



Astrodienst Ephemeris Tables for the year 1491

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 1491

geocentric

JANUARY 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 16 30	19°38'03	16°29	25°40	6°17	11°29	26°R 5	28°312	19°39	25°27	1°55	10°R27	9°11	13°13	23°57	S 1
S 2	7 20 27	20°39'09	29°36	26°34	7°21	11° 7	26°B 3	28°19	19°43	25°54	1°56	10°23	9° 8	13°20	23°58	S 2
M 3	7 24 23	21°40'14	12°59	27°31	8°25	11°R 7	26° 1	28°26	19°46	25°56	1°57	10°21	9° 5	13°26	23°58	M 3
T 4	7 28 20	22°41'19	26°38	28°31	9°29	11° 7	25°59	28°33	19°50	25°58	1°58	10°D20	9° 1	13°33	23°59	T 4
W 5	7 32 16	23°42'24	10°36	29°34	10°33	11° 5	25°58	28°40	19°53	26° 0	1°59	10°21	8°58	13°40	23°59	W 5
T 6	7 36 13	24°43'28	24°51	0°340	11°36	11° 3	25°57	28°47	19°57	26° 2	1°59	10°23	8°55	13°46	24° 0	T 6
F 7	7 40 9	25°44'32	9°24	1°48	12°39	11° 0	25°56	28°54	20° 1	26° 4	2° 0	10°R23	8°52	13°53	24° 1	F 7
S 8	7 44 6	26°45'35	24° 9	2°58	13°41	10°56	25°55	29° 1	20° 4	26° 6	2° 1	10°23	8°49	14° 0	24° 1	S 8
S 9	7 48 2	27°46'38	9°3	4°10	14°43	10°52	25°54	29° 9	20° 8	26° 8	2° 1	10°20	8°45	14° 6	24° 2	S 9
M10	7 51 59	28°47'40	23°54	5°24	15°45	10°47	25°54	29°16	20°11	26°10	2° 2	10°14	8°42	14°13	24° 3	M10
T 11	7 55 56	29°48'41	8°38	6°39	16°46	10°40	25°D54	29°23	20°15	26°12	2° 2	10° 7	8°39	14°20	24° 4	T 11
W12	7 59 52	0°49'41	23° 5	7°56	17°47	10°33	25°54	29°30	20°18	26°14	2° 3	9°59	8°36	14°26	24° 5	W12
T 13	8 3 49	1°50'39	7°10	9°15	18°48	10°26	25°54	29°37	20°22	26°16	2° 3	9°50	8°33	14°33	24° 6	T 13
F 14	8 7 45	2°51'37	20°48	10°34	19°48	10°17	25°54	29°44	20°25	26°18	2° 4	9°42	8°30	14°39	24° 7	F 14
S 15	8 11 42	3°52'33	3°59	11°55	20°47	10° 8	25°55	29°51	20°29	26°20	2° 4	9°36	8°26	14°46	24° 9	S 15
S 16	8 15 38	4°53'28	16°44	13°17	21°46	9°58	25°56	29°59	20°32	26°22	2° 5	9°32	8°23	14°53	24°10	S 16
M17	8 19 35	5°54'22	29° 8	14°40	22°45	9°47	25°57	0°6	20°36	26°24	2° 5	9°30	8°20	14°59	24°11	M17
T 18	8 23 31	6°55'14	11°14	16° 4	23°43	9°35	25°58	0°13	20°39	26°26	2° 5	9°D29	8°17	15° 6	24°12	T 18
W19	8 27 28	7°56'05	23° 8	17°29	24°41	9°23	25°59	0°20	20°42	26°28	2° 5	9°30	8°14	15°13	24°14	W19
T 20	8 31 25	8°56'54	4°16	18°55	25°38	9°10	26° 1	0°27	20°46	26°29	2° 6	9°R31	8°11	15°19	24°15	T 20
F 21	8 35 21	9°57'42	16°42	20°22	26°34	8°56	26° 3	0°34	20°49	26°31	2° 6	9°31	8° 7	15°26	24°17	F 21
S 22	8 39 18	10°58'28	28°32	21°50	27°30	8°41	26° 5	0°41	20°53	26°33	2° 6	9°29	8° 4	15°33	24°19	S 22
S 23	8 43 14	11°59'13	10°30	23°19	28°25	8°26	26° 7	0°48	20°56	26°35	2° 6	9°24	8° 1	15°39	24°20	S 23
M24	8 47 11	12°59'57	22°38	24°49	29°20	8°10	26°10	0°55	20°59	26°36	2° 6	9°17	7°58	15°46	24°22	M24
T 25	8 51 7	14° 0'39	4°18	26°19	0°14	7°53	26°12	1° 2	21° 3	26°38	2° 6	9° 7	7°55	15°53	24°24	T 25
W26	8 55 4	15° 1'19	17°32	27°51	1° 7	7°36	26°15	1° 9	21° 6	26°40	2°R 6	8°56	7°51	15°59	24°25	W26
T 27	8 59 0	16° 1'58	0°20	29°23	2° 0	7°17	26°18	1°16	21° 9	26°41	2° 6	8°43	7°48	16° 6	24°27	T 27
F 28	9 2 57	17° 2'36	13°21	0°56	2°51	6°59	26°21	1°23	21°13	26°43	2° 6	8°31	7°45	16°13	24°29	F 28
S 29	9 6 54	18° 3'12	26°33	2°30	3°43	6°40	26°25	1°30	21°16	26°45	2° 6	8°21	7°42	16°19	24°31	S 29
S 30	9 10 50	19° 3'47	9°57	4° 5	4°33	6°20	26°28	1°37	21°19	26°46	2° 6	8°13	7°39	16°26	24°33	S 30
M31	9 14 47	20°4'21	23°31	5°41	5°Y22	5°29	26°32	1°44	21°22	26°48	2°R 6	8°7	7°36	16°32	24°Y35	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	lat
S 1	22s 4	0n36	5s 9	21s37	1n49	9s55	0s44	10n44	3n35	18n35	0s46	20s58	0s24	22s31	0s27	22s17	1n10	3n14	16n24	22s 5	21s53	22n 5	9n10	0s10
S 2	21 55	4s20	4 53	21 48	1 40	9 26	0 39	10 45	3 37	18 35	0 46	20 56	0 24	22 30	0 27	22 17	1 10	3 15	16 24	22 4	21 53	22 5	9 10	0 10
M 3	21 45	9 9	4 22	21 59	1 30	8 57	0 34	10 47	3 39	18 34	0 46	20 55	0 24	22 30	0 27	22 17	1 10	3 15	16 25	22 4	21 52	22 5	9 10	0 10
T 4	21 35	13 38	3 35	22 9	1 20	8 29	0 29	10 49	3 41	18 34	0 45	20 54	0 24	22 29	0 27	22 17	1 10	3 15	16 25	22 4	21 52	22 5	9 10	0 10
W 5	21 25	17 29	2 35	22 20	1 11	8 0	0 23	10 51	3 43	18 34	0 45	20 52	0 24	22 29	0 27	22 17	1 10	3 15	16 26	22 4	21 51	22 5	9 11	0 10
T 6	21 14	20 23	1 23	22 29	1 1	7 31	0 18	10 54	3 45	18 34	0 45	20 51	0 24	22 28	0 27	22 17	1 10	3 15	16 26	22 4	21 51	22 5	9 11	0 10
F 7	21 3	22 1	0 5	22 38	0 52	7 2	0 12	10 57	3 47	18 34	0 45	20 49	0 24	22 27	0 27	22 17	1 10	3 16	16 27	22 4	21 50	22 5	9 11	0 10
S 8	20 52	22 9	1n14	22 46	0 43	6 32	0 7	11 0	3 48	18 34	0 44	20 48	0 24	22 27	0 27	22 17	1 10	3 16	16 27	22 4	21 50	22 5	9 11	0 10
S 9	20 40	20 44	2 28	22 53	0 33	6 3	0 1	11 4	3 50	18 34	0 44	20 47	0 24	22 26	0 27	22 17	1 10	3 16	16 28	22 3	21 49	22 5	9 11	0 10
M10	20 27	17 53	3 33	22 59	0 24	5 34	0n 5	11 7	3 52	18 34	0 44	20 45	0 24	22 26	0 27	22 17	1 10	3 17	16 28	22 3	21 49	22 5	9 12	0 10
T 11	20 15	13 56	4 22	23 5	0 16	5 4	0 11	11 12	3 54	18 35	0 44	20 44	0 24	22 25	0 27	22 17	1 10	3 17	16 29	22 2	21 48	22 4	9 12	0 10
W12	20 2	9 14	4 54	23 9	0 7	4 35	0 17	11 16	3 56	18 35	0 43	20 42	0 24	22 25	0 27	22 17	1 10	3 17	16 29	22 0	21 48	22 4	9 12	0 10
T 13	19 48	4 9	5 7	23 12	0s 1	4 5	0 23	11 21	3 58	18 35	0 43	20 41	0 24	22 24	0 27	22 17	1 10	3 18	16 30	21 59	21 47	22 4	9 13	0 10
F 14	19 34	0n57	5 1	23 14	0 10	3 36	0 30	11 25	4 0	18 36	0 43	20 40	0 24	22 24	0 27	22 17	1 10	3 18	16 30	21 58	21 47	22 4	9 13	0 11
S 15	19 20	5 52	4 40	23 16	0 18	3 7	0 36	11 31	4 1	18 36	0 43	20 38	0 25	22 23	0 27	22 18	1 10	3 18	16 31	21 57	21 46	22 4	9 13	0 11
S 16	19 6	10 22	4 5	23 16	0 25	2 37	0 43	11 36	4 3	18 36	0 42	20 37	0 25	22 23	0 27	22 18	1 10	3 19	16 31	21 56	21 46	22 4	9 14	0 11
M17	18 51	14 18	3 20	23 14	0 33	2 8	0 49	11 42	4 5	18 37	0 42	20 35	0 25	22 22	0 27	22 18	1 10	3 19	16 32	21 56	21 45	22 4	9 14	0 11
T 18	18 36	17 33	2 26	23 12	0 40	1 39	0 56	11 48	4 6	18 37	0 42	20 34	0 25	22 22	0 27	22 18	1 10	3 20	16 33	21 56	21 45	22 4	9 15	0 11
W19	18 20	20 0	1 27	23 8	0 47	1 9	1 3	11 54	4 8	18 38	0 42	20 32	0 25	22 21	0 27	22 18	1 10	3 20	16 33	21 56	21 44	22 3	9 15	0 11
T 20	18 4	21 35	0 25	23 3	0 54	0 40	1 10	12 0	4 10	18 39	0 41	20 31	0 25	22 21	0 27	22 18	1 10	3 20	16 34	21 56	21 44	22 3	9 16	0 11
F 21	17 48	22 12	0s38	22 57	1 1	0 11	1 17	12 7	4 11	18 39	0 41	20 29	0 25	22 20	0 27	22 18	1 10	3 21	16 34	21 56	21 43	22 3	9 16	0 11
S 22	17 31	21 50	1 40	22 50	1 7	0n18	1 25	12 14	4 12	18 40	0 41	20 28	0 25	22 20	0 27	22 18	1 10	3 21	16 35	21 56	21 43	22 3	9 17	0 11
S 23	17 15	20 28	2 38	22 41	1 13	0 47	1 32	12 21	4 14	18 41	0 41	20 26	0 25	22 19	0 27	22 18	1 10	3 22	16 35	21 55	21 42	22 3	9 17	0 11
M24	16 58	18 10	3 29	22 31	1 19	1 15	1 39	12 28	4 15	18 42	0 40	20 25	0 25	22 19	0 27	22 18	1 10	3 22	16 36	21 54	21 42	22 3	9 18	0 11
T 25	16 40	15 1	4 11	22 19	1 24	1 44	1 47	12 36	4 16	18 42	0 40	20 24	0 25	22 18	0 27	22 18	1 10	3 23	16 36	21 53	21 41	22 3	9 18	0 11
W26	16 22	11 8	4 42	22 7	1 29	2 12	1 55	12 43	4 17	18 43	0 40	20 22	0 25	22 18	0 28	22 18	1 10	3 23	16 37	21 51	21 41	22 2	9 19	0 11
T 27	16 4	6 43	4 59	21 52	1 34	2 40	2 3	12 51	4 19	18 44	0 40	20 21	0 25	22 17	0 28	22 18	1 10	3 24	16 37	21 49	21 40	22 2	9 20	0 12
F 28	15 46	1 56	5 1	21 37	1 39	3 8	2 10	12 59	4 20	18 45	0 39	20 19	0 26	22 17	0 28	22 18	1 10	3 24	16 38	21 47	21 40	22 2	9 20	0 12
S 29	15 28	3s 1	4 47	21 20	1 43	4 36	2 19	13 7	4 20	18 46	0 39	20 18	0 26	22 16	0 28	22 18	1 10	3 25	16 38	21 45	21 39	22 2	9 21	0 12
S 30	15 9	7 54	4 18	21 1	1 47	4 3	2 27	13 15	4 21	18 47	0 39	20 16	0 26	22 16	0 28	22 18	1 10	3 25	16 39	21 44	21 39	22 2	9 22	0 12
M31	14s50	12s27	3s33	20s41	1s51	4n30	2n35	13n24	4n22	18n48	0s39	20s15	0s26	22s15	0s28	22s18	1n10	3n26	16n39	21s43	21s38	22n 1	9n22	0s12

ASTRODIENST EPHEMERIS for the year 1491

geocentric

FEBRUARY 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 18 43	21° 45' 4"	7° 14'	7° 17'	6° 11'	5° 38'	26° 36'	1° 51'	21° 26'	26° 49'	2° 5'	8° 5'	7° 32'	16° 39'	24° 37'	T 1
W 2	9 22 40	22° 5' 25"	21° 8'	8° 55'	6° 58'	5° 17'	26° 40'	1° 58'	21° 29'	26° 51'	2° 5'	8° 4'	7° 29'	16° 46'	24° 40'	W 2
T 3	9 26 36	23° 5' 55"	5° 11'	10° 33'	7° 45'	4° 55'	26° 44'	2° 5'	21° 32'	26° 52'	2° 5'	8° 4'	7° 26'	16° 52'	24° 42'	T 3
F 4	9 30 33	24° 6' 24"	19° 24'	12° 13'	8° 31'	4° 33'	26° 49'	2° 12'	21° 35'	26° 54'	2° 5'	8° 4'	7° 23'	16° 59'	24° 44'	F 4
S 5	9 34 29	25° 6' 52"	3° 45'	13° 53'	9° 16'	4° 11'	26° 54'	2° 18'	21° 38'	26° 55'	2° 4'	8° 2'	7° 20'	17° 6'	24° 46'	S 5
S 6	9 38 26	26° 7' 18"	18° 11'	15° 34'	10° 0'	3° 48'	26° 58'	2° 25'	21° 41'	26° 56'	2° 4'	7° 57'	7° 16'	17° 12'	24° 49'	S 6
M 7	9 42 23	27° 7' 42"	2° 38'	17° 17'	10° 43'	3° 25'	27° 3'	2° 32'	21° 44'	26° 58'	2° 3'	7° 49'	7° 13'	17° 19'	24° 51'	M 7
T 8	9 46 19	28° 8' 05"	17° 0'	19° 0'	11° 24'	3° 1'	27° 9'	2° 39'	21° 47'	26° 59'	2° 3'	7° 39'	7° 10'	17° 26'	24° 54'	T 8
W 9	9 50 16	29° 8' 27"	1° 11'	20° 44'	12° 5'	2° 38'	27° 14'	2° 45'	21° 50'	27° 0'	2° 2'	7° 27'	7° 7'	17° 32'	24° 56'	W 9
T 10	9 54 12	0° 8' 46"	15° 5'	22° 29'	12° 44'	2° 14'	27° 19'	2° 52'	21° 53'	27° 2'	2° 2'	7° 14'	7° 4'	17° 39'	24° 59'	T 10
F 11	9 58 9	1° 9' 04"	28° 37'	24° 15'	13° 22'	1° 50'	27° 25'	2° 59'	21° 56'	27° 3'	2° 1'	7° 2'	7° 1'	17° 46'	25° 1'	F 11
S 12	10 2 5	2° 9' 19"	11° 47'	26° 3'	13° 59'	1° 26'	27° 31'	3° 5'	21° 59'	27° 4'	2° 1'	6° 52'	6° 57'	17° 52'	25° 4'	S 12
S 13	10 6 2	3° 9' 33"	24° 33'	27° 51'	14° 34'	1° 2'	27° 37'	3° 12'	22° 2'	27° 5'	2° 0'	6° 45'	6° 54'	17° 59'	25° 7'	S 13
M14	10 9 58	4° 9' 45"	6° 38'	29° 40'	15° 9'	0° 39'	27° 43'	3° 18'	22° 5'	27° 6'	2° 0'	6° 40'	6° 51'	18° 5'	25° 9'	M14
T 15	10 13 55	5° 9' 54"	19° 7'	1° 30'	15° 41'	0° 15'	27° 50'	3° 25'	22° 8'	27° 8'	1° 59'	6° 38'	6° 48'	18° 12'	25° 12'	T 15
W16	10 17 52	6° 10' 02"	1° 2'	3° 22'	16° 12'	29° 51'	27° 56'	3° 31'	22° 11'	27° 9'	1° 58'	6° 37'	6° 45'	18° 19'	25° 15'	W16
T 17	10 21 48	7° 10' 07"	12° 51'	5° 14'	16° 42'	29° 28'	28° 3'	3° 37'	22° 13'	27° 10'	1° 57'	6° 37'	6° 42'	18° 25'	25° 18'	T 17
F 18	10 25 45	8° 10' 11"	24° 39'	7° 7'	17° 10'	29° 5'	28° 10'	3° 44'	22° 16'	27° 11'	1° 57'	6° 36'	6° 38'	18° 32'	25° 21'	F 18
S 19	10 29 41	9° 10' 12"	6° 31'	9° 2'	17° 36'	28° 42'	28° 17'	3° 50'	22° 19'	27° 12'	1° 56'	6° 34'	6° 35'	18° 39'	25° 24'	S 19
S 20	10 33 38	10° 10' 11"	18° 32'	10° 57'	18° 0'	28° 20'	28° 24'	3° 56'	22° 21'	27° 13'	1° 55'	6° 29'	6° 32'	18° 45'	25° 27'	S 20
M21	10 37 34	11° 10' 08"	0° 46'	12° 53'	18° 23'	27° 57'	28° 31'	4° 2'	22° 24'	27° 14'	1° 54'	6° 22'	6° 29'	18° 52'	25° 30'	M21
T 22	10 41 31	12° 10' 02"	13° 17'	14° 49'	18° 43'	27° 36'	28° 39'	4° 9'	22° 27'	27° 15'	1° 53'	6° 12'	6° 26'	18° 59'	25° 33'	T 22
W23	10 45 27	13° 9' 55"	26° 6'	16° 47'	19° 2'	27° 14'	28° 46'	4° 15'	22° 29'	27° 16'	1° 52'	6° 0'	6° 22'	19° 5'	25° 36'	W23
T 24	10 49 24	14° 9' 45"	9° 12'	18° 45'	19° 19'	26° 53'	28° 54'	4° 21'	22° 32'	27° 16'	1° 51'	5° 47'	6° 19'	19° 12'	25° 39'	T 24
F 25	10 53 21	15° 9' 34"	22° 35'	20° 43'	19° 33'	26° 33'	29° 2'	4° 27'	22° 34'	27° 17'	1° 50'	5° 34'	6° 16'	19° 19'	25° 42'	F 25
S 26	10 57 17	16° 9' 20"	6° 13'	22° 42'	19° 46'	26° 13'	29° 10'	4° 33'	22° 37'	27° 18'	1° 49'	5° 23'	6° 13'	19° 25'	25° 45'	S 26
S 27	11 1 14	17° 9' 05"	20° 1'	24° 41'	19° 56'	25° 54'	29° 18'	4° 39'	22° 39'	27° 19'	1° 48'	5° 14'	6° 10'	19° 32'	25° 49'	S 27
M28	11 5 10	18° 8' 48"	3° 57'	26° 39'	20° 4'	25° 35'	29° 26'	4° 44'	22° 41'	27° 19'	1° 47'	5° 8'	6° 7'	19° 39'	25° 52'	M28

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	14s31	16s25	2s36	20s20	1s54	4n57	2n43	13n32	4n23	18n50	0s38	20s13	0s26	22s15	0s28	22s18
W 2	14 11	19 31	1 29	19 57	1 57	5 24	2 52	13 41	4 23	18 51	0 38	20 12	0 26	22 14	0 28	22 18
T 3	13 51	21 28	0 15	19 33	1 59	5 50	3 0	13 49	4 24	18 52	0 38	20 10	0 26	22 14	0 28	22 18
F 4	13 31	22 5	1n 0	19 8	2 2	6 16	3 9	13 58	4 24	18 53	0 38	20 9	0 26	22 13	0 28	22 18
S 5	13 11	21 15	2 12	18 40	2 3	6 42	3 17	14 6	4 24	18 55	0 37	20 7	0 26	22 13	0 28	22 18
S 6	12 51	19 2	3 15	18 12	2 5	7 7	3 26	14 15	4 25	18 56	0 37	20 6	0 26	22 12	0 28	22 18
M 7	12 30	15 37	4 7	17 42	2 6	7 32	3 35	14 23	4 25	18 57	0 37	20 5	0 26	22 12	0 28	22 18
T 8	12 9	11 18	4 42	17 10	2 7	7 57	3 44	14 32	4 25	18 59	0 37	20 3	0 26	22 12	0 28	22 18
W 9	11 48	6 25	4 59	16 37	2 7	8 21	3 53	14 40	4 25	19 0	0 37	20 2	0 27	22 11	0 28	22 18
T 10	11 27	1 19	4 58	16 3	2 7	8 45	4 1	14 49	4 24	19 2	0 36	20 0	0 27	22 11	0 28	22 18
F 11	11 6	3n44	4 40	15 27	2 6	9 8	4 11	14 57	4 24	19 3	0 36	19 59	0 27	22 10	0 28	22 18
S 12	10 44	8 28	4 7	14 50	2 5	9 31	4 20	15 5	4 24	19 5	0 36	19 57	0 27	22 10	0 28	22 18
S 13	10 22	12 41	3 23	14 11	2 3	9 53	4 29	15 13	4 23	19 6	0 36	19 56	0 27	22 9	0 28	22 18
M14	10 1	16 14	2 30	13 30	2 1	10 15	4 38	15 21	4 22	19 8	0 35	19 55	0 27	22 9	0 28	22 18
T 15	9 39	19 1	1 31	12 49	1 58	10 36	4 47	15 29	4 21	19 10	0 35	19 53	0 27	22 8	0 28	22 18
W16	9 16	20 54	0 30	12 5	1 55	10 56	4 56	15 37	4 21	19 11	0 35	19 52	0 27	22 8	0 28	22 18
T 17	8 54	21 51	0s33	11 21	1 52	11 16	5 5	15 44	4 20	19 13	0 35	19 50	0 27	22 8	0 28	22 18
F 18	8 32	21 50	1 34	10 35	1 47	11 36	5 15	15 51	4 19	19 15	0 35	19 49	0 27	22 7	0 28	22 18
S 19	8 9	20 49	2 31	9 47	1 43	11 54	5 24	15 58	4 17	19 16	0 34	19 48	0 27	22 7	0 28	22 18
S 20	7 47	18 52	3 23	8 59	1 37	12 12	5 33	16 5	4 16	19 18	0 34	19 46	0 28	22 6	0 28	22 18
M21	7 24	16 3	4 5	8 9	1 31	12 29	5 42	16 12	4 15	19 20	0 34	19 45	0 28	22 6	0 28	22 18
T 22	7 1	12 27	4 37	7 18	1 25	12 45	5 51	16 18	4 13	19 22	0 34	19 43	0 28	22 5	0 28	22 18
W23	6 38	8 12	4 56	6 26	1 18	13 1	6 0	16 24	4 12	19 24	0 34	19 42	0 28	22 5	0 28	22 18
T 24	6 15	3 30	5 0	5 33	1 10	13 15	6 9	16 30	4 10	19 26	0 33	19 41	0 28	22 5	0 28	22 18
F 25	5 52	1s27	4 48	4 38	1 2	13 29	6 17	16 35	4 8	19 27	0 33	19 39	0 28	22 4	0 28	22 18
S 26	5 29	6 26	4 19	3 43	0 53	13 42	6 26	16 40	4 7	19 29	0 33	19 38	0 28	22 4	0 28	22 18
S 27	5 5	11 9	3 34	2 48	0 44	13 54	6 34	16 45	4 5	19 31	0 33	19 37	0 28	22 4	0 28	22 18
M28	4s42	15s20	2s37	1s52	0s34	14n 4	6n43	16n50	4n 3	19n33	0s33	19s35	0s28	22s 3	0s28	22s18

Julian Day Number = 2265676.5, Delta T = 05m10s

Ecliptic obliquity = 23°30'16", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°38'23", Lahiri = 16°45'24" Julian Calendar 1 Feb. 1491 == Greg. Calendar 10 Feb. 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

MARCH 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 9 7	19°8'29"	17°18'59"	28°37'37"	20°10'10"	25°17'17"	29°35'35"	4°50'50"	22°34'34"	27°20'20"	1°46'46"	5°R 5	6°3'3'	19°45'45"	25°55'55"	T 1
W 2	11 13 3	20°8'08"	2°3'3'	0°Y34	20°13'13"	24°59'59"	29°43'43"	4°56'56"	22°46'46"	27°21'21"	1°45'45"	5°D 4	6°0'0'	19°52'52"	25°58'58"	W 2
T 3	11 17 0	21°7'46"	16°8'8"	2°30'30"	20°14'14"	24°42'42"	29°52'52"	5°2'2"	22°48'48"	27°21'21"	1°44'44"	5°R 4	5°57'57"	19°59'59"	26°2'2"	T 3
F 4	11 20 56	22°7'22"	0°3'14	4°25'25"	20°13'13"	24°26'26"	0°II 1	5°7'7"	22°51'51"	27°22'22"	1°43'43"	5°3'4'	5°54'54"	20°5'5"	26°5'5"	F 4
S 5	11 24 53	23°6'56"	14°20'20"	6°18'18"	20°9'9"	24°11'11"	0°9'9"	5°13'13"	22°53'53"	27°23'23"	1°41'41"	5°2'2"	5°51'51"	20°12'12"	26°8'8"	S 5
S 6	11 28 50	24°6'28"	28°25'25"	8°8'8"	20°3'3"	23°56'56"	0°19'19"	5°18'18"	22°55'55"	27°23'23"	1°40'40"	4°58'58"	5°48'48"	20°18'18"	26°12'12"	S 6
M 7	11 32 46	25°5'59"	12°26'26"	9°56'56"	19°54'54"	23°42'42"	0°28'28"	5°24'24"	22°57'57"	27°24'24"	1°39'39"	4°51'51"	5°44'44"	20°25'25"	26°15'15"	M 7
T 8	11 36 43	26°5'28"	26°20'20"	11°40'40"	19°43'43"	23°28'28"	0°37'37"	5°29'29"	22°59'59"	27°24'24"	1°38'38"	4°42'42"	5°41'41"	20°32'32"	26°19'19"	T 8
W 9	11 40 39	27°4'54"	10°3'5'	13°21'21"	19°29'29"	23°16'16"	0°46'46"	5°35'35"	23°1'1'	27°24'24"	1°36'36"	4°31'31"	5°38'38"	20°38'38"	26°22'22"	W 9
T 10	11 44 36	28°4'19"	23°36'36"	14°57'57"	19°13'13"	23°4'4"	0°56'56"	5°40'40"	23°3'3"	27°25'25"	1°35'35"	4°20'20"	5°35'35"	20°45'45"	26°26'26"	T 10
F 11	11 48 32	29°3'42"	6°Y51	16°30'30"	18°55'55"	22°53'53"	1°6'6"	5°45'45"	23°5'5"	27°25'25"	1°34'34"	4°9'9"	5°32'32"	20°52'52"	26°29'29"	F 11
S 12	11 52 29	0°Y3'02"	19°48'48"	17°57'57"	18°34'34"	22°43'43"	1°15'15"	5°50'50"	23°7'7"	27°25'25"	1°32'32"	4°0'0'	5°28'28"	20°58'58"	26°33'33"	S 12
S 13	11 56 25	1°2'21"	2°3'26"	19°19'19"	18°10'10"	22°33'33"	1°25'25"	5°55'55"	23°9'9"	27°26'26"	1°31'31"	3°53'53"	5°25'25"	21°5'5"	26°37'37"	S 13
M14	12 0 22	2°1'37"	14°48'48"	20°36'36"	17°45'45"	22°25'25"	1°35'35"	6°0'0'	23°10'10"	27°26'26"	1°30'30"	3°48'48"	5°22'22"	21°12'12"	26°40'40"	M14
T 15	12 4 18	3°0'51"	26°54'54"	21°47'47"	17°18'18"	22°17'17"	1°45'45"	6°5'5"	23°12'12"	27°26'26"	1°28'28"	3°46'46"	5°19'19"	21°18'18"	26°44'44"	T 15
W16	12 8 15	4°0'03"	8°II50	22°51'51"	16°48'48"	22°10'10"	1°55'55"	6°10'10"	23°14'14"	27°26'26"	1°27'27"	3°D46	5°16'16"	21°25'25"	26°48'48"	W16
T 17	12 12 12	4°59'13"	20°40'40"	23°50'50"	16°17'17"	22°3'3"	2°6'6"	6°15'15"	23°16'16"	27°27'27"	1°25'25"	3°47'47"	5°13'13"	21°32'32"	26°51'51"	T 17
F 18	12 16 8	5°58'20"	2°28'28"	24°42'42"	15°44'44"	21°58'58"	2°16'16"	6°20'20"	23°17'17"	27°27'27"	1°24'24"	3°R48	5°9'9"	21°38'38"	26°55'55"	F 18
S 19	12 20 5	6°57'25"	14°21'21"	25°27'27"	15°10'10"	21°53'53"	2°27'27"	6°24'24"	23°19'19"	27°27'27"	1°22'22"	3°48'48"	5°6'6"	21°45'45"	26°59'59"	S 19
S 20	12 24 1	7°56'27"	26°23'23"	26°5'5'	14°35'35"	21°49'49"	2°37'37"	6°29'29"	23°20'20"	27°27'27"	1°21'21"	3°46'46"	5°3'3"	21°52'52"	27°2'2"	S 20
M21	12 27 58	8°55'28"	8°II40	26°37'37"	13°58'58"	21°46'46"	2°48'48"	6°33'33"	23°22'22"	27°R27	1°19'19"	3°42'42"	5°0'0'	21°58'58"	27°6'6"	M21
T 22	12 31 54	9°54'26"	21°15'15"	27°2'2"	13°21'21"	21°44'44"	2°59'59"	6°38'38"	23°23'23"	27°27'27"	1°18'18"	3°35'35"	4°57'57"	22°5'5"	27°10'10"	T 22
W23	12 35 51	10°53'21"	4°II11	27°19'19"	12°43'43"	21°42'42"	3°9'9"	6°42'42"	23°25'25"	27°27'27"	1°16'16"	3°28'28"	4°53'53"	22°12'12"	27°14'14"	W23
T 24	12 39 47	11°52'14"	17°29'29"	27°30'30"	12°5'5"	21°41'41"	3°20'20"	6°47'47"	23°26'26"	27°27'27"	1°15'15"	3°19'19"	4°50'50"	22°18'18"	27°18'18"	T 24
F 25	12 43 44	12°51'06"	1°II10	27°R35	11°27'27"	21°D41	3°31'31"	6°51'51"	23°27'27"	27°27'27"	1°13'13"	3°10'10"	4°47'47"	22°25'25"	27°21'21"	F 25
S 26	12 47 41	13°49'55"	15°9'9"	27°32'32"	10°50'50"	21°42'42"	3°43'43"	6°55'55"	23°28'28"	27°26'26"	1°11'11"	3°3'3"	4°44'44"	22°31'31"	27°25'25"	S 26
S 27	12 51 37	14°48'42"	29°22'22"	27°24'24"	10°12'12"	21°43'43"	3°54'54"	6°59'59"	23°30'30"	27°26'26"	1°10'10"	2°57'57"	4°41'41"	22°38'38"	27°29'29"	S 27
M28	12 55 34	15°47'27"	13°II45	27°10'10"	9°36'36"	21°45'45"	4°5'5"	7°3'3"	23°31'31"	27°26'26"	1°8'8"	2°53'53"	4°38'38"	22°45'45"	27°33'33"	M28
T 29	12 59 30	16°46'11"	28°11'11"	26°50'50"	9°1'1"	21°48'48"	4°17'17"	7°7'7"	23°32'32"	27°26'26"	1°7'7"	2°D51	4°34'34"	22°51'51"	27°37'37"	T 29
W30	13 3 27	17°44'52"	12°37'37"	26°25'25"	8°26'26"	21°51'51"	4°28'28"	7°11'11"	23°33'33"	27°26'26"	1°5'5"	2°52'52"	4°31'31"	22°58'58"	27°41'41"	W30
T 31	13 7 23	18°Y43'33"	26°3'58"	25°Y55	7°Y53	21°II55	4°II40	7°3'15"	23°34'34"	27°25'25"	1°II 3	2°3'53"	4°3'28"	23°II 5	27°Y45	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	4s19	18s40	1s29	0s55	0s24	14n14	6n51	16n54	4n 1	19n35	0s32	19s34	0s29	22s 3	0s28	22s18
W 2	3 55	20 53	0 16	0n 2	0 13	14 22	6 58	16 59	3 59	19 37	0 32	19 33	0 29	22 2	0 28	22 18
T 3	3 32	21 49	0n58	0 58	0 2	14 30	7 6	17 2	3 57	19 39	0 32	19 32	0 29	22 2	0 28	22 18
F 4	3 8	21 21	2 9	1 54	0n10	14 36	7 13	17 6	3 55	19 41	0 32	19 30	0 29	22 2	0 28	22 18
S 5	2 44	19 32	3 12	2 50	0 22	14 40	7 20	17 9	3 53	19 44	0 32	19 29	0 29	22 1	0 28	22 18
S 6	2 21	16 33	4 4	3 45	0 34	14 44	7 26	17 12	3 50	19 46	0 31	19 28	0 29	22 1	0 28	22 18
M 7	1 57	12 38	4 40	4 39	0 46	14 46	7 32	17 14	3 48	19 48	0 31	19 27	0 29	22 1	0 28	22 18
T 8	1 33	8 5	4 59	5 31	0 58	14 47	7 38	17 17	3 46	19 50	0 31	19 25	0 29	22 0	0 28	22 18
W 9	1 10	3 10	5 1	6 22	1 11	14 46	7 43	17 19	3 43	19 52	0 31	19 24	0 29	22 0	0 28	22 18
T 10	0 46	1n49	4 46	7 11	1 23	14 44	7 47	17 20	3 41	19 54	0 31	19 23	0 29	22 0	0 28	22 18
F 11	0 22	6 38	4 15	7 58	1 35	14 40	7 51	17 22	3 39	19 56	0 30	19 22	0 30	22 0	0 29	22 18
S 12	0n 1	11 2	3 32	8 43	1 47	14 35	7 54	17 23	3 36	19 58	0 30	19 21	0 30	21 59	0 29	22 18
S 13	0 25	14 50	2 39	9 25	1 59	14 28	7 56	17 24	3 34	20 1	0 30	19 19	0 30	21 59	0 29	22 18
M14	0 48	17 54	1 40	10 4	2 10	14 20	7 58	17 24	3 31	20 3	0 30	19 18	0 30	21 59	0 29	22 18
T 15	1 12	20 7	0 37	10 40	2 20	14 10	7 59	17 24	3 29	20 5	0 30	19 17	0 30	21 58	0 29	22 18
W16	1 36	21 23	0s27	11 14	2 30	13 59	7 59	17 24	3 26	20 7	0 30	19 16	0 30	21 58	0 29	22 17
T 17	1 59	21 41	1 29	11 44	2 39	13 46	7 59	17 24	3 24	20 9	0 29	19 15	0 30	21 58	0 29	22 17
F 18	2 23	21 1	2 28	12 10	2 47	13 32	7 57	17 24	3 21	20 12	0 29	19 14	0 30	21 58	0 29	22 17
S 19	2 46	19 25	3 20	12 34	2 54	13 17	7 55	17 23	3 19	20 14	0 29	19 13	0 30	21 57	0 29	22 17
S 20	3 9	16 56	4 4	12 54	3 0	13 0	7 52	17 22	3 16	20 16	0 29	19 12	0 31	21 57	0 29	22 17
M21	3 33	13 40	4 38	13 10	3 5	12 42	7 48	17 20	3 14	20 18	0 29	19 11	0 31	21 57	0 29	22 17
T 22	3 56	9 43	5 0	13 22	3 9	12 22	7 43	17 19	3 11	20 21	0 29	19 10	0 31	21 57	0 29	22 17
W23	4 19	5 14	5 7	13 31	3 11	12 2	7 37	17 17	3 8	20 23	0 28	19 9	0 31	21 57	0 29	22 17
T 24	4 42	0 23	4 57	13 36	3 13	11 41	7 30	17 15	3 6	20 25	0 28	19 8	0 31	21 56	0 29	22 17
F 25	5 5	4s36	4 31	13 38	3 12	11 19	7 22	17 12	3 3	20 27	0 28	19 7	0 31	21 56	0 29	22 17
S 26	5 28	9 29	3 48	13 35	3 11	10 56	7 14	17 10	3 1	20 30	0 28	19 6	0 31	21 56	0 29	22 17
S 27	5 51	13 56	2 51	13 30	3 8	10 33	7 5	17 7	2 58	20 32	0 28	19 5	0 31	21 56	0 29	22 17
M28	6 14	17 37	1 41	13 20	3 3	10 10	6 55	17 4	2 56	20 34	0 28	19 4	0 32	21 56	0 29	22 17
T 29	6 36	20 13	0 25	13 7	2 57	9 46	6 44	17 1	2 54	20 36	0 27	19 3	0 32	21 56	0 29	22 17
W30	6 59	21 30	0n53	12 51	2 49	9 22	6 33	16 57	2 51	20 39	0 27	19 2	0 32	21 55	0 29	22 17
T 31	7n21	21s21	2n 7	12n32	2n40	8n58	6n22	16n54	2n49	20n41	0s27	19s 2	0s32	21s55	0s29	22s17

Julian Day Number = 2265704.5, Delta T = 05m10s

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

Ayanamsha: Fagan/Bradley = 17°38'27", Lahiri = 16°45'27" Julian Calendar 1 March 1491 == Greg. Calendar 10 March 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

APRIL 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	13 11 20	19°42'11	11°31'11	25°R22	7°R22	22°0 0	4°11'51	7°18'18	23°35'35	27°R25	1°R 2	2°54'54	4°25'25	23°11'11	27°48'48	F 1
S 2	13 15 16	20°40'48	25°16	24°45'45	6°53'53	22° 6	5° 3	7°22	23°36	27°25'25	1°0 0	2°R54	4°22	23°18	27°52	S 2
S 3	13 19 13	21°39'23	9°10'10	24° 6	6°25	22°12	5°15	7°25	23°37	27°24	0°58	2°53	4°19	23°25	27°56	S 3
M 4	13 23 10	22°37'56	22°53	23°25	6° 0	22°19	5°27	7°29	23°37	27°24	0°57	2°50	4°15	23°31	28° 0	M 4
T 5	13 27 6	23°36'28	6°24'24	22°43	5°36	22°26	5°38	7°32	23°38	27°23	0°55	2°45	4°12	23°38	28° 4	T 5
W 6	13 31 3	24°34'57	19°44	22° 1	5°15	22°34	5°50	7°35	23°39	27°23	0°53	2°39	4° 9	23°45	28° 8	W 6
T 7	13 34 59	25°33'26	2°50'50	21°20	4°56	22°43	6° 2	7°38	23°39	27°22	0°52	2°32	4° 6	23°51	28°12	T 7
F 8	13 38 56	26°31'52	15°42	20°40	4°40	22°52	6°15	7°42	23°40	27°22	0°50	2°26	4° 3	23°58	28°16	F 8
S 9	13 42 52	27°30'17	28°20	20° 1	4°26	23° 2	6°27	7°45	23°41	27°21	0°48	2°21	3°59	24° 5	28°20	S 9
S 10	13 46 49	28°28'39	10°8'45	19°26	4°15	23°12	6°39	7°47	23°41	27°20	0°47	2°18	3°56	24°11	28°24	S 10
M11	13 50 45	29°27'00	22°57	18°54	4° 5	23°23	6°51	7°50	23°42	27°20	0°45	2°16	3°53	24°18	28°28	M11
T 12	13 54 42	0°8'25'19	4°11'58	18°25	3°59	23°35	7° 4	7°53	23°42	27°19	0°43	2°D15	3°50	24°25	28°32	T 12
W13	13 58 38	1°23'36	16°52	18° 0	3°54	23°47	7°16	7°56	23°42	27°18	0°42	2°16	3°47	24°31	28°35	W13
T 14	14 2 35	2°21'52	28°40	17°39	3°D53	24° 0	7°29	7°58	23°43	27°18	0°40	2°18	3°44	24°38	28°39	T 14
F 15	14 6 32	3°20'05	10°29'29	17°23	3°53	24°13	7°41	8° 1	23°43	27°17	0°38	2°20	3°40	24°45	28°43	F 15
S 16	14 10 28	4°18'16	22°21	17°12	3°56	24°26	7°54	8° 3	23°43	27°16	0°36	2°21	3°37	24°51	28°47	S 16
S 17	14 14 25	5°16'25	4°22'23	17° 5	4° 1	24°41	8° 7	8° 5	23°43	27°15	0°35	2°R22	3°34	24°58	28°51	S 17
M18	14 18 21	6°14'32	16°39	17°D 3	4° 8	24°55	8°19	8° 7	23°43	27°15	0°33	2°21	3°31	25° 4	28°55	M18
T 19	14 22 18	7°12'37	29°13	17° 6	4°18	25°11	8°32	8° 9	23°R43	27°14	0°31	2°19	3°28	25°11	28°59	T 19
W20	14 26 14	8°10'40	12°19' 9	17°14	4°29	25°26	8°45	8°11	23°43	27°13	0°30	2°17	3°25	25°18	29° 3	W20
T 21	14 30 11	9° 8'41	25°30	17°26	4°43	25°42	8°58	8°13	23°43	27°12	0°28	2°14	3°21	25°24	29° 7	T 21
F 22	14 34 7	10° 6'41	9°17'17	17°43	4°58	25°59	9°11	8°15	23°43	27°11	0°26	2°11	3°18	25°31	29°11	F 22
S 23	14 38 4	11° 4'38	23°27	18° 4	5°16	26°16	9°24	8°17	23°43	27°10	0°25	2° 8	3°15	25°38	29°15	S 23
S 24	14 42 1	12° 2'34	7°11'57	18°30	5°35	26°34	9°37	8°18	23°43	27° 9	0°23	2° 6	3°12	25°44	29°18	S 24
M25	14 45 57	13° 0'28	22°41	19° 0	5°57	26°51	9°50	8°20	23°43	27° 8	0°21	2° 5	3° 9	25°51	29°22	M25
T 26	14 49 54	13°58'21	7°13'33	19°34	6°20	27°10	10° 3	8°21	23°42	27° 7	0°20	2°D 4	3° 5	25°58	29°26	T 26
W27	14 53 50	14°56'13	22°23	20°11	6°45	27°28	10°16	8°23	23°42	27° 6	0°18	2° 5	3° 2	26° 4	29°30	W27
T 28	14 57 47	15°54'03	7°3 6	20°53	7°11	27°48	10°29	8°24	23°41	27° 5	0°17	2° 6	2°59	26°11	29°34	T 28
F 29	15 1 43	16°51'52	21°37	21°38	7°39	28° 7	10°42	8°25	23°41	27° 4	0°15	2° 7	2°56	26°18	29°38	F 29
S 30	15 5 40	17°8'49'40	5°55'51	22°27'27	8°4 8	28°27	10°11'56	8°26	23°41	27°2 2	0°13'13	2°7 8	2°53'53	26°11'24	29°41	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	7n44	19s50	3n13	12n10	2n30	8n35	6n 9	16n50	2n46	20n43	0s27	19s 1	0s32	21s55	0s29	F 1
S 2	8 6	17 7	4 6	11 45	2 18	8 11	5 57	16 46	2 44	20 46	0 27	19 0	0 32	21 55	0 29	S 2
S 3	8 28	13 26	4 44	11 19	2 5	7 49	5 44	16 42	2 41	20 48	0 27	18 59	0 32	21 55	0 29	S 3
M 4	8 50	9 7	5 6	10 50	1 51	7 26	5 30	16 37	2 39	20 50	0 27	18 58	0 32	21 55	0 29	M 4
T 5	9 11	4 23	5 10	10 21	1 36	7 4	5 17	16 32	2 37	20 52	0 26	18 58	0 33	21 55	0 29	T 5
W 6	9 33	0n28	4 57	9 51	1 21	6 43	5 3	16 28	2 34	20 55	0 26	18 57	0 33	21 55	0 29	W 6
T 7	9 54	5 14	4 28	9 20	1 4	6 23	4 49	16 23	2 32	20 57	0 26	18 56	0 33	21 54	0 29	T 7
F 8	10 16	9 41	3 47	8 49	0 48	6 4	4 35	16 17	2 30	20 59	0 26	18 56	0 33	21 54	0 29	F 8
S 9	10 37	13 38	2 55	8 19	0 31	5 45	4 21	16 12	2 27	21 1	0 26	18 55	0 33	21 54	0 29	S 9
S 10	10 58	16 54	1 55	7 50	0 14	5 28	4 7	16 6	2 25	21 3	0 26	18 54	0 33	21 54	0 29	S 10
M11	11 18	19 23	0 51	7 22	0s 3	5 11	3 53	16 1	2 23	21 6	0 26	18 54	0 33	21 54	0 29	M11
T 12	11 39	20 56	0s15	6 56	0 20	4 56	3 39	15 55	2 21	21 8	0 25	18 53	0 33	21 54	0 30	T 12
W13	11 59	21 32	1 19	6 31	0 36	4 42	3 25	15 48	2 19	21 10	0 25	18 53	0 34	21 54	0 30	W13
T 14	12 20	21 10	2 20	6 9	0 52	4 28	3 12	15 42	2 16	21 12	0 25	18 52	0 34	21 54	0 30	T 14
F 15	12 40	19 51	3 15	5 49	1 7	4 16	2 58	15 36	2 14	21 14	0 25	18 52	0 34	21 54	0 30	F 15
S 16	12 59	17 40	4 1	5 31	1 22	4 5	2 45	15 29	2 12	21 17	0 25	18 51	0 34	21 54	0 30	S 16
S 17	13 19	14 43	4 38	5 16	1 35	3 55	2 32	15 22	2 10	21 19	0 25	18 51	0 34	21 54	0 30	S 17
M18	13 38	11 4	5 3	5 3	1 48	3 46	2 19	15 15	2 8	21 21	0 25	18 50	0 34	21 54	0 30	M18
T 19	13 57	6 52	5 14	4 53	2 0	3 39	2 6	15 8	2 6	21 23	0 24	18 50	0 34	21 54	0 30	T 19
W20	14 16	2 15	5 10	4 46	2 11	3 32	1 54	15 1	2 4	21 25	0 24	18 49	0 35	21 54	0 30	W20
T 21	14 35	2s38	4 49	4 41	2 22	3 26	1 42	14 54	2 2	21 27	0 24	18 49	0 35	21 54	0 30	T 21
F 22	14 53	7 32	4 11	4 38	2 31	3 22	1 30	14 46	2 0	21 29	0 24	18 49	0 35	21 54	0 30	F 22
S 23	15 12	12 11	3 17	4 39	2 40	3 18	1 19	14 38	1 58	21 32	0 24	18 48	0 35	21 54	0 30	S 23
S 24	15 29	16 14	2 9	4 41	2 47	3 16	1 8	14 31	1 56	21 34	0 24	18 48	0 35	21 54	0 30	S 24
M25	15 47	19 20	0 52	4 46	2 54	3 14	0 57	14 23	1 54	21 36	0 24	18 48	0 35	21 55	0 30	M25
T 26	16 5	21 8	0n30	4 54	3 0	3 14	0 46	14 15	1 52	21 38	0 24	18 48	0 35	21 55	0 30	T 26
W27	16 22	21 27	1 50	5 3	3 5	3 14	0 36	14 6	1 50	21 40	0 23	18 47	0 36	21 55	0 30	W27
T 28	16 39	20 17	3 2	5 15	3 9	3 15	0 26	13 58	1 48	21 42	0 23	18 47	0 36	21 55	0 30	T 28
F 29	16 55	17 48	4 1	5 29	3 13	3 17	0 16	13 49	1 46	21 44	0 23	18 47	0 36	21 55	0 30	F 29
S 30	17n12	14s16	4n44	5n44	3s15	3n20	0n 7	13n41	1n45	21n46	0s23	18s47	0s36	21s55	0s30	S 30

Julian Day Number = 2265735.5, Delta T = 05m10s

Ecliptic obliquity = 23°30'16, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°38'31, Lahiri = 16°45'32 Julian Calendar 1 Apr. 1491 == Greg. Calendar 10 Apr. 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

MAY 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 9 36	18°47'27	19°46	23°20	8°39	28°47	11°9	8°27	23°40	27°R 1	0°R12	2°R 8	2°50	26°31	29°45	S 1
M 2	15 13 33	19°45'12	3°23	24°15	9°12	29° 8	11°22	8°28	23°39	27°R 0	0°M10	2°R 8	2°46	26°38	29°49	M 2
T 3	15 17 30	20°42'57	16°42	25°14	9°46	29°29	11°35	8°28	23°39	26°59	0° 9	2° 7	2°43	26°44	29°53	T 3
W 4	15 21 26	21°40'40	29°43	26°16	10°21	29°50	11°49	8°29	23°38	26°58	0° 7	2° 6	2°40	26°51	29°56	W 4
T 5	15 25 23	22°38'22	12°29	27°21	10°57	0°12	12° 2	8°30	23°37	26°56	0° 6	2° 5	2°37	26°58	0° 0	T 5
F 6	15 29 19	23°36'03	25° 1	28°29	11°34	0°34	12°16	8°30	23°37	26°55	0° 4	2° 3	2°34	27° 4	0° 4	F 6
S 7	15 33 16	24°33'43	7°22	29°40	12°13	0°56	12°29	8°30	23°36	26°54	0° 2	2° 3	2°30	27°11	0° 7	S 7
S 8	15 37 12	25°31'21	19°31	0°53	12°53	1°19	12°43	8°31	23°35	26°53	0° 1	2° 2	2°27	27°18	0°11	S 8
M 9	15 41 9	26°28'59	1°32	2° 9	13°33	1°42	12°56	8°31	23°34	26°51	29°59	2°D 2	2°24	27°24	0°15	M 9
T 10	15 45 5	27°26'35	13°27	3°28	14°15	2° 6	13°10	8°R31	23°33	26°50	29°58	2° 2	2°21	27°31	0°18	T 10
W11	15 49 2	28°24'10	25°17	4°50	14°58	2°29	13°23	8°31	23°32	26°48	29°57	2° 2	2°18	27°38	0°22	W11
T 12	15 52 59	29°21'44	7°25	6°14	15°42	2°53	13°37	8°31	23°31	26°47	29°55	2° 3	2°15	27°44	0°25	T 12
F 13	15 56 55	0°19'17	18°54	7°41	16°26	3°18	13°51	8°30	23°30	26°46	29°54	2° 3	2°11	27°51	0°29	F 13
S 14	16 0 52	1°16'48	0°47	9°10	17°12	3°42	14° 4	8°30	23°29	26°44	29°52	2° 3	2° 8	27°58	0°33	S 14
S 15	16 4 48	2°14'18	12°49	10°42	17°58	4° 7	14°18	8°30	23°28	26°43	29°51	2°R 3	2° 5	28° 4	0°36	S 15
M16	16 8 45	3°11'46	25° 4	12°17	18°45	4°32	14°31	8°29	23°26	26°41	29°50	2° 3	2° 2	28°11	0°40	M16
T 17	16 12 41	4° 9'14	7°35	13°53	19°33	4°58	14°45	8°28	23°25	26°40	29°48	2°D 3	1°59	28°18	0°43	T 17
W18	16 16 38	5° 6'40	20°28	15°33	20°21	5°23	14°59	8°28	23°24	26°39	29°47	2° 3	1°56	28°24	0°46	W18
T 19	16 20 34	6° 4'04	3°44	17°15	21°11	5°49	15°13	8°27	23°22	26°37	29°46	2° 3	1°52	28°31	0°50	T 19
F 20	16 24 31	7° 1'28	17°27	18°59	22° 1	6°16	15°26	8°26	23°21	26°36	29°45	2° 4	1°49	28°38	0°53	F 20
S 21	16 28 28	7°58'50	1°36	20°46	22°51	6°42	15°40	8°25	23°20	26°34	29°43	2° 4	1°46	28°44	0°56	S 21
S 22	16 32 24	8°56'12	16°10	22°35	23°42	7° 9	15°54	8°24	23°18	26°33	29°42	2° 5	1°43	28°51	1° 0	S 22
M23	16 36 21	9°53'32	1°3	24°27	24°34	7°36	16° 7	8°23	23°17	26°31	29°41	2°R 5	1°40	28°58	1° 3	M23
T 24	16 40 17	10°50'52	16° 8	26°21	25°27	8° 3	16°21	8°21	23°15	26°29	29°40	2° 5	1°36	29° 4	1° 6	T 24
W25	16 44 14	11°48'11	1°18	28°17	26°20	8°30	16°35	8°20	23°13	26°28	29°39	2° 4	1°33	29°11	1° 9	W25
T 26	16 48 10	12°45'29	16°21	0°15	27°14	8°58	16°49	8°19	23°12	26°26	29°37	2° 3	1°30	29°18	1°13	T 26
F 27	16 52 7	13°42'47	1°11	2°16	28° 8	9°26	17° 3	8°17	23°10	26°25	29°36	2° 2	1°27	29°24	1°16	F 27
S 28	16 56 4	14°40'04	15°40	4°19	29° 3	9°54	17°16	8°15	23° 9	26°23	29°35	2° 0	1°24	29°31	1°19	S 28
S 29	17 0 0	15°37'21	29°45	6°23	29°58	10°22	17°30	8°14	23° 7	26°22	29°34	1°59	1°21	29°37	1°22	S 29
M30	17 3 57	16°34'38	13°25	8°30	0°54	10°51	17°44	8°12	23° 5	26°20	29°33	1°D59	1°17	29°44	1°25	M30
T 31	17 7 53	17°31'54	26°40	10°37	1°50	11°20	17°58	8°10	23° 3	26°18	29°32	1°59	1°14	29°51	1°28	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	17n28	10s 2	5n10	6n 2	3s17	3n24	0s 2	13n32	1n43	21n48	0s23	18s47	0s36	21s55	0s30	22s16
M 2	17 43	5 22	5 17	6 21	3 18	3 29	0 11	13 23	1 41	21 50	0 23	18 47	0 36	21 55	0 30	22 16
T 3	17 59	0 33	5 7	6 43	3 18	3 34	0 20	13 14	1 39	21 52	0 23	18 47	0 36	21 55	0 30	22 16
W 4	18 14	4n11	4 41	7 5	3 18	3 41	0 28	13 5	1 37	21 54	0 23	18 47	0 37	21 56	0 30	22 16
T 5	18 29	8 39	4 2	7 30	3 17	3 47	0 36	12 55	1 36	21 55	0 22	18 47	0 37	21 56	0 30	22 16
F 6	18 43	12 41	3 11	7 55	3 15	3 55	0 44	12 46	1 34	21 57	0 22	18 47	0 37	21 56	0 30	22 16
S 7	18 58	16 6	2 13	8 23	3 13	4 3	0 51	12 36	1 32	21 59	0 22	18 47	0 37	21 56	0 30	22 15
S 8	19 12	18 46	1 9	8 51	3 9	4 12	0 58	12 27	1 30	22 1	0 22	18 47	0 37	21 56	0 30	22 15
M 9	19 25	20 34	0 3	9 21	3 6	4 22	1 5	12 17	1 29	22 3	0 22	18 47	0 37	21 56	0 30	22 15
T 10	19 39	21 26	1s 3	9 52	3 1	4 32	1 12	12 7	1 27	22 5	0 22	18 47	0 37	21 57	0 30	22 15
W11	19 51	21 20	2 6	10 24	2 56	4 42	1 18	11 57	1 25	22 6	0 22	18 47	0 38	21 57	0 30	22 15
T 12	20 4	20 16	3 3	10 57	2 51	4 53	1 25	11 47	1 24	22 8	0 22	18 47	0 38	21 57	0 30	22 15
F 13	20 16	18 20	3 52	11 31	2 45	5 5	1 31	11 36	1 22	22 10	0 22	18 48	0 38	21 57	0 30	22 15
S 14	20 28	15 37	4 32	12 5	2 38	5 17	1 36	11 26	1 21	22 12	0 21	18 48	0 38	21 57	0 31	22 15
S 15	20 40	12 12	5 0	12 41	2 31	5 30	1 42	11 15	1 19	22 13	0 21	18 48	0 38	21 58	0 31	22 15
M16	20 51	8 15	5 15	13 17	2 23	5 43	1 47	11 5	1 18	22 15	0 21	18 48	0 38	21 58	0 31	22 15
T 17	21 2	3 51	5 16	13 54	2 15	5 56	1 52	10 54	1 16	22 17	0 21	18 49	0 38	21 58	0 31	22 15
W18	21 13	0s50	5 2	14 31	2 7	6 10	1 57	10 43	1 14	22 18	0 21	18 49	0 39	21 58	0 31	22 15
T 19	21 23	5 37	4 31	15 9	1 58	6 25	2 1	10 32	1 13	22 20	0 21	18 49	0 39	21 59	0 31	22 15
F 20	21 32	10 18	3 43	15 47	1 48	6 39	2 6	10 21	1 11	22 22	0 21	18 50	0 39	21 59	0 31	22 15
S 21	21 42	14 35	2 41	16 25	1 39	6 54	2 10	10 10	1 10	22 23	0 21	18 50	0 39	21 59	0 31	22 15
S 22	21 51	18 7	1 27	17 2	1 28	7 9	2 14	9 58	1 9	22 25	0 21	18 51	0 39	21 59	0 31	22 15
M23	22 0	20 31	0 6	17 40	1 18	7 25	2 17	9 47	1 7	22 26	0 21	18 51	0 39	22 0	0 31	22 15
T 24	22 8	21 30	1n17	18 18	1 7	7 41	2 21	9 35	1 6	22 28	0 20	18 51	0 39	22 0	0 31	22 15
W25	22 16	20 55	2 35	18 55	0 57	7 57	2 24	9 24	1 4	22 29	0 20	18 52	0 40	22 0	0 31	22 15
T 26	22 23	18 50	3 42	19 31	0 46	8 13	2 27	9 12	1 3	22 31	0 20	18 52	0 40	22 1	0 31	22 15
F 27	22 30	15 31	4 32	20 6	0 35	8 30	2 30	9 0	1 1	22 32	0 20	18 53	0 40	22 1	0 31	22 15
S 28	22 37	11 20	5 4	20 41	0 24	8 47	2 33	8 48	1 0	22 34	0 20	18 54	0 40	22 1	0 31	22 15
S 29	22 44	6 39	5 17	21 14	0 13	9 4	2 35	8 36	0 59	22 35	0 20	18 54	0 40	22 2	0 31	22 14
M30	22 50	1 45	5 11	21 45	0 2	9 21	2 38	8 24	0 57	22 36	0 20	18 55	0 40	22 2	0 31	22 14
T 31	22n55	3n 4	4n48	22n15	0n 9	9n38	2s40	8n12	0n56	22n38	0s20	18s55	0s40	22s 2	0s31	22s14

Julian Day Number = 2265765.5, Delta T = 05m10s

Ecliptic obliquity = 23°30'15, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°38'35, Lahiri = 16°45'36 Julian Calendar 1 May 1491 == Greg. Calendar 10 May 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

JUNE 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	17 11 50	18II29°10	9V33	12II47	2846	11II49	18II11	8°R 8	23°R 1	26°R17	29°R31	28° 0	18°11	29II57	1831	W 1
T 2	17 15 46	19°26'25	22° 8	14°57	3°43	12°18	18°25	8° 6	23° 0	26°15	29°30	2° 1	1° 8	0° 4	1°34	T 2
F 3	17 19 43	20°23'41	4827	17° 7	4°41	12°47	18°39	8° 3	22°58	26°14	29°29	2° 3	1° 5	0°11	1°37	F 3
S 4	17 23 39	21°20'56	16°34	19°19	5°39	13°17	18°53	8° 1	22°56	26°12	29°29	2° 4	1° 2	0°17	1°40	S 4
S 5	17 27 36	22°18'11	28°32	21°30	6°37	13°47	19° 7	7°59	22°54	26°10	29°28	2°R 5	0°58	0°24	1°43	S 5
M 6	17 31 33	23°15'25	10II25	23°42	7°36	14°17	19°20	7°56	22°52	26° 9	29°27	2° 4	0°55	0°31	1°45	M 6
T 7	17 35 29	24°12'40	22°14	25°53	8°35	14°47	19°34	7°54	22°50	26° 7	29°26	2° 3	0°52	0°37	1°48	T 7
W 8	17 39 26	25° 9'54	482 2	28° 4	9°34	15°17	19°48	7°51	22°48	26° 6	29°25	2° 1	0°49	0°44	1°51	W 8
T 9	17 43 22	26° 7'07	15°51	0814	10°34	15°48	20° 2	7°49	22°46	26° 4	29°25	1°57	0°46	0°51	1°53	T 9
F 10	17 47 19	27° 4'21	27°44	2°22	11°34	16°19	20°15	7°46	22°44	26° 2	29°24	1°53	0°42	0°57	1°56	F 10
S 11	17 51 15	28° 1'33	9841	4°30	12°34	16°50	20°29	7°43	22°42	26° 1	29°23	1°49	0°39	1° 4	1°59	S 11
S 12	17 55 12	28°58'46	21°47	6°36	13°35	17°21	20°43	7°40	22°40	25°59	29°23	1°45	0°36	1°11	2° 1	S 12
M13	17 59 8	29°55'58	4II 4	8°41	14°36	17°52	20°56	7°37	22°37	25°57	29°22	1°42	0°33	1°17	2° 4	M13
T 14	18 3 5	0853'09	16°36	10°44	15°37	18°24	21°10	7°34	22°35	25°56	29°21	1°40	0°30	1°24	2° 6	T 14
W15	18 7 2	1°50'21	29°25	12°45	16°39	18°55	21°24	7°31	22°33	25°54	29°21	1°D39	0°27	1°31	2° 9	W15
T 16	18 10 58	2°47'32	12435	14°44	17°40	19°27	21°37	7°28	22°31	25°53	29°20	1°39	0°23	1°37	2°11	T 16
F 17	18 14 55	3°44'42	26° 9	16°42	18°42	19°59	21°51	7°24	22°29	25°51	29°20	1°40	0°20	1°44	2°13	F 17
S 18	18 18 51	4°41'52	10II 9	18°37	19°45	20°31	22° 4	7°21	22°26	25°49	29°19	1°42	0°17	1°51	2°16	S 18
S 19	18 22 48	5°39'02	24°35	20°31	20°47	21° 3	22°18	7°18	22°24	25°48	29°19	1°R43	0°14	1°57	2°18	S 19
M20	18 26 44	6°36'12	9823	22°23	21°50	21°36	22°32	7°14	22°22	25°46	29°19	1°43	0°11	2° 4	2°20	M20
T 21	18 30 41	7°33'22	24°28	24°12	22°53	22° 9	22°45	7°11	22°20	25°45	29°18	1°41	0° 8	2°11	2°22	T 21
W22	18 34 37	8°30'32	9842	26° 0	23°57	22°41	22°59	7° 7	22°17	25°43	29°18	1°38	0° 4	2°17	2°24	W22
T 23	18 38 34	9°27'43	24°55	27°45	25° 0	23°14	23°12	7° 3	22°15	25°42	29°18	1°33	0° 1	2°24	2°26	T 23
F 24	18 42 31	10°24'53	9856	29°29	26° 4	23°47	23°25	7° 0	22°13	25°40	29°17	1°28	29II58	2°31	2°28	F 24
S 25	18 46 27	11°22'04	24°38	1811	27° 8	24°21	23°39	6°56	22°10	25°38	29°17	1°22	29°55	2°37	2°30	S 25
S 26	18 50 24	12°19'15	8854	2°50	28°12	24°54	23°52	6°52	22° 8	25°37	29°17	1°17	29°52	2°44	2°32	S 26
M27	18 54 20	13°16'26	22°41	4°28	29°17	25°27	24° 6	6°48	22° 6	25°35	29°17	1°14	29°48	2°51	2°34	M27
T 28	18 58 17	14°13'38	6V 0	6° 4	0II21	26° 1	24°19	6°44	22° 3	25°34	29°17	1°12	29°45	2°57	2°36	T 28
W29	19 2 13	15°10'51	18°52	7°37	1°26	26°35	24°32	6°40	22° 1	25°32	29°17	1°D12	29°42	3° 4	2°37	W29
T 30	19 6 10	16°8'05	1823	98 9	2II31	27II 9	24II45	6836	21858	25831	29816	1812	29II39	3811	2839	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	23n 0	7n39	4n11	22n43	0n20	9n56	2s42	7n59	0n55	22n39	0s20	18s56	0s40	22s 3	0s31	22s14	1n13	4n24	16n47	20s37	20s27	21n 1	11n42	0s21			
T 2	23 5	11 47	3 23	23 9	0 30	10 13	2 44	7 47	0 53	22 40	0 20	18 57	0 41	22 3	0 31	22 14	1 13	4 24	16 47	20 37	20 26	21 1	11 43	0 21			
F 3	23 9	15 20	2 27	23 32	0 40	10 31	2 46	7 35	0 52	22 42	0 19	18 57	0 41	22 3	0 31	22 14	1 13	4 24	16 46	20 38	20 26	21 0	11 44	0 22			
S 4	23 13	18 11	1 25	23 54	0 49	10 49	2 47	7 22	0 51	22 43	0 19	18 58	0 41	22 4	0 31	22 14	1 13	4 24	16 46	20 38	20 25	20 59	11 45	0 22			
S 5	23 17	20 12	0 20	24 12	0 58	11 6	2 49	7 9	0 49	22 44	0 19	18 59	0 41	22 4	0 31	22 14	1 13	4 23	16 45	20 38	20 25	20 58	11 46	0 22			
M 6	23 20	21 19	0s46	24 28	1 7	11 24	2 50	6 57	0 48	22 45	0 19	19 0	0 41	22 4	0 31	22 14	1 13	4 23	16 45	20 38	20 24	20 57	11 46	0 22			
T 7	23 23	21 28	1 49	24 41	1 15	11 42	2 51	6 44	0 47	22 47	0 19	19 0	0 41	22 5	0 31	22 14	1 13	4 23	16 44	20 38	20 23	20 57	11 47	0 22			
W 8	23 25	20 39	2 47	24 51	1 22	12 0	2 52	6 31	0 46	22 48	0 19	19 1	0 41	22 5	0 31	22 14	1 13	4 23	16 44	20 37	20 23	20 56	11 48	0 22			
T 9	23 27	18 57	3 38	24 58	1 28	12 18	2 53	6 18	0 44	22 49	0 19	19 2	0 42	22 5	0 31	22 14	1 13	4 23	16 43	20 37	20 22	20 55	11 49	0 22			
F 10	23 28	16 25	4 20	25 3	1 34	12 36	2 53	6 5	0 43	22 50	0 19	19 3	0 42	22 6	0 31	22 14	1 13	4 22	16 43	20 36	20 21	20 54	11 50	0 22			
S 11	23 29	13 12	4 51	25 5	1 39	12 54	2 54	5 51	0 42	22 51	0 19	19 4	0 42	22 6	0 31	22 14	1 13	4 22	16 42	20 35	20 21	20 53	11 51	0 22			
S 12	23 30	9 24	5 9	25 4	1 43	13 11	2 54	5 38	0 41	22 52	0 19	19 5	0 42	22 6	0 31	22 14	1 13	4 22	16 42	20 34	20 20	20 53	11 51	0 22			
M13	23 30	5 11	5 13	25 0	1 47	13 29	2 54	5 25	0 39	22 53	0 19	19 6	0 42	22 7	0 31	22 14	1 13	4 22	16 41	20 33	20 19	20 52	11 52	0 23			
T 14	23 30	0 39	5 3	24 54	1 50	13 47	2 54	5 11	0 38	22 54	0 18	19 7	0 42	22 7	0 31	22 14	1 13	4 21	16 41	20 33	20 19	20 51	11 53	0 23			
W15	23 29	4s 0	4 38	24 45	1 52	14 4	2 54	4 58	0 37	22 55	0 18	19 7	0 42	22 8	0 31	22 14	1 13	4 21	16 40	20 33	20 18	20 50	11 54	0 23			
T 16	23 28	8 37	3 57	24 34	1 53	14 22	2 54	4 44	0 36	22 56	0 18	19 8	0 43	22 8	0 31	22 14	1 13	4 21	16 40	20 33	20 17	20 49	11 54	0 23			
F 17	23 27	12 57	3 2	24 21	1 54	14 39	2 54	4 31	0 35	22 57	0 18	19 9	0 43	22 8	0 31	22 14	1 13	4 20	16 39	20 33	20 17	20 48	11 55	0 23			
S 18	23 25	16 43	1 55	24 5	1 54	14 56	2 53	4 17	0 34	22 58	0 18	19 10	0 43	22 9	0 31	22 14	1 13	4 20	16 39	20 33	20 16	20 48	11 56	0 23			
S 19	23 23	19 36	0 39	23 48	1 53	15 13	2 53	4 3	0 32	22 59	0 18	19 11	0 43	22 9	0 31	22 14	1 13	4 19	16 38	20 34	20 15	20 47	11 56	0 23			
M20	23 20	21 14	0n42	23 29	1 52	15 30	2 52	3 49	0 31	23 0	0 18	19 12	0 43	22 9	0 31	22 14	1 13	4 19	16 37	20 34	20 15	20 46	11 57	0 23			
T 21	23 17	21 22	2 1	23 8	1 50	15 47	2 51	3 35	0 30	23 0	0 18	19 13	0 43	22 10	0 31	22 14	1 13	4 19	16 37	20 33	20 14	20 45	11 58	0 23			
W22	23 14	19 57	3 12	22 46	1 47	16 4	2 50	3 21	0 29	23 1	0 18	19 14	0 43	22 10	0 31	22 14	1 13	4 18	16 36	20 33	20 13	20 44	11 58	0 23			
T 23	23 10	17 7	4 10	22 22	1 44	16 20	2 49	3 7	0 28	23 2	0 18	19 15	0 43	22 11	0 31	22 14	1 13	4 18	16 36	20 32	20 13	20 43	11 59	0 24			
F 24	23 6	13 10	4 49	21 57	1 41	16 36	2 48	2 53	0 27	23 3	0 18	19 17	0 44	22 11	0 31	22 13	1 13	4 17	16 35	20 31	20 12	20 42	12 0	0 24			
S 25	23 1	8 30	5 8	21 31	1 36	16 52	2 47	2 39	0 26	23 4	0 18	19 18	0 44	22 11	0 31	22 13	1 12	4 17	16 35	20 29	20 11	20 42	12 0	0 24			
S 26	22 56	3 30	5 8	21 3	1 31	17 7	2 46	2 25	0 25	23 4	0 17	19 19	0 44	22 12	0 31	22 13	1 12	4 16	16 34	20 28	20 11	20 41	12 1	0 24			
M27	22 50	1n31	4 49	20 35	1 26	17 23	2 44	2 10	0 24	23 5	0 17	19 20	0 44	22 12	0 31	22 13	1 12	4 16	16 34	20 28	20 10	20 40	12 1	0 24			
T 28	22 45	6 17	4 15	20 6	1 20	17 38	2 43	1 56	0 23	23 6	0 17	19 21	0 44	22 13	0 31	22 13	1 12	4 15	16 33	20 27	20 9	20 39	12 2	0 24			
W29	22 38	10 38	3 29	19 36	1 14	17 53	2 41	1 41	0 21	23 6	0 17	19 22	0 44	22 13	0 31	22 13	1 12	4 15	16 32	20 27	20 8	20 38	12 2	0 24			
T 30	22n32	14n24	2n35	19n 5	1n 7	18n 7	2s39	1n27	0n20	23n 7	0s17	19s23	0s44	22s13	0s31	22s13	1n12	4n14	16n32	20s27	20s 8	20n37	12n 3	0s24			

ASTRODIENST EPHEMERIS for the year 1491

geocentric

JULY 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	19 10 6	17°51'19"	13°37'13"	10°38'10"	3°36'31"	27°43'27"	24°59'24"	6°32'06"	21°56'21"	25°29'25"	29°16'D16	1°14'17"	29°36'29"	3°17'35"	2°41'28"	F 1
S 2	19 14 3	18° 2'34"	25°37'25"	12° 6'	4°42'	28°17'	25°12'	6°28'28"	21°54'21"	25°28'25"	29°16'D16	1°15'10"	29°33'29"	3°24'30"	2°42'29"	S 2
S 3	19 18 0	18°59'49"	7°30'11"	13°31'	5°47'	28°51'	25°25'	6°24'	21°51'	25°26'	29°17'	1°15'	29°29'	3°31'	2°44'	S 3
M 4	19 21 56	19°57'06"	19°18'	14°55'	6°53'	29°26'	25°38'	6°20'	21°49'	25°25'	29°17'	1°13'	29°26'	3°37'	2°45'	M 4
T 5	19 25 53	20°54'22"	1°58'15"	16°16'	7°59'	0°0'0"	25°51'	6°16'	21°46'	25°24'	29°17'	1° 9'	29°23'	3°44'	2°47'	T 5
W 6	19 29 49	21°51'40"	12°55'17"	17°35'	9° 5'	0°35'	26° 4'	6°11'	21°44'	25°22'	29°17'	1° 3'	29°20'	3°51'	2°48'	W 6
T 7	19 33 46	22°48'58"	24°48'	18°52'	10°12'	1°10'	26°17'	6° 7'	21°42'	25°21'	29°17'	0°55'	29°17'	3°58'	2°49'	T 7
F 8	19 37 42	23°46'17"	6°47'18"	20° 6'	11°18'	1°45'	26°30'	6° 3'	21°39'	25°19'	29°17'	0°45'	29°14'	4° 4'	2°51'	F 8
S 9	19 41 39	24°43'36"	18°54'	21°19'	12°25'	2°20'	26°43'	5°59'	21°37'	25°18'	29°18'	0°35'	29°10'	4°11'	2°52'	S 9
S 10	19 45 35	25°40'56"	1°39'11"	22°29'	13°31'	2°56'	26°56'	5°54'	21°34'	25°17'	29°18'	0°26'	29° 7'	4°18'	2°53'	S 10
M 11	19 49 32	26°38'17"	13°35'	23°36'	14°38'	3°31'	27° 9'	5°50'	21°32'	25°15'	29°18'	0°17'	29° 4'	4°24'	2°54'	M 11
T 12	19 53 29	27°35'38"	26°12'	24°41'	15°45'	4° 7'	27°21'	5°45'	21°30'	25°14'	29°19'	0°11'	29° 1'	4°31'	2°55'	T 12
W 13	19 57 25	28°32'59"	9°44'25"	25°43'	16°52'	4°42'	27°34'	5°41'	21°27'	25°13'	29°19'	0° 7'	28°58'	4°38'	2°56'	W 13
T 14	20 1 22	29°30'21"	22°12'	26°42'	18° 0'	5°18'	27°47'	5°37'	21°25'	25°11'	29°19'	0° 5'	28°54'	4°44'	2°57'	T 14
F 15	20 5 18	0°27'44"	5°41'11"	27°39'	19° 7'	5°54'	27°59'	5°32'	21°22'	25°10'	29°20'	0°D 5'	28°51'	4°51'	2°58'	F 15
S 16	20 9 15	1°25'07"	19°30'	28°32'	20°15'	6°30'	28°12'	5°28'	21°20'	25° 9'	29°20'	0° 6'	28°48'	4°58'	2°59'	S 16
S 17	20 13 11	2°22'31"	3°42'29"	29°22'	21°22'	7° 6'	28°24'	5°23'	21°18'	25° 8'	29°21'	0°R 6'	28°45'	5° 4'	3° 0'	S 17
M 18	20 17 8	3°19'56"	18°15'	0°39'22"	22°30'	7°42'	28°37'	5°19'	21°15'	25° 7'	29°21'	0° 5'	28°42'	5°11'	3° 0'	M 18
T 19	20 21 4	4°17'21"	3°37'00"	0°53'23"	23°38'	8°19'	28°49'	5°14'	21°13'	25° 5'	29°22'	0° 1'	28°39'	5°18'	3° 1'	T 19
W 20	20 25 1	5°14'48"	18°11'	1°32'24"	24°46'	8°55'	29° 2'	5°10'	21°11'	25° 4'	29°23'	29°11'55"	28°35'	5°24'	3° 1'	W 20
T 21	20 28 58	6°12'15"	3°47'17"	2° 8'	25°55'	9°32'	29°14'	5° 5'	21° 8'	25° 3'	29°23'	29°27'	28°32'	5°31'	3° 2'	T 21
F 22	20 32 54	7° 9'43"	18°17'	2°40'	27° 3'	10° 8'	29°26'	5° 1'	21° 6'	25° 2'	29°24'	29°38'	28°29'	5°38'	3° 2'	F 22
S 23	20 36 51	8° 7'12"	3°38'11"	3° 8'	28°12'	10°45'	29°38'	4°56'	21° 4'	25° 1'	29°25'	29°28'	28°26'	5°44'	3° 3'	S 23
S 24	20 40 47	9° 4'42"	17°21'	3°31'	29°20'	11°22'	29°50'	4°52'	21° 2'	25° 0'	29°25'	29°19'	28°23'	5°51'	3° 3'	S 24
M 25	20 44 44	10° 2'14"	1°13'35"	3°50'	0°59'29"	11°59'	0°58'22"	4°48'	20°59'	24°59'	29°26'	29°11'	28°20'	5°58'	3° 4'	M 25
T 26	20 48 40	10°59'47"	14°36'	4° 4'	1°38'	12°36'	0°14'	4°43'	20°57'	24°58'	29°27'	29° 6'	28°16'	6° 4'	3° 4'	T 26
W 27	20 52 37	11°57'21"	27°32'	4°13'	2°47'	13°14'	0°26'	4°39'	20°55'	24°57'	29°28'	29° 4'	28°13'	6°11'	3° 4'	W 27
T 28	20 56 33	12°54'57"	10°18'44"	4°R17	3°56'	13°51'	0°38'	4°34'	20°53'	24°56'	29°29'	29°D 3'	28°10'	6°18'	3° 4'	T 28
F 29	21 0 30	13°52'35"	22°17'	4°15'	5° 5'	14°28'	0°49'	4°30'	20°51'	24°55'	29°30'	29° 3'	28° 7'	6°24'	3° 4'	F 29
S 30	21 4 27	14°50'14"	4°11'17"	4° 8'	6°15'	15° 6'	1° 1'	4°25'	20°48'	24°54'	29°31'	29°R 3'	28° 4'	6°31'	3°R 4'	S 30
S 31	21 8 23	15°47'55"	16°11'08"	3°35'55"	7°52'24"	15°44'44"	1°51'13"	4°22'21"	20°34'46"	24°53'53"	29°32'32"	29°11'02"	28°11'00"	6°33'38"	3°R 4'	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22n24	17n28	1n34	18n34	1n 0	18n21	2s37	1n12	0n19	23n 7	0s17	19s24	0s44	22s14	0s31	F 1
S 2	22 17	19 43	0 30	18 3	0 52	18 35	2 36	0 58	0 18	23 8	0 17	19 25	0 44	22 14	0 31	S 2
S 3	22 9 21	4 0s34	17 30	0 44	18 49	2 34	0 43	0 17	23 9	0 17	19 27	0 45	22 15	0 31	22 13	S 3
M 4	22 1 21	29 1	1 36	16 58	0 35	19 2	2 32	0 29	0 16	23 9	0 17	19 28	0 45	22 15	0 31	M 4
T 5	21 52 20	56 2	3 24	16 25	0 26	19 14	2 29	0 14	0 15	23 10	0 17	19 29	0 45	22 15	0 32	T 5
W 6	21 43 19	28 3	2 25	15 53	0 17	19 27	2 27	0s 1	0 14	23 10	0 17	19 30	0 45	22 16	0 32	W 6
T 7	21 34 17	10 4	8 15	20 5	0 8	19 39	2 25	0 16	0 13	23 11	0 17	19 31	0 45	22 16	0 32	T 7
F 8	21 24 14	7 4	4 40	14 47	0s 2	19 50	2 23	0 31	0 12	23 11	0 16	19 32	0 45	22 17	0 32	F 8
S 9	21 14 10	27 4	5 59	14 14	0 12	20 2	2 20	0 46	0 11	23 11	0 16	19 34	0 45	22 17	0 32	S 9
S 10	21 4 6	20 5	5 13	42 0	23 20	12 2	2 18	1 1	0 10	23 12	0 16	19 35	0 45	22 17	0 32	S 10
M 11	20 53 1	54 4	5 13	10 0	34 20	23 2	1 15	1 16	0 9	23 12	0 16	19 36	0 45	22 18	0 32	M 11
T 12	20 42 2s41	4 35	12 38	0 45	20 33	2 12	1 31	0 8	23 12	0 16	19 37	0 45	22 18	0 32	22 13	T 12
W 13	20 30 7	15 3	5 18	12 6	0 56	20 42	2 10	1 46	0 7	23 13	0 16	19 38	0 46	22 18	0 32	W 13
T 14	20 19 11	35 3	8 11	36 1	7 20	51 2	7 2	1 0	6	23 13	0 16	19 39	0 46	22 19	0 32	T 14
F 15	20 6 15	26 2	7 11	5 1	19 21	0 2	4 2	2 16	0 6	23 13	0 16	19 41	0 46	22 19	0 32	F 15
S 16	19 54 18	33 0	56 10	36 1	31 21	8 2	2 1	2 31	0 5	23 14	0 16	19 42	0 46	22 20	0 32	S 16
S 17	19 41 20	38 0n19	10 7	1 42	21 15	1 58	2 46	0 4	23 14	0 16	19 43	0 46	22 20	0 32	22 13	S 17
M 18	19 28 21	24 1	35 9	40 1	54 21	22 1	5 5	3 1	0 3	23 14	0 16	19 44	0 46	22 20	0 32	M 18
T 19	19 14 20	42 2	46 9	13 2	6 21	29 1	5 2	3 17	0 2	23 14	0 16	19 45	0 46	22 21	0 32	T 19
W 20	19 0 18	31 3	47 8	48 2	19 21	35 1	4 9	3 32	0 1	23 14	0 16	19 47	0 46	22 21	0 32	W 20
T 21	18 46 15	4 4	32 8	24 2	31 21	40 1	4 6	3 47	0 0	23 15	0 15	19 48	0 46	22 21	0 32	T 21
F 22	18 32 10	41 4	57 8	1 2	43 21	45 1	4 3	4 2	0s 1	23 15	0 15	19 49	0 46	22 22	0 32	F 22
S 23	18 17 5	43 5	2 7	40 2	55 21	49 1	4 40	4 18	0 2	23 15	0 15	19 50	0 46	22 22	0 32	S 23
S 24	18 2 0	35 4	48 7	21 3	6 21	53 1	3 7	4 33	0 3	23 15	0 15	19 51	0 47	22 22	0 32	S 24
M 25	17 47 4n25	4 17	7 3	3 18	21 57	1 34	4 48	0 4	23 15	0 15	19 52	0 47	22 23	0 32	22 13	M 25
T 26	17 31 9	3 33	6 48	3 29	21 59	1 30	5 4	0 4	23 15	0 15	19 53	0 47	22 23	0 32	22 13	T 26
W 27	17 15 13	6 2	39 6	35 3	40 22	1 1	5 19	0 5	23 15	0 15	19 55	0 47	22 23	0 32	22 13	W 27
T 28	16 59 16	27 1	39 6	24 3	50 22	3 1	24 5	3 34	0 6	23 15	0 15	19 56	0 47	22 24	0 32	T 28
F 29	16 42 18	58 0	36 6	15 4	0 22	4 1	20 5	5 50	0 7	23 15	0 15	19 57	0 47	22 24	0 32	F 29
S 30	16 26 20	36 0s28	6 10	4 9	22 4	1 17	6 5	0 8	23 15	0 15	19 58	0 47	22 24	0 32	22 13	S 30
S 31	16n 9	21n18	1s29	6n 7	4s17	22n 4	1s14	6s20	0s 9	23n15	0s15	19s59	0s47	22s25	0s32	S 31

Julian Day Number = 2265826.5, Delta T = 05m09s

Ecliptic obliquity = 23°30'14", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°38'44", Lahiri = 16°45'44" Julian Calendar 1 July 1491 == Greg. Calendar 10 July 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

AUGUST 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	21 12 20	16°45'37	27°11'56	3°R37	8°53'4	16°21	1°24	4°R17	20°R44	24°R52	29°233	28°R59	27°M57	6°544	3°R 4	M 1
T 2	21 16 16	17°43'21	9°544	3°M13	9°43	16°59	1°36	4°12	20°342	24°251	29°34	28°M53	27°54	6°51	3°R 4	T 2
W 3	21 20 13	18°41'06	21°37	2°43	10°53	17°37	1°47	4° 8	20°40	24°51	29°35	28°44	27°51	6°58	3° 4	W 3
T 4	21 24 9	19°38'53	3°138	2° 8	12° 3	18°16	1°58	4° 4	20°38	24°50	29°36	28°33	27°48	7° 4	3° 3	T 4
F 5	21 28 6	20°36'41	15°47	1°29	13°13	18°54	2° 9	4° 0	20°36	24°49	29°37	28°20	27°45	7°11	3° 3	F 5
S 6	21 32 2	21°34'31	28° 6	0°45	14°23	19°32	2°20	3°56	20°34	24°48	29°38	28° 7	27°41	7°18	3° 3	S 6
S 7	21 35 59	22°32'22	10°M36	29°157	15°33	20°10	2°31	3°51	20°32	24°48	29°40	27°54	27°38	7°24	3° 2	S 7
M 8	21 39 56	23°30'14	23°16	29° 6	16°44	20°49	2°42	3°47	20°30	24°47	29°41	27°42	27°35	7°31	3° 2	M 8
T 9	21 43 52	24°28'08	6°18	28°13	17°54	21°28	2°53	3°43	20°29	24°46	29°42	27°33	27°32	7°38	3° 1	T 9
W10	21 47 49	25°26'03	19°11	27°18	19° 5	22° 6	3° 4	3°39	20°27	24°46	29°43	27°27	27°29	7°44	3° 0	W10
T 11	21 51 45	26°24'00	2°M27	26°23	20°15	22°45	3°14	3°35	20°25	24°45	29°45	27°23	27°25	7°51	3° 0	T 11
F 12	21 55 42	27°21'58	15°57	25°30	21°26	23°24	3°25	3°31	20°23	24°45	29°46	27°22	27°22	7°58	2°59	F 12
S 13	21 59 38	28°19'57	29°42	24°38	22°37	24° 3	3°35	3°28	20°21	24°44	29°47	27°22	27°19	8° 4	2°58	S 13
S 14	22 3 35	29°17'57	13°244	23°50	23°48	24°42	3°46	3°24	20°20	24°44	29°49	27°22	27°16	8°11	2°57	S 14
M15	22 7 31	0°M15'59	28° 2	23° 5	24°59	25°22	3°56	3°20	20°18	24°43	29°50	27°20	27°13	8°18	2°56	M15
T 16	22 11 28	1°14'03	12°334	22°27	26°10	26° 1	4° 6	3°16	20°16	24°43	29°52	27°16	27°10	8°24	2°55	T 16
W17	22 15 25	2°12'07	27°16	21°54	27°21	26°40	4°16	3°13	20°15	24°42	29°53	27° 9	27° 6	8°31	2°54	W17
T 18	22 19 21	3°10'14	12°33	21°29	28°32	27°20	4°26	3° 9	20°13	24°42	29°55	27° 0	27° 3	8°38	2°53	T 18
F 19	22 23 18	4° 8'21	26°46	21°11	29°43	27°59	4°36	3° 6	20°12	24°42	29°56	26°49	27° 0	8°45	2°52	F 19
S 20	22 27 14	5° 6'31	11°17	21° 2	0°M55	28°39	4°46	3° 2	20°10	24°42	29°58	26°37	26°57	8°51	2°51	S 20
S 21	22 31 11	6° 4'42	25°30	21°D 1	2° 6	29°19	4°55	2°59	20° 9	24°41	29°59	26°27	26°54	8°58	2°50	S 21
M22	22 35 7	7° 2'55	9°Y19	21° 9	3°18	29°59	5° 5	2°55	20° 7	24°41	0°M 1	26°18	26°51	9° 5	2°48	M22
T 23	22 39 4	8° 1'10	22°41	21°26	4°29	0°M39	5°14	2°52	20° 6	24°41	0° 3	26°12	26°47	9°11	2°47	T 23
W24	22 43 0	8°59'27	5°B38	21°52	5°41	1°19	5°23	2°49	20° 5	24°41	0° 5	26° 8	26°44	9°18	2°46	W24
T 25	22 46 57	9°57'46	18°12	22°26	6°53	1°59	5°33	2°46	20° 3	24°41	0° 6	26° 7	26°41	9°25	2°44	T 25
F 26	22 50 54	10°56'07	0°II27	23° 9	8° 5	2°39	5°42	2°43	20° 2	24°40	0° 8	26°D 6	26°38	9°31	2°43	F 26
S 27	22 54 50	11°54'31	12°28	24° 0	9°17	3°19	5°51	2°40	20° 1	24°40	0°10	26°R 7	26°35	9°38	2°41	S 27
S 28	22 58 47	12°52'56	24°20	24°58	10°29	4° 0	5°59	2°37	20° 0	24°40	0°12	26° 6	26°31	9°45	2°39	S 28
M29	23 2 43	13°51'24	6°510	26° 4	11°41	4°40	6° 8	2°34	19°59	24°D40	0°13	26° 4	26°28	9°51	2°38	M29
T 30	23 6 40	14°49'54	18° 1	27°16	12°53	5°21	6°17	2°32	19°58	24°40	0°15	25°59	26°25	9°58	2°36	T 30
W31	23 10 36	15°M48'26	29°58	28°135	14°16	6°M 2	6°525	2°29	19°57	24°40	0°M17	25°M52	26°M22	10°5	2°34	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n51	21n 3	2s27	6n 7	4s24	22n 3	1s10	6s36	0s10	23n15	0s15	20s 0	0s47	22s25	0s32	22s13
T 2	15 34	19 51	3 18	6 10	4 30	22 2	1 7	6 51	0 10	23 15	0 15	20 1	0 47	22 25	0 32	22 13
W 3	15 16	17 48	4 0	6 16	4 35	22 0	1 4	7 6	0 11	23 15	0 15	20 2	0 47	22 26	0 32	22 13
T 4	14 58	14 58	4 33	6 25	4 38	21 57	1 0	7 22	0 12	23 15	0 14	20 3	0 47	22 26	0 32	22 13
F 5	14 40	11 29	4 53	6 37	4 40	21 54	0 57	7 37	0 13	23 15	0 14	20 5	0 47	22 26	0 31	22 13
S 6	14 21	7 28	5 0	6 52	4 40	21 50	0 53	7 52	0 14	23 15	0 14	20 6	0 47	22 27	0 31	22 13
S 7	14 2	3 6	4 53	7 11	4 38	21 46	0 50	8 8	0 14	23 15	0 14	20 7	0 48	22 27	0 31	22 13
M 8	13 43	1s28	4 31	7 31	4 35	21 41	0 46	8 23	0 15	23 14	0 14	20 8	0 48	22 27	0 31	22 13
T 9	13 24	6 3	3 56	7 55	4 29	21 36	0 43	8 38	0 16	23 14	0 14	20 9	0 48	22 27	0 31	22 13
W10	13 5	10 25	3 7	8 20	4 22	21 29	0 40	8 54	0 17	23 14	0 14	20 10	0 48	22 28	0 31	22 13
T 11	12 45	14 21	2 8	8 47	4 13	21 23	0 36	9 9	0 18	23 14	0 14	20 11	0 48	22 28	0 31	22 13
F 12	12 25	17 37	1 0	9 16	4 2	21 15	0 33	9 24	0 18	23 14	0 14	20 12	0 48	22 28	0 31	22 13
S 13	12 5	19 56	0n12	9 45	3 49	21 7	0 29	9 39	0 19	23 14	0 14	20 13	0 48	22 28	0 31	22 13
S 14	11 45	21 6	1 25	10 14	3 35	20 59	0 26	9 54	0 20	23 13	0 14	20 13	0 48	22 29	0 31	22 13
M15	11 24	20 55	2 34	10 43	3 19	20 49	0 23	10 9	0 21	23 13	0 14	20 14	0 48	22 29	0 31	22 13
T 16	11 4	19 21	3 35	11 12	3 2	20 40	0 19	10 24	0 21	23 13	0 14	20 15	0 48	22 29	0 31	22 13
W17	10 43	16 29	4 21	11 39	2 45	20 29	0 16	10 39	0 22	23 13	0 13	20 16	0 48	22 29	0 31	22 13
T 18	10 22	12 34	4 51	12 4	2 26	20 18	0 13	10 54	0 23	23 12	0 13	20 17	0 48	22 30	0 31	22 13
F 19	10 1	7 55	5 1	12 28	2 7	20 7	0 9	11 9	0 24	23 12	0 13	20 18	0 48	22 30	0 31	22 13
S 20	9 40	2 52	4 51	12 49	1 48	19 55	0 6	11 24	0 24	23 12	0 13	20 19	0 48	22 30	0 31	22 13
S 21	9 18	2n14	4 23	13 7	1 30	19 42	0 3	11 39	0 25	23 12	0 13	20 20	0 48	22 30	0 31	22 13
M22	8 57	7 5	3 41	13 22	1 11	19 29	0n 0	11 54	0 26	23 11	0 13	20 20	0 48	22 30	0 31	22 13
T 23	8 35	11 26	2 47	13 34	0 53	19 15	0 4	12 9	0 26	23 11	0 13	20 21	0 48	22 31	0 31	22 14
W24	8 13	15 6	1 46	13 43	0 35	19 1	0 7	12 23	0 27	23 11	0 13	20 22	0 48	22 31	0 31	22 14
T 25	7 51	17 58	0 42	13 47	0 18	18 46	0 10	12 38	0 28	23 10	0 13	20 23	0 48	22 31	0 31	22 14
F 26	7 29	19 55	0s23	13 49	0 2	18 30	0 13	12 52	0 29	23 10	0 13	20 23	0 48	22 31	0 31	22 14
S 27	7 7	20 56	1 26	13 46	0n13	18 14	0 16	13 7	0 29	23 10	0 13	20 24	0 48	22 31	0 31	22 14
S 28	6 44	20 59	2 24	13 40	0 28	17 58	0 19	13 21	0 30	23 9	0 13	20 25	0 48	22 32	0 31	22 14
M29	6 22	20 6	3 16	13 30	0 41	17 41	0 22	13 36	0 31	23 9	0 13	20 25	0 48	22 32	0 31	22 14
T 30	5 59	18 20	3 59	13 16	0 53	17 23	0 25	13 50	0 31	23 9	0 12	20 26	0 48	22 32	0 31	22 14
W31	5n37	15n46	4s32	12n59	1n 3	17n 5	0n28	14s 4	0s32	23n 8	0s12	20s27	0s48	22s32	0s31	22s14

Julian Day Number = 2265857.5, Delta T = 05m09s

Ecliptic obliquity = 23°30'14, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°38'48, Lahiri = 16°45'48 Julian Calendar 1 Aug. 1491 == Greg. Calendar 10 Aug. 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

SEPTEMBER 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 14 33	16 ¹⁷ 47'00	12 ¹⁸ 5	29 ¹⁸ 59	15 ¹⁸ 18	6 ¹⁸ 42	6 ¹⁸ 34	2°R26	19°R56	24 ¹⁸ 41	0 ¹⁸ 19	25°R42	26 ¹⁸ 19	10 ¹⁸ 11	2°R32	T 1
F 2	23 18 29	17°45'36	24°24	1 ¹⁸ 27	16°31	7°23	6°42	2 ¹⁸ 24	19 ¹⁸ 55	24°41	0°21	25 ¹⁸ 31	26°16	10°18	2°R31	F 2
S 3	23 22 26	18°44'14	6 ¹⁸ 56	3° 0	17°43	8° 4	6°50	2°21	19°54	24°41	0°23	25°19	26°12	10°25	2°29	S 3
S 4	23 26 22	19°42'54	19°43	4°37	18°56	8°45	6°58	2°19	19°53	24°41	0°25	25° 7	26° 9	10°31	2°27	S 4
M 5	23 30 19	20°41'36	2 ¹⁸ 43	6°16	20° 9	9°27	7° 5	2°17	19°52	24°41	0°27	24°57	26° 6	10°38	2°25	M 5
T 6	23 34 16	21°40'20	15°56	7°59	21°21	10° 8	7°13	2°15	19°51	24°42	0°29	24°49	26° 3	10°45	2°23	T 6
W 7	23 38 12	22°39'06	29°20	9°43	22°34	10°49	7°21	2°13	19°51	24°42	0°31	24°44	26° 0	10°51	2°21	W 7
T 8	23 42 9	23°37'54	12 ¹⁸ 54	11°29	23°47	11°30	7°28	2°11	19°50	24°42	0°33	24°41	25°57	10°58	2°18	T 8
F 9	23 46 5	24°36'44	26°37	13°16	25° 0	12°12	7°35	2° 9	19°49	24°42	0°35	24°D41	25°53	11° 5	2°16	F 9
S 10	23 50 2	25°35'35	10 ¹⁸ 29	15° 4	26°13	12°54	7°42	2° 7	19°49	24°43	0°37	24°41	25°50	11°12	2°14	S 10
S 11	23 53 58	26°34'28	24°30	16°53	27°26	13°35	7°49	2° 5	19°48	24°43	0°39	24°R42	25°47	11°18	2°12	S 11
M12	23 57 55	27°33'23	8 ¹⁸ 38	18°42	28°39	14°17	7°56	2° 4	19°48	24°44	0°41	24°41	25°44	11°25	2° 9	M12
T 13	0 1 51	28°32'20	22°54	20°31	29°53	14°59	8° 3	2° 2	19°48	24°44	0°43	24°39	25°41	11°32	2° 7	T 13
W14	0 5 48	29°31'18	7 ¹⁸ 31	22°20	1 ¹⁸ 6	15°41	8° 9	2° 1	19°47	24°45	0°45	24°34	25°37	11°38	2° 5	W14
T 15	0 9 45	0 ¹⁸ 30'18	21°35	24° 9	2°19	16°23	8°15	2° 0	19°47	24°45	0°47	24°27	25°34	11°45	2° 2	T 15
F 16	0 13 41	1°29'20	5 ¹⁸ 51	25°57	3°33	17° 5	8°21	1°58	19°47	24°46	0°50	24°19	25°31	11°52	2° 0	F 16
S 17	0 17 38	2°28'23	19°59	27°46	4°46	17°47	8°27	1°57	19°46	24°47	0°52	24°10	25°28	11°58	1°57	S 17
S 18	0 21 34	3°27'29	3 ¹⁸ 51	29°33	6° 0	18°29	8°33	1°56	19°46	24°47	0°54	24° 2	25°25	12° 5	1°55	S 18
M19	0 25 31	4°26'37	17°25	1 ¹⁸ 20	7°13	19°11	8°39	1°55	19°46	24°48	0°56	23°56	25°22	12°12	1°52	M19
T 20	0 29 27	5°25'47	0 ¹⁸ 38	3° 6	8°27	19°54	8°45	1°54	19°46	24°49	0°58	23°51	25°18	12°18	1°50	T 20
W21	0 33 24	6°24'59	13°30	4°52	9°41	20°36	8°50	1°54	19°D46	24°49	1° 1	23°48	25°15	12°25	1°47	W21
T 22	0 37 20	7°24'13	26° 3	6°37	10°54	21°19	8°55	1°53	19°46	24°50	1° 3	23°D48	25°12	12°32	1°44	T 22
F 23	0 41 17	8°23'30	8 ¹⁸ 18	8°21	12° 8	22° 1	9° 0	1°53	19°46	24°51	1° 5	23°49	25° 9	12°38	1°42	F 23
S 24	0 45 14	9°22'49	20°20	10° 5	13°22	22°44	9° 5	1°52	19°46	24°52	1° 8	23°50	25° 6	12°45	1°39	S 24
S 25	0 49 10	10°22'11	2 ¹⁸ 14	11°48	14°36	23°27	9°10	1°52	19°47	24°53	1°10	23°51	25° 2	12°52	1°36	S 25
M26	0 53 7	11°21'34	14° 4	13°30	15°50	24°10	9°14	1°52	19°47	24°54	1°12	23°R52	24°59	12°59	1°34	M26
T 27	0 57 3	12°21'00	25°56	15°11	17° 4	24°53	9°19	1°51	19°47	24°55	1°14	23°51	24°56	13° 5	1°31	T 27
W28	1 1 0	13°20'29	7 ¹⁸ 55	16°52	18°18	25°36	9°23	1°D51	19°47	24°56	1°17	23°48	24°53	13°12	1°28	W28
T 29	1 4 56	14°19'59	20° 6	18°32	19°32	26°19	9°27	1°52	19°48	24°57	1°19	23°43	24°50	13°19	1°25	T 29
F 30	1 8 53	15 ¹⁸ 19'32	2 ¹⁸ 30	20 ¹⁸ 11	20 ¹⁸ 46	27 ¹⁸ 2	9 ¹⁸ 31	1 ¹⁸ 52	19 ¹⁸ 48	24 ¹⁸ 58	1 ¹⁸ 21	23 ¹⁸ 37	24 ¹⁸ 47	13 ¹⁸ 25	1 ¹⁸ 22	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	5n14	12n31	4s54	12n39	1n13	16n47	0n31	14s18	0s33	23n 8	0s12	20s27	0s48	22s32	0s31	T 1
F 2	4 51	8 40	5 2	12 15	1 22	16 28	0 33	14 32	0 33	23 8	0 12	20 28	0 48	22 32	0 31	F 2
S 3	4 28	4 24	4 56	11 49	1 29	16 8	0 36	14 46	0 34	23 7	0 12	20 28	0 49	22 32	0 31	S 3
S 4	4 5	0s 8	4 35	11 19	1 35	15 48	0 39	15 0	0 35	23 7	0 12	20 29	0 49	22 32	0 31	S 4
M 5	3 42	4 45	4 0	10 47	1 40	15 28	0 41	15 14	0 35	23 7	0 12	20 30	0 49	22 33	0 31	M 5
T 6	3 19	9 13	3 11	10 13	1 44	15 7	0 44	15 28	0 36	23 6	0 12	20 30	0 49	22 33	0 31	T 6
W 7	2 55	13 18	2 11	9 37	1 48	14 46	0 47	15 41	0 37	23 6	0 12	20 31	0 49	22 33	0 31	W 7
T 8	2 32	16 45	1 3	8 58	1 50	14 24	0 49	15 55	0 37	23 6	0 12	20 31	0 49	22 33	0 31	T 8
F 9	2 9	19 17	0n10	8 18	1 51	14 2	0 51	16 8	0 38	23 5	0 12	20 31	0 49	22 33	0 31	F 9
S 10	1 45	20 42	1 24	7 37	1 52	13 39	0 54	16 22	0 38	23 5	0 12	20 32	0 49	22 33	0 31	S 10
S 11	1 22	20 51	2 33	6 54	1 52	13 16	0 56	16 35	0 39	23 5	0 12	20 32	0 49	22 33	0 31	S 11
M12	0 58	19 41	3 33	6 11	1 51	12 53	0 58	16 48	0 40	23 5	0 11	20 33	0 49	22 33	0 31	M12
T 13	0 35	17 16	4 21	5 26	1 49	12 29	1 1	17 1	0 40	23 4	0 11	20 33	0 49	22 33	0 31	T 13
W14	0 11	13 48	4 52	4 41	1 47	12 5	1 3	17 14	0 41	23 4	0 11	20 33	0 49	22 33	0 31	W14
T 15	0s12	9 31	5 6	3 56	1 44	11 41	1 5	17 26	0 41	23 4	0 11	20 34	0 49	22 33	0 31	T 15
F 16	0 36	4 44	5 0	3 10	1 41	11 16	1 7	17 39	0 42	23 3	0 11	20 34	0 49	22 33	0 31	F 16
S 17	0 59	0n15	4 36	2 37	1 38	10 51	1 9	17 52	0 43	23 3	0 11	20 34	0 49	22 33	0 31	S 17
S 18	1 23	5 8	3 56	1 23	1 34	10 26	1 10	18 4	0 43	23 3	0 11	20 34	0 49	22 33	0 31	S 18
M19	1 46	9 40	3 3	0 50	1 29	10 0	1 12	18 16	0 44	23 2	0 11	20 35	0 49	22 33	0 31	M19
T 20	2 10	13 38	2 2	0 3	1 25	9 34	1 14	18 28	0 44	23 2	0 11	20 35	0 49	22 33	0 31	T 20
W21	2 33	16 49	0 55	0s43	1 20	9 8	1 16	18 40	0 45	23 2	0 11	20 35	0 49	22 33	0 31	W21
T 22	2 57	19 7	0s12	1 30	1 14	8 41	1 17	18 52	0 45	23 2	0 11	20 35	0 49	22 33	0 31	T 22
F 23	3 20	20 28	1 18	2 16	1 9	8 14	1 19	19 4	0 46	23 1	0 11	20 35	0 49	22 33	0 31	F 23
S 24	3 44	20 51	2 19	3 2	1 3	7 47	1 20	19 15	0 46	23 1	0 10	20 35	0 49	22 33	0 31	S 24
S 25	4 7	20 16	3 13	3 48	0 57	7 20	1 22	19 27	0 47	23 1	0 10	20 35	0 49	22 33	0 31	S 25
M26	4 30	18 48	3 59	4 33	0 51	6 53	1 23	19 38	0 47	23 1	0 10	20 35	0 49	22 33	0 31	M26
T 27	4 54	16 31	4 35	5 19	0 45	6 25	1 24	19 49	0 48	23 0	0 10	20 35	0 49	22 33	0 31	T 27
W28	5 17	13 31	4 59	6 3	0 38	5 57	1 25	20 0	0 49	23 0	0 10	20 35	0 49	22 33	0 31	W28
T 29	5 40	9 55	5 10	6 47	0 32	5 29	1 26	20 10	0 49	23 0	0 10	20 35	0 49	22 33	0 31	T 29
F 30	6s 3	5n50	5s 7	7s31	0n25	5n 0	1n27	20s21	0s50	23n 0	0s10	20s35	0s49	22s33	0s31	F 30

Julian Day Number = 2265888.5, Delta T = 05m09s

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

Ayanamsha: Fagan/Bradley = 17°38'52, Lahiri = 16°45'53 Julian Calendar 1 Sept. 1491 == Greg. Calendar 10 Sept. 1491

ASTRODIENST EPHEMERIS for the year 1491

geocentric

OCTOBER 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 12 49	16♌19'07	15♏13	21♌49	22♏1	27♏45	9♏34	1♌52	19♌49	24♌59	1♏24	23°R31	24♏43	13♏32	1°R19	S 1
S 2	1 16 46	17°18'44	28°13	23°27	23°15	28°28	9°38	1°52	19°49	25° 0	1°26	23♏24	24°40	13°39	1♌17	S 2
M 3	1 20 42	18°18'24	11♌32	25° 4	24°29	29°12	9°41	1°53	19°50	25° 1	1°29	23°19	24°37	13°45	1°14	M 3
T 4	1 24 39	19°18'05	25° 7	26°41	25°44	29°55	9°44	1°53	19°51	25° 2	1°31	23°14	24°34	13°52	1°11	T 4
W 5	1 28 36	20°17'48	8♏56	28°17	26°58	0♌39	9°47	1°54	19°51	25° 3	1°33	23°12	24°31	13°59	1° 8	W 5
T 6	1 32 32	21°17'34	22°56	29°52	28°13	1°22	9°50	1°55	19°52	25° 4	1°36	23°D11	24°28	14° 5	1° 5	T 6
F 7	1 36 29	22°17'21	7♌4	1♏27	29°27	2° 6	9°52	1°56	19°53	25° 6	1°38	23°12	24°24	14°12	1° 2	F 7
S 8	1 40 25	23°17'10	21°15	3° 2	0♌42	2°50	9°54	1°57	19°54	25° 7	1°41	23°13	24°21	14°19	0°59	S 8
S 9	1 44 22	24°17'01	5♌28	4°35	1°56	3°34	9°56	1°58	19°55	25° 8	1°43	23°15	24°18	14°25	0°56	S 9
M10	1 48 18	25°16'54	19°41	6° 9	3°11	4°18	9°58	1°59	19°56	25°10	1°45	23°R15	24°15	14°32	0°53	M10
T 11	1 52 15	26°16'48	3♌50	7°41	4°25	5° 2	10° 0	2° 0	19°57	25°11	1°48	23°15	24°12	14°39	0°50	T 11
W12	1 56 11	27°16'43	17°55	9°13	5°40	5°46	10° 2	2° 2	19°58	25°12	1°50	23°14	24° 8	14°46	0°47	W12
T 13	2 0 8	28°16'41	1♌53	10°45	6°55	6°30	10° 3	2° 3	19°59	25°14	1°53	23°12	24° 5	14°52	0°44	T 13
F 14	2 4 5	29°16'39	15°42	12°16	8° 9	7°14	10° 4	2° 5	20° 0	25°15	1°55	23° 8	24° 2	14°59	0°41	F 14
S 15	2 8 1	0♏16'40	29°21	13°47	9°24	7°58	10° 5	2° 7	20° 1	25°17	1°58	23° 5	23°59	15° 6	0°38	S 15
S 16	2 11 58	1°16'42	12♏46	15°17	10°39	8°42	10° 6	2° 8	20° 2	25°18	2° 0	23° 1	23°56	15°12	0°35	S 16
M17	2 15 54	2°16'46	25°58	16°47	11°54	9°27	10° 6	2°10	20° 4	25°20	2° 2	22°59	23°53	15°19	0°32	M17
T 18	2 19 51	3°16'53	8♌53	18°16	13° 9	10°11	10° 7	2°12	20° 5	25°21	2° 5	22°57	23°49	15°26	0°29	T 18
W19	2 23 47	4°17'00	21°33	19°45	14°24	10°56	10°R 7	2°14	20° 6	25°23	2° 7	22°D56	23°46	15°32	0°26	W19
T 20	2 27 44	5°17'10	3♏58	21°13	15°38	11°40	10° 7	2°17	20° 8	25°24	2°10	22°57	23°43	15°39	0°23	T 20
F 21	2 31 40	6°17'22	16°10	22°40	16°53	12°25	10° 7	2°19	20° 9	25°26	2°12	22°58	23°40	15°46	0°20	F 21
S 22	2 35 37	7°17'36	28°11	24° 8	18° 8	13°10	10° 6	2°21	20°11	25°28	2°15	22°59	23°37	15°52	0°17	S 22
S 23	2 39 34	8°17'52	10♌4	25°34	19°23	13°54	10° 6	2°24	20°13	25°29	2°17	23° 1	23°34	15°59	0°14	S 23
M24	2 43 30	9°18'10	21°55	27° 0	20°38	14°39	10° 5	2°26	20°14	25°31	2°19	23° 2	23°30	16° 6	0°11	M24
T 25	2 47 27	10°18'29	3♏47	28°25	21°54	15°24	10° 4	2°29	20°16	25°33	2°22	23° 3	23°27	16°13	0° 8	T 25
W26	2 51 23	11°18'51	15°45	29°50	23° 9	16° 9	10° 3	2°32	20°18	25°34	2°24	23°R 3	23°24	16°19	0° 5	W26
T 27	2 55 20	12°19'15	27°54	1♌14	24°24	16°54	10° 1	2°34	20°19	25°36	2°27	23° 2	23°21	16°26	0° 2	T 27
F 28	2 59 16	13°19'40	10♏19	2°36	25°39	17°39	9°59	2°37	20°21	25°38	2°29	23° 1	23°18	16°33	29♏59	F 28
S 29	3 3 13	14°20'08	23° 2	3°58	26°54	18°24	9°58	2°40	20°23	25°40	2°31	23° 0	23°14	16°39	29°56	S 29
S 30	3 7 9	15°20'37	6♌8	5°19	28° 9	19° 9	9°56	2°44	20°25	25°42	2°34	22°59	23°11	16°46	29°53	S 30
M31	3 11 6	16♏21'08	19♌36	6♌39	29♌24	19♌54	9°53	2°47	20°27	25°43	2♏36	22♏58	23♏8	16°53	29♏50	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	6s26	1n24	4s49	8s14	0n19	4n32	1n28	20s31	0s50	23n 0	0s10	20s35	0s49	22s33	0s31	22s16	1n 9	2n53	15n50	18s42	19s 0	18n57	11n26	0s35	
S 2	6 49	3s12	4 15	8 57	0 12	4 3	1 29	20 42	0 50	22 59	0 10	20 35	0 49	22 32	0 31	22 16	1 8	2 52	15 50	18 40	18 59	18 56	11 24	0 35	
M 3	7 12	7 45	3 28	9 39	0 5	3 34	1 30	20 52	0 51	22 59	0 10	20 35	0 49	22 32	0 31	22 16	1 8	2 51	15 49	18 39	18 58	18 55	11 23	0 35	
T 4	7 34	12 2	2 27	10 21	0s 2	3 6	1 31	21 2	0 51	22 59	0 10	20 35	0 49	22 32	0 31	22 16	1 8	2 50	15 49	18 38	18 58	18 54	11 22	0 35	
W 5	7 57	15 44	1 17	11 2	0 9	2 36	1 32	21 11	0 52	22 59	0 9	20 35	0 49	22 32	0 31	22 16	1 8	2 49	15 49	18 37	18 57	18 52	11 21	0 35	
T 6	8 20	18 35	0 1	11 42	0 15	2 7	1 32	21 21	0 52	22 59	0 9	20 35	0 49	22 32	0 31	22 16	1 8	2 48	15 49	18 37	18 56	18 51	11 20	0 35	
F 7	8 42	20 19	1n15	12 21	0 22	1 38	1 33	21 30	0 53	22 59	0 9	20 34	0 49	22 32	0 30	22 17	1 8	2 47	15 49	18 37	18 55	18 50	11 19	0 35	
S 8	9 4	20 45	2 28	13 0	0 29	1 9	1 33	21 39	0 53	22 59	0 9	20 34	0 49	22 32	0 30	22 17	1 8	2 46	15 49	18 38	18 55	18 49	11 18	0 35	
S 9	9 26	19 52	3 31	13 39	0 36	0 39	1 33	21 48	0 54	22 59	0 9	20 34	0 49	22 31	0 30	22 17	1 8	2 45	15 49	18 38	18 54	18 47	11 17	0 35	
M10	9 48	17 44	4 22	14 16	0 42	0 10	1 34	21 57	0 54	22 59	0 9	20 34	0 49	22 31	0 30	22 17	1 8	2 45	15 49	18 38	18 53	18 46	11 15	0 35	
T 11	10 10	14 33	4 56	14 53	0 49	0s20	1 34	22 5	0 55	22 59	0 9	20 33	0 49	22 31	0 30	22 17	1 8	2 44	15 48	18 38	18 52	18 45	11 14	0 36	
W12	10 32	10 32	5 13	15 29	0 55	0 49	1 34	22 14	0 55	22 59	0 9	20 33	0 49	22 31	0 30	22 17	1 8	2 43	15 48	18 38	18 51	18 44	11 13	0 36	
T 13	10 53	6 0	5 10	16 4	1 2	1 19	1 34	22 22	0 55	22 59	0 9	20 33	0 49	22 31	0 30	22 17	1 8	2 42	15 48	18 37	18 51	18 42	11 12	0 36	
F 14	11 15	1 12	4 50	16 39	1 8	1 48	1 34	22 30	0 56	22 59	0 9	20 32	0 49	22 31	0 30	22 17	1 8	2 41	15 48	18 36	18 50	18 41	11 11	0 36	
S 15	11 36	3n37	4 14	17 12	1 15	2 18	1 34	22 37	0 56	22 59	0 9	20 32	0 49	22 30	0 30	22 17	1 8	2 40	15 48	18 36	18 49	18 40	11 10	0 36	
S 16	11 57	8 11	3 24	17 45	1 21	2 47	1 34	22 45	0 57	22 59	0 8	20 32	0 49	22 30	0 30	22 17	1 8	2 39	15 48	18 35	18 48	18 38	11 9	0 36	
M17	12 18	12 17	2 23	18 17	1 27	3 17	1 34	22 52	0 57	22 59	0 8	20 31	0 49	22 30	0 30	22 17	1 8	2 39	15 48	18 34	18 48	18 37	11 7	0 36	
T 18	12 38	15 43	1 17	18 48	1 33	3 46	1 33	22 59	0 57	22 59	0 8	20 31	0 49	22 30	0 30	22 18	1 8	2 38	15 48	18 34	18 47	18 36	11 6	0 36	
W19	12 59	18 19	0 8	19 18	1 38	4 16	1 33	23 6	0 58	22 59	0 8	20 30	0 49	22 30	0 30	22 18	1 8	2 37	15 48	18 33	18 46	18 35	11 5	0 36	
T 20	13 19	20 0	1s 1	19 47	1 44	4 45	1 33	23 12	0 58	22 59	0 8	20 30	0 49	22 29	0 30	22 18	1 8	2 36	15 48	18 34	18 45	18 33	11 4	0 36	
F 21	13 39	20 43	2 5	20 15	1 49	5 14	1 32	23 19	0 59	22 59	0 8	20 29	0 49	22 29	0 30	22 18	1 8	2 35	15 48	18 34	18 44	18 32	11 3	0 36	
S 22	13 59	20 27	3 3	20 42	1 54	5 43	1 32	23 25	0 59	22 59	0 8	20 29	0 49	22 29	0 30	22 18	1 8	2 35	15 48	18 34	18 44	18 31	11 2	0 37	
S 23	14 19	19 16	3 52	21 8	1 59	6 12	1 31	23 31	0 59	22 59	0 8	20 28	0 49	22 29	0 30	22 18	1 8	2 34	15 48	18 35	18 43	18 29	11 1	0 37	
M24	14 38	17 15	4 32	21 33	2 4	6 41	1 30	23 36	1 0	23 0	0 8	20 27	0 49	22 28	0 30	22 18	1 8	2 33	15 48	18 35	18 42	18 28	11 0	0 37	
T 25	14 57	14 30	4 59	21 57	2 9	7 10	1 29	23 42	1 0	23 0	0 7	20 27	0 49	22 28	0 30	22 18	1 8	2 32	15 48	18 35	18 41	18 27	10 58	0 37	
W26	15 16	11 9	5 14	22 20	2 13	7 39	1 29	23 47	1 0	23 0	0 7	20 26	0 49	22 28	0 30	22 18	1 8	2 32	15 48	18 35	18 40	18 25	10 57	0 37	
T 27	15 35	7 17	5 16	22 41	2 17	8 7	1 28	23 52	1 1	23 0	0 7	20 26	0 49	22 27	0 30	22 18	1 7	2 31	15 48	18 35	18 40	18 24	10 56	0 37	
F 28	15 53	3 3	5 3	23 2	2 20	8 36	1 27	23 56	1 1	23 0	0 7	20 25	0 49	22 27	0 30	22 18	1 7	2 30	15 48	18 35	18 39	18 23	10 55	0 37	
S 29	16 11	1s26	4 35	23 21	2 23	9 4	1 26	24 1	1 1	23 1	0 7	20 24	0 49	22 27	0 30	22 19	1 7	2 30	15 48	18 34	18 38	18 21	10 54	0 37	
S 30	16 29	5 59	3 52	23 39	2 26	9 32	1 25	24 5	1 2	23 1	0 7	20 23	0 49	22 27	0 30	22 19	1 7	2 29	15 48	18 34	18 37	18 20	10 53	0 37	
M31	16s46	10s23	2s55	23s55	2s29	9s59	1n24	24s 9	1s 2	23n 1	0s 7	20s23	0s49	22s26	0s30	22s19	1n 7	2n28	15n49	18s34	18s36	18n19	10n52	0s37	

ASTRODIENST EPHEMERIS for the year 1491

geocentric

DECEMBER 1491 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 13 19	17°47'28	10°16	8°R56	8°22	13°42	7°R17	5°7	21°47	26°48	3°44	22°R53	21°M30	20°20	28°R37	T 1
F 2	5 17 16	18°48'35	25°14	7°56	9°37	14°29	7°9	5°12	21°50	26°50	3°46	22°M50	21°26	20°27	28°Y35	F 2
S 3	5 21 12	19°49'44	10°20	7° 7	10°53	15°16	7° 2	5°18	21°53	26°53	3°47	22°47	21°23	20°34	28°34	S 3
S 4	5 25 9	20°50'52	25°24	6°28	12° 8	16° 3	6°54	5°24	21°56	26°55	3°49	22°43	21°20	20°41	28°32	S 4
M 5	5 29 5	21°52'02	10°17	6° 0	13°24	16°49	6°47	5°30	21°59	26°57	3°51	22°39	21°17	20°47	28°31	M 5
T 6	5 33 2	22°53'11	24°52	5°43	14°39	17°36	6°39	5°36	22° 2	27° 0	3°53	22°35	21°14	20°54	28°29	T 6
W 7	5 36 59	23°54'20	9°4	5°D37	15°55	18°23	6°31	5°41	22° 6	27° 2	3°55	22°33	21°11	21° 1	28°28	W 7
T 8	5 40 55	24°55'29	22°52	5°40	17°10	19°10	6°24	5°47	22° 9	27° 4	3°56	22°D32	21° 7	21° 7	28°26	T 8
F 9	5 44 52	25°56'39	6°Y16	5°52	18°26	19°57	6°16	5°53	22°12	27° 6	3°58	22°32	21° 4	21°14	28°25	F 9
S 10	5 48 48	26°57'48	19°20	6°13	19°41	20°44	6° 8	6° 0	22°15	27° 9	4° 0	22°34	21° 1	21°21	28°24	S 10
S 11	5 52 45	27°58'57	2°8	6°40	20°57	21°31	6° 0	6° 6	22°19	27°11	4° 1	22°35	20°58	21°27	28°23	S 11
M12	5 56 41	29° 0'07	14°34	7°15	22°12	22°18	5°52	6°12	22°22	27°13	4° 3	22°37	20°55	21°34	28°22	M12
T 13	6 0 38	0°3	1'16	26°52	7°56	23°28	23° 5	5°44	6°18	22°25	27°15	4° 5	22°R37	20°51	21°41	T 13
W14	6 4 34	1° 2'26	9°II	8°42	24°43	23°52	5°36	6°24	22°29	27°18	4° 6	22°35	20°48	21°48	28°20	W14
T 15	6 8 31	2° 3'35	21° 2	9°33	25°59	24°39	5°28	6°31	22°32	27°20	4° 8	22°32	20°45	21°54	28°19	T 15
F 16	6 12 28	3° 4'45	2°59	10°28	27°14	25°27	5°20	6°37	22°35	27°22	4° 9	22°26	20°42	22° 1	28°18	F 16
S 17	6 16 24	4° 5'55	14°53	11°26	28°30	26°14	5°11	6°44	22°39	27°24	4°11	22°19	20°39	22° 8	28°17	S 17
S 18	6 20 21	5° 7'04	26°44	12°29	29°45	27° 1	5° 3	6°50	22°42	27°27	4°12	22°11	20°36	22°14	28°16	S 18
M19	6 24 17	6° 8'14	8°26	13°34	1°3	27°48	4°55	6°56	22°45	27°29	4°14	22° 2	20°32	22°21	28°15	M19
T 20	6 28 14	7° 9'24	20°29	14°41	2°16	28°35	4°47	7° 3	22°49	27°31	4°15	21°53	20°29	22°28	28°15	T 20
W21	6 32 10	8°10'33	2°27	15°52	3°32	29°23	4°39	7°10	22°52	27°33	4°16	21°46	20°26	22°35	28°14	W21
T 22	6 36 7	9°11'43	14°32	17° 4	4°47	0°10	4°31	7°16	22°56	27°36	4°18	21°41	20°23	22°41	28°14	T 22
F 23	6 40 4	10°12'53	26°49	18°18	6° 3	0°57	4°23	7°23	22°59	27°38	4°19	21°38	20°20	22°48	28°13	F 23
S 24	6 44 0	11°14'03	9°22	19°34	7°18	1°44	4°15	7°30	23° 3	27°40	4°20	21°D36	20°17	22°55	28°13	S 24
S 25	6 47 57	12°15'13	22°14	20°51	8°34	2°32	4° 7	7°36	23° 6	27°42	4°21	21°37	20°13	23° 1	28°13	S 25
M26	6 51 53	13°16'23	5°M31	22°10	9°49	3°19	3°59	7°43	23°10	27°45	4°23	21°38	20°10	23° 8	28°12	M26
T 27	6 55 50	14°17'33	19°14	23°30	11° 5	4° 6	3°51	7°50	23°13	27°47	4°24	21°R39	20° 7	23°15	28°12	T 27
W28	6 59 46	15°18'43	3°27	24°51	12°20	4°54	3°43	7°57	23°17	27°49	4°25	21°38	20° 4	23°21	28°12	W28
T 29	7 3 43	16°19'52	18° 6	26°13	13°36	5°41	3°35	8° 3	23°20	27°51	4°26	21°35	20° 1	23°28	28°12	T 29
F 30	7 7 39	17°21'02	3°3	27°36	14°51	6°29	3°28	8°10	23°24	27°53	4°27	21°30	19°57	23°35	28°D12	F 30
S 31	7 11 36	18°22'11	18°25	29°0	16°3	7°16	3°20	8°17	23°27	27°56	4°28	21°M23	19°M54	23°24	28°Y12	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s56	20s30	1n34	19s17	2n36	21s21	0n25	23s55	1s 8	23n15	0s 3	19s50	0s49	22s13	0s30	22s21
F 2	23 2	20 37	2 48	18 59	2 45	21 35	0 23	23 51	1 8	23 16	0 3	19 48	0 49	22 13	0 30	22 21
S 3	23 7	19 15	3 52	18 45	2 51	21 48	0 20	23 45	1 8	23 16	0 3	19 47	0 49	22 12	0 30	22 21
S 4	23 11	16 33	4 38	18 34	2 55	22 1	0 18	23 40	1 8	23 17	0 2	19 46	0 49	22 12	0 30	22 21
M 5	23 15	12 48	5 6	18 27	2 58	22 13	0 16	23 34	1 8	23 17	0 2	19 44	0 49	22 11	0 30	22 22
T 6	23 19	8 21	5 13	18 24	2 58	22 24	0 13	23 28	1 8	23 18	0 2	19 43	0 49	22 11	0 30	22 22
W 7	23 22	3 33	5 0	18 24	2 57	22 35	0 11	23 22	1 8	23 19	0 2	19 41	0 49	22 10	0 30	22 22
T 8	23 24	1n18	4 30	18 27	2 55	22 45	0 8	23 15	1 8	23 19	0 2	19 40	0 49	22 10	0 30	22 22
F 9	23 26	5 58	3 47	18 32	2 51	22 54	0 6	23 9	1 8	23 20	0 2	19 38	0 49	22 9	0 30	22 22
S 10	23 28	10 14	2 52	18 41	2 46	23 3	0 4	23 2	1 8	23 20	0 2	19 37	0 49	22 9	0 30	22 22
S 11	23 29	13 57	1 50	18 51	2 40	23 11	0 1	22 54	1 9	23 21	0 1	19 35	0 49	22 8	0 30	22 22
M12	23 30	16 57	0 44	19 3	2 34	23 18	0s 1	22 47	1 9	23 21	0 1	19 34	0 49	22 8	0 30	22 22
T 13	23 30	19 8	0s23	19 16	2 27	23 24	0 4	22 39	1 9	23 22	0 1	19 32	0 49	22 7	0 30	22 22
W14	23 30	20 25	1 28	19 31	2 20	23 30	0 6	22 31	1 9	23 22	0 1	19 31	0 49	22 7	0 30	22 22
T 15	23 29	20 44	2 28	19 46	2 12	23 35	0 9	22 22	1 8	23 23	0 1	19 29	0 49	22 6	0 30	22 22
F 16	23 28	20 7	3 21	20 2	2 4	23 39	0 11	22 14	1 8	23 23	0 1	19 28	0 49	22 6	0 30	22 22
S 17	23 26	18 36	4 5	20 18	1 56	23 43	0 13	22 5	1 8	23 24	0 1	19 26	0 49	22 5	0 30	22 22
S 18	23 24	16 18	4 38	20 35	1 47	23 46	0 16	21 56	1 8	23 24	0 0	19 24	0 49	22 4	0 30	22 22
M19	23 22	13 20	5 0	20 51	1 39	23 48	0 18	21 46	1 8	23 24	0 0	19 23	0 49	22 4	0 30	22 22
T 20	23 19	9 50	5 8	21 8	1 30	23 49	0 20	21 37	1 8	23 25	0 0	19 21	0 49	22 3	0 30	22 22
W21	23 15	5 55	5 3	21 24	1 21	23 50	0 23	21 27	1 8	23 25	0n 0	19 19	0 49	22 3	0 30	22 22
T 22	23 11	1 44	4 44	21 40	1 13	23 50	0 25	21 17	1 8	23 26	0 0	19 18	0 49	22 2	0 30	22 22
F 23	23 7	2s35	4 12	21 56	1 4	23 49	0 27	21 6	1 8	23 26	0 0	19 16	0 49	22 2	0 30	22 22
S 24	23 2	6 54	3 28	22 10	0 55	23 48	0 30	20 56	1 8	23 27	0 0	19 14	0 49	22 1	0 30	22 23
S 25	22 56	11 1	2 32	22 25	0 47	23 45	0 32	20 45	1 8	23 27	0 1	19 13	0 49	22 0	0 30	22 23
M26	22 50	14 44	1 26	22 38	0 38	23 42	0 34	20 34	1 8	23 27	0 1	19 11	0 49	22 0	0 30	22 23
T 27	22 44	17 47	0 13	22 51	0 30	23 38	0 36	20 23	1 8	23 28	0 1	19 9	0 49	21 59	0 30	22 23
W28	22 37	19 52	1n 3	23 2	0 22	23 34	0 38	20 11	1 8	23 28	0 1	19 8	0 49	21 59	0 30	22 23
T 29	22 30	20 42	2 17	23 13	0 14	23 29	0 40	19 59	1 8	23 28	0 1	19 6	0 49	21 58	0 30	22 23
F 30	22 22	20 5	3 23	23 23	0 6	23 23	0 42	19 48	1 7	23 29	0 1	19 4	0 49	21 57	0 30	22 23
S 31	22s14	18s 0	4n16	23s32	0s 2	23s16	0s45	19s35	1s 7	23n29	0n 1	19s 2	0s50	21s57	0s30	22s23

Julian Day Number = 2265979.5, Delta T = 05m08s

Ecliptic obliquity = 23°30'13, Nutation = 0°00'13, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 17°39'05, Lahiri = 16°46'05 Julian Calendar 1 Dec. 1491 == Greg. Calendar 10 Dec. 1491