



Astrodienst Ephemeris Tables for the year 2179

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 2179
geocentric

JANUARY 2179

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 42 27	10°25'39	14°48	18°18	27°49	1°45	7°R18	16°R52	29°16	5°54	23°R33	23°D51	23°1	16°42	8°R15	F 1
S 2	6 46 23	11°26'48	28°44	19°55	28°59	2° 8	7°II12	16°II48	29°17	5°56	23°31	23°52	22°58	16°48	8°14	S 2
S 3	6 50 20	12°27'57	12°27	21°32	0°10	2°31	7° 7	16°44	29°19	5°57	23°30	23°53	22°55	16°55	8°13	S 3
M 4	6 54 17	13°29'07	25°58	23°10	1°21	2°55	7° 1	16°40	29°20	5°59	23°29	23°55	22°52	17° 2	8°12	M 4
T 5	6 58 13	14°30'16	9°16	24°47	2°32	3°19	6°56	16°36	29°21	6° 0	23°28	23°56	22°48	17° 9	8°11	T 5
W 6	7 2 10	15°31'27	22°21	26°25	3°43	3°43	6°51	16°32	29°23	6° 2	23°26	23°R57	22°45	17°15	8°11	W 6
T 7	7 6 6	16°32'37	5°14	28° 2	4°55	4° 8	6°47	16°28	29°24	6° 3	23°25	23°56	22°42	17°22	8°10	T 7
F 8	7 10 3	17°33'47	17°55	29°40	6° 6	4°33	6°42	16°24	29°26	6° 5	23°24	23°54	22°39	17°29	8° 9	F 8
S 9	7 13 59	18°34'58	0°24	1°17	7°17	4°58	6°38	16°20	29°27	6° 7	23°23	23°51	22°36	17°35	8° 9	S 9
S 10	7 17 56	19°36'08	12°42	2°54	8°29	5°24	6°34	16°16	29°29	6° 8	23°21	23°47	22°33	17°42	8° 8	S 10
M 11	7 21 53	20°37'17	24°49	4°30	9°40	5°50	6°30	16°13	29°31	6°10	23°20	23°42	22°29	17°49	8° 8	M 11
T 12	7 25 49	21°38'27	6°49	6° 6	10°52	6°16	6°26	16° 9	29°32	6°12	23°19	23°37	22°26	17°56	8° 8	T 12
W 13	7 29 46	22°39'36	18°42	7°41	12° 4	6°42	6°22	16° 6	29°34	6°14	23°17	23°33	22°23	18° 2	8° 7	W 13
T 14	7 33 42	23°40'44	0°34	9°15	13°16	7° 9	6°19	16° 2	29°36	6°15	23°16	23°29	22°20	18° 9	8° 7	T 14
F 15	7 37 39	24°41'52	12°26	10°48	14°28	7°36	6°16	15°59	29°38	6°17	23°15	23°27	22°17	18°16	8° 7	F 15
S 16	7 41 35	25°43'00	24°26	12°19	15°39	8° 3	6°13	15°56	29°40	6°19	23°13	23°D26	22°13	18°23	8° 7	S 16
S 17	7 45 32	26°44'06	6°36	13°48	16°52	8°30	6°10	15°53	29°41	6°21	23°12	23°26	22°10	18°29	8° 7	S 17
M 18	7 49 28	27°45'13	19° 1	15°14	18° 4	8°58	6° 7	15°50	29°43	6°23	23°11	23°28	22° 7	18°36	8°D 7	M 18
T 19	7 53 25	28°46'18	1°48	16°38	19°16	9°26	6° 5	15°47	29°45	6°25	23°10	23°30	22° 4	18°43	8° 7	T 19
W 20	7 57 22	29°47'23	14°58	17°58	20°28	9°54	6° 3	15°44	29°47	6°26	23° 8	23°31	22° 1	18°49	8° 7	W 20
T 21	8 1 18	0°48'27	28°35	19°14	21°40	10°23	6° 1	15°41	29°50	6°28	23° 7	23°R31	21°58	18°56	8° 7	T 21
F 22	8 5 15	1°49'30	12°38	20°25	22°53	10°51	5°59	15°39	29°52	6°30	23° 6	23°30	21°54	19° 3	8° 7	F 22
S 23	8 9 11	2°50'33	27° 4	21°31	24° 5	11°20	5°57	15°36	29°54	6°32	23° 5	23°26	21°51	19°10	8° 8	S 23
S 24	8 13 8	3°51'35	11°50	22°30	25°18	11°49	5°56	15°34	29°56	6°34	23° 3	23°21	21°48	19°16	8° 8	S 24
M 25	8 17 4	4°52'37	26°45	23°23	26°30	12°18	5°55	15°31	29°58	6°36	23° 2	23°15	21°45	19°23	8° 8	M 25
T 26	8 21 1	5°53'37	11°43	24° 7	27°43	12°47	5°54	15°29	0°Y 1	6°38	23° 1	23° 8	21°42	19°30	8° 9	T 26
W 27	8 24 57	6°54'37	26°33	24°42	28°55	13°17	5°53	15°27	0° 3	6°40	23° 0	23° 2	21°38	19°37	8° 9	W 27
T 28	8 28 54	7°55'37	11°9	25° 8	0°8	13°47	5°53	15°25	0° 5	6°42	22°58	22°57	21°35	19°43	8°10	T 28
F 29	8 32 51	8°56'36	25°26	25°23	1°21	14°17	5°52	15°23	0° 8	6°44	22°57	22°54	21°32	19°50	8°11	F 29
S 30	8 36 47	9°57'35	9°22	25°R27	2°34	14°47	5°D52	15°21	0°10	6°46	22°56	22°D53	21°29	19°57	8°11	S 30
S 31	8 40 44	10°58'33	22°57	25°20	3°46	15°17	5°II52	15°II19	0°Y13	6°49	22°55	22°54	21°26	20°43	8°12	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	23s 0	10s22	4s55	24s16	2s 7	17s15	2n27	13n 2	1n 2	20n46	0s45	21n10	1s37	0s58	0s44	9s59
S 2	22 55	15 3	4 19	24 4	2 8	17 32	2 26	13 11	1 3	20 45	0 45	21 9	1 37	0 57	0 44	9 58
S 3	22 50	18 53	3 29	23 49	2 9	17 48	2 25	13 21	1 4	20 44	0 45	21 9	1 37	0 57	0 44	9 58
M 4	22 44	21 38	2 28	23 34	2 10	18 4	2 24	13 30	1 5	20 44	0 45	21 9	1 36	0 56	0 44	9 57
T 5	22 38	23 8	1 20	23 16	2 9	18 19	2 22	13 39	1 6	20 43	0 44	21 9	1 36	0 56	0 44	9 57
W 6	22 31	23 20	0 9	22 58	2 9	18 34	2 21	13 48	1 7	20 43	0 44	21 9	1 36	0 55	0 44	9 56
T 7	22 24	22 17	1n 2	22 37	2 8	18 49	2 19	13 57	1 8	20 42	0 44	21 8	1 36	0 54	0 44	9 55
F 8	22 16	20 6	2 8	22 15	2 6	19 3	2 17	14 7	1 9	20 41	0 44	21 8	1 36	0 54	0 44	9 55
S 9	22 8	17 0	3 7	21 52	2 4	19 17	2 15	14 16	1 10	20 41	0 43	21 8	1 35	0 53	0 44	9 54
S 10	21 59	13 12	3 56	21 28	2 1	19 30	2 14	14 26	1 11	20 40	0 43	21 8	1 35	0 52	0 44	9 54
M 11	21 50	8 55	4 34	21 1	1 58	19 43	2 12	14 35	1 12	20 40	0 43	21 8	1 35	0 52	0 44	9 53
T 12	21 41	4 22	4 59	20 34	1 54	19 55	2 10	14 44	1 13	20 40	0 43	21 7	1 35	0 51	0 44	9 52
W 13	21 31	0n19	5 11	20 5	1 49	20 7	2 7	14 54	1 14	20 39	0 42	21 7	1 35	0 50	0 44	9 52
T 14	21 21	4 58	5 10	19 35	1 44	20 18	2 5	15 4	1 15	20 39	0 42	21 7	1 34	0 50	0 44	9 51
F 15	21 10	9 27	4 56	19 4	1 38	20 29	2 3	15 13	1 15	20 39	0 42	21 7	1 34	0 49	0 44	9 50
S 16	20 59	13 37	4 28	18 32	1 31	20 39	2 1	15 23	1 16	20 38	0 42	21 7	1 34	0 48	0 43	9 50
S 17	20 47	17 18	3 48	18 0	1 23	20 48	1 58	15 32	1 17	20 38	0 42	21 7	1 34	0 47	0 43	9 49
M 18	20 35	20 18	2 57	17 26	1 14	20 57	1 56	15 42	1 17	20 38	0 41	21 7	1 34	0 46	0 43	9 48
T 19	20 23	22 23	1 56	16 52	1 5	21 6	1 53	15 51	1 18	20 38	0 41	21 7	1 33	0 46	0 43	9 48
W 20	20 10	23 20	0 46	16 18	0 54	21 14	1 51	16 1	1 19	20 38	0 41	21 6	1 33	0 45	0 43	9 47
T 21	19 57	22 57	0s28	15 43	0 43	21 21	1 48	16 11	1 19	20 37	0 41	21 6	1 33	0 44	0 43	9 46
F 22	19 44	21 7	1 42	15 9	0 31	21 28	1 45	16 20	1 20	20 37	0 40	21 6	1 33	0 43	0 43	9 45
S 23	19 30	17 55	2 52	14 35	0 17	21 34	1 43	16 30	1 21	20 37	0 40	21 6	1 33	0 42	0 43	9 45
S 24	19 16	13 31	3 52	14 3	0 3	21 40	1 40	16 39	1 21	20 37	0 40	21 6	1 32	0 41	0 43	9 44
M 25	19 2	8 15	4 37	13 32	0n12	21 45	1 37	16 49	1 22	20 37	0 40	21 6	1 32	0 40	0 43	9 43
T 26	18 47	2 30	5 3	13 2	0 28	21 49	1 34	16 58	1 22	20 37	0 39	21 6	1 32	0 39	0 43	9 42
W 27	18 32	3s21	5 8	12 35	0 44	21 53	1 31	17 8	1 23	20 38	0 39	21 6	1 32	0 38	0 43	9 42
T 28	18 16	8 54	4 53	12 10	1 1	21 56	1 28	17 17	1 23	20 38	0 39	21 6	1 31	0 37	0 43	9 41
F 29	18 0	13 52	4 21	11 49	1 19	21 59	1 26	17 27	1 24	20 38	0 39	21 6	1 31	0 36	0 43	9 40
S 30	17 44	17 58	3 33	11 30	1 36	22 1	1 23	17 36	1 24	20 38	0 38	21 6	1 31	0 35	0 43	9 39
S 31	17s28	20s59	2s34	11s16	1n54	22s 2	1n19	17n45	1n25	20n38	0s38	21n 6	1s31	0s34	0s43	9s39

Julian Day Number = 2516923.5, Delta T = 143.85 sec
Ecliptic obliquity = 23°24'56, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°14'30, Lahiri = 26°21'30

ASTRODIENST EPHEMERIS for the year 2179

geocentric

MARCH 2179

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 35 4	10♈18'01	16♉9	13♊41	9♋12	0♌52	7♍20	15♎18	1♏37	7♐53	22°R25	20°R23	19♑54	23♒18	8♓59	M 1
T 2	10 39 0	11°18'19	29° 2	14°30	10°26	1°26	7°25	15°19	1°41	7°55	22☉24	20♑23	19°50	23°25	9° 2	T 2
W 3	10 42 57	12°18'36	11♊37	15°21	11°40	2° 0	7°31	15°21	1°44	7°58	22°23	20°21	19°47	23°32	9° 4	W 3
T 4	10 46 53	13°18'51	23°58	16°16	12°53	2°34	7°37	15°23	1°47	8° 0	22°22	20°17	19°44	23°39	9° 7	T 4
F 5	10 50 50	14°19'05	6♋9	17°14	14° 7	3° 8	7°44	15°25	1°50	8° 2	22°22	20°10	19°41	23°45	9° 9	F 5
S 6	10 54 47	15°19'17	18°12	18°15	15°21	3°42	7°50	15°27	1°54	8° 4	22°21	20° 1	19°38	23°52	9°12	S 6
S 7	10 58 43	16°19'28	0♈10	19°18	16°34	4°16	7°57	15°29	1°57	8° 7	22°20	19°48	19°35	23°59	9°14	S 7
M 8	11 2 40	17°19'37	12° 5	20°23	17°48	4°50	8° 3	15°31	2° 0	8° 9	22°19	19°34	19°31	24° 5	9°17	M 8
T 9	11 6 36	18°19'44	23°57	21°31	19° 2	5°25	8°10	15°34	2° 4	8°11	22°19	19°19	19°28	24°12	9°20	T 9
W10	11 10 33	19°19'49	5♏49	22°41	20°16	5°59	8°17	15°36	2° 7	8°13	22°18	19° 4	19°25	24°19	9°23	W10
T 11	11 14 29	20°19'52	17°41	23°53	21°29	6°33	8°25	15°39	2°10	8°16	22°18	18°51	19°22	24°26	9°25	T 11
F 12	11 18 26	21°19'53	29°36	25° 6	22°43	7° 8	8°32	15°42	2°14	8°18	22°17	18°41	19°19	24°32	9°28	F 12
S 13	11 22 22	22°19'52	11♊36	26°22	23°57	7°42	8°39	15°44	2°17	8°20	22°16	18°33	19°16	24°39	9°31	S 13
S 14	11 26 19	23°19'49	23°44	27°39	25°11	8°17	8°47	15°47	2°21	8°22	22°16	18°29	19°12	24°46	9°34	S 14
M15	11 30 15	24°19'44	6♊4	28°58	26°24	8°52	8°55	15°50	2°24	8°25	22°15	18°27	19° 9	24°53	9°37	M15
T 16	11 34 12	25°19'37	18°40	0♈19	27°38	9°26	9° 3	15°53	2°27	8°27	22°15	18°27	19° 6	24°59	9°40	T 16
W17	11 38 9	26°19'28	1♊38	1°41	28°52	10° 1	9°11	15°57	2°31	8°29	22°14	18°27	19° 3	25° 6	9°43	W17
T 18	11 42 5	27°19'16	15° 0	3° 4	0♈6	10°36	9°19	16° 0	2°34	8°31	22°14	18°26	19° 0	25°13	9°46	T 18
F 19	11 46 2	28°19'02	28°52	4°29	1°19	11°11	9°27	16° 3	2°38	8°33	22°14	18°23	18°56	25°19	9°49	F 19
S 20	11 49 58	29°18'46	13♊12	5°56	2°33	11°46	9°36	16° 7	2°41	8°36	22°13	18°17	18°53	25°26	9°52	S 20
S 21	11 53 55	0♏18'27	28° 0	7°24	3°47	12°20	9°44	16°10	2°45	8°38	22°13	18° 9	18°50	25°33	9°56	S 21
M22	11 57 51	1°18'07	13♏8	8°53	5° 1	12°55	9°53	16°14	2°48	8°40	22°12	17°59	18°47	25°40	9°59	M22
T 23	12 1 48	2°17'44	28°28	10°23	6°14	13°30	10° 2	16°18	2°51	8°42	22°12	17°49	18°44	25°46	10° 2	T 23
W24	12 5 44	3°17'19	13♊49	11°55	7°28	14° 6	10°11	16°22	2°55	8°44	22°12	17°38	18°41	25°53	10° 5	W24
T 25	12 9 41	4°16'52	28°57	13°29	8°42	14°41	10°20	16°26	2°58	8°46	22°11	17°29	18°37	26° 0	10° 9	T 25
F 26	12 13 38	5°16'24	13♊45	15° 3	9°56	15°16	10°29	16°30	3° 2	8°48	22°11	17°23	18°34	26° 6	10°12	F 26
S 27	12 17 34	6°15'54	28° 6	16°39	11°10	15°51	10°39	16°34	3° 5	8°50	22°11	17°19	18°31	26°13	10°15	S 27
S 28	12 21 31	7°15'22	11♊57	18°16	12°23	16°26	10°48	16°38	3° 9	8°52	22°11	17°D18	18°28	26°20	10°19	S 28
M29	12 25 27	8°14'48	25°19	19°55	13°37	17° 1	10°58	16°43	3°12	8°55	22°11	17°18	18°25	26°27	10°22	M29
T 30	12 29 24	9°14'12	8♊16	21°35	14°51	17°37	11° 7	16°47	3°15	8°57	22°10	17°R18	18°21	26°33	10°25	T 30
W31	12 33 20	10°Y13'35	20♊51	23♊16	16♋5	18♌12	11♍17	16♎51	3°Y19	8♏59	22☉10	17♑18	18♒18	26♓40	10♓29	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	7s42	23s 4	0s22	16s17	0n26	18s 7	0s12	21n49	1n33	21n 0	0s32	21n13	1s24	0s 0	0s42	9s15	0s42
T 2	7 19	22 39	0n46	16 14	0 15	17 50	0 15	21 57	1 33	21 1	0 31	21 13	1 24	0n 1	0 42	9 14	0 42
W 3	6 56	21 5	1 50	16 9	0 4	17 33	0 17	22 4	1 33	21 2	0 31	21 14	1 23	0 2	0 42	9 13	0 42
T 4	6 33	18 33	2 47	16 3	0s 6	17 15	0 20	22 10	1 33	21 3	0 31	21 14	1 23	0 4	0 42	9 12	0 42
F 5	6 10	15 13	3 36	15 55	0 16	16 57	0 23	22 17	1 33	21 4	0 31	21 15	1 23	0 5	0 42	9 11	0 42
S 6	5 47	11 19	4 15	15 46	0 26	16 38	0 26	22 24	1 33	21 5	0 31	21 15	1 23	0 6	0 42	9 11	0 42
S 7	5 23	7 0	4 42	15 35	0 36	16 19	0 29	22 30	1 33	21 7	0 30	21 16	1 22	0 8	0 42	9 10	0 42
M 8	5 0	2 27	4 57	15 23	0 45	15 59	0 31	22 37	1 33	21 8	0 30	21 16	1 22	0 9	0 42	9 9	0 42
T 9	4 37	2n10	4 58	15 10	0 53	15 39	0 34	22 43	1 33	21 9	0 30	21 17	1 22	0 10	0 42	9 8	0 42
W10	4 13	6 42	4 47	14 55	1 2	15 18	0 37	22 49	1 34	21 11	0 30	21 17	1 22	0 12	0 42	9 7	0 42
T 11	3 50	10 59	4 23	14 39	1 10	14 57	0 39	22 55	1 34	21 12	0 30	21 18	1 21	0 13	0 42	9 6	0 42
F 12	3 26	14 52	3 47	14 21	1 17	14 35	0 42	23 1	1 34	21 13	0 29	21 18	1 21	0 14	0 42	9 6	0 42
S 13	3 2	18 10	3 1	14 2	1 24	14 13	0 44	23 7	1 34	21 15	0 29	21 19	1 21	0 16	0 42	9 5	0 42
S 14	2 39	20 44	2 7	13 42	1 31	13 51	0 47	23 12	1 34	21 16	0 29	21 19	1 21	0 17	0 42	9 4	0 42
M15	2 15	22 22	1 5	13 20	1 37	13 28	0 49	23 18	1 34	21 17	0 29	21 20	1 20	0 19	0 42	9 3	0 42
T 16	1 51	22 55	0s 1	12 57	1 43	13 5	0 51	23 23	1 34	21 19	0 29	21 20	1 20	0 20	0 42	9 2	0 42
W17	1 28	22 05	1 9	12 33	1 48	12 42	0 54	23 29	1 34	21 20	0 28	21 21	1 20	0 21	0 42	9 2	0 42
T 18	1 4	20 20	2 16	12 8	1 53	12 18	0 56	23 34	1 34	21 22	0 28	21 21	1 20	0 23	0 42	9 1	0 42
F 19	0 40	17 10	3 16	11 41	1 58	11 54	0 58	23 39	1 34	21 23	0 28	21 22	1 20	0 24	0 42	9 0	0 42
S 20	0 16	12 53	4 7	11 13	2 2	11 29	1 0	23 43	1 34	21 25	0 28	21 23	1 19	0 25	0 42	8 59	0 42
S 21	0n 7	7 44	4 43	10 44	2 6	11 5	1 2	23 48	1 34	21 26	0 28	21 23	1 19	0 27	0 42	8 58	0 42
M22	0 31	2 0	5 0	10 14	2 9	10 39	1 4	23 53	1 34	21 27	0 28	21 24	1 19	0 28	0 42	8 58	0 42
T 23	0 55	3s55	4 56	9 42	2 12	10 14	1 6	23 57	1 34	21 29	0 27	21 24	1 19	0 29	0 42	8 57	0 42
W24	1 18	9 36	4 31	9 10	2 15	9 48	1 8	24 1	1 34	21 30	0 27	21 25	1 19	0 31	0 42	8 56	0 42
T 25	1 42	14 37	3 46	8 36	2 17	9 23	1 10	24 5	1 34	21 32	0 27	21 26	1 18	0 32	0 42	8 55	0 42
F 26	2 6	18 37	2 48	8 1	2 18	8 56	1 11	24 9	1 34	21 33	0 27	21 26	1 18	0 34	0 42	8 54	0 42
S 27	2 29	21 20	1 40	7 24	2 20	8 30	1 13	24 13	1 34	21 35	0 27	21 27	1 18	0 35	0 42	8 54	0 42
S 28	2 53	22 40	0 28	6 47	2 20	8 3	1 15	24 17	1 34	21 36	0 26	21 27	1 18	0 36	0 42	8 53	0 42
M29	3 16	22 37	0n43	6 9	2 20	7 36	1 16	24 20	1 33	21 38	0 26	21 28	1 17	0 38	0 42	8 52	0 42
T 30	3 39	21 21	1 49	5 29	2 20	7 9	1 18	24 23	1 33	21 39	0 26	21 29	1 17	0 39	0 42	8 51	0 42
W31	4n 3	19s 2	2n48	4s48	2s19	6s42	1s19	24n27	1n33	21n41	0s26	21n29	1s17	0n40	0s42	8s51	0s42

Julian Day Number = 2516982.5, Delta T = 143.99 sec
 Ecliptic obliquity = 23°24'56, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°14'38, Lahiri = 26°21'39

ASTRODIENST EPHEMERIS for the year 2179

geocentric

APRIL 2179

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 17	11°12'56	3 ³⁶ 9	24°59	17°19	18°48	11°27	16°56	3°22	9°1	22°R10	17°R15	18°15	26°47	10°32	T 1
F 2	12 41 13	12°12'15	15°16	26°43	18°32	19°23	11°37	17°1	3°26	9°3	22°10	17°11	18°12	26°54	10°36	F 2
S 3	12 45 10	13°11'33	27°14	28°28	19°46	19°58	11°47	17°5	3°29	9°5	22°10	17°3	18°9	27°0	10°39	S 3
S 4	12 49 7	14°10'48	9°17	0°15	21°0	20°34	11°58	17°10	3°32	9°7	22°10	16°53	18°6	27°7	10°43	S 4
M 5	12 53 3	15°10'02	20°58	2°3	22°14	21°9	12°8	17°15	3°36	9°8	22°D10	16°42	18°2	27°14	10°47	M 5
T 6	12 57 0	16°9'13	2°10	2°50	3°52	23°28	21°45	12°18	17°20	3°39	9°10	22°10	16°30	17°59	27°20	T 6
W 7	13 0 56	17°8'23	14°43	5°43	24°42	22°21	12°29	17°25	3°42	9°12	22°10	16°18	17°56	27°27	10°54	W 7
T 8	13 4 53	18°7'31	26°40	7°36	25°55	22°56	12°39	17°30	3°46	9°14	22°10	16°8	17°53	27°34	10°58	T 8
F 9	13 8 49	19°6'36	8°42	9°29	27°9	23°32	12°50	17°36	3°49	9°16	22°10	16°0	17°50	27°41	11°1	F 9
S 10	13 12 46	20°5'40	20°50	11°24	28°23	24°8	13°1	17°41	3°53	9°18	22°10	15°54	17°47	27°47	11°5	S 10
S 11	13 16 42	21°4'41	3°11	13°21	29°37	24°43	13°12	17°46	3°56	9°20	22°10	15°51	17°43	27°54	11°9	S 11
M12	13 20 39	22°3'40	15°34	15°19	0°15	25°19	13°23	17°52	3°59	9°22	22°11	15°D50	17°40	28°1	11°12	M12
T 13	13 24 35	23°2'37	28°16	17°18	2°4	25°55	13°34	17°57	4°2	9°23	22°11	15°51	17°37	28°7	11°16	T 13
W14	13 28 32	24°1'32	11°15	19°19	3°18	26°31	13°45	18°3	4°6	9°25	22°11	15°52	17°34	28°14	11°20	W14
T 15	13 32 29	25°0'25	24°34	21°21	4°32	27°6	13°57	18°9	4°9	9°27	22°11	15°R53	17°31	28°21	11°24	T 15
F 16	13 36 25	25°59'15	8°18	23°24	5°46	27°42	14°8	18°14	4°12	9°29	22°12	15°52	17°27	28°28	11°27	F 16
S 17	13 40 22	26°58'03	22°25	25°28	6°59	28°18	14°19	18°20	4°15	9°30	22°12	15°49	17°24	28°34	11°31	S 17
S 18	13 44 18	27°56'48	6°17	27°33	8°13	28°54	14°31	18°26	4°19	9°32	22°12	15°45	17°21	28°41	11°35	S 18
M19	13 48 15	28°55'32	21°48	29°39	9°27	29°30	14°43	18°32	4°22	9°34	22°12	15°39	17°18	28°48	11°39	M19
T 20	13 52 11	29°54'13	6°53	10°41	10°41	0°56	14°54	18°38	4°25	9°35	22°13	15°32	17°15	28°55	11°43	T 20
W21	13 56 8	0°52'52	22°1	3°53	11°54	0°42	15°6	18°44	4°28	9°37	22°13	15°25	17°12	29°1	11°47	W21
T 22	14 0 4	1°51'29	7°11	6°0	13°8	1°18	15°18	18°50	4°31	9°38	22°14	15°19	17°8	29°8	11°50	T 22
F 23	14 4 1	2°50'04	21°50	8°7	14°22	1°54	15°30	18°56	4°34	9°40	22°14	15°15	17°5	29°15	11°54	F 23
S 24	14 7 58	3°48'38	6°14	10°14	15°36	2°30	15°42	19°2	4°38	9°41	22°14	15°13	17°2	29°21	11°58	S 24
S 25	14 11 54	4°47'10	20°11	12°21	16°49	3°6	15°54	19°9	4°41	9°43	22°15	15°D13	16°59	29°28	12°2	S 25
M26	14 15 51	5°45'40	3°41	14°26	18°3	3°42	16°6	19°15	4°44	9°44	22°15	15°14	16°56	29°35	12°6	M26
T 27	14 19 47	6°44'08	16°45	16°31	19°17	4°18	16°18	19°22	4°47	9°46	22°16	15°16	16°53	29°42	12°10	T 27
W28	14 23 44	7°42'35	29°26	18°34	20°31	4°54	16°30	19°28	4°50	9°47	22°16	15°17	16°49	29°48	12°14	W28
T 29	14 27 40	8°41'00	11°48	20°35	21°44	5°30	16°43	19°35	4°53	9°49	22°17	15°R17	16°46	29°55	12°18	T 29
F 30	14 31 37	9°39'24	23°55	22°34	22°58	6°56	16°55	19°41	4°56	9°50	22°18	15°16	16°43	0°12	12°21	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	decl	lat	decl	lat
T 1	4n26	15s53	3n38	4s 7	2s18	6s14	1s20	24n30	1n33	21n42	0s26	21n30	1s17	0n42	0s42	8s50	0s42	21n50	0n15	22s48	22s54	3n24	13n46	1s16					
F 2	4 49	12 8	4 18	3 24	2 17	5 47	1 22	24 32	1 33	21 44	0 26	21 31	1 17	0 43	0 42	8 49	0 42	21 51	0 15	22 48	22 54	3 26	13 47	1 16					
S 3	5 12	7 57	4 45	2 40	2 14	5 19	1 23	24 35	1 33	21 45	0 25	21 31	1 16	0 44	0 42	8 49	0 42	21 51	0 15	22 47	22 53	3 29	13 48	1 16					
S 4	5 35	3 30	5 0	1 55	2 12	4 51	1 24	24 38	1 33	21 47	0 25	21 32	1 16	0 46	0 42	8 48	0 42	21 51	0 15	22 46	22 53	3 31	13 49	1 16					
M 5	5 58	1n 3	5 2	1 9	2 9	4 23	1 25	24 40	1 33	21 49	0 25	21 33	1 16	0 47	0 42	8 47	0 42	21 51	0 15	22 45	22 53	3 34	13 50	1 16					
T 6	6 21	5 34	4 51	0 22	2 5	3 55	1 26	24 42	1 33	21 50	0 25	21 33	1 16	0 48	0 42	8 46	0 42	21 51	0 15	22 44	22 52	3 36	13 51	1 16					
W 7	6 44	9 54	4 27	0n25	2 1	3 26	1 27	24 44	1 33	21 52	0 25	21 34	1 16	0 50	0 42	8 46	0 42	21 51	0 15	22 43	22 52	3 39	13 52	1 16					
T 8	7 6	13 52	3 51	1 14	1 56	2 58	1 28	24 46	1 33	21 53	0 25	21 35	1 15	0 51	0 42	8 45	0 42	21 51	0 15	22 42	22 52	3 41	13 54	1 16					
F 9	7 29	17 18	3 5	2 3	1 51	2 29	1 29	24 48	1 33	21 55	0 25	21 35	1 15	0 52	0 42	8 44	0 42	21 51	0 15	22 41	22 52	3 44	13 55	1 16					
S 10	7 51	20 2	2 10	2 53	1 45	2 0	1 29	24 50	1 33	21 56	0 24	21 36	1 15	0 54	0 42	8 44	0 42	21 51	0 16	22 40	22 51	3 46	13 56	1 16					
S 11	8 13	21 52	1 8	3 44	1 39	1 32	1 30	24 51	1 32	21 58	0 24	21 37	1 15	0 55	0 42	8 43	0 42	21 51	0 16	22 40	22 51	3 49	13 57	1 16					
M12	8 35	22 40	0 1	4 36	1 33	1 3	1 30	24 52	1 32	21 59	0 24	21 37	1 15	0 56	0 42	8 42	0 42	21 51	0 16	22 40	22 51	3 51	13 58	1 16					
T 13	8 57	22 18	1s 6	5 28	1 25	0 34	1 31	24 53	1 32	22 1	0 24	21 38	1 15	0 58	0 42	8 42	0 42	21 51	0 16	22 40	22 50	3 54	13 59	1 16					
W14	9 19	20 45	2 12	6 21	1 18	0 5	1 31	24 54	1 32	22 2	0 24	21 39	1 14	0 59	0 42	8 41	0 42	21 51	0 16	22 40	22 50	3 56	14 0	1 17					
T 15	9 40	18 1	3 13	7 14	1 10	0n24	1 32	24 55	1 32	22 4	0 24	21 39	1 14	1 0	0 42	8 40	0 42	21 51	0 16	22 40	22 50	3 59	14 1	1 17					
F 16	10 2	14 14	4 4	8 8	1 1	0 53	1 32	24 56	1 32	22 5	0 23	21 40	1 14	1 1	0 42	8 40	0 42	21 51	0 16	22 40	22 49	4 1	14 2	1 17					
S 17	10 23	9 34	4 43	9 2	0 52	1 21	1 32	24 56	1 32	22 7	0 23	21 41	1 14	1 3	0 42	8 39	0 42	21 51	0 16	22 40	22 49	4 4	14 3	1 17					
S 18	10 44	4 14	5 4	9 56	0 43	1 50	1 32	24 56	1 32	22 8	0 23	21 41	1 14	1 4	0 42	8 39	0 42	21 51	0 16	22 39	22 49	4 6	14 5	1 17					
M19	11 5	1s26	5 6	10 49	0 33	2 19	1 33	24 56	1 31	22 10	0 23	21 42	1 13	1 5	0 42	8 38	0 42	21 51	0 16	22 39	22 49	4 9	14 6	1 17					
T 20	11 26	7 7	4 47	11 43	0 23	2 48	1 33	24 56	1 31	22 11	0 23	21 43	1 13	1 6	0 42	8 37	0 42	21 51	0 16	22 38	22 48	4 11	14 7	1 17					
W21	11 46	12 24	4 8	12 36	0 13	3 17	1 33	24 56	1 31	22 12	0 23	21 43	1 13	1 8	0 42	8 37	0 43	21 51	0 16	22 37	22 48	4 14	14 8	1 17					
T 22	12 6	16 52	3 12	13 29	0 2	3 46	1 32	24 56	1 31	22 14	0 23	21 44	1 13	1 9	0 42	8 36	0 43	21 51	0 16	22 36	22 48	4 16	14 9	1 17					
F 23	12 27	20 11	2 3	14 20	0n 9	4 14	1 32	24 55	1 31	22 15	0 22	21 45	1 13	1 10	0 42	8 36	0 43	21 51	0 16	22 36	22 47	4 19	14 10	1 17					
S 24	12 47	22 7	0 49	15 11	0 20	4 43	1 32	24 54	1 31	22 17	0 22	21 45	1 13	1 11	0 42	8 35	0 43	21 51	0 16	22 36	22 47	4 21	14 11	1 17					
S 25	13 6	22 36	0n27	16 1	0 30	5 12	1 32	24 53	1 31	22 18	0 22	21 46	1 12	1 13	0 42	8 35	0 43	21 51	0 16	22 36	22 47	4 24	14 12	1 17					
M26	13 26	21 43	1 39	16 49	0 41	5 40	1 31	24 52	1 30	22 20	0 22	21 47	1 12	1 14	0 42	8 34	0 43	21 51	0 16	22 36	22 46	4 26	14 13	1 17					
T 27	13 45	19 40	2 43	17 35	0 52	6 8	1 31	24 51	1 30	22 21	0 22	21 47	1 12	1 15	0 42	8 34	0 43	21 51	0 17	22 36	22 46	4 29	14 15	1 17					
W28	14 4	16 42	3 37	18 20	1 2	6 36	1 30	24 50	1 30	22 22	0 22	21 48	1 12	1 16	0 42	8 33	0 43	21 51	0 17	22 36	22 46	4 31	14 16	1 17					
T 29	14 23	13 4	4 20	19 3	1 13	7 5	1 30	24 48	1 30	22 24	0 22	21 49	1 12	1 17	0 42	8 33	0 43	21 51	0 17	22 36	22 46	4 34	14 17	1 17					
F 30	14n41	8s58	4n50	19n43	1n22	7n32	1s29	24n46	1n30	22n25	0s21	21n49	1s12	1n18	0s42	8s32	0s43	21n51	0n17	22s36	22s45	4n36	14n18	1s18					

ASTRODIENST EPHEMERIS for the year 2179

geocentric

MAY 2179

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 33	10♂3746	5♂53	24♂30	24♀12	6♂43	17♂7	19♂48	4♀59	9♂51	22♂18	15°R13	16♂40	0♀8	12♂25	S 1
S 2	14 39 30	11°36'07	17°46	26°24	25°25	7°19	17°20	19°54	5° 2	9°53	22°19	15♂ 9	16°37	0°15	12°29	S 2
M 3	14 43 27	12°34'25	29°37	28°15	26°39	7°55	17°32	20° 1	5° 4	9°54	22°20	15° 4	16°33	0°22	12°33	M 3
T 4	14 47 23	13°32'43	11♀29	0♂ 3	27°53	8°31	17°45	20° 8	5° 7	9°55	22°20	14°58	16°30	0°29	12°37	T 4
W 5	14 51 20	14°30'58	23°27	1°48	29° 7	9° 7	17°58	20°15	5°10	9°56	22°21	14°53	16°27	0°35	12°41	W 5
T 6	14 55 16	15°29'12	5♂30	3°29	0♂20	9°44	18°10	20°22	5°13	9°58	22°22	14°48	16°24	0°42	12°45	T 6
F 7	14 59 13	16°27'25	17°42	5° 6	1°34	10°20	18°23	20°28	5°16	9°59	22°22	14°44	16°21	0°49	12°49	F 7
S 8	15 3 9	17°25'36	0♂ 4	6°40	2°48	10°56	18°36	20°35	5°19	10° 0	22°23	14°42	16°18	0°55	12°53	S 8
S 9	15 7 6	18°23'45	12°35	8°10	4° 1	11°33	18°49	20°42	5°21	10° 1	22°24	14°D41	16°14	1° 2	12°57	S 9
M10	15 11 2	19°21'52	25°19	9°35	5°15	12° 9	19° 2	20°49	5°24	10° 2	22°25	14°42	16°11	1° 9	13° 1	M10
T 11	15 14 59	20°19'57	8♂16	10°57	6°29	12°45	19°15	20°57	5°27	10° 3	22°26	14°43	16° 8	1°16	13° 4	T 11
W12	15 18 56	21°18'01	21°27	12°15	7°42	13°22	19°28	21° 4	5°29	10° 4	22°26	14°44	16° 5	1°22	13° 8	W12
T 13	15 22 52	22°16'03	4♂55	13°29	8°56	13°58	19°41	21°11	5°32	10° 5	22°27	14°46	16° 2	1°29	13°12	T 13
F 14	15 26 49	23°14'03	18°39	14°38	10°10	14°34	19°54	21°18	5°34	10° 6	22°28	14°R46	15°58	1°36	13°16	F 14
S 15	15 30 45	24°12'00	2♂40	15°43	11°23	15°11	20° 7	21°25	5°37	10° 7	22°29	14°46	15°55	1°42	13°20	S 15
S 16	15 34 42	25° 9'56	16°58	16°44	12°37	15°47	20°20	21°32	5°39	10° 8	22°30	14°45	15°52	1°49	13°24	S 16
M17	15 38 38	26° 7'51	1♂29	17°40	13°51	16°24	20°34	21°40	5°42	10° 9	22°31	14°43	15°49	1°56	13°28	M17
T 18	15 42 35	27° 5'43	16° 9	18°32	15° 4	17° 0	20°47	21°47	5°44	10°10	22°32	14°41	15°46	2° 3	13°32	T 18
W19	15 46 31	28° 3'34	0♂53	19°20	16°18	17°37	21° 0	21°54	5°47	10°11	22°33	14°39	15°43	2° 9	13°35	W19
T 20	15 50 28	29° 1'23	15°53	20° 2	17°32	18°13	21°13	22° 2	5°49	10°11	22°34	14°37	15°39	2°16	13°39	T 20
F 21	15 54 25	29°59'11	0♂ 3	20°40	18°45	18°49	21°27	22° 9	5°52	10°12	22°35	14°36	15°36	2°23	13°43	F 21
S 22	15 58 21	0♂56'57	14°16	21°14	19°59	19°26	21°40	22°17	5°54	10°13	22°36	14°D36	15°33	2°30	13°47	S 22
S 23	16 2 18	1°54'42	28° 9	21°42	21°13	20° 2	21°54	22°24	5°56	10°14	22°37	14°36	15°30	2°36	13°51	S 23
M24	16 6 14	2°52'26	11♂39	22° 6	22°26	20°39	22° 7	22°32	5°58	10°14	22°38	14°37	15°27	2°43	13°54	M24
T 25	16 10 11	3°50'09	24°45	22°25	23°40	21°16	22°21	22°39	6° 0	10°15	22°39	14°38	15°24	2°50	13°58	T 25
W26	16 14 7	4°47'50	7♂30	22°39	24°53	21°52	22°34	22°47	6° 3	10°15	22°40	14°39	15°20	2°56	14° 2	W26
T 27	16 18 4	5°45'31	19°55	22°49	26° 7	22°29	22°48	22°54	6° 5	10°16	22°42	14°40	15°17	3° 3	14° 6	T 27
F 28	16 22 0	6°43'10	2♂ 6	22°R53	27°21	23° 5	23° 1	23° 2	6° 7	10°17	22°43	14°R40	15°14	3°10	14° 9	F 28
S 29	16 25 57	7°40'48	14° 6	22°53	28°34	23°42	23°15	23°10	6° 9	10°17	22°44	14°40	15°11	3°17	14°13	S 29
S 30	16 29 54	8°38'26	26° 0	22°49	29°48	24°18	23°28	23°17	6°11	10°17	22°45	14°40	15° 8	3°23	14°17	S 30
M31	16 33 50	9♂36'02	7♀52	22♂40	1♂ 2	24♂55	23♂42	23♂25	6♀13	10♂18	22♂46	14♂39	15♂ 4	3♀30	14♂20	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	15n 0	4s35	5n 7	20n22	1n32	8n 0	1s28	24n44	1n30	22n26	0s21	21n50	1s11	1n20	0s42	8s32	0s43	21n51	0n17	22s36	22s45	4n39	14n19	1s18	
S 2	15 18	0 4	5 11	20 58	1 41	8 28	1 28	24 42	1 29	22 28	0 21	21 51	1 11	1 21	0 42	8 31	0 43	21 51	0 17	22 35	22 45	4 41	14 20	1 18	
M 3	15 36	4n27	5 1	21 31	1 49	8 55	1 27	24 40	1 29	22 29	0 21	21 51	1 11	1 22	0 42	8 31	0 43	21 51	0 17	22 35	22 44	4 44	14 21	1 18	
T 4	15 53	8 49	4 39	22 2	1 57	9 22	1 26	24 37	1 29	22 30	0 21	21 52	1 11	1 23	0 42	8 30	0 43	21 51	0 17	22 34	22 44	4 46	14 22	1 18	
W 5	16 11	12 52	4 4	22 31	2 4	9 49	1 25	24 35	1 29	22 31	0 21	21 53	1 11	1 24	0 42	8 30	0 43	21 51	0 17	22 34	22 44	4 49	14 23	1 18	
T 6	16 28	16 27	3 18	22 57	2 10	10 16	1 24	24 32	1 29	22 33	0 21	21 53	1 11	1 25	0 42	8 29	0 43	21 51	0 17	22 33	22 43	4 51	14 25	1 18	
F 7	16 44	19 22	2 22	23 21	2 15	10 43	1 23	24 29	1 29	22 34	0 21	21 54	1 11	1 26	0 42	8 29	0 43	21 50	0 17	22 33	22 43	4 54	14 26	1 18	
S 8	17 1	21 26	1 19	23 42	2 20	11 9	1 22	24 26	1 28	22 35	0 20	21 55	1 10	1 27	0 43	8 29	0 43	21 50	0 17	22 32	22 43	4 56	14 27	1 18	
S 9	17 17	22 28	0 12	24 1	2 24	11 35	1 21	24 23	1 28	22 36	0 20	21 55	1 10	1 28	0 43	8 28	0 43	21 50	0 17	22 32	22 42	4 59	14 28	1 18	
M10	17 33	22 22	0s58	24 17	2 27	12 1	1 19	24 19	1 28	22 38	0 20	21 56	1 10	1 30	0 43	8 28	0 43	21 50	0 17	22 32	22 42	5 1	14 29	1 18	
T 11	17 49	21 4	2 6	24 31	2 29	12 26	1 18	24 16	1 28	22 39	0 20	21 57	1 10	1 31	0 43	8 27	0 43	21 50	0 17	22 32	22 42	5 4	14 30	1 18	
W12	18 4	18 36	3 9	24 43	2 30	12 52	1 17	24 12	1 28	22 40	0 20	21 57	1 10	1 32	0 43	8 27	0 43	21 50	0 17	22 33	22 41	5 6	14 31	1 19	
T 13	18 19	15 6	4 2	24 53	2 30	13 16	1 15	24 8	1 27	22 41	0 20	21 58	1 10	1 33	0 43	8 27	0 43	21 50	0 17	22 33	22 41	5 8	14 32	1 19	
F 14	18 34	10 44	4 43	25 0	2 30	13 41	1 14	24 4	1 27	22 42	0 20	21 58	1 10	1 34	0 43	8 26	0 43	21 50	0 17	22 33	22 41	5 11	14 33	1 19	
S 15	18 48	5 43	5 8	25 6	2 28	14 5	1 12	24 0	1 27	22 43	0 20	21 59	1 9	1 35	0 43	8 26	0 43	21 50	0 18	22 33	22 40	5 13	14 34	1 19	
S 16	19 2	0 18	5 15	25 10	2 25	14 29	1 11	23 55	1 27	22 44	0 20	22 0	1 9	1 36	0 43	8 26	0 43	21 50	0 18	22 33	22 40	5 16	14 35	1 19	
M17	19 16	5s12	5 2	25 12	2 22	14 53	1 9	23 51	1 27	22 45	0 19	22 0	1 9	1 36	0 43	8 25	0 43	21 50	0 18	22 32	22 40	5 18	14 36	1 19	
T 18	19 29	10 29	4 29	25 12	2 17	15 16	1 7	23 46	1 26	22 46	0 19	22 1	1 9	1 37	0 43	8 25	0 43	21 49	0 18	22 32	22 39	5 21	14 38	1 19	
W19	19 42	15 11	3 38	25 10	2 11	15 39	1 6	23 41	1 26	22 48	0 19	22 1	1 9	1 38	0 43	8 25	0 43	21 49	0 18	22 32	22 39	5 23	14 39	1 19	
T 20	19 55	18 56	2 34	25 7	2 5	16 1	1 4	23 36	1 26	22 49	0 19	22 2	1 9	1 39	0 43	8 25	0 43	21 49	0 18	22 32	22 39	5 26	14 40	1 19	
F 21	20 8	21 26	1 20	25 2	1 57	16 23	1 2	23 31	1 26	22 49	0 19	22 2	1 9	1 40	0 43	8 24	0 43	21 49	0 18	22 32	22 38	5 28	14 41	1 19	
S 22	20 20	22 31	0 2	24 56	1 48	16 45	1 0	23 25	1 25	22 50	0 19	22 3	1 9	1 41	0 43	8 24	0 43	21 49	0 18	22 32	22 38	5 30	14 42	1 19	
S 23	20 31	22 10	1n14	24 48	1 39	17 6	0 58	23 20	1 25	22 51	0 19	22 3	1 8	1 42	0 43	8 24	0 44	21 49	0 18	22 32	22 38	5 33	14 43	1 20	
M24	20 43	20 31	2 24	24 39	1 28	17 27	0 57	23 14	1 25	22 52	0 19	22 4	1 8	1 43	0 43	8 24	0 44	21 49	0 18	22 32	22 37	5 35	14 44	1 20	
T 25	20 54	17 48	3 24	24 28	1 16	17 47	0 55	23 8	1 25	22 53	0 18	22 5	1 8	1 44	0 43	8 23	0 44	21 49	0 18	22 32	22 37	5 38	14 45	1 20	
W26	21 4	14 18	4 13	24 17	1 4	18 7	0 53	23 2	1 25	22 54	0 18	22 5	1 8	1 44	0 43	8 23	0 44	21 49	0 18	22 32	22 37	5 40	14 46	1 20	
T 27	21 15	10 16	4 48	24 4	0 51	18 27	0 51	22 56	1 24	22 55	0 18	22 6	1 8	1 45	0 43	8 23	0 44	21 48	0 18	22 32	22 36	5 43	14 47	1 20	
F 28	21 25	5 54	5 9	23 50	0 36	18 45	0 49	22 49	1 24	22 56	0 18	22 6	1 8	1 46	0 43	8 23	0 44	21 48	0 18	22 32	22 36	5 45	14 48	1 20	
S 29	21 34	5 22	5 17	23 35	0 22	18 45	0 47	22 43	1 24	22 57	0 18	22 7	1 8	1 47	0 43	8 23	0 44	21 48	0 18	22 32	22 36	5 47	14 49	1 20	
S 30	21 43	3n10	5 11	23 19	0 6	19 22	0 44	22 36	1 24	22 57	0 18	22 7	1 8	1 48	0 43	8 23	0 44	21 48	0 18	22 32	22 35	5 50	14 50	1 20	
M31	21n52	7n35	4n51	23n 2	0s10	19n39	0s42	22n29	1n23	22n58	0s18	22n 8	1 s 8	1n48	0s43	8s22	0s44	21n48	0n18	22s32	22s35	5n52	14n51	1s20	

ASTRODIENST EPHEMERIS for the year 2179

geocentric

JUNE 2179

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 47	10 ¹¹ 33'38	19 ¹⁹ 47	22 ²² R26	2 ²² II15	25 ²⁵ ☾32	23 ²³ II56	23 ²³ II33	6 ⁶ Υ15	10 ¹⁰ ✠18	22 ²² ☾48	14 ¹⁴ R39	15 ¹⁵ ☾1	3 ³ Υ37	14 ¹⁴ ☾24	T 1
W 2	16 41 43	11 ¹¹ 31'13	1 ¹ ☾48	22 ²² II 9	3 ³ 29	26 ²⁶ 8	24 ²⁴ 9	23 ²³ 40	6 ⁶ 17	10 ¹⁰ 19	22 ²² 49	14 ¹⁴ ☾38	14 ¹⁴ 58	3 ³ 43	14 ¹⁴ 27	W 2
T 3	16 45 40	12 ¹² 28'46	13 ¹³ 59	21 ²¹ 49	4 ⁴ 43	26 ²⁶ 45	24 ²⁴ 23	23 ²³ 48	6 ⁶ 18	10 ¹⁰ 19	22 ²² 50	14 ¹⁴ 38	14 ¹⁴ 55	3 ³ 50	14 ¹⁴ 31	T 3
F 4	16 49 36	13 ¹³ 26'19	26 ²⁶ 21	21 ²¹ 25	5 ⁵ 56	27 ²⁷ 22	24 ²⁴ 37	23 ²³ 56	6 ⁶ 20	10 ¹⁰ 19	22 ²² 51	14 ¹⁴ 38	14 ¹⁴ 52	3 ³ 57	14 ¹⁴ 35	F 4
S 5	16 53 33	14 ¹⁴ 23'51	8 ⁸ II57	20 ²⁰ 58	7 ⁷ 10	27 ²⁷ 58	24 ²⁴ 50	24 ²⁴ 3	6 ⁶ 22	10 ¹⁰ 20	22 ²² 53	14 ¹⁴ 38	14 ¹⁴ 49	4 ⁴ 4	14 ¹⁴ 38	S 5
S 6	16 57 29	15 ¹⁵ 21'22	21 ²¹ 48	20 ²⁰ 29	8 ⁸ 24	28 ²⁸ 35	25 ²⁵ 4	24 ²⁴ 11	6 ⁶ 24	10 ¹⁰ 20	22 ²² 54	14 ¹⁴ 38	14 ¹⁴ 45	4 ⁴ 10	14 ¹⁴ 42	S 6
M 7	17 1 26	16 ¹⁶ 18'52	4 ⁴ ☾53	19 ¹⁹ 57	9 ⁹ 37	29 ²⁹ 12	25 ²⁵ 18	24 ²⁴ 19	6 ⁶ 25	10 ¹⁰ 20	22 ²² 55	14 ¹⁴ 38	14 ¹⁴ 42	4 ⁴ 17	14 ¹⁴ 45	M 7
T 8	17 5 23	17 ¹⁷ 16'21	18 ¹⁸ 13	19 ¹⁹ 25	10 ¹⁰ 51	29 ²⁹ 49	25 ²⁵ 32	24 ²⁴ 27	6 ⁶ 27	10 ¹⁰ 20	22 ²² 56	14 ¹⁴ 37	14 ¹⁴ 39	4 ⁴ 24	14 ¹⁴ 49	T 8
W 9	17 9 19	18 ¹⁸ 13'49	1 ¹ ☾46	18 ¹⁸ 52	12 ¹² 5	0 ⁰ ☾25	25 ²⁵ 45	24 ²⁴ 34	6 ⁶ 29	10 ¹⁰ 20	22 ²² 58	14 ¹⁴ 37	14 ¹⁴ 36	4 ⁴ 30	14 ¹⁴ 52	W 9
T 10	17 13 16	19 ¹⁹ 11'16	15 ¹⁵ 32	18 ¹⁸ 18	13 ¹³ 18	1 ¹ 2	25 ²⁵ 59	24 ²⁴ 42	6 ⁶ 30	10 ¹⁰ 20	22 ²² 59	14 ¹⁴ 37	14 ¹⁴ 33	4 ⁴ 37	14 ¹⁴ 55	T 10
F 11	17 17 12	20 ²⁰ 8'41	29 ²⁹ 28	17 ¹⁷ 45	14 ¹⁴ 32	1 ¹ 39	26 ²⁶ 13	24 ²⁴ 50	6 ⁶ 32	10 ¹⁰ 20	23 ²³ 1	14 ¹⁴ 36	14 ¹⁴ 30	4 ⁴ 44	14 ¹⁴ 59	F 11
S 12	17 21 9	21 ²¹ 6'05	13 ¹³ ☾33	17 ¹⁷ 13	15 ¹⁵ 45	2 ² 16	26 ²⁶ 27	24 ²⁴ 58	6 ⁶ 33	10 ¹⁰ 20	23 ²³ 2	14 ¹⁴ 36	14 ¹⁴ 26	4 ⁴ 51	15 ¹⁵ 2	S 12
S 13	17 25 5	22 ²² 3'29	27 ²⁷ 46	16 ¹⁶ 42	16 ¹⁶ 59	2 ² 52	26 ²⁶ 41	25 ²⁵ 6	6 ⁶ 34	10 ¹⁰ R20	23 ²³ 3	14 ¹⁴ D36	14 ¹⁴ 23	4 ⁴ 57	15 ¹⁵ 5	S 13
M14	17 29 2	23 ²³ 0'51	12 ¹² ☾ 3	16 ¹⁶ 13	18 ¹⁸ 13	3 ³ 29	26 ²⁶ 54	25 ²⁵ 13	6 ⁶ 36	10 ¹⁰ 20	23 ²³ 5	14 ¹⁴ 36	14 ¹⁴ 20	5 ⁵ 4	15 ¹⁵ 9	M14
T 15	17 32 58	23 ²³ 58'12	26 ²⁶ 21	15 ¹⁵ 47	19 ¹⁹ 26	4 ⁴ 6	27 ²⁷ 8	25 ²⁵ 21	6 ⁶ 37	10 ¹⁰ 20	23 ²³ 6	14 ¹⁴ 37	14 ¹⁴ 17	5 ⁵ 11	15 ¹⁵ 12	T 15
W16	17 36 55	24 ²⁴ 55'32	10 ¹⁰ ☾39	15 ¹⁵ 23	20 ²⁰ 40	4 ⁴ 43	27 ²⁷ 22	25 ²⁵ 29	6 ⁶ 38	10 ¹⁰ 20	23 ²³ 7	14 ¹⁴ 38	14 ¹⁴ 14	5 ⁵ 17	15 ¹⁵ 15	W16
T 17	17 40 52	25 ²⁵ 52'51	24 ²⁴ 51	15 ¹⁵ 3	21 ²¹ 54	5 ⁵ 20	27 ²⁷ 36	25 ²⁵ 37	6 ⁶ 40	10 ¹⁰ 20	23 ²³ 9	14 ¹⁴ 38	14 ¹⁴ 10	5 ⁵ 24	15 ¹⁵ 18	T 17
F 18	17 44 48	26 ²⁶ 50'09	8 ⁸ ☾55	14 ¹⁴ 46	23 ²³ 7	5 ⁵ 57	27 ²⁷ 50	25 ²⁵ 45	6 ⁶ 41	10 ¹⁰ 20	23 ²³ 10	14 ¹⁴ R39	14 ¹⁴ 7	5 ⁵ 31	15 ¹⁵ 22	F 18
S 19	17 48 45	27 ²⁷ 47'27	22 ²² 47	14 ¹⁴ 34	24 ²⁴ 21	6 ⁶ 33	28 ²⁸ 4	25 ²⁵ 52	6 ⁶ 42	10 ¹⁰ 20	23 ²³ 12	14 ¹⁴ 39	14 ¹⁴ 4	5 ⁵ 38	15 ¹⁵ 25	S 19
S 20	17 52 41	28 ²⁸ 44'44	6 ⁶ ☾23	14 ¹⁴ 25	25 ²⁵ 35	7 ⁷ 10	28 ²⁸ 17	26 ²⁶ 0	6 ⁶ 43	10 ¹⁰ 20	23 ²³ 13	14 ¹⁴ 38	14 ¹⁴ 1	5 ⁵ 44	15 ¹⁵ 28	S 20
M21	17 56 38	29 ²⁹ 42'01	19 ¹⁹ 42	14 ¹⁴ D21	26 ²⁶ 48	7 ⁷ 47	28 ²⁸ 31	26 ²⁶ 8	6 ⁶ 44	10 ¹⁰ 19	23 ²³ 15	14 ¹⁴ 37	13 ¹³ 58	5 ⁵ 51	15 ¹⁵ 31	M21
T 22	18 0 34	0 ⁰ ☾39'17	2 ² ☾43	14 ¹⁴ 22	28 ²⁸ 2	8 ⁸ 24	28 ²⁸ 45	26 ²⁶ 16	6 ⁶ 45	10 ¹⁰ 19	23 ²³ 16	14 ¹⁴ 35	13 ¹³ 55	5 ⁵ 58	15 ¹⁵ 34	T 22
W23	18 4 31	1 ¹ 36'32	15 ¹⁵ 25	14 ¹⁴ 27	29 ²⁹ 16	9 ⁹ 1	28 ²⁸ 59	26 ²⁶ 24	6 ⁶ 46	10 ¹⁰ 19	23 ²³ 18	14 ¹⁴ 32	13 ¹³ 51	6 ⁶ 4	15 ¹⁵ 37	W23
T 24	18 8 28	2 ² 33'48	27 ²⁷ 51	14 ¹⁴ 36	0 ⁰ ☾29	9 ⁹ 38	29 ²⁹ 13	26 ²⁶ 31	6 ⁶ 47	10 ¹⁰ 18	23 ²³ 19	14 ¹⁴ 30	13 ¹³ 48	6 ⁶ 11	15 ¹⁵ 40	T 24
F 25	18 12 24	3 ³ 31'03	10 ¹⁰ ☾ 2	14 ¹⁴ 50	1 ¹ 43	10 ¹⁰ 15	29 ²⁹ 26	26 ²⁶ 39	6 ⁶ 48	10 ¹⁰ 18	23 ²³ 21	14 ¹⁴ 28	13 ¹³ 45	6 ⁶ 18	15 ¹⁵ 43	F 25
S 26	18 16 21	4 ⁴ 28'17	22 ²² 3	15 ¹⁵ 9	2 ² 57	10 ¹⁰ 52	29 ²⁹ 40	26 ²⁶ 47	6 ⁶ 48	10 ¹⁰ 18	23 ²³ 22	14 ¹⁴ 26	13 ¹³ 42	6 ⁶ 25	15 ¹⁵ 46	S 26
S 27	18 20 17	5 ⁵ 25'32	3 ³ Υ58	15 ¹⁵ 33	4 ⁴ 10	11 ¹¹ 29	29 ²⁹ 54	26 ²⁶ 55	6 ⁶ 49	10 ¹⁰ 17	23 ²³ 24	14 ¹⁴ D26	13 ¹³ 39	6 ⁶ 31	15 ¹⁵ 49	S 27
M28	18 24 14	6 ⁶ 22'47	15 ¹⁵ 51	16 ¹⁶ 1	5 ⁵ 24	12 ¹² 6	0 ⁰ ☾ 8	27 ²⁷ 2	6 ⁶ 50	10 ¹⁰ 17	23 ²³ 25	14 ¹⁴ 26	13 ¹³ 36	6 ⁶ 38	15 ¹⁵ 51	M28
T 29	18 28 10	7 ⁷ 20'01	27 ²⁷ 46	16 ¹⁶ 34	6 ⁶ 38	12 ¹² 43	0 ⁰ 21	27 ²⁷ 10	6 ⁶ 51	10 ¹⁰ 16	23 ²³ 27	14 ¹⁴ 27	13 ¹³ 32	6 ⁶ 45	15 ¹⁵ 54	T 29
W30	18 32 7	8 ⁸ ☾17'16	9 ⁹ ☾49	17 ¹⁷ II12	7 ⁷ ☾52	13 ¹³ ☾20	0 ⁰ ☾35	27 ²⁷ II18	6 ⁶ Υ51	10 ¹⁰ ✠16	23 ²³ ☾28	14 ¹⁴ ☾29	13 ¹³ ☾29	6 ⁶ Υ51	15 ¹⁵ ☾57	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	22n 0	11n44	4n19	22n45	0s27	19n56	0s40	22n23	1n23	22n59	0s18	22n 8	1s 8	1n49	0s43	8s22	0s44	21n48	0n18	22s32	22s34	5n55	14n52	1s20							
W 2	22 9	15 28	3 36	22 27	0 44	20 13	0 38	22 15	1 23	23 0	0 18	22 8	1 7	1 50	0 43	8 22	0 44	21 48	0 19	22 32	22 34	5 57	14 53	1 21							
T 3	22 16	18 36	2 42	22 8	1 2	20 28	0 36	22 8	1 23	23 0	0 18	22 9	1 7	1 50	0 43	8 22	0 44	21 47	0 19	22 32	22 34	5 59	14 54	1 21							
F 4	22 23	20 56	1 40	21 49	1 19	20 44	0 33	22 1	1 22	23 1	0 17	22 9	1 7	1 51	0 43	8 22	0 44	21 47	0 19	22 32	22 33	6 2	14 54	1 21							
S 5	22 30	22 17	0 31	21 30	1 36	20 58	0 31	21 53	1 22	23 2	0 17	22 10	1 7	1 52	0 43	8 22	0 44	21 47	0 19	22 32	22 33	6 4	14 55	1 21							
S 6	22 37	22 30	0s40	21 11	1 54	21 12	0 29	21 46	1 22	23 2	0 17	22 10	1 7	1 52	0 43	8 22	0 44	21 47	0 19	22 32	22 33	6 7	14 56	1 21							
M 7	22 43	21 30	1 50	20 52	2 11	21 26	0 27	21 38	1 22	23 3	0 17	22 11	1 7	1 53	0 43	8 22	0 44	21 47	0 19	22 32	22 32	6 9	14 57	1 21							
T 8	22 48	19 17	2 56	20 33	2 27	21 39	0 24	21 30	1 21	23 3	0 17	22 11	1 7	1 54	0 43	8 22	0 44	21 47	0 19	22 32	22 32	6 11	14 58	1 21							
W 9	22 54	15 58	3 53	20 15	2 43	21 51	0 22	21 22	1 21	23 4	0 17	22 12	1 7	1 54	0 43	8 22	0 44	21 46	0 19	22 32	22 32	6 14	14 59	1 21							
T 10	22 59	11 45	4 37	19 57	2 58	22 3	0 20	21 13	1 21	23 4	0 17	22 12	1 7	1 55	0 43	8 22	0 44	21 46	0 19	22 32	22 31	6 16	15 10	1 22							
F 11	23 3	6 52	5 6	19 40	3 12	22 14	0 17	21 5	1 21	23 5	0 17	22 12	1 7	1 55	0 43	8 22	0 44	21 46	0 19	22 32	22 31	6 19	15 1	1 22							
S 12	23 7	1 35	5 17	19 24	3 25	22 24	0 15	20 56	1 20	23 5	0 17	22 13	1 7	1 56	0 43	8 22	0 44	21 46	0 19	22 32	22 31	6 21	15 2	1 22							
S 13	23 11	3s50	5 8	19 9	3 37	22 34	0 13	20 48	1 20	23 6	0 17	22 13	1 6	1 57	0 43	8 22	0 44	21 46	0 19	22 32	22 30	6 23	15 2	1 22							
M14	23 14	9 4	4 41	18 56	3 48	22 43	0 10	20 39	1 20	23 6	0 16	22 13	1 6	1 57	0 44	8 22	0 44	21 46	0 19	22 32	22 30	6 26	15 3	1 22							
T 15	23 17	13 50	3 57	18 44	3 57	22 52	0 8	20 30	1 20	23 7	0 16	22 14	1 6	1 58	0 44	8 22	0 44	21 45	0 19	22 32	22 29	6 28	15 4	1 22							
W16	23 19	17 48	2 57	18 33	4 5	23 0	0 5	20 21	1 19	23 7	0 16	22 14	1 6	1 58	0 44	8 22	0 44	21 45	0 19	22 32	22 29	6 31	15 5	1 22							
T 17	23 21	20 42	1 47	18 25	4 12	23 7	0 3	20 12	1 19	23 7	0 16	22 14	1 6	1 58	0 44	8 22	0 44	21 45	0 19	22 32	22 29	6 33	15 6	1 22							
F 18	23 23	22 17	0 32	18 18	4 17	23 14	0 1	20 2	1 19	23 8	0 16	22 15	1 6	1 59	0 44	8 22	0 44	21 45	0 19	22 32	22 28	6 35	15 6	1 23							
S 19	23 24	22 28	0n45	18 12	4 21	23 19	0n 2	19 53	1 18	23 8	0 16	22 15	1 6	1 59	0 44	8 22	0 44	21 45	0 20	22 32	22 28	6 38	15 7	1 23							
S 20	23 25	21 19	1 57	18 9	4 23	23 25	0 4	19 43	1 18	23 8	0 16	22 15	1 6	2 0	0 44	8 22	0 44	21 44	0 20	22 32	22 28	6 40	15 8	1 23							
M21	23 25	18 58	3 2	18 7	4 25	23 29	0 7	19 33	1 18	23 9	0 16	22 16	1 6	2 0	0 44	8 23	0 45	21 44	0 20	22 32	22 27	6 42	15 9	1 23							
T 22	23 25	15 43	3 55	18 7	4 25	23 33	0 9	19 24	1 18	23 9	0 16	22 16	1 6	2 0	0 44	8 23	0 45	21 44	0 20	22 31	22 27	6 45	15 10	1 23							
W23	23 24	11 48	4 36	18 9	4 24	23 36	0 11	19 14	1 17	23 9	0 16	22 16	1 6	2 1	0 44	8 23	0 45	21 44	0 20	22 31	22 26	6 47	15 10	1 23							
T 24	23 23	7 29	5 2	18 12	4 21	23 38	0 14	19 3	1 17	23 9	0 15	22 17	1 6	2 1	0 44	8 23	0 45	21 44	0 20	22 31	22 26	6 49	15 11	1 23							
F 25	23 22	2 57	5 14	18 17	4 18	23 40	0 16	18 53	1 17	23 9	0 15	22 17	1 6	2 1	0 44	8 23	0 45	21 44	0 20	22 31	22 26	6 52	15 12	1 23							
S 26	23 20	1n38	5 12	18 23	4 13	23 41	0 18	18 43	1 16	23 10	0 15	22 17	1 5	2 2	0 44	8 23	0 45	21 43	0 20	22 31	22 25	6 54	15 12	1 24							
S 27	23 18	6 7	4 57	18 31	4 8	23 42	0 21	18 32	1 16	23 10	0 15	22 17	1 5	2 2	0 44	8 24	0 45	21 43	0 20	22 30	22 25	6 56	15 13	1 24							
M28	23 16	10 22	4 29	18 40	4 2	23 41	0 23	18 22	1 16	23 10	0 15	22 18	1 5	2 2	0 44	8 24	0 45	21 43	0 20	22 30	22 25	6 59	15 14	1 24							
T 29	23 13	14 14	3 49	18 51	3 55	23 40	0 25	18 11	1 16	23 10	0 15	22 18	1 5	2 2	0 44	8 24	0 45	21 43	0 20	22 31	22 24	7 1	15 14	1 24							
W30	23n 9	17n35	2n59	19n 2	3s47	23n38	0n27	18n 0	1n15	23n10	0s15	22n18	1s 5	2n 3	0s44	8s24	0s45	21n43	0n20	22s31	22s24	7n 3	15n15	1s24							

ASTRODIENST EPHEMERIS for the year 2179
geocentric

JULY 2179

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 36 3	9♉14'31	22♋4	17♊54	9♉5	13♌57	0♉49	27♊26	6♋52	10♒15	23♉30	14♎30	13♎26	6♋58	16♋0	T 1
F 2	18 40 0	10°11'45	4♊34	18°40	10°19	14°34	1°3	27°33	6°52	10♎14	23°31	14°31	13°23	7°5	16°2	F 2
S 3	18 43 57	11°9'00	17°22	19°31	11°33	15°11	1°16	27°41	6°53	10°14	23°33	14°R32	13°20	7°12	16°5	S 3
S 4	18 47 53	12°6'14	0♉30	20°26	12°47	15°48	1°30	27°49	6°53	10°13	23°34	14°31	13°16	7°18	16°7	S 4
M 5	18 51 50	13°3'29	13°58	21°25	14°0	16°25	1°44	27°56	6°54	10°13	23°36	14°29	13°13	7°25	16°10	M 5
T 6	18 55 46	14°0'43	27°43	22°29	15°14	17°3	1°57	28°4	6°54	10°12	23°38	14°25	13°10	7°32	16°13	T 6
W 7	18 59 43	14°57'57	11♌44	23°37	16°28	17°40	2°11	28°12	6°54	10°11	23°39	14°21	13°7	7°38	16°15	W 7
T 8	19 3 39	15°55'11	25°55	24°48	17°42	18°17	2°25	28°19	6°54	10°10	23°41	14°16	13°4	7°45	16°17	T 8
F 9	19 7 36	16°52'25	10♎13	26°4	18°56	18°54	2°38	28°27	6°55	10°10	23°42	14°12	13°1	7°52	16°20	F 9
S 10	19 11 32	17°49'38	24°33	27°24	20°9	19°31	2°52	28°34	6°55	10°9	23°44	14°9	12°57	7°59	16°22	S 10
S 11	19 15 29	18°46'51	8♊50	28°48	21°23	20°8	3°5	28°42	6°55	10°8	23°46	14°7	12°54	8°5	16°24	S 11
M12	19 19 26	19°44'04	23°3	0♉15	22°37	20°46	3°19	28°49	6°R55	10°7	23°47	14°D7	12°51	8°12	16°27	M12
T 13	19 23 22	20°41'17	7♊8	1°46	23°51	21°23	3°32	28°57	6°55	10°6	23°49	14°8	12°48	8°19	16°29	T 13
W14	19 27 19	21°38'30	21°5	3°22	25°5	22°0	3°46	29°4	6°55	10°5	23°50	14°9	12°45	8°25	16°31	W14
T 15	19 31 15	22°35'43	4♎53	5°0	26°18	22°37	3°59	29°12	6°55	10°4	23°52	14°10	12°42	8°32	16°33	T 15
F 16	19 35 12	23°32'55	18°31	6°42	27°32	23°15	4°12	29°19	6°54	10°3	23°53	14°R10	12°38	8°39	16°35	F 16
S 17	19 39 8	24°30'08	1♉57	8°28	28°46	23°52	4°26	29°26	6°54	10°2	23°55	14°9	12°35	8°45	16°37	S 17
S 18	19 43 5	25°27'21	15°11	10°17	29°59	24°29	4°39	29°34	6°54	10°1	23°57	14°6	12°32	8°52	16°39	S 18
M19	19 47 1	26°24'34	28°13	12°9	1♌14	25°7	4°52	29°41	6°54	10°0	23°58	14°1	12°29	8°59	16°41	M19
T 20	19 50 58	27°21'48	11♋0	14°3	2°27	25°44	5°6	29°48	6°53	9°59	24°0	13°54	12°26	9°6	16°43	T 20
W21	19 54 55	28°19'02	23°34	16°1	3°41	26°21	5°19	29°55	6°53	9°58	24°1	13°46	12°22	9°12	16°44	W21
T 22	19 58 51	29°16'16	5♎54	18°0	4°55	26°59	5°32	0♉3	6°52	9°57	24°3	13°38	12°19	9°19	16°46	T 22
F 23	20 2 48	0♌13'31	18°3	20°2	6°9	27°36	5°45	0°10	6°52	9°56	24°5	13°31	12°16	9°26	16°48	F 23
S 24	20 6 44	1°10'47	0♋2	22°5	7°23	28°14	5°58	0°17	6°51	9°54	24°6	13°25	12°13	9°32	16°49	S 24
S 25	20 10 41	2°8'03	11°56	24°10	8°37	28°51	6°11	0°24	6°51	9°53	24°8	13°21	12°10	9°39	16°51	S 25
M26	20 14 37	3°5'21	23°47	26°16	9°51	29°28	6°24	0°31	6°50	9°52	24°9	13°19	12°7	9°46	16°53	M26
T 27	20 18 34	4°2'39	5♋41	28°22	11°4	0♎6	6°37	0°38	6°49	9°51	24°11	13°D18	12°3	9°53	16°54	T 27
W28	20 22 30	4°59'57	17°44	0♌29	12°18	0°43	6°50	0°45	6°49	9°50	24°12	13°19	12°0	9°59	16°55	W28
T 29	20 26 27	5°57'17	29°59	2°36	13°32	1°21	7°3	0°52	6°48	9°48	24°14	13°20	11°57	10°6	16°57	T 29
F 30	20 30 24	6°54'38	12♊31	4°44	14°46	1°59	7°16	0°59	6°47	9°47	24°16	13°R21	11°54	10°13	16°58	F 30
S 31	20 34 20	7♌52'00	25♊26	6♌50	16♌0	2♎36	7♉29	1♉5	6♋46	9♎46	24♉17	13♎20	11♎51	10♋19	16♋59	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	lat
T 1	23n 6	20n12	2n 0	19n15	3s38	23n36	0n30	17n49	1n15	23n10	0s15	22n18	1s 5	2n 3	0s44	8s25	0s45	21n42	0n20	22s31	22s23	7n 6	15n16	1s24
F 2	23 1	21 55	0 54	19 28	3 29	23 33	0 32	17 38	1 15	23 10	0 15	22 18	1 5	2 3	0 44	8 25	0 45	21 42	0 20	22 31	22 23	7 8	15 16	1 24
S 3	22 57	22 33	0s16	19 42	3 19	23 29	0 34	17 27	1 14	23 10	0 15	22 19	1 5	2 3	0 44	8 25	0 45	21 42	0 20	22 31	22 23	7 10	15 17	1 25
S 4	22 52	21 58	1 27	19 56	3 8	23 24	0 36	17 16	1 14	23 10	0 15	22 19	1 5	2 3	0 44	8 25	0 45	21 42	0 20	22 31	22 22	7 13	15 18	1 25
M 5	22 46	20 8	2 34	20 11	2 57	23 19	0 38	17 4	1 14	23 10	0 14	22 19	1 5	2 3	0 44	8 26	0 45	21 41	0 20	22 31	22 22	7 15	15 18	1 25
T 6	22 41	17 5	3 35	20 26	2 46	23 13	0 41	16 53	1 13	23 10	0 14	22 19	1 5	2 3	0 44	8 26	0 45	21 41	0 21	22 30	22 21	7 17	15 19	1 25
W 7	22 35	13 2	4 23	20 42	2 34	23 6	0 43	16 41	1 13	23 10	0 14	22 19	1 5	2 4	0 44	8 26	0 45	21 41	0 21	22 30	22 21	7 20	15 19	1 25
T 8	22 28	8 13	4 56	20 57	2 22	22 59	0 45	16 29	1 13	23 9	0 14	22 19	1 5	2 4	0 44	8 27	0 45	21 41	0 21	22 29	22 21	7 22	15 20	1 25
F 9	22 21	2 56	5 11	21 12	2 10	22 51	0 47	16 18	1 13	23 9	0 14	22 20	1 5	2 4	0 44	8 27	0 45	21 41	0 21	22 29	22 20	7 24	15 20	1 26
S 10	22 14	2s32	5 7	21 27	1 57	22 42	0 49	16 6	1 12	23 9	0 14	22 20	1 5	2 4	0 44	8 27	0 45	21 40	0 21	22 28	22 20	7 27	15 21	1 26
S 11	22 6	7 50	4 43	21 41	1 44	22 33	0 51	15 54	1 12	23 9	0 14	22 20	1 5	2 4	0 44	8 28	0 45	21 40	0 21	22 28	22 19	7 29	15 21	1 26
M12	21 58	12 42	4 3	21 54	1 31	22 23	0 53	15 41	1 12	23 9	0 14	22 20	1 5	2 4	0 44	8 28	0 45	21 40	0 21	22 28	22 19	7 31	15 22	1 26
T 13	21 49	16 50	3 8	22 6	1 18	22 12	0 54	15 29	1 11	23 8	0 14	22 20	1 5	2 4	0 44	8 28	0 45	21 40	0 21	22 28	22 19	7 34	15 22	1 26
W14	21 41	19 59	2 2	22 17	1 5	22 1	0 56	15 17	1 11	23 8	0 14	22 20	1 5	2 4	0 45	8 29	0 45	21 40	0 21	22 29	22 18	7 36	15 23	1 26
T 15	21 31	21 55	0 50	22 27	0 52	21 49	0 58	15 4	1 11	23 8	0 14	22 20	1 5	2 3	0 45	8 29	0 45	21 39	0 21	22 29	22 18	7 38	15 23	1 26
F 16	21 22	22 32	0n24	22 36	0 39	21 37	1 0	14 52	1 10	23 7	0 14	22 20	1 5	2 3	0 45	8 29	0 45	21 39	0 21	22 29	22 17	7 41	15 24	1 27
S 17	21 12	21 49	1 35	22 42	0 26	21 23	1 2	14 39	1 10	23 7	0 13	22 20	1 4	2 3	0 45	8 30	0 45	21 39	0 21	22 29	22 17	7 43	15 24	1 27
S 18	21 2	19 54	2 40	22 47	0 14	21 10	1 3	14 26	1 10	23 7	0 13	22 20	1 4	2 3	0 45	8 30	0 45	21 39	0 21	22 28	22 17	7 45	15 24	1 27
M19	20 51	16 59	3 36	22 50	0 2	20 55	1 5	14 14	1 9	23 6	0 13	22 20	1 4	2 3	0 45	8 31	0 45	21 38	0 21	22 28	22 16	7 47	15 25	1 27
T 20	20 40	13 18	4 19	22 50	0n10	20 40	1 6	14 1	1 9	23 6	0 13	22 21	1 4	2 3	0 45	8 31	0 45	21 38	0 21	22 27	22 16	7 50	15 25	1 27
W21	20 29	9 6	4 49	22 48	0 21	20 24	1 8	13 48	1 9	23 5	0 13	22 21	1 4	2 3	0 45	8 32	0 45	21 38	0 21	22 26	22 15	7 52	15 25	1 27
T 22	20 17	4 36	5 5	22 44	0 32	20 8	1 9	13 35	1 8	23 5	0 13	22 21	1 4	2 2	0 45	8 32	0 45	21 38	0 22	22 25	22 15	7 54	15 26	1 28
F 23	20 5	0 1	5 7	22 37	0 42	19 52	1 11	13 21	1 8	23 4	0 13	22 21	1 4	2 2	0 45	8 32	0 46	21 38	0 22	22 24	22 14	7 57	15 26	1 28
S 24	19 53	4n32	4 55	22 27	0 51	19 34	1 12	13 8	1 8	23 4	0 13	22 21	1 4	2 2	0 45	8 33	0 46	21 37	0 22	22 23	22 14	7 59	15 26	1 28
S 25	19 40	8 52	4 31	22 15	1 0	19 16	1 13	12 55	1 7	23 3	0 13	22 21	1 4	2 2	0 45	8 33	0 46	21 37	0 22	22 23	22 14	8 1	15 27	1 28
M26	19 27	12 51	3 55	22 0	1 8	18 58	1 15	12 41	1 7	23 3	0 13	22 21	1 4	2 1	0 45	8 34	0 46	21 37	0 22	22 22	22 13	8 3	15 27	1 28
T 27	19 14	16 22	3 8	21 42	1 16	18 39	1 16	12 28	1 7	23 2	0 13	22 21	1 4	2 1	0 45	8 34	0 46	21 37	0 22	22 22	22 13	8 6	15 27	1 28
W28	19 0	19 14	2 13	21 22	1 22	18 19	1 17	12 14	1 6	23 2	0 13	22 21	1 4	2 1	0 45	8 35	0 46	21 37	0 22	22 22	22 12	8 8	15 28	1 29
T 29	18 46	21 17	1 11	20 59	1 28	17 59	1 18	12 1	1 6	23 1	0 12	22 21	1 4	2 0	0 45	8 35	0 46	21 36	0 22	22 23	22 12	8 10	15 28	1 29
F 30	18 32	22 21	0 4	20 34	1 33	17 39	1 19	11 47	1 6	23 1	0 12	22 21	1 4	2 0	0 45	8 36	0 46	21 36	0 22	22 23	22 12	8 12	15 28	1 29
S 31	18n17	22n16	1s 4	20n 7	1n37	17n18	1n20	11n33	1n 5	23n 0	0s12	22n20	1s 4	2n 0	0s45	8s36	0s46	21n36	0n22	22s23	22s11	8n15	15n28	1s29

ASTRODIENST EPHEMERIS for the year 2179

geocentric

AUGUST 2179

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 17	8♌49'22	8♌44	8♌56	17♌14	3♈14	7♌41	1♌12	6♈R45	9♈R44	24♌19	13♈R17	11♌48	10♈Y26	17♌1	S 1
M 2	20 42 13	9°46'46	22°28	11° 2	18°28	3°51	7°54	1°19	6♈Y44	9♈Y43	24°20	13♌12	11°44	10°33	17° 2	M 2
T 3	20 46 10	10°44'10	6♌35	13° 6	19°42	4°29	8° 7	1°25	6°43	9°42	24°22	13° 5	11°41	10°40	17° 3	T 3
W 4	20 50 6	11°41'36	21° 1	15°10	20°56	5° 7	8°19	1°32	6°42	9°40	24°23	12°57	11°38	10°46	17° 4	W 4
T 5	20 54 3	12°39'01	5♈39	17°12	22°10	5°44	8°32	1°39	6°41	9°39	24°25	12°47	11°35	10°53	17° 5	T 5
F 6	20 57 59	13°36'28	20°23	19°12	23°24	6°22	8°44	1°45	6°40	9°37	24°26	12°39	11°32	11° 0	17° 6	F 6
S 7	21 1 56	14°33'55	5♌4	21°12	24°38	7° 0	8°57	1°52	6°39	9°36	24°28	12°32	11°28	11° 6	17° 7	S 7
S 8	21 5 53	15°31'23	19°36	23°10	25°52	7°37	9° 9	1°58	6°38	9°34	24°29	12°27	11°25	11°13	17° 7	S 8
M 9	21 9 49	16°28'52	3♈55	25° 6	27° 6	8°15	9°21	2° 4	6°36	9°33	24°31	12°25	11°22	11°20	17° 8	M 9
T 10	21 13 46	17°26'21	17°59	27° 1	28°20	8°53	9°33	2°11	6°35	9°31	24°32	12°D24	11°19	11°26	17° 9	T 10
W11	21 17 42	18°23'52	1♌46	28°55	29°34	9°31	9°45	2°17	6°34	9°30	24°34	12°24	11°16	11°33	17°10	W11
T 12	21 21 39	19°21'23	15°17	0♈46	0♈47	10° 9	9°58	2°23	6°32	9°28	24°35	12°R25	11°13	11°40	17°10	T 12
F 13	21 25 35	20°18'54	28°35	2°37	2° 1	10°46	10°10	2°29	6°31	9°27	24°37	12°24	11° 9	11°47	17°11	F 13
S 14	21 29 32	21°16'27	11♌40	4°26	3°15	11°24	10°21	2°35	6°30	9°25	24°38	12°20	11° 6	11°53	17°11	S 14
S 15	21 33 28	22°14'00	24°33	6°13	4°29	12° 2	10°33	2°41	6°28	9°24	24°40	12°14	11° 3	12° 0	17°12	S 15
M16	21 37 25	23°11'35	7♈15	7°59	5°43	12°40	10°45	2°47	6°27	9°22	24°41	12° 6	11° 0	12° 7	17°12	M16
T 17	21 41 22	24° 9'11	19°47	9°43	6°57	13°18	10°57	2°53	6°25	9°21	24°42	11°55	10°57	12°13	17°12	T 17
W18	21 45 18	25° 6'47	2♈8	11°26	8°11	13°56	11° 9	2°59	6°23	9°19	24°44	11°42	10°54	12°20	17°12	W18
T 19	21 49 15	26° 4'25	14°20	13° 7	9°25	14°34	11°20	3° 5	6°22	9°18	24°45	11°30	10°50	12°27	17°13	T 19
F 20	21 53 11	27° 2'04	26°22	14°47	10°39	15°12	11°32	3°10	6°20	9°16	24°47	11°17	10°47	12°33	17°13	F 20
S 21	21 57 8	27°59'45	8♈Y18	16°25	11°53	15°50	11°43	3°16	6°18	9°14	24°48	11° 7	10°44	12°40	17°13	S 21
S 22	22 1 4	28°57'27	20° 9	18° 2	13° 7	16°28	11°54	3°21	6°17	9°13	24°49	10°59	10°41	12°47	17°R13	S 22
M23	22 5 1	29°55'11	1♌59	19°38	14°21	17° 6	12° 6	3°27	6°15	9°11	24°51	10°54	10°38	12°54	17°13	M23
T 24	22 8 57	0♈52'56	13°51	21°12	15°35	17°44	12°17	3°32	6°13	9°10	24°52	10°51	10°34	13° 0	17°13	T 24
W25	22 12 54	1°50'43	25°51	22°44	16°49	18°22	12°28	3°38	6°11	9° 8	24°53	10°50	10°31	13° 7	17°12	W25
T 26	22 16 51	2°48'32	8♈3	24°15	18° 3	19° 0	12°39	3°43	6° 9	9° 6	24°55	10°49	10°28	13°14	17°12	T 26
F 27	22 20 47	3°46'22	20°34	25°45	19°17	19°38	12°50	3°48	6° 7	9° 5	24°56	10°49	10°25	13°20	17°12	F 27
S 28	22 24 44	4°44'15	3♌28	27°14	20°31	20°17	13° 1	3°53	6° 6	9° 3	24°57	10°48	10°22	13°27	17°12	S 28
S 29	22 28 40	5°42'08	16°48	28°40	21°45	20°55	13°11	3°58	6° 4	9° 1	24°59	10°44	10°19	13°34	17°11	S 29
M30	22 32 37	6°40'04	0♌37	0♌6	22°59	21°33	13°22	4° 3	6° 2	9° 0	25° 0	10°38	10°15	13°40	17°11	M30
T 31	22 36 33	7♈38'01	14♌55	1♌30	24♈13	22♈11	13♌33	4♌8	6♈Y0	8♈Y58	25♌1	10♌29	10♌12	13♈Y47	17♌10	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	18n 2	20n56	2s12	19n37	1n40	16n56	1n21	11n19	1n 5	22n59	0s12	22n20	1s 4	1n59	0s45	8s37
M 2	17 47	18 22	3 14	19 6	1 43	16 35	1 22	11 5	1 5	22 59	0 12	22 20	1 4	1 59	0 45	8 38
T 3	17 31	14 39	4 5	18 32	1 45	16 12	1 23	10 51	1 4	22 58	0 12	22 20	1 4	1 59	0 45	8 38
W 4	17 16	10 1	4 42	17 58	1 46	15 49	1 23	10 37	1 4	22 57	0 12	22 20	1 4	1 58	0 45	8 39
T 5	17 0	4 45	5 2	17 21	1 46	15 26	1 24	10 23	1 4	22 57	0 12	22 20	1 4	1 58	0 45	8 39
F 6	16 43	0s49	5 1	16 44	1 46	15 2	1 25	10 9	1 3	22 56	0 12	22 20	1 4	1 57	0 45	8 40
S 7	16 27	6 19	4 41	16 5	1 45	14 38	1 25	9 54	1 3	22 55	0 12	22 20	1 4	1 57	0 45	8 40
S 8	16 10	11 25	4 3	15 25	1 44	14 14	1 26	9 40	1 2	22 54	0 12	22 20	1 4	1 56	0 45	8 41
M 9	15 53	15 47	3 10	14 44	1 41	13 49	1 26	9 26	1 2	22 54	0 12	22 20	1 4	1 56	0 45	8 41
T 10	15 36	19 11	2 6	14 2	1 39	13 24	1 26	9 11	1 2	22 53	0 11	22 20	1 4	1 55	0 45	8 42
W11	15 18	21 25	0 56	13 20	1 36	12 58	1 27	8 57	1 1	22 52	0 11	22 20	1 4	1 55	0 45	8 43
T 12	15 0	22 21	0n15	12 37	1 32	12 32	1 27	8 42	1 1	22 51	0 11	22 20	1 4	1 54	0 45	8 43
F 13	14 42	22 0	1 25	11 54	1 28	12 6	1 27	8 27	1 1	22 50	0 11	22 19	1 4	1 53	0 45	8 44
S 14	14 24	20 26	2 29	11 10	1 23	11 39	1 27	8 13	1 0	22 50	0 11	22 19	1 4	1 53	0 45	8 44
S 15	14 5	17 51	3 24	10 26	1 18	11 13	1 27	7 58	1 0	22 49	0 11	22 19	1 4	1 52	0 45	8 45
M16	13 46	14 26	4 8	9 42	1 13	10 45	1 27	7 43	1 0	22 48	0 11	22 19	1 4	1 52	0 45	8 46
T 17	13 27	10 27	4 39	8 57	1 7	10 18	1 27	7 28	0 59	22 47	0 11	22 19	1 4	1 51	0 46	8 46
W18	13 8	6 5	4 57	8 13	1 1	9 50	1 27	7 13	0 59	22 46	0 11	22 19	1 4	1 50	0 46	8 47
T 19	12 49	1 32	5 1	7 28	0 55	9 22	1 27	6 58	0 58	22 45	0 11	22 19	1 4	1 50	0 46	8 47
F 20	12 29	3n 0	4 51	6 43	0 48	8 54	1 26	6 43	0 58	22 44	0 11	22 19	1 4	1 49	0 46	8 48
S 21	12 9	7 24	4 28	5 59	0 41	8 25	1 26	6 28	0 58	22 43	0 11	22 18	1 4	1 48	0 46	8 49
S 22	11 50	11 29	3 54	5 15	0 34	7 57	1 26	6 13	0 57	22 42	0 11	22 18	1 4	1 48	0 46	8 49
M23	11 29	15 7	3 10	4 30	0 26	7 28	1 25	5 58	0 57	22 42	0 10	22 18	1 4	1 47	0 46	8 50
T 24	11 9	18 10	2 18	3 46	0 19	6 59	1 24	5 43	0 57	22 41	0 10	22 18	1 4	1 46	0 46	8 50
W25	10 48	20 28	1 18	3 3	0 11	6 29	1 24	5 27	0 56	22 40	0 10	22 18	1 4	1 45	0 46	8 51
T 26	10 28	21 52	0 15	2 19	0 3	6 0	1 23	5 12	0 56	22 39	0 10	22 18	1 4	1 45	0 46	8 52
F 27	10 7	22 14	0s51	1 36	0s 5	5 30	1 22	4 57	0 55	22 38	0 10	22 17	1 4	1 44	0 46	8 52
S 28	9 46	21 26	1 57	0 54	0 14	5 0	1 21	4 41	0 55	22 37	0 10	22 17	1 4	1 43	0 46	8 53
S 29	9 25	19 25	2 58	0 11	0 22	4 30	1 21	4 26	0 55	22 36	0 10	22 17	1 4	1 42	0 46	8 54
M30	9 3	16 14	3 51	0s30	0 31	4 0	1 20	4 11	0 54	22 35	0 10	22 17	1 4	1 41	0 46	8 54
T 31	8n42	12n 1	4s31	1s12	0s39	3n30	1n19	3n55	0n54	22n34	0s10	22n17	1s 4	1n41	0s46	8s55

Julian Day Number = 2517135.5, Delta T = 144.34 sec
 Ecliptic obliquity = 23°24'54, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°14'59, Lahiri = 26°22'00

ASTRODIENST EPHEMERIS for the year 2179
geocentric

SEPTEMBER 2179

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 30	8 ^h 36'00	29 ^h 36	2 ^h 52	25 ^h 27	22 ^h 50	13 ^h 53	4 ^h 13	5 ^h R58	8 ^h R56	25 ^h 2	10 ^h R19	10 ^h 7	13 ^h Y54	17 ^h R10	W 1
T 2	22 44 26	9 ^h 34'01	14 ^h 35	4 ^h 13	26 ^h 41	23 ^h 28	13 ^h 53	4 ^h 18	5 ^h Y55	8 ^h Y55	25 ^h 3	10 ^h 7	10 ^h 6	14 ^h 1	17 ^h 8	T 2
F 3	22 48 23	10 ^h 32'03	29 ^h 40	5 ^h 32	27 ^h 55	24 ^h 6	14 ^h 4	4 ^h 22	5 ^h 53	8 ^h 53	25 ^h 5	9 ^h 57	10 ^h 3	14 ^h 7	17 ^h 8	F 3
S 4	22 52 20	11 ^h 30'06	14 ^h 44	6 ^h 50	29 ^h 9	24 ^h 45	14 ^h 14	4 ^h 27	5 ^h 51	8 ^h 52	25 ^h 6	9 ^h 48	9 ^h 59	14 ^h 14	17 ^h 8	S 4
S 5	22 56 16	12 ^h 28'11	29 ^h 35	8 ^h 5	0 ^h 23	25 ^h 23	14 ^h 24	4 ^h 31	5 ^h 49	8 ^h 50	25 ^h 7	9 ^h 41	9 ^h 56	14 ^h 21	17 ^h 7	S 5
M 6	23 0 13	13 ^h 26'17	14 ^h 8	9 ^h 20	1 ^h 37	26 ^h 2	14 ^h 34	4 ^h 36	5 ^h 47	8 ^h 48	25 ^h 8	9 ^h 38	9 ^h 53	14 ^h 27	17 ^h 6	M 6
T 7	23 4 9	14 ^h 24'25	28 ^h 19	10 ^h 32	2 ^h 50	26 ^h 40	14 ^h 44	4 ^h 40	5 ^h 45	8 ^h 47	25 ^h 9	9 ^h 36	9 ^h 50	14 ^h 34	17 ^h 5	T 7
W 8	23 8 6	15 ^h 22'35	12 ^h 8	11 ^h 42	4 ^h 4	27 ^h 19	14 ^h 53	4 ^h 44	5 ^h 43	8 ^h 45	25 ^h 10	9 ^h 36	9 ^h 47	14 ^h 41	17 ^h 4	W 8
T 9	23 12 2	16 ^h 20'45	25 ^h 35	12 ^h 51	5 ^h 18	27 ^h 57	15 ^h 3	4 ^h 48	5 ^h 40	8 ^h 43	25 ^h 11	9 ^h 36	9 ^h 44	14 ^h 47	17 ^h 3	T 9
F 10	23 15 59	17 ^h 18'57	8 ^h 32	13 ^h 57	6 ^h 32	28 ^h 36	15 ^h 13	4 ^h 52	5 ^h 38	8 ^h 42	25 ^h 13	9 ^h 34	9 ^h 40	14 ^h 54	17 ^h 2	F 10
S 11	23 19 55	18 ^h 17'11	21 ^h 34	15 ^h 1	7 ^h 46	29 ^h 14	15 ^h 22	4 ^h 56	5 ^h 36	8 ^h 40	25 ^h 14	9 ^h 31	9 ^h 37	15 ^h 1	17 ^h 1	S 11
S 12	23 23 52	19 ^h 15'26	4 ^h 11	16 ^h 3	9 ^h 0	29 ^h 53	15 ^h 31	5 ^h 0	5 ^h 34	8 ^h 38	25 ^h 15	9 ^h 25	9 ^h 34	15 ^h 8	17 ^h 0	S 12
M13	23 27 49	20 ^h 13'42	16 ^h 38	17 ^h 2	10 ^h 14	0 ^h 31	15 ^h 41	5 ^h 4	5 ^h 31	8 ^h 37	25 ^h 16	9 ^h 16	9 ^h 31	15 ^h 14	16 ^h 58	M13
T 14	23 31 45	21 ^h 12'01	28 ^h 55	17 ^h 58	11 ^h 28	1 ^h 10	15 ^h 50	5 ^h 8	5 ^h 29	8 ^h 35	25 ^h 17	9 ^h 4	9 ^h 28	15 ^h 21	16 ^h 57	T 14
W15	23 35 42	22 ^h 10'20	11 ^h 4	18 ^h 52	12 ^h 42	1 ^h 49	15 ^h 58	5 ^h 11	5 ^h 27	8 ^h 34	25 ^h 18	8 ^h 51	9 ^h 25	15 ^h 28	16 ^h 56	W15
T 16	23 39 38	23 ^h 8'42	23 ^h 6	19 ^h 43	13 ^h 56	2 ^h 28	16 ^h 7	5 ^h 15	5 ^h 24	8 ^h 32	25 ^h 19	8 ^h 37	9 ^h 21	15 ^h 34	16 ^h 54	T 16
F 17	23 43 35	24 ^h 7'05	5 ^h Y 3	20 ^h 30	15 ^h 9	3 ^h 6	16 ^h 16	5 ^h 18	5 ^h 22	8 ^h 30	25 ^h 19	8 ^h 25	9 ^h 18	15 ^h 41	16 ^h 53	F 17
S 18	23 47 31	25 ^h 5'31	16 ^h 55	21 ^h 15	16 ^h 23	3 ^h 45	16 ^h 25	5 ^h 21	5 ^h 20	8 ^h 29	25 ^h 20	8 ^h 14	9 ^h 15	15 ^h 48	16 ^h 51	S 18
S 19	23 51 28	26 ^h 3'58	28 ^h 44	21 ^h 55	17 ^h 37	4 ^h 24	16 ^h 33	5 ^h 25	5 ^h 17	8 ^h 27	25 ^h 21	8 ^h 5	9 ^h 12	15 ^h 54	16 ^h 50	S 19
M20	23 55 24	27 ^h 2'27	10 ^h 34	22 ^h 31	18 ^h 51	5 ^h 3	16 ^h 41	5 ^h 28	5 ^h 15	8 ^h 26	25 ^h 22	7 ^h 59	9 ^h 9	16 ^h 1	16 ^h 48	M20
T 21	23 59 21	28 ^h 0'59	22 ^h 26	23 ^h 3	20 ^h 5	5 ^h 42	16 ^h 50	5 ^h 31	5 ^h 13	8 ^h 24	25 ^h 23	7 ^h 56	9 ^h 5	16 ^h 8	16 ^h 46	T 21
W22	0 3 17	28 ^h 59'33	4 ^h 26	23 ^h 30	21 ^h 19	6 ^h 20	16 ^h 58	5 ^h 34	5 ^h 10	8 ^h 23	25 ^h 24	7 ^h D54	9 ^h 2	16 ^h 14	16 ^h 45	W22
T 23	0 7 14	29 ^h 58'08	16 ^h 37	23 ^h 53	22 ^h 33	6 ^h 59	17 ^h 6	5 ^h 36	5 ^h 8	8 ^h 21	25 ^h 25	7 ^h 55	8 ^h 59	16 ^h 21	16 ^h 43	T 23
F 24	0 11 11	0 ^h 56'46	29 ^h 5	24 ^h 10	23 ^h 46	7 ^h 38	17 ^h 13	5 ^h 39	5 ^h 5	8 ^h 20	25 ^h 25	7 ^h R55	8 ^h 56	16 ^h 28	16 ^h 41	F 24
S 25	0 15 7	1 ^h 55'27	11 ^h 54	24 ^h 21	25 ^h 0	8 ^h 17	17 ^h 21	5 ^h 42	5 ^h 3	8 ^h 18	25 ^h 26	7 ^h 55	8 ^h 53	16 ^h 35	16 ^h 39	S 25
S 26	0 19 4	2 ^h 54'09	25 ^h 10	24 ^h R26	26 ^h 14	8 ^h 56	17 ^h 28	5 ^h 44	5 ^h 1	8 ^h 17	25 ^h 27	7 ^h 52	8 ^h 50	16 ^h 41	16 ^h 37	S 26
M27	0 23 0	3 ^h 52'54	8 ^h 54	24 ^h 25	27 ^h 28	9 ^h 35	17 ^h 36	5 ^h 47	4 ^h 58	8 ^h 15	25 ^h 28	7 ^h 48	8 ^h 46	16 ^h 48	16 ^h 35	M27
T 28	0 26 57	4 ^h 51'40	23 ^h 9	24 ^h 16	28 ^h 42	10 ^h 14	17 ^h 43	5 ^h 49	4 ^h 56	8 ^h 14	25 ^h 28	7 ^h 41	8 ^h 43	16 ^h 55	16 ^h 33	T 28
W29	0 30 53	5 ^h 50'29	7 ^h 50	24 ^h 1	29 ^h 55	10 ^h 54	17 ^h 50	5 ^h 51	4 ^h 53	8 ^h 13	25 ^h 29	7 ^h 33	8 ^h 40	17 ^h 1	16 ^h 31	W29
T 30	0 34 50	6 ^h 49'20	22 ^h 54	23 ^h 38	1 ^h 9	11 ^h 33	17 ^h 57	5 ^h 53	4 ^h Y51	8 ^h Y11	25 ^h 30	7 ^h Y23	8 ^h Y37	17 ^h Y8	16 ^h Y29	T 30

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	8n20	6n59	4s55	1s52	0s48	3n 0	1n17	3n40	0n53	22n33	0s10	22n17	1 s 4	1n40	0s46	8s55	0s46	21n30	0n24	21s58	21s57	9n25	15n26	1 s35			
T 2	7 58	1 28	4 59	2 33	0 57	2 29	1 16	3 24	0 53	22 32	0 10	22 17	1 4	1 39	0 46	8 56	0 46	21 30	0 24	21 57	21 56	9 27	15 25	1 35			
F 3	7 37	4s12	4 43	3 12	1 6	1 59	1 15	3 9	0 53	22 31	0 10	22 16	1 4	1 38	0 46	8 57	0 46	21 30	0 24	21 55	21 56	9 30	15 25	1 35			
S 4	7 15	9 36	4 7	3 51	1 15	1 28	1 14	2 53	0 52	22 30	0 9	22 16	1 4	1 37	0 46	8 57	0 46	21 30	0 24	21 54	21 56	9 32	15 25	1 35			
S 5	6 52	14 21	3 14	4 29	1 24	0 57	1 12	2 37	0 52	22 29	0 9	22 16	1 4	1 36	0 46	8 58	0 46	21 29	0 24	21 53	21 55	9 34	15 24	1 35			
M 6	6 30	18 8	2 10	5 7	1 32	0 27	1 11	2 22	0 51	22 28	0 9	22 16	1 4	1 36	0 46	8 59	0 46	21 29	0 25	21 52	21 55	9 36	15 24	1 35			
T 7	6 8	20 44	0 59	5 43	1 41	0s 4	1 9	2 6	0 51	22 27	0 9	22 16	1 4	1 35	0 46	8 59	0 46	21 29	0 25	21 52	21 54	9 38	15 23	1 36			
W 8	5 45	22 0	0n13	6 19	1 50	0 35	1 8	1 50	0 51	22 26	0 9	22 15	1 4	1 34	0 46	9 0	0 46	21 29	0 25	21 52	21 54	9 40	15 23	1 36			
T 9	5 23	21 57	1 23	6 54	1 59	1 5	1 6	1 35	0 50	22 25	0 9	22 15	1 4	1 33	0 46	9 0	0 46	21 29	0 25	21 52	21 53	9 42	15 22	1 36			
F 10	5 0	20 41	2 27	7 28	2 8	1 36	1 5	1 19	0 50	22 24	0 9	22 15	1 4	1 32	0 46	9 1	0 46	21 29	0 25	21 52	21 53	9 45	15 22	1 36			
S 11	4 38	18 21	3 22	8 0	2 16	2 7	1 3	1 3	0 49	22 23	0 9	22 15	1 4	1 31	0 46	9 2	0 46	21 29	0 25	21 51	21 52	9 47	15 22	1 36			
S 12	4 15	15 12	4 6	8 32	2 25	2 38	1 1	0 48	0 49	22 22	0 9	22 15	1 4	1 30	0 46	9 2	0 46	21 29	0 25	21 50	21 52	9 49	15 21	1 37			
M13	3 52	11 25	4 38	9 3	2 33	3 8	0 59	0 32	0 48	22 21	0 9	22 15	1 5	1 29	0 46	9 3	0 46	21 28	0 25	21 49	21 51	9 51	15 21	1 37			
T 14	3 29	7 13	4 56	9 32	2 41	3 39	0 58	0 16	0 48	22 20	0 9	22 14	1 5	1 28	0 46	9 4	0 46	21 28	0 25	21 47	21 51	9 53	15 20	1 37			
W15	3 6	2 46	5 0	10 0	2 49	4 9	0 56	0 0	0 48	22 19	0 9	22 14	1 5	1 27	0 46	9 4	0 46	21 28	0 25	21 45	21 50	9 55	15 19	1 37			
T 16	2 43	1n43	4 51	10 26	2 57	4 40	0 54	0s15	0 47	22 18	0 8	22 14	1 5	1 27	0 46	9 5	0 46	21 28	0 25	21 43	21 50	9 57	15 19	1 37			
F 17	2 20	6 7	4 29	10 51	3 5	5 10	0 52	0 31	0 47	22 17	0 8	22 14	1 5	1 26	0 46	9 5	0 46	21 28	0 25	21 41	21 49	9 59	15 18	1 37			
S 18	1 57	10 16	3 56	11 14	3 12	5 41	0 49	0 47	0 46	22 16	0 8	22 14	1 5	1 25	0 46	9 6	0 46	21 28	0 25	21 39	21 49	10 2	15 18	1 38			
S 19	1 34	14 0	3 12	11 36	3 18	6 11	0 47	1 3	0 46	22 15	0 8	22 14	1 5	1 24	0 46	9 6	0 46	21 28	0 25	21 38	21 48	10 4	15 17	1 38			
M20	1 11	17 11	2 20	11 55	3 25	6 41	0 45	1 18	0 45	22 14	0 8	22 14	1 5	1 23	0 46	9 7	0 46	21 28	0 26	21 37	21 48	10 6	15 17	1 38			
T 21	0 47	19 40	1 21	12 13	3 31	7 11	0 43	1 34	0 45	22 13	0 8	22 13	1 5	1 22	0 46	9 8	0 46	21 28	0 26	21 37	21 47	10 8	15 16	1 38			
W22	0 24	21 19	0 19	12 28	3 36	7 41	0 41	1 50	0 45	22 13	0 8	22 13	1 5	1 21	0 46	9 8	0 46	21 28	0 26	21 36	21 47	10 10	15 15	1 38			
T 23	0 1	21 59	0s46	12 40	3 40	8 10	0 38	2 6	0 44	22 12	0 8	22 13	1 5	1 20	0 46	9 9	0 46	21 27	0 26	21 36	21 46	10 12	15 15	1 38			
F 24	0s23	21 34	1 50	12 50	3 44	8 40	0 36	2 22	0 44	22 11	0 8	22 13	1 5	1 19	0 46	9 9	0 46	21 27	0 26	21 36	21 46	10 14	15 14	1 39			
S 25	0 46	20 3	2 51	12 57	3 47	9 9	0 34	2 37	0 43	22 10	0 8	22 13	1 5	1 18	0 46	9 10	0 46	21 27	0 26	21 36	21 46	10 16	15 13	1 39			
S 26	1 9	17 24	3 44	13 1	3 49	9 38	0 31	2 53	0 43	22 9	0 8	22 13	1 5	1 17	0 46	9 10	0 46	21 27	0 26	21 36	21 45	10 18	15 13	1 39			
M27	1 32	13 43	4 27	13 1	3 51	10 7	0 29	3 9	0 42	22 8	0 7	22 12	1 5	1 16	0 46	9 11	0 46	21 27	0 26	21 35	21 45	10 20	15 12	1 39			
T 28	1 56	9 9	4 55	12 58	3 50	10 35	0 26	3 25	0 42	22 7	0 7	22 12	1 5	1 15	0 46	9 11	0 46	21 27	0 26	21 34	21 44	10 22	15 11	1 39			
W29	2 19	9 35	5 4	12 51	3 49	11 4	0 24	3 40	0 41	22 6	0 7	22 12	1 5	1 14	0 46	9 12	0 46	21 27	0 26	21 33	21 44	10 25	15 10	1 39			
T 30	2s42	1s40	4s53	12s40	3s46	11s32	0n21	3s56	0n41	22n 6	0s 7	22n12	1s 5	1n13	0s46	9s13	0s46	21n27	0n26	21s31	21s43	10n27	15n10	1s39			

ASTRODIENST EPHEMERIS for the year 2179

geocentric

OCTOBER 2179

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 38 46	7 ^h 48 ^m 14 ^s	8 ^h 09 ^m	23°R 8	2 ^m 23	12 ^h 12	18 ^h 04	5 ^h 55	4°R48	8°R10	25 ^h 30	7°R15	8 ^h 34	17 ^h 15	16°R27	F 1
S 2	0 42 43	8°47'09	23°26	22 ^h 31	3°37	12°51	18°10	5°57	4°Y46	8°Y8	25°31	7°Y7	8°30	17°21	16°Y25	S 2
S 3	0 46 40	9°46'06	8 ^m 33	21°46	4°50	13°30	18°17	5°59	4°44	8°7	25°32	7°2	8°27	17°28	16°23	S 3
M 4	0 50 36	10°45'05	23°21	20°54	6°4	14°10	18°23	6°0	4°41	8°6	25°32	6°59	8°24	17°35	16°21	M 4
T 5	0 54 33	11°44'06	7 ^h 46	19°57	7°18	14°49	18°29	6°2	4°39	8°4	25°33	6°D58	8°21	17°41	16°18	T 5
W 6	0 58 29	12°43'08	21°44	18°54	8°32	15°28	18°35	6°3	4°36	8°3	25°33	6°59	8°18	17°48	16°16	W 6
T 7	1 2 26	13°42'13	5 ^h 316	17°47	9°45	16°8	18°41	6°5	4°34	8°2	25°34	7°0	8°15	17°55	16°14	T 7
F 8	1 6 22	14°41'19	18°24	16°38	10°59	16°47	18°47	6°6	4°32	8°1	25°34	7°R0	8°11	18°2	16°11	F 8
S 9	1 10 19	15°40'27	1 ^h 212	15°28	12°13	17°27	18°53	6°7	4°29	7°59	25°35	6°58	8°8	18°8	16°9	S 9
S 10	1 14 15	16°39'36	13°42	14°19	13°27	18°6	18°58	6°8	4°27	7°58	25°35	6°55	8°5	18°15	16°6	S 10
M 11	1 18 12	17°38'47	25°59	13°14	14°40	18°46	19°3	6°9	4°25	7°57	25°36	6°49	8°2	18°22	16°4	M 11
T 12	1 22 9	18°38'01	8 ^h Y7	12°13	15°54	19°25	19°8	6°10	4°22	7°56	25°36	6°42	7°59	18°28	16°1	T 12
W 13	1 26 5	19°37'15	20°7	11°20	17°7	20°5	19°13	6°11	4°20	7°55	25°36	6°33	7°56	18°35	15°59	W 13
T 14	1 30 2	20°36'32	2°Y2	10°34	18°21	20°44	19°18	6°11	4°18	7°54	25°37	6°24	7°52	18°42	15°56	T 14
F 15	1 33 58	21°35'51	13°54	9°58	19°35	21°24	19°22	6°12	4°15	7°52	25°37	6°15	7°49	18°48	15°53	F 15
S 16	1 37 55	22°35'12	25°44	9°32	20°48	22°4	19°26	6°12	4°13	7°51	25°37	6°8	7°46	18°55	15°51	S 16
S 17	1 41 51	23°34'35	7 ^h Y35	9°16	22°2	22°43	19°31	6°12	4°11	7°50	25°37	6°2	7°43	19°2	15°48	S 17
M 18	1 45 48	24°34'00	19°28	9°D12	23°15	23°23	19°35	6°12	4°9	7°49	25°38	5°59	7°40	19°8	15°45	M 18
T 19	1 49 44	25°33'27	1 ^h Y26	9°19	24°29	24°3	19°38	6°R12	4°7	7°48	25°38	5°D57	7°36	19°15	15°42	T 19
W 20	1 53 41	26°32'56	13°30	9°37	25°42	24°43	19°42	6°12	4°4	7°47	25°38	5°57	7°33	19°22	15°40	W 20
T 21	1 57 37	27°32'28	25°46	10°4	26°56	25°23	19°46	6°12	4°2	7°46	25°38	5°59	7°30	19°29	15°37	T 21
F 22	2 1 34	28°32'02	8 ^h Y16	10°41	28°10	26°3	19°49	6°12	4°0	7°46	25°38	6°0	7°27	19°35	15°34	F 22
S 23	2 5 31	29°31'38	21°4	11°27	29°23	26°43	19°52	6°11	3°58	7°45	25°38	6°2	7°24	19°42	15°31	S 23
S 24	2 9 27	0 ^h Y31'16	4 ^h Y15	12°20	0 ^h Y37	27°23	19°55	6°11	3°56	7°44	25°39	6°R2	7°21	19°49	15°28	S 24
M 25	2 13 24	1°30'57	17°50	13°21	1°50	28°3	19°57	6°10	3°54	7°43	25°39	6°1	7°17	19°55	15°25	M 25
T 26	2 17 20	2°30'40	1 ^h Y53	14°28	3°3	28°43	20°0	6°9	3°52	7°42	25°39	5°58	7°14	20°2	15°23	T 26
W 27	2 21 17	3°30'25	16°22	15°41	4°17	29°23	20°2	6°8	3°50	7°41	25°39	5°54	7°11	20°9	15°20	W 27
T 28	2 25 13	4°30'12	1 ^h Y13	16°58	5°30	0 ^h Y3	20°4	6°7	3°48	7°41	25°39	5°50	7°8	20°15	15°17	T 28
F 29	2 29 10	5°30'01	16°20	18°19	6°44	0°43	20°6	6°6	3°46	7°40	25°39	5°45	7°5	20°22	15°14	F 29
S 30	2 33 6	6°29'53	1 ^h Y33	19°43	7°57	1°23	20°8	6°5	3°44	7°39	25°38	5°41	7°2	20°29	15°11	S 30
S 31	2 37 3	7 ^m 29'46	16 ^m 43	21 ^h Y11	9 ^h Y11	2 ^m 3	20 ^h Y10	6 ^h Y4	3°Y42	7°Y39	25°Y38	5°Y39	6°Y58	20°Y35	15°Y8	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3s 6	7s14	4s22	12s25	3s42	12s 0	0n18	4s12	0n41	22n 5	0s 7	22n12	1s 5	1n12	0s46	F 1
S 2	3 29	12 21	3 31	12 5	3 36	12 28	0 16	4 27	0 40	22 4	0 7	22 12	1 5	1 11	0 46	S 2
S 3	3 52	16 39	2 26	11 41	3 28	12 55	0 13	4 43	0 40	22 3	0 7	22 12	1 5	1 10	0 46	S 3
M 4	4 15	19 46	1 12	11 13	3 18	13 22	0 10	4 59	0 39	22 2	0 7	22 12	1 5	1 9	0 46	M 4
T 5	4 38	21 31	0n 4	10 40	3 7	13 49	0 8	5 14	0 39	22 2	0 7	22 12	1 5	1 9	0 46	T 5
W 6	5 1	21 51	1 19	10 4	2 53	14 15	0 5	5 30	0 38	22 1	0 7	22 11	1 5	1 8	0 46	W 6
T 7	5 24	20 53	2 26	9 24	2 38	14 41	0 2	5 45	0 38	22 0	0 7	22 11	1 5	1 7	0 46	T 7
F 8	5 47	18 47	3 24	8 42	2 21	15 7	0s 1	6 1	0 37	22 0	0 6	22 11	1 5	1 6	0 46	F 8
S 9	6 10	15 49	4 10	7 58	2 3	15 32	0 3	6 16	0 37	21 59	0 6	22 11	1 5	1 5	0 46	S 9
S 10	6 33	12 11	4 43	7 14	1 43	15 57	0 6	6 32	0 36	21 58	0 6	22 11	1 5	1 4	0 46	S 10
M 11	6 55	8 6	5 2	6 30	1 23	16 22	0 9	6 47	0 36	21 58	0 6	22 11	1 5	1 3	0 46	M 11
T 12	7 18	3 46	5 7	5 47	1 3	16 46	0 12	7 3	0 35	21 57	0 6	22 11	1 5	1 2	0 46	T 12
W 13	7 40	0n40	4 59	5 7	0 42	17 10	0 15	7 18	0 35	21 56	0 6	22 11	1 5	1 1	0 46	W 13
T 14	8 2	5 3	4 37	4 31	0 22	17 33	0 18	7 33	0 34	21 56	0 6	22 11	1 5	1 0	0 46	T 14
F 15	8 25	9 14	4 4	3 59	0 2	17 56	0 20	7 49	0 34	21 55	0 6	22 11	1 5	0 59	0 46	F 15
S 16	8 47	13 3	3 20	3 31	0n16	18 19	0 23	8 4	0 34	21 55	0 6	22 11	1 6	0 59	0 46	S 16
S 17	9 9	16 21	2 28	3 10	0 33	18 41	0 26	8 19	0 33	21 54	0 6	22 11	1 6	0 58	0 46	S 17
M 18	9 31	19 0	1 28	2 53	0 49	19 2	0 29	8 34	0 33	21 54	0 5	22 11	1 6	0 57	0 46	M 18
T 19	9 52	20 50	0 25	2 43	1 4	19 23	0 32	8 49	0 32	21 53	0 5	22 11	1 6	0 56	0 46	T 19
W 20	10 14	21 43	0s41	2 38	1 17	19 44	0 35	9 4	0 32	21 53	0 5	22 11	1 6	0 55	0 46	W 20
T 21	10 35	21 35	1 46	2 38	1 28	20 4	0 38	9 19	0 31	21 53	0 5	22 11	1 6	0 54	0 46	T 21
F 22	10 57	20 23	2 47	2 44	1 37	20 23	0 40	9 34	0 31	21 52	0 5	22 11	1 6	0 53	0 46	F 22
S 23	11 18	18 7	3 41	2 54	1 45	20 42	0 43	9 49	0 30	21 52	0 5	22 11	1 6	0 53	0 46	S 23
S 24	11 39	14 52	4 26	3 9	1 52	21 1	0 46	10 4	0 30	21 52	0 5	22 11	1 6	0 52	0 46	S 24
M 25	11 59	10 45	4 57	3 28	1 57	21 18	0 49	10 19	0 29	21 51	0 5	22 11	1 6	0 51	0 46	M 25
T 26	12 20	5 56	5 12	3 50	2 1	21 36	0 52	10 34	0 29	21 51	0 5	22 11	1 6	0 50	0 46	T 26
W 27	12 40	0 39	5 7	4 15	2 4	21 52	0 55	10 48	0 28	21 51	0 5	22 11	1 6	0 49	0 46	W 27
T 28	13 1	4s48	4 43	4 43	2 5	22 8	0 57	11 3	0 28	21 51	0 4	22 11	1 6	0 49	0 46	T 28
F 29	13 21	10 5	3 58	5 14	2 6	22 24	1 0	11 17	0 27	21 50	0 4	22 11	1 6	0 48	0 46	F 29
S 30	13 40	14 45	2 56	5 46	2 6	22 39	1 3	11 32	0 27	21 50	0 4	22 11	1 6	0 47	0 45	S 30
S 31	14s 0	18s27	1s42	6s20	2n 4	22s53	1s 6	11s46	0n26	21n50	0s 4	22n11	1s 6	0n46	0s45	S 31

Julian Day Number = 2517196.5, Delta T = 144.49 sec
 Ecliptic obliquity = 23°24'55, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°15'08, Lahiri = 26°22'08

ASTRODIENST EPHEMERIS for the year 2179

geocentric

DECEMBER 2179

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	4 39 16	8°40'20	8°18	10°40	16°54	23°10	19°19	4°R34	3°R 3	7°35	25°R24	5°R29	5°20	24°Y 3	13°R37	W 1
T 2	4 43 13	9°41'06	22° 6	12°14	18° 6	23°51	19°15	4°30	3°Y 2	7°36	25°23	5°28	5°17	24° 9	13°35	T 2
F 3	4 47 9	10°41'53	5°29	13°48	19°19	24°33	19°10	4°26	3° 2	7°36	25°22	5°28	5°14	24°16	13°32	F 3
S 4	4 51 6	11°42'41	18°27	15°22	20°31	25°14	19° 5	4°21	3° 1	7°37	25°21	5°27	5°10	24°23	13°30	S 4
S 5	4 55 3	12°43'31	1° 3	16°56	21°43	25°56	19° 0	4°17	3° 1	7°37	25°20	5°27	5° 7	24°29	13°27	S 5
M 6	4 58 59	13°44'21	13°21	18°30	22°55	26°37	18°54	4°13	3° 0	7°38	25°19	5°D27	5° 4	24°36	13°24	M 6
T 7	5 2 56	14°45'11	25°25	20° 4	24° 8	27°19	18°49	4° 8	3° 0	7°38	25°18	5°27	5° 1	24°43	13°22	T 7
W 8	5 6 52	15°46'03	7°Y 9	21°37	25°20	28° 1	18°43	4° 4	3° 0	7°39	25°18	5°27	4°58	24°49	13°20	W 8
T 9	5 10 49	16°46'55	19° 9	23°11	26°32	28°43	18°37	3°59	3° 0	7°40	25°17	5°28	4°54	24°56	13°17	T 9
F 10	5 14 45	17°47'49	0°59	24°45	27°44	29°24	18°31	3°54	2°59	7°40	25°16	5°30	4°51	25° 3	13°15	F 10
S 11	5 18 42	18°48'43	12°53	26°19	28°56	0°27 6	18°25	3°50	2°59	7°41	25°15	5°31	4°48	25° 9	13°12	S 11
S 12	5 22 38	19°49'38	24°53	27°52	0°28 8	0°48	18°19	3°45	2°D59	7°42	25°14	5°32	4°45	25°16	13°10	S 12
M13	5 26 35	20°50'34	7°II 4	29°26	1°20	1°30	18°12	3°40	2°59	7°43	25°13	5°R32	4°42	25°23	13° 8	M13
T14	5 30 32	21°51'30	19°26	1°30	2°31	2°12	18° 6	3°35	2°59	7°44	25°12	5°32	4°39	25°29	13° 6	T14
W15	5 34 28	22°52'28	2° 1	2°34	3°43	2°54	17°59	3°31	2°59	7°44	25°11	5°30	4°35	25°36	13° 4	W15
T16	5 38 25	23°53'27	14°50	4° 7	4°55	3°36	17°52	3°26	3° 0	7°45	25° 9	5°28	4°32	25°43	13° 2	T16
F17	5 42 21	24°54'26	27°53	5°41	6° 6	4°18	17°46	3°21	3° 0	7°46	25° 8	5°25	4°29	25°49	12°59	F17
S18	5 46 18	25°55'26	11°Q 8	7°15	7°18	5° 0	17°39	3°16	3° 0	7°47	25° 7	5°22	4°26	25°56	12°57	S18
S19	5 50 14	26°56'27	24°37	8°48	8°29	5°42	17°31	3°11	3° 0	7°48	25° 6	5°19	4°23	26° 3	12°55	S19
M20	5 54 11	27°57'29	8°II 7	10°22	9°40	6°24	17°24	3° 6	3° 1	7°49	25° 5	5°17	4°20	26° 9	12°54	M20
T21	5 58 7	28°58'32	22° 9	11°55	10°51	7° 7	17°17	3° 1	3° 1	7°50	25° 4	5°16	4°16	26°16	12°52	T21
W22	6 2 4	29°59'36	6°12	13°28	12° 2	7°49	17° 9	2°56	3° 2	7°51	25° 3	5°D16	4°13	26°23	12°50	W22
T23	6 6 1	1°30'41	20°25	15° 1	13°13	8°31	17° 2	2°51	3° 2	7°52	25° 2	5°16	4°10	26°29	12°48	T23
F24	6 9 57	2° 1'47	4°14	16°34	14°24	9°14	16°54	2°47	3° 3	7°54	25° 0	5°18	4° 7	26°36	12°46	F24
S25	6 13 54	3° 2'54	19° 9	18° 6	15°35	9°56	16°47	2°42	3° 3	7°55	24°59	5°19	4° 4	26°43	12°45	S25
S26	6 17 50	4° 4'01	3°35	19°37	16°46	10°38	16°39	2°37	3° 4	7°56	24°58	5°R20	4° 0	26°49	12°43	S26
M27	6 21 47	5° 5'09	17°57	21° 8	17°57	11°21	16°31	2°32	3° 5	7°57	24°57	5°20	3°57	26°56	12°42	M27
T28	6 25 43	6° 6'17	2°31	22°37	19° 7	12° 3	16°23	2°27	3° 6	7°59	24°56	5°17	3°54	27° 3	12°40	T28
W29	6 29 40	7° 7'26	16°11	24° 6	20°17	12°46	16°15	2°22	3° 6	8° 0	24°54	5°14	3°51	27°10	12°39	W29
T30	6 33 36	8° 8'35	29°54	25°33	21°28	13°29	16° 7	2°17	3° 7	8° 1	24°53	5° 8	3°48	27°16	12°37	T30
F31	6 37 33	9°30'45	13°15	26°35	22°38	14°11	15°59	2°12	3°Y 8	8°3 3	24°52	5°3 3	3°45	27°Y23	12°36	F31

Day	☉	☽	♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
W 1	21s44	20s17	2n53	22s57	0s56	24s26	2s 6	18s24	0n 9	22n 1	0s 0	22n15	1s 6	0n32	0s44	9s25	0s46	21n33	0n31	21s12	21s10	12n29	14n14	1s46	
T 2	21 53	17 48	3 51	23 16	1 2	24 18	2 7	18 35	0 8	22 2	0 0	22 15	1 6	0 32	0 44	9 25	0 46	21 33	0 31	21 12	21 10	12 30	14 13	1 46	
F 3	22 2	14 26	4 35	23 33	1 8	24 8	2 8	18 46	0 8	22 3	0 0	22 15	1 5	0 31	0 44	9 25	0 46	21 33	0 31	21 12	21 9	12 32	14 12	1 46	
S 4	22 10	10 28	5 4	23 50	1 13	23 58	2 9	18 56	0 7	22 4	0n 0	22 15	1 5	0 31	0 44	9 25	0 46	21 33	0 31	21 11	21 8	12 34	14 11	1 46	
S 5	22 18	6 9	5 17	24 5	1 19	23 48	2 9	19 7	0 7	22 4	0 0	22 15	1 5	0 31	0 44	9 24	0 46	21 34	0 31	21 11	21 8	12 36	14 11	1 46	
M 6	22 26	1 42	5 14	24 19	1 24	23 36	2 10	19 17	0 6	22 5	0 0	22 16	1 5	0 31	0 44	9 24	0 46	21 34	0 31	21 11	21 7	12 38	14 10	1 46	
T 7	22 33	2n45	4 59	24 32	1 29	23 24	2 10	19 27	0 5	22 6	0 0	22 16	1 5	0 31	0 44	9 24	0 46	21 34	0 31	21 11	21 7	12 40	14 9	1 46	
W 8	22 39	7 2	4 30	24 43	1 34	23 11	2 11	19 37	0 5	22 7	0 1	22 16	1 5	0 31	0 44	9 24	0 46	21 34	0 31	21 11	21 6	12 42	14 8	1 46	
T 9	22 46	11 2	3 50	24 53	1 39	22 58	2 11	19 47	0 4	22 8	0 1	22 16	1 5	0 31	0 44	9 23	0 45	21 35	0 32	21 12	21 6	12 43	14 8	1 46	
F 10	22 51	14 37	3 0	25 2	1 43	22 44	2 11	19 57	0 4	22 9	0 1	22 16	1 5	0 31	0 44	9 23	0 45	21 35	0 32	21 12	21 5	12 45	14 7	1 46	
S 11	22 57	17 38	2 2	25 9	1 48	22 29	2 11	20 6	0 3	22 10	0 1	22 17	1 5	0 31	0 44	9 23	0 45	21 35	0 32	21 12	21 4	12 47	14 6	1 46	
S 12	23 2	19 55	0 59	25 15	1 52	22 14	2 11	20 15	0 2	22 11	0 1	22 17	1 5	0 31	0 44	9 23	0 45	21 35	0 32	21 12	21 4	12 49	14 5	1 46	
M13	23 6	21 20	0s 8	25 20	1 55	21 58	2 11	20 25	0 2	22 12	0 1	22 17	1 5	0 31	0 44	9 22	0 45	21 36	0 32	21 12	21 3	12 51	14 5	1 46	
T14	23 10	21 44	1 16	25 23	1 59	21 42	2 11	20 34	0 1	22 13	0 1	22 17	1 5	0 31	0 44	9 22	0 45	21 36	0 32	21 12	21 3	12 53	14 4	1 46	
W15	23 13	21 3	2 21	25 25	2 2	21 25	2 10	20 42	0 1	22 14	0 2	22 17	1 5	0 31	0 44	9 22	0 45	21 36	0 32	21 12	21 2	12 54	14 3	1 46	
T16	23 16	19 16	3 20	25 26	2 5	21 7	2 10	20 51	0 0	22 15	0 2	22 18	1 5	0 31	0 44	9 21	0 45	21 36	0 32	21 12	21 2	12 56	14 3	1 46	
F17	23 19	16 29	4 10	25 25	2 7	20 49	2 9	20 59	0s 1	22 16	0 2	22 18	1 5	0 31	0 44	9 21	0 45	21 37	0 32	21 11	21 1	12 58	14 2	1 46	
S18	23 21	12 48	4 47	25 22	2 9	20 30	2 9	21 8	0 1	22 17	0 2	22 18	1 4	0 31	0 44	9 21	0 45	21 37	0 32	21 10	21 0	13 0	14 2	1 46	
S19	23 23	8 26	5 9	25 18	2 11	20 11	2 8	21 16	0 2	22 18	0 2	22 18	1 4	0 32	0 44	9 20	0 45	21 37	0 32	21 10	21 0	13 2	14 1	1 46	
M20	23 24	3 35	5 14	25 13	2 13	19 51	2 7	21 24	0 2	22 19	0 2	22 18	1 4	0 32	0 44	9 20	0 45	21 37	0 32	21 10	20 59	13 3	14 0	1 46	
T21	23 25	1s31	5 1	25 6	2 14	19 31	2 6	21 32	0 3	22 20	0 2	22 19	1 4	0 32	0 44	9 19	0 45	21 38	0 32	21 9	20 59	13 5	14 0	1 46	
W22	23 25	6 36	4 30	24 58	2 14	19 10	2 5	21 39	0 4	22 21	0 3	22 19	1 4	0 32	0 44	9 19	0 45	21 38	0 32	21 9	20 58	13 7	13 59	1 46	
T23	23 25	11 24	3 42	24 48	2 14	18 49	2 4	21 46	0 4	22 23	0 3	22 19	1 4	0 32	0 44	9 18	0 45	21 38	0 33	21 10	20 57	13 9	13 59	1 46	
F24	23 24	15 36	2 40	24 36	2 14	18 27	2 3	21 54	0 5	22 24	0 3	22 19	1 4	0 33	0 43	9 18	0 45	21 39	0 33	21 10	20 57	13 10	13 58	1 46	
S25	23 23	18 54	1 28	24 23	2 13	18 4	2 1	22 1	0 6	22 25	0 3	22 19	1 4	0 33	0 43	9 18	0 45	21 39	0 33	21 10	20 56	13 12	13 58	1 46	
S26	23 21	21 0	0 10	24 9	2 12	17 42	2 0	22 7	0 6	22 26	0 3	22 20	1 4	0 33	0 43	9 17	0 45	21 39	0 33	21 10	20 56	13 14	13 57	1 46	
M27	23 19	21 44	1n 9	23 53	2 10	17 18	1 58	22 14	0 7	22 27	0 3	22 20	1 4	0 34	0 43	9 17	0 45	21 39	0 33	21 10	20 55	13 16	13 57	1 46	
T28	23 16	21 2	2 22	23 36	2 7	16 55	1 56	22 20	0 8	22 28	0 3	22 20	1 4	0 34	0 43	9 16	0 45	21 40	0 33	21 10	20 54	13 18	13 56	1 46	
W29	23 13	19 2	3 25	23 18	2 4	16 31	1	54	22 26	0 8	22 29	0 4	22 20	1 3	0 34	0 43	9 16	0 45	21 40	0 33	21 9	20 54	13 19	13 56	1 46
T30	23 10	16 0	4 15	22 58	2 0	16 6	1 52	22 32	0 9	22 30	0 4	22 20	1 3	0 35	0 43	9 15	0 45	21 40	0 33	21 8	20 53	13 21	13 55	1 46	
F31	23s 6	12s12	4n49	22s37	1s55	15s42	1s50	22s38	0s 9	22n31	0n 4	22n21	1s 3	0n35	0s43	9s15	0s45	21n41	0n33	21s 7	20s53	13n23	13n55	1s46	