



Astrodienst Ephemeris Tables for the year 2197

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 2197
geocentric

JANUARY 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 44 59	11°38'43"	0°11'55"	28°47'48"	3°35'55"	24°21'24"	15°28'28"	26°35'58"	13°28'28"	15°37'34"	19°41'41"	5°32'12"	4°35'51"	29°11'10"	7°14'45"	S 1
M 2	6 48 55	12° 5'45"	13°52'00"	0°35'20"	5°10'10"	25° 7'25"	15°41'15"	27° 5'27"	13°25'13"	15°34'19"	19°40'40"	5°13'40"	4°48'29"	29°17'17"	7°50'50"	M 2
T 3	6 52 52	13° 6'53"	27°11'11"	1°51'01"	6°26'26"	25°51'51"	15°53'53"	27°12'12"	13°23'23"	15°34'34"	19°39'39"	5°13'45"	4°45'29"	29°24'24"	7°56'56"	T 3
W 4	6 56 48	14° 8'00"	10°35'50"	3°24'24"	7°41'41"	26°35'35"	16° 6'16"	27°19'19"	13°21'21"	15°35'35"	19°38'38"	5°13'41"	4°41'29"	29°30'30"	8° 1'11"	W 4
T 5	7 0 45	15° 9'07"	24°47'47"	4°56'56"	8°57'57"	27°19'19"	16°19'19"	27°26'26"	13°19'19"	15°35'35"	19°36'36"	5°13'43"	4°38'29"	29°37'37"	8° 6'16"	T 5
F 6	7 4 41	16°10'15"	8°15'58"	6°29'29"	10°12'12"	28° 3'16"	16°31'31"	27°33'33"	13°17'17"	15°35'35"	19°35'35"	5°12'40"	4°35'29"	29°44'44"	8°11'11"	F 6
S 7	7 8 38	17°11'22"	23°19'19"	8° 2'11"	11°28'28"	28°47'47"	16°44'44"	27°40'40"	13°15'15"	15°36'36"	19°34'34"	5°10'40"	4°32'29"	29°50'50"	8°16'16"	S 7
S 8	7 12 34	18°12'30"	7°10'45"	9°35'35"	12°43'43"	29°32'32"	16°56'56"	27°47'47"	13°13'13"	15°36'36"	19°33'33"	5° 9'42"	4°29'29"	29°57'57"	8°21'21"	S 8
M 9	7 16 31	19°13'38"	22°10'10"	11° 9'13"	13°59'59"	0°16'16"	17° 9'27"	27°54'54"	13°11'11"	15°37'37"	19°32'32"	5° 7'42"	4°26'00"	0°11'11"	8°26'26"	M 9
T 10	7 20 28	20°14'46"	6°15'30"	12°43'43"	15°14'14"	1° 0'17"	17°21'21"	28° 1'13"	13° 9'13"	15°37'37"	19°31'31"	5° 6'42"	4°22'01"	0°11'11"	8°31'31"	T 10
W 11	7 24 24	21°15'54"	20°42'42"	14°18'18"	16°30'30"	1°44'44"	17°33'33"	28° 8'13"	13° 7'15"	15°38'38"	19°29'29"	5°D 6'41"	4°19'01"	0°17'17"	8°36'36"	W 11
T 12	7 28 21	22°17'02"	4°14'44"	15°53'53"	17°45'45"	2°29'29"	17°45'45"	28°15'15"	13° 6'15"	15°38'38"	19°28'28"	5° 6'41"	4°16'02"	0°24'24"	8°40'40"	T 12
F 13	7 32 17	23°18'11"	18°34'34"	17°29'29"	19° 1'31"	3°13'13"	17°58'58"	28°22'22"	13° 4'15"	15°39'39"	19°27'27"	5° 7'41"	4°13'03"	0°31'31"	8°45'45"	F 13
S 14	7 36 14	24°19'19"	2°11'13"	19° 5'20"	20°16'16"	3°57'57"	18°10'10"	28°30'30"	13° 2'15"	15°39'39"	19°26'26"	5° 8'41"	4°10'03"	0°38'38"	8°49'49"	S 14
S 15	7 40 10	25°20'28"	15°39'39"	20°41'41"	21°32'32"	4°42'42"	18°22'22"	28°37'37"	13° 0'15"	15°40'40"	19°24'24"	5°10'40"	4° 6'04"	0°44'44"	8°54'54"	S 15
M 16	7 44 7	26°21'36"	28°53'53"	22°18'18"	22°47'47"	5°26'26"	18°34'34"	28°44'44"	12°59'59"	15°41'41"	19°23'23"	5°R 11'40"	4° 3'05"	0°51'51"	8°58'58"	M 16
T 17	7 48 4	27°22'44"	11°35'55"	23°55'55"	24° 3'6"	6°11'11"	18°46'46"	28°51'51"	12°57'57"	15°42'42"	19°22'22"	5°11'40"	4° 0'05"	0°58'58"	9° 2'17"	T 17
W 18	7 52 0	28°23'52"	24°44'44"	25°33'33"	25°18'18"	6°55'55"	18°58'58"	28°58'58"	12°56'56"	15°42'42"	19°21'21"	5°10'40"	3°57'57"	1° 4'9"	9° 6'18"	W 18
T 19	7 55 57	29°24'59"	7°11'21"	27°11'11"	26°33'33"	7°40'40"	19°10'10"	29° 5'12"	12°54'54"	15°43'43"	19°19'19"	5° 7'35"	3°54'54"	1°11'11"	9°10'10"	T 19
F 20	7 59 53	0°26'06"	19°45'45"	28°50'50"	27°49'49"	8°25'25"	19°21'21"	29°12'12"	12°52'52"	15°44'44"	19°18'18"	5° 3'35"	3°51'51"	1°18'18"	9°14'14"	F 20
S 21	8 3 50	1°27'12"	1°11'59"	0°30'30"	29° 4'9"	9° 9'19"	19°33'33"	29°19'19"	12°51'51"	15°45'45"	19°17'17"	4°59'59"	3°47'47"	1°25'25"	9°17'17"	S 21
S 22	8 7 46	2°28'17"	14° 3'20"	2° 9'00"	0°20'20"	9°54'54"	19°45'45"	29°26'26"	12°50'50"	15°46'46"	19°15'15"	4°54'54"	3°44'44"	1°31'31"	9°21'21"	S 22
M 23	8 11 43	3°29'21"	25°59'59"	3°50'50"	1°35'35"	10°39'39"	19°56'56"	29°34'34"	12°48'48"	15°47'47"	19°14'14"	4°49'49"	3°41'41"	1°38'38"	9°24'24"	M 23
T 24	8 15 39	4°30'25"	7°19'51"	5°31'31"	2°51'51"	11°24'24"	20° 7'20"	29°41'41"	12°47'47"	15°48'48"	19°12'12"	4°45'45"	3°38'38"	1°45'45"	9°28'28"	T 24
W 25	8 19 36	5°31'28"	19°53'53"	7°13'13"	4° 6'12"	12° 8'20"	20°19'19"	29°48'48"	12°46'46"	15°49'49"	19°11'11"	4°42'42"	3°35'35"	1°52'52"	9°31'31"	W 25
T 26	8 23 32	6°32'30"	1°38'38"	8°55'55"	5°22'22"	12°53'53"	20°30'30"	29°55'55"	12°44'44"	15°50'50"	19°10'10"	4°D 41'31"	3°31'31"	1°58'58"	9°34'34"	T 26
F 27	8 27 29	7°33'30"	13°42'42"	10°37'37"	6°37'37"	13°38'38"	20°41'41"	0°22'22"	12°43'43"	15°51'51"	19° 8'44"	4°41'41"	3°28'28"	2° 5'9"	9°37'37"	F 27
S 28	8 31 26	8°34'30"	26° 0'12"	12°21'21"	7°52'52"	14°23'23"	20°52'52"	0° 9'12"	12°42'42"	15°52'52"	19° 7'44"	4°42'42"	3°25'25"	2°12'12"	9°40'40"	S 28
S 29	8 35 22	9°35'29"	8°11'35"	14° 4'9"	9° 8'15"	15° 8'21"	21° 3'01"	0°16'16"	12°41'41"	15°53'53"	19° 6'44"	4°44'44"	3°22'22"	2°18'18"	9°43'43"	S 29
M 30	8 39 19	10°36'27"	21°34'34"	15°49'49"	10°23'23"	15°53'53"	21°14'14"	0°23'23"	12°40'40"	15°54'54"	19° 4'44"	4°45'45"	3°19'19"	2°25'25"	9°46'46"	M 30
T 31	8 43 15	11°37'24"	4°57'57"	17°33'33"	11°38'38"	16°38'38"	21°25'25"	0°30'30"	12°39'39"	15°55'55"	19°13'13"	4°R 46'31"	3°16'16"	2°32'32"	9°14'48"	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	22s57	23n14	2n59	23s52	0s27	23s30	0s 9	23s44	0s26	22s 3	0n35	20s52	0s 8	22n23	0s 0	4n40
M 2	22 52	24 21	1 56	23 59	0 34	23 30	0 11	23 46	0 27	22 4	0 35	20 51	0 8	22 23	0 0	4 40
T 3	22 46	24 7	0 44	24 5	0 41	23 29	0 14	23 48	0 28	22 5	0 35	20 49	0 8	22 23	0 0	4 40
W 4	22 40	22 27	0s31	24 9	0 47	23 27	0 16	23 50	0 28	22 7	0 35	20 48	0 8	22 23	0 0	4 41
T 5	22 33	19 24	1 46	24 12	0 53	23 25	0 18	23 52	0 29	22 8	0 35	20 47	0 8	22 22	0 0	4 41
F 6	22 26	15 10	2 56	24 14	0 59	23 22	0 21	23 53	0 29	22 9	0 35	20 45	0 8	22 22	0 0	4 41
S 7	22 19	10 1	3 56	24 15	1 5	23 18	0 23	23 55	0 30	22 11	0 35	20 44	0 8	22 22	0 0	4 41
S 8	22 11	4 19	4 41	24 14	1 11	23 14	0 25	23 55	0 31	22 12	0 35	20 43	0 8	22 22	0 0	4 41
M 9	22 2	1s37	5 8	24 12	1 16	23 8	0 28	23 56	0 31	22 13	0 35	20 41	0 8	22 21	0 0	4 42
T 10	21 53	7 25	5 16	24 9	1 21	23 2	0 30	23 56	0 32	22 14	0 35	20 40	0 8	22 21	0n 0	4 42
W 11	21 44	12 46	5 4	24 4	1 26	22 56	0 32	23 57	0 32	22 15	0 35	20 39	0 8	22 21	0 0	4 42
T 12	21 34	17 24	4 35	23 58	1 31	22 48	0 34	23 57	0 33	22 17	0 35	20 37	0 8	22 21	0 0	4 42
F 13	21 24	21 1	3 50	23 51	1 35	22 40	0 36	23 56	0 34	22 18	0 35	20 36	0 8	22 21	0 0	4 43
S 14	21 14	23 23	2 52	23 42	1 39	22 31	0 39	23 56	0 34	22 19	0 35	20 35	0 8	22 20	0 0	4 43
S 15	21 3	24 24	1 46	23 32	1 43	22 22	0 41	23 55	0 35	22 20	0 34	20 33	0 9	22 20	0 0	4 43
M 16	20 51	23 59	0 35	23 20	1 47	22 12	0 43	23 54	0 36	22 21	0 34	20 32	0 9	22 20	0 0	4 43
T 17	20 40	22 16	0n37	23 7	1 50	22 1	0 45	23 52	0 36	22 22	0 34	20 31	0 9	22 20	0 0	4 44
W 18	20 28	19 26	1 45	22 52	1 53	21 49	0 47	23 51	0 37	22 23	0 34	20 29	0 9	22 20	0 0	4 44
T 19	20 15	15 43	2 48	22 36	1 56	21 37	0 49	23 49	0 37	22 24	0 34	20 28	0 9	22 19	0 0	4 45
F 20	20 2	11 23	3 41	22 18	1 59	21 24	0 51	23 47	0 38	22 25	0 34	20 26	0 9	22 19	0 0	4 45
S 21	19 49	6 40	4 23	21 59	2 1	21 11	0 53	23 44	0 39	22 26	0 34	20 25	0 9	22 19	0 0	4 45
S 22	19 35	1 46	4 52	21 39	2 2	20 57	0 55	23 42	0 39	22 27	0 34	20 24	0 9	22 19	0 0	4 46
M 23	19 21	3n 8	5 9	21 17	2 4	20 42	0 56	23 39	0 40	22 28	0 34	20 22	0 9	22 19	0 0	4 46
T 24	19 7	7 53	5 12	20 53	2 5	20 27	0 58	23 36	0 40	22 29	0 34	20 21	0 9	22 19	0 0	4 46
W 25	18 52	12 21	5 2	20 28	2 5	20 11	1 0	23 32	0 41	22 29	0 34	20 19	0 9	22 18	0 0	4 47
T 26	18 37	16 23	4 39	20 2	2 6	19 54	1 2	23 29	0 42	22 30	0 34	20 18	0 9	22 18	0 0	4 47
F 27	18 22	19 48	4 3	19 34	2 5	19 37	1 3	23 25	0 42	22 31	0 34	20 16	0 9	22 18	0 0	4 48
S 28	18 6	22 24	3 16	19 4	2 5	19 20	1 5	23 21	0 43	22 32	0 34	20 15	0 9	22 18	0 0	4 48
S 29	17 50	23 59	2 18	18 33	2 3	19 1	1 6	23 16	0 43	22 33	0 34	20 14	0 10	22 18	0 0	4 49
M 30	17 33	24 20	1 11	18 1	2 2	18 43	1 8	23 12	0 44	22 33	0 34	20 12	0 10	22 18	0 0	4 49
T 31	17s17	23n18	0s 1	17s27	2s 0	18s23	1s 9	23s 7	0s45	22s34	0n34	20s11	0s10	22n18	0n 0	4n50

Julian Day Number = 2523498.5, Delta T = 160.10 sec
Ecliptic obliquity = 23°24'49", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°29'36", Lahiri = 26°36'36"

ASTRODIENST EPHEMERIS for the year 2197

geocentric

FEBRUARY 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 47 12	12 ³⁸ 19	18 ⁴⁶	19 ¹⁹	12 ⁵⁴	17 ²³	21 ³⁶	0 ³⁷	12 ^{R38}	15 ⁵⁷	19 ^{R 1}	4 ^{R45}	3 ¹²	2 ³⁹	9 ⁵¹	W 1
T 2	8 51 8	13 ³⁹ 14	3 ¹	21 ⁴	14 ⁹	18 ⁸	21 ⁴⁷	0 ⁴⁴	12 ^{II37}	15 ⁵⁸	19 ⁰	4 ⁴²	3 ⁹	2 ⁴⁵	9 ⁵³	T 2
F 3	8 55 5	14 ⁴⁰ 07	17 ³⁶	22 ⁵⁰	15 ²⁵	18 ⁵⁴	21 ⁵⁷	0 ⁵¹	12 ³⁶	15 ⁵⁹	18 ⁵⁸	4 ³⁸	3 ⁶	2 ⁵²	9 ⁵⁵	F 3
S 4	8 59 2	15 ⁴⁰ 59	2 ²⁶	24 ³⁶	16 ⁴⁰	19 ³⁹	22 ⁸	0 ⁵⁸	12 ³⁶	16 ⁰	18 ⁵⁷	4 ³²	3 ³	2 ⁵⁹	9 ⁵⁷	S 4
S 5	9 2 58	16 ⁴¹ 50	17 ²¹	26 ²²	17 ⁵⁵	20 ²⁴	22 ¹⁸	1 ⁵	12 ³⁵	16 ²	18 ⁵⁶	4 ²⁵	3 ⁰	3 ⁵	9 ⁵⁹	S 5
M 6	9 6 55	17 ⁴² 41	2 ¹³	28 ⁸	19 ¹⁰	21 ⁹	22 ²⁸	1 ¹²	12 ³⁴	16 ³	18 ⁵⁴	4 ¹⁸	2 ⁵⁷	3 ¹²	10 ¹	M 6
T 7	9 10 51	18 ⁴³ 30	16 ⁵⁵	29 ⁵⁴	20 ²⁶	21 ⁵⁴	22 ³⁹	1 ¹⁹	12 ³⁴	16 ⁵	18 ⁵³	4 ¹³	2 ⁵³	3 ¹⁹	10 ³	T 7
W 8	9 14 48	19 ⁴⁴ 19	1 ²⁰	1 ³⁹	21 ⁴¹	22 ⁴⁰	22 ⁴⁹	1 ²⁶	12 ³³	16 ⁶	18 ⁵¹	4 ¹⁰	2 ⁵⁰	3 ²⁶	10 ⁵	W 8
T 9	9 18 44	20 ⁴⁵ 07	15 ²⁶	3 ²³	22 ⁵⁶	23 ²⁵	22 ⁵⁹	1 ³³	12 ³²	16 ⁷	18 ⁵⁰	4 ^{D 8}	2 ⁴⁷	3 ³²	10 ⁶	T 9
F 10	9 22 41	21 ⁴⁵ 54	29 ¹¹	5 ⁷	24 ¹²	24 ¹¹	23 ⁹	1 ³⁹	12 ³²	16 ⁹	18 ⁴⁸	4 ⁸	2 ⁴⁴	3 ³⁹	10 ⁸	F 10
S 11	9 26 37	22 ⁴⁶ 40	12 ³⁶	6 ⁵⁰	25 ²⁷	24 ⁵⁶	23 ¹⁸	1 ⁴⁶	12 ³²	16 ¹⁰	18 ⁴⁷	4 ⁹	2 ⁴¹	3 ⁴⁶	10 ⁹	S 11
S 12	9 30 34	23 ⁴⁷ 25	25 ⁴⁵	8 ³⁰	26 ⁴²	25 ⁴²	23 ²⁸	1 ⁵³	12 ³¹	16 ¹²	18 ⁴⁶	4 ¹⁰	2 ³⁷	3 ⁵³	10 ¹⁰	S 12
M13	9 34 31	24 ⁴⁸ 09	8 ³⁸	10 ⁹	27 ⁵⁷	26 ²⁷	23 ³⁸	2 ⁰	12 ³¹	16 ¹³	18 ⁴⁴	4 ^{R11}	2 ³⁴	3 ⁵⁹	10 ¹¹	M13
T 14	9 38 27	25 ⁴⁸ 52	21 ¹⁸	11 ⁴⁵	29 ¹³	27 ¹³	23 ⁴⁷	2 ⁷	12 ³¹	16 ¹⁵	18 ⁴³	4 ⁹	2 ³¹	4 ⁶	10 ¹²	T 14
W15	9 42 24	26 ⁴⁹ 34	3 ⁴⁸	13 ¹⁸	0 ²⁸	27 ⁵⁸	23 ⁵⁶	2 ¹³	12 ³⁰	16 ¹⁷	18 ⁴¹	4 ⁵	2 ²⁸	4 ¹³	10 ¹³	W15
T 16	9 46 20	27 ⁵⁰ 15	16 ⁸	14 ⁴⁸	1 ⁴³	28 ⁴⁴	24 ⁶	2 ²⁰	12 ³⁰	16 ¹⁸	18 ⁴⁰	3 ⁵⁸	2 ²⁵	4 ¹⁹	10 ¹⁴	T 16
F 17	9 50 17	28 ⁵⁰ 54	28 ²⁰	16 ¹³	2 ⁵⁸	29 ²⁹	24 ¹⁵	2 ²⁷	12 ³⁰	16 ²⁰	18 ³⁹	3 ⁴⁹	2 ²²	4 ²⁶	10 ¹⁴	F 17
S 18	9 54 13	29 ⁵¹ 31	10 ²⁵	17 ³⁴	4 ¹³	0 ¹⁵	24 ²⁴	2 ³³	12 ^{D30}	16 ²²	18 ³⁷	3 ³⁸	2 ¹⁸	4 ³³	10 ¹⁵	S 18
S 19	9 58 10	0 ⁵² 07	22 ²⁴	18 ⁴⁸	5 ²⁹	1 ¹	24 ³³	2 ⁴⁰	12 ³⁰	16 ²³	18 ³⁶	3 ²⁷	2 ¹⁵	4 ⁴⁰	10 ¹⁵	S 19
M20	10 2 6	1 ⁵² 42	4 ¹⁸	19 ⁵⁷	6 ⁴⁴	1 ⁴⁶	24 ⁴¹	2 ⁴⁶	12 ³⁰	16 ²⁵	18 ³⁴	3 ¹⁵	2 ¹²	4 ⁴⁶	10 ¹⁶	M20
T 21	10 6 3	2 ⁵³ 15	16 ¹⁰	20 ⁵⁸	7 ⁵⁹	2 ³²	24 ⁵⁰	2 ⁵³	12 ³⁰	16 ²⁷	18 ³³	3 ⁵	2 ⁹	4 ⁵³	10 ¹⁶	T 21
W22	10 9 59	3 ⁵³ 46	28 ¹	21 ⁵²	9 ¹⁴	3 ¹⁸	24 ⁵⁹	2 ⁵⁹	12 ³⁰	16 ²⁹	18 ³²	2 ⁵⁷	2 ⁶	5 ⁰	10 ^{R16}	W22
T 23	10 13 56	4 ⁵⁴ 15	9 ⁵⁵	22 ³⁷	10 ²⁹	4 ⁴	25 ⁷	3 ⁶	12 ³¹	16 ³⁰	18 ³⁰	2 ⁵¹	2 ³	5 ⁶	10 ¹⁶	T 23
F 24	10 17 53	5 ⁵⁴ 43	21 ⁵⁶	23 ¹⁴	11 ⁴⁴	4 ⁵⁰	25 ¹⁵	3 ¹²	12 ³¹	16 ³²	18 ²⁹	2 ⁴⁸	1 ⁵⁹	5 ¹³	10 ¹⁵	F 24
S 25	10 21 49	6 ⁵⁵ 09	4 ¹¹	23 ⁴¹	12 ⁵⁹	5 ³⁵	25 ²³	3 ¹⁸	12 ³¹	16 ³⁴	18 ²⁷	2 ^{D47}	1 ⁵⁶	5 ²⁰	10 ¹⁵	S 25
S 26	10 25 46	7 ⁵⁵ 33	16 ³⁹	23 ⁵⁹	14 ¹⁴	6 ²¹	25 ³¹	3 ²⁵	12 ³²	16 ³⁶	18 ²⁶	2 ⁴⁷	1 ⁵³	5 ²⁷	10 ¹⁵	S 26
M27	10 29 42	8 ⁵⁵ 55	29 ³¹	24 ^{R 7}	15 ²⁹	7 ⁷	25 ³⁹	3 ³¹	12 ³²	16 ³⁸	18 ²⁵	2 ^{R47}	1 ⁵⁰	5 ³³	10 ¹⁴	M27
T 28	10 33 39	9 ⁵⁶ 15	12 ⁴⁹	24 ⁵	16 ⁴⁴	7 ⁵³	25 ⁴⁷	3 ³⁷	12 ^{II32}	16 ⁴⁰	18 ²³	2 ⁴⁷	1 ⁴⁷	5 ⁴⁰	10 ¹³	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s 0	20n51	1s15	16s52	1s57	18s 3	1s11	23s 2	0s45	22s35	0n34	20s 9	0s10	22n17	0n 0	4n50	1s33	22n34	7n52	23s20	23s22	5n46	14s31	0n15			
T 2	16 43	17 4	2 27	16 15	1 54	17 43	1 12	22 56	0 46	22 35	0 34	20 8	0 10	22 17	0 0	4 51	1 33	22 34	7 52	23 20	23 23	5 49	14 32	0 15			
F 3	16 25	12 11	3 31	15 37	1 50	17 22	1 13	22 51	0 46	22 36	0 34	20 6	0 10	22 17	0 0	4 51	1 33	22 35	7 52	23 20	23 23	5 52	14 32	0 15			
S 4	16 7	6 31	4 22	14 58	1 45	17 1	1 15	22 45	0 47	22 37	0 34	20 5	0 10	22 17	0 0	4 52	1 33	22 36	7 52	23 20	23 23	5 54	14 32	0 16			
S 5	15 49	0 27	4 55	14 17	1 40	16 39	1 16	22 39	0 47	22 37	0 34	20 4	0 10	22 17	0 0	4 52	1 33	22 36	7 52	23 20	23 23	5 57	14 33	0 16			
M 6	15 30	5s36	5 8	13 35	1 35	16 17	1 17	22 33	0 48	22 38	0 34	20 2	0 10	22 17	0 0	4 53	1 33	22 37	7 52	23 21	23 23	6 0	14 33	0 16			
T 7	15 12	11 16	5 1	12 52	1 28	15 54	1 18	22 26	0 49	22 39	0 34	20 1	0 10	22 17	0 0	4 53	1 33	22 37	7 53	23 21	23 23	6 2	14 33	0 17			
W 8	14 53	16 13	4 35	12 8	1 21	15 31	1 19	22 19	0 49	22 39	0 34	19 59	0 10	22 17	0 0	4 54	1 33	22 38	7 53	23 21	23 23	6 5	14 33	0 17			
T 9	14 34	20 9	3 52	11 24	1 13	15 7	1 20	22 12	0 50	22 40	0 34	19 58	0 10	22 17	0 0	4 55	1 33	22 38	7 53	23 21	23 23	6 8	14 33	0 17			
F 10	14 14	22 50	2 57	10 38	1 5	14 43	1 21	22 5	0 50	22 40	0 34	19 56	0 10	22 17	0 0	4 55	1 33	22 39	7 53	23 21	23 23	6 10	14 33	0 18			
S 11	13 55	24 10	1 54	9 51	0 56	14 18	1 22	21 57	0 51	22 41	0 34	19 55	0 11	22 17	0 0	4 56	1 32	22 39	7 53	23 21	23 23	6 13	14 33	0 18			
S 12	13 35	24 6	0 45	9 5	0 46	13 54	1 23	21 50	0 51	22 41	0 34	19 53	0 11	22 17	0 0	4 56	1 32	22 40	7 53	23 21	23 23	6 16	14 34	0 19			
M13	13 14	22 44	0n24	8 18	0 35	13 28	1 23	21 42	0 52	22 42	0 34	19 52	0 11	22 17	0 0	4 57	1 32	22 40	7 53	23 21	23 23	6 18	14 33	0 19			
T 14	12 54	20 14	1 31	7 31	0 24	13 3	1 24	21 33	0 53	22 42	0 34	19 51	0 11	22 17	0 0	4 58	1 32	22 41	7 53	23 21	23 23	6 21	14 33	0 19			
W15	12 33	16 49	2 32	6 44	0 12	12 37	1 24	21 25	0 53	22 42	0 34	19 49	0 11	22 17	0 0	4 58	1 32	22 41	7 53	23 21	23 23	6 24	14 33	0 20			
T 16	12 13	12 43	3 25	5 58	0n 1	12 11	1 25	21 16	0 54	22 43	0 34	19 48	0 11	22 17	0 0	4 59	1 32	22 42	7 53	23 21	23 24	6 26	14 33	0 20			
F 17	11 52	8 9	4 8	5 12	0 15	11 44	1 25	21 7	0 54	22 43	0 34	19 46	0 11	22 17	0 0	5 0	1 32	22 42	7 53	23 22	23 24	6 29	14 33	0 20			
S 18	11 31	3 20	4 40	4 28	0 29	11 17	1 26	20 58	0 55	22 44	0 34	19 45	0 11	22 17	0 0	5 0	1 32	22 43	7 53	23 22	23 24	6 31	14 33	0 21			
S 19	11 9	1n33	4 58	3 46	0 43	10 50	1 26	20 49	0 55	22 44	0 34	19 43	0 11	22 17	0 0	5 1	1 32	22 43	7 53	23 22	23 24	6 34	14 33	0 21			
M20	10 48	6 21	5 4	3 6	0 58	10 22	1 26	20 39	0 56	22 44	0 34	19 42	0 11	22 17	0 0	5 2	1 32	22 44	7 53	23 22	23 24	6 37	14 32	0 22			
T 21	10 26	10 54	4 56	2 27	1 13	9 54	1 27	20 29	0 56	22 45	0 34	19 41	0 11	22 17	0 0	5 2	1 32	22 44	7 53	23 23	23 24	6 39	14 32	0 22			
W22	10 4	15 2	4 36	1 52	1 28	9 26	1 27	20 19	0 57	22 45	0 34	19 39	0 11	22 17	0 0	5 3	1 32	22 45	7 53	23 23	23 24	6 42	14 32	0 22			
T 23	9 42	18 37	4 3	1 20	1 44	8 58	1 27	20 9	0 57	22 45	0 34	19 38	0 11	22 17	0 0	5 4	1 32	22 45	7 53	23 23	23 24	6 45	14 31	0 23			
F 24	9 20	21 27	3 20	0 52	1 59	8 30	1 27	19 59	0 58	22 46	0 34	19 36	0 12	22 17	0 0	5 5	1 32	22 46	7 53	23 23	23 24	6 47	14 31	0 23			
S 25	8 58	23 21	2 26	0 27	2 14	8 1	1 27	19 48	0 59	22 46	0 34	19 35	0 12	22 17	0 0	5 5	1 32	22 46	7 53	23 23	23 24	6 50	14 30	0 24			
S 26	8 35	24 9	1 25	0 7	2 28	7 32	1 27	19 37	0 59	22 46	0 34	19 34	0 12	22 17	0 0	5 6	1 32	22 46	7 53	23 23	23 24	6 52	14 30	0 24			
M27	8 13	23 42	0 17	0n 9	2 42	7 3	1 27	19 26	1 0	22 47	0 34	19 32	0 12	22 17	0 0	5 7	1 32	22 47	7 53	23 23	23 24	6 55	14 29	0 24			
T 28	7s50	21n55	0s53	0n20	2n55	6s33	1s26	19s15	1s 0	22s47	0n34	19s31	0s12	22n17	0n 0	5n 8	1s32	22n47	7n53	23s23	23s24	6n58	14s29	0n25			

ASTRODIENST EPHEMERIS for the year 2197
geocentric

MARCH 2197

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	10 37 35	10°56'33	26°36	23°R53	17°59	8°39	25°54	3°43	12°33	16°41	18°R22	2°R45	1°343	5°47	10°R13	W 1
T 2	10 41 32	11°56'50	10°53	23°31	19°14	9°25	26° 2	3°49	12°34	16°43	18°21	2°340	1°40	5°54	10°12	T 2
F 3	10 45 28	12°57'04	25°37	23° 1	20°29	10°11	26° 9	3°56	12°34	16°45	18°20	2°32	1°37	6° 0	10°11	F 3
S 4	10 49 25	13°57'16	10°41	22°23	21°44	10°57	26°16	4° 2	12°35	16°47	18°18	2°23	1°34	6° 7	10° 9	S 4
S 5	10 53 22	14°57'27	25°56	21°37	22°59	11°43	26°23	4° 8	12°36	16°49	18°17	2°12	1°31	6°14	10° 8	S 5
M 6	10 57 18	15°57'36	11°11	20°46	24°14	12°29	26°30	4°13	12°36	16°51	18°16	2° 2	1°28	6°20	10° 7	M 6
T 7	11 1 15	16°57'43	26°15	19°50	25°29	13°15	26°37	4°19	12°37	16°53	18°15	1°52	1°24	6°27	10° 5	T 7
W 8	11 5 11	17°57'48	11°0	18°51	26°44	14° 1	26°44	4°25	12°38	16°55	18°13	1°45	1°21	6°34	10° 4	W 8
T 9	11 9 8	18°57'53	25°19	17°50	27°59	14°47	26°50	4°31	12°39	16°57	18°12	1°41	1°18	6°41	10° 2	T 9
F 10	11 13 4	19°57'55	9°12	16°48	29°13	15°33	26°56	4°37	12°40	16°59	18°11	1°39	1°15	6°47	10° 0	F 10
S 11	11 17 1	20°57'56	22°38	15°48	0°28	16°20	27° 2	4°42	12°41	17° 2	18°10	1°D39	1°12	6°54	9°59	S 11
S 12	11 20 57	21°57'56	5°41	14°50	1°43	17° 6	27° 8	4°48	12°42	17° 4	18° 9	1°R39	1° 9	7° 1	9°57	S 12
M13	11 24 54	22°57'54	18°25	13°56	2°58	17°52	27°14	4°53	12°44	17° 6	18° 8	1°38	1° 5	7° 8	9°54	M13
T 14	11 28 51	23°57'50	0°54	13° 6	4°12	18°38	27°20	4°59	12°45	17° 8	18° 6	1°35	1° 2	7°14	9°52	T 14
W15	11 32 47	24°57'45	13°10	12°21	5°27	19°24	27°25	5° 4	12°46	17°10	18° 5	1°30	0°59	7°21	9°50	W15
T 16	11 36 44	25°57'37	25°18	11°42	6°42	20°11	27°31	5°10	12°47	17°12	18° 4	1°21	0°56	7°28	9°48	T 16
F 17	11 40 40	26°57'28	7°19	11° 9	7°56	20°57	27°36	5°15	12°49	17°14	18° 3	1° 9	0°53	7°34	9°45	F 17
S 18	11 44 37	27°57'17	19°17	10°42	9°11	21°43	27°41	5°20	12°50	17°16	18° 2	0°55	0°49	7°41	9°42	S 18
S 19	11 48 33	28°57'04	1°10	10°22	10°26	22°29	27°46	5°25	12°52	17°19	18° 1	0°41	0°46	7°48	9°40	S 19
M20	11 52 30	29°56'49	13° 3	10° 8	11°40	23°16	27°50	5°30	12°53	17°21	18° 0	0°26	0°43	7°55	9°37	M20
T 21	11 56 26	0°56'32	24°54	10° 0	12°55	24° 2	27°55	5°35	12°55	17°23	17°59	0°12	0°40	8° 1	9°34	T 21
W22	12 0 23	1°56'13	6°47	9°D59	14° 9	24°48	27°59	5°40	12°56	17°25	17°58	0° 1	0°37	8° 8	9°31	W22
T 23	12 4 20	2°55'52	18°43	10° 3	15°24	25°35	28° 4	5°45	12°58	17°27	17°57	29°53	0°34	8°15	9°28	T 23
F 24	12 8 16	3°55'29	0°46	10°13	16°38	26°21	28° 8	5°50	12°59	17°30	17°56	29°48	0°30	8°21	9°25	F 24
S 25	12 12 13	4°55'04	12°59	10°28	17°53	27° 7	28°11	5°55	13° 1	17°32	17°55	29°45	0°27	8°28	9°22	S 25
S 26	12 16 9	5°54'36	25°27	10°49	19° 7	27°54	28°15	6° 0	13° 3	17°34	17°54	29°44	0°24	8°35	9°18	S 26
M27	12 20 6	6°54'06	8°14	11°14	20°22	28°40	28°18	6° 4	13° 5	17°36	17°54	29°44	0°21	8°42	9°15	M27
T 28	12 24 2	7°53'34	21°24	11°44	21°36	29°26	28°22	6° 9	13° 7	17°39	17°53	29°44	0°18	8°48	9°12	T 28
W29	12 27 59	8°52'59	5°13	12°18	22°51	0°13	28°25	6°13	13° 9	17°41	17°52	29°42	0°14	8°55	9° 8	W29
T 30	12 31 55	9°52'22	19°11	12°57	24° 5	0°59	28°28	6°18	13°11	17°43	17°51	29°37	0°11	9° 2	9° 4	T 30
F 31	12 35 52	10°51'43	3°47	13°39	25°19	1°46	28°31	6°22	13°13	17°45	17°50	29°30	0° 8	9° 9	9°11	F 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
W 1	7s27	18n48	2s 3	0n25	3n 6	6s 4	1s26	19s 3	1 s 1	22s47	0n34	19s30	0s12	22n17	0n 0	5n 8	1s32	22n48	7n53	23s23	23s24	7n 0	14s28	0n25
T 2	7 4	14 29	3 8	0 26	3 17	5 34	1 26	18 52	1 1	22 47	0 34	19 28	0 12	22 17	0 0	5 9	1 32	22 48	7 53	23 23	23 24	7 3	14 27	0 26
F 3	6 41	9 10	4 2	0 22	3 25	5 4	1 25	18 40	1 2	22 47	0 34	19 27	0 12	22 17	0 0	5 10	1 32	22 48	7 53	23 23	23 24	7 6	14 27	0 26
S 4	6 18	3 14	4 40	0 14	3 32	4 34	1 25	18 28	1 2	22 48	0 34	19 26	0 12	22 17	0 0	5 11	1 32	22 49	7 53	23 24	23 24	7 8	14 26	0 26
S 5	5 55	2s58	5 0	0 0	3 37	4 4	1 24	18 15	1 3	22 48	0 34	19 24	0 12	22 17	0 1	5 11	1 32	22 49	7 53	23 24	23 24	7 11	14 25	0 27
M 6	5 32	8 59	4 58	0s17	3 40	3 34	1 24	18 3	1 3	22 48	0 34	19 23	0 12	22 18	0 1	5 12	1 32	22 50	7 53	23 24	23 24	7 13	14 24	0 27
T 7	5 9	14 23	4 35	0 38	3 41	3 4	1 23	17 50	1 4	22 48	0 34	19 22	0 12	22 18	0 1	5 13	1 32	22 50	7 53	23 24	23 24	7 16	14 23	0 28
W 8	4 45	18 49	3 54	1 3	3 39	2 33	1 22	17 38	1 4	22 48	0 34	19 20	0 13	22 18	0 1	5 14	1 32	22 50	7 53	23 24	23 24	7 19	14 23	0 28
T 9	4 22	21 59	3 0	1 30	3 36	2 3	1 21	17 25	1 5	22 48	0 34	19 19	0 13	22 18	0 1	5 15	1 32	22 51	7 53	23 24	23 24	7 21	14 22	0 28
F 10	3 58	23 43	1 56	1 58	3 30	1 32	1 20	17 11	1 5	22 49	0 34	19 18	0 13	22 18	0 1	5 15	1 32	22 51	7 53	23 24	23 24	7 24	14 21	0 29
S 11	3 35	24 0	0 48	2 28	3 23	1 2	1 19	16 58	1 5	22 49	0 34	19 16	0 13	22 18	0 1	5 16	1 32	22 51	7 53	23 24	23 25	7 26	14 20	0 29
S 12	3 11	22 56	0n21	2 59	3 14	0 31	1 18	16 45	1 6	22 49	0 34	19 15	0 13	22 18	0 1	5 17	1 32	22 52	7 53	23 24	23 25	7 29	14 19	0 30
M13	2 47	20 42	1 27	3 30	3 3	0 0	1 17	16 31	1 6	22 49	0 34	19 14	0 13	22 19	0 1	5 18	1 32	22 52	7 53	23 24	23 25	7 31	14 18	0 30
T 14	2 24	17 32	2 28	4 0	2 51	0n30	1 16	16 17	1 7	22 49	0 34	19 13	0 13	22 19	0 1	5 19	1 32	22 52	7 53	23 24	23 25	7 34	14 17	0 30
W15	2 0	13 39	3 20	4 28	2 39	1 1	1 15	16 3	1 7	22 49	0 34	19 12	0 13	22 19	0 1	5 19	1 32	22 53	7 53	23 24	23 25	7 37	14 16	0 31
T 16	1 36	9 15	4 3	4 56	2 25	1 32	1 14	15 49	1 8	22 49	0 34	19 10	0 13	22 19	0 1	5 20	1 32	22 53	7 53	23 24	23 25	7 39	14 14	0 31
F 17	1 12	4 34	4 34	5 22	2 11	2 2	1 13	15 35	1 8	22 49	0 34	19 9	0 13	22 19	0 1	5 21	1 32	22 53	7 53	23 25	23 25	7 42	14 13	0 32
S 18	0 49	0n15	4 53	5 45	1 56	2 33	1 11	15 20	1 9	22 49	0 34	19 8	0 13	22 19	0 1	5 22	1 32	22 53	7 53	23 25	23 25	7 44	14 12	0 32
S 19	0 25	5 2	4 59	6 7	1 41	3 3	1 10	15 5	1 9	22 50	0 34	19 7	0 14	22 20	0 1	5 23	1 32	22 54	7 53	23 25	23 25	7 47	14 11	0 32
M20	0 1	9 38	4 52	6 26	1 26	3 34	1 8	14 51	1 9	22 50	0 34	19 6	0 14	22 20	0 1	5 24	1 32	22 54	7 52	23 25	23 25	7 49	14 10	0 33
T 21	0n22	13 51	4 32	6 43	1 11	4 4	1 7	14 36	1 10	22 50	0 34	19 4	0 14	22 20	0 1	5 24	1 32	22 54	7 52	23 25	23 25	7 52	14 8	0 33
W22	0 46	17 33	4 1	6 57	0 57	4 35	1 5	14 21	1 10	22 50	0 34	19 3	0 14	22 20	0 1	5 25	1 32	22 54	7 52	23 25	23 25	7 55	14 7	0 34
T 23	1 10	20 33	3 18	7 9	0 42	5 5	1 4	14 5	1 11	22 50	0 34	19 2	0 14	22 20	0 1	5 26	1 32	22 55	7 52	23 25	23 25	7 57	14 6	0 34
F 24	1 34	22 41	2 27	7 18	0 28	5 35	1 2	13 50	1 11	22 50	0 34	19 1	0 14	22 21	0 1	5 27	1 32	22 55	7 52	23 25	23 25	8 0	14 4	0 34
S 25	1 57	23 47	1 27	7 25	0 14	6 5	1 0	13 35	1 11	22 50	0 34	19 0	0 14	22 21	0 1	5 28	1 32	22 55	7 52	23 25	23 25	8 2	14 3	0 35
S 26	2 21	23 43	0 23	7 29	0 1	6 35	0 58	13 19	1 12	22 50	0 34	18 59	0 14	22 21	0 1	5 29	1 31	22 55	7 52	23 25	23 25	8 5	14 1	0 35
M27	2 44	22 25	0s45	7 32	0s12	7 4	0 57	13 3	1 12	22 50	0 34	18 58	0 14	22 21	0 1	5 30	1 31	22 55	7 52	23 25	23 25	8 7	14 0	0 36
T 28	3 8	19 52	1 52	7 32	0 24	7 34	0 55	12 47	1 13	22 50	0 34	18 57	0 14	22 22	0 1	5 30	1 31	22 56	7 52	23 25	23 25	8 10	13 58	0 36
W29	3 31	16 9	2 55	7 29	0 36	8 3	0 53	12 31	1 13	22 50	0 34	18 56	0 14	22 22	0 1	5 31	1 31	22 56	7 52	23 25	23 25	8 12	13 57	0 36
T 30	3 54	11 25	3 50	7 25	0 47	8 33	0 51	12 15	1 13	22 50	0 34	18 55	0 15	22 22	0 1	5 32	1 31	22 56	7 52	23 25	23 25	8 15	13 55	0 37
F 31	4n18	5n53	4s31	7s19	0s58	9n 2	0s49	11s59	1s14	22s50	0n34	18s54	0s15	22n22	0n 1	5n33	1s31	22n56	7n51	23s25	23s25	8n17	13s54	0n37

ASTRODIENST EPHEMERIS for the year 2197

geocentric

APRIL 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 39 49	11°51'01	18°47	14°25	26°33	2°32	28°33	6°26	13°15	17°48	17°R50	29°R21	0°5	9°15	8°R57	S 1
S 2	12 43 45	12°50'17	4°4	15°14	27°48	3°18	28°36	6°30	13°17	17°50	17°R49	29°R10	0°2	9°22	8°R53	S 2
M 3	12 47 42	13°49'32	19°26	16°7	29°2	4°5	28°38	6°35	13°19	17°52	17°48	28°59	29°R59	9°29	8°49	M 3
T 4	12 51 38	14°48'44	4°11	17°3	0°16	4°51	28°40	6°39	13°21	17°54	17°47	28°50	29°55	9°35	8°45	T 4
W 5	12 55 35	15°47'54	19°38	18°1	1°30	5°38	28°42	6°42	13°23	17°57	17°47	28°43	29°52	9°42	8°41	W 5
T 6	12 59 31	16°47'03	4°11	19°2	2°44	6°24	28°43	6°46	13°26	17°59	17°46	28°38	29°49	9°49	8°37	T 6
F 7	13 3 28	17°46'10	18°16	20°6	3°58	7°10	28°45	6°50	13°28	18°1	17°46	28°36	29°46	9°56	8°33	F 7
S 8	13 7 24	18°45'15	1°51	21°13	5°12	7°57	28°46	6°54	13°30	18°3	17°45	28°D36	29°43	10°2	8°29	S 8
S 9	13 11 21	19°44'18	14°59	22°22	6°26	8°43	28°47	6°57	13°33	18°6	17°44	28°R36	29°40	10°9	8°25	S 9
M10	13 15 18	20°43'20	27°44	23°33	7°40	9°30	28°48	7°1	13°35	18°8	17°44	28°36	29°36	10°16	8°21	M10
T 11	13 19 14	21°42'19	10°10	24°46	8°54	10°16	28°49	7°4	13°37	18°10	17°43	28°34	29°33	10°22	8°16	T 11
W12	13 23 11	22°41'17	22°22	26°1	10°8	11°2	28°50	7°8	13°40	18°12	17°43	28°30	29°30	10°29	8°12	W12
T 13	13 27 7	23°40'14	4°24	27°19	11°22	11°49	28°50	7°11	13°42	18°15	17°42	28°24	29°27	10°36	8°8	T 13
F 14	13 31 4	24°39'08	16°20	28°38	12°36	12°35	28°R50	7°14	13°45	18°17	17°42	28°15	29°24	10°43	8°3	F 14
S 15	13 35 0	25°38'00	28°13	29°59	13°50	13°22	28°50	7°17	13°48	18°19	17°42	28°4	29°20	10°49	7°59	S 15
S 16	13 38 57	26°36'51	10°4	1°23	15°4	14°8	28°50	7°20	13°50	18°22	17°41	27°52	29°17	10°56	7°54	S 16
M17	13 42 53	27°35'40	21°56	2°48	16°18	14°54	28°50	7°23	13°53	18°24	17°41	27°40	29°14	11°3	7°50	M17
T 18	13 46 50	28°34'27	3°50	4°15	17°31	15°41	28°49	7°26	13°55	18°26	17°41	27°29	29°11	11°9	7°45	T 18
W19	13 50 46	29°33'12	15°49	5°44	18°45	16°27	28°48	7°29	13°58	18°28	17°40	27°20	29°8	11°16	7°41	W19
T 20	13 54 43	0°31'55	27°52	7°14	19°59	17°14	28°47	7°32	14°1	18°30	17°40	27°14	29°5	11°23	7°36	T 20
F 21	13 58 40	1°30'36	10°3	8°46	21°12	18°0	28°46	7°34	14°4	18°33	17°40	27°10	29°1	11°30	7°31	F 21
S 22	14 2 36	2°29'14	22°23	10°20	22°26	18°46	28°45	7°37	14°7	18°35	17°40	27°D8	28°58	11°36	7°27	S 22
S 23	14 6 33	3°27'51	4°57	11°55	23°40	19°32	28°43	7°39	14°9	18°37	17°39	27°8	28°55	11°43	7°22	S 23
M24	14 10 29	4°26'26	17°46	13°33	24°53	20°19	28°42	7°41	14°12	18°39	17°39	27°9	28°52	11°50	7°17	M24
T 25	14 14 26	5°24'58	0°56	15°12	26°7	21°5	28°40	7°43	14°15	18°42	17°39	27°R10	28°49	11°57	7°13	T 25
W26	14 18 22	6°23'28	14°28	16°52	27°20	21°51	28°38	7°46	14°18	18°44	17°39	27°10	28°46	12°3	7°8	W26
T 27	14 22 19	7°21'56	28°25	18°35	28°34	22°38	28°35	7°48	14°21	18°46	17°39	27°8	28°42	12°10	7°3	T 27
F 28	14 26 15	8°20'22	12°48	20°19	29°47	23°24	28°33	7°49	14°24	18°48	17°39	27°4	28°39	12°17	6°59	F 28
S 29	14 30 12	9°18'46	27°32	22°4	1°11	24°10	28°30	7°51	14°27	18°50	17°D39	26°58	28°36	12°23	6°54	S 29
S 30	14 34 9	10°17'07	12°34	23°52	2°11	24°56	28°27	7°53	14°30	18°52	17°R39	26°52	28°R33	12°V30	6°M49	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	4n41	0s 7	4s56	7s11	1s 8	9n30	0s47	11s43	1s14	22s50	0n34	18s53	0s15	22n23	0n 1	5n34	1s31	22n56	7n51	23s25	23s25	8n20	13s52	0n38			
S 2	5 4	6 12	5 0	7 0	1 18	9 59	0 45	11 26	1 14	22 50	0 34	18 52	0 15	22 23	0 1	5 35	1 31	22 56	7 51	23 25	23 25	8 22	13 51	0 38			
M 3	5 27	11 57	4 42	6 48	1 27	10 27	0 43	11 10	1 15	22 50	0 34	18 51	0 15	22 23	0 1	5 36	1 31	22 56	7 51	23 25	23 25	8 25	13 49	0 38			
T 4	5 50	16 54	4 5	6 35	1 35	10 55	0 40	10 53	1 15	22 50	0 34	18 50	0 15	22 23	0 1	5 36	1 31	22 57	7 51	23 25	23 25	8 27	13 47	0 39			
W 5	6 13	20 41	3 11	6 19	1 43	11 23	0 38	10 36	1 15	22 50	0 34	18 49	0 15	22 24	0 1	5 37	1 31	22 57	7 51	23 24	23 25	8 30	13 46	0 39			
T 6	6 35	23 1	2 6	6 2	1 51	11 51	0 36	10 20	1 16	22 50	0 34	18 48	0 15	22 24	0 1	5 38	1 31	22 57	7 51	23 24	23 25	8 32	13 44	0 40			
F 7	6 58	23 48	0 55	5 43	1 58	12 18	0 34	10 3	1 16	22 50	0 34	18 48	0 15	22 24	0 1	5 39	1 31	22 57	7 51	23 24	23 25	8 35	13 42	0 40			
S 8	7 20	23 7	0n17	5 23	2 4	12 45	0 31	9 46	1 16	22 50	0 34	18 47	0 15	22 25	0 1	5 40	1 31	22 57	7 51	23 24	23 25	8 38	13 41	0 40			
S 9	7 43	21 9	1 26	5 1	2 10	13 12	0 29	9 29	1 17	22 50	0 34	18 46	0 16	22 25	0 1	5 41	1 31	22 57	7 50	23 24	23 25	8 40	13 39	0 41			
M10	8 5	18 10	2 28	4 38	2 15	13 38	0 27	9 11	1 17	22 50	0 34	18 45	0 16	22 25	0 1	5 42	1 31	22 57	7 50	23 24	23 25	8 43	13 37	0 41			
T 11	8 27	14 26	3 22	4 13	2 20	14 4	0 24	8 54	1 17	22 50	0 34	18 44	0 16	22 25	0 1	5 42	1 32	22 57	7 50	23 24	23 25	8 45	13 35	0 42			
W12	8 49	10 10	4 5	3 47	2 24	14 30	0 22	8 37	1 17	22 50	0 34	18 44	0 16	22 26	0 1	5 43	1 32	22 57	7 50	23 24	23 25	8 47	13 34	0 42			
T 13	9 11	5 35	4 37	3 19	2 27	14 55	0 19	8 19	1 18	22 50	0 34	18 43	0 16	22 26	0 1	5 44	1 32	22 57	7 50	23 24	23 25	8 50	13 32	0 42			
F 14	9 32	0 50	4 56	2 51	2 31	15 20	0 17	8 2	1 18	22 50	0 34	18 42	0 16	22 26	0 1	5 45	1 32	22 57	7 50	23 24	23 25	8 52	13 30	0 43			
S 15	9 54	3n55	5 3	2 21	2 33	15 45	0 14	7 44	1 18	22 50	0 34	18 41	0 16	22 27	0 1	5 46	1 32	22 57	7 50	23 24	23 25	8 55	13 28	0 43			
S 16	10 15	8 31	4 56	1 49	2 35	16 9	0 12	7 27	1 18	22 50	0 34	18 41	0 16	22 27	0 1	5 47	1 32	22 57	7 50	23 24	23 25	8 57	13 26	0 44			
M17	10 36	12 49	4 37	1 17	2 37	16 33	0 9	7 9	1 19	22 50	0 34	18 40	0 16	22 27	0 1	5 48	1 32	22 57	7 49	23 24	23 25	9 0	13 25	0 44			
T 18	10 57	16 37	4 5	0 43	2 38	16 56	0 7	6 51	1 19	22 50	0 34	18 39	0 16	22 28	0 1	5 48	1 32	22 57	7 49	23 23	23 25	9 2	13 23	0 44			
W19	11 18	19 47	3 22	0 9	2 38	17 19	0 4	6 33	1 19	22 50	0 34	18 39	0 17	22 28	0 1	5 49	1 32	22 57	7 49	23 23	23 25	9 5	13 21	0 45			
T 20	11 39	22 6	2 30	0n27	2 38	17 42	0 1	6 16	1 19	22 50	0 34	18 38	0 17	22 28	0 1	5 50	1 32	22 57	7 49	23 23	23 25	9 7	13 19	0 45			
F 21	11 59	23 25	1 30	1 4	2 37	18 4	0n 1	5 58	1 20	22 50	0 34	18 38	0 17	22 29	0 1	5 51	1 32	22 57	7 49	23 23	23 25	9 10	13 17	0 46			
S 22	12 19	23 37	0 25	1 42	2 36	18 25	0 4	5 40	1 20	22 50	0 34	18 37	0 17	22 29	0 1	5 52	1 32	22 57	7 49	23 23	23 25	9 12	13 15	0 46			
S 23	12 39	22 37	0s42	2 20	2 34	18 46	0 6	5 22	1 20	22 50	0 34	18 37	0 17	22 29	0 1	5 53	1 32	22 57	7 49	23 23	23 25	9 15	13 14	0 46			
M24	12 59	20 26	1 49	3 0	2 32	19 7	0 9	5 4	1 20	22 50	0 34	18 36	0 17	22 30	0 1	5 53	1 32	22 57	7 48	23 23	23 25	9 17	13 12	0 47			
T 25	13 19	17 8	2 51	3 41	2 29	19 27	0 12	4 46	1 20	22 50	0 34	18 36	0 17	22 30	0 1	5 54	1 32	22 57	7 48	23 23	23 24	9 20	13 10	0 47			
W26	13 38	12 51	3 47	4 22	2 26	19 47	0 14	4 28	1 21	22 50	0 34	18 35	0 17	22 30	0 1	5 55	1 32	22 56	7 48	23 23	23 24	9 22	13 8	0 47			
T 27	13 57	7 47	4 30	5 4	2 22	20 6	0 17	4 9	1 21	22 50	0 34	18 35	0 17	22 31	0 1	5 56	1 32	22 56	7 48	23 23	23 24	9 25	13 6	0 48			
F 28	14 16	2 9	4 58	5 48	2 18	20 24	0 20	3 51	1 21	22 50	0 34	18 35	0 18	22 31	0 1	5 57	1 32	22 56	7 48	23 23	23 24	9 27	13 4	0 48			
S 29	14 35	3s44	5 8	6 31	2 13	20 42	0 22	3 33	1 21	22 50	0 34	18 34	0 18	22 32	0 1	5 57	1 32	22 56	7 48	23 23	23 24	9 29	13 2	0 49			
S 30	14n53	9s30	4s56	7n16	2s 8	21n 0	0n25	3s15	1s21	22s50	0n34	18s34	0s18	22n32	0n 1	5n58	1s32	22n56	7n48	23s23	23s24	9n32	13s 1	0n49			

ASTRODIENST EPHEMERIS for the year 2197

geocentric

MAY 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 38 5	11°15'27	27°43	25°41	3°11	25°42	28°R25	7°55	14°11	18°V55	17°Q39	26°R45	28°A30	12°V37	6°R45	M 1
T 2	14 42 2	12°13'45	12°M51	27°32	4°40	26°29	28°A21	7°56	14°36	18°57	17°39	26°A39	28°26	12°44	6°M40	T 2
W 3	14 45 58	13°12'01	27°47	29°24	5°54	27°15	28°18	7°58	14°39	18°59	17°39	26°34	28°23	12°50	6°36	W 3
T 4	14 49 55	14°10'15	12°A22	1°8	7° 7	28° 1	28°15	7°59	14°43	19° 1	17°39	26°31	28°20	12°57	6°31	T 4
F 5	14 53 51	15° 8'28	26°33	3°15	8°20	28°47	28°11	8° 0	14°46	19° 3	17°39	26°D31	28°17	13° 4	6°26	F 5
S 6	14 57 48	16° 6'39	10°3	5°13	9°33	29°33	28° 7	8° 1	14°49	19° 5	17°40	26°31	28°14	13°10	6°22	S 6
S 7	15 1 44	17° 4'49	23°31	7°12	10°46	0°V19	28° 3	8° 2	14°52	19° 7	17°40	26°33	28°11	13°17	6°17	S 7
M 8	15 5 41	18° 2'57	6°A22	9°13	11°59	1° 5	27°59	8° 3	14°55	19° 9	17°40	26°34	28° 7	13°24	6°13	M 8
T 9	15 9 38	19° 1'04	18°52	11°16	13°12	1°51	27°55	8° 4	14°59	19°11	17°40	26°R35	28° 4	13°31	6° 8	T 9
W10	15 13 34	19°59'10	1°H 6	13°20	14°25	2°37	27°50	8° 5	15° 2	19°13	17°41	26°34	28° 1	13°37	6° 4	W10
T 11	15 17 31	20°57'14	13° 8	15°26	15°38	3°23	27°46	8° 6	15° 5	19°15	17°41	26°32	27°58	13°44	6° 0	T 11
F 12	15 21 27	21°55'17	25° 3	17°33	16°51	4° 9	27°41	8° 6	15° 9	19°17	17°41	26°28	27°55	13°51	5°55	F 12
S 13	15 25 24	22°53'18	6°V54	19°41	18° 4	4°55	27°36	8° 7	15°12	19°19	17°42	26°23	27°51	13°57	5°51	S 13
S 14	15 29 20	23°51'18	18°46	21°50	19°17	5°41	27°31	8° 7	15°15	19°21	17°42	26°17	27°48	14° 4	5°47	S 14
M15	15 33 17	24°49'17	0°A40	24° 0	20°30	6°27	27°25	8° 7	15°19	19°23	17°42	26°11	27°45	14°11	5°42	M15
T 16	15 37 13	25°47'14	12°39	26°11	21°43	7°13	27°20	8° 8	15°22	19°25	17°43	26° 6	27°42	14°18	5°38	T 16
W17	15 41 10	26°45'09	24°46	28°22	22°55	7°58	27°15	8°R 8	15°25	19°27	17°43	26° 2	27°39	14°24	5°34	W17
T 18	15 45 7	27°43'04	7°H 1	0°H33	24° 8	8°44	27° 9	8° 8	15°29	19°29	17°44	25°59	27°36	14°31	5°30	T 18
F 19	15 49 3	28°40'57	19°25	2°44	25°21	9°30	27° 3	8° 8	15°32	19°31	17°44	25°58	27°32	14°38	5°26	F 19
S 20	15 53 0	29°38'48	2°3	4°54	26°33	10°16	26°57	8° 7	15°36	19°33	17°45	25°D58	27°29	14°44	5°22	S 20
S 21	15 56 56	0°H36'38	14°49	7° 4	27°46	11° 1	26°51	8° 7	15°39	19°34	17°45	25°59	27°26	14°51	5°18	S 21
M22	16 0 53	1°34'26	27°52	9°13	28°58	11°47	26°45	8° 7	15°42	19°36	17°46	26° 0	27°23	14°58	5°14	M22
T 23	16 4 49	2°32'12	11°Q10	11°21	0°311	12°32	26°39	8° 6	15°46	19°38	17°47	26° 2	27°20	15° 5	5°11	T 23
W24	16 8 46	3°29'57	24°45	13°27	1°23	13°18	26°32	8° 5	15°49	19°40	17°47	26° 3	27°17	15°11	5° 7	W24
T 25	16 12 42	4°27'40	8°H39	15°31	2°36	14° 3	26°26	8° 5	15°53	19°41	17°48	26°R 3	27°13	15°18	5° 3	T 25
F 26	16 16 39	5°25'21	22°50	17°33	3°48	14°49	26°19	8° 4	15°56	19°43	17°49	26° 2	27°10	15°25	5° 0	F 26
S 27	16 20 36	6°23'01	7°A17	19°33	5° 0	15°34	26°13	8° 3	16° 0	19°45	17°50	26° 0	27° 7	15°32	4°56	S 27
S 28	16 24 32	7°20'40	21°56	21°31	6°13	16°20	26° 6	8° 2	16° 3	19°47	17°50	25°58	27° 4	15°38	4°53	S 28
M29	16 28 29	8°18'17	6°M42	23°26	7°25	17° 5	25°59	8° 1	16° 7	19°48	17°51	25°56	27° 1	15°45	4°49	M29
T 30	16 32 25	9°15'52	21°28	25°19	8°37	17°50	25°52	8° 0	16°10	19°50	17°52	25°54	26°57	15°52	4°46	T 30
W31	16 36 22	10°H13'27	6°A 6	27°H 9	9°349	18°V35	25°A45	7°59	16°H14	19°V52	17°Q53	25°A53	26°A54	15°V58	4°M43	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n11	14s46	4s24	8n 1	2s 2	21n17	0n28	2s57	1s21	22s50	0n34	18s33	0s18	22n32	0n 1	5n59
T 2	15 29	19 4	3 34	8 47	1 56	21 33	0 30	2 39	1 21	22 50	0 34	18 33	0 18	22 33	0 1	6 0
W 3	15 47	22 4	2 29	9 33	1 49	21 48	0 33	2 20	1 21	22 50	0 34	18 33	0 18	22 33	0 1	6 1
T 4	16 4	23 30	1 16	10 19	1 42	22 4	0 36	2 4	1 21	22 50	0 34	18 33	0 18	22 33	0 1	6 1
F 5	16 22	23 22	0n 0	11 6	1 34	22 18	0 38	1 44	1 22	22 50	0 34	18 32	0 18	22 34	0 1	6 2
S 6	16 38	21 47	1 14	11 53	1 26	22 32	0 41	1 26	1 22	22 50	0 34	18 32	0 18	22 34	0 1	6 3
S 7	16 55	19 3	2 21	12 40	1 18	22 45	0 43	1 7	1 22	22 50	0 34	18 32	0 19	22 34	0 1	6 4
M 8	17 11	15 26	3 19	13 28	1 9	22 58	0 46	0 49	1 22	22 50	0 34	18 32	0 19	22 35	0 1	6 4
T 9	17 27	11 15	4 6	14 15	1 0	23 10	0 48	0 31	1 22	22 50	0 34	18 32	0 19	22 35	0 1	6 5
W10	17 43	6 41	4 41	15 2	0 50	23 21	0 51	0 13	1 22	22 50	0 34	18 32	0 19	22 36	0 1	6 6
T 11	17 59	1 57	5 3	15 48	0 40	23 32	0 53	0n 6	1 22	22 50	0 33	18 32	0 19	22 36	0 1	6 7
F 12	18 14	2n48	5 11	16 34	0 30	23 41	0 56	0 24	1 22	22 50	0 33	18 32	0 19	22 36	0 1	6 7
S 13	18 28	7 25	5 6	17 19	0 20	23 51	0 58	0 42	1 22	22 50	0 33	18 32	0 19	22 37	0 1	6 8
S 14	18 43	11 46	4 48	18 3	0 9	23 59	1 1	1 0	1 22	22 50	0 33	18 32	0 19	22 37	0 1	6 9
M15	18 57	15 42	4 17	18 46	0n 1	24 7	1 3	1 18	1 22	22 50	0 33	18 32	0 19	22 37	0 1	6 9
T 16	19 11	19 2	3 35	19 28	0 12	24 15	1 5	1 36	1 22	22 50	0 33	18 32	0 20	22 38	0 1	6 10
W17	19 25	21 34	2 42	20 8	0 22	24 21	1 8	1 54	1 22	22 50	0 33	18 32	0 20	22 38	0 1	6 11
T 18	19 38	23 8	1 42	20 47	0 33	24 27	1 10	2 12	1 22	22 50	0 33	18 32	0 20	22 39	0 1	6 11
F 19	19 51	23 35	0 36	21 23	0 43	24 32	1 12	2 30	1 22	22 50	0 33	18 32	0 20	22 39	0 1	6 12
S 20	20 3	22 51	0s33	21 57	0 53	24 37	1 14	2 48	1 22	22 50	0 33	18 32	0 20	22 39	0 1	6 13
S 21	20 15	20 54	1 42	22 29	1 2	24 40	1 17	3 6	1 22	22 50	0 33	18 32	0 20	22 40	0 1	6 13
M22	20 27	17 51	2 46	22 59	1 11	24 43	1 19	3 24	1 22	22 50	0 33	18 33	0 20	22 40	0 1	6 14
T 23	20 39	13 49	3 43	23 26	1 20	24 46	1 21	3 42	1 22	22 49	0 33	18 33	0 20	22 40	0 1	6 15
W24	20 50	9 1	4 29	23 51	1 28	24 47	1 23	4 0	1 21	22 49	0 33	18 33	0 20	22 41	0 1	6 15
T 25	21 1	3 40	5 1	24 12	1 35	24 48	1 25	4 17	1 21	22 49	0 33	18 33	0 21	22 41	0 1	6 16
F 26	21 11	1s59	5 14	24 32	1 42	24 48	1 27	4 35	1 21	22 49	0 33	18 34	0 21	22 42	0 1	6 17
S 27	21 21	7 37	5 9	24 48	1 48	24 48	1 29	4 52	1 21	22 49	0 32	18 34	0 21	22 42	0 1	6 17
S 28	21 31	12 55	4 43	25 2	1 54	24 46	1 30	5 10	1 21	22 49	0 32	18 34	0 21	22 42	0 1	6 18
M29	21 40	17 30	3 59	25 13	1 58	24 44	1 32	5 27	1 21	22 49	0 32	18 35	0 21	22 43	0 1	6 18
T 30	21 49	20 59	2 59	25 22	2 2	24 42	1 34	5 45	1 21	22 49	0 32	18 35	0 21	22 43	0 1	6 19
W31	21n57	23s 4	1s47	25n28	2n 5	24n38	1n36	6n 2	1s21	22s49	0n32	18s36	0s21	22n43	0n 1	6n19

Julian Day Number = 2523618.5, Delta T = 160.41 sec

Ecliptic obliquity = 23°24'49, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°29'53, Lahiri = 26°36'53

ASTRODIENST EPHEMERIS for the year 2197

geocentric

JUNE 2197

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 40 18	11 ^{II} 11'00	20 [♂] 29	28 ^{II} 57	11 [♂] 1	19 [♂] 21	25 [♂] R38	7 [♂] R57	16 ^{II} 17	19 [♂] 53	17 [♂] 54	25 [♂] D52	26 [♂] 51	16 [♂] 5	4 [♂] R40	T 1
F 2	16 44 15	12 [♂] 8'32	4 [♂] 34	0 [♂] 41	12 [♂] 13	20 [♂] 6	25 [♂] ♂31	7 [♂] ♂56	16 [♂] 21	19 [♂] 55	17 [♂] 54	25 [♂] ♂52	26 [♂] 48	16 [♂] 12	4 [♂] ♂37	F 2
S 3	16 48 11	13 [♂] 6'04	18 [♂] 15	2 [♂] 23	13 [♂] 25	20 [♂] 51	25 [♂] 23	7 [♂] 54	16 [♂] 25	19 [♂] 56	17 [♂] 55	25 [♂] 53	26 [♂] 45	16 [♂] 19	4 [♂] 34	S 3
S 4	16 52 8	14 [♂] 3'34	1 [♂] 33	4 [♂] 2	14 [♂] 37	21 [♂] 36	25 [♂] 16	7 [♂] 53	16 [♂] 28	19 [♂] 58	17 [♂] 56	25 [♂] 54	26 [♂] 42	16 [♂] 25	4 [♂] 31	S 4
M 5	16 56 5	15 [♂] 1'03	14 [♂] 28	5 [♂] 38	15 [♂] 49	22 [♂] 21	25 [♂] 9	7 [♂] 51	16 [♂] 32	19 [♂] 59	17 [♂] 57	25 [♂] 55	26 [♂] 38	16 [♂] 32	4 [♂] 28	M 5
T 6	17 0 1	15 [♂] 58'32	27 [♂] 2	7 [♂] 11	17 [♂] 1	23 [♂] 6	25 [♂] 1	7 [♂] 49	16 [♂] 35	20 [♂] 1	17 [♂] 58	25 [♂] 55	26 [♂] 35	16 [♂] 39	4 [♂] 26	T 6
W 7	17 3 58	16 [♂] 56'00	9 [♂] 19	8 [♂] 42	18 [♂] 12	23 [♂] 51	24 [♂] 54	7 [♂] 47	16 [♂] 39	20 [♂] 2	17 [♂] 59	25 [♂] 56	26 [♂] 32	16 [♂] 45	4 [♂] 23	W 7
T 8	17 7 54	17 [♂] 53'27	21 [♂] 24	10 [♂] 9	19 [♂] 24	24 [♂] 36	24 [♂] 46	7 [♂] 45	16 [♂] 42	20 [♂] 4	18 [♂] 0	25 [♂] R56	26 [♂] 29	16 [♂] 52	4 [♂] 21	T 8
F 9	17 11 51	18 [♂] 50'53	3 [♂] 20	11 [♂] 33	20 [♂] 36	25 [♂] 21	24 [♂] 39	7 [♂] 43	16 [♂] 46	20 [♂] 5	18 [♂] 1	25 [♂] 56	26 [♂] 26	16 [♂] 59	4 [♂] 18	F 9
S 10	17 15 47	19 [♂] 48'19	15 [♂] 12	12 [♂] 54	21 [♂] 47	26 [♂] 5	24 [♂] 31	7 [♂] 41	16 [♂] 49	20 [♂] 6	18 [♂] 2	25 [♂] 55	26 [♂] 23	17 [♂] 6	4 [♂] 16	S 10
S 11	17 19 44	20 [♂] 45'45	27 [♂] 5	14 [♂] 13	22 [♂] 59	26 [♂] 50	24 [♂] 23	7 [♂] 39	16 [♂] 53	20 [♂] 8	18 [♂] 3	25 [♂] 55	26 [♂] 19	17 [♂] 12	4 [♂] 14	S 11
M12	17 23 40	21 [♂] 43'09	9 [♂] 2	15 [♂] 28	24 [♂] 10	27 [♂] 35	24 [♂] 16	7 [♂] 36	16 [♂] 56	20 [♂] 9	18 [♂] 5	25 [♂] 54	26 [♂] 16	17 [♂] 19	4 [♂] 12	M12
T 13	17 27 37	22 [♂] 40'33	21 [♂] 7	16 [♂] 39	25 [♂] 22	28 [♂] 19	24 [♂] 8	7 [♂] 34	17 [♂] 0	20 [♂] 10	18 [♂] 6	25 [♂] 54	26 [♂] 13	17 [♂] 26	4 [♂] 9	T 13
W14	17 31 34	23 [♂] 37'57	3 [♂] 23	17 [♂] 48	26 [♂] 33	29 [♂] 4	24 [♂] 0	7 [♂] 32	17 [♂] 3	20 [♂] 11	18 [♂] 7	25 [♂] 53	26 [♂] 10	17 [♂] 32	4 [♂] 8	W14
T 15	17 35 30	24 [♂] 35'20	15 [♂] 50	18 [♂] 53	27 [♂] 45	29 [♂] 48	23 [♂] 53	7 [♂] 29	17 [♂] 7	20 [♂] 13	18 [♂] 8	25 [♂] 53	26 [♂] 7	17 [♂] 39	4 [♂] 6	T 15
F 16	17 39 27	25 [♂] 32'42	28 [♂] 32	19 [♂] 55	28 [♂] 56	0 [♂] 33	23 [♂] 45	7 [♂] 26	17 [♂] 10	20 [♂] 14	18 [♂] 9	25 [♂] 53	26 [♂] 3	17 [♂] 46	4 [♂] 4	F 16
S 17	17 43 23	26 [♂] 30'03	11 [♂] 28	20 [♂] 54	0 [♂] 7	1 [♂] 17	23 [♂] 37	7 [♂] 24	17 [♂] 14	20 [♂] 15	18 [♂] 11	25 [♂] 53	26 [♂] 0	17 [♂] 53	4 [♂] 2	S 17
S 18	17 47 20	27 [♂] 27'24	24 [♂] 38	21 [♂] 49	1 [♂] 18	2 [♂] 1	23 [♂] 30	7 [♂] 21	17 [♂] 17	20 [♂] 16	18 [♂] 12	25 [♂] 53	25 [♂] 57	17 [♂] 59	4 [♂] 1	S 18
M19	17 51 16	28 [♂] 24'44	8 [♂] 3	22 [♂] 40	2 [♂] 30	2 [♂] 46	23 [♂] 22	7 [♂] 18	17 [♂] 21	20 [♂] 17	18 [♂] 13	25 [♂] 53	25 [♂] 54	18 [♂] 6	4 [♂] 0	M19
T 20	17 55 13	29 [♂] 22'03	21 [♂] 40	23 [♂] 28	3 [♂] 41	3 [♂] 30	23 [♂] 15	7 [♂] 15	17 [♂] 24	20 [♂] 18	18 [♂] 14	25 [♂] 52	25 [♂] 51	18 [♂] 13	3 [♂] 58	T 20
W21	17 59 10	0 [♂] 19'22	5 [♂] 29	24 [♂] 12	4 [♂] 52	4 [♂] 14	23 [♂] 7	7 [♂] 12	17 [♂] 28	20 [♂] 19	18 [♂] 16	25 [♂] 52	25 [♂] 48	18 [♂] 19	3 [♂] 57	W21
T 22	18 3 6	1 [♂] 16'39	19 [♂] 29	24 [♂] 52	6 [♂] 3	4 [♂] 58	22 [♂] 59	7 [♂] 9	17 [♂] 31	20 [♂] 20	18 [♂] 17	25 [♂] 52	25 [♂] 44	18 [♂] 26	3 [♂] 56	T 22
F 23	18 7 3	2 [♂] 13'56	3 [♂] 38	25 [♂] 28	7 [♂] 13	5 [♂] 42	22 [♂] 52	7 [♂] 6	17 [♂] 35	20 [♂] 21	18 [♂] 18	25 [♂] D52	25 [♂] 41	18 [♂] 33	3 [♂] 55	F 23
S 24	18 10 59	3 [♂] 11'12	17 [♂] 54	26 [♂] 0	8 [♂] 24	6 [♂] 26	22 [♂] 45	7 [♂] 2	17 [♂] 38	20 [♂] 22	18 [♂] 20	25 [♂] 52	25 [♂] 38	18 [♂] 40	3 [♂] 54	S 24
S 25	18 14 56	4 [♂] 8'27	2 [♂] 14	26 [♂] 27	9 [♂] 35	7 [♂] 10	22 [♂] 37	6 [♂] 59	17 [♂] 42	20 [♂] 23	18 [♂] 21	25 [♂] 52	25 [♂] 35	18 [♂] 46	3 [♂] 53	S 25
M26	18 18 52	5 [♂] 5'41	16 [♂] 35	26 [♂] 50	10 [♂] 46	7 [♂] 54	22 [♂] 30	6 [♂] 56	17 [♂] 45	20 [♂] 24	18 [♂] 22	25 [♂] 53	25 [♂] 32	18 [♂] 53	3 [♂] 53	M26
T 27	18 22 49	6 [♂] 2'55	0 [♂] ♂53	27 [♂] 9	11 [♂] 56	8 [♂] 37	22 [♂] 22	6 [♂] 52	17 [♂] 49	20 [♂] 25	18 [♂] 24	25 [♂] 54	25 [♂] 29	19 [♂] 0	3 [♂] 52	T 27
W28	18 26 45	7 [♂] 0'09	15 [♂] 4	27 [♂] 23	13 [♂] 7	9 [♂] 21	22 [♂] 15	6 [♂] 49	17 [♂] 52	20 [♂] 26	18 [♂] 25	25 [♂] 54	25 [♂] 25	19 [♂] 6	3 [♂] 52	W28
T 29	18 30 42	7 [♂] 57'22	29 [♂] 5	27 [♂] 33	14 [♂] 17	10 [♂] 4	22 [♂] 8	6 [♂] 45	17 [♂] 55	20 [♂] 27	18 [♂] 27	25 [♂] R55	25 [♂] 22	19 [♂] 13	3 [♂] 51	T 29
F 30	18 34 39	8 [♂] 54'35	12 [♂] 52	27 [♂] 38	15 [♂] 27	10 [♂] 48	22 [♂] ♂ 1	6 [♂] 42	17 [♂] 59	20 [♂] 28	18 [♂] 28	25 [♂] ♂54	25 [♂] ♂19	19 [♂] 20	3 [♂] ♂51	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
-----	---	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

ASTRODIENST EPHEMERIS for the year 2197

geocentric

JULY 2197

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 38 35	9 ⁵⁵ 1'47	26 ³ 21	27°R39	16 ⁶ 38	11 ⁸ 31	21°R54	6°R38	18 ^{II} 2	20 ^Y 28	18 ^Ω 30	25°R53	25 [♂] 16	19 ^Y 27	3°R51	S 1
S 2	18 42 32	10°48'59	9 ³³ 32	27 ⁵ 35	17°48	12°15	21 [♂] 47	6 ³³ 34	18° 5	20°29	18°31	25 [♂] 51	25°13	19°33	3°D51	S 2
M 3	18 46 28	11°46'12	22°24	27°26	18°58	12°58	21°40	6°31	18° 9	20°30	18°33	25°49	25° 9	19°40	3 ^{III} 51	M 3
T 4	18 50 25	12°43'24	4 ³ 58	27°13	20° 8	13°41	21°34	6°27	18°12	20°30	18°34	25°47	25° 6	19°47	3°51	T 4
W 5	18 54 21	13°40'36	17°16	26°56	21°18	14°24	21°27	6°23	18°15	20°31	18°36	25°45	25° 3	19°53	3°52	W 5
T 6	18 58 18	14°37'48	29°22	26°34	22°28	15° 7	21°20	6°19	18°19	20°32	18°37	25°43	25° 0	20° 0	3°52	T 6
F 7	19 2 14	15°35'01	11 ^Y 19	26° 9	23°38	15°50	21°14	6°15	18°22	20°32	18°39	25°D42	24°57	20° 7	3°52	F 7
S 8	19 6 11	16°32'14	23°12	25°41	24°47	16°33	21° 8	6°11	18°25	20°33	18°40	25°43	24°54	20°13	3°53	S 8
S 9	19 10 8	17°29'27	5 ⁸ 5	25° 9	25°57	17°16	21° 1	6° 7	18°28	20°33	18°42	25°43	24°50	20°20	3°54	S 9
M10	19 14 4	18°26'40	17° 4	24°35	27° 7	17°59	20°55	6° 3	18°31	20°34	18°44	25°45	24°47	20°27	3°55	M10
T 11	19 18 1	19°23'54	29°12	23°59	28°16	18°42	20°49	5°59	18°35	20°34	18°45	25°46	24°44	20°34	3°56	T 11
W12	19 21 57	20°21'08	11 ^{II} 34	23°22	29°25	19°24	20°44	5°54	18°38	20°34	18°47	25°48	24°41	20°40	3°57	W12
T 13	19 25 54	21°18'23	24°13	22°44	0 ^{III} 35	20° 7	20°38	5°50	18°41	20°35	18°48	25°R48	24°38	20°47	3°58	T 13
F 14	19 29 50	22°15'38	7 ⁵ 10	22° 5	1°44	20°49	20°32	5°46	18°44	20°35	18°50	25°48	24°35	20°54	3°59	F 14
S 15	19 33 47	23°12'53	20°26	21°28	2°53	21°32	20°27	5°42	18°47	20°35	18°52	25°46	24°31	21° 0	4° 1	S 15
S 16	19 37 43	24°10'08	4 ^Ω 1	20°51	4° 2	22°14	20°22	5°38	18°50	20°36	18°53	25°43	24°28	21° 7	4° 2	S 16
M17	19 41 40	25° 7'23	17°52	20°16	5°11	22°56	20°16	5°33	18°53	20°36	18°55	25°39	24°25	21°14	4° 4	M17
T 18	19 45 37	26° 4'39	1 ^{III} 56	19°43	6°20	23°38	20°11	5°29	18°56	20°36	18°57	25°35	24°22	21°21	4° 6	T 18
W19	19 49 33	27° 1'54	16° 8	19°14	7°28	24°20	20° 7	5°24	18°59	20°36	18°59	25°31	24°19	21°27	4° 7	W19
T 20	19 53 30	27°59'10	0 ^Ω 25	18°48	8°37	25° 2	20° 2	5°20	19° 2	20°36	19° 0	25°27	24°15	21°34	4° 9	T 20
F 21	19 57 26	28°56'26	14°42	18°26	9°45	25°44	19°57	5°16	19° 5	20°36	19° 2	25°25	24°12	21°41	4°11	F 21
S 22	20 1 23	29°53'42	28°56	18° 9	10°54	26°25	19°53	5°11	19° 8	20°37	19° 4	25°D24	24° 9	21°47	4°14	S 22
S 23	20 5 19	0 ^Ω 50'58	13 ^{III} 5	17°57	12° 2	27° 7	19°49	5° 7	19°11	20°37	19° 6	25°25	24° 6	21°54	4°16	S 23
M24	20 9 16	1°48'15	27° 8	17°49	13°10	27°48	19°45	5° 2	19°14	20°R37	19° 7	25°26	24° 3	22° 1	4°18	M24
T 25	20 13 12	2°45'32	11 [♂] 2	17°D48	14°18	28°30	19°41	4°58	19°16	20°37	19° 9	25°27	24° 0	22° 8	4°21	T 25
W26	20 17 9	3°42'49	24°47	17°51	15°26	29°11	19°37	4°54	19°19	20°36	19°11	25°R28	23°56	22°14	4°23	W26
T 27	20 21 6	4°40'06	8 ³ 22	18° 1	16°34	29°52	19°33	4°49	19°22	20°36	19°13	25°27	23°53	22°21	4°26	T 27
F 28	20 25 2	5°37'24	21°45	18°16	17°41	0 ^{II} 33	19°30	4°45	19°25	20°36	19°14	25°25	23°50	22°28	4°29	F 28
S 29	20 28 59	6°34'42	4 ³³ 56	18°38	18°49	1°14	19°27	4°40	19°27	20°36	19°16	25°20	23°47	22°34	4°32	S 29
S 30	20 32 55	7°32'01	17°52	19° 5	19°56	1°55	19°24	4°36	19°30	20°36	19°18	25°14	23°44	22°41	4°35	S 30
M31	20 36 52	8 ^Ω 29'21	0 ^{II} 34	19°39	21 ^{III} 3	2 ^{II} 36	19 [♂] 21	4 ³³ 31	19 ^{II} 33	20 ^Y 36	19°Ω20	25 [♂] 7	23 [♂] 41	22 ^Y 48	4 ^{III} 38	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
S 1	23n 3	18s14	2n40	18n24	2s15	17n35	1n50	14n 9	1s11	22s42	0n28	19s 0	0s25	22n54	0n 2	6n32	1s34	22n33	7n40	23s21	23s20	11n57	11s44	1n 7			
S 2	22 58	14 20	3 38	18 10	2 31	17 13	1 49	14 23	1 10	22 42	0 28	19 1	0 25	22 54	0 2	6 32	1 34	22 32	7 40	23 21	23 20	11 59	11 44	1 7			
M 3	22 54	9 52	4 23	17 56	2 46	16 50	1 48	14 36	1 10	22 41	0 28	19 2	0 25	22 55	0 2	6 32	1 35	22 32	7 40	23 21	23 19	12 1	11 44	1 7			
T 4	22 48	5 6	4 55	17 43	3 2	16 27	1 47	14 50	1 9	22 41	0 28	19 3	0 25	22 55	0 2	6 32	1 35	22 31	7 40	23 21	23 19	12 3	11 44	1 7			
W 5	22 43	0 14	5 12	17 32	3 17	16 4	1 46	15 3	1 9	22 41	0 28	19 4	0 25	22 55	0 2	6 33	1 35	22 31	7 40	23 21	23 19	12 5	11 44	1 8			
T 6	22 37	4n34	5 15	17 21	3 32	15 40	1 45	15 16	1 8	22 41	0 27	19 5	0 25	22 56	0 2	6 33	1 35	22 30	7 40	23 21	23 19	12 8	11 44	1 8			
F 7	22 30	9 8	5 4	17 12	3 45	15 15	1 43	15 29	1 8	22 40	0 27	19 6	0 25	22 56	0 2	6 33	1 35	22 30	7 40	23 21	23 19	12 10	11 44	1 8			
S 8	22 23	13 20	4 40	17 5	3 58	14 51	1 42	15 42	1 7	22 40	0 27	19 7	0 25	22 56	0 2	6 33	1 35	22 29	7 40	23 21	23 19	12 12	11 44	1 8			
S 9	22 16	17 2	4 4	16 59	4 10	14 26	1 40	15 54	1 7	22 40	0 27	19 8	0 26	22 56	0 2	6 33	1 35	22 29	7 40	23 21	23 19	12 14	11 44	1 8			
M10	22 9	20 4	3 17	16 54	4 21	14 0	1 39	16 7	1 6	22 40	0 27	19 9	0 26	22 57	0 2	6 33	1 35	22 28	7 40	23 21	23 19	12 17	11 44	1 9			
T 11	22 1	22 15	2 21	16 50	4 31	13 35	1 37	16 19	1 6	22 39	0 27	19 10	0 26	22 57	0 2	6 33	1 35	22 27	7 40	23 21	23 19	12 19	11 44	1 9			
W12	21 52	23 26	1 17	16 49	4 39	13 9	1 35	16 31	1 5	22 39	0 26	19 11	0 26	22 57	0 2	6 33	1 35	22 27	7 40	23 21	23 18	12 21	11 44	1 9			
T 13	21 44	23 26	0 9	16 48	4 46	12 43	1 33	16 43	1 4	22 39	0 26	19 13	0 26	22 58	0 2	6 34	1 35	22 26	7 40	23 21	23 18	12 23	11 44	1 9			
F 14	21 35	22 11	1s 2	16 49	4 51	12 16	1 31	16 55	1 4	22 39	0 26	19 14	0 26	22 58	0 2	6 34	1 35	22 26	7 40	23 21	23 18	12 25	11 45	1 9			
S 15	21 25	19 42	2 11	16 51	4 54	11 49	1 29	17 6	1 3	22 38	0 26	19 15	0 26	22 58	0 2	6 34	1 35	22 25	7 40	23 21	23 18	12 27	11 45	1 10			
S 16	21 15	16 5	3 14	16 55	4 56	11 22	1 27	17 18	1 3	22 38	0 26	19 16	0 26	22 58	0 2	6 34	1 35	22 25	7 40	23 21	23 18	12 30	11 45	1 10			
M17	21 5	11 32	4 7	17 0	4 56	10 55	1 24	17 29	1 2	22 38	0 25	19 17	0 26	22 59	0 2	6 34	1 35	22 24	7 40	23 21	23 18	12 32	11 46	1 10			
T 18	20 55	6 19	4 46	17 6	4 55	10 27	1 22	17 40	1 1	22 38	0 25	19 18	0 26	22 59	0 2	6 34	1 35	22 24	7 40	23 20	23 18	12 34	11 46	1 10			
W19	20 44	0 44	5 8	17 13	4 52	9 59	1 19	17 51	1 1	22 38	0 25	19 20	0 26	22 59	0 2	6 34	1 35	22 23	7 40	23 20	23 17	12 36	11 47	1 10			
T 20	20 33	4s55	5 11	17 21	4 47	9 31	1 17	18 2	1 0	22 37	0 25	19 21	0 27	22 59	0 2	6 34	1 36	22 22	7 40	23 20	23 17	12 38	11 47	1 11			
F 21	20 21	10 19	4 55	17 30	4 41	9 3	1 14	18 13	0 59	22 37	0 25	19 22	0 27	23 0	0 2	6 34	1 36	22 22	7 40	23 20	23 17	12 40	11 48	1 11			
S 22	20 9	15 8	4 20	17 40	4 34	8 34	1 11	18 23	0 59	22 37	0 25	19 23	0 27	23 0	0 2	6 34	1 36	22 21	7 40	23 20	23 17	12 43	11 48	1 11			
S 23	19 57	19 5	3 30	17 50	4 25	8 6	1 8	18 33	0 58	22 37	0 24	19 24	0 27	23 0	0 2	6 34	1 36	22 21	7 40	23 20	23 17	12 45	11 49	1 11			
M24	19 44	21 54	2 28	18 1	4 15	7 37	1 5	18 43	0 57	22 37	0 24	19 25	0 27	23 0	0 2	6 34	1 36	22 20	7 40	23 20	23 17	12 47	11 49	1 11			
T 25	19 31	23 21	1 18	18 12	4 4	7 8	1 2	18 53	0 57	22 37	0 24	19 26	0 27	23 1	0 2	6 34	1 36	22 20	7 40	23 20	23 17	12 49	11 50	1 11			
W26	19 18	23 22	0 4	18 24	3 52	6 39	0 59	19 3	0 56	22 37	0 24	19 28	0 27	23 1	0 2	6 34	1 36	22 19	7 40	23 20	23 16	12 51	11 51	1 12			
T 27	19 5	22 0	1n10	18 35	3 39	6 9	0 56	19 12	0 55	22 37	0 24	19 29	0 27	23 1	0 2	6 33	1 36	22 19	7 40	23 20	23 16	12 53	11 51	1 12			
F 28	18 51	19 23	2 18	18 47	3 25	5 40	0 52	19 21	0 54	22 36	0 23	19 30	0 27	23 1	0 2	6 33	1 36	22 18	7 40	23 20	23 16	12 55	11 52	1 12			
S 29	18 37	15 49	3 17	18 58	3 11	5 10	0 49	19 31	0 53	22 36	0 23	19 31	0 27	23 2	0 2	6 33	1 36	22 17	7 40	23 20	23 16	12 58	11 53	1 12			
S 30	18 22	11 33	4 6	19 8	2 57	4 41	0 45	19 40	0 53	22 36	0 23	19 32	0 27	23 2	0 2	6 33	1 36	22 17	7 40	23 20	23 16	13 0	11 54	1 12			
M31	18n 7	6s53	4n41	19n19	2s42	4n11	0n42	19n48	0s52	22s36	0n23	19s33	0s28	23n 2	0n 2	6n33	1s36	22n16	7n40	23s19	23s16	13n 2	11s55	1n13			

ASTRODIENST EPHEMERIS for the year 2197
geocentric

AUGUST 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 40 48	9♌26'41	13♋2	20♍18	22♎10	3♏17	19♏R18	4♏R27	19♏II35	20♏R35	19♏Ω22	24♏R59	23♏♂37	22♏Υ54	4♏Λ41	T 1
W 2	20 44 45	10°24'03	25°17	21° 4	23°17	3°57	19♏♂16	4♏♂23	19°38	20♏Υ35	19°23	24♏♂52	23°34	23° 1	4°44	W 2
T 3	20 48 41	11°21'25	7♏Υ20	21°55	24°24	4°38	19°13	4°18	19°40	20°35	19°25	24°46	23°31	23° 8	4°48	T 3
F 4	20 52 38	12°18'49	19°16	22°52	25°31	5°18	19°11	4°14	19°43	20°34	19°27	24°41	23°28	23°15	4°51	F 4
S 5	20 56 35	13°16'13	1♌8	23°55	26°37	5°58	19° 9	4° 9	19°45	20°34	19°29	24°38	23°25	23°21	4°55	S 5
S 6	21 0 31	14°13'39	13° 0	25° 3	27°43	6°38	19° 7	4° 5	19°47	20°34	19°31	24°D37	23°21	23°28	4°58	S 6
M 7	21 4 28	15°11'06	24°58	26°17	28°50	7°18	19° 6	4° 1	19°50	20°33	19°32	24°38	23°18	23°35	5° 2	M 7
T 8	21 8 24	16° 8'34	7♏II 6	27°36	29°56	7°58	19° 4	3°56	19°52	20°33	19°34	24°39	23°15	23°41	5° 6	T 8
W 9	21 12 21	17° 6'03	19°30	29° 0	1♌1	8°38	19° 3	3°52	19°54	20°32	19°36	24°R40	23°12	23°48	5°10	W 9
T 10	21 16 17	18° 3'34	2♌14	0♌Ω29	2° 7	9°18	19° 2	3°48	19°57	20°32	19°38	24°39	23° 9	23°55	5°14	T 10
F 11	21 20 14	19° 1'06	15°20	2° 2	3°12	9°57	19° 1	3°44	19°59	20°31	19°40	24°38	23° 6	24° 1	5°18	F 11
S 12	21 24 10	19°58'39	28°51	3°40	4°18	10°37	19° 0	3°40	20° 1	20°30	19°42	24°33	23° 2	24° 8	5°22	S 12
S 13	21 28 7	20°56'13	12♌Ω46	5°22	5°23	11°16	19° 0	3°35	20° 3	20°30	19°43	24°27	22°59	24°15	5°27	S 13
M14	21 32 4	21°53'48	27° 2	7° 7	6°28	11°55	18°59	3°31	20° 5	20°29	19°45	24°19	22°56	24°22	5°31	M14
T 15	21 36 0	22°51'25	11♏II33	8°56	7°33	12°34	18°D59	3°27	20° 7	20°28	19°47	24°10	22°53	24°28	5°36	T 15
W16	21 39 57	23°49'02	26°12	10°47	8°37	13°13	18°59	3°23	20° 9	20°28	19°49	24° 1	22°50	24°35	5°40	W16
T 17	21 43 53	24°46'40	10♌Ω52	12°41	9°41	13°52	19° 0	3°19	20°11	20°27	19°51	23°53	22°47	24°42	5°45	T 17
F 18	21 47 50	25°44'20	25°27	14°38	10°45	14°31	19° 0	3°15	20°13	20°26	19°53	23°48	22°43	24°48	5°50	F 18
S 19	21 51 46	26°42'00	9♏Λ50	16°35	11°49	15° 9	19° 1	3°11	20°15	20°25	19°54	23°45	22°40	24°55	5°54	S 19
S 20	21 55 43	27°39'42	24° 0	18°34	12°53	15°48	19° 1	3° 8	20°17	20°25	19°56	23°D43	22°37	25° 2	5°59	S 20
M21	21 59 39	28°37'24	7♏Υ54	20°35	13°56	16°26	19° 2	3° 4	20°19	20°24	19°58	23°44	22°34	25° 9	6° 4	M21
T 22	22 3 36	29°35'07	21°34	22°35	15° 0	17° 4	19° 4	3° 0	20°20	20°23	20° 0	23°R44	22°31	25°15	6°10	T 22
W23	22 7 33	0♏II32'52	4♏Υ59	24°36	16° 3	17°42	19° 5	2°56	20°22	20°22	20° 2	23°44	22°27	25°22	6°15	W23
T 24	22 11 29	1°30'38	18°12	26°37	17° 5	18°20	19° 6	2°53	20°24	20°21	20° 3	23°41	22°24	25°29	6°20	T 24
F 25	22 15 26	2°28'24	1♌13	28°38	18° 8	18°57	19° 8	2°49	20°25	20°20	20° 5	23°36	22°21	25°35	6°25	F 25
S 26	22 19 22	3°26'12	14° 3	0♏II39	19°10	19°35	19°10	2°46	20°27	20°19	20° 7	23°29	22°18	25°42	6°31	S 26
S 27	22 23 19	4°24'02	26°42	2°39	20°12	20°12	19°12	2°42	20°28	20°18	20° 9	23°18	22°15	25°49	6°36	S 27
M28	22 27 15	5°21'52	9♏II10	4°38	21°13	20°50	19°14	2°39	20°30	20°17	20°11	23° 6	22°12	25°55	6°42	M28
T 29	22 31 12	6°19'45	21°28	6°36	22°14	21°27	19°17	2°35	20°31	20°16	20°12	22°54	22° 8	26° 2	6°48	T 29
W30	22 35 8	7°17'38	3♏Υ35	8°33	23°15	22° 4	19°20	2°32	20°33	20°15	20°14	22°41	22° 5	26° 9	6°53	W30
T 31	22 39 5	8♏II15'34	15♏Υ35	10♏II29	24♌16	22♏II40	19♏♂22	2♏♂29	20♏II34	20♏Υ14	20♏Ω16	22♏♂30	22♏♂2	26♏Υ16	6♏Λ59	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17n52	2s 1	5n 1	19n28	2s26	3n41	0n38	19n57	0s51	22s36	0n23	19s34	0s28	23n 2	0n 2	6n33	1s36	22n16	7n40	23s19	23s16	13n 4	11s55	1n13									
W 2	17 37	2n50	5 8	19 37	2 11	3 11	0 34	20 5	0 51	22 36	0 23	19 36	0 28	23 2	0 2	6 33	1 36	22 15	7 40	23 19	23 15	13 6	11 56	1 13									
T 3	17 21	7 31	5 1	19 44	1 55	2 41	0 30	20 13	0 50	22 36	0 22	19 37	0 28	23 3	0 2	6 32	1 36	22 15	7 40	23 19	23 15	13 8	11 57	1 13									
F 4	17 5	11 51	4 40	19 50	1 40	2 11	0 26	20 22	0 49	22 36	0 22	19 38	0 28	23 3	0 2	6 32	1 36	22 14	7 40	23 18	23 15	13 10	11 58	1 13									
S 5	16 49	15 44	4 8	19 55	1 24	1 41	0 22	20 29	0 48	22 36	0 22	19 39	0 28	23 3	0 2	6 32	1 36	22 14	7 40	23 18	23 15	13 12	11 59	1 14									
S 6	16 33	18 59	3 25	19 58	1 9	1 11	0 18	20 37	0 47	22 36	0 22	19 40	0 28	23 3	0 2	6 32	1 36	22 13	7 40	23 18	23 15	13 14	12 0	1 14									
M 7	16 16	21 28	2 33	19 59	0 54	0 40	0 14	20 44	0 47	22 36	0 22	19 41	0 28	23 3	0 2	6 32	1 37	22 13	7 40	23 18	23 15	13 16	12 2	1 14									
T 8	15 59	23 0	1 33	19 58	0 39	0 10	0 9	20 52	0 46	22 36	0 22	19 42	0 28	23 4	0 2	6 31	1 37	22 12	7 40	23 18	23 14	13 19	12 3	1 14									
W 9	15 42	23 28	0 28	19 56	0 25	0s20	0 5	20 59	0 45	22 36	0 21	19 43	0 28	23 4	0 2	6 31	1 37	22 11	7 40	23 18	23 14	13 21	12 4	1 14									
T 10	15 24	22 43	0s41	19 51	0 11	0 50	0 0	21 6	0 44	22 37	0 21	19 44	0 28	23 4	0 2	6 31	1 37	22 11	7 40	23 18	23 14	13 23	12 5	1 14									
F 11	15 6	20 44	1 49	19 43	0n 2	1 20	0s 4	21 12	0 43	22 37	0 21	19 45	0 28	23 4	0 2	6 31	1 37	22 10	7 40	23 18	23 14	13 25	12 6	1 15									
S 12	14 48	17 33	2 53	19 33	0 15	1 51	0 9	21 19	0 42	22 37	0 21	19 47	0 28	23 4	0 2	6 30	1 37	22 10	7 40	23 18	23 14	13 27	12 7	1 15									
S 13	14 30	13 18	3 48	19 20	0 26	2 21	0 14	21 25	0 41	22 37	0 21	19 48	0 29	23 4	0 2	6 30	1 37	22 9	7 40	23 18	23 14	13 29	12 9	1 15									
M14	14 12	8 14	4 31	19 5	0 38	2 51	0 18	21 32	0 40	22 37	0 20	19 49	0 29	23 5	0 2	6 30	1 37	22 9	7 41	23 17	23 14	13 31	12 10	1 15									
T 15	13 53	2 39	4 57	18 47	0 48	3 21	0 23	21 38	0 40	22 37	0 20	19 50	0 29	23 5	0 2	6 30	1 37	22 8	7 41	23 17	23 13	13 33	12 11	1 15									
W16	13 34	3s 9	5 4	18 26	0 58	3 51	0 28	21 43	0 39	22 37	0 20	19 51	0 29	23 5	0 2	6 29	1 37	22 8	7 41	23 17	23 13	13 35	12 13	1 15									
T 17	13 15	8 46	4 51	18 3	1 6	4 21	0 33	21 49	0 38	22 38	0 20	19 52	0 29	23 5	0 2	6 29	1 37	22 7	7 41	23 16	23 13	13 37	12 14	1 16									
F 18	12 56	13 51	4 19	17 37	1 14	4 51	0 38	21 54	0 37	22 38	0 20	19 53	0 29	23 5	0 2	6 29	1 37	22 7	7 41	23 16	23 13	13 39	12 15	1 16									
S 19	12 36	18 5	3 32	17 8	1 21	5 20	0 44	22 0	0 36	22 38	0 20	19 54	0 29	23 5	0 2	6 28	1 37	22 6	7 41	23 16	23 13	13 41	12 17	1 16									
S 20	12 16	21 12	2 32	16 38	1 27	5 50	0 49	22 5	0 35	22 38	0 19	19 55	0 29	23 6	0 2	6 28	1 37	22 6	7 41	23 16	23 12	13 43	12 18	1 16									
M21	11 56	22 58	1 23	16 5	1 32	6 20	0 54	22 10	0 34	22 39	0 19	19 55	0 29	23 6	0 2	6 27	1 37	22 5	7 41	23 16	23 12	13 45	12 20	1 16									
T 22	11 36	23 20	0 12	15 30	1 37	6 49	1 0	22 14	0 33	22 39	0 19	19 56	0 29	23 6	0 2	6 27	1 37	22 5	7 41	23 16	23 12	13 47	12 21	1 17									
W23	11 16	22 20	1n 0	14 53	1 40	7 18	1 5	22 19	0 32	22 39	0 19	19 57	0 29	23 6	0 2	6 27	1 37	22 4	7 41	23 16	23 12	13 49	12 23	1 17									
T 24	10 56	20 6	2 6	14 14	1 43	7 47	1 10	22 23	0 31	22 39	0 19	19 58	0 29	23 6	0 2	6 26	1 37	22 4	7 41	23 16	23 12	13 51	12 24	1 17									
F 25	10 35	16 51	3 5	13 34	1 44	8 16	1 16	22 28	0 30	22 40	0 18	19 59	0 29	23 6	0 2	6 26	1 37	22 3	7 42	23 16	23 12	13 53	12 26	1 17									
S 26	10 14	12 52	3 54	12 53	1 46	8 45	1 22	22 32	0 29	22 40	0 18	20 0	0 29	23 6	0 2	6 25	1 38	22 3	7 42	23 15	23 11	13 55	12 28	1 17									
S 27	9 53	8 22	4 30	12 10	1 46	9 14	1 27	22 35	0 28	22 40	0 18	20 1	0 29	23 6	0 2	6 25	1 38	22 2	7 42	23 15	23 11	13 57	12 29	1 17									
M28	9 32	3 36	4 52	11 26	1 45	9 42	1 33	22 39	0 27	22 41	0 18	20 2	0 30	23 7	0 2	6 25	1 38	22 2	7 42	23 14	23 11	13 59	12 31	1 18									
T 29	9 11	1n14	5 1	10 42	1 44	10 11	1 39	22 43	0 26	22 41	0 18	20 2	0 30	23 7	0 2	6 24	1 38	22 1	7 42	23 13	23 11	14 1	12 33	1 18									
W30	8 49	5 57	4 56	9 57	1 43	10 39	1 44	22 46	0 25	22 41	0 18	20 3	0 30	23 7	0 2	6 24	1 38	22 1	7 42	23 13	23 11	14 3	12 34	1 18									
T 31	8n28	10n23	4n37	9n11	1n41	11s 6	1s50	22n49	0s23	22s42	0n17	20s 4	0s30	23n 7	0n 2	6n23	1s38	22n 1	7n42	23s12	23s10	14n 5	12s36	1n18									

Julian Day Number = 2523710.5, Delta T = 160.65 sec
Ecliptic obliquity = 23°24'48, Nutation = 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°30'05, Lahiri = 26°37'06

ASTRODIENST EPHEMERIS for the year 2197

geocentric

SEPTEMBER 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 43 2	9 ^h 13'31	27 ^h 27'	12 ^h 24'	25 ^h 16'	23 ^h 17'	19 ^h 25'	2°R26	20 ^h 35'	20°R12	20 ^h 18'	22°R21	21 ^h 59'	26 ^h 22'	7 ^h 11	F 1
S 2	22 46 58	10°11'30	9 ^h 17'	14°18'	26°16'	23°54'	19°28'	2°23'	20°36'	20°Y11	20°19'	22°15'	21°56'	26°29'	7°11	S 2
S 3	22 50 55	11° 9'30	21° 7'	16°11'	27°16'	24°30'	19°32'	2°20'	20°38'	20°10'	20°21'	22°11'	21°52'	26°36'	7°17	S 3
M 4	22 54 51	12° 7'33	3 ^h 11'	18° 3'	28°15'	25° 6'	19°35'	2°17'	20°39'	20° 9'	20°23'	22°10'	21°49'	26°42'	7°23	M 4
T 5	22 58 48	13° 5'38	15° 9'	19°53'	29°14'	25°42'	19°39'	2°14'	20°40'	20° 8'	20°25'	22°10'	21°46'	26°49'	7°29	T 5
W 6	23 2 44	14° 3'44	27°30'	21°42'	0 ^h 13'	26°18'	19°43'	2°11'	20°41'	20° 6'	20°26'	22°10'	21°43'	26°56'	7°36	W 6
T 7	23 6 41	15° 1'53	10 ^h 13'	23°30'	1°11'	26°53'	19°47'	2° 9'	20°42'	20° 5'	20°28'	22° 9'	21°40'	27° 2'	7°42	T 7
F 8	23 10 37	16° 0'03	23°21'	25°17'	2° 9'	27°29'	19°51'	2° 6'	20°43'	20° 4'	20°30'	22° 6'	21°37'	27° 9'	7°48	F 8
S 9	23 14 34	16°58'15	6 ^h 15'	27° 2'	3° 6'	28° 4'	19°55'	2° 4'	20°44'	20° 2'	20°31'	22° 0'	21°33'	27°16'	7°55	S 9
S 10	23 18 31	17°56'29	21° 1'	28°46'	4° 3'	28°39'	20° 0'	2° 1'	20°45'	20° 1'	20°33'	21°53'	21°30'	27°22'	8° 1	S 10
M11	23 22 27	18°54'45	5 ^h 31'	0 ^h 30'	4°59'	29°14'	20° 5'	1°59'	20°45'	20° 0'	20°35'	21°42'	21°27'	27°29'	8° 8	M11
T 12	23 26 24	19°53'03	20°22'	2°11'	5°55'	29°49'	20° 9'	1°57'	20°46'	19°58'	20°36'	21°31'	21°24'	27°36'	8°14	T 12
W13	23 30 20	20°51'23	5 ^h 24'	3°52'	6°51'	0 ^h 23'	20°14'	1°55'	20°47'	19°57'	20°38'	21°20'	21°21'	27°43'	8°21	W13
T 14	23 34 17	21°49'44	20°27'	5°32'	7°46'	0°58'	20°20'	1°52'	20°47'	19°56'	20°40'	21°10'	21°18'	27°49'	8°28	T 14
F 15	23 38 13	22°48'07	5 ^h 13'	7°10'	8°40'	1°32'	20°25'	1°50'	20°48'	19°54'	20°41'	21° 3'	21°14'	27°56'	8°35	F 15
S 16	23 42 10	23°46'32	20° 3'	8°48'	9°35'	2° 5'	20°30'	1°49'	20°48'	19°53'	20°43'	20°58'	21°11'	28° 3'	8°42	S 16
S 17	23 46 6	24°44'58	4 ^h 23'	10°24'	10°28'	2°39'	20°36'	1°47'	20°49'	19°51'	20°44'	20°56'	21° 8'	28° 9'	8°48	S 17
M18	23 50 3	25°43'26	18°21'	11°59'	11°21'	3°13'	20°42'	1°45'	20°49'	19°50'	20°46'	20°55'	21° 5'	28°16'	8°55	M18
T 19	23 53 59	26°41'55	1 ^h 35'	13°34'	12°13'	3°46'	20°48'	1°43'	20°50'	19°48'	20°48'	20°55'	21° 2'	28°23'	9° 3	T 19
W20	23 57 56	27°40'26	15°14'	15° 7'	13° 5'	4°19'	20°54'	1°42'	20°50'	19°47'	20°49'	20°54'	20°58'	28°29'	9°10	W20
T 21	0 1 53	28°38'59	28°13'	16°39'	13°56'	4°52'	21° 0'	1°40'	20°50'	19°45'	20°51'	20°52'	20°55'	28°36'	9°17	T 21
F 22	0 5 49	29°37'33	10 ^h 59'	18°10'	14°46'	5°24'	21° 7'	1°39'	20°51'	19°44'	20°52'	20°46'	20°52'	28°43'	9°24	F 22
S 23	0 9 46	0 ^h 36'09	23°32'	19°40'	15°36'	5°57'	21°13'	1°38'	20°51'	19°42'	20°54'	20°38'	20°49'	28°50'	9°31	S 23
S 24	0 13 42	1°34'47	5 ^h 55'	21° 9'	16°25'	6°29'	21°20'	1°37'	20°51'	19°41'	20°55'	20°27'	20°46'	28°56'	9°39	S 24
M25	0 17 39	2°33'26	18° 9'	22°37'	17°13'	7° 1'	21°27'	1°36'	20°51'	19°39'	20°57'	20°14'	20°43'	29° 3'	9°46	M25
T 26	0 21 35	3°32'07	0°Y16	24° 3'	18° 0'	7°32'	21°34'	1°35'	20°R51	19°37'	20°58'	20° 1'	20°39'	29°10'	9°53	T 26
W27	0 25 32	4°30'50	12°16'	25°29'	18°47'	8° 4'	21°41'	1°34'	20°51'	19°36'	20°59'	19°47'	20°36'	29°16'	10° 1	W27
T 28	0 29 28	5°29'36	24°10'	26°54'	19°32'	8°35'	21°48'	1°33'	20°51'	19°34'	21° 1'	19°35'	20°33'	29°23'	10° 8	T 28
F 29	0 33 25	6°28'23	6 ^h 0'	28°17'	20°17'	9° 6'	21°56'	1°32'	20°51'	19°33'	21° 2'	19°26'	20°30'	29°30'	10°16	F 29
S 30	0 37 22	7 ^h 27'12	17 ^h 49'	29 ^h 40'	21 ^h 11'	9 ^h 37'	22 ^h 24'	1 ^h 32'	20 ^h 50'	19 ^h 31'	21 ^h 11'	19 ^h 27'	20 ^h 27'	29 ^h 36'	10 ^h 23	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8n 6	14n24	4n 7	8n24	1n38	11s34	1s56	22n52	0s22	22s42	0n17	20s 5	0s30	23n 7	0n 2	F 1
S 2	7 44	17 50	3 26	7 38	1 35	12 2	2 2	22 55	0 21	22 43	0 17	20 5	0 30	23 7	0 2	S 2
S 3	7 22	20 32	2 36	6 51	1 31	12 29	2 8	22 58	0 20	22 43	0 17	20 6	0 30	23 7	0 2	S 3
M 4	7 0	22 22	1 39	6 3	1 27	12 56	2 14	23 0	0 19	22 44	0 17	20 7	0 30	23 7	0 2	M 4
T 5	6 38	23 12	0 37	5 16	1 22	13 22	2 20	23 3	0 18	22 44	0 17	20 8	0 30	23 7	0 2	T 5
W 6	6 16	22 55	0s28	4 29	1 18	13 49	2 26	23 5	0 17	22 44	0 16	20 8	0 30	23 7	0 2	W 6
T 7	5 53	21 27	1 34	3 41	1 12	14 15	2 32	23 7	0 16	22 45	0 16	20 9	0 30	23 7	0 2	T 7
F 8	5 31	18 49	2 37	2 54	1 7	14 41	2 38	23 9	0 14	22 45	0 16	20 9	0 30	23 8	0 2	F 8
S 9	5 8	15 5	3 33	2 7	1 1	15 6	2 44	23 11	0 13	22 46	0 16	20 10	0 30	23 8	0 2	S 9
S 10	4 46	10 23	4 18	1 20	0 55	15 32	2 51	23 12	0 12	22 46	0 16	20 11	0 30	23 8	0 2	S 10
M11	4 23	5 0	4 49	0 33	0 49	15 57	2 57	23 14	0 11	22 47	0 16	20 11	0 30	23 8	0 2	M11
T 12	4 0	0s47	5 0	0s13	0 42	16 21	3 3	23 15	0 9	22 47	0 16	20 12	0 30	23 8	0 2	T 12
W13	3 37	6 36	4 51	0 59	0 36	16 46	3 9	23 17	0 8	22 48	0 15	20 12	0 30	23 8	0 2	W13
T 14	3 14	12 2	4 22	1 45	0 29	17 10	3 15	23 18	0 7	22 48	0 15	20 13	0 30	23 8	0 2	T 14
F 15	2 51	16 41	3 36	2 31	0 22	17 33	3 21	23 19	0 6	22 49	0 15	20 13	0 30	23 8	0 2	F 15
S 16	2 28	20 14	2 35	3 15	0 15	17 57	3 28	23 19	0 4	22 50	0 15	20 14	0 30	23 8	0 2	S 16
S 17	2 5	22 25	1 26	4 0	0 7	18 19	3 34	23 20	0 3	22 50	0 15	20 14	0 30	23 8	0 2	S 17
M18	1 42	23 8	0 14	4 44	0 0	18 42	3 40	23 21	0 2	22 51	0 15	20 15	0 30	23 8	0 2	M18
T 19	1 19	22 26	0n58	5 27	0s 7	19 4	3 46	23 21	0 1	22 51	0 14	20 15	0 31	23 8	0 2	T 19
W20	0 55	20 29	2 5	6 10	0 15	19 26	3 52	23 21	0n 1	22 52	0 14	20 15	0 31	23 8	0 2	W20
T 21	0 32	17 30	3 3	6 53	0 22	19 47	3 58	23 22	0 2	22 52	0 14	20 16	0 31	23 8	0 2	T 21
F 22	0 9	13 44	3 52	7 35	0 30	20 8	4 4	23 22	0 4	22 53	0 14	20 16	0 31	23 8	0 2	F 22
S 23	0s14	9 26	4 28	8 16	0 38	20 29	4 10	23 22	0 5	22 54	0 14	20 16	0 31	23 8	0 2	S 23
S 24	0 38	4 49	4 51	8 56	0 45	20 49	4 16	23 22	0 6	22 54	0 14	20 17	0 31	23 8	0 2	S 24
M25	1 1	0 4	5 0	9 36	0 53	21 9	4 22	23 21	0 8	22 55	0 14	20 17	0 31	23 8	0 2	M25
T 26	1 24	4n38	4 56	10 16	1 0	21 28	4 28	23 21	0 9	22 55	0 13	20 17	0 31	23 8	0 2	T 26
W27	1 48	9 6	4 38	10 54	1 8	21 47	4 34	23 21	0 11	22 56	0 13	20 17	0 31	23 8	0 2	W27
T 28	2 11	13 12	4 8	11 32	1 16	22 5	4 40	23 20	0 12	22 57	0 13	20 18	0 31	23 8	0 2	T 28
F 29	2 34	16 47	3 28	12 9	1 23	22 23	4 46	23 20	0 14	22 57	0 13	20 18	0 31	23 8	0 3	F 29
S 30	2s57	19n40	2n39	12s45	1s31	22s40	4s51	23n19	0n15	22s58	0n13	20s18	0s31	23n 8	0n 3	S 30

Julian Day Number = 2523741.5, Delta T = 160.73 sec

Ecliptic obliquity = 23°24'48, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°30'09, Lahiri = 26°37'10

ASTRODIENST EPHEMERIS for the year 2197

geocentric

OCTOBER 2197

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 41 18	8♌26°04	29♌39	1♌1	21♌44	10♌7	22♌11	1°R31	20°R50	19°R29	21♌5	19°R15	20♌24	29♌43	10♌31	S 1
M 2	0 45 15	9°24'58	11♌34	2°21	22°26	10°37	22°19	1°31	20°50	19°28	21°6	19°13	20°20	29°50	10°39	M 2
T 3	0 49 11	10°23'54	23°38	3°40	23°7	11°7	22°27	1°31	20°50	19°26	21°8	19°D13	20°17	29°56	10°46	T 3
W 4	0 53 8	11°22'53	5♌57	4°57	23°46	11°37	22°35	1°30	20°49	19°24	21°9	19°R13	20°14	0♌3	10°54	W 4
T 5	0 57 4	12°21'53	18°36	6°13	24°25	12°6	22°43	1°D30	20°49	19°23	21°10	19°13	20°11	0°10	11°2	T 5
F 6	1 1 1	13°20'56	1♌39	7°28	25°3	12°35	22°52	1°30	20°48	19°21	21°11	19°11	20°8	0°16	11°10	F 6
S 7	1 4 57	14°20'01	15°10	8°41	25°39	13°4	23°0	1°30	20°48	19°19	21°13	19°8	20°4	0°23	11°17	S 7
S 8	1 8 54	15°19'09	29°12	9°52	26°14	13°32	23°9	1°31	20°47	19°18	21°14	19°2	20°1	0°30	11°25	S 8
M 9	1 12 51	16°18'19	13♌42	11°2	26°48	14°0	23°18	1°31	20°46	19°16	21°15	18°54	19°58	0°37	11°33	M 9
T 10	1 16 47	17°17'31	28°36	12°10	27°21	14°28	23°27	1°31	20°46	19°14	21°16	18°44	19°55	0°43	11°41	T 10
W 11	1 20 44	18°16'45	13♌48	13°16	27°52	14°56	23°36	1°32	20°45	19°13	21°17	18°35	19°52	0°50	11°49	W 11
T 12	1 24 40	19°16'01	29°5	14°19	28°21	15°23	23°45	1°33	20°44	19°11	21°18	18°27	19°49	0°57	11°57	T 12
F 13	1 28 37	20°15'19	14♌16	15°20	28°49	15°50	23°54	1°33	20°43	19°9	21°19	18°20	19°45	1°3	12°5	F 13
S 14	1 32 33	21°14'39	29°14	16°19	29°16	16°16	24°3	1°34	20°42	19°8	21°21	18°16	19°42	1°10	12°13	S 14
S 15	1 36 30	22°14'01	13♌49	17°14	29°41	16°42	24°13	1°35	20°41	19°6	21°22	18°D15	19°39	1°17	12°21	S 15
M 16	1 40 26	23°13'25	27°58	18°7	0♌4	17°8	24°22	1°36	20°40	19°4	21°23	18°15	19°36	1°23	12°29	M 16
T 17	1 44 23	24°12'51	11♌42	18°56	0°25	17°33	24°32	1°37	20°39	19°3	21°24	18°16	19°33	1°30	12°38	T 17
W 18	1 48 20	25°12'18	25°0	19°41	0°45	17°58	24°42	1°38	20°38	19°1	21°25	18°R17	19°29	1°37	12°46	W 18
T 19	1 52 16	26°11'47	7♌57	20°22	1°2	18°23	24°52	1°40	20°37	18°59	21°26	18°16	19°26	1°43	12°54	T 19
F 20	1 56 13	27°11'17	20°36	20°59	1°18	18°47	25°2	1°41	20°36	18°58	21°26	18°13	19°23	1°50	13°2	F 20
S 21	2 0 9	28°10'50	3♌0	21°30	1°32	19°11	25°12	1°43	20°35	18°56	21°27	18°8	19°20	1°57	13°10	S 21
S 22	2 4 6	29°10'24	15°12	21°56	1°43	19°35	25°22	1°44	20°33	18°54	21°28	18°1	19°17	2°4	13°19	S 22
M 23	2 8 2	0♌10'00	27°16	22°16	1°53	19°58	25°33	1°46	20°32	18°53	21°29	17°53	19°14	2°10	13°27	M 23
T 24	2 11 59	1°9'37	9♌14	22°29	2°0	20°20	25°43	1°48	20°31	18°51	21°30	17°43	19°10	2°17	13°35	T 24
W 25	2 15 55	2°9'17	21°7	22°R36	2°5	20°42	25°54	1°50	20°29	18°50	21°31	17°34	19°7	2°24	13°43	W 25
T 26	2 19 52	3°8'59	2♌58	22°34	2°7	21°4	26°4	1°52	20°28	18°48	21°31	17°26	19°4	2°30	13°52	T 26
F 27	2 23 48	4°8'42	14°48	22°24	2°R8	21°26	26°15	1°54	20°26	18°46	21°32	17°20	19°1	2°37	14°0	F 27
S 28	2 27 45	5°8'28	26°39	22°6	2°5	21°47	26°26	1°56	20°25	18°45	21°33	17°16	18°58	2°44	14°8	S 28
S 29	2 31 42	6°8'16	8♌33	21°39	2°1	22°7	26°37	1°58	20°23	18°43	21°34	17°13	18°55	2°50	14°17	S 29
M 30	2 35 38	7°8'06	20°33	21°2	1°54	22°27	26°48	2°1	20°22	18°42	21°34	17°D13	18°51	2°57	14°25	M 30
T 31	2 39 35	8♌7'58	2♌42	20♌16	1♌45	22♌47	26♌59	2°3	20♌20	18♌40	21♌35	17♌14	18♌48	3♌4	14♌33	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	3s20	21n43	1n42	13s21	1s38	22s57	4s57	23n18	0n17	22s58	0n13	20s18	0s31	23n8	0n3	6n6	1s39
M 2	3 44	22 49	0 41	13 55	1 45	23 13	5 2	23 17	0 18	22 59	0 13	20 18	0 31	23 8	0 3	6 5	1 39
T 3	4 7	22 52	0s24	14 29	1 52	23 29	5 8	23 16	0 20	22 59	0 12	20 18	0 31	23 8	0 3	6 4	1 39
W 4	4 30	21 49	1 28	15 2	1 59	23 45	5 13	23 15	0 21	23 0	0 12	20 18	0 31	23 8	0 3	6 4	1 39
T 5	4 53	19 39	2 30	15 34	2 6	23 59	5 18	23 14	0 23	23 1	0 12	20 18	0 31	23 8	0 3	6 3	1 39
F 6	5 16	16 25	3 26	16 5	2 13	24 14	5 23	23 13	0 24	23 1	0 12	20 19	0 31	23 8	0 3	6 3	1 39
S 7	5 39	12 14	4 13	16 35	2 19	24 28	5 28	23 12	0 26	23 2	0 12	20 19	0 31	23 8	0 3	6 2	1 39
S 8	6 2	7 16	4 46	17 4	2 26	24 41	5 33	23 11	0 28	23 2	0 12	20 18	0 31	23 8	0 3	6 1	1 39
M 9	6 24	1 44	5 3	17 31	2 32	24 53	5 38	23 10	0 29	23 3	0 12	20 18	0 31	23 8	0 3	6 1	1 39
T 10	6 47	4s 2	5 0	17 58	2 37	25 5	5 42	23 8	0 31	23 4	0 11	20 18	0 31	23 8	0 3	6 0	1 39
W 11	7 10	9 40	4 36	18 23	2 43	25 17	5 46	23 7	0 33	23 4	0 11	20 18	0 31	23 8	0 3	5 59	1 39
T 12	7 32	14 44	3 52	18 47	2 48	25 28	5 50	23 6	0 34	23 5	0 11	20 18	0 31	23 8	0 3	5 59	1 39
F 13	7 54	18 50	2 51	19 10	2 53	25 38	5 54	23 4	0 36	23 5	0 11	20 18	0 31	23 8	0 3	5 58	1 39
S 14	8 17	21 36	1 40	19 32	2 57	25 47	5 58	23 3	0 38	23 6	0 11	20 18	0 31	23 8	0 3	5 57	1 39
S 15	8 39	22 50	0 24	19 51	3 1	25 56	6 2	23 1	0 39	23 6	0 11	20 18	0 31	23 8	0 3	5 57	1 39
M 16	9 1	22 32	0n52	20 10	3 5	26 5	6 5	23 0	0 41	23 7	0 11	20 18	0 31	23 8	0 3	5 56	1 39
T 17	9 23	20 52	2 3	20 26	3 8	26 12	6 8	22 58	0 43	23 7	0 11	20 17	0 31	23 8	0 3	5 56	1 39
W 18	9 45	18 5	3 4	20 41	3 10	26 19	6 10	22 57	0 45	23 8	0 10	20 17	0 31	23 8	0 3	5 55	1 39
T 19	10 6	14 29	3 55	20 54	3 12	26 25	6 13	22 56	0 47	23 8	0 10	20 17	0 31	23 8	0 3	5 54	1 39
F 20	10 28	10 18	4 32	21 5	3 13	26 30	6 15	22 54	0 49	23 9	0 10	20 16	0 31	23 8	0 3	5 54	1 39
S 21	10 49	5 47	4 57	21 13	3 13	26 35	6 16	22 53	0 51	23 9	0 10	20 16	0 31	23 7	0 3	5 53	1 39
S 22	11 10	1 6	5 7	21 19	3 12	26 39	6 18	22 51	0 52	23 10	0 10	20 16	0 32	23 7	0 3	5 52	1 39
M 23	11 31	3n33	5 3	21 23	3 10	26 42	6 19	22 50	0 54	23 10	0 10	20 15	0 32	23 7	0 3	5 52	1 39
T 24	11 52	8 2	4 46	21 23	3 7	26 44	6 19	22 48	0 56	23 11	0 10	20 15	0 32	23 7	0 3	5 51	1 39
W 25	12 13	12 12	4 17	21 21	3 3	26 45	6 19	22 47	0 58	23 11	0 10	20 15	0 32	23 7	0 3	5 51	1 39
T 26	12 33	15 53	3 36	21 16	2 58	26 45	6 19	22 45	1 0	23 12	0 9	20 14	0 32	23 7	0 3	5 50	1 39
F 27	12 53	18 55	2 47	21 6	2 51	26 44	6 18	22 44	1 2	23 12	0 9	20 14	0 32	23 7	0 3	5 49	1 39
S 28	13 13	21 10	1 49	20 54	2 43	26 42	6 17	22 43	1 4	23 13	0 9	20 13	0 32	23 7	0 3	5 49	1 39
S 29	13 33	22 29	0 47	20 37	2 33	26 39	6 15	22 42	1 6	23 13	0 9	20 13	0 32	23 7	0 3	5 48	1 39
M 30	13 53	22 47	0s18	20 16	2 21	26 35	6 12	22 40	1 9	23 13	0 9	20 12	0 32	23 7	0 3	5 48	1 39
T 31	14s12	22n 0	1s23	19s50	2s 7	26s30	6s 9	22n39	1n11	23s14	0n 9	20s12	0s32	23n 7	0n 3	5n47	1s39

Julian Day Number = 2523771.5, Delta T = 160.81 sec
 Ecliptic obliquity = 23°24'48, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°30'14, Lahiri = 26°37'14

ASTRODIENST EPHEMERIS for the year 2197
geocentric

NOVEMBER 2197

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 43 31	9♉ 7°52	15♊ 3	19°R22	1°R33	23♊ 6	27♊10	2♊ 6	20°R18	18°R38	21♊36	17♊16	18♊45	3♊10	14♉42	W 1
T 2	2 47 28	10° 7'48	27°42	18♉20	1♊19	23°24	27°21	2° 8	20♉16	18°Y37	21°36	17°17	18°42	3°17	14°50	T 2
F 3	2 51 24	11° 7'47	10♊41	17°11	1° 2	23°42	27°33	2°11	20°15	18°35	21°37	17°R18	18°39	3°24	14°59	F 3
S 4	2 55 21	12° 7'47	24° 5	15°56	0°43	23°59	27°44	2°14	20°13	18°34	21°37	17°17	18°35	3°30	15° 7	S 4
S 5	2 59 17	13° 7'50	7♉55	14°39	0°22	24°16	27°55	2°17	20°11	18°32	21°38	17°15	18°32	3°37	15°15	S 5
M 6	3 3 14	14° 7'55	22°13	13°21	29♉59	24°33	28° 7	2°20	20° 9	18°31	21°38	17°11	18°29	3°44	15°24	M 6
T 7	3 7 11	15° 8'02	6♊56	12° 4	29°33	24°49	28°19	2°23	20° 7	18°29	21°39	17° 7	18°26	3°50	15°32	T 7
W 8	3 11 7	16° 8'11	21°57	10°52	29° 6	25° 4	28°31	2°26	20° 5	18°28	21°39	17° 2	18°23	3°57	15°40	W 8
T 9	3 15 4	17° 8'22	7♉10	9°46	28°37	25°18	28°42	2°29	20° 3	18°27	21°40	16°58	18°20	4° 4	15°49	T 9
F 10	3 19 0	18° 8'34	22°24	8°48	28° 6	25°33	28°54	2°33	20° 1	18°25	21°40	16°55	18°16	4°11	15°57	F 10
S 11	3 22 57	19° 8'49	7♊27	8° 0	27°34	25°46	29° 6	2°36	19°59	18°24	21°40	16°53	18°13	4°17	16° 6	S 11
S 12	3 26 53	20° 9'06	22°13	7°23	27° 1	25°59	29°18	2°40	19°57	18°22	21°41	16°D53	18°10	4°24	16°14	S 12
M13	3 30 50	21° 9'24	6♊35	6°57	26°26	26°11	29°30	2°43	19°55	18°21	21°41	16°54	18° 7	4°31	16°22	M13
T 14	3 34 47	22° 9'43	20°30	6°43	25°51	26°23	29°43	2°47	19°53	18°20	21°41	16°56	18° 4	4°37	16°31	T 14
W15	3 38 43	23°10'04	3♊58	6°D41	25°15	26°33	29°55	2°51	19°51	18°18	21°41	16°57	18° 1	4°44	16°39	W15
T 16	3 42 40	24°10'26	17° 0	6°50	24°38	26°44	0♊ 7	2°55	19°48	18°17	21°42	16°58	17°57	4°51	16°47	T 16
F 17	3 46 36	25°10'49	29°40	7° 8	24° 2	26°53	0°20	2°59	19°46	18°16	21°42	16°R58	17°54	4°57	16°56	F 17
S 18	3 50 33	26°11'14	12♊ 3	7°37	23°25	27° 2	0°32	3° 3	19°44	18°15	21°42	16°57	17°51	5° 4	17° 4	S 18
S 19	3 54 29	27°11'40	24°11	8°14	22°49	27°10	0°45	3° 7	19°42	18°13	21°42	16°55	17°48	5°11	17°12	S 19
M20	3 58 26	28°12'08	6♊10	8°59	22°14	27°18	0°57	3°11	19°39	18°12	21°42	16°53	17°45	5°17	17°21	M20
T 21	4 2 22	29°12'37	18° 3	9°50	21°40	27°24	1°10	3°16	19°37	18°11	21°42	16°50	17°41	5°24	17°29	T 21
W22	4 6 19	0♊13'07	29°53	10°48	21° 6	27°30	1°23	3°20	19°35	18°10	21°R42	16°47	17°38	5°31	17°37	W22
T 23	4 10 15	1°13'39	11♊43	11°51	20°34	27°35	1°35	3°24	19°32	18° 9	21°42	16°44	17°35	5°37	17°45	T 23
F 24	4 14 12	2°14'12	23°36	12°58	20° 4	27°40	1°48	3°29	19°30	18° 8	21°42	16°43	17°32	5°44	17°54	F 24
S 25	4 18 9	3°14'46	5♉33	14°10	19°35	27°44	2° 1	3°33	19°27	18° 7	21°42	16°42	17°29	5°51	18° 2	S 25
S 26	4 22 5	4°15'22	17°36	15°25	19° 8	27°47	2°14	3°38	19°25	18° 6	21°42	16°D41	17°26	5°57	18°10	S 26
M27	4 26 2	5°16'00	29°47	16°42	18°43	27°49	2°27	3°43	19°23	18° 5	21°42	16°42	17°22	6° 4	18°18	M27
T 28	4 29 58	6°16'39	12♊ 8	18° 2	18°20	27°50	2°40	3°48	19°20	18° 4	21°42	16°42	17°19	6°11	18°26	T 28
W29	4 33 55	7°17'20	24°41	19°25	17°59	27°R51	2°53	3°53	19°18	18° 3	21°41	16°43	17°16	6°17	18°34	W29
T 30	4 37 51	8♊18'02	7♉28	20♉48	17♉41	27°550	3♊ 6	3♊58	19♉15	18°Y 2	21♉41	16♊44	17♊13	6♊24	18♉42	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s31	20n 9	2s26	19s21	1s52	26s24	6s 5	22n38	1n13	23s14	0n 9	20s11	0s32	23n 6	0n 3	5n47	1s39	21n47	7n56	22s48	22s56	16n 1	14s46	1n31	
T 2	14 50	17 17	3 23	18 48	1 35	26 17	6 1	22 37	1 15	23 15	0 9	20 11	0 32	23 6	0 3	5 46	1 39	21 48	7 57	22 48	22 56	16 3	14 49	1 32	
F 3	15 9	13 30	4 11	18 11	1 17	26 9	5 56	22 36	1 17	23 15	0 9	20 10	0 32	23 6	0 3	5 45	1 39	21 48	7 57	22 48	22 56	16 4	14 51	1 32	
S 4	15 28	8 57	4 47	17 31	0 58	25 59	5 50	22 35	1 19	23 15	0 8	20 9	0 32	23 6	0 3	5 45	1 39	21 48	7 57	22 48	22 55	16 6	14 53	1 32	
S 5	15 46	3 49	5 8	16 49	0 38	25 48	5 44	22 35	1 22	23 16	0 8	20 9	0 32	23 6	0 3	5 44	1 39	21 48	7 57	22 48	22 55	16 8	14 55	1 32	
M 6	16 4	1s41	5 11	16 6	0 17	25 36	5 37	22 34	1 24	23 16	0 8	20 8	0 32	23 6	0 3	5 44	1 39	21 48	7 58	22 48	22 55	16 9	14 57	1 33	
T 7	16 21	7 15	4 54	15 23	0n 4	25 23	5 29	22 33	1 26	23 16	0 8	20 8	0 32	23 6	0 3	5 43	1 39	21 48	7 58	22 47	22 55	16 11	14 59	1 33	
W 8	16 39	12 31	4 17	14 41	0 24	25 8	5 20	22 33	1 29	23 16	0 8	20 7	0 32	23 6	0 3	5 43	1 38	21 48	7 58	22 47	22 54	16 13	15 2	1 33	
T 9	16 56	17 3	3 21	14 2	0 43	24 53	5 11	22 33	1 31	23 17	0 8	20 6	0 32	23 5	0 3	5 42	1 38	21 48	7 59	22 47	22 54	16 14	15 4	1 33	
F 10	17 13	20 27	2 10	13 27	1 1	24 36	5 1	22 32	1 33	23 17	0 8	20 5	0 32	23 5	0 3	5 42	1 38	21 49	7 59	22 46	22 54	16 16	15 6	1 34	
S 11	17 29	22 23	0 52	12 56	1 17	24 18	4 50	22 32	1 36	23 17	0 8	20 5	0 32	23 5	0 3	5 41	1 38	21 49	7 59	22 46	22 53	16 18	15 8	1 34	
S 12	17 46	22 42	0n29	12 30	1 32	24 0	4 39	22 32	1 38	23 17	0 8	20 4	0 32	23 5	0 3	5 41	1 38	21 49	8 0	22 46	22 53	16 20	15 10	1 34	
M13	18 2	21 29	1 46	12 10	1 45	23 40	4 27	22 32	1 41	23 17	0 7	20 3	0 32	23 5	0 3	5 40	1 38	21 49	8 0	22 46	22 53	16 21	15 12	1 35	
T 14	18 17	18 58	2 55	11 55	1 56	23 19	4 15	22 33	1 43	23 17	0 7	20 2	0 32	23 5	0 3	5 40	1 38	21 49	8 0	22 46	22 53	16 23	15 14	1 35	
W15	18 33	15 30	3 51	11 46	2 4	22 58	4 1	22 33	1 46	23 18	0 7	20 1	0 32	23 5	0 3	5 39	1 38	21 49	8 0	22 46	22 52	16 25	15 16	1 35	
T 16	18 48	11 23	4 33	11 43	2 11	22 35	3 48	22 34	1 48	23 18	0 7	20 0	0 32	23 4	0 3	5 39	1 38	21 50	8 1	22 47	22 52	16 26	15 19	1 35	
F 17	19 2	6 52	5 1	11 44	2 17	22 13	3 34	22 34	1 51	23 18	0 7	20 0	0 32	23 4	0 3	5 38	1 38	21 50	8 1	22 47	22 52	16 28	15 21	1 36	
S 18	19 17	2 11	5 14	11 49	2 20	21 49	3 19	22 35	1 54	23 18	0 7	19 59	0 32	23 4	0 3	5 38	1 38	21 50	8 1	22 46	22 52	16 30	15 23	1 36	
S 19	19 31	2n29	5 13	11 59	2 22	21 26	3 5	22 36	1 56	23 18	0 7	19 58	0 32	23 4	0 3	5 37	1 38	21 50	8 2	22 46	22 51	16 31	15 25	1 36	
M20	19 44	7 0	4 58	12 13	2 23	21 2	2 49	22 37	1 59	23 18	0 7	19 57	0 32	23 4	0 3	5 37	1 38	21 51	8 2	22 46	22 51	16 33	15 27	1 37	
T 21	19 58	11 14	4 30	12 29	2 23	20 38	2 34	22 38	2 1	23 18	0 7	19 56	0 32	23 4	0 3	5 37	1 38	21 51	8 2	22 46	22 51	16 34	15 29	1 37	
W22	20 10	15 1	3 51	12 48	2 22	20 15	2 19	22 40	2 4	23 18	0 6	19 55	0 32	23 3	0 3	5 36	1 38	21 51	8 3	22 45	22 50	16 36	15 31	1 37	
T 23	20 23	18 13	3 2	13 10	2 19	19 51	2 3	22 42	2 7	23 18	0 6	19 54	0 32	23 3	0 3	5 36	1 38	21 51	8 3	22 45	22 50	16 38	15 33	1 38	
F 24	20 35	20 40	2 4	13 33	2 16	19 28	1 48	22 43	2 10	23 18	0 6	19 53	0 32	23 3	0 3	5 35	1 38	21 52	8 3	22 45	22 50	16 39	15 35	1 38	
S 25	20 47	22 13	1 1	13 58	2 13	19 5	1 32	22 45	2 12	23 18	0 6	19 52	0 32	23 3	0 3	5 35	1 38	21 52	8 3	22 45	22 49	16 41	15 37	1 38	
S 26	20 58	22 45	0s 5	14 24	2 8	18 43	1 17	22 47	2 15	23 18	0 6	19 51	0 32	23 3	0 3	5 35	1 38	21 52	8 4	22 45	22 49	16 43	15 39	1 39	
M27	21 9	22 13	1 12	14 50	2 3	18 22	1 2	22 50	2 18	23 17	0 6	19 50	0 32	23 2	0 3	5 34	1 38	21 53	8 4	22 45	22 49	16 44	15 40	1 39	
T 28	21 20	20 36	2 17	15 18	1 58	18 1	0 47	22 52	2 21	23 17	0 6	19 48	0 32	23 2	0 3	5 34	1 38	21 53	8 4	22 45	22 49	16 46	15 42	1 39	
W29	21 30	17 57	3 16	15 46	1 52	17 41	0 32	22 55	2 24	23 17	0 6	19 47	0 33	23 2	0 3	5 34	1 38	21 53	8 5	22 45	22 48	16 47	15 44	1 40	
T 30	21s40	14n25	4s 6	16s14	1n46	17s22	0s17	22n58	2n27	23s17	0n 6	19s46	0s33	23n 2	0n 3	5n33	1s38	21n54	8n 5	22s45	22s48	16n49	15s46	1n40	

ASTRODIENST EPHEMERIS for the year 2197
geocentric

DECEMBER 2197

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	4 41 48	9♈18'45	20♊32	22♌14	17°R25	27°R49	3♎19	4♏3	19°R13	18°R 1	21°R41	16♑45	17♒10	6♈31	18♌50	F 1
S 2	4 45 45	10°19'30	3♎54	23°41	17♌12	27♎47	3°32	4° 8	19♊10	18♑ 0	21♊41	16°45	17° 7	6°38	18°59	S 2
S 3	4 49 41	11°20'17	17°36	25° 8	17° 1	27°44	3°46	4°13	19° 8	17°59	21°40	16°R45	17° 3	6°44	19° 6	S 3
M 4	4 53 38	12°21'05	1♋39	26°37	16°53	27°41	3°59	4°18	19° 5	17°58	21°40	16°45	17° 0	6°51	19°14	M 4
T 5	4 57 34	13°21'55	16° 2	28° 6	16°47	27°36	4°12	4°23	19° 3	17°57	21°40	16°45	16°57	6°58	19°22	T 5
W 6	5 1 31	14°22'46	0♌42	29°36	16°43	27°31	4°25	4°29	19° 0	17°57	21°39	16°44	16°54	7° 4	19°30	W 6
T 7	5 5 27	15°23'38	15°34	1♊7	16°D42	27°25	4°39	4°34	18°58	17°56	21°39	16°44	16°51	7°11	19°38	T 7
F 8	5 9 24	16°24'32	0♊30	2°38	16°44	27°18	4°52	4°40	18°55	17°55	21°39	16°D44	16°47	7°18	19°46	F 8
S 9	5 13 20	17°25'27	15°23	4° 9	16°48	27°10	5° 6	4°45	18°52	17°54	21°38	16°R44	16°44	7°24	19°54	S 9
S 10	5 17 17	18°26'23	0♋5	5°40	16°54	27° 1	5°19	4°51	18°50	17°54	21°38	16°44	16°41	7°31	20° 1	S 10
M 11	5 21 14	19°27'21	14°29	7°12	17° 3	26°51	5°33	4°56	18°47	17°53	21°37	16°44	16°38	7°38	20° 9	M 11
T 12	5 25 10	20°28'18	28°30	8°44	17°13	26°40	5°46	5° 2	18°45	17°53	21°37	16°44	16°35	7°44	20°17	T 12
W 13	5 29 7	21°29'17	12♋5	10°17	17°26	26°29	6° 0	5° 8	18°42	17°52	21°36	16°43	16°32	7°51	20°24	W 13
T 14	5 33 3	22°30'16	25°15	11°49	17°42	26°17	6°14	5°14	18°40	17°52	21°35	16°43	16°28	7°58	20°32	T 14
F 15	5 37 0	23°31'16	8♊2	13°21	17°59	26° 4	6°27	5°20	18°37	17°51	21°35	16°42	16°25	8° 4	20°40	F 15
S 16	5 40 56	24°32'16	20°28	14°54	18°18	25°50	6°41	5°26	18°35	17°51	21°34	16°D42	16°22	8°11	20°47	S 16
S 17	5 44 53	25°33'17	2♑37	16°27	18°39	25°35	6°54	5°32	18°32	17°50	21°34	16°42	16°19	8°18	20°54	S 17
M 18	5 48 49	26°34'18	14°36	18° 0	19° 2	25°20	7° 8	5°38	18°30	17°50	21°33	16°42	16°16	8°24	21° 2	M 18
T 19	5 52 46	27°35'20	26°27	19°33	19°27	25° 4	7°22	5°44	18°27	17°50	21°32	16°43	16°13	8°31	21° 9	T 19
W 20	5 56 43	28°36'22	8♋16	21° 6	19°53	24°47	7°36	5°50	18°25	17°49	21°31	16°44	16° 9	8°38	21°16	W 20
T 21	6 0 39	29°37'25	20° 7	22°39	20°22	24°30	7°49	5°56	18°22	17°49	21°31	16°46	16° 6	8°44	21°24	T 21
F 22	6 4 36	0♋38'28	2♑3	24°13	20°51	24°11	8° 3	6° 2	18°20	17°49	21°30	16°47	16° 3	8°51	21°31	F 22
S 23	6 8 32	1°39'31	14° 8	25°47	21°23	23°53	8°17	6° 9	18°17	17°48	21°29	16°R47	16° 0	8°58	21°38	S 23
S 24	6 12 29	2°40'36	26°23	27°20	21°56	23°33	8°31	6°15	18°15	17°48	21°28	16°47	15°57	9° 4	21°45	S 24
M 25	6 16 25	3°41'40	8♌50	28°54	22°30	23°13	8°45	6°21	18°12	17°48	21°27	16°46	15°53	9°11	21°52	M 25
T 26	6 20 22	4°42'45	21°30	0♋28	23° 6	22°53	8°58	6°28	18°10	17°48	21°26	16°44	15°50	9°18	21°59	T 26
W 27	6 24 18	5°43'51	4♊24	2° 3	23°43	22°31	9°12	6°34	18° 7	17°48	21°26	16°41	15°47	9°24	22° 6	W 27
T 28	6 28 15	6°44'57	17°30	3°37	24°22	22°10	9°26	6°41	18° 5	17°48	21°25	16°38	15°44	9°31	22°13	T 28
F 29	6 32 12	7°46'03	0♎51	5°12	25° 2	21°48	9°40	6°47	18° 3	17°D48	21°24	16°35	15°41	9°38	22°20	F 29
S 30	6 36 8	8°47'11	14°23	6°47	25°43	21°25	9°54	6°54	18° 0	17°48	21°23	16°32	15°38	9°44	22°26	S 30
S 31	6 40 5	9♋48'18	28♎9	8♋23	26♌25	21♎3	10♋8	7♏0	17♊58	17♑48	21♊22	16♑31	15♒34	9♈51	22♌33	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	decl	lat	decl	lat	decl	lat
F 1	21s49	10n 7	4s45	16s42	1n40	17s 4	0s 3	23n 1	2n29	23s17	0n 6	19s45	0s33	23n 2	0n 3	5n33	1s38	21n54	8n 5	22s45	22s48	16n51	15s48	1n40											
S 2	21 58	5 15	5 10	17 10	1 33	16 47	0n11	23 4	2 32	23 16	0 5	19 44	0 33	23 2	0 3	5 33	1 38	21 54	8 5	22 45	22 47	16 52	15 50	1 41											
S 3	22 7	0 1	5 18	17 38	1 26	16 31	0 24	23 7	2 35	23 16	0 5	19 43	0 33	23 1	0 3	5 32	1 38	21 55	8 6	22 45	22 47	16 54	15 52	1 41											
M 4	22 15	5s21	5 7	18 6	1 19	16 16	0 37	23 11	2 38	23 16	0 5	19 41	0 33	23 1	0 3	5 32	1 38	21 55	8 6	22 45	22 47	16 55	15 54	1 41											
T 5	22 23	10 34	4 37	18 33	1 12	16 2	0 50	23 15	2 41	23 16	0 5	19 40	0 33	23 1	0 3	5 32	1 38	21 56	8 6	22 45	22 46	16 57	15 55	1 42											
W 6	22 30	15 17	3 49	18 59	1 5	15 49	1 2	23 19	2 44	23 15	0 5	19 39	0 33	23 1	0 3	5 32	1 38	21 56	8 7	22 45	22 46	16 59	15 57	1 42											
T 7	22 37	19 7	2 45	19 25	0 58	15 38	1 14	23 23	2 47	23 15	0 5	19 38	0 33	23 1	0 3	5 31	1 37	21 56	8 7	22 45	22 46	17 0	15 59	1 42											
F 8	22 43	21 41	1 29	19 50	0 50	15 27	1 25	23 27	2 50	23 15	0 5	19 36	0 33	23 0	0 3	5 31	1 37	21 57	8 7	22 45	22 45	17 2	16 1	1 43											
S 9	22 49	22 44	0 8	20 15	0 43	15 18	1 36	23 32	2 53	23 14	0 5	19 35	0 33	23 0	0 3	5 31	1 37	21 57	8 7	22 45	22 45	17 3	16 2	1 43											
S 10	22 55	22 11	1n14	20 38	0 36	15 10	1 47	23 36	2 56	23 14	0 5	19 34	0 33	23 0	0 3	5 31	1 37	21 58	8 8	22 45	22 45	17 5	16 4	1 43											
M 11	23 0	20 10	2 28	21 1	0 29	15 3	1 56	23 41	2 58	23 13	0 5	19 33	0 33	23 0	0 3	5 31	1 37	21 58	8 8	22 45	22 45	17 6	16 6	1 44											
T 12	23 4	16 59	3 32	21 23	0 21	14 57	2 6	23 46	3 1	23 13	0 4	19 31	0 33	23 0	0 3	5 30	1 37	21 58	8 8	22 45	22 44	17 8	16 7	1 44											
W 13	23 8	12 58	4 22	21 44	0 14	14 51	2 15	23 51	3 4	23 12	0 4	19 30	0 33	22 59	0 3	5 30	1 37	21 59	8 9	22 45	22 44	17 9	16 9	1 44											
T 14	23 12	8 26	4 56	22 4	0 7	14 47	2 24	23 56	3 7	23 12	0 4	19 28	0 33	22 59	0 3	5 30	1 37	21 59	8 9	22 45	22 44	17 11	16 11	1 45											
F 15	23 15	3 41	5 14	22 23	0s 0	14 44	2 32	24 1	3 10	23 11	0 4	19 27	0 33	22 59	0 3	5 30	1 37	22 0	8 9	22 45	22 43	17 12	16 12	1 45											
S 16	23 18	1n 5	5 17	22 41	0 7	14 42	2 40	24 7	3 13	23 11	0 4	19 26	0 33	22 59	0 3	5 30	1 37	22 0	8 9	22 45	22 43	17 14	16 14	1 46											
S 17	23 20	5 43	5 5	22 57	0 14	14 41	2 47	24 12	3 15	23 10	0 4	19 24	0 33	22 58	0 3	5 30	1 37	22 1	8 10	22 45	22 43	17 16	16 16	1 46											
M 18	23 22	10 4	4 41	23 13	0 21	14 40	2 54	24 18	3 18	23 9	0 4	19 23	0 33	22 58	0 3	5 30	1 37	22 1	8 10	22 45	22 42	17 17	16 17	1 46											
T 19	23 23	13 59	4 4	23 27	0 27	14 41	3 0	24 23	3 21	23 9	0 4	19 21	0 33	22 58	0 3	5 30	1 37	22 2	8 10	22 45	22 42	17 19	16 19	1 47											
W 20	23 24	17 22	3 18	23 41	0 34	14 42	3 7	24 29	3 23	23 8	0 4	19 20	0 33	22 58	0 3	5 29	1 37	22 2	8 11	22 45	22 42	17 20	16 20	1 47											
T 21	23 25	20 2	2 23	23 53	0 40	14 44	3 12	24 35	3 26	23 7	0 4	19 18	0 33	22 58	0 3	5 29	1 37	22 3	8 11	22 45	22 41	17 22	16 22	1 47											
F 22	23 25	21 52	1 21	24 4	0 47	14 46	3 18	24 40	3 29	23 7	0 4	19 17	0 33	22 57	0 3	5 29	1 37	22 3	8 11	22 45	22 41	17 23	16 23	1 48											
S 23	23 24	22 43	0 15	24 13	0 53	14 49	3 23	24 46	3 31	23 6	0 3	19 15	0 33	22 57	0 3	5 29	1 37	22 4	8 11	22 45	22 41	17 25	16 25	1 48											
S 24	23 23	22 29	0s53	24 22	0 59	14 53	3 27	24 52	3 33	23 5	0 3	19 14	0 33	22 57	0 3	5 29	1 37	22 4	8 12	22 45	22 40	17 26	16 26	1 49											
M 25	23 22	21 8	1 59	24 29	1 4	14 58	3 32	24 58	3 36	23 4	0 3	19 12	0 33	22 57	0 3	5 29	1 37	22 5	8 12	22 45	22 40	17 27	16 27	1 49											
T 26	23 20	18 44	3 0	24 35	1 10	15 3	3 36	25 4	3 38	23 3	0 3	19 11	0 33	22 57	0 3	5 29	1 37	22 5	8 12	22 45	22 40	17 29	16 29	1 49											
W 27	23 17	15 21	3 54	24 39	1 15	15 8	3 39	25 9	3 40	23 3	0 3	19 9	0 34	22 56	0 3	5 29	1 37	22 6	8 12	22 45	22 39	17 30	16 30	1 50											
T 28	23 14	11 12	4 35	24 42	1 21	15 14	3 43	25 15	3 42	23 2	0 3	19 7	0 34	22 56	0 3	5 29	1 36	22 6	8 13	22 45	22 39	17 32	16 31	1 50											
F 29	23 11	6 26	5 3	24 44	1 26	15 21	3 46	25 21	3 44	23 1	0 3	19 6	0 34	22 56	0 3	5 29	1 36	22 7	8 13	22 44	22 39	17 33	16 33	1 51											
S 30	23 7	1 18	5 15	24 45	1 30	15 28	3 48	25 26	3 46	23 0	0 3	19 4	0 34	22 56	0 4	5 29	1 36	22 7	8 13	22 44	22 38	17 35	16 34	1 51											
S 31	23s 3	3s59	5s 8	24s44	1s35	15s35	3n51	25n32	3n48	22s59	0n 3	19s 3	0s34	22n56	0n 4	5n30	1s36	22n 8	8n13	22s44	22s38	17n36	16s35	1n52											