



Astrodienst Ephemeris Tables for the year 1461

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 1461

geocentric

JANUARY 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 17 31	19°35'12	15°26'	23°10'	3°49'	2°34'	24°33'	22°30'	8°R 6	22°22'	22°R22	19°R24	19°24'	22°32'	0°M30	T 1
F 2	7 21 28	20°56'17	29°28'	24°52'	4°44'	2°51'	24°43'	22°37'	8°M 4	22°00'	22°R20	19°24'	19°20'	22°39'	0°34'	F 2
S 3	7 25 24	21°57'22	13°22'	26°34'	5°39'	3°08'	24°53'	22°45'	8°03'	22°01'	22°19'	19°24'	19°17'	22°45'	0°38'	S 3
S 4	7 29 21	22°58'26	26°12'	28°17'	6°35'	3°24'	25°03'	22°52'	8°01'	22°01'	22°18'	19°D24	19°14'	22°52'	0°42'	S 4
M 5	7 33 18	23°59'30	8°M58	29°59'	7°31'	3°39'	25°12'	22°59'	8°00'	22°02'	22°17'	19°24'	19°11'	22°58'	0°45'	M 5
T 6	7 37 14	25°00'34	21°26'	1°34'3	8°28'	3°54'	25°22'	23°06'	7°58'	22°02'	22°15'	19°25'	19°08'	23°05'	0°48'	T 6
W 7	7 41 11	26°01'37	3°37'39	3°27'	9°25'	4°09'	25°32'	23°13'	7°56'	22°02'	22°14'	19°25'	19°05'	23°12'	0°52'	W 7
T 8	7 45 7	27°02'39	15°40'	5°11'	10°23'	4°23'	25°41'	23°20'	7°55'	22°02'	22°13'	19°26'	19°01'	23°18'	0°55'	T 8
F 9	7 49 4	28°03'41	27°34'	6°55'	11°22'	4°37'	25°50'	23°27'	7°53'	22°02'	22°11'	19°27'	18°58'	23°25'	0°58'	F 9
S 10	7 53 0	29°04'42	9°23'	8°39'	12°20'	4°50'	25°59'	23°34'	7°51'	22°03'	22°10'	19°28'	18°55'	23°32'	1°01'	S 10
S 11	7 56 57	0°54'42	21°10'	10°24'	13°20'	5°02'	26°08'	23°41'	7°49'	22°03'	22°09'	19°R28	18°52'	23°38'	1°04'	S 11
M12	8 0 53	1°06'41	2°57'	12°08'	14°20'	5°14'	26°17'	23°48'	7°47'	22°03'	22°07'	19°28'	18°49'	23°45'	1°06'	M12
T 13	8 4 50	2°07'39	14°47'	13°52'	15°20'	5°25'	26°26'	23°56'	7°45'	22°03'	22°06'	19°26'	18°45'	23°52'	1°09'	T 13
W14	8 8 47	3°08'36	26°41'	15°36'	16°20'	5°36'	26°35'	24°03'	7°43'	22°R 3	22°05'	19°25'	18°42'	23°58'	1°12'	W14
T 15	8 12 43	4°09'32	8°42'	17°18'	17°21'	5°47'	26°43'	24°10'	7°41'	22°03'	22°03'	19°22'	18°39'	24°05'	1°14'	T 15
F 16	8 16 40	5°10'27	20°52'	19°00'	18°22'	5°56'	26°52'	24°17'	7°39'	22°03'	22°02'	19°20'	18°36'	24°12'	1°16'	F 16
S 17	8 20 36	6°11'20	3°Y14	20°41'	19°24'	6°05'	27°00'	24°24'	7°37'	22°03'	22°00'	19°18'	18°33'	24°18'	1°18'	S 17
S 18	8 24 33	7°12'12	15°49'	22°19'	20°26'	6°14'	27°08'	24°31'	7°35'	22°03'	21°59'	19°16'	18°30'	24°25'	1°20'	S 18
M19	8 28 29	8°13'02	28°42'	23°56'	21°28'	6°22'	27°16'	24°38'	7°33'	22°02'	21°57'	19°14'	18°26'	24°32'	1°22'	M19
T 20	8 32 26	9°13'51	11°56'	25°30'	22°31'	6°29'	27°24'	24°45'	7°31'	22°02'	21°56'	19°D14	18°23'	24°38'	1°24'	T 20
W21	8 36 22	10°14'39	25°32'	27°01'	23°34'	6°36'	27°32'	24°52'	7°29'	22°02'	21°55'	19°15'	18°20'	24°45'	1°26'	W21
T 22	8 40 19	11°15'25	9°II32	28°28'	24°37'	6°42'	27°40'	24°59'	7°26'	22°02'	21°53'	19°16'	18°17'	24°51'	1°27'	T 22
F 23	8 44 16	12°16'09	23°56'	29°51'	25°41'	6°47'	27°47'	25°05'	7°24'	22°01'	21°52'	19°18'	18°14'	24°58'	1°29'	F 23
S 24	8 48 12	13°16'52	8°41'	1°X 9	26°45'	6°52'	27°55'	25°12'	7°22'	22°01'	21°50'	19°19'	18°11'	25°05'	1°30'	S 24
S 25	8 52 9	14°17'33	23°43'	2°21'	27°49'	6°56'	28°02'	25°19'	7°19'	22°01'	21°49'	19°R19	18°07'	25°11'	1°32'	S 25
M26	8 56 5	15°18'12	8°L53	3°27'	28°53'	6°59'	28°09'	25°26'	7°17'	22°01'	21°47'	19°18'	18°04'	25°18'	1°33'	M26
T 27	9 0 2	16°18'51	24°02'	4°26'	29°58'	7°02'	28°16'	25°33'	7°15'	22°00'	21°46'	19°15'	18°01'	25°25'	1°34'	T 27
W28	9 3 58	17°19'27	9°M 1	5°16'	1°3 3	7°04'	28°23'	25°40'	7°12'	22°00'	21°44'	19°12'	17°58'	25°31'	1°35'	W28
T 29	9 7 55	18°20'02	23°41'	5°58'	2°08'	7°05'	28°30'	25°46'	7°10'	21°59'	21°43'	19°07'	17°55'	25°38'	1°35'	T 29
F 30	9 11 51	19°20'36	7°45'	6°31'	3°13'	7°R 6	28°36'	25°53'	7°08'	21°59'	21°41'	19°03'	17°51'	25°45'	1°36'	F 30
S 31	9 15 48	20°21'09	21°42'	6°X54	4°319	7°45	28°M43	26°30	7°M 5	21°458	21°R40	18°59	17°48	25°51	1°M37	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
T 1	22s 2	9n49	4n24	23s33	2s 5	16s58	4n 4	1n32	2n47	18s 4	0n55	21s47	0s 9	9n18	0n48	6s58
F 2	21 52	4 47	4 59	23 16	2 5	17 9	4 3	1 26	2 48	18 6	0 55	21 45	0 9	9 18	0 48	6 58
S 3	21 43	0s18	5 16	22 57	2 5	17 20	4 2	1 20	2 49	18 9	0 55	21 44	0 9	9 19	0 48	6 58
S 4	21 33	5 14	5 16	22 36	2 5	17 31	4 0	1 15	2 50	18 11	0 55	21 43	0 10	9 19	0 48	6 58
M 5	21 22	9 47	5 0	22 14	2 4	17 42	3 59	1 10	2 52	18 13	0 56	21 42	0 10	9 20	0 48	6 59
T 6	21 11	13 50	4 30	21 49	2 2	17 53	3 57	1 5	2 53	18 16	0 56	21 41	0 10	9 21	0 48	6 59
W 7	21 0	17 12	3 48	21 24	2 0	18 4	3 55	1 1	2 54	18 18	0 56	21 40	0 10	9 21	0 48	6 59
T 8	20 49	19 48	2 57	20 56	1 58	18 14	3 53	0 56	2 55	18 20	0 56	21 39	0 10	9 22	0 48	6 59
F 9	20 37	21 30	1 59	20 27	1 55	18 24	3 50	0 52	2 57	18 22	0 56	21 38	0 10	9 23	0 48	6 59
S 10	20 24	22 15	0 56	19 56	1 51	18 34	3 48	0 48	2 58	18 24	0 56	21 36	0 10	9 24	0 48	6 59
S 11	20 11	22 0	0s 9	19 24	1 47	18 44	3 45	0 44	2 59	18 26	0 56	21 35	0 10	9 24	0 48	6 59
M12	19 58	20 45	1 14	18 51	1 42	18 54	3 43	0 40	3 0	18 28	0 56	21 34	0 10	9 25	0 48	6 59
T 13	19 45	18 37	2 16	18 15	1 37	19 3	3 40	0 37	3 1	18 30	0 56	21 33	0 10	9 26	0 48	6 59
W14	19 31	15 40	3 12	17 39	1 31	19 12	3 37	0 34	3 3	18 32	0 56	21 32	0 10	9 27	0 48	6 59
T 15	19 16	12 2	4 0	17 1	1 24	19 21	3 34	0 31	3 4	18 34	0 56	21 31	0 10	9 27	0 48	6 58
F 16	19 2	7 53	4 38	16 22	1 16	19 29	3 31	0 28	3 5	18 36	0 56	21 30	0 10	9 28	0 48	6 58
S 17	18 47	3 21	5 4	15 42	1 7	19 38	3 28	0 25	3 6	18 38	0 56	21 28	0 10	9 29	0 48	6 58
S 18	18 31	1n23	5 16	15 2	0 58	19 45	3 25	0 23	3 8	18 40	0 56	21 27	0 11	9 30	0 48	6 58
M19	18 16	6 11	5 12	14 20	0 48	19 53	3 21	0 21	3 9	18 41	0 57	21 26	0 11	9 31	0 48	6 58
T 20	18 0	10 50	4 52	13 39	0 37	20 0	3 18	0 19	3 10	18 43	0 57	21 25	0 11	9 31	0 48	6 58
W21	17 44	15 4	4 15	12 57	0 26	20 7	3 15	0 18	3 11	18 45	0 57	21 24	0 11	9 32	0 48	6 58
T 22	17 27	18 37	3 22	12 15	0 13	20 13	3 11	0 17	3 12	18 46	0 57	21 22	0 11	9 33	0 48	6 58
F 23	17 10	21 7	2 16	11 34	0 0	20 19	3 7	0 16	3 14	18 48	0 57	21 21	0 11	9 34	0 48	6 57
S 24	16 53	22 15	0 58	10 53	0n14	20 25	3 4	0 15	3 15	18 50	0 57	21 20	0 11	9 35	0 48	6 57
S 25	16 35	21 49	0n24	10 14	0 28	20 30	3 0	0 14	3 16	18 51	0 57	21 19	0 11	9 36	0 48	6 57
M26	16 18	19 47	1 46	9 36	0 43	20 34	2 56	0 14	3 17	18 53	0 57	21 18	0 11	9 37	0 48	6 57
T 27	16 0	16 22	3 0	9 0	0 59	20 39	2 52	0 14	3 18	18 54	0 57	21 17	0 11	9 38	0 48	6 57
W28	15 41	11 55	4 0	8 27	1 14	20 42	2 48	0 14	3 19	18 56	0 57	21 15	0 11	9 38	0 49	6 56
T 29	15 23	6 51	4 43	7 57	1 30	20 46	2 44	0 15	3 21	18 57	0 57	21 14	0 11	9 39	0 49	6 56
F 30	15 4	1 33	5 8	7 30	1 47	20 48	2 40	0 16	3 22	18 58	0 58	21 13	0 11	9 40	0 49	6 56
S 31	14s45	3s38	5n13	7s 6	2n 3	20s51	2n36	0n17	3n23	19s 0	0n58	21s12	0s12	9n41	0n49	6s56

Julian Day Number = 2254688.5, Delta T = 06m09s

Ecliptic obliquity = 23°30'30", Nutation = - 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'14", Lahiri = 16°20'14" Julian Calendar 1 Jan. 1461 == Greg. Calendar 10 Jan. 1461

ASTRODIENST EPHEMERIS for the year 1461

geocentric

FEBRUARY 1461 JC

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	14s25	8s29	5n 1	6s47	2n18	20s52	2n32	0n18	3n24	19s 1	0n58	21s11	0s12	9n42	0n49	S 1
M 2	14 6	12 48	4 35	6 32	2 33	20 54	2 27	0 20	3 25	19 2	0 58	21 10	0 12	9 43	0 49	M 2
T 3	13 46	16 26	3 55	6 21	2 47	20 54	2 23	0 22	3 26	19 3	0 58	21 8	0 12	9 44	0 49	T 3
W 4	13 26	19 17	3 6	6 15	3 1	20 55	2 19	0 24	3 27	19 4	0 58	21 7	0 12	9 45	0 49	W 4
T 5	13 6	21 13	2 10	6 14	3 13	20 54	2 15	0 27	3 28	19 6	0 58	21 6	0 12	9 46	0 49	T 5
F 6	12 45	22 13	1 9	6 18	3 23	20 54	2 10	0 29	3 29	19 7	0 58	21 5	0 12	9 47	0 49	F 6
S 7	12 24	22 12	0 5	6 26	3 31	20 52	2 6	0 32	3 30	19 8	0 58	21 4	0 12	9 48	0 49	S 7
S 8	12 4	21 12	0s59	6 38	3 38	20 50	2 1	0 36	3 31	19 9	0 58	21 3	0 12	9 49	0 49	S 8
M 9	11 43	19 16	2 0	6 54	3 42	20 48	1 57	0 39	3 31	19 10	0 59	21 1	0 12	9 50	0 49	M 9
T 10	11 21	16 28	2 57	7 13	3 45	20 45	1 53	0 43	3 32	19 11	0 59	21 0	0 12	9 51	0 49	T 10
W 11	11 0	12 57	3 46	7 35	3 45	20 41	1 48	0 47	3 33	19 11	0 59	20 59	0 12	9 52	0 49	W 11
T 12	10 38	8 52	4 25	8 0	3 43	20 37	1 44	0 52	3 34	19 12	0 59	20 58	0 13	9 53	0 49	T 12
F 13	10 17	4 21	4 53	8 26	3 39	20 33	1 39	0 56	3 34	19 13	0 59	20 57	0 13	9 54	0 49	F 13
S 14	9 55	0n24	5 7	8 52	3 32	20 27	1 35	1 1	3 35	19 14	0 59	20 56	0 13	9 55	0 49	S 14
S 15	9 33	5 12	5 6	9 19	3 24	20 22	1 31	1 7	3 36	19 15	0 59	20 55	0 13	9 56	0 49	S 15
M 16	9 10	9 53	4 49	9 46	3 15	20 15	1 26	1 12	3 36	19 15	0 59	20 53	0 13	9 57	0 49	M 16
T 17	8 48	14 11	4 16	10 13	3 4	20 8	1 22	1 18	3 36	19 16	0 59	20 52	0 13	9 58	0 49	T 17
W 18	8 26	17 51	3 29	10 38	2 52	20 1	1 17	1 24	3 37	19 17	0 59	20 51	0 13	9 59	0 49	W 18
T 19	8 3	20 36	2 29	11 2	2 40	19 53	1 13	1 30	3 37	19 17	1 0	20 50	0 13	10 0	0 49	T 19
F 20	7 40	22 10	1 18	11 24	2 26	19 44	1 8	1 36	3 37	19 18	1 0	20 49	0 13	10 0	0 49	F 20
S 21	7 18	22 18	0 2	11 45	2 12	19 35	1 4	1 43	3 38	19 18	1 0	20 48	0 13	10 1	0 49	S 21
S 22	6 55	20 54	1n16	12 4	1 58	19 26	1 0	1 49	3 38	19 19	1 0	20 47	0 13	10 2	0 49	S 22
M 23	6 32	18 5	2 30	12 20	1 44	19 15	0 55	1 56	3 38	19 19	1 0	20 46	0 13	10 3	0 49	M 23
T 24	6 9	14 3	3 34	12 35	1 30	19 5	0 51	2 4	3 38	19 19	1 0	20 45	0 14	10 4	0 49	T 24
W 25	5 46	9 10	4 22	12 48	1 15	18 53	0 47	2 11	3 38	19 20	1 0	20 44	0 14	10 5	0 49	W 25
T 26	5 22	3 51	4 53	12 58	1 1	18 41	0 43	2 18	3 37	19 20	1 0	20 43	0 14	10 6	0 49	T 26
F 27	4 59	1s34	5 5	13 6	0 48	18 29	0 38	2 26	3 37	19 20	1 0	20 42	0 14	10 7	0 49	F 27
S 28	4s36	6s45	4n58	13s13	0n34	18s16	0n34	2n34	3n37	19s21	1n 0	20s41	0s14	10n 8	0n49	S 28

Julian Day Number = 2254719.5, Delta T = 06m09s

Ecliptic obliquity = 23°30'31", Nutation = - 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'18", Lahiri = 16°20'18" Julian Calendar 1 Feb. 1461 == Greg. Calendar 10 Feb. 1461

ASTRODIENST EPHEMERIS for the year 1461
geocentric

MARCH 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 10 8	19 ^h 24'40	13 ^m 5	23 ^s 50	7 ^s 11	1 ^h 32	0 ^h 36	28 ^h 57	5 ^h 50	21 ^h 30	20 ^h 58	17 ^h 13	16 ^h 16	29 ^h 4	1 ^h 4	S 1
M 2	11 14 5	20 ^h 24'18	26 ^m 2	24 ^s 20	8 ^s 21	1 ^h 11	0 ^h 37	29 ^h 2	5 ^h 48	21 ^h 28	20 ^h 57	17 ^h 8	16 ^h 13	29 ^h 11	1 ^h 1	M 2
T 3	11 18 1	21 ^h 23'54	8 ^m 35	24 ^s 53	9 ^s 31	0 ^h 50	0 ^h 38	29 ^h 7	5 ^h 45	21 ^h 27	20 ^h 55	17 ^h 5	16 ^h 10	29 ^h 17	0 ^h 58	T 3
W 4	11 21 58	22 ^h 23'28	20 ^m 48	25 ^s 31	10 ^s 40	0 ^h 28	0 ^h 39	29 ^h 12	5 ^h 43	21 ^h 26	20 ^h 54	17 ^h D 4	16 ^h 7	29 ^h 24	0 ^h 55	W 4
T 5	11 25 54	23 ^h 23'01	2 ^m 347	26 ^s 13	11 ^s 50	0 ^h 6	0 ^h 40	29 ^h 18	5 ^h 40	21 ^h 24	20 ^h 53	17 ^h 5	16 ^h 3	29 ^h 31	0 ^h 52	T 5
F 6	11 29 51	24 ^h 22'31	14 ^m 37	26 ^s 59	13 ^s 1	29 ^h 43	0 ^h 40	29 ^h 23	5 ^h 38	21 ^h 23	20 ^h 52	17 ^h R 5	16 ^h 0	29 ^h 37	0 ^h 49	F 6
S 7	11 33 47	25 ^h 22'00	26 ^m 23	27 ^s 48	14 ^s 11	29 ^h 20	0 ^h 40	29 ^h 28	5 ^h 35	21 ^h 22	20 ^h 51	17 ^h 5	15 ^h 57	29 ^h 44	0 ^h 46	S 7
S 8	11 37 44	26 ^h 21'27	8 ^m 11	28 ^s 40	15 ^s 21	28 ^h 57	0 ^h R 41	29 ^h 33	5 ^h 33	21 ^h 20	20 ^h 49	17 ^h 2	15 ^h 54	29 ^h 51	0 ^h 43	S 8
M 9	11 41 40	27 ^h 20'52	20 ^m 5	29 ^s 35	16 ^s 31	28 ^h 34	0 ^h 41	29 ^h 37	5 ^h 31	21 ^h 19	20 ^h 48	16 ^h 58	15 ^h 51	29 ^h 57	0 ^h 40	M 9
T 10	11 45 37	28 ^h 20'15	2 ^m 8	0 ^m 34	17 ^s 42	28 ^h 11	0 ^h 40	29 ^h 42	5 ^h 28	21 ^h 17	20 ^h 47	16 ^h 50	15 ^h 48	0 ^h 44	0 ^h 36	T 10
W 11	11 49 34	29 ^h 19'36	14 ^m 23	1 ^s 35	18 ^s 52	27 ^s 47	0 ^h 40	29 ^h 47	5 ^h 26	21 ^h 16	20 ^h 46	16 ^h 40	15 ^h 44	0 ^h 11	0 ^h 33	W 11
T 12	11 53 30	0 ^h 18'55	26 ^m 52	2 ^s 38	20 ^s 2	27 ^s 24	0 ^h 39	29 ^h 52	5 ^h 24	21 ^h 14	20 ^h 45	16 ^h 28	15 ^h 41	0 ^h 17	0 ^h 29	T 12
F 13	11 57 27	1 ^h 18'12	9 ^m 33	3 ^s 44	21 ^s 13	27 ^s 1	0 ^h 38	29 ^h 56	5 ^h 21	21 ^h 13	20 ^h 44	16 ^h 15	15 ^h 38	0 ^h 24	0 ^h 26	F 13
S 14	12 1 23	2 ^h 17'27	22 ^m 29	4 ^s 53	22 ^s 24	26 ^s 37	0 ^h 37	0 ^h 37	5 ^h 19	21 ^h 11	20 ^h 43	16 ^h 3	15 ^h 35	0 ^h 30	0 ^h 22	S 14
S 15	12 5 20	3 ^h 16'40	5 ^m 36	6 ^s 3	23 ^s 34	26 ^s 14	0 ^h 36	0 ^h 5	5 ^h 17	21 ^h 10	20 ^h 42	15 ^h 51	15 ^h 32	0 ^h 37	0 ^h 18	S 15
M 16	12 9 16	4 ^h 15'51	18 ^m 55	7 ^s 16	24 ^s 45	25 ^s 51	0 ^h 35	0 ^h 9	5 ^h 15	21 ^h 8	20 ^h 41	15 ^h 42	15 ^h 28	0 ^h 44	0 ^h 14	M 16
T 17	12 13 13	5 ^h 14'59	2 ^m 25	8 ^s 31	25 ^s 56	25 ^s 29	0 ^h 33	0 ^h 14	5 ^h 12	21 ^h 6	20 ^h 40	15 ^h 36	15 ^h 25	0 ^h 50	0 ^h 10	T 17
W 18	12 17 9	6 ^h 14'05	16 ^m 5	9 ^s 48	27 ^s 6	25 ^s 6	0 ^h 31	0 ^h 18	5 ^h 10	21 ^h 5	20 ^h 39	15 ^h 33	15 ^h 22	0 ^h 57	0 ^h 7	W 18
T 19	12 21 6	7 ^h 13'09	29 ^m 54	11 ^s 7	28 ^s 17	24 ^s 44	0 ^h 29	0 ^h 22	5 ^h 8	21 ^h 3	20 ^h 38	15 ^h 31	15 ^h 19	1 ^h 4	0 ^h 3	T 19
F 20	12 25 3	8 ^h 12'11	13 ^m 54	12 ^s 27	29 ^s 28	24 ^s 22	0 ^h 27	0 ^h 26	5 ^h 6	21 ^h 2	20 ^h 37	15 ^h 31	15 ^h 16	1 ^h 10	29 ^h 59	F 20
S 21	12 28 59	9 ^h 11'10	28 ^m 4	13 ^s 50	0 ^h 39	24 ^s 0	0 ^h 25	0 ^h 30	5 ^h 4	21 ^h 0	20 ^h 36	15 ^h 31	15 ^h 13	1 ^h 17	29 ^h 54	S 21
S 22	12 32 56	10 ^h 10'06	12 ^m 23	15 ^s 14	1 ^s 50	23 ^s 39	0 ^h 23	0 ^h 34	5 ^h 2	20 ^h 59	20 ^h 35	15 ^h 29	15 ^h 9	1 ^h 24	29 ^h 50	S 22
M 23	12 36 52	11 ^h 9'01	26 ^m 48	16 ^s 40	3 ^s 1	23 ^s 19	0 ^h 20	0 ^h 38	5 ^h 0	20 ^h 57	20 ^h 34	15 ^h 25	15 ^h 6	1 ^h 30	29 ^h 46	M 23
T 24	12 40 49	12 ^h 7'53	11 ^m 16	18 ^s 8	4 ^s 12	22 ^s 59	0 ^h 17	0 ^h 42	4 ^h 58	20 ^h 55	20 ^h 33	15 ^h 18	15 ^h 3	1 ^h 37	29 ^h 42	T 24
W 25	12 44 45	13 ^h 6'42	25 ^m 41	19 ^s 37	5 ^s 23	22 ^s 39	0 ^h 14	0 ^h 45	4 ^h 56	20 ^h 54	20 ^h 33	15 ^h 8	15 ^h 0	1 ^h 44	29 ^h 38	W 25
T 26	12 48 42	14 ^h 5'30	9 ^m 57	21 ^s 9	6 ^s 35	22 ^s 20	0 ^h 11	0 ^h 49	4 ^h 54	20 ^h 52	20 ^h 32	14 ^h 57	14 ^h 57	1 ^h 50	29 ^h 33	T 26
F 27	12 52 38	15 ^h 4'16	23 ^m 58	22 ^s 41	7 ^s 46	22 ^s 1	0 ^h 8	0 ^h 52	4 ^h 53	20 ^h 50	20 ^h 31	14 ^h 44	14 ^h 53	1 ^h 57	29 ^h 29	F 27
S 28	12 56 35	16 ^h 2'59	7 ^m 40	24 ^s 16	8 ^s 57	21 ^s 43	0 ^h 4	0 ^h 56	4 ^h 51	20 ^h 49	20 ^h 30	14 ^h 33	14 ^h 50	2 ^h 4	29 ^h 24	S 28
S 29	13 0 31	17 ^h 1'41	20 ^m 58	25 ^s 52	10 ^s 8	21 ^s 26	0 ^h 0	0 ^h 59	4 ^h 49	20 ^h 47	20 ^h 29	14 ^h 23	14 ^h 47	2 ^h 10	29 ^h 20	S 29
M 30	13 4 28	18 ^h 0'21	3 ^m 53	27 ^s 29	11 ^s 20	21 ^s 9	29 ^h 56	1 ^h 2	4 ^h 47	20 ^h 46	20 ^h 29	14 ^h 16	14 ^h 44	2 ^h 17	29 ^h 16	M 30
T 31	13 8 25	18 ^h 58'59	16 ^m 27	29 ^s 8	12 ^s 31	20 ^s 53	29 ^h 52	1 ^h 5	4 ^h 46	20 ^h 44	20 ^h 28	14 ^h 11	14 ^h 41	2 ^h 24	29 ^h 11	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
S 1	4s12	11s27	4n35	13s17	0n21	18s 3	0n30	2n41	3n36	19s21	1n 1	20s40	0s14	10n 9	0n49	6s44	1n48	25n 8	11n13	22n24	22n31	21s31	11s44	0n 9					
M 2	3 49	15 28	3 58	13 19	0 8	17 49	0 26	2 49	3 36	19 21	1 1	20 39	0 14	10 10	0 49	6 43	1 48	25 9	11 13	22 24	22 31	21 31	11 43	0 10					
T 3	3 25	18 40	3 11	13 20	0s 4	17 34	0 22	2 57	3 35	19 21	1 1	20 38	0 14	10 11	0 49	6 43	1 48	25 9	11 13	22 25	22 32	21 30	11 41	0 10					
W 4	3 2	20 56	2 16	13 18	0 16	17 20	0 18	3 5	3 34	19 21	1 1	20 37	0 14	10 12	0 49	6 42	1 48	25 9	11 13	22 25	22 32	21 30	11 40	0 10					
T 5	2 38	22 13	1 16	13 14	0 27	17 4	0 14	3 14	3 34	19 21	1 1	20 36	0 14	10 13	0 49	6 42	1 48	25 10	11 13	22 25	22 32	21 29	11 39	0 11					
F 6	2 14	22 29	0 13	13 9	0 38	16 48	0 10	3 22	3 33	19 21	1 1	20 35	0 14	10 14	0 49	6 41	1 48	25 10	11 13	22 25	22 33	21 29	11 37	0 11					
S 7	1 51	21 45	0s49	13 2	0 48	16 32	0 6	3 30	3 32	19 21	1 1	20 34	0 15	10 14	0 49	6 41	1 48	25 10	11 13	22 25	22 33	21 28	11 36	0 11					
S 8	1 27	20 2	1 50	12 53	0 58	16 15	0 2	3 38	3 31	19 21	1 1	20 33	0 15	10 15	0 49	6 40	1 49	25 11	11 13	22 25	22 34	21 27	11 34	0 12					
M 9	1 3	17 27	2 46	12 42	1 8	15 58	0s 2	3 46	3 29	19 21	1 1	20 32	0 15	10 16	0 49	6 39	1 49	25 11	11 12	22 26	22 34	21 27	11 33	0 12					
T 10	0 40	14 5	3 35	12 30	1 17	15 40	0 6	3 54	3 28	19 21	1 1	20 31	0 15	10 17	0 49	6 39	1 49	25 11	11 12	22 27	22 34	21 26	11 31	0 13					
W 11	0 16	10 5	4 15	12 16	1 25	15 22	0 9	4 3	3 27	19 21	1 2	20 30	0 15	10 18	0 49	6 38	1 49	25 11	11 12	22 28	22 35	21 26	11 30	0 13					
T 12	0n 8	5 35	4 44	12 1	1 33	15 3	0 13	4 11	3 25	19 21	1 2	20 29	0 15	10 19	0 48	6 38	1 49	25 12	11 12	22 29	22 35	21 25	11 28	0 13					
F 13	0 31	0 47	4 59	11 43	1 40	14 44	0 17	4 18	3 24	19 20	1 2	20 28	0 15	10 20	0 48	6 37	1 49	25 12	11 12	22 31	22 35	21 24	11 26	0 14					
S 14	0 55	4n 9	4 59	11 25	1 47	14 24	0 20	4 26	3 22	19 20	1 2	20 27	0 15	10 20	0 48	6 37	1 49	25 12	11 12	22 33	22 36	21 24	11 25	0 14					
S 15	1 18	8 58	4 44	11 5	1 54	14 4	0 24	4 34	3 21	19 20	1 2	20 26	0 15	10 21	0 48	6 36	1 49	25 12	11 12	22 34	22 36	21 23	11 25	0 14					
M 16	1 42	13 27	4 13	10 43	2 0	13 44	0 27	4 42	3 19	19 19	1 2	20 26	0 15	10 22	0 48	6 35	1 49	25 13	11 11	22 35	22 37	21 23	11 22	0 15					
T 17	2 5	17 19	3 27	10 20	2 5	13 23	0 30	4 49	3 17	19 19	1 2	20 25	0 16	10 23	0 48	6 35	1 49	25 13	11 11	22 36	22 37	21 22	11 20	0 15					
W 18	2 29	20 18	2 29	9 55	2 10	13 2	0 34	4 56	3 15	19 18	1 2	20 24	0 16	10 24	0 48	6 34	1 49	25 13	11 11	22 36	22 37	21 21	11 18	0 15					
T 19	2 52	22 9	1 22	9 29	2 14	12 41	0 37	5 3	3 13	19 18	1 2	20 23	0 16	10 24	0 48	6 34	1 49	25 13	11 11	22 36	22 38	21 21	11 16	0 16					
F 20	3 16	22 38	0 9	9 2	2 18	12 19	0 40	5 10	3 11	19 17	1 2	20 22	0 16	10 25	0 48	6 33	1 49	25 13	11 11	22 36	22 38	21 20	11 15	0 16					
S 21	3 39	21 41	1n 6	8 33	2 21	11 57	0 43	5 17	3 9	19 17	1 2	20 22	0 16	10 26	0 48	6 32	1 49	25 13	11 11	22 36	22 38	21 19	11 13	0 17					
S 22	4 2	19 20	2 17	8 3	2 24	11 34	0 46	5 23	3 7	19 16	1 2	20 21	0 16	10 26	0 48	6 32	1 49	25 14	11 10	22 36	22 39	21 19	11 11	0 17					
M 23	4 25	15 44	3 20	7 31	2 27	11 12	0 49	5 29	3 5	19 16	1 3	20 20	0 16	10 27	0 48	6 31	1 49	25 14	11 10	22 37	22 39	21 18	11 9	0 17					
T 24	4 49	11 12	4 10	6 59	2 28	10 48	0 52	5 35	3 2	19 15	1 3	20 20	0 16	10 28	0 48	6 30	1 49	25 14	11 10	22 38	22 39	21 17	11 7	0 18					
W 25	5 12	6 3	4 44	6 25	2 30	10 25	0 55	5 41	3 0	19 14	1 3	20 19	0 16	10 28	0 48	6 30	1 49	25 14	11 10	22 39	22 40	21 17	11 5	0 18					
T 26	5 34	0 38	4 59	5 50	2 31	10 1	0 58	5 46	2 58	19 14	1 3	20 18	0 16	10 29	0 48	6 29	1 49	25 14	11 10	22 40	22 40	21 16	11 4	0 18					
F 27	5 57	4s44	4 57	5 13	2 31	9 37	1 0	5 51	2 55	19 13	1 3	20 17	0 17	10 30	0 48	6 29	1 49	25 14	11 9	22 41	22 40	21 15	11 2	0 19					
S 28	6 20	9 44	4 37	4 35	2 31	9 13	1 3	5 56	2 53	19 12	1 3	20 17	0 17	10 30	0 48	6 28	1 49	25 14	11 9	22 43	22 41	21 15	11 0	0 19					
S 29	6 42	14 9	4 2	3 57	2 30	8 48	1 6	6 1	2 50	19 11	1 3	20 16	0 17	10 31	0 48	6 27	1 49	25 14	11 9	22 44	22 41	21 14	10 58	0 20					
M 30	7 5	17 47	3 16	3 17	2 29	8 23	1 8	6 5	2 48	19 10	1 3	20 16	0 17	10 32	0 48	6 27	1 49	25 14	11 9	22 45	22 42	21 13	10 56	0 20					
T 31	7n27	20s29	2n21	2s35	2s27	7s58	1s10	6n 9	2n45	19s 9	1n 3	20s15	0s17	10n32	0n48	6s26	1n49	25n14	11n 9	22n45	22n42	21s13	10s54	0n20					

ASTRODIENST EPHEMERIS for the year 1461

geocentric

APRIL 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	13 12 21	19°57'36	28°42	0°49	13°42	20°R38	29°R48	1°8	4°R44	20°R42	20°R28	14°R 8	14°38	2°30	29°R 7	W 1
T 2	13 16 18	20°56'11	10°34	2°32	14°54	20°R24	29°R44	1°11	4°R43	20°R41	20°R27	14°D 8	14°34	2°37	29°R 2	T 2
F 3	13 20 14	21°54'44	22°34	4°16	16° 5	20°10	29°39	1°14	4°41	20°39	20°26	14°R 8	14°31	2°43	28°57	F 3
S 4	13 24 11	22°53'16	4°23	6° 2	17°17	19°57	29°35	1°17	4°40	20°37	20°26	14°D 7	14°28	2°50	28°53	S 4
S 5	13 28 7	23°51'45	16°13	7°49	18°28	19°44	29°30	1°20	4°38	20°36	20°25	14° 5	14°25	2°57	28°48	S 5
M 6	13 32 4	24°50'14	28°10	9°38	19°40	19°32	29°25	1°22	4°37	20°34	20°25	14° 1	14°22	3° 3	28°44	M 6
T 7	13 36 0	25°48'40	10°19	11°29	20°52	19°22	29°20	1°25	4°35	20°32	20°24	13°55	14°19	3°10	28°39	T 7
W 8	13 39 57	26°47'05	22°42	13°21	22° 3	19°12	29°14	1°27	4°34	20°31	20°24	13°45	14°15	3°17	28°34	W 8
T 9	13 43 54	27°45'28	5°23	15°15	23°15	19° 2	29° 9	1°30	4°33	20°29	20°23	13°34	14°12	3°23	28°30	T 9
F 10	13 47 50	28°43'49	18°22	17°11	24°27	18°54	29° 3	1°32	4°32	20°28	20°23	13°22	14° 9	3°30	28°25	F 10
S 11	13 51 47	29°42'08	1°37	19° 9	25°38	18°46	28°58	1°34	4°30	20°26	20°23	13°10	14° 6	3°37	28°20	S 11
S 12	13 55 43	0°40'26	15° 8	21° 8	26°50	18°39	28°52	1°36	4°29	20°24	20°22	12°59	14° 3	3°43	28°16	S 12
M13	13 59 40	1°38'42	28°51	23° 8	28° 2	18°33	28°46	1°38	4°28	20°23	20°22	12°50	13°59	3°50	28°11	M13
T 14	14 3 36	2°36'56	12°14	25°10	29°14	18°28	28°40	1°40	4°27	20°21	20°22	12°45	13°56	3°57	28° 7	T 14
W15	14 7 33	3°35'08	26°43	27°14	0°26	18°23	28°34	1°42	4°26	20°20	20°21	12°41	13°53	4° 3	28° 2	W15
T 16	14 11 29	4°33'18	10°46	29°19	1°37	18°20	28°27	1°43	4°25	20°18	20°21	12°D41	13°50	4°10	27°57	T 16
F 17	14 15 26	5°31'26	24°52	1°25	2°49	18°17	28°21	1°45	4°24	20°16	20°21	12°41	13°47	4°17	27°53	F 17
S 18	14 19 23	6°29'32	8°59	3°33	4° 1	18°15	28°14	1°46	4°24	20°15	20°21	12°R41	13°44	4°23	27°48	S 18
S 19	14 23 19	7°27'36	23° 8	5°41	5°13	18°13	28° 8	1°48	4°23	20°13	20°21	12°40	13°40	4°30	27°44	S 19
M20	14 27 16	8°25'38	7°11	7°50	6°25	18°D13	28° 1	1°49	4°22	20°12	20°21	12°37	13°37	4°37	27°39	M20
T 21	14 31 12	9°23'38	21°19	10° 0	7°37	18°13	27°54	1°50	4°22	20°10	20°21	12°31	13°34	4°43	27°35	T 21
W22	14 35 9	10°21'36	5°17	12°11	8°49	18°14	27°47	1°51	4°21	20° 9	20°21	12°24	13°31	4°50	27°30	W22
T 23	14 39 5	11°19'32	19° 7	14°21	10° 1	18°16	27°40	1°52	4°20	20° 7	20°D21	12°14	13°28	4°57	27°26	T 23
F 24	14 43 2	12°17'27	2°14	16°32	11°13	18°18	27°33	1°53	4°20	20° 6	20°21	12° 4	13°25	5° 3	27°22	F 24
S 25	14 46 58	13°15'20	16° 5	18°41	12°25	18°21	27°26	1°54	4°19	20° 4	20°21	11°55	13°21	5°10	27°17	S 25
S 26	14 50 55	14°13'11	29° 9	20°51	13°37	18°25	27°19	1°55	4°19	20° 3	20°21	11°47	13°18	5°17	27°13	S 26
M27	14 54 52	15°11'02	11°54	22°59	14°49	18°30	27°12	1°56	4°19	20° 1	20°21	11°40	13°15	5°23	27° 9	M27
T 28	14 58 48	16° 8'50	24°21	25° 6	16° 1	18°35	27° 4	1°56	4°18	20° 0	20°21	11°37	13°12	5°30	27° 5	T 28
W29	15 2 45	17° 6'38	6°34	27°12	17°13	18°41	26°57	1°57	4°18	19°58	20°21	11°D35	13° 9	5°36	27° 0	W29
T 30	15 6 41	18° 4'24	18°34	29°15	18°25	18°R48	26°150	1°57	4°18	19°57	20°D21	11°D35	13° 5	5°43	26°56	T 30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	7n50	22s 9	1n21	1s53	2s25	7s33	1s13	6n12	2n42	19s 8	1n 3	20s14	0s17	10n33	0n48	6s25	1n49	25n14	11n 8	22n45	22n42	21s12	10s52	0n21			
T 2	8 12	22 46	0 18	1 10	2 22	7 7	1 15	6 16	2 40	19 7	1 3	20 14	0 17	10 33	0 48	6 25	1 49	25 14	11 8	22 45	22 43	21 11	10 50	0 21			
F 3	8 34	22 21	0s45	0 25	2 19	6 41	1 17	6 19	2 37	19 6	1 3	20 13	0 17	10 34	0 48	6 24	1 49	25 14	11 8	22 45	22 43	21 11	10 48	0 21			
S 4	8 55	20 55	1 45	0n20	2 15	6 15	1 19	6 22	2 34	19 5	1 3	20 13	0 17	10 34	0 48	6 24	1 49	25 14	11 8	22 45	22 43	21 10	10 46	0 22			
S 5	9 17	18 35	2 41	1 7	2 11	5 49	1 21	6 24	2 32	19 4	1 3	20 12	0 17	10 35	0 48	6 23	1 49	25 14	11 8	22 46	22 44	21 9	10 44	0 22			
M 6	9 39	15 26	3 31	1 54	2 6	5 23	1 23	6 26	2 29	19 3	1 3	20 12	0 18	10 35	0 48	6 22	1 49	25 14	11 7	22 46	22 44	21 8	10 42	0 22			
T 7	10 0	11 36	4 12	2 43	2 0	4 56	1 25	6 28	2 26	19 2	1 3	20 11	0 18	10 36	0 48	6 22	1 49	25 14	11 7	22 47	22 44	21 8	10 40	0 23			
W 8	10 21	7 13	4 42	3 32	1 54	4 29	1 27	6 29	2 24	19 1	1 3	20 11	0 18	10 36	0 48	6 21	1 49	25 14	11 7	22 48	22 45	21 7	10 38	0 23			
T 9	10 42	2 25	4 58	4 22	1 48	4 2	1 28	6 31	2 21	19 0	1 3	20 11	0 18	10 37	0 48	6 21	1 49	25 14	11 7	22 49	22 45	21 6	10 36	0 24			
F 10	11 3	2n35	5 0	5 13	1 41	3 35	1 30	6 31	2 18	18 59	1 3	20 10	0 18	10 37	0 48	6 20	1 49	25 14	11 6	22 50	22 45	21 5	10 34	0 24			
S 11	11 24	7 36	4 46	6 4	1 34	3 8	1 31	6 32	2 15	18 57	1 3	20 10	0 18	10 37	0 48	6 19	1 49	25 14	11 6	22 51	22 46	21 5	10 32	0 24			
S 12	11 44	12 20	4 16	6 56	1 26	2 41	1 33	6 32	2 13	18 56	1 3	20 9	0 18	10 38	0 48	6 19	1 49	25 14	11 6	22 52	22 46	21 4	10 30	0 25			
M13	12 5	16 32	3 30	7 49	1 18	2 13	1 34	6 32	2 10	18 55	1 3	20 9	0 18	10 38	0 48	6 18	1 49	25 13	11 6	22 53	22 46	21 3	10 28	0 25			
T 14	12 25	19 53	2 32	8 42	1 9	1 46	1 35	6 32	2 7	18 53	1 3	20 9	0 18	10 39	0 48	6 18	1 49	25 13	11 6	22 54	22 47	21 2	10 26	0 25			
W15	12 45	22 4	1 24	9 35	1 0	1 18	1 37	6 31	2 5	18 52	1 3	20 9	0 19	10 39	0 48	6 17	1 49	25 13	11 5	22 54	22 47	21 2	10 24	0 26			
T 16	13 5	22 54	0 10	10 28	0 51	0 51	1 38	6 30	2 2	18 51	1 3	20 8	0 19	10 39	0 47	6 16	1 49	25 13	11 5	22 54	22 47	21 1	10 22	0 26			
F 17	13 24	22 16	1n 4	11 22	0 41	0 23	1 39	6 29	1 59	18 49	1 3	20 8	0 19	10 39	0 47	6 16	1 49	25 13	11 5	22 54	22 48	21 0	10 20	0 26			
S 18	13 43	20 14	2 15	12 15	0 31	0n 5	1 40	6 27	1 57	18 48	1 3	20 8	0 19	10 40	0 47	6 15	1 49	25 13	11 5	22 54	22 48	20 59	10 18	0 27			
S 19	14 2	16 58	3 18	13 8	0 21	0 33	1 40	6 25	1 54	18 46	1 3	20 8	0 19	10 40	0 47	6 15	1 49	25 12	11 4	22 54	22 48	20 58	10 17	0 27			
M20	14 21	12 43	4 8	14 0	0 10	1 0	1 41	6 23	1 51	18 45	1 3	20 7	0 19	10 40	0 47	6 14	1 49	25 12	11 4	22 55	22 49	20 58	10 15	0 27			
T 21	14 40	7 48	4 44	14 52	0n 0	1 28	1 42	6 20	1 49	18 43	1 3	20 7	0 19	10 40	0 47	6 14	1 49	25 12	11 4	22 55	22 49	20 57	10 13	0 28			
W22	14 58	2 30	5 2	15 42	0 11	1 56	1 42	6 18	1 46	18 42	1 3	20 7	0 19	10 41	0 47	6 13	1 49	25 12	11 4	22 56	22 49	20 56	10 11	0 28			
T 23	15 16	2s51	5 2	16 32	0 21	2 24	1 43	6 15	1 44	18 40	1 3	20 7	0 19	10 41	0 47	6 12	1 49	25 12	11 3	22 57	22 50	20 55	10 9	0 28			
F 24	15 34	8 0	4 45	17 20	0 32	2 52	1 43	6 11	1 41	18 39	1 3	20 7	0 20	10 41	0 47	6 12	1 49	25 11	11 3	22 58	22 50	20 54	10 7	0 29			
S 25	15 52	12 40	4 12	18 7	0 42	3 20	1 44	6 8	1 39	18 37	1 3	20 7	0 20	10 41	0 47	6 11	1 49	25 11	11 3	22 58	22 50	20 53	10 5	0 29			
S 26	16 9	16 39	3 27	18 51	0 52	3 47	1 44	6 4	1 36	18 36	1 3	20 7	0 20	10 41	0 47	6 11	1 49	25 11	11 3	22 59	22 50	20 53	10 3	0 29			
M27	16 26	19 46	2 32	19 34	1 2	4 15	1 44	6 0	1 34	18 34	1 3	20 7	0 20	10 41	0 47	6 10	1 49	25 11	11 2	23 0	22 51	20 52	10 1	0 30			
T 28	16 43	21 52	1 31	20 15	1 11	4 43	1 44	5 56	1 31	18 32	1 3	20 7	0 20	10 41	0 47	6 10	1 49	25 10	11 2	23 0	22 51	20 51	10 0	0 30			
W29	17 0	22 54	0 27	20 53	1 20	5 10	1 44	5 51	1 29	18 31	1 3	20 7	0 20	10 41	0 47	6 9	1 49	25 10	11 2	23 0	22 51	20 50	9 58	0 30			
T 30	17n16	22s50	0s38	21n29	1n29	5n38	1s44	5n46	1n26	18s29	1n 3	20s 7	0s20	10n41	0n47	6s 9	1n49	25n10	11n 2	23n 0	22n52	20s49	9s56	0n31			

ASTRODIENST EPHEMERIS for the year 1461

geocentric

MAY 1461 JC

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15 10 38	19°08'20"	0°26'26"	1°11'17"	19°07'38"	18°07'55"	26°04'42"	1°57'57"	4°08'18"	19°05'56"	20°02'21"	11°03'36"	13°02'22"	5°58'50"	26°05'52"	F 1
S 2	15 14 34	19°59'53"	12°15'15"	3°17'17"	20°50'50"	19°03'33"	26°06'35"	1°57'57"	4°08'18"	19°05'54"	20°02'22"	11°03'37"	12°59'59"	5°58'56"	26°06'48"	S 2
S 3	15 18 31	20°57'36"	24°07'24"	5°14'22"	22°02'22"	19°12'26"	26°07'27"	1°57'57"	4°08'18"	19°05'53"	20°02'22"	11°03'37"	12°56'56"	6°03'26"	26°06'44"	S 3
M 4	15 22 27	21°55'17"	6°08'35"	7°09'23"	23°14'14"	19°21'26"	26°08'20"	1°57'57"	4°08'18"	19°05'52"	20°02'22"	11°03'36"	12°53'53"	6°10'10"	26°06'41"	M 4
T 5	15 26 24	22°52'58"	18°16'46"	9°01'24"	24°26'26"	19°31'26"	26°09'12"	1°57'57"	4°08'18"	19°05'50"	20°02'23"	11°03'33"	12°50'50"	6°16'16"	26°06'37"	T 5
W 6	15 30 21	23°50'37"	0°07'44"	10°50'25"	25°39'39"	19°41'26"	26°10'04"	1°57'57"	4°08'18"	19°04'49"	20°02'23"	11°02'28"	12°46'46"	6°23'23"	26°06'33"	W 6
T 7	15 34 17	24°48'16"	13°31'31"	12°36'26"	26°51'51"	19°52'25"	25°57'57"	1°56'56"	4°08'18"	19°04'48"	20°02'23"	11°02'22"	12°43'43"	6°30'30"	26°06'29"	T 7
F 8	15 38 14	25°45'53"	26°40'40"	14°20'28"	28°03'03"	20°04'25"	25°49'49"	1°56'56"	4°08'18"	19°04'46"	20°02'24"	11°01'41"	12°40'40"	6°36'36"	26°06'26"	F 8
S 9	15 42 10	26°43'29"	10°08'11"	16°01'29"	29°16'16"	20°16'25"	25°41'41"	1°55'55"	4°09'19"	19°04'45"	20°02'24"	11°01'07"	12°37'37"	6°43'43"	26°06'22"	S 9
S 10	15 46 07	27°41'04"	24°01'17"	17°38'08"	30°28'28"	20°29'25"	25°34'34"	1°55'55"	4°09'19"	19°04'44"	20°02'25"	11°01'00"	12°34'34"	6°50'50"	26°06'19"	S 10
M 11	15 50 03	28°38'38"	8°08'11"	19°13'14"	31°40'40"	20°42'25"	25°26'26"	1°54'54"	4°09'19"	19°04'43"	20°02'25"	10°55'55"	12°30'30"	6°56'56"	26°06'15"	M 11
T 12	15 54 00	29°36'11"	22°25'20"	20°44'25"	32°53'53"	20°56'25"	25°18'18"	1°53'53"	4°09'20"	19°04'42"	20°02'26"	10°52'52"	12°27'27"	7°03'03"	26°06'12"	T 12
W 13	15 57 56	0°08'33'43"	6°06'50"	22°13'04"	33°55'55"	21°11'25"	25°11'11"	1°52'52"	4°09'20"	19°04'40"	20°02'26"	10°50'50"	12°24'24"	7°10'10"	26°06'09"	W 13
T 14	16 01 53	1°31'14"	21°15'23"	23°38'58"	34°51'51"	21°26'25"	25°03'03"	1°51'51"	4°09'21"	19°03'39"	20°02'27"	10°51'51"	12°21'21"	7°16'16"	26°06'05"	T 14
F 15	16 05 50	2°28'43"	5°02'39"	25°00'6"	35°30'30"	21°41'24"	24°56'56"	1°50'50"	4°09'21"	19°03'38"	20°02'28"	10°52'52"	12°18'18"	7°23'23"	26°06'02"	F 15
S 16	16 09 46	3°26'11"	19°56'26"	26°19'7"	36°42'42"	21°57'24"	24°48'48"	1°49'49"	4°09'22"	19°03'37"	20°02'28"	10°53'53"	12°15'15"	7°30'30"	25°59'59"	S 16
S 17	16 13 43	4°23'37"	4°08'5	27°34'8"	37°55'55"	22°14'24"	24°41'41"	1°48'48"	4°09'23"	19°03'36"	20°02'29"	10°54'54"	12°11'11"	7°36'36"	25°56'56"	S 17
M 18	16 17 39	5°21'02"	18°05'28"	28°46'10"	38°07'07"	22°31'24"	24°33'33"	1°46'46"	4°09'24"	19°03'35"	20°03'30"	10°53'53"	12°08'08"	7°43'43"	25°54'54"	M 18
T 19	16 21 36	6°18'26"	1°02'54"	29°55'11"	39°20'20"	22°49'24"	24°26'26"	1°45'45"	4°09'24"	19°03'34"	20°03'30"	10°51'51"	12°05'05"	7°50'50"	25°51'51"	T 19
W 20	16 25 32	7°15'49"	15°32'15"	30°00'12"	40°23'23"	23°07'24"	24°19'19"	1°43'43"	4°09'25"	19°03'33"	20°03'31"	10°47'47"	12°02'02"	7°56'56"	25°48'48"	W 20
T 21	16 29 29	8°13'10"	28°57'2°	13°45'23"	41°25'25"	23°25'24"	24°11'11"	1°42'42"	4°09'26"	19°03'32"	20°03'32"	10°43'43"	11°59'59"	8°03'03"	25°45'45"	T 21
F 22	16 33 25	9°10'31"	12°08'8"	3°00'14"	42°57'57"	23°44'24"	24°04'04"	1°40'40"	4°09'27"	19°03'31"	20°03'33"	10°38'38"	11°56'56"	8°10'10"	25°43'43"	F 22
S 23	16 37 22	10°07'50"	25°06'3°	3°55'16"	43°10'10"	24°03'23"	23°57'57"	1°38'38"	4°09'28"	19°03'30"	20°03'34"	10°33'33"	11°52'52"	8°16'16"	25°41'41"	S 23
S 24	16 41 19	11°05'09"	7°07'50"	4°46'17"	44°22'22"	24°23'23"	23°50'50"	1°36'36"	4°09'29"	19°02'29"	20°03'34"	10°29'29"	11°49'49"	8°23'23"	25°38'38"	S 24
M 25	16 45 15	12°02'27"	20°19'5°	5°33'18"	45°33'33"	24°43'24"	23°43'43"	1°34'34"	4°09'30"	19°02'28"	20°03'35"	10°26'26"	11°46'46"	8°30'30"	25°36'36"	M 25
T 26	16 49 12	12°59'45"	2°36'6"	6°16'19"	46°25'25"	25°04'23"	23°36'36"	1°32'32"	4°09'32"	19°02'28"	20°03'36"	10°24'24"	11°43'43"	8°36'36"	25°34'34"	T 26
W 27	16 53 08	13°57'01"	14°41'6"	6°55'21"	47°00'00"	25°25'23"	23°29'29"	1°30'30"	4°09'33"	19°02'27"	20°03'37"	10°24'24"	11°40'40"	8°43'43"	25°32'32"	W 27
T 28	16 57 05	14°54'18"	26°38'7"	7°30'22"	48°13'13"	25°46'23"	23°23'23"	1°27'27"	4°09'34"	19°02'26"	20°03'38"	10°25'25"	11°36'36"	8°50'50"	25°30'30"	T 28
F 29	17 01 01	15°51'33"	8°00'28"	8°00'23"	49°26'26"	26°08'23"	23°16'16"	1°25'25"	4°09'35"	19°02'25"	20°03'39"	10°27'27"	11°33'33"	8°56'56"	25°28'28"	F 29
S 30	17 04 58	16°48'49"	20°18'8"	8°27'24"	50°38'38"	26°30'23"	23°10'10"	1°23'23"	4°09'37"	19°02'25"	20°04'40"	10°28'28"	11°30'30"	9°03'03"	25°26'26"	S 30
S 31	17 08 54	17°46'04"	2°10'8"	8°49'25"	51°51'51"	26°53'26"	23°03'03"	1°20'20"	4°09'38"	19°02'24"	20°04'41"	10°30'30"	11°27'27"	9°10'10"	25°25'25"	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	17n32	21s44	1s40	22n 3	1n36	6n 5	1s44	5n41	1n24	18s27	1n 3	20s 7	0s20	10n41	0n47	6s 8	1n49	25n 9	11n 1	23n 0	22n52	20s48	9s54	0n31			
S 2	17 47	19 42	2 38	22 34	1 44	6 33	1 44	5 36	1 22	18 26	1 3	20 7	0 21	10 41	0 47	6 8	1 49	25 9	11 1	23 0	22 52	20 47	9 52	0 31			
S 3	18 3	16 48	3 29	23 3	1 50	7 0	1 44	5 30	1 19	18 24	1 3	20 7	0 21	10 41	0 47	6 7	1 49	25 9	11 1	23 0	22 53	20 46	9 51	0 32			
M 4	18 18	13 12	4 11	23 28	1 56	7 27	1 44	5 25	1 17	18 22	1 3	20 7	0 21	10 41	0 47	6 7	1 49	25 8	11 1	23 0	22 53	20 46	9 49	0 32			
T 5	18 33	9 0	4 43	23 52	2 1	7 54	1 43	5 19	1 15	18 21	1 3	20 7	0 21	10 41	0 47	6 6	1 49	25 8	11 0	23 0	22 53	20 45	9 47	0 32			
W 6	18 47	4 20	5 3	24 12	2 6	8 21	1 43	5 12	1 13	18 19	1 2	20 7	0 21	10 41	0 47	6 6	1 48	25 8	11 0	23 1	22 54	20 44	9 46	0 33			
T 7	19 1	0n37	5 8	24 31	2 9	8 48	1 42	5 6	1 10	18 17	1 2	20 8	0 21	10 41	0 47	6 5	1 48	25 7	11 0	23 1	22 54	20 43	9 44	0 33			
F 8	19 15	5 42	4 57	24 46	2 12	9 14	1 41	4 59	1 8	18 16	1 2	20 8	0 21	10 41	0 47	6 5	1 48	25 7	11 0	23 2	22 54	20 42	9 42	0 33			
S 9	19 29	10 38	4 30	25 0	2 14	9 40	1 41	4 53	1 6	18 14	1 2	20 8	0 21	10 41	0 47	6 5	1 48	25 7	10 59	23 3	22 55	20 41	9 41	0 34			
S 10	19 42	15 10	3 46	25 11	2 15	10 6	1 40	4 46	1 4	18 12	1 2	20 8	0 21	10 41	0 46	6 4	1 48	25 6	10 59	23 3	22 55	20 40	9 39	0 34			
M11	19 55	18 58	2 48	25 20	2 16	10 32	1 39	4 38	1 2	18 10	1 2	20 9	0 22	10 40	0 46	6 4	1 48	25 6	10 59	23 4	22 55	20 39	9 38	0 34			
T 12	20 7	21 39	1 38	25 26	2 16	10 58	1 38	4 31	1 0	18 9	1 2	20 9	0 22	10 40	0 46	6 3	1 48	25 5	10 59	23 4	22 55	20 38	9 36	0 35			
W13	20 20	22 58	0 22	25 31	2 14	11 24	1 37	4 23	0 58	18 7	1 2	20 9	0 22	10 40	0 46	6 3	1 48	25 5	10 58	23 4	22 56	20 37	9 35	0 35			
T 14	20 32	22 45	0n56	25 33	2 12	11 49	1 36	4 16	0 56	18 5	1 2	20 10	0 22	10 40	0 46	6 2	1 48	25 5	10 58	23 4	22 56	20 36	9 33	0 35			
F 15	20 43	21 2	2 11	25 34	2 10	12 14	1 35	4 8	0 54	18 4	1 1	20 10	0 22	10 39	0 46	6 2	1 48	25 4	10 58	23 4	22 56	20 35	9 32	0 36			
S 16	20 54	17 59	3 17	25 33	2 6	12 38	1 34	3 59	0 52	18 2	1 1	20 10	0 22	10 39	0 46	6 2	1 48	25 4	10 58	23 4	22 57	20 35	9 31	0 36			
S 17	21 5	13 55	4 10	25 31	2 2	13 3	1 33	3 51	0 50	18 0	1 1	20 11	0 22	10 39	0 46	6 1	1 48	25 3	10 57	23 4	22 57	20 34	9 29	0 36			
M18	21 15	9 8	4 48	25 26	1 56	13 27	1 31	3 42	0 48	17 59	1 1	20 11	0 22	10 39	0 46	6 1	1 48	25 3	10 57	23 4	22 57	20 33	9 28	0 36			
T 19	21 25	3 57	5 8	25 21	1 50	13 51	1 30	3 34	0 46	17 57	1 1	20 12	0 22	10 38	0 46	6 1	1 48	25 2	10 57	23 4	22 57	20 32	9 27	0 37			
W20	21 35	1s21	5 11	25 14	1 44	14 14	1 29	3 25	0 44	17 55	1 1	20 12	0 23	10 38	0 46	6 0	1 48	25 2	10 57	23 4	22 58	20 31	9 25	0 37			
T 21	21 44	6 31	4 56	25 6	1 36	14 37	1 27	3 16	0 42	17 54	1 1	20 13	0 23	10 38	0 46	6 0	1 48	25 1	10 56	23 5	22 58	20 30	9 24	0 37			
F 22	21 53	11 18	4 26	24 56	1 28	15 0	1 26	3 7	0 40	17 52	1 0	20 13	0 23	10 37	0 46	6 0	1 48	25 1	10 56	23 5	22 58	20 29	9 23	0 38			
S 23	22 2	15 29	3 43	24 46	1 19	15 23	1 24	2 57	0 38	17 50	1 0	20 14	0 23	10 37	0 46	5 59	1 48	25 0	10 56	23 5	22 59	20 28	9 22	0 38			
S 24	22 10	18 54	2 49	24 34	1 9	15 45	1 23	2 48	0 37	17 49	1 0	20 14	0 23	10 36	0 46	5 59	1 48	25 0	10 56	23 6	22 59	20 27	9 21	0 38			
M25	22 18	21 22	1 48	24 22	0 58	16 7	1 21	2 38	0 35	17 47	1 0	20 15	0 23	10 36	0 46	5 59	1 48	24 59	10 55	23 6	22 59	20 26	9 20	0 38			
T 26	22 25	22 46	0 43	24 8	0 47	16 28	1 19	2 28	0 33	17 46	1 0	20 15	0 23	10 35	0 46	5 59	1 48	24 59	10 55	23 6	22 59	20 25	9 19	0 39			
W27	22 32	23 5	0s24	23 54	0 35	16 49	1 17	2 18	0 31	17 44	1 0	20 16	0 23	10 35	0 46	5 58	1 48	24 58	10 55	23 6	23 0	20 24	9 18	0 39			
T 28	22 39	22 20	1 28	23 40	0 22	17 10	1 16	2 8	0 30	17 43	0 59	20 17	0 24	10 34	0 46	5 58	1 48	24 58	10 55	23 6	23 0	20 23	9 17	0 39			
F 29	22 45	20 35	2 28	23 25	0 9	17 30	1 14	1 58	0 26	17 41	0 59	20 17	0 24	10 34	0 46	5 58	1 48	24 57	10 55	23 6	23 0	20 22	9 16	0 40			
S 30	22 51	17 57	3 22	23 9	0s 5	17 49	1 12	1 48	0 28	17 40	0 59	20 18	0 24	10 33	0 46	5 58	1 48	24 57	10 54	23 6	23 1	20 21	9 15	0 40			
S 31	22n57	14s35	4s 8	22n53	0s19	18n 9	1s10	1n37	0n25	17s38	0n59	20s18	0s24	10n33	0n46	5s57	1n47	24n56	10n54	23n 6	23n 1	20s20	9s14	0n40			

ASTRODIENST EPHEMERIS for the year 1461

geocentric

JUNE 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	17 12 51	18II43'18	14X 8	9S 6	27B 4	27M 16	22°R57	1°R18	4M 40	19°R23	20Q42	10°R30	11S 24	9S 16	25°R23	M 1
T 2	17 16 48	19°40'33	26°19	9°19	28°16	27°39	22M 51	1S 15	4°41	19D 23	20°43	10S 30	11°21	9°23	25D 22	T 2
W 3	17 20 44	20°37'47	8Y 47	9°28	29°29	28° 3	22°45	1°12	4°43	19°22	20°44	10°29	11°17	9°30	25°21	W 3
T 4	17 24 41	21°35'01	21°34	9°R32	0II42	28°27	22°39	1° 9	4°45	19°21	20°46	10°28	11°14	9°36	25°19	T 4
F 5	17 28 37	22°32'14	4B 45	9°31	1°55	28°51	22°33	1° 6	4°46	19°21	20°47	10°25	11°11	9°43	25°18	F 5
S 6	17 32 34	23°29'28	18°21	9°26	3° 8	29°16	22°27	1° 3	4°48	19°20	20°48	10°23	11° 8	9°50	25°17	S 6
S 7	17 36 30	24°26'42	2II21	9°16	4°21	29°41	22°22	1° 0	4°50	19°20	20°49	10°21	11° 5	9°56	25°16	S 7
M 8	17 40 27	25°23'55	16°43	9° 3	5°33	0D 6	22°16	0°57	4°52	19°19	20°50	10°20	11° 2	10° 3	25°15	M 8
T 9	17 44 23	26°21'08	1S 21	8°45	6°46	0°32	22°11	0°54	4°53	19°19	20°52	10°19	10°58	10°10	25°15	T 9
W10	17 48 20	27°18'21	16° 8	8°23	7°59	0°58	22° 6	0°51	4°55	19°19	20°53	10°D19	10°55	10°16	25°14	W10
T 11	17 52 17	28°15'34	0Q 59	7°58	9°12	1°24	22° 1	0°47	4°57	19°18	20°54	10°19	10°52	10°23	25°14	T 11
F 12	17 56 13	29°12'46	15°45	7°29	10°25	1°51	21°56	0°44	4°59	19°18	20°56	10°20	10°49	10°30	25°13	F 12
S 13	18 0 10	0S 9'58	0M 20	6°58	11°38	2°18	21°52	0°41	5° 1	19°18	20°57	10°21	10°46	10°36	25°13	S 13
S 14	18 4 6	1° 7'09	14°41	6°25	12°51	2°45	21°47	0°37	5° 3	19°17	20°58	10°21	10°42	10°43	25°13	S 14
M15	18 8 3	2° 4'20	28°44	5°50	14° 4	3°12	21°43	0°34	5° 6	19°17	21° 0	10°R22	10°39	10°50	25°D13	M15
T 16	18 11 59	3° 1'30	12D 28	5°13	15°17	3°40	21°38	0°30	5° 8	19°17	21° 1	10°22	10°36	10°56	25°13	T 16
W17	18 15 56	3°58'41	25°54	4°37	16°30	4° 8	21°34	0°26	5°10	19°17	21° 2	10°21	10°33	11° 3	25°13	W17
T 18	18 19 52	4°55'50	9M 2	4° 0	17°43	4°36	21°31	0°22	5°12	19°17	21° 4	10°21	10°30	11°10	25°13	T 18
F 19	18 23 49	5°53'00	21°54	3°24	18°56	5° 5	21°27	0°19	5°14	19°16	21° 5	10°20	10°27	11°16	25°14	F 19
S 20	18 27 46	6°50'10	4X 31	2°49	20°10	5°34	21°23	0°15	5°17	19°16	21° 7	10°20	10°23	11°23	25°14	S 20
S 21	18 31 42	7°47'20	16°56	2°16	21°23	6° 3	21°20	0°11	5°19	19°16	21° 8	10°19	10°20	11°30	25°15	S 21
M22	18 35 39	8°44'29	29°10	1°46	22°36	6°32	21°17	0° 7	5°22	19°D16	21°10	10°19	10°17	11°36	25°15	M22
T 23	18 39 35	9°41'39	11S 15	1°19	23°49	7° 2	21°14	0° 3	5°24	19°16	21°11	10°D19	10°14	11°43	25°16	T 23
W24	18 43 32	10°38'49	23°12	0°56	25° 2	7°32	21°11	29S 59	5°27	19°16	21°13	10°R19	10°11	11°50	25°17	W24
T 25	18 47 28	11°36'00	5S 5	0°36	26°16	8° 2	21° 8	29°55	5°29	19°16	21°15	10°19	10° 8	11°56	25°18	T 25
F 26	18 51 25	12°33'10	16°54	0°21	27°29	8°32	21° 6	29°51	5°32	19°17	21°16	10°19	10° 4	12° 3	25°19	F 26
S 27	18 55 22	13°30'21	28°43	0°11	28°42	9° 3	21° 3	29°47	5°34	19°17	21°18	10°19	10° 1	12°10	25°21	S 27
S 28	18 59 18	14°27'33	10X 36	0° 5	29°55	9°34	21° 1	29°42	5°37	19°17	21°19	10°18	9°58	12°16	25°22	S 28
M29	19 3 15	15°24'45	22°35	0°D 5	1S 9	10° 5	20°59	29°38	5°40	19°17	21°21	10°18	9°55	12°23	25°23	M29
T 30	19 7 11	16S 21'58	4Y 45	0S 10	2S 22	10D 36	20M 57	29S 34	5M 42	19D 17	21Q 23	10S 17	9S 52	12S 30	25D 25	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n 2	10s36	4s43	22n37	0s34	18n28	1s 8	1n27	0n23	17s37	0n59	20s19	0s24	10n32	0n46	5s57	1n47	24n56	10n54	23n 5	23n 1	20s19	9s13	0n40			
T 2	23 6	6 9	5 6	22 21	0 50	18 46	1 6	1 16	0 21	17 36	0 58	20 20	0 24	10 32	0 46	5 57	1 47	24 55	10 54	23 5	23 1	20 18	9 12	0 41			
W 3	23 11	1 21	5 15	22 5	1 6	19 4	1 4	1 5	0 20	17 34	0 58	20 21	0 24	10 31	0 46	5 57	1 47	24 54	10 54	23 6	23 2	20 17	9 12	0 41			
T 4	23 14	3n39	5 10	21 48	1 22	19 21	1 2	0 54	0 18	17 33	0 58	20 21	0 24	10 30	0 45	5 57	1 47	24 54	10 53	23 6	23 2	20 15	9 11	0 41			
F 5	23 18	8 37	4 48	21 32	1 38	19 38	0 59	0 43	0 17	17 32	0 58	20 22	0 24	10 30	0 45	5 56	1 47	24 53	10 53	23 6	23 2	20 14	9 10	0 41			
S 6	23 21	13 21	4 9	21 16	1 54	19 54	0 57	0 32	0 15	17 31	0 58	20 23	0 25	10 29	0 45	5 56	1 47	24 53	10 53	23 6	23 2	20 13	9 10	0 42			
S 7	23 23	17 30	3 15	21 1	2 11	20 10	0 55	0 20	0 14	17 29	0 57	20 24	0 25	10 28	0 45	5 56	1 47	24 52	10 53	23 6	23 3	20 12	9 9	0 42			
M 8	23 26	20 44	2 7	20 45	2 27	20 26	0 53	0 9	0 12	17 28	0 57	20 24	0 25	10 28	0 45	5 56	1 47	24 52	10 53	23 6	23 3	20 11	9 9	0 42			
T 9	23 27	22 41	0 49	20 31	2 43	20 40	0 50	0s 3	0 11	17 27	0 57	20 25	0 25	10 27	0 45	5 56	1 47	24 51	10 52	23 6	23 3	20 10	9 8	0 43			
W10	23 29	23 4	0n32	20 16	2 59	20 55	0 48	0 15	0 9	17 26	0 57	20 26	0 25	10 26	0 45	5 56	1 47	24 50	10 52	23 6	23 3	20 9	9 8	0 43			
T 11	23 30	21 49	1 52	20 3	3 14	21 8	0 46	0 26	0 8	17 25	0 57	20 27	0 25	10 25	0 45	5 56	1 47	24 50	10 52	23 6	23 4	20 8	9 7	0 43			
F 12	23 30	19 5	3 4	19 50	3 28	21 21	0 44	0 38	0 6	17 24	0 56	20 28	0 25	10 25	0 45	5 56	1 47	24 49	10 52	23 6	23 4	20 7	9 7	0 43			
S 13	23 31	15 10	4 3	19 38	3 42	21 34	0 41	0 50	0 5	17 23	0 56	20 29	0 25	10 24	0 45	5 56	1 47	24 49	10 52	23 6	23 4	20 6	9 7	0 44			
S 14	23 30	10 27	4 46	19 27	3 54	21 46	0 39	1 2	0 4	17 22	0 56	20 29	0 25	10 23	0 45	5 56	1 47	24 48	10 51	23 6	23 5	20 5	9 6	0 44			
M15	23 30	5 15	5 11	19 17	4 6	21 57	0 36	1 15	0 2	17 21	0 56	20 30	0 26	10 22	0 45	5 55	1 47	24 47	10 51	23 6	23 5	20 4	9 6	0 44			
T 16	23 28	0s 4	5 17	19 9	4 16	22 8	0 34	1 27	0 1	17 20	0 55	20 31	0 26	10 21	0 45	5 55	1 47	24 47	10 51	23 6	23 5	20 2	9 6	0 44			
W17	23 27	5 17	5 6	19 1	4 25	22 18	0 31	1 39	0s 0	17 19	0 55	20 32	0 26	10 21	0 45	5 55	1 47	24 46	10 51	23 6	23 5	20 1	9 6	0 45			
T 18	23 25	10 9	4 38	18 55	4 32	22 28	0 29	1 52	0 2	17 18	0 55	20 33	0 26	10 20	0 45	5 55	1 47	24 45	10 51	23 6	23 6	20 0	9 6	0 45			
F 19	23 23	14 28	3 58	18 50	4 38	22 36	0 27	2 4	0 3	17 18	0 55	20 34	0 26	10 19	0 45	5 55	1 46	24 45	10 51	23 6	23 6	19 59	9 5	0 45			
S 20	23 20	18 4	3 6	18 46	4 43	22 45	0 24	2 17	0 4	17 17	0 55	20 35	0 26	10 18	0 45	5 55	1 46	24 44	10 50	23 6	23 6	19 58	9 5	0 45			
S 21	23 17	20 46	2 6	18 44	4 45	22 52	0 22	2 30	0 6	17 16	0 54	20 36	0 26	10 17	0 45	5 56	1 46	24 43	10 50	23 6	23 6	19 57	9 5	0 45			
M22	23 13	22 29	1 2	18 43	4 46	22 59	0 19	2 43	0 7	17 16	0 54	20 37	0 26	10 16	0 45	5 56	1 46	24 43	10 50	23 6	23 7	19 56	9 5	0 46			
T 23	23 9	23 7	0s 5	18 44	4 46	23 5	0 17	2 55	0 8	17 15	0 54	20 38	0 26	10 15	0 45	5 56	1 46	24 42	10 50	23 6	23 7	19 54	9 5	0 46			
W24	23 5	22 40	1 11	18 46	4 44	23 11	0 14	3 8	0 9	17 15	0 54	20 39	0 27	10 14	0 45	5 56	1 46	24 42	10 50	23 6	23 7	19 53	9 6	0 46			
T 25	23 0	21 12	2 13	18 50	4 41	23 16	0 12	3 21	0 11	17 14	0 53	20 40	0 27	10 13	0 45	5 56	1 46	24 41	10 50	23 6	23 7	19 52	9 6	0 46			
F 26	22 55	18 49	3 9	18 55	4 36	23 20	0 9	3 34	0 12	17 14	0 53	20 41	0 27	10 12	0 45	5 56	1 46	24 40	10 50	23 6	23 8	19 51	9 6	0 47			
S 27	22 49	15 40	3 58	19 1	4 30	23 24	0 7	3 48	0 13	17 13	0 53	20 42	0 27	10 11	0 45	5 56	1 46	24 40	10 50	23 6	23 8	19 50	9 6	0 47			
S 28	22 43	11 52	4 36	19 8	4 22	23 26	0 4	4 1	0 14	17 13	0 53	20 43	0 27	10 10	0 45	5 56	1 46	24 39	10 49	23 6	23 8	19 49	9 6	0 47			
M29	22 37	7 34	5 2	19 17	4 14	23 29	0 2	4 14	0 15	17 13	0 52	20 44	0 27	10 9	0 45	5 56	1 46	24 38	10 49	23 6	23 8	19 47	9 7	0 47			
T 30	22n30	2s56	5s16	19n26	4s 4	23n30	0n 1	4s27	0s16	17s13	0n52	20s45	0s27	10n 8	0n45	5s56	1n46	24n38	10n49	23n 7	23n 8	19s46	9s 7	0n48			

ASTRODIENST EPHEMERIS for the year 1461

geocentric

JULY 1461 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	19 11 8	17°19'11	17°11	0°21	3°36	11°11	20°R56	29°R30	5°45	19°18	21°24	10°D17	9°48	12°36	25°27	W 1
T 2	19 15 4	18°16'26	29°55	0°37	4°49	11°39	20°M54	29°Z25	5°48	19°18	21°26	10°E17	9°45	12°43	25°28	T 2
F 3	19 19 1	19°13'41	13°8	0°59	6°2	12°11	20°53	29°21	5°51	19°18	21°28	10°18	9°42	12°50	25°30	F 3
S 4	19 22 57	20°10'56	26°34	1°27	7°16	12°43	20°52	29°17	5°54	19°19	21°29	10°19	9°39	12°56	25°32	S 4
S 5	19 26 54	21°8'13	10°II33	2°0	8°29	13°15	20°51	29°12	5°57	19°19	21°31	10°19	9°36	13°3	25°34	S 5
M 6	19 30 51	22°5'31	24°57	2°39	9°43	13°48	20°50	29°8	6°0	19°20	21°33	10°20	9°33	13°10	25°37	M 6
T 7	19 34 47	23°2'49	9°E43	3°24	10°56	14°20	20°50	29°4	6°3	19°20	21°35	10°R20	9°29	13°16	25°39	T 7
W 8	19 38 44	24°0'08	24°44	4°14	12°10	14°53	20°49	28°59	6°6	19°21	21°36	10°20	9°26	13°23	25°41	W 8
T 9	19 42 40	24°57'28	9°L52	5°9	13°24	15°26	20°D49	28°55	6°9	19°21	21°38	10°19	9°23	13°30	25°44	T 9
F 10	19 46 37	25°54'48	24°58	6°10	14°37	16°0	20°49	28°50	6°12	19°22	21°40	10°18	9°20	13°36	25°46	F 10
S 11	19 50 33	26°52'09	9°M53	7°17	15°51	16°33	20°49	28°46	6°15	19°22	21°42	10°16	9°17	13°43	25°49	S 11
S 12	19 54 30	27°49'30	24°30	8°28	17°5	17°7	20°50	28°41	6°18	19°23	21°44	10°14	9°14	13°50	25°52	S 12
M13	19 58 26	28°46'52	8°L43	9°45	18°18	17°41	20°50	28°37	6°21	19°23	21°46	10°12	9°10	13°56	25°55	M13
T14	20 2 23	29°44'14	22°31	11°6	19°32	18°15	20°51	28°33	6°24	19°24	21°47	10°11	9°7	14°3	25°58	T14
W15	20 6 20	0°L41'37	5°M55	12°32	20°46	18°49	20°52	28°28	6°27	19°25	21°49	10°D11	9°4	14°10	26°1	W15
T16	20 10 16	1°39'01	18°55	14°3	21°59	19°23	20°53	28°24	6°31	19°26	21°51	10°12	9°1	14°16	26°4	T16
F17	20 14 13	2°36'25	1°L36	15°38	23°13	19°58	20°54	28°19	6°34	19°26	21°53	10°13	8°58	14°23	26°7	F17
S18	20 18 9	3°33'50	14°0	17°18	24°27	20°33	20°56	28°15	6°37	19°27	21°55	10°15	8°54	14°30	26°11	S18
S19	20 22 6	4°31'16	26°12	19°1	25°41	21°8	20°57	28°10	6°41	19°28	21°57	10°16	8°51	14°36	26°14	S19
M20	20 26 2	5°28'43	8°Z14	20°47	26°55	21°43	20°59	28°6	6°44	19°29	21°59	10°R17	8°48	14°43	26°18	M20
T21	20 29 59	6°26'10	22°9	22°37	28°9	22°18	21°1	28°2	6°47	19°30	22°1	10°16	8°45	14°50	26°22	T21
W22	20 33 55	7°23'39	2°0	24°30	29°23	22°54	21°4	27°57	6°51	19°31	22°2	10°15	8°42	14°56	26°25	W22
T23	20 37 52	8°21'09	13°50	26°25	0°L36	23°29	21°6	27°53	6°54	19°32	22°4	10°12	8°39	15°3	26°29	T23
F24	20 41 49	9°18'39	25°39	28°22	1°50	24°5	21°8	27°49	6°57	19°33	22°6	10°7	8°35	15°10	26°33	F24
S25	20 45 45	10°16'11	7°K31	0°L21	3°4	24°41	21°11	27°44	7°1	19°34	22°8	10°2	8°32	15°16	26°37	S25
S26	20 49 42	11°13'45	19°28	2°22	4°18	25°17	21°14	27°40	7°4	19°35	22°10	9°57	8°29	15°23	26°41	S26
M27	20 53 38	12°11'19	1°Y31	4°23	5°32	25°53	21°17	27°36	7°8	19°36	22°12	9°52	8°26	15°30	26°46	M27
T28	20 57 35	13°8'55	13°44	6°25	6°46	26°29	21°20	27°32	7°11	19°37	22°14	9°48	8°23	15°36	26°50	T28
W29	21 1 31	14°6'33	26°10	8°27	8°1	27°6	21°24	27°27	7°15	19°38	22°16	9°45	8°20	15°43	26°54	W29
T30	21 5 28	15°4'12	8°S1	10°30	9°15	27°43	21°27	27°23	7°18	19°39	22°18	9°43	8°16	15°50	26°59	T30
F31	21 9 24	16°L1'52	21°L53	12°L32	10°L29	28°L19	21°M31	27°Z19	7°M22	19°L41	22°L20	9°D43	8°E13	15°L56	27°L3	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	22n23	1n55	5s15	19n37	3s54	23n31	0n3	4s41	0s18	17s12	0n52	20s46	0s27	10n7	0n45	5s57
T 2	22 15	6 48	4 59	19 48	3 42	23 31	0 6	4 54	0 19	17 12	0 52	20 47	0 27	10 6	0 45	5 57
F 3	22 8	11 33	4 27	20 0	3 30	23 30	0 8	5 8	0 20	17 12	0 51	20 48	0 27	10 5	0 45	5 57
S 4	21 59	15 53	3 40	20 13	3 17	23 29	0 11	5 21	0 21	17 12	0 51	20 49	0 28	10 4	0 44	5 57
S 5	21 51	19 29	2 38	20 26	3 4	23 27	0 13	5 35	0 22	17 12	0 51	20 50	0 28	10 3	0 44	5 57
M 6	21 41	22 0	1 24	20 39	2 50	23 25	0 16	5 49	0 23	17 12	0 51	20 51	0 28	10 2	0 44	5 57
T 7	21 32	23 6	0 3	20 52	2 36	23 21	0 18	6 2	0 24	17 12	0 50	20 52	0 28	10 1	0 44	5 58
W 8	21 22	22 32	1n19	21 5	2 22	23 17	0 20	6 16	0 25	17 12	0 50	20 53	0 28	9 59	0 44	5 58
T 9	21 12	20 20	2 36	21 18	2 7	23 13	0 23	6 30	0 26	17 13	0 50	20 54	0 28	9 58	0 44	5 58
F 10	21 2	16 44	3 43	21 30	1 52	23 7	0 25	6 44	0 27	17 13	0 50	20 55	0 28	9 57	0 44	5 58
S 11	20 51	12 5	4 33	21 41	1 38	23 1	0 27	6 58	0 28	17 13	0 49	20 56	0 28	9 56	0 44	5 59
S 12	20 39	6 51	5 4	21 52	1 23	22 54	0 30	7 11	0 29	17 13	0 49	20 57	0 28	9 55	0 44	5 59
M13	20 28	1 22	5 16	22 1	1 8	22 47	0 32	7 25	0 30	17 14	0 49	20 58	0 28	9 54	0 44	5 59
T14	20 16	4s1	5 9	22 9	0 54	22 39	0 34	7 39	0 31	17 14	0 49	20 59	0 28	9 52	0 44	6 0
W15	20 4	9 3	4 45	22 15	0 40	22 30	0 36	7 53	0 32	17 15	0 48	21 0	0 29	9 51	0 44	6 0
T16	19 51	13 33	4 7	22 20	0 26	22 20	0 38	8 7	0 33	17 15	0 48	21 1	0 29	9 50	0 44	6 0
F17	19 38	17 19	3 17	22 23	0 12	22 10	0 40	8 21	0 34	17 16	0 48	21 2	0 29	9 49	0 44	6 1
S18	19 25	20 14	2 20	22 24	0n0	21 59	0 43	8 35	0 35	17 16	0 48	21 3	0 29	9 47	0 44	6 1
S19	19 11	22 10	1 17	22 22	0 13	21 48	0 45	8 49	0 36	17 17	0 47	21 3	0 29	9 46	0 44	6 1
M20	18 57	23 4	0 11	22 18	0 25	21 36	0 47	9 3	0 37	17 18	0 47	21 4	0 29	9 45	0 44	6 2
T21	18 43	22 53	0s54	22 11	0 36	21 23	0 49	9 17	0 38	17 19	0 47	21 5	0 29	9 44	0 44	6 2
W22	18 29	21 40	1 57	22 2	0 46	21 10	0 51	9 31	0 39	17 19	0 47	21 6	0 29	9 42	0 44	6 3
T23	18 14	19 30	2 54	21 50	0 56	20 56	0 52	9 45	0 39	17 20	0 47	21 7	0 29	9 41	0 44	6 3
F24	17 59	16 30	3 43	21 36	1 4	20 41	0 54	9 59	0 40	17 21	0 46	21 8	0 29	9 40	0 44	6 3
S25	17 43	12 51	4 24	21 18	1 12	20 26	0 56	10 14	0 41	17 22	0 46	21 9	0 29	9 39	0 44	6 4
S26	17 27	8 40	4 52	20 59	1 19	20 10	0 58	10 28	0 42	17 23	0 46	21 10	0 29	9 37	0 44	6 4
M27	17 11	4 7	5 9	20 36	1 25	19 54	1 0	10 42	0 43	17 24	0 46	21 11	0 29	9 36	0 44	6 5
T28	16 55	0n39	5 11	20 11	1 31	19 37	1 1	10 56	0 44	17 25	0 45	21 12	0 30	9 35	0 44	6 5
W29	16 39	5 29	4 59	19 44	1 35	19 20	1 3	11 10	0 44	17 26	0 45	21 13	0 30	9 33	0 44	6 6
T30	16 22	10 11	4 33	19 15	1 39	19 2	1 4	11 24	0 45	17 27	0 45	21 14	0 30	9 32	0 44	6 6
F31	16n5	14n34	3s52	18n43	1n42	18n43	1n6	11s38	0s46	17s29	0n45	21s15	0s30	9n31	0n44	6s7

Julian Day Number = 2254869.5, Delta T = 06m08s

Ecliptic obliquity = 23°30'31", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'39", Lahiri = 16°20'39" Julian Calendar 1 July 1461 == Greg. Calendar 10 July 1461

ASTRODIENST EPHEMERIS for the year 1461
geocentric

AUGUST 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 13 21	16♌59°35	5♊18	14♌34	11♌43	28♌56	21♌35	27°R15	7♎26	19♌42	22♌22	9♎44	8♎10	16♌3	27♌8	S 1
S 2	21 17 18	17°57'19	19° 7	16°35	12°57	29°34	21°39	27♌11	7°29	19°43	22°24	9°46	8° 7	16°10	27°13	S 2
M 3	21 21 14	18°55'05	3♎23	18°36	14°11	0♌11	21°43	27° 7	7°33	19°44	22°26	9°R47	8° 4	16°16	27°18	M 3
T 4	21 25 11	19°52'52	18° 3	20°35	15°26	0°48	21°48	27° 3	7°36	19°46	22°28	9°46	8° 0	16°23	27°23	T 4
W 5	21 29 7	20°50'41	3♌3	22°34	16°40	1°26	21°52	26°59	7°40	19°47	22°30	9°45	7°57	16°30	27°28	W 5
T 6	21 33 4	21°48'32	18°15	24°31	17°54	2° 3	21°57	26°55	7°44	19°48	22°32	9°41	7°54	16°36	27°33	T 6
F 7	21 37 0	22°46'24	3♎30	26°28	19° 8	2°41	22° 2	26°52	7°47	19°50	22°34	9°36	7°51	16°43	27°38	F 7
S 8	21 40 57	23°44'17	18°36	28°23	20°23	3°19	22° 7	26°48	7°51	19°51	22°36	9°29	7°48	16°50	27°43	S 8
S 9	21 44 53	24°42'12	3♌26	0♎17	21°37	3°57	22°12	26°44	7°55	19°53	22°38	9°22	7°45	16°56	27°49	S 9
M10	21 48 50	25°40'08	17°51	2° 9	22°51	4°36	22°18	26°41	7°58	19°54	22°40	9°17	7°41	17° 3	27°54	M10
T 11	21 52 47	26°38'06	1♌47	4° 1	24° 6	5°14	22°23	26°37	8° 2	19°55	22°42	9°12	7°38	17°10	27°59	T 11
W12	21 56 43	27°36'05	15°15	5°51	25°20	5°53	22°29	26°34	8° 6	19°57	22°44	9° 9	7°35	17°16	28° 5	W12
T 13	22 0 40	28°34'05	28°15	7°40	26°34	6°31	22°35	26°30	8°10	19°59	22°45	9°D 9	7°32	17°23	28°11	T 13
F 14	22 4 36	29°32'07	10♌53	9°27	27°49	7°10	22°41	26°27	8°13	20° 0	22°47	9° 9	7°29	17°30	28°16	F 14
S 15	22 8 33	0♎30'10	23°12	11°13	29° 3	7°49	22°47	26°24	8°17	20° 2	22°49	9°10	7°26	17°36	28°22	S 15
S 16	22 12 29	1°28'14	5♌16	12°58	0♎18	8°28	22°53	26°20	8°21	20° 3	22°51	9°R11	7°22	17°43	28°28	S 16
M17	22 16 26	2°26'20	17°12	14°42	1°32	9° 7	23° 0	26°17	8°25	20° 5	22°53	9°11	7°19	17°50	28°34	M17
T 18	22 20 22	3°24'28	29° 2	16°24	2°47	9°46	23° 6	26°14	8°28	20° 7	22°55	9° 9	7°16	17°57	28°40	T 18
W19	22 24 19	4°22'37	10♌51	18° 6	4° 1	10°26	23°13	26°11	8°32	20° 8	22°57	9° 4	7°13	18° 3	28°46	W19
T 20	22 28 16	5°20'47	22°40	19°46	5°16	11° 5	23°20	26° 8	8°36	20°10	22°59	8°57	7°10	18°10	28°52	T 20
F 21	22 32 12	6°19'00	4♎33	21°25	6°30	11°45	23°27	26° 5	8°40	20°12	23° 1	8°48	7° 6	18°17	28°58	F 21
S 22	22 36 9	7°17'14	16°32	23° 2	7°45	12°25	23°34	26° 2	8°43	20°13	23° 3	8°38	7° 3	18°23	29° 5	S 22
S 23	22 40 5	8°15'30	28°36	24°39	8°59	13° 4	23°41	26° 0	8°47	20°15	23° 5	8°27	7° 0	18°30	29°11	S 23
M24	22 44 2	9°13'48	10♌49	26°14	10°14	13°44	23°49	25°57	8°51	20°17	23° 7	8°16	6°57	18°37	29°17	M24
T 25	22 47 58	10°12'08	23°10	27°49	11°29	14°25	23°56	25°55	8°55	20°19	23° 9	8° 6	6°54	18°43	29°24	T 25
W26	22 51 55	11°10'29	5♌43	29°22	12°43	15° 5	24° 4	25°52	8°58	20°21	23°11	7°59	6°51	18°50	29°30	W26
T 27	22 55 51	12° 8'54	18°28	0♌54	13°58	15°45	24°12	25°50	9° 2	20°22	23°13	7°54	6°47	18°57	29°37	T 27
F 28	22 59 48	13° 7'20	1♊29	2°25	15°12	16°25	24°20	25°47	9° 6	20°24	23°14	7°51	6°44	19° 3	29°44	F 28
S 29	23 3 44	14° 5'48	14°48	3°55	16°27	17° 6	24°28	25°45	9°10	20°26	23°16	7°D51	6°41	19°10	29°50	S 29
S 30	23 7 41	15° 4'19	28°28	5°23	17°42	17°47	24°36	25°43	9°14	20°28	23°18	7°51	6°38	19°17	29°57	S 30
M31	23 11 38	16♎2°52	12♎31	6♌51	18♎56	18♎27	24♎44	25♌41	9♎17	20♌30	23♌20	7°R51	6♎35	19♌23	0♌4	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	15n47	18n21	2s57	18n10	1n44	18n24	1n 7	11s52	0s47	17s30	0n44	21s15	0s30	9n29	0n44	6s 7
S 2	15 30	21 14	1 50	17 35	1 45	18 4	1 9	12 5	0 48	17 31	0 44	21 16	0 30	9 28	0 44	6 8
M 3	15 12	22 53	0 35	16 59	1 46	17 44	1 10	12 19	0 48	17 32	0 44	21 17	0 30	9 27	0 44	6 8
T 4	14 54	23 2	0n45	16 21	1 46	17 24	1 11	12 33	0 49	17 34	0 44	21 18	0 30	9 25	0 44	6 9
W 5	14 35	21 32	2 3	15 42	1 45	17 2	1 13	12 47	0 50	17 35	0 43	21 19	0 30	9 24	0 44	6 9
T 6	14 17	18 28	3 13	15 1	1 44	16 41	1 14	13 1	0 51	17 37	0 43	21 20	0 30	9 22	0 44	6 10
F 7	13 58	14 8	4 10	14 20	1 42	16 19	1 15	13 15	0 51	17 38	0 43	21 20	0 30	9 21	0 44	6 10
S 8	13 39	8 56	4 49	13 38	1 40	15 56	1 16	13 28	0 52	17 40	0 43	21 21	0 30	9 20	0 44	6 11
S 9	13 20	3 20	5 7	12 55	1 37	15 33	1 17	13 42	0 53	17 41	0 43	21 22	0 30	9 18	0 44	6 12
M10	13 0	2s19	5 5	12 11	1 33	15 10	1 18	13 56	0 53	17 43	0 42	21 23	0 30	9 17	0 44	6 12
T 11	12 40	7 40	4 45	11 27	1 30	14 46	1 19	14 9	0 54	17 44	0 42	21 23	0 30	9 15	0 44	6 13
W12	12 20	12 28	4 10	10 43	1 25	14 22	1 20	14 23	0 55	17 46	0 42	21 24	0 31	9 14	0 44	6 13
T 13	12 0	16 32	3 23	9 58	1 21	13 57	1 20	14 36	0 56	17 48	0 42	21 25	0 31	9 13	0 44	6 14
F 14	11 40	19 43	2 27	9 13	1 16	13 32	1 21	14 50	0 56	17 50	0 42	21 26	0 31	9 11	0 44	6 15
S 15	11 20	21 55	1 25	8 28	1 11	13 7	1 22	15 3	0 57	17 51	0 41	21 26	0 31	9 10	0 44	6 15
S 16	10 59	23 3	0 21	7 43	1 5	12 41	1 22	15 16	0 57	17 53	0 41	21 27	0 31	9 8	0 44	6 16
M17	10 38	23 7	0s43	6 57	0 59	12 15	1 23	15 30	0 58	17 55	0 41	21 28	0 31	9 7	0 44	6 17
T 18	10 17	22 7	1 45	6 12	0 53	11 49	1 23	15 43	0 59	17 57	0 41	21 28	0 31	9 6	0 44	6 17
W19	9 56	20 9	2 41	5 26	0 47	11 22	1 24	15 56	0 59	17 59	0 40	21 29	0 31	9 4	0 44	6 18
T 20	9 35	17 19	3 31	4 41	0 40	10 55	1 24	16 9	1 0	18 1	0 40	21 29	0 31	9 3	0 44	6 19
F 21	9 13	13 46	4 12	3 55	0 33	10 27	1 24	16 22	1 1	18 3	0 40	21 30	0 31	9 1	0 44	6 19
S 22	8 52	9 39	4 42	3 10	0 26	10 0	1 25	16 35	1 1	18 5	0 40	21 31	0 31	9 0	0 44	6 20
S 23	8 30	5 8	4 59	2 26	0 19	9 32	1 25	16 47	1 2	18 7	0 40	21 31	0 31	8 59	0 44	6 21
M24	8 8	0 22	5 3	1 41	0 12	9 4	1 25	17 0	1 2	18 9	0 39	21 32	0 31	8 57	0 44	6 21
T 25	7 46	4n29	4 53	0 57	0 5	8 35	1 25	17 13	1 3	18 11	0 39	21 32	0 31	8 56	0 44	6 22
W26	7 24	9 14	4 29	0 13	0s 3	8 6	1 25	17 25	1 3	18 13	0 39	21 33	0 31	8 54	0 44	6 23
T 27	7 1	13 40	3 51	0s31	0 10	7 38	1 25	17 37	1 4	18 15	0 39	21 33	0 31	8 53	0 44	6 23
F 28	6 39	17 34	3 1	1 14	0 18	7 8	1 24	17 50	1 4	18 17	0 39	21 34	0 31	8 51	0 44	6 24
S 29	6 16	20 40	1 59	1 57	0 26	6 39	1 24	18 2	1 5	18 19	0 38	21 34	0 31	8 50	0 44	6 25
S 30	5 54	22 40	0 50	2 40	0 34	6 10	1 24	18 14	1 6	18 21	0 38	21 35	0 31	8 49	0 44	6 26
M31	5n31	23n20	0n25	3s22	0s41	5n40	1n23	18s26	1s 6	18s24	0n38	21s35	0s31	8n47	0n44	6s26

Julian Day Number = 2254900.5, Delta T = 06m08s

Ecliptic obliquity = 23°30'32", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'43", Lahiri = 16°20'43" Julian Calendar 1 Aug. 1461 == Greg. Calendar 10 Aug. 1461

ASTRODIENST EPHEMERIS for the year 1461

geocentric

SEPTEMBER 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 15 34	17 ¹⁷ 1'27	26 ⁵⁶ 56	8 ¹⁷ 17	20 ¹¹ 11	19 ¹⁸ 8	24 ¹⁸ 53	25°R39	9 ¹⁷ 21	20 ¹⁸ 32	23 ¹⁸ 22	7°R50	6 ⁵⁶ 31	19 ¹⁸ 30	0 ¹⁸ 11	T 1
W 2	23 19 31	18° 0'05	11 ¹⁸ 42	9°43	21°26	19°49	25° 1	25 ³⁷ 37	9°25	20°34	23°24	7 ⁵⁶ 46	6°28	19°37	0°18	W 2
T 3	23 23 27	18°58'44	26°42	11° 7	22°41	20°30	25°10	25°35	9°29	20°36	23°26	7°40	6°25	19°43	0°25	T 3
F 4	23 27 24	19°57'26	11 ¹⁷ 49	12°30	23°55	21°12	25°19	25°34	9°32	20°38	23°27	7°31	6°22	19°50	0°32	F 4
S 5	23 31 20	20°56'09	26°53	13°51	25°10	21°53	25°28	25°32	9°36	20°40	23°29	7°21	6°19	19°57	0°39	S 5
S 6	23 35 17	21°54'55	11 ¹⁸ 44	15°12	26°25	22°34	25°37	25°31	9°40	20°42	23°31	7°10	6°16	20° 3	0°46	S 6
M 7	23 39 13	22°53'42	26°13	16°31	27°40	23°16	25°46	25°29	9°43	20°44	23°33	7° 0	6°12	20°10	0°53	M 7
T 8	23 43 10	23°52'32	10 ¹⁸ 15	17°48	28°54	23°57	25°55	25°28	9°47	20°46	23°34	6°52	6° 9	20°17	1° 0	T 8
W 9	23 47 7	24°51'23	23°48	19° 5	0 ¹⁸ 9	24°39	26° 5	25°27	9°51	20°48	23°36	6°46	6° 6	20°23	1° 7	W 9
T 10	23 51 3	25°50'16	6 ¹⁷ 53	20°20	1°24	25°21	26°14	25°26	9°54	20°50	23°38	6°42	6° 3	20°30	1°15	T 10
F 11	23 55 0	26°49'11	19°32	21°33	2°39	26° 3	26°24	25°24	9°58	20°52	23°40	6°41	6° 0	20°37	1°22	F 11
S 12	23 58 56	27°48'07	1 ¹⁸ 51	22°44	3°54	26°45	26°33	25°24	10° 2	20°54	23°41	6°41	5°57	20°44	1°30	S 12
S 13	0 2 53	28°47'06	13°55	23°54	5° 9	27°27	26°43	25°23	10° 5	20°56	23°43	6°41	5°53	20°50	1°37	S 13
M14	0 6 49	29°46'06	25°49	25° 2	6°23	28° 9	26°53	25°22	10° 9	20°58	23°45	6°40	5°50	20°57	1°45	M14
T 15	0 10 46	0 ¹⁸ 45'08	7 ¹⁸ 38	26° 8	7°38	28°52	27° 3	25°21	10°13	21° 0	23°46	6°37	5°47	21° 4	1°52	T 15
W16	0 14 42	1°44'11	19°27	27°11	8°53	29°34	27°13	25°21	10°16	21° 3	23°48	6°31	5°44	21°10	2° 0	W16
T 17	0 18 39	2°43'17	1 ¹⁸ 19	28°13	10° 8	0 ¹⁷ 17	27°24	25°20	10°20	21° 5	23°50	6°22	5°41	21°17	2° 7	T 17
F 18	0 22 36	3°42'24	13°18	29°11	11°23	0°59	27°34	25°20	10°23	21° 7	23°51	6°10	5°37	21°24	2°15	F 18
S 19	0 26 32	4°41'34	25°25	0 ¹⁸ 7	12°38	1°42	27°44	25°20	10°27	21° 9	23°53	5°57	5°34	21°30	2°23	S 19
S 20	0 30 29	5°40'45	7 ¹⁷ 41	1° 0	13°52	2°25	27°55	25°20	10°30	21°11	23°54	5°43	5°31	21°37	2°30	S 20
M21	0 34 25	6°39'59	20° 8	1°50	15° 7	3° 7	28° 5	25°D20	10°34	21°13	23°56	5°29	5°28	21°44	2°38	M21
T 22	0 38 22	7°39'15	2 ¹⁸ 44	2°36	16°22	3°50	28°16	25°20	10°37	21°16	23°57	5°17	5°25	21°50	2°46	T 22
W23	0 42 18	8°38'33	15°32	3°18	17°37	4°33	28°27	25°20	10°41	21°18	23°59	5° 7	5°22	21°57	2°54	W23
T 24	0 46 15	9°37'53	28°30	3°56	18°52	5°17	28°38	25°20	10°44	21°20	24° 0	5° 1	5°18	22° 4	3° 1	T 24
F 25	0 50 11	10°37'15	11 ¹⁸ 40	4°29	20° 7	6° 0	28°49	25°20	10°48	21°22	24° 2	4°57	5°15	22°10	3° 9	F 25
S 26	0 54 8	11°36'40	25° 4	4°57	21°22	6°43	29° 0	25°21	10°51	21°24	24° 3	4°55	5°12	22°17	3°17	S 26
S 27	0 58 5	12°36'08	8 ¹⁸ 42	5°19	22°37	7°26	29°11	25°22	10°54	21°27	24° 5	4°55	5° 9	22°24	3°25	S 27
M28	1 2 1	13°35'37	22°36	5°35	23°51	8°10	29°22	25°22	10°58	21°29	24° 6	4°55	5° 6	22°31	3°33	M28
T 29	1 5 58	14°35'10	6 ¹⁸ 46	5°44	25° 6	8°53	29°33	25°23	11° 1	21°31	24° 8	4°54	5° 3	22°37	3°41	T 29
W30	1 9 54	15°34'44	21 ¹⁸ 12	5°R47	26°12	9°17	29°45	25 ³⁷ 24	11 ¹⁷ 4	21°18	24° 9	4°50	4°59	22°44	3°49	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	5n 8	22n28	1n40	4s 3	0s49	5n10	1n23	18s37	1s 7	18s26	0n38	21s35	0s31	8n46	0n44	T 1
W 2	4 45	20 2	2 49	4 44	0 57	4 40	1 22	18 49	1 7	18 28	0 38	21 36	0 32	8 44	0 44	W 2
T 3	4 22	16 14	3 49	5 24	1 5	4 10	1 22	19 1	1 8	18 30	0 38	21 36	0 32	8 43	0 44	T 3
F 4	3 59	11 20	4 32	6 4	1 13	3 40	1 21	19 12	1 8	18 33	0 37	21 37	0 32	8 42	0 44	F 4
S 5	3 36	5 46	4 57	6 43	1 21	3 9	1 21	19 23	1 8	18 35	0 37	21 37	0 32	8 40	0 44	S 5
S 6	3 13	0s 2	5 1	7 22	1 28	2 39	1 20	19 35	1 9	18 37	0 37	21 37	0 32	8 39	0 44	S 6
M 7	2 50	5 43	4 45	7 59	1 36	2 8	1 19	19 46	1 9	18 40	0 37	21 37	0 32	8 37	0 44	M 7
T 8	2 26	10 56	4 12	8 36	1 44	1 38	1 18	19 57	1 10	18 42	0 37	21 38	0 32	8 36	0 44	T 8
W 9	2 3	15 27	3 26	9 12	1 51	1 7	1 17	20 7	1 10	18 44	0 36	21 38	0 32	8 35	0 44	W 9
T 10	1 40	19 2	2 31	9 48	1 59	0 36	1 16	20 18	1 11	18 47	0 36	21 38	0 32	8 33	0 44	T 10
F 11	1 16	21 36	1 30	10 22	2 6	0 5	1 15	20 28	1 11	18 49	0 36	21 38	0 32	8 32	0 44	F 11
S 12	0 53	23 4	0 26	10 56	2 13	0s25	1 14	20 39	1 11	18 52	0 36	21 39	0 32	8 30	0 44	S 12
S 13	0 29	23 25	0s38	11 28	2 20	0 56	1 13	20 49	1 12	18 54	0 36	21 39	0 32	8 29	0 44	S 13
M14	0 6	22 40	1 39	12 0	2 27	1 27	1 12	20 59	1 12	18 57	0 36	21 39	0 32	8 28	0 44	M14
T 15	0s18	20 56	2 36	12 30	2 33	1 58	1 10	21 9	1 13	18 59	0 35	21 39	0 32	8 26	0 44	T 15
W16	0 42	18 17	3 25	12 59	2 40	2 29	1 9	21 18	1 13	19 1	0 35	21 39	0 32	8 25	0 44	W16
T 17	1 5	14 52	4 6	13 27	2 46	2 59	1 7	21 28	1 13	19 4	0 35	21 39	0 32	8 24	0 44	T 17
F 18	1 29	10 50	4 37	13 53	2 51	3 30	1 6	21 37	1 14	19 6	0 35	21 40	0 32	8 22	0 44	F 18
S 19	1 52	6 20	4 55	14 18	2 57	4 1	1 4	21 46	1 14	19 9	0 35	21 40	0 32	8 21	0 44	S 19
S 20	2 16	1 32	4 59	14 42	3 2	4 31	1 3	21 55	1 14	19 11	0 35	21 40	0 32	8 20	0 44	S 20
M21	2 39	3n25	4 50	15 3	3 6	5 2	1 1	22 4	1 15	19 14	0 34	21 40	0 32	8 18	0 44	M21
T 22	3 3	8 17	4 27	15 23	3 10	5 32	1 0	22 12	1 15	19 17	0 34	21 40	0 32	8 17	0 44	T 22
W23	3 26	12 53	3 49	15 41	3 14	6 3	0 58	22 21	1 15	19 19	0 34	21 40	0 32	8 16	0 44	W23
T 24	3 50	16 58	3 0	15 57	3 17	6 33	0 56	22 29	1 16	19 22	0 34	21 40	0 32	8 15	0 44	T 24
F 25	4 13	20 17	2 0	16 10	3 19	7 3	0 54	22 37	1 16	19 24	0 34	21 40	0 32	8 13	0 44	F 25
S 26	4 36	22 33	0 52	16 21	3 20	7 33	0 52	22 45	1 16	19 27	0 34	21 40	0 32	8 12	0 44	S 26
S 27	5 0	23 33	0n20	16 29	3 20	8 2	0 51	22 52	1 16	19 29	0 33	21 39	0 32	8 11	0 44	S 27
M28	5 23	7 1	1 32	16 34	3 20	8 32	0 49	23 0	1 17	19 32	0 33	21 39	0 32	8 9	0 44	M28
T 29	5 46	21 13	2 40	16 35	3 18	9 1	0 47	23 7	1 17	19 34	0 33	21 39	0 32	8 8	0 44	T 29
W30	6s 9	17n55	3n39	16s33	3s15	9s30	0n45	23s14	1s17	19s37	0n33	21s39	0s32	8n 7	0n44	W30

Julian Day Number = 2254931.5, Delta T = 06m08s

Ecliptic obliquity = 23°30'33", Nutation = - 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'47", Lahiri = 16°20'48" Julian Calendar 1 Sept. 1461 == Greg. Calendar 10 Sept. 1461

ASTRODIENST EPHEMERIS for the year 1461
geocentric

OCTOBER 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 13 51	16 ⁵ 34'20	5 ¹¹ 51	5°R41	27 ⁵ 36	10 ² 21	29 ¹ 56	25 ³ 25	11 ¹ 8	21 ¹ 35	24 ⁰ 10	4°R44	4 ⁵ 56	22 ² 51	3 ¹ 57	T 1
F 2	1 17 47	17°33'59	20°36	5 ¹¹ 28	28°51	11° 4	0 ² 8	25°26	11°11	21°38	24°12	4 ⁵ 34	4°53	22°57	4° 5	F 2
S 3	1 21 44	18°33'40	5 ¹¹ 21	5° 6	0 ¹ 6	11°48	0°19	25°27	11°14	21°40	24°13	4°24	4°50	23° 4	4°13	S 3
S 4	1 25 40	19°33'23	19°57	4°35	1°21	12°32	0°31	25°28	11°17	21°42	24°14	4°12	4°47	23°11	4°21	S 4
M 5	1 29 37	20°33'09	4 ¹¹ 17	3°55	2°36	13°16	0°43	25°30	11°20	21°44	24°15	4° 1	4°43	23°17	4°29	M 5
T 6	1 33 33	21°32'56	18°15	3° 7	3°51	14° 0	0°55	25°31	11°23	21°47	24°17	3°52	4°40	23°24	4°38	T 6
W 7	1 37 30	22°32'45	1 ¹ 47	2°10	5° 6	14°45	1° 7	25°33	11°26	21°49	24°18	3°46	4°37	23°31	4°46	W 7
T 8	1 41 27	23°32'36	14°53	1° 6	6°21	15°29	1°18	25°34	11°30	21°51	24°19	3°42	4°34	23°37	4°54	T 8
F 9	1 45 23	24°32'28	27°35	29 ⁵ 56	7°36	16°13	1°31	25°36	11°33	21°53	24°20	3°40	4°31	23°44	5° 2	F 9
S 10	1 49 20	25°32'23	9 ⁵ 57	28°42	8°51	16°58	1°43	25°38	11°36	21°56	24°21	3°D40	4°28	23°51	5°10	S 10
S 11	1 53 16	26°32'19	22° 3	27°26	10° 5	17°42	1°55	25°40	11°39	21°58	24°22	3°R41	4°24	23°57	5°18	S 11
M12	1 57 13	27°32'17	3 ² 58	26° 9	11°20	18°27	2° 7	25°42	11°41	22° 0	24°24	3°40	4°21	24° 4	5°27	M12
T 13	2 1 9	28°32'16	15°48	24°55	12°35	19°11	2°19	25°44	11°44	22° 2	24°25	3°39	4°18	24°11	5°35	T 13
W14	2 5 6	29°32'17	27°38	23°45	13°50	19°56	2°32	25°46	11°47	22° 5	24°26	3°35	4°15	24°18	5°43	W14
T 15	2 9 2	0 ¹ 32'20	9 ¹ 33	22°42	15° 5	20°41	2°44	25°49	11°50	22° 7	24°27	3°28	4°12	24°24	5°51	T 15
F 16	2 12 59	1°32'24	21°37	21°48	16°20	21°26	2°57	25°51	11°53	22° 9	24°28	3°20	4° 8	24°31	6° 0	F 16
S 17	2 16 56	2°32'30	3 ¹ 52	21° 3	17°35	22°10	3° 9	25°54	11°55	22°11	24°29	3° 9	4° 5	24°38	6° 8	S 17
S 18	2 20 52	3°32'38	16°20	20°30	18°50	22°55	3°22	25°56	11°58	22°13	24°30	2°58	4° 2	24°44	6°16	S 18
M19	2 24 49	4°32'47	29° 2	20° 8	20° 5	23°40	3°34	25°59	12° 1	22°16	24°30	2°47	3°59	24°51	6°24	M19
T 20	2 28 45	5°32'59	11 ¹ 58	19°D58	21°20	24°26	3°47	26° 2	12° 3	22°18	24°31	2°37	3°56	24°58	6°33	T 20
W21	2 32 42	6°33'12	25° 7	19°59	22°35	25°11	4° 0	26° 5	12° 6	22°20	24°32	2°29	3°53	25° 4	6°41	W21
T 22	2 36 38	7°33'27	8 ¹ 27	20°11	23°49	25°56	4°12	26° 8	12° 9	22°22	24°33	2°24	3°49	25°11	6°49	T 22
F 23	2 40 35	8°33'44	21°58	20°34	25° 4	26°41	4°25	26°11	12°11	22°24	24°34	2°22	3°46	25°18	6°57	F 23
S 24	2 44 31	9°34'04	5 ¹ 38	21° 5	26°19	27°26	4°38	26°14	12°13	22°27	24°34	2°D21	3°43	25°24	7° 6	S 24
S 25	2 48 28	10°34'25	19°26	21°46	27°34	28°12	4°51	26°17	12°16	22°29	24°35	2°22	3°40	25°31	7°14	S 25
M26	2 52 25	11°34'48	3 ¹ 23	22°34	28°49	28°57	5° 4	26°21	12°18	22°31	24°36	2°23	3°37	25°38	7°22	M26
T 27	2 56 21	12°35'13	17°28	23°28	0 ² 4	29°43	5°17	26°24	12°21	22°33	24°37	2°R23	3°34	25°45	7°30	T 27
W28	3 0 18	13°35'40	1 ¹ 40	24°29	1°19	0 ² 28	5°30	26°28	12°23	22°35	24°37	2°22	3°30	25°51	7°38	W28
T 29	3 4 14	14°36'09	15°58	25°35	2°34	1°14	5°43	26°31	12°25	22°37	24°38	2°18	3°27	25°58	7°47	T 29
F 30	3 8 11	15°36'40	0 ¹ 17	26°45	3°49	2° 0	5°56	26°35	12°27	22°39	24°38	2°12	3°24	26° 5	7°55	F 30
S 31	3 12 7	16 ¹ 37'12	14 ¹ 34	27 ⁵ 59	5 ² 4	2 ² 45	6 ² 9	26 ³ 39	12 ¹ 29	22 ¹ 42	24 ⁰ 39	2 ⁵ 5	3 ⁵ 21	26 ² 11	8 ¹ 3	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
T 1	6s32	13n29	4n24	16s28	3s11	9s59	0n43	23s21	1s17	19s40	0n33	21s39	0s32	8n 6	0n44	6s51
F 2	6 55	8 12	4 52	16 18	3 6	10 28	0 40	23 27	1 18	19 42	0 33	21 39	0 32	8 5	0 44	6 52
S 3	7 18	2 28	5 1	16 4	2 59	10 56	0 38	23 33	1 18	19 45	0 33	21 39	0 32	8 3	0 44	6 53
S 4	7 40	3s21	4 50	15 45	2 50	11 25	0 36	23 39	1 18	19 47	0 32	21 38	0 33	8 2	0 44	6 54
M 5	8 3	8 54	4 21	15 21	2 39	11 53	0 34	23 45	1 18	19 50	0 32	21 38	0 33	8 1	0 44	6 55
T 6	8 25	13 51	3 36	14 53	2 27	12 20	0 32	23 51	1 19	19 53	0 32	21 38	0 33	8 0	0 44	6 56
W 7	8 48	17 57	2 41	14 20	2 13	12 48	0 29	23 56	1 19	19 55	0 32	21 38	0 33	7 59	0 44	6 56
T 8	9 10	21 2	1 38	13 43	1 57	13 15	0 27	24 1	1 19	19 58	0 32	21 37	0 33	7 58	0 44	6 57
F 9	9 32	22 57	0 32	13 2	1 39	13 42	0 25	24 6	1 19	20 0	0 32	21 37	0 33	7 56	0 44	6 58
S 10	9 54	23 41	0s33	12 18	1 20	14 8	0 23	24 11	1 19	20 3	0 32	21 37	0 33	7 55	0 44	6 59
S 11	10 16	23 17	1 36	11 32	1 0	14 34	0 20	24 15	1 19	20 5	0 31	21 36	0 33	7 54	0 45	7 0
M12	10 38	21 49	2 34	10 45	0 18	14 19	0 18	24 19	1 19	20 8	0 31	21 36	0 33	7 53	0 45	7 1
T 13	10 59	19 24	3 25	9 58	0 19	15 25	0 15	24 23	1 20	20 11	0 31	21 36	0 33	7 52	0 45	7 1
W14	11 21	16 11	4 7	9 13	0n 1	15 50	0 13	24 27	1 20	20 13	0 31	21 35	0 33	7 51	0 45	7 2
T 15	11 42	12 18	4 38	8 32	0 21	16 15	0 10	24 31	1 20	20 16	0 31	21 35	0 33	7 50	0 45	7 3
F 16	12 3	7 53	4 57	7 54	0 40	16 39	0 8	24 34	1 20	20 18	0 31	21 34	0 33	7 49	0 45	7 4
S 17	12 23	3 6	5 4	7 21	0 57	17 2	0 6	24 37	1 20	20 21	0 31	21 34	0 33	7 48	0 45	7 5
S 18	12 44	1n54	4 56	6 54	1 13	17 26	0 3	24 39	1 20	20 23	0 31	21 34	0 33	7 47	0 45	7 5
M19	13 4	6 55	4 33	6 33	1 27	17 48	0 1	24 42	1 20	20 26	0 30	21 33	0 33	7 46	0 45	7 6
T 20	13 25	11 44	3 56	6 17	1 40	18 11	0s 2	24 44	1 20	20 28	0 30	21 33	0 33	7 45	0 45	7 7
W21	13 45	16 6	3 6	6 8	1 50	18 32	0 5	24 46	1 20	20 31	0 30	21 32	0 33	7 44	0 45	7 8
T 22	14 4	19 44	2 5	6 5	1 59	18 54	0 7	24 47	1 20	20 33	0 30	21 31	0 33	7 43	0 45	7 9
F 23	14 24	22 20	0 56	6 7	2 6	19 15	0 10	24 49	1 20	20 36	0 30	21 31	0 33	7 42	0 45	7 9
S 24	14 43	23 41	0n18	6 14	2 11	19 35	0 12	24 50	1 21	20 38	0 30	21 30	0 33	7 41	0 45	7 10
S 25	15 2	23 35	1 31	6 25	2 15	19 55	0 15	24 50	1 21	20 41	0 30	21 30	0 33	7 40	0 45	7 11
M26	15 21	22 2	2 39	6 41	2 17	20 14	0 17	24 51	1 21	20 43	0 30	21 29	0 33	7 39	0 45	7 12
T 27	15 40	19 6	3 39	7 0	2 18	20 33	0 20	24 51	1 21	20 46	0 29	21 28	0 33	7 39	0 45	7 13
W28	15 58	15 2	4 25	7 22	2 18	20 51	0 22	24 51	1 21	20 48	0 29	21 28	0 33	7 38	0 45	7 13
T 29	16 16	10 5	4 56	7 47	2 17	21 8	0 25	24 51	1 21	20 50	0 29	21 27	0 33	7 37	0 45	7 14
F 30	16 34	4 35	5 8	8 14	2 16	21 25	0 27	24 50	1 21	20 53	0 29	21 26	0 33	7 36	0 45	7 15
S 31	16s51	1s 8	5n 1	8s43	2n13	21s42	0s30	24s49	1s21	20s55	0n29	21s26	0s33	7n35	0n45	7s16

Julian Day Number = 2254961.5, Delta T = 06m08s

Ecliptic obliquity = 23°30'33", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°13'51", Lahiri = 16°20'52" Julian Calendar 1 Oct. 1461 == Greg. Calendar 10 Oct. 1461

ASTRODIENST EPHEMERIS for the year 1461

geocentric

NOVEMBER 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 16 4	17 ¹¹ 37'47	28 ¹¹ 43	29 ¹¹ 16	6 ¹¹ 18	3 ¹¹ 31	6 ¹¹ 23	26 ¹¹ 42	12 ¹¹ 32	22 ¹¹ 44	24 ¹¹ 39	1 ¹¹ R58	3 ¹¹ 18	26 ¹¹ 18	8 ¹¹ 11	S 1
M 2	3 20 0	18 ¹¹ 38'23	12 ¹¹ 40	0 ¹¹ 37	7 ¹¹ 33	4 ¹¹ 17	6 ¹¹ 36	26 ¹¹ 46	12 ¹¹ 34	22 ¹¹ 46	24 ¹¹ 40	1 ¹¹ 50	3 ¹¹ 14	26 ¹¹ 25	8 ¹¹ 19	M 2
T 3	3 23 57	19 ¹¹ 39'00	26 ¹¹ 21	1 ¹¹ 59	8 ¹¹ 48	5 ¹¹ 3	6 ¹¹ 49	26 ¹¹ 50	12 ¹¹ 36	22 ¹¹ 48	24 ¹¹ 40	1 ¹¹ 44	3 ¹¹ 11	26 ¹¹ 31	8 ¹¹ 28	T 3
W 4	3 27 54	20 ¹¹ 39'39	9 ¹¹ 42	3 ¹¹ 24	10 ¹¹ 3	5 ¹¹ 49	7 ¹¹ 2	26 ¹¹ 55	12 ¹¹ 38	22 ¹¹ 50	24 ¹¹ 41	1 ¹¹ 40	3 ¹¹ 8	26 ¹¹ 38	8 ¹¹ 36	W 4
T 5	3 31 50	21 ¹¹ 40'20	22 ¹¹ 42	4 ¹¹ 50	11 ¹¹ 18	6 ¹¹ 35	7 ¹¹ 16	26 ¹¹ 59	12 ¹¹ 39	22 ¹¹ 52	24 ¹¹ 41	1 ¹¹ 38	3 ¹¹ 5	26 ¹¹ 45	8 ¹¹ 44	T 5
F 6	3 35 47	22 ¹¹ 41'02	5 ¹¹ 21	6 ¹¹ 17	12 ¹¹ 33	7 ¹¹ 21	7 ¹¹ 29	27 ¹¹ 3	12 ¹¹ 41	22 ¹¹ 54	24 ¹¹ 42	1 ¹¹ D38	3 ¹¹ 2	26 ¹¹ 51	8 ¹¹ 52	F 6
S 7	3 39 43	23 ¹¹ 41'45	17 ¹¹ 43	7 ¹¹ 46	13 ¹¹ 48	8 ¹¹ 7	7 ¹¹ 42	27 ¹¹ 7	12 ¹¹ 43	22 ¹¹ 56	24 ¹¹ 42	1 ¹¹ 39	2 ¹¹ 59	26 ¹¹ 58	9 ¹¹ 0	S 7
S 8	3 43 40	24 ¹¹ 42'29	29 ¹¹ 50	9 ¹¹ 15	15 ¹¹ 3	8 ¹¹ 53	7 ¹¹ 56	27 ¹¹ 12	12 ¹¹ 45	22 ¹¹ 58	24 ¹¹ 42	1 ¹¹ 40	2 ¹¹ 55	27 ¹¹ 5	9 ¹¹ 8	S 8
M 9	3 47 36	25 ¹¹ 43'15	11 ¹¹ 47	10 ¹¹ 46	16 ¹¹ 17	9 ¹¹ 39	8 ¹¹ 9	27 ¹¹ 16	12 ¹¹ 47	23 ¹¹ 0	24 ¹¹ 43	1 ¹¹ 42	2 ¹¹ 52	27 ¹¹ 12	9 ¹¹ 16	M 9
T 10	3 51 33	26 ¹¹ 44'01	23 ¹¹ 38	12 ¹¹ 17	17 ¹¹ 32	10 ¹¹ 25	8 ¹¹ 23	27 ¹¹ 21	12 ¹¹ 48	23 ¹¹ 2	24 ¹¹ 43	1 ¹¹ R43	2 ¹¹ 49	27 ¹¹ 18	9 ¹¹ 24	T 10
W11	3 55 29	27 ¹¹ 44'48	5 ¹¹ 30	13 ¹¹ 48	18 ¹¹ 47	11 ¹¹ 12	8 ¹¹ 36	27 ¹¹ 26	12 ¹¹ 50	23 ¹¹ 4	24 ¹¹ 43	1 ¹¹ 43	2 ¹¹ 46	27 ¹¹ 25	9 ¹¹ 32	W11
T 12	3 59 26	28 ¹¹ 45'37	17 ¹¹ 25	15 ¹¹ 20	20 ¹¹ 2	11 ¹¹ 58	8 ¹¹ 50	27 ¹¹ 30	12 ¹¹ 51	23 ¹¹ 6	24 ¹¹ 43	1 ¹¹ 41	2 ¹¹ 43	27 ¹¹ 32	9 ¹¹ 40	T 12
F 13	4 3 23	29 ¹¹ 46'26	29 ¹¹ 31	16 ¹¹ 52	21 ¹¹ 17	12 ¹¹ 44	9 ¹¹ 3	27 ¹¹ 35	12 ¹¹ 53	23 ¹¹ 8	24 ¹¹ 43	1 ¹¹ 37	2 ¹¹ 40	27 ¹¹ 38	9 ¹¹ 48	F 13
S 14	4 7 19	0 ¹¹ 47'16	11 ¹¹ 49	18 ¹¹ 25	22 ¹¹ 32	13 ¹¹ 31	9 ¹¹ 17	27 ¹¹ 40	12 ¹¹ 54	23 ¹¹ 9	24 ¹¹ 43	1 ¹¹ 33	2 ¹¹ 36	27 ¹¹ 45	9 ¹¹ 56	S 14
S 15	4 11 16	1 ¹¹ 48'07	24 ¹¹ 24	19 ¹¹ 58	23 ¹¹ 46	14 ¹¹ 17	9 ¹¹ 30	27 ¹¹ 45	12 ¹¹ 56	23 ¹¹ 11	24 ¹¹ 44	1 ¹¹ 28	2 ¹¹ 33	27 ¹¹ 52	10 ¹¹ 4	S 15
M16	4 15 12	2 ¹¹ 48'59	7 ¹¹ 17	21 ¹¹ 31	25 ¹¹ 1	15 ¹¹ 4	9 ¹¹ 44	27 ¹¹ 50	12 ¹¹ 57	23 ¹¹ 13	24 ¹¹ 44	1 ¹¹ 23	2 ¹¹ 30	27 ¹¹ 58	10 ¹¹ 11	M16
T 17	4 19 9	3 ¹¹ 49'53	20 ¹¹ 29	23 ¹¹ 4	26 ¹¹ 16	15 ¹¹ 50	9 ¹¹ 57	27 ¹¹ 55	12 ¹¹ 58	23 ¹¹ 15	24 ¹¹ 44	1 ¹¹ 18	2 ¹¹ 27	28 ¹¹ 5	10 ¹¹ 19	T 17
W18	4 23 5	4 ¹¹ 50'47	3 ¹¹ 19	24 ¹¹ 37	27 ¹¹ 31	16 ¹¹ 37	10 ¹¹ 11	28 ¹¹ 0	13 ¹¹ 0	23 ¹¹ 17	24 ¹¹ R44	1 ¹¹ 15	2 ¹¹ 24	28 ¹¹ 12	10 ¹¹ 27	W18
T 19	4 27 2	5 ¹¹ 51'42	17 ¹¹ 44	26 ¹¹ 10	28 ¹¹ 46	17 ¹¹ 23	10 ¹¹ 24	28 ¹¹ 5	13 ¹¹ 1	23 ¹¹ 18	24 ¹¹ 44	1 ¹¹ 13	2 ¹¹ 20	28 ¹¹ 19	10 ¹¹ 35	T 19
F 20	4 30 58	6 ¹¹ 52'39	1 ¹¹ 42	27 ¹¹ 43	0 ¹¹ 0	18 ¹¹ 10	10 ¹¹ 38	28 ¹¹ 11	13 ¹¹ 2	23 ¹¹ 20	24 ¹¹ 44	1 ¹¹ D12	2 ¹¹ 17	28 ¹¹ 25	10 ¹¹ 42	F 20
S 21	4 34 55	7 ¹¹ 53'37	15 ¹¹ 49	29 ¹¹ 17	1 ¹¹ 15	18 ¹¹ 56	10 ¹¹ 52	28 ¹¹ 16	13 ¹¹ 3	23 ¹¹ 22	24 ¹¹ 43	1 ¹¹ 13	2 ¹¹ 14	28 ¹¹ 32	10 ¹¹ 50	S 21
S 22	4 38 52	8 ¹¹ 54'35	0 ¹¹ 2	0 ¹¹ 50	2 ¹¹ 30	19 ¹¹ 43	11 ¹¹ 5	28 ¹¹ 21	13 ¹¹ 4	23 ¹¹ 24	24 ¹¹ 43	1 ¹¹ 14	2 ¹¹ 11	28 ¹¹ 39	10 ¹¹ 58	S 22
M23	4 42 48	9 ¹¹ 55'35	14 ¹¹ 16	2 ¹¹ 24	3 ¹¹ 44	20 ¹¹ 30	11 ¹¹ 19	28 ¹¹ 27	13 ¹¹ 5	23 ¹¹ 25	24 ¹¹ 43	1 ¹¹ 16	2 ¹¹ 8	28 ¹¹ 45	11 ¹¹ 5	M23
T 24	4 46 45	10 ¹¹ 56'36	28 ¹¹ 30	3 ¹¹ 57	4 ¹¹ 59	21 ¹¹ 16	11 ¹¹ 33	28 ¹¹ 32	13 ¹¹ 6	23 ¹¹ 27	24 ¹¹ 43	1 ¹¹ 17	2 ¹¹ 5	28 ¹¹ 52	11 ¹¹ 13	T 24
W25	4 50 41	11 ¹¹ 57'38	12 ¹¹ 41	5 ¹¹ 31	6 ¹¹ 14	22 ¹¹ 3	11 ¹¹ 46	28 ¹¹ 38	13 ¹¹ 7	23 ¹¹ 29	24 ¹¹ 43	1 ¹¹ R17	2 ¹¹ 1	28 ¹¹ 59	11 ¹¹ 20	W25
T 26	4 54 38	12 ¹¹ 58'41	26 ¹¹ 47	7 ¹¹ 5	7 ¹¹ 29	22 ¹¹ 50	12 ¹¹ 0	28 ¹¹ 44	13 ¹¹ 8	23 ¹¹ 30	24 ¹¹ 43	1 ¹¹ 17	1 ¹¹ 58	29 ¹¹ 5	11 ¹¹ 28	T 26
F 27	4 58 34	13 ¹¹ 59'46	10 ¹¹ 46	8 ¹¹ 38	8 ¹¹ 43	23 ¹¹ 37	12 ¹¹ 13	28 ¹¹ 49	13 ¹¹ 8	23 ¹¹ 32	24 ¹¹ 42	1 ¹¹ 15	1 ¹¹ 55	29 ¹¹ 12	11 ¹¹ 35	F 27
S 28	5 2 31	15 ¹¹ 0'51	24 ¹¹ 37	10 ¹¹ 12	9 ¹¹ 58	24 ¹¹ 23	12 ¹¹ 27	28 ¹¹ 55	13 ¹¹ 9	23 ¹¹ 33	24 ¹¹ 42	1 ¹¹ 13	1 ¹¹ 52	29 ¹¹ 19	11 ¹¹ 43	S 28
S 29	5 6 27	16 ¹¹ 1'57	8 ¹¹ 18	11 ¹¹ 46	11 ¹¹ 13	25 ¹¹ 10	12 ¹¹ 41	29 ¹¹ 1	13 ¹¹ 10	23 ¹¹ 35	24 ¹¹ 42	1 ¹¹ 11	1 ¹¹ 49	29 ¹¹ 26	11 ¹¹ 50	S 29
M30	5 10 24	17 ¹¹ 3'04	21 ¹¹ 46	13 ¹¹ 20	12 ¹¹ 27	25 ¹¹ 57	12 ¹¹ 54	29 ¹¹ 7	13 ¹¹ 10	23 ¹¹ 37	24 ¹¹ 41	1 ¹¹ 9	1 ¹¹ 46	29 ¹¹ 32	11 ¹¹ 57	M30

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	17s 8	6s46	4n35	9s13	2n10	21s57	0s32	24s48	1s21	20s58	0n29	21s25	0s33	7n35	0n45	7s16	1n43	23n51	11n11	23n30	23n28	16s39	13s 5	1n16			
M 2	17 25	11 58	3 54	9 45	2 6	22 12	0 35	24 47	1 20	21 0	0 29	21 24	0 33	7 34	0 45	7 17	1 43	23 51	11 11	23 30	23 28	16 37	13 7	1 16			
T 3	17 42	16 29	2 59	10 18	2 1	22 27	0 37	24 45	1 20	21 2	0 29	21 24	0 33	7 33	0 45	7 18	1 43	23 51	11 12	23 30	23 28	16 35	13 10	1 16			
W 4	17 58	20 3	1 56	10 51	1 57	22 40	0 40	24 43	1 20	21 5	0 29	21 23	0 33	7 32	0 45	7 19	1 43	23 51	11 12	23 30	23 28	16 34	13 12	1 17			
T 5	18 14	22 30	0 48	11 25	1 51	22 54	0 42	24 41	1 20	21 7	0 29	21 22	0 33	7 32	0 45	7 19	1 43	23 51	11 13	23 30	23 28	16 32	13 14	1 17			
F 6	18 30	23 44	0s20	12 0	1 46	23 6	0 44	24 38	1 20	21 9	0 28	21 21	0 33	7 31	0 45	7 20	1 43	23 52	11 13	23 30	23 28	16 30	13 17	1 17			
S 7	18 45	23 46	1 27	12 34	1 40	23 18	0 47	24 36	1 20	21 12	0 28	21 20	0 33	7 30	0 45	7 21	1 43	23 52	11 13	23 30	23 29	16 28	13 19	1 17			
S 8	19 0	22 39	2 28	13 9	1 34	23 29	0 49	24 33	1 20	21 14	0 28	21 20	0 33	7 30	0 46	7 21	1 43	23 52	11 14	23 30	23 29	16 26	13 21	1 18			
M 9	19 15	20 32	3 21	13 43	1 27	23 39	0 51	24 29	1 20	21 16	0 28	21 19	0 33	7 29	0 46	7 22	1 43	23 53	11 14	23 30	23 29	16 24	13 23	1 18			
T 10	19 29	17 33	4 6	14 17	1 21	23 49	0 54	24 26	1 20	21 18	0 28	21 18	0 33	7 28	0 46	7 23	1 43	23 53	11 15	23 30	23 29	16 23	13 26	1 18			
W11	19 43	13 52	4 40	14 51	1 14	23 58	0 56	24 22	1 20	21 21	0 28	21 17	0 33	7 28	0 46	7 24	1 43	23 53	11 15	23 30	23 29	16 21	13 28	1 19			
T 12	19 56	9 37	5 3	15 25	1 7	24 6	0 58	24 17	1 20	21 23	0 28	21 16	0 33	7 27	0 46	7 24	1 43	23 53	11 16	23 30	23 29	16 19	13 30	1 19			
F 13	20 10	4 58	5 12	15 58	1 0	24 14	1 0	24 13	1 20	21 25	0 28	21 15	0 34	7 27	0 46	7 25	1 43	23 54	11 16	23 30	23 29	16 17	13 32	1 19			
S 14	20 23	0 2	5 7	16 30	0 53	24 20	1 3	24 8	1 19	21 27	0 28	21 14	0 34	7 26	0 46	7 26	1 43	23 54	11 16	23 30	23 29	16 15	13 35	1 20			
S 15	20 35	5n 1	4 48	17 2	0 46	24 26	1 5	24 3	1 19	21 29	0 28	21 13	0 34	7 26	0 46	7 26	1 43	23 54	11 17	23 30	23 29	16 13	13 37	1 20			
M16	20 47	9 59	4 14	17 34	0 39	24 32	1 7	23 58	1 19	21 31	0 27	21 12	0 34	7 25	0 46	7 27	1 43	23 55	11 17	23 30	23 29	16 11	13 39	1 20			
T 17	20 59	14 38	3 25	18 5	0 32	24 36	1 9	23 52	1 19	21 33	0 27	21 11	0 34	7 25	0 46	7 27	1 43	23 55	11 18	23 30	23 29	16 9	13 41	1 21			
W18	21 10	18 39	2 24	18 34	0 25	24 40	1 11	23 47	1 19	21 36	0 27	21 10	0 34	7 24	0 46	7 28	1 43	23 56	11 18	23 30	23 29	16 8	13 43	1 21			
T 19	21 21	21 43	1 13	19 4	0 18	24 43	1 13	23 40	1 19	21 38	0 27	21 9	0 34	7 24	0 46	7 29	1 44	23 56	11 18	23 30	23 29	16 6	13 45	1 21			
F 20	21 31	23 33	0n 3	19 32	0 11	24 45	1 15	23 34	1 18	21 40	0 27	21 8	0 34	7 24	0 46	7 29	1 44	23 56	11 19	23 30	23 29	16 4	13 47	1 22			
S 21	21 41	23 53	1 20	19 59	0 4	24 47	1 17	23 27	1 18	21 42	0 27	21 7	0 34	7 23	0 46	7 30	1 44	23 57	11 19	23 30	23 29	16 2	13 49	1 22			
S 22	21 51	22 41	2 32	20 26	0s 3	24 48	1 19	23 21	1 18	21 44	0 27	21 6	0 34	7 23	0 46	7 30	1 44	23 57	11 20	23 30	23 29	16 0	13 51	1 22			
M23	22 0	20 2	3 35	20 52	0 10	24 48	1 20	23 13	1 18	21 46	0 27	21 5	0 34	7 23	0 46	7 31	1 44	23 58	11 20	23 30	23 30	15 58	13 53	1 23			
T24	22 9	16 10	4 25	21 16	0 16	24 47	1 22	23 6	1 18	21 48	0 27	21 4	0 34	7 22	0 46	7 32	1 44	23 58	11 20	23 30	23 30	15 56	13 55	1 23			
W25	22 17	11 25	4 59	21 40	0 23	24 45	1 24	22 58	1 17	21 49	0 27	21 3	0 34	7 22	0 46	7 32	1 44	23 58	11 21	23 30	23 30	15 54	13 57	1 23			
T 26	22 25	6 5	5 15	22 2	0 30	24 43	1 25	22 50	1 17	21 51	0 27	21 2	0 34	7 22	0 46	7 33	1 44	23 59	11 21	23 30	23 30	15 52	13 59	1 24			
F 27	22 33	0 30	5 11	22 24	0 36	24 40	1 27	22 42	1 17	21 53	0 26	21 1	0 34	7 21	0 46	7 33	1 44	23 59	11 22	23 30	23 30	15 50	14 1	1 24			
S 28	22 40	5s 4	4 50	22 44	0 42	24 36	1 29	22 34	1 17	21 55	0 26	20 59	0 34	7 21	0 46	7 34	1 44	24 0	11 22	23 30	23 30	15 48	14 3	1 24			
S 29	22 46	10 20	4 12	23 4	0 48	24 32	1 30	22 25	1 16	21 57	0 26	20 58	0 34	7 21	0 46	7 34	1 44	24 0	11 22	23 30	23 30	15 46	14 5	1 25			
M30	22s53	15s 2	3n21	23s22	0s54	24s26	1s31	22s16	1s16	21s59	0n26	20s57	0s34	7n21	0n46	7s35	1n44	24n 1	11n23	23n30	23n30	15s44	14s 7	1n25			

ASTRODIENST EPHEMERIS for the year 1461
geocentric

DECEMBER 1461 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 14 21	18° 4' 12"	5° 1'	14° 55'	13° 42'	26° 44'	13° 8'	29° 13'	13° 11'	23° 38'	24° 41'	1° 7'	1° 42'	29° 39'	12° 4'	T 1
W 2	5 18 17	19° 5' 21"	18° 2'	16° 29'	14° 57'	27° 31'	13° 22'	29° 19'	13° 11'	23° 39'	24° 40'	1° 6'	1° 39'	29° 46'	12° 12'	W 2
T 3	5 22 14	20° 6' 30"	0° 347'	18° 3'	16° 11'	28° 18'	13° 35'	29° 25'	13° 12'	23° 41'	24° 40'	1° 6'	1° 36'	29° 52'	12° 19'	T 3
F 4	5 26 10	21° 7' 40"	13° 17'	19° 38'	17° 26'	29° 5'	13° 49'	29° 31'	13° 12'	23° 42'	24° 40'	1° 6'	1° 33'	29° 59'	12° 26'	F 4
S 5	5 30 7	22° 8' 50"	25° 34'	21° 13'	18° 40'	29° 52'	14° 2'	29° 37'	13° 12'	23° 44'	24° 39'	1° 7'	1° 30'	0° 6'	12° 33'	S 5
S 6	5 34 3	23° 10' 00"	7° 40'	22° 48'	19° 55'	0° 39'	14° 16'	29° 43'	13° 12'	23° 45'	24° 39'	1° 8'	1° 26'	0° 13'	12° 40'	S 6
M 7	5 38 0	24° 11' 10"	19° 36'	24° 23'	21° 9'	1° 26'	14° 29'	29° 49'	13° 13'	23° 46'	24° 38'	1° 9'	1° 23'	0° 19'	12° 47'	M 7
T 8	5 41 57	25° 12' 21"	1° 28'	25° 59'	22° 24'	2° 13'	14° 43'	29° 56'	13° 13'	23° 48'	24° 37'	1° 10'	1° 20'	0° 26'	12° 54'	T 8
W 9	5 45 53	26° 13' 31"	13° 19'	27° 35'	23° 39'	3° 0'	14° 57'	0° 2	13° 13'	23° 49'	24° 37'	1° 10'	1° 17'	0° 33'	13° 0'	W 9
T 10	5 49 50	27° 14' 42"	25° 13'	29° 11'	24° 53'	3° 47'	15° 10'	0° 8'	13° 13'	23° 50'	24° 36'	1° 10'	1° 14'	0° 39'	13° 7'	T 10
F 11	5 53 46	28° 15' 52"	7° 17'	0° 347'	26° 7'	4° 34'	15° 24'	0° 15'	13° 13'	23° 51'	24° 35'	1° 10'	1° 11'	0° 46'	13° 14'	F 11
S 12	5 57 43	29° 17' 03"	19° 33'	2° 23'	27° 22'	5° 21'	15° 37'	0° 21'	13° 13'	23° 53'	24° 35'	1° 10'	1° 7'	0° 53'	13° 20'	S 12
S 13	6 1 39	0° 18' 13"	2° 8'	4° 0'	28° 36'	6° 9'	15° 50'	0° 28'	13° 12'	23° 54'	24° 34'	1° 10'	1° 4'	0° 59'	13° 27'	S 13
M14	6 5 36	1° 19' 24"	15° 2'	5° 37'	29° 51'	6° 56'	16° 4'	0° 34'	13° 12'	23° 55'	24° 33'	1° 10'	1° 1'	1° 6'	13° 33'	M14
T 15	6 9 32	2° 20' 34"	28° 20'	7° 15'	1° 5'	7° 43'	16° 17'	0° 41'	13° 12'	23° 56'	24° 32'	1° 10'	0° 58'	1° 13'	13° 40'	T 15
W16	6 13 29	3° 21' 44"	12° 11'	8° 53'	2° 19'	8° 30'	16° 31'	0° 47'	13° 12'	23° 57'	24° 32'	1° 10'	0° 55'	1° 20'	13° 46'	W16
T 17	6 17 26	4° 22' 54"	26° 5'	10° 31'	3° 34'	9° 17'	16° 44'	0° 54'	13° 11'	23° 58'	24° 31'	1° 10'	0° 52'	1° 26'	13° 52'	T 17
F 18	6 21 22	5° 24' 04"	10° 28'	12° 9'	4° 48'	10° 4'	16° 57'	1° 1'	13° 11'	23° 59'	24° 30'	1° 10'	0° 48'	1° 33'	13° 59'	F 18
S 19	6 25 19	6° 25' 14"	25° 4'	13° 47'	6° 2'	10° 51'	17° 11'	1° 7'	13° 10'	24° 0'	24° 29'	1° 10'	0° 45'	1° 40'	14° 5'	S 19
S 20	6 29 15	7° 26' 24"	9° 46'	15° 26'	7° 16'	11° 39'	17° 24'	1° 14'	13° 10'	24° 1'	24° 28'	1° 9'	0° 42'	1° 46'	14° 11'	S 20
M21	6 33 12	8° 27' 34"	24° 29'	17° 5'	8° 30'	12° 26'	17° 37'	1° 21'	13° 9'	24° 2'	24° 27'	1° 8'	0° 39'	1° 53'	14° 17'	M21
T 22	6 37 8	9° 28' 44"	9° 5'	18° 44'	9° 45'	13° 13'	17° 50'	1° 28'	13° 8'	24° 3'	24° 26'	1° 7'	0° 36'	2° 0'	14° 23'	T 22
W23	6 41 5	10° 29' 54"	23° 29'	20° 24'	10° 59'	14° 0'	18° 4'	1° 35'	13° 8'	24° 4'	24° 25'	1° 7'	0° 32'	2° 6'	14° 29'	W23
T 24	6 45 1	11° 31' 04"	7° 39'	22° 3'	12° 13'	14° 47'	18° 17'	1° 41'	13° 7'	24° 4'	24° 24'	1° 6'	0° 29'	2° 13'	14° 34'	T 24
F 25	6 48 58	12° 32' 14"	21° 31'	23° 42'	13° 27'	15° 34'	18° 30'	1° 48'	13° 6'	24° 5'	24° 23'	1° 6'	0° 26'	2° 20'	14° 40'	F 25
S 26	6 52 55	13° 33' 24"	5° 7'	25° 22'	14° 41'	16° 21'	18° 43'	1° 55'	13° 5'	24° 6'	24° 22'	1° 7'	0° 23'	2° 27'	14° 46'	S 26
S 27	6 56 51	14° 34' 34"	18° 27'	27° 1'	15° 55'	17° 9'	18° 56'	2° 2'	13° 4'	24° 7'	24° 21'	1° 8'	0° 20'	2° 33'	14° 51'	S 27
M28	7 0 48	15° 35' 44"	1° 31'	28° 40'	17° 9'	17° 56'	19° 9'	2° 9'	13° 3'	24° 7'	24° 20'	1° 9'	0° 17'	2° 40'	14° 57'	M28
T 29	7 4 44	16° 36' 53"	14° 22'	0° 18'	18° 23'	18° 43'	19° 22'	2° 16'	13° 2'	24° 8'	24° 19'	1° 11'	0° 13'	2° 47'	15° 2'	T 29
W30	7 8 41	17° 38' 03"	27° 0'	1° 55'	19° 37'	19° 30'	19° 35'	2° 23'	13° 1'	24° 9'	24° 18'	1° 11'	0° 10'	2° 53'	15° 7'	W30
T 31	7 12 37	18° 39' 12"	9° 27'	3° 32'	20° 50'	20° 17'	19° 47'	2° 30'	13° 0'	24° 9'	24° 17'	1° 11'	0° 7'	3° 0'	15° 13'	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	22s58	18s55	2n19	23s39	1s 0	24s20	1s33	22s 7	1s16	22s 1	0n26	20s56	0s34	7n21	0n46	7s35	1n44	24n 1	11n23	23n30	23n30	15s43	14s 9	1n25					
W 2	23 4	21 47	1 12	23 55	1 6	24 14	1 34	21 57	1 16	22 2	0 26	20 55	0 34	7 21	0 47	7 36	1 44	24 2	11 24	23 30	23 30	15 41	14 11	1 26					
T 3	23 8	23 29	0 2	24 9	1 11	24 6	1 35	21 48	1 15	22 4	0 26	20 53	0 34	7 20	0 47	7 36	1 44	24 2	11 24	23 30	23 30	15 39	14 13	1 26					
F 4	23 13	23 57	1s 7	24 23	1 17	23 58	1 36	21 38	1 15	22 6	0 26	20 52	0 34	7 20	0 47	7 37	1 44	24 3	11 24	23 30	23 30	15 37	14 14	1 26					
S 5	23 17	23 15	2 12	24 35	1 22	23 49	1 37	21 27	1 15	22 8	0 26	20 51	0 34	7 20	0 47	7 37	1 44	24 3	11 25	23 30	23 30	15 35	14 16	1 27					
S 6	23 20	21 27	3 9	24 45	1 27	23 39	1 39	21 17	1 14	22 9	0 26	20 50	0 34	7 20	0 47	7 38	1 44	24 4	11 25	23 30	23 30	15 33	14 18	1 27					
M 7	23 23	18 44	3 58	24 55	1 32	23 29	1 39	21 6	1 14	22 11	0 26	20 48	0 34	7 20	0 47	7 38	1 44	24 5	11 25	23 30	23 30	15 31	14 20	1 27					
T 8	23 25	15 17	4 36	25 3	1 36	23 17	1 40	20 55	1 14	22 12	0 26	20 47	0 34	7 20	0 47	7 39	1 44	24 5	11 26	23 30	23 30	15 29	14 21	1 28					
W 9	23 27	11 13	5 2	25 9	1 40	23 6	1 41	20 44	1 14	22 14	0 25	20 46	0 34	7 20	0 47	7 39	1 45	24 6	11 26	23 30	23 30	15 27	14 23	1 28					
T 10	23 29	6 44	5 16	25 15	1 44	22 53	1 42	20 33	1 13	22 16	0 25	20 44	0 34	7 20	0 47	7 39	1 45	24 6	11 27	23 30	23 30	15 25	14 25	1 29					
F 11	23 30	1 56	5 16	25 18	1 48	22 40	1 43	20 21	1 13	22 17	0 25	20 43	0 34	7 20	0 47	7 40	1 45	24 7	11 27	23 30	23 30	15 23	14 26	1 29					
S 12	23 30	3n 1	5 1	25 21	1 51	22 26	1 43	20 9	1 13	22 19	0 25	20 42	0 35	7 20	0 47	7 40	1 45	24 7	11 27	23 30	23 30	15 21	14 28	1 29					
S 13	23 31	7 59	4 32	25 21	1 55	22 12	1 44	19 57	1 12	22 20	0 25	20 40	0 35	7 20	0 47	7 41	1 45	24 8	11 28	23 30	23 30	15 19	14 30	1 30					
M14	23 30	12 44	3 49	25 21	1 57	21 56	1 44	19 45	1 12	22 22	0 25	20 39	0 35	7 21	0 47	7 41	1 45	24 9	11 28	23 30	23 30	15 17	14 31	1 30					
T 15	23 29	17 3	2 52	25 18	2 0	21 41	1 45	19 33	1 11	22 23	0 25	20 38	0 35	7 21	0 47	7 41	1 45	24 9	11 28	23 30	23 30	15 15	14 33	1 31					
W16	23 28	20 34	1 44	25 15	2 2	21 24	1 45	19 20	1 11	22 25	0 25	20 36	0 35	7 21	0 47	7 42	1 45	24 10	11 29	23 30	23 30	15 13	14 34	1 31					
T 17	23 26	22 59	0 28	25 9	2 4	21 7	1 45	19 7	1 11	22 26	0 25	20 35	0 35	7 21	0 47	7 42	1 45	24 10	11 29	23 30	23 30	15 11	14 36	1 31					
F 18	23 24	23 57	0n51	25 2	2 6	20 49	1 45	18 54	1 10	22 27	0 25	20 33	0 35	7 21	0 47	7 42	1 45	24 11	11 29	23 30	23 30	15 9	14 37	1 32					
S 19	23 21	23 18	2 9	24 54	2 7	20 31	1 45	18 41	1 10	22 29	0 25	20 32	0 35	7 22	0 47	7 43	1 45	24 12	11 30	23 30	23 30	15 7	14 39	1 32					
S 20	23 18	21 2	3 18	24 43	2 7	20 12	1 45	18 27	1 10	22 30	0 25	20 31	0 35	7 22	0 47	7 43	1 45	24 12	11 30	23 30	23 30	15 5	14 40	1 32					
M21	23 14	17 24	4 15	24 31	2 8	19 53	1 45	18 14	1 9	22 31	0 25	20 29	0 35	7 22	0 47	7 43	1 45	24 13	11 30	23 30	23 30	15 3	14 42	1 33					
T 22	23 10	12 43	4 54	24 18	2 7	19 33	1 45	18 0	1 9	22 33	0 25	20 28	0 35	7 22	0 47	7 43	1 45	24 14	11 31	23 30	23 30	15 1	14 43	1 33					
W23	23 6	7 24	5 14	24 3	2 7	19 12	1 45	17 46	1 8	22 34	0 24	20 26	0 35	7 23	0 47	7 44	1 45	24 14	11 31	23 30	23 30	14 59	14 44	1 34					
T 24	23 0	1 47	5 15	23 46	2 6	18 51	1 45	17 32	1 8	22 35	0 24	20 25	0 35	7 23	0 47	7 44	1 45	24 15	11 31	23 30	23 30	14 56	14 46	1 34					
F 25	22 55	3s49	4 57	23 27	2 4	18 30	1 44	17 17	1 7	22 36	0 24	20 23	0 35	7 23	0 48	7 44	1 45	24 15	11 32	23 30	23 31	14 54	14 47	1 35					
S 26	22 49	9 8	4 23	23 7	2 2	18 8	1 44	17 3	1 7	22 37	0 24	20 22	0 35	7 24	0 48	7 44	1 46	24 16	11 32	23 30	23 31	14 52	14 48	1 35					
S 27	22 43	13 55	3 35	22 45	1 59	17 45	1 43	16 48	1 7	22 39	0 24	20 20	0 35	7 24	0 48	7 45	1 46	24 17	11 32	23 30	23 31	14 50	14 49	1 35					
M28	22 36	17 58	2 37	22 22	1 55	17 22	1 42	16 33	1 6	22 40	0 24	20 19	0 35	7 25	0 48	7 45	1 46	24 17	11 33	23 30	23 31	14 48	14 50	1 36					
T 29	22 28	21 4	1 32	21 57	1 51	16 59	1 42	16 18	1 6	22 41	0 24	20 17	0 35	7 25	0 48	7 45	1 46	24 18	11 33	23 30	23 31	14 46	14 52	1 36					
W30	22 21	23 5	0 23	21 31	1 46	16 35	1 41	16 3	1 5	22 42	0 24	20 16	0 35	7 25	0 48	7 45	1 46	24 19	11 33	23 30	23 31	14 44	14 53	1 37					
T 31	22s12	23s56	0s45	21s 3	1s41	16s10	1s40	15s47	1s 5	22s43	0n24	20s14	0s36	7n26	0n48	7s45	1n46	24n19	11n33	23n30	23n31	14s42	14s54	1n37					

Julian Day Number = 2255022.5, Delta T = 06m08s
Ecliptic obliquity = 23°30'32", Nutation = - 0°00'18", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°14'00", Lahiri = 16°21'00" Julian Calendar 1 Dec. 1461 == Greg. Calendar 10 Dec. 1461