



Astrodienst Ephemeris Tables for the year 2142

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 2142

geocentric

JANUARY 2142

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 42 18	10°24'34	20°59	4°R52	5°7 8	27°42	15°9	7°10	29°36	17°18	12°R48	19°R40	18°38	11°9	4°R15	M 1
T 2	6 46 14	11°25'43	3°4	3°39	5°27	28°15	15°14	7°15	29°37	17°20	12°47	19°37	18°35	11°15	4°11	T 2
W 3	6 50 11	12°26'52	15°21	2°34	5°48	28°48	15°19	7°20	29°39	17°22	12°46	19°34	18°32	11°22	4°7	W 3
T 4	6 54 7	13°28'01	27°51	1°37	6°10	29°20	15°24	7°26	29°41	17°24	12°45	19°32	18°28	11°29	4°3	T 4
F 5	6 58 4	14°29'10	10°40	0°50	6°35	29°53	15°29	7°31	29°42	17°26	12°44	19°D31	18°25	11°35	3°59	F 5
S 6	7 2 0	15°30'19	23°49	0°14	7°1	0°25	15°34	7°36	29°44	17°28	12°43	19°31	18°22	11°42	3°55	S 6
S 7	7 5 57	16°31'27	7°23	29°48	7°29	0°57	15°40	7°42	29°45	17°30	12°42	19°32	18°19	11°49	3°51	S 7
M 8	7 9 53	17°32'35	21°23	29°32	7°58	1°30	15°46	7°47	29°47	17°32	12°41	19°34	18°16	11°55	3°47	M 8
T 9	7 13 50	18°33'43	5°48	29°D25	8°29	2°2	15°52	7°53	29°48	17°34	12°40	19°35	18°13	12°2	3°43	T 9
W10	7 17 47	19°34'50	20°37	29°28	9°2	2°34	15°58	7°58	29°50	17°36	12°39	19°R36	18°9	12°9	3°39	W10
T 11	7 21 43	20°35'58	5°43	29°38	9°36	3°5	16°4	8°4	29°51	17°38	12°38	19°35	18°6	12°15	3°35	T 11
F 12	7 25 40	21°37'05	20°58	29°57	10°11	3°37	16°11	8°10	29°52	17°40	12°37	19°32	18°3	12°22	3°30	F 12
S 13	7 29 36	22°38'11	6°13	0°23	10°48	4°9	16°17	8°16	29°53	17°42	12°36	19°28	18°0	12°28	3°26	S 13
S 14	7 33 33	23°39'18	21°16	0°55	11°26	4°40	16°24	8°21	29°55	17°44	12°36	19°23	17°57	12°35	3°22	S 14
M15	7 37 29	24°40'24	5°59	1°32	12°6	5°12	16°31	8°27	29°56	17°46	12°35	19°18	17°54	12°42	3°18	M15
T 16	7 41 26	25°41'30	20°16	2°15	12°46	5°43	16°38	8°33	29°57	17°48	12°34	19°13	17°50	12°48	3°13	T 16
W17	7 45 22	26°42'36	4°3	3°2	13°28	6°14	16°45	8°39	29°58	17°50	12°33	19°9	17°47	12°55	3°9	W17
T 18	7 49 19	27°43'41	17°21	3°54	14°11	6°45	16°53	8°46	29°59	17°51	12°32	19°7	17°44	13°2	3°4	T 18
F 19	7 53 16	28°44'47	0°13	4°49	14°55	7°16	17°0	8°52	29°59	17°53	12°32	19°D 6	17°41	13°8	3°0	F 19
S 20	7 57 12	29°45'52	12°43	5°48	15°40	7°47	17°8	8°58	0°0	17°55	12°31	19°7	17°38	13°15	2°56	S 20
S 21	8 1 9	0°46'58	24°54	6°50	16°26	8°18	17°16	9°4	0°1	17°57	12°30	19°8	17°34	13°22	2°51	S 21
M22	8 5 5	1°48'03	6°53	7°54	17°13	8°48	17°24	9°10	0°2	17°59	12°30	19°10	17°31	13°28	2°47	M22
T 23	8 9 2	2°49'07	18°44	9°1	18°1	9°18	17°32	9°17	0°3	18°0	12°29	19°R11	17°28	13°35	2°42	T 23
W24	8 12 58	3°50'11	0°31	10°10	18°49	9°49	17°40	9°23	0°3	18°2	12°28	19°10	17°25	13°42	2°38	W24
T 25	8 16 55	4°51'15	12°18	11°21	19°39	10°19	17°49	9°30	0°4	18°4	12°28	19°7	17°22	13°48	2°34	T 25
F 26	8 20 51	5°52'18	24°7	12°34	20°29	10°49	17°57	9°36	0°4	18°5	12°27	19°2	17°19	13°55	2°29	F 26
S 27	8 24 48	6°53'20	6°1	13°49	21°20	11°18	18°6	9°43	0°5	18°7	12°26	18°54	17°15	14°2	2°25	S 27
S 28	8 28 45	7°54'22	18°1	15°5	22°12	11°48	18°15	9°49	0°5	18°9	12°26	18°45	17°12	14°8	2°20	S 28
M29	8 32 41	8°55'22	0°1	16°23	23°5	12°17	18°24	9°56	0°5	18°10	12°25	18°35	17°9	14°15	2°16	M29
T 30	8 36 38	9°56'22	12°25	17°42	23°58	12°47	18°33	10°3	0°6	18°12	12°25	18°25	17°6	14°22	2°12	T 30
W31	8 40 34	10°57'20	24°52	19°2	24°52	13°16	18°43	10°9	0°6	18°13	12°24	18°16	17°3	14°28	2°10	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 1	10s 7	4n37	20s27	2n53	16s57	4n16	9s12	1n33	4n46	1s18	10s29	1s44	10s47	0n34	21s24
T 2	22 56	5 40	5 2	20 21	3 2	16 56	4 20	9 23	1 33	4 48	1 18	10 27	1 44	10 48	0 34	21 24
W 3	22 50	0 56	5 14	20 16	3 8	16 55	4 24	9 35	1 34	4 50	1 17	10 25	1 44	10 49	0 34	21 24
T 4	22 44	3n55	5 12	20 13	3 11	16 56	4 27	9 46	1 34	4 52	1 17	10 23	1 44	10 49	0 34	21 24
F 5	22 38	8 43	4 54	20 12	3 13	16 57	4 31	9 58	1 34	4 54	1 17	10 21	1 43	10 50	0 34	21 24
S 6	22 31	13 16	4 20	20 13	3 12	16 58	4 33	10 9	1 34	4 57	1 17	10 19	1 43	10 50	0 34	21 24
S 7	22 24	17 18	3 32	20 16	3 9	17 0	4 36	10 20	1 34	4 59	1 16	10 16	1 43	10 51	0 34	21 25
M 8	22 16	20 29	2 29	20 20	3 5	17 3	4 38	10 31	1 34	5 2	1 16	10 14	1 43	10 51	0 34	21 25
T 9	22 8	22 29	1 15	20 25	3 0	17 6	4 39	10 42	1 34	5 4	1 16	10 12	1 43	10 52	0 34	21 25
W10	22 0	23 0	0s 6	20 31	2 54	17 10	4 41	10 53	1 34	5 7	1 15	10 10	1 43	10 52	0 34	21 25
T 11	21 51	21 51	1 27	20 38	2 47	17 14	4 42	11 4	1 34	5 10	1 15	10 8	1 43	10 53	0 34	21 25
F 12	21 41	19 6	2 43	20 46	2 39	17 18	4 43	11 14	1 34	5 12	1 15	10 6	1 43	10 53	0 34	21 25
S 13	21 31	15 1	3 48	20 55	2 30	17 22	4 43	11 25	1 34	5 15	1 15	10 3	1 43	10 53	0 34	21 26
S 14	21 21	10 3	4 35	21 4	2 21	17 27	4 43	11 36	1 34	5 18	1 14	10 1	1 43	10 54	0 34	21 26
M15	21 10	4 36	5 4	21 12	2 12	17 33	4 43	11 46	1 34	5 21	1 14	9 59	1 43	10 54	0 34	21 26
T 16	20 59	0s56	5 12	21 21	2 3	17 38	4 43	11 56	1 34	5 24	1 14	9 57	1 43	10 55	0 34	21 26
W17	20 48	6 13	5 1	21 30	1 53	17 43	4 42	12 7	1 34	5 27	1 14	9 54	1 43	10 55	0 34	21 26
T 18	20 36	11 2	4 35	21 38	1 44	17 49	4 42	12 17	1 34	5 30	1 13	9 52	1 43	10 55	0 34	21 26
F 19	20 24	15 13	3 55	21 46	1 34	17 55	4 41	12 27	1 34	5 33	1 13	9 49	1 43	10 55	0 34	21 26
S 20	20 11	18 35	3 5	21 54	1 24	18 1	4 40	12 37	1 34	5 36	1 13	9 47	1 42	10 56	0 34	21 27
S 21	19 58	21 3	2 8	22 0	1 14	18 7	4 38	12 46	1 34	5 39	1 13	9 45	1 42	10 56	0 34	21 27
M22	19 45	22 32	1 6	22 6	1 5	18 13	4 37	12 56	1 34	5 43	1 12	9 42	1 42	10 56	0 34	21 27
T 23	19 31	22 59	0 2	22 12	0 55	18 19	4 35	13 6	1 34	5 46	1 12	9 40	1 42	10 56	0 34	21 27
W24	19 17	22 24	1n 1	22 16	0 46	18 25	4 33	13 15	1 34	5 49	1 12	9 37	1 42	10 57	0 34	21 27
T 25	19 2	20 50	2 2	22 20	0 37	18 31	4 31	13 25	1 34	5 53	1 12	9 35	1 42	10 57	0 35	21 27
F 26	18 47	18 22	2 57	22 22	0 28	18 37	4 28	13 34	1 34	5 56	1 11	9 32	1 42	10 57	0 35	21 27
S 27	18 32	15 7	3 45	22 24	0 19	18 43	4 26	13 43	1 34	6 0	1 11	9 30	1 42	10 57	0 35	21 27
S 28	18 17	11 14	4 24	22 24	0 10	18 49	4 23	13 52	1 34	6 4	1 11	9 27	1 42	10 57	0 35	21 28
M29	18 1	6 52	4 51	22 24	0 1	18 54	4 21	14 2	1 34	6 7	1 11	9 25	1 42	10 57	0 35	21 28
T 30	17 45	2 12	5 5	22 22	0s 7	19 0	4 18	14 10	1 34	6 11	1 10	9 22	1 42	10 57	0 35	21 28
W31	17s28	2n37	5n 4	22s19	0s15	19s 5	4n15	14s19	1n34	6n15	1s10	9s20	1s42	10s57	0n35	21s28

Julian Day Number = 2503409.5, Delta T = 116.34 sec
 Ecliptic obliquity = 23°25'13, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°43'28, Lahiri = 25°50'29

ASTRODIENST EPHEMERIS for the year 2142

geocentric

FEBRUARY 2142

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 31	11 ⁵⁸ 18	7 ³⁰	20 ³³	25 ⁴⁶	13 ⁴⁵	18 ⁵²	10 ¹⁶	0 ⁶	18 ¹⁵	12 ²⁴	18 ⁹	16 ⁵⁹	14 ³⁵	2 ³	T 1
F 2	8 48 27	12 ⁵⁹ 14	20 ²²	21 ⁴⁶	26 ⁴¹	14 ¹⁴	19 ²	10 ²³	0 ⁶	18 ¹⁷	12 ²³	18 ⁴	16 ⁵⁶	14 ⁴²	1 ⁵⁹	F 2
S 3	8 52 24	14 ⁰ 09	3 ²⁹	23 ⁹	27 ³⁷	14 ⁴²	19 ¹¹	10 ³⁰	0 ⁶	18 ¹⁸	12 ²³	18 ¹	16 ⁵³	14 ⁴⁸	1 ⁵⁴	S 3
S 4	8 56 20	15 ⁰ 03	16 ⁵⁵	24 ³⁴	28 ³³	15 ¹¹	19 ²¹	10 ³⁶	0 ⁶	18 ¹⁹	12 ²²	18 ⁰	16 ⁵⁰	14 ⁵⁵	1 ⁵⁰	S 4
M 5	9 0 17	16 ⁰ 15	0 ¹⁴	25 ⁵⁹	29 ³⁰	15 ³⁹	19 ³¹	10 ⁴³	0 ⁶	18 ²¹	12 ²²	18 ¹	16 ⁴⁷	15 ²	1 ⁴⁶	M 5
T 6	9 4 14	17 ⁰ 24	14 ⁴⁸	27 ²⁶	0 ²⁷	16 ⁷	19 ⁴¹	10 ⁵⁰	0 ⁶	18 ²²	12 ²¹	18 ²	16 ⁴⁴	15 ⁸	1 ⁴¹	T 6
W 7	9 8 10	18 ⁰ 37	29 ¹⁷	28 ⁵³	1 ²⁵	16 ³⁵	19 ⁵¹	10 ⁵⁷	0 ⁶	18 ²⁴	12 ²¹	18 ¹	16 ⁴⁰	15 ¹⁵	1 ³⁷	W 7
T 8	9 12 7	19 ⁰ 42	14 ⁵	0 ²¹	2 ²³	17 ²	20 ²	11 ⁴	0 ⁵	18 ²⁵	12 ²⁰	17 ⁵⁹	16 ³⁷	15 ²²	1 ³³	T 8
F 9	9 16 3	20 ⁰ 51	29 ⁵	1 ⁵⁰	3 ²²	17 ³⁰	20 ¹²	11 ¹¹	0 ⁵	18 ²⁶	12 ²⁰	17 ⁵⁴	16 ³⁴	15 ²⁸	1 ²⁹	F 9
S 10	9 20 0	21 ⁰ 58	14 ⁹	3 ²⁰	4 ²¹	17 ⁵⁷	20 ²³	11 ¹⁸	0 ⁵	18 ²⁸	12 ²⁰	17 ⁴⁶	16 ³¹	15 ³⁵	1 ²⁵	S 10
S 11	9 23 56	22 ⁰ 42	29 ⁹	4 ⁵¹	5 ²⁰	18 ²⁴	20 ³³	11 ²⁵	0 ⁴	18 ²⁹	12 ¹⁹	17 ³⁶	16 ²⁸	15 ⁴²	1 ²¹	S 11
M 12	9 27 53	23 ⁰ 72	13 ⁵⁴	6 ²³	6 ²⁰	18 ⁵¹	20 ⁴⁴	11 ³²	0 ⁴	18 ³⁰	12 ¹⁹	17 ²⁶	16 ²⁵	15 ⁴⁸	1 ¹⁷	M 12
T 13	9 31 49	24 ⁰ 87	28 ¹⁷	7 ⁵⁵	7 ²¹	19 ¹⁸	20 ⁵⁵	11 ³⁹	0 ³	18 ³¹	12 ¹⁹	17 ¹⁵	16 ²¹	15 ⁵⁵	1 ¹³	T 13
W 14	9 35 46	25 ⁰ 84	12 ¹³	9 ²⁹	8 ²¹	19 ⁴⁴	21 ⁶	11 ⁴⁶	0 ³	18 ³²	12 ¹⁹	17 ⁷	16 ¹⁸	16 ²	1 ⁹	W 14
T 15	9 39 43	26 ⁰ 92	25 ³⁹	11 ³	9 ²³	20 ¹⁰	21 ¹⁷	11 ⁵⁴	0 ²	18 ³⁴	12 ¹⁸	17 ⁰	16 ¹⁵	16 ⁸	1 ⁵	T 15
F 16	9 43 39	27 ⁰ 106	8 ³⁷	12 ³⁸	10 ²⁴	20 ³⁶	21 ²⁸	12 ¹	0 ¹	18 ³⁵	12 ¹⁸	16 ⁵⁷	16 ¹²	16 ¹⁵	1 ²	F 16
S 17	9 47 36	28 ⁰ 143	21 ¹⁰	14 ¹⁴	11 ²⁶	21 ²	21 ³⁹	12 ⁸	0 ¹	18 ³⁶	12 ¹⁸	16 ⁵⁵	16 ⁹	16 ²²	0 ⁵⁸	S 17
S 18	9 51 32	29 ⁰ 1119	3 ²⁴	15 ⁵⁰	12 ²⁸	21 ²⁷	21 ⁵⁰	12 ¹⁵	29 ⁵⁹	18 ³⁷	12 ¹⁸	16 ⁵⁵	16 ⁵	16 ²⁸	0 ⁵⁴	S 18
M 19	9 55 29	0 ¹¹ 54	15 ²³	17 ²⁸	13 ³¹	21 ⁵³	22 ²	12 ²²	29 ⁵⁹	18 ³⁸	12 ¹⁸	16 ⁵⁵	16 ²	16 ³⁵	0 ⁵⁰	M 19
T 20	9 59 25	1 ¹² 28	27 ¹⁴	19 ⁶	14 ³⁴	22 ¹⁸	22 ¹³	12 ³⁰	29 ⁵⁸	18 ³⁹	12 ¹⁸	16 ⁵⁵	15 ⁵⁹	16 ⁴²	0 ⁴⁷	T 20
W 21	10 3 22	2 ¹³ 01	9 ³	20 ⁴⁶	15 ³⁷	22 ⁴²	22 ²⁵	12 ³⁷	29 ⁵⁷	18 ⁴⁰	12 ¹⁷	16 ⁵²	15 ⁵⁶	16 ⁴⁸	0 ⁴³	W 21
T 22	10 7 18	3 ¹³ 32	20 ⁴⁸	22 ²⁶	16 ⁴⁰	23 ⁷	22 ³⁷	12 ⁴⁴	29 ⁵⁶	18 ⁴¹	12 ¹⁷	16 ⁴⁸	15 ⁵³	16 ⁵⁵	0 ⁴⁰	T 22
F 23	10 11 15	4 ¹⁴ 02	2 ⁴⁰	24 ⁷	17 ⁴⁴	23 ³¹	22 ⁴⁹	12 ⁵¹	29 ⁵⁵	18 ⁴²	12 ¹⁷	16 ⁴⁰	15 ⁵⁰	17 ²	0 ³⁷	F 23
S 24	10 15 12	5 ¹⁴ 31	14 ⁴⁰	25 ⁴⁹	18 ⁴⁸	23 ⁵⁵	23 ¹	12 ⁵⁹	29 ⁵⁴	18 ⁴²	12 ¹⁷	16 ³⁰	15 ⁴⁶	17 ⁸	0 ³³	S 24
S 25	10 19 8	6 ¹⁴ 58	26 ⁵¹	27 ³²	19 ⁵²	24 ¹⁹	23 ¹³	13 ⁶	29 ⁵³	18 ⁴³	12 ¹⁷	16 ¹⁷	15 ⁴³	17 ¹⁵	0 ³⁰	S 25
M 26	10 23 5	7 ¹⁵ 23	9 ¹²	29 ¹⁶	20 ⁵⁷	24 ⁴²	23 ²⁵	13 ¹³	29 ⁵²	18 ⁴⁴	12 ¹⁷	16 ³	15 ⁴⁰	17 ²²	0 ²⁷	M 26
T 27	10 27 1	8 ¹⁵ 47	21 ⁴⁵	1 ¹	22 ²	25 ⁵	23 ³⁷	13 ²¹	29 ⁵¹	18 ⁴⁵	12 ¹⁷	15 ⁴⁹	15 ³⁷	17 ²⁸	0 ²⁴	T 27
W 28	10 30 58	9 ¹⁶ 09	4 ¹⁹ 29	2 ⁴⁷	23 ³	25 ¹⁸	23 ¹⁹	13 ²⁸	29 ⁴⁹	18 ⁴⁵	12 ¹⁷	15 ³⁶	15 ³⁴	17 ³⁵	0 ²¹	W 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
T 1	17s11	7n24	4n49	22s15	0s23	19s10	4n11	14s28	1n33	6n18	1s10	9s17	1s42	10s57	0n35	21s28	1n26	11n18	11s3	22s54	22s47	20s15	12n12	7s40			
F 2	16 54	11 57	4 19	22 10	0 31	19 15	4 8	14 36	1 33	6 22	1 10	9 15	1 42	10 57	0 35	21 28	1 26	11 18	11 3	22 53	22 47	20 13	12 13	7 40			
S 3	16 37	16 2	3 35	22 4	0 38	19 19	4 5	14 45	1 33	6 26	1 9	9 12	1 42	10 57	0 35	21 28	1 26	11 18	11 2	22 53	22 46	20 12	12 14	7 40			
S 4	16 19	19 25	2 39	21 56	0 45	19 24	4 1	14 53	1 33	6 30	1 9	9 9	1 42	10 57	0 35	21 28	1 26	11 19	11 2	22 53	22 46	20 10	12 15	7 40			
M 5	16 1	21 46	1 32	21 47	0 52	19 28	3 58	15 2	1 33	6 34	1 9	9 7	1 42	10 57	0 35	21 28	1 27	11 19	11 2	22 53	22 46	20 9	12 16	7 40			
T 6	15 43	22 50	0 17	21 37	0 59	19 31	3 54	15 10	1 33	6 38	1 9	9 4	1 42	10 57	0 35	21 28	1 27	11 19	11 2	22 53	22 46	20 7	12 18	7 40			
W 7	15 24	22 25	1s0	21 26	1 5	19 35	3 50	15 18	1 33	6 42	1 9	9 1	1 42	10 57	0 35	21 29	1 27	11 19	11 1	22 53	22 45	20 6	12 19	7 39			
T 8	15 6	20 27	2 14	21 13	1 11	19 38	3 46	15 26	1 33	6 46	1 8	8 59	1 42	10 57	0 35	21 29	1 27	11 19	11 1	22 53	22 45	20 4	12 20	7 39			
F 9	14 47	17 3	3 21	20 59	1 17	19 41	3 42	15 34	1 32	6 50	1 8	8 56	1 42	10 57	0 35	21 29	1 27	11 20	11 1	22 52	22 45	20 3	12 21	7 39			
S 10	14 27	12 31	4 13	20 44	1 23	19 43	3 38	15 41	1 32	6 54	1 8	8 53	1 42	10 57	0 35	21 29	1 27	11 20	11 1	22 51	22 44	20 1	12 22	7 39			
S 11	14 8	7 15	4 48	20 28	1 28	19 45	3 34	15 49	1 32	6 59	1 8	8 51	1 42	10 57	0 35	21 29	1 27	11 20	11 0	22 51	22 44	20 0	12 23	7 38			
M 12	13 48	1 40	5 3	20 10	1 33	19 47	3 30	15 56	1 32	7 3	1 8	8 48	1 42	10 56	0 35	21 29	1 27	11 20	11 0	22 50	22 44	19 58	12 24	7 38			
T 13	13 28	3s52	4 58	19 51	1 38	19 48	3 25	16 4	1 32	7 7	1 7	8 45	1 42	10 56	0 35	21 29	1 27	11 21	11 0	22 49	22 43	19 57	12 25	7 38			
W 14	13 8	9 2	4 35	19 31	1 42	19 49	3 21	16 11	1 32	7 11	1 7	8 43	1 42	10 56	0 35	21 29	1 27	11 21	11 0	22 48	22 43	19 55	12 26	7 37			
T 15	12 47	13 35	3 58	19 9	1 46	19 49	3 17	16 18	1 31	7 16	1 7	8 40	1 42	10 56	0 35	21 29	1 27	11 21	11 0	22 47	22 43	19 54	12 28	7 37			
F 16	12 27	17 21	3 9	18 46	1 50	19 49	3 12	16 25	1 31	7 20	1 7	8 37	1 42	10 55	0 35	21 29	1 27	11 21	11 0	22 47	22 42	19 52	12 29	7 37			
S 17	12 6	20 10	2 12	18 22	1 53	19 49	3 8	16 32	1 31	7 24	1 7	8 34	1 42	10 55	0 35	21 29	1 27	11 21	11 0	22 47	22 42	19 51	12 30	7 36			
S 18	11 45	21 59	1 11	17 56	1 57	19 48	3 3	16 39	1 31	7 29	1 6	8 32	1 42	10 55	0 35	21 29	1 27	11 22	11 0	22 47	22 42	19 49	12 31	7 36			
M 19	11 24	22 45	0 8	17 29	1 59	19 47	2 58	16 46	1 30	7 33	1 6	8 29	1 42	10 55	0 35	21 29	1 27	11 22	11 0	22 47	22 41	19 47	12 32	7 35			
T 20	11 2	22 29	0n55	17 1	2 2	19 45	2 54	16 53	1 30	7 38	1 6	8 26	1 42	10 54	0 35	21 29	1 27	11 22	11 0	22 47	22 41	19 46	12 33	7 35			
W 21	10 41	21 13	1 54	16 31	2 4	19 43	2 49	16 59	1 30	7 42	1 6	8 23	1 42	10 54	0 35	21 29	1 27	11 23	11 0	22 46	22 41	19 44	12 34	7 35			
T 22	10 19	19 1	2 49	16 0	2 5	19 40	2 44	17 5	1 30	7 47	1 6	8 21	1 42	10 54	0 35	21 29	1 27	11 23	11 0	22 46	22 40	19 43	12 36	7 34			
F 23	9 57	16 1	3 37	15 28	2 6	19 37	2 40	17 12	1 29	7 51	1 5	8 18	1 42	10 53	0 35	21 29	1 27	11 23	11 0	22 45	22 40	19 41	12 37	7 34			
S 24	9 35	12 20	4 16	14 54	2 7	19 33	2 35	17 18	1 29	7 56	1 5	8 15	1 42	10 53	0 35	21 29	1 27	11 23	11 0	22 44	22 40	19 40	12 38	7 33			
S 25	9 13	8 7	4 43	14 19	2 8	19 29	2 30	17 24	1 29	8 0	1 5	8 12	1 42	10 52	0 35	21 30	1 27	11 24	11 0	22 43	22 39	19 38	12 39	7 33			
M 26	8 50	3 31	4 58	13 43	2 8	19 24	2 25	17 30	1 28	8 5	1 5	8 9	1 42	10 52	0 35	21 30	1 27	11 24	11 0	22 41	22 39	19 36	12 40	7 32			
T 27	8 28	1n18	4 58	13 5	2 7	19 19	2 20	17 36	1 28	8 10	1 5	8 7	1 42	10 51	0 35	21 30	1 27	11 24	11 0	22 40	22 39	19 35	12 41	7 32			
W 28	8s5	6n8	4n44	12s26	2s6	19s13	2n15	17s42	1n28	8n14	1s5	8s4	1s42	10s51	0n35	21s30	1n27	11n24	10s56	22s39	22s38	19s33	12n42	7s31			

ASTRODIENST EPHEMERIS for the year 2142
geocentric

MARCH 2142

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 34 54	10 ^h 16'29	17 ^h 24	4 ^h 34	24 ^h 12	25 ^h 50	24 ^h 1	13 ^h 35	29 ^h 48	18 ^h 46	12 ^h 18	15 ^h 25	15 ^h 31	17 ^h 42	0 ^h 18	T 1
F 2	10 38 51	11 ^h 16'47	0 ^h 30	6 ^h 22	25 ^h 17	26 ^h 12	24 ^h 14	13 ^h 43	29 ^h 47	18 ^h 47	12 ^h 18	15 ^h 17	15 ^h 27	17 ^h 48	0 ^h 15	F 2
S 3	10 42 47	12 ^h 17'03	13 ^h 48	8 ^h 11	26 ^h 23	26 ^h 34	24 ^h 26	13 ^h 50	29 ^h 45	18 ^h 47	12 ^h 18	15 ^h 12	15 ^h 24	17 ^h 55	0 ^h 12	S 3
S 4	10 46 44	13 ^h 17'18	27 ^h 18	10 ^h 1	27 ^h 29	26 ^h 55	24 ^h 39	13 ^h 57	29 ^h 44	18 ^h 48	12 ^h 18	15 ^h 10	15 ^h 21	18 ^h 2	0 ^h 10	S 4
M 5	10 50 41	14 ^h 17'30	11 ^h 11	11 ^h 52	28 ^h 35	27 ^h 17	24 ^h 51	14 ^h 5	29 ^h 42	18 ^h 49	12 ^h 18	15 ^h 10	15 ^h 18	18 ^h 8	0 ^h 7	M 5
T 6	10 54 37	15 ^h 17'40	24 ^h 58	13 ^h 44	29 ^h 41	27 ^h 37	25 ^h 4	14 ^h 12	29 ^h 41	18 ^h 49	12 ^h 18	15 ^h 10	15 ^h 15	18 ^h 15	0 ^h 4	T 6
W 7	10 58 34	16 ^h 17'49	9 ^h 10	15 ^h 37	0 ^h 47	27 ^h 58	25 ^h 17	14 ^h 19	29 ^h 39	18 ^h 50	12 ^h 18	15 ^h 9	15 ^h 11	18 ^h 22	0 ^h 2	W 7
T 8	11 2 30	17 ^h 17'55	23 ^h 36	17 ^h 31	1 ^h 54	28 ^h 18	25 ^h 30	14 ^h 27	29 ^h 37	18 ^h 50	12 ^h 19	15 ^h 5	15 ^h 8	18 ^h 28	29 ^h 59	T 8
F 9	11 6 27	18 ^h 17'59	8 ^h 11	19 ^h 26	3 ^h 0	28 ^h 37	25 ^h 43	14 ^h 34	29 ^h 36	18 ^h 50	12 ^h 19	14 ^h 59	15 ^h 5	18 ^h 35	29 ^h 57	F 9
S 10	11 10 23	19 ^h 18'00	22 ^h 52	21 ^h 21	4 ^h 7	28 ^h 57	25 ^h 56	14 ^h 41	29 ^h 34	18 ^h 51	12 ^h 19	14 ^h 51	15 ^h 2	18 ^h 42	29 ^h 55	S 10
S 11	11 14 20	20 ^h 18'00	7 ^h 30	23 ^h 17	5 ^h 14	29 ^h 16	26 ^h 9	14 ^h 49	29 ^h 32	18 ^h 51	12 ^h 20	14 ^h 40	14 ^h 59	18 ^h 48	29 ^h 53	S 11
M 12	11 18 16	21 ^h 17'58	22 ^h 0	25 ^h 14	6 ^h 22	29 ^h 34	26 ^h 22	14 ^h 56	29 ^h 30	18 ^h 52	12 ^h 20	14 ^h 28	14 ^h 56	18 ^h 55	29 ^h 51	M 12
T 13	11 22 13	22 ^h 17'54	6 ^h 12	27 ^h 12	7 ^h 29	29 ^h 52	26 ^h 35	15 ^h 3	29 ^h 29	18 ^h 52	12 ^h 20	14 ^h 16	14 ^h 52	19 ^h 2	29 ^h 49	T 13
W 14	11 26 10	23 ^h 17'48	20 ^h 3	29 ^h 10	8 ^h 37	0 ^h 10	26 ^h 48	15 ^h 11	29 ^h 27	18 ^h 52	12 ^h 21	14 ^h 5	14 ^h 49	19 ^h 8	29 ^h 47	W 14
T 15	11 30 6	24 ^h 17'40	3 ^h 28	1 ^h 17	9 ^h 44	0 ^h 27	27 ^h 1	15 ^h 18	29 ^h 25	18 ^h 52	12 ^h 21	13 ^h 57	14 ^h 46	19 ^h 15	29 ^h 46	T 15
F 16	11 34 3	25 ^h 17'31	16 ^h 29	3 ^h 6	10 ^h 52	0 ^h 44	27 ^h 15	15 ^h 25	29 ^h 23	18 ^h 53	12 ^h 21	13 ^h 52	14 ^h 43	19 ^h 22	29 ^h 44	F 16
S 17	11 37 59	26 ^h 17'20	29 ^h 5	5 ^h 3	12 ^h 0	1 ^h 1	27 ^h 28	15 ^h 33	29 ^h 21	18 ^h 53	12 ^h 22	13 ^h 49	14 ^h 40	19 ^h 28	29 ^h 42	S 17
S 18	11 41 56	27 ^h 17'07	11 ^h 22	7 ^h 1	13 ^h 8	1 ^h 17	27 ^h 41	15 ^h 40	29 ^h 19	18 ^h 53	12 ^h 22	13 ^h D49	14 ^h 36	19 ^h 35	29 ^h 41	S 18
M 19	11 45 52	28 ^h 16'53	23 ^h 24	8 ^h 57	14 ^h 16	1 ^h 32	27 ^h 55	15 ^h 47	29 ^h 17	18 ^h 53	12 ^h 23	13 ^h R49	14 ^h 33	19 ^h 42	29 ^h 40	M 19
T 20	11 49 49	29 ^h 16'36	5 ^h 17	10 ^h 53	15 ^h 25	1 ^h 47	28 ^h 8	15 ^h 54	29 ^h 15	18 ^h 53	12 ^h 23	13 ^h 49	14 ^h 30	19 ^h 48	29 ^h 38	T 20
W 21	11 53 45	0 ^h 16'19	17 ^h 6	12 ^h 46	16 ^h 33	2 ^h 2	28 ^h 22	16 ^h 1	29 ^h 13	18 ^h R53	12 ^h 24	13 ^h 47	14 ^h 27	19 ^h 55	29 ^h 37	W 21
T 22	11 57 42	1 ^h 15'59	28 ^h 55	14 ^h 38	17 ^h 42	2 ^h 16	28 ^h 36	16 ^h 9	29 ^h 10	18 ^h 53	12 ^h 24	13 ^h 44	14 ^h 24	20 ^h 2	29 ^h 36	T 22
F 23	12 1 39	2 ^h 15'38	10 ^h 51	16 ^h 28	18 ^h 51	2 ^h 29	28 ^h 49	16 ^h 16	29 ^h 8	18 ^h 53	12 ^h 25	13 ^h 38	14 ^h 21	20 ^h 8	29 ^h 35	F 23
S 24	12 5 35	3 ^h 15'14	22 ^h 57	18 ^h 14	19 ^h 59	2 ^h 42	29 ^h 3	16 ^h 23	29 ^h 6	18 ^h 53	12 ^h 25	13 ^h 29	14 ^h 17	20 ^h 15	29 ^h 34	S 24
S 25	12 9 32	4 ^h 14'49	5 ^h 16	19 ^h 58	21 ^h 8	2 ^h 55	29 ^h 17	16 ^h 30	29 ^h 4	18 ^h 53	12 ^h 26	13 ^h 18	14 ^h 14	20 ^h 22	29 ^h 33	S 25
M 26	12 13 28	5 ^h 14'22	17 ^h 50	21 ^h 37	22 ^h 17	3 ^h 7	29 ^h 30	16 ^h 37	29 ^h 2	18 ^h 53	12 ^h 27	13 ^h 6	14 ^h 11	20 ^h 28	29 ^h 33	M 26
T 27	12 17 25	6 ^h 13'53	0 ^h 13	23 ^h 13	23 ^h 27	3 ^h 18	29 ^h 44	16 ^h 44	28 ^h 59	18 ^h 52	12 ^h 27	12 ^h 54	14 ^h 8	20 ^h 35	29 ^h 32	T 27
W 28	12 21 21	7 ^h 13'23	13 ^h 43	24 ^h 44	24 ^h 36	3 ^h 29	29 ^h 58	16 ^h 51	28 ^h 57	18 ^h 52	12 ^h 28	12 ^h 43	14 ^h 5	20 ^h 42	29 ^h 32	W 28
T 29	12 25 18	8 ^h 12'50	27 ^h 0	26 ^h 9	25 ^h 45	3 ^h 39	0 ^h 12	16 ^h 58	28 ^h 55	18 ^h 52	12 ^h 28	12 ^h 34	14 ^h 2	20 ^h 48	29 ^h 31	T 29
F 30	12 29 14	9 ^h 12'15	10 ^h 29	27 ^h 30	26 ^h 55	3 ^h 49	0 ^h 26	17 ^h 5	28 ^h 52	18 ^h 52	12 ^h 29	12 ^h 27	13 ^h 58	20 ^h 55	29 ^h 31	F 30
S 31	12 33 11	10 ^h 11'37	24 ^h 8	28 ^h 14	28 ^h 4	3 ^h 58	0 ^h 40	17 ^h 12	28 ^h 50	18 ^h 51	12 ^h 30	12 ^h 23	13 ^h 55	21 ^h 2	29 ^h 31	S 31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	7s43	10n45	4n15	11s46	2s 5	19s 7	2n11	17s47	1n27	8n19	1s 4	8s 1	1s42	10s50	0n35	21s30	1n27	11n25	10s56	22s37	22s38	19s32	12n43	7s31	
F 2	7 20	14 57	3 33	11 4	2 3	19 0	2 6	17 53	1 27	8 24	1 4	7 58	1 42	10 50	0 35	21 30	1 28	11 25	10 55	22 37	22 38	19 30	12 44	7 30	
S 3	6 57	18 28	2 38	10 22	2 1	18 53	2 1	17 58	1 26	8 28	1 4	7 56	1 42	10 49	0 35	21 30	1 28	11 25	10 55	22 36	22 37	19 29	12 46	7 30	
S 4	6 34	21 3	1 33	9 38	1 58	18 45	1 56	18 4	1 26	8 33	1 4	7 53	1 42	10 49	0 35	21 30	1 28	11 26	10 55	22 36	22 37	19 27	12 47	7 29	
M 5	6 11	22 26	0 22	8 52	1 55	18 37	1 51	18 9	1 25	8 38	1 4	7 50	1 42	10 48	0 35	21 30	1 28	11 26	10 54	22 36	22 37	19 25	12 48	7 29	
T 6	5 47	22 28	0s52	8 6	1 51	18 28	1 46	18 14	1 25	8 43	1 4	7 47	1 42	10 48	0 35	21 30	1 28	11 26	10 54	22 36	22 36	19 24	12 49	7 28	
W 7	5 24	21 3	2 3	7 18	1 46	18 19	1 41	18 19	1 25	8 47	1 3	7 44	1 42	10 47	0 35	21 30	1 28	11 26	10 54	22 36	22 36	19 22	12 50	7 28	
T 8	5 1	18 16	3 8	6 29	1 41	18 9	1 36	18 24	1 24	8 52	1 3	7 42	1 42	10 47	0 35	21 30	1 28	11 27	10 54	22 35	22 36	19 20	12 51	7 27	
F 9	4 37	14 19	4 1	5 39	1 36	17 59	1 31	18 29	1 23	8 57	1 3	7 39	1 42	10 46	0 35	21 30	1 28	11 27	10 53	22 35	22 35	19 19	12 52	7 26	
S 10	4 14	9 29	4 39	4 48	1 30	17 48	1 27	18 34	1 23	9 2	1 3	7 36	1 43	10 45	0 35	21 30	1 28	11 27	10 53	22 34	22 35	19 17	12 53	7 26	
S 11	3 50	4 8	4 58	3 56	1 23	17 37	1 22	18 38	1 22	9 7	1 3	7 33	1 43	10 45	0 36	21 30	1 28	11 28	10 53	22 32	22 34	19 16	12 54	7 25	
M 12	3 27	1s23	4 58	3 3	1 16	17 26	1 17	18 43	1 22	9 11	1 3	7 30	1 43	10 44	0 36	21 30	1 28	11 28	10 53	22 31	22 34	19 14	12 55	7 25	
T 13	3 3	6 44	4 39	2 10	1 8	17 13	1 12	18 47	1 21	9 16	1 3	7 28	1 43	10 43	0 36	21 30	1 28	11 28	10 52	22 30	22 34	19 12	12 56	7 24	
W 14	2 40	11 36	4 4	1 15	1 0	17 1	1 7	18 51	1 21	9 21	1 2	7 25	1 43	10 43	0 36	21 30	1 28	11 29	10 52	22 28	22 33	19 11	12 57	7 23	
T 15	2 16	15 44	3 16	0 20	0 51	16 47	1 3	18 56	1 20	9 26	1 2	7 22	1 43	10 42	0 36	21 29	1 28	11 29	10 52	22 27	22 33	19 9	12 58	7 23	
F 16	1 52	18 59	2 19	0n35	0 42	16 34	0 58	19 0	1 19	9 31	1 2	7 19	1 43	10 41	0 36	21 29	1 28	11 29	10 52	22 27	22 33	19 7	12 59	7 22	
S 17	1 28	21 12	1 17	1 31	0 32	16 20	0 53	19 4	1 18	9 36	1 2	7 17	1 43	10 41	0 36	21 29	1 28	11 29	10 51	22 26	22 32	19 6	13 0	7 21	
S 18	1 5	22 20	0 13	2 27	0 21	16 5	0 49	19 8	1 18	9 41	1 2	7 14	1 43	10 40	0 36	21 29	1 28	11 30	10 51	22 26	22 32	19 4	13 1	7 21	
M 19	0 41	22 25	0n51	3 23	0 11	15 50	0 44	19 12	1 17	9 46	1 2	7 11	1 43	10 39	0 36	21 29	1 28	11 30	10 51	22 26	22 32	19 2	13 2	7 20	
T 20	0 17	21 28	1 51	4 19	0n 1	15 34	0 40	19 15	1 16	9 51	1 2	7 8	1 43	10 39	0 36	21 29	1 28	11 30	10 50	22 26	22 31	19 1	13 3	7 19	
W 21	0n 6	19 34	2 47	5 14	0 12	15 18	0 35	19 19	1 15	9 56	1 2	7 6	1 43	10 38	0 36	21 29	1 28	11 31	10 50	22 26	22 31	18 59	13 3	7 19	
T 22	0 30	16 51	3 35	6 8	0 24	15 2	0 31	19 23	1 15	10 1	1 1	7 3	1 43	10 37	0 36	21 29	1 28	11 31	10 50	22 26	22 31	18 57	13 4	7 18	
F 23	0 54	13 24	4 15	7 2	0 37	14 45	0 26	19 26	1 14	10 5	1 1	7 0	1 44	10 36	0 36	21 29	1 28	11 31	10 50	22 25	22 30	18 56	13 5	7 17	
S 24	1 18	9 23	4 43	7 54	0 49	14 28	0 22	19 30	1 13	10 10	1 1	6 58	1 44	10 35	0 36	21 29	1 28	11 32	10 49	22 24	22 30	18 54	13 6	7 17	
S 25	1 41	4 56	4 59	8 45	1 1	14 10	0 18	19 33	1 12	10 15	1 1	6 55	1 44	10 35	0 36	21 29	1 29	11 32	10 49	22 23	22 29	18 52	13 7	7 16	
M 26	2 5	0 11	5 1	9 34	1 14	13 52	0 13	19 36	1 11	10 20	1 1	6 52	1 44	10 34	0 36	21 29	1 29	11 32	10 49	22 21	22 29	18 51	13 8	7 15	
T 27	2 28	4n40	4 48	10 21	1 26	13 33	0 9	19 39	1 10	10 25	1 1	6 50	1 44	10 33	0 36	21 29	1 29	11 33	10 49	22 20	22 29	18 49	13 9	7 15	
W 28	2 52	9 24	4 20	11 5	1 38	13 14	0 5	19 42	1 9	10 30	1 1	6 47	1 44	10 32	0 36	21 29	1 29	11 33	10 48	22 18	22 28	18 47	13 9	7 14	
T 29	3 15	13 46	3 37	11 48	1 50	12 55	0 1	19 45	1 8	10 35	1 1	6 44	1 44	10 31	0 36	21 29	1 29	11 33	10 48	22 17	22 28	18 46	13 10	7 13	
F 30	3 39	17 30	2 41	12 27	2 1	12 35	0s 3	19 48	1 7	10 40	1 1	6 42	1 44	10 30	0 36	21 29	1 29	11 34	10 48	22 16	22 28	18 44	13 11	7 12	
S 31	4n 2	20n20	1n36	13n 4	2n12	12s15	0s 7	19s51	1n 6	10n45	1s 0	6s39	1s44	10s30	0n36	21s29	1n29	11n34	10s48	22s16	22s27	18s42	13n12	7s12	

ASTRODIENST EPHEMERIS for the year 2142

geocentric

MAY 2142

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 35 24	10°35'20	16°43	24°R57	4°Y31	2°R56	8° 3	20°H29	27°R32	18°R27	13°II 0	10°A54	12°A17	24°B29	0°L15	T 1
W 2	14 39 21	11°33'40	0°L59	24°Y43	5°42	2°A42	8°17	20°35	27°A29	18°A26	13° 1	10°55	12°13	24°35	0°18	W 2
T 3	14 43 17	12°31'57	15° 9	24°35	6°53	2°28	8°31	20°40	27°27	18°25	13° 2	10°R55	12°10	24°42	0°21	T 3
F 4	14 47 14	13°30'13	29°13	24°D31	8° 5	2°13	8°46	20°46	27°24	18°23	13° 4	10°54	12° 7	24°49	0°24	F 4
S 5	14 51 10	14°28'26	13°10	24°32	9°16	1°57	9° 0	20°51	27°22	18°22	13° 5	10°52	12° 4	24°55	0°27	S 5
S 6	14 55 7	15°26'37	26°56	24°37	10°27	1°41	9°15	20°56	27°19	18°21	13° 6	10°49	12° 1	25° 2	0°30	S 6
M 7	14 59 3	16°24'46	10°A31	24°48	11°39	1°24	9°29	21° 1	27°17	18°20	13° 7	10°46	11°58	25° 9	0°34	M 7
T 8	15 3 0	17°22'53	23°54	25° 3	12°50	1° 6	9°43	21° 6	27°15	18°18	13° 8	10°42	11°54	25°15	0°37	T 8
W 9	15 6 57	18°20'59	7°M 2	25°22	14° 2	0°48	9°57	21°12	27°12	18°17	13°10	10°39	11°51	25°22	0°41	W 9
T 10	15 10 53	19°19'03	19°55	25°46	15°14	0°30	10°12	21°17	27°10	18°16	13°11	10°37	11°48	25°29	0°44	T 10
F 11	15 14 50	20°17'05	2°A33	26°15	16°25	0°11	10°26	21°22	27° 8	18°14	13°12	10°36	11°45	25°35	0°48	F 11
S 12	15 18 46	21°15'06	14°56	26°47	17°37	29°M51	10°40	21°26	27° 5	18°13	13°14	10°D35	11°42	25°42	0°52	S 12
S 13	15 22 43	22°13'05	27° 8	27°24	18°48	29°32	10°54	21°31	27° 3	18°11	13°15	10°36	11°39	25°49	0°56	S 13
M14	15 26 39	23°11'03	9°B 9	28° 4	20° 0	29°11	11° 9	21°36	27° 1	18°10	13°16	10°37	11°35	25°56	1° 0	M14
T 15	15 30 36	24° 8'59	21° 2	28°48	21°12	28°51	11°23	21°41	26°59	18° 9	13°17	10°39	11°32	26° 2	1° 4	T 15
W16	15 34 32	25° 6'54	2°A53	29°35	22°23	28°30	11°37	21°45	26°56	18° 7	13°19	10°40	11°29	26° 9	1° 8	W16
T 17	15 38 29	26° 4'48	14°46	0°B26	23°35	28° 9	11°51	21°50	26°54	18° 6	13°20	10°41	11°26	26°16	1°12	T 17
F 18	15 42 26	27° 2'41	26°44	1°21	24°47	27°48	12° 5	21°54	26°52	18° 4	13°21	10°R41	11°23	26°22	1°16	F 18
S 19	15 46 22	28° 0'32	8°H52	2°18	25°59	27°27	12°19	21°58	26°50	18° 3	13°23	10°41	11°19	26°29	1°21	S 19
S 20	15 50 19	28°58'22	21°16	3°19	27°11	27° 5	12°34	22° 3	26°48	18° 1	13°24	10°40	11°16	26°36	1°25	S 20
M21	15 54 15	29°56'11	3°Y58	4°23	28°23	26°44	12°48	22° 7	26°46	18° 0	13°25	10°39	11°13	26°42	1°30	M21
T 22	15 58 12	0°II53'59	17° 2	5°29	29°34	26°22	13° 2	22°11	26°44	17°58	13°27	10°38	11°10	26°49	1°34	T 22
W23	16 2 8	1°51'45	0°B30	6°39	0°A46	26° 1	13°16	22°15	26°42	17°57	13°28	10°37	11° 7	26°56	1°39	W23
T 24	16 6 5	2°49'31	14°20	7°51	1°58	25°39	13°30	22°19	26°40	17°55	13°29	10°36	11° 4	27° 2	1°44	T 24
F 25	16 10 1	3°47'15	28°31	9° 6	3°10	25°18	13°43	22°23	26°38	17°53	13°31	10°35	11° 0	27° 9	1°48	F 25
S 26	16 13 58	4°44'58	12°II59	10°23	4°22	24°57	13°57	22°27	26°36	17°52	13°32	10°D35	10°57	27°16	1°53	S 26
S 27	16 17 55	5°42'40	27°38	11°44	5°34	24°36	14°11	22°31	26°35	17°50	13°33	10°36	10°54	27°22	1°58	S 27
M28	16 21 51	6°40'20	12°B21	13° 6	6°46	24°15	14°25	22°34	26°33	17°49	13°35	10°36	10°51	27°29	2° 3	M28
T 29	16 25 48	7°37'59	27° 2	14°32	7°58	23°55	14°39	22°38	26°31	17°47	13°36	10°36	10°48	27°36	2° 8	T 29
W30	16 29 44	8°35'37	11°L35	16° 0	9°10	23°35	14°53	22°41	26°29	17°46	13°38	10°36	10°45	27°43	2°13	W30
T 31	16 33 41	9°II33'13	25°L56	17°B30	10°B22	23°M15	15°B 6	22°H45	26°A28	17°A44	13°II39	10°A36	10°A41	27°B49	2°L19	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14n59	19n20	3 s 4	8n41	1 s 2	0n21	1s35	20s34	0n10	13n16	0s58	5s26	1s49	10s 2	0n36	21s26
W 2	15 17	16 0	4 1	8 22	1 17	0 47	1 36	20 34	0 7	13 20	0 58	5 24	1 49	10 1	0 36	21 25
T 3	15 35	11 46	4 43	8 6	1 31	1 14	1 37	20 33	0 5	13 25	0 58	5 22	1 49	10 0	0 36	21 25
F 4	15 53	6 56	5 7	7 52	1 45	1 41	1 39	20 33	0 2	13 29	0 58	5 20	1 49	9 59	0 35	21 25
S 5	16 10	1 47	5 13	7 41	1 57	2 8	1 40	20 32	0s 0	13 34	0 58	5 18	1 50	9 58	0 35	21 25
S 6	16 27	3s24	5 1	7 32	2 9	2 35	1 41	20 32	0 3	13 39	0 58	5 16	1 50	9 58	0 35	21 25
M 7	16 44	8 20	4 33	7 26	2 19	3 2	1 42	20 31	0 6	13 43	0 58	5 14	1 50	9 57	0 35	21 25
T 8	17 0	12 49	3 49	7 22	2 29	3 29	1 43	20 30	0 9	13 48	0 58	5 13	1 50	9 56	0 35	21 25
W 9	17 17	16 36	2 54	7 21	2 38	3 56	1 44	20 29	0 11	13 52	0 58	5 11	1 50	9 55	0 35	21 25
T 10	17 33	19 30	1 52	7 23	2 46	4 23	1 45	20 28	0 14	13 57	0 58	5 9	1 51	9 54	0 35	21 24
F 11	17 48	21 23	0 44	7 26	2 53	4 49	1 46	20 27	0 17	14 1	0 58	5 7	1 51	9 53	0 35	21 24
S 12	18 3	22 10	0n24	7 32	2 59	5 16	1 46	20 26	0 20	14 6	0 58	5 6	1 51	9 53	0 35	21 24
S 13	18 19	21 53	1 30	7 40	3 5	5 43	1 47	20 24	0 23	14 10	0 58	5 4	1 51	9 52	0 35	21 24
M14	18 33	20 35	2 31	7 50	3 9	6 9	1 47	20 23	0 26	14 15	0 58	5 2	1 51	9 51	0 35	21 24
T 15	18 48	18 24	3 25	8 2	3 13	6 36	1 48	20 21	0 29	14 19	0 58	5 0	1 52	9 50	0 35	21 24
W16	19 2	15 26	4 10	8 16	3 16	7 2	1 48	20 19	0 32	14 23	0 58	4 59	1 52	9 50	0 35	21 24
T 17	19 15	11 51	4 45	8 31	3 18	7 28	1 48	20 18	0 34	14 28	0 58	4 57	1 52	9 49	0 35	21 23
F 18	19 29	7 46	5 7	8 49	3 19	7 55	1 48	20 16	0 37	14 32	0 58	4 56	1 52	9 48	0 35	21 23
S 19	19 42	3 21	5 16	9 8	3 20	8 21	1 48	20 14	0 40	14 36	0 58	4 54	1 52	9 47	0 35	21 23
S 20	19 55	1n18	5 11	9 28	3 20	8 46	1 48	20 12	0 43	14 41	0 58	4 53	1 53	9 47	0 35	21 23
M21	20 7	6 2	4 51	9 50	3 19	9 12	1 48	20 10	0 46	14 45	0 58	4 51	1 53	9 46	0 35	21 23
T 22	20 19	10 37	4 15	10 14	3 18	9 38	1 48	20 7	0 49	14 49	0 58	4 50	1 53	9 45	0 35	21 23
W23	20 31	14 50	3 24	10 38	3 16	10 3	1 48	20 5	0 52	14 53	0 58	4 48	1 53	9 45	0 35	21 23
T 24	20 42	18 22	2 21	11 4	3 13	10 28	1 48	20 3	0 55	14 57	0 58	4 47	1 54	9 44	0 35	21 22
F 25	20 53	20 54	1 6	11 31	3 9	10 53	1 47	20 1	0 58	15 2	0 58	4 46	1 54	9 43	0 35	21 22
S 26	21 4	22 7	0s13	11 59	3 5	11 18	1 47	19 58	1 1	15 6	0 58	4 44	1 54	9 43	0 35	21 22
S 27	21 14	21 51	1 33	12 28	3 1	11 42	1 46	19 56	1 4	15 10	0 58	4 43	1 54	9 42	0 35	21 22
M28	21 24	20 4	2 47	12 58	2 56	12 6	1 45	19 54	1 6	15 14	0 58	4 42	1 55	9 41	0 35	21 22
T 29	21 34	16 58	3 50	13 29	2 50	12 30	1 45	19 51	1 9	15 18	0 58	4 41	1 55	9 41	0 35	21 22
W30	21 43	12 51	4 38	14 0	2 43	12 54	1 44	19 49	1 12	15 22	0 58	4 40	1 55	9 40	0 35	21 21
T 31	21n52	8n 3	5s 7	14n32	2s37	13n17	1s43	19s47	1s15	15n26	0s58	4s39	1s55	9s40	0n35	21s21

Julian Day Number = 2503529.5, Delta T = 116.55 sec
 Ecliptic obliquity = 23°25'12, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°43'45, Lahiri = 25°50'45

ASTRODIENST EPHEMERIS for the year 2142

geocentric

JUNE 2142

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 37 37	10 ^{II} 30'47	10 ^{III} 2	19 ^{III} 3	11 ^{III} 35	22°R56	15 ^{III} 20	22 ^{III} 48	26°R26	17°R42	13 ^{II} 40	10 ^{III} 37	10 ^{III} 38	27 ^{III} 56	2 ^{II} 24	F 1
S 2	16 41 34	11°28'20	23°50	20°38	12°47	22 ^{III} 38	15°34	22°51	26 ^{III} 24	17 ^{III} 41	13°42	10°37	10°35	28° 3	2°29	S 2
S 3	16 45 30	12°25'52	7 ^{II} 22	22°15	13°59	22°19	15°47	22°54	26°23	17°39	13°43	10°37	10°32	28° 9	2°35	S 3
M 4	16 49 27	13°23'22	20°38	23°56	15°11	22° 2	16° 1	22°57	26°21	17°38	13°44	10°37	10°29	28°16	2°40	M 4
T 5	16 53 24	14°20'51	3 ^{III} 37	25°38	16°23	21°45	16°14	23° 0	26°20	17°36	13°46	10°37	10°25	28°23	2°45	T 5
W 6	16 57 20	15°18'19	16°23	27°23	17°35	21°28	16°28	23° 3	26°19	17°34	13°47	10°38	10°22	28°29	2°51	W 6
T 7	17 1 17	16°15'45	28°56	29°11	18°48	21°13	16°41	23° 6	26°17	17°33	13°49	10°38	10°19	28°36	2°57	T 7
F 8	17 5 13	17°13'11	11 ^{III} 17	1 ^{III} 0	20° 0	20°57	16°54	23° 8	26°16	17°31	13°50	10°R38	10°16	28°43	3° 2	F 8
S 9	17 9 10	18°10'36	23°28	2°52	21°12	20°43	17° 8	23°11	26°15	17°29	13°51	10°38	10°13	28°49	3° 8	S 9
S 10	17 13 6	19° 8'00	5 ^{III} 31	4°47	22°24	20°29	17°21	23°13	26°13	17°28	13°53	10°37	10°10	28°56	3°14	S 10
M 11	17 17 3	20° 5'23	17°27	6°44	23°37	20°16	17°34	23°16	26°12	17°26	13°54	10°36	10° 6	29° 3	3°20	M 11
T 12	17 20 59	21° 2'46	29°19	8°43	24°49	20° 4	17°47	23°18	26°11	17°25	13°55	10°35	10° 3	29° 9	3°26	T 12
W 13	17 24 56	22° 0'07	11 ^{III} 10	10°44	26° 1	19°52	18° 0	23°20	26°10	17°23	13°57	10°33	10° 0	29°16	3°32	W 13
T 14	17 28 53	22°57'29	23° 2	12°47	27°14	19°42	18°13	23°22	26° 9	17°21	13°58	10°32	9°57	29°23	3°38	T 14
F 15	17 32 49	23°54'49	5 ^{III} 0	14°52	28°26	19°32	18°26	23°24	26° 8	17°20	14° 0	10°30	9°54	29°30	3°44	F 15
S 16	17 36 46	24°52'09	17° 8	16°58	29°39	19°22	18°39	23°26	26° 7	17°18	14° 1	10°30	9°51	29°36	3°50	S 16
S 17	17 40 42	25°49'29	29°29	19° 6	0 ^{III} 51	19°14	18°52	23°28	26° 6	17°17	14° 2	10°D30	9°47	29°43	3°56	S 17
M 18	17 44 39	26°46'48	12 ^{III} 8	21°15	2° 3	19° 6	19° 5	23°30	26° 5	17°15	14° 4	10°30	9°44	29°50	4° 2	M 18
T 19	17 48 35	27°44'07	25°10	23°26	3°16	19° 0	19°17	23°31	26° 4	17°13	14° 5	10°31	9°41	29°56	4° 8	T 19
W 20	17 52 32	28°41'26	8 ^{III} 36	25°37	4°29	18°54	19°30	23°33	26° 4	17°12	14° 6	10°32	9°38	0 ^{III} 3	4°15	W 20
T 21	17 56 28	29°38'44	22°28	27°48	5°41	18°49	19°43	23°34	26° 3	17°10	14° 8	10°34	9°35	0°10	4°21	T 21
F 22	18 0 25	0 ^{III} 36'02	6 ^{III} 45	0° 0	6°54	18°44	19°55	23°36	26° 2	17° 9	14° 9	10°R34	9°31	0°16	4°27	F 22
S 23	18 4 22	1°33'20	21°25	2°12	8° 6	18°41	20° 8	23°37	26° 2	17° 7	14°10	10°34	9°28	0°23	4°34	S 23
S 24	18 8 18	2°30'38	6 ^{III} 22	4°23	9°19	18°38	20°20	23°38	26° 1	17° 5	14°12	10°33	9°25	0°30	4°40	S 24
M 25	18 12 15	3°27'54	21°26	6°34	10°31	18°36	20°32	23°39	26° 1	17° 4	14°13	10°30	9°22	0°36	4°47	M 25
T 26	18 16 11	4°25'11	6 ^{III} 30	8°44	11°44	18°35	20°45	23°40	26° 0	17° 2	14°14	10°27	9°19	0°43	4°53	T 26
W 27	18 20 8	5°22'26	21°24	10°53	12°57	18°D35	20°57	23°41	26° 0	17° 1	14°16	10°24	9°16	0°50	5° 0	W 27
T 28	18 24 4	6°19'42	6 ^{III} 1	13° 1	14° 9	18°36	21° 9	23°42	25°59	16°59	14°17	10°21	9°12	0°57	5° 6	T 28
F 29	18 28 1	7°16'56	20°16	15° 7	15°22	18°38	21°21	23°42	25°59	16°58	14°18	10°19	9° 9	1° 3	5°13	F 29
S 30	18 31 57	8°14'10	4 ^{III} 7	17°12	16°II35	18°II40	21°II33	23°II43	25°II59	16°II56	14°II19	10°D18	9°II 6	1 ^{III} 10	5°II20	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	22n 0	2n54	5s17	15n 4	2s29	13n40	1s42	19s44	1s17	15n30	0s58	4s37	1s55	9s39	0n35	F 1
S 2	22 8	2s17	5 9	15 37	2 21	14 3	1 41	19 42	1 20	15 34	0 58	4 36	1 56	9 38	0 35	S 2
S 3	22 16	7 16	4 44	16 10	2 13	14 26	1 40	19 40	1 23	15 38	0 58	4 35	1 56	9 38	0 35	S 3
M 4	22 23	11 48	4 3	16 44	2 4	14 48	1 39	19 38	1 25	15 41	0 58	4 34	1 56	9 37	0 35	M 4
T 5	22 30	15 43	3 11	17 17	1 55	15 10	1 38	19 36	1 28	15 45	0 58	4 33	1 56	9 37	0 35	T 5
W 6	22 37	18 48	2 11	17 50	1 46	15 31	1 37	19 34	1 30	15 49	0 58	4 33	1 57	9 36	0 35	W 6
T 7	22 43	20 57	1 5	18 24	1 36	15 52	1 35	19 32	1 33	15 53	0 58	4 32	1 57	9 36	0 35	T 7
F 8	22 48	22 3	0n 4	18 57	1 26	16 13	1 34	19 30	1 35	15 57	0 58	4 31	1 57	9 36	0 35	F 8
S 9	22 54	22 5	1 11	19 29	1 15	16 34	1 32	19 29	1 37	16 0	0 58	4 30	1 57	9 35	0 35	S 9
S 10	22 59	21 5	2 14	20 1	1 5	16 54	1 31	19 27	1 40	16 4	0 58	4 29	1 58	9 35	0 35	S 10
M 11	23 3	19 8	3 10	20 32	0 54	17 13	1 29	19 26	1 42	16 8	0 58	4 29	1 58	9 34	0 35	M 11
T 12	23 7	16 23	3 58	21 2	0 43	17 32	1 28	19 25	1 44	16 11	0 58	4 28	1 58	9 34	0 34	T 12
W 13	23 11	12 59	4 36	21 31	0 32	17 51	1 26	19 24	1 46	16 15	0 58	4 27	1 58	9 34	0 34	W 13
T 14	23 14	9 4	5 2	21 58	0 21	18 9	1 24	19 23	1 48	16 19	0 58	4 27	1 59	9 33	0 34	T 14
F 15	23 17	4 47	5 15	22 24	0 10	18 27	1 23	19 22	1 50	16 22	0 58	4 26	1 59	9 33	0 34	F 15
S 16	23 19	0 15	5 14	22 48	0n 1	18 45	1 21	19 21	1 52	16 26	0 58	4 26	1 59	9 33	0 34	S 16
S 17	23 21	4n22	4 59	23 10	0 12	19 2	1 19	19 21	1 54	16 29	0 58	4 25	1 59	9 32	0 34	S 17
M 18	23 23	8 56	4 29	23 30	0 22	19 18	1 17	19 20	1 56	16 32	0 58	4 25	2 0	9 32	0 34	M 18
T 19	23 24	13 13	3 45	23 48	0 32	19 34	1 15	19 20	1 57	16 36	0 58	4 24	2 0	9 32	0 34	T 19
W 20	23 25	17 0	2 48	24 3	0 42	19 49	1 13	19 20	1 59	16 39	0 58	4 24	2 0	9 32	0 34	W 20
T 21	23 25	19 57	1 38	24 16	0 52	20 4	1 11	19 20	2 1	16 43	0 59	4 24	2 0	9 31	0 34	T 21
F 22	23 25	21 46	0 21	24 26	1 0	20 19	1 9	19 21	2 2	16 46	0 59	4 23	2 1	9 31	0 34	F 22
S 23	23 25	22 9	1s 0	24 33	1 9	20 33	1 7	19 21	2 4	16 49	0 59	4 23	2 1	9 31	0 34	S 23
S 24	23 24	20 59	2 17	24 37	1 16	20 46	1 5	19 22	2 6	16 52	0 59	4 23	2 1	9 31	0 34	S 24
M 25	23 22	18 19	3 26	24 39	1 23	20 59	1 2	19 23	2 7	16 56	0 59	4 23	2 1	9 31	0 34	M 25
T 26	23 21	14 25	4 21	24 37	1 30	21 11	1 0	19 24	2 8	16 59	0 59	4 23	2 2	9 30	0 34	T 26
W 27	23 19	9 40	4 57	24 33	1 35	21 23	0 58	19 25	2 10	17 2	0 59	4 22	2 2	9 30	0 34	W 27
T 28	23 16	4 26	5 13	24 27	1 40	21 34	0 56	19 27	2 11	17 5	0 59	4 22	2 2	9 30	0 34	T 28
F 29	23 13	0s53	5 9	24 17	1 44	21 44	0 53	19 28	2 12	17 8	0 59	4 22	2 3	9 30	0 34	F 29
S 30	23n10	6s 2	4s47	24n 6	1n48	21n54	0s51	19s30	2s14	17n11	0s59	4s22	2s 3	9s30	0n34	S 30

Julian Day Number = 2503560.5, Delta T = 116.61 sec

Ecliptic obliquity = 23°25'11, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°43'49, Lahiri = 25°50'49

ASTRODIENST EPHEMERIS for the year 2142

geocentric

JULY 2142

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 54	9 ⁵⁵ 11'23	17 ²³ 35	19 ⁵⁵ 15	17 ¹¹ 48	18 ¹¹ 43	21 ⁸ 44	23 ¹¹ 43	25 ¹⁰ R59	16 ¹⁰ R55	14 ¹¹ 21	10 ¹¹ 19	9 ¹¹ 3	1 ¹¹ 17	5 ¹⁰ 26	S 1
M 2	18 39 51	10 ⁰ 8'36	0 ¹¹ 40	21 ¹⁰ 16	19 ⁰ 0	18 ¹⁸ 47	21 ¹⁰ 56	23 ¹⁰ 44	25 ¹⁰ 59	16 ¹⁰ 53	14 ¹⁰ 22	10 ¹⁰ 20	9 ⁰ 0	1 ¹⁰ 23	5 ¹⁰ 33	M 2
T 3	18 43 47	11 ⁰ 5'49	13 ⁰ 26	23 ¹⁰ 15	20 ¹⁰ 13	18 ¹⁸ 52	22 ⁰ 8	23 ¹⁰ 44	25 ¹⁰ 59	16 ¹⁰ 52	14 ¹⁰ 23	10 ¹⁰ 21	8 ¹⁰ 57	1 ¹⁰ 30	5 ¹⁰ 40	T 3
W 4	18 47 44	12 ⁰ 3'01	25 ⁰ 56	25 ¹⁰ 13	21 ¹⁰ 26	18 ¹⁸ 58	22 ⁰ 20	23 ¹⁰ 44	25 ¹⁰ D59	16 ¹⁰ 51	14 ¹⁰ 24	10 ¹⁰ 23	8 ¹⁰ 53	1 ¹⁰ 37	5 ¹⁰ 47	W 4
T 5	18 51 40	13 ⁰ 0'13	8 ¹¹ 13	27 ⁰ 8	22 ¹⁰ 39	19 ⁰ 4	22 ¹⁰ 31	23 ¹⁰ R44	25 ¹⁰ 59	16 ¹⁰ 49	14 ¹⁰ 26	10 ¹⁰ R24	8 ¹⁰ 50	1 ¹⁰ 43	5 ¹⁰ 54	T 5
F 6	18 55 37	13 ⁰ 57'24	20 ¹⁰ 21	29 ⁰ 2	23 ¹⁰ 52	19 ¹⁰ 11	22 ¹⁰ 42	23 ¹⁰ 44	25 ¹⁰ 59	16 ¹⁰ 48	14 ¹⁰ 27	10 ¹⁰ 23	8 ¹⁰ 47	1 ¹⁰ 50	6 ⁰ 0	F 6
S 7	18 59 33	14 ⁰ 54'36	2 ¹¹ 21	0 ¹⁰ 53	25 ⁰ 5	19 ¹⁰ 19	22 ¹⁰ 54	23 ¹⁰ 44	25 ¹⁰ 59	16 ¹⁰ 46	14 ¹⁰ 28	10 ¹⁰ 21	8 ¹⁰ 44	1 ¹⁰ 57	6 ⁰ 7	S 7
S 8	19 3 30	15 ⁰ 51'47	14 ¹⁰ 16	2 ¹⁰ 43	26 ¹⁰ 18	19 ¹⁰ 27	23 ⁰ 5	23 ¹⁰ 43	25 ¹⁰ 59	16 ¹⁰ 45	14 ¹⁰ 29	10 ¹⁰ 17	8 ¹⁰ 41	2 ⁰ 3	6 ⁰ 14	S 8
M 9	19 7 26	16 ⁰ 48'58	26 ⁰ 9	4 ¹⁰ 30	27 ¹⁰ 30	19 ¹⁰ 36	23 ¹⁰ 16	23 ¹⁰ 43	25 ¹⁰ 59	16 ¹⁰ 44	14 ¹⁰ 30	10 ¹⁰ 12	8 ¹⁰ 37	2 ¹⁰ 10	6 ⁰ 21	M 9
T 10	19 11 23	17 ⁰ 46'10	8 ¹¹ 0	6 ¹⁰ 16	28 ¹⁰ 43	19 ¹⁰ 46	23 ¹⁰ 27	23 ¹⁰ 43	25 ¹⁰ 59	16 ¹⁰ 42	14 ¹⁰ 32	10 ¹⁰ 6	8 ¹⁰ 34	2 ¹⁰ 17	6 ⁰ 28	T 10
W 11	19 15 20	18 ⁰ 43'21	19 ¹⁰ 51	7 ¹⁰ 59	29 ¹⁰ 56	19 ¹⁰ 57	23 ¹⁰ 38	23 ¹⁰ 42	26 ⁰ 0	16 ¹⁰ 41	14 ¹⁰ 33	9 ¹⁰ 59	8 ¹⁰ 31	2 ¹⁰ 24	6 ⁰ 35	W 11
T 12	19 19 16	19 ⁰ 40'33	1 ¹¹ 46	9 ¹⁰ 40	1 ¹⁰ 59	20 ⁰ 8	23 ¹⁰ 49	23 ¹⁰ 41	26 ⁰ 0	16 ¹⁰ 40	14 ¹⁰ 34	9 ¹⁰ 52	8 ¹⁰ 28	2 ¹⁰ 30	6 ⁰ 42	T 12
F 13	19 23 13	20 ⁰ 37'45	13 ¹⁰ 46	11 ¹⁰ 20	2 ¹⁰ 22	20 ¹⁰ 20	24 ⁰ 0	23 ¹⁰ 41	26 ⁰ 1	16 ¹⁰ 38	14 ¹⁰ 35	9 ¹⁰ 46	8 ¹⁰ 25	2 ¹⁰ 37	6 ⁰ 49	F 13
S 14	19 27 9	21 ⁰ 34'57	25 ¹⁰ 54	12 ¹⁰ 57	3 ¹⁰ 36	20 ¹⁰ 33	24 ¹⁰ 10	23 ¹⁰ 40	26 ⁰ 1	16 ¹⁰ 37	14 ¹⁰ 36	9 ¹⁰ 41	8 ¹⁰ 22	2 ¹⁰ 44	6 ⁰ 56	S 14
S 15	19 31 6	22 ⁰ 32'10	8 ¹¹ 15	14 ¹⁰ 32	4 ¹⁰ 49	20 ¹⁰ 46	24 ¹⁰ 21	23 ¹⁰ 39	26 ⁰ 2	16 ¹⁰ 36	14 ¹⁰ 37	9 ¹⁰ 38	8 ¹⁰ 18	2 ¹⁰ 50	7 ⁰ 4	S 15
M 16	19 35 2	23 ⁰ 29'24	20 ¹⁰ 51	16 ⁰ 5	6 ⁰ 2	21 ⁰ 0	24 ¹⁰ 31	23 ¹⁰ 38	26 ⁰ 2	16 ¹⁰ 35	14 ¹⁰ 39	9 ¹⁰ D37	8 ¹⁰ 15	2 ¹⁰ 57	7 ⁰ 11	M 16
T 17	19 38 59	24 ⁰ 26'37	3 ¹¹ 47	17 ¹⁰ 36	7 ¹⁰ 15	21 ¹⁰ 15	24 ¹⁰ 42	23 ¹⁰ 37	26 ⁰ 3	16 ¹⁰ 33	14 ¹⁰ 40	9 ¹⁰ 38	8 ¹⁰ 12	3 ⁰ 4	7 ⁰ 18	T 17
W 18	19 42 55	25 ⁰ 23'52	17 ⁰ 7	19 ⁰ 5	8 ¹⁰ 28	21 ¹⁰ 30	24 ¹⁰ 52	23 ¹⁰ 35	26 ⁰ 4	16 ¹⁰ 32	14 ¹⁰ 41	9 ¹⁰ 39	8 ¹⁰ 9	3 ⁰ 10	7 ⁰ 25	W 18
T 19	19 46 52	26 ⁰ 21'07	0 ¹¹ 52	20 ¹⁰ 32	9 ¹⁰ 41	21 ¹⁰ 46	25 ⁰ 2	23 ¹⁰ 34	26 ⁰ 4	16 ¹⁰ 31	14 ¹⁰ 42	9 ¹⁰ 40	8 ¹⁰ 6	3 ⁰ 17	7 ⁰ 32	T 19
F 20	19 50 49	27 ⁰ 18'23	15 ⁰ 5	21 ¹⁰ 57	10 ¹⁰ 55	22 ⁰ 2	25 ⁰ 12	23 ¹⁰ 32	26 ⁰ 5	16 ¹⁰ 30	14 ¹⁰ 43	9 ¹⁰ R40	8 ¹⁰ 3	3 ⁰ 24	7 ⁰ 39	F 20
S 21	19 54 45	28 ⁰ 15'40	29 ¹⁰ 44	23 ¹⁰ 20	12 ⁰ 8	22 ¹⁰ 19	25 ⁰ 22	23 ¹⁰ 31	26 ⁰ 6	16 ¹⁰ 29	14 ¹⁰ 44	9 ¹⁰ 38	7 ¹⁰ 59	3 ⁰ 31	7 ⁰ 47	S 21
S 22	19 58 42	29 ⁰ 12'57	14 ¹¹ 44	24 ¹⁰ 40	13 ⁰ 21	22 ¹⁰ 37	25 ⁰ 32	23 ¹⁰ 29	26 ⁰ 7	16 ¹⁰ 28	14 ¹⁰ 45	9 ¹⁰ 35	7 ¹⁰ 56	3 ⁰ 37	7 ⁰ 54	S 22
M 23	20 2 38	0 ¹¹ 10'14	29 ¹⁰ 57	25 ¹⁰ 58	14 ¹⁰ 34	22 ¹⁰ 55	25 ⁰ 42	23 ¹⁰ 28	26 ⁰ 8	16 ¹⁰ 27	14 ¹⁰ 46	9 ¹⁰ 29	7 ¹⁰ 53	3 ⁰ 44	8 ⁰ 1	M 23
T 24	20 6 35	1 ⁰ 7'32	15 ¹¹ 13	27 ¹⁰ 14	15 ¹⁰ 48	23 ¹⁰ 14	25 ⁰ 51	23 ¹⁰ 26	26 ⁰ 9	16 ¹⁰ 26	14 ¹⁰ 47	9 ¹⁰ 22	7 ¹⁰ 50	3 ⁰ 51	8 ⁰ 8	T 24
W 25	20 10 31	2 ⁰ 4'51	0 ¹¹ 22	28 ¹⁰ 28	17 ⁰ 1	23 ¹⁰ 33	26 ⁰ 1	23 ¹⁰ 24	26 ⁰ 10	16 ¹⁰ 25	14 ¹⁰ 48	9 ¹⁰ 14	7 ¹⁰ 47	3 ⁰ 57	8 ⁰ 15	W 25
T 26	20 14 28	3 ⁰ 2'10	15 ¹¹ 14	29 ¹⁰ 39	18 ¹⁰ 15	23 ¹⁰ 53	26 ⁰ 10	23 ¹⁰ 22	26 ⁰ 11	16 ¹⁰ 24	14 ¹⁰ 49	9 ¹⁰ 7	7 ¹⁰ 43	4 ⁰ 4	8 ⁰ 23	T 26
F 27	20 18 25	3 ⁰ 59'29	29 ¹⁰ 41	0 ¹¹ 48	19 ¹⁰ 28	24 ¹⁰ 13	26 ⁰ 19	23 ¹⁰ 20	26 ⁰ 12	16 ¹⁰ 23	14 ¹⁰ 50	9 ¹⁰ 1	7 ¹⁰ 40	4 ⁰ 11	8 ⁰ 30	F 27
S 28	20 22 21	4 ⁰ 56'48	13 ¹¹ 40	1 ¹⁰ 54	20 ¹⁰ 41	24 ¹⁰ 34	26 ⁰ 28	23 ¹⁰ 18	26 ⁰ 14	16 ¹⁰ 22	14 ¹⁰ 51	8 ¹⁰ 57	7 ¹⁰ 37	4 ⁰ 17	8 ⁰ 37	S 28
S 29	20 26 18	5 ⁰ 54'08	27 ¹⁰ 10	2 ¹⁰ 58	21 ¹⁰ 55	24 ¹⁰ 56	26 ⁰ 37	23 ¹⁰ 15	26 ⁰ 15	16 ¹⁰ 21	14 ¹⁰ 52	8 ¹⁰ 55	7 ¹⁰ 34	4 ⁰ 24	8 ⁰ 45	S 29
M 30	20 30 14	6 ⁰ 51'28	10 ¹¹ 14	3 ¹⁰ 59	23 ⁰ 8	25 ¹⁰ 17	26 ⁰ 46	23 ¹⁰ 13	26 ⁰ 16	16 ¹⁰ 20	14 ¹⁰ 53	8 ¹⁰ D55	7 ¹⁰ 31	4 ⁰ 31	8 ⁰ 52	M 30
T 31	20 34 11	7 ⁰ 48'49	22 ¹¹ 55	4 ¹¹ 57	24 ¹⁰ 22	25 ¹⁰ 14	26 ⁰ 55	23 ¹⁰ 10	26 ⁰ 17	16 ¹⁰ 19	14 ¹⁰ 54	8 ¹⁰ 55	7 ¹⁰ 28	4 ⁰ 38	8 ⁰ 59	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 2142
geocentric

AUGUST 2142

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 38 7	8♌46°10	5♊18	5♍52	25♎35	26♍3	27♋4	23°R 8	26♏19	16°R18	14♊55	8°R56	7♊24	4♎44	9♏6	W 1
T 2	20 42 4	9°43'32	17°27	6°44	26°49	26°26	27°12	23♋5	26°20	16♊17	14°55	8♊56	7°21	4°51	9°14	T 2
F 3	20 46 0	10°40'54	29°26	7°32	28°3	26°50	27°20	23°3	26°22	16°17	14°56	8°53	7°18	4°58	9°21	F 3
S 4	20 49 57	11°38'17	11♌20	8°17	29°16	27°14	27°29	23°0	26°23	16°16	14°57	8°49	7°15	5°4	9°28	S 4
S 5	20 53 54	12°35'41	23°11	8°59	0♏30	27°39	27°37	22°57	26°25	16°15	14°58	8°42	7°12	5°11	9°36	S 5
M 6	20 57 50	13°33'06	5♎1	9°37	1°44	28°4	27°44	22°54	26°27	16°14	14°59	8°32	7°9	5°18	9°43	M 6
T 7	21 1 47	14°30'31	16°54	10°11	2°57	28°29	27°52	22°51	26°28	16°14	15°0	8°21	7°5	5°24	9°50	T 7
W 8	21 5 43	15°27'57	28°49	10°41	4°11	28°55	28°0	22°48	26°30	16°13	15°0	8°9	7°2	5°31	9°58	W 8
T 9	21 9 40	16°25'24	10♋50	11°7	5°25	29°22	28°7	22°45	26°32	16°12	15°1	7°57	6°59	5°38	10°5	T 9
F 10	21 13 36	17°22'53	22°56	11°28	6°39	29°48	28°15	22°42	26°34	16°12	15°2	7°46	6°56	5°45	10°12	F 10
S 11	21 17 33	18°20'22	5♍11	11°44	7°52	0♊16	28°22	22°38	26°36	16°11	15°3	7°37	6°53	5°51	10°19	S 11
S 12	21 21 29	19°17'53	17°35	11°56	9°6	0°43	28°29	22°35	26°38	16°11	15°3	7°30	6°49	5°58	10°27	S 12
M13	21 25 26	20°15'25	0♋13	12°3	10°20	1°11	28°36	22°31	26°40	16°10	15°4	7°27	6°46	6°5	10°34	M13
T 14	21 29 22	21°12'59	13°8	12°R 4	11°34	1°39	28°43	22°28	26°42	16°10	15°5	7°25	6°43	6°11	10°41	T 14
W15	21 33 19	22°10'34	26°22	12°0	12°48	2°8	28°49	22°24	26°44	16°9	15°5	7°D25	6°40	6°18	10°48	W15
T 16	21 37 16	23°8'10	9♊59	11°50	14°2	2°37	28°56	22°21	26°46	16°9	15°6	7°R25	6°37	6°25	10°56	T 16
F 17	21 41 12	24°5'48	24°2	11°35	15°16	3°6	29°2	22°17	26°48	16°9	15°6	7°24	6°34	6°31	11°3	F 17
S 18	21 45 9	25°3'28	8♎29	11°15	16°30	3°36	29°8	22°13	26°50	16°8	15°7	7°21	6°30	6°38	11°10	S 18
S 19	21 49 5	26°1'09	23°19	10°49	17°44	4°6	29°14	22°9	26°53	16°8	15°8	7°16	6°27	6°45	11°17	S 19
M20	21 53 2	26°58'51	8♏25	10°17	18°58	4°36	29°20	22°5	26°55	16°8	15°8	7°8	6°24	6°52	11°25	M20
T 21	21 56 58	27°56'35	23°38	9°41	20°12	5°7	29°25	22°1	26°57	16°7	15°9	6°58	6°21	6°58	11°32	T 21
W22	22 0 55	28°54'20	8♍48	9°0	21°26	5°38	29°31	21°57	27°0	16°7	15°9	6°47	6°18	7°5	11°39	W22
T 23	22 4 51	29°52'06	23°44	8°15	22°40	6°9	29°36	21°53	27°2	16°7	15°10	6°37	6°14	7°12	11°46	T 23
F 24	22 8 48	0♍49'54	8♏18	7°27	23°54	6°41	29°41	21°49	27°4	16°7	15°10	6°28	6°11	7°18	11°53	F 24
S 25	22 12 45	1°47'43	22°23	6°35	25°8	7°12	29°46	21°45	27°7	16°7	15°11	6°21	6°8	7°25	12°0	S 25
S 26	22 16 41	2°45'33	5♍59	5°42	26°23	7°45	29°51	21°41	27°9	16°7	15°11	6°17	6°5	7°32	12°7	S 26
M27	22 20 38	3°43'24	19°7	4°49	27°37	8°17	29°56	21°37	27°12	16°7	15°11	6°15	6°2	7°39	12°14	M27
T 28	22 24 34	4°41'16	1♊49	3°55	28°51	8°50	0♊0	21°32	27°15	16°D 7	15°12	6°14	5°59	7°45	12°21	T 28
W29	22 28 31	5°39'10	14°11	3°3	0♍5	9°23	0°4	21°28	27°17	16°7	15°12	6°14	5°55	7°52	12°28	W29
T 30	22 32 27	6°37'05	26°18	2°13	1°20	9°56	0°8	21°24	27°20	16°7	15°13	6°14	5°52	7°59	12°35	T 30
F 31	22 36 24	7♍35'01	8♎15	1♍27	2♍34	10♊30	0♊12	21♋19	27♏23	16♊7	15♊13	6♊11	5♊49	8♎5	12♏42	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 3	21s29	0s19	8n 0	1s27	21n28	0n28	21s44	2s34	18n29	1s 2	4s43	2s11	9s38	0n33	21s15
T 2	17 48	22 4	0n45	7 30	1 39	21 17	0 31	21 50	2 34	18 31	1 2	4 45	2 11	9 39	0 33	21 15
F 3	17 33	21 38	1 47	7 1	1 51	21 4	0 33	21 56	2 34	18 33	1 2	4 46	2 11	9 40	0 33	21 15
S 4	17 17	20 13	2 44	6 33	2 3	20 52	0 35	22 2	2 34	18 34	1 2	4 47	2 11	9 40	0 33	21 15
S 5	17 1	17 56	3 33	6 6	2 16	20 38	0 37	22 8	2 35	18 36	1 2	4 49	2 12	9 41	0 33	21 15
M 6	16 45	14 54	4 13	5 40	2 28	20 24	0 40	22 13	2 35	18 38	1 2	4 50	2 12	9 41	0 32	21 14
T 7	16 28	11 17	4 41	5 16	2 40	20 9	0 42	22 19	2 35	18 39	1 2	4 51	2 12	9 42	0 32	21 14
W 8	16 11	7 13	4 58	4 54	2 52	19 54	0 44	22 25	2 35	18 41	1 2	4 53	2 12	9 43	0 32	21 14
T 9	15 54	2 51	5 2	4 33	3 4	19 38	0 46	22 31	2 35	18 43	1 3	4 54	2 12	9 43	0 32	21 14
F 10	15 37	1n40	4 52	4 15	3 15	19 22	0 48	22 37	2 35	18 44	1 3	4 56	2 13	9 44	0 32	21 14
S 11	15 19	6 9	4 28	3 58	3 27	19 5	0 50	22 43	2 35	18 45	1 3	4 57	2 13	9 45	0 32	21 14
S 12	15 1	10 28	3 52	3 43	3 38	18 48	0 52	22 48	2 35	18 47	1 3	4 59	2 13	9 46	0 32	21 14
M13	14 43	14 24	3 4	3 31	3 48	18 30	0 54	22 54	2 35	18 48	1 3	5 0	2 13	9 46	0 32	21 14
T 14	14 25	17 45	2 5	3 21	3 58	18 11	0 55	23 0	2 35	18 50	1 3	5 2	2 13	9 47	0 32	21 14
W15	14 6	20 16	0 58	3 14	4 8	17 52	0 57	23 6	2 35	18 51	1 3	5 3	2 14	9 48	0 32	21 14
T 16	13 48	21 42	0s14	3 10	4 16	17 33	0 59	23 12	2 35	18 52	1 3	5 5	2 14	9 49	0 32	21 14
F 17	13 29	21 50	1 27	3 8	4 24	17 13	1 1	23 17	2 35	18 54	1 4	5 7	2 14	9 49	0 32	21 14
S 18	13 10	20 33	2 37	3 10	4 31	16 52	1 2	23 23	2 35	18 55	1 4	5 8	2 14	9 50	0 32	21 14
S 19	12 50	17 50	3 37	3 15	4 36	16 31	1 4	23 29	2 34	18 56	1 4	5 10	2 14	9 51	0 32	21 14
M20	12 31	13 53	4 24	3 23	4 40	16 10	1 5	23 34	2 34	18 57	1 4	5 12	2 14	9 52	0 32	21 15
T 21	12 11	9 1	4 53	3 34	4 43	15 48	1 7	23 40	2 34	18 58	1 4	5 13	2 15	9 53	0 32	21 15
W22	11 51	3 37	5 1	3 48	4 44	15 25	1 8	23 45	2 34	18 59	1 4	5 15	2 15	9 54	0 32	21 15
T 23	11 31	1s55	4 48	4 5	4 43	15 3	1 10	23 50	2 34	19 0	1 4	5 17	2 15	9 55	0 32	21 15
F 24	11 10	7 12	4 16	4 25	4 41	14 40	1 11	23 56	2 34	19 1	1 4	5 19	2 15	9 56	0 32	21 15
S 25	10 50	11 57	3 30	4 48	4 36	14 16	1 12	24 1	2 33	19 2	1 5	5 20	2 15	9 56	0 32	21 15
S 26	10 29	15 54	2 33	5 13	4 30	13 52	1 14	24 6	2 33	19 3	1 5	5 22	2 15	9 57	0 32	21 15
M27	10 8	18 55	1 29	5 40	4 22	13 28	1 15	24 11	2 33	19 4	1 5	5 24	2 15	9 58	0 32	21 15
T 28	9 47	20 53	0 23	6 9	4 12	13 3	1 16	24 16	2 33	19 5	1 5	5 26	2 16	9 59	0 32	21 15
W29	9 26	21 47	0n42	6 39	4 0	12 38	1 17	24 21	2 32	19 5	1 5	5 27	2 16	10 0	0 32	21 15
T 30	9 5	21 38	1 44	7 9	3 47	12 12	1 18	24 26	2 32	19 6	1 5	5 29	2 16	10 1	0 32	21 15
F 31	8n43	20s30	2n41	7n39	3s32	11n47	1n19	24s31	2s32	19n 7	1 s 5	5s31	2s16	10s 2	0n32	21s15

Julian Day Number = 2503621.5, Delta T = 116.71 sec
Ecliptic obliquity = 23°25'11, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°43'57, Lahiri = 25°50'58

ASTRODIENST EPHEMERIS for the year 2142

geocentric

SEPTEMBER 2142

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 40 20	8 ^h 32'59"	20 ^h 36'	0°R46	3 ^h 48'	11 ^h 4'	0 ^h 16'	21°R15	27 ^h 25'	16 ^h 7'	15 ^h 13'	6°R 6	5 ^h 46'	8 ^h 12'	12 ^h 49'	S 1
S 2	22 44 17	9°30'58"	1 ^h 56'	0 ^h 10'	5° 3	11°38'	0°20'	21 ^h 11'	27°28'	16° 7	15°13'	5 ^h 58'	5°43'	8°19'	12°56'	S 2
M 3	22 48 14	10°28'58"	13°48'	29 ^h 40'	6°17'	12°12'	0°23'	21° 6	27°31'	16° 7	15°14'	5°47'	5°40'	8°25'	13° 3	M 3
T 4	22 52 10	11°27'00"	25°45'	29°18'	7°31'	12°47'	0°26'	21° 2	27°34'	16° 7	15°14'	5°34'	5°36'	8°32'	13°10'	T 4
W 5	22 56 7	12°25'03"	7 ^h 47'	29° 4	8°46'	13°22'	0°29'	20°57'	27°37'	16° 8	15°14'	5°21'	5°33'	8°39'	13°17'	W 5
T 6	23 0 3	13°23'08"	19°57'	28°D57'	10° 0	13°57'	0°32'	20°53'	27°40'	16° 8	15°14'	5° 7	5°30'	8°46'	13°23'	T 6
F 7	23 4 0	14°21'14"	2 ^h 15'	29° 0	11°15'	14°32'	0°34'	20°48'	27°43'	16° 8	15°15'	4°55'	5°27'	8°52'	13°30'	F 7
S 8	23 7 56	15°19'23"	14°41'	29°11'	12°29'	15° 8	0°37'	20°43'	27°46'	16° 8	15°15'	4°45'	5°24'	8°59'	13°37'	S 8
S 9	23 11 53	16°17'33"	27°18'	29°30'	13°43'	15°44'	0°39'	20°39'	27°49'	16° 9	15°15'	4°37'	5°20'	9° 6	13°43'	S 9
M10	23 15 49	17°15'45"	10 ^h 8'	29°59'	14°58'	16°20'	0°41'	20°34'	27°52'	16° 9	15°15'	4°32'	5°17'	9°12'	13°50'	M10
T 11	23 19 46	18°13'59"	23° 7	0 ^h 36'	16°12'	16°56'	0°43'	20°30'	27°55'	16°10'	15°15'	4°30'	5°14'	9°19'	13°57'	T 11
W12	23 23 43	19°12'16"	6 ^h 24'	1°21'	17°27'	17°32'	0°45'	20°25'	27°58'	16°10'	15°15'	4°D30'	5°11'	9°26'	14° 3	W12
T 13	23 27 39	20°10'34"	19°58'	2°14'	18°42'	18° 9	0°46'	20°20'	28° 1	16°11'	15°15'	4°R30'	5° 8	9°33'	14°10'	T 13
F 14	23 31 36	21° 8'55"	3 ^h 51'	3°14'	19°56'	18°46'	0°47'	20°16'	28° 4	16°11'	15°15'	4°30'	5° 5	9°39'	14°16'	F 14
S 15	23 35 32	22° 7'17"	18° 5	4°22'	21°11'	19°23'	0°48'	20°11'	28° 8	16°12'	15°R15'	4°27'	5° 1	9°46'	14°22'	S 15
S 16	23 39 29	23° 5'42"	2 ^h 38'	5°36'	22°25'	20° 0	0°49'	20° 7	28°11'	16°12'	15°15'	4°23'	4°58'	9°53'	14°29'	S 16
M17	23 43 25	24° 4'09"	17°25'	6°56'	23°40'	20°38'	0°50'	20° 2	28°14'	16°13'	15°15'	4°15'	4°55'	9°59'	14°35'	M17
T 18	23 47 22	25° 2'38"	2 ^h 20'	8°21'	24°55'	21°15'	0°50'	19°57'	28°17'	16°14'	15°15'	4° 6	4°52'	10° 6	14°41'	T 18
W19	23 51 18	26° 1'09"	17°15'	9°51'	26° 9	21°53'	0°50'	19°53'	28°21'	16°14'	15°15'	3°56'	4°49'	10°13'	14°48'	W19
T 20	23 55 15	26°59'41"	2 ^h 0	11°25'	27°24'	22°31'	0°R50'	19°48'	28°24'	16°15'	15°15'	3°46'	4°46'	10°20'	14°54'	T 20
F 21	23 59 12	27°58'16"	16°28'	13° 3	28°39'	23° 9	0°50'	19°44'	28°27'	16°16'	15°15'	3°37'	4°42'	10°26'	15° 0	F 21
S 22	0 3 8	28°56'52"	0 ^h 32'	14°43'	29°53'	23°48'	0°50'	19°39'	28°31'	16°16'	15°15'	3°31'	4°39'	10°33'	15° 6	S 22
S 23	0 7 5	29°55'31"	14° 9	16°26'	1 ^h 8	24°26'	0°49'	19°35'	28°34'	16°17'	15°14'	3°27'	4°36'	10°40'	15°12'	S 23
M24	0 11 1	0 ^h 54'11"	27°20'	18°11'	2°23'	25° 5	0°48'	19°30'	28°38'	16°18'	15°14'	3°25'	4°33'	10°46'	15°18'	M24
T 25	0 14 58	1°52'52"	10 ^h 7'	19°58'	3°38'	25°44'	0°47'	19°26'	28°41'	16°19'	15°14'	3°D25'	4°30'	10°53'	15°24'	T 25
W26	0 18 54	2°51'36"	22°30'	21°46'	4°52'	26°23'	0°46'	19°21'	28°45'	16°20'	15°14'	3°26'	4°26'	11° 0	15°30'	W26
T 27	0 22 51	3°50'21"	4 ^h 39'	23°35'	6° 7	27° 3	0°45'	19°17'	28°48'	16°21'	15°14'	3°R26'	4°23'	11° 6	15°36'	T 27
F 28	0 26 47	4°49'08"	16°37'	25°24'	7°22'	27°42'	0°43'	19°13'	28°52'	16°22'	15°13'	3°25'	4°20'	11°13'	15°41'	F 28
S 29	0 30 44	5°47'56"	28°29'	27°14'	8°37'	28°22'	0°42'	19° 8	28°55'	16°23'	15°13'	3°23'	4°17'	11°20'	15°47'	S 29
S 30	0 34 40	6 ^h 46'47"	10 ^h 20'	29 ^h 4	9 ^h 51	29 ^h 1	0 ^h 40'	19 ^h 4	28 ^h 59	16 ^h 24	15 ^h 13	3 ^h 17	4 ^h 14	11 ^h 27	15 ^h 53	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n21	18s28	3n30	8n 9	3s16	11n20	1n20	24s35	2s32	19n 7	1s 6	5s33	2s16	10s 3	0n32	21s15	1n27	11n53	10s47	21s18	21s15	13s47	10n55	6s17			
S 2	8 0	15 39	4 9	8 37	2 58	10 54	1 20	24 40	2 31	19 8	1 6	5 35	2 16	10 4	0 32	21 15	1 27	11 53	10 47	21 17	21 14	13 45	10 53	6 17			
M 3	7 38	12 13	4 38	9 4	2 40	10 27	1 21	24 44	2 31	19 9	1 6	5 37	2 16	10 5	0 32	21 15	1 27	11 53	10 47	21 15	21 14	13 43	10 51	6 17			
T 4	7 16	8 17	4 56	9 29	2 22	10 0	1 22	24 48	2 31	19 9	1 6	5 39	2 16	10 6	0 32	21 15	1 27	11 53	10 47	21 13	21 13	13 41	10 49	6 17			
W 5	6 54	4 0	5 0	9 52	2 3	9 33	1 22	24 52	2 30	19 10	1 6	5 40	2 16	10 8	0 32	21 15	1 27	11 52	10 47	21 11	21 13	13 39	10 47	6 17			
T 6	6 32	0n28	4 50	10 12	1 44	9 6	1 23	24 56	2 30	19 10	1 6	5 42	2 16	10 9	0 32	21 15	1 27	11 52	10 48	21 8	21 12	13 37	10 45	6 18			
F 7	6 9	4 58	4 27	10 29	1 25	8 38	1 23	25 0	2 30	19 10	1 6	5 44	2 17	10 10	0 31	21 16	1 27	11 52	10 48	21 6	21 12	13 35	10 43	6 18			
S 8	5 47	9 20	3 51	10 43	1 6	8 10	1 24	25 4	2 29	19 11	1 6	5 46	2 17	10 11	0 31	21 16	1 27	11 52	10 48	21 4	21 11	13 33	10 41	6 18			
S 9	5 24	13 21	3 3	10 53	0 48	7 41	1 24	25 7	2 29	19 11	1 7	5 48	2 17	10 12	0 31	21 16	1 27	11 52	10 48	21 3	21 11	13 31	10 39	6 18			
M10	5 2	16 49	2 5	10 59	0 31	7 13	1 24	25 11	2 29	19 11	1 7	5 50	2 17	10 13	0 31	21 16	1 27	11 52	10 48	21 2	21 10	13 28	10 36	6 19			
T 11	4 39	19 30	1 0	11 2	0 14	6 44	1 25	25 14	2 28	19 12	1 7	5 52	2 17	10 14	0 31	21 16	1 27	11 51	10 49	21 1	21 9	13 26	10 34	6 19			
W12	4 16	21 12	0s10	11 1	0n 2	6 15	1 25	25 17	2 28	19 12	1 7	5 53	2 17	10 15	0 31	21 16	1 27	11 51	10 49	21 1	21 9	13 24	10 32	6 19			
T 13	3 53	21 42	1 21	10 56	0 17	5 46	1 25	25 20	2 27	19 12	1 7	5 55	2 17	10 16	0 31	21 16	1 27	11 51	10 49	21 1	21 8	13 22	10 30	6 20			
F 14	3 30	20 53	2 29	10 47	0 31	5 17	1 25	25 23	2 27	19 12	1 7	5 57	2 17	10 18	0 31	21 16	1 26	11 51	10 49	21 1	21 8	13 20	10 28	6 20			
S 15	3 7	18 44	3 29	10 35	0 44	4 48	1 25	25 26	2 26	19 12	1 7	5 59	2 17	10 19	0 31	21 16	1 26	11 51	10 49	21 1	21 7	13 18	10 26	6 20			
S 16	2 44	15 22	4 18	10 19	0 55	4 18	1 25	25 28	2 26	19 12	1 8	6 1	2 17	10 20	0 31	21 16	1 26	11 50	10 50	21 0	21 7	13 16	10 24	6 21			
M17	2 21	11 0	4 49	9 59	1 6	3 49	1 25	25 30	2 25	19 12	1 8	6 3	2 17	10 21	0 31	21 17	1 26	11 50	10 50	20 59	21 6	13 14	10 22	6 21			
T 18	1 58	5 56	5 2	9 36	1 15	3 19	1 24	25 32	2 25	19 12	1 8	6 5	2 17	10 22	0 31	21 17	1 26	11 50	10 50	20 57	21 5	13 12	10 20	6 21			
W19	1 35	0 31	4 54	9 9	1 23	2 49	1 24	25 34	2 24	19 12	1 8	6 6	2 17	10 23	0 31	21 17	1 26	11 50	10 50	20 55	21 5	13 9	10 17	6 22			
T 20	1 12	4s53	4 27	8 40	1 30	2 19	1 24	25 36	2 24	19 12	1 8	6 8	2 17	10 25	0 31	21 17	1 26	11 50	10 50	20 53	21 4	13 7	10 15	6 22			
F 21	0 48	9 54	3 43	8 8	1 36	1 49	1 23	25 38	2 23	19 12	1 8	6 10	2 17	10 26	0 31	21 17	1 26	11 49	10 50	20 52	21 4	13 5	10 13	6 22			
S 22	0 25	14 14	2 46	7 34	1 41	1 19	1 23	25 39	2 23	19 12	1 8	6 12	2 17	10 27	0 31	21 17	1 26	11 49	10 51	20 50	21 3	13 3	10 11	6 23			
S 23	0 2	17 41	1 41	6 58	1 45	0 48	1 22	25 40	2 22	19 11	1 8	6 14	2 17	10 28	0 31	21 17	1 26	11 49	10 51	20 50	21 2	13 1	10 9	6 23			
M24	0s22	20 4	0 32	6 19	1 48	0 18	1 22	25 41	2 22	19 11	1 9	6 15	2 17	10 30	0 31	21 17	1 26	11 49	10 51	20 49	21 2	12 59	10 7	6 24			
T 25	0 45	21 21	0n36	5 39	1 50	0s12	1 21	25 42	2 21	19 11	1 9	6 17	2 17	10 31	0 31	21 18	1 26	11 49	10 51	20 49	21 1	12 57	10 5	6 24			
W26	1 8	21 32	1 40	4 58	1 51	0 42	1 20	25 43	2 21	19 10	1 9	6 19	2 17	10 32	0 31	21 18	1 26	11 48	10 51	20 49	21 1	12 55	10 3	6 24			
T 27	1 31	20 41	2 39	4 15	1 51	1 13	1 19	25 43	2 20	19 10	1 9	6 20	2 17	10 33	0 31	21 18	1 26	11 48	10 52	20 49	21 0	12 52	10 1	6 25			
F 28	1 55	18 55	3 30	3 31	1 51	1 43	1 19	25 43	2 19	19 10	1 9	6 22	2 17	10 35	0 31	21 18	1 26	11 48	10 52	20 49	21 0	12 50	9 59	6 25			
S 29	2 18	16 21	4 11	2 47	1 50	2 13	1 18	25 43	2 19	19 9	1 9	6 24	2 17	10 36	0 31	21 18	1 26	11 48	10 52	20 49	20 59	12 48	9 57	6 26			
S 30	2s41	13s 7	4n41	2n 1	1n48	2s44	1n17	25s43	2s18	19n 9	1s 9	6s26	2s17	10s37	0n31	21s18	1n26	11n48	10s52	20s48	20s58	12s46	9n55	6s26			

ASTRODIENST EPHEMERIS for the year 2142
geocentric

OCTOBER 2142

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 38 37	7♏45'39	22♏14	0♏54	11♏ 6	29♏41	0°R37	19°R 0	29♏ 2	16♏25	15°R12	3°R10	4♏11	11♏33	15♏58	M 1
T 2	0 42 34	8°44'32	4♏15	2°43	12°21	0♏21	0II35	18♏56	29° 6	16°26	15II12	3♏ 1	4° 7	11°40	16° 4	T 2
W 3	0 46 30	9°43'28	16°25	4°32	13°36	1° 2	0°32	18°51	29° 9	16°27	15°12	2°51	4° 4	11°47	16° 9	W 3
T 4	0 50 27	10°42'26	28°46	6°21	14°51	1°42	0°30	18°47	29°13	16°28	15°11	2°41	4° 1	11°53	16°15	T 4
F 5	0 54 23	11°41'25	11♏18	8° 9	16° 5	2°22	0°27	18°43	29°17	16°29	15°11	2°32	3°58	12° 0	16°20	F 5
S 6	0 58 20	12°40'27	24° 2	9°56	17°20	3° 3	0°24	18°39	29°20	16°31	15°10	2°25	3°55	12° 7	16°25	S 6
S 7	1 2 16	13°39'30	6♏57	11°43	18°35	3°44	0°20	18°35	29°24	16°32	15°10	2°20	3°51	12°14	16°30	S 7
M 8	1 6 13	14°38'36	20° 4	13°29	19°50	4°25	0°17	18°31	29°28	16°33	15°10	2°17	3°48	12°20	16°36	M 8
T 9	1 10 9	15°37'44	3II23	15°14	21° 5	5° 6	0°13	18°28	29°31	16°34	15° 9	2°D16	3°45	12°27	16°41	T 9
W10	1 14 6	16°36'55	16°53	16°58	22°20	5°47	0° 9	18°24	29°35	16°36	15° 9	2°17	3°42	12°34	16°46	W10
T 11	1 18 3	17°36'07	0♏34	18°42	23°34	6°28	0° 5	18°20	29°39	16°37	15° 8	2°18	3°39	12°40	16°50	T 11
F 12	1 21 59	18°35'22	14°29	20°25	24°49	7°10	0° 1	18°16	29°42	16°38	15° 7	2°R19	3°36	12°47	16°55	F 12
S 13	1 25 56	19°34'40	28°35	22° 7	26° 4	7°51	29♏56	18°13	29°46	16°40	15° 7	2°19	3°32	12°54	17° 0	S 13
S 14	1 29 52	20°33'59	12♏52	23°49	27°19	8°33	29°52	18° 9	29°50	16°41	15° 6	2°17	3°29	13° 1	17° 5	S 14
M15	1 33 49	21°33'21	27°17	25°30	28°34	9°15	29°47	18° 6	29°54	16°43	15° 6	2°13	3°26	13° 7	17° 9	M15
T 16	1 37 45	22°32'46	11♏47	27°10	29°49	9°56	29°42	18° 2	29°57	16°44	15° 5	2° 8	3°23	13°14	17°14	T 16
W17	1 41 42	23°32'12	26°16	28°49	1♏ 4	10°38	29°37	17°59	0♏ 1	16°46	15° 4	2° 2	3°20	13°21	17°18	W17
T 18	1 45 38	24°31'41	10♏37	0♏28	2°19	11°21	29°31	17°56	0° 5	16°47	15° 4	1°56	3°17	13°27	17°23	T 18
F 19	1 49 35	25°31'11	24°45	2° 6	3°34	12° 3	29°26	17°53	0° 9	16°49	15° 3	1°51	3°13	13°34	17°27	F 19
S 20	1 53 32	26°30'44	8♏36	3°43	4°49	12°45	29°20	17°50	0°12	16°50	15° 2	1°47	3°10	13°41	17°31	S 20
S 21	1 57 28	27°30'19	22° 5	5°20	6° 4	13°28	29°14	17°47	0°16	16°52	15° 2	1°45	3° 7	13°48	17°35	S 21
M22	2 1 25	28°29'56	5♏12	6°56	7°19	14°10	29° 8	17°44	0°20	16°54	15° 1	1°D45	3° 4	13°54	17°40	M22
T 23	2 5 21	29°29'34	17°57	8°31	8°34	14°53	29° 2	17°41	0°24	16°55	15° 0	1°46	3° 1	14° 1	17°44	T 23
W24	2 9 18	0♏29'15	0♏23	10° 6	9°49	15°36	28°56	17°38	0°28	16°57	14°59	1°47	2°57	14° 8	17°47	W24
T 25	2 13 14	1°28'57	12°34	11°40	11° 4	16°19	28°50	17°35	0°31	16°59	14°59	1°49	2°54	14°14	17°51	T 25
F 26	2 17 11	2°28'41	24°34	13°13	12°19	17° 2	28°43	17°33	0°35	17° 0	14°58	1°50	2°51	14°21	17°55	F 26
S 27	2 21 7	3°28'26	6♏27	14°47	13°33	17°45	28°36	17°30	0°39	17° 2	14°57	1°R50	2°48	14°28	17°59	S 27
S 28	2 25 4	4°28'14	18°20	16°19	14°48	18°28	28°30	17°28	0°43	17° 4	14°56	1°49	2°45	14°35	18° 2	S 28
M29	2 29 1	5°28'02	0♏15	17°51	16° 3	19°11	28°23	17°26	0°46	17° 6	14°55	1°47	2°42	14°41	18° 6	M29
T 30	2 32 57	6°27'53	12°19	19°23	17°18	19°54	28°16	17°23	0°50	17° 8	14°55	1°44	2°38	14°48	18° 9	T 30
W31	2 36 54	7♏27'45	24♏33	20♏53	18♏33	20♏38	28♏ 9	17♏21	0♏54	17♏ 9	14II54	1♏40	2♏35	14♏55	18♏12	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
M 1	3s 5	9s21	5n 0	1n16	1n46	3s14	1n16	25s43	2s18	19n 8	1s 9	6s27	2s17	10s38	0n31	21s19	1n26	11n47	10s52	20s46	20s58	12s44	9n53	6s26			
T 2	3 28	5 12	5 5	0 30	1 43	3 44	1 15	25 42	2 17	19 7	1 9	6 29	2 17	10 40	0 31	21 19	1 26	11 47	10 53	20 45	20 57	12 42	9 51	6 27			
W 3	3 51	0 48	4 57	0s17	1 39	4 14	1 13	25 41	2 16	19 7	1 10	6 30	2 17	10 41	0 31	21 19	1 25	11 47	10 53	20 43	20 57	12 40	9 49	6 27			
T 4	4 14	3n43	4 35	1 3	1 36	4 44	1 12	25 40	2 16	19 6	1 10	6 32	2 17	10 42	0 31	21 19	1 25	11 47	10 53	20 41	20 56	12 38	9 47	6 28			
F 5	4 37	8 8	3 59	1 50	1 31	5 14	1 11	25 39	2 15	19 5	1 10	6 33	2 17	10 44	0 31	21 19	1 25	11 46	10 53	20 39	20 55	12 35	9 45	6 28			
S 6	5 0	12 16	3 11	2 36	1 27	5 44	1 10	25 38	2 14	19 5	1 10	6 35	2 17	10 45	0 31	21 19	1 25	11 46	10 53	20 38	20 55	12 33	9 43	6 29			
S 7	5 23	15 54	2 12	3 22	1 22	6 14	1 8	25 36	2 14	19 4	1 10	6 36	2 17	10 46	0 31	21 19	1 25	11 46	10 53	20 37	20 54	12 31	9 41	6 29			
M 8	5 46	18 48	1 5	4 8	1 17	6 43	1 7	25 34	2 13	19 3	1 10	6 38	2 17	10 47	0 31	21 20	1 25	11 46	10 54	20 36	20 54	12 29	9 39	6 30			
T 9	6 9	20 43	0s 6	4 54	1 11	7 13	1 5	25 32	2 12	19 2	1 10	6 39	2 17	10 49	0 31	21 20	1 25	11 46	10 54	20 36	20 53	12 27	9 37	6 30			
W10	6 32	21 29	1 18	5 39	1 5	7 42	1 4	25 29	2 12	19 1	1 10	6 41	2 17	10 50	0 31	21 20	1 25	11 45	10 54	20 36	20 52	12 25	9 35	6 31			
T 11	6 54	20 58	2 27	6 24	0 59	8 11	1 2	25 27	2 11	19 0	1 10	6 42	2 17	10 51	0 31	21 20	1 25	11 45	10 54	20 36	20 52	12 23	9 33	6 31			
F 12	7 17	19 11	3 28	7 9	0 53	8 40	1 0	25 24	2 10	18 59	1 10	6 44	2 16	10 53	0 31	21 20	1 25	11 45	10 54	20 37	20 51	12 20	9 31	6 32			
S 13	7 39	16 13	4 18	7 53	0 47	9 9	0 59	25 21	2 10	18 58	1 10	6 45	2 16	10 54	0 31	21 21	1 25	11 45	10 54	20 36	20 51	12 18	9 29	6 32			
S 14	8 2	12 16	4 52	8 36	0 41	9 37	0 57	25 17	2 9	18 57	1 10	6 46	2 16	10 55	0 31	21 21	1 25	11 45	10 55	20 36	20 50	12 16	9 27	6 33			
M15	8 24	7 34	5 9	9 19	0 34	10 6	0 55	25 14	2 8	18 56	1 11	6 47	2 16	10 57	0 31	21 21	1 25	11 44	10 55	20 35	20 49	12 14	9 25	6 33			
T 16	8 46	2 26	5 5	10 1	0 28	10 34	0 53	25 10	2 7	18 55	1 11	6 49	2 16	10 58	0 31	21 21	1 25	11 44	10 55	20 34	20 49	12 12	9 24	6 34			
W17	9 8	2s50	4 43	10 43	0 21	11 2	0 52	25 6	2 7	18 54	1 11	6 50	2 16	10 59	0 31	21 21	1 25	11 44	10 55	20 33	20 48	12 10	9 22	6 34			
T 18	9 30	7 55	4 2	11 24	0 14	11 29	0 50	25 2	2 6	18 53	1 11	6 51	2 16	11 1	0 31	21 22	1 25	11 44	10 55	20 32	20 48	12 7	9 20	6 35			
F 19	9 52	12 29	3 8	12 5	0 7	11 57	0 48	24 57	2 5	18 52	1 11	6 52	2 16	11 2	0 31	21 22	1 25	11 43	10 55	20 31	20 47	12 5	9 18	6 36			
S 20	10 13	16 18	2 3	12 44	0 1	12 24	0 46	24 52	2 4	18 50	1 11	6 53	2 16	11 3	0 31	21 22	1 25	11 43	10 55	20 30	20 46	12 3	9 16	6 36			
S 21	10 35	19 7	0 53	13 23	0s 6	12 51	0 44	24 47	2 4	18 49	1 11	6 54	2 16	11 5	0 31	21 22	1 25	11 43	10 56	20 30	20 46	12 1	9 15	6 37			
M22	10 56	20 50	0n19	14 1	0 13	13 17	0 42	24 42	2 3	18 48	1 11	6 55	2 15	11 6	0 31	21 22	1 25	11 43	10 56	20 30	20 45	11 59	9 13	6 37			
T 23	11 17	21 25	1 27	14 39	0 20	13 43	0 40	24 37	2 2	18 46	1 11	6 56	2 15	11 7	0 31	21 22	1 25	11 43	10 56	20 30	20 45	11 57	9 11	6 38			
W24	11 38	20 55	2 30	15 15	0 27	14 9	0 37	24 31	2 1	18 45	1 11	6 57	2 15	11 9	0 31	21 23	1 25	11 42	10 56	20 30	20 44	11 54	9 9	6 38			
T 25	11 59	19 25	3 25	15 51	0 34	14 35	0 35	24 25	2 1	18 44	1 11	6 58	2 15	11 10	0 31	21 23	1 24	11 42	10 56	20 30	20 43	11 52	9 8	6 39			
F 26	12 19	17 5	4 10	16 26	0 40	15 0	0 33	24 19	2 0	18 42	1 11	6 59	2 15	11 11	0 31	21 23	1 24	11 42	10 56	20 31	20 43	11 50	9 6	6 40			
S 27	12 40	14 4	4 44	17 0	0 47	15 24	0 31	24 12	1 59	18 41	1 11	7 0	2 15	11 13	0 31	21 23	1 24	11 42	10 56	20 31	20 42	11 48	9 4	6 40			
S 28	13 0	10 29	5 5	17 34	0 54	15 49	0 28	24 6	1 58	18 39	1 11	7 1	2 15	11 14	0 31	21 24	1 24	11 42	10 56	20 31	20 41	11 46	9 3	6 41			
M29	13 20	6 29	5 14	18 6	1 0	16 13	0 26	23 59	1 57	18 38	1 11	7 2	2 15	11 15	0 31	21 24	1 24	11 41	10 57	20 30	20 41	11 44	9 1	6 41			
T 30	13 40	2 11	5 8	18 38	1 7	16 36	0 24	23 52	1 56	18 36	1 11	7 2	2 14	11 17	0 31	21 24	1 24	11 41	10 57	20 29	20 40	11 41	9 0	6 42			
W31	13s59	2n16	4n49	19s 8	1s13	16s59	0n22	23s44	1s56	18n35	1s11	7s 3	2s14	11s18	0n31	21s24	1n24	11n41	10s57	20s29	20s40	11s39	8n58	6s43			

ASTRODIENST EPHEMERIS for the year 2142

geocentric

NOVEMBER 2142

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 40 50	8♂27°39	7♀ 2	22♂24	19♂48	21♂21	28°R 1	17°R19	0♂58	17♂11	14°R53	1°R36	2♂32	15♂1	18♂15	T 1
F 2	2 44 47	9°27'35	19°46	23°54	21° 3	22° 5	27♂54	17♂17	1° 2	17°13	14♂52	1♂33	2°29	15° 8	18°18	F 2
S 3	2 48 43	10°27'33	2♂47	25°23	22°18	22°48	27°47	17°16	1° 5	17°15	14°51	1°30	2°26	15°15	18°21	S 3
S 4	2 52 40	11°27'32	16° 4	26°52	23°33	23°32	27°39	17°14	1° 9	17°17	14°50	1°28	2°23	15°22	18°24	S 4
M 5	2 56 36	12°27'34	29°36	28°20	24°48	24°16	27°31	17°12	1°13	17°19	14°49	1°D27	2°19	15°28	18°27	M 5
T 6	3 0 33	13°27'37	13♂20	29°48	26° 3	25° 0	27°24	17°11	1°16	17°21	14°48	1°28	2°16	15°35	18°30	T 6
W 7	3 4 30	14°27'42	27°15	1♂15	27°18	25°44	27°16	17° 9	1°20	17°23	14°47	1°29	2°13	15°42	18°32	W 7
T 8	3 8 26	15°27'50	11♂17	2°42	28°33	26°28	27° 8	17° 8	1°24	17°25	14°46	1°30	2°10	15°48	18°35	T 8
F 9	3 12 23	16°27'59	25°25	4° 8	29°48	27°12	27° 0	17° 7	1°28	17°27	14°45	1°31	2° 7	15°55	18°37	F 9
S 10	3 16 19	17°28'11	9♂36	5°33	1♂ 3	27°56	26°52	17° 5	1°31	17°29	14°44	1°32	2° 3	16° 2	18°40	S 10
S 11	3 20 16	18°28'25	23°48	6°58	2°18	28°40	26°44	17° 4	1°35	17°31	14°43	1°R32	2° 0	16° 9	18°42	S 11
M12	3 24 12	19°28'40	7♂58	8°22	3°33	29°25	26°36	17° 3	1°39	17°33	14°42	1°31	1°57	16°15	18°44	M12
T 13	3 28 9	20°28'58	22° 5	9°45	4°48	0♂ 9	26°28	17° 3	1°42	17°35	14°41	1°30	1°54	16°22	18°46	T 13
W14	3 32 5	21°29'18	6♂ 6	11° 7	6° 3	0°53	26°20	17° 2	1°46	17°37	14°40	1°29	1°51	16°29	18°48	W14
T 15	3 36 2	22°29'39	19°58	12°28	7°18	1°38	26°12	17° 1	1°49	17°39	14°39	1°28	1°48	16°36	18°50	T 15
F 16	3 39 58	23°30'03	3♂38	13°49	8°33	2°22	26° 4	17° 1	1°53	17°41	14°38	1°27	1°44	16°42	18°52	F 16
S 17	3 43 55	24°30'28	17° 5	15° 8	9°48	3° 7	25°56	17° 0	1°57	17°43	14°37	1°26	1°41	16°49	18°53	S 17
S 18	3 47 52	25°30'55	0♂16	16°25	11° 3	3°52	25°47	17° 0	2° 0	17°45	14°36	1°D26	1°38	16°56	18°55	S 18
M19	3 51 48	26°31'23	13°11	17°41	12°18	4°36	25°39	17° 0	2° 4	17°47	14°35	1°26	1°35	17° 2	18°56	M19
T 20	3 55 45	27°31'53	25°49	18°56	13°33	5°21	25°31	17°D 0	2° 7	17°49	14°34	1°26	1°32	17° 9	18°57	T 20
W21	3 59 41	28°32'25	8♂12	20° 8	14°48	6° 6	25°23	17° 0	2°11	17°52	14°33	1°27	1°29	17°16	18°59	W21
T 22	4 3 38	29°32'58	20°22	21°18	16° 3	6°51	25°15	17° 0	2°14	17°54	14°32	1°27	1°25	17°23	19° 0	T 22
F 23	4 7 34	0♂33'32	2♂23	22°26	17°18	7°36	25° 7	17° 0	2°18	17°56	14°31	1°27	1°22	17°29	19° 1	F 23
S 24	4 11 31	1°34'07	14°16	23°31	18°33	8°21	24°58	17° 0	2°21	17°58	14°29	1°R27	1°19	17°36	19° 2	S 24
S 25	4 15 28	2°34'44	26° 8	24°33	19°48	9° 6	24°50	17° 1	2°24	18° 0	14°28	1°27	1°16	17°43	19° 2	S 25
M26	4 19 24	3°35'21	8♂ 3	25°31	21° 3	9°51	24°42	17° 1	2°28	18° 3	14°27	1°D27	1°13	17°49	19° 3	M26
T 27	4 23 21	4°36'00	20° 5	26°25	22°18	10°36	24°34	17° 2	2°31	18° 5	14°26	1°27	1° 9	17°56	19° 4	T 27
W28	4 27 17	5°36'40	2♀19	27°14	23°33	11°21	24°27	17° 3	2°34	18° 7	14°25	1°28	1° 6	18° 3	19° 4	W28
T 29	4 31 14	6°37'21	14°50	27°58	24°48	12° 6	24°19	17° 3	2°38	18° 9	14°24	1°28	1° 3	18°10	19° 4	T 29
F 30	4 35 10	7♂38'03	27♀39	28♂36	26♂ 3	12♂51	24♂11	17♂ 4	2♂41	18♂11	14♂23	1♂29	1♂ 0	18♂16	19♂ 5	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	14s19	6n43	4n16	19s38	1s19	17s22	0n19	23s37	1s55	18n33	1s11	7s 4	2s14	11s19	0n31	21s24	1n24	11n41	10s57	20s28	20s39	11s37	8n56	6s43	
F 2	14 38	10 58	3 30	20 6	1 25	17 44	0 17	23 29	1 54	18 31	1 11	7 4	2 14	11 21	0 31	21 25	1 24	11 41	10 57	20 27	20 38	11 35	8 55	6 44	
S 3	14 57	14 48	2 31	20 34	1 31	18 6	0 14	23 21	1 53	18 30	1 11	7 5	2 14	11 22	0 31	21 25	1 24	11 40	10 57	20 27	20 38	11 33	8 53	6 44	
S 4	15 15	17 58	1 24	21 1	1 37	18 27	0 12	23 13	1 52	18 28	1 11	7 5	2 14	11 23	0 31	21 25	1 24	11 40	10 57	20 26	20 37	11 31	8 52	6 45	
M 5	15 34	20 13	0 10	21 26	1 43	18 48	0 10	23 4	1 51	18 26	1 11	7 6	2 13	11 24	0 31	21 25	1 24	11 40	10 57	20 26	20 37	11 28	8 51	6 46	
T 6	15 52	21 18	1s 5	21 51	1 48	19 8	0 7	22 55	1 50	18 25	1 11	7 6	2 13	11 26	0 31	21 25	1 24	11 40	10 57	20 26	20 36	11 26	8 49	6 46	
W 7	16 10	21 6	2 18	22 15	1 53	19 28	0 5	22 46	1 50	18 23	1 11	7 7	2 13	11 27	0 31	21 26	1 24	11 40	10 57	20 26	20 35	11 24	8 48	6 47	
T 8	16 27	19 34	3 23	22 37	1 58	19 47	0 2	22 37	1 49	18 21	1 11	7 7	2 13	11 28	0 31	21 26	1 24	11 40	10 58	20 27	20 35	11 22	8 46	6 48	
F 9	16 45	16 51	4 16	22 58	2 3	20 6	0s 0	22 28	1 48	18 20	1 11	7 8	2 13	11 30	0 31	21 26	1 24	11 39	10 58	20 27	20 34	11 20	8 45	6 48	
S 10	17 2	13 7	4 54	23 19	2 8	20 24	0 3	22 18	1 47	18 18	1 11	7 8	2 13	11 31	0 31	21 26	1 24	11 39	10 58	20 27	20 33	11 17	8 44	6 49	
S 11	17 19	8 38	5 13	23 38	2 12	20 41	0 5	22 8	1 46	18 16	1 11	7 8	2 13	11 32	0 31	21 26	1 24	11 39	10 58	20 27	20 33	11 15	8 42	6 50	
M12	17 35	3 42	5 14	23 55	2 16	20 58	0 8	21 58	1 45	18 14	1 11	7 8	2 12	11 33	0 31	21 27	1 24	11 39	10 58	20 27	20 32	11 13	8 41	6 50	
T 13	17 51	1s24	4 56	24 12	2 20	21 15	0 10	21 48	1 44	18 12	1 10	7 9	2 12	11 35	0 31	21 27	1 24	11 39	10 58	20 27	20 31	11 11	8 40	6 51	
W14	18 7	6 24	4 21	24 27	2 23	21 31	0 13	21 37	1 43	18 11	1 10	7 9	2 12	11 36	0 31	21 27	1 24	11 38	10 58	20 26	20 31	11 9	8 39	6 52	
T 15	18 23	11 2	3 30	24 41	2 26	21 46	0 15	21 27	1 42	18 9	1 10	7 9	2 12	11 37	0 31	21 27	1 24	11 38	10 58	20 26	20 30	11 7	8 38	6 52	
F 16	18 38	15 2	2 28	24 54	2 29	22 0	0 18	21 16	1 41	18 7	1 10	7 9	2 12	11 38	0 31	21 28	1 24	11 38	10 58	20 26	20 30	11 4	8 36	6 53	
S 17	18 53	18 11	1 19	25 6	2 31	22 14	0 20	21 4	1 41	18 5	1 10	7 9	2 11	11 40	0 31	21 28	1 24	11 38	10 58	20 26	20 29	11 2	8 35	6 54	
S 18	19 7	20 18	0 6	25 16	2 33	22 27	0 23	20 53	1 40	18 3	1 10	7 9	2 11	11 41	0 31	21 28	1 24	11 38	10 58	20 26	20 28	11 0	8 34	6 54	
M19	19 22	21 17	1n 5	25 25	2 34	22 40	0 25	20 41	1 39	18 2	1 10	7 9	2 11	11 42	0 31	21 28	1 24	11 38	10 58	20 26	20 28	10 58	8 33	6 55	
T 20	19 36	21 10	2 11	25 32	2 35	22 52	0 28	20 30	1 38	18 0	1 10	7 9	2 11	11 43	0 31	21 28	1 24	11 38	10 58	20 26	20 27	10 56	8 32	6 56	
W21	19 49	20 0	3 10	25 38	2 35	23 3	0 30	20 18	1 37	17 58	1 10	7 8	2 11	11 44	0 31	21 29	1 24	11 37	10 58	20 26	20 26	10 53	8 31	6 56	
T 22	20 2	17 56	3 59	25 43	2 35	23 14	0 33	20 5	1 36	17 56	1 9	7 8	2 11	11 46	0 31	21 29	1 24	11 37	10 58	20 26	20 26	10 51	8 30	6 57	
F 23	20 15	15 6	4 37	25 46	2 34	23 24	0 35	19 53	1 35	17 54	1 9	7 8	2 10	11 47	0 31	21 29	1 24	11 37	10 58	20 26	20 25	10 49	8 29	6 58	
S 24	20 27	11 42	5 3	25 48	2 32	23 33	0 37	19 40	1 34	17 52	1 9	7 8	2 10	11 48	0 31	21 29	1 24	11 37	10 58	20 26	20 24	10 47	8 28	6 58	
S 25	20 40	7 50	5 16	25 48	2 30	23 41	0 40	19 28	1 33	17 51	1 9	7 7	2 10	11 49	0 31	21 29	1 24	11 37	10 58	20 26	20 24	10 45	8 27	6 59	
M26	20 51	3 40	5 15	25 47	2 26	23 49	0 42	19 15	1 32	17 49	1 9	7 7	2 10	11 50	0 31	21 30	1 24	11 37	10 58	20 26	20 23	10 42	8 27	7 0	
T 27	21 2	0n41	5 1	25 44	2 22	23 56	0 44	19 2	1 31	17 47	1 9	7 7	2 10	11 51	0 31	21 30	1 24	11 37	10 58	20 26	20 22	10 40	8 26	7 0	
W28	21 13	5 5	4 33	25 40	2 17	24 2	0 47	18 48	1 30	17 45	1 9	7 6	2 10	11 52	0 31	21 30	1 24	11 36	10 58	20 26	20 22	10 38	8 25	7 1	
T 29	21 24	9 23	3 51	25 35	2 11	24 8	0 49	18 35	1 29	17 44	1 8	7 6	2 9	11 54	0 31	21 30	1 24	11 36	10 58	20 26	20 21	10 36	8 24	7 2	
F 30	21s34	13n23	2n57	25s28	2s 3	24s13	0s51	18s21	1s28	17n42	1s 8	7s 5	2s 9	11s55	0n31	21s31	1n24	11n36	10s58	20s26	20s21	10s34	8n24	7s 2	

ASTRODIENST EPHEMERIS for the year 2142
geocentric

DECEMBER 2142

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 39 7	8°38'47	10♌50	29♌7	27♌18	13♌36	24°R 3	17♌5	2♌44	18♌14	14°R22	1♌29	0♌57	18♌23	19♌5	S 1
S 2	4 43 3	9°39'31	24°23	29°31	28°33	14°22	23♌56	17° 7	2°48	18°16	14♌20	1°30	0°54	18°30	19°R 5	S 2
M 3	4 47 0	10°40'17	8♌17	29°46	29°47	15° 7	23°48	17° 8	2°51	18°18	14°19	1°R30	0°50	18°36	19° 5	M 3
T 4	4 50 57	11°41'04	22°28	29°R53	1♌2	15°52	23°41	17° 9	2°54	18°20	14°18	1°29	0°47	18°43	19° 5	T 4
W 5	4 54 53	12°41'52	6♌53	29°49	2°17	16°38	23°34	17°11	2°57	18°23	14°17	1°28	0°44	18°50	19° 4	W 5
T 6	4 58 50	13°42'41	21°24	29°35	3°32	17°23	23°26	17°12	3° 0	18°25	14°16	1°27	0°41	18°57	19° 4	T 6
F 7	5 2 46	14°43'32	5♌58	29° 9	4°47	18° 8	23°19	17°14	3° 3	18°27	14°15	1°25	0°38	19° 3	19° 3	F 7
S 8	5 6 43	15°44'24	20°27	28°33	6° 2	18°54	23°12	17°16	3° 6	18°29	14°14	1°24	0°34	19°10	19° 3	S 8
S 9	5 10 39	16°45'17	4♌47	27°45	7°17	19°39	23° 5	17°18	3° 9	18°32	14°12	1°23	0°31	19°17	19° 2	S 9
M10	5 14 36	17°46'12	18°56	26°47	8°32	20°25	22°59	17°20	3°12	18°34	14°11	1°D22	0°28	19°24	19° 1	M10
T 11	5 18 32	18°47'07	2♌51	25°40	9°47	21°10	22°52	17°22	3°15	18°36	14°10	1°23	0°25	19°30	19° 0	T 11
W12	5 22 29	19°48'05	16°32	24°25	11° 2	21°56	22°45	17°24	3°18	18°38	14° 9	1°24	0°22	19°37	18°59	W12
T 13	5 26 26	20°49'03	29°59	23° 5	12°17	22°41	22°39	17°26	3°21	18°41	14° 8	1°25	0°19	19°44	18°58	T 13
F 14	5 30 22	21°50'02	13♌13	21°42	13°31	23°27	22°33	17°29	3°24	18°43	14° 7	1°27	0°15	19°50	18°57	F 14
S 15	5 34 19	22°51'03	26°14	20°20	14°46	24°12	22°27	17°31	3°27	18°45	14° 6	1°R28	0°12	19°57	18°56	S 15
S 16	5 38 15	23°52'05	9♌3	19° 0	16° 1	24°58	22°21	17°34	3°29	18°48	14° 4	1°27	0° 9	20° 4	18°54	S 16
M17	5 42 12	24°53'07	21°40	17°46	17°16	25°43	22°15	17°37	3°32	18°50	14° 3	1°26	0° 6	20°11	18°53	M17
T 18	5 46 8	25°54'10	4♌5	16°39	18°31	26°29	22°10	17°39	3°35	18°52	14° 2	1°23	0° 3	20°17	18°51	T 18
W19	5 50 5	26°55'14	16°20	15°42	19°46	27°15	22° 4	17°42	3°37	18°54	14° 1	1°20	29♌59	20°24	18°49	W19
T 20	5 54 1	27°56'18	28°26	14°55	21° 1	28° 0	21°59	17°45	3°40	18°57	14° 0	1°15	29°56	20°31	18°47	T 20
F 21	5 57 58	28°57'23	10♌24	14°18	22°15	28°46	21°54	17°48	3°43	18°59	13°59	1°10	29°53	20°37	18°45	F 21
S 22	6 1 55	29°58'29	22°17	13°53	23°30	29°32	21°49	17°52	3°45	19° 1	13°58	1° 5	29°50	20°44	18°43	S 22
S 23	6 5 51	0♌39'34	4♌8	13°39	24°45	0♌17	21°44	17°55	3°47	19° 3	13°57	1° 1	29°47	20°51	18°41	S 23
M24	6 9 48	2° 0'40	16° 1	13°D35	26° 0	1° 3	21°40	17°58	3°50	19° 5	13°56	0°58	29°44	20°58	18°39	M24
T 25	6 13 44	3° 1'46	28° 0	13°41	27°15	1°49	21°35	18° 2	3°52	19° 8	13°55	0°D57	29°40	21° 4	18°37	T 25
W26	6 17 41	4° 2'53	10♌10	13°55	28°29	2°34	21°31	18° 5	3°55	19°10	13°53	0°57	29°37	21°11	18°34	W26
T 27	6 21 37	5° 3'59	22°35	14°18	29°44	3°20	21°27	18° 9	3°57	19°12	13°52	0°58	29°34	21°18	18°32	T 27
F 28	6 25 34	6° 5'06	5♌21	14°48	0♌59	4° 6	21°23	18°13	3°59	19°14	13°51	1° 0	29°31	21°25	18°29	F 28
S 29	6 29 30	7° 6'12	18°31	15°25	2°13	4°51	21°19	18°17	4° 1	19°16	13°50	1° 1	29°28	21°31	18°27	S 29
S 30	6 33 27	8° 7'19	2♌8	16° 7	3°28	5°37	21°16	18°20	4° 4	19°19	13°49	1°R 2	29°25	21°38	18°24	S 30
M31	6 37 24	9♌8'26	16♌12	16♌55	4♌43	6♌23	21♌13	18♌25	4♌6	19♌21	13♌48	1♌1	29♌21	21♌45	18♌21	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	21s44	16n50	1n52	25s20	1s55	24s17	0s54	18s 7	1s27	17n40	1s 8	7s 4	2s 9	11s56	0n31	21s31	1n23	11n36	10s58	20s27	20s20	10s31	8n23	7s 3	
S 2	21 53	19 29	0 39	25 10	1 45	24 20	0 56	17 53	1 26	17 39	1 8	7 4	2 9	11 57	0 31	21 31	1 23	11 36	10 58	20 27	20 19	10 29	8 22	7 4	
M 3	22 2	21 3	0s38	24 59	1 33	24 23	0 58	17 39	1 25	17 37	1 8	7 3	2 9	11 58	0 31	21 31	1 23	11 36	10 58	20 27	20 19	10 27	8 22	7 4	
T 4	22 10	21 19	1 54	24 46	1 21	24 25	1 0	17 24	1 24	17 35	1 8	7 2	2 8	11 59	0 31	21 31	1 23	11 36	10 58	20 27	20 18	10 25	8 21	7 5	
W 5	22 18	20 11	3 4	24 32	1 7	24 26	1 2	17 10	1 23	17 34	1 7	7 2	2 8	12 0	0 31	21 32	1 23	11 36	10 58	20 26	20 17	10 22	8 21	7 6	
T 6	22 26	17 44	4 2	24 16	0 51	24 27	1 4	16 55	1 22	17 32	1 7	7 1	2 8	12 1	0 31	21 32	1 23	11 36	10 58	20 26	20 17	10 20	8 20	7 6	
F 7	22 33	14 9	4 46	23 59	0 34	24 26	1 6	16 40	1 21	17 30	1 7	7 0	2 8	12 2	0 31	21 32	1 23	11 36	10 58	20 26	20 16	10 18	8 20	7 7	
S 8	22 39	9 45	5 10	23 41	0 16	24 25	1 8	16 25	1 20	17 29	1 7	6 59	2 8	12 3	0 31	21 32	1 23	11 35	10 58	20 25	20 15	10 16	8 19	7 8	
S 9	22 46	4 51	5 15	23 21	0n 3	24 23	1 10	16 10	1 19	17 27	1 7	6 58	2 8	12 4	0 31	21 32	1 23	11 35	10 58	20 25	20 15	10 14	8 19	7 8	
M10	22 51	0s15	5 1	23 0	0 23	24 21	1 12	15 55	1 18	17 26	1 6	6 57	2 7	12 5	0 31	21 33	1 23	11 35	10 58	20 25	20 14	10 11	8 18	7 9	
T 11	22 57	5 15	4 30	22 38	0 43	24 17	1 14	15 39	1 17	17 24	1 6	6 56	2 7	12 6	0 31	21 33	1 23	11 35	10 58	20 25	20 13	10 9	8 18	7 9	
W12	23 2	9 56	3 43	22 15	1 3	24 13	1 16	15 24	1 16	17 23	1 6	6 55	2 7	12 7	0 31	21 33	1 23	11 35	10 58	20 25	20 13	10 7	8 18	7 10	
T 13	23 6	14 2	2 45	21 51	1 23	24 8	1 18	15 8	1 15	17 22	1 6	6 54	2 7	12 8	0 31	21 33	1 23	11 35	10 58	20 26	20 12	10 5	8 18	7 11	
F 14	23 10	17 22	1 39	21 28	1 42	24 3	1 19	14 52	1 14	17 20	1 5	6 53	2 7	12 9	0 31	21 33	1 23	11 35	10 58	20 26	20 11	10 3	8 17	7 11	
S 15	23 14	19 46	0 29	21 6	1 59	23 56	1 21	14 36	1 14	17 19	1 5	6 52	2 6	12 10	0 31	21 34	1 23	11 35	10 58	20 26	20 11	10 0	8 17	7 12	
S 16	23 17	21 6	0n42	20 44	2 14	23 49	1 22	14 20	1 13	17 18	1 5	6 51	2 6	12 11	0 31	21 34	1 23	11 35	10 58	20 26	20 10	9 58	8 17	7 12	
M17	23 19	21 21	1 49	20 25	2 27	23 42	1 24	14 3	1 12	17 16	1 5	6 50	2 6	12 12	0 31	21 34	1 23	11 35	10 57	20 26	20 9	9 56	8 17	7 13	
T 18	23 21	20 32	2 50	20 8	2 37	23 33	1 26	13 47	1 11	17 15	1 4	6 48	2 6	12 13	0 31	21 34	1 23	11 35	10 57	20 25	20 9	9 54	8 17	7 14	
W19	23 23	18 45	3 42	19 54	2 46	23 24	1 27	13 30	1 10	17 14	1 4	6 47	2 6	12 14	0 31	21 34	1 23	11 35	10 57	20 25	20 8	9 51	8 17	7 14	
T 20	23 24	16 10	4 23	19 43	2 52	23 14	1 28	13 14	1 9	17 13	1 4	6 46	2 6	12 15	0 31	21 34	1 23	11 35	10 57	20 24	20 7	9 49	8 17	7 15	
F 21	23 25	12 55	4 52	19 36	2 55	23 3	1 30	12 57	1 8	17 12	1 4	6 44	2 5	12 15	0 31	21 35	1 23	11 35	10 57	20 23	20 7	9 47	8 17	7 15	
S 22	23 25	9 12	5 9	19 31	2 57	22 52	1 31	12 40	1 7	17 11	1 3	6 43	2 5	12 16	0 31	21 35	1 23	11 35	10 57	20 22	20 6	9 45	8 17	7 16	
S 23	23 25	5 8	5 12	19 29	2 57	22 40	1 32	12 23	1 6	17 10	1 3	6 42	2 5	12 17	0 31	21 35	1 23	11 35	10 57	20 21	20 5	9 43	8 17	7 16	
M24	23 24	0 52	5 2	19 31	2 55	22 28	1 33	12 6	1 5	17 9	1 3	6 40	2 5	12 18	0 31	21 35	1 23	11 35	10 57	20 20	20 5	9 40	8 17	7 17	
T 25	23 23	3n28	4 39	19 34	2 52	22 14	1 34	11 49	1 4	17 8	1 3	6 39	2 5	12 19	0 31	21 35	1 23	11 35	10 57	20 20	20 4	9 38	8 17	7 18	
W26	23 21	7 44	4 2	19 40	2 48	22 0	1 35	11 31	1 3	17 7	1 2	6 37	2 5	12 19	0 31	21 36	1 23	11 35	10 57	20 20	20 3	9 36	8 18	7 18	
T 27	23 19	11 47	3 14	19 48	2 43	21 46	1 36	11 14	1 2	17 7	1 2	6 35	2 4	12 20	0 31	21 36	1 23	11 35	10 56	20 20	20 2	9 34	8 18	7 19	
F 28	23 17	15 25	2 15	19 57	2 37	21 30	1 37	10 57	1 1	17 6	1 2	6 34	2 4	12 21	0 31	21 36	1 23	11 35	10 56	20 20	20 2	9 31	8 18	7 19	
S 29	23 14	18 24	1 8	20 8	2 30	21 14	1 38	10 39	1 0	17 5	1 2	6 32	2 4	12 22	0 31	21 36	1 23	11 35	10 56	20 21	20 1	9 29	8 18	7 20	
S 30	23 10	20 28	0s 6	20 19	2 23	20 58	1 39	10 21	0 59	17 4	1 1	6 30	2 4	12 22	0 31	21 36	1 23	11 35	10 56	20 21	20 0	9 27	8 19	7 20	
M31	23s 6	21n21	1s22	20s32	2n15	20s41	1s39	10s 4	0s58	17n 4	1s 1	6s29	2s 4	12s23	0n31	21s36	1n23	11n35	10s56	20s21	20s 0	9s25	8n19	7s21	