	3°36	29°13	13°50	21°17	20°25	21°46	29♂59	T 28
F 29	20 27 8	6°11'03	7♂27	12°57	18°51	3°0	18°22	16°49	3°39	29°13	13°49	21°15	20°22	21°53	29°57	F 29
S 30	20 31 5	7°8'21	21°51	14°58	18°20	3°31	18°35	16°56	3°43	29°13	13°48	21°14	20°19	22°0	29°54	S 30
S 31	20 35 1	8♂5'41	5♂57	16♂57	17♂48	4♂3	18♂49	17♂4	3♂46	29♂12	13♂47	21°D13	20♂16	22♂6	29♂51	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	23n 4	5s38	4s48	20n43	2s12	15n31	0n16	8s21	0s27	22n50	0s 1	22n16	0s29	11n21	0n44	18s21
S 2	22 59	0 23	5 11	21 1	2 0	15 14	0 6	8 31	0 29	22 49	0 1	22 15	0 29	11 20	0 44	18 21
S 3	22 55	4n50	5 16	21 19	1 49	14 56	0s 3	8 41	0 30	22 48	0 1	22 14	0 29	11 19	0 44	18 20
M 4	22 50	9 44	5 2	21 36	1 37	14 40	0 13	8 51	0 31	22 47	0 1	22 14	0 29	11 18	0 44	18 20
T 5	22 44	14 5	4 30	21 53	1 24	14 23	0 23	9 1	0 32	22 45	0 1	22 13	0 29	11 17	0 44	18 20
W 6	22 38	17 38	3 44	22 9	1 12	14 6	0 33	9 11	0 34	22 44	0 1	22 12	0 29	11 16	0 44	18 20
T 7	22 32	20 13	2 47	22 23	1 0	13 50	0 43	9 21	0 35	22 43	0 1	22 11	0 29	11 15	0 44	18 20
F 8	22 25	21 40	1 42	22 37	0 47	13 34	0 54	9 31	0 36	22 42	0 0	22 11	0 29	11 14	0 44	18 19
S 9	22 18	21 58	0 33	22 48	0 35	13 19	1 6	9 42	0 37	22 40	0 0	22 10	0 28	11 13	0 44	18 19
S 10	22 11	21 9	0n36	22 58	0 23	13 3	1 17	9 52	0 38	22 39	0 0	22 9	0 28	11 12	0 44	18 19
M 11	22 3 19	19 19	1 43	23 6	0 11	12 49	1 29	10 3	0 40	22 38	0 0	22 9	0 28	11 11	0 44	18 19
T 12	21 55	16 37	2 44	23 13	0n 1	12 34	1 41	10 14	0 41	22 36	0 0	22 8	0 28	11 10	0 44	18 19
W 13	21 47	13 16	3 37	23 16	0 12	12 20	1 53	10 24	0 42	22 35	0n 0	22 7	0 28	11 9	0 44	18 19
T 14	21 38	9 24	4 20	23 18	0 23	12 6	2 6	10 35	0 43	22 34	0 0	22 6	0 28	11 8	0 44	18 19
F 15	21 28	5 13	4 52	23 17	0 33	11 53	2 19	10 46	0 44	22 32	0 0	22 5	0 28	11 7	0 44	18 18
S 16	21 19	0 49	5 11	23 13	0 43	11 41	2 32	10 57	0 45	22 31	0 0	22 5	0 28	11 6	0 44	18 18
S 17	21 9	3s38	5 17	23 7	0 52	11 29	2 45	11 8	0 46	22 29	0 0	22 4	0 28	11 4	0 44	18 18
M 18	20 58	8 1	5 9	22 58	1 1	11 17	2 59	11 19	0 47	22 28	0 1	22 3	0 28	11 3	0 44	18 18
T 19	20 48	12 9	4 47	22 46	1 9	11 6	3 12	11 30	0 48	22 26	0 1	22 2	0 28	11 2	0 44	18 18
W 20	20 36	15 52	4 10	22 31	1 16	10 56	3 26	11 41	0 49	22 25	0 1	22 1	0 28	11 1	0 44	18 18
T 21	20 25	18 56	3 20	22 14	1 23	10 46	3 40	11 53	0 50	22 23	0 1	22 1	0 28	11 0	0 44	18 18
F 22	20 13	21 3	2 17	21 55	1 29	10 37	3 54	12 4	0 51	22 22	0 1	22 0	0 27	10 58	0 44	18 18
S 23	20 1	21 59	1 4	21 33	1 34	10 29	4 8	12 15	0 52	22 20	0 1	21 59	0 27	10 57	0 44	18 18
S 24	19 49	21 31	0s14	21 8	1 38	10 22	4 22	12 26	0 53	22 18	0 1	21 58	0 27	10 56	0 44	18 18
M 25	19 36	19 37	1 33	20 42	1 41	10 15	4 36	12 38	0 54	22 17	0 1	21 57	0 27	10 55	0 44	18 18
T 26	19 23	16 24	2 47	20 13	1 44	10 9	4 49	12 49	0 55	22 15	0 1	21 56	0 27	10 54	0 44	18 18
W 27	19 9	12 6	3 50	19 43	1 46	10 4	5 3	13 1	0 56	22 13	0 1	21 56	0 27	10 52	0 44	18 17
T 28	18 56	7 6	4 38	19 10	1 47	9 59	5 16	13 12	0 57	22 12	0 1	21 55	0 27	10 51	0 44	18 17
F 29	18 42	1 45	5 7	18 37	1 47	9 55	5 30	13 24	0 57	22 10	0 2	21 54	0 27	10 50	0 44	18 17
S 30	18 27	3n37	5 16	18 2	1 47	9 52	5 42	13 35	0 58	22 8	0 2	21 53	0 27	10 49	0 44	18 17
S 31	18n13	8n40	5s 6	17n25	1n46	9n50	5s55	13s46	0s59	22n 7	0n 2	21n52	0s27	10n47	0n44	18s17

Julian Day Number = 2560568.5, Delta T = 294.38 sec
Ecliptic obliquity = 23°23'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 28°54'45, Lahiri = 28°01'46

ASTRODIENST EPHEMERIS for the year 2298

geocentric

AUGUST 2298

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 38 58	9♏ 3'01	19♌44	18♏54	17♏15	4♏34	19♌2	17♌11	3♏49	29♏12	13♏R46	21♌14	20♌13	22♏13	29♏R49	M 1
T 2	20 42 54	10° 0'23	3♏12	20°50	16♏40	5° 6	19°15	17°19	3°53	29♏12	13♏R45	21°15	20°10	22°20	29♏R46	T 2
W 3	20 46 51	10°57'45	16°22	22°44	16° 4	5°38	19°28	17°26	3°56	29°11	13°44	21°16	20° 6	22°26	29°43	W 3
T 4	20 50 48	11°55'09	29°16	24°37	15°28	6°11	19°41	17°33	4° 0	29°11	13°43	21°17	20° 3	22°33	29°41	T 4
F 5	20 54 44	12°52'33	11♌56	26°28	14°51	6°43	19°54	17°41	4° 4	29°11	13°42	21°18	20° 0	22°40	29°39	F 5
S 6	20 58 41	13°49'58	24°24	28°17	14°14	7°16	20° 7	17°48	4° 7	29°11	13°41	21°R19	19°57	22°47	29°36	S 6
S 7	21 2 37	14°47'25	6♏41	0♏ 4	13°36	7°49	20°20	17°55	4°11	29°11	13°40	21°18	19°54	22°53	29°34	S 7
M 8	21 6 34	15°44'52	18°50	1°50	12°59	8°22	20°33	18° 3	4°14	29°11	13°39	21°16	19°50	23° 0	29°32	M 8
T 9	21 10 30	16°42'20	0♏51	3°35	12°22	8°56	20°46	18°10	4°18	29°10	13°38	21°13	19°47	23° 7	29°30	T 9
W10	21 14 27	17°39'49	12°46	5°17	11°46	9°30	20°59	18°17	4°22	29°10	13°37	21° 8	19°44	23°13	29°28	W10
T 11	21 18 23	18°37'18	24°38	6°58	11°11	10° 3	21°12	18°24	4°25	29°D10	13°36	21° 4	19°41	23°20	29°26	T 11
F 12	21 22 20	19°34'49	6♌29	8°38	10°37	10°38	21°25	18°31	4°29	29°10	13°34	20°59	19°38	23°27	29°24	F 12
S 13	21 26 17	20°32'20	18°21	10°16	10° 4	11°12	21°37	18°38	4°33	29°11	13°33	20°55	19°35	23°33	29°22	S 13
S 14	21 30 13	21°29'52	0♏19	11°52	9°32	11°46	21°50	18°45	4°36	29°11	13°32	20°52	19°31	23°40	29°21	S 14
M15	21 34 10	22°27'25	12°26	13°26	9° 2	12°21	22° 2	18°52	4°40	29°11	13°31	20°50	19°28	23°47	29°19	M15
T 16	21 38 6	23°24'59	24°46	15° 0	8°34	12°56	22°15	18°59	4°44	29°11	13°30	20°D49	19°25	23°54	29°18	T 16
W17	21 42 3	24°22'34	7♌25	16°31	8° 8	13°31	22°28	19° 6	4°47	29°11	13°29	20°50	19°22	24° 0	29°16	W17
T 18	21 45 59	25°20'09	20°25	18° 1	7°43	14° 6	22°40	19°13	4°51	29°11	13°27	20°51	19°19	24° 7	29°15	T 18
F 19	21 49 56	26°17'46	3♌51	19°29	7°21	14°41	22°52	19°20	4°55	29°12	13°26	20°53	19°16	24°14	29°14	F 19
S 20	21 53 52	27°15'24	17°45	20°56	7° 1	15°17	23° 5	19°26	4°58	29°12	13°25	20°R54	19°12	24°20	29°12	S 20
S 21	21 57 49	28°13'02	2♌ 5	22°21	6°44	15°53	23°17	19°33	5° 2	29°12	13°24	20°53	19° 9	24°27	29°11	S 21
M22	22 1 46	29°10'42	16°49	23°44	6°28	16°29	23°29	19°40	5° 6	29°13	13°23	20°51	19° 6	24°34	29°10	M22
T 23	22 5 42	0♏ 8'23	1♌51	25° 6	6°15	17° 5	23°41	19°46	5°10	29°13	13°21	20°47	19° 3	24°41	29° 9	T 23
W24	22 9 39	1° 6'05	2♏ 2	26°25	6° 5	17°41	23°53	19°53	5°13	29°13	13°20	20°42	19° 0	24°47	29° 9	W24
T 25	22 13 35	2° 3'48	2♏11	27°44	5°57	18°17	24° 6	19°59	5°17	29°14	13°19	20°36	18°56	24°54	29° 8	T 25
F 26	22 17 32	3° 1'33	17°10	29° 0	5°51	18°54	24°18	20° 6	5°21	29°14	13°18	20°30	18°53	25° 1	29° 7	F 26
S 27	22 21 28	3°59'20	1♌49	0♌14	5°48	19°31	24°29	20°12	5°25	29°15	13°17	20°26	18°50	25° 7	29° 7	S 27
S 28	22 25 25	4°57'08	16° 5	1°27	5°D47	20° 8	24°41	20°19	5°28	29°15	13°15	20°22	18°47	25°14	29° 6	S 28
M29	22 29 21	5°54'58	29°54	2°37	5°49	20°45	24°53	20°25	5°32	29°16	13°14	20°D21	18°44	25°21	29° 6	M29
T 30	22 33 18	6°52'50	13♏18	3°45	5°52	21°22	25° 5	20°31	5°36	29°17	13°13	20°21	18°41	25°28	29° 5	T 30
W31	22 37 15	7♏50'43	26♏20	4♌51	5♏58	21♏59	25♌16	20♌37	5♏40	29♏17	13♏12	20♌22	18♌37	25♏34	29♏ 5	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	17n58	13n11	4s38	16n47	1n45	9n49	6s 6	13s58	1s 0	22n 5	0n 2	21n51	0s27	10n46	0n44	18s17
T 2	17 43	16 55	3 55	16 9	1 43	9 48	6 18	14 9	1 1	22 3	0 2	21 50	0 27	10 45	0 44	18 17
W 3	17 27	19 42	3 1	15 29	1 40	9 48	6 29	14 21	1 2	22 1	0 2	21 50	0 27	10 44	0 44	18 17
T 4	17 11	21 25	1 59	14 49	1 37	9 49	6 39	14 32	1 2	22 0	0 2	21 49	0 27	10 42	0 44	18 17
F 5	16 55	22 1	0 51	14 8	1 33	9 50	6 48	14 44	1 3	21 58	0 2	21 48	0 26	10 41	0 44	18 17
S 6	16 39	21 29	0n17	13 26	1 29	9 52	6 57	14 55	1 4	21 56	0 2	21 47	0 26	10 40	0 44	18 17
S 7	16 22	19 55	1 24	12 44	1 24	9 55	7 5	15 7	1 5	21 54	0 2	21 46	0 26	10 38	0 44	18 17
M 8	16 5	17 28	2 25	12 2	1 19	9 58	7 12	15 18	1 5	21 52	0 3	21 45	0 26	10 37	0 44	18 17
T 9	15 48	14 16	3 20	11 19	1 13	10 2	7 19	15 30	1 6	21 50	0 3	21 44	0 26	10 36	0 44	18 17
W10	15 31	10 32	4 6	10 36	1 7	10 6	7 24	15 41	1 7	21 49	0 3	21 43	0 26	10 34	0 44	18 18
T 11	15 13	6 25	4 40	9 53	1 1	10 11	7 29	15 53	1 8	21 47	0 3	21 42	0 26	10 33	0 44	18 18
F 12	14 55	2 4	5 3	9 10	0 55	10 16	7 33	16 4	1 8	21 45	0 3	21 42	0 26	10 32	0 44	18 18
S 13	14 37	2s22	5 12	8 27	0 48	10 21	7 36	16 15	1 9	21 43	0 3	21 41	0 26	10 30	0 44	18 18
S 14	14 19	6 45	5 8	7 43	0 40	10 27	7 39	16 27	1 10	21 41	0 3	21 40	0 26	10 29	0 44	18 18
M15	14 0	10 55	4 51	7 0	0 33	10 33	7 40	16 38	1 10	21 39	0 3	21 39	0 26	10 28	0 44	18 18
T 16	13 42	14 44	4 19	6 17	0 25	10 40	7 41	16 49	1 11	21 37	0 3	21 38	0 26	10 26	0 44	18 18
W17	13 22	17 58	3 35	5 35	0 17	10 46	7 41	17 0	1 12	21 35	0 3	21 37	0 26	10 25	0 44	18 18
T 18	13 3	20 25	2 39	4 52	0 9	10 53	7 40	17 12	1 12	21 33	0 4	21 36	0 26	10 24	0 44	18 18
F 19	12 44	21 49	1 32	4 10	0 0	11 0	7 39	17 23	1 13	21 31	0 4	21 35	0 26	10 22	0 44	18 18
S 20	12 24	21 56	0 17	3 28	0s 8	11 6	7 37	17 34	1 13	21 29	0 4	21 34	0 26	10 21	0 44	18 18
S 21	12 4	20 39	1s 1	2 46	0 17	11 13	7 34	17 45	1 14	21 28	0 4	21 33	0 25	10 19	0 44	18 19
M22	11 44	17 56	2 16	2 5	0 26	11 20	7 31	17 56	1 15	21 26	0 4	21 33	0 25	10 18	0 43	18 19
T 23	11 24	13 58	3 24	1 25	0 35	11 27	7 27	18 7	1 15	21 24	0 4	21 32	0 25	10 17	0 43	18 19
W24	11 4	9 4	4 18	0 44	0 44	11 33	7 23	18 17	1 16	21 22	0 4	21 31	0 25	10 15	0 43	18 19
T 25	10 43	3 37	4 54	0 5	0 54	11 40	7 18	18 28	1 16	21 20	0 4	21 30	0 25	10 14	0 43	18 19
F 26	10 23	1n58	5 9	0s34	1 3	11 46	7 13	18 39	1 17	21 18	0 4	21 29	0 25	10 13	0 43	18 19
S 27	10 2	7 20	5 3	1 12	1 13	11 53	7 7	18 49	1 17	21 16	0 4	21 28	0 25	10 11	0 43	18 19
S 28	9 41	12 10	4 39	1 50	1 22	11 59	7 2	19 0	1 18	21 14	0 5	21 27	0 25	10 10	0 44	18 20
M29	9 20	16 12	3 59	2 26	1 32	12 4	6 55	19 10	1 18	21 12	0 5	21 26	0 25	10 8	0 44	18 20
T 30	8 58	19 16	3 7	3 2	1 41	12 10	6 49	19 20	1 19	21 10	0 5	21 26	0 25	10 7	0 44	18 20
W31	8n37	21n15	2s 6	3s37	1s51	12n15	6s42	19s31	1s19	21n 8	0n 5	21n25	0s25	10n 6	0n44	18s20

Julian Day Number = 2560599.5, Delta T = 294.53 sec
 Ecliptic obliquity = 23°23'58, Nutation = - 0°00'15, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 28°54'50, Lahiri = 28°01'50

ASTRODIENST EPHEMERIS for the year 2298

geocentric

OCTOBER 2298

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 28	7♂59'15	12♂52	5°R 6	22♂144	12♂26	0♂33	23♂13	7♂32	29♂52	12°R34	18°R 0	16♂59	29♂2	29♂44	S 1
S 2	0 43 24	8°58'06	24°51	4♂ 5	23°35	13° 8	0°42	23°17	7°35	29°53	12♂32	17♂55	16°56	29° 9	29°46	S 2
M 3	0 47 21	9°56'59	6♂44	3°10	24°26	13°49	0°50	23°20	7°39	29°55	12°31	17°47	16°53	29°16	29°49	M 3
T 4	0 51 17	10°55'55	18°34	2°21	25°18	14°31	0°58	23°24	7°42	29°57	12°30	17°36	16°49	29°23	29°52	T 4
W 5	0 55 14	11°54'52	0♂25	1°40	26°11	15°13	1° 6	23°27	7°45	29°58	12°29	17°24	16°46	29°29	29°55	W 5
T 6	0 59 10	12°53'51	12°18	1° 8	27° 4	15°55	1°14	23°31	7°48	29°59	12°28	17° 9	16°43	29°36	29°58	T 6
F 7	1 3 7	13°52'52	24°15	0°46	27°58	16°37	1°22	23°34	7°52	0♂ 2	12°27	16°55	16°40	29°43	0♂ 1	F 7
S 8	1 7 4	14°51'56	6♂15	0°33	28°53	17°19	1°30	23°37	7°55	0° 3	12°26	16°41	16°37	29°49	0° 4	S 8
S 9	1 11 0	15°51'01	18°22	0°D32	29°48	18° 1	1°37	23°40	7°58	0° 5	12°25	16°30	16°33	29°56	0° 7	S 9
M10	1 14 57	16°50'08	0♂36	0°41	0♂44	18°44	1°45	23°43	8° 1	0° 7	12°24	16°21	16°30	0♂ 3	0°11	M10
T 11	1 18 53	17°49'17	13° 0	1° 0	1°40	19°26	1°52	23°46	8° 4	0° 8	12°23	16°15	16°27	0°10	0°14	T 11
W12	1 22 50	18°48'28	25°37	1°29	2°37	20° 9	1°59	23°49	8° 7	0°10	12°22	16°12	16°24	0°16	0°17	W12
T 13	1 26 46	19°47'41	8♂30	2° 7	3°34	20°52	2° 6	23°51	8°10	0°12	12°21	16°11	16°21	0°23	0°21	T 13
F 14	1 30 43	20°46'55	21°43	2°54	4°32	21°34	2°13	23°54	8°14	0°14	12°20	16°11	16°18	0°30	0°25	F 14
S 15	1 34 39	21°46'11	5♂20	3°49	5°30	22°17	2°20	23°56	8°16	0°16	12°19	16°10	16°14	0°36	0°28	S 15
S 16	1 38 36	22°45'29	19°21	4°52	6°29	23° 0	2°26	23°59	8°19	0°18	12°18	16° 8	16°11	0°43	0°32	S 16
M17	1 42 33	23°44'48	3♂48	6° 1	7°28	23°43	2°33	24° 1	8°22	0°19	12°17	16° 4	16° 8	0°50	0°36	M17
T 18	1 46 29	24°44'10	18°38	7°15	8°28	24°26	2°39	24° 3	8°25	0°21	12°16	15°57	16° 5	0°57	0°40	T 18
W19	1 50 26	25°43'33	3♂44	8°34	9°28	25°10	2°45	24° 5	8°28	0°23	12°16	15°48	16° 2	1° 3	0°44	W19
T 20	1 54 22	26°42'57	18°58	9°58	10°28	25°53	2°51	24° 7	8°31	0°25	12°15	15°37	15°59	1°10	0°48	T 20
F 21	1 58 19	27°42'24	♂ 8	11°26	11°29	26°36	2°57	24° 9	8°34	0°27	12°14	15°26	15°55	1°17	0°52	F 21
S 22	2 2 15	28°41'53	19° 4	12°56	12°31	27°20	3° 3	24°10	8°36	0°29	12°13	15°16	15°52	1°23	0°56	S 22
S 23	2 6 12	29°41'25	3♂37	14°29	13°32	28° 3	3° 8	24°12	8°39	0°31	12°12	15° 8	15°49	1°30	1° 0	S 23
M24	2 10 8	0♂40'58	17°43	16° 4	14°35	28°47	3°13	24°13	8°42	0°33	12°12	15° 3	15°46	1°37	1° 4	M24
T 25	2 14 5	1°40'34	1♂18	17°41	15°37	29°31	3°19	24°15	8°44	0°35	12°11	15° 0	15°43	1°44	1° 9	T 25
W26	2 18 2	2°40'12	14°26	19°19	16°40	0♂14	3°23	24°16	8°47	0°37	12°10	14°D59	15°39	1°50	1°13	W26
T 27	2 21 58	3°39'52	27° 8	20°58	17°43	0°58	3°28	24°17	8°50	0°39	12° 9	15° 0	15°36	1°57	1°18	T 27
F 28	2 25 55	4°39'34	9♂30	22°37	18°47	1°42	3°33	24°18	8°52	0°41	12° 9	15°R 0	15°33	2° 4	1°22	F 28
S 29	2 29 51	5°39'19	21°37	24°18	19°50	2°26	3°37	24°19	8°55	0°43	12° 8	14°58	15°30	2°10	1°27	S 29
S 30	2 33 48	6°39'05	3♂34	25°58	20°55	3°10	3°42	24°20	8°57	0°45	12° 7	14°55	15°27	2°17	1°32	S 30
M31	2 37 44	7♂38'54	15♂26	27♂39	21♂59	3♂55	3♂46	24♂21	8♂59	0♂48	12♂ 7	14♂49	15♂24	2♂24	1♂36	M31

Day	☉	☽		♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	3s10	18n57	2n 7	4s 6	2s16	11n31	2s32	23s43	1s29	20n 8	0n 9	21n 2	0s23	9n25	0n44	18s29	1n38	19s 8	13s21	22n12	22n19	4n52	16s56	6n28	
S 2	3 33	16 4	3 1	3 25	1 57	11 22	2 24	23 49	1 29	20 7	0 9	21 1	0 23	9 23	0 44	18 29	1 38	19 8	13 21	22 12	22 20	4 50	16 56	6 28	
M 3	3 56	12 32	3 47	2 44	1 37	11 12	2 17	23 54	1 30	20 5	0 9	21 0	0 23	9 22	0 44	18 30	1 38	19 8	13 20	22 13	22 20	4 48	16 57	6 27	
T 4	4 19	8 32	4 22	2 6	1 17	11 2	2 9	23 59	1 30	20 3	0 9	21 0	0 23	9 21	0 44	18 30	1 38	19 9	13 20	22 15	22 21	4 45	16 57	6 27	
W 5	4 42	4 13	4 47	1 31	0 56	10 52	2 2	24 4	1 30	20 2	0 9	20 59	0 23	9 20	0 44	18 31	1 38	19 9	13 20	22 16	22 21	4 43	16 58	6 26	
T 6	5 5	0s17	4 58	1 0	0 36	10 40	1 54	24 9	1 30	20 0	0 9	20 59	0 23	9 18	0 44	18 31	1 38	19 9	13 20	22 18	22 21	4 40	16 58	6 26	
F 7	5 28	4 47	4 57	0 34	0 17	10 29	1 47	24 13	1 30	19 58	0 9	20 58	0 23	9 17	0 44	18 31	1 38	19 9	13 20	22 20	22 22	4 38	16 59	6 25	
S 8	5 51	9 8	4 42	0 12	0n 2	10 17	1 40	24 18	1 30	19 57	0 9	20 58	0 23	9 16	0 44	18 32	1 38	19 10	13 20	22 22	22 22	4 35	16 59	6 25	
S 9	6 14	13 11	4 15	0n 5	0 19	10 4	1 33	24 22	1 30	19 55	0 10	20 57	0 23	9 15	0 44	18 32	1 38	19 10	13 20	22 23	22 23	4 33	17 0	6 24	
M10	6 36	16 44	3 36	0 16	0 35	9 51	1 26	24 26	1 30	19 54	0 10	20 57	0 23	9 14	0 44	18 33	1 38	19 10	13 20	22 24	22 23	4 31	17 0	6 24	
T 11	6 59	19 35	2 45	0 22	0 50	9 38	1 19	24 29	1 31	19 52	0 10	20 57	0 23	9 13	0 44	18 33	1 38	19 10	13 19	22 25	22 23	4 28	17 1	6 23	
W12	7 21	21 33	1 46	0 23	1 3	9 24	1 12	24 32	1 31	19 51	0 10	20 56	0 23	9 12	0 44	18 33	1 38	19 11	13 19	22 25	22 24	4 26	17 1	6 23	
T 13	7 44	22 27	0 40	0 18	1 15	9 10	1 6	24 36	1 31	19 49	0 10	20 56	0 23	9 10	0 44	18 34	1 38	19 11	13 19	22 25	22 24	4 23	17 1	6 23	
F 14	8 6	22 8	0s29	0 9	1 25	8 55	0 59	24 39	1 31	19 48	0 10	20 55	0 22	9 9	0 44	18 34	1 38	19 11	13 19	22 25	22 24	4 21	17 2	6 22	
S 15	8 28	20 31	1 39	0s 4	1 34	8 40	0 53	24 41	1 31	19 47	0 10	20 55	0 22	9 8	0 44	18 35	1 38	19 11	13 19	22 25	22 25	4 18	17 2	6 22	
S 16	8 50	17 37	2 46	0 22	1 42	8 24	0 46	24 44	1 31	19 45	0 11	20 55	0 22	9 7	0 44	18 35	1 38	19 12	13 19	22 26	22 25	4 16	17 3	6 21	
M17	9 12	13 34	3 43	0 44	1 48	8 8	0 40	24 46	1 31	19 44	0 11	20 54	0 22	9 6	0 44	18 36	1 38	19 12	13 18	22 26	22 26	4 14	17 3	6 21	
T 18	9 34	8 36	4 28	1 9	1 53	7 52	0 34	24 48	1 31	19 43	0 11	20 54	0 22	9 5	0 44	18 36	1 38	19 12	13 18	22 27	22 26	4 11	17 4	6 20	
W19	9 56	3 1	4 54	1 37	1 57	7 35	0 28	24 50	1 31	19 41	0 11	20 54	0 22	9 4	0 44	18 36	1 38	19 12	13 18	22 28	22 26	4 9	17 4	6 20	
T 20	10 17	2n47	5 0	2 7	1 59	7 17	0 22	24 51	1 31	19 40	0 11	20 53	0 22	9 3	0 44	18 37	1 38	19 12	13 18	22 29	22 27	4 6	17 4	6 20	
F 21	10 38	8 24	4 45	2 40	2 1	7 0	0 16	24 52	1 31	19 39	0 11	20 53	0 22	9 2	0 44	18 37	1 38	19 12	13 18	22 31	22 27	4 4	17 5	6 19	
S 22	11 0	13 26	4 10	3 14	2 1	6 42	0 10	24 53	1 31	19 38	0 11	20 53	0 22	9 1	0 44	18 38	1 38	19 13	13 17	22 32	22 27	4 1	17 5	6 19	
S 23	11 21	17 34	3 20	3 51	2 1	6 23	0 5	24 54	1 31	19 37	0 12	20 53	0 22	9 0	0 45	18 38	1 38	19 13	13 17	22 33	22 28	3 59	17 6	6 18	
M24	11 42	20 31	2 19	4 28	2 0	6 5	0n 1	24 55	1 31	19 36	0 12	20 52	0 22	8 59	0 45	18 39	1 38	19 13	13 17	22 33	22 28	3 56	17 6	6 18	
T 25	12 2	22 12	1 12	5 7	1 58	5 46	0 6	24 55	1 31	19 35	0 12	20 52	0 22	8 58	0 45	18 39	1 38	19 13	13 17	22 33	22 29	3 54	17 6	6 17	
W26	12 23	22 34	0 3	5 46	1 55	5 26	0 12	24 55	1 31	19 34	0 12	20 52	0 22	8 57	0 45	18 39	1 37	19 13	13 17	22 34	22 29	3 51	17 7	6 17	
T 27	12 43	21 45	1n 4	6 26	1 52	5 6	0 17	24 54	1 31	19 33	0 12	20 52	0 22	8 56	0 45	18 40	1 37	19 13	13 16	22 33	22 29	3 49	17 7	6 17	
F 28	13 3	19 52	2 6	7 6	1 49	4 46	0 22	24 54	1 31	19 32	0 12	20 52	0 22	8 55	0 45	18 40	1 37	19 13	13 16	22 33	22 30	3 46	17 7	6 16	
S 29	13 23	17 8	3 2	7 47	1 44	4 26	0 27	24 53	1 31	19 31	0 12	20 52	0 22	8 54	0 45	18 41	1 37	19 13	13 16	22 34	22 30	3 44	17 8	6 16	
S 30	13 43	13 43	3 48	8 28	1 40	4 5	0 32	24 52	1 30	19 30	0 13	20 52	0 22	8 54	0 45	18 41	1 37	19 13	13 16	22 34	22 30	3 41	17 8	6 16	
M31	14s 2	9n48	4n24	9s 8	1n35	3n44	0n36	24s51	1s30	19n29	0n13	20n52	0s21	8n53	0n45	18s42	1n37	19s13	13s15	22n35	22n31	3n39	17s 8	6n15	

ASTRODIENST EPHEMERIS for the year 2298
geocentric

NOVEMBER 2298

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 41 41	8♑38'45	27♑16	29♑20	23♑4	4♑39	3♑50	24♑21	9♑2	0♑50	12°R 6	14°R40	15♑20	2♑31	1♑41	T 1
W 2	2 45 37	9°38'39	9♑8	1♑1	24°9	5°23	3°53	24°22	9°4	0°52	12♑6	14♑29	15°17	2°37	1°46	W 2
T 3	2 49 34	10°38'34	21°5	2°41	25°14	6°8	3°57	24°22	9°6	0°54	12°5	14°17	15°14	2°44	1°51	T 3
F 4	2 53 30	11°38'31	3♑8	4°22	26°20	6°52	4°0	24°22	9°8	0°56	12°4	14°5	15°11	2°51	1°56	F 4
S 5	2 57 27	12°38'30	15°19	6°2	27°26	7°37	4°4	24°22	9°11	0°58	12°4	13°53	15°8	2°58	2°1	S 5
S 6	3 1 24	13°38'31	27°38	7°42	28°32	8°22	4°7	24°R22	9°13	1°0	12°3	13°43	15°4	3°4	2°6	S 6
M 7	3 5 20	14°38'34	10♑6	9°21	29°38	9°6	4°9	24°22	9°15	1°3	12°3	13°36	15°1	3°11	2°11	M 7
T 8	3 9 17	15°38'39	22°44	11°0	0♑45	9°51	4°12	24°22	9°17	1°5	12°3	13°31	14°58	3°18	2°17	T 8
W 9	3 13 13	16°38'46	5♑33	12°39	1°52	10°36	4°15	24°22	9°19	1°7	12°2	13°29	14°55	3°24	2°22	W 9
T 10	3 17 10	17°38'54	18°35	14°18	2°59	11°21	4°17	24°21	9°21	1°9	12°2	13°D29	14°52	3°31	2°27	T 10
F 11	3 21 6	18°39'03	1♑52	15°56	4°6	12°6	4°19	24°21	9°23	1°11	12°1	13°29	14°49	3°38	2°33	F 11
S 12	3 25 3	19°39'14	15°26	17°33	5°14	12°51	4°21	24°20	9°24	1°14	12°1	13°R30	14°45	3°45	2°38	S 12
S 13	3 29 0	20°39'27	29°19	19°11	6°21	13°36	4°22	24°19	9°26	1°16	12°1	13°30	14°42	3°51	2°43	S 13
M14	3 32 56	21°39'41	13♑31	20°47	7°29	14°21	4°24	24°18	9°28	1°18	12°0	13°28	14°39	3°58	2°49	M14
T 15	3 36 53	22°39'56	28°1	22°24	8°37	15°7	4°25	24°17	9°30	1°20	12°0	13°23	14°36	4°5	2°55	T 15
W16	3 40 49	23°40'13	12♑44	24°0	9°46	15°52	4°26	24°16	9°31	1°22	12°0	13°17	14°33	4°11	3°0	W16
T 17	3 44 46	24°40'31	27°35	25°36	10°54	16°37	4°27	24°15	9°33	1°25	12°0	13°10	14°30	4°18	3°6	T 17
F 18	3 48 42	25°40'51	12♑26	27°12	12°3	17°23	4°28	24°14	9°34	1°27	11°59	13°2	14°26	4°25	3°11	F 18
S 19	3 52 39	26°41'12	27°8	28°47	13°12	18°8	4°28	24°12	9°36	1°29	11°59	12°55	14°23	4°32	3°17	S 19
S 20	3 56 35	27°41'35	11♑33	0♑22	14°21	18°54	4°29	24°11	9°37	1°31	11°59	12°50	14°20	4°38	3°23	S 20
M21	4 0 32	28°42'00	25°36	1°56	15°30	19°39	4°R29	24°9	9°39	1°34	11°59	12°46	14°17	4°45	3°29	M21
T 22	4 4 29	29°42'27	9♑13	3°31	16°39	20°25	4°29	24°7	9°40	1°36	11°59	12°D45	14°14	4°52	3°35	T 22
W23	4 8 25	0♑42'55	22°24	5°5	17°49	21°11	4°29	24°6	9°41	1°38	11°59	12°45	14°10	4°58	3°41	W23
T 24	4 12 22	1°43'25	5♑11	6°39	18°58	21°57	4°28	24°4	9°42	1°40	11°59	12°46	14°7	5°5	3°46	T 24
F 25	4 16 18	2°43'57	17°38	8°12	20°8	22°42	4°27	24°2	9°44	1°43	11°59	12°48	14°4	5°12	3°52	F 25
S 26	4 20 15	3°44'30	29°48	9°46	21°18	23°28	4°26	23°59	9°45	1°45	11°D59	12°R49	14°1	5°19	3°58	S 26
S 27	4 24 11	4°45'06	11♑47	11°19	22°29	24°14	4°25	23°57	9°46	1°47	11°59	12°49	13°58	5°25	4°5	S 27
M28	4 28 8	5°45'42	23°40	12°52	23°39	25°0	4°24	23°55	9°47	1°49	11°59	12°47	13°55	5°32	4°11	M28
T 29	4 32 4	6°46'21	5♑32	14°25	24°49	25°46	4°23	23°52	9°48	1°52	11°59	12°43	13°51	5°39	4°17	T 29
W30	4 36 1	7♑47'01	17♑26	15♑58	26♑0	26♑32	4♑21	23♑50	9♑49	1♑54	11♑59	12♑39	13♑48	5♑46	4♑23	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	14s22	5n30	4n49	9s49	1n30	3n23	0n41	24s49	1s30	19n28	0n13	20n52	0s21	8n52	0n45	18s42	1n37	19s13	13s15	22n36	22n31	3n37	17s9	6n15			
W 2	14 41	1 0	5 1	10 29	1 24	3 1	0 46	24 48	1 30	19 28	0 13	20 52	0 21	8 51	0 45	18 43	1 37	19 13	13 15	22 37	22 32	3 34	17 9	6 15			
T 3	14 59	3s34	5 0	11 9	1 19	2 39	0 50	24 45	1 30	19 27	0 13	20 52	0 21	8 50	0 45	18 43	1 37	19 13	13 15	22 38	22 32	3 32	17 9	6 14			
F 4	15 18	8 3	4 46	11 49	1 13	2 17	0 54	24 43	1 30	19 26	0 13	20 52	0 21	8 49	0 45	18 43	1 37	19 13	13 14	22 39	22 32	3 29	17 9	6 14			
S 5	15 36	12 16	4 19	12 28	1 7	1 55	0 58	24 41	1 30	19 26	0 14	20 52	0 21	8 49	0 45	18 44	1 37	19 13	13 14	22 41	22 33	3 27	17 10	6 14			
S 6	15 54	16 2	3 39	13 6	1 0	1 32	1 3	24 38	1 30	19 25	0 14	20 52	0 21	8 48	0 45	18 44	1 37	19 13	13 14	22 42	22 33	3 24	17 10	6 13			
M 7	16 12	19 9	2 48	13 44	0 54	1 10	1 6	24 35	1 29	19 25	0 14	20 52	0 21	8 47	0 45	18 45	1 37	19 13	13 14	22 42	22 33	3 22	17 10	6 13			
T 8	16 30	21 24	1 49	14 21	0 47	0 47	1 10	24 31	1 29	19 24	0 14	20 52	0 21	8 46	0 45	18 45	1 37	19 13	13 13	22 43	22 34	3 19	17 10	6 13			
W 9	16 47	22 35	0 42	14 58	0 41	0 24	1 14	24 28	1 29	19 24	0 14	20 52	0 21	8 46	0 45	18 46	1 37	19 13	13 13	22 43	22 34	3 17	17 11	6 12			
T 10	17 4	22 34	0s27	15 34	0 34	0 0	1 17	24 24	1 29	19 23	0 14	20 52	0 21	8 45	0 45	18 46	1 37	19 13	13 13	22 43	22 34	3 14	17 11	6 12			
F 11	17 21	21 17	1 37	16 9	0 27	0s23	1 21	24 19	1 29	19 23	0 15	20 52	0 21	8 44	0 45	18 47	1 37	19 13	13 13	22 43	22 35	3 12	17 11	6 12			
S 12	17 37	18 46	2 43	16 43	0 20	0 47	1 24	24 15	1 29	19 23	0 15	20 52	0 21	8 44	0 45	18 47	1 37	19 13	13 12	22 43	22 35	3 9	17 11	6 11			
S 13	17 53	15 8	3 41	17 16	0 14	1 11	1 27	24 10	1 28	19 23	0 15	20 53	0 21	8 43	0 45	18 48	1 37	19 13	13 12	22 43	22 35	3 7	17 11	6 11			
M14	18 9	10 34	4 26	17 49	0 7	1 35	1 31	24 5	1 28	19 22	0 15	20 53	0 21	8 42	0 45	18 48	1 37	19 12	13 12	22 43	22 36	3 4	17 11	6 11			
T 15	18 24	5 19	4 56	18 20	0 0	1 59	1 34	24 0	1 28	19 22	0 15	20 53	0 21	8 42	0 45	18 49	1 37	19 12	13 12	22 44	22 36	3 2	17 12	6 11			
W16	18 40	0n18	5 7	18 51	0s7	2 23	1 36	23 55	1 28	19 22	0 15	20 53	0 20	8 41	0 45	18 49	1 37	19 12	13 11	22 44	22 36	2 59	17 12	6 10			
T 17	18 54	5 58	4 57	19 21	0 13	2 47	1 39	23 49	1 28	19 22	0 16	20 54	0 20	8 41	0 45	18 49	1 37	19 12	13 11	22 45	22 37	2 57	17 12	6 10			
F 18	19 9	11 17	4 28	19 49	0 20	3 11	1 42	23 43	1 27	19 22	0 16	20 54	0 20	8 40	0 46	18 50	1 37	19 12	13 11	22 46	22 37	2 54	17 12	6 10			
S 19	19 23	15 54	3 41	20 17	0 27	3 36	1 44	23 37	1 27	19 22	0 16	20 54	0 20	8 40	0 46	18 50	1 37	19 12	13 11	22 46	22 37	2 52	17 12	6 10			
S 20	19 37	19 29	2 40	20 44	0 33	4 0	1 47	23 30	1 27	19 22	0 16	20 55	0 20	8 39	0 46	18 51	1 37	19 11	13 10	22 47	22 38	2 49	17 12	6 9			
M21	19 50	21 48	1 31	21 10	0 40	4 25	1 49	23 23	1 26	19 22	0 16	20 55	0 20	8 39	0 46	18 51	1 37	19 11	13 10	22 47	22 38	2 47	17 12	6 9			
T 22	20 3	22 46	0 19	21 34	0 46	4 49	1 51	23 16	1 26	19 22	0 16	20 55	0 20	8 38	0 46	18 52	1 37	19 11	13 10	22 47	22 38	2 44	17 12	6 9			
W23	20 16	22 24	0n52	21 58	0 52	5 14	1 53	23 9	1 26	19 23	0 17	20 56	0 20	8 38	0 46	18 52	1 37	19 11	13 9	22 47	22 39	2 41	17 12	6 9			
T 24	20 28	20 52	1 59	22 20	0 58	5 39	1 55	23 1	1 26	19 23	0 17	20 56	0 20	8 37	0 46	18 53	1 37	19 11	13 9	22 47	22 39	2 39	17 12	6 9			
F 25	20 40	18 21	2 58	22 42	1 4	6 3	1 57	22 54	1 25	19 23	0 17	20 57	0 20	8 37	0 46	18 53	1 37	19 10	13 9	22 47	22 39	2 36	17 12	6 8			
S 26	20 52	15 4	3 48	23 2	1 10	6 28	1 59	22 46	1 25	19 24	0 17	20 57	0 20	8 37	0 46	18 54	1 37	19 10	13 9	22 47	22 40	2 34	17 12	6 8			
S 27	21 3	11 14	4 27	23 21	1 16	6 52	2 0	22 37	1 25	19 24	0 17	20 57	0 20	8 36	0 46	18 54	1 37	19 10	13 8	22 47	22 40	2 31	17 12	6 8			
M28	21 14	7 0	4 54	23 39	1 21	7 17	2 2	22 29	1 24	19 25	0 17	20 58	0 20	8 36	0 46	18 54	1 37	19 9	13 8	22 47	22 40	2 29	17 12	6 8			
T 29	21 24	2 32	5 8	23 56	1 27	7 41	2 3	22 20	1 24	19 25	0 18	20 58	0 20	8 36	0 46	18 55	1 37	19 9	13 8	22 48	22 41	2 26	17 12	6 8			
W30	21s34	2s3	5n10	24s11	1s32	8s6	2n4	22s11	1s24	19n26	0n18	20n59	0s19	8n35	0n46	18s55	1n37	19s9	13s7	22n48	22n41	2n24	17s12	6n7			

ASTRODIENST EPHEMERIS for the year 2298
geocentric

DECEMBER 2298

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 39 58	8♌47'43	29♊26	17♋31	27♌11	27♍18	4°R19	23°R47	9♎49	1♏56	11♐59	12°R33	13♑45	5♒52	4♓29	T 1
F 2	4 43 54	9°48'26	11♋36	19° 4	28°22	28° 4	4♏17	23♐44	9°50	1°58	11°59	12♑26	13°42	5°59	4°35	F 2
S 3	4 47 51	10°49'11	23°57	20°36	29°33	28°51	4°15	23°41	9°51	2° 1	11°59	12°20	13°39	6° 6	4°41	S 3
S 4	4 51 47	11°49'57	6♌30	22° 8	0♍44	29°37	4°12	23°38	9°52	2° 3	12° 0	12°16	13°36	6°12	4°48	S 4
M 5	4 55 44	12°50'45	19°16	23°41	1°55	0♎23	4°10	23°35	9°52	2° 5	12° 0	12°12	13°32	6°19	4°54	M 5
T 6	4 59 40	13°51'34	2♓15	25°13	3° 6	1° 9	4° 7	23°32	9°53	2° 7	12° 0	12°10	13°29	6°26	5° 0	T 6
W 7	5 3 37	14°52'23	15°26	26°45	4°18	1°56	4° 4	23°29	9°53	2°10	12° 0	12°D10	13°26	6°33	5° 7	W 7
T 8	5 7 33	15°53'14	28°48	28°16	5°29	2°42	4° 0	23°26	9°54	2°12	12° 1	12°11	13°23	6°39	5°13	T 8
F 9	5 11 30	16°54'06	12♎23	29°48	6°41	3°29	3°57	23°22	9°54	2°14	12° 1	12°12	13°20	6°46	5°19	F 9
S 10	5 15 27	17°54'59	26° 8	1♓19	7°53	4°15	3°53	23°19	9°54	2°16	12° 1	12°14	13°16	6°53	5°26	S 10
S 11	5 19 23	18°55'52	10♈ 4	2°50	9° 4	5° 2	3°50	23°15	9°55	2°18	12° 2	12°15	13°13	7° 0	5°32	S 11
M12	5 23 20	19°56'46	24°11	4°21	10°16	5°48	3°46	23°11	9°55	2°21	12° 2	12°R15	13°10	7° 6	5°39	M12
T 13	5 27 16	20°57'40	8♏25	5°51	11°28	6°35	3°42	23° 8	9°55	2°23	12° 3	12°14	13° 7	7°13	5°45	T 13
W14	5 31 13	21°58'36	22°46	7°21	12°40	7°21	3°37	23° 4	9°55	2°25	12° 3	12°12	13° 4	7°20	5°52	W14
T 15	5 35 9	22°59'31	7♋ 9	8°51	13°52	8° 8	3°33	23° 0	9°R55	2°27	12° 4	12°10	13° 1	7°26	5°58	T 15
F 16	5 39 6	24° 0'28	21°30	10°20	15° 5	8°55	3°28	22°56	9°55	2°29	12° 4	12° 7	12°57	7°33	6° 4	F 16
S 17	5 43 2	25° 1'26	5♐44	11°48	16°17	9°41	3°23	22°52	9°55	2°31	12° 5	12° 5	12°54	7°40	6°11	S 17
S 18	5 46 59	26° 2'24	19°46	13°15	17°30	10°28	3°18	22°48	9°55	2°33	12° 5	12° 3	12°51	7°47	6°18	S 18
M19	5 50 56	27° 3'23	3♐32	14°42	18°42	11°15	3°13	22°44	9°55	2°35	12° 6	12° 2	12°48	7°53	6°24	M19
T 20	5 54 52	28° 4'22	17° 0	16° 7	19°55	12° 1	3° 8	22°40	9°55	2°38	12° 6	12°D 2	12°45	8° 0	6°31	T 20
W21	5 58 49	29° 5'23	0♏ 7	17°31	21° 7	12°48	3° 2	22°35	9°54	2°40	12° 7	12° 3	12°42	8° 7	6°37	W21
T 22	6 2 45	0♓ 6'24	12°54	18°53	22°20	13°35	2°56	22°31	9°54	2°42	12° 8	12° 4	12°38	8°13	6°44	T 22
F 23	6 6 42	1° 7'27	25°22	20°13	23°33	14°22	2°51	22°27	9°54	2°44	12° 8	12° 5	12°35	8°20	6°50	F 23
S 24	6 10 38	2° 8'30	7♎36	21°31	24°46	15° 9	2°45	22°22	9°53	2°46	12° 9	12° 6	12°32	8°27	6°57	S 24
S 25	6 14 35	3° 9'33	19°37	22°46	25°59	15°55	2°39	22°18	9°53	2°48	12°10	12° 6	12°29	8°34	7° 3	S 25
M26	6 18 31	4°10'38	1♊32	23°58	27°12	16°42	2°32	22°13	9°52	2°50	12°10	12°R 7	12°26	8°40	7°10	M26
T 27	6 22 28	5°11'43	13°24	25° 6	28°25	17°29	2°26	22° 9	9°51	2°52	12°11	12° 7	12°22	8°47	7°17	T 27
W28	6 26 25	6°12'49	25°19	26°10	29°38	18°16	2°19	22° 4	9°51	2°54	12°12	12° 6	12°19	8°54	7°23	W28
T 29	6 30 21	7°13'56	7♋21	27° 9	0♌51	19° 3	2°13	21°59	9°50	2°56	12°13	12° 6	12°16	9° 1	7°30	T 29
F 30	6 34 18	8°15'04	19°33	28° 3	2° 4	19°50	2° 6	21°55	9°49	2°58	12°14	12° 5	12°13	9° 7	7°36	F 30
S 31	6 38 14	9♓16'12	2♌ 0	28♓50	3♌18	20♎37	1♏59	21♑50	9♎48	3♏ 0	12♐15	12♑ 5	12♒10	9♒14	7♓43	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	21s44	6s37	4n58	24s25	1s37	8s30	2n 5	22s 2	1s23	19n26	0n18	21n 0	0s19	8n35	0n46	18s56	1n37	19s 9	13s 7	22n49	22n41	2n21	17s12	6n 7
F 2	21 53	10 58	4 32	24 38	1 42	8 54	2 6	21 52	1 23	19 27	0 18	21 0	0 19	8 35	0 46	18 56	1 37	19 8	13 7	22 49	22 42	2 19	17 12	6 7
S 3	22 2	14 58	3 53	24 50	1 46	9 18	2 7	21 42	1 23	19 28	0 18	21 1	0 19	8 35	0 46	18 57	1 37	19 8	13 7	22 50	22 42	2 16	17 12	6 7
S 4	22 10	18 21	3 3	25 0	1 51	9 42	2 8	21 32	1 22	19 28	0 18	21 1	0 19	8 34	0 46	18 57	1 37	19 8	13 6	22 50	22 42	2 14	17 12	6 7
M 5	22 18	20 56	2 2	25 10	1 55	10 6	2 9	21 22	1 22	19 29	0 19	21 2	0 19	8 34	0 46	18 58	1 37	19 7	13 6	22 50	22 43	2 11	17 12	6 7
T 6	22 26	22 29	0 54	25 17	1 59	10 30	2 9	21 12	1 22	19 30	0 19	21 2	0 19	8 34	0 46	18 58	1 37	19 7	13 6	22 51	22 43	2 9	17 12	6 7
W 7	22 33	22 48	0s18	25 24	2 2	10 54	2 10	21 1	1 21	19 31	0 19	21 3	0 19	8 34	0 46	18 58	1 37	19 6	13 5	22 51	22 43	2 6	17 12	6 7
T 8	22 39	21 50	1 30	25 29	2 5	11 17	2 10	20 50	1 21	19 32	0 19	21 4	0 19	8 34	0 46	18 59	1 37	19 6	13 5	22 51	22 44	2 3	17 12	6 6
F 9	22 45	19 36	2 38	25 32	2 8	11 40	2 10	20 39	1 20	19 33	0 19	21 4	0 19	8 34	0 46	18 59	1 37	19 6	13 5	22 50	22 44	2 1	17 11	6 6
S 10	22 51	16 13	3 39	25 35	2 11	12 3	2 10	20 27	1 20	19 34	0 19	21 5	0 19	8 34	0 46	19 0	1 37	19 5	13 5	22 50	22 44	1 58	17 11	6 6
S 11	22 56	11 54	4 27	25 35	2 13	12 26	2 11	20 16	1 20	19 35	0 20	21 6	0 19	8 33	0 47	19 0	1 37	19 5	13 4	22 50	22 45	1 56	17 11	6 6
M12	23 1	6 53	4 59	25 35	2 15	12 49	2 10	20 4	1 19	19 36	0 20	21 6	0 18	8 33	0 47	19 0	1 37	19 4	13 4	22 50	22 45	1 53	17 11	6 6
T 13	23 6	1 29	5 14	25 33	2 17	13 11	2 10	19 52	1 19	19 37	0 20	21 7	0 18	8 33	0 47	19 1	1 37	19 4	13 4	22 50	22 45	1 51	17 11	6 6
W14	23 9	4n 3	5 10	25 29	2 18	13 33	2 10	19 40	1 18	19 38	0 20	21 8	0 18	8 33	0 47	19 1	1 37	19 4	13 3	22 50	22 46	1 48	17 10	6 6
T 15	23 13	9 22	4 46	25 24	2 18	13 55	2 10	19 27	1 18	19 40	0 20	21 9	0 18	8 33	0 47	19 2	1 37	19 3	13 3	22 51	22 46	1 46	17 10	6 6
F 16	23 16	14 11	4 4	25 18	2 19	14 16	2 9	19 15	1 17	19 41	0 21	21 9	0 18	8 34	0 47	19 2	1 37	19 3	13 3	22 51	22 46	1 43	17 10	6 6
S 17	23 18	18 9	3 7	25 10	2 18	14 37	2 9	19 2	1 17	19 42	0 21	21 10	0 18	8 34	0 47	19 2	1 37	19 2	13 3	22 51	22 46	1 40	17 10	6 6
S 18	23 20	21 1	2 0	25 1	2 17	14 58	2 8	18 49	1 16	19 43	0 21	21 11	0 18	8 34	0 47	19 3	1 37	19 2	13 2	22 51	22 47	1 38	17 9	6 6
M19	23 22	22 34	0 47	24 51	2 16	15 19	2 7	18 35	1 16	19 45	0 21	21 12	0 18	8 34	0 47	19 3	1 37	19 1	13 2	22 51	22 47	1 35	17 9	6 6
T 20	23 23	22 46	0n27	24 39	2 14	15 39	2 7	18 22	1 15	19 46	0 21	21 12	0 18	8 34	0 47	19 4	1 37	19 1	13 2	22 51	22 47	1 33	17 9	6 6
W21	23 24	21 42	1 38	24 25	2 11	15 59	2 6	18 8	1 15	19 48	0 21	21 13	0 18	8 34	0 47	19 4	1 37	19 0	13 2	22 51	22 48	1 30	17 9	6 6
T 22	23 24	19 31	2 43	24 11	2 8	16 19	2 5	17 55	1 14	19 49	0 22	21 14	0 18	8 34	0 47	19 4	1 37	19 0	13 1	22 51	22 48	1 28	17 8	6 6
F 23	23 24	16 27	3 38	23 55	2 4	16 38	2 4	17 41	1 14	19 51	0 22	21 15	0 18	8 34	0 47	19 5	1 37	18 59	13 1	22 51	22 48	1 25	17 8	6 6
S 24	23 23	12 45	4 21	23 38	1 59	16 57	2 3	17 26	1 14	19 52	0 22	21 16	0 17	8 35	0 47	19 5	1 37	18 59	13 1	22 51	22 49	1 22	17 8	6 6
S 25	23 22	8 35	4 53	23 20	1 53	17 15	2 1	17 12	1 13	19 54	0 22	21 16	0 17	8 35	0 47	19 5	1 37	18 58	13 0	22 51	22 49	1 20	17 7	6 6
M26	23 20	4 9	5 12	23 1	1 46	17 33	2 0	16 57	1 12	19 55	0 22	21 17	0 17	8 35	0 47	19 6	1 37	18 58	13 0	22 51	22 49	1 17	17 7	6 6
T 27	23 18	0s25	5 17	22 42	1 39	17 51	1 59	16 43	1 12	19 57	0 22	21 18	0 17	8 35	0 47	19 6	1 37	18 57	13 0	22 51	22 49	1 15	17 6	6 6
W28	23 15	4 59	5 9	22 21	1 30	18 8	1 57	16 28	1 11	19 59	0 23	21 19	0 17	8 36	0 47	19 7	1 37	18 57	13 0	22 51	22 50	1 12	17 6	6 6
T 29	23 12	9 25	4 47	22 0	1 20	18 25	1 56	16 13	1 11	20 0	0 23	21 20	0 17	8 36	0 47	19 7	1 37	18 56	12 59	22 51	22 50	1 10	17 6	6 6
F 30	23 9	13 33	4 12	21 39	1 9	18 41	1 54	15 57	1 10	20 2	0 23	21 21	0 17	8 36	0 47	19 7	1 38	18 56	12 59	22 51	22 50	1 7	17 5	6 6
S 31	23s 5	17s11	3n24	21s18	0s57	18s57	1n52	15s42	1s10	20n 4	0n23	21n21	0s17	8n37	0n47	19s 8	1n38	18s55	12s59	22n51	22n51	1n 4	17s 5	6n 6