



# Astrodienst Ephemeris Tables for the year 1513

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 1513

## geocentric

JANUARY 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	7 19 8	20 <sup>3</sup> 1741	11 <sup>11</sup> 59	15 <sup>3</sup> 41	8 <sup>44</sup> 47	24 <sup>11</sup> 11	28 <sup>11</sup> 9	12 <sup>11</sup> 43	14 <sup>11</sup> 7	12 <sup>22</sup> 29	24 <sup>11</sup> 10	3 <sup>11</sup> 6	3 <sup>11</sup> 38	8 <sup>11</sup> 24	16 <sup>11</sup> 16	S 1
S 2	7 23 4	21°18'47	23°49	17°19	10° 2	24°54	28°18	12°47	14° 8	12°31	24°12	3 <sup>11</sup> 1	3°35	8°31	16°22	S 2
M 3	7 27 1	22°19'53	5 <sup>11</sup> 38	18°57	11°17	25°38	28°28	12°51	14° 9	12°33	24°14	2°54	3°32	8°38	16°28	M 3
T 4	7 30 57	23°20'59	17°30	20°36	12°32	26°21	28°37	12°54	14°10	12°35	24°16	2°44	3°29	8°44	16°34	T 4
W 5	7 34 54	24°22'04	29°28	22°16	13°47	27° 4	28°47	12°58	14°11	12°37	24°18	2°31	3°25	8°51	16°40	W 5
T 6	7 38 51	25°23'09	11 <sup>11</sup> 33	23°56	15° 2	27°47	28°57	13° 2	14°13	12°40	24°20	2°18	3°22	8°58	16°46	T 6
F 7	7 42 47	26°24'13	23°48	25°37	16°17	28°30	29° 7	13° 5	14°14	12°42	24°22	2° 5	3°19	9° 4	16°52	F 7
S 8	7 46 44	27°25'16	6 <sup>11</sup> 12	27°18	17°32	29°13	29°18	13° 9	14°15	12°44	24°24	1°53	3°16	9°11	16°58	S 8
S 9	7 50 40	28°26'18	18°46	29° 0	18°47	29°56	29°28	13°12	14°17	12°46	24°26	1°44	3°13	9°18	17° 4	S 9
M10	7 54 37	29°27'19	1 <sup>11</sup> 31	0 <sup>11</sup> 43	20° 2	0 <sup>11</sup> 39	29°38	13°16	14°18	12°48	24°28	1°37	3°10	9°25	17°10	M10
T 11	7 58 33	0 <sup>11</sup> 28'20	14°26	2°26	21°17	1°22	29°49	13°19	14°19	12°51	24°30	1°33	3° 6	9°31	17°16	T 11
W12	8 2 30	1°29'18	27°33	4°10	22°31	2° 5	29°59	13°22	14°21	12°53	24°32	1°D31	3° 3	9°38	17°21	W12
T 13	8 6 26	2°30'16	10 <sup>11</sup> 53	5°55	23°46	2°48	0 <sup>11</sup> 10	13°25	14°22	12°55	24°34	1°32	3° 0	9°45	17°27	T 13
F 14	8 10 23	3°31'13	24°28	7°40	25° 1	3°30	0°21	13°28	14°24	12°57	24°35	1°32	2°57	9°51	17°33	F 14
S 15	8 14 20	4°32'08	8 <sup>11</sup> 18	9°25	26°16	4°13	0°32	13°31	14°25	13° 0	24°37	1°R33	2°54	9°58	17°38	S 15
S 16	8 18 16	5°33'02	22°26	11°11	27°30	4°56	0°43	13°34	14°27	13° 2	24°39	1°31	2°51	10° 5	17°44	S 16
M17	8 22 13	6°33'54	6 <sup>11</sup> 49	12°58	28°45	5°39	0°55	13°36	14°29	13° 4	24°41	1°28	2°47	10°11	17°49	M17
T 18	8 26 9	7°34'45	21°25	14°45	29°59	6°22	1° 6	13°39	14°31	13° 7	24°43	1°22	2°44	10°18	17°54	T 18
W19	8 30 6	8°35'35	6 <sup>11</sup> 38	16°32	1 <sup>11</sup> 14	7° 5	1°17	13°41	14°32	13° 9	24°44	1°14	2°41	10°25	18° 0	W19
T 20	8 34 2	9°36'23	20°52	18°19	2°29	7°47	1°29	13°44	14°34	13°11	24°46	1° 6	2°38	10°32	18° 5	T 20
F 21	8 37 59	10°37'10	5 <sup>11</sup> 29	20° 7	3°44	8°30	1°40	13°46	14°36	13°13	24°48	0°57	2°35	10°38	18°10	F 21
S 22	8 41 55	11°37'56	19°50	21°54	4°58	9°13	1°52	13°48	14°38	13°16	24°49	0°50	2°31	10°45	18°15	S 22
S 23	8 45 52	12°38'40	3 <sup>11</sup> 51	23°41	6°13	9°55	2° 4	13°50	14°40	13°18	24°51	0°45	2°28	10°52	18°20	S 23
M24	8 49 49	13°39'23	17°28	25°28	7°27	10°38	2°16	13°52	14°42	13°20	24°53	0°42	2°25	10°58	18°25	M24
T 25	8 53 45	14°40'05	0 <sup>11</sup> 39	27°14	8°41	11°21	2°28	13°54	14°44	13°22	24°54	0°D41	2°22	11° 5	18°30	T 25
W26	8 57 42	15°40'45	13°26	28°59	9°56	12° 3	2°40	13°56	14°46	13°25	24°56	0°42	2°19	11°12	18°35	W26
T 27	9 1 38	16°41'25	25°53	0 <sup>11</sup> 42	11°10	12°46	2°52	13°58	14°48	13°27	24°57	0°43	2°16	11°19	18°39	T 27
F 28	9 5 35	17°42'03	8 <sup>11</sup> 4	2°24	12°25	13°28	3° 4	13°59	14°50	13°29	24°59	0°45	2°12	11°25	18°44	F 28
S 29	9 9 31	18°42'41	20° 2	4° 3	13°39	14°11	3°16	14° 1	14°53	13°32	25° 0	0°R45	2° 9	11°32	18°49	S 29
S 30	9 13 28	19°43'17	1 <sup>11</sup> 55	5°40	14°53	14°53	3°29	14° 2	14°55	13°34	25° 2	0°44	2° 6	11°39	18°53	S 30
M31	9 17 24	20°43'51	13 <sup>11</sup> 46	7 <sup>11</sup> 13	16 <sup>11</sup> 7	15 <sup>11</sup> 36	3 <sup>11</sup> 41	14 <sup>11</sup> 3	14 <sup>11</sup> 57	13°36	25 <sup>11</sup> 3	0°41	2° 3	11°45	18°58	M31

Day	☉	☽	♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat
S 1	21s58	12s27	3n10	24s21	1s47	19s35	1s32	2s42	0s25	1s53	1s15	13s29	2n19	5n 0	0s37	17s18	0s12	17s25	5n58	1s14	1s27	17s10	18s 1	4n48	
S 2	21 48	14 59	3 55	24 12	1 50	19 16	1 33	2 24	0 24	1 49	1 15	13 31	2 19	5 1	0 37	17 18	0 12	17 25	5 58	1 12	1 26	17 10	18 1	4 48	
M 3	21 39	16 53	4 29	24 1	1 53	18 56	1 33	2 5	0 23	1 45	1 15	13 32	2 19	5 1	0 37	17 17	0 12	17 25	5 58	1 9	1 24	17 11	18 1	4 49	
T 4	21 28	18 5	4 51	23 49	1 56	18 35	1 33	1 47	0 22	1 41	1 15	13 32	2 19	5 2	0 37	17 16	0 12	17 25	5 58	1 5	1 23	17 12	18 1	4 49	
W 5	21 18	18 29	5 1	23 36	1 58	18 14	1 34	1 29	0 21	1 37	1 14	13 33	2 19	5 2	0 37	17 16	0 12	17 25	5 58	1 0	1 22	17 12	18 2	4 50	
T 6	21 7	18 3	4 58	23 21	2 0	17 52	1 34	1 11	0 20	1 33	1 14	13 34	2 19	5 3	0 37	17 15	0 12	17 25	5 58	0 55	1 21	17 13	18 2	4 50	
F 7	20 56	16 47	4 41	23 4	2 2	17 30	1 34	0 53	0 18	1 29	1 14	13 35	2 20	5 3	0 37	17 14	0 13	17 25	5 58	0 50	1 19	17 14	18 2	4 50	
S 8	20 44	14 44	4 10	22 46	2 3	17 7	1 34	0 35	0 17	1 25	1 14	13 36	2 20	5 4	0 37	17 14	0 13	17 25	5 58	0 45	1 18	17 14	18 2	4 51	
S 9	20 32	11 57	3 27	22 26	2 4	16 44	1 34	0 17	0 16	1 20	1 14	13 37	2 20	5 4	0 37	17 13	0 13	17 25	5 58	0 41	1 17	17 15	18 2	4 51	
M10	20 19	8 35	2 33	22 4	2 4	16 20	1 34	0n 1	0 15	1 16	1 13	13 38	2 20	5 5	0 37	17 13	0 13	17 25	5 58	0 39	1 16	17 16	18 2	4 52	
T 11	20 6	4 46	1 30	21 41	2 4	15 56	1 34	0 19	0 14	1 12	1 13	13 38	2 20	5 5	0 37	17 12	0 13	17 25	5 58	0 37	1 14	17 16	18 2	4 52	
W12	19 53	0 39	0 21	21 16	2 4	15 31	1 34	0 37	0 13	1 7	1 13	13 39	2 21	5 6	0 37	17 11	0 13	17 25	5 58	0 36	1 13	17 17	18 2	4 53	
T 13	19 39	3n33	0s50	20 50	2 3	15 6	1 34	0 55	0 12	1 3	1 13	13 40	2 21	5 7	0 37	17 11	0 13	17 25	5 58	0 37	1 12	17 17	18 2	4 53	
F 14	19 25	7 39	2 0	20 22	2 2	14 41	1 33	1 13	0 11	0 58	1 13	13 41	2 21	5 7	0 37	17 10	0 13	17 26	5 58	0 37	1 10	17 18	18 3	4 54	
S 15	19 11	11 25	3 4	19 52	2 0	14 15	1 33	1 31	0 10	0 54	1 12	13 41	2 21	5 8	0 37	17 9	0 13	17 26	5 58	0 37	1 9	17 19	18 3	4 54	
S 16	18 56	14 35	3 58	19 21	1 57	13 49	1 32	1 49	0 9	0 49	1 12	13 42	2 22	5 9	0 37	17 9	0 13	17 26	5 58	0 36	1 8	17 19	18 3	4 55	
M17	18 41	16 56	4 38	18 48	1 55	13 22	1 32	2 7	0 8	0 44	1 12	13 42	2 22	5 9	0 37	17 8	0 13	17 26	5 58	0 35	1 7	17 20	18 3	4 55	
T 18	18 25	18 13	5 1	18 13	1 51	12 55	1 31	2 25	0 8	0 40	1 12	13 43	2 22	5 10	0 37	17 8	0 13	17 26	5 58	0 33	1 5	17 20	18 3	4 56	
W19	18 10	18 17	5 5	17 37	1 47	12 28	1 30	2 43	0 7	0 35	1 12	13 44	2 22	5 11	0 37	17 7	0 13	17 26	5 58	0 30	1 4	17 21	18 3	4 56	
T 20	17 53	17 8	4 48	17 0	1 42	12 1	1 30	3 1	0 6	0 30	1 12	13 44	2 22	5 12	0 37	17 6	0 13	17 26	5 58	0 26	1 3	17 22	18 2	4 56	
F 21	17 37	14 52	4 13	16 21	1 37	11 33	1 29	3 18	0 5	0 25	1 11	13 45	2 23	5 12	0 37	17 6	0 13	17 26	5 58	0 23	1 2	17 22	18 2	4 57	
S 22	17 20	11 43	3 22	15 40	1 31	11 5	1 28	3 36	0 4	0 21	1 11	13 45	2 23	5 13	0 37	17 5	0 13	17 26	5 58	0 20	1 0	17 23	18 2	4 58	
S 23	17 3	7 57	2 20	14 59	1 24	10 36	1 27	3 54	0 3	0 16	1 11	13 45	2 23	5 14	0 37	17 4	0 13	17 26	5 58	0 18	0 59	17 23	18 2	4 58	
M24	16 46	3 53	1 11	14 16	1 17	9 7	1 26	4 11	0 2	0 11	1 11	13 46	2 23	5 15	0 37	17 4	0 13	17 26	5 58	0 17	0 58	17 24	18 2	4 59	
T 25	16 28	0s16	0 0	13 32	1 9	9 38	1 25	4 29	0 1	0 6	1 11	13 46	2 23	5 15	0 37	17 3	0 13	17 26	5 58	0 16	0 57	17 25	18 2	4 59	
W26	16 11	4 16	1n 8	12 48	1 0	9 9	1 24	4 46	0 0	0 1	1 11	13 46	2 24	5 16	0 37	17 2	0 13	17 26	5 59	0 17	0 55	17 25	18 2	5 0	
T 27	15 52	7 58	2 12	12 2	0 50	8 40	1 22	5 4	0n 1	0n 4	1 10	13 47	2 24	5 17	0 37	17 2	0 13	17 26	5 59	0 17	0 54	17 26	18 2	5 0	
F 28	15 34	11 15	3 8	11 16	0 40	8 10	1 21	5 21	0 2	0 9	1 10	13 47	2 24	5 18	0 37	17 1	0 13	17 26	5 59	0 18	0 53	17 26	18 2	5 1	
S 29	15 15	14 1	3 55	10 30	0 29	7 40	1 20	5 39	0 2	0 14	1 10	13 47	2 24	5 19	0 37	17 0	0 13	17 26	5 59	0 18	0 52	17 27	18 1	5 1	
S 30	14 56	16 9	4 32	9 43	0 17	7 10	1 18	5 56	0 3	0 19	1 10	13 47	2 25	5 20	0 36	17 0	0 13	17 26	5 59	0 18	0 50	17 28	18 1	5 2	
M31	14s37	17s36	4n57	8s57	0s 5	6s40	1s17	6n13	0n 4	0n24	1s10	13s48	2n25	5n21	0s36	16s59	0s13	17s26	5n59	0s17	0s49	17s28	18s 1	5n 2	

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

FEBRUARY 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 21 21	21 <sup>44</sup> 25	25 <sup>47</sup> 40	8 <sup>43</sup> 43	17 <sup>47</sup> 22	16 <sup>47</sup> 18	3 <sup>47</sup> 54	14 <sup>47</sup> 5	15 <sup>47</sup> 0	13 <sup>47</sup> 38	25 <sup>47</sup> 5	0 <sup>47</sup> R37	2 <sup>47</sup> 0	11 <sup>47</sup> 52	19 <sup>47</sup> 2	T 1
W 2	9 25 18	22 <sup>44</sup> 57	7 <sup>47</sup> 41	10° 8	18°36	17° 0	4° 6	14° 6	15° 2	13°41	25° 6	0 <sup>47</sup> 31	1°56	11°59	19° 6	W 2
T 3	9 29 14	23°45'28	19°53	11°28	19°50	17°43	4°19	14° 7	15° 4	13°43	25° 7	0°24	1°53	12° 6	19°10	T 3
F 4	9 33 11	24°45'57	2 <sup>47</sup> 17	12°42	21° 4	18°25	4°32	14° 8	15° 7	13°45	25° 9	0°17	1°50	12°12	19°15	F 4
S 5	9 37 7	25°46'25	14°55	13°50	22°18	19° 7	4°44	14° 8	15° 9	13°47	25°10	0°11	1°47	12°19	19°19	S 5
S 6	9 41 4	26°46'51	27°47	14°51	23°32	19°50	4°57	14° 9	15°12	13°50	25°11	0° 6	1°44	12°26	19°23	S 6
M 7	9 45 0	27°47'15	10 <sup>47</sup> 52	15°44	24°46	20°32	5°10	14°10	15°14	13°52	25°12	0° 3	1°41	12°32	19°27	M 7
T 8	9 48 57	28°47'38	24°11	16°29	26° 0	21°14	5°23	14°10	15°17	13°54	25°14	0°D 2	1°37	12°39	19°30	T 8
W 9	9 52 53	29°47'59	7 <sup>47</sup> 41	17° 5	27°14	21°56	5°36	14°10	15°20	13°56	25°15	0° 2	1°34	12°46	19°34	W 9
T 10	9 56 50	0 <sup>47</sup> 48'18	21°21	17°32	28°28	22°38	5°50	14°11	15°22	13°59	25°16	0° 3	1°31	12°53	19°38	T 10
F 11	10 0 46	1°48'35	5 <sup>47</sup> 12	17°49	29°41	23°20	6° 3	14°11	15°25	14° 1	25°17	0° 4	1°28	12°59	19°41	F 11
S 12	10 4 43	2°48'49	19°11	17°R57	0 <sup>47</sup> 55	24° 3	6°16	14°R11	15°28	14° 3	25°18	0° 6	1°25	13° 6	19°45	S 12
S 13	10 8 40	3°49'02	3 <sup>47</sup> 17	17°55	2° 9	24°45	6°29	14°11	15°30	14° 5	25°19	0°R 6	1°22	13°13	19°48	S 13
M14	10 12 36	4°49'13	17°30	17°44	3°22	25°27	6°43	14°11	15°33	14° 7	25°20	0° 6	1°18	13°19	19°52	M14
T 15	10 16 33	5°49'21	1 <sup>47</sup> 46	17°23	4°36	26° 9	6°56	14°10	15°36	14° 9	25°21	0° 4	1°15	13°26	19°55	T 15
W16	10 20 29	6°49'28	16° 3	16°54	5°50	26°51	7°10	14°10	15°39	14°12	25°22	0° 1	1°12	13°33	19°58	W16
T 17	10 24 26	7°49'32	0 <sup>47</sup> 17	16°17	7° 3	27°32	7°23	14°10	15°42	14°14	25°23	29 <sup>47</sup> 58	1° 9	13°40	20° 1	T 17
F 18	10 28 22	8°49'34	14°24	15°34	8°16	28°14	7°37	14° 9	15°45	14°16	25°24	29°55	1° 6	13°46	20° 4	F 18
S 19	10 32 19	9°49'34	28°19	14°45	9°30	28°56	7°50	14° 8	15°47	14°18	25°25	29°53	1° 2	13°53	20° 7	S 19
S 20	10 36 15	10°49'33	12 <sup>47</sup> 0	13°51	10°43	29°38	8° 4	14° 8	15°50	14°20	25°26	29°51	0°59	14° 0	20°10	S 20
M21	10 40 12	11°49'29	25°22	12°54	11°56	0 <sup>47</sup> 20	8°18	14° 7	15°53	14°22	25°27	29°D50	0°56	14° 7	20°13	M21
T 22	10 44 9	12°49'23	8 <sup>47</sup> 25	11°55	13° 9	1° 1	8°31	14° 6	15°56	14°24	25°28	29°50	0°53	14°13	20°15	T 22
W23	10 48 5	13°49'15	21° 9	10°55	14°23	1°43	8°45	14° 5	15°59	14°26	25°29	29°51	0°50	14°20	20°18	W23
T 24	10 52 2	14°49'06	3 <sup>47</sup> 16	9°57	15°36	2°25	8°59	14° 4	16° 2	14°28	25°29	29°52	0°47	14°27	20°20	T 24
F 25	10 55 58	15°48'55	15°49	9° 1	16°49	3° 6	9°13	14° 2	16° 5	14°30	25°30	29°54	0°43	14°33	20°23	F 25
S 26	10 59 55	16°48'42	27°50	8° 7	18° 2	3°48	9°27	14° 1	16° 9	14°32	25°31	29°55	0°40	14°40	20°25	S 26
S 27	11 3 51	17°48'28	9 <sup>47</sup> 45	7°18	19°14	4°30	9°41	13°59	16°12	14°34	25°31	29°55	0°37	14°47	20°27	S 27
M28	11 7 48	18 <sup>47</sup> 48'12	21 <sup>47</sup> 37	6 <sup>47</sup> 34	20 <sup>47</sup> 27	5 <sup>47</sup> 11	9 <sup>47</sup> 55	13 <sup>47</sup> 58	16 <sup>47</sup> 15	14 <sup>47</sup> 36	25 <sup>47</sup> 32	29°R56	0 <sup>47</sup> 34	14 <sup>47</sup> 54	20 <sup>47</sup> 29	M28

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	14s18	18s17	5n 9	8s12	0n 8	6s 9	1s15	6n30	0n 5	0n29	1s10	13s48	2n25	5n22	0s36	16s59
W 2	13 58	18 9	5 8	7 27	0 22	5 39	1 13	6 47	0 6	0 34	1 9	13 48	2 25	5 23	0 36	16 58
T 3	13 38	17 12	4 53	6 44	0 36	5 8	1 12	7 4	0 7	0 40	1 9	13 48	2 25	5 24	0 36	16 57
F 4	13 18	15 25	4 24	6 2	0 51	4 37	1 10	7 21	0 8	0 45	1 9	13 48	2 26	5 25	0 36	16 57
S 5	12 58	12 52	3 41	5 22	1 6	4 6	1 8	7 38	0 8	0 50	1 9	13 48	2 26	5 26	0 36	16 56
S 6	12 37	9 40	2 47	4 45	1 21	3 35	1 6	7 55	0 9	0 55	1 9	13 48	2 26	5 27	0 36	16 55
M 7	12 16	5 55	1 43	4 10	1 36	3 4	1 4	8 12	0 10	1 0	1 9	13 48	2 26	5 28	0 36	16 55
T 8	11 55	1 50	0 32	3 39	1 51	2 33	1 2	8 28	0 11	1 6	1 9	13 48	2 27	5 29	0 36	16 54
W 9	11 34	2n25	0s42	3 11	2 6	2 1	1 0	8 45	0 12	1 11	1 9	13 48	2 27	5 30	0 36	16 54
T 10	11 13	6 35	1 54	2 47	2 21	1 30	0 58	9 1	0 12	1 16	1 8	13 48	2 27	5 31	0 36	16 53
F 11	10 51	10 27	3 1	2 27	2 35	0 58	0 56	9 18	0 13	1 22	1 8	13 47	2 27	5 32	0 36	16 52
S 12	10 30	13 45	3 58	2 12	2 48	0 27	0 53	9 34	0 14	1 27	1 8	13 47	2 27	5 33	0 36	16 52
S 13	10 8	16 17	4 40	2 2	3 0	0n 5	0 51	9 50	0 15	1 32	1 8	13 47	2 28	5 34	0 36	16 51
M14	9 46	17 49	5 7	1 56	3 11	0 36	0 49	10 6	0 15	1 38	1 8	13 47	2 28	5 35	0 36	16 50
T 15	9 24	18 15	5 14	1 55	3 21	1 8	0 46	10 22	0 16	1 43	1 8	13 46	2 28	5 36	0 36	16 50
W16	9 2	17 32	5 2	1 59	3 29	1 39	0 44	10 38	0 17	1 49	1 8	13 46	2 28	5 37	0 36	16 49
T 17	8 39	15 43	4 31	2 7	3 35	2 11	0 41	10 54	0 18	1 54	1 8	13 46	2 29	5 38	0 36	16 49
F 18	8 17	12 58	3 45	2 20	3 40	2 42	0 39	11 10	0 18	2 0	1 7	13 45	2 29	5 39	0 36	16 48
S 19	7 54	9 30	2 45	2 37	3 42	3 13	0 36	11 25	0 19	2 5	1 7	13 45	2 29	5 41	0 36	16 47
S 20	7 32	5 35	1 37	2 57	3 42	3 45	0 33	11 41	0 20	2 11	1 7	13 45	2 29	5 42	0 36	16 47
M21	7 9	1 28	0 25	3 20	3 40	4 16	0 31	11 56	0 20	2 16	1 7	13 44	2 29	5 43	0 36	16 46
T 22	6 46	2s37	0n47	3 46	3 37	4 47	0 28	12 11	0 21	2 22	1 7	13 44	2 30	5 44	0 36	16 46
W23	6 23	6 30	1 55	4 14	3 31	5 18	0 25	12 27	0 22	2 27	1 7	13 43	2 30	5 45	0 36	16 45
T 24	6 0	9 59	2 56	4 43	3 23	5 49	0 22	12 42	0 23	2 33	1 7	13 43	2 30	5 46	0 36	16 44
F 25	5 36	12 59	3 48	5 13	3 14	6 20	0 19	12 57	0 23	2 38	1 7	13 42	2 30	5 48	0 36	16 44
S 26	5 13	15 22	4 28	5 43	3 3	6 50	0 16	13 11	0 24	2 44	1 7	13 41	2 30	5 49	0 36	16 43
S 27	4 50	17 4	4 57	6 12	2 51	7 21	0 13	13 26	0 25	2 49	1 7	13 41	2 31	5 50	0 36	16 43
M28	4s26	18s 1	5n13	6s40	2n38	7n51	0s10	13n41	0n25	2n55	1s 7	13s40	2n31	5n51	0s36	16s42

Julian Day Number = 2273712.5, Delta T = 262.76 sec

Ecliptic obliquity = 23°30'00, Nutation = 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°56'47, Lahiri = 17°03'48 Julian Calendar 1 Feb. 1513 == Greg. Calendar 11 Feb. 1513

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

MARCH 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 11 44	19°47'54	3°33	5°R55	21°40	5°53	10°Y 9	13°R56	16°Y18	14°38	25°33	29°R55	0°31	15°7	20°31	T 1
W 2	11 15 41	20°47'34	15°35	5°H21	22°53	6°34	10°23	13°M55	16°21	14°40	25°33	29°M54	0°28	15°7	20°33	W 2
T 3	11 19 38	21°47'12	27°49	4°54	24°5	7°15	10°37	13°53	16°24	14°42	25°34	29°53	0°24	15°14	20°35	T 3
F 4	11 23 34	22°46'49	10°18	4°33	25°18	7°57	10°51	13°51	16°27	14°44	25°34	29°52	0°21	15°20	20°37	F 4
S 5	11 27 31	23°46'24	23°4	4°18	26°30	8°38	11°5	13°49	16°31	14°46	25°35	29°51	0°18	15°27	20°38	S 5
S 6	11 31 27	24°45'57	6°9	4°9	27°43	9°20	11°20	13°47	16°34	14°48	25°35	29°51	0°15	15°34	20°40	S 6
M 7	11 35 24	25°45'28	19°34	4°D 6	28°55	10°1	11°34	13°44	16°37	14°50	25°35	29°51	0°12	15°41	20°41	M 7
T 8	11 39 20	26°44'56	3°Y16	4°9	0°8	8	10°42	11°48	13°42	16°40	14°51	25°36	29°D50	0°8	15°47	T 8
W 9	11 43 17	27°44'23	17°13	4°18	1°20	11°23	12°2	13°40	16°44	14°53	25°36	29°51	0°5	15°54	20°44	W 9
T 10	11 47 13	28°43'48	1°22	4°32	2°32	12°5	12°17	13°37	16°47	14°55	25°36	29°51	0°2	16°1	20°45	T 10
F 11	11 51 10	29°43'10	15°38	4°51	3°44	12°46	12°31	13°35	16°50	14°57	25°37	29°R51	29°M59	16°7	20°46	F 11
S 12	11 55 6	0°Y42'30	29°58	5°15	4°56	13°27	12°45	13°32	16°54	14°58	25°37	29°51	29°56	16°14	20°47	S 12
S 13	11 59 3	1°41'48	14°18	5°44	6°8	14°8	13°0	13°29	16°57	15°0	25°37	29°51	29°53	16°21	20°48	S 13
M14	12 3 0	2°41'04	28°33	6°17	7°20	14°49	13°14	13°27	17°0	15°2	25°37	29°D51	29°49	16°28	20°48	M14
T 15	12 6 56	3°40'17	12°42	6°54	8°32	15°30	13°28	13°24	17°4	15°4	25°37	29°51	29°46	16°34	20°49	T 15
W16	12 10 53	4°39'28	26°43	7°35	9°43	16°11	13°43	13°21	17°7	15°5	25°38	29°51	29°43	16°41	20°50	W16
T 17	12 14 49	5°38'36	10°13	8°20	10°55	16°52	13°57	13°18	17°11	15°7	25°38	29°51	29°40	16°48	20°50	T 17
F 18	12 18 46	6°37'42	24°13	9°8	12°6	17°33	14°11	13°15	17°14	15°8	25°38	29°52	29°37	16°54	20°51	F 18
S 19	12 22 42	7°36'46	7°40	9°59	13°18	18°14	14°26	13°12	17°17	15°10	25°R38	29°53	29°33	17°1	20°51	S 19
S 20	12 26 39	8°35'47	20°54	10°54	14°29	18°55	14°40	13°8	17°21	15°11	25°38	29°53	29°30	17°8	20°51	S 20
M21	12 30 35	9°34'46	3°54	11°51	15°40	19°36	14°55	13°5	17°24	15°13	25°38	29°R53	29°27	17°15	20°R51	M21
T 22	12 34 32	10°33'44	16°41	12°52	16°51	20°16	15°9	13°2	17°28	15°15	25°37	29°53	29°24	17°21	20°51	T 22
W23	12 38 29	11°32'39	29°14	13°55	18°2	20°57	15°24	12°58	17°31	15°16	25°37	29°52	29°21	17°28	20°51	W23
T 24	12 42 25	12°31'32	11°13	15°0	19°13	21°38	15°38	12°55	17°34	15°17	25°37	29°50	29°18	17°35	20°51	T 24
F 25	12 46 22	13°30'24	23°44	16°9	20°24	22°18	15°53	12°51	17°38	15°19	25°37	29°48	29°14	17°41	20°50	F 25
S 26	12 50 18	14°29'13	5°45	17°19	21°35	22°59	16°7	12°47	17°41	15°20	25°37	29°46	29°11	17°48	20°50	S 26
S 27	12 54 15	15°28'01	17°39	18°32	22°46	23°40	16°22	12°44	17°45	15°22	25°37	29°44	29°8	17°55	20°50	S 27
M28	12 58 11	16°26'47	29°32	19°47	23°56	24°20	16°36	12°40	17°48	15°23	25°36	29°42	29°5	18°2	20°49	M28
T 29	13 2 8	17°25'32	11°37	21°4	25°7	25°1	16°50	12°36	17°52	15°24	25°36	29°42	29°2	18°8	20°48	T 29
W30	13 6 4	18°24'14	23°28	22°23	26°17	25°41	17°5	12°32	17°55	15°26	25°36	29°D42	28°59	18°15	20°48	W30
T 31	13 10 1	19°Y22'55	5°41	23°44	27°8	26°22	17°Y19	12°M28	17°Y59	15°27	25°35	29°M42	28°M55	18°22	20°47	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
T 1	4s 3	18s11	5n16	7s 7	2n25	8n21	0s 7	13n55	0n26	3n 1	1s 6	13s40	2n31	5n53	0s36	16s42	0s13	17s25	6n 1	0n 2	0s12	17s44	17s50	5n20					
W 2	3 39	17 32	5 5	7 33	2 10	8 51	0 4	14 10	0 26	3 6	1 6	13 39	2 31	5 54	0 36	16 41	0 13	17 24	6 1	0 2	0 11	17 44	17 50	5 21					
T 3	3 16	16 5	4 40	7 57	1 56	9 21	0 1	14 24	0 27	3 12	1 6	13 38	2 31	5 55	0 36	16 40	0 13	17 24	6 1	0 3	0 10	17 44	17 49	5 21					
F 4	2 52	13 50	4 1	8 18	1 41	9 51	0n 2	14 38	0 28	3 17	1 6	13 37	2 32	5 56	0 36	16 40	0 13	17 24	6 1	0 3	0 8	17 45	17 49	5 22					
S 5	2 29	10 52	3 10	8 38	1 26	10 20	0 5	14 52	0 28	3 23	1 6	13 37	2 32	5 58	0 36	16 39	0 13	17 24	6 2	0 3	0 7	17 45	17 48	5 23					
S 6	2 5	7 18	2 8	8 55	1 11	10 49	0 8	15 6	0 29	3 29	1 6	13 36	2 32	5 59	0 36	16 39	0 13	17 24	6 2	0 4	0 6	17 46	17 48	5 23					
M 7	1 41	3 16	0 57	9 10	0 56	11 18	0 12	15 19	0 30	3 34	1 6	13 35	2 32	6 0	0 36	16 38	0 13	17 24	6 2	0 4	0 5	17 46	17 47	5 24					
T 8	1 18	1n 1	0s19	9 22	0 41	11 46	0 15	15 33	0 30	3 40	1 6	13 34	2 32	6 1	0 36	16 38	0 13	17 24	6 2	0 4	0 3	17 47	17 46	5 25					
W 9	0 54	5 19	1 35	9 32	0 27	12 15	0 18	15 46	0 31	3 46	1 6	13 33	2 32	6 3	0 36	16 37	0 13	17 24	6 2	0 4	0 2	17 47	17 46	5 25					
T 10	0 30	9 23	2 46	9 40	0 13	12 43	0 21	16 0	0 31	3 51	1 6	13 32	2 33	6 4	0 36	16 37	0 13	17 24	6 2	0 4	0 1	17 48	17 45	5 26					
F 11	0 7	12 56	3 48	9 45	0s 0	13 11	0 24	16 13	0 32	3 57	1 6	13 31	2 33	6 5	0 36	16 36	0 13	17 24	6 2	0 4	0n 0	17 48	17 45	5 27					
S 12	0n17	15 43	4 35	9 49	0 13	13 38	0 28	16 26	0 33	4 3	1 6	13 31	2 33	6 6	0 36	16 36	0 13	17 24	6 2	0 4	0 2	17 49	17 44	5 27					
S 13	0 41	17 31	5 6	9 50	0 26	14 5	0 31	16 39	0 33	4 8	1 6	13 30	2 33	6 8	0 36	16 35	0 13	17 24	6 2	0 4	0 3	17 49	17 43	5 28					
M14	1 4	18 12	5 17	9 49	0 37	14 32	0 34	16 52	0 34	4 14	1 6	13 29	2 33	6 9	0 36	16 35	0 13	17 23	6 2	0 4	0 4	17 50	17 43	5 29					
T 15	1 28	17 46	5 9	9 45	0 49	14 58	0 38	17 4	0 34	4 19	1 6	13 28	2 33	6 10	0 36	16 34	0 13	17 23	6 2	0 4	0 6	17 50	17 42	5 29					
W16	1 51	16 14	4 43	9 40	1 0	15 25	0 41	17 17	0 35	4 25	1 6	13 27	2 34	6 12	0 36	16 34	0 13	17 23	6 3	0 4	0 7	17 51	17 42	5 30					
T 17	2 15	13 46	4 1	9 33	1 10	15 50	0 44	17 29	0 35	4 31	1 5	13 26	2 34	6 13	0 36	16 33	0 13	17 23	6 3	0 3	0 8	17 51	17 41	5 31					
F 18	2 38	10 34	3 5	9 24	1 20	16 16	0 47	17 41	0 36	4 36	1 5	13 24	2 34	6 14	0 35	16 33	0 13	17 23	6 3	0 3	0 9	17 51	17 40	5 31					
S 19	3 2	6 52	2 0	9 13	1 29	16 41	0 51	17 53	0 36	4 42	1 5	13 23	2 34	6 16	0 35	16 33	0 13	17 23	6 3	0 3	0 11	17 52	17 40	5 32					
S 20	3 25	2 51	0 50	9 0	1 37	17 5	0 54	18 5	0 37	4 48	1 5	13 22	2 34	6 17	0 35	16 32	0 13	17 23	6 3	0 3	0 12	17 52	17 39	5 33					
M21	3 48	1s13	0n22	8 45	1 45	17 29	0 57	18 17	0 38	4 53	1 5	13 21	2 34	6 18	0 35	16 32	0 13	17 23	6 3	0 3	0 13	17 53	17 38	5 33					
T 22	4 11	5 10	1 32	8 29	1 53	17 53	1 1	18 28	0 38	4 59	1 5	13 20	2 34	6 20	0 35	16 31	0 13	17 23	6 3	0 3	0 14	17 53	17 38	5 34					
W23	4 35	8 48	2 35	8 11	1 59	18 16	1 4	18 40	0 39	5 4	1 5	13 19	2 35	6 21	0 35	16 31	0 14	17 23	6 3	0 3	0 16	17 54	17 37	5 35					
T 24	4 58	12 0	3 31	7 51	2 6	18 39	1 7	18 51	0 39	5 10	1 5	13 18	2 35	6 22	0 35	16 30	0 14	17 23	6 3	0 4	0 17	17 54	17 36	5 35					
F 25	5 21	14 38	4 16	7 30	2 11	19 1	1 10	19 2	0 40	5 16	1 5	13 17	2 35	6 23	0 35	16 30	0 14	17 22	6 3	0 5	0 18	17 54	17 36	5 36					
S 26	5 43	16 35	4 48	7 7	2 17	19 23	1 14	19 13	0 40	5 21	1 5	13 15	2 35	6 25	0 35	16 30	0 14	17 22	6 3	0 6	0 19	17 55	17 35	5 37					
S 27	6 6	17 48	5 9	6 43	2 21	19 45	1 17	19 23	0 41	5 27	1 5	13 14	2 35	6 26	0 35	16 29	0 14	17 22	6 4	0 6	0 21	17 55	17 34	5 37					
M28	6 29	18 14	5 16	6 17	2 25	20 6	1 20	19 34	0 41	5 32	1 5	13 13	2 35	6 27	0 35	16 29	0 14	17 22	6 4	0 7	0 22	17 56	17 34	5 38					
T 29	6 51	17 52	5 9	5 50	2 29	20 26	1 23	19 44	0 42	5 38	1 5	13 12	2 35	6 29	0 35	16 28	0 14	17 22	6 4	0 7	0 23	17 56	17 33	5 39					
W30	7 14	16 42	4 49	5 21	2 32	20 46	1 26	19 55	0 42	5 44	1 5	13 10	2 35	6 30	0 35	16 28	0 14	17 22	6 4	0 7	0 25	17 57	17 32	5 39					
T 31	7n36	14s46	4n16	4s51	2s34	21n 5	1n29	20n 5	0n43	5n49	1s 5	13s 9	2n35	6n31	0s35	16s28	0s14	17s22	6n 4	0n 7	0n26	17s57	17s32	5n40					

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

APRIL 1513 JC

00:00 UT

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

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	7n58	12s 6	3n30	4s20	2s36	21n24	1n32	20n15	0n43	5n55	1s 5	13s 8	2n35	6n33	0s35	16s27	0s14	17s22	6n 4	0n 7	0n27	17s57	17s31	5n41			
S 2	8 21	8 48	2 32	3 47	2 37	21 43	1 35	20 24	0 43	6 0	1 5	13 7	2 36	6 34	0 35	16 27	0 14	17 22	6 4	0 6	0 28	17 58	17 30	5 41			
S 3	8 42	4 57	1 25	3 13	2 38	22 0	1 38	20 34	0 44	6 6	1 5	13 5	2 36	6 35	0 35	16 27	0 14	17 22	6 4	0 5	0 30	17 58	17 29	5 42			
M 4	9 4	0 45	0 11	2 38	2 38	22 18	1 41	20 43	0 44	6 11	1 5	13 4	2 36	6 37	0 35	16 26	0 14	17 22	6 4	0 5	0 31	17 59	17 29	5 43			
T 5	9 26	3n38	1s 5	2 2	2 38	22 34	1 44	20 52	0 45	6 17	1 5	13 3	2 36	6 38	0 35	16 26	0 14	17 21	6 4	0 5	0 32	17 59	17 28	5 43			
W 6	9 47	7 54	2 19	1 24	2 37	22 50	1 47	21 1	0 45	6 22	1 5	13 1	2 36	6 39	0 35	16 26	0 14	17 21	6 4	0 6	0 33	17 59	17 27	5 44			
T 7	10 9	11 47	3 25	0 46	2 36	23 6	1 50	21 10	0 46	6 28	1 5	13 0	2 36	6 41	0 35	16 26	0 14	17 21	6 4	0 7	0 35	18 0	17 27	5 44			
F 8	10 30	14 57	4 19	0 6	2 34	23 21	1 53	21 19	0 46	6 33	1 5	12 59	2 36	6 42	0 35	16 25	0 14	17 21	6 4	0 9	0 36	18 0	17 26	5 45			
S 9	10 51	17 9	4 55	0n35	2 31	23 35	1 55	21 27	0 47	6 39	1 5	12 57	2 36	6 43	0 35	16 25	0 14	17 21	6 5	0 10	0 37	18 0	17 25	5 46			
S 10	11 12	18 12	5 12	1 17	2 28	23 48	1 58	21 36	0 47	6 44	1 5	12 56	2 36	6 44	0 35	16 25	0 14	17 21	6 5	0 12	0 38	18 1	17 24	5 46			
M 11	11 32	18 3	5 8	2 0	2 25	24 1	2 1	21 44	0 47	6 49	1 5	12 55	2 36	6 46	0 35	16 24	0 14	17 21	6 5	0 13	0 40	18 1	17 24	5 47			
T 12	11 53	16 45	4 46	2 44	2 21	24 14	2 3	21 52	0 48	6 55	1 5	12 53	2 36	6 47	0 35	16 24	0 14	17 21	6 5	0 13	0 41	18 2	17 23	5 47			
W 13	12 13	14 28	4 7	3 28	2 16	24 26	2 6	21 59	0 48	7 0	1 5	12 52	2 36	6 48	0 35	16 24	0 14	17 21	6 5	0 13	0 42	18 2	17 22	5 48			
T 14	12 33	11 26	3 14	4 14	2 11	24 37	2 8	22 7	0 49	7 6	1 5	12 51	2 36	6 50	0 35	16 24	0 14	17 21	6 5	0 13	0 44	18 2	17 21	5 49			
F 15	12 53	7 51	2 13	5 1	2 6	24 47	2 10	22 14	0 49	7 11	1 5	12 49	2 36	6 51	0 35	16 23	0 14	17 21	6 5	0 12	0 45	18 3	17 21	5 49			
S 16	13 12	3 56	1 5	5 48	2 0	24 57	2 13	22 22	0 49	7 16	1 5	12 48	2 36	6 52	0 35	16 23	0 14	17 20	6 5	0 12	0 46	18 3	17 20	5 50			
S 17	13 32	0s 5	0n 5	6 36	1 53	25 6	2 15	22 29	0 50	7 21	1 5	12 46	2 36	6 53	0 35	16 23	0 14	17 20	6 5	0 12	0 47	18 3	17 19	5 50			
M 18	13 51	4 3	1 13	7 25	1 46	25 15	2 17	22 35	0 50	7 27	1 5	12 45	2 36	6 55	0 35	16 23	0 14	17 20	6 5	0 12	0 49	18 4	17 19	5 51			
T 19	14 10	7 47	2 17	8 14	1 39	25 23	2 19	22 42	0 51	7 32	1 5	12 44	2 36	6 56	0 35	16 23	0 14	17 20	6 5	0 13	0 50	18 4	17 18	5 51			
W 20	14 29	11 7	3 13	9 4	1 31	25 30	2 21	22 48	0 51	7 37	1 5	12 42	2 36	6 57	0 35	16 23	0 14	17 20	6 5	0 15	0 51	18 4	17 17	5 52			
T 21	14 47	13 57	4 0	9 54	1 22	25 37	2 23	22 55	0 51	7 43	1 5	12 41	2 36	6 58	0 35	16 22	0 14	17 20	6 5	0 17	0 52	18 5	17 16	5 53			
F 22	15 6	16 8	4 35	10 45	1 13	25 43	2 25	23 1	0 52	7 48	1 5	12 40	2 36	7 0	0 35	16 22	0 14	17 20	6 5	0 20	0 54	18 5	17 16	5 53			
S 23	15 24	17 37	4 58	11 35	1 4	25 48	2 27	23 7	0 52	7 53	1 5	12 38	2 36	7 1	0 35	16 22	0 14	17 20	6 5	0 23	0 55	18 5	17 15	5 54			
S 24	15 41	18 18	5 8	12 26	0 55	25 52	2 28	23 12	0 52	7 58	1 5	12 37	2 36	7 2	0 35	16 22	0 14	17 20	6 5	0 26	0 56	18 6	17 14	5 54			
M 25	15 59	18 12	5 5	13 16	0 45	25 56	2 30	23 18	0 53	8 3	1 5	12 35	2 36	7 3	0 35	16 22	0 14	17 20	6 5	0 29	0 57	18 6	17 14	5 55			
T 26	16 16	17 18	4 48	14 7	0 35	25 59	2 31	23 23	0 53	8 8	1 5	12 34	2 36	7 5	0 35	16 22	0 14	17 20	6 5	0 31	0 59	18 6	17 13	5 55			
W 27	16 33	15 37	4 19	14 57	0 25	26 2	2 33	23 28	0 53	8 13	1 5	12 33	2 36	7 6	0 35	16 22	0 14	17 20	6 5	0 32	1 0	18 7	17 12	5 56			
T 28	16 50	13 14	3 38	15 46	0 14	26 4	2 34	23 33	0 54	8 19	1 5	12 31	2 36	7 7	0 35	16 21	0 14	17 20	6 5	0 33	1 1	18 7	17 11	5 56			
F 29	17 6	10 12	2 46	16 34	0 4	26 5	2 35	23 38	0 54	8 24	1 5	12 30	2 36	7 8	0 35	16 21	0 14	17 20	6 5	0 33	1 3	18 7	17 11	5 57			
S 30	17n22	6s36	1n44	17n21	0n 7	26n 6	2n36	23n42	0n54	8n29	1s 5	12s29	2n36	7n 9	0s35	16s21	0s14	17s19	6n 6	0n32	1n 4	18s 8	17s10	5n57			

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

MAY 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 12 14	19°8'26"46	22°8'9"	20°8'13"	2°54'1"	17°11'1"	24°47'39"	10°R13	19°41'41"	15°51'50"	25°R10	28°R41	27°17'17"	21°57'50"	19°R39	S 1
M 2	15 16 11	20°24'32"	5°47'44"	22°24'42"	3°47'17"	17°41'24"	24°53'10"	10°R9	19°45'15"	15°51'25"	25°R9	28°R40	27°14'21"	21°57'19"	19°R36	M 2
T 3	15 20 7	21°22'17"	19°47'19"	24°36'48"	4°52'18"	18°21'25"	25°7'10"	0°4	19°48'15"	15°51'25"	25°8'28"	28°39'27"	27°10'22"	22°4'19"	19°33'19"	T 3
W 4	15 24 4	22°20'01"	4°17'26"	26°47'55"	5°57'19"	0°25°20	10°0'19°51	15°51'25"	25°7'28°35	27°7'22°10	19°29'W 4					
T 5	15 28 0	23°17'43"	19°8'28°57	7°2'19°39	25°34'9°56	19°54'15°51	25°5'28°28	27°4'22°17	19°26'19°26	T 5						
F 6	15 31 57	24°15'24"	4°11'13"	1°11'6"	8°7'20°19	25°47'9°51	19°57'15°51	25°4'28°21	27°1'22°24	19°22'F 6						
S 7	15 35 53	25°13'04"	19°22'3°15	9°11'20°58	26°1'9°47	20°0'15°52	25°3'28°12	26°58'22°31	19°19'S 7							
S 8	15 39 50	26°10'43"	4°52'26"	5°22'10°16	21°38'26°14	9°43'20°3	15°52'25°2	28°4'26°55	22°37'19°15	S 8						
M 9	15 43 47	27°8'20"	19°14'7°27	11°20'22°17	26°28'9°39	20°5'15°R52	25°0'27°58	26°51'22°44	19°12'M 9							
T 10	15 47 43	28°5'56"	3°14'9°30	12°24'22°56	26°41'9°34	20°8'15°52	24°59'27°53	26°48'22°51	19°8'T 10							
W11	15 51 40	29°3'30"	17°43'11°32	13°27'23°36	26°54'9°30	20°11'15°52	24°58'27°51	26°45'22°57	19°4'W11							
T 12	15 55 36	0°11'03"	1°11'20"	13°31'14°30	24°15'27°8	9°26'20°14	15°51'24°56	27°D50	26°42'23°4	19°0'T 12						
F 13	15 59 33	0°58'34"	14°35'15°28	15°33'24°54	27°21'9°22	20°17'15°51	24°55'27°51	26°39'23°11	18°57'F 13							
S 14	16 3 29	1°56'04"	27°29'17°23	16°36'25°33	27°34'9°18	20°20'15°51	24°54'27°R51	26°36'23°18	18°53'S 14							
S 15	16 7 26	2°53'32"	10°14'7"	19°15'17°38	26°13'27°47	9°14'20°22	15°51'24°52	27°50'26°32	23°24'18°49	S 15						
M16	16 11 22	3°50'59"	22°32'21°4	18°40'26°52	28°0'9°10	20°25'15°51	24°51'27°48	26°29'23°31	18°45'M16							
T 17	16 15 19	4°48'25"	4°14'22°51	19°42'27°31	28°13'9°6	20°28'15°51	24°49'27°42	26°26'23°38	18°41'T 17							
W18	16 19 16	5°45'50"	16°53'24°35	20°44'28°10	28°26'9°3	20°30'15°50	24°48'27°34	26°23'23°45	18°37'W18							
T 19	16 23 12	6°43'14"	28°54'26°16	21°45'28°49	28°39'8°59	20°33'15°50	24°46'27°24	26°20'23°51	18°33'T 19							
F 20	16 27 9	7°40'37"	10°51'27°55	22°46'29°28	28°51'8°55	20°36'15°50	24°45'27°12	26°16'23°58	18°29'F 20							
S 21	16 31 5	8°37'59"	22°45'29°31	23°46'0°57	29°4'8°52	20°38'15°49	24°44'26°59	26°13'24°5	18°25'S 21							
S 22	16 35 2	9°35'21"	4°37'19°4	24°46'0°46	29°17'8°48	20°41'15°49	24°42'26°47	26°10'24°11	18°21'S 22							
M23	16 38 58	10°32'41"	16°30'2°34	25°46'1°25	29°29'8°45	20°43'15°49	24°41'26°36	26°7'24°18	18°17'M23							
T 24	16 42 55	11°30'01"	28°25'4°1	26°45'2°4	29°42'8°41	20°46'15°48	24°39'26°27	26°4'24°25	18°13'T 24							
W25	16 46 51	12°27'20"	10°26'5°26	27°44'2°43	29°54'8°38	20°48'15°48	24°38'26°20	26°1'24°32	18°9'W25							
T 26	16 50 48	13°24'39"	22°36'6°47	28°43'3°22	0°8'6°34	20°51'15°47	24°36'26°16	25°57'24°38	18°5'T 26							
F 27	16 54 45	14°21'57"	4°59'8°6	29°41'4°1	0°19'8°31	20°53'15°47	24°35'26°15	25°54'24°45	18°1'F 27							
S 28	16 58 41	15°19'15"	17°40'9°22	0°139'4°40	0°31'8°28	20°55'15°46	24°33'26°D14	25°51'24°52	17°56'S 28							
S 29	17 2 38	16°16'33"	0°43'10°34	1°36'5°19	0°43'8°25	20°58'15°45	24°32'26°R14	25°48'24°58	17°52'S 29							
M30	17 6 34	17°13'50"	14°13'11°44	2°33'5°58	0°55'8°22	21°0'15°45	24°30'26°14	25°45'25°5	17°48'M30							
T 31	17 10 31	18°11'06"	28°11'12°50	3°129'6°37	1°8'7	8°119'21°2	15°44'24°28	26°11'25°11	17°44'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
S 1	17n38	2s35	0n35	18n 7	0n17	26n 6	2n37	23n46	0n55	8n34	1s 5	12s28	2n36	7n10	0s35	16s21	0s14	17s19	6n 6	0n32	1n 5	18s 8	17s 9	5n58			
M 2	17 54	1n42	0s38	18 52	0 28	26 5	2 38	23 50	0 55	8 39	1 5	12 26	2 35	7 12	0 35	16 21	0 14	17 19	6 6	0 32	1 6	18 8	17 9	5 58			
T 3	18 9	6 3	1 51	19 35	0 38	26 3	2 39	23 54	0 55	8 44	1 5	12 25	2 35	7 13	0 35	16 21	0 14	17 19	6 6	0 32	1 8	18 9	17 8	5 58			
W 4	18 24	10 10	2 59	20 16	0 48	26 1	2 40	23 58	0 56	8 49	1 6	12 24	2 35	7 14	0 35	16 21	0 14	17 19	6 6	0 34	1 9	18 9	17 7	5 59			
T 5	18 39	13 45	3 57	20 55	0 58	25 59	2 40	24 2	0 56	8 53	1 6	12 22	2 35	7 15	0 36	16 21	0 14	17 19	6 6	0 37	1 10	18 9	17 7	5 59			
F 6	18 53	16 29	4 39	21 32	1 7	25 55	2 41	24 5	0 56	8 58	1 6	12 21	2 35	7 16	0 36	16 21	0 14	17 19	6 6	0 40	1 11	18 10	17 6	6 0			
S 7	19 7	18 4	5 1	22 6	1 16	25 51	2 41	24 8	0 57	9 3	1 6	12 20	2 35	7 17	0 36	16 21	0 14	17 19	6 6	0 43	1 13	18 10	17 5	6 0			
S 8	19 21	18 23	5 3	22 38	1 24	25 47	2 41	24 11	0 57	9 8	1 6	12 19	2 35	7 18	0 36	16 21	0 14	17 19	6 6	0 46	1 14	18 10	17 4	6 0			
M 9	19 34	17 25	4 44	23 7	1 32	25 42	2 41	24 14	0 57	9 13	1 6	12 17	2 35	7 19	0 36	16 21	0 14	17 19	6 6	0 49	1 15	18 11	17 4	6 1			
T 10	19 47	15 22	4 8	23 34	1 39	25 36	2 41	24 16	0 57	9 18	1 6	12 16	2 35	7 21	0 36	16 21	0 14	17 19	6 6	0 51	1 16	18 11	17 3	6 1			
W11	20 0	12 26	3 17	23 58	1 45	25 29	2 41	24 18	0 58	9 22	1 6	12 15	2 35	7 22	0 36	16 21	0 14	17 19	6 6	0 52	1 18	18 11	17 3	6 2			
T 12	20 12	8 54	2 17	24 19	1 51	25 22	2 41	24 20	0 58	9 27	1 6	12 14	2 34	7 23	0 36	16 21	0 14	17 19	6 6	0 52	1 19	18 11	17 2	6 2			
F 13	20 24	5 0	1 10	24 37	1 56	25 15	2 40	24 22	0 58	9 32	1 6	12 13	2 34	7 24	0 36	16 21	0 14	17 19	6 6	0 52	1 20	18 12	17 1	6 2			
S 14	20 36	0 58	0 2	24 53	2 0	25 6	2 40	24 24	0 59	9 36	1 6	12 12	2 34	7 25	0 36	16 21	0 14	17 19	6 5	0 51	1 21	18 12	17 1	6 3			
S 15	20 47	3s 1	1n 5	25 7	2 4	24 58	2 39	24 26	0 59	9 41	1 6	12 11	2 34	7 26	0 36	16 21	0 14	17 19	6 5	0 52	1 23	18 12	17 0	6 3			
M16	20 58	6 49	2 7	25 18	2 6	24 48	2 38	24 27	0 59	9 45	1 6	12 9	2 34	7 27	0 36	16 21	0 15	17 19	6 5	0 53	1 24	18 12	16 59	6 3			
T 17	21 9	10 16	3 3	25 26	2 8	24 39	2 37	24 28	0 59	9 50	1 6	12 8	2 34	7 28	0 36	16 22	0 15	17 19	6 5	0 55	1 25	18 13	16 59	6 4			
W18	21 19	13 15	3 50	25 33	2 9	24 28	2 36	24 29	1 0	9 55	1 6	12 7	2 34	7 29	0 36	16 22	0 15	17 19	6 5	0 58	1 27	18 13	16 58	6 4			
T 19	21 29	15 39	4 25	25 37	2 10	24 17	2 35	24 30	1 0	9 59	1 7	12 6	2 33	7 30	0 36	16 22	0 15	17 19	6 5	1 2	1 28	18 13	16 57	6 4			
F 20	21 39	17 21	4 49	25 38	2 9	24 6	2 34	24 30	1 0	10 3	1 7	12 5	2 33	7 31	0 36	16 22	0 15	17 19	6 5	1 7	1 29	18 14	16 57	6 4			
S 21	21 48	18 18	5 0	25 38	2 8	23 54	2 32	24 30	1 0	10 8	1 7	12 4	2 33	7 32	0 36	16 22	0 15	17 19	6 5	1 12	1 30	18 14	16 56	6 5			
S 22	21 57	18 27	4 58	25 36	2 6	23 41	2 30	24 30	1 1	10 12	1 7	12 3	2 33	7 33	0 36	16 22	0 15	17 19	6 5	1 17	1 32	18 14	16 56	6 5			
M23	22 5	17 47	4 43	25 32	2 4	23 29	2 28	24 30	1 1	10 17	1 7	12 2	2 33	7 34	0 36	16 22	0 15	17 19	6 5	1 21	1 33	18 14	16 55	6 5			
T 24	22 13	16 21	4 16	25 27	2 0	23 15	2 26	24 30	1 1	10 21	1 7	12 1	2 33	7 35	0 36	16 22	0 15	17 19	6 5	1 25	1 34	18 15	16 55	6 5			
W25	22 21	14 11	3 37	25 19	1 56	23 1	2 24	24 30	1 1	10 25	1 7	12 1	2 32	7 35	0 36	16 23	0 15	17 19	6 5	1 28	1 35	18 15	16 54	6 6			
T 26	22 28	11 22	2 48	25 11	1 51	22 47	2 22	24 29	1 1	10 29	1 7	12 0	2 32	7 36	0 36	16 23	0 15	17 19	6 5	1 29	1 37	18 15	16 53	6 6			
F 27	22 35	8 0	1 50	25 0	1 46	22 32	2 19	24 28	1 2	10 34	1 7	11 59	2 32	7 37	0 36	16 23	0 15	17 19	6 5	1 30	1 38	18 15	16 53	6 6			
S 28	22 41	4 11	0 45	24 49	1 39	22 17	2 17	24 27	1 2	10 38	1 7	11 58	2 32	7 38	0 36	16 23	0 15	17 19	6 5	1 30	1 39	18 16	16 52	6 6			
S 29	22 47	0 4	0s24	24 37	1 32	22 2	2 14	24 26	1 2	10 42	1 7	11 57	2 32	7 39	0 36	16 23	0 15	17 19	6 5	1 30	1 40	18 16	16 52	6 6			
M30	22 53	4n11	1 34	24 23	1 24	21 46	2 11	24 24	1 2	10 46	1 7	11 56	2 31	7 40	0 36	16 24	0 15	17 19	6 5	1 30	1 42	18 16	16 51	6 6			
T 31	22n58	8n22	2s40	24n 8	1n16	21n29	2n 8	24n23	1n 3	10n50	1s 8	11s56	2n31	7n40	0s36	16s24	0s15	17s19	6n 5	1n31	1n43	18s16	16s51	6n 6			

ASTRODIENST EPHEMERIS for the year 1513  
geocentric

JUNE 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	17 14 27	19II 8'23	12838	13553	4825	7516	1819	8°R16	21Y 4	15°R43	24°R27	26°R 5	25m38	25x19	17°R40	W 1
T 2	17 18 24	20° 5'39	27°30	14°53	5°21	7°54	1°31	8m13	21° 6	15x43	24x25	25m58	25°35	25°25	17x36	T 2
F 3	17 22 20	21° 2'55	12II41	15°49	6°16	8°33	1°42	8°11	21° 9	15°42	24°24	25°48	25°32	25°32	17°32	F 3
S 4	17 26 17	22° 0'11	28° 0	16°42	7°10	9°12	1°54	8° 8	21°11	15°41	24°22	25°37	25°29	25°39	17°28	S 4
S 5	17 30 14	22°57'26	13516	17°32	8° 4	9°51	2° 6	8° 5	21°13	15°40	24°21	25°27	25°26	25°46	17°24	S 5
M 6	17 34 10	23°54'40	28°17	18°17	8°57	10°30	2°17	8° 3	21°15	15°40	24°19	25°18	25°22	25°52	17°19	M 6
T 7	17 38 7	24°51'54	12857	18°59	9°50	11° 8	2°29	8° 1	21°17	15°39	24°18	25°11	25°19	25°59	17°15	T 7
W 8	17 42 3	25°49'07	27° 9	19°37	10°42	11°47	2°40	7°58	21°18	15°38	24°16	25° 7	25°16	26° 6	17°11	W 8
T 9	17 46 0	26°46'20	10m52	20°11	11°34	12°26	2°51	7°56	21°20	15°37	24°15	25° 6	25°13	26°12	17° 7	T 9
F 10	17 49 56	27°43'32	24° 9	20°40	12°24	13° 4	3° 2	7°54	21°22	15°36	24°13	25° 5	25°10	26°19	17° 3	F 10
S 11	17 53 53	28°40'44	7x1	21° 6	13°14	13°43	3°13	7°52	21°24	15°35	24°11	25° 5	25° 7	26°26	16°59	S 11
S 12	17 57 49	29°37'55	19°34	21°27	14° 4	14°22	3°24	7°50	21°26	15°34	24°10	25° 4	25° 3	26°33	16°55	S 12
M13	18 1 46	0535'05	1m52	21°44	14°53	15° 0	3°35	7°48	21°27	15°33	24° 8	25° 1	25° 0	26°39	16°51	M13
T 14	18 5 43	1°32'16	13°59	21°56	15°40	15°39	3°45	7°46	21°29	15°32	24° 7	24°56	24°57	26°46	16°48	T 14
W15	18 9 39	2°29'26	25°59	22° 3	16°28	16°17	3°56	7°45	21°31	15°31	24° 5	24°47	24°54	26°53	16°44	W15
T 16	18 13 36	3°26'35	7x54	22°R 6	17°14	16°56	4° 6	7°43	21°32	15°30	24° 4	24°36	24°51	27° 0	16°40	T 16
F 17	18 17 32	4°23'45	19°47	22° 4	17°59	17°35	4°17	7°42	21°34	15°29	24° 2	24°24	24°48	27° 6	16°36	F 17
S 18	18 21 29	5°20'55	1340	21°58	18°44	18°13	4°27	7°40	21°35	15°28	24° 1	24°10	24°44	27°13	16°32	S 18
S 19	18 25 25	6°18'04	13°33	21°46	19°27	18°52	4°37	7°39	21°37	15°26	23°59	23°57	24°41	27°20	16°29	S 19
M20	18 29 22	7°15'14	25°30	21°31	20°10	19°30	4°47	7°38	21°38	15°25	23°58	23°45	24°38	27°26	16°25	M20
T 21	18 33 18	8°12'24	7x30	21°11	20°52	20° 9	4°57	7°37	21°39	15°24	23°56	23°36	24°35	27°33	16°21	T 21
W22	18 37 15	9° 9'34	19°37	20°47	21°32	20°47	5° 7	7°35	21°41	15°23	23°55	23°29	24°32	27°40	16°18	W22
T 23	18 41 12	10° 6'44	1x52	20°20	22°12	21°26	5°17	7°35	21°42	15°22	23°53	23°25	24°28	27°47	16°14	T 23
F 24	18 45 8	11° 3'55	14°19	19°49	22°50	22° 4	5°27	7°34	21°43	15°20	23°52	23°23	24°25	27°53	16°11	F 24
S 25	18 49 5	12° 1'06	27° 1	19°15	23°28	22°43	5°36	7°33	21°44	15°19	23°50	23°D22	24°22	28° 0	16° 7	S 25
S 26	18 53 1	12°58'18	10Y 3	18°39	24° 4	23°21	5°45	7°32	21°45	15°18	23°49	23°R23	24°19	28° 7	16° 4	S 26
M27	18 56 58	13°55'30	23°27	18° 1	24°38	24° 0	5°55	7°32	21°47	15°16	23°47	23°22	24°16	28°13	16° 0	M27
T 28	19 0 54	14°52'43	7x18	17°22	25°12	24°38	6° 4	7°31	21°48	15°15	23°46	23°21	24°13	28°20	15°57	T 28
W29	19 4 51	15°49'56	21°34	16°42	25°44	25°16	6°13	7°31	21°49	15°14	23°45	23°16	24° 9	28°27	15°54	W29
T 30	19 8 47	16°47'11	6II16	16°33	26°15	25°55	6x22	7m31	21Y49	15x12	23x43	23m10	24m6	28x34	15x51	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	23n 3	12n11	3s39	23n53	1n 7	21n13	2n 4	24n21	1n 3	10n54	1s 8	11s55	2n31	7n41	0s36	16s24	0s15	17s19	6n 5	1n33	1n44	18s16	16s50	6n 7	
T 2	23 8	15 21	4 25	23 37	0 57	20 56	2 1	24 19	1 3	10 58	1 8	11 54	2 31	7 42	0 36	16 24	0 15	17 19	6 4	1 37	1 46	18 17	16 50	6 7	
F 3	23 12	17 32	4 53	23 20	0 47	20 39	1 57	24 16	1 3	11 2	1 8	11 54	2 31	7 43	0 36	16 24	0 15	17 19	6 4	1 40	1 47	18 17	16 49	6 7	
S 4	23 15	18 29	5 0	23 3	0 36	20 21	1 53	24 14	1 3	11 6	1 8	11 53	2 30	7 44	0 36	16 25	0 15	17 19	6 4	1 45	1 48	18 17	16 49	6 7	
S 5	23 19	18 5	4 46	22 45	0 24	20 3	1 49	24 11	1 4	11 10	1 8	11 52	2 30	7 44	0 36	16 25	0 15	17 19	6 4	1 49	1 49	18 17	16 48	6 7	
M 6	23 22	16 26	4 13	22 27	0 12	19 45	1 45	24 9	1 4	11 14	1 8	11 52	2 30	7 45	0 36	16 25	0 15	17 19	6 4	1 52	1 51	18 18	16 48	6 7	
T 7	23 24	13 44	3 23	22 9	0s 1	19 26	1 40	24 6	1 4	11 18	1 8	11 51	2 30	7 46	0 36	16 25	0 15	17 19	6 4	1 55	1 52	18 18	16 48	6 7	
W 8	23 26	10 16	2 22	21 50	0 14	19 8	1 35	24 2	1 4	11 21	1 8	11 51	2 29	7 46	0 36	16 26	0 15	17 19	6 4	1 57	1 53	18 18	16 47	6 7	
T 9	23 28	6 22	1 14	21 32	0 27	18 49	1 31	23 59	1 4	11 25	1 9	11 50	2 29	7 47	0 36	16 26	0 15	17 19	6 4	1 57	1 54	18 18	16 47	6 7	
F 10	23 29	2 15	0 5	21 13	0 42	18 29	1 25	23 55	1 4	11 29	1 9	11 50	2 29	7 48	0 36	16 26	0 15	17 19	6 4	1 57	1 56	18 18	16 46	6 7	
S 11	23 30	1s50	1n 3	20 55	0 56	18 10	1 20	23 52	1 5	11 32	1 9	11 49	2 29	7 48	0 36	16 27	0 15	17 19	6 4	1 57	1 57	18 19	16 46	6 7	
S 12	23 30	5 44	2 6	20 37	1 11	17 50	1 15	23 48	1 5	11 36	1 9	11 49	2 28	7 49	0 36	16 27	0 15	17 19	6 3	1 58	1 58	18 19	16 46	6 7	
M13	23 30	9 19	3 1	20 19	1 26	17 31	1 9	23 44	1 5	11 39	1 9	11 49	2 28	7 50	0 36	16 27	0 15	17 19	6 3	1 59	1 59	18 19	16 45	6 7	
T 14	23 29	12 27	3 48	20 2	1 42	17 11	1 3	23 39	1 5	11 43	1 9	11 48	2 28	7 50	0 36	16 28	0 15	17 19	6 3	2 1	2 1	18 19	16 45	6 7	
W15	23 29	15 2	4 24	19 45	1 57	16 51	0 57	23 35	1 5	11 46	1 9	11 48	2 28	7 51	0 36	16 28	0 15	17 19	6 3	2 5	2 2	18 19	16 45	6 7	
T 16	23 27	16 57	4 48	19 30	2 13	16 31	0 50	23 30	1 5	11 50	1 9	11 48	2 27	7 51	0 36	16 28	0 15	17 19	6 3	2 9	2 3	18 19	16 44	6 7	
F 17	23 26	18 8	4 59	19 14	2 29	16 10	0 44	23 25	1 6	11 53	1 10	11 47	2 27	7 52	0 36	16 29	0 15	17 20	6 3	2 14	2 4	18 20	16 44	6 7	
S 18	23 23	18 32	4 58	19 0	2 44	15 50	0 37	23 20	1 6	11 57	1 10	11 47	2 27	7 53	0 36	16 29	0 15	17 20	6 3	2 19	2 6	18 20	16 44	6 7	
S 19	23 21	18 7	4 43	18 47	2 59	15 30	0 30	23 15	1 6	12 0	1 10	11 47	2 27	7 53	0 36	16 29	0 15	17 20	6 2	2 24	2 7	18 20	16 43	6 7	
M20	23 18	16 54	4 16	18 35	3 14	15 9	0 23	23 10	1 6	12 3	1 10	11 47	2 26	7 54	0 36	16 30	0 15	17 20	6 2	2 29	2 8	18 20	16 43	6 7	
T 21	23 15	14 56	3 38	18 23	3 29	14 49	0 15	23 4	1 6	12 6	1 10	11 47	2 26	7 54	0 36	16 30	0 15	17 20	6 2	2 33	2 10	18 20	16 43	6 7	
W22	23 11	12 18	2 49	18 13	3 42	14 28	0 7	22 59	1 6	12 9	1 10	11 47	2 26	7 54	0 36	16 30	0 15	17 20	6 2	2 36	2 11	18 21	16 43	6 7	
T 23	23 7	9 6	1 52	18 5	3 55	14 8	0s 1	22 53	1 6	12 13	1 10	11 47	2 26	7 55	0 36	16 31	0 15	17 20	6 2	2 37	2 12	18 21	16 42	6 7	
F 24	23 2	5 27	0 48	17 57	4 7	13 48	0 9	22 47	1 6	12 16	1 11	11 47	2 25	7 55	0 36	16 31	0 15	17 20	6 2	2 38	2 13	18 21	16 42	6 7	
S 25	22 57	1 29	0s19	17 51	4 18	13 27	0 18	22 41	1 7	12 19	1 11	11 47	2 25	7 56	0 36	16 32	0 15	17 20	6 2	2 38	2 15	18 21	16 42	6 7	
S 26	22 52	2n39	1 27	17 47	4 27	13 7	0 26	22 34	1 7	12 22	1 11	11 47	2 25	7 56	0 36	16 32	0 15	17 20	6 1	2 38	2 16	18 21	16 42	6 6	
M27	22 46	6 46	2 33	17 44	4 36	12 47	0 35	22 28	1 7	12 24	1 11	11 47	2 25	7 57	0 37	16 32	0 15	17 20	6 1	2 38	2 17	18 21	16 41	6 6	
T 28	22 40	10 39	3 31	17 42	4 42	12 27	0 45	22 21	1 7	12 27	1 11	11 47	2 24	7 57	0 37	16 33	0 15	17 21	6 1	2 39	2 18	18 21	16 41	6 6	
W29	22 33	14 2	4 18	17 42	4 48	12 7	0 54	22 14	1 7	12 30	1 11	11 47	2 24	7 57	0 37	16 33	0 15	17 21	6 1	2 41	2 20	18 22	16 41	6 6	
T 30	22n27	16n38	4s50	17n43	4s51	11n48	1s 4	22n 7	1n 7	12n33	1s11	11s47	2n24	7n58	0s37	16s34	0s15	17s21	6n 1	2n43	2n21	18s22	16s41	6n 6	



# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

JULY 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	19 12 44	17°44'26	21°11'17	15°R24	26°45	26°33	6°30	7°R30	21°50	15°R11	23°R42	23°R 2	24° 3	28°40	15°R47	F 1
S 2	19 16 41	18°41'41	6°29	14°47	27°13	27°12	6°39	7°D30	21°51	15° 9	23°40	22°53	24° 0	28°47	15°44	S 2
S 3	19 20 37	19°38'57	21°42	14°11	27°39	27°50	6°47	7°M30	21°52	15° 8	23°39	22°43	23°57	28°54	15°41	S 3
M 4	19 24 34	20°36'14	6°45	13°39	28° 4	28°28	6°56	7°30	21°53	15° 7	23°38	22°36	23°54	29° 1	15°38	M 4
T 5	19 28 30	21°33'31	21°29	13°10	28°27	29° 7	7° 4	7°31	21°53	15° 5	23°36	22°30	23°50	29° 7	15°35	T 5
W 6	19 32 27	22°30'48	5°47	12°45	28°49	29°45	7°12	7°31	21°54	15° 4	23°35	22°27	23°47	29°14	15°33	W 6
T 7	19 36 23	23°28'05	19°37	12°25	29° 8	0°23	7°20	7°31	21°55	15° 2	23°34	22°D26	23°44	29°21	15°30	T 7
F 8	19 40 20	24°25'23	2°59	12° 9	29°26	1° 2	7°28	7°32	21°55	15° 1	23°33	22°26	23°41	29°27	15°27	F 8
S 9	19 44 17	25°22'42	15°55	11°59	29°42	1°40	7°36	7°33	21°56	14°59	23°31	22°27	23°38	29°34	15°25	S 9
S 10	19 48 13	26°20'01	28°30	11°D54	29°56	2°18	7°43	7°33	21°56	14°58	23°30	22°R27	23°34	29°41	15°22	S 10
M 11	19 52 10	27°17'20	10°47	11°55	0° 8	2°57	7°50	7°34	21°57	14°56	23°29	22°26	23°31	29°48	15°20	M 11
T 12	19 56 6	28°14'40	22°53	12° 2	0°18	3°35	7°58	7°35	21°57	14°55	23°28	22°23	23°28	29°54	15°17	T 12
W 13	20 0 3	29°12'00	4°50	12°16	0°25	4°13	8° 5	7°36	21°57	14°53	23°26	22°18	23°25	0° 8	15°15	W 13
T 14	20 3 59	0° 9'21	16°43	12°35	0°31	4°51	8°12	7°37	21°57	14°52	23°25	22°11	23°22	0° 8	15°13	T 14
F 15	20 7 56	1° 6'43	28°35	13° 1	0°34	5°30	8°18	7°38	21°58	14°50	23°24	22° 2	23°19	0°15	15°10	F 15
S 16	20 11 52	2° 4'05	10°29	13°32	0°R35	6° 8	8°25	7°40	21°58	14°48	23°23	21°53	23°15	0°21	15° 8	S 16
S 17	20 15 49	3° 1'28	22°27	14°11	0°34	6°46	8°31	7°41	21°58	14°47	23°22	21°43	23°12	0°28	15° 6	S 17
M 18	20 19 46	3°58'52	4°30	14°55	0°30	7°25	8°38	7°42	21°58	14°45	23°21	21°35	23° 9	0°35	15° 4	M 18
T 19	20 23 42	4°56'17	16°39	15°46	0°24	8° 3	8°44	7°44	21°R58	14°44	23°20	21°29	23° 6	0°41	15° 3	T 19
W 20	20 27 39	5°53'43	28°57	16°42	0°15	8°41	8°50	7°46	21°58	14°42	23°19	21°24	23° 3	0°48	15° 1	W 20
T 21	20 31 35	6°51'11	11°25	17°45	0° 4	9°19	8°56	7°47	21°58	14°40	23°18	21°22	22°59	0°55	14°59	T 21
F 22	20 35 32	7°48'39	24° 3	18°53	29°51	9°57	9° 1	7°49	21°58	14°39	23°17	21°D21	22°56	1° 2	14°57	F 22
S 23	20 39 28	8°46'08	6°56	20° 7	29°36	10°36	9° 7	7°51	21°57	14°37	23°16	21°22	22°53	1° 8	14°56	S 23
S 24	20 43 25	9°43'39	20° 4	21°26	29°18	11°14	9°12	7°53	21°57	14°35	23°15	21°24	22°50	1°15	14°54	S 24
M 25	20 47 21	10°41'12	3°30	22°50	28°58	11°52	9°17	7°55	21°57	14°34	23°14	21°25	22°47	1°22	14°53	M 25
T 26	20 51 18	11°38'46	17°16	24°20	28°35	12°30	9°22	7°58	21°57	14°32	23°13	21°R25	22°44	1°28	14°52	T 26
W 27	20 55 14	12°36'21	1°23	25°54	28°11	13° 9	9°27	8° 0	21°56	14°31	23°12	21°23	22°40	1°35	14°51	W 27
T 28	20 59 11	13°33'58	15°49	27°32	27°44	13°47	9°32	8° 2	21°56	14°29	23°11	21°20	22°37	1°42	14°50	T 28
F 29	21 3 8	14°31'37	0°31	29°14	27°16	14°25	9°36	8° 5	21°55	14°27	23°10	21°16	22°34	1°49	14°48	F 29
S 30	21 7 4	15°29'17	15°23	1° 0	26°46	15° 3	9°41	8° 7	21°55	14°26	23°10	21°11	22°31	1°55	14°48	S 30
S 31	21 11 1	16°26'58	0°18	2°49	26°14	15°41	9°45	8°10	21°54	14°24	23° 9	21° 6	22°28	2° 2	14°47	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
F 1	22n19	18n10	5s 3	17n45	4s53	11n28	1s14	22n 0	1n 7	12n36	1s12	11s47	2n24	7n58	0s37	16s34	0s15	17s21	6n 0	2n46	2n22	18s22	16s41	6n 6			
S 2	22 12	18 26	4 55	17 49	4 53	11 9	1 24	21 52	1 7	12 38	1 12	11 47	2 23	7 58	0 37	16 34	0 15	17 21	6 0	2 50	2 23	18 22	16 41	6 5			
S 3	22 3	17 22	4 26	17 55	4 52	10 50	1 35	21 45	1 7	12 41	1 12	11 48	2 23	7 58	0 37	16 35	0 15	17 21	6 0	2 54	2 25	18 22	16 41	6 5			
M 4	21 55	15 6	3 38	18 1	4 48	10 31	1 46	21 37	1 8	12 44	1 12	11 48	2 23	7 59	0 37	16 35	0 15	17 21	6 0	2 57	2 26	18 22	16 41	6 5			
T 5	21 46	11 54	2 37	18 8	4 44	10 13	1 57	21 29	1 8	12 46	1 12	11 48	2 23	7 59	0 37	16 36	0 15	17 21	6 0	2 59	2 27	18 22	16 40	6 5			
W 6	21 37	8 3	1 28	18 17	4 37	9 55	2 8	21 21	1 8	12 49	1 12	11 49	2 22	7 59	0 37	16 36	0 15	17 22	6 0	3 0	2 28	18 23	16 40	6 4			
T 7	21 27	3 53	0 15	18 27	4 30	9 37	2 19	21 13	1 8	12 51	1 13	11 49	2 22	7 59	0 37	16 37	0 15	17 22	5 59	3 1	2 30	18 23	16 40	6 4			
F 8	21 17	0s20	0n56	18 37	4 21	9 20	2 31	21 5	1 8	12 53	1 13	11 49	2 22	8 0	0 37	16 37	0 15	17 22	5 59	3 1	2 31	18 23	16 40	6 4			
S 9	21 7	4 24	2 2	18 48	4 10	9 3	2 43	20 57	1 8	12 56	1 13	11 50	2 21	8 0	0 37	16 38	0 15	17 22	5 59	3 0	2 32	18 23	16 40	6 4			
S 10	20 56	8 9	3 1	19 0	3 59	8 47	2 55	20 48	1 8	12 58	1 13	11 50	2 21	8 0	0 37	16 38	0 15	17 22	5 59	3 0	2 33	18 23	16 40	6 3			
M11	20 45	11 28	3 49	19 12	3 47	8 31	3 8	20 39	1 8	13 0	1 13	11 51	2 21	8 0	0 37	16 39	0 15	17 22	5 58	3 1	2 35	18 23	16 40	6 3			
T 12	20 34	14 14	4 27	19 24	3 34	8 16	3 20	20 30	1 8	13 2	1 13	11 51	2 21	8 0	0 37	16 39	0 16	17 22	5 58	3 2	2 36	18 23	16 40	6 3			
W13	20 22	16 22	4 52	19 37	3 20	8 1	3 33	20 21	1 8	13 4	1 14	11 52	2 20	8 0	0 37	16 39	0 16	17 23	5 58	3 4	2 37	18 23	16 40	6 3			
T 14	20 10	17 47	5 5	19 50	3 5	7 47	3 46	20 12	1 8	13 7	1 14	11 53	2 20	8 0	0 37	16 40	0 16	17 23	5 58	3 7	2 39	18 23	16 40	6 2			
F 15	19 58	18 25	5 4	20 2	2 50	7 34	3 59	20 3	1 8	13 9	1 14	11 53	2 20	8 0	0 37	16 40	0 16	17 23	5 58	3 10	2 40	18 23	16 40	6 2			
S 16	19 45	18 16	4 50	20 14	2 35	7 21	4 12	19 54	1 9	13 10	1 14	11 54	2 20	8 0	0 37	16 41	0 16	17 23	5 57	3 14	2 41	18 24	16 41	6 2			
S 17	19 32	17 17	4 24	20 26	2 20	7 9	4 26	19 44	1 9	13 12	1 14	11 55	2 19	8 0	0 37	16 41	0 16	17 23	5 57	3 17	2 42	18 24	16 41	6 1			
M18	19 19	15 32	3 45	20 37	2 4	6 58	4 39	19 34	1 9	13 14	1 15	11 55	2 19	8 0	0 37	16 42	0 16	17 23	5 57	3 21	2 44	18 24	16 41	6 1			
T 19	19 5	13 5	2 56	20 47	1 48	6 48	4 53	19 24	1 9	13 16	1 15	11 56	2 19	8 0	0 37	16 42	0 16	17 24	5 57	3 23	2 45	18 24	16 41	6 1			
W20	18 51	10 1	1 58	20 55	1 32	6 38	5 6	19 14	1 9	13 18	1 15	11 57	2 19	8 0	0 37	16 43	0 16	17 24	5 56	3 25	2 46	18 24	16 41	6 0			
T 21	18 36	6 29	0 54	21 3	1 17	6 29	5 19	19 4	1 9	13 19	1 15	11 58	2 18	8 0	0 37	16 43	0 16	17 24	5 56	3 26	2 47	18 24	16 41	6 0			
F 22	18 22	2 35	0s15	21 9	1 2	6 22	5 33	18 54	1 9	13 21	1 15	11 59	2 18	8 0	0 37	16 44	0 16	17 24	5 56	3 26	2 49	18 24	16 41	6 0			
S 23	18 7	1n29	1 23	21 13	0 47	6 15	5 46	18 44	1 9	13 23	1 16	11 59	2 18	8 0	0 37	16 44	0 16	17 24	5 56	3 26	2 50	18 24	16 41	5 59			
S 24	17 52	5 33	2 29	21 16	0 32	6 9	5 59	18 33	1 9	13 24	1 16	12 0	2 17	8 0	0 37	16 45	0 16	17 25	5 56	3 25	2 51	18 24	16 42	5 59			
M25	17 36	9 26	3 29	21 16	0 18	6 4	6 11	18 23	1 9	13 26	1 16	12 1	2 17	8 0	0 37	16 45	0 16	17 25	5 55	3 25	2 52	18 24	16 42	5 59			
T 26	17 20	12 55	4 17	21 14	0 4	6 0	6 24	18 12	1 9	13 27	1 16	12 2	2 17	8 0	0 37	16 46	0 16	17 25	5 55	3 25	2 54	18 24	16 42	5 58			
W27	17 4	15 43	4 52	21 10	0n 9	5 57	6 36	18 1	1 9	13 28	1 16	12 3	2 17	7 59	0 37	16 46	0 16	17 25	5 55	3 25	2 55	18 24	16 42	5 58			
T 28	16 48	17 37	5 9	21 3	0 21	5 54	6 47	17 50	1 9	13 30	1 16	12 4	2 16	7 59	0 37	16 47	0 16	17 25	5 55	3 27	2 56	18 24	16 43	5 58			
F 29	16 31	18 23	5 7	20 54	0 33	5 53	6 59	17 39	1 9	13 31	1 17	12 5	2 16	7 59	0 37	16 47	0 16	17 26	5 54	3 28	2 57	18 25	16 43	5 57			
S 30	16 14	17 55	4 44	20 42	0 44	5 53	7 9	17 28	1 9	13 32	1 17	12 6	2 16	7 59	0 37	16 48	0 16	17 26	5 54	3 30	2 59	18 25	16 43	5 57			
S 31	15n57	16n12	4s 1	20n27	0n54	5n54	7s19	17n16	1n 9	13n33	1s17	12s 7	2n16	7n59	0s37	16s48	0s16	17s26	5n54	3n32	3n 0	18s25	16s43	5n57			



## ASTRODIENST EPHEMERIS for the year 1513

geocentric

AUGUST 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	21 14 57	17♌24'41	15♌ 7	4♌40	25°R41	16♌20	9♉49	8♌13	21°R54	14°R22	23°R 8	21°R 2	22♍25	2♉ 9	14°R46	M 1	
T 2	21 18 54	18°22'25	29°42	6°34	25♌ 7	16°58	9°52	8°16	21°Y53	14°R21	23♉ 7	20♍59	22°21	2°16	14°R45	T 2	
W 3	21 22 50	19°20'11	13♍57	8°30	24°32	17°36	9°56	8°19	21°52	14°19	23° 7	20°57	22°18	2°22	14°45	W 3	
T 4	21 26 47	20°17'57	27°47	10°27	23°56	18°14	9°59	8°22	21°51	14°18	23° 6	20°D57	22°15	2°29	14°44	T 4	
F 5	21 30 43	21°15'45	11♍12	12°26	23°19	18°52	10° 2	8°25	21°51	14°16	23° 5	20°58	22°12	2°36	14°44	F 5	
S 6	21 34 40	22°13'35	24°12	14°25	22°42	19°31	10° 5	8°28	21°50	14°14	23° 5	21° 0	22° 9	2°42	14°44	S 6	
S 7	21 38 37	23°11'25	6♌50	16°25	22° 5	20° 9	10° 8	8°31	21°49	14°13	23° 4	21° 1	22° 5	2°49	14°43	S 7	
M 8	21 42 33	24° 9'17	19°11	18°25	21°28	20°47	10°11	8°35	21°48	14°11	23° 4	21°R 2	22° 2	2°56	14°43	M 8	
T 9	21 46 30	25° 7'10	1♉17	20°25	20°51	21°25	10°13	8°38	21°47	14° 9	23° 3	21° 2	21°59	3° 3	14°D43	T 9	
W10	21 50 26	26° 5'04	13°15	22°25	20°15	22° 3	10°15	8°42	21°46	14° 8	23° 3	21° 1	21°56	3° 9	14°43	W10	
T 11	21 54 23	27° 2'59	25° 8	24°24	19°39	22°42	10°17	8°45	21°45	14° 6	23° 2	20°59	21°53	3°16	14°43	T 11	
F 12	21 58 19	28° 0'56	7♉ 1	26°22	19° 5	23°20	10°19	8°49	21°44	14° 5	23° 2	20°56	21°50	3°23	14°44	F 12	
S 13	22 2 16	28°58'55	18°58	28°20	18°32	23°58	10°21	8°53	21°42	14° 3	23° 1	20°52	21°46	3°29	14°44	S 13	
S 14	22 6 12	29°56'55	1♌ 0	0♍17	18° 0	24°36	10°22	8°57	21°41	14° 2	23° 1	20°49	21°43	3°36	14°44	S 14	
M15	22 10 9	0♍54'56	13°11	2°13	17°30	25°14	10°24	9° 0	21°40	14° 0	23° 0	20°46	21°40	3°43	14°45	M15	
T 16	22 14 6	1°52'59	25°33	4° 7	17° 2	25°52	10°25	9° 5	21°39	13°58	23° 0	20°43	21°37	3°50	14°45	T 16	
W17	22 18 2	2°51'03	8♉ 6	6° 1	16°36	26°31	10°26	9° 9	21°37	13°57	23° 0	20°42	21°34	3°56	14°46	W17	
T 18	22 21 59	3°49'09	20°52	7°54	16°12	27° 9	10°26	9°13	21°36	13°55	23° 0	20°D41	21°31	4° 3	14°47	T 18	
F 19	22 25 55	4°47'17	3°Y50	9°45	15°50	27°47	10°27	9°17	21°35	13°54	22°59	20°42	21°27	4°10	14°48	F 19	
S 20	22 29 52	5°45'27	17° 2	11°35	15°30	28°25	10°27	9°21	21°33	13°52	22°59	20°43	21°24	4°16	14°49	S 20	
S 21	22 33 48	6°43'39	0♉26	13°24	15°12	29° 3	10°R27	9°26	21°32	13°51	22°59	20°44	21°21	4°23	14°50	S 21	
M22	22 37 45	7°41'53	14° 4	15°12	14°57	29°42	10°27	9°30	21°30	13°49	22°59	20°45	21°18	4°30	14°51	M22	
T 23	22 41 41	8°40'09	27°56	16°59	14°44	0♍20	10°27	9°35	21°29	13°48	22°59	20°46	21°15	4°37	14°52	T 23	
W24	22 45 38	9°38'27	11♌59	18°45	14°34	0°58	10°26	9°39	21°27	13°47	22°59	20°R46	21°11	4°43	14°54	W24	
T 25	22 49 35	10°36'48	26°14	20°29	14°26	1°36	10°25	9°44	21°25	13°45	22°59	20°46	21° 8	4°50	14°55	T 25	
F 26	22 53 31	11°35'10	10♉37	22°12	14°21	2°14	10°24	9°49	21°24	13°44	22°D59	20°45	21° 5	4°57	14°56	F 26	
S 27	22 57 28	12°33'35	25° 5	23°55	14°18	2°53	10°23	9°54	21°22	13°42	22°59	20°44	21° 2	5° 4	14°58	S 27	
S 28	23 1 24	13°32'02	9♌33	25°36	14°D17	3°31	10°22	9°58	21°20	13°41	22°59	20°43	20°59	5°10	15° 0	S 28	
M29	23 5 21	14°30'31	23°57	27°16	14°19	4° 9	10°20	10° 3	21°18	13°40	22°59	20°42	20°56	5°17	15° 2	M29	
T 30	23 9 17	15°29'02	8♍10	28°55	14°23	4°47	10°19	10° 8	21°16	13°38	22°59	20°42	20°52	5°24	15° 3	T 30	
W31	23 13 14	16♍27'34	22♍ 8	0♉32	14♌29	5♍26	10♉17	10♌14	21°Y15	13°R37	22♉59	20°D42	20♍49	5♉30	15°R 5	W31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	15n39	13n25	3 s 3	20n10	1n 3	5n56	7s29	17n 5	1n 9	13n34	1s17	12s 9	2n15	7n58	0s37	16s49	0s16
T 2	15 22	9 50	1 54	19 49	1 11	5 59	7 38	16 53	1 9	13 35	1 17	12 10	2 15	7 58	0 37	16 49	0 16
W 3	15 4	5 45	0 38	19 27	1 18	6 3	7 46	16 42	1 9	13 36	1 18	12 11	2 15	7 58	0 37	16 50	0 16
T 4	14 45	1 27	0n37	19 1	1 25	6 8	7 53	16 30	1 9	13 37	1 18	12 12	2 15	7 57	0 37	16 50	0 16
F 5	14 27	2s46	1 49	18 34	1 31	6 13	8 0	16 18	1 9	13 38	1 18	12 13	2 14	7 57	0 37	16 51	0 16
S 6	14 8	6 44	2 52	18 4	1 35	6 20	8 5	16 6	1 9	13 38	1 18	12 15	2 14	7 57	0 37	16 51	0 16
S 7	13 49	10 17	3 45	17 32	1 39	6 27	8 10	15 54	1 9	13 39	1 18	12 16	2 14	7 56	0 38	16 52	0 16
M 8	13 30	13 17	4 27	16 58	1 42	6 35	8 14	15 42	1 9	13 40	1 19	12 17	2 14	7 56	0 38	16 52	0 16
T 9	13 11	15 39	4 56	16 22	1 44	6 43	8 17	15 29	1 9	13 40	1 19	12 18	2 13	7 56	0 38	16 53	0 16
W10	12 51	17 18	5 11	15 44	1 46	6 52	8 19	15 17	1 9	13 41	1 19	12 20	2 13	7 55	0 38	16 53	0 16
T 11	12 32	18 12	5 13	15 6	1 46	7 2	8 20	15 4	1 9	13 41	1 19	12 21	2 13	7 55	0 38	16 53	0 16
F 12	12 12	18 17	5 2	14 25	1 46	7 12	8 21	14 52	1 9	13 42	1 19	12 23	2 13	7 54	0 38	16 54	0 16
S 13	11 51	17 35	4 37	13 44	1 46	7 22	8 20	14 39	1 9	13 42	1 20	12 24	2 13	7 54	0 38	16 54	0 16
S 14	11 31	16 4	4 0	13 2	1 44	7 33	8 19	14 26	1 9	13 42	1 20	12 25	2 12	7 53	0 38	16 55	0 16
M15	11 11	13 50	3 12	12 19	1 43	7 44	8 17	14 13	1 9	13 43	1 20	12 27	2 12	7 53	0 38	16 55	0 16
T 16	10 50	10 56	2 14	11 35	1 40	7 55	8 14	14 1	1 9	13 43	1 20	12 28	2 12	7 53	0 38	16 56	0 16
W17	10 29	7 29	1 9	10 50	1 37	8 6	8 10	13 47	1 9	13 43	1 20	12 30	2 12	7 52	0 38	16 56	0 16
T 18	10 8	3 39	0s 1	10 5	1 34	8 17	8 6	13 34	1 9	13 43	1 21	12 31	2 11	7 51	0 38	16 57	0 16
F 19	9 47	0n26	1 12	9 19	1 30	8 28	8 1	13 21	1 9	13 43	1 21	12 33	2 11	7 51	0 38	16 57	0 16
S 20	9 25	4 33	2 21	8 33	1 26	8 40	7 55	13 8	1 9	13 43	1 21	12 35	2 11	7 50	0 38	16 58	0 16
S 21	9 4	8 30	3 23	7 47	1 21	8 50	7 49	12 54	1 9	13 42	1 21	12 36	2 11	7 50	0 38	16 58	0 16
M22	8 42	12 3	4 14	7 1	1 16	9 1	7 42	12 41	1 9	13 42	1 21	12 38	2 11	7 49	0 38	16 58	0 16
T 23	8 20	15 0	4 52	6 15	1 11	9 12	7 35	12 27	1 9	13 42	1 22	12 39	2 10	7 49	0 38	16 59	0 16
W24	7 58	17 7	5 13	5 28	1 6	9 22	7 27	12 14	1 9	13 42	1 22	12 41	2 10	7 48	0 38	16 59	0 16
T 25	7 36	18 12	5 15	4 42	1 0	9 32	7 19	12 0	1 9	13 41	1 22	12 43	2 10	7 47	0 38	17 0	0 16
F 26	7 14	18 8	4 58	3 55	0 54	9 42	7 11	11 46	1 9	13 41	1 22	12 44	2 10	7 47	0 38	17 0	0 16
S 27	6 52	16 53	4 22	3 9	0 48	9 51	7 2	11 32	1 9	13 40	1 22	12 46	2 9	7 46	0 38	17 1	0 16
S 28	6 29	14 33	3 29	2 23	0 41	10 0	6 53	11 18	1 9	13 40	1 23	12 48	2 9	7 45	0 38	17 1	0 16
M29	6 7	11 19	2 23	1 37	0 35	10 8	6 44	11 4	1 8	13 39	1 23	12 50	2 9	7 45	0 38	17 1	0 16
T 30	5 44	7 28	1 9	0 52	0 28	10 16	6 34	10 50	1 8	13 38	1 23	12 51	2 9	7 44	0 38	17 2	0 16
W31	5n21	3n15	0n 8	0n 6	0n21	10n23	6s25	10n36	1n 8	13n37	1s23	12s53	2n 9	7n43	0s38	17s 2	0s16

Julian Day Number = 2273893.5, Delta T = 261.65 sec

Ecliptic obliquity = 23°30'00, Nutation = - 0°00'01, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°57'12, Lahiri = 17°04'12 Julian Calendar 1 Aug. 1513 == Greg. Calendar 11 Aug. 1513

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

SEPTEMBER 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 17 10	17 <sup>h</sup> 26'09	5 <sup>h</sup> 49	2 <sup>h</sup> 9	14 <sup>h</sup> 37	6 <sup>h</sup> 4	10°R15	10 <sup>h</sup> 19	21°R13	13°R36	22 <sup>h</sup> 59	20 <sup>h</sup> 42	20 <sup>h</sup> 46	5 <sup>h</sup> 37	15 <sup>h</sup> 7	T 1
F 2	23 21 7	18°24'45	19° 9	3°45	14°48	6°42	10 <sup>h</sup> 12	10°24	21°Y11	13°34	22°59	20°42	20°43	5°44	15° 9	F 2
S 3	23 25 4	19°23'24	2 <sup>h</sup> 8	5°20	15° 1	7°20	10°10	10°29	21° 9	13°33	23° 0	20°42	20°40	5°51	15°12	S 3
S 4	23 29 0	20°22'04	14°47	6°54	15°15	7°59	10° 7	10°34	21° 7	13°32	23° 0	20°R42	20°36	5°57	15°14	S 4
M 5	23 32 57	21°20'46	27° 9	8°26	15°32	8°37	10° 4	10°40	21° 5	13°31	23° 0	20°42	20°33	6° 4	15°16	M 5
T 6	23 36 53	22°19'29	9 <sup>h</sup> 18	9°58	15°51	9°15	10° 1	10°45	21° 3	13°29	23° 1	20°42	20°30	6°11	15°19	T 6
W 7	23 40 50	23°18'15	21°16	11°29	16°11	9°53	9°58	10°51	21° 1	13°28	23° 1	20°D42	20°27	6°17	15°21	W 7
T 8	23 44 46	24°17'02	3 <sup>h</sup> 10	12°59	16°34	10°32	9°54	10°56	20°59	13°27	23° 1	20°42	20°24	6°24	15°24	T 8
F 9	23 48 43	25°15'51	15° 3	14°27	16°58	11°10	9°50	11° 2	20°57	13°26	23° 2	20°43	20°21	6°31	15°27	F 9
S 10	23 52 39	26°14'42	27° 1	15°55	17°24	11°48	9°46	11° 8	20°54	13°25	23° 2	20°43	20°17	6°38	15°29	S 10
S 11	23 56 36	27°13'34	9 <sup>h</sup> 6	17°22	17°51	12°27	9°42	11°13	20°52	13°24	23° 3	20°44	20°14	6°44	15°32	S 11
M12	0 0 32	28°12'29	21°23	18°48	18°20	13° 5	9°38	11°19	20°50	13°23	23° 3	20°44	20°11	6°51	15°35	M12
T 13	0 4 29	29°11'25	3 <sup>h</sup> 55	20°13	18°51	13°43	9°34	11°25	20°48	13°22	23° 4	20°45	20° 8	6°58	15°38	T 13
W14	0 8 26	0 <sup>h</sup> 10'23	16°44	21°36	19°23	14°21	9°29	11°31	20°46	13°21	23° 4	20°R45	20° 5	7° 4	15°41	W14
T 15	0 12 22	1° 9'23	29°49	22°59	19°56	15° 0	9°24	11°37	20°43	13°20	23° 5	20°45	20° 2	7°11	15°45	T 15
F 16	0 16 19	2° 8'25	13 <sup>h</sup> Y11	24°20	20°31	15°38	9°19	11°43	20°41	13°19	23° 6	20°45	19°58	7°18	15°48	F 16
S 17	0 20 15	3° 7'29	26°49	25°41	21° 7	16°16	9°14	11°49	20°39	13°18	23° 6	20°43	19°55	7°25	15°51	S 17
S 18	0 24 12	4° 6'36	10 <sup>h</sup> 840	27° 0	21°45	16°55	9° 9	11°55	20°36	13°17	23° 7	20°42	19°52	7°31	15°55	S 18
M19	0 28 8	5° 5'44	24°41	28°18	22°23	17°33	9° 4	12° 1	20°34	13°16	23° 8	20°40	19°49	7°38	15°58	M19
T 20	0 32 5	6° 4'55	8 <sup>h</sup> 49	29°34	23° 3	18°11	8°58	12° 7	20°32	13°15	23° 9	20°38	19°46	7°45	16° 2	T 20
W21	0 36 1	7° 4'09	23° 0	0 <sup>h</sup> 49	23°44	18°50	8°52	12°14	20°29	13°15	23° 9	20°37	19°42	7°51	16° 5	W21
T 22	0 39 58	8° 3'25	7 <sup>h</sup> 13	2° 3	24°26	19°28	8°46	12°20	20°27	13°14	23°10	20°D37	19°39	7°58	16° 9	T 22
F 23	0 43 55	9° 2'43	21°25	3°15	25°10	20° 7	8°40	12°26	20°25	13°13	23°11	20°37	19°36	8° 5	16°13	F 23
S 24	0 47 51	10° 2'04	5 <sup>h</sup> 133	4°25	25°54	20°45	8°34	12°33	20°22	13°12	23°12	20°38	19°33	8°12	16°17	S 24
S 25	0 51 48	11° 1'27	19°35	5°33	26°39	21°23	8°28	12°39	20°20	13°12	23°13	20°39	19°30	8°18	16°21	S 25
M26	0 55 44	12° 0'52	3 <sup>h</sup> 30	6°40	27°25	22° 2	8°21	12°45	20°17	13°11	23°14	20°41	19°27	8°25	16°25	M26
T 27	0 59 41	13° 0'19	17°16	7°44	28°13	22°40	8°14	12°52	20°15	13°10	23°15	20°R41	19°23	8°32	16°29	T 27
W28	1 3 37	13°59'49	0 <sup>h</sup> 50	8°46	29° 1	23°19	8° 8	12°58	20°13	13°10	23°16	20°41	19°20	8°38	16°33	W28
T 29	1 7 34	14°59'21	14°11	9°45	29°49	23°57	8° 1	13° 5	20°10	13° 9	23°17	20°40	19°17	8°45	16°37	T 29
F 30	1 11 30	15°58'54	27 <sup>h</sup> 17	10 <sup>h</sup> 41	0 <sup>h</sup> 39	24 <sup>h</sup> 35	7 <sup>h</sup> 54	13 <sup>h</sup> 12	20 <sup>h</sup> Y 8	13 <sup>h</sup> 9	23 <sup>h</sup> 18	20 <sup>h</sup> 37	19 <sup>h</sup> 14	8 <sup>h</sup> 52	16 <sup>h</sup> 42	F 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	4n59	1s 3	1n23	0s39	0n14	10n30	6s15	10n22	1n 8	13n37	1s23	12s55	2n 9	7n43	0s38	17s 2
F 2	4 36	5 11	2 31	1 23	0 7	10 37	6 5	10 8	1 8	13 36	1 23	12 57	2 8	7 42	0 38	17 3
S 3	4 13	8 57	3 30	2 8	0s 0	10 43	5 55	9 53	1 8	13 35	1 24	12 59	2 8	7 41	0 38	17 3
S 4	3 50	12 13	4 17	2 52	0 8	10 48	5 45	9 39	1 8	13 34	1 24	13 0	2 8	7 40	0 38	17 4
M 5	3 26	14 51	4 51	3 35	0 15	10 53	5 35	9 25	1 8	13 33	1 24	13 2	2 8	7 40	0 38	17 4
T 6	3 3	16 47	5 11	4 18	0 23	10 57	5 25	9 10	1 8	13 32	1 24	13 4	2 8	7 39	0 38	17 4
W 7	2 40	17 56	5 17	5 1	0 30	11 1	5 15	8 56	1 8	13 30	1 24	13 6	2 7	7 38	0 38	17 5
T 8	2 17	18 18	5 10	5 43	0 38	11 4	5 5	8 41	1 8	13 29	1 24	13 8	2 7	7 37	0 38	17 5
F 9	1 53	17 52	4 49	6 24	0 45	11 6	4 55	8 26	1 8	13 28	1 25	13 10	2 7	7 36	0 38	17 5
S 10	1 30	16 37	4 16	7 5	0 53	11 8	4 44	8 12	1 8	13 26	1 25	13 12	2 7	7 36	0 38	17 6
S 11	1 6	14 38	3 31	7 46	1 0	11 10	4 34	7 57	1 7	13 25	1 25	13 14	2 7	7 35	0 38	17 6
M12	0 43	11 57	2 36	8 26	1 8	11 11	4 24	7 42	1 7	13 24	1 25	13 16	2 7	7 34	0 38	17 6
T 13	0 19	8 40	1 32	9 5	1 15	11 11	4 15	7 27	1 7	13 22	1 25	13 18	2 6	7 33	0 38	17 7
W14	0s 4	4 55	0 22	9 43	1 22	11 10	4 5	7 12	1 7	13 20	1 25	13 19	2 6	7 32	0 38	17 7
T 15	0 28	0 50	0s50	10 21	1 30	11 9	3 55	6 57	1 7	13 19	1 25	13 21	2 6	7 31	0 38	17 7
F 16	0 51	3n22	2 1	10 58	1 37	11 8	3 45	6 42	1 7	13 17	1 25	13 23	2 6	7 30	0 38	17 7
S 17	1 15	7 28	3 7	11 34	1 44	11 5	3 36	6 27	1 7	13 15	1 26	13 25	2 6	7 30	0 38	17 8
S 18	1 38	11 13	4 2	12 9	1 51	11 3	3 26	6 12	1 7	13 14	1 26	13 27	2 6	7 29	0 38	17 8
M19	2 2	14 24	4 44	12 44	1 58	10 59	3 17	5 57	1 7	13 12	1 26	13 29	2 5	7 28	0 38	17 8
T 20	2 25	16 44	5 9	13 17	2 5	10 55	3 7	5 42	1 6	13 10	1 26	13 31	2 5	7 27	0 38	17 8
W21	2 49	18 4	5 15	13 50	2 11	10 50	2 58	5 27	1 6	13 8	1 26	13 33	2 5	7 26	0 38	17 9
T 22	3 12	18 16	5 3	14 22	2 18	10 45	2 49	5 12	1 6	13 6	1 26	13 36	2 5	7 25	0 38	17 9
F 23	3 36	17 19	4 31	14 53	2 24	10 39	2 40	4 56	1 6	13 4	1 26	13 38	2 5	7 24	0 38	17 9
S 24	3 59	15 19	3 44	15 22	2 30	10 33	2 31	4 41	1 6	13 2	1 26	13 40	2 5	7 23	0 38	17 9
S 25	4 22	12 24	2 43	15 51	2 35	10 26	2 22	4 26	1 6	13 0	1 26	13 42	2 5	7 23	0 38	17 9
M26	4 46	8 48	1 33	16 18	2 41	10 18	2 14	4 10	1 6	12 58	1 26	13 44	2 4	7 22	0 38	17 10
T 27	5 9	4 45	0 19	16 44	2 46	10 10	2 5	3 55	1 5	12 55	1 27	13 46	2 4	7 21	0 38	17 10
W28	5 32	0 31	0n56	17 9	2 50	10 2	1 57	3 40	1 5	12 53	1 27	13 48	2 4	7 20	0 38	17 10
T 29	5 55	3s41	2 6	17 32	2 54	9 52	1 48	3 24	1 5	12 51	1 27	13 50	2 4	7 19	0 38	17 10
F 30	6s18	7s37	3n 8	17s53	2s58	9n42	1s40	3n 9	1n 5	12n49	1s27	13s52	2n 4	7n18	0s38	17s10

Julian Day Number = 2273924.5, Delta T = 261.46 sec

Ecliptic obliquity = 23°30'00, Nutation = - 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°57'16, Lahiri = 17°04'17 Julian Calendar 1 Sept. 1513 == Greg. Calendar 11 Sept. 1513

ASTRODIENST EPHEMERIS for the year 1513  
geocentric

OCTOBER 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 15 27	16♌58'30	10♍ 8	11♍35	1♎29	25♏14	7°R47	13♍18	20°R 5	13°R 8	23♏19	20°R33	19♏11	8♏59	16♏46	S 1
S 2	1 19 23	17°58'08	22°42	12°24	2°21	25°52	7♌40	13°25	20°Y 3	13≈ 8	23°20	20♏28	19° 7	9° 5	16°50	S 2
M 3	1 23 20	18°57'48	5♌ 2	13°10	3°13	26°31	7°32	13°31	20° 0	13° 7	23°21	20°23	19° 4	9°12	16°55	M 3
T 4	1 27 17	19°57'29	17°10	13°52	4° 5	27° 9	7°25	13°38	19°58	13° 7	23°23	20°19	19° 1	9°19	17° 0	T 4
W 5	1 31 13	20°57'13	29° 8	14°29	4°59	27°48	7°17	13°45	19°55	13° 6	23°24	20°16	18°58	9°25	17° 4	W 5
T 6	1 35 10	21°56'58	11♌ 1	15° 1	5°52	28°26	7°10	13°52	19°53	13° 6	23°25	20°14	18°55	9°32	17° 9	T 6
F 7	1 39 6	22°56'45	22°53	15°28	6°47	29° 5	7° 2	13°58	19°51	13° 6	23°26	20°D13	18°52	9°39	17°14	F 7
S 8	1 43 3	23°56'33	4≈49	15°48	7°42	29°43	6°54	14° 5	19°48	13° 5	23°28	20°14	18°48	9°46	17°18	S 8
S 9	1 46 59	24°56'24	16°53	16° 1	8°38	0♌22	6°46	14°12	19°46	13° 5	23°29	20°15	18°45	9°52	17°23	S 9
M10	1 50 56	25°56'16	29°12	16°R 7	9°34	1° 0	6°39	14°19	19°43	13° 5	23°30	20°17	18°42	9°59	17°28	M10
T 11	1 54 52	26°56'09	11♌48	16° 5	10°31	1°39	6°31	14°26	19°41	13° 5	23°32	20°18	18°39	10° 6	17°33	T 11
W12	1 58 49	27°56'05	24°45	15°55	11°29	2°17	6°23	14°33	19°38	13° 5	23°33	20°R18	18°36	10°12	17°38	W12
T 13	2 2 46	28°56'02	8°Y 5	15°35	12°27	2°56	6°15	14°40	19°36	13° 4	23°35	20°17	18°33	10°19	17°43	T 13
F 14	2 6 42	29°56'01	21°48	15° 6	13°25	3°34	6° 7	14°47	19°34	13° 4	23°36	20°14	18°29	10°26	17°49	F 14
S 15	2 10 39	0♍56'02	5♌52	14°28	14°24	4°13	5°59	14°54	19°31	13° 4	23°37	20° 8	18°26	10°33	17°54	S 15
S 16	2 14 35	1°56'05	20°11	13°41	15°24	4°51	5°50	15° 1	19°29	13°D 4	23°39	20° 2	18°23	10°39	17°59	S 16
M17	2 18 32	2°56'10	4♌42	12°44	16°24	5°30	5°42	15° 8	19°26	13° 4	23°40	19°55	18°20	10°46	18° 4	M17
T 18	2 22 28	3°56'17	19°16	11°40	17°24	6° 9	5°34	15°15	19°24	13° 4	23°42	19°49	18°17	10°53	18°10	T 18
W19	2 26 25	4°56'26	3♌47	10°29	18°25	6°47	5°26	15°22	19°22	13° 5	23°44	19°43	18°13	10°59	18°15	W19
T 20	2 30 21	5°56'37	18°11	9°13	19°26	7°26	5°18	15°29	19°19	13° 5	23°45	19°40	18°10	11° 6	18°21	T 20
F 21	2 34 18	6°56'50	2♌24	7°55	20°28	8° 5	5°10	15°36	19°17	13° 5	23°47	19°D38	18° 7	11°13	18°26	F 21
S 22	2 38 15	7°57'06	16°23	6°36	21°30	8°43	5° 1	15°43	19°15	13° 5	23°48	19°39	18° 4	11°20	18°32	S 22
S 23	2 42 11	8°57'23	0♎ 9	5°19	22°33	9°22	4°53	15°50	19°12	13° 5	23°50	19°40	18° 1	11°26	18°37	S 23
M24	2 46 8	9°57'42	13°42	4° 7	23°35	10° 1	4°45	15°57	19°10	13° 5	23°52	19°R41	17°58	11°33	18°43	M24
T 25	2 50 4	10°58'04	27° 3	3° 1	24°39	10°39	4°37	16° 4	19° 8	13° 6	23°53	19°41	17°54	11°40	18°49	T 25
W26	2 54 1	11°58'27	10♌13	2° 5	25°42	11°18	4°29	16°11	19° 6	13° 6	23°55	19°39	17°51	11°46	18°54	W26
T 27	2 57 57	12°58'52	23°11	1°19	26°46	11°57	4°21	16°19	19° 4	13° 6	23°57	19°34	17°48	11°53	19° 0	T 27
F 28	3 1 54	13°59'19	5♍58	0°44	27°50	12°35	4°13	16°26	19° 1	13° 7	23°59	19°27	17°45	12° 0	19° 6	F 28
S 29	3 5 50	14°59'48	18°33	0°21	28°55	13°14	4° 5	16°33	18°59	13° 7	24° 0	19°17	17°42	12° 7	19°12	S 29
S 30	3 9 47	16° 0'18	0♌58	0° 9	29°59	13°53	3°57	16°40	18°57	13° 8	24° 2	19° 6	17°39	12°13	19°18	S 30
M31	3 13 44	17♍ 0'50	13♌11	0°D 9	1♌ 5	14♌31	3♌50	16♍47	18°Y55	13≈ 8	24♌ 4	18♏55	17♏35	12♏20	19♌24	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	6s41	11s 7	3n59	18s13	3s 1	9n32	1s32	2n54	1n 5	12n46	1s27	13s54	2n 4	7n17	0s38	17s11	0s16	17s44	5n37	3n45	4n18	18s22	17s20	5n32			
S 2	7 4	14 2	4 37	18 31	3 4	9 21	1 24	2 38	1 5	12 44	1 27	13 56	2 4	7 16	0 38	17 11	0 16	17 44	5 36	3 47	4 19	18 22	17 20	5 32			
M 3	7 27	16 15	5 2	18 47	3 6	9 10	1 17	2 23	1 5	12 42	1 27	13 58	2 4	7 15	0 38	17 11	0 16	17 44	5 36	3 49	4 20	18 22	17 21	5 32			
T 4	7 49	17 42	5 12	19 2	3 8	8 58	1 9	2 7	1 4	12 39	1 27	14 0	2 4	7 14	0 38	17 11	0 16	17 45	5 36	3 51	4 21	18 21	17 22	5 32			
W 5	8 12	18 21	5 9	19 13	3 8	8 45	1 2	1 52	1 4	12 37	1 27	14 3	2 3	7 13	0 38	17 11	0 16	17 45	5 36	3 52	4 23	18 21	17 22	5 31			
T 6	8 34	18 11	4 52	19 23	3 8	8 32	0 54	1 36	1 4	12 34	1 27	14 5	2 3	7 12	0 38	17 11	0 16	17 45	5 35	3 53	4 24	18 21	17 23	5 31			
F 7	8 57	17 13	4 23	19 30	3 7	8 19	0 47	1 21	1 4	12 32	1 27	14 7	2 3	7 11	0 38	17 11	0 16	17 46	5 35	3 53	4 25	18 21	17 24	5 31			
S 8	9 19	15 30	3 43	19 34	3 5	8 5	0 40	1 5	1 4	12 29	1 27	14 9	2 3	7 11	0 38	17 11	0 16	17 46	5 35	3 53	4 26	18 21	17 25	5 30			
S 9	9 41	13 5	2 52	19 34	3 2	7 51	0 33	0 50	1 4	12 27	1 27	14 11	2 3	7 10	0 38	17 11	0 16	17 46	5 34	3 52	4 28	18 21	17 25	5 30			
M10	10 3	10 2	1 53	19 32	2 57	7 36	0 26	0 34	1 3	12 24	1 27	14 13	2 3	7 9	0 38	17 11	0 16	17 47	5 34	3 52	4 29	18 20	17 26	5 30			
T 11	10 24	6 27	0 46	19 26	2 52	7 20	0 19	0 19	1 3	12 21	1 27	14 15	2 3	7 8	0 38	17 11	0 16	17 47	5 34	3 51	4 30	18 20	17 27	5 30			
W12	10 46	2 28	0s24	19 16	2 44	7 5	0 13	0 3	1 3	12 19	1 27	14 17	2 3	7 7	0 38	17 12	0 16	17 47	5 34	3 51	4 31	18 20	17 27	5 29			
T 13	11 7	1n45	1 35	19 1	2 35	6 48	0 7	0s12	1 3	12 16	1 27	14 19	2 3	7 6	0 38	17 12	0 16	17 47	5 34	3 52	4 33	18 20	17 28	5 29			
F 14	11 29	6 0	2 43	18 43	2 25	6 32	0 0	0 28	1 3	12 14	1 27	14 22	2 3	7 5	0 38	17 12	0 16	17 48	5 33	3 53	4 34	18 20	17 29	5 29			
S 15	11 50	10 1	3 42	18 20	2 12	6 15	0n 6	0 44	1 2	12 11	1 27	14 24	2 3	7 4	0 38	17 12	0 16	17 48	5 33	3 55	4 35	18 20	17 29	5 29			
S 16	12 11	13 32	4 28	17 52	1 58	5 57	0 12	0 59	1 2	12 8	1 27	14 26	2 2	7 3	0 38	17 12	0 16	17 48	5 33	3 57	4 36	18 19	17 30	5 28			
M17	12 31	16 15	4 58	17 20	1 43	5 39	0 18	1 15	1 2	12 6	1 27	14 28	2 2	7 2	0 38	17 12	0 16	17 49	5 33	4 0	4 38	18 19	17 31	5 28			
T 18	12 52	17 56	5 8	16 44	1 25	5 21	0 23	1 30	1 2	12 3	1 26	14 30	2 2	7 2	0 38	17 12	0 16	17 49	5 32	4 3	4 39	18 19	17 32	5 28			
W19	13 12	18 28	4 59	16 4	1 7	5 2	0 29	1 46	1 2	12 1	1 26	14 32	2 2	7 1	0 38	17 12	0 16	17 49	5 32	4 5	4 40	18 19	17 32	5 28			
T 20	13 32	17 47	4 31	15 21	0 47	4 43	0 34	2 1	1 1	11 58	1 26	14 34	2 2	7 0	0 38	17 12	0 16	17 50	5 32	4 6	4 41	18 19	17 33	5 28			
F 21	13 52	15 59	3 47	14 36	0 26	4 24	0 40	2 17	1 1	11 55	1 26	14 36	2 2	6 59	0 38	17 11	0 16	17 50	5 32	4 7	4 43	18 18	17 34	5 27			
S 22	14 12	13 16	2 50	13 50	0 6	4 4	0 45	2 32	1 1	11 53	1 26	14 38	2 2	6 58	0 38	17 11	0 16	17 50	5 31	4 7	4 44	18 18	17 34	5 27			
S 23	14 31	9 50	1 43	13 6	0n15	3 44	0 50	2 47	1 1	11 50	1 26	14 40	2 2	6 57	0 38	17 11	0 16	17 51	5 31	4 6	4 45	18 18	17 35	5 27			
M24	14 50	5 56	0 32	12 23	0 35	3 23	0 55	3 3	1 0	11 47	1 26	14 43	2 2	6 56	0 38	17 11	0 16	17 51	5 31	4 6	4 46	18 18	17 36	5 27			
T 25	15 9	1 47	0n40	11 43	0 53	3 2	0 59	3 18	1 0	11 45	1 26	14 45	2 2	6 56	0 38	17 11	0 16	17 51	5 31	4 6	4 48	18 18	17 36	5 27			
W26	15 28	2s24	1 48	11 7	1 11	2 41	1 4	3 34	1 0	11 42	1 26	14 47	2 2	6 55	0 38	17 11	0 16	17 51	5 31	4 7	4 49	18 17	17 37	5 26			
T 27	15 46	6 24	2 50	10 37	1 26	2 20	1 8	3 49	1 0	11 40	1 25	14 49	2 2	6 54	0 38	17 11	0 16	17 52	5 30	4 8	4 50	18 17	17 37	5 26			
F 28	16 5	10 3	3 42	10 12	1 40	1 58	1 13	4 4	0 59	11 37	1 25	14 51	2 2	6 53	0 38	17 11	0 16	17 52	5 30	4 11	4 51	18 17	17 38	5 26			
S 29	16 23	13 11	4 22	9 52	1 52	1 36	1 17	4 20	0 59	11 35	1 25	14 53	2 2	6 52	0 38	17 11	0 16	17 52	5 30	4 15	4 52	18 17	17 39	5 26			
S 30	16 40	15 41	4 49	9 39	2 2	1 14	1 21	4 35	0 59	11 32	1 25	14 55	2 2	6 52	0 38	17 11	0 16	17 53	5 30	4 19	4 54	18 16	17 39	5 26			
M31	16s58	17s26	5n 2	9s31	2n10	0n52	1n25	4s50	0n59	11n30	1s25	14s57	2n 2	6n51	0s38	17s11	0s16	17s53	5n29	4n24	4n55	18s16	17s40	5n26			

ASTRODIENST EPHEMERIS for the year 1513  
geocentric

NOVEMBER 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 17 40	18♌ 1'23	25♊ 15	0♌ 19	2♌ 10	15♌ 10	3°R42	16♌ 54	18°R53	13≈ 9	24♊ 6	18°R44	17♎ 32	12♈ 27	19♊ 30	T 1
W 2	3 21 37	19° 1'58	7♈ 11	0°40	3°16	15°49	3♈ 34	17° 1	18°Y51	13° 9	24° 8	18♎ 35	17°29	12°33	19°36	W 2
T 3	3 25 33	20° 2'34	19° 2	1°10	4°21	16°28	3°27	17° 8	18°49	13°10	24°10	18°27	17°26	12°40	19°42	T 3
F 4	3 29 30	21° 3'12	0♈ 51	1°48	5°28	17° 6	3°19	17°16	18°47	13°11	24°12	18°23	17°23	12°47	19°48	F 4
S 5	3 33 26	22° 3'50	12°44	2°34	6°34	17°45	3°12	17°23	18°45	13°11	24°13	18°20	17°19	12°54	19°54	S 5
S 6	3 37 23	23° 4'30	24°45	3°26	7°41	18°24	3° 5	17°30	18°43	13°12	24°15	18°D20	17°16	13° 0	20° 0	S 6
M 7	3 41 19	24° 5'11	6♊ 59	4°24	8°48	19° 3	2°58	17°37	18°41	13°13	24°17	18°20	17°13	13° 7	20° 6	M 7
T 8	3 45 16	25° 5'53	19°32	5°27	9°55	19°42	2°51	17°44	18°39	13°13	24°19	18°R21	17°10	13°14	20°12	T 8
W 9	3 49 13	26° 6'36	2°Y29	6°34	11° 2	20°20	2°44	17°51	18°38	13°14	24°21	18°20	17° 7	13°20	20°19	W 9
T 10	3 53 9	27° 7'20	15°53	7°45	12°10	20°59	2°37	17°58	18°36	13°15	24°23	18°17	17° 4	13°27	20°25	T 10
F 11	3 57 6	28° 8'05	29°45	8°59	13°17	21°38	2°30	18° 5	18°34	13°16	24°25	18°11	17° 0	13°34	20°31	F 11
S 12	4 1 2	29° 8'51	14♈ 4	10°16	14°25	22°17	2°24	18°12	18°32	13°17	24°27	18° 3	16°57	13°40	20°38	S 12
S 13	4 4 59	0♊ 9'39	28°45	11°35	15°34	22°56	2°17	18°19	18°31	13°18	24°29	17°52	16°54	13°47	20°44	S 13
M14	4 8 55	1°10'28	13♌ 41	12°57	16°42	23°35	2°11	18°26	18°29	13°19	24°31	17°41	16°51	13°54	20°50	M14
T 15	4 12 52	2°11'18	28°43	14°20	17°51	24°13	2° 5	18°33	18°28	13°20	24°33	17°30	16°48	14° 1	20°57	T 15
W16	4 16 48	3°12'09	13♈ 41	15°44	18°59	24°52	1°59	18°40	18°26	13°21	24°35	17°21	16°44	14° 7	21° 3	W16
T 17	4 20 45	4°13'02	28°25	17°10	20° 8	25°31	1°53	18°47	18°25	13°22	24°37	17°14	16°41	14°14	21° 9	T 17
F 18	4 24 42	5°13'56	12♌ 52	18°37	21°18	26°10	1°48	18°54	18°23	13°23	24°40	17°10	16°38	14°21	21°16	F 18
S 19	4 28 38	6°14'52	26°57	20° 5	22°27	26°49	1°42	19° 1	18°22	13°24	24°42	17° 9	16°35	14°27	21°22	S 19
S 20	4 32 35	7°15'48	10♎ 40	21°33	23°36	27°28	1°37	19° 8	18°20	13°25	24°44	17° 9	16°32	14°34	21°29	S 20
M21	4 36 31	8°16'46	24° 4	23° 2	24°46	28° 7	1°32	19°15	18°19	13°26	24°46	17° 8	16°29	14°41	21°35	M21
T 22	4 40 28	9°17'46	7♌ 10	24°32	25°56	28°46	1°27	19°22	18°18	13°27	24°48	17° 7	16°25	14°48	21°42	T 22
W23	4 44 24	10°18'46	20° 2	26° 2	27° 6	29°25	1°22	19°29	18°16	13°29	24°50	17° 4	16°22	14°54	21°48	W23
T 24	4 48 21	11°19'48	2♌ 41	27°32	28°16	0♌ 4	1°18	19°35	18°15	13°30	24°52	16°57	16°19	15° 1	21°55	T 24
F 25	4 52 17	12°20'50	15°10	29° 3	29°26	0°43	1°13	19°42	18°14	13°31	24°54	16°47	16°16	15° 8	22° 1	F 25
S 26	4 56 14	13°21'54	27°30	0♊ 34	0♌ 37	1°22	1° 9	19°49	18°13	13°33	24°57	16°35	16°13	15°14	22° 8	S 26
S 27	5 0 11	14°22'58	9♊ 41	2° 6	1°47	2° 1	1° 5	19°56	18°12	13°34	24°59	16°20	16°10	15°21	22°15	S 27
M28	5 4 7	15°24'03	21°46	3°38	2°58	2°40	1° 1	20° 2	18°11	13°35	25° 1	16° 5	16° 6	15°28	22°21	M28
T 29	5 8 4	16°25'09	3♈ 44	5° 9	4° 8	3°19	0°58	20° 9	18°10	13°37	25° 3	15°51	16° 3	15°34	22°28	T 29
W30	5 12 0	17♊ 26'16	15♈ 36	6♊ 42	5♌ 19	3♌ 58	0♈ 54	20♌ 16	18°Y 9	13≈ 38	25♊ 5	15♎ 38	16♎ 0	15♈ 41	22♊ 34	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	17s15	18s23	5n 2	9s29	2n16	0n29	1n28	5s 5	0n58	11n27	1s25	14s59	2n 2	6n50	0s38	17s10
W 2	17 31	18 30	4 48	9 32	2 21	0 6	1 32	5 21	0 58	11 25	1 25	15 1	2 2	6 49	0 38	17 10
T 3	17 48	17 49	4 22	9 40	2 24	0s17	1 36	5 36	0 58	11 22	1 24	15 3	2 2	6 49	0 38	17 10
F 4	18 4	16 21	3 45	9 52	2 25	0 40	1 39	5 51	0 58	11 20	1 24	15 5	2 2	6 48	0 38	17 10
S 5	18 20	14 11	2 58	10 7	2 25	1 3	1 42	6 6	0 57	11 18	1 24	15 7	2 2	6 47	0 38	17 10
S 6	18 35	11 23	2 2	10 25	2 25	1 27	1 45	6 21	0 57	11 15	1 24	15 9	2 2	6 46	0 38	17 9
M 7	18 50	8 2	1 0	10 46	2 23	1 50	1 48	6 36	0 57	11 13	1 24	15 11	2 2	6 46	0 38	17 9
T 8	19 5	4 15	0s 6	11 10	2 20	2 14	1 51	6 51	0 57	11 11	1 23	15 13	2 2	6 45	0 38	17 9
W 9	19 20	0 9	1 14	11 35	2 17	2 38	1 53	7 6	0 56	11 9	1 23	15 15	2 2	6 44	0 37	17 9
T 10	19 34	4n 6	2 21	12 2	2 13	3 2	1 56	7 21	0 56	11 7	1 23	15 17	2 2	6 44	0 37	17 9
F 11	19 48	8 16	3 21	12 30	2 8	3 27	1 58	7 36	0 56	11 5	1 23	15 19	2 2	6 43	0 37	17 8
S 12	20 1	12 7	4 11	12 59	2 3	3 51	2 1	7 50	0 55	11 3	1 23	15 21	2 2	6 42	0 37	17 8
S 13	20 14	15 18	4 45	13 29	1 57	4 15	2 3	8 5	0 55	11 1	1 22	15 23	2 2	6 42	0 37	17 8
M14	20 27	17 32	5 1	13 59	1 52	4 40	2 5	8 20	0 55	10 59	1 22	15 25	2 2	6 41	0 37	17 8
T 15	20 39	18 34	4 56	14 30	1 45	5 4	2 7	8 34	0 54	10 57	1 22	15 27	2 2	6 41	0 37	17 7
W16	20 51	18 19	4 30	15 1	1 39	5 29	2 8	8 49	0 54	10 55	1 22	15 29	2 2	6 40	0 37	17 7
T 17	21 3	16 49	3 48	15 32	1 32	5 53	2 10	9 4	0 54	10 53	1 21	15 30	2 2	6 40	0 37	17 7
F 18	21 14	14 16	2 51	16 2	1 25	6 18	2 12	9 18	0 53	10 52	1 21	15 32	2 2	6 39	0 37	17 6
S 19	21 24	10 55	1 45	16 33	1 18	6 42	2 13	9 32	0 53	10 50	1 21	15 34	2 2	6 39	0 37	17 6
S 20	21 35	7 3	0 34	17 3	1 11	7 7	2 14	9 47	0 53	10 48	1 21	15 36	2 2	6 38	0 37	17 6
M21	21 45	2 55	0n37	17 33	1 4	7 31	2 15	10 1	0 52	10 47	1 20	15 38	2 2	6 38	0 37	17 5
T 22	21 54	1s16	1 44	18 2	0 57	7 55	2 16	10 15	0 52	10 45	1 20	15 40	2 2	6 37	0 37	17 5
W23	22 3	5 19	2 44	18 30	0 50	8 20	2 17	10 29	0 52	10 44	1 20	15 41	2 2	6 37	0 37	17 5
T 24	22 12	9 3	3 36	18 58	0 42	8 44	2 18	10 43	0 51	10 43	1 19	15 43	2 2	6 36	0 37	17 4
F 25	22 20	12 21	4 16	19 26	0 35	9 8	2 19	10 57	0 51	10 41	1 19	15 45	2 2	6 36	0 37	17 4
S 26	22 28	15 3	4 43	19 52	0 28	9 32	2 19	11 11	0 51	10 40	1 19	15 47	2 2	6 35	0 37	17 4
S 27	22 35	17 4	4 57	20 18	0 21	9 56	2 20	11 25	0 50	10 39	1 19	15 49	2 2	6 35	0 37	17 3
M28	22 42	18 17	4 58	20 43	0 13	10 20	2 20	11 39	0 50	10 38	1 18	15 50	2 2	6 35	0 37	17 3
T 29	22 48	18 42	4 45	21 7	0 6	10 44	2 20	11 53	0 49	10 37	1 18	15 52	2 2	6 34	0 37	17 2
W30	22s54	18s17	4n20	21s30	0s 1	11s 8	2n20	12s 6	0n49	10n36	1s18	15s54	2n 2	6n34	0s37	17s 2

Julian Day Number = 2273985.5, Delta T = 261.08 sec

Ecliptic obliquity = 23°30'00, Nutation = - 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°57'25, Lahiri = 17°04'25 Julian Calendar 1 Nov. 1513 == Greg. Calendar 11 Nov. 1513

# ASTRODIENST EPHEMERIS for the year 1513

## geocentric

DECEMBER 1513 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 15 57	18°27'23"	27°32'26"	8°14'	6°30'	4°37'	0°R51	20°M22	18°R 8	13°40'	25°7'	15°R27	15°M57	15°348	22°41'	T 1
F 2	5 19 53	19°28'30"	9°14'	9°46'	7°41'	5°16'	0°B48	20°29	18°Y 7	13°41'	25°10'	15°M20	15°54	15°55	22°47'	F 2
S 3	5 23 50	20°29'38"	21° 6'	11°19'	8°53'	5°55'	0°45	20°35	18° 6	13°43'	25°12'	15°15	15°50	16° 1	22°54'	S 3
S 4	5 27 46	21°30'46"	3°4'	12°52'	10° 4'	6°34'	0°42	20°42	18° 6	13°44'	25°14'	15°13	15°47	16° 8	23° 1	S 4
M 5	5 31 43	22°31'54"	15°14'	14°25'	11°15'	7°13'	0°40	20°48	18° 5	13°46'	25°16'	15°13	15°44	16°15	23° 7	M 5
T 6	5 35 40	23°33'03"	27°42'	15°58'	12°27'	7°52'	0°38	20°55	18° 4	13°47'	25°18'	15°13	15°41	16°21	23°14	T 6
W 7	5 39 36	24°34'11"	10°Y32	17°31'	13°38'	8°31'	0°36	21° 1	18° 4	13°49'	25°20'	15°12	15°38	16°28	23°20	W 7
T 8	5 43 33	25°35'20"	23°49'	19° 5'	14°50'	9°10'	0°34	21° 7	18° 3	13°51'	25°23'	15° 9	15°35	16°35	23°27	T 8
F 9	5 47 29	26°36'29"	7°B37	20°39'	16° 2'	9°49'	0°32	21°14	18° 3	13°52'	25°25'	15° 4	15°31	16°42	23°34	F 9
S 10	5 51 26	27°37'38"	21°55'	22°13'	17°14'	10°28'	0°31	21°20	18° 2	13°54'	25°27'	14°56	15°28	16°48	23°40	S 10
S 11	5 55 22	28°38'46"	6°II41	23°47'	18°26'	11° 8'	0°29	21°26	18° 2	13°56'	25°29'	14°46	15°25	16°55	23°47	S 11
M12	5 59 19	29°39'56"	21°47'	25°22'	19°38'	11°47'	0°28	21°32	18° 2	13°57'	25°31'	14°34	15°22	17° 2	23°53	M12
T 13	6 3 15	0°341'05"	7°B 5	26°57'	20°50'	12°26'	0°28	21°38	18° 1	13°59'	25°34'	14°23	15°19	17° 8	24° 0	T 13
W14	6 7 12	1°42'14"	22°22'	28°32'	22° 2'	13° 5'	0°27	21°44	18° 1	14° 1	25°36'	14°14	15°16	17°15	24° 6	W14
T 15	6 11 9	2°43'24"	7°B28	0°3 7	23°14'	13°44'	0°27	21°50	18° 1	14° 3	25°38'	14° 7	15°12	17°22	24°13	T 15
F 16	6 15 5	3°44'34"	22°14'	1°43'	24°27'	14°23'	0°D26	21°56	18° 1	14° 5	25°40'	14° 2	15° 9	17°28	24°19	F 16
S 17	6 19 2	4°45'44"	6°M35	3°19'	25°39'	15° 2'	0°27	22° 2	18° 1	14° 7	25°42'	14° 1	15° 6	17°35	24°26	S 17
S 18	6 22 58	5°46'54"	20°29'	4°56'	26°52'	15°41'	0°27	22° 8	18°D 1	14° 8	25°44'	14°D 1	15° 3	17°42	24°32	S 18
M19	6 26 55	6°48'05"	3°B57	6°32'	28° 4'	16°21'	0°27	22°14	18° 1	14°10'	25°47'	14°R 1	15° 0	17°49	24°39	M19
T 20	6 30 51	7°49'15"	17° 1	8°10'	29°17'	17° 0'	0°28	22°19	18° 1	14°12'	25°49'	14° 1	14°56	17°55	24°45	T 20
W21	6 34 48	8°50'26"	29°46'	9°47'	0°X29	17°39'	0°29	22°25	18° 1	14°14'	25°51'	13°58	14°53	18° 2	24°52	W21
T 22	6 38 44	9°51'37"	12°M16	11°25'	1°42'	18°18'	0°30	22°31	18° 1	14°16'	25°53'	13°54	14°50	18° 9	24°58	T 22
F 23	6 42 41	10°52'48"	24°33'	13° 4'	2°55'	18°57'	0°31	22°36	18° 1	14°18'	25°55'	13°46	14°47	18°15	25° 5	F 23
S 24	6 46 38	11°53'59"	6°X41	14°42'	4° 8'	19°37'	0°33	22°42	18° 2	14°20'	25°57'	13°36	14°44	18°22	25°11	S 24
S 25	6 50 34	12°55'10"	18°42'	16°22'	5°21'	20°16'	0°34	22°47	18° 2	14°22'	25°59'	13°25	14°41	18°29	25°17	S 25
M26	6 54 31	13°56'21"	0°B38	18° 1	6°34'	20°55'	0°36	22°52	18° 3	14°24'	26° 2	13°12	14°37	18°35	25°24	M26
T 27	6 58 27	14°57'32"	12°31'	19°41'	7°47'	21°34'	0°38	22°58	18° 3	14°26'	26° 4	13° 0	14°34	18°42	25°30	T 27
W28	7 2 24	15°58'42"	24°22'	21°22'	9° 0'	22°13'	0°41	23° 3	18° 3	14°28'	26° 6	12°50	14°31	18°49	25°36	W28
T 29	7 6 20	16°59'52"	6°M11	23° 3	10°13'	22°53'	0°43	23° 8	18° 4	14°30'	26° 8	12°41	14°28	18°56	25°43	T 29
F 30	7 10 17	18° 1'01"	18° 3	24°44'	11°26'	23°32'	0°46	23°13	18° 5	14°32'	26°10'	12°35	14°25	19° 2	25°49	F 30
S 31	7 14 14	19°3 2'09"	29°M57	26°B25	12°X39	24°M11	0°B49	23°M18	18°Y 5	14°M34	26°X12	12°M32	14°M22	19°B 9	25°X55	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23s 0	17s 4	3n44	21s52	0s 8	11s31	2n20	12s20	0n49	10n35	1s17	15s55	2n 2	6n34	0s37	17s 2
F 2	23 5	15 8	2 58	22 13	0 14	11 54	2 20	12 33	0 48	10 34	1 17	15 57	2 2	6 33	0 37	17 1
S 3	23 9	12 33	2 4	22 33	0 21	12 17	2 20	12 46	0 48	10 34	1 17	15 59	2 2	6 33	0 37	17 1
S 4	23 14	9 25	1 4	22 52	0 28	12 40	2 19	13 0	0 47	10 33	1 17	16 0	2 2	6 33	0 37	17 0
M 5	23 17	5 50	0s 0	23 9	0 34	13 3	2 19	13 13	0 47	10 33	1 16	16 2	2 2	6 33	0 37	17 0
T 6	23 21	1 55	1 6	23 26	0 41	13 25	2 18	13 26	0 47	10 32	1 16	16 4	2 2	6 33	0 37	16 59
W 7	23 23	2n11	2 10	23 42	0 47	13 47	2 18	13 39	0 46	10 32	1 16	16 5	2 2	6 32	0 37	16 59
T 8	23 26	6 20	3 9	23 56	0 53	14 9	2 17	13 52	0 46	10 31	1 15	16 7	2 3	6 32	0 37	16 58
F 9	23 27	10 18	4 0	24 9	0 59	14 30	2 16	14 5	0 45	10 31	1 15	16 8	2 3	6 32	0 37	16 58
S 10	23 29	13 49	4 38	24 21	1 5	14 51	2 15	14 17	0 45	10 31	1 15	16 10	2 3	6 32	0 36	16 57
S 11	23 30	16 35	4 58	24 31	1 10	15 12	2 14	14 30	0 44	10 31	1 14	16 11	2 3	6 32	0 36	16 57
M12	23 30	18 16	4 59	24 41	1 16	15 33	2 13	14 43	0 44	10 31	1 14	16 13	2 3	6 32	0 36	16 56
T 13	23 30	18 41	4 38	24 48	1 21	15 53	2 12	14 55	0 43	10 31	1 14	16 14	2 3	6 32	0 36	16 56
W14	23 29	17 44	3 58	24 55	1 26	16 13	2 11	15 7	0 43	10 31	1 13	16 16	2 3	6 32	0 36	16 55
T 15	23 28	15 32	3 1	25 0	1 30	16 33	2 9	15 19	0 43	10 31	1 13	16 17	2 3	6 32	0 36	16 55
F 16	23 27	12 21	1 53	25 4	1 35	16 52	2 8	15 32	0 42	10 31	1 13	16 19	2 3	6 31	0 36	16 54
S 17	23 25	8 31	0 39	25 6	1 39	17 11	2 6	15 44	0 42	10 31	1 13	16 20	2 3	6 32	0 36	16 54
S 18	23 22	4 19	0n34	25 7	1 43	17 29	2 5	15 55	0 41	10 32	1 12	16 22	2 3	6 32	0 36	16 53
M19	23 19	0 1	1 44	25 7	1 47	17 47	2 3	16 7	0 41	10 32	1 12	16 23	2 4	6 32	0 36	16 53
T 20	23 16	4s 9	2 46	25 5	1 50	18 5	2 1	16 19	0 40	10 33	1 12	16 24	2 4	6 32	0 36	16 52
W21	23 12	8 1	3 38	25 1	1 53	18 22	1 59	16 30	0 40	10 33	1 11	16 26	2 4	6 32	0 36	16 52
T 22	23 8	11 27	4 19	24 56	1 56	18 38	1 57	16 42	0 39	10 34	1 11	16 27	2 4	6 32	0 36	16 51
F 23	23 3	14 19	4 47	24 49	1 59	18 55	1 55	16 53	0 39	10 35	1 11	16 28	2 4	6 32	0 36	16 51
S 24	22 58	16 32	5 1	24 41	2 1	19 10	1 53	17 4	0 38	10 36	1 10	16 29	2 4	6 32	0 36	16 50
S 25	22 52	18 0	5 2	24 31	2 3	19 25	1 51	17 15	0 38	10 36	1 10	16 31	2 4	6 32	0 36	16 49
M26	22 46	18 40	4 50	24 20	2 4	19 40	1 49	17 26	0 37	10 37	1 10	16 32	2 4	6 32	0 36	16 49
T 27	22 39	18 31	4 25	24 7	2 5	19 54	1 47	17 37	0 36	10 38	1 9	16 33	2 4	6 33	0 36	16 48
W28	22 32	17 33	3 48	23 52	2 6	20 8	1 44	17 48	0 36	10 40	1 9	16 34	2 5	6 33	0 36	16 48
T 29	22 25	15 50	3 2	23 36	2 6	20 21	1 42	17 58	0 35	10 41	1 9	16 36	2 5	6 33	0 36	16 47
F 30	22 17	13 26	2 8	23 18	2 6	20 34	1 40	18 9	0 35	10 42	1 8	16 37	2 5	6 33	0 36	16 46
S 31	22s 9	10s28	1n 7	22s58	2s 5	20s46	1n37	18s19	0n34	10n43	1s 8	16s38	2n 5	6n34	0s36	16s46

Julian Day Number = 2274015.5, Delta T = 260.90 sec

Ecliptic obliquity = 23°29'59", Nutation = - 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°57'29", Lahiri = 17°04'29" Julian Calendar 1 Dec. 1513 == Greg. Calendar 11 Dec. 1513