



Astrodienst Ephemeris Tables for the year 2299

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 2299
geocentric

JANUARY 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 11	10 ³ 17'20	14 ⁷ 44	29 ³ 29	4 ⁷ 31	21 ² 24	1 ⁰ R52	21 ⁰ R45	9 ⁰ R48	3 ⁷ 1	12 ¹ 15	12 ⁰ R 4	12 ⁰ 7	9 ⁰ 21	7 ⁰ 49	S 1
M 2	6 46 7	11 ⁰ 18'29	27 ⁰ 46	0 ⁰ 1	5 ⁰ 44	22 ⁰ 11	1 ⁰ 45	21 ⁰ 40	9 ⁰ 47	3 ⁰ 3	12 ⁰ 16	12 ⁰ 4	12 ⁰ 3	9 ⁰ 27	7 ⁰ 56	M 2
T 3	6 50 4	12 ⁰ 19'39	11 ⁰ 5	0 ⁰ 23	6 ⁰ 58	22 ⁰ 58	1 ⁰ 38	21 ⁰ 35	9 ⁰ 46	3 ⁰ 5	12 ⁰ 17	12 ⁰ 4	12 ⁰ 0	9 ⁰ 34	8 ⁰ 3	T 3
W 4	6 54 0	13 ⁰ 20'49	24 ⁰ 42	0 ⁰ 35	8 ⁰ 11	23 ⁰ 45	1 ⁰ 31	21 ⁰ 30	9 ⁰ 45	3 ⁰ 7	12 ⁰ 18	12 ⁰ 4	11 ⁰ 57	9 ⁰ 41	8 ⁰ 9	W 4
T 5	6 57 57	14 ⁰ 21'58	8 ⁰ 33	0 ⁰ R37	9 ⁰ 25	24 ⁰ 32	1 ⁰ 23	21 ⁰ 26	9 ⁰ 43	3 ⁰ 9	12 ⁰ 19	12 ⁰ 4	11 ⁰ 54	9 ⁰ 48	8 ⁰ 16	T 5
F 6	7 1 54	15 ⁰ 23'08	22 ⁰ 35	0 ⁰ 27	10 ⁰ 38	25 ⁰ 19	1 ⁰ 16	21 ⁰ 21	9 ⁰ 42	3 ⁰ 11	12 ⁰ 20	12 ⁰ 4	11 ⁰ 51	9 ⁰ 54	8 ⁰ 22	F 6
S 7	7 5 50	16 ⁰ 24'18	6 ⁰ 45	0 ⁰ 5	11 ⁰ 52	26 ⁰ 6	1 ⁰ 8	21 ⁰ 16	9 ⁰ 41	3 ⁰ 12	12 ⁰ 21	12 ⁰ 3	11 ⁰ 48	10 ⁰ 1	8 ⁰ 29	S 7
S 8	7 9 47	17 ⁰ 25'27	20 ⁰ 59	29 ³ 32	13 ⁰ 6	26 ⁰ 53	1 ⁰ 0	21 ⁰ 11	9 ⁰ 40	3 ⁰ 14	12 ⁰ 22	12 ⁰ 3	11 ⁰ 44	10 ⁰ 8	8 ⁰ 35	S 8
M 9	7 13 43	18 ⁰ 26'36	5 ⁰ 14	28 ⁰ 47	14 ⁰ 19	27 ⁰ 40	0 ⁰ 53	21 ⁰ 6	9 ⁰ 39	3 ⁰ 16	12 ⁰ 23	12 ⁰ 3	11 ⁰ 41	10 ⁰ 15	8 ⁰ 42	M 9
T 10	7 17 40	19 ⁰ 27'45	19 ⁰ 26	27 ⁰ 51	15 ⁰ 33	28 ⁰ 27	0 ⁰ 45	21 ⁰ 1	9 ⁰ 37	3 ⁰ 18	12 ⁰ 24	12 ⁰ D 2	11 ⁰ 38	10 ⁰ 21	8 ⁰ 48	T 10
W11	7 21 36	20 ⁰ 28'53	3 ⁰ 35	26 ⁰ 46	16 ⁰ 47	29 ⁰ 14	0 ⁰ 37	20 ⁰ 56	9 ⁰ 36	3 ⁰ 19	12 ⁰ 25	12 ⁰ 3	11 ⁰ 35	10 ⁰ 28	8 ⁰ 55	W11
T 12	7 25 33	21 ⁰ 30'01	17 ⁰ 36	25 ⁰ 34	18 ⁰ 1	0 ⁰ 1	0 ⁰ 29	20 ⁰ 51	9 ⁰ 34	3 ⁰ 21	12 ⁰ 27	12 ⁰ 3	11 ⁰ 32	10 ⁰ 35	9 ⁰ 1	T 12
F 13	7 29 29	22 ⁰ 31'09	1 ⁰ 30	24 ⁰ 16	19 ⁰ 14	0 ⁰ 48	0 ⁰ 21	20 ⁰ 46	9 ⁰ 33	3 ⁰ 23	12 ⁰ 28	12 ⁰ 4	11 ⁰ 28	10 ⁰ 41	9 ⁰ 8	F 13
S 14	7 33 26	23 ⁰ 32'16	15 ⁰ 14	22 ⁰ 56	20 ⁰ 28	1 ⁰ 35	0 ⁰ 13	20 ⁰ 41	9 ⁰ 31	3 ⁰ 24	12 ⁰ 29	12 ⁰ 5	11 ⁰ 25	10 ⁰ 48	9 ⁰ 14	S 14
S 15	7 37 23	24 ⁰ 33'23	28 ⁰ 47	21 ⁰ 36	21 ⁰ 42	2 ⁰ 22	0 ⁰ 5	20 ⁰ 36	9 ⁰ 30	3 ⁰ 26	12 ⁰ 30	12 ⁰ 6	11 ⁰ 22	10 ⁰ 55	9 ⁰ 20	S 15
M16	7 41 19	25 ⁰ 34'29	12 ⁰ 8	20 ⁰ 18	22 ⁰ 56	3 ⁰ 9	29 ⁰ 57	20 ⁰ 31	9 ⁰ 28	3 ⁰ 27	12 ⁰ 31	12 ⁰ R 6	11 ⁰ 19	11 ⁰ 2	9 ⁰ 27	M16
T 17	7 45 16	26 ⁰ 35'35	25 ⁰ 15	19 ⁰ 5	24 ⁰ 10	3 ⁰ 56	29 ⁰ 49	20 ⁰ 26	9 ⁰ 26	3 ⁰ 29	12 ⁰ 32	12 ⁰ 6	11 ⁰ 16	11 ⁰ 8	9 ⁰ 33	T 17
W18	7 49 12	27 ⁰ 36'41	8 ⁰ 8	17 ⁰ 59	25 ⁰ 24	4 ⁰ 43	29 ⁰ 41	20 ⁰ 21	9 ⁰ 25	3 ⁰ 30	12 ⁰ 34	12 ⁰ 5	11 ⁰ 13	11 ⁰ 15	9 ⁰ 39	W18
T 19	7 53 9	28 ⁰ 37'47	20 ⁰ 47	17 ⁰ 1	26 ⁰ 38	5 ⁰ 30	29 ⁰ 33	20 ⁰ 17	9 ⁰ 23	3 ⁰ 32	12 ⁰ 35	12 ⁰ 2	11 ⁰ 9	11 ⁰ 22	9 ⁰ 46	T 19
F 20	7 57 5	29 ⁰ 38'52	3 ⁰ 11	16 ⁰ 11	27 ⁰ 52	6 ⁰ 17	29 ⁰ 25	20 ⁰ 12	9 ⁰ 21	3 ⁰ 33	12 ⁰ 36	12 ⁰ 0	11 ⁰ 6	11 ⁰ 28	9 ⁰ 52	F 20
S 21	8 1 2	0 ⁰ 39'57	15 ⁰ 23	15 ⁰ 31	29 ⁰ 6	7 ⁰ 4	29 ⁰ 17	20 ⁰ 7	9 ⁰ 19	3 ⁰ 35	12 ⁰ 37	11 ⁰ 57	11 ⁰ 3	11 ⁰ 35	9 ⁰ 58	S 21
S 22	8 4 59	1 ⁰ 41'01	27 ⁰ 25	15 ⁰ 1	0 ⁰ 20	7 ⁰ 51	29 ⁰ 9	20 ⁰ 2	9 ⁰ 18	3 ⁰ 36	12 ⁰ 39	11 ⁰ 54	11 ⁰ 0	11 ⁰ 42	10 ⁰ 5	S 22
M23	8 8 55	2 ⁰ 42'05	9 ⁰ 20	14 ⁰ 40	1 ⁰ 34	8 ⁰ 38	29 ⁰ 1	19 ⁰ 57	9 ⁰ 16	3 ⁰ 38	12 ⁰ 40	11 ⁰ 51	10 ⁰ 57	11 ⁰ 49	10 ⁰ 11	M23
T 24	8 12 52	3 ⁰ 43'09	21 ⁰ 13	14 ⁰ 29	2 ⁰ 48	9 ⁰ 25	28 ⁰ 53	19 ⁰ 53	9 ⁰ 14	3 ⁰ 39	12 ⁰ 41	11 ⁰ 50	10 ⁰ 54	11 ⁰ 55	10 ⁰ 17	T 24
W25	8 16 48	4 ⁰ 44'13	3 ⁰ 6	14 ⁰ D26	4 ⁰ 3	10 ⁰ 12	28 ⁰ 45	19 ⁰ 48	9 ⁰ 12	3 ⁰ 40	12 ⁰ 43	11 ⁰ D49	10 ⁰ 50	12 ⁰ 2	10 ⁰ 23	W25
T 26	8 20 45	5 ⁰ 45'16	15 ⁰ 6	14 ⁰ 31	5 ⁰ 17	10 ⁰ 59	28 ⁰ 37	19 ⁰ 43	9 ⁰ 10	3 ⁰ 41	12 ⁰ 44	11 ⁰ 49	10 ⁰ 47	12 ⁰ 9	10 ⁰ 29	T 26
F 27	8 24 41	6 ⁰ 46'19	27 ⁰ 17	14 ⁰ 44	6 ⁰ 31	11 ⁰ 46	28 ⁰ 29	19 ⁰ 39	9 ⁰ 8	3 ⁰ 43	12 ⁰ 45	11 ⁰ 50	10 ⁰ 44	12 ⁰ 16	10 ⁰ 35	F 27
S 28	8 28 38	7 ⁰ 47'22	9 ⁰ 43	15 ⁰ 3	7 ⁰ 45	12 ⁰ 33	28 ⁰ 21	19 ⁰ 34	9 ⁰ 5	3 ⁰ 44	12 ⁰ 47	11 ⁰ 52	10 ⁰ 41	12 ⁰ 22	10 ⁰ 41	S 28
S 29	8 32 34	8 ⁰ 48'24	22 ⁰ 29	15 ⁰ 30	9 ⁰ 0	13 ⁰ 20	28 ⁰ 13	19 ⁰ 29	9 ⁰ 3	3 ⁰ 45	12 ⁰ 48	11 ⁰ 54	10 ⁰ 38	12 ⁰ 29	10 ⁰ 47	S 29
M30	8 36 31	9 ⁰ 49'26	5 ⁰ 38	16 ⁰ 2	10 ⁰ 14	14 ⁰ 7	28 ⁰ 5	19 ⁰ 25	9 ⁰ 1	3 ⁰ 46	12 ⁰ 50	11 ⁰ R55	10 ⁰ 34	12 ⁰ 36	10 ⁰ 53	M30
T 31	8 40 28	10 ⁰ 50'27	19 ⁰ 30	16 ⁰ 39	11 ⁰ 28	14 ⁰ 54	27 ⁰ 58	19 ⁰ 20	8 ⁰ 59	3 ⁰ 48	12 ⁰ 51	11 ⁰ 55	10 ⁰ 31	12 ⁰ 42	10 ⁰ 59	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23s 0	20s 7	2n26	20s57	0s44	19s12	1n51	15s26	1s 9	20n 5	0n23	21n22	0s17	8n37	0n47	19s 8
M 2	22 55	22 4	1 19	20 36	0 30	19 27	1 49	15 11	1 9	20 7	0 23	21 23	0 17	8 37	0 47	19 8
T 3	22 50	22 51	0 5	20 16	0 15	19 41	1 47	14 55	1 8	20 9	0 24	21 24	0 16	8 38	0 48	19 9
W 4	22 44	22 17	1s 9	19 57	0n 2	19 55	1 45	14 39	1 8	20 11	0 24	21 25	0 16	8 38	0 48	19 9
T 5	22 38	20 22	2 22	19 40	0 20	20 8	1 43	14 23	1 7	20 12	0 24	21 26	0 16	8 39	0 48	19 9
F 6	22 31	17 13	3 26	19 24	0 38	20 21	1 41	14 6	1 7	20 14	0 24	21 27	0 16	8 39	0 48	19 10
S 7	22 24	13 1	4 19	19 10	0 57	20 33	1 39	13 50	1 6	20 16	0 24	21 28	0 16	8 40	0 48	19 10
S 8	22 16	8 6	4 56	18 58	1 16	20 44	1 36	13 33	1 5	20 18	0 24	21 28	0 16	8 40	0 48	19 10
M 9	22 8	2 45	5 15	18 49	1 35	20 55	1 34	13 17	1 5	20 20	0 24	21 29	0 16	8 41	0 48	19 10
T 10	21 59	2n45	5 14	18 41	1 54	21 6	1 32	13 0	1 4	20 21	0 25	21 30	0 16	8 41	0 48	19 11
W11	21 50	8 4	4 55	18 36	2 12	21 15	1 30	12 43	1 4	20 23	0 25	21 31	0 16	8 42	0 48	19 11
T 12	21 41	12 55	4 18	18 33	2 29	21 25	1 27	12 26	1 3	20 25	0 25	21 32	0 15	8 42	0 48	19 11
F 13	21 31	17 3	3 26	18 32	2 44	21 33	1 25	12 9	1 2	20 27	0 25	21 33	0 15	8 43	0 48	19 12
S 14	21 21	20 13	2 23	18 33	2 57	21 41	1 22	11 51	1 2	20 29	0 25	21 34	0 15	8 44	0 48	19 12
S 15	21 11	22 11	1 13	18 35	3 7	21 49	1 20	11 34	1 1	20 31	0 25	21 34	0 15	8 44	0 48	19 12
M16	21 0	22 51	0n 0	18 39	3 15	21 56	1 17	11 16	1 1	20 32	0 26	21 35	0 15	8 45	0 48	19 12
T 17	20 48	22 14	1 12	18 44	3 20	22 2	1 15	10 59	1 0	20 34	0 26	21 36	0 15	8 46	0 48	19 13
W18	20 36	20 26	2 19	18 50	3 23	22 7	1 12	10 41	0 59	20 36	0 26	21 37	0 15	8 46	0 48	19 13
T 19	20 24	17 40	3 18	18 57	3 24	22 12	1 9	10 23	0 59	20 38	0 26	21 38	0 15	8 47	0 48	19 13
F 20	20 11	14 8	4 6	19 5	3 22	22 16	1 7	10 5	0 58	20 40	0 26	21 39	0 15	8 48	0 48	19 13
S 21	19 58	10 5	4 42	19 13	3 19	22 20	1 4	9 47	0 57	20 42	0 26	21 39	0 14	8 48	0 48	19 13
S 22	19 45	5 41	5 5	19 21	3 14	22 23	1 1	9 29	0 57	20 43	0 26	21 40	0 14	8 49	0 48	19 14
M23	19 31	1 7	5 14	19 30	3 7	22 25	0 58	9 11	0 56	20 45	0 26	21 41	0 14	8 50	0 48	19 14
T 24	19 17	3s27	5 11	19 38	3 0	22 27	0 56	8 53	0 55	20 47	0 27	21 42	0 14	8 51	0 48	19 14
W25	19 3	7 56	4 53	19 47	2 51	22 27	0 53	8 35	0 55	20 49	0 27	21 43	0 14	8 51	0 48	19

ASTRODIENST EPHEMERIS for the year 2299

geocentric

FEBRUARY 2299

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 24	11°51'27	3° 6	17°21	12°42	15°41	27°R50	19°R16	8°R57	3°49	12°52	11°R53	10°28	12°49	11°5	W 1
T 2	8 48 21	12°52'27	17°23	18° 7	13°57	16°27	27°42	19°12	8°55	3°50	12°54	11°50	10°25	12°56	11°11	T 2
F 3	8 52 17	13°53'25	1°55	18°58	15°11	17°14	27°35	19° 7	8°52	3°51	12°55	11°46	10°22	13° 3	11°17	F 3
S 4	8 56 14	14°54'23	16°35	19°52	16°25	18° 1	27°28	19° 3	8°50	3°52	12°57	11°41	10°19	13° 9	11°23	S 4
S 5	9 0 10	15°55'19	1°17	20°49	17°40	18°48	27°20	18°59	8°48	3°53	12°58	11°36	10°15	13°16	11°28	S 5
M 6	9 4 7	16°56'14	15°53	21°49	18°54	19°35	27°13	18°55	8°45	3°54	13° 0	11°31	10°12	13°23	11°34	M 6
T 7	9 8 3	17°57'08	0°18	22°52	20° 8	20°21	27° 6	18°51	8°43	3°55	13° 1	11°28	10° 9	13°30	11°40	T 7
W 8	9 12 0	18°58'00	14°28	23°57	21°23	21° 8	26°59	18°47	8°40	3°56	13° 3	11°D27	10° 6	13°36	11°45	W 8
T 9	9 15 57	19°58'51	28°23	25° 4	22°37	21°55	26°52	18°43	8°38	3°56	13° 4	11°27	10° 3	13°43	11°51	T 9
F 10	9 19 53	20°59'41	12°11	26°14	23°52	22°42	26°45	18°39	8°36	3°57	13° 6	11°28	10° 0	13°50	11°56	F 10
S 11	9 23 50	22° 0'29	25°24	27°25	25° 6	23°28	26°38	18°36	8°33	3°58	13° 7	11°30	9°56	13°56	12° 2	S 11
S 12	9 27 46	23° 1'16	8°33	28°39	26°20	24°15	26°32	18°32	8°31	3°59	13° 9	11°R31	9°53	14° 3	12° 7	S 12
M13	9 31 43	24° 2'01	21°29	29°54	27°35	25° 2	26°25	18°29	8°28	4° 0	13°10	11°30	9°50	14°10	12°13	M13
T 14	9 35 39	25° 2'45	4°14	1°10	28°49	25°48	26°19	18°25	8°26	4° 0	13°12	11°28	9°47	14°17	12°18	T 14
W15	9 39 36	26° 3'28	16°48	2°28	0° 4	26°35	26°13	18°22	8°23	4° 1	13°14	11°23	9°44	14°23	12°23	W15
T 16	9 43 32	27° 4'09	29°12	3°47	1°18	27°21	26° 7	18°18	8°20	4° 2	13°15	11°16	9°40	14°30	12°29	T 16
F 17	9 47 29	28° 4'49	11°27	5° 8	2°32	28° 8	26° 1	18°15	8°18	4° 2	13°17	11° 8	9°37	14°37	12°34	F 17
S 18	9 51 26	29° 5'27	23°34	6°30	3°47	28°54	25°55	18°12	8°15	4° 3	13°18	10°58	9°34	14°43	12°39	S 18
S 19	9 55 22	0° 6'04	5°33	7°53	5° 1	29°41	25°50	18° 9	8°13	4° 3	13°20	10°49	9°31	14°50	12°44	S 19
M20	9 59 19	1° 6'40	17°27	9°17	6°16	0°27	25°44	18° 6	8°10	4° 4	13°22	10°40	9°28	14°57	12°49	M20
T 21	10 3 15	2° 7'15	29°18	10°43	7°30	1°13	25°39	18° 3	8° 8	4° 4	13°23	10°33	9°25	15° 4	12°54	T 21
W22	10 7 12	3° 7'48	11°10	12° 9	8°45	2° 0	25°34	18° 0	8° 5	4° 5	13°25	10°28	9°21	15°10	12°59	W22
T 23	10 11 8	4° 8'21	23° 8	13°37	9°59	2°46	25°29	17°58	8° 2	4° 5	13°26	10°25	9°18	15°17	13° 4	T 23
F 24	10 15 5	5° 8'52	5°15	15° 5	11°14	3°32	25°24	17°55	8° 0	4° 5	13°28	10°D24	9°15	15°24	13° 8	F 24
S 25	10 19 1	6° 9'22	17°36	16°35	12°28	4°19	25°20	17°53	7°57	4° 6	13°30	10°25	9°12	15°31	13°13	S 25
S 26	10 22 58	7° 9'50	0°18	18° 5	13°43	5° 5	25°15	17°50	7°54	4° 6	13°31	10°26	9° 9	15°37	13°18	S 26
M27	10 26 54	8°10'17	13°24	19°37	14°57	5°51	25°11	17°48	7°52	4° 6	13°33	10°R26	9° 6	15°44	13°22	M27
T 28	10 30 51	9°10'43	26°58	21° 9	16°12	6°37	25° 7	17°46	7°49	4° 7	13°35	10°25	9° 2	15°51	13°27	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s12	21s16	1s53	20s37	1n40	22s15	0n33	6s25	0s50	21n 1	0n27	21n48	0s13	8n57	0n48	19s16	1n39	18s35	12s53	22n52	22n59	0s19	16s44	6n13			
T 2	16 55	18 29	3 2	20 42	1 29	22 11	0 30	6 6	0 50	21 2	0 28	21 49	0 13	8 58	0 49	19 16	1 39	18 34	12 53	22 52	23 0	0 22	16 43	6 14			
F 3	16 38	14 30	4 0	20 46	1 19	22 5	0 27	5 47	0 49	21 4	0 28	21 49	0 13	8 59	0 49	19 16	1 39	18 33	12 53	22 53	23 0	0 24	16 43	6 14			
S 4	16 20	9 37	4 42	20 48	1 8	22 0	0 24	5 28	0 48	21 5	0 28	21 50	0 13	9 0	0 49	19 16	1 39	18 33	12 53	22 53	23 0	0 27	16 42	6 14			
S 5	16 2	4 10	5 6	20 50	0 58	21 53	0 21	5 9	0 48	21 7	0 28	21 51	0 13	9 1	0 49	19 16	1 39	18 32	12 52	22 54	23 0	0 30	16 41	6 15			
M 6	15 44	1n28	5 10	20 51	0 48	21 46	0 18	4 50	0 47	21 8	0 28	21 52	0 13	9 2	0 49	19 16	1 39	18 31	12 52	22 54	23 1	0 32	16 40	6 15			
T 7	15 26	6 57	4 55	20 51	0 38	21 38	0 15	4 31	0 46	21 10	0 28	21 52	0 12	9 2	0 49	19 16	1 39	18 31	12 52	22 54	23 1	0 35	16 39	6 16			
W 8	15 7	12 0	4 21	20 49	0 28	21 30	0 13	4 12	0 46	21 11	0 28	21 53	0 12	9 3	0 49	19 17	1 39	18 30	12 52	22 54	23 1	0 37	16 38	6 16			
T 9	14 48	16 18	3 33	20 47	0 18	21 21	0 10	3 53	0 45	21 13	0 28	21 54	0 12	9 4	0 49	19 17	1 39	18 29	12 52	22 54	23 1	0 40	16 37	6 16			
F 10	14 29	19 40	2 33	20 43	0 9	21 11	0 7	3 34	0 44	21 14	0 28	21 54	0 12	9 5	0 49	19 17	1 39	18 29	12 52	22 54	23 1	0 43	16 37	6 17			
S 11	14 9	21 53	1 26	20 39	0s 0	21 1	0 4	3 15	0 43	21 15	0 28	21 55	0 12	9 6	0 49	19 17	1 39	18 28	12 52	22 54	23 2	0 45	16 36	6 17			
S 12	13 49	22 51	0 16	20 33	0 9	20 50	0 1	2 56	0 43	21 17	0 28	21 55	0 12	9 7	0 49	19 17	1 39	18 27	12 52	22 54	23 2	0 48	16 35	6 18			
M13	13 29	22 34	0n54	20 26	0 18	20 38	0s 2	2 37	0 42	21 18	0 29	21 56	0 12	9 8	0 49	19 17	1 39	18 27	12 52	22 54	23 2	0 51	16 34	6 18			
T 14	13 9	21 7	2 0	20 17	0 26	20 26	0 4	2 18	0 41	21 19	0 29	21 57	0 12	9 9	0 49	19 17	1 39	18 26	12 52	22 54	23 2	0 53	16 33	6 18			
W15	12 49	18 37	2 59	20 8	0 34	20 13	0 7	1 59	0 41	21 21	0 29	21 57	0 12	9 10	0 49	19 17	1 40	18 25	12 52	22 55	23 3	0 56	16 32	6 19			
T 16	12 28	15 18	3 49	19 57	0 42	20 0	0 10	1 40	0 40	21 22	0 29	21 58	0 11	9 11	0 49	19 17	1 40	18 25	12 52	22 55	23 3	0 59	16 31	6 19			
F 17	12 7	11 22	4 27	19 45	0 49	19 46	0 13	1 21	0 39	21 23	0 29	21 58	0 11	9 12	0 49	19 17	1 40	18 24	12 51	22 56	23 3	1 1	16 30	6 20			
S 18	11 46	7 2	4 53	19 32	0 57	19 31	0 15	1 2	0 39	21 24	0 29	21 59	0 11	9 13	0 49	19 17	1 40	18 23	12 51	22 57	23 3	1 4	16 29	6 20			
S 19	11 25	2 28	5 5	19 17	1 3	19 16	0 18	0 42	0 38	21 25	0 29	21 59	0 11	9 14	0 49	19 17	1 40	18 23	12 51	22 58	23 4	1 6	16 29	6 21			
M20	11 4	2s 9	5 4	19 2	1 10	19 1	0 21	0 23	0 37	21 26	0 29	22 0	0 11	9 15	0 49	19 17	1 40	18 22	12 51	22 58	23 4	1 9	16 28	6 21			
T 21	10 42	6 41	4 50	18 45	1 16	18 44	0 23	0 4	0 36	21 27	0 29	22 0	0 11	9 16	0 49	19 17	1 40	18 21	12 51	22 59	23 4	1 12	16 27	6 22			
W22	10 20	10 58	4 24	18 27	1 22	18 28	0 26	0n15	0 36	21 28	0 29	22 1	0 11	9 17	0 49	19 17	1 40	18 21	12 51	22 59	23 4	1 14	16 26	6 22			
T 23	9 59	14 53	3 46	18 7	1 28	18 10	0 28	0 34	0 35	21 29	0 29	22 1	0 11	9 18	0 49	19 17	1 40	18 20	12 51	23 0	23 4	1 17	16 25	6 23			
F 24	9 37	18 14	2 57	17 46	1 33	17 53	0 31	0 53	0 34	21 30	0 29	22 2	0 10	9 19	0 49	19 18	1 40	18 19	12 51	23 0	23 5	1 20	16 24	6 23			
S 25	9 14	20 51	1 59	17 24	1 38	17 34	0 33	1 12	0 34	21 31	0 29	22 2	0 10	9 20	0 49	19 18	1 40	18 19	12 51	23 0	23 5	1 22	16 23	6 24			
S 26	8 52	22 30	0 54	17 1	1 43	17 15	0 36	1 31	0 33	21 32	0 29	22 3	0 10	9 21	0 49	19 18	1 40	18 18	12 51	22 59	23 5	1 25	16 22	6 24			
M27	8 30	22 59	0s16	16 37	1 47	16 56	0 38	1 50	0 32	21 33	0 29	22 3	0 10	9 22	0 49	19 18	1 40	18 17	12 51	22 59	23 5	1 28	16 21	6 25			
T 28	8s 7	22s 9	1s27	16s11	1s51	16s36	0s41	2n 8	0s32	21n34	0n29	22n 3	0s10	9n23	0n49	19s18	1n40	18s17	12s51	23n 0	23n 6	1s30	16s20	6n25			

Julian Day Number = 2560783.5, Delta T = 295.40 sec

Ecliptic obliquity = 23°24'00, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°55'15, Lahiri = 28°02'15

ASTRODIENST EPHEMERIS for the year 2299

geocentric

MARCH 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 34 48	10°11'08	11°00	22°43	17°26	7°23	25°R 3	17°R44	7°R46	4° 7	13°36	10°R21	8°59	15°57	13°31	W 1
T 2	10 38 44	11°11'31	25°29	24°18	18°41	8° 9	24°59	17°42	7°44	4° 7	13°38	10°15	8°56	16° 4	13°36	T 2
F 3	10 42 41	12°11'52	10°20	25°53	19°55	8°55	24°56	17°40	7°41	4° 7	13°39	10° 6	8°53	16°11	13°40	F 3
S 4	10 46 37	13°12'12	25°24	27°30	21°10	9°41	24°53	17°38	7°39	4° 7	13°41	9°57	8°50	16°18	13°44	S 4
S 5	10 50 34	14°12'29	10°32	29° 7	22°24	10°27	24°49	17°37	7°36	4° 7	13°43	9°47	8°46	16°24	13°48	S 5
M 6	10 54 30	15°12'45	25°33	0°46	23°39	11°13	24°46	17°35	7°33	4°R 7	13°44	9°38	8°43	16°31	13°52	M 6
T 7	10 58 27	16°12'59	10°18	2°25	24°53	11°59	24°44	17°34	7°31	4° 7	13°46	9°31	8°40	16°38	13°56	T 7
W 8	11 2 23	17°13'11	24°43	4° 6	26° 8	12°45	24°41	17°32	7°28	4° 7	13°48	9°26	8°37	16°44	14° 0	W 8
T 9	11 6 20	18°13'21	8°43	5°48	27°22	13°31	24°39	17°31	7°26	4° 7	13°49	9°24	8°34	16°51	14° 4	T 9
F 10	11 10 17	19°13'29	22°20	7°31	28°36	14°17	24°37	17°30	7°23	4° 7	13°51	9°D24	8°31	16°58	14° 8	F 10
S 11	11 14 13	20°13'35	5°35	9°14	29°51	15° 3	24°35	17°29	7°21	4° 7	13°53	9°R24	8°27	17° 5	14°12	S 11
S 12	11 18 10	21°13'38	18°31	10°59	1° 5	15°48	24°33	17°28	7°18	4° 7	13°54	9°24	8°24	17°11	14°16	S 12
M13	11 22 6	22°13'40	1°12	12°45	2°20	16°34	24°31	17°27	7°15	4° 6	13°56	9°22	8°21	17°18	14°19	M13
T 14	11 26 3	23°13'39	13°40	14°32	3°34	17°20	24°30	17°27	7°13	4° 6	13°57	9°17	8°18	17°25	14°23	T 14
W15	11 29 59	24°13'36	25°58	16°21	4°49	18° 5	24°29	17°26	7°10	4° 6	13°59	9°10	8°15	17°32	14°26	W15
T 16	11 33 56	25°13'32	8°9	18°10	6° 3	18°51	24°28	17°26	7° 8	4° 6	14° 1	9° 0	8°11	17°38	14°30	T 16
F 17	11 37 52	26°13'25	20°13	20° 1	7°18	19°36	24°27	17°25	7° 6	4° 5	14° 2	8°47	8° 8	17°45	14°33	F 17
S 18	11 41 49	27°13'16	2°13	21°52	8°32	20°22	24°26	17°25	7° 3	4° 5	14° 4	8°33	8° 5	17°52	14°36	S 18
S 19	11 45 46	28°13'05	14° 8	23°45	9°46	21° 7	24°26	17°D25	7° 1	4° 4	14° 6	8°18	8° 2	17°58	14°39	S 19
M20	11 49 42	29°12'53	26° 0	25°39	11° 1	21°52	24°25	17°25	6°58	4° 4	14° 7	8° 5	7°59	18° 5	14°42	M20
T 21	11 53 39	0°12'38	7°15	12°15	22°38	24°D25	17°25	6°56	6°56	4° 4	14° 9	7°54	7°56	18°12	14°45	T 21
W22	11 57 35	1°12'22	19°44	29°30	13°30	23°23	24°25	17°26	6°54	4° 3	14°10	7°45	7°52	18°19	14°48	W22
T 23	12 1 32	2°12'04	1°42	1°27	14°44	24° 8	24°26	17°26	6°51	4° 3	14°12	7°39	7°49	18°25	14°51	T 23
F 24	12 5 28	3°11'45	13°48	3°25	15°58	24°53	24°26	17°26	6°49	4° 2	14°13	7°36	7°46	18°32	14°54	F 24
S 25	12 9 25	4°11'23	26° 7	5°24	17°13	25°38	24°27	17°27	6°47	4° 1	14°15	7°35	7°43	18°39	14°56	S 25
S 26	12 13 21	5°11'00	8°34	7°24	18°27	26°23	24°28	17°28	6°45	4° 1	14°17	7°35	7°40	18°45	14°59	S 26
M27	12 17 18	6°10'36	21°43	9°25	19°42	27° 9	24°29	17°28	6°42	4° 0	14°18	7°35	7°37	18°52	15° 1	M27
T 28	12 21 15	7°10'09	5°10	11°26	20°56	27°54	24°30	17°29	6°40	3°59	14°20	7°33	7°33	18°59	15° 4	T 28
W29	12 25 11	8° 9'41	19° 7	13°27	22°10	28°38	24°32	17°30	6°38	3°59	14°21	7°29	7°30	19° 6	15° 6	W29
T 30	12 29 8	9° 9'11	3°33	15°28	23°25	29°23	24°34	17°31	6°36	3°58	14°23	7°22	7°27	19°12	15° 8	T 30
F 31	12 33 4	10°9'39	18°25	17°30	24°39	0° 8	24°35	17°33	6°34	3°57	14°24	7°13	7°24	19°19	15°11	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s44	19s56	2s36	15s44	1s55	16s16	0s43	2n27	0s31	21n34	0n30	22n 4	0s10	9n24	0n49	19s17
T 2	7 21	16 24	3 36	15 16	1 58	15 55	0 45	2 46	0 30	21 35	0 30	22 4	0 10	9 25	0 49	19 17
F 3	6 58	11 45	4 24	14 46	2 1	15 34	0 47	3 5	0 29	21 36	0 30	22 5	0 10	9 26	0 49	19 17
S 4	6 35	6 19	4 53	14 16	2 4	15 12	0 50	3 24	0 29	21 36	0 30	22 5	0 9	9 27	0 49	19 17
S 5	6 12	0 29	5 3	13 44	2 6	14 50	0 52	3 42	0 28	21 37	0 30	22 5	0 9	9 28	0 49	19 17
M 6	5 49	5n20	4 52	13 11	2 8	14 28	0 54	4 1	0 27	21 37	0 30	22 6	0 9	9 29	0 49	19 17
T 7	5 26	10 45	4 21	12 36	2 9	14 5	0 56	4 19	0 27	21 38	0 30	22 6	0 9	9 30	0 49	19 17
W 8	5 2	15 27	3 34	12 1	2 10	13 42	0 58	4 38	0 26	21 39	0 30	22 6	0 9	9 30	0 49	19 17
T 9	4 39	19 10	2 35	11 24	2 11	13 18	1 0	4 56	0 25	21 39	0 30	22 6	0 9	9 31	0 49	19 17
F 10	4 15	21 41	1 29	10 46	2 11	12 54	1 2	5 15	0 24	21 39	0 30	22 7	0 9	9 32	0 49	19 17
S 11	3 52	22 57	0 20	10 6	2 11	12 30	1 3	5 33	0 24	21 40	0 30	22 7	0 9	9 33	0 49	19 17
S 12	3 28	22 55	0n48	9 26	2 10	12 5	1 5	5 51	0 23	21 40	0 30	22 7	0 9	9 34	0 49	19 17
M13	3 5	21 42	1 53	8 44	2 9	11 40	1 7	6 10	0 22	21 40	0 30	22 7	0 8	9 35	0 49	19 17
T 14	2 41	19 25	2 51	8 2	2 7	11 15	1 9	6 28	0 22	21 41	0 30	22 8	0 8	9 36	0 49	19 17
W15	2 17	16 17	3 40	7 18	2 5	10 49	1 10	6 46	0 21	21 41	0 30	22 8	0 8	9 37	0 49	19 17
T 16	1 54	12 29	4 18	6 33	2 2	10 23	1 12	7 4	0 20	21 41	0 30	22 8	0 8	9 38	0 49	19 17
F 17	1 30	8 14	4 44	5 46	1 59	9 57	1 13	7 21	0 19	21 41	0 30	22 8	0 8	9 39	0 49	19 16
S 18	1 6	3 41	4 58	4 59	1 55	9 30	1 14	7 39	0 19	21 42	0 30	22 8	0 8	9 40	0 49	19 16
S 19	0 42	0s59	4 58	4 11	1 51	9 4	1 16	7 57	0 18	21 42	0 30	22 8	0 8	9 41	0 49	19 16
M20	0 19	5 35	4 45	3 21	1 46	8 37	1 17	8 14	0 17	21 42	0 30	22 9	0 8	9 41	0 49	19 16
T 21	0n 5	10 0	4 20	2 31	1 41	8 10	1 18	8 32	0 17	21 42	0 30	22 9	0 8	9 42	0 49	19 16
W22	0 29	14 3	3 44	1 39	1 35	7 42	1 19	8 49	0 16	21 42	0 30	22 9	0 7	9 43	0 49	19 16
T 23	0 52	17 34	2 57	0 47	1 29	7 14	1 21	9 7	0 15	21 42	0 30	22 9	0 7	9 44	0 49	19 16
F 24	1 16	20 24	2 2	0n 6	1 22	6 47	1 22	9 24	0 15	21 42	0 30	22 9	0 7	9 45	0 49	19 15
S 25	1 40	22 20	1 0	1 0	1 15	6 19	1 23	9 41	0 14	21 41	0 30	22 9	0 7	9 46	0 49	19 15
S 26	2 3	23 13	0s 6	1 54	1 7	5 50	1 23	9 58	0 13	21 41	0 30	22 9	0 7	9 46	0 49	19 15
M27	2 27	22 52	1 14	2 45	0 59	5 22	1 24	10 15	0 12	21 41	0 30	22 9	0 7	9 47	0 49	19 15
T 28	2 50	21 13	2 20	3 50	0 50	4 53	1 25	10 31	0 12	21 41	0 30	22 9	0 7	9 48	0 49	19 15
W29	3 14	18 14	3 20	4 41	0 40	4 25	1 26	10 48	0 11	21 41	0 30	22 9	0 7	9 49	0 49	19 15
T 30	3 37	14 4	4 10	5 37	0 30	3 56	1 26	11 5	0 10	21 40	0 30	22 9	0 6	9 50	0 48	19 14
F 31	4n 1	8s56	4s44	6n33	0s20	3s27	1s27	11n21	0s10	21n40	0n30	22n 9	0s 6	9n50	0n48	19s14

Julian Day Number = 2560811.5, Delta T = 295.53 sec

Ecliptic obliquity = 23°24'00, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 28°55'19, Lahiri = 28°02'19

ASTRODIENST EPHEMERIS for the year 2299
geocentric

APRIL 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 37 1	11° 8'05	3° 36'	19° 31'	25° 54'	0° 53'	24° 37'	17° 34'	6° 32'	3° 56'	14° 26'	7° 12'	7° 21'	19° 26'	15° 13'	S 1
S 2	12 40 57	12° 7'29	18° 56'	21° 31'	27° 8'	1° 38'	24° 40'	17° 36'	6° 30'	3° 56'	14° 27'	6° 50'	7° 17'	19° 32'	15° 15'	S 2
M 3	12 44 54	13° 6'52	4° 13'	23° 31'	28° 22'	2° 23'	24° 42'	17° 37'	6° 28'	3° 55'	14° 29'	6° 40'	7° 14'	19° 39'	15° 17'	M 3
T 4	12 48 50	14° 6'12	19° 16'	25° 29'	29° 37'	3° 7'	24° 45'	17° 39'	6° 26'	3° 54'	14° 30'	6° 31'	7° 11'	19° 46'	15° 18'	T 4
W 5	12 52 47	15° 5'30	3° 15'	27° 26'	0° 51'	3° 52'	24° 48'	17° 41'	6° 24'	3° 53'	14° 32'	6° 26'	7° 8'	19° 53'	15° 20'	W 5
T 6	12 56 43	16° 4'45	18° 10'	29° 20'	2° 5'	4° 37'	24° 50'	17° 42'	6° 22'	3° 52'	14° 33'	6° 23'	7° 5'	19° 59'	15° 22'	T 6
F 7	13 0 40	17° 3'59	1° 55'	1° 12'	3° 19'	5° 21'	24° 54'	17° 44'	6° 20'	3° 51'	14° 34'	6° 22'	7° 2'	20° 6'	15° 23'	F 7
S 8	13 4 37	18° 3'10	15° 13'	3° 1'	4° 34'	6° 6'	24° 57'	17° 47'	6° 19'	3° 50'	14° 36'	6° 22'	6° 58'	20° 13'	15° 25'	S 8
S 9	13 8 33	19° 2'18	28° 8'	4° 47'	5° 48'	6° 50'	25° 1'	17° 49'	6° 17'	3° 49'	14° 37'	6° 22'	6° 55'	20° 20'	15° 26'	S 9
M10	13 12 30	20° 1'25	10° 44'	6° 29'	7° 2'	7° 34'	25° 4'	17° 51'	6° 15'	3° 48'	14° 39'	6° 20'	6° 52'	20° 26'	15° 27'	M10
T 11	13 16 26	21° 0'29	23° 5'	8° 7'	8° 17'	8° 19'	25° 8'	17° 53'	6° 14'	3° 47'	14° 40'	6° 16'	6° 49'	20° 33'	15° 28'	T 11
W12	13 20 23	21° 59'30	5° 14'	9° 41'	9° 31'	9° 3'	25° 12'	17° 56'	6° 12'	3° 46'	14° 41'	6° 9'	6° 46'	20° 40'	15° 30'	W12
T 13	13 24 19	22° 58'30	17° 16'	11° 10'	10° 45'	9° 47'	25° 16'	17° 59'	6° 10'	3° 45'	14° 43'	6° 0'	6° 42'	20° 46'	15° 31'	T 13
F 14	13 28 16	23° 57'27	29° 13'	12° 34'	11° 59'	10° 31'	25° 21'	18° 1'	6° 9'	3° 44'	14° 44'	5° 48'	6° 39'	20° 53'	15° 32'	F 14
S 15	13 32 12	24° 56'22	11° 6'	13° 53'	13° 13'	11° 15'	25° 25'	18° 4'	6° 8'	3° 42'	14° 45'	5° 35'	6° 36'	21° 0'	15° 32'	S 15
S 16	13 36 9	25° 55'16	22° 59'	15° 7'	14° 28'	12° 0'	25° 30'	18° 7'	6° 6'	3° 41'	14° 47'	5° 22'	6° 33'	21° 7'	15° 33'	S 16
M17	13 40 6	26° 54'07	4° 15'	16° 16'	15° 42'	12° 44'	25° 35'	18° 10'	6° 5'	3° 40'	14° 48'	5° 10'	6° 30'	21° 13'	15° 34'	M17
T 18	13 44 2	27° 52'56	16° 45'	17° 19'	16° 56'	13° 28'	25° 40'	18° 13'	6° 3'	3° 39'	14° 49'	4° 59'	6° 27'	21° 20'	15° 34'	T 18
W19	13 47 59	28° 51'43	28° 43'	18° 15'	18° 10'	14° 12'	25° 45'	18° 16'	6° 2'	3° 38'	14° 51'	4° 51'	6° 23'	21° 27'	15° 35'	W19
T 20	13 51 55	29° 50'29	10° 45'	19° 6'	19° 24'	14° 55'	25° 50'	18° 20'	6° 1'	3° 36'	14° 52'	4° 46'	6° 20'	21° 33'	15° 35'	T 20
F 21	13 55 52	0° 49'13	22° 56'	19° 51'	20° 38'	15° 39'	25° 56'	18° 23'	6° 0'	3° 35'	14° 53'	4° 43'	6° 17'	21° 40'	15° 35'	F 21
S 22	13 59 48	1° 47'55	5° 19'	20° 30'	21° 53'	16° 23'	26° 2'	18° 27'	5° 59'	3° 34'	14° 54'	4° 42'	6° 14'	21° 47'	15° 36'	S 22
S 23	14 3 45	2° 46'35	17° 57'	21° 3'	23° 7'	17° 7'	26° 7'	18° 30'	5° 57'	3° 32'	14° 55'	4° 43'	6° 11'	21° 54'	15° 36'	S 23
M24	14 7 41	3° 45'14	0° 45'	21° 30'	24° 21'	17° 50'	26° 13'	18° 34'	5° 56'	3° 31'	14° 57'	4° 43'	6° 8'	22° 0'	15° 36'	M24
T 25	14 11 38	4° 43'51	14° 15'	21° 50'	25° 35'	18° 34'	26° 19'	18° 38'	5° 55'	3° 30'	14° 58'	4° 43'	6° 4'	22° 7'	15° 36'	T 25
W26	14 15 35	5° 42'26	28° 3'	22° 5'	26° 49'	19° 18'	26° 26'	18° 42'	5° 54'	3° 28'	14° 59'	4° 41'	6° 1'	22° 14'	15° 36'	W26
T 27	14 19 31	6° 41'00	12° 17'	22° 13'	28° 3'	20° 1'	26° 32'	18° 46'	5° 54'	3° 27'	15° 0'	4° 36'	5° 58'	22° 20'	15° 35'	T 27
F 28	14 23 28	7° 39'32	26° 58'	22° 16'	29° 17'	20° 45'	26° 39'	18° 50'	5° 53'	3° 25'	15° 1'	4° 30'	5° 55'	22° 27'	15° 35'	F 28
S 29	14 27 24	8° 38'03	11° 59'	22° 13'	0° 31'	21° 28'	26° 45'	18° 54'	5° 52'	3° 24'	15° 2'	4° 22'	5° 52'	22° 34'	15° 35'	S 29
S 30	14 31 21	9° 36'31	27° 12'	22° 4'	1° 45'	22° 12'	26° 52'	18° 58'	5° 51'	3° 23'	15° 3'	4° 14'	5° 48'	22° 41'	15° 34'	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	4n24	3s 9	5s 0	7n29	0s 9	2s58	1s27	11n37	0s 9	21n40	0n30	22n 9	0s 6	9n51	0n48	19s14
S 2	4 47	2n52	4 54	8 24	0n 2	2 29	1 28	11 54	0 8	21 39	0 30	22 9	0 6	9 52	0 48	19 14
M 3	5 10	8 43	4 27	9 19	0 13	2 0	1 28	12 10	0 8	21 39	0 30	22 9	0 6	9 52	0 48	19 14
T 4	5 33	13 58	3 41	10 13	0 24	1 31	1 29	12 26	0 7	21 38	0 30	22 8	0 6	9 53	0 48	19 13
W 5	5 56	18 15	2 42	11 6	0 36	1 1	1 29	12 41	0 6	21 38	0 30	22 8	0 6	9 54	0 48	19 13
T 6	6 19	21 18	1 35	11 58	0 48	0 32	1 29	12 57	0 6	21 37	0 30	22 8	0 6	9 54	0 48	19 13
F 7	6 42	23 0	0 24	12 48	0 59	0 3	1 29	13 13	0 5	21 37	0 30	22 8	0 6	9 55	0 48	19 13
S 8	7 4	23 18	0n47	13 37	1 11	0n27	1 29	13 28	0 4	21 36	0 30	22 8	0 6	9 56	0 48	19 13
S 9	7 27	22 20	1 53	14 23	1 22	0 56	1 29	13 43	0 3	21 36	0 30	22 8	0 5	9 56	0 48	19 12
M10	7 49	20 15	2 51	15 8	1 34	1 26	1 29	13 58	0 3	21 35	0 31	22 7	0 5	9 57	0 48	19 12
T 11	8 11	17 16	3 40	15 50	1 44	1 55	1 29	14 13	0 2	21 34	0 31	22 7	0 5	9 58	0 48	19 12
W12	8 33	13 35	4 19	16 30	1 55	2 24	1 29	14 28	0 1	21 34	0 31	22 7	0 5	9 58	0 48	19 12
T 13	8 55	9 24	4 45	17 8	2 4	2 54	1 28	14 43	0 1	21 33	0 31	22 7	0 5	9 59	0 48	19 11
F 14	9 17	4 53	4 59	17 42	2 14	3 23	1 28	14 57	0 0	21 32	0 31	22 7	0 5	9 59	0 48	19 11
S 15	9 38	0 13	5 0	18 14	2 22	3 52	1 27	15 12	0n 1	21 31	0 31	22 6	0 5	10 0	0 48	19 11
S 16	10 0	4s28	4 47	18 44	2 30	4 21	1 27	15 26	0 1	21 30	0 31	22 6	0 5	10 0	0 48	19 11
M17	10 21	9 0	4 22	19 10	2 37	4 50	1 26	15 40	0 2	21 30	0 31	22 6	0 5	10 1	0 48	19 10
T 18	10 42	13 12	3 46	19 34	2 42	5 19	1 26	15 54	0 3	21 29	0 31	22 5	0 4	10 1	0 48	19 10
W19	11 3	16 56	2 59	19 55	2 47	5 48	1 25	16 7	0 3	21 28	0 31	22 5	0 4	10 2	0 48	19 10
T 20	11 24	19 59	2 4	20 13	2 51	6 17	1 24	16 21	0 4	21 27	0 31	22 5	0 4	10 2	0 48	19 10
F 21	11 44	22 10	1 2	20 28	2 54	6 45	1 24	16 34	0 5	21 26	0 31	22 4	0 4	10 2	0 48	19 9
S 22	12 5	23 21	0s 3	20 40	2 56	7 14	1 23	16 48	0 5	21 25	0 31	22 4	0 4	10 3	0 48	19 9
S 23	12 25	23 21	1 10	20 49	2 56	7 42	1 22	17 1	0 6	21 24	0 31	22 4	0 4	10 3	0 48	19 9
M24	12 45	22 7	2 15	20 56	2 55	8 10	1 21	17 14	0 6	21 22	0 31	22 3	0 4	10 3	0 48	19 9
T 25	13 5	19 38	3 15	20 59	2 53	8 38	1 20	17 26	0 7	21 21	0 31	22 3	0 4	10 4	0 48	19 8
W26	13 24	15 58	4 5	21 0	2 50	9 6	1 19	17 39	0 8	21 20	0 31	22 2	0 4	10 4	0 48	19 8
T 27	13 43	11 17	4 43	20 58	2 45	9 33	1 18	17 51	0 8	21 19	0 31	22 2	0 4	10 4	0 48	19 8
F 28	14 3	5 50	5 3	20 52	2 39	10 1	1 16	18 3	0 9	21 18	0 31	22 1	0 3	10 5	0 48	19 7
S 29	14 21	0n 5	5 2	20 45	2 32	10 28	1 15	18 15	0 10	21 16	0 31	22 1	0 3	10 5	0 48	19 7
S 30	14n40	6n 5	4s41	20n34	2n23	10n55	1s14	18n27	0n10	21n15	0n31	22n 0	0s 3	10n 5	0n47	19s 7

Julian Day Number = 2560842.5, Delta T = 295.68 sec
Ecliptic obliquity = 23°24'01, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 28°55'23, Lahiri = 28°02'24

ASTRODIENST EPHEMERIS for the year 2299
geocentric

MAY 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 35 17	10♈34°58	12♈27	21°R50	2♈59	22♈55	26♈59	19♈2	5°R50	3°R21	15♈4	4°R6	5♈45	22♈47	15°R34	M 1
T 2	14 39 14	11°33'24	27°32	21♈32	4°13	23°38	27°6	19°7	5♈50	3♈20	15°5	4♈0	5°42	22°54	15♈33	T 2
W 3	14 43 10	12°31'47	12♈20	21°9	5°28	24°21	27°14	19°11	5°49	3°18	15°6	3°56	5°39	23°1	15°32	W 3
T 4	14 47 7	13°30'08	26°42	20°41	6°42	25°5	27°21	19°16	5°49	3°17	15°7	3°54	5°36	23°7	15°31	T 4
F 5	14 51 4	14°28'28	10♈37	20°11	7°56	25°48	27°29	19°20	5°48	3°15	15°8	3°D54	5°33	23°14	15°30	F 5
S 6	14 55 0	15°26'45	24°3	19°38	9°10	26°31	27°36	19°25	5°48	3°14	15°9	3°55	5°29	23°21	15°29	S 6
S 7	14 58 57	16°25'01	7♈4	19°2	10°24	27°14	27°44	19°30	5°47	3°12	15°10	3°56	5°26	23°28	15°28	S 7
M 8	15 2 53	17°23'14	19°43	18°25	11°38	27°57	27°52	19°35	5°47	3°11	15°11	3°R56	5°23	23°34	15°27	M 8
T 9	15 6 50	18°21'25	2♈4	17°47	12°52	28°40	28°0	19°40	5°47	3°9	15°12	3°55	5°20	23°41	15°26	T 9
W10	15 10 46	19°19'34	14°11	17°9	14°5	29°23	28°8	19°45	5°47	3°7	15°13	3°52	5°17	23°48	15°24	W10
T 11	15 14 43	20°17'41	26°10	16°32	15°19	0♈6	28°17	19°50	5°47	3°6	15°14	3°47	5°14	23°54	15°23	T 11
F 12	15 18 39	21°15'47	8♈3	15°55	16°33	0°48	28°25	19°55	5°46	3°4	15°14	3°41	5°10	24°1	15°21	F 12
S 13	15 22 36	22°13'50	19°55	15°20	17°47	1°31	28°34	20°1	5°D46	3°3	15°15	3°33	5°7	24°8	15°20	S 13
S 14	15 26 33	23°11'52	1♈47	14°48	19°1	2°14	28°42	20°6	5°46	3°1	15°16	3°26	5°4	24°15	15°18	S 14
M15	15 30 29	24°9'52	13°42	14°18	20°15	2°56	28°51	20°11	5°46	3°0	15°17	3°19	5°1	24°21	15°16	M15
T 16	15 34 26	25°7'51	25°42	13°52	21°29	3°39	29°0	20°17	5°47	2°58	15°18	3°13	4°58	24°28	15°15	T 16
W17	15 38 22	26°5'48	7♈48	13°30	22°43	4°22	29°9	20°22	5°47	2°56	15°18	3°8	4°54	24°35	15°13	W17
T 18	15 42 19	27°3'43	20°1	13°11	23°57	5°4	29°18	20°28	5°47	2°55	15°19	3°6	4°51	24°42	15°11	T 18
F 19	15 46 15	28°1'38	2♈24	12°56	25°11	5°46	29°27	20°34	5°47	2°53	15°20	3°D5	4°48	24°48	15°9	F 19
S 20	15 50 12	28°59'30	14°58	12°46	26°25	6°29	29°36	20°39	5°48	2°51	15°20	3°5	4°45	24°55	15°7	S 20
S 21	15 54 8	29°57'22	27°46	12°41	27°38	7°11	29°46	20°45	5°48	2°50	15°21	3°7	4°42	25°2	15°4	S 21
M22	15 58 5	0♈55'12	10♈50	12°D40	28°52	7°54	29°55	20°51	5°48	2°48	15°21	3°8	4°39	25°8	15°2	M22
T 23	16 2 2	1°53'01	24°13	12°43	0♈6	8°36	0♈5	20°57	5°49	2°47	15°22	3°9	4°35	25°15	15°0	T 23
W24	16 5 58	2°50'49	7♈57	12°51	1°20	9°18	0°15	21°3	5°49	2°45	15°23	3°R9	4°32	25°22	14°57	W24
T 25	16 9 55	3°48'36	22°1	13°4	2°34	10°0	0°25	21°9	5°50	2°43	15°23	3°8	4°29	25°29	14°55	T 25
F 26	16 13 51	4°46'22	6♈26	13°21	3°48	10°42	0°35	21°15	5°51	2°42	15°24	3°6	4°26	25°35	14°52	F 26
S 27	16 17 48	5°44'06	21°8	13°42	5°1	11°24	0°45	21°21	5°51	2°40	15°24	3°3	4°23	25°42	14°50	S 27
S 28	16 21 44	6°41'50	6♈1	14°8	6°15	12°6	0°55	21°28	5°52	2°38	15°25	2°59	4°20	25°49	14°47	S 28
M29	16 25 41	7°39'33	20°58	14°38	7°29	12°48	1°5	21°34	5°53	2°37	15°25	2°56	4°16	25°55	14°44	M29
T 30	16 29 37	8°37'14	5♈50	15°12	8°43	13°30	1°15	21°40	5°54	2°35	15°25	2°53	4°13	26°2	14°41	T 30
W31	16 33 34	9♈34'54	20♈29	15♈50	9♈57	14♈12	1♈26	21♈47	5♈55	2♈34	15♈26	2♈51	4♈10	26♈9	14♈39	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	14n58	11n44	4s 0	20n21	2n14	11n21	1s12	18n39	0n11	21n14	0n31	22n 0	0s 3	10n 5	0n47	19s 6	1n43	17s51	13s 1	23n20	23n17	4s16	15s27	7n 5					
T 2	15 17	16 37	3 2	20 5	2 2	11 48	1 11	18 50	0 12	21 12	0 31	21 59	0 3	10 6	0 47	19 6	1 43	17 51	13 2	23 20	23 17	4 19	15 27	7 6					
W 3	15 34	20 22	1 53	19 47	1 50	12 14	1 10	19 2	0 12	21 11	0 31	21 59	0 3	10 6	0 47	19 6	1 43	17 51	13 2	23 21	23 17	4 22	15 26	7 6					
T 4	15 52	22 43	0 39	19 27	1 36	12 39	1 8	19 13	0 13	21 9	0 31	21 58	0 3	10 6	0 47	19 6	1 43	17 50	13 2	23 21	23 17	4 25	15 26	7 7					
F 5	16 9	23 35	0n36	19 5	1 22	13 5	1 7	19 24	0 13	21 8	0 31	21 58	0 3	10 6	0 47	19 5	1 43	17 50	13 3	23 21	23 17	4 27	15 25	7 8					
S 6	16 26	23 1	1 47	18 41	1 7	13 30	1 5	19 34	0 14	21 7	0 31	21 57	0 3	10 6	0 47	19 5	1 43	17 50	13 3	23 21	23 17	4 30	15 25	7 8					
S 7	16 43	21 12	2 49	18 16	0 50	13 55	1 3	19 45	0 15	21 5	0 31	21 57	0 3	10 6	0 47	19 5	1 43	17 50	13 3	23 21	23 17	4 33	15 24	7 9					
M 8	17 0	18 23	3 42	17 49	0 34	14 19	1 2	19 55	0 15	21 3	0 31	21 56	0 2	10 6	0 47	19 4	1 43	17 50	13 3	23 21	23 17	4 35	15 24	7 9					
T 9	17 16	14 48	4 22	17 22	0 17	14 43	1 0	20 5	0 16	21 2	0 31	21 55	0 2	10 6	0 47	19 4	1 43	17 50	13 4	23 21	23 18	4 38	15 23	7 10					
W10	17 32	10 41	4 51	16 55	0s 1	15 7	0 58	20 15	0 17	21 0	0 31	21 55	0 2	10 6	0 47	19 4	1 43	17 50	13 4	23 21	23 18	4 41	15 23	7 11					
T 11	17 47	6 12	5 6	16 27	0 18	15 30	0 56	20 25	0 17	20 59	0 31	21 54	0 2	10 6	0 47	19 3	1 43	17 50	13 4	23 21	23 18	4 43	15 22	7 11					
F 12	18 3	1 31	5 8	16 0	0 36	15 53	0 54	20 34	0 18	20 57	0 31	21 53	0 2	10 6	0 47	19 3	1 43	17 50	13 5	23 21	23 18	4 46	15 22	7 12					
S 13	18 18	3s12	4 56	15 34	0 53	16 16	0 52	20 44	0 18	20 55	0 31	21 53	0 2	10 6	0 47	19 3	1 43	17 50	13 5	23 21	23 18	4 49	15 21	7 13					
S 14	18 33	7 49	4 32	15 9	1 10	16 38	0 50	20 53	0 19	20 53	0 31	21 52	0 2	10 6	0 47	19 3	1 43	17 50	13 5	23 21	23 18	4 52	15 21	7 13					
M15	18 47	12 10	3 56	14 44	1 26	17 0	0 48	21 2	0 20	20 52	0 31	21 51	0 2	10 6	0 47	19 2	1 43	17 50	13 6	23 22	23 18	4 54	15 21	7 14					
T 16	19 1	16 5	3 9	14 22	1 41	17 21	0 46	21 11	0 20	20 50	0 31	21 51	0 2	10 6	0 47	19 2	1 43	17 50	13 6	23 22	23 18	4 57	15 20	7 14					
W17	19 15	19 23	2 13	14 1	1 56	17 42	0 44	21 19	0 21	20 48	0 31	21 50	0 2	10 6	0 47	19 2	1 43	17 50	13 6	23 22	23 19	5 0	15 20	7 15					
T 18	19 28	21 51	1 11	13 42	2 10	18 3	0 42	21 27	0 21	20 46	0 31	21 49	0 2	10 6	0 47	19 1	1 43	17 50	13 7	23 22	23 19	5 2	15 19	7 15					
F 19	19 41	23 19	0 4	13 25	2 23	18 23	0 40	21 36	0 22	20 44	0 31	21 48	0 1	10 6	0 47	19 1	1 43	17 50	13 7	23 22	23 19	5 5	15 19	7 16					
S 20	19 54	23 38	1s 4	13 11	2 35	18 42	0 38	21 43	0 22	20 42	0 31	21 48	0 1	10 6	0 47	19 1	1 43	17 50	13 7	23 22	23 19	5 8	15 19	7 17					
S 21	20 6	22 43	2 11	12 59	2 46	19 1	0 36	21 51	0 23	20 40	0 31	21 47	0 1	10 6	0 47	19 0	1 43	17 50	13 8	23 22	23 19	5 11	15 18	7 17					
M22	20 19	20 33	3 12	12 49	2 56	19 20	0 34	21 59	0 24	20 38	0 31	21 46	0 1	10 5	0 47	19 0	1 43	17 50	13 8	23 22	23 19	5 13	15 18	7 18					
T 23	20 30	17 15	4 4	12 41	3 5	19 37	0 32	22 6	0 24	20 36	0 31	21 45	0 1	10 5	0 47	19 0	1 43	17 50	13 8	23 22	23 19	5 16	15 18	7 18					
W24	20 42	12 57	4 43	12 36	3 13	19 55	0 29	22 13	0 25	20 34	0 31	21 44	0 1	10 5	0 47	18 59	1 43	17 50	13 9	23 22	23 19	5 19	15 18	7 19					
T 25	20 53	7 52	5 7	12 33	3 20	20 12	0 27	22 20	0 25	20 32	0 31	21 44	0 1	10 5	0 46	18 59	1 43	17 51	13 9	23 22	23 19	5 21	15 17	7 19					
F 26	21 3	2 14	5 13	12 33	3 26	20 28	0 25	22 26	0 26	20 30	0 31	21 43	0 1	10 4	0 46	18 59	1 43	17 51	13 9	23 22	23 20	5 24	15 17	7 20					
S 27	21 14	3n38	4 58	12 34	3 31	20 44	0 22	22 33	0 26	20 28	0 31	21 42	0 1	10 4	0 46	18 58	1 43	17 51	13 10	23 22	23 20	5 27	15 17	7 20					
S 28	21 24	9 22	4 23	12 38	3 34	20 59	0 20	22 39	0 27	20 26	0 31	21 41	0 1	10 4	0 46	18 58	1 43	17 51	13 10	23 22	23 20	5 29	15 17	7 21					
M29	21 33	14 35	3 30	12 44	3 37	21 14	0 18	22 45	0 28	20 23	0 31	21 40	0 1	10 3	0 46	18 58	1 43	17 51	13 11	23 22	23 20	5 32	15 16	7 21					
T 30	21 42	18 54	2 23	12 52	3 39	21 28	0 16	22 51	0 28	20 21	0 31	21 39	0 0	10 3	0 46	18 58	1 43	17 51	13 11	23 22	23 20	5 35	15 16	7 22					
W31	21n51	21n56	1s 8	13n 2	3s41	21n41	0s13	22n56	0n29	20n19	0n31	21n38	0s 0	10n 3	0n46	18s57	1n43	17s51	13s11	23n22	23n20	5s38	15s16	7n22					

Julian Day Number = 2560872.5, Delta T = 295.82 sec
Ecliptic obliquity = 23°24'01, Nutation = - 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 28°55'27, Lahiri = 28°02'28

ASTRODIENST EPHEMERIS for the year 2299

geocentric

JUNE 2299

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 31	10 ^{II} 32'33	4 [☾] 49	16 [♂] 32	11 ^{II} 11	14 ^{II} 54	1 [♂] 36	21 [☾] 53	5 [♂] 56	2 ^R 32	15 [♂] 26	2 ^D 51	4 [☾] 7	26 [♂] 16	14 ^R 36	T 1
F 2	16 41 27	11°30'11	18°45	17°18	12°24	15°36	1°47	22° 0	5°57	2 [♂] 30	15°27	2 [☾] 52	4° 4	26°22	14 [☾] 33	F 2
S 3	16 45 24	12°27'48	2 [♂] 16	18° 7	13°38	16°17	1°57	22° 6	5°58	2°29	15°27	2°53	4° 0	26°29	14°30	S 3
S 4	16 49 20	13°25'22	15°21	19° 0	14°52	16°59	2° 8	22°13	5°59	2°27	15°27	2°54	3°57	26°36	14°26	S 4
M 5	16 53 17	14°22'56	28° 5	19°56	16° 6	17°41	2°19	22°20	6° 0	2°26	15°27	2°56	3°54	26°42	14°23	M 5
T 6	16 57 13	15°20'28	10 [♂] 29	20°56	17°19	18°22	2°30	22°26	6° 1	2°24	15°28	2 ^R 56	3°51	26°49	14°20	T 6
W 7	17 1 10	16°17'59	22°39	21°59	18°33	19° 4	2°41	22°33	6° 3	2°22	15°28	2°56	3°48	26°56	14°17	W 7
T 8	17 5 6	17°15'29	4 [♂] 38	23° 5	19°47	19°45	2°52	22°40	6° 4	2°21	15°28	2°55	3°45	27° 2	14°14	T 8
F 9	17 9 3	18°12'57	16°32	24°14	21° 1	20°27	3° 3	22°47	6° 5	2°19	15°28	2°54	3°41	27° 9	14°10	F 9
S 10	17 13 0	19°10'24	28°24	25°26	22°14	21° 8	3°14	22°54	6° 7	2°18	15°28	2°52	3°38	27°16	14° 7	S 10
S 11	17 16 56	20° 7'50	10 [♂] 18	26°42	23°28	21°50	3°25	23° 1	6° 8	2°16	15°28	2°50	3°35	27°23	14° 3	S 11
M12	17 20 53	21° 5'15	22°17	28° 0	24°42	22°31	3°37	23° 8	6°10	2°15	15°29	2°48	3°32	27°29	14° 0	M12
T 13	17 24 49	22° 2'39	4 [♂] 23	29°21	25°56	23°12	3°48	23°15	6°11	2°13	15°29	2°47	3°29	27°36	13°56	T 13
W14	17 28 46	23° 0'02	16°40	0 ^{II} 45	27° 9	23°53	3°59	23°22	6°13	2°12	15°29	2°46	3°26	27°43	13°53	W14
T 15	17 32 42	23°57'24	29° 8	2°12	28°23	24°35	4°11	23°29	6°14	2°10	15°29	2°D46	3°22	27°49	13°49	T 15
F 16	17 36 39	24°54'46	11 [☾] 48	3°42	29°37	25°16	4°23	23°36	6°16	2° 9	15°R29	2°46	3°19	27°56	13°46	F 16
S 17	17 40 36	25°52'07	24°42	5°15	0 [☾] 51	25°57	4°34	23°43	6°18	2° 7	15°29	2°46	3°16	28° 3	13°42	S 17
S 18	17 44 32	26°49'27	7 [☾] 49	6°50	2° 4	26°38	4°46	23°50	6°20	2° 6	15°29	2°47	3°13	28°10	13°38	S 18
M19	17 48 29	27°46'47	21°10	8°29	3°18	27°19	4°58	23°58	6°22	2° 4	15°29	2°47	3°10	28°16	13°34	M19
T 20	17 52 25	28°44'06	4 [♂] 45	10°10	4°32	28° 0	5°10	24° 5	6°24	2° 3	15°28	2°48	3° 6	28°23	13°31	T 20
W21	17 56 22	29°41'25	18°34	11°54	5°45	28°41	5°21	24°12	6°25	2° 2	15°28	2°48	3° 3	28°30	13°27	W21
T 22	18 0 18	0 [☾] 38'43	2 [♂] 36	13°40	6°59	29°22	5°33	24°20	6°27	2° 0	15°28	2°R48	3° 0	28°36	13°23	T 22
F 23	18 4 15	1°36'01	16°51	15°30	8°13	0 [☾] 3	5°45	24°27	6°30	1°59	15°28	2°48	2°57	28°43	13°19	F 23
S 24	18 8 11	2°33'19	1 [♂] 14	17°22	9°26	0°43	5°58	24°34	6°32	1°57	15°28	2°D48	2°54	28°50	13°15	S 24
S 25	18 12 8	3°30'37	15°44	19°16	10°40	1°24	6°10	24°42	6°34	1°56	15°28	2°48	2°51	28°57	13°12	S 25
M26	18 16 5	4°27'55	0 ^{II} 14	21°13	11°54	2° 5	6°22	24°49	6°36	1°55	15°27	2°48	2°47	29° 3	13° 8	M26
T 27	18 20 1	5°25'12	14°42	23°12	13° 8	2°45	6°34	24°57	6°38	1°54	15°27	2°48	2°44	29°10	13° 4	T 27
W28	18 23 58	6°22'29	29° 0	25°14	14°21	3°26	6°46	25° 4	6°40	1°52	15°27	2°R48	2°41	29°17	13° 0	W28
T 29	18 27 54	7°19'46	13 [☾] 4	27°17	15°35	4° 7	6°59	25°12	6°43	1°51	15°27	2°48	2°38	29°23	12°56	T 29
F 30	18 31 51	8 [☾] 17'02	26 [☾] 50	29 ^{II} 22	16 [☾] 49	4 [☾] 47	7 [♂] 11	25 [☾] 19	6 [♂] 45	1 [♂] 50	15 [♂] 26	2 [☾] 48	2 [☾] 35	29 [♂] 30	12 [☾] 52	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	21n59	23n30	0n11	13n13	3s41	21n54	0s11	23n 2	0n29	20n17	0n31	21n37	0s 0	10n 2	0n46	18s57	1n43	17s52	13s12	23n22	23n20	5s40	15s16	7n23	
F 2	22 8	23 31	1 26	13 27	3 40	22 6	0 8	23 7	0 30	20 14	0 31	21 36	0 0	10 2	0 46	18 57	1 43	17 52	13 12	23 22	23 20	5 43	15 16	7 23	
S 3	22 15	22 8	2 35	13 42	3 39	22 18	0 6	23 12	0 30	20 12	0 31	21 35	0 0	10 1	0 46	18 56	1 43	17 52	13 12	23 22	23 20	5 46	15 16	7 24	
S 4	22 22	19 36	3 33	13 58	3 37	22 29	0 4	23 17	0 31	20 10	0 31	21 34	0n 0	10 1	0 46	18 56	1 43	17 52	13 13	23 22	23 20	5 48	15 16	7 24	
M 5	22 29	16 10	4 19	14 16	3 34	22 39	0 1	23 21	0 31	20 7	0 31	21 33	0 0	10 1	0 46	18 56	1 43	17 52	13 13	23 22	23 21	5 51	15 15	7 24	
T 6	22 36	12 7	4 52	14 35	3 30	22 49	0n 1	23 25	0 32	20 5	0 31	21 32	0 0	10 0	0 46	18 55	1 43	17 53	13 13	23 22	23 21	5 54	15 15	7 25	
W 7	22 42	7 40	5 11	14 55	3 26	22 58	0 3	23 29	0 32	20 2	0 31	21 31	0 0	10 0	0 46	18 55	1 43	17 53	13 14	23 22	23 21	5 57	15 15	7 25	
T 8	22 47	2 59	5 15	15 16	3 21	23 6	0 6	23 33	0 33	20 0	0 31	21 30	0 0	9 59	0 46	18 55	1 43	17 53	13 14	23 22	23 21	5 59	15 15	7 26	
F 9	22 53	1s46	5 7	15 38	3 15	23 14	0 8	23 37	0 33	19 57	0 31	21 29	0 0	9 58	0 46	18 55	1 43	17 53	13 14	23 22	23 21	6 2	15 15	7 26	
S 10	22 58	6 27	4 45	16 2	3 9	23 21	0 11	23 40	0 34	19 55	0 31	21 28	0 1	9 58	0 46	18 54	1 43	17 54	13 15	23 22	23 21	6 5	15 15	7 26	
S 11	23 2	10 54	4 11	16 26	3 2	23 27	0 13	23 43	0 35	19 52	0 31	21 27	0 1	9 57	0 46	18 54	1 43	17 54	13 15	23 22	23 21	6 7	15 15	7 27	
M12	23 6	15 0	3 26	16 50	2 55	23 33	0 15	23 46	0 35	19 49	0 31	21 26	0 1	9 57	0 46	18 54	1 43	17 54	13 16	23 22	23 21	6 10	15 15	7 27	
T 13	23 10	18 31	2 31	17 15	2 47	23 38	0 18	23 49	0 36	19 47	0 31	21 25	0 1	9 56	0 46	18 53	1 43	17 55	13 16	23 22	23 21	6 13	15 15	7 27	
W14	23 13	21 16	1 28	17 41	2 39	23 42	0 20	23 52	0 36	19 44	0 32	21 24	0 1	9 56	0 46	18 53	1 43	17 55	13 16	23 22	23 21	6 15	15 15	7 28	
T 15	23 16	23 4	0 20	18 7	2 30	23 46	0 22	23 54	0 37	19 41	0 32	21 23	0 1	9 55	0 46	18 53	1 43	17 55	13 17	23 22	23 21	6 18	15 15	7 28	
F 16	23 18	23 42	0s50	18 33	2 21	23 49	0 25	23 56	0 37	19 39	0 32	21 22	0 1	9 54	0 46	18 53	1 43	17 55	13 17	23 22	23 22	6 21	15 15	7 28	
S 17	23 20	23 6	1 59	18 59	2 11	23 51	0 27	23 58	0 38	19 36	0 32	21 20	0 1	9 53	0 46	18 52	1 43	17 56	13 17	23 22	23 22	6 24	15 15	7 29	
S 18	23 22	21 13	3 2	19 26	2 1	23 52	0 29	23 59	0 38	19 33	0 32	21 19	0 1	9 53	0 46	18 52	1 43	17 56	13 18	23 22	23 22	6 26	15 15	7 29	
M19	23 23	18 10	3 57	19 52	1 51	23 53	0 32	24 1	0 39	19 30	0 32	21 18	0 1	9 52	0 45	18 52	1 43	17 57	13 18	23 22	23 22	6 29	15 16	7 29	
T 20	23 24	14 6	4 40	20 17	1 40	23 53	0 34	24 2	0 39	19 28	0 32	21 17	0 1	9 51	0 45	18 52	1 43	17 57	13 18	23 22	23 22	6 32	15 16	7 29	
W21	23 24	9 14	5 7	20 42	1 29	23 52	0 36	24 3	0 40	19 25	0 32	21 16	0 2	9 50	0 45	18 51	1 43	17 57	13 19	23 22	23 22	6 34	15 16	7 30	
T 22	23 24	3 49	5 17	21 7	1 18	23 51	0 38	24 4	0 40	19 22	0 32	21 15	0 2	9 50	0 45	18 51	1 43	17 58	13 19	23 22	23 22	6 37	15 16	7 30	
F 23	23 23	1n52	5 8	21 31	1 7	23 49	0 40	24 5	0 41	19 19	0 32	21 13	0 2	9 49	0 45	18 51	1 43	17 58	13 19	23 22	23 22	6 40	15 16	7 30	
S 24	23 23	7 31	4 39	21 53	0 55	23 46	0 42	24 5	0 41	19 16	0 32	21 12	0 2	9 48	0 45	18 51	1 42	17 58	13 20	23 22	23 22	6 43	15 16	7 30	
S 25	23 21	12 49	3 52	22 15	0 44	23 43	0 45	24 5	0 41	19 13	0 32	21 11	0 2	9 47	0 45	18 50	1 42	17 59	13 20	23 22	23 22	6 45	15 16	7 30	
M26	23 19	17 23	2 51	22 35	0 32	23 39	0 47	24 5	0 42	19 10	0 32	21 10	0 2	9 47	0 45	18 50	1 42	17 59	13 20	23 22	23 22	6 48	15 17	7 31	
T 27	23 17	20 53	1 39	22 53	0 21	23 34	0 49	24 5	0 42	19 7	0 32	21 8	0 2	9 46	0 45	18 50	1 42	18 0	13 21	23 22	23 22	6 51	15 17	7 31	
W28	23 15	23 3	0 21	23 10	0 9	23 28	0 51	24 4	0 43	19 4	0 32	21 7	0 2	9 45	0 45	18 50	1 42	18 0	13 21	23 22	23 22	6 53	15 17	7 31	
T 29	23 12	23 42	0n57	23 24	0n 2	23 28	0 53	24 4	0 43	19 1	0 32	21 6	0 2	9 44	0 45	18 50	1 42	18 0	13 21	23 22	23 22	6 56	15 17	7 31	
F 30	23n 9	22n52	2n 9	23n37	0n13	23n15	0n55	24n 3	0n44	18n58	0n32	21n 5	0n 2	9n43	0n45	18s49	1n42	18s 1	13s22	23n22	23n22	6s59	15s18	7n31	

ASTRODIENST EPHEMERIS for the year 2299
geocentric

JULY 2299

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 47	9♂14'18	10♂16	19♂29	18♂2	5♂28	7♂23	25♂27	6♂47	1♂R49	15♂R26	2♂R47	2♂32	29♂37	12♂R48	S 1
S 2	18 39 44	10°11'34	23°21	3°37	19°16	6°8	7°36	25°35	6°50	1♂47	15♂26	2♂47	2°28	29°44	12♂44	S 2
M 3	18 43 40	11°8'49	6♂5	5°47	20°30	6°49	7°48	25°42	6°52	1°46	15°25	2°46	2°25	29°50	12°40	M 3
T 4	18 47 37	12°6'03	18°32	7°57	21°43	7°29	8°1	25°50	6°55	1°45	15°25	2°45	2°22	29°57	12°36	T 4
W 5	18 51 34	13°3'17	0♂43	10°7	22°57	8°9	8°14	25°57	6°57	1°44	15°24	2°44	2°19	0♂4	12°32	W 5
T 6	18 55 30	14°0'31	12°44	12°18	24°11	8°50	8°26	26°5	7°0	1°43	15°24	2°D44	2°16	0°10	12°28	T 6
F 7	18 59 27	14°57'44	24°38	14°29	25°25	9°30	8°39	26°13	7°3	1°42	15°23	2°44	2°12	0°17	12°24	F 7
S 8	19 3 23	15°54'57	6♂30	16°40	26°38	10°10	8°52	26°21	7°5	1°41	15°23	2°45	2°9	0°24	12°20	S 8
S 9	19 7 20	16°52'09	18°26	18°50	27°52	10°50	9°4	26°28	7°8	1°40	15°22	2°46	2°6	0°30	12°16	S 9
M10	19 11 16	17°49'21	0♂28	20°59	29°5	11°30	9°17	26°36	7°11	1°39	15°22	2°47	2°3	0°37	12°12	M10
T 11	19 15 13	18°46'34	12°41	23°7	0♂19	12°11	9°30	26°44	7°13	1°38	15°21	2°48	2°0	0°44	12°9	T 11
W12	19 19 9	19°43'46	25°7	25°14	1°33	12°51	9°43	26°51	7°16	1°37	15°21	2°49	1°57	0°51	12°5	W12
T 13	19 23 6	20°40'58	7♂50	27°20	2°46	13°31	9°56	26°59	7°19	1°36	15°20	2°R49	1°53	0°57	12°1	T 13
F 14	19 27 3	21°38'10	20°49	29°24	4°0	14°11	10°8	27°7	7°22	1°35	15°19	2°48	1°50	1°4	11°57	F 14
S 15	19 30 59	22°35'22	4♂6	1♂27	5°14	14°51	10°21	27°15	7°25	1°34	15°19	2°47	1°47	1°11	11°53	S 15
S 16	19 34 56	23°32'34	17°38	3°28	6°27	15°30	10°34	27°22	7°28	1°33	15°18	2°44	1°44	1°17	11°49	S 16
M17	19 38 52	24°29'47	1♂24	5°27	7°41	16°10	10°47	27°30	7°31	1°32	15°17	2°41	1°41	1°24	11°45	M17
T 18	19 42 49	25°27'00	15°21	7°25	8°55	16°50	11°0	27°38	7°34	1°31	15°17	2°38	1°38	1°31	11°42	T 18
W19	19 46 45	26°24'13	29°26	9°20	10°8	17°30	11°13	27°46	7°37	1°31	15°16	2°36	1°34	1°38	11°38	W19
T 20	19 50 42	27°21'27	13°Y36	11°14	11°22	18°10	11°26	27°54	7°40	1°30	15°15	2°34	1°31	1°44	11°34	T 20
F 21	19 54 38	28°18'41	27°49	13°6	12°35	18°49	11°39	28°1	7°43	1°29	15°14	2°D33	1°28	1°51	11°30	F 21
S 22	19 58 35	29°15'57	12♂2	14°56	13°49	19°29	11°52	28°9	7°46	1°28	15°14	2°34	1°25	1°58	11°27	S 22
S 23	20 2 32	0♂13'13	26°13	16°45	15°3	20°9	12°5	28°17	7°49	1°28	15°13	2°35	1°22	2°4	11°23	S 23
M24	20 6 28	1°10'29	10♂19	18°31	16°16	20°48	12°19	28°25	7°52	1°27	15°12	2°36	1°18	2°11	11°20	M24
T 25	20 10 25	2°7'47	24°20	20°16	17°30	21°28	12°32	28°32	7°55	1°27	15°11	2°38	1°15	2°18	11°16	T 25
W26	20 14 21	3°5'05	8♂11	21°59	18°44	22°8	12°45	28°40	7°59	1°26	15°10	2°R38	1°12	2°24	11°13	W26
T 27	20 18 18	4°2'24	21°52	23°40	19°57	22°47	12°58	28°48	8°2	1°25	15°9	2°36	1°9	2°31	11°9	T 27
F 28	20 22 14	4°59'43	5♂19	25°19	21°11	23°27	13°11	28°56	8°5	1°25	15°8	2°33	1°6	2°38	11°6	F 28
S 29	20 26 11	5°57'03	18°31	26°56	22°24	24°6	13°24	29°4	8°9	1°24	15°8	2°29	1°3	2°45	11°2	S 29
S 30	20 30 7	6°54'23	1♂27	28°32	23°38	24°45	13°38	29°11	8°12	1°24	15°7	2°24	0°59	2°51	10°59	S 30
M31	20 34 4	7♂51'44	14♂6	0♂5	24♂51	25♂25	13♂51	29♂19	8♂15	1♂24	15♂6	2♂18	0♂56	2♂58	10♂56	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	23n 5	20n44	3n13	23n47	0n23	23n 7	0n57	24n 2	0n44	18n55	0n32	21n 3	0n 2	9n42	0n45	18s49	1n42	18s 1	13s22	23n22	23n23	7s 1	15s18	7n31	
S 2	23 1	17 34	4 5	23 55	0 34	22 59	0 58	24 0	0 45	18 52	0 32	21 2	0 2	9 41	0 45	18 49	1 42	18 2	13 22	23 22	23 23	7 4	15 18	7 31	
M 3	22 56	13 39	4 43	24 0	0 43	22 50	1 0	23 59	0 45	18 48	0 32	21 1	0 3	9 40	0 45	18 49	1 42	18 2	13 23	23 22	23 23	7 7	15 18	7 31	
T 4	22 51	9 14	5 7	24 2	0 53	22 40	1 2	23 57	0 46	18 45	0 32	20 59	0 3	9 39	0 45	18 49	1 42	18 3	13 23	23 22	23 23	7 10	15 19	7 32	
W 5	22 46	4 33	5 16	24 2	1 1	22 30	1 4	23 55	0 46	18 42	0 32	20 58	0 3	9 38	0 45	18 48	1 42	18 3	13 23	23 22	23 23	7 12	15 19	7 32	
T 6	22 40	0s14	5 12	23 59	1 9	22 19	1 5	23 53	0 47	18 39	0 32	20 57	0 3	9 37	0 45	18 48	1 42	18 4	13 24	23 22	23 23	7 15	15 19	7 32	
F 7	22 34	4 58	4 54	23 53	1 17	22 7	1 7	23 51	0 47	18 35	0 32	20 55	0 3	9 36	0 45	18 48	1 42	18 4	13 24	23 22	23 23	7 18	15 20	7 32	
S 8	22 27	9 31	4 23	23 45	1 23	21 55	1 9	23 48	0 47	18 32	0 32	20 54	0 3	9 35	0 45	18 48	1 42	18 5	13 24	23 22	23 23	7 20	15 20	7 32	
S 9	22 20	13 44	3 41	23 33	1 29	21 42	1 10	23 45	0 48	18 29	0 33	20 53	0 3	9 34	0 45	18 48	1 42	18 5	13 25	23 22	23 23	7 23	15 20	7 32	
M10	22 13	17 27	2 49	23 19	1 35	21 29	1 12	23 42	0 48	18 26	0 33	20 51	0 3	9 33	0 45	18 48	1 42	18 6	13 25	23 22	23 23	7 26	15 21	7 32	
T 11	22 5	20 29	1 49	23 3	1 39	21 15	1 13	23 39	0 49	18 22	0 33	20 50	0 3	9 32	0 45	18 47	1 42	18 6	13 25	23 22	23 23	7 28	15 21	7 32	
W12	21 57	22 36	0 42	22 44	1 43	21 0	1 15	23 36	0 49	18 19	0 33	20 48	0 3	9 31	0 45	18 47	1 42	18 7	13 26	23 22	23 23	7 31	15 21	7 32	
T 13	21 49	23 38	0s28	22 23	1 46	20 44	1 16	23 32	0 50	18 15	0 33	20 47	0 3	9 30	0 45	18 47	1 42	18 7	13 26	23 22	23 23	7 34	15 22	7 32	
F 14	21 40	23 24	1 38	22 0	1 48	20 29	1 17	23 29	0 50	18 12	0 33	20 46	0 3	9 29	0 45	18 47	1 42	18 8	13 26	23 22	23 23	7 37	15 22	7 32	
S 15	21 31	21 51	2 44	21 35	1 49	20 12	1 19	23 25	0 50	18 9	0 33	20 44	0 4	9 28	0 45	18 47	1 42	18 8	13 27	23 22	23 23	7 39	15 22	7 31	
S 16	21 21	19 3	3 42	21 8	1 50	19 55	1 20	23 21	0 51	18 5	0 33	20 43	0 4	9 27	0 45	18 47	1 42	18 9	13 27	23 22	23 23	7 42	15 23	7 31	
M17	21 11	15 8	4 29	20 39	1 50	19 37	1 21	23 16	0 51	18 2	0 33	20 41	0 4	9 26	0 45	18 47	1 42	18 9	13 27	23 22	23 23	7 45	15 23	7 31	
T 18	21 1	10 22	5 0	20 9	1 49	19 19	1 22	23 12	0 52	17 58	0 33	20 40	0 4	9 25	0 45	18 47	1 41	18 10	13 28	23 22	23 23	7 47	15 24	7 31	
W19	20 50	5 1	5 13	19 37	1 48	19 0	1 23	23 7	0 52	17 55	0 33	20 38	0 4	9 23	0 45	18 46	1 41	18 10	13 28	23 22	23 23	7 50	15 24	7 31	
T 20	20 39	0n37	5 8	19 5	1 46	18 41	1 24	23 2	0 53	17 51	0 33	20 37	0 4	9 22	0 45	18 46	1 41	18 11	13 28	23 23	23 23	7 53	15 25	7 31	
F 21	20 28	6 15	4 44	18 31	1 44	18 21	1 25	22 57	0 53	17 48	0 33	20 35	0 4	9 21	0 45	18 46	1 41	18 12	13 28	23 23	23 24	7 55	15 25	7 31	
S 22	20 16	11 34	4 3	17 56	1 40	18 1	1 26	22 52	0 53	17 44	0 33	20 34	0 4	9 20	0 44	18 46	1 41	18 12	13 29	23 23	23 24	7 58	15 25	7 31	
S 23	20 4	16 15	3 6	17 20	1 37	17 40	1 26	22 47	0 54	17 40	0 33	20 32	0 4	9 19	0 44	18 46	1 41	18 13	13 29	23 23	23 24	8 1	15 26	7 30	
M24	19 52	20 0	1 59	16 43	1 33	17 19	1 27	22 41	0 54	17 37	0 33	20 31	0 4	9 17	0 44	18 46	1 41	18 13	13 29	23 22	23 24	8 4	15 26	7 30	
T 25	19 39	22 31	0 45	16 6	1 28	16 57	1 28	22 35	0 55	17 33	0 33	20 30	0 4	9 16	0 44	18 46	1 41	18 14	13 29	23 22	23 24	8 6	15 27	7 30	
W26	19 26	23 39	0n30	15 28	1 23	16 35	1 28	22 29	0 55	17 30	0 33	20 28	0 5	9 15	0 44	18 46	1 41	18 14	13 30	23 22	23 24	8 9	15 27	7 30	
T 27	19 13	23 20	1 43	14 49	1 17	16 13	1 29	22 23	0 55	17 26	0 34	20 27	0 5	9 14	0 44	18 46	1 41	18 15	13 30	23 22	23 24	8 12	15 28	7 30	
F 28	18 59	21 38	2 49	14 10	1 11	15 50	1 29	22 17	0 56	17 22	0 34	20 25	0 5	9 13	0 44	18 46	1 41	18 16	13 30	23 23	23 24	8 14	15 28	7 29	
S 29	18 45	18 48	3 44	13 31	1 4	15 26	1 30	22 11	0 56	17 18	0 34	20 24	0 5	9 11	0 44	18 46	1 41	18 16	13 30	23 23	23 24	8 17	15 29	7 29	
S 30	18 31	15 6	4 27	12 52	0 57	15 2	1 30	22 4	0 56	17 15	0 34	20 22	0 5	9 10	0 44	18 46	1 41	18 17	13 31	23 23	23 24	8 20	15 29	7 29	
M31	18n16	10n47	4n55	12n12	0n50	14n38	1n30	21n57	0n57	17n11	0n34	20n20	0n 5	9n 9	0n44	18s46	1n41	18s17	13s31	23n23	23n24	8s22	15s30	7n29	

ASTRODIENST EPHEMERIS for the year 2299

geocentric

AUGUST 2299

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 1	8♂49'05	26♂30	1♂37	26♂5	26♂4	14♂4	29♂27	8♂19	1°R23	15°R 5	2°R12	0♂53	3♂5	10°R52	T 1
W 2	20 41 57	9°46'27	8♂40	3° 7	27°19	26°43	14°17	29°34	8°22	1♂23	15°R 4	2♂7	0°50	3°11	10♂49	W 2
T 3	20 45 54	10°43'49	20°40	4°35	28°32	27°23	14°31	29°42	8°25	1°22	15° 3	2° 3	0°47	3°18	10°46	T 3
F 4	20 49 50	11°41'12	2♂34	6° 1	29°46	28° 2	14°44	29°50	8°29	1°22	15° 2	2° 1	0°44	3°25	10°43	F 4
S 5	20 53 47	12°38'35	14°25	7°25	0♂59	28°41	14°57	29°58	8°32	1°22	15° 1	2°D 1	0°40	3°31	10°40	S 5
S 6	20 57 43	13°35'59	26°20	8°48	2°13	29°20	15°10	0♂5	8°36	1°22	15° 0	2° 2	0°37	3°38	10°37	S 6
M 7	21 1 40	14°33'23	8♂23	10° 8	3°26	29°59	15°23	0°13	8°39	1°21	14°59	2° 3	0°34	3°45	10°34	M 7
T 8	21 5 36	15°30'48	20°38	11°26	4°40	0♂39	15°37	0°20	8°43	1°21	14°58	2° 4	0°31	3°52	10°31	T 8
W 9	21 9 33	16°28'14	3♂11	12°43	5°53	1°18	15°50	0°28	8°46	1°21	14°56	2°R 5	0°28	3°58	10°28	W 9
T 10	21 13 30	17°25'41	16° 3	13°57	7° 7	1°57	16° 3	0°36	8°50	1°21	14°55	2° 4	0°24	4° 5	10°26	T 10
F 11	21 17 26	18°23'08	29°18	15° 9	8°20	2°36	16°16	0°43	8°54	1°21	14°54	2° 1	0°21	4°12	10°23	F 11
S 12	21 21 23	19°20'36	12♂56	16°18	9°34	3°15	16°30	0°51	8°57	1°21	14°53	1°56	0°18	4°18	10°20	S 12
S 13	21 25 19	20°18'05	26°53	17°26	10°47	3°54	16°43	0°58	9° 1	1°D21	14°52	1°50	0°15	4°25	10°18	S 13
M14	21 29 16	21°15'36	11♂6	18°31	12° 1	4°33	16°56	1° 6	9° 4	1°21	14°51	1°42	0°12	4°32	10°15	M14
T 15	21 33 12	22°13'07	25°31	19°33	13°14	5°11	17° 9	1°13	9° 8	1°21	14°50	1°34	0° 9	4°38	10°13	T 15
W16	21 37 9	23°10'39	10°Y 0	20°33	14°28	5°50	17°23	1°21	9°12	1°21	14°49	1°28	0° 5	4°45	10°10	W16
T 17	21 41 5	24° 8'13	24°28	21°30	15°41	6°29	17°36	1°28	9°15	1°21	14°48	1°22	0° 2	4°52	10° 8	T 17
F 18	21 45 2	25° 5'48	8♂50	22°24	16°54	7° 8	17°49	1°35	9°19	1°21	14°46	1°19	29II59	4°59	10° 6	F 18
S 19	21 48 59	26° 3'25	23° 3	23°15	18° 8	7°47	18° 2	1°43	9°23	1°21	14°45	1°D18	29°56	5° 5	10° 4	S 19
S 20	21 52 55	27° 1'04	7II 5	24° 3	19°21	8°25	18°15	1°50	9°26	1°22	14°44	1°18	29°53	5°12	10° 2	S 20
M21	21 56 52	27°58'44	20°55	24°47	20°34	9° 4	18°28	1°57	9°30	1°22	14°43	1°19	29°49	5°19	10° 0	M21
T 22	22 0 48	28°56'25	4♂34	25°28	21°48	9°43	18°42	2° 5	9°34	1°22	14°42	1°R19	29°46	5°25	9°58	T 22
W23	22 4 45	29°54'08	18° 2	26° 5	23° 1	10°21	18°55	2°12	9°37	1°22	14°40	1°18	29°43	5°32	9°56	W23
T 24	22 8 41	0♂51'53	1♂18	26°38	24°15	11° 0	19° 8	2°19	9°41	1°23	14°39	1°15	29°40	5°39	9°54	T 24
F 25	22 12 38	1°49'39	14°23	27° 7	25°28	11°39	19°21	2°26	9°45	1°23	14°38	1° 8	29°37	5°45	9°53	F 25
S 26	22 16 34	2°47'26	27°16	27°31	26°41	12°17	19°34	2°33	9°49	1°24	14°37	1° 0	29°34	5°52	9°51	S 26
S 27	22 20 31	3°45'15	9♂57	27°51	27°55	12°56	19°47	2°40	9°52	1°24	14°36	0°49	29°30	5°59	9°49	S 27
M28	22 24 28	4°43'05	22°26	28° 6	29° 8	13°34	20° 0	2°47	9°56	1°24	14°34	0°38	29°27	6° 6	9°48	M28
T 29	22 28 24	5°40'56	4♂42	28°16	0♂21	14°13	20°13	2°54	10° 0	1°25	14°33	0°26	29°24	6°12	9°47	T 29
W30	22 32 21	6°38'49	16°48	28°R20	1°34	14°51	20°26	3° 1	10° 4	1°25	14°32	0°16	29°21	6°19	9°45	W30
T 31	22 36 17	7♂36'43	28♂45	28♂18	2♂48	15♂29	20♂39	3♂8	10♂7	1♂26	14♂31	0♂8	29II18	6♂26	9♂44	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n 2	6n 7	5n 9	11n33	0n42	14n13	1n30	21n50	0n57	17n 7	0n34	20n19	0n 5	9n 7	0n44	18s46
W 2	17 46	1 18	5 8	10 53	0 34	13 48	1 30	21 43	0 58	17 4	0 34	20 17	0 5	9 6	0 44	18 46
T 3	17 31	3s30	4 54	10 13	0 26	13 23	1 30	21 36	0 58	17 0	0 34	20 16	0 5	9 5	0 44	18 46
F 4	17 15	8 9	4 28	9 34	0 17	12 57	1 30	21 28	0 58	16 56	0 34	20 14	0 5	9 4	0 44	18 46
S 5	16 59	12 29	3 50	8 54	0 8	12 31	1 30	21 21	0 59	16 52	0 34	20 13	0 5	9 2	0 44	18 46
S 6	16 43	16 21	3 2	8 15	0s 1	12 4	1 30	21 13	0 59	16 48	0 34	20 11	0 6	9 1	0 44	18 46
M 7	16 26	19 37	2 5	7 36	0 10	11 38	1 30	21 5	0 59	16 44	0 34	20 10	0 6	9 0	0 44	18 46
T 8	16 10	22 3	1 2	6 57	0 20	11 11	1 30	20 57	1 0	16 41	0 34	20 8	0 6	8 58	0 44	18 46
W 9	15 52	23 28	0s 6	6 19	0 30	10 43	1 29	20 49	1 0	16 37	0 34	20 7	0 6	8 57	0 44	18 46
T 10	15 35	23 40	1 15	5 42	0 40	10 16	1 29	20 41	1 1	16 33	0 35	20 5	0 6	8 56	0 44	18 46
F 11	15 18	22 34	2 22	5 4	0 50	9 48	1 28	20 32	1 1	16 29	0 35	20 4	0 6	8 54	0 44	18 46
S 12	15 0	20 8	3 22	4 28	1 0	9 19	1 28	20 24	1 1	16 25	0 35	20 2	0 6	8 53	0 44	18 46
S 13	14 42	16 28	4 12	3 52	1 11	8 51	1 27	20 15	1 2	16 21	0 35	20 1	0 6	8 52	0 44	18 46
M14	14 23	11 49	4 47	3 17	1 22	8 22	1 26	20 6	1 2	16 17	0 35	19 59	0 6	8 50	0 44	18 46
T 15	14 5	6 27	5 5	2 43	1 32	7 54	1 25	19 57	1 2	16 13	0 35	19 57	0 6	8 49	0 44	18 46
W16	13 46	0 42	5 3	2 9	1 43	7 25	1 24	19 48	1 3	16 9	0 35	19 56	0 6	8 47	0 44	18 46
T 17	13 27	5n 5	4 42	1 37	1 54	6 55	1 25	19 38	1 3	16 6	0 35	19 54	0 7	8 46	0 44	18 46
F 18	13 8	10 34	4 4	1 6	2 5	6 26	1 23	19 29	1 3	16 2	0 35	19 53	0 7	8 45	0 44	18 46
S 19	12 49	15 26	3 10	0 36	2 16	5 56	1 22	19 19	1 4	15 58	0 35	19 51	0 7	8 43	0 44	18 46
S 20	12 29	19 23	2 6	0 7	2 27	5 26	1 20	19 9	1 4	15 54	0 35	19 50	0 7	8 42	0 44	18 46
M21	12 9	22 10	0 55	0s21	2 38	4 57	1 19	19 0	1 4	15 50	0 35	19 48	0 7	8 40	0 44	18 46
T 22	11 49	23 37	0n17	0 47	2 48	4 27	1 18	18 50	1 5	15 46	0 36	19 47	0 7	8 39	0 44	18 47
W23	11 29	23 39	1 28	1 11	2 59	3 56	1 17	18 39	1 5	15 42	0 36	19 45	0 7	8 38	0 44	18 47
T 24	11 9	22 19	2 33	1 34	3 9	3 26	1 15	18 29	1 5	15 38	0 36	19 44	0 7	8 36	0 44	18 47
F 25	10 48	19 49	3 29	1 54	3 19	2 56	1 14	18 19	1 6	15 34	0 36	19 42	0 7	8 35	0 44	18 47
S 26	10 28	16 21	4 13	2 13	3 29	2 25	1 12	18 8	1 6	15 30	0 36	19 41	0 7	8 33	0 44	18 47
S 27	10 7	12 11	4 43	2 29	3 38	1 55	1 11	17 58	1 6	15 26	0 36	19 39	0 7	8 32	0 44	18 47
M28	9 46	7 35	5 0	2 43	3 47	1 24	1 9	17 47	1 6	15 22	0 36	19 38	0 8	8 31	0 44	18 47
T 29	9 25	2 45	5 2	2 55	3 56	0 53	1 7	17 36	1 7	15 18	0 36	19 36	0 8	8 29	0 44	18 48
W30	9 3	2s 7	4 50	3 4	4 3	0 22	1 5	17 25	1 7	15 14	0 36	19 35	0 8	8 28	0 44	18 48
T 31	8n42	6s51	4n26	3s 9	4s10	0s 8	1n 3	17n14	1n 7	15n10	0n36	19n33	0n 8	8n26	0n44	18s48

Julian Day Number = 2560964.5, Delta T = 296.26 sec
 Ecliptic obliquity = 23°24'01, Nutation = - 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 28°55'40, Lahiri = 28°02'40

ASTRODIENST EPHEMERIS for the year 2299

geocentric

SEPTEMBER 2299

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 14	8 ^h 34'38	10 ^m 36	28°R11	4 ^h 1	16 ^h 8	20 ^h 52	3 ^h 15	10 ^h 11	1 ^h 27	14°R29	0°R 2	29 ^h 15	6 ^m 32	9°R43	F 1	
S 2	22 44 10	9°32'35	22°25	27 ^h 58	5°14	16°46	21° 5	3°22	10°15	1°27	14 ^h 28	29 ^h 15	29°11	6°39	9 ^h 42	S 2	
S 3	22 48 7	10°30'33	4 ^h 18	27°39	6°27	17°24	21°17	3°29	10°19	1°28	14°27	29°57	29° 8	6°46	9°41	S 3	
M 4	22 52 3	11°28'32	16°18	27°13	7°40	18° 3	21°30	3°35	10°23	1°29	14°26	29°D57	29° 5	6°52	9°40	M 4	
T 5	22 56 0	12°26'33	28°32	26°42	8°54	18°41	21°43	3°42	10°26	1°29	14°24	29°R57	29° 2	6°59	9°39	T 5	
W 6	22 59 57	13°24'35	11 ^h 3	26° 5	10° 7	19°19	21°56	3°49	10°30	1°30	14°23	29°56	28°59	7° 6	9°39	W 6	
T 7	23 3 53	14°22'38	24° 0	25°22	11°20	19°57	22° 9	3°55	10°34	1°31	14°22	29°54	28°55	7°12	9°38	T 7	
F 8	23 7 50	15°20'43	7 ^h 22	24°35	12°33	20°36	22°21	4° 2	10°38	1°32	14°20	29°50	28°52	7°19	9°37	F 8	
S 9	23 11 46	16°18'49	21°12	23°43	13°46	21°14	22°34	4° 8	10°41	1°32	14°19	29°43	28°49	7°26	9°37	S 9	
S 10	23 15 43	17°16'56	5 ^h 27	22°48	14°59	21°52	22°46	4°15	10°45	1°33	14°18	29°33	28°46	7°33	9°37	S 10	
M11	23 19 39	18°15'06	20° 2	21°50	16°12	22°30	22°59	4°21	10°49	1°34	14°17	29°22	28°43	7°39	9°36	M11	
T 12	23 23 36	19°13'16	4 ^h 52	20°51	17°25	23° 8	23°12	4°27	10°53	1°35	14°15	29°11	28°40	7°46	9°36	T 12	
W13	23 27 32	20°11'29	19°47	19°52	18°38	23°46	23°24	4°34	10°56	1°36	14°14	29° 1	28°36	7°53	9°36	W13	
T 14	23 31 29	21° 9'44	4 ^h 38	18°54	19°51	24°24	23°36	4°40	11° 0	1°37	14°13	28°53	28°33	7°59	9°D36	T 14	
F 15	23 35 26	22° 8'01	19°18	17°58	21° 4	25° 2	23°49	4°46	11° 4	1°38	14°12	28°48	28°30	8° 6	9°36	F 15	
S 16	23 39 22	23° 6'19	3 ^h 41	17° 7	22°17	25°40	24° 1	4°52	11° 7	1°39	14°10	28°45	28°27	8°13	9°36	S 16	
S 17	23 43 19	24° 4'40	17°46	16°21	23°30	26°18	24°13	4°58	11°11	1°40	14° 9	28°44	28°24	8°19	9°36	S 17	
M18	23 47 15	25° 3'03	1 ^h 31	15°41	24°43	26°56	24°26	5° 4	11°15	1°41	14° 8	28°44	28°21	8°26	9°37	M18	
T 19	23 51 12	26° 1'29	14°59	15° 8	25°56	27°34	24°38	5°10	11°19	1°43	14° 7	28°44	28°17	8°33	9°37	T 19	
W20	23 55 8	26°59'56	28°11	14°44	27° 9	28°11	24°50	5°16	11°22	1°44	14° 5	28°41	28°14	8°39	9°37	W20	
T 21	23 59 5	27°58'25	11 ^h 8	14°28	28°22	28°49	25° 2	5°21	11°26	1°45	14° 4	28°37	28°11	8°46	9°38	T 21	
F 22	0 3 1	28°56'57	23°55	14°D22	29°34	29°27	25°14	5°27	11°30	1°46	14° 3	28°29	28° 8	8°53	9°39	F 22	
S 23	0 6 58	29°55'30	6 ^h 30	14°25	0 ^m 47	0 ^m 5	25°26	5°33	11°33	1°47	14° 2	28°18	28° 5	9° 0	9°39	S 23	
S 24	0 10 55	0 ^h 54'06	18°55	14°38	2° 0	0°43	25°38	5°38	11°37	1°49	14° 1	28° 6	28° 1	9° 6	9°40	S 24	
M25	0 14 51	1°52'43	1 ^h 10	15° 0	3°13	1°20	25°50	5°44	11°40	1°50	13°59	27°52	27°58	9°13	9°41	M25	
T 26	0 18 48	2°51'22	13°17	15°32	4°25	1°58	26° 2	5°49	11°44	1°51	13°58	27°38	27°55	9°20	9°42	T 26	
W27	0 22 44	3°50'03	25°16	16°12	5°38	2°36	26°13	5°54	11°48	1°53	13°57	27°25	27°52	9°26	9°43	W27	
T 28	0 26 41	4°48'46	7 ^m 9	17° 1	6°51	3°13	26°25	6° 0	11°51	1°54	13°56	27°14	27°49	9°33	9°44	T 28	
F 29	0 30 37	5°47'31	18°57	17°58	8° 4	3°51	26°37	6° 5	11°55	1°56	13°55	27° 6	27°46	9°40	9°46	F 29	
S 30	0 34 34	6 ^h 46'18	0 ^h 45	19 ^m 2	9 ^m 16	4 ^m 28	26 ^h 48	6 ^h 10	11 ^m 58	1 ^h 57	13 ^h 54	27 ^h 11	27 ^h 42	9 ^m 46	9 ^h 47	S 30	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	8n20	11s19	3n51	3s12	4s16	0s39	1n 2	17n 3	1n 8	15n 6	0n37	19n32	0n 8	8n25	0n44	18s48	1n39	18s36	13s36	23n24	23n24	9s48	15s48	7n15			
S 2	7 59	15 21	3 5	3 11	4 21	1 10	1 0	16 52	1 8	15 2	0 37	19 30	0 8	8 24	0 44	18 48	1 39	18 37	13 36	23 24	23 24	9 51	15 49	7 15			
S 3	7 37	18 48	2 12	3 7	4 25	1 41	0 57	16 41	1 8	14 58	0 37	19 29	0 8	8 22	0 44	18 48	1 39	18 37	13 36	23 24	23 24	9 54	15 50	7 14			
M 4	7 15	21 30	1 12	3 0	4 28	2 12	0 55	16 29	1 9	14 54	0 37	19 27	0 8	8 21	0 44	18 49	1 39	18 38	13 36	23 24	23 24	9 56	15 50	7 14			
T 5	6 53	23 16	0 8	2 48	4 29	2 42	0 53	16 18	1 9	14 50	0 37	19 26	0 8	8 19	0 44	18 49	1 39	18 39	13 36	23 24	23 24	9 59	15 51	7 13			
W 6	6 31	23 55	0s59	2 33	4 29	3 13	0 51	16 6	1 9	14 46	0 37	19 24	0 8	8 18	0 44	18 49	1 39	18 39	13 36	23 24	23 24	10 2	15 51	7 13			
T 7	6 8	23 18	2 4	2 15	4 27	3 44	0 49	15 54	1 9	14 42	0 37	19 23	0 8	8 16	0 44	18 49	1 39	18 40	13 36	23 24	23 24	10 4	15 52	7 12			
F 8	5 46	21 22	3 4	1 52	4 23	4 14	0 46	15 42	1 10	14 38	0 37	19 21	0 9	8 15	0 44	18 49	1 39	18 40	13 36	23 24	23 24	10 7	15 53	7 12			
S 9	5 24	18 8	3 56	1 27	4 17	4 45	0 44	15 30	1 10	14 34	0 37	19 20	0 9	8 14	0 44	18 50	1 38	18 41	13 36	23 24	23 24	10 10	15 53	7 11			
S 10	5 1	13 46	4 35	0 58	4 9	5 15	0 42	15 18	1 10	14 30	0 38	19 18	0 9	8 12	0 44	18 50	1 38	18 41	13 36	23 24	23 24	10 12	15 54	7 11			
M11	4 38	8 29	4 57	0 26	4 0	5 46	0 39	15 6	1 11	14 26	0 38	19 17	0 9	8 11	0 44	18 50	1 38	18 42	13 36	23 24	23 24	10 15	15 54	7 10			
T 12	4 16	2 39	4 59	0n 7	3 48	6 16	0 37	14 54	1 11	14 22	0 38	19 16	0 9	8 9	0 44	18 50	1 38	18 42	13 36	23 24	23 24	10 18	15 55	7 9			
W13	3 53	3n23	4 41	0 43	3 35	6 46	0 34	14 42	1 11	14 18	0 38	19 14	0 9	8 8	0 44	18 51	1 38	18 43	13 36	23 24	23 24	10 20	15 55	7 9			
T 14	3 30	9 12	4 5	1 19	3 20	7 16	0 32	14 29	1 11	14 14	0 38	19 13	0 9	8 7	0 44	18 51	1 38	18 43	13 36	23 24	23 24	10 23	15 56	7 8			
F 15	3 7	14 26	3 12	1 55	3 4	7 46	0 29	14 17	1 12	14 10	0 38	19 12	0 9	8 5	0 44	18 51	1 38	18 44	13 36	23 24	23 24	10 26	15 57	7 8			
S 16	2 44	18 45	2 8	2 32	2 46	8 15	0 26	14 4	1 12	14 6	0 38	19 10	0 9	8 4	0 44	18 51	1 38	18 44	13 36	23 24	23 23	10 28	15 57	7 7			
S 17	2 21	21 53	0 58	3 7	2 28	8 45	0 23	13 52	1 12	14 2	0 38	19 9	0 9	8 2	0 44	18 52	1 38	18 45	13 36	23 24	23 23	10 31	15 58	7 7			
M18	1 58	23 38	0n15	3 40	2 8	9 14	0 21	13 39	1 12	13 58	0 39	19 7	0 10	8 1	0 44	18 52	1 38	18 45	13 36	23 24	23 23	10 33	15 58	7 6			
T 19	1 35	23 58	1 25	4 11	1 49	9 43	0 18	13 26	1 13	13 54	0 39	19 6	0 10	8 0	0 44	18 52	1 38	18 46	13 36	23 24	23 23	10 36	15 59	7 6			
W20	1 11	22 55	2 29	4 38	1 29	10 12	0 15	13 13	1 13	13 50	0 39	19 5	0 10	7 58	0 44	18 53	1 38	18 46	13 36	23 24	23 23	10 39	15 59	7 5			
T 21	0 48	20 40	3 24	5 2	1 9	10 41	0 12	13 1	1 13	13 46	0 39	19 4	0 10	7 57	0 44	18 53	1 38	18 46	13 36	23 24	23 23	10 41	16 0	7 4			
F 22	0 25	17 25	4 8	5 23	0 50	11 10	0 9	12 48	1 14	13 42	0 39	19 2	0 10	7 55	0 44	18 53	1 38	18 47	13 36	23 24	23 23	10 44	16 0	7 4			
S 23	0 2	13 25	4 39	5 39	0 31	11 38	0 6	12 35	1 14	13 38	0 39	19 1	0 10	7 54	0 44	18 53	1 38	18 47	13 36	23 23	23 23	10 47	16 1	7 3			
S 24	0s21	8 55	4 56	5 50	0 13	12 6	0 3	12 21	1 14	13 34	0 39	19 0	0 10	7 53	0 44	18 54	1 38	18 48	13 36	23 23	23 23	10 49	16 1	7 3			
M25	0 45	4 7	4 59	5 57	0n 3	12 34	0 0	12 8	1 14	13 30	0 39	18 59	0 10	7 51	0 44	18 54	1 38	18 48	13 36	23 23	23 23	10 52	16 2	7 2			
T 26	1 8	0s48	4 49	6 0	0 19	13 1	0s 3	11 55	1 15	13 27	0 40	18 57	0 10	7 50	0 44	18 54	1 38	18 48	13 36	23 23	23 23	10 55	16 2	7 2			
W27	1 31	5 38	4 26	5 58	0 34	13 28	0 6	11 42	1 15	13 23	0 40	18 56	0 11	7 49	0 44	18 55	1 38	18 49	13 36	23 23	23 23	10 57	16 3	7 1			
T 28	1 55	10 14	3 51	5 51	0 48	13 55	0 9	11 28	1 15	13 19	0 40	18 55	0 11	7 47	0 44	18 55	1 37	18 49	13 36	23 22	23 23	11 0	16 3	7 0			
F 29	2 18	14 26	3 7	5 40	1 0	14 22	0 12	11 15	1 15	13 15	0 40	18 54	0 11	7 46	0 44	18 55	1 37	18 50	13 36	23 22	23 23	11 3	16 3	7 0			
S 30	2s41	18s 5	2n14	5n25	1n11	14s48	0s15	11n 2	1n15	13n11	0n40	18n53	0n11	7n45	0n44	18s56	1n37	18s50	13s36	23n22	23n23	11s 5	16s 4	6n59			

ASTRODIENST EPHEMERIS for the year 2299

geocentric

OCTOBER 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 30	7♌45'06	12♊36	20♏13	10♍29	5♈6	27♏0	6♏15	12♏2	1♏59	13°R52	26°R58	27♏39	9♍53	9♏48	S 1
M 2	0 42 27	8°43'57	24°34	21°30	11°41	5°43	27°11	6°20	12°5	2°0	13°K51	26°D58	27°36	10°0	9°50	M 2
T 3	0 46 23	9°42'49	6♌45	22°52	12°54	6°21	27°22	6°25	12°9	2°2	13°50	26°R58	27°33	10°6	9°52	T 3
W 4	0 50 20	10°41'42	19°14	24°19	14°7	6°58	27°34	6°30	12°12	2°3	13°49	26♏58	27°30	10°13	9°53	W 4
T 5	0 54 17	11°40'38	2♌6	25°49	15°19	7°36	27°45	6°34	12°15	2°5	13°48	26°56	27°26	10°20	9°55	T 5
F 6	0 58 13	12°39'35	15°26	27°24	16°32	8°13	27°56	6°39	12°19	2°6	13°47	26°52	27°23	10°26	9°57	F 6
S 7	1 2 10	13°38'34	29°15	29°1	17°44	8°51	28°7	6°44	12°22	2°8	13°46	26°46	27°20	10°33	9°59	S 7
S 8	1 6 6	14°37'34	13♌34	0♌40	18°57	9°28	28°18	6°48	12°26	2°10	13°45	26°37	27°17	10°40	10°1	S 8
M 9	1 10 3	15°36'36	28°19	2°22	20°9	10°5	28°29	6°52	12°29	2°11	13°44	26°27	27°14	10°47	10°3	M 9
T 10	1 13 59	16°35'41	13°V22	4°4	21°21	10°42	28°40	6°57	12°32	2°13	13°43	26°17	27°11	10°53	10°5	T 10
W11	1 17 56	17°34'47	28°35	5°48	22°34	11°20	28°50	7°1	12°35	2°15	13°42	26°7	27°7	11°0	10°7	W11
T 12	1 21 52	18°33'55	13♌47	7°33	23°46	11°57	29°1	7°5	12°39	2°16	13°41	25°59	27°4	11°7	10°10	T 12
F 13	1 25 49	19°33'06	28°46	9°18	24°58	12°34	29°11	7°9	12°42	2°18	13°40	25°54	27°1	11°13	10°12	F 13
S 14	1 29 46	20°32'19	13♏27	11°4	26°10	13°11	29°22	7°13	12°45	2°20	13°39	25°52	26°58	11°20	10°14	S 14
S 15	1 33 42	21°31'34	27°44	12°50	27°23	13°48	29°32	7°17	12°48	2°22	13°38	25°D51	26°55	11°27	10°17	S 15
M16	1 37 39	22°30'52	11♌36	14°36	28°35	14°25	29°42	7°20	12°51	2°23	13°37	25°52	26°52	11°33	10°20	M16
T 17	1 41 35	23°30'11	25°4	16°21	29°47	15°3	29°53	7°24	12°54	2°25	13°36	25°R52	26°48	11°40	10°22	T 17
W18	1 45 32	24°29'34	8♏11	18°6	0♏59	15°40	0♏3	7°28	12°57	2°27	13°35	25°51	26°45	11°47	10°25	W18
T 19	1 49 28	25°28'58	21°0	19°51	2°11	16°17	0°13	7°31	13°0	2°29	13°34	25°48	26°42	11°53	10°28	T 19
F 20	1 53 25	26°28'25	3♏34	21°36	3°23	16°54	0°22	7°35	13°3	2°31	13°33	25°42	26°39	12°0	10°31	F 20
S 21	1 57 21	27°27'54	15°56	23°20	4°35	17°31	0°32	7°38	13°6	2°33	13°32	25°35	26°36	12°7	10°34	S 21
S 22	2 1 18	28°27'25	28°7	25°3	5°47	18°8	0°42	7°41	13°9	2°35	13°32	25°25	26°32	12°13	10°37	S 22
M23	2 5 15	29°26'58	10♌11	26°46	6°59	18°44	0°51	7°44	13°12	2°37	13°31	25°14	26°29	12°20	10°40	M23
T 24	2 9 11	0♏26'33	22°9	28°29	8°11	19°21	1°1	7°47	13°15	2°39	13°30	25°3	26°26	12°27	10°44	T 24
W25	2 13 8	1°26'10	4♏2	0♏10	9°23	19°58	1°10	7°50	13°18	2°41	13°29	24°53	26°23	12°33	10°47	W25
T 26	2 17 4	2°25'50	15°52	1°52	10°35	20°35	1°19	7°53	13°21	2°43	13°28	24°44	26°20	12°40	10°50	T 26
F 27	2 21 1	3°25'31	27°40	3°32	11°46	21°12	1°29	7°55	13°24	2°45	13°28	24°38	26°17	12°47	10°54	F 27
S 28	2 24 57	4°25'14	9♏29	5°12	12°58	21°49	1°38	7°58	13°26	2°47	13°27	24°35	26°13	12°54	10°57	S 28
S 29	2 28 54	5°24'59	21°22	6°51	14°10	22°25	1°46	8°0	13°29	2°49	13°26	24°D33	26°10	13°0	11°1	S 29
M30	2 32 50	6°24'46	3♏22	8°30	15°22	23°2	1°55	8°3	13°32	2°51	13°26	24°33	26°7	13°7	11°5	M30
T 31	2 36 47	7♏24'34	15♏33	10♏8	16♏33	23♏39	2♏4	8♏5	13♏34	2♏53	13♏25	24♏35	26♏4	13♏14	11♏8	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	3s 4	21s 1	1n15	5n 6	1n20	15s14	0s18	10n48	1n16	13n 8	0n40	18n51	0n11	7n43	0n44	18s56
M 2	3 27	23 5	0 13	4 44	1 29	15 39	0 21	10 34	1 16	13 4	0 40	18 50	0 11	7 42	0 44	18 56
T 3	3 51	24 5	0s52	4 18	1 36	16 4	0 24	10 21	1 16	13 0	0 41	18 49	0 11	7 41	0 44	18 57
W 4	4 14	23 56	1 55	3 49	1 42	16 29	0 28	10 7	1 16	12 56	0 41	18 48	0 11	7 39	0 44	18 57
T 5	4 37	22 30	2 55	3 17	1 46	16 54	0 31	9 54	1 17	12 53	0 41	18 47	0 11	7 38	0 44	18 57
F 6	5 0	19 48	3 47	2 43	1 50	17 18	0 34	9 40	1 17	12 49	0 41	18 46	0 12	7 37	0 44	18 58
S 7	5 23	15 54	4 28	2 7	1 53	17 41	0 37	9 26	1 17	12 45	0 41	18 45	0 12	7 36	0 44	18 58
S 8	5 45	10 59	4 54	1 29	1 54	18 4	0 40	9 12	1 17	12 42	0 41	18 44	0 12	7 34	0 44	18 58
M 9	6 8	5 17	5 2	0 49	1 55	18 27	0 44	8 58	1 18	12 38	0 42	18 43	0 12	7 33	0 44	18 59
T 10	6 31	0n50	4 49	0 8	1 55	18 49	0 47	8 44	1 18	12 34	0 42	18 42	0 12	7 32	0 44	18 59
W11	6 53	6 58	4 16	0s33	1 54	19 11	0 50	8 30	1 18	12 31	0 42	18 41	0 12	7 31	0 44	19 0
T 12	7 16	12 42	3 24	1 16	1 53	19 32	0 53	8 16	1 18	12 27	0 42	18 40	0 12	7 29	0 45	19 0
F 13	7 38	17 36	2 19	1 59	1 50	19 53	0 56	8 2	1 18	12 24	0 42	18 39	0 12	7 28	0 45	19 0
S 14	8 1	21 17	1 6	2 43	1 48	20 14	0 59	7 48	1 19	12 20	0 42	18 38	0 12	7 27	0 45	19 1
S 15	8 23	23 33	0n10	3 27	1 44	20 33	1 3	7 34	1 19	12 17	0 43	18 37	0 13	7 26	0 45	19 1
M16	8 45	24 16	1 23	4 12	1 41	20 53	1 6	7 20	1 19	12 13	0 43	18 37	0 13	7 25	0 45	19 1
T 17	9 7	23 32	2 29	4 56	1 36	21 11	1 9	7 6	1 19	12 10	0 43	18 36	0 13	7 23	0 45	19 2
W18	9 29	21 30	3 26	5 40	1 32	21 30	1 12	6 52	1 19	12 7	0 43	18 35	0 13	7 22	0 45	19 2
T 19	9 50	18 26	4 11	6 25	1 27	21 47	1 15	6 38	1 20	12 3	0 43	18 34	0 13	7 21	0 45	19 3
F 20	10 12	14 34	4 42	7 8	1 22	22 4	1 18	6 24	1 20	12 0	0 43	18 33	0 13	7 20	0 45	19 3
S 21	10 33	10 9	5 0	7 52	1 16	22 21	1 21	6 9	1 20	11 57	0 44	18 33	0 13	7 19	0 45	19 3
S 22	10 55	5 24	5 4	8 35	1 11	22 37	1 24	5 55	1 20	11 53	0 44	18 32	0 13	7 18	0 45	19 4
M23	11 16	0 29	4 54	9 18	1 5	22 52	1 27	5 41	1 20	11 50	0 44	18 31	0 13	7 17	0 45	19 4
T 24	11 37	4s24	4 32	10 0	0 59	23 7	1 30	5 27	1 21	11 47	0 44	18 31	0 14	7 16	0 45	19 5
W25	11 57	9 7	3 57	10 42	0 52	23 21	1 33	5 12	1 21	11 44	0 44	18 30	0 14	7 15	0 45	19 5
T 26	12 18	13 29	3 13	11 23	0 46	23 34	1 36	4 58	1 21	11 41	0 44	18 30	0 14	7 14	0 45	19 6
F 27	12 38	17 20	2 20	12 3	0 40	23 47	1 38	4 44	1 21	11 38	0 45	18 29	0 14	7 13	0 45	19 6
S 28	12 58	20 31	1 20	12 43	0 33	23 59	1 41	4 29	1 21	11 35	0 45	18 28	0 14	7 12	0 45	19 6
S 29	13 18	22 50	0 17	13 22	0 26	24 11	1 44	4 15	1 22	11 32	0 45	18 28	0 14	7 11	0 45	19 7
M30	13 38	24 9	0s47	14 0	0 20	24 22	1 46	4 1	1 22	11 29	0 45	18 27	0 14	7 10	0 45	19 7
T 31	13s58	24s20	1s51	14s38	0n13	24s32	1s49	3n46	1n22	11n26	0n45	18n27	0n14	7n 9	0n45	19s 8

Julian Day Number = 2561025.5, Delta T = 296.55 sec
 Ecliptic obliquity = 23°24'02, Nutation = - 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 28°55'48, Lahiri = 28°02'49

ASTRODIENST EPHEMERIS for the year 2299
geocentric

NOVEMBER 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 44	8♈24°25'	28♈0	11♈46	17♈45	24♈15	2♈12	8♈7	13♈37	2♈55	13°R24	24♈36	26♈1	13♈20	11♈12	W 1
T 2	2 44 40	9°24'17"	10♈48	13°23'	18°56'	24°52'	2°21'	8°9'	13°39'	2°57'	13°R24	24°R36	25°58'	13°27'	11°16'	T 2
F 3	2 48 37	10°24'10"	24°1	15°0'	20°8'	25°28'	2°29'	8°11'	13°42'	2°59'	13°23'	24°35'	25°54'	13°34'	11°20'	F 3
S 4	2 52 33	11°24'05"	7♈41	16°36'	21°19'	26°5'	2°37'	8°13'	13°44'	3°1'	13°23'	24°33'	25°51'	13°40'	11°24'	S 4
S 5	2 56 30	12°24'02"	21°51'	18°12'	22°31'	26°41'	2°45'	8°15'	13°47'	3°3'	13°22'	24°28'	25°48'	13°47'	11°28'	S 5
M 6	3 0 26	13°24'00"	6♈28	19°47'	23°42'	27°18'	2°53'	8°16'	13°49'	3°5'	13°22'	24°22'	25°45'	13°54'	11°32'	M 6
T 7	3 4 23	14°24'00"	21°28'	21°21'	24°53'	27°54'	3°1'	8°18'	13°51'	3°8'	13°21'	24°16'	25°42'	14°0'	11°36'	T 7
W 8	3 8 19	15°24'01"	6♈42	22°56'	26°4'	28°30'	3°9'	8°19'	13°53'	3°10'	13°21'	24°10'	25°38'	14°7'	11°41'	W 8
T 9	3 12 16	16°24'05"	22°0	24°30'	27°15'	29°7'	3°16'	8°20'	13°56'	3°12'	13°20'	24°6'	25°35'	14°14'	11°45'	T 9
F 10	3 16 13	17°24'10"	7♈12	26°3'	28°26'	29°43'	3°23'	8°22'	13°58'	3°14'	13°20'	24°3'	25°32'	14°20'	11°49'	F 10
S 11	3 20 9	18°24'18"	22°6'	27°36'	29°37'	0♈19	3°31'	8°23'	14°0'	3°16'	13°19'	24°D 2	25°29'	14°27'	11°54'	S 11
S 12	3 24 6	19°24'27"	6♈38	29°9'	0♈48	0°56'	3°38'	8°24'	14°2'	3°19'	13°19'	24°2'	25°26'	14°34'	11°58'	S 12
M13	3 28 2	20°24'38"	20°44'	0♈41	1°59'	1°32'	3°45'	8°24'	14°4'	3°21'	13°19'	24°4'	25°23'	14°40'	12°3'	M13
T 14	3 31 59	21°24'52"	4♈22	2°13'	3°10'	2°8'	3°52'	8°25'	14°6'	3°23'	13°18'	24°5'	25°19'	14°47'	12°7'	T 14
W15	3 35 55	22°25'07"	17°34'	3°45'	4°21'	2°44'	3°58'	8°26'	14°8'	3°25'	13°18'	24°R 6	25°16'	14°54'	12°12'	W15
T 16	3 39 52	23°25'24"	0♈23	5°16'	5°31'	3°20'	4°5'	8°26'	14°10'	3°27'	13°18'	24°6'	25°13'	15°0'	12°17'	T 16
F 17	3 43 48	24°25'44"	12°54'	6°47'	6°42'	3°56'	4°11'	8°27'	14°12'	3°30'	13°17'	24°5'	25°10'	15°7'	12°21'	F 17
S 18	3 47 45	25°26'05"	25°10'	8°17'	7°52'	4°32'	4°17'	8°27'	14°13'	3°32'	13°17'	24°2'	25°7'	15°14'	12°26'	S 18
S 19	3 51 42	26°26'28"	7♈14	9°47'	9°3'	5°8'	4°23'	8°27'	14°15'	3°34'	13°17'	23°58'	25°4'	15°20'	12°31'	S 19
M20	3 55 38	27°26'53"	19°11'	11°17'	10°13'	5°44'	4°29'	8°R27	14°17'	3°36'	13°17'	23°53'	25°0'	15°27'	12°36'	M20
T 21	3 59 35	28°27'20"	1♈2	12°47'	11°23'	6°20'	4°35'	8°27'	14°19'	3°39'	13°16'	23°48'	24°57'	15°34'	12°41'	T 21
W22	4 3 31	29°27'48"	12°52'	14°16'	12°33'	6°56'	4°41'	8°27'	14°20'	3°41'	13°16'	23°44'	24°54'	15°40'	12°46'	W22
T 23	4 7 28	0♈28'18"	24°41'	15°45'	13°43'	7°32'	4°46'	8°27'	14°22'	3°43'	13°16'	23°40'	24°51'	15°47'	12°51'	T 23
F 24	4 11 24	1°28'50"	6♈32	17°13'	14°53'	8°7'	4°51'	8°26'	14°23'	3°45'	13°16'	23°38'	24°48'	15°54'	12°56'	F 24
S 25	4 15 21	2°29'23"	18°27'	18°41'	16°3'	8°43'	4°56'	8°26'	14°25'	3°48'	13°16'	23°D37	24°44'	16°1'	13°1'	S 25
S 26	4 19 17	3°29'58"	0♈28	20°8'	17°13'	9°19'	5°1'	8°25'	14°26'	3°50'	13°16'	23°37'	24°41'	16°7'	13°7'	S 26
M27	4 23 14	4°30'34"	12°36'	21°35'	18°23'	9°54'	5°6'	8°24'	14°27'	3°52'	13°D16	23°38'	24°38'	16°14'	13°12'	M27
T 28	4 27 11	5°31'11"	24°55'	23°1'	19°32'	10°30'	5°11'	8°23'	14°29'	3°54'	13°16'	23°39'	24°35'	16°21'	13°17'	T 28
W29	4 31 7	6°31'50"	7♈28	24°26'	20°42'	11°6'	5°15'	8°22'	14°30'	3°57'	13°16'	23°41'	24°32'	16°27'	13°22'	W29
T 30	4 35 4	7♈32'29"	20°18'	25°51'	21°51'	11°41'	5°19'	8°21'	14°31'	3°59'	13°R16	23°R42	24°R29	16°34'	13°28'	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s17	23s19	2s51	15s15	0n 6	24s41	1s52	3n32	1n22	11n23	0n46	18n27	0n15	7n 8	0n45	19s 8	1n36	18s56	13s30	23n17	23n20	12s29	16s15	6n43			
T 2	14 36	21 5	3 44	15 51	0s 1	24 50	1 54	3 18	1 22	11 20	0 46	18 26	0 15	7 7	0 45	19 8	1 36	18 56	13 30	23 17	23 20	12 32	16 15	6 42			
F 3	14 55	17 42	4 27	16 26	0 8	24 58	1 57	3 4	1 22	11 17	0 46	18 26	0 15	7 6	0 45	19 9	1 36	18 56	13 30	23 17	23 20	12 34	16 15	6 42			
S 4	15 14	13 15	4 57	17 0	0 14	25 6	1 59	2 49	1 23	11 15	0 46	18 25	0 15	7 5	0 45	19 9	1 36	18 56	13 29	23 17	23 20	12 37	16 15	6 41			
S 5	15 32	7 58	5 10	17 33	0 21	25 13	2 1	2 35	1 23	11 12	0 46	18 25	0 15	7 4	0 45	19 10	1 36	18 56	13 29	23 17	23 20	12 39	16 15	6 41			
M 6	15 50	2 5	5 3	18 6	0 28	25 19	2 4	2 21	1 23	11 9	0 47	18 25	0 15	7 3	0 45	19 10	1 36	18 56	13 29	23 17	23 20	12 42	16 15	6 40			
T 7	16 8	4n 5	4 36	18 37	0 34	25 24	2 6	2 6	1 23	11 7	0 47	18 24	0 15	7 2	0 45	19 11	1 36	18 56	13 29	23 17	23 20	12 45	16 15	6 40			
W 8	16 26	10 7	3 49	19 8	0 41	25 29	2 8	1 52	1 23	11 4	0 47	18 24	0 15	7 1	0 45	19 11	1 36	18 56	13 28	23 16	23 20	12 47	16 15	6 40			
T 9	16 43	15 34	2 46	19 38	0 47	25 32	2 10	1 38	1 23	11 1	0 47	18 24	0 16	7 1	0 45	19 11	1 36	18 56	13 28	23 16	23 20	12 50	16 15	6 39			
F 10	17 0	19 59	1 31	20 6	0 54	25 36	2 12	1 23	1 24	10 59	0 47	18 24	0 16	7 0	0 45	19 12	1 36	18 56	13 28	23 16	23 20	12 52	16 15	6 39			
S 11	17 17	22 59	0 10	20 34	1 0	25 38	2 14	1 9	1 24	10 57	0 48	18 24	0 16	6 59	0 45	19 12	1 36	18 56	13 28	23 16	23 19	12 55	16 15	6 38			
S 12	17 33	24 22	1n 8	21 1	1 6	25 40	2 16	0 55	1 24	10 54	0 48	18 24	0 16	6 58	0 46	19 13	1 36	18 56	13 27	23 16	23 19	12 57	16 15	6 38			
M13	17 49	24 7	2 21	21 26	1 12	25 41	2 18	0 41	1 24	10 52	0 48	18 23	0 16	6 58	0 46	19 13	1 36	18 56	13 27	23 16	23 19	13 0	16 15	6 38			
T 14	18 5	22 25	3 23	21 51	1 18	25 41	2 19	0 26	1 24	10 50	0 48	18 23	0 16	6 57	0 46	19 14	1 36	18 56	13 27	23 16	23 19	13 3	16 15	6 37			
W15	18 21	19 32	4 12	22 14	1 24	25 41	2 21	0 12	1 24	10 47	0 49	18 23	0 16	6 56	0 46	19 14	1 36	18 56	13 27	23 16	23 19	13 5	16 15	6 37			
T 16	18 36	15 47	4 47	22 37	1 30	25 40	2 23	0s 2	1 24	10 45	0 49	18 23	0 16	6 55	0 46	19 14	1 36	18 56	13 26	23 16	23 19	13 8	16 15	6 36			
F 17	18 51	11 26	5 7	22 58	1 35	25 38	2 24	0 16	1 25	10 43	0 49	18 23	0 17	6 55	0 46	19 15	1 36	18 55	13 26	23 16	23 19	13 10	16 15	6 36			
S 18	19 5	6 43	5 13	23 18	1 40	25 35	2 25	0 30	1 25	10 41	0 49	18 23	0 17	6 54	0 46	19 15	1 36	18 55	13 26	23 16	23 19	13 13	16 15	6 36			
S 19	19 20	1 48	5 5	23 37	1 46	25 32	2 27	0 44	1 25	10 39	0 49	18 24	0 17	6 54	0 46	19 16	1 36	18 55	13 25	23 16	23 19	13 15	16 15	6 35			
M20	19 33	3s 7	4 43	23 55	1 50	25 28	2 28	0 58	1 25	10 37	0 50	18 24	0 17	6 53	0 46	19 16	1 36	18 55	13 25	23 16	23 18	13 18	16 15	6 35			
T 21	19 47	7 54	4 10	24 12	1 55	25 23	2 29	1 12	1 25	10 35	0 50	18 24	0 17	6 52	0 46	19 17	1 36	18 55	13 25	23 15	23 18	13 21	16 15	6 35			
W22	20 0	12 24	3 26	24 27	1 59	25 18	2 30	1 26	1 25	10 33	0 50	18 24	0 17	6 52	0 46	19 17	1 36	18 54	13 25	23 15	23 18	13 23	16 15	6 34			
T 23	20 13	16 26	2 33	24 41	2 4	25 12	2 31	1 40	1 25	10 32	0 50	18 24	0 17	6 51	0 46	19 17	1 36	18 54	13 24	23 15	23 18	13 26	16 15	6 34			
F 24	20 25	19 50	1 33	24 54	2 8	25 5	2 31	1 54	1 26	10 30	0 51	18 24	0 18	6 51	0 46	19 18	1 36	18 54	13 24	23 15	23 18	13 28	16 14	6 34			
S 25	20 37	22 26	0 28	25 6	2 11	24 57	2 32	2 8	1 26	10 28	0 51	18 25	0 18	6 50	0 46	19 18	1 36	18 54	13 24	23 15	23 18	13 31	16 14	6 33			
S 26	20 49	24 2	0s38	25 16	2 14	24 49	2 33	2 22	1 26	10 27	0 51	18 25	0 18	6 50	0 46	19 19	1 36	18 54	13 23	23 15	23 18	13 33	16 14	6 33			
M27	21 0	24 31	1 43	25 25	2 17	24 40	2 33	2 36	1 26	10 25	0 51	18 25	0 18	6 49	0 46	19 19	1 36	18 53	13 23	23 15	23 18	13 36	16 14	6 33			
T 28	21 11	23 49	2 45	25 33	2 20	24 31	2 34	2 50	1 26	10 24	0 52	18 26	0 18	6 49	0 46	19 20	1 36	18 53	13 23	23 15	23 17	13 38	16 14	6 33			
W29	21 22	21 54	3 40	25 39	2 22	24 21	2 34	3 4	1 26	10 22	0 52	18 26	0 18	6 48	0 46	19 20	1 36	18 53	13 23	23 15	23 17	13 41	16 13	6 32			
T 30	21s32	18s53	4s25	25s44	2s24	24s10	2s34	3s17	1n26	10n21	0n52	18n26	0n18	6n48	0n46	19s20	1n36	18s52	13s22	23n15	23n17	13s43	16s13	6n32			

ASTRODIENST EPHEMERIS for the year 2299
geocentric

DECEMBER 2299

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 39 0	8♂33'10	3♂28	27♂15	23♂0	12♂16	5♂23	8°R20	14♂32	4♂1	13♂16	23°R43	24♂25	16♂41	13♂33	F 1
S 2	4 42 57	9°33'52	17° 0	28°37	24° 9	12°52	5°27	8♂19	14°33	4° 3	13°16	23♂43	24°22	16°47	13°39	S 2
S 3	4 46 53	10°34'34	0♂56	29°59	25°18	13°27	5°31	8°17	14°34	4° 6	13°16	23°42	24°19	16°54	13°44	S 3
M 4	4 50 50	11°35'18	15°16	1♂19	26°27	14° 2	5°35	8°16	14°35	4° 8	13°17	23°41	24°16	17° 1	13°50	M 4
T 5	4 54 46	12°36'03	29°57	2°38	27°36	14°38	5°38	8°14	14°36	4°10	13°17	23°39	24°13	17° 7	13°55	T 5
W 6	4 58 43	13°36'48	14♂54	3°55	28°44	15°13	5°41	8°13	14°37	4°12	13°17	23°38	24° 9	17°14	14° 1	W 6
T 7	5 2 40	14°37'35	29°59	5° 9	29°53	15°48	5°44	8°11	14°38	4°15	13°17	23°37	24° 6	17°21	14° 6	T 7
F 8	5 6 36	15°38'23	15♂5	6°22	1♂1	16°23	5°47	8° 9	14°38	4°17	13°18	23°37	24° 3	17°27	14°12	F 8
S 9	5 10 33	16°39'12	0♂1	7°32	2° 9	16°58	5°50	8° 7	14°39	4°19	13°18	23°D37	24° 0	17°34	14°18	S 9
S 10	5 14 29	17°40'03	14°39	8°39	3°17	17°33	5°52	8° 5	14°40	4°21	13°18	23°37	23°57	17°41	14°23	S 10
M 11	5 18 26	18°40'54	28°54	9°42	4°24	18° 8	5°54	8° 2	14°40	4°23	13°18	23°37	23°54	17°47	14°29	M 11
T 12	5 22 22	19°41'47	12♂43	10°41	5°32	18°43	5°56	8° 0	14°41	4°26	13°19	23°38	23°50	17°54	14°35	T 12
W 13	5 26 19	20°42'41	26° 5	11°36	6°39	19°18	5°58	7°57	14°41	4°28	13°19	23°38	23°47	18° 1	14°41	W 13
T 14	5 30 15	21°43'36	9♂1	12°25	7°46	19°52	6° 0	7°55	14°42	4°30	13°20	23°38	23°44	18° 7	14°47	T 14
F 15	5 34 12	22°44'32	21°36	13° 8	8°53	20°27	6° 1	7°52	14°42	4°32	13°20	23°R39	23°41	18°14	14°52	F 15
S 16	5 38 9	23°45'29	3♂52	13°44	10° 0	21° 2	6° 3	7°50	14°42	4°34	13°21	23°D39	23°38	18°21	14°58	S 16
S 17	5 42 5	24°46'28	15°55	14°13	11° 7	21°36	6° 4	7°47	14°42	4°36	13°21	23°39	23°35	18°27	15° 4	S 17
M 18	5 46 2	25°47'27	27°49	14°33	12°13	22°11	6° 5	7°44	14°43	4°39	13°22	23°39	23°31	18°34	15°10	M 18
T 19	5 49 58	26°48'28	9♂38	14°43	13°19	22°45	6° 6	7°41	14°43	4°41	13°22	23°39	23°28	18°41	15°16	T 19
W 20	5 53 55	27°49'30	21°26	14°R44	14°25	23°20	6° 6	7°38	14°R43	4°43	13°23	23°40	23°25	18°47	15°22	W 20
T 21	5 57 51	28°50'32	3♂17	14°33	15°31	23°54	6° 6	7°34	14°43	4°45	13°23	23°40	23°22	18°54	15°28	T 21
F 22	6 1 48	29°51'36	15°14	14°11	16°36	24°28	6°R 7	7°31	14°43	4°47	13°24	23°40	23°19	19° 1	15°34	F 22
S 23	6 5 44	0♂52'40	27°18	13°38	17°41	25° 2	6° 6	7°28	14°42	4°49	13°24	23°R40	23°15	19° 7	15°40	S 23
S 24	6 9 41	1°53'45	9♂31	12°52	18°46	25°37	6° 6	7°24	14°42	4°51	13°25	23°40	23°12	19°14	15°46	S 24
M 25	6 13 38	2°54'50	21°56	11°57	19°51	26°11	6° 6	7°21	14°42	4°53	13°26	23°39	23° 9	19°21	15°52	M 25
T 26	6 17 34	3°55'56	4♂32	10°51	20°55	26°45	6° 5	7°17	14°42	4°55	13°27	23°38	23° 6	19°27	15°58	T 26
W 27	6 21 31	4°57'03	17°21	9°38	21°59	27°19	6° 4	7°13	14°41	4°57	13°27	23°36	23° 3	19°34	16° 4	W 27
T 28	6 25 27	5°58'09	0♂24	8°18	23° 3	27°52	6° 3	7°10	14°41	4°59	13°28	23°35	23° 0	19°41	16°10	T 28
F 29	6 29 24	6°59'16	13°41	6°56	24° 7	28°26	6° 2	7° 6	14°41	5° 1	13°29	23°33	22°56	19°47	16°16	F 29
S 30	6 33 20	8° 0'22	27°15	5°34	25°10	29° 0	6° 1	7° 2	14°40	5° 3	13°30	23°32	22°53	19°54	16°23	S 30
S 31	6 37 17	9♂1'29	11°Y 4	4♂14	26♂13	29♂33	5♂59	6♂58	14♂39	5♂5	13♂30	23°D32	22♂50	20♂1	16♂29	S 31

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	21s42	14s50	4s57	25s48	2s26	23s58	2s34	3s31	1n26	10n20	0n52	18n27	0n18	6n47	0n46	19s21	1n36	18s52	13s22	23n15	23n17	13s46	16s13	6n32	
S 2	21 51	9 57	5 15	25 50	2 26	23 46	2 34	3 45	1 27	10 19	0 52	18 27	0 19	6 47	0 46	19 21	1 36	18 52	13 22	23 15	23 17	13 49	16 13	6 31	
S 3	22 0	4 26	5 14	25 51	2 27	23 33	2 34	3 58	1 27	10 17	0 53	18 28	0 19	6 47	0 46	19 22	1 36	18 51	13 21	23 15	23 17	13 51	16 12	6 31	
M 4	22 8	1n28	4 55	25 50	2 27	23 20	2 33	4 12	1 27	10 16	0 53	18 28	0 19	6 46	0 46	19 22	1 36	18 51	13 21	23 15	23 17	13 54	16 12	6 31	
T 5	22 16	7 27	4 16	25 49	2 26	23 6	2 33	4 25	1 27	10 15	0 53	18 29	0 19	6 46	0 46	19 22	1 36	18 51	13 21	23 15	23 16	13 56	16 12	6 31	
W 6	22 24	13 7	3 19	25 45	2 25	22 52	2 32	4 39	1 27	10 14	0 53	18 29	0 19	6 46	0 47	19 23	1 36	18 50	13 21	23 15	23 16	13 59	16 11	6 30	
T 7	22 31	18 2	2 7	25 41	2 23	22 37	2 31	4 52	1 27	10 14	0 54	18 30	0 19	6 46	0 47	19 23	1 36	18 50	13 20	23 15	23 16	14 1	16 11	6 30	
F 8	22 38	21 47	0 47	25 35	2 20	22 21	2 31	5 5	1 27	10 13	0 54	18 31	0 19	6 45	0 47	19 24	1 36	18 50	13 20	23 15	23 16	14 4	16 11	6 30	
S 9	22 44	24 0	0n36	25 28	2 17	22 5	2 30	5 19	1 27	10 12	0 54	18 31	0 19	6 45	0 47	19 24	1 36	18 49	13 20	23 15	23 16	14 6	16 10	6 30	
S 10	22 50	24 29	1 54	25 19	2 12	21 48	2 28	5 32	1 27	10 11	0 54	18 32	0 20	6 45	0 47	19 24	1 36	18 49	13 19	23 15	23 16	14 9	16 10	6 30	
M 11	22 55	23 21	3 4	25 10	2 7	21 31	2 27	5 45	1 27	10 11	0 55	18 33	0 20	6 45	0 47	19 25	1 36	18 49	13 19	23 15	23 16	14 11	16 10	6 29	
T 12	23 0	20 48	4 0	24 59	2 1	21 13	2 26	5 58	1 27	10 10	0 55	18 34	0 20	6 45	0 47	19 25	1 36	18 48	13 19	23 15	23 15	14 14	16 9	6 29	
W 13	23 5	17 13	4 42	24 47	1 54	20 54	2 24	6 11	1 28	10 10	0 55	18 34	0 20	6 44	0 47	19 26	1 36	18 48	13 19	23 15	23 15	14 16	16 9	6 29	
T 14	23 9	12 55	5 8	24 35	1 46	20 36	2 23	6 24	1 28	10 9	0 55	18 35	0 20	6 44	0 47	19 26	1 36	18 47	13 18	23 15	23 15	14 19	16 8	6 29	
F 15	23 12	8 11	5 18	24 21	1 36	20 16	2 21	6 37	1 28	10 9	0 56	18 36	0 20	6 44	0 47	19 26	1 36	18 47	13 18	23 15	23 15	14 21	16 8	6 29	
S 16	23 15	3 15	5 13	24 7	1 26	19 56	2 19	6 50	1 28	10 9	0 56	18 37	0 20	6 44	0 47	19 27	1 36	18 46	13 18	23 15	23 15	14 24	16 7	6 29	
S 17	23 18	1s43	4 54	23 52	1 14	19 36	2 17	7 3	1 28	10 9	0 56	18 38	0 21	6 44	0 47	19 27	1 36	18 46	13 17	23 15	23 15	14 26	16 7	6 28	
M 18	23 20	6 35	4 23	23 37	1 1	19 15	2 15	7 16	1 28	10 9	0 57	18 38	0 21	6 44	0 47	19 28	1 36	18 46	13 17	23 15	23 15	14 29	16 6	6 28	
T 19	23 22	11 11	3 41	23 21	0 46	18 54	2 12	7 29	1 28	10 9	0 57	18 39	0 21	6 44	0 47	19 28	1 36	18 45	13 17	23 15	23 14	14 31	16 6	6 28	
W 20	23 23	15 22	2 50	23 6	0 31	18 33	2 10	7 41	1 28	10 9	0 57	18 40	0 21	6 44	0 47	19 28	1 36	18 45	13 17	23 15	23 14	14 34	16 5	6 28	
T 21	23 24	18 58	1 51	22 50	0 14	18 11	2 7	7 54	1 28	10 9	0 57	18 41	0 21	6 44	0 47	19 29	1 36	18 44	13 16	23 15	23 14	14 36	16 5	6 28	
F 22	23 24	21 49	0 47	22 34	0n 4	17 49	2 4	8 6	1 28	10 9	0 58	18 42	0 21	6 44	0 47	19 29	1 36	18 44	13 16	23 15	23 14	14 39	16 4	6 28	
S 23	23 24	23 42	0s20	22 19	0 23	17 26	2 1	8 19	1 28	10 9	0 58	18 43	0 21	6 44	0 47	19 29	1 36	18 43	13 16	23 15	23 14	14 41	16 4	6 28	
S 24	23 23	24 30	1 27	22 4	0 43	17 3	1 58	8 31	1 28	10 9	0 58	18 44	0 21	6 44	0 47	19 30	1 36	18 43	13 15	23 15	23 14	14 44	16 3	6 28	
M 25	23 22	24 6	2 30	21 49	1 3	16 39	1 55	8 43	1 28	10 10	0 58	18 45	0 22	6 45	0 47	19 30	1 36	18 42	13 15	23 15	23 13	14 46	16 2	6 28	
T 26	23 21	22 28	3 28	21 35	1 23	16 16	1 51	8 55	1 28	10 10	0 59	18 46	0 22	6 45	0 47	19 30	1 36	18 42	13 15	23 15	23 13	14 49	16 2	6 28	
W 27	23 18	19 40	4 16	21 21	1 42	15 51	1 48	9 7	1 28	10 11	0 59	18 47	0 22	6 45	0 47	19 31	1 36	18 41	13 15	23 15	23 13	14 51	16 1	6 28	
T 28	23 16	15 51	4 51	21 8	2 0	15 27	1 44	9 19	1 28	10 12	0 59	18 48	0 22	6 45	0 48	19 31	1 36	18 41	13 14	23 15	23 13	14 54	16 1	6 27	
F 29	23 13	11 12	5 12	20 57	2 17	15 2	1 40	9 31	1 28	10 12	0 59	18 50	0 22	6 45	0 48	19 31	1 36	18 40	13 14	23 15	23 13	14 56	16 0	6 27	
S 30	23 10	5 56	5 16	20 46	2 31	14 37	1 36	9 43	1 28	10 13	1 0	18 51	0 22	6 46	0 48	19 32	1 36	18 39	13 14	23 15	23 13	14 59	15 59	6 27	
S 31	23s 6	0s16	5s 2	20s36	2n44	14s12	1s32	9s55	1n28	10n14	1n 0	18n52	0n22	6n46	0n48	19s32	1n36	18s39	13s14	23n15	23n12	15s 1	15s59	6n27	