



Astrodienst Ephemeris Tables for the year 2228

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 2228
geocentric

JANUARY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 39 0	9°30'28	14°28	22°R28	25°22	8°R43	6°R54	13°28	9°M47	26°R19	25°26	6°D26	5°21	0°29	7°R16	T 1
W 2	6 42 57	10°31'36	26°21	22°18	26°10	8°II34	6°II48	13° 6	9°49	26°II18	25° 7	6°26	5°18	0°35	7°15	W 2
T 3	6 46 53	11°32'45	8°M25	22°D18	27°17	8°25	6°41	13°13	9°51	26°16	25° 8	6°R27	5°15	0°42	7°14	T 3
F 4	6 50 50	12°33'54	20°44	22°26	28°25	8°18	6°34	13°19	9°53	26°14	25° 9	6°26	5°12	0°49	7°13	F 4
S 5	6 54 47	13°35'04	3°22	22°43	29°32	8°11	6°27	13°26	9°56	26°13	25°10	6°22	5° 9	0°55	7°12	S 5
S 6	6 58 43	14°36'14	16°22	23° 8	0°39	8° 5	6°21	13°33	9°58	26°11	25°10	6°16	5° 5	1° 2	7°12	S 6
M 7	7 2 40	15°37'24	29°45	23°39	1°46	8° 0	6°13	13°39	10° 0	26°10	25°11	6° 8	5° 2	1° 9	7°11	M 7
T 8	7 6 36	16°38'34	13°31	24°16	2°52	7°56	6° 6	13°46	10° 2	26° 8	25°12	5°57	4°59	1°15	7°10	T 8
W 9	7 10 33	17°39'45	27°35	24°59	3°59	7°53	5°59	13°52	10° 4	26° 7	25°13	5°45	4°56	1°22	7°10	W 9
T 10	7 14 29	18°40'55	11°52	25°47	5° 5	7°50	5°52	13°59	10° 6	26° 5	25°13	5°33	4°53	1°29	7° 9	T 10
F 11	7 18 26	19°42'05	26°17	26°39	6°11	7°48	5°44	14° 6	10° 8	26° 3	25°14	5°23	4°49	1°35	7° 9	F 11
S 12	7 22 23	20°43'14	10°44	27°35	7°16	7°47	5°37	14°13	10°10	26° 2	25°15	5°15	4°46	1°42	7° 9	S 12
S 13	7 26 19	21°44'23	25° 6	28°35	8°22	7°D47	5°29	14°19	10°11	26° 0	25°15	5°10	4°43	1°49	7° 8	S 13
M14	7 30 16	22°45'32	9°21	29°38	9°27	7°48	5°21	14°26	10°13	25°59	25°16	5° 8	4°40	1°55	7° 8	M14
T 15	7 34 12	23°46'40	23°26	0°343	10°31	7°49	5°14	14°33	10°15	25°57	25°16	5°D 7	4°37	2° 2	7° 8	T 15
W16	7 38 9	24°47'48	7°22	1°51	11°36	7°51	5° 6	14°40	10°16	25°56	25°17	5°R 7	4°34	2° 9	7° 8	W16
T 17	7 42 5	25°48'55	21° 7	3° 1	12°40	7°54	4°58	14°47	10°18	25°55	25°17	5° 6	4°30	2°15	7° 8	T 17
F 18	7 46 2	26°50'01	4°II42	4°13	13°44	7°58	4°50	14°54	10°19	25°53	25°17	5° 4	4°27	2°22	7°D 8	F 18
S 19	7 49 58	27°51'07	18° 9	5°27	14°47	8° 2	4°42	15° 1	10°21	25°52	25°18	4°58	4°24	2°29	7° 8	S 19
S 20	7 53 55	28°52'13	1°25	6°43	15°51	8° 7	4°34	15° 8	10°22	25°50	25°18	4°49	4°21	2°35	7° 8	S 20
M21	7 57 52	29°53'18	14°30	8° 0	16°53	8°13	4°26	15°15	10°24	25°49	25°18	4°38	4°18	2°42	7° 8	M21
T 22	8 1 48	0°54'22	27°24	9°19	17°56	8°19	4°18	15°22	10°25	25°48	25°19	4°24	4°15	2°49	7° 8	T 22
W23	8 5 45	1°55'25	10°5	10°39	18°58	8°27	4°10	15°29	10°26	25°46	25°19	4°10	4°11	2°55	7° 8	W23
T 24	8 9 41	2°56'28	22°32	12° 0	20° 0	8°34	4° 2	15°36	10°28	25°45	25°19	3°56	4° 8	3° 2	7° 9	T 24
F 25	8 13 38	3°57'31	4°46	13°22	21° 1	8°43	3°54	15°43	10°29	25°44	25°19	3°44	4° 5	3° 9	7° 9	F 25
S 26	8 17 34	4°58'33	16°49	14°45	22° 2	8°52	3°46	15°50	10°30	25°43	25°19	3°34	4° 2	3°15	7°10	S 26
S 27	8 21 31	5°59'34	28°43	16° 9	23° 2	9° 1	3°38	15°57	10°31	25°41	25°19	3°27	3°59	3°22	7°10	S 27
M28	8 25 27	7° 0'35	10°32	17°34	24° 2	9°12	3°30	16° 4	10°32	25°40	25°R19	3°23	3°55	3°29	7°11	M28
T 29	8 29 24	8° 1'36	22°19	18°59	25° 2	9°23	3°22	16°12	10°33	25°39	25°19	3°22	3°52	3°35	7°11	T 29
W30	8 33 21	9° 2'36	4°M11	20°26	26° 1	9°34	3°14	16°19	10°34	25°38	25°19	3°21	3°49	3°42	7°12	W30
T 31	8 37 17	10°33'35	16°M12	21°354	26°59	9°II46	3°12	16°26	10°M35	25°II37	25°19	3°21	3°49	3°42	7°13	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23s 4	3s56	1n55	20s 9	3n 3	14s48	1s44	24n25	2n43	19n 1	0n31	17s40	0s48	14s17	0n28	22n 2
W 2	23 0	9 20	0 54	20 11	3 1	14 22	1 41	24 24	2 44	19 3	0 31	17 38	0 48	14 18	0 28	22 2
T 3	22 55	14 28	0s11	20 15	2 56	13 56	1 38	24 23	2 44	19 5	0 31	17 36	0 48	14 19	0 28	22 2
F 4	22 49	19 8	1 15	20 21	2 51	13 30	1 35	24 22	2 45	19 7	0 31	17 35	0 48	14 19	0 28	22 2
S 5	22 43	23 4	2 18	20 28	2 45	13 3	1 32	24 22	2 45	19 8	0 31	17 33	0 48	14 20	0 28	22 2
S 6	22 37	25 57	3 15	20 36	2 38	12 36	1 28	24 21	2 45	19 10	0 31	17 31	0 48	14 21	0 28	22 2
M 7	22 30	27 28	4 3	20 45	2 31	12 9	1 25	24 20	2 46	19 12	0 32	17 29	0 49	14 21	0 28	22 1
T 8	22 23	27 21	4 39	20 55	2 23	11 42	1 21	24 20	2 46	19 14	0 32	17 27	0 49	14 22	0 28	22 1
W 9	22 15	25 30	4 58	21 5	2 14	11 14	1 17	24 20	2 46	19 16	0 32	17 25	0 49	14 22	0 28	22 1
T 10	22 7	22 0	4 59	21 15	2 5	10 46	1 13	24 19	2 46	19 18	0 32	17 23	0 49	14 23	0 28	22 1
F 11	21 58	17 9	4 42	21 26	1 57	10 18	1 9	24 19	2 46	19 20	0 32	17 21	0 49	14 24	0 28	22 1
S 12	21 49	11 20	4 6	21 36	1 47	9 50	1 4	24 19	2 46	19 22	0 32	17 19	0 49	14 24	0 28	22 1
S 13	21 40	4 55	3 15	21 46	1 38	9 21	1 0	24 19	2 46	19 24	0 33	17 17	0 49	14 25	0 28	22 1
M14	21 30	1n41	2 12	21 56	1 29	8 53	0 55	24 19	2 46	19 26	0 33	17 16	0 49	14 25	0 28	22 1
T 15	21 19	8 9	1 1	22 5	1 20	8 24	0 51	24 19	2 46	19 28	0 33	17 14	0 49	14 26	0 28	22 1
W16	21 9	14 8	0n12	22 13	1 11	7 55	0 46	24 19	2 46	19 30	0 33	17 12	0 49	14 26	0 28	22 1
T 17	20 57	19 22	1 24	22 21	1 2	7 26	0 41	24 20	2 46	19 32	0 33	17 10	0 49	14 27	0 28	22 1
F 18	20 46	23 30	2 30	22 28	0 53	6 57	0 36	24 20	2 46	19 34	0 33	17 8	0 49	14 27	0 28	22 1
S 19	20 34	26 18	3 26	22 34	0 44	6 27	0 31	24 20	2 45	19 36	0 33	17 6	0 49	14 28	0 28	22 1
S 20	20 22	27 35	4 11	22 40	0 35	5 58	0 25	24 21	2 45	19 38	0 34	17 4	0 49	14 28	0 28	22 1
M21	20 9	27 17	4 42	22 44	0 26	5 29	0 20	24 22	2 45	19 41	0 34	17 2	0 49	14 29	0 28	22 1
T 22	19 56	25 31	4 57	22 48	0 18	4 59	0 14	24 22	2 44	19 43	0 34	17 0	0 49	14 29	0 28	22 1
W23	19 43	22 29	4 58	22 50	0 9	4 30	0 9	24 23	2 44	19 45	0 34	16 57	0 49	14 29	0 28	22 1
T 24	19 29	18 28	4 44	22 51	0 1	4 0	0 3	24 24	2 44	19 47	0 34	16 55	0 49	14 30	0 28	22 1
F 25	19 15	13 45	4 18	22 52	0s 7	3 30	0n 3	24 25	2 43	19 49	0 34	16 53	0 49	14 30	0 28	22 1
S 26	19 0	8 34	3 39	22 51	0 15	3 1	0 9	24 26	2 43	19 51	0 34	16 51	0 49	14 30	0 28	22 1
S 27	18 45	3 9	2 52	22 49	0 23	2 31	0 16	24 27	2 43	19 53	0 34	16 49	0 49	14 31	0 28	22 1
M28	18 30	2s21	1 58	22 45	0 30	2 2	0 22	24 29	2 42	19 55	0 35	16 47	0 49	14 31	0 28	22 1
T 29	18 14	7 47	0 58	22 41	0 37	1 32	0 28	24 30	2 42	19 57	0 35	16 45	0 49	14 31	0 28	22 1
W30	17 58	12 58	0s 4	22 35	0 44	1 3	0 35	24 31	2 41	19 59	0 35	16 43	0 50	14 31	0 28	22 1
T 31	17s42	17s45	1s 8	22s28	0s51	0s33	0n42	24n32	2n41	20n 1	0n35	16s41	0s50	14s32	0n28	22n 1

Julian Day Number = 2534819.5, Delta T = 192.98 sec
Ecliptic obliquity = 23°24'42, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°55'36, Lahiri = 27°02'37

ASTRODIENST EPHEMERIS for the year 2228

geocentric

FEBRUARY 2228

00:00 UT

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

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	17s26	21s54	2s 9	22s20	0s57	0s 4	0n49	24n34	2n40	20n 2	0n35	16s39	0s50	14s32	0n28	22n 1	1s19	6n20	17n17	12n37	12n44	0n48	12n54	1s 4			
S 2	17 9	25 9	3 6	22 11	1 4	0n25	0 56	24 35	2 40	20 4	0 35	16 37	0 50	14 32	0 28	22 1	1 19	6 21	17 18	12 36	12 43	0 44	12 54	1 4			
S 3	16 52	27 11	3 55	22 0	1 10	0 54	1 3	24 37	2 39	20 6	0 35	16 35	0 50	14 32	0 28	22 1	1 19	6 21	17 18	12 34	12 42	0 41	12 55	1 4			
M 4	16 34	27 43	4 32	21 48	1 16	1 23	1 10	24 38	2 39	20 8	0 35	16 33	0 50	14 33	0 28	22 1	1 19	6 22	17 19	12 31	12 41	0 38	12 55	1 4			
T 5	16 17	26 32	4 55	21 35	1 21	1 52	1 17	24 40	2 38	20 10	0 35	16 30	0 50	14 33	0 28	22 1	1 19	6 23	17 19	12 28	12 40	0 34	12 55	1 4			
W 6	15 59	23 37	5 1	21 20	1 26	2 21	1 25	24 42	2 38	20 12	0 36	16 28	0 50	14 33	0 29	22 1	1 19	6 23	17 20	12 23	12 39	0 31	12 56	1 4			
T 7	15 40	19 8	4 46	21 4	1 31	2 50	1 32	24 43	2 37	20 14	0 36	16 26	0 50	14 33	0 29	22 1	1 19	6 24	17 20	12 19	12 38	0 28	12 56	1 4			
F 8	15 22	13 25	4 13	20 47	1 36	3 18	1 40	24 45	2 37	20 15	0 36	16 24	0 50	14 33	0 29	22 1	1 19	6 25	17 21	12 16	12 37	0 24	12 56	1 4			
S 9	15 3	6 55	3 22	20 29	1 40	3 47	1 48	24 47	2 36	20 17	0 36	16 22	0 50	14 33	0 29	22 1	1 19	6 25	17 22	12 13	12 36	0 21	12 57	1 4			
S 10	14 44	0 4	2 18	20 9	1 44	4 15	1 56	24 48	2 36	20 19	0 36	16 20	0 50	14 33	0 29	22 1	1 19	6 26	17 22	12 11	12 35	0 18	12 57	1 4			
M 11	14 24	6n42	1 5	19 48	1 48	4 43	2 4	24 50	2 35	20 21	0 36	16 18	0 50	14 33	0 29	22 1	1 19	6 27	17 23	12 10	12 34	0 14	12 58	1 4			
T 12	14 5	13 0	0n10	19 25	1 52	5 10	2 12	24 52	2 34	20 22	0 36	16 15	0 50	14 33	0 29	22 1	1 19	6 27	17 23	12 10	12 33	0 11	12 58	1 4			
W 13	13 45	18 31	1 24	19 1	1 55	5 38	2 20	24 54	2 34	20 24	0 36	16 13	0 50	14 33	0 29	22 1	1 19	6 28	17 24	12 10	12 31	0 7	12 59	1 4			
T 14	13 25	22 56	2 31	18 36	1 57	6 5	2 29	24 55	2 33	20 25	0 36	16 11	0 51	14 33	0 29	22 1	1 18	6 29	17 24	12 10	12 30	0 4	12 59	1 4			
F 15	13 5	26 1	3 28	18 9	2 0	6 32	2 37	24 57	2 33	20 27	0 36	16 9	0 51	14 33	0 29	22 1	1 18	6 29	17 25	12 10	12 29	0 1	13 0	1 4			
S 16	12 44	27 37	4 13	17 41	2 2	6 59	2 46	24 59	2 32	20 29	0 36	16 7	0 51	14 33	0 29	22 2	1 18	6 30	17 25	12 8	12 28	0s 3	13 0	1 4			
S 17	12 24	27 39	4 44	17 12	2 4	7 25	2 54	25 1	2 31	20 30	0 36	16 5	0 51	14 33	0 29	22 2	1 18	6 31	17 26	12 6	12 27	0 6	13 1	1 4			
M 18	12 3	26 13	5 0	16 41	2 5	7 51	3 3	25 2	2 31	20 32	0 36	16 3	0 51	14 33	0 29	22 2	1 18	6 31	17 26	12 2	12 26	0 9	13 1	1 4			
T 19	11 42	23 29	5 2	16 9	2 6	8 16	3 12	25 4	2 30	20 33	0 37	16 1	0 51	14 33	0 29	22 2	1 18	6 32	17 27	11 59	12 25	0 13	13 2	1 4			
W 20	11 21	19 43	4 49	15 36	2 6	8 42	3 21	25 6	2 29	20 34	0 37	15 58	0 51	14 33	0 29	22 2	1 18	6 33	17 27	11 54	12 24	0 16	13 2	1 4			
T 21	10 59	15 9	4 23	15 1	2 7	9 7	3 30	25 8	2 29	20 36	0 37	15 56	0 51	14 33	0 29	22 2	1 18	6 34	17 28	11 50	12 23	0 19	13 3	1 4			
F 22	10 38	10 3	3 45	14 25	2 6	9 31	3 39	25 9	2 28	20 37	0 37	15 54	0 51	14 33	0 29	22 2	1 18	6 34	17 28	11 47	12 22	0 23	13 4	1 4			
S 23	10 16	4 39	2 58	13 48	2 5	9 55	3 48	25 11	2 28	20 38	0 37	15 52	0 51	14 33	0 29	22 2	1 18	6 35	17 29	11 44	12 21	0 26	13 4	1 4			
S 24	9 54	0s53	2 3	13 9	2 4	10 19	3 57	25 13	2 27	20 40	0 37	15 50	0 51	14 32	0 29	22 2	1 18	6 36	17 29	11 42	12 20	0 29	13 5	1 4			
M 25	9 32	6 23	1 3	12 29	2 3	10 42	4 7	25 14	2 26	20 41	0 37	15 48	0 51	14 32	0 29	22 2	1 18	6 37	17 30	11 41	12 18	0 33	13 6	1 4			
T 26	9 10	11 40	0 0	11 48	2 0	11 5	4 16	25 16	2 26	20 42	0 37	15 46	0 52	14 32	0 29	22 2	1 18	6 37	17 30	11 41	12 17	0 36	13 6	1 4			
W 27	8 47	16 33	1s 3	11 5	1 58	11 27	4 25	25 17	2 25	20 43	0 37	15 44	0 52	14 32	0 29	22 2	1 18	6 38	17 31	11 41	12 16	0 40	13 7	1 4			
T 28	8 25	20 53	2 5	10 21	1 55	11 49	4 35	25 19	2 24	20 44	0 37	15 41	0 52	14 32	0 29	22 2	1 18	6 39	17 31	11 41	12 15	0 43	13 8	1 4			
F 29	8s 2	24s23	3s 2	9s36	1s51	12n10	4n44	25n20	2n24	20n45	0n37	15s39	0s52	14s31	0n29	22n 2	1s18	6n40	17n32	11n42	12n14	0s46	13n 8	1s 4			

ASTRODIENST EPHEMERIS for the year 2228

geocentric

MARCH 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 34	10 ^h 24'27"	19 ^h 15'	11 ^h 39'	20 ^h 26'	19 ^h 17'	29 ^h R49	19 ^h 59'	10 ^h R34	25 ^h R17	25 ^h R 1	0 ^h R40	2 ^h 11'	7 ^h 5 9	8 ^h 2	S 1
S 2	10 39 30	11 ^h 24'46"	2 ^h 312	13 ^h 32'	20 ^h 56'	19 ^h 41'	29 ^h 44'	20 ^h 6	10 ^h M33	25 ^h 117	25 ^h 0	0 ^h 37	2 ^h 7	7 ^h 15	8 ^h 4	S 2
M 3	10 43 27	12 ^h 25'05"	15 ^h 37'	15 ^h 25'	21 ^h 23'	20 ^h 6	29 ^h 40'	20 ^h 13'	10 ^h 32'	25 ^h 17'	24 ^h 59'	0 ^h 33'	2 ^h 4	7 ^h 22	8 ^h 7	M 3
T 4	10 47 23	13 ^h 25'22"	29 ^h 31'	17 ^h 19'	21 ^h 49'	20 ^h 31'	29 ^h 36'	20 ^h 20'	10 ^h 31'	25 ^h 16'	24 ^h 58'	0 ^h 27'	2 ^h 1	7 ^h 29	8 ^h 9	T 4
W 5	10 51 20	14 ^h 25'37"	13 ^h 54'	19 ^h 14'	22 ^h 14'	20 ^h 56'	29 ^h 32'	20 ^h 27'	10 ^h 30'	25 ^h 16'	24 ^h 57'	0 ^h 20'	1 ^h 58	7 ^h 35	8 ^h 12	W 5
T 6	10 55 17	15 ^h 25'51"	28 ^h 40'	21 ^h 9	22 ^h 36'	21 ^h 21'	29 ^h 28'	20 ^h 34'	10 ^h 29'	25 ^h D16	24 ^h 56'	0 ^h 13'	1 ^h 55	7 ^h 42	8 ^h 14	T 6
F 7	10 59 13	16 ^h 26'03"	13 ^h 43'	23 ^h 4	22 ^h 57'	21 ^h 47'	29 ^h 24'	20 ^h 40'	10 ^h 28'	25 ^h 16'	24 ^h 54'	0 ^h 6	1 ^h 52	7 ^h 49	8 ^h 17	F 7
S 8	11 3 10	17 ^h 26'13"	28 ^h 54'	25 ^h 0	23 ^h 15'	22 ^h 13'	29 ^h 21'	20 ^h 47'	10 ^h 27'	25 ^h 16'	24 ^h 53'	0 ^h 1	1 ^h 48	7 ^h 55	8 ^h 20	S 8
S 9	11 7 6	18 ^h 26'21"	14 ^h Y 2	26 ^h 55'	23 ^h 32'	22 ^h 39'	29 ^h 18'	20 ^h 54'	10 ^h 26'	25 ^h 16'	24 ^h 52'	29 ^h Y58	1 ^h 45	8 ^h 2	8 ^h 22	S 9
M10	11 11 3	19 ^h 26'27"	28 ^h 57'	28 ^h 50'	23 ^h 46'	23 ^h 5	29 ^h 15'	21 ^h 0	10 ^h 25'	25 ^h 17'	24 ^h 51'	29 ^h D57	1 ^h 42	8 ^h 8	8 ^h 25	M10
T 11	11 14 59	20 ^h 26'32"	13 ^h 35'	0 ^h Y45	23 ^h 59'	23 ^h 32'	29 ^h 12'	21 ^h 7	10 ^h 23'	25 ^h 17'	24 ^h 49'	29 ^h 58	1 ^h 39	8 ^h 15	8 ^h 28	T 11
W12	11 18 56	21 ^h 26'34"	27 ^h 49'	2 ^h 39	24 ^h 9	23 ^h 59'	29 ^h 9	21 ^h 13'	10 ^h 22'	25 ^h 17'	24 ^h 48'	29 ^h 59	1 ^h 36	8 ^h 22	8 ^h 31	W12
T 13	11 22 52	22 ^h 26'34"	11 ^h 40'	4 ^h 32	24 ^h 17'	24 ^h 26'	29 ^h 7	21 ^h 20'	10 ^h 21'	25 ^h 17'	24 ^h 47'	0 ^h 0	1 ^h 33	8 ^h 28	8 ^h 34	T 13
F 14	11 26 49	23 ^h 26'32"	25 ^h 7	6 ^h 23	24 ^h 23'	24 ^h 53'	29 ^h 5	21 ^h 27'	10 ^h 19'	25 ^h 17'	24 ^h 45'	0 ^h R 1	1 ^h 29	8 ^h 35	8 ^h 37	F 14
S 15	11 30 46	24 ^h 26'27"	8 ^h 14	8 ^h 12	24 ^h 26'	25 ^h 20'	29 ^h 3	21 ^h 33'	10 ^h 18'	25 ^h 18'	24 ^h 44'	29 ^h Y59	1 ^h 26	8 ^h 42	8 ^h 39	S 15
S 16	11 34 42	25 ^h 26'21"	21 ^h 2	9 ^h 59	24 ^h R27	25 ^h 48'	29 ^h 1	21 ^h 39'	10 ^h 16'	25 ^h 18'	24 ^h 43'	29 ^h 57	1 ^h 23	8 ^h 48	8 ^h 42	S 16
M17	11 38 39	26 ^h 26'12"	3 ^h 34	11 ^h 43	24 ^h 25'	26 ^h 16'	28 ^h 59'	21 ^h 46'	10 ^h 15'	25 ^h 18'	24 ^h 41'	29 ^h 53	1 ^h 20	8 ^h 55	8 ^h 45	M17
T 18	11 42 35	27 ^h 26'01"	15 ^h 54'	13 ^h 23'	24 ^h 21'	26 ^h 44'	28 ^h 58'	21 ^h 52'	10 ^h 13'	25 ^h 19'	24 ^h 40'	29 ^h 48	1 ^h 17	9 ^h 2	8 ^h 49	T 18
W19	11 46 32	28 ^h 25'48"	28 ^h 4	15 ^h 0	24 ^h 15'	27 ^h 12'	28 ^h 56'	21 ^h 58'	10 ^h 11'	25 ^h 19'	24 ^h 38'	29 ^h 42	1 ^h 13	9 ^h 8	8 ^h 52	W19
T 20	11 50 28	29 ^h 25'33"	10 ^h Y 5	16 ^h 32'	24 ^h 6	27 ^h 40'	28 ^h 55'	22 ^h 5	10 ^h 10'	25 ^h 20'	24 ^h 37'	29 ^h 37	1 ^h 10	9 ^h 15	8 ^h 55	T 20
F 21	11 54 25	0 ^h Y25'16"	22 ^h 0	17 ^h 59	23 ^h 54'	28 ^h 9	28 ^h 54'	22 ^h 11'	10 ^h 8	25 ^h 20'	24 ^h 35'	29 ^h 32	1 ^h 7	9 ^h 22	8 ^h 58	F 21
S 22	11 58 21	1 ^h 24'56"	3 ^h 51	19 ^h 21	23 ^h 40'	28 ^h 37'	28 ^h 54'	22 ^h 17'	10 ^h 6	25 ^h 21'	24 ^h 34'	29 ^h 28	1 ^h 4	9 ^h 28	9 ^h 1	S 22
S 23	12 2 18	2 ^h 24'35"	15 ^h 40'	20 ^h 37'	23 ^h 23'	29 ^h 6	28 ^h 53'	22 ^h 23'	10 ^h 4	25 ^h 21'	24 ^h 32'	29 ^h 26	1 ^h 1	9 ^h 35	9 ^h 4	S 23
M24	12 6 15	3 ^h 24'12"	27 ^h 28'	21 ^h 47'	23 ^h 4	29 ^h 35'	28 ^h 53'	22 ^h 29'	10 ^h 2	25 ^h 22'	24 ^h 31'	29 ^h D25	0 ^h 58	9 ^h 42	9 ^h 8	M24
T 25	12 10 11	4 ^h 23'47"	9 ^h M18	22 ^h 51'	22 ^h 43'	0 ^h 4	28 ^h D53	22 ^h 35'	10 ^h 1	25 ^h 22'	24 ^h 29'	29 ^h 25	0 ^h 54	9 ^h 48	9 ^h 11	T 25
W26	12 14 8	5 ^h 23'20"	21 ^h 13'	23 ^h 47'	22 ^h 19'	0 ^h 34	28 ^h 53'	22 ^h 41'	9 ^h 59	25 ^h 23'	24 ^h 28'	29 ^h 26	0 ^h 51	9 ^h 55	9 ^h 14	W26
T 27	12 18 4	6 ^h 22'51"	3 ^h 17	24 ^h 37'	21 ^h 54'	1 ^h 3	28 ^h 53'	22 ^h 47'	9 ^h 57	25 ^h 24'	24 ^h 26'	29 ^h 28	0 ^h 48	10 ^h 2	9 ^h 17	T 27
F 28	12 22 1	7 ^h 22'21"	15 ^h 33'	25 ^h 19'	21 ^h 26'	1 ^h 33	28 ^h 53'	22 ^h 53'	9 ^h 55	25 ^h 24'	24 ^h 25'	29 ^h 30	0 ^h 45	10 ^h 8	9 ^h 21	F 28
S 29	12 25 57	8 ^h 21'49"	28 ^h 6	25 ^h 53'	20 ^h 56'	2 ^h 2	28 ^h 54'	22 ^h 58'	9 ^h 53	25 ^h 25'	24 ^h 23'	29 ^h 31	0 ^h 42	10 ^h 15	9 ^h 24	S 29
S 30	12 29 54	9 ^h 21'15"	11 ^h 3 0	26 ^h 20'	20 ^h 25'	2 ^h 32	28 ^h 55'	23 ^h 4	9 ^h 51	25 ^h 26'	24 ^h 21'	29 ^h R31	0 ^h 38	10 ^h 22	9 ^h 28	S 30
M31	12 33 50	10 ^h Y20'39"	24 ^h 318	26 ^h Y39	19 ^h Y52	3 ^h 2 2	28 ^h 56'	23 ^h 10	9 ^h M49	25 ^h 27	24 ^h 20	29 ^h Y31	0 ^h 35	10 ^h 28	9 ^h 31	M31

Day	☉	☾	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	7s39	26s50	3s52	8s50	1s47	12n30	4n54	25n21	2n23	20n46	0n37	15s37	0s52	14s31	0n29	22n 2	1s18	6n40	17n32	11n41
S 2	7 17	27 55	4 31	8 2	1 42	12 50	5 3	25 23	2 23	20 47	0 37	15 35	0 52	14 31	0 29	22 2	1 18	6 41	17 32	11 41
M 3	6 54	27 26	4 58	7 13	1 36	13 10	5 13	25 24	2 22	20 48	0 37	15 33	0 52	14 30	0 29	22 2	1 18	6 42	17 33	11 39
T 4	6 31	25 15	5 8	6 24	1 30	13 28	5 22	25 25	2 21	20 49	0 37	15 31	0 52	14 30	0 29	22 2	1 18	6 43	17 33	11 37
W 5	6 7	21 25	5 0	5 33	1 24	13 46	5 32	25 26	2 21	20 50	0 37	15 29	0 52	14 30	0 29	22 2	1 17	6 43	17 34	11 35
T 6	5 44	16 10	4 31	4 41	1 17	14 3	5 41	25 27	2 20	20 51	0 37	15 27	0 52	14 30	0 29	22 2	1 17	6 44	17 34	11 32
F 7	5 21	9 50	3 44	3 48	1 9	14 20	5 51	25 28	2 19	20 51	0 37	15 25	0 53	14 29	0 29	22 2	1 17	6 45	17 34	11 30
S 8	4 57	2 53	2 40	2 55	1 1	14 36	6 0	25 29	2 19	20 52	0 37	15 23	0 53	14 29	0 29	22 2	1 17	6 46	17 35	11 28
S 9	4 34	4n13	1 25	2 1	0 52	14 50	6 9	25 30	2 18	20 53	0 37	15 21	0 53	14 28	0 29	22 2	1 17	6 47	17 35	11 27
M10	4 11	11 0	0 5	1 7	0 42	15 4	6 18	25 31	2 17	20 54	0 37	15 19	0 53	14 28	0 29	22 2	1 17	6 47	17 36	11 27
T 11	3 47	17 4	1n13	0 12	0 32	15 17	6 27	25 32	2 17	20 54	0 37	15 17	0 53	14 28	0 29	22 3	1 17	6 48	17 36	11 27
W12	3 23	22 1	2 26	0n43	0 22	15 29	6 36	25 32	2 16	20 55	0 37	15 15	0 53	14 27	0 29	22 3	1 17	6 49	17 36	11 27
T 13	3 0	25 35	3 28	1 38	0 11	15 40	6 45	25 33	2 15	20 55	0 37	15 13	0 53	14 27	0 29	22 3	1 17	6 50	17 37	11 28
F 14	2 36	27 35	4 16	2 33	0n 1	15 50	6 53	25 34	2 15	20 56	0 37	15 11	0 53	14 26	0 29	22 3	1 17	6 50	17 37	11 28
S 15	2 12	27 58	4 50	3 27	0 13	15 59	7 2	25 34	2 14	20 56	0 37	15 9	0 53	14 26	0 29	22 3	1 17	6 51	17 37	11 27
S 16	1 49	26 50	5 8	4 20	0 25	16 7	7 10	25 34	2 14	20 57	0 37	15 7	0 53	14 25	0 29	22 3	1 17	6 52	17 38	11 27
M17	1 25	24 22	5 11	5 12	0 38	16 13	7 17	25 34	2 13	20 57	0 37	15 5	0 54	14 25	0 29	22 3	1 17	6 53	17 38	11 25
T 18	1 1	20 49	5 0	6 3	0 50	16 19	7 25	25 35	2 12	20 57	0 37	15 3	0 54	14 24	0 29	22 3	1 17	6 54	17 38	11 23
W19	0 37	16 26	4 35	6 52	1 3	16 22	7 31	25 35	2 12	20 57	0 37	15 1	0 54	14 24	0 29	22 3	1 17	6 54	17 38	11 21
T 20	0 14	11 27	3 58	7 40	1 16	16 25	7 38	25 35	2 11	20 58	0 37	14 59	0 54	14 23	0 29	22 3	1 17	6 55	17 39	11 19
F 21	0n10	6 5	3 11	8 25	1 29	16 26	7 44	25 34	2 10	20 58	0 37	14 57	0 54	14 23	0 29	22 3	1 17	6 56	17 39	11 18
S 22	0 34	0 33	2 16	9 8	1 42	16 26	7 49	25 34	2 10	20 58	0 37	14 55	0 54	14 22	0 29	22 3	1 17	6 57	17 39	11 16
S 23	0 57	5s 0	1 15	9 48	1 54	16 24	7 54	25 34	2 9	20 58	0 37	14 54	0 54	14 21	0 29	22 3	1 17	6 57	17 39	11 15
M24	1 21	10 23	0 11	10 26	2 6	16 21	7 59	25 33	2 9	20 58	0 37	14 52	0 54	14 21	0 29	22 3	1 17	6 58	17 40	11 15
T 25	1 45	15 26	0s54	11 0	2 18	16 16	8 2	25 33	2 8	20 58	0 37	14 50	0 55	14 20	0 29	22 3	1 16	6 59	17 40	11 15
W26	2 8	19 56	1 57	11 31	2 28	16 10	8 5	25 32	2 7	20 58	0 37	14 48	0 55	14 20	0 29	22 4	1 16	7 0	17 40	11 16
T 27	2 32	23 40	2 56	11 59	2 38	16 3	8 7	25 31	2 7	20 58	0 37	14 46	0 55	14 19	0 29	22 4	1 16	7 0	17 40	11 16
F 28	2 55	26 24	3 48	12 23	2 48	15 53	8 9	25 30	2 6	20 58	0 37	14 44	0 55	14 18	0 29	22 4	1 16	7 1	17 41	11 17
S 29	3 19	27 54	4 30	12 43	2 56	15 43	8 9	25 29	2 5	20 58	0 37	14 43	0 55	14 18	0 29	22 4	1 16	7 2	17 41	11 17
S 30	3 42	27 56	5 0	13 0	3 3	15 30	8 9	25 28	2 5	20 58	0 37	14 41	0 55	14 17	0 29	22 4	1 16	7 3	17 41	11 17
M31	4n 5	26s24	5s15	13n12	3n 9	15n17	8n 8	25n27	2n 4	20n57	0n37	14s39	0s55	14s16	0n29	22n 4	1s16	7n 3	17n41	11n17

ASTRODIENST EPHEMERIS for the year 2228

geocentric

APRIL 2228

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 47	11°20'02	8°33	26°51	19°R18	3°32	28°57	23°15	9°R46	25°28	24°R18	29°R29	0°32	10°35	9°35	T 1
W 2	12 41 44	12°19'23	22°14	26°R55	18°Y42	4° 2	28°59	23°21	9°M44	25°29	24°16	29°Y27	0°29	10°42	9°38	W 2
T 3	12 45 40	13°18'42	6°H51	26°51	18° 6	4°33	29° 0	23°26	9°42	25°29	24°15	29°25	0°26	10°48	9°42	T 3
F 4	12 49 37	14°17'59	21°49	26°41	17°29	5° 3	29° 2	23°32	9°40	25°30	24°13	29°23	0°23	10°55	9°45	F 4
S 5	12 53 33	15°17'14	6°Y59	26°24	16°51	5°34	29° 4	23°37	9°38	25°31	24°11	29°22	0°19	11° 2	9°49	S 5
S 6	12 57 30	16°16'27	22°12	26° 0	16°13	6° 5	29° 6	23°43	9°35	25°32	24°10	29°D21	0°16	11° 8	9°52	S 6
M 7	13 1 26	17°15'38	7°B18	25°31	15°36	6°36	29° 8	23°48	9°33	25°33	24° 8	29°21	0°13	11°15	9°56	M 7
T 8	13 5 23	18°14'47	22°10	24°57	14°58	7° 7	29°11	23°53	9°31	25°34	24° 6	29°22	0°10	11°21	9°59	T 8
W 9	13 9 19	19°13'54	6°H40	24°19	14°22	7°38	29°14	23°58	9°29	25°36	24° 5	29°22	0° 7	11°28	10° 3	W 9
T 10	13 13 16	20°12'59	20°44	23°37	13°45	8° 9	29°17	24° 3	9°26	25°37	24° 3	29°23	0° 4	11°35	10° 7	T 10
F 11	13 17 13	21°12'01	4°E21	22°53	13°10	8°40	29°20	24° 8	9°24	25°38	24° 1	29°24	0° 0	11°41	10°10	F 11
S 12	13 21 9	22°11'02	17°33	22° 7	12°37	9°12	29°23	24°13	9°21	25°39	24° 0	29°R24	29°Y57	11°48	10°14	S 12
S 13	13 25 6	23° 9'59	0°N22	21°20	12° 4	9°43	29°26	24°18	9°19	25°40	23°58	29°24	29°54	11°55	10°18	S 13
M14	13 29 2	24° 8'55	12°51	20°33	11°33	10°15	29°30	24°23	9°17	25°41	23°56	29°24	29°51	12° 1	10°21	M14
T 15	13 32 59	25° 7'48	25° 5	19°48	11° 4	10°46	29°34	24°27	9°14	25°43	23°55	29°23	29°48	12° 8	10°25	T 15
W16	13 36 55	26° 6'39	7°H7	19° 4	10°37	11°18	29°38	24°32	9°12	25°44	23°53	29°23	29°44	12°15	10°29	W16
T 17	13 40 52	27° 5'28	19° 1	18°23	10°12	11°50	29°42	24°36	9° 9	25°45	23°51	29°23	29°41	12°21	10°33	T 17
F 18	13 44 48	28° 4'14	0°E51	17°45	9°49	12°22	29°46	24°41	9° 7	25°47	23°50	29°22	29°38	12°28	10°36	F 18
S 19	13 48 45	29° 2'59	12°39	17°11	9°28	12°54	29°50	24°45	9° 4	25°48	23°48	29°D22	29°35	12°35	10°40	S 19
S 20	13 52 41	0°B141	24°27	16°41	9°10	13°26	29°55	24°50	9° 2	25°49	23°46	29°R22	29°32	12°41	10°44	S 20
M21	13 56 38	1° 0'22	6°H19	16°15	8°54	13°59	29°59	24°54	8°59	25°51	23°45	29°22	29°29	12°48	10°48	M21
T 22	14 0 35	1°59'00	18°16	15°55	8°41	14°31	0°N5	24°58	8°57	25°52	23°43	29°22	29°25	12°55	10°52	T 22
W23	14 4 31	2°57'37	0°H20	15°39	8°29	15° 4	0°10	25° 2	8°54	25°54	23°41	29°22	29°22	13° 1	10°55	W23
T 24	14 8 28	3°56'12	12°34	15°29	8°21	15°36	0°15	25° 6	8°52	25°55	23°40	29°21	29°19	13° 8	10°59	T 24
F 25	14 12 24	4°54'45	25° 0	15°23	8°15	16° 9	0°21	25°10	8°49	25°57	23°38	29°21	29°16	13°15	11° 3	F 25
S 26	14 16 21	5°53'17	7°B40	15°D23	8°11	16°41	0°26	25°14	8°47	25°58	23°36	29°20	29°13	13°21	11° 7	S 26
S 27	14 20 17	6°51'47	20°37	15°28	8°D10	17°14	0°32	25°18	8°44	26° 0	23°35	29°19	29°10	13°28	11°11	S 27
M28	14 24 14	7°50'16	3°H54	15°37	8°11	17°47	0°38	25°21	8°41	26° 2	23°33	29°D19	29° 6	13°34	11°15	M28
T 29	14 28 11	8°48'42	17°31	15°52	8°14	18°20	0°44	25°25	8°39	26° 3	23°31	29°19	29° 3	13°41	11°18	T 29
W30	14 32 7	9°B47'08	1°H30	16°Y11	8°Y20	18°E53	0°N50	25°H29	8°M36	26°H5	23°H30	29°Y20	29°Y0	13°H48	11°H22	W30

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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	decl	lat
T 1	4n29	23s16	5s13	13n21	3n14	15n 2	8n 6	25n25	2n 4	20n57	0n37	14s37	0s55	14s16	0n29	22n 4	1s16	7n 4	17n41	11n17	11n39	2s34	13n38	1s 6			
W 2	4 52	18 40	4 52	13 25	3 17	14 46	8 3	25 24	2 3	20 57	0 37	14 36	0 56	14 15	0 29	22 4	1 16	7 5	17 41	11 16	11 38	2 37	13 39	1 6			
T 3	5 15	12 52	4 11	13 26	3 19	14 28	8 0	25 22	2 2	20 57	0 37	14 34	0 56	14 14	0 29	22 4	1 16	7 5	17 42	11 15	11 37	2 41	13 40	1 6			
F 4	5 38	6 12	3 13	13 22	3 19	14 9	7 55	25 21	2 2	20 56	0 37	14 32	0 56	14 14	0 29	22 4	1 16	7 6	17 42	11 15	11 35	2 44	13 41	1 6			
S 5	6 1	0n55	2 1	13 15	3 18	13 50	7 49	25 19	2 1	20 56	0 37	14 31	0 56	14 13	0 29	22 4	1 16	7 7	17 42	11 14	11 34	2 47	13 42	1 6			
S 6	6 24	8 1	0 40	13 3	3 15	13 29	7 43	25 17	2 1	20 55	0 37	14 29	0 56	14 12	0 29	22 4	1 16	7 7	17 42	11 14	11 33	2 51	13 43	1 6			
M 7	6 46	14 38	0n44	12 48	3 10	13 8	7 36	25 15	2 0	20 55	0 37	14 28	0 56	14 12	0 29	22 4	1 16	7 8	17 42	11 14	11 32	2 54	13 44	1 6			
T 8	7 9	20 16	2 3	12 30	3 4	12 46	7 28	25 13	1 59	20 54	0 37	14 26	0 56	14 11	0 29	22 5	1 16	7 9	17 42	11 14	11 31	2 57	13 45	1 6			
W 9	7 31	24 34	3 13	12 8	2 56	12 23	7 19	25 10	1 59	20 54	0 37	14 24	0 57	14 10	0 29	22 5	1 16	7 9	17 42	11 14	11 30	3 1	13 46	1 6			
T 10	7 54	27 13	4 8	11 44	2 46	12 0	7 9	25 8	1 58	20 53	0 37	14 23	0 57	14 9	0 29	22 5	1 16	7 10	17 42	11 15	11 29	3 4	13 47	1 6			
F 11	8 16	28 8	4 48	11 17	2 36	11 37	6 59	25 5	1 58	20 52	0 37	14 21	0 57	14 9	0 29	22 5	1 16	7 11	17 42	11 15	11 28	3 8	13 48	1 6			
S 12	8 38	27 24	5 11	10 49	2 23	11 14	6 48	25 2	1 57	20 52	0 37	14 20	0 57	14 8	0 29	22 5	1 16	7 11	17 42	11 15	11 27	3 11	13 50	1 6			
S 13	9 0	25 13	5 17	10 19	2 10	10 50	6 36	24 59	1 56	20 51	0 37	14 18	0 57	14 7	0 29	22 5	1 16	7 12	17 42	11 15	11 25	3 14	13 51	1 6			
M14	9 21	21 52	5 9	9 48	1 55	10 27	6 24	24 56	1 56	20 50	0 37	14 17	0 57	14 6	0 29	22 5	1 15	7 13	17 42	11 15	11 24	3 18	13 52	1 6			
T 15	9 43	17 38	4 46	9 17	1 40	10 4	6 12	24 53	1 55	20 49	0 37	14 16	0 57	14 6	0 29	22 5	1 15	7 13	17 42	11 15	11 23	3 21	13 53	1 6			
W16	10 4	12 47	4 11	8 45	1 24	9 42	5 59	24 50	1 55	20 49	0 37	14 14	0 58	14 5	0 29	22 5	1 15	7 14	17 42	11 15	11 22	3 24	13 54	1 6			
T 17	10 26	7 30	3 26	8 15	1 8	9 20	5 45	24 47	1 54	20 48	0 37	14 13	0 58	14 4	0 29	22 5	1 15	7 14	17 42	11 14	11 21	3 28	13 55	1 6			
F 18	10 47	1 59	2 32	7 45	0 51	8 58	5 32	24 43	1 53	20 47	0 37	14 11	0 58	14 3	0 29	22 5	1 15	7 15	17 42	11 14	11 20	3 31	13 56	1 6			
S 19	11 7	3s35	1 32	7 16	0 34	8 37	5 18	24 40	1 53	20 46	0 37	14 10	0 58	14 2	0 29	22 5	1 15	7 15	17 42	11 14	11 19	3 34	13 57	1 7			
S 20	11 28	9 3	0 27	6 49	0 18	8 17	5 4	24 36	1 52	20 45	0 37	14 9	0 58	14 2	0 29	22 6	1 15	7 16	17 42	11 14	11 18	3 38	13 58	1 7			
M21	11 49	14 13	0s39	6 24	0 1	7 58	4 50	24 32	1 52	20 44	0 37	14 7	0 58	14 1	0 29	22 6	1 15	7 16	17 42	11 14	11 16	3 41	14 0	1 7			
T 22	12 9	18 54	1 43	6 2	0s15	7 40	4 36	24 28	1 51	20 43	0 37	14 6	0 59	14 0	0 29	22 6	1 15	7 17	17 42	11 14	11 15	3 45	14 1	1 7			
W23	12 29	22 52	2 44	5 41	0 30	7 22	4 22	24 24	1 51	20 42	0 37	14 5	0 59	13 59	0 29	22 6	1 15	7 17	17 42	11 14	11 14	3 48	14 2	1 7			
T 24	12 49	25 53	3 38	5 23	0 45	7 6	4 8	24 19	1 50	20 41	0 37	14 4	0 59	13 58	0 29	22 6	1 15	7 18	17 42	11 14	11 13	3 51	14 3	1 7			
F 25	13 9	27 41	4 22	5 8	1 0	6 51	3 54	24 15	1 49	20 39	0 37	14 3	0 59	13 58	0 29	22 6	1 15	7 18	17 42	11 14	11 12	3 55	14 4	1 7			
S 26	13 28	28 6	4 55	4 55	1 14	6 37	3 40	24 10	1 49	20 38	0 37	14 1	0 59	13 57	0 29	22 6	1 15	7 19	17 42	11 13	11 11	3 58	14 5	1 7			
S 27	13 47	27 0	5 14	4 45	1 27	6 24	3 26	24 6	1 48	20 37	0 37	14 0	0 59	13 56	0 29	22 6	1 15	7 19	17 41	11 13	11 10	4 1	14 6	1 7			
M28	14 6	24 23	5 16	4 37	1 39	6 12	3 13	24 1	1 48	20 36	0 37	13 59	0 59	13 55	0 29	22 6	1 15	7 20	17 41	11 13	11 9	4 5	14 7	1 7			
T 29	14 25	20 21	5 2	4 32	1 50	6 1	2 59	23 56	1 47	20 34	0 37	13 58	1 0	13 54	0 29	22 6	1 15	7 20	17 41	11 13	11 8	4 8	14 8	1 7			
W30	14n44	15s 7	4s29	4n30	2s 1	5n51	2n46	23n51	1n47	20n33	0n37	13s57	1s 0	13s54	0n29	22n 6	1s15	7n21	17n41	11n13	11n 6	4s11	14n10	1s 7			

ASTRODIENST EPHEMERIS for the year 2228

geocentric

MAY 2228

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 36 4	10 ⁸ 45'31	15 ¹ 51	16 ¹ 34	8 ¹ 28	19 ² 26	0 ⁰ 56	25 ² 32	8 ¹ 34	26 ¹ 7	23 ¹ 28	29 ¹ 20	28 ¹ 57	13 ¹ 54	11 ¹ 26	T 1
F 2	14 40 0	11 ¹ 43'53	0 ¹ 30	17 ¹ 2	8 ¹ 38	19 ¹ 59	1 ¹ 3	25 ¹ 35	8 ¹ 31	26 ¹ 8	23 ¹ 27	29 ¹ 21	28 ¹ 54	14 ¹ 1	11 ¹ 30	F 2
S 3	14 43 57	12 ¹ 42'14	15 ¹ 24	17 ¹ 34	8 ¹ 51	20 ¹ 32	1 ¹ 9	25 ¹ 39	8 ¹ 29	26 ¹ 10	23 ¹ 25	29 ¹ 22	28 ¹ 50	14 ¹ 8	11 ¹ 34	S 3
S 4	14 47 53	13 ¹ 40'33	0 ¹ 25	18 ¹ 11	9 ¹ 5	21 ¹ 5	1 ¹ 16	25 ¹ 42	8 ¹ 26	26 ¹ 12	23 ¹ 23	29 ¹ R22	28 ¹ 47	14 ¹ 14	11 ¹ 38	S 4
M 5	14 51 50	14 ¹ 38'50	15 ¹ 26	18 ¹ 51	9 ¹ 21	21 ¹ 39	1 ¹ 23	25 ¹ 45	8 ¹ 24	26 ¹ 13	23 ¹ 22	29 ¹ 22	28 ¹ 44	14 ¹ 21	11 ¹ 42	M 5
T 6	14 55 46	15 ¹ 37'06	0 ¹ 17	19 ¹ 34	9 ¹ 40	22 ¹ 12	1 ¹ 30	25 ¹ 48	8 ¹ 21	26 ¹ 15	23 ¹ 20	29 ¹ 21	28 ¹ 41	14 ¹ 28	11 ¹ 45	T 6
W 7	14 59 43	16 ¹ 35'19	14 ¹ 52	20 ¹ 22	10 ¹ 0	22 ¹ 46	1 ¹ 37	25 ¹ 51	8 ¹ 18	26 ¹ 17	23 ¹ 19	29 ¹ 19	28 ¹ 38	14 ¹ 34	11 ¹ 49	W 7
T 8	15 3 39	17 ¹ 33'31	29 ¹ 3	21 ¹ 12	10 ¹ 21	23 ¹ 19	1 ¹ 45	25 ¹ 54	8 ¹ 16	26 ¹ 19	23 ¹ 17	29 ¹ 16	28 ¹ 35	14 ¹ 41	11 ¹ 53	T 8
F 9	15 7 36	18 ¹ 31'41	12 ¹ 49	22 ¹ 6	10 ¹ 45	23 ¹ 53	1 ¹ 52	25 ¹ 56	8 ¹ 13	26 ¹ 21	23 ¹ 16	29 ¹ 14	28 ¹ 31	14 ¹ 48	11 ¹ 57	F 9
S 10	15 11 33	19 ¹ 29'50	26 ¹ 8	23 ¹ 3	11 ¹ 10	24 ¹ 26	2 ¹ 0	25 ¹ 59	8 ¹ 11	26 ¹ 23	23 ¹ 14	29 ¹ 12	28 ¹ 28	14 ¹ 54	12 ¹ 0	S 10
S 11	15 15 29	20 ¹ 27'56	9 ¹ 2	24 ¹ 3	11 ¹ 37	25 ¹ 0	2 ¹ 7	26 ¹ 2	8 ¹ 8	26 ¹ 24	23 ¹ 13	29 ¹ 11	28 ¹ 25	15 ¹ 1	12 ¹ 5	S 11
M 12	15 19 26	21 ¹ 26'00	21 ¹ 33	25 ¹ 6	12 ¹ 6	25 ¹ 34	2 ¹ 15	26 ¹ 4	8 ¹ 6	26 ¹ 26	23 ¹ 11	29 ¹ D10	28 ¹ 22	15 ¹ 8	12 ¹ 8	M 12
T 13	15 23 22	22 ¹ 24'02	3 ¹ 47	26 ¹ 12	12 ¹ 36	26 ¹ 8	2 ¹ 23	26 ¹ 6	8 ¹ 4	26 ¹ 28	23 ¹ 10	29 ¹ 11	28 ¹ 19	15 ¹ 14	12 ¹ 12	T 13
W 14	15 27 19	23 ¹ 22'03	15 ¹ 47	27 ¹ 20	13 ¹ 7	26 ¹ 42	2 ¹ 31	26 ¹ 9	8 ¹ 1	26 ¹ 30	23 ¹ 9	29 ¹ 12	28 ¹ 16	15 ¹ 21	12 ¹ 16	W 14
T 15	15 31 15	24 ¹ 20'01	27 ¹ 39	28 ¹ 32	13 ¹ 40	27 ¹ 16	2 ¹ 39	26 ¹ 11	7 ¹ 59	26 ¹ 32	23 ¹ 7	29 ¹ 13	28 ¹ 12	15 ¹ 28	12 ¹ 20	T 15
F 16	15 35 12	25 ¹ 17'58	9 ¹ 27	29 ¹ 45	14 ¹ 14	27 ¹ 50	2 ¹ 48	26 ¹ 13	7 ¹ 56	26 ¹ 34	23 ¹ 6	29 ¹ 15	28 ¹ 9	15 ¹ 34	12 ¹ 24	F 16
S 17	15 39 8	26 ¹ 15'53	21 ¹ 14	1 ¹ 8	14 ¹ 49	28 ¹ 24	2 ¹ 56	26 ¹ 15	7 ¹ 54	26 ¹ 36	23 ¹ 4	29 ¹ 16	28 ¹ 6	15 ¹ 41	12 ¹ 27	S 17
S 18	15 43 5	27 ¹ 13'46	3 ¹ 6	2 ¹ 20	15 ¹ 26	28 ¹ 58	3 ¹ 5	26 ¹ 17	7 ¹ 52	26 ¹ 38	23 ¹ 3	29 ¹ R16	28 ¹ 3	15 ¹ 47	12 ¹ 31	S 18
M 19	15 47 2	28 ¹ 11'38	15 ¹ 4	3 ¹ 41	16 ¹ 4	29 ¹ 32	3 ¹ 13	26 ¹ 19	7 ¹ 49	26 ¹ 40	23 ¹ 2	29 ¹ 15	28 ¹ 0	15 ¹ 54	12 ¹ 35	M 19
T 20	15 50 58	29 ¹ 9'28	27 ¹ 11	5 ¹ 5	16 ¹ 43	0 ¹ 6	3 ¹ 22	26 ¹ 20	7 ¹ 47	26 ¹ 42	23 ¹ 1	29 ¹ 13	27 ¹ 56	16 ¹ 1	12 ¹ 39	T 20
W 21	15 54 55	0 ¹ 17	9 ¹ 29	6 ¹ 31	17 ¹ 23	0 ¹ 40	3 ¹ 31	26 ¹ 22	7 ¹ 45	26 ¹ 44	22 ¹ 59	29 ¹ 9	27 ¹ 53	16 ¹ 7	12 ¹ 42	W 21
T 22	15 58 51	1 ¹ 5'05	21 ¹ 59	7 ¹ 59	18 ¹ 4	1 ¹ 15	3 ¹ 40	26 ¹ 23	7 ¹ 42	26 ¹ 46	22 ¹ 58	29 ¹ 4	27 ¹ 50	16 ¹ 14	12 ¹ 46	T 22
F 23	16 2 48	2 ¹ 2'51	4 ¹ 32	9 ¹ 29	18 ¹ 46	1 ¹ 49	3 ¹ 49	26 ¹ 25	7 ¹ 40	26 ¹ 48	22 ¹ 57	28 ¹ 59	27 ¹ 47	16 ¹ 21	12 ¹ 50	F 23
S 24	16 6 44	3 ¹ 0'36	17 ¹ 38	11 ¹ 2	19 ¹ 29	2 ¹ 24	3 ¹ 58	26 ¹ 26	7 ¹ 38	26 ¹ 50	22 ¹ 56	28 ¹ 53	27 ¹ 44	16 ¹ 27	12 ¹ 53	S 24
S 25	16 10 41	3 ¹ 58'20	0 ¹ 47	12 ¹ 37	20 ¹ 13	2 ¹ 58	4 ¹ 8	26 ¹ 27	7 ¹ 36	26 ¹ 52	22 ¹ 54	28 ¹ 49	27 ¹ 41	16 ¹ 34	12 ¹ 57	S 25
M 26	16 14 38	4 ¹ 56'03	14 ¹ 11	14 ¹ 14	20 ¹ 58	3 ¹ 33	4 ¹ 17	26 ¹ 29	7 ¹ 33	26 ¹ 54	22 ¹ 53	28 ¹ 45	27 ¹ 37	16 ¹ 41	13 ¹ 0	M 26
T 27	16 18 34	5 ¹ 53'45	27 ¹ 50	15 ¹ 53	21 ¹ 44	4 ¹ 7	4 ¹ 27	26 ¹ 30	7 ¹ 31	26 ¹ 57	22 ¹ 52	28 ¹ 44	27 ¹ 34	16 ¹ 47	13 ¹ 4	T 27
W 28	16 22 31	6 ¹ 51'25	11 ¹ 43	17 ¹ 35	22 ¹ 30	4 ¹ 42	4 ¹ 36	26 ¹ 31	7 ¹ 29	26 ¹ 59	22 ¹ 51	28 ¹ D44	27 ¹ 31	16 ¹ 54	13 ¹ 8	W 28
T 29	16 26 27	7 ¹ 49'05	25 ¹ 50	19 ¹ 19	23 ¹ 18	5 ¹ 16	4 ¹ 46	26 ¹ 31	7 ¹ 27	27 ¹ 1	22 ¹ 50	28 ¹ 44	27 ¹ 28	17 ¹ 0	13 ¹ 12	T 29
F 30	16 30 24	8 ¹ 46'44	10 ¹ Y11	21 ¹ 5	24 ¹ 6	5 ¹ 51	4 ¹ 56	26 ¹ 32	7 ¹ 25	27 ¹ 3	22 ¹ 49	28 ¹ 46	27 ¹ 25	17 ¹ 7	13 ¹ 15	F 30
S 31	16 34 20	9 ¹ II44'22	24 ¹ Y43	22 ¹ 8	24 ¹ Y55	6 ¹ 26	5 ¹ 26	26 ¹ 33	7 ¹ 23	27 ¹ II	22 ¹ 48	28 ¹ R47	27 ¹ Y22	17 ¹ 14	13 ¹ 18	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	15n 2	8s56	3s39	4n29	2s11	5n42	2n33	23n45	1n46	20n32	0n37	13s56	1s 0	13s53	0n29	22n 7	1s15	7n21	17n41	11n14	11n 5	4s15	14n11	1s 7	
F 2	15 20	2 9	2 33	4 32	2 20	5 34	2 20	23 40	1 45	20 30	0 37	13 55	1 0	13 52	0 29	22 7	1 15	7 21	17 41	11 14	11 4	4 18	14 12	1 7	
S 3	15 38	4n53	1 17	4 36	2 28	5 28	2 8	23 34	1 45	20 29	0 37	13 54	1 0	13 51	0 29	22 7	1 15	7 22	17 41	11 14	11 3	4 21	14 13	1 7	
S 4	15 56	11 42	0n 6	4 43	2 36	5 22	1 56	23 29	1 44	20 27	0 37	13 53	1 0	13 50	0 29	22 7	1 15	7 22	17 40	11 14	11 2	4 25	14 14	1 8	
M 5	16 13	17 51	1 28	4 52	2 42	5 18	1 44	23 23	1 44	20 26	0 37	13 52	1 1	13 50	0 29	22 7	1 15	7 23	17 40	11 14	11 1	4 28	14 15	1 8	
T 6	16 30	22 50	2 43	5 3	2 48	5 14	1 32	23 17	1 43	20 24	0 37	13 52	1 1	13 49	0 29	22 7	1 15	7 23	17 40	11 14	11 0	4 32	14 16	1 8	
W 7	16 47	26 18	3 46	5 16	2 53	5 12	1 21	23 11	1 43	20 22	0 37	13 51	1 1	13 48	0 29	22 7	1 15	7 23	17 40	11 13	10 58	4 35	14 17	1 8	
T 8	17 3	27 58	4 33	5 31	2 58	5 10	1 10	23 5	1 42	20 21	0 37	13 50	1 1	13 47	0 29	22 7	1 15	7 24	17 39	11 12	10 57	4 38	14 18	1 8	
F 9	17 19	27 49	5 3	5 47	3 1	5 9	0 59	22 58	1 41	20 19	0 37	13 49	1 1	13 46	0 29	22 7	1 15	7 24	17 39	11 11	10 56	4 42	14 19	1 8	
S 10	17 35	26 3	5 15	6 6	3 4	5 10	0 48	22 52	1 41	20 17	0 37	13 48	1 2	13 46	0 29	22 7	1 14	7 24	17 39	11 11	10 55	4 45	14 21	1 8	
S 11	17 51	22 58	5 11	6 26	3 7	5 11	0 38	22 45	1 40	20 16	0 37	13 48	1 2	13 45	0 29	22 7	1 14	7 24	17 39	11 10	10 54	4 48	14 22	1 8	
M 12	18 6	18 54	4 52	6 47	3 8	5 13	0 28	22 38	1 40	20 14	0 37	13 47	1 2	13 44	0 29	22 7	1 14	7 25	17 38	11 10	10 53	4 52	14 23	1 8	
T 13	18 21	14 9	4 20	7 10	3 9	5 15	0 19	22 31	1 39	20 12	0 37	13 46	1 2	13 43	0 29	22 8	1 14	7 25	17 38	11 10	10 52	4 55	14 24	1 8	
W 14	18 36	8 56	3 37	7 34	3 9	5 19	0 9	22 24	1 39	20 10	0 37	13 46	1 2	13 42	0 29	22 8	1 14	7 25	17 38	11 11	10 51	4 58	14 25	1 8	
T 15	18 50	3 28	2 45	8 0	3 9	5 23	0 0	22 17	1 38	20 8	0 37	13 45	1 2	13 42	0 29	22 8	1 14	7 25	17 38	11 11	10 49	5 2	14 26	1 8	
F 16	19 4	2s 6	1 47	8 27	3 7	5 28	0s 9	22 10	1 38	20 7	0 37	13 45	1 3	13 41	0 29	22 8	1 14	7 25	17 37	11 12	10 48	5 5	14 27	1 9	
S 17	19 18	7 36	0 44	8 55	3 6	5 34	0 17	22 3	1 37	20 5	0 37	13 44	1 3	13 40	0 29	22 8	1 14	7 26	17 37	11 12	10 47	5 8	14 28	1 9	
S 18	19 31	12 52	0s21	9 24	3 3	5 41	0 25	21 55	1 36	20 3	0 37	13 44	1 3	13 39	0 29	22 8	1 14	7 26	17 37	11 12	10 46	5 12	14 29	1 9	
M 19	19 44	17 42	1 26	9 54	3 0	5 48	0 33	21 47	1 36	20 1	0 37	13 43	1 3	13 39	0 29	22 8	1 14	7 26	17 36	11 12	10 45	5 15	14 30	1 9	
T 20	19 57	21 54	2 27	10 25	2 57	5 56	0 41	21 39	1 35	19 59	0 37	13 43	1 3	13 38	0 29	22 8	1 14	7 26	17 36	11 11	10 44	5 18	14 31	1 9	
W 21	20 9	25 11	3 23	10 57	2 53	6 4	0 48	21 32	1 35	19 56	0 37	13 43	1 3	13 37	0 29	22 8	1 14	7 26	17 36	11 10	10 43	5 22	14 32	1 9	
T 22	20 21	27 19	4 9	11 30	2 48	6 13	0 56	21 23	1 34	19 54	0 37	13 42	1 4	13 36	0 29	22 8	1 14	7 26	17 35	11 8	10 42	5 25	14 33	1 9	
F 23	20 33	28 4	4 44	12 4	2 43	6 23	1 3	21 15	1 34	19 52	0 37	13 42	1 4	13 36	0 29	22 8	1 14	7 26	17 35	11 6	10 40	5 29	14 34	1 9	
S 24	20 44	27 18	5 6	12 38	2 37	6 33	1 9	21 7	1 33	19 50	0 37	13 42	1 4	13 35	0 29	22 8	1 14	7 26	17 34	11 4	10 39	5 32	14 35	1 9	
S 25	20 55	25 1	5 11	13 13	2 31	6 43	1 16	20 58	1 33	19 48	0 37	13 41	1 4	13 34	0 29	22 8	1 14	7 27	17 34	11 2	10 38	5 35	14 36	1 9	
M 26	21 6	21 20	5 0	13 48	2 24	6 55	1 22	20 50	1 32	19 46	0 37	13 41	1 4	13 34	0 29	22 9	1 14	7 27	17 34	11 1	10 37	5 39	14 37	1 9	
T 27	21 16	16 28	4 32	14 24	2 16	7 6	1 28	20 41	1 32	19 43	0 37	13 41	1 5	13 33	0 29	22 9	1 14	7 27	17 33	11 1	10 36	5 42	14 38	1 10	
W 28	21 26	10 41	3 48	15 0	2 9	7 18	1 33	20 32	1 31	19 41	0 37	13 41	1 5	13 32	0 29	22 9	1 14	7 27	17 33	11 1	10 35	5 45	14 39	1 10	
T 29	21 35	4 15	2 50	15 36	2 0	7 31	1 39	20 23	1 30	19 39	0 37	13 41	1 5	13 32	0 29	22 9	1 14	7 27	17 32	11 1	10 34	5 49	14 40	1 10	
F 30	21 44	2n30	1 39	16 13	1 52	7 43	1 44	20 14	1 30	19 36	0 37	13 41	1 5	13 31	0 29	22 9	1 14	7 27	17 32	11 1	10 32	5 52	14 41	1 10	
S 31	21n53	9n13	0s22	16n49	1s43	7n57	1s49	20n 5	1n29	19n34	0n37	13s41	1s 5	13s30	0n29	22n 9	1s14	7n27	17n32	11n 2	10n31	5s55	14n42	1s10	

ASTRODIENST EPHEMERIS for the year 2228

geocentric

JUNE 2228

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 38 17	10 ^{II} 41'59	9 ⁸ 22	24 ⁸ 44	25 ^Y 45	7 ^Ω 1	5 ^Ω 16	26 [≈] 33	7 [°] R21	27 ^{II} 7	22 [°] R47	28 [°] R46	27 ^Y 18	17 ^Δ 21	13 ⁸ 22	S 1
M 2	16 42 13	11 [°] 39'35	24 [°] 3	26 [°] 37	26 [°] 35	7 [°] 36	5 [°] 26	26 [°] 34	7 [°] 19	27 [°] 9	22 ^Δ 46	28 ^Y 44	27 [°] 15	17 [°] 27	13 [°] 26	M 2
T 3	16 46 10	12 [°] 37'10	8 ^{II} 39	28 [°] 32	27 [°] 26	8 [°] 10	5 [°] 36	26 [°] 34	7 [°] 17	27 [°] 12	22 [°] 45	28 [°] 40	27 [°] 12	17 [°] 34	13 [°] 29	T 3
W 4	16 50 7	13 [°] 34'44	23 [°] 3	0 ^{II} 29	28 [°] 18	8 [°] 45	5 [°] 46	26 [°] 34	7 [°] 15	27 [°] 14	22 [°] 44	28 [°] 34	27 [°] 9	17 [°] 40	13 [°] 33	W 4
T 5	16 54 3	14 [°] 32'17	7 ^Δ 10	2 [°] 28	29 [°] 10	9 [°] 20	5 [°] 57	26 [°] 35	7 [°] 13	27 [°] 16	22 [°] 43	28 [°] 27	27 [°] 6	17 [°] 47	13 [°] 36	T 5
F 6	16 58 0	15 [°] 29'49	20 [°] 55	4 [°] 30	0 ⁸ 3	9 [°] 55	6 [°] 7	26 [°] R35	7 [°] 11	27 [°] 18	22 [°] 42	28 [°] 19	27 [°] 2	17 [°] 54	13 [°] 40	F 6
S 7	17 1 56	16 [°] 27'20	4 ^Ω 15	6 [°] 33	0 [°] 56	10 [°] 31	6 [°] 18	26 [°] 35	7 [°] 10	27 [°] 20	22 [°] 42	28 [°] 12	26 [°] 59	18 [°] 0	13 [°] 43	S 7
S 8	17 5 53	17 [°] 24'49	17 [°] 11	8 [°] 38	1 [°] 50	11 [°] 6	6 [°] 28	26 [°] 34	7 [°] 8	27 [°] 23	22 [°] 41	28 [°] 7	26 [°] 56	18 [°] 7	13 [°] 46	S 8
M 9	17 9 49	18 [°] 22'17	29 [°] 45	10 [°] 44	2 [°] 44	11 [°] 41	6 [°] 39	26 [°] 34	7 [°] 6	27 [°] 25	22 [°] 40	28 [°] 3	26 [°] 53	18 [°] 14	13 [°] 50	M 9
T 10	17 13 46	19 [°] 19'44	12 [°] 0	12 [°] 52	3 [°] 39	12 [°] 16	6 [°] 50	26 [°] 34	7 [°] 4	27 [°] 27	22 [°] 39	28 [°] 1	26 [°] 50	18 [°] 20	13 [°] 53	T 10
W11	17 17 42	20 [°] 17'10	24 [°] 1	15 [°] 1	4 [°] 35	12 [°] 51	7 [°] 1	26 [°] 33	7 [°] 3	27 [°] 29	22 [°] 39	28 [°] D 1	26 [°] 47	18 [°] 27	13 [°] 56	W11
T 12	17 21 39	21 [°] 14'34	5 ^Δ 52	17 [°] 12	5 [°] 31	13 [°] 27	7 [°] 12	26 [°] 33	7 [°] 1	27 [°] 32	22 [°] 38	28 [°] 2	26 [°] 43	18 [°] 34	14 [°] 0	T 12
F 13	17 25 36	22 [°] 11'58	17 [°] 40	19 [°] 23	6 [°] 27	14 [°] 2	7 [°] 23	26 [°] 32	7 [°] 0	27 [°] 34	22 [°] 37	28 [°] 3	26 [°] 40	18 [°] 40	14 [°] 3	F 13
S 14	17 29 32	23 [°] 9'20	29 [°] 30	21 [°] 35	7 [°] 24	14 [°] 37	7 [°] 34	26 [°] 32	6 [°] 58	27 [°] 36	22 [°] 37	28 [°] R 3	26 [°] 37	18 [°] 47	14 [°] 6	S 14
S 15	17 33 29	24 [°] 6'42	11 [°] 25	23 [°] 47	8 [°] 21	15 [°] 13	7 [°] 45	26 [°] 31	6 [°] 57	27 [°] 38	22 [°] 36	28 [°] 2	26 [°] 34	18 [°] 54	14 [°] 9	S 15
M16	17 37 25	25 [°] 4'02	23 [°] 30	25 [°] 59	9 [°] 19	15 [°] 48	7 [°] 56	26 [°] 30	6 [°] 55	27 [°] 40	22 [°] 35	27 [°] 59	26 [°] 31	19 [°] 0	14 [°] 12	M16
T 17	17 41 22	26 [°] 1'22	5 ^Δ 48	28 [°] 11	10 [°] 17	16 [°] 24	8 [°] 8	26 [°] 29	6 [°] 54	27 [°] 43	22 [°] 35	27 [°] 54	26 [°] 28	19 [°] 7	14 [°] 15	T 17
W18	17 45 18	26 [°] 58'41	18 [°] 21	0 ⁸ 22	11 [°] 15	16 [°] 59	8 [°] 19	26 [°] 28	6 [°] 52	27 [°] 45	22 [°] 34	27 [°] 46	26 [°] 24	19 [°] 14	14 [°] 18	W18
T 19	17 49 15	27 [°] 56'00	1 ³ 10	2 [°] 33	12 [°] 14	17 [°] 35	8 [°] 31	26 [°] 26	6 [°] 51	27 [°] 47	22 [°] 34	27 [°] 37	26 [°] 21	19 [°] 20	14 [°] 22	T 19
F 20	17 53 11	28 [°] 53'18	14 [°] 14	4 [°] 42	13 [°] 13	18 [°] 11	8 [°] 42	26 [°] 25	6 [°] 50	27 [°] 49	22 [°] 34	27 [°] 26	26 [°] 18	19 [°] 27	14 [°] 25	F 20
S 21	17 57 8	29 [°] 50'35	27 [°] 32	6 [°] 50	14 [°] 13	18 [°] 46	8 [°] 54	26 [°] 24	6 [°] 49	27 [°] 52	22 [°] 33	27 [°] 16	26 [°] 15	19 [°] 33	14 [°] 28	S 21
S 22	18 1 5	0 ⁸ 47'52	11 [°] 3	8 [°] 57	15 [°] 12	19 [°] 22	9 [°] 5	26 [°] 22	6 [°] 48	27 [°] 54	22 [°] 33	27 [°] 7	26 [°] 12	19 [°] 40	14 [°] 30	S 22
M23	18 5 1	1 [°] 45'08	24 [°] 44	11 [°] 3	16 [°] 13	19 [°] 58	9 [°] 17	26 [°] 21	6 [°] 46	27 [°] 56	22 [°] 32	27 [°] 0	26 [°] 8	19 [°] 47	14 [°] 33	M23
T 24	18 8 58	2 [°] 42'24	8 [°] 34	13 [°] 6	17 [°] 13	20 [°] 33	9 [°] 29	26 [°] 19	6 [°] 45	27 [°] 58	22 [°] 32	26 [°] 56	26 [°] 5	19 [°] 53	14 [°] 36	T 24
W25	18 12 54	3 [°] 39'40	22 [°] 31	15 [°] 8	18 [°] 14	21 [°] 9	9 [°] 41	26 [°] 17	6 [°] 44	28 [°] 1	22 [°] 32	26 [°] 54	26 [°] 2	20 [°] 0	14 [°] 39	W25
T 26	18 16 51	4 [°] 36'56	6 ^Y 35	17 [°] 8	19 [°] 15	21 [°] 45	9 [°] 52	26 [°] 15	6 [°] 43	28 [°] 3	22 [°] 32	26 [°] D53	25 [°] 59	20 [°] 7	14 [°] 42	T 26
F 27	18 20 47	5 [°] 34'12	20 [°] 44	19 [°] 6	20 [°] 17	22 [°] 21	10 [°] 4	26 [°] 14	6 [°] 42	28 [°] 5	22 [°] 31	26 [°] R53	25 [°] 56	20 [°] 13	14 [°] 45	F 27
S 28	18 24 44	6 [°] 31'27	4 ⁸ 58	21 [°] 2	21 [°] 18	22 [°] 57	10 [°] 16	26 [°] 11	6 [°] 42	28 [°] 7	22 [°] 31	26 [°] 53	25 [°] 53	20 [°] 20	14 [°] 47	S 28
S 29	18 28 40	7 [°] 28'43	19 [°] 14	22 [°] 55	22 [°] 20	23 [°] 33	10 [°] 28	26 [°] 9	6 [°] 41	28 [°] 9	22 [°] 31	26 [°] 52	25 [°] 49	20 [°] 27	14 [°] 50	S 29
M30	18 32 37	8 [°] 25'59	3 ^{II} 30	24 [°] 47	23 [°] 22	24 [°] 9	10 [°] Δ41	26 [°] 7	6 [°] 40	28 [°] 12	22 [°] Δ31	26 ^Y 47	25 ^Y 46	20 [°] Δ33	14 [°] Δ53	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat		
S 1	22n 1	15n30	0n57	17n25	1s33	8n10	1s54	19n56	1n29	19n31	0n37	13s41	1s 5	13s30	0n29	22n 9	1s14	7n27	17n31	11n 2	10n30	5s59	14n43	1s10
M 2	22 9	20 54	2 13	18 1	1 24	8 24	1 58	19 46	1 28	19 29	0 37	13 41	1 6	13 29	0 29	22 9	1 14	7 26	17 31	11 1	10 29	6 2	14 44	1 10
T 3	22 17	25 0	3 19	18 37	1 14	8 38	2 3	19 37	1 28	19 27	0 37	13 41	1 6	13 29	0 29	22 9	1 14	7 26	17 30	10 59	10 28	6 5	14 45	1 10
W 4	22 24	27 25	4 11	19 12	1 3	8 53	2 7	19 27	1 27	19 24	0 37	13 41	1 6	13 28	0 29	22 9	1 14	7 26	17 30	10 57	10 27	6 9	14 46	1 10
T 5	22 31	28 0	4 47	19 46	0 53	9 7	2 11	19 17	1 27	19 21	0 37	13 41	1 6	13 27	0 29	22 9	1 14	7 26	17 29	10 55	10 26	6 12	14 47	1 10
F 6	22 37	26 49	5 6	20 19	0 42	9 22	2 15	19 7	1 26	19 19	0 37	13 41	1 6	13 27	0 29	22 9	1 14	7 26	17 29	10 52	10 24	6 15	14 48	1 11
S 7	22 43	24 8	5 6	20 52	0 32	9 38	2 18	18 57	1 26	19 16	0 37	13 41	1 7	13 26	0 29	22 9	1 14	7 26	17 28	10 49	10 23	6 19	14 49	1 11
S 8	22 49	20 17	4 51	21 23	0 21	9 53	2 22	18 47	1 25	19 14	0 37	13 41	1 7	13 26	0 29	22 9	1 14	7 26	17 28	10 47	10 22	6 22	14 50	1 11
M 9	22 54	15 39	4 23	21 52	0 10	10 9	2 25	18 37	1 25	19 11	0 37	13 42	1 7	13 25	0 29	22 9	1 14	7 26	17 27	10 46	10 21	6 25	14 51	1 11
T 10	22 59	10 29	3 42	22 20	0n 1	10 24	2 28	18 27	1 24	19 8	0 37	13 42	1 7	13 25	0 28	22 9	1 14	7 25	17 27	10 45	10 20	6 29	14 51	1 11
W11	23 3	5 1	2 53	22 46	0 12	10 40	2 30	18 16	1 23	19 5	0 37	13 42	1 7	13 24	0 28	22 10	1 14	7 25	17 27	10 45	10 19	6 32	14 52	1 11
T 12	23 7	0s33	1 57	23 10	0 22	10 56	2 33	18 5	1 23	19 3	0 37	13 43	1 8	13 24	0 28	22 10	1 14	7 25	17 26	10 46	10 18	6 35	14 53	1 11
F 13	23 11	6 4	0 56	23 31	0 32	11 12	2 35	17 55	1 22	19 0	0 37	13 43	1 8	13 23	0 28	22 10	1 14	7 25	17 26	10 46	10 16	6 39	14 54	1 11
S 14	23 14	11 24	0s 8	23 51	0 42	11 29	2 38	17 44	1 22	18 57	0 37	13 43	1 8	13 23	0 28	22 10	1 14	7 24	17 25	10 46	10 15	6 42	14 55	1 12
S 15	23 17	16 22	1 11	24 7	0 51	11 45	2 40	17 33	1 21	18 54	0 37	13 44	1 8	13 22	0 28	22 10	1 14	7 24	17 25	10 46	10 14	6 45	14 56	1 12
M16	23 19	20 46	2 12	24 21	1 0	12 1	2 42	17 22	1 21	18 51	0 37	13 44	1 8	13 22	0 28	22 10	1 14	7 24	17 24	10 45	10 13	6 49	14 56	1 12
T 17	23 21	24 20	3 8	24 33	1 9	12 18	2 43	17 11	1 20	18 48	0 37	13 45	1 8	13 21	0 28	22 10	1 14	7 24	17 23	10 43	10 12	6 52	14 57	1 12
W18	23 23	26 49	3 56	24 41	1 17	12 34	2 45	16 59	1 20	18 45	0 37	13 45	1 9	13 21	0 28	22 10	1 14	7 23	17 23	10 40	10 11	6 55	14 58	1 12
T 19	23 24	27 57	4 32	24 47	1 24	12 51	2 46	16 48	1 19	18 42	0 37	13 46	1 9	13 21	0 28	22 10	1 14	7 23	17 22	10 37	10 10	6 59	14 59	1 12
F 20	23 24	27 33	4 56	24 50	1 30	13 7	2 48	16 37	1 19	18 40	0 37	13 47	1 9	13 20	0 28	22 10	1 14	7 23	17 22	10 33	10 8	7 2	15 0	1 12
S 21	23 25	25 35	5 4	24 50	1 36	13 24	2 49	16 25	1 18	18 36	0 37	13 47	1 9	13 20	0 28	22 10	1 14	7 22	17 21	10 29	10 7	7 5	15 0	1 12
S 22	23 25	22 10	4 55	24 48	1 41	13 40	2 50	16 13	1 18	18 33	0 37	13 48	1 9	13 19	0 28	22 10	1 14	7 22	17 21	10 26	10 6	7 9	15 1	1 13
M23	23 24	17 29	4 29	24 42	1 46	13 57	2 51	16 2	1 17	18 30	0 37	13 49	1 10	13 19	0 28	22 10	1 14	7 22	17 20	10 24	10 5	7 12	15 2	1 13
T 24	23 23	11 52	3 48	24 35	1 49	14 13	2 51	15 50	1 17	18 27	0 37	13 49	1 10	13 19	0 28	22 10	1 14	7 21	17 20	10 22	10 4	7 15	15 2	1 13
W25	23 22	5 36	2 52	24 25	1 52	14 29	2 52	15 38	1 16	18 24	0 37	13 50	1 10	13 18	0 28	22 10	1 14	7 21	17 19	10 21	10 3	7 19	15 3	1 13
T 26	23 20	0n59	1 46	24 12	1 54	14 45	2 52	15 26	1 15	18 21	0 37	13 51	1 10	13 18	0 28	22 10	1 14	7 20	17 19	10 21	10 1	7 22	15 4	1 13
F 27	23 18	7 35	0 33	23 57	1 55	15 1	2 52	15 14	1 15	18 18	0 37	13 52	1 10	13 18	0 28	22 10	1 14	7 20	17 18	10 21	10 0	7 25	15 5	1 13
S 28	23 15	13 50	0n43	23 41	1 56	15 17	2 53	15 1	1 14	18 15	0 37	13 53	1 10	13 18	0 28	22 10	1 14	7 19	17 18	10 21	9 59	7 28	15 5	1 13
S 29	23 12	19 22	1 56	23 22	1 56	15 33	2 53	14 49	1 14	18 11	0 37	13 53	1 11	13 17	0 28	22 10	1 14	7 19	17 17	10 20	9 58	7 32	15 6	1 13
M30	23n 9	23n48	3n 1	23n 2	1n55	15n49	2s52	14n37	1n13	18n 8	0n37	13s54	1s11	13s17	0n28	22n10	1s14	7n18	17n16	10n19	9n57	7s35	15n 7	1s14

ASTRODIENST EPHEMERIS for the year 2228

geocentric

JULY 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
T 1	18 36 34	9 ⁵² 23'14	17 ¹¹ 42	26 ⁵³ 36	24 ⁸ 25	24 ⁸ 45	10 ⁸ 53	26°R 5	6°R39	28 ¹¹ 14	22°R31	26°R41	25°Y43	20 ⁴ 40	14 ⁸ 55	T 1	
W 2	18 40 30	10°20'30	1 ⁵⁴ 45	28°24	25°28	25°21	11° 5	26 ⁵³ 3	6 ¹¹ 39	28°16	22°D31	26°Y31	25°40	20°47	14°58	W 2	
T 3	18 44 27	11°17'45	15°35	0 ⁸ 9	26°31	25°57	11°17	26° 0	6°38	28°18	22 ¹¹ 31	26°20	25°37	20°53	15° 0	T 3	
F 4	18 48 23	12°15'00	29° 8	1°52	27°34	26°33	11°29	25°58	6°37	28°21	22°31	26° 9	25°34	21° 0	15° 3	F 4	
S 5	18 52 20	13°12'15	12 ⁸ 20	3°32	28°37	27°10	11°42	25°55	6°37	28°23	22°31	25°57	25°30	21° 7	15° 5	S 5	
S 6	18 56 16	14° 9'29	25°11	5°11	29°41	27°46	11°54	25°52	6°36	28°25	22°31	25°48	25°27	21°13	15° 8	S 6	
M 7	19 0 13	15° 6'43	7 ¹¹ 43	6°47	0 ¹¹ 45	28°22	12° 7	25°49	6°36	28°27	22°31	25°41	25°24	21°20	15°10	M 7	
T 8	19 4 10	16° 3'57	19°57	8°21	1°49	28°59	12°19	25°47	6°35	28°29	22°31	25°36	25°21	21°26	15°12	T 8	
W 9	19 8 6	17° 1'11	1 ¹¹ 57	9°53	2°53	29°35	12°32	25°44	6°35	28°31	22°32	25°34	25°18	21°33	15°14	W 9	
T 10	19 12 3	17°58'24	13°49	11°23	3°58	0 ¹¹ 11	12°44	25°41	6°35	28°34	22°32	25°33	25°14	21°40	15°17	T 10	
F 11	19 15 59	18°55'37	25°38	12°50	5° 2	0°48	12°57	25°38	6°35	28°36	22°32	25°33	25°11	21°46	15°19	F 11	
S 12	19 19 56	19°52'50	7 ¹¹ 28	14°15	6° 7	1°24	13° 9	25°34	6°34	28°38	22°32	25°32	25° 8	21°53	15°21	S 12	
S 13	19 23 52	20°50'03	19°26	15°38	7°12	2° 1	13°22	25°31	6°34	28°40	22°33	25°31	25° 5	22° 0	15°23	S 13	
M14	19 27 49	21°47'16	1 ¹¹ 36	16°59	8°18	2°37	13°35	25°28	6°34	28°42	22°33	25°27	25° 2	22° 6	15°25	M14	
T 15	19 31 45	22°44'28	14° 3	18°17	9°23	3°14	13°47	25°25	6°D34	28°44	22°34	25°21	24°59	22°13	15°27	T 15	
W16	19 35 42	23°41'41	26°48	19°32	10°29	3°50	14° 0	25°21	6°34	28°46	22°34	25°12	24°55	22°20	15°29	W16	
T 17	19 39 39	24°38'54	9 ⁵³ 53	20°46	11°34	4°27	14°13	25°18	6°34	28°48	22°34	25° 1	24°52	22°26	15°31	T 17	
F 18	19 43 35	25°36'07	23°17	21°56	12°40	5° 4	14°26	25°14	6°34	28°50	22°35	24°49	24°49	22°33	15°33	F 18	
S 19	19 47 32	26°33'21	6 ⁵³ 59	23° 4	13°46	5°40	14°39	25°10	6°35	28°52	22°35	24°37	24°46	22°40	15°34	S 19	
S 20	19 51 28	27°30'34	20°55	24° 9	14°53	6°17	14°52	25° 7	6°35	28°54	22°36	24°26	24°43	22°46	15°36	S 20	
M21	19 55 25	28°27'49	5 ¹¹ 0	25°12	15°59	6°54	15° 4	25° 3	6°35	28°56	22°37	24°18	24°40	22°53	15°38	M21	
T 22	19 59 21	29°25'03	19°11	26°11	17° 6	7°31	15°17	24°59	6°36	28°58	22°37	24°12	24°36	23° 0	15°39	T 22	
W23	20 3 18	0 ⁸ 22'18	3 ¹¹ 23	27° 8	18°12	8° 8	15°30	24°55	6°36	29° 0	22°38	24° 9	24°33	23° 6	15°41	W23	
T 24	20 7 14	1°19'34	17°35	28° 1	19°19	8°45	15°43	24°52	6°36	29° 2	22°39	24° 8	24°30	23°13	15°43	T 24	
F 25	20 11 11	2°16'51	1 ⁸ 43	28°52	20°26	9°22	15°56	24°48	6°37	29° 4	22°39	24° 8	24°27	23°19	15°44	F 25	
S 26	20 15 8	3°14'09	15°48	29°38	21°33	9°59	16° 9	24°44	6°37	29° 6	22°40	24° 7	24°24	23°26	15°46	S 26	
S 27	20 19 4	4°11'28	29°48	0 ¹¹ 22	22°41	10°36	16°22	24°40	6°38	29° 8	22°41	24° 5	24°20	23°33	15°47	S 27	
M28	20 23 1	5° 8'47	13 ¹¹ 43	1° 1	23°48	11°13	16°35	24°36	6°39	29°10	22°42	24° 1	24°17	23°39	15°48	M28	
T 29	20 26 57	6° 6'08	27°31	1°37	24°56	11°50	16°49	24°31	6°39	29°12	22°43	23°54	24°14	23°46	15°49	T 29	
W30	20 30 54	7° 3'29	11 ⁵³ 9	2° 9	26° 4	12°27	17° 2	24°27	6°40	29°14	22°44	23°45	24°11	23°53	15°51	W30	
T 31	20 34 50	8 ⁸ 9	0'51	24 ⁵³ 35	2 ¹¹ 37	27 ¹¹ 11	13 ¹¹ 4	17 ⁸ 15	24 ⁵³ 23	6 ¹¹ 41	29 ¹¹ 16	22 ¹¹ 45	23 ¹¹ Y33	24 ¹¹ Y 8	23 ¹¹ 45	15 ¹¹ 52	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23n 5	26n45	3n55	22n40	1n54	16n 4	2s52	14n24	1n13	18n 5	0n37	13s55	1s11	13s17	0n28	22n10	1s14
W 2	23 1	27 58	4 34	22 17	1 51	16 19	2 52	14 11	1 12	18 1	0 37	13 56	1 11	13 17	0 28	22 10	1 14
T 3	22 56	27 24	4 56	21 52	1 49	16 35	2 51	13 59	1 12	17 58	0 37	13 57	1 11	13 17	0 28	22 10	1 14
F 4	22 51	25 13	5 1	21 26	1 45	16 49	2 51	13 46	1 11	17 55	0 37	13 58	1 11	13 16	0 28	22 10	1 14
S 5	22 45	21 42	4 49	20 59	1 41	17 4	2 50	13 33	1 11	17 51	0 37	13 59	1 12	13 16	0 28	22 10	1 14
S 6	22 40	17 14	4 23	20 31	1 36	17 18	2 49	13 20	1 10	17 48	0 37	14 0	1 12	13 16	0 28	22 11	1 14
M 7	22 33	12 9	3 45	20 2	1 31	17 33	2 48	13 7	1 10	17 44	0 37	14 1	1 12	13 16	0 28	22 11	1 14
T 8	22 27	6 41	2 57	19 32	1 25	17 46	2 47	12 54	1 9	17 41	0 37	14 3	1 12	13 16	0 28	22 11	1 14
W 9	22 20	1 5	2 2	19 1	1 19	18 0	2 46	12 41	1 9	17 38	0 37	14 4	1 12	13 16	0 28	22 11	1 14
T 10	22 12	4s30	1 2	18 30	1 12	18 13	2 45	12 27	1 8	17 34	0 37	14 5	1 12	13 16	0 28	22 11	1 14
F 11	22 5	9 54	0s 0	17 59	1 5	18 26	2 43	12 14	1 8	17 30	0 37	14 6	1 13	13 16	0 28	22 11	1 14
S 12	21 56	14 59	1 3	17 27	0 57	18 39	2 42	12 0	1 7	17 27	0 38	14 7	1 13	13 16	0 28	22 11	1 14
S 13	21 48	19 32	2 3	16 54	0 49	18 51	2 40	11 47	1 6	17 23	0 38	14 9	1 13	13 16	0 27	22 11	1 14
M14	21 39	23 22	2 59	16 22	0 40	19 3	2 38	11 33	1 6	17 20	0 38	14 10	1 13	13 16	0 27	22 11	1 14
T 15	21 30	26 13	3 47	15 49	0 31	19 15	2 37	11 20	1 5	17 16	0 38	14 11	1 13	13 16	0 27	22 11	1 14
W16	21 20	27 47	4 55	15 16	0 21	19 26	2 35	11 6	1 5	17 13	0 38	14 12	1 13	13 16	0 27	22 11	1 14
T 17	21 10	27 52	4 20	14 44	0 11	19 37	2 33	10 52	1 4	17 9	0 38	14 14	1 13	13 16	0 27	22 11	1 14
F 18	21 0	26 20	5 0	14 11	0 1	19 48	2 31	10 38	1 4	17 5	0 38	14 15	1 14	13 16	0 27	22 11	1 14
S 19	20 49	23 14	4 54	13 39	0s10	19 58	2 29	10 24	1 3	17 1	0 38	14 16	1 14	13 16	0 27	22 11	1 14
S 20	20 38	18 45	4 29	13 7	0 21	20 8	2 27	10 10	1 3	16 58	0 38	14 18	1 14	13 16	0 27	22 11	1 14
M21	20 27	13 13	3 49	12 36	0 33	20 17	2 24	9 56	1 2	16 54	0 38	14 19	1 14	13 16	0 27	22 11	1 14
T 22	20 15	6 56	2 53	12 5	0 44	20 26	2 22	9 42	1 2	16 50	0 38	14 21	1 14	13 16	0 27	22 11	1 14
W23	20 3	0 18	1 47	11 34	0 56	20 34	2 20	9 27	1 1	16 46	0 38	14 22	1 14	13 17	0 27	22 11	1 14
T 24	19 50	6n21	0 35	11 4	1 9	20 42	2 17	9 13	1 1	16 43	0 38	14 23	1 14	13 17	0 27	22 11	1 14
F 25	19 38	12 41	0n40	10 35	1 21	20 50	2 15	8 59	1 0	16 39	0 38	14 25	1 15	13 17	0 27	22 11	1 14
S 26	19 25	18 20	1 52	10 7	1 34	20 57	2 12	8 44	1 0	16 35	0 38	14 26	1 15	13 17	0 27	22 11	1 14
S 27	19 11	22 58	2 57	9 40	1 47	21 3	2 9	8 30	0 59	16 31	0 38	14 28	1 15	13 17	0 27	22 11	1 14
M28	18 58	26 14	3 51	9 14	2 0	21 9	2 7	8 15	0 59	16 27	0 38	14 29	1 15	13 18	0 27	22 11	1 14
T 29	18 44	27 54	4 30	8 49	2 13	21 15	2 4	8 1	0 58	16 23	0 38	14 31	1 15	13 18	0 27	22 11	1 14
W30	18 29	27 50	4 54	8 26	2 26	21 20	2 1	7 46	0 57	16 19	0 38	14 32	1 15	13 18	0 27	22 11	1 14
T 31	18n15	26n 7	5n 1	8n 4	2s39	21n25	1s58	7n31	0n57	16n16	0n38	14s34	1s15	13s18	0n27	22n11	1s14

Julian Day Number = 2535001.5, Delta T = 193.56 sec

Ecliptic obliquity = 23°24'42", Nutation = - 0°00'07", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°56'01", Lahiri = 27°03'02"

ASTRODIENST EPHEMERIS for the year 2228

geocentric

AUGUST 2228

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 38 47	8♂58'14	7♂47	3♂0	28♂19	13♂41	17♂28	24°R19	6♂42	29♂17	22♂45	23°R21	24°Y 5	24♂ 6	15♂53	F 1
S 2	20 42 43	9°55'37	20°44	3°19	29°27	14°18	17°41	24°15	6°43	29°19	22°46	23°Y10	24° 1	24°13	15°54	S 2
S 3	20 46 40	10°53'01	3♂24	3°33	0♂36	14°56	17°54	24°10	6°44	29°21	22°47	23° 0	23°58	24°19	15°55	S 3
M 4	20 50 37	11°50'26	15°47	3°42	1°44	15°33	18° 7	24° 6	6°45	29°23	22°49	22°52	23°55	24°26	15°56	M 4
T 5	20 54 33	12°47'51	27°57	3°R46	2°53	16°10	18°21	24° 2	6°46	29°24	22°50	22°47	23°52	24°33	15°57	T 5
W 6	20 58 30	13°45'17	9♂54	3°46	4° 1	16°48	18°34	23°57	6°47	29°26	22°51	22°44	23°49	24°39	15°58	W 6
T 7	21 2 26	14°42'44	21°45	3°40	5°10	17°25	18°47	23°53	6°48	29°28	22°52	22°D43	23°46	24°46	15°58	T 7
F 8	21 6 23	15°40'11	3♂33	3°28	6°19	18° 3	19° 0	23°48	6°49	29°30	22°53	22°44	23°42	24°52	15°59	F 8
S 9	21 10 19	16°37'39	15°23	3°12	7°27	18°40	19°13	23°44	6°51	29°31	22°54	22°R44	23°39	24°59	16° 0	S 9
S 10	21 14 16	17°35'08	27°21	2°50	8°36	19°18	19°26	23°39	6°52	29°33	22°56	22°44	23°36	25° 6	16° 0	S 10
M 11	21 18 12	18°32'38	9♂32	2°23	9°46	19°55	19°40	23°35	6°53	29°35	22°57	22°41	23°33	25°12	16° 1	M 11
T 12	21 22 9	19°30'08	22° 1	1°52	10°55	20°33	19°53	23°31	6°55	29°36	22°58	22°37	23°30	25°19	16° 1	T 12
W 13	21 26 6	20°27'40	4♂52	1°16	12° 4	21°11	20° 6	23°26	6°56	29°38	22°59	22°31	23°26	25°26	16° 2	W 13
T 14	21 30 2	21°25'12	18° 7	0°36	13°14	21°49	20°19	23°22	6°58	29°39	23° 1	22°22	23°23	25°32	16° 2	T 14
F 15	21 33 59	22°22'45	1♂46	29♂52	14°23	22°26	20°32	23°17	6°59	29°41	23° 2	22°13	23°20	25°39	16° 3	F 15
S 16	21 37 55	23°20'19	15°46	29° 6	15°33	23° 4	20°46	23°13	7° 1	29°42	23° 4	22° 3	23°17	25°46	16° 3	S 16
S 17	21 41 52	24°17'54	0♂ 5	28°17	16°43	23°42	20°59	23° 8	7° 3	29°44	23° 5	21°55	23°14	25°52	16° 3	S 17
M 18	21 45 48	25°15'30	14°35	27°27	17°52	24°20	21°12	23° 4	7° 4	29°45	23° 7	21°48	23°11	25°59	16° 3	M 18
T 19	21 49 45	26°13'07	29°11	26°37	19° 2	24°58	21°25	22°59	7° 6	29°47	23° 8	21°44	23° 7	26° 6	16° 3	T 19
W 20	21 53 41	27°10'46	13°Y45	25°48	20°12	25°36	21°38	22°55	7° 8	29°48	23°10	21°42	23° 4	26°12	16°R 3	W 20
T 21	21 57 38	28° 8'27	28°14	25° 0	21°23	26°13	21°51	22°50	7°10	29°49	23°11	21°D42	23° 1	26°19	16° 3	T 21
F 22	22 1 35	29° 6'09	12♂33	24°14	22°33	26°52	22° 5	22°46	7°12	29°51	23°13	21°43	22°58	26°25	16° 3	F 22
S 23	22 5 31	0♂ 3'52	26°41	23°32	23°43	27°30	22°18	22°41	7°14	29°52	23°14	21°R43	22°55	26°32	16° 3	S 23
S 24	22 9 28	1° 1'38	10♂36	22°55	24°54	28° 8	22°31	22°37	7°16	29°53	23°16	21°43	22°51	26°39	16° 3	S 24
M 25	22 13 24	1°59'25	24°18	22°23	26° 4	28°46	22°44	22°32	7°18	29°55	23°18	21°41	22°48	26°45	16° 3	M 25
T 26	22 17 21	2°57'14	7♂47	21°57	27°15	29°24	22°57	22°28	7°20	29°56	23°19	21°37	22°45	26°52	16° 2	T 26
W 27	22 21 17	3°55'04	21° 3	21°37	28°26	0♂ 2	23°10	22°24	7°22	29°57	23°21	21°30	22°42	26°59	16° 2	W 27
T 28	22 25 14	4°52'56	4♂ 7	21°25	29°37	0°40	23°23	22°19	7°24	29°58	23°23	21°23	22°39	27° 5	16° 1	T 28
F 29	22 29 10	5°50'50	16°57	21°D20	0♂47	1°19	23°36	22°15	7°26	29°59	23°24	21°15	22°36	27°12	16° 1	F 29
S 30	22 33 7	6°48'45	29°34	21°23	1°58	1°57	23°49	22°11	7°29	0♂ 0	23°26	21° 7	22°32	27°19	16° 0	S 30
S 31	22 37 4	7♂46'41	11♂59	21♂34	3♂10	2♂36	24♂ 2	22°11	7♂31	0♂ 2	23°28	21°Y 0	22°Y29	27°25	16♂ 0	S 31

Day	☉	☾			♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	18n 0	23n 0	4n52	7n43	2s52	21n29	1s55	7n17	0n56	16n12	0n39	14s35	1s15	13s19	0n27	22n11	1s14	6n57	16n58	9n 4	9n20	9s20	15n19	1s18					
S 2	17 44	18 47	4 28	7 25	3 4	21 32	1 52	7 2	0 56	16 8	0 39	14 37	1 16	13 19	0 27	22 11	1 14	6 56	16 58	9 0	9 19	9 24	15 20	1 18					
S 3	17 29	13 50	3 51	7 8	3 17	21 35	1 49	6 47	0 55	16 4	0 39	14 38	1 16	13 19	0 27	22 11	1 14	6 55	16 57	8 56	9 17	9 27	15 20	1 19					
M 4	17 13	8 25	3 3	6 53	3 29	21 38	1 46	6 32	0 55	16 0	0 39	14 40	1 16	13 20	0 27	22 11	1 14	6 54	16 57	8 53	9 16	9 30	15 20	1 19					
T 5	16 57	2 46	2 8	6 41	3 41	21 40	1 43	6 17	0 54	15 56	0 39	14 41	1 16	13 20	0 27	22 11	1 14	6 53	16 56	8 51	9 15	9 33	15 20	1 19					
W 6	16 41	2s53	1 8	6 30	3 52	21 41	1 40	6 2	0 54	15 52	0 39	14 43	1 16	13 21	0 27	22 11	1 14	6 52	16 56	8 50	9 14	9 37	15 20	1 19					
T 7	16 24	8 23	0 5	6 22	4 3	21 42	1 37	5 47	0 53	15 48	0 39	14 45	1 16	13 21	0 27	22 11	1 14	6 51	16 55	8 50	9 13	9 40	15 20	1 19					
F 8	16 7	13 35	0s57	6 17	4 13	21 42	1 34	5 32	0 53	15 44	0 39	14 46	1 16	13 21	0 27	22 11	1 14	6 51	16 55	8 50	9 12	9 43	15 20	1 19					
S 9	15 50	18 18	1 58	6 14	4 23	21 42	1 31	5 17	0 52	15 40	0 39	14 48	1 16	13 22	0 27	22 11	1 14	6 50	16 54	8 50	9 10	9 46	15 20	1 20					
S 10	15 33	22 22	2 54	6 14	4 31	21 41	1 27	5 1	0 52	15 36	0 39	14 49	1 16	13 22	0 27	22 11	1 14	6 49	16 54	8 50	9 9	9 50	15 20	1 20					
M 11	15 15	25 32	3 43	6 17	4 38	21 39	1 24	4 46	0 51	15 31	0 39	14 51	1 16	13 23	0 27	22 11	1 14	6 48	16 53	8 49	9 8	9 53	15 20	1 20					
T 12	14 57	27 33	4 23	6 23	4 44	21 37	1 21	4 31	0 51	15 27	0 39	14 52	1 17	13 23	0 26	22 11	1 14	6 47	16 53	8 47	9 7	9 56	15 20	1 20					
W 13	14 39	28 10	4 50	6 31	4 48	21 35	1 18	4 16	0 50	15 23	0 39	14 54	1 17	13 24	0 26	22 11	1 14	6 46	16 52	8 45	9 6	9 59	15 20	1 20					
T 14	14 21	27 12	5 4	6 43	4 51	21 31	1 14	4 0	0 49	15 19	0 39	14 56	1 17	13 24	0 26	22 10	1 14	6 45	16 52	8 42	9 4	10 3	15 20	1 20					
F 15	14 2	24 37	5 0	6 57	4 52	21 28	1 11	3 45	0 49	15 15	0 39	14 57	1 17	13 25	0 26	22 10	1 14	6 44	16 51	8 38	9 3	10 6	15 20	1 20					
S 16	13 43	20 32	4 39	7 13	4 51	21 23	1 7	3 29	0 48	15 11	0 40	14 59	1 17	13 26	0 26	22 10	1 14	6 43	16 51	8 35	9 2	10 9	15 20	1 21					
S 17	13 24	15 11	4 0	7 32	4 49	21 18	1 4	3 14	0 48	15 7	0 40	15 0	1 17	13 26	0 26	22 10	1 14	6 42	16 50	8 32	9 1	10 12	15 20	1 21					
M 18	13 5	8 55	3 5	7 53	4 45	21 13	1 1	2 58	0 47	15 3	0 40	15 2	1 17	13 27	0 26	22 10	1 14	6 41	16 50	8 29	9 0	10 16	15 20	1 21					
T 19	12 46	2 8	1 58	8 15	4 39	21 7	0 57	2 43	0 47	14 58	0 40	15 3	1 17	13 27	0 26	22 10	1 14	6 40	16 49	8 28	8 59	10 19	15 20	1 21					
W 20	12 26	4n46	0 43	8 40	4 31	21 0	0 54	2 27	0 46	14 54	0 40	15 5	1 17	13 28	0 26	22 10	1 14	6 39	16 49	8 27	8 57	10 22	15 20	1 21					
T 21	12 6	11 23	0n35	9 5	4 21	20 53	0 51	2 12	0 46	14 50	0 40	15 6	1 17	13 29	0 26	22 10	1 14	6 38	16 49	8 27	8 56	10 25	15 19	1 21					
F 22	11 46	17 20	1 50	9 30	4 9	20 45	0 47	1 56	0 45	14 46	0 40	15 8	1 17	13 29	0 26	22 10	1 14	6 37	16 48	8 27	8 55	10 29	15 19	1 22					
S 23	11 26	22 15	2 57	9 56	3 56	20 37	0 44	1 41	0 45	14 42	0 40	15 9	1 17	13 30	0 26	22 10	1 14	6 36	16 48	8 27	8 54	10 32	15 19	1 22					
S 24	11 6	25 51	3 52	10 22	3 42	20 28	0 40	1 25	0 44	14 38	0 40	15 11	1 17	13 31	0 26	22 10	1 14	6 35	16 47	8 27	8 53	10 35	15 19	1 22					
M 25	10 45	27 51	4 34	10 47	3 26	20 18	0 37	1 9	0 44	14 33	0 40	15 12	1 18	13 31	0 26	22 10	1 14	6 35	16 47	8 26	8 52	10 38	15 19	1 22					
T 26	10 25	28 9	4 59	11 11	3 10	20 8	0 34	0 54	0 43	14 29	0 40	15 14	1 18	13 32	0 26	22 10	1 15	6 34	16 46	8 25	8 50	10 41	15 18	1 22					
W 27	10 4	26 50	5 8	11 33	2 53	19 58	0 30	0 38	0 42	14 25	0 40	15 15	1 18	13 33	0 26	22 10	1 15	6 33	16 46	8 23	8 49	10 45	15 18	1 22					
T 28	9 43	24 4	5 0	11 54	2 35	19 46	0 27	0 22	0 42	14 21	0 41	15 17	1 18	13 33	0 26	22 10	1 15	6 32	16 46	8 20	8 48	10 48	15 18	1 23					
F 29	9 21	20 9	4 38	12 13	2 16	19 35	0 23	0 7	0 41	14 17	0 41	15 18	1 18	13 34	0 26	22 10	1 15	6 31	16 45	8 17	8 47	10 51	15 18	1 23					
S 30	9 0	15 23	4 2	12 30	1 58	19 22	0 20	0s 9	0 41	14 12	0 41	15 20	1 18	13 35	0 26	22 10	1 15	6 30	16 45	8 14	8 46	10 54	15 17	1 23					
S 31	8n39	10n 4	3n15	12n43	1s40	19n 9	0s17	0s25	0n40	14n 8	0n41	15s21	1s18	13s36	0n26	22n10	1s15	6n29	16n44	8n11	8n44	10s57	15n17	1s23					

ASTRODIENST EPHEMERIS for the year 2228
geocentric

SEPTEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 41 0	8♐44'39	24♐11	21♏53	4♏21	3♏14	24♏15	22°R 2	7♐33	0♏3	23♏30	20°R55	22°Y26	27♏32	15°R59	M 1
T 2	22 44 57	9°42'39	6♏13	22°21	5°32	3°52	24°28	21°58	7°36	0°4	23°32	20°Y52	22°23	27°39	15°58	T 2
W 3	22 48 53	10°40'40	18°6	22°56	6°43	4°31	24°41	21°54	7°38	0°5	23°33	20°D51	22°20	27°45	15°58	W 3
T 4	22 52 50	11°38'42	29°54	23°39	7°55	5°10	24°54	21°50	7°40	0°6	23°35	20°51	22°17	27°52	15°57	T 4
F 5	22 56 46	12°36'46	11♐41	24°30	9°6	5°48	25°7	21°46	7°43	0°7	23°37	20°53	22°13	27°59	15°56	F 5
S 6	23 0 43	13°34'51	23°30	25°28	10°18	6°27	25°20	21°41	7°46	0°7	23°39	20°54	22°10	28°5	15°55	S 6
S 7	23 4 39	14°32'58	5♐27	26°33	11°29	7°5	25°33	21°38	7°48	0°8	23°41	20°56	22°7	28°12	15°54	S 7
M 8	23 8 36	15°31'06	17°37	27°45	12°41	7°44	25°45	21°34	7°51	0°9	23°43	20°R56	22°4	28°18	15°53	M 8
T 9	23 12 33	16°29'16	0♐5	29°3	13°53	8°23	25°58	21°30	7°53	0°10	23°45	20°55	22°1	28°25	15°52	T 9
W10	23 16 29	17°27'27	12°54	0♐26	15°5	9°2	26°11	21°26	7°56	0°11	23°47	20°53	21°57	28°32	15°51	W10
T 11	23 20 26	18°25'39	26°9	1°54	16°17	9°41	26°24	21°22	7°59	0°12	23°49	20°49	21°54	28°38	15°50	T 11
F 12	23 24 22	19°23'53	9♐51	3°27	17°29	10°20	26°36	21°18	8°2	0°12	23°51	20°45	21°51	28°45	15°48	F 12
S 13	23 28 19	20°22'09	23°59	5°5	18°41	10°58	26°49	21°15	8°4	0°13	23°53	20°40	21°48	28°52	15°47	S 13
S 14	23 32 15	21°20'26	8♐30	6°45	19°53	11°37	27°1	21°11	8°7	0°14	23°55	20°36	21°45	28°58	15°46	S 14
M15	23 36 12	22°18'45	23°17	8°29	21°5	12°16	27°14	21°8	8°10	0°14	23°57	20°33	21°42	29°5	15°44	M15
T 16	23 40 8	23°17'05	8♐15	10°15	22°18	12°55	27°26	21°4	8°13	0°15	24°0	20°31	21°38	29°12	15°43	T 16
W17	23 44 5	24°15'28	23°13	12°3	23°30	13°35	27°39	21°1	8°16	0°15	24°2	20°D30	21°35	29°18	15°41	W17
T 18	23 48 2	25°13'52	8♐4	13°52	24°43	14°14	27°51	20°57	8°19	0°16	24°4	20°31	21°32	29°25	15°40	T 18
F 19	23 51 58	26°12'19	22°42	15°43	25°55	14°53	28°4	20°54	8°22	0°16	24°6	20°32	21°29	29°32	15°38	F 19
S 20	23 55 55	27°10'47	7♐2	17°35	27°8	15°32	28°16	20°51	8°25	0°17	24°8	20°34	21°26	29°38	15°36	S 20
S 21	23 59 51	28°9'18	21°3	19°27	28°21	16°11	28°28	20°48	8°28	0°17	24°10	20°35	21°23	29°45	15°35	S 21
M22	0 3 48	29°7'52	4♐43	21°19	29°33	16°51	28°40	20°45	8°31	0°18	24°13	20°R35	21°19	29°51	15°33	M22
T 23	0 7 44	0♐6'27	18°4	23°12	0♐46	17°30	28°53	20°42	8°34	0°18	24°15	20°34	21°16	29°58	15°31	T 23
W24	0 11 41	1°5'04	1♐6	25°4	1°59	18°10	29°5	20°39	8°37	0°18	24°17	20°32	21°13	0♐5	15°29	W24
T 25	0 15 37	2°3'44	13°53	26°56	3°12	18°49	29°17	20°36	8°41	0°19	24°19	20°30	21°10	0°11	15°27	T 25
F 26	0 19 34	3°2'26	26°25	28°48	4°25	19°28	29°29	20°33	8°44	0°19	24°22	20°27	21°7	0°18	15°25	F 26
S 27	0 23 31	4°1'10	8♐45	0♐38	5°38	20°8	29°41	20°31	8°47	0°19	24°24	20°24	21°3	0°25	15°23	S 27
S 28	0 27 27	4°59'55	20°54	2°29	6°51	20°48	29°53	20°28	8°50	0°19	24°26	20°22	21°0	0°31	15°21	S 28
M29	0 31 24	5°58'43	2♐55	4°18	8°5	21°27	0♐4	20°26	8°54	0°20	24°28	20°21	20°57	0°38	15°19	M29
T 30	0 35 20	6♐57'33	14♐49	6♐7	9♐18	22♐7	0♐16	20°23	8♐57	0°20	24♐31	20°D20	20°Y54	0♐45	15°17	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n17	4n27	2n20	12n55	1s21	18n56	0s13	0s41	0n40	14n 4	0n41	15s23	1s18	13s36	0n26	22n10	1s15	6n28	16n44	8n 9	8n43	11s 1	15n17	1s23	
T 2	7 55	1s15	1 19	13 3	1 4	18 42	0 10	0 56	0 39	14 0	0 41	15 24	1 18	13 37	0 26	22 10	1 15	6 27	16 44	8 8	8 42	11 4	15 16	1 23	
W 3	7 33	6 52	0 15	13 8	0 46	18 28	0 7	1 12	0 39	13 55	0 41	15 25	1 18	13 38	0 26	22 10	1 15	6 26	16 43	8 8	8 41	11 7	15 16	1 24	
T 4	7 11	12 12	0s49	13 9	0 29	18 13	0 4	1 28	0 38	13 51	0 41	15 27	1 18	13 39	0 26	22 10	1 15	6 25	16 43	8 8	8 40	11 10	15 15	1 24	
F 5	6 49	17 5	1 51	13 8	0 13	17 57	0 1	1 44	0 38	13 47	0 41	15 28	1 18	13 40	0 26	22 10	1 15	6 24	16 43	8 8	8 39	11 13	15 15	1 24	
S 6	6 27	21 21	2 49	13 3	0n 2	17 41	0n 3	1 59	0 37	13 43	0 41	15 29	1 18	13 41	0 26	22 10	1 15	6 23	16 42	8 9	8 37	11 17	15 15	1 24	
S 7	6 5	24 47	3 40	12 54	0 16	17 24	0 6	2 15	0 36	13 39	0 42	15 31	1 18	13 41	0 26	22 10	1 15	6 22	16 42	8 10	8 36	11 20	15 14	1 24	
M 8	5 42	27 11	4 22	12 42	0 30	17 7	0 9	2 31	0 36	13 34	0 42	15 32	1 18	13 42	0 26	22 10	1 15	6 21	16 41	8 10	8 35	11 23	15 14	1 24	
T 9	5 20	28 17	4 52	12 27	0 42	16 50	0 12	2 47	0 35	13 30	0 42	15 33	1 18	13 43	0 26	22 10	1 15	6 20	16 41	8 9	8 34	11 26	15 13	1 24	
W10	4 57	27 55	5 10	12 8	0 53	16 32	0 15	3 3	0 35	13 26	0 42	15 34	1 18	13 44	0 26	22 10	1 15	6 19	16 41	8 8	8 33	11 29	15 13	1 25	
T 11	4 34	25 59	5 11	11 46	1 4	16 14	0 18	3 18	0 34	13 22	0 42	15 36	1 18	13 45	0 26	22 10	1 15	6 18	16 41	8 7	8 31	11 33	15 12	1 25	
F 12	4 12	22 30	4 56	11 21	1 13	15 55	0 21	3 34	0 34	13 18	0 42	15 37	1 18	13 46	0 26	22 10	1 15	6 17	16 40	8 5	8 30	11 36	15 12	1 25	
S 13	3 49	17 37	4 22	10 54	1 21	15 35	0 24	3 50	0 33	13 13	0 42	15 38	1 18	13 47	0 26	22 10	1 15	6 16	16 40	8 4	8 29	11 39	15 11	1 25	
S 14	3 26	11 38	3 30	10 23	1 28	15 15	0 27	4 6	0 33	13 9	0 42	15 39	1 18	13 48	0 26	22 10	1 15	6 15	16 40	8 2	8 28	11 42	15 11	1 25	
M15	3 3	4 52	2 24	9 50	1 34	14 55	0 30	4 21	0 32	13 5	0 42	15 40	1 18	13 49	0 26	22 10	1 15	6 14	16 39	8 1	8 27	11 45	15 10	1 25	
T 16	2 40	2n14	1 7	9 15	1 39	14 34	0 32	4 37	0 31	13 1	0 43	15 41	1 18	13 50	0 26	22 10	1 15	6 13	16 39	8 0	8 26	11 49	15 10	1 26	
W17	2 17	9 14	0n15	8 37	1 43	14 13	0 35	4 53	0 31	12 57	0 43	15 43	1 18	13 51	0 25	22 9	1 15	6 12	16 39	8 0	8 24	11 52	15 9	1 26	
T 18	1 54	15 41	1 35	7 58	1 46	13 52	0 38	5 8	0 30	12 53	0 43	15 44	1 18	13 52	0 25	22 9	1 15	6 11	16 39	8 0	8 23	11 55	15 8	1 26	
F 19	1 30	21 8	2 48	7 17	1 48	13 30	0 40	5 24	0 30	12 48	0 43	15 45	1 18	13 53	0 25	22 9	1 15	6 10	16 38	8 1	8 22	11 58	15 8	1 26	
S 20	1 7	25 13	3 49	6 35	1 49	13 8	0 43	5 40	0 29	12 44	0 43	15 46	1 18	13 54	0 25	22 9	1 15	6 9	16 38	8 1	8 21	12 1	15 7	1 26	
S 21	0 44	27 41	4 35	5 51	1 50	12 45	0 46	5 55	0 29	12 40	0 43	15 47	1 18	13 55	0 25	22 9	1 15	6 8	16 38	8 2	8 20	12 4	15 7	1 26	
M22	0 21	28 23	5 4	5 7	1 49	12 22	0 48	6 11	0 28	12 36	0 43	15 48	1 18	13 56	0 25	22 9	1 15	6 7	16 38	8 2	8 18	12 8	15 6	1 26	
T 23	0s 3	27 24	5 15	4 21	1 48	11 59	0 51	6 26	0 28	12 32	0 43	15 49	1 18	13 57	0 25	22 9	1 15	6 6	16 37	8 1	8 17	12 11	15 5	1 27	
W24	0 26	24 56	5 10	3 35	1 47	11 35	0 53	6 42	0 27	12 28	0 44	15 49	1 18	13 58	0 25	22 9	1 15	6 5	16 37	8 1	8 16	12 14	15 5	1 27	
T 25	0 49	21 16	4 50	2 49	1 44	11 11	0 55	6 57	0 26	12 24	0 44	15 50	1 18	13 59	0 25	22 9	1 16	6 4	16 37	8 0	8 15	12 17	15 4	1 27	
F 26	1 12	16 42	4 16	2 2	1 42	10 46	0 57	7 13	0 26	12 20	0 44	15 51	1 18	14 0	0 25	22 9	1 16	6 3	16 37	7 59	8 14	12 20	15 3	1 27	
S 27	1 36	11 32	3 30	1 15	1 38	10 21	1 0	7 28	0 25	12 15	0 44	15 52	1 18	14 1	0 25	22 9	1 16	6 2	16 37	7 58	8 12	12 23	15 2	1 27	
S 28	1 59	5 59	2 36	0 28	1 35	9 56	1 2	7 44	0 25	12 11	0 44	15 53	1 18	14 2	0 25	22 9	1 16	6 1	16 36	7 57	8 11	12 26	15 2	1 27	
M29	2 22	0 18	1 35	0s19	1 31	9 31	1 4	7 59	0 24	12 7	0 44	15 54	1 18	14 3	0 25	22 9	1 16	6 0	16 36	7 56	8 10	12 30	15 1	1 28	
T 30	2s46	5s22	0n31	1s 6	1n26	9n 5	1n 6	8s14	0n24	12n 3	0n44	15s54	1s18	14s 4	0n25	22n 9	1s16	5n59	16n36	7n56	8n 9	12s33	15n 0	1s28	

ASTRODIENST EPHEMERIS for the year 2228
geocentric

OCTOBER 2228

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	0 39 17	7♏56'25	26♊38	7♏55	10♐31	22♏47	0♐28	20°R21	9♐ 0	0♏20	24♏33	20°Y20	20°Y51	0♐51	15°R15	W 1
T 2	0 43 13	8°55'19	8♐25	9°42	11°45	23°26	0°40	20♏19	9° 4	0°20	24°35	20°21	20°48	0°58	15♏13	T 2
F 3	0 47 10	9°54'14	20°12	11°29	12°58	24° 6	0°51	20°17	9° 7	0°R20	24°38	20°22	20°44	1° 5	15°11	F 3
S 4	0 51 6	10°53'12	2♊ 2	13°14	14°12	24°46	1° 3	20°15	9°10	0°20	24°40	20°23	20°41	1°11	15° 8	S 4
S 5	0 55 3	11°52'11	14° 0	14°58	15°25	25°26	1°14	20°13	9°14	0°20	24°42	20°23	20°38	1°18	15° 6	S 5
M 6	0 59 0	12°51'12	26°10	16°42	16°39	26° 6	1°25	20°11	9°17	0°20	24°45	20°24	20°35	1°25	15° 4	M 6
T 7	1 2 56	13°50'15	8♊35	18°25	17°53	26°46	1°37	20° 9	9°21	0°20	24°47	20°R24	20°32	1°31	15° 1	T 7
W 8	1 6 53	14°49'20	21°20	20° 7	19° 6	27°26	1°48	20° 7	9°24	0°19	24°49	20°24	20°29	1°38	14°59	W 8
T 9	1 10 49	15°48'26	4♏28	21°48	20°20	28° 6	1°59	20° 6	9°28	0°19	24°52	20°24	20°25	1°44	14°56	T 9
F 10	1 14 46	16°47'34	18° 3	23°28	21°34	28°46	2°10	20° 4	9°31	0°19	24°54	20°24	20°22	1°51	14°54	F 10
S 11	1 18 42	17°46'44	2♋ 5	25° 8	22°48	29°27	2°21	20° 3	9°35	0°19	24°56	20°23	20°19	1°58	14°51	S 11
S 12	1 22 39	18°45'55	16°33	26°47	24° 2	0♐ 7	2°32	20° 2	9°38	0°19	24°59	20°23	20°16	2° 4	14°49	S 12
M13	1 26 35	19°45'08	1°Y24	28°24	25°16	0°47	2°43	20° 0	9°42	0°18	25° 1	20°23	20°13	2°11	14°46	M13
T 14	1 30 32	20°44'24	16°30	0♐ 2	26°30	1°27	2°54	19°59	9°46	0°18	25° 4	20°23	20° 9	2°18	14°44	T 14
W15	1 34 28	21°43'41	1♊42	1°38	27°44	2° 8	3° 4	19°58	9°49	0°18	25° 6	20°23	20° 6	2°24	14°41	W15
T 16	1 38 25	22°43'00	16°52	3°14	28°58	2°48	3°15	19°57	9°53	0°17	25° 8	20°23	20° 3	2°31	14°38	T 16
F 17	1 42 22	23°42'22	1♐49	4°49	0♏12	3°29	3°26	19°57	9°56	0°17	25°11	20°23	20° 0	2°38	14°35	F 17
S 18	1 46 18	24°41'46	16°27	6°23	1°26	4° 9	3°36	19°56	10° 0	0°16	25°13	20°22	19°57	2°44	14°33	S 18
S 19	1 50 15	25°41'12	0♏41	7°57	2°40	4°50	3°46	19°55	10° 4	0°16	25°16	20°22	19°54	2°51	14°30	S 19
M20	1 54 11	26°40'40	14°30	9°30	3°55	5°30	3°56	19°55	10° 8	0°15	25°18	20°21	19°50	2°58	14°27	M20
T 21	1 58 8	27°40'11	27°52	11° 2	5° 9	6°11	4° 7	19°55	10°11	0°15	25°20	20°D21	19°47	3° 4	14°24	T 21
W22	2 2 4	28°39'44	10♊50	12°34	6°23	6°52	4°17	19°54	10°15	0°14	25°23	20°21	19°44	3°11	14°22	W22
T 23	2 6 1	29°39'19	23°29	14° 5	7°38	7°33	4°27	19°54	10°19	0°13	25°25	20°22	19°41	3°18	14°19	T 23
F 24	2 9 58	0♐38'57	5♐50	15°35	8°52	8°13	4°36	19°D54	10°22	0°13	25°28	20°23	19°38	3°24	14°16	F 24
S 25	2 13 54	1°38'36	17°58	17° 5	10° 7	8°54	4°46	19°54	10°26	0°12	25°30	20°24	19°34	3°31	14°13	S 25
S 26	2 17 51	2°38'18	29°56	18°34	11°21	9°35	4°56	19°54	10°30	0°11	25°32	20°25	19°31	3°37	14°10	S 26
M27	2 21 47	3°38'02	11♏48	20° 3	12°36	10°16	5° 5	19°54	10°34	0°11	25°35	20°26	19°28	3°44	14° 7	M27
T 28	2 25 44	4°37'48	23°37	21°31	13°51	10°57	5°15	19°55	10°37	0°10	25°37	20°R26	19°25	3°51	14° 4	T 28
W29	2 29 40	5°37'36	5♐24	22°58	15° 5	11°38	5°24	19°55	10°41	0° 9	25°39	20°25	19°22	3°57	14° 1	W29
T 30	2 33 37	6°37'26	17°12	24°24	16°20	12°19	5°33	19°55	10°45	0° 8	25°42	20°24	19°19	4° 4	13°59	T 30
F 31	2 37 33	7♐37'18	29♐ 3	25♐50	17♏35	13♐ 0	5♐42	19°56	10♐49	0♏ 7	25°44	20°Y22	19°Y15	4♐11	13♏56	F 31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
W 1	3s 9	10s48	0s35	1s53	1n21	8n40	1n 8	8s30	0n23	11n59	0n45	15s55	1s18	14s 5	0n25	22n 9	1s16	5n58	16n36	7n56	8n 8	12s36	14n59	1s28			
T 2	3 32	15 51	1 39	2 40	1 16	8 13	1 10	8 45	0 22	11 55	0 45	15 56	1 18	14 6	0 25	22 9	1 16	5 57	16 36	7 56	8 7	12 39	14 59	1 28			
F 3	3 55	20 19	2 38	3 27	1 11	7 47	1 11	9 0	0 22	11 51	0 45	15 56	1 18	14 7	0 25	22 9	1 16	5 56	16 36	7 57	8 5	12 42	14 58	1 28			
S 4	4 18	24 0	3 31	4 13	1 5	7 20	1 13	9 15	0 21	11 47	0 45	15 57	1 18	14 8	0 25	22 9	1 16	5 55	16 35	7 57	8 4	12 45	14 57	1 28			
S 5	4 41	26 41	4 16	4 59	0 59	6 53	1 15	9 30	0 21	11 44	0 45	15 58	1 18	14 9	0 25	22 9	1 16	5 54	16 35	7 57	8 3	12 48	14 56	1 28			
M 6	5 4	28 11	4 50	5 44	0 53	6 26	1 17	9 45	0 20	11 40	0 45	15 58	1 18	14 11	0 25	22 9	1 16	5 53	16 35	7 58	8 2	12 52	14 55	1 28			
T 7	5 27	28 18	5 11	6 29	0 47	5 59	1 18	10 0	0 20	11 36	0 45	15 59	1 18	14 12	0 25	22 9	1 16	5 52	16 35	7 58	8 1	12 55	14 55	1 29			
W 8	5 50	26 57	5 18	7 14	0 41	5 32	1 20	10 15	0 19	11 32	0 46	15 59	1 18	14 13	0 25	22 9	1 16	5 51	16 35	7 58	7 59	12 58	14 54	1 29			
T 9	6 13	24 6	5 8	7 58	0 34	5 4	1 21	10 30	0 19	11 28	0 46	16 0	1 18	14 14	0 25	22 9	1 16	5 50	16 35	7 58	7 58	13 1	14 53	1 29			
F 10	6 36	19 52	4 42	8 41	0 27	4 36	1 22	10 45	0 18	11 24	0 46	16 0	1 18	14 15	0 25	22 9	1 16	5 50	16 35	7 58	7 57	13 4	14 52	1 29			
S 11	6 58	14 25	3 58	9 24	0 21	4 8	1 24	11 0	0 17	11 20	0 46	16 0	1 18	14 16	0 25	22 9	1 16	5 49	16 35	7 57	7 56	13 7	14 51	1 29			
S 12	7 21	8 1	2 57	10 6	0 14	3 40	1 25	11 14	0 17	11 17	0 46	16 1	1 17	14 17	0 25	22 9	1 16	5 48	16 35	7 57	7 55	13 10	14 50	1 29			
M13	7 43	1 2	1 44	10 47	0 7	3 12	1 26	11 29	0 16	11 13	0 46	16 1	1 17	14 18	0 25	22 9	1 16	5 47	16 35	7 57	7 53	13 13	14 50	1 29			
T 14	8 5	6n 9	0 22	11 28	0 0	2 43	1 27	11 43	0 16	11 9	0 47	16 1	1 17	14 20	0 25	22 9	1 16	5 46	16 35	7 57	7 52	13 16	14 49	1 30			
W15	8 28	13 2	1n 3	12 8	0s 7	2 15	1 28	11 58	0 15	11 5	0 47	16 2	1 17	14 21	0 25	22 8	1 16	5 45	16 35	7 57	7 51	13 20	14 48	1 30			
T 16	8 50	19 7	2 22	12 47	0 14	1 46	1 29	12 12	0 15	11 2	0 47	16 2	1 17	14 22	0 25	22 8	1 16	5 44	16 35	7 57	7 50	13 23	14 47	1 30			
F 17	9 12	23 56	3 31	13 26	0 21	1 17	1 30	12 27	0 14	10 58	0 47	16 2	1 17	14 23	0 25	22 8	1 16	5 44	16 35	7 57	7 49	13 26	14 46	1 30			
S 18	9 33	27 6	4 24	14 4	0 28	0 49	1 30	12 41	0 13	10 55	0 47	16 2	1 17	14 24	0 25	22 8	1 16	5 43	16 35	7 57	7 47	13 29	14 45	1 30			
S 19	9 55	28 24	4 59	14 41	0 35	0 20	1 31	12 55	0 13	10 51	0 47	16 2	1 17	14 25	0 25	22 8	1 16	5 42	16 35	7 57	7 46	13 32	14 44	1 30			
M20	10 17	27 52	5 16	15 18	0 41	0s 9	1 32	13 9	0 12	10 47	0 48	16 3	1 17	14 27	0 25	22 8	1 16	5 41	16 35	7 57	7 45	13 35	14 43	1 30			
T 21	10 38	25 42	5 15	15 53	0 48	0 38	1 32	13 23	0 12	10 44	0 48	16 3	1 17	14 28	0 25	22 8	1 16	5 40	16 35	7 57	7 44	13 38	14 42	1 30			
W22	10 59	22 16	4 58	16 28	0 55	1 7	1 33	13 37	0 11	10 40	0 48	16 3	1 17	14 29	0 25	22 8	1 16	5 39	16 35	7 57	7 43	13 41	14 41	1 30			
T 23	11 20	17 52	4 26	17 2	1 2	1 36	1 33	13 51	0 10	10 37	0 48	16 3	1 17	14 30	0 25	22 8	1 16	5 39	16 35	7 57	7 41	13 44	14 40	1 31			
F 24	11 41	12 49	3 43	17 35	1 8	2 5	1 33	14 5	0 10	10 34	0 48	16 3	1 17	14 31	0 25	22 8	1 16	5 38	16 35	7 57	7 40	13 47	14 39	1 31			
S 25	12 2	7 22	2 51	18 7	1 15	2 34	1 34	14 18	0 9	10 30	0 48	16 3	1 17	14 32	0 25	22 8	1 17	5 37	16 35	7 58	7 39	13 50	14 39	1 31			
S 26	12 22	1 44	1 51	18 38	1 21	3 3	1 34	14 32	0 9	10 27	0 49	16 3	1 17	14 34	0 25	22 8	1 17	5 36	16 35	7 58	7 38	13 54	14 38	1 31			
M27	12 43	3s56	0 48	19 8	1 28	3 32	1 34	14 45	0 8	10 23	0 49	16 2	1 17	14 35	0 25	22 8	1 17	5 36	16 35	7 58	7 37	13 57	14 37	1 31			
T 28	13 3	9 26	0s18	19 38	1 34	4 1	1 34	14 59	0 8	10 20	0 49	16 2	1 17	14 36	0 25	22 8	1 17	5 35	16 35	7 58	7 35	14 0	14 36	1 31			
W29	13 23	14 36	1 22	20 6	1 40	4 30	1 34	15 12	0 7	10 17	0 49	16 2	1 17	14 37	0 25	22 8	1 17	5 34	16 35	7 58	7 34	14 3	14 35	1 31			
T 30	13 43	19 14	2 23	20 33	1 46	4 58	1 34	15 25	0 6	10 14	0 49	16 2	1 17	14 38	0 25	22 8	1 17	5 33	16 35	7 58	7 33	14 6	14 34	1 31			
F 31	14s 2	23s 8	3s18	21s 0	1s51	5s27	1n34	15s38	0n 6	10n11	0n50	16s 2	1s16	14s40	0n25	22n 8	1s17	5n33	16n35	7n57	7n32	14s 9	14n33	1s31			

ASTRODIENST EPHEMERIS for the year 2228

geocentric

NOVEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 41 30	8♍37°12	11♌0	27♍15	18♌49	13♍42	5♍51	19♌57	10♍52	0°R 6	25♌47	20°R19	19♍12	4♍17	13°R53	S 1
S 2	2 45 26	9°37'07	23° 4	28°40	20° 4	14°23	6° 0	19°58	10°56	0°5 5	25°49	20°Y16	19° 9	4°24	13°R50	S 2
M 3	2 49 23	10°37'05	5♌18	0♌3	21°19	15° 4	6° 9	19°59	11° 0	0° 5	25°51	20°13	19° 6	4°31	13°47	M 3
T 4	2 53 20	11°37'04	17°45	1°26	22°34	15°46	6°18	20° 0	11° 4	0° 4	25°54	20°10	19° 3	4°37	13°44	T 4
W 5	2 57 16	12°37'04	0♌28	2°48	23°49	16°27	6°26	20° 1	11° 7	0° 3	25°56	20° 9	19° 0	4°44	13°41	W 5
T 6	3 1 13	13°37'06	13°30	4° 9	25° 4	17° 8	6°35	20° 2	11°11	0° 1	25°58	20°D 8	18°56	4°51	13°38	T 6
F 7	3 5 9	14°37'10	26°55	5°29	26°18	17°50	6°43	20° 3	11°15	0° 0	26° 1	20° 9	18°53	4°57	13°35	F 7
S 8	3 9 6	15°37'15	10♌44	6°47	27°33	18°31	6°51	20° 5	11°19	29♌59	26° 3	20°10	18°50	5° 4	13°32	S 8
S 9	3 13 2	16°37'22	24°58	8° 5	28°48	19°13	6°59	20° 6	11°22	29°58	26° 5	20°11	18°47	5°11	13°29	S 9
M10	3 16 59	17°37'30	9♍35	9°21	0♍3	19°55	7° 7	20° 8	11°26	29°57	26° 7	20°12	18°44	5°17	13°26	M10
T 11	3 20 55	18°37'40	24°32	10°35	1°18	20°36	7°15	20°10	11°30	29°56	26°10	20°R13	18°40	5°24	13°23	T 11
W12	3 24 52	19°37'51	9♌42	11°48	2°33	21°18	7°22	20°12	11°34	29°55	26°12	20°12	18°37	5°31	13°20	W12
T 13	3 28 49	20°38'04	24°55	12°59	3°48	22° 0	7°30	20°14	11°37	29°53	26°14	20° 9	18°34	5°37	13°17	T 13
F 14	3 32 45	21°38'19	10♌11	14° 8	5° 3	22°42	7°37	20°16	11°41	29°52	26°16	20° 5	18°31	5°44	13°14	F 14
S 15	3 36 42	22°38'36	24°53	15°14	6°19	23°24	7°44	20°18	11°45	29°51	26°19	20° 0	18°28	5°50	13°11	S 15
S 16	3 40 38	23°38'55	9♌20	16°18	7°34	24° 5	7°51	20°20	11°49	29°50	26°21	19°55	18°25	5°57	13° 8	S 16
M17	3 44 35	24°39'15	23°20	17°18	8°49	24°47	7°58	20°22	11°52	29°48	26°23	19°51	18°21	6° 4	13° 5	M17
T 18	3 48 31	25°39'38	6♌50	18°15	10° 4	25°29	8° 5	20°25	11°56	29°47	26°25	19°47	18°18	6°10	13° 2	T 18
W19	3 52 28	26°40'02	19°53	19° 9	11°19	26°12	8°12	20°27	12° 0	29°46	26°27	19°46	18°15	6°17	13° 0	W19
T 20	3 56 25	27°40'28	2♍31	19°58	12°34	26°54	8°18	20°30	12° 3	29°44	26°29	19°D46	18°12	6°24	12°57	T 20
F 21	4 0 21	28°40'56	14°50	20°42	13°50	27°36	8°25	20°33	12° 7	29°43	26°32	19°47	18° 9	6°30	12°54	F 21
S 22	4 4 18	29°41'26	26°53	21°20	15° 5	28°18	8°31	20°35	12°11	29°42	26°34	19°48	18° 6	6°37	12°51	S 22
S 23	4 8 14	0♌41'58	8♌46	21°53	16°20	29° 0	8°37	20°38	12°14	29°40	26°36	19°50	18° 2	6°44	12°48	S 23
M24	4 12 11	1°42'31	20°34	22°18	17°35	29°43	8°43	20°41	12°18	29°39	26°38	19°R51	17°59	6°50	12°45	M24
T 25	4 16 7	2°43'06	2♍20	22°36	18°51	0♌25	8°48	20°44	12°21	29°37	26°40	19°50	17°56	6°57	12°43	T 25
W26	4 20 4	3°43'43	14° 8	22°46	20° 6	1° 8	8°54	20°48	12°25	29°36	26°42	19°46	17°53	7° 4	12°40	W26
T 27	4 24 0	4°44'21	26° 1	22°R46	21°21	1°50	8°59	20°51	12°29	29°34	26°44	19°41	17°50	7°10	12°37	T 27
F 28	4 27 57	5°45'00	8♌0	22°37	22°36	2°33	9° 5	20°54	12°32	29°33	26°46	19°34	17°46	7°17	12°35	F 28
S 29	4 31 54	6°45'41	20° 7	22°17	23°52	3°15	9°10	20°58	12°36	29°31	26°48	19°25	17°43	7°24	12°32	S 29
S 30	4 35 50	7♌46'24	2♌23	21♌46	25♍7	3♌58	9♍15	21°≈ 1	12♍39	29♌30	26°50	19°Y16	17°Y40	7♍30	12°R29	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	14s22	26s 6	4s 4	21s25	1s57	5s56	1n33	15s51	0n 5	10n 7	0n50	16s 1	1s16	14s41	0n25	22n 8	1s17	5n32	16n35	7n56	7n31	14s12	14n32	1s31			
S 2	14 41	27 54	4 41	21 49	2 2	6 24	1 33	16 4	0 5	10 4	0 50	16 1	1 16	14 42	0 25	22 8	1 17	5 31	16 36	7 55	7 29	14 15	14 31	1 32			
M 3	14 59	28 23	5 5	22 13	2 7	6 52	1 33	16 16	0 4	10 1	0 50	16 1	1 16	14 43	0 25	22 8	1 17	5 31	16 36	7 53	7 28	14 18	14 30	1 32			
T 4	15 18	27 26	5 15	22 35	2 12	7 21	1 32	16 29	0 3	9 58	0 50	16 0	1 16	14 44	0 25	22 8	1 17	5 30	16 36	7 52	7 27	14 21	14 29	1 32			
W 5	15 36	25 4	5 10	22 56	2 17	7 49	1 32	16 41	0 3	9 55	0 51	16 0	1 16	14 45	0 25	22 8	1 17	5 29	16 36	7 52	7 26	14 24	14 28	1 32			
T 6	15 55	21 22	4 49	23 15	2 21	8 17	1 31	16 54	0 2	9 52	0 51	15 59	1 16	14 47	0 25	22 8	1 17	5 29	16 36	7 52	7 25	14 27	14 27	1 32			
F 7	16 12	16 29	4 13	23 34	2 25	8 44	1 30	17 6	0 2	9 50	0 51	15 59	1 16	14 48	0 25	22 8	1 17	5 28	16 36	7 52	7 23	14 30	14 26	1 32			
S 8	16 30	10 37	3 20	23 51	2 28	9 12	1 30	17 18	0 1	9 47	0 51	15 58	1 16	14 49	0 25	22 8	1 17	5 27	16 36	7 52	7 22	14 33	14 25	1 32			
S 9	16 47	4 3	2 14	24 7	2 32	9 39	1 29	17 30	0 1	9 44	0 51	15 58	1 16	14 50	0 25	22 8	1 17	5 27	16 37	7 53	7 21	14 36	14 24	1 32			
M10	17 4	2n54	0 58	24 22	2 35	10 6	1 28	17 42	0s 0	9 41	0 52	15 57	1 16	14 51	0 25	22 8	1 17	5 26	16 37	7 53	7 20	14 39	14 23	1 32			
T 11	17 21	9 52	0n24	24 36	2 37	10 33	1 27	17 54	0 1	9 39	0 52	15 57	1 16	14 52	0 25	22 8	1 17	5 26	16 37	7 53	7 19	14 42	14 22	1 32			
W12	17 37	16 22	1 45	24 48	2 39	11 0	1 26	18 5	0 1	9 36	0 52	15 56	1 16	14 54	0 25	22 8	1 17	5 25	16 37	7 53	7 17	14 45	14 21	1 32			
T 13	17 53	21 52	2 59	24 59	2 41	11 26	1 25	18 17	0 2	9 33	0 52	15 55	1 16	14 55	0 25	22 8	1 17	5 24	16 37	7 52	7 16	14 48	14 20	1 32			
F 14	18 9	25 53	4 0	25 9	2 42	11 53	1 24	18 28	0 2	9 31	0 52	15 55	1 16	14 56	0 25	22 8	1 17	5 24	16 38	7 50	7 15	14 51	14 19	1 33			
S 15	18 25	28 1	4 43	25 17	2 42	12 18	1 23	18 39	0 3	9 28	0 53	15 54	1 16	14 57	0 25	22 8	1 17	5 23	16 38	7 49	7 14	14 54	14 18	1 33			
S 16	18 40	28 11	5 7	25 23	2 42	12 44	1 21	18 50	0 4	9 26	0 53	15 53	1 15	14 58	0 25	22 8	1 17	5 23	16 38	7 47	7 13	14 57	14 17	1 33			
M17	18 55	26 31	5 12	25 28	2 41	13 9	1 20	19 1	0 4	9 24	0 53	15 52	1 15	14 59	0 25	22 8	1 17	5 22	16 38	7 45	7 11	15 0	14 17	1 33			
T 18	19 9	23 21	4 59	25 32	2 39	13 34	1 19	19 11	0 5	9 21	0 53	15 52	1 15	15 0	0 25	22 8	1 17	5 22	16 39	7 44	7 10	15 3	14 16	1 33			
W19	19 23	19 6	4 30	25 34	2 37	13 59	1 17	19 22	0 5	9 19	0 54	15 51	1 15	15 2	0 25	22 8	1 17	5 21	16 39	7 43	7 9	15 6	14 15	1 33			
T 20	19 37	14 8	3 50	25 35	2 33	14 23	1 16	19 32	0 6	9 17	0 54	15 50	1 15	15 3	0 25	22 8	1 17	5 21	16 39	7 43	7 8	15 9	14 14	1 33			
F 21	19 51	8 43	2 59	25 34	2 29	14 47	1 14	19 43	0 7	9 15	0 54	15 49	1 15	15 4	0 25	22 8	1 17	5 20	16 40	7 44	7 6	15 12	14 13	1 33			
S 22	20 4	3 6	2 2	25 31	2 23	15 11	1 13	19 53	0 7	9 12	0 54	15 48	1 15	15 5	0 25	22 8	1 17	5 20	16 40	7 44	7 5	15 15	14 12	1 33			
S 23	20 16	2s33	1 0	25 26	2 17	15 34	1 11	20 2	0 8	9 10	0 54	15 47	1 15	15 6	0 25	22 8	1 17	5 20	16 40	7 45	7 4	15 18	14 11	1 33			
M24	20 29	8 5	0s 4	25 20	2 9	15 57	1 9	20 12	0 8	9 8	0 55	15 46	1 15	15 7	0 25	22 7	1 17	5 19	16 40	7 45	7 3	15 21	14 10	1 33			
T 25	20 41	13 19	1 7	25 12	2 0	16 19	1 8	20 22	0 9	9 6	0 55	15 45	1 15	15 8	0 25	22 7	1 17	5 19	16 41	7 45	7 2	15 24	14 9	1 33			
W26	20 52	18 6	2 8	25 2	1 50	16 41	1 6	20 31	0 10	9 5	0 55	15 44	1 15	15 9	0 25	22 7	1 17	5 18	16 41	7 44	7 0	15 27	14 8	1 33			
T 27	21 4	22 12	3 3	24 51	1 38	17 3	1 4	20 40	0 10	9 3	0 55	15 43	1 15	15 10	0 25	22 7	1 17	5 18	16 41	7 42	6 59	15 30	14 8	1 33			
F 28	21 14	25 24	3 50	24 37	1 24	17 24	1 2	20 49	0 11	9 1	0 56	15 42	1 15	15 11	0 25	22 7	1 17	5 18	16 42	7 39	6 58	15 33	14 7	1 33			
S 29	21 25	27 30	4 28	24 21	1 10	17 44	1 0	20 58	0 11	8 59	0 56	15 40	1 15	15 13	0 25	22 7	1 17	5 17	16 42	7 35	6 57	15 36	14 6	1 33			
S 30	21s35	28s17	4s54	24s 3	0s53	18s 5	0n59	21s 7	0s12	8n58	0n56	15s39	1s15	15s14	0n25	22n 7	1s17	5n17	16n43	7n32	6n56	15s39	14n 5	1s33			

ASTRODIENST EPHEMERIS for the year 2228
geocentric

DECEMBER 2228

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 39 47	8°47'07	14°35'50	21°R 5	26°M 23	4°A 40	9°M 19	21°A 5	12°M 43	29°R 28	26°A 52	19°R 6	17°Y 37	7°M 37	12°R 27	M 1
T 2	4 43 43	9°47'52	27°27	20°A 13	27°38	5°23	9°24	21° 9	12°46	29°II 27	26°54	18°Y 58	17°34	7°44	12°B 24	T 2
W 3	4 47 40	10°48'38	10°A 17	19°11	28°53	6° 6	9°28	21°12	12°50	29°25	26°55	18°52	17°31	7°50	12°22	W 3
T 4	4 51 36	11°49'25	23°22	18° 1	0°A 9	6°49	9°33	21°16	12°53	29°23	26°57	18°47	17°27	7°57	12°19	T 4
F 5	4 55 33	12°50'12	6°H 43	16°44	1°24	7°32	9°37	21°20	12°56	29°22	26°59	18°46	17°24	8° 4	12°17	F 5
S 6	4 59 29	13°51'01	20°21	15°23	2°39	8°15	9°40	21°24	13° 0	29°20	27° 1	18°D 46	17°21	8°10	12°14	S 6
S 7	5 3 26	14°51'50	4°Y 19	14° 0	3°55	8°58	9°44	21°28	13° 3	29°19	27° 3	18°47	17°18	8°17	12°12	S 7
M 8	5 7 23	15°52'40	18°37	12°38	5°10	9°41	9°48	21°33	13° 7	29°17	27° 5	18°R 47	17°15	8°24	12° 9	M 8
T 9	5 11 19	16°53'31	3°B 13	11°20	6°26	10°24	9°51	21°37	13°10	29°15	27° 6	18°46	17°12	8°30	12° 7	T 9
W10	5 15 16	17°54'23	18° 4	10° 9	7°41	11° 7	9°54	21°41	13°13	29°14	27° 8	18°43	17° 8	8°37	12° 5	W10
T 11	5 19 12	18°55'15	3°II 2	9° 6	8°57	11°50	9°57	21°46	13°16	29°12	27°10	18°37	17° 5	8°43	12° 3	T 11
F 12	5 23 9	19°56'09	18° 0	8°13	10°12	12°33	10° 0	21°50	13°20	29°10	27°11	18°29	17° 2	8°50	12° 0	F 12
S 13	5 27 5	20°57'04	2°B 48	7°31	11°27	13°16	10° 3	21°55	13°23	29° 9	27°13	18°19	16°59	8°57	11°58	S 13
S 14	5 31 2	21°57'59	17°17	7° 0	12°43	14° 0	10° 5	22° 0	13°26	29° 7	27°15	18° 9	16°56	9° 3	11°56	S 14
M15	5 34 58	22°58'56	1°A 22	6°41	13°58	14°43	10° 7	22° 4	13°29	29° 5	27°16	17°59	16°52	9°10	11°54	M15
T 16	5 38 55	23°59'54	14°59	6°D 32	15°14	15°26	10° 9	22° 9	13°32	29° 4	27°18	17°51	16°49	9°17	11°52	T 16
W17	5 42 52	25° 0'52	28° 8	6°34	16°29	16°10	10°11	22°14	13°35	29° 2	27°19	17°45	16°46	9°23	11°50	W17
T 18	5 46 48	26° 1'52	10°M 51	6°45	17°45	16°53	10°13	22°19	13°38	29° 0	27°21	17°42	16°43	9°30	11°48	T 18
F 19	5 50 45	27° 2'52	23°12	7° 6	19° 0	17°37	10°14	22°24	13°41	28°58	27°22	17°D 40	16°40	9°37	11°46	F 19
S 20	5 54 41	28° 3'54	5°A 16	7°34	20°16	18°20	10°16	22°29	13°44	28°57	27°24	17°41	16°37	9°43	11°44	S 20
S 21	5 58 38	29° 4'57	17° 9	8°10	21°31	19° 4	10°17	22°34	13°47	28°55	27°25	17°R 41	16°33	9°50	11°43	S 21
M22	6 2 34	0°B 6'00	28°56	8°51	22°47	19°48	10°18	22°40	13°50	28°53	27°26	17°40	16°30	9°57	11°41	M22
T 23	6 6 31	1° 7'05	10°M 43	9°39	24° 2	20°32	10°18	22°45	13°53	28°52	27°28	17°38	16°27	10° 3	11°39	T 23
W24	6 10 27	2° 8'10	22°34	10°32	25°18	21°15	10°19	22°50	13°56	28°50	27°29	17°33	16°24	10°10	11°37	W24
T 25	6 14 24	3° 9'16	4°A 32	11°29	26°33	21°59	10°19	22°56	13°59	28°48	27°30	17°25	16°21	10°17	11°36	T 25
F 26	6 18 21	4°10'22	16°40	12°30	27°49	22°43	10°R 19	23° 1	14° 1	28°47	27°32	17°14	16°18	10°23	11°34	F 26
S 27	6 22 17	5°11'29	29° 0	13°35	29° 4	23°27	10°19	23° 7	14° 4	28°45	27°33	17° 1	16°14	10°30	11°33	S 27
S 28	6 26 14	6°12'37	11°B 33	14°42	0°B 20	24°11	10°19	23°13	14° 7	28°43	27°34	16°47	16°11	10°37	11°31	S 28
M29	6 30 10	7°13'45	24°18	15°52	1°35	24°55	10°19	23°18	14° 9	28°41	27°35	16°33	16° 8	10°43	11°30	M29
T 30	6 34 7	8°14'53	7°A 15	17° 5	2°51	25°39	10°18	23°24	14°12	28°40	27°36	16°20	16° 5	10°50	11°29	T 30
W31	6 38 3	9°B 16'02	20°A 23	18°A 19	4°B 6	26°A 23	10°M 17	23°A 30	14°M 15	28°II 38	27°A 37	16°Y 10	16°Y 2	10°M 57	11°B 27	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	21s44	27s39	5s 6	23s42	0s36	18s24	0n57	21s15	0s13	8n56	0n56	15s38	1s15	15s15	0n25	22n 7
T 2	21 54	25 36	5 3	23 20	0 17	18 43	0 55	21 24	0 13	8 55	0 57	15 37	1 15	15 16	0 25	22 7
W 3	22 2	22 13	4 46	22 55	0n 3	19 2	0 53	21 32	0 14	8 53	0 57	15 36	1 15	15 17	0 25	22 7
T 4	22 11	17 42	4 13	22 29	0 23	19 20	0 50	21 40	0 14	8 52	0 57	15 34	1 15	15 18	0 25	22 7
F 5	22 19	12 14	3 26	22 1	0 44	19 38	0 48	21 47	0 15	8 51	0 57	15 33	1 14	15 19	0 25	22 7
S 6	22 26	6 4	2 26	21 33	1 4	19 55	0 46	21 55	0 16	8 49	0 58	15 32	1 14	15 20	0 25	22 7
S 7	22 33	0n32	1 17	21 5	1 23	20 11	0 44	22 2	0 16	8 48	0 58	15 30	1 14	15 21	0 25	22 7
M 8	22 40	7 17	0 1	20 37	1 41	20 27	0 42	22 9	0 17	8 47	0 58	15 29	1 14	15 22	0 25	22 7
T 9	22 46	13 46	1n17	20 11	1 57	20 42	0 40	22 16	0 17	8 46	0 58	15 27	1 14	15 23	0 25	22 7
W10	22 52	19 35	2 30	19 47	2 11	20 57	0 37	22 23	0 18	8 45	0 59	15 26	1 14	15 24	0 25	22 7
T 11	22 57	24 14	3 33	19 26	2 23	21 11	0 35	22 29	0 19	8 44	0 59	15 24	1 14	15 25	0 25	22 7
F 12	23 2	27 13	4 22	19 9	2 32	21 25	0 33	22 35	0 19	8 43	0 59	15 23	1 14	15 26	0 25	22 7
S 13	23 6	28 15	4 53	18 55	2 40	21 38	0 30	22 42	0 20	8 43	0 59	15 21	1 14	15 27	0 25	22 7
S 14	23 10	27 19	5 3	18 45	2 45	21 50	0 28	22 47	0 20	8 42	1 0	15 20	1 14	15 28	0 25	22 7
M15	23 14	24 38	4 55	18 38	2 48	22 1	0 26	22 53	0 21	8 41	1 0	15 18	1 14	15 29	0 25	22 7
T 16	23 17	20 38	4 31	18 36	2 49	22 12	0 23	22 58	0 22	8 41	1 0	15 17	1 14	15 29	0 25	22 7
W17	23 19	15 44	3 52	18 36	2 49	22 23	0 21	23 4	0 22	8 40	1 1	15 15	1 14	15 30	0 25	22 7
T 18	23 21	10 19	3 3	18 40	2 47	22 32	0 19	23 9	0 23	8 40	1 1	15 13	1 14	15 31	0 25	22 7
F 19	23 23	4 38	2 7	18 46	2 44	22 41	0 16	23 13	0 23	8 40	1 1	15 12	1 14	15 32	0 25	22 7
S 20	23 24	1s 5	1 6	18 55	2 40	22 49	0 14	23 18	0 24	8 40	1 1	15 10	1 14	15 33	0 25	22 7
S 21	23 25	6 41	0 3	19 5	2 35	22 57	0 11	23 22	0 25	8 39	1 2	15 8	1 14	15 34	0 25	22 7
M22	23 25	12 1	1s 0	19 18	2 29	23 4	0 9	23 26	0 25	8 39	1 2	15 6	1 14	15 35	0 25	22 7
T 23	23 24	16 55	1 59	19 31	2 23	23 10	0 7	23 30	0 26	8 39	1 2	15 5	1 14	15 36	0 25	22 7
W24	23 24	21 11	2 54	19 45	2 16	23 16	0 4	23 34	0 26	8 39	1 2	15 3	1 14	15 36	0 25	22 7
T 25	23 22	24 39	3 41	20 0	2 9	23 20	0 2	23 37	0 27	8 39	1 3	15 1	1 14	15 37	0 25	22 7
F 26	23 21	27 3	4 19	20 16	2 2	23 24	0s 1	23 40	0 28	8 40	1 3	14 59	1 14	15 38	0 25	22 7
S 27	23 19	28 10	4 46	20 31	1 54	23 28	0 3	23 43	0 28	8 40	1 3	14 57	1 14	15 39	0 25	22 7
S 28	23 16	27 52	4 59	20 47	1 46	23 30	0 6	23 46	0 29	8 40	1 3	14 56	1 14	15 40	0 25	22 7
M29	23 13	26 6	4 57	21 3	1 38	23 32	0 8	23 48	0 29	8 41	1 4	14 54	1 14	15 40	0 25	22 7
T 30	23 9	22 57	4 41	21 18	1 29	23 33	0 10	23 50	0 30	8 41	1 4	14 52	1 14	15 41	0 25	22 7
W31	23s 5	18s36	4s 9	21s33	1n21	23s34	0s13	23s52	0s30	8n42	1n 4	14s50	1s14	15s42	0n25	22n 7

Julian Day Number = 2535154.5, Delta T = 194.06 sec
Ecliptic obliquity = 23°24'42, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°56'22, Lahiri = 27°03'23