



Astrodienst Ephemeris Tables for the year 1428

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 1428

geocentric

JANUARY 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 13 34	18°55'00	26°11' 9	20°31' 11	11°35' 56	0°25' 25	0°36' 36	16°33' 33	9°7' 7	8°51' 51	3°41' 41	28°22' 22	27°42' 42	29°39' 39	27°55' 55	T 1
F 2	7 17 30	19°56'05	9°28' 0	21°52' 13	13°12' 12	1°13' 13	0°50' 50	16°39' 39	9°8' 8	8°49' 49	3°40' 40	28°10' 10	27°39' 39	29°45' 45	27°57' 57	F 2
S 3	7 21 27	20°57'10	22°9' 9	23°33' 33	14°27' 27	2°0' 0	1°4' 4	16°45' 45	9°9' 9	8°47' 47	3°39' 39	27°56' 56	27°36' 36	29°52' 52	28°1' 1	S 3
S 4	7 25 24	21°58'14	5°23' 33	25°15' 15	15°43' 43	2°47' 47	1°19' 19	16°52' 52	9°11' 11	8°46' 46	3°37' 37	27°43' 43	27°33' 33	29°59' 59	28°4' 4	S 4
M 5	7 29 20	22°59'17	19°11' 11	26°57' 57	16°58' 58	3°35' 35	1°33' 33	16°58' 58	9°12' 12	8°44' 44	3°36' 36	27°31' 31	27°30' 30	0°8' 5	28°7' 7	M 5
T 6	7 33 17	24°0'19	2°17' 59	28°40' 40	18°13' 13	4°22' 22	1°47' 47	17°4' 4	9°13' 13	8°43' 43	3°35' 35	27°21' 21	27°27' 27	0°12' 12	28°11' 11	T 6
W 7	7 37 13	25°1'21	16°54' 54	0°23' 23	19°29' 29	5°9' 9	2°1' 1	17°10' 10	9°15' 15	8°41' 41	3°34' 34	27°14' 14	27°23' 23	0°19' 19	28°14' 14	W 7
T 8	7 41 10	26°2'22	0°53' 53	2°7' 7	20°44' 44	5°57' 57	2°15' 15	17°16' 16	9°16' 16	8°39' 39	3°33' 33	27°11' 11	27°20' 20	0°25' 25	28°18' 18	T 8
F 9	7 45 6	27°3'23	14°55' 55	3°51' 51	21°59' 59	6°44' 44	2°30' 30	17°22' 22	9°18' 18	8°38' 38	3°32' 32	27°9' 9	27°17' 17	0°32' 32	28°21' 21	F 9
S 10	7 49 3	28°4'23	28°59' 59	5°36' 36	23°15' 15	7°32' 32	2°44' 44	17°28' 28	9°19' 19	8°36' 36	3°31' 31	27°9' 9	27°14' 14	0°38' 38	28°25' 25	S 10
S 11	7 52 59	29°5'22	13°11' 4	7°20' 20	24°30' 30	8°19' 19	2°58' 58	17°34' 34	9°21' 21	8°34' 34	3°29' 29	27°9' 9	27°11' 11	0°45' 45	28°28' 28	S 11
M 12	7 56 56	0°6'21	27°9' 9	9°5' 5	25°46' 46	9°7' 7	3°12' 12	17°40' 40	9°22' 22	8°33' 33	3°28' 28	27°7' 7	27°8' 8	0°52' 52	28°32' 32	M 12
T 13	8 0 53	1°7'19	11°11' 14	10°50' 50	27°1' 1	9°54' 54	3°27' 27	17°46' 46	9°24' 24	8°31' 31	3°27' 27	27°3' 3	27°4' 4	0°58' 58	28°36' 36	T 13
W 14	8 4 49	2°8'17	25°16' 16	12°35' 35	28°16' 16	10°41' 41	3°41' 41	17°51' 51	9°26' 26	8°29' 29	3°26' 26	26°55' 55	27°1' 1	1°5' 5	28°39' 39	W 14
T 15	8 8 46	3°9'14	9°31' 11	14°20' 20	29°32' 32	11°29' 29	3°55' 55	17°57' 57	9°28' 28	8°28' 28	3°25' 25	26°45' 45	26°58' 58	1°12' 12	28°43' 43	T 15
F 16	8 12 42	4°10'10	22°56' 56	16°5' 5	0°47' 47	12°16' 16	4°9' 9	18°3' 3	9°30' 30	8°26' 26	3°24' 24	26°33' 33	26°55' 55	1°18' 18	28°47' 47	F 16
S 17	8 16 39	5°11'04	6°28' 28	17°48' 48	2°2' 2	13°4' 4	4°24' 24	18°8' 8	9°31' 31	8°24' 24	3°23' 23	26°19' 19	26°52' 52	1°25' 25	28°50' 50	S 17
S 18	8 20 35	6°11'58	19°42' 42	19°32' 32	3°17' 17	13°51' 51	4°38' 38	18°14' 14	9°33' 33	8°23' 23	3°22' 22	26°6' 6	26°48' 48	1°32' 32	28°54' 54	S 18
M 19	8 24 32	7°12'50	2°38' 38	21°13' 13	4°33' 33	14°39' 39	4°52' 52	18°19' 19	9°35' 35	8°21' 21	3°21' 21	25°55' 55	26°45' 45	1°38' 38	28°58' 58	M 19
T 20	8 28 28	8°13'40	15°15' 15	22°54' 54	5°48' 48	15°26' 26	5°7' 7	18°24' 24	9°37' 37	8°19' 19	3°20' 20	25°46' 46	26°42' 42	1°45' 45	29°2' 2	T 20
W 21	8 32 25	9°14'30	27°34' 34	24°32' 32	7°3' 3	16°14' 14	5°21' 21	18°30' 30	9°39' 39	8°18' 18	3°19' 19	25°40' 40	26°39' 39	1°52' 52	29°5' 5	W 21
T 22	8 36 22	10°15'18	9°38' 38	26°8' 8	8°19' 19	17°1' 1	5°35' 35	18°35' 35	9°41' 41	8°16' 16	3°18' 18	25°37' 37	26°36' 36	1°58' 58	29°9' 9	T 22
F 23	8 40 18	11°16'04	21°32' 32	27°42' 42	9°34' 34	17°49' 49	5°49' 49	18°40' 40	9°43' 43	8°14' 14	3°17' 17	25°D36' 36	26°33' 33	2°5' 5	29°13' 13	F 23
S 24	8 44 15	12°16'49	3°20' 20	29°12' 12	10°49' 49	18°36' 36	6°4' 4	18°45' 45	9°46' 46	8°13' 13	3°16' 16	25°36' 36	26°29' 29	2°11' 11	29°17' 17	S 24
S 25	8 48 11	13°17'32	15°8' 8	0°38' 38	12°4' 4	19°24' 24	6°18' 18	18°50' 50	9°48' 48	8°11' 11	3°15' 15	25°R36' 36	26°26' 26	2°18' 18	29°21' 21	S 25
M 26	8 52 8	14°18'13	27°2' 2	1°59' 59	13°19' 19	20°11' 11	6°32' 32	18°55' 55	9°50' 50	8°9' 9	3°14' 14	25°35' 35	26°23' 23	2°25' 25	29°25' 25	M 26
T 27	8 56 4	15°18'53	9°11' 6	3°15' 15	14°35' 35	20°58' 58	6°46' 46	19°0' 0	9°52' 52	8°7' 7	3°13' 13	25°32' 32	26°20' 20	2°31' 31	29°29' 29	T 27
W 28	9 0 1	16°19'31	21°25' 25	4°25' 25	15°50' 50	21°46' 46	7°1' 1	19°5' 5	9°55' 55	8°6' 6	3°12' 12	25°27' 27	26°17' 17	2°38' 38	29°32' 32	W 28
T 29	9 3 57	17°20'08	4°48' 48	5°28' 28	17°5' 5	22°33' 33	7°15' 15	19°10' 10	9°57' 57	8°4' 4	3°12' 12	25°20' 20	26°14' 14	2°45' 45	29°36' 36	T 29
F 30	9 7 54	18°20'43	17°5' 5	6°23' 23	18°20' 20	23°21' 21	7°29' 29	19°15' 15	9°59' 59	8°2' 2	3°11' 11	25°10' 10	26°10' 10	2°51' 51	29°40' 40	F 30
S 31	9 11 51	19°21'16	0°29' 29	7°11' 11	19°35' 35	24°28' 28	7°43' 43	19°19' 19	10°1' 1	8°1' 1	3°10' 10	24°59' 59	26°7' 7	2°58' 58	29°44' 44	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	22s11	27n42	4n15	24s 0	2s 2	23s30	0s31	21s11	1s 6	20s36	0s32	21s30	1n20	3n 1	0s39	18n11
F 2	22 2	27 56	4 44	23 46	2 3	23 25	0 33	21 1	1 6	20 33	0 32	21 31	1 20	3 2	0 39	18 12
S 3	21 53	26 36	4 59	23 30	2 4	23 19	0 36	20 51	1 6	20 30	0 32	21 32	1 20	3 2	0 39	18 12
S 4	21 43	23 44	4 57	23 12	2 5	23 13	0 38	20 40	1 6	20 27	0 32	21 32	1 20	3 3	0 39	18 13
M 5	21 33	19 32	4 39	22 53	2 5	23 6	0 40	20 29	1 6	20 24	0 32	21 33	1 20	3 3	0 39	18 13
T 6	21 23	14 15	4 5	22 31	2 5	22 58	0 42	20 17	1 6	20 21	0 32	21 33	1 20	3 4	0 39	18 14
W 7	21 12	8 11	3 15	22 9	2 4	22 49	0 44	20 6	1 6	20 18	0 32	21 34	1 20	3 5	0 39	18 14
T 8	21 0	1 42	2 14	21 44	2 2	22 40	0 46	19 54	1 6	20 15	0 32	21 35	1 20	3 5	0 39	18 15
F 9	20 49	4s54	1 4	21 18	2 1	22 30	0 48	19 42	1 6	20 12	0 32	21 35	1 20	3 6	0 39	18 15
S 10	20 37	11 18	0s10	20 51	1 58	22 20	0 50	19 30	1 6	20 8	0 32	21 36	1 20	3 6	0 39	18 15
S 11	20 24	17 8	1 23	20 21	1 55	22 8	0 52	19 18	1 6	20 5	0 33	21 36	1 20	3 7	0 39	18 16
M 12	20 12	22 2	2 31	19 50	1 52	21 57	0 54	19 5	1 6	20 2	0 33	21 37	1 20	3 8	0 39	18 16
T 13	19 58	25 40	3 30	19 18	1 48	21 44	0 56	18 53	1 6	19 59	0 33	21 37	1 20	3 8	0 39	18 17
W 14	19 45	27 42	4 16	18 44	1 43	21 31	0 57	18 40	1 5	19 55	0 33	21 38	1 20	3 9	0 39	18 17
T 15	19 31	27 58	4 46	18 8	1 38	21 17	0 59	18 26	1 5	19 52	0 33	21 38	1 20	3 10	0 39	18 18
F 16	19 17	26 29	5 0	17 31	1 32	21 2	1 1	18 13	1 5	19 49	0 33	21 39	1 20	3 11	0 39	18 18
S 17	19 7	23 29	4 56	16 53	1 25	20 47	1 3	17 59	1 5	19 45	0 33	21 39	1 20	3 11	0 39	18 19
S 18	18 47	19 19	4 36	16 14	1 17	20 31	1 4	17 46	1 5	19 42	0 33	21 40	1 20	3 12	0 39	18 19
M 19	18 32	14 19	4 2	15 34	1 9	20 15	1 6	17 32	1 5	19 39	0 33	21 40	1 20	3 13	0 39	18 19
T 20	18 16	8 51	3 16	14 52	1 0	19 58	1 7	17 18	1 5	19 35	0 33	21 40	1 20	3 14	0 39	18 20
W 21	18 0	3 9	2 23	14 10	0 50	19 40	1 9	17 3	1 5	19 32	0 33	21 41	1 20	3 15	0 39	18 20
T 22	17 44	2n33	1 24	13 28	0 40	19 22	1 10	16 49	1 5	19 29	0 34	21 41	1 20	3 15	0 39	18 21
F 23	17 27	8 5	0 22	12 45	0 28	19 4	1 11	16 34	1 5	19 25	0 34	21 42	1 21	3 16	0 39	18 21
S 24	17 10	13 19	0n41	12 2	0 16	18 44	1 13	16 19	1 5	19 22	0 34	21 42	1 21	3 17	0 39	18 22
S 25	16 53	18 3	1 42	11 20	0 3	18 25	1 14	16 4	1 4	19 18	0 34	21 42	1 21	3 18	0 39	18 22
M 26	16 35	22 8	2 39	10 39	0n10	18 4	1 15	15 49	1 4	19 15	0 34	21 43	1 21	3 19	0 39	18 23
T 27	16 18	25 20	3 30	9 58	0 25	17 44	1 16	15 34	1 4	19 11	0 34	21 43	1 21	3 20	0 39	18 23
W 28	16 0	27 25	4 12	9 19	0 39	17 22	1 17	15 18	1 4	19 8	0 34	21 43	1 21	3 21	0 38	18 23
T 29	15 41	28 10	4 43	8 42	0 55	17 1	1 18	15 3	1 4	19 4	0 34	21 44	1 21	3 22	0 38	18 24
F 30	15 23	27 23	5 0	8 7	1 10	16 38	1 19	14 47	1 4	19 1	0 34	21 44	1 21	3 23	0 38	18 24
S 31	15s 4	25n 1	5n 1	7s34	1n26	16s16	1s20	14s31	1s 3	18s57	0s34	21s44	1n21	3n24	0s38	18n25

Julian Day Number = 2242634.5, Delta T = 07m08s

Ecliptic obliqu

ASTRODIENST EPHEMERIS for the year 1428

FEBRUARY 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	9 15 47	20 22 21'47	14 12 13	7 5 49	20 20 50	24 22 55	7 8 57	19 19 24	10 10 Y 4	7 7 R59	3 3 R 9	24 24 R47	26 26 Y 4	3 3 Y 5	29 29 48	S 1
M 2	9 19 44	21°22'17	28°16	8°18	22° 5	25°43	8°11	19°28	10° 7	7 7 Ω58	3 3 Ω 8	24 24 Y37	26° 1	3°11	29°52	M 2
T 3	9 23 40	22°22'45	12 12 31	8°38	23°21	26°30	8°25	19°33	10° 9	7°56	3° 8	24°29	25°58	3°18	29°56	T 3
W 4	9 27 37	23°23'12	26°53	8°R47	24°36	27°18	8°40	19°37	10°12	7°54	3° 7	24°23	25°54	3°25	29°59	W 4
T 5	9 31 33	24°23'37	11 11 17	8°47	25°51	28° 5	8°54	19°41	10°15	7°53	3° 6	24°20	25°51	3°31	0 0 Y 4	T 5
F 6	9 35 30	25°24'01	25°38	8°36	27° 6	28°52	9° 8	19°45	10°17	7°51	3° 5	24°D20	25°48	3°38	0° 8	F 6
S 7	9 39 26	26°24'23	9 9 Ω54	8°15	28°21	29°40	9°22	19°50	10°20	7°49	3° 5	24°20	25°45	3°45	0°12	S 7
S 8	9 43 23	27°24'44	24° 2	7°46	29°36	0 0 Y27	9°36	19°54	10°23	7°48	3° 4	24°R21	25°42	3°51	0°16	S 8
M 9	9 47 20	28°25'04	8 8 Y 1	7° 8	0 0 Y51	1°14	9°50	19°58	10°25	7°46	3° 3	24°21	25°39	3°58	0°20	M 9
T 10	9 51 16	29°25'22	21°51	6°22	2° 6	2° 2	10° 3	20° 1	10°28	7°45	3° 3	24°18	25°35	4° 4	0°24	T 10
W 11	9 55 13	0 0 Y25'39	5 5 Ω32	5°30	3°21	2°49	10°17	20° 5	10°31	7°43	3° 2	24°14	25°32	4°11	0°28	W 11
T 12	9 59 9	1°25'54	19° 2	4°33	4°36	3°36	10°31	20° 9	10°34	7°42	3° 2	24° 7	25°29	4°18	0°32	T 12
F 13	10 3 6	2°26'08	2 2 21	3°33	5°51	4°23	10°45	20°13	10°36	7°40	3° 1	23°58	25°26	4°24	0°36	F 13
S 14	10 7 2	3°26'19	15°27	2°30	7° 6	5°11	10°59	20°16	10°39	7°39	3° 1	23°49	25°23	4°31	0°40	S 14
S 15	10 10 59	4°26'29	28°20	1°28	8°21	5°58	11°12	20°20	10°42	7°37	3° 0	23°40	25°19	4°38	0°44	S 15
M 16	10 14 55	5°26'37	10 10 Y59	0°26	9°36	6°45	11°26	20°23	10°45	7°36	3° 0	23°32	25°16	4°44	0°48	M 16
T 17	10 18 52	6°26'44	23°23	29 29 27	10°50	7°32	11°40	20°26	10°48	7°34	2°59	23°25	25°13	4°51	0°52	T 17
W 18	10 22 49	7°26'48	5Y35	28°31	12° 5	8°19	11°53	20°29	10°51	7°33	2°59	23°21	25°10	4°58	0°56	W 18
T 19	10 26 45	8°26'50	17°35	27°39	13°20	9° 6	12° 7	20°32	10°54	7°31	2°58	23°D20	25° 7	5° 4	1° 0	T 19
F 20	10 30 42	9°26'50	29°28	26°53	14°35	9°54	12°21	20°35	10°57	7°30	2°58	23°20	25° 4	5°11	1° 3	F 20
S 21	10 34 38	10°26'48	11 11 Y15	26°13	15°50	10°41	12°34	20°38	11° 0	7°29	2°57	23°21	25° 0	5°18	1° 7	S 21
S 22	10 38 35	11°26'44	23° 3	25°39	17° 5	11°28	12°47	20°41	11° 3	7°27	2°57	23°22	24°57	5°24	1°11	S 22
M 23	10 42 31	12°26'38	4 4 Ω56	25°11	18°19	12°15	13° 1	20°44	11° 6	7°26	2°57	23°24	24°54	5°31	1°15	M 23
T 24	10 46 28	13°26'29	16°59	24°50	19°34	13° 2	13°14	20°47	11°10	7°25	2°56	23°R24	24°51	5°38	1°19	T 24
W 25	10 50 24	14°26'18	29°17	24°36	20°49	13°49	13°27	20°49	11°13	7°23	2°56	23°23	24°48	5°44	1°23	W 25
T 26	10 54 21	15°26'05	11 11 Ω55	24°28	22° 4	14°36	13°41	20°52	11°16	7°22	2°56	23°20	24°45	5°51	1°27	T 26
F 27	10 58 18	16°25'50	24°57	24°D26	23°18	15°23	13°54	20°54	11°19	7°21	2°56	23°15	24°41	5°57	1°31	F 27
S 28	11 2 14	17°25'32	8 8 Ω24	24°30	24°33	16° 9	14° 7	20°56	11°22	7°20	2°55	23°10	24°38	6° 4	1°35	S 28
S 29	11 6 11	18 18 Y25'13	22 22 Ω17	24 24 40	25 25 Y48	16 16 Y56	14 14 20	20 20 Y59	11 11 Y25	7 7 Ω19	2 2 Ω55	23 23 Y 4	24 24 Y35	6 6 Ω11	1 1 Y39	S 29

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	14s45	21n10	4n46	7s 5	1n42	15s52	1s21	14s15	1 s 3	18s54	0s35	21s45	1n21	3n25	0s38	18n25	0n 6	20n50	2s39	9n38	10n 6	13n10	6s34	5n21
M 2	14 25	16 4	4 13	6 40	1 58	15 29	1 22	13 59	1 3	18 50	0 35	21 45	1 21	3 26	0 38	18 26	0 6	20 50	2 39	9 34	10 5	13 13	6 33	5 21
T 3	14 6	10 1	3 24	6 18	2 13	15 5	1 23	13 42	1 3	18 46	0 35	21 45	1 21	3 27	0 38	18 26	0 6	20 50	2 39	9 31	10 4	13 16	6 31	5 21
W 4	13 46	3 24	2 21	6 0	2 28	14 40	1 23	13 26	1 3	18 43	0 35	21 46	1 21	3 28	0 38	18 27	0 6	20 50	2 39	9 29	10 2	13 19	6 30	5 21
T5	13 26	3s25	1 9	5 47	2 43	14 15	1 24	13 9	1 3	18 39	0 35	21 46	1 21	3 29	0 38	18 27	0 6	20 50	2 38	9 28	10 1	13 23	6 29	5 20
F 6	13 6	10 3	0s 7	5 39	2 56	13 50	1 24	12 53	1 2	18 36	0 35	21 46	1 21	3 30	0 38	18 27	0 6	20 50	2 38	9 28	10 0	13 26	6 28	5 20
S 7	12 45	16 8	1 22	5 35	3 8	13 25	1 25	12 36	1 2	18 32	0 35	21 46	1 21	3 31	0 38	18 28	0 6	20 51	2 38	9 28	9 59	13 29	6 26	5 20
S 8	12 25	21 18	2 32	5 36	3 19	12 59	1 25	12 19	1 2	18 28	0 35	21 47	1 21	3 32	0 38	18 28	0 6	20 51	2 38	9 28	9 58	13 32	6 25	5 20
M 9	12 4	25 12	3 32	5 42	3 28	12 32	1 26	12 2	1 2	18 25	0 35	21 47	1 21	3 33	0 38	18 29	0 6	20 51	2 38	9 28	9 57	13 35	6 24	5 20
T10	11 43	27 34	4 19	5 52	3 36	12 6	1 26	11 45	1 1	18 21	0 36	21 47	1 21	3 34	0 38	18 29	0 6	20 51	2 38	9 27	9 55	13 38	6 22	5 20
W11	11 21	28 14	4 50	6 6	3 41	11 39	1 26	11 27	1 1	18 18	0 36	21 47	1 21	3 35	0 38	18 29	0 6	20 51	2 38	9 25	9 54	13 41	6 21	5 20
T12	11 0	27 11	5 5	6 24	3 44	11 12	1 26	11 10	1 1	18 14	0 36	21 48	1 22	3 37	0 38	18 30	0 6	20 51	2 38	9 23	9 53	13 44	6 20	5 20
F13	10 38	24 37	5 3	6 45	3 45	10 44	1 26	10 52	1 1	18 10	0 36	21 48	1 22	3 38	0 38	18 30	0 6	20 51	2 38	9 20	9 52	13 47	6 18	5 20
S14	10 17	20 47	4 45	7 8	3 44	10 16	1 26	10 35	1 0	18 7	0 36	21 48	1 22	3 39	0 38	18 31	0 6	20 51	2 37	9 16	9 51	13 50	6 17	5 20
S15	9 55	16 2	4 13	7 33	3 40	9 48	1 26	10 17	1 0	18 3	0 36	21 48	1 22	3 40	0 38	18 31	0 6	20 52	2 37	9 13	9 50	13 53	6 16	5 20
M16	9 33	10 41	3 28	8 0	3 35	9 20	1 26	9 59	1 0	17 59	0 36	21 48	1 22	3 41	0 38	18 31	0 6	20 52	2 37	9 10	9 48	13 56	6 14	5 20
T17	9 11	5 0	2 35	8 28	3 28	8 51	1 26	9 41	1 0	17 56	0 36	21 49	1 22	3 42	0 38	18 32	0 6	20 52	2 37	9 8	9 47	14 0	6 13	5 20
W18	8 48	0n47	1 35	8 55	3 19	8 22	1 26	9 23	0 59	17 52	0 37	21 49	1 22	3 44	0 38	18 32	0 6	20 52	2 37	9 6	9 46	14 3	6 11	5 20
T19	8 26	6 27	0 31	9 23	3 8	7 53	1 25	9 5	0 59	17 48	0 37	21 49	1 22	3 45	0 38	18 33	0 6	20 52	2 37	9 5	9 45	14 6	6 10	5 20
F20	8 3	11 50	0n33	9 49	2 57	7 24	1 25	8 47	0 59	17 44	0 37	21 49	1 22	3 46	0 38	18 33	0 6	20 52	2 37	9 5	9 44	14 9	6 9	5 20
S21	7 40	16 46	1 36	10 14	2 44	6 54	1 25	8 29	0 58	17 41	0 37	21 49	1 22	3 47	0 38	18 33	0 6	20 52	2 37	9 6	9 43	14 12	6 7	5 20
S22	7 18	21 5	2 34	10 38	2 31	6 25	1 24	8 11	0 58	17 37	0 37	21 49	1 22	3 48	0 38	18 34	0 6	20 52	2 37	9 6	9 41	14 15	6 6	5 20
M23	6 55	24 35	3 27	11 1	2 17	5 55	1 24	7 53	0 58	17 33	0 37	21 49	1 22	3 50	0 38	18 34	0 6	20 53	2 36	9 7	9 40	14 18	6 5	5 20
T24	6 32	27 2	4 11	11 21	2 3	5 25	1 23	7 34	0 57	17 30	0 37	21 50	1 22	3 51	0 38	18 34	0 6	20 53	2 36	9 7	9 39	14 21	6 3	5 20
W25	6 9	28 15	4 44	11 39	1 49	4 55	1 22	7 16	0 57	17 26	0 37	21 50	1 22	3 52	0 38	18 35	0 6	20 53	2 36	9 7	9 38	14 24	6 2	5 20
T26	5 46	28 3	5 5	11 56	1 34	4 24	1 22	6 57	0 57	17 22	0 38	21 50	1 22	3 53	0 38	18 35	0 6	20 53	2 36	9 5	9 37	14 27	6 0	5 20
F27	5 22	26 18	5 11	12 10	1 20	3 54	1 21	6 39	0 56	17 19	0 38	21 50	1 23	3 55	0 38	18 35	0 6	20 53	2 36	9 4	9 36	14 30	5 59	5 20
S28	4 59	23 3	5 0	12 22	1 6	3 24	1 20	6 20	0 56	17 15	0 38	21 50	1 23	3 56	0 38	18 36	0 6	20 53	2 36	9 2	9 34	14 33	5 58	5 20
S29	4s36	18n25	4n32	12s32	0n52	2s53	1s19	6s 2	0s56	17s11	0s38	21s50	1n23	3n57	0s38	18n36	0n 6	20n53	2s36	9n 0	9n33	14n36	5s56	5n20

Julian Day Number = 2242665.5, Delta T = 07m07s

Ecliptic obliquity = $23^{\circ}30'57$, Nutation = $-0^{\circ}00'06$, out-of-bounds declination in red

Avanamsha: Fagan/Bradley = 16°45'42. Lahiri = 15°52'43 Julian Calendar 1 Feb. 1428 == Greg. Calendar 10 Feb. 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

MARCH 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	11 10 7	19°24'51	6°33	24°56	27°18	17°43	14°33	21°18	11°29	7°17	2°55	22°59	24°32	6°17	1°42	M 1
T 2	11 14 4	20°24'26	21° 7	25°17	28°17	18°30	14°46	21° 3	11°32	7°16	2°55	22°55	24°29	6°24	1°46	T 2
W 3	11 18 0	21°24'00	5°53	25°42	29°31	19°17	14°59	21° 5	11°35	7°15	2°55	22°52	24°25	6°31	1°50	W 3
T 4	11 21 57	22°23'32	20°44	26°12	0°46	20° 3	15°12	21° 6	11°38	7°14	2°55	22°51	24°22	6°37	1°54	T 4
F 5	11 25 53	23°23'02	5°31	26°47	2° 0	20°50	15°24	21° 8	11°42	7°13	2°54	22°52	24°19	6°44	1°57	F 5
S 6	11 29 50	24°22'30	20° 8	27°26	3°15	21°37	15°37	21°10	11°45	7°12	2°54	22°53	24°16	6°51	2° 1	S 6
S 7	11 33 47	25°21'56	4°32	28° 8	4°29	22°23	15°50	21°11	11°48	7°11	2°54	22°54	24°13	6°57	2° 5	S 7
M 8	11 37 43	26°21'21	18°39	28°55	5°44	23°10	16° 2	21°13	11°52	7°10	2°54	22°56	24°10	7° 4	2° 9	M 8
T 9	11 41 40	27°20'44	2°38	29°44	6°58	23°57	16°15	21°14	11°55	7° 9	2°54	22°56	24° 6	7°11	2°12	T 9
W10	11 45 36	28°20'05	16° 0	0°37	8°13	24°43	16°27	21°15	11°58	7° 8	2°54	22°55	24° 3	7°17	2°16	W10
T 11	11 49 33	29°19'24	29°15	1°33	9°27	25°30	16°40	21°16	12° 2	7° 7	2°55	22°52	24° 0	7°24	2°20	T 11
F 12	11 53 29	0°18'42	12°31	2°32	10°42	26°16	16°52	21°17	12° 5	7° 6	2°55	22°49	23°57	7°31	2°23	F 12
S 13	11 57 26	1°17'57	25° 0	3°33	11°56	27° 2	17° 4	21°18	12° 9	7° 5	2°55	22°46	23°54	7°37	2°27	S 13
S 14	12 1 22	2°17'11	7°32	4°37	13°10	27°49	17°16	21°19	12°12	7° 4	2°55	22°43	23°51	7°44	2°30	S 14
M15	12 5 19	3°16'22	19°52	5°44	14°25	28°35	17°28	21°20	12°15	7° 4	2°55	22°40	23°47	7°50	2°34	M15
T 16	12 9 15	4°15'32	2°19	6°53	15°39	29°22	17°40	21°21	12°19	7° 3	2°55	22°38	23°44	7°57	2°38	T 16
W17	12 13 12	5°14'39	14° 4	8° 4	16°53	0°18	17°52	21°21	12°22	7° 2	2°55	22°37	23°41	8° 4	2°41	W17
T 18	12 17 9	6°13'45	25°58	9°17	18° 7	0°54	18° 4	21°22	12°26	7° 1	2°56	22°36	23°38	8°10	2°44	T 18
F 19	12 21 5	7°12'48	7°47	10°33	19°22	1°40	18°16	21°22	12°29	7° 1	2°56	22°37	23°35	8°17	2°48	F 19
S 20	12 25 2	8°11'49	19°34	11°50	20°36	2°26	18°27	21°22	12°32	7° 0	2°56	22°38	23°31	8°24	2°51	S 20
S 21	12 28 58	9°10'48	1°22	13°10	21°50	3°13	18°39	21°22	12°36	7° 0	2°56	22°39	23°28	8°30	2°55	S 21
M22	12 32 55	10° 9'45	13°16	14°31	23° 4	3°59	18°50	21°22	12°39	6°59	2°57	22°41	23°25	8°37	2°58	M22
T 23	12 36 51	11° 8'39	25°19	15°54	24°18	4°45	19° 2	21°22	12°43	6°58	2°57	22°41	23°22	8°44	3° 1	T 23
W24	12 40 48	12° 7'32	7°35	17°19	25°32	5°31	19°13	21°22	12°46	6°58	2°57	22°42	23°19	8°50	3° 5	W24
T 25	12 44 44	13° 6'22	20°10	18°45	26°46	6°17	19°24	21°22	12°50	6°57	2°58	22°42	23°16	8°57	3° 8	T 25
F 26	12 48 41	14° 5'09	3°16	20°14	28° 0	7° 2	19°35	21°21	12°53	6°57	2°58	22°41	23°12	9° 4	3°11	F 26
S 27	12 52 38	15° 3'54	16°29	21°44	29°14	7°48	19°46	21°21	12°57	6°56	2°59	22°41	23° 9	9°10	3°14	S 27
S 28	12 56 34	16° 2'37	0°18	23°15	0°28	8°34	19°57	21°21	13° 0	6°56	2°59	22°40	23° 6	9°17	3°17	S 28
M29	13 0 31	17° 1'18	14°34	24°49	1°42	9°20	20° 8	21°20	13° 3	6°56	3° 0	22°39	23° 3	9°24	3°21	M29
T 30	13 4 27	17°59'56	29°13	26°24	2°56	10° 6	20°19	21°19	13° 7	6°55	3° 0	22°39	23° 0	9°30	3°24	T 30
W31	13 8 24	18°58'33	14°10	28°18	4°10	10°51	20°29	21°18	13°10	6°55	3° 1	22°38	22°56	9°37	3°27	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	4s12	12n38	3n46	12s39	0n38	2s22	1s18	5s43	0s55	17s 8	0s38	21s50	1n23	3n59	0s38	18n36
T 2	3 49	6 3	2 45	12 45	0 25	1 52	1 17	5 24	0 55	17 4	0 38	21 50	1 23	4 0	0 38	18 37
W 3	3 25	0s57	1 32	12 49	0 12	1 21	1 16	5 6	0 55	17 0	0 38	21 50	1 23	4 1	0 38	18 37
T 4	3 2	7 56	0 12	12 50	0s 1	0 50	1 15	4 47	0 54	16 57	0 39	21 50	1 23	4 2	0 38	18 37
F 5	2 38	14 29	1s 9	12 50	0 13	0 19	1 13	4 28	0 54	16 53	0 39	21 50	1 23	4 4	0 38	18 37
S 6	2 14	20 9	2 24	12 48	0 25	0n12	1 12	4 9	0 53	16 49	0 39	21 50	1 23	4 5	0 38	18 38
S 7	1 51	24 32	3 29	12 43	0 36	0 42	1 11	3 50	0 53	16 46	0 39	21 50	1 23	4 6	0 38	18 38
M 8	1 27	27 21	4 20	12 37	0 47	1 13	1 9	3 32	0 53	16 42	0 39	21 50	1 23	4 8	0 38	18 38
T 9	1 4	28 24	4 55	12 29	0 57	1 44	1 8	3 13	0 52	16 39	0 39	21 50	1 23	4 9	0 38	18 39
W10	0 40	27 43	5 12	12 19	1 6	2 15	1 7	2 54	0 52	16 35	0 40	21 50	1 23	4 10	0 38	18 39
T 11	0 16	25 28	5 13	12 8	1 6	2 46	1 5	2 35	0 51	16 31	0 40	21 50	1 23	4 12	0 38	18 39
F 12	0n 7	21 55	4 57	11 55	1 24	3 16	1 3	2 16	0 51	16 28	0 40	21 50	1 24	4 13	0 38	18 39
S 13	0 31	17 24	4 26	11 40	1 32	3 47	1 2	1 57	0 51	16 24	0 40	21 50	1 24	4 14	0 38	18 39
S 14	0 55	12 14	3 44	11 24	1 40	4 18	1 0	1 38	0 50	16 21	0 40	21 50	1 24	4 16	0 38	18 40
M15	1 18	6 39	2 51	11 6	1 47	4 48	0 58	1 19	0 50	16 17	0 40	21 50	1 24	4 17	0 38	18 40
T 16	1 42	0 53	1 51	10 46	1 54	5 19	0 56	1 1	0 49	16 14	0 41	21 50	1 24	4 18	0 37	18 40
W17	2 5	4n50	0 47	10 25	2 0	5 49	0 55	0 42	0 49	16 10	0 41	21 50	1 24	4 20	0 37	18 40
T 18	2 29	10 21	0n19	10 3	2 5	6 19	0 53	0 23	0 48	16 7	0 41	21 50	1 24	4 21	0 37	18 40
F 19	2 52	15 27	1 23	9 39	2 10	6 49	0 51	0 4	0 48	16 3	0 41	21 50	1 24	4 22	0 37	18 41
S 20	3 16	19 59	2 24	9 13	2 15	7 19	0 49	0n15	0 47	16 0	0 41	21 50	1 24	4 24	0 37	18 41
S 21	3 39	23 45	3 19	8 46	2 19	7 49	0 47	0 34	0 47	15 56	0 41	21 50	1 24	4 25	0 37	18 41
M22	4 2	26 31	4 5	8 18	2 22	8 18	0 45	0 52	0 47	15 53	0 42	21 50	1 24	4 26	0 37	18 41
T 23	4 25	28 8	4 42	7 48	2 25	8 48	0 43	1 11	0 46	15 50	0 42	21 50	1 24	4 28	0 37	18 41
W24	4 48	28 24	5 6	7 17	2 28	9 17	0 41	1 30	0 46	15 46	0 42	21 50	1 24	4 29	0 37	18 41
T 25	5 11	27 13	5 17	6 45	2 29	9 46	0 38	1 49	0 45	15 43	0 42	21 50	1 24	4 30	0 37	18 42
F 26	5 34	24 35	5 12	6 12	2 31	10 14	0 36	2 7	0 45	15 40	0 42	21 50	1 25	4 32	0 37	18 42
S 27	5 57	20 34	4 51	5 37	2 32	10 43	0 34	2 26	0 44	15 36	0 42	21 50	1 25	4 33	0 37	18 42
S 28	6 20	15 19	4 12	5 1	2 32	11 11	0 32	2 44	0 44	15 33	0 43	21 49	1 25	4 35	0 37	18 42
M29	6 42	9 7	3 16	4 24	2 32	11 39	0 29	3 3	0 43	15 30	0 43	21 49	1 25	4 36	0 37	18 42
T 30	7 5	2 15	2 7	3 45	2 31	12 6	0 27	3 21	0 43	15 27	0 43	21 49	1 25	4 37	0 37	18 42
W31	7n27	4s53	0n47	3s 5	2s30	12n34	0s25	3n40	0s42	15s23	0s43	21s49	1n25	4n39	0s37	18n42

Julian Day Number = 2242694.5, Delta T = 07m07s

Ecliptic obliquity = 23°30'58", Nutation = - 0°00'06", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°45'46", Lahiri = 15°52'47" Julian Calendar 1 March 1428 == Greg. Calendar 10 March 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

APRIL 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 12 20	19°57'07	29°17	29°39	5°24	11°37	20°40	21°17	13°14	6°55	3°1	22°D38	22°53	9°44	3°30	T 1
F 2	13 16 17	20°55'40	14°24	1°19	6°38	12°22	20°50	21°16	13°17	6°55	3°2	22°Y39	22°50	9°50	3°33	F 2
S 3	13 20 13	21°54'10	29°24	3°1	7°52	13°8	21°0	21°15	13°20	6°54	3°2	22°39	22°47	9°57	3°36	S 3
S 4	13 24 10	22°52'40	14°8	4°44	9°5	13°53	21°11	21°14	13°24	6°54	3°3	22°R39	22°44	10°3	3°38	S 4
M 5	13 28 7	23°51'07	28°30	6°29	10°19	14°39	21°21	21°13	13°27	6°54	3°4	22°39	22°41	10°10	3°41	M 5
T 6	13 32 3	24°49'33	12°29	8°16	11°33	15°24	21°31	21°11	13°31	6°54	3°4	22°38	22°37	10°17	3°44	T 6
W 7	13 36 0	25°47'57	26°3	10°4	12°47	16°10	21°41	21°10	13°34	6°54	3°5	22°D38	22°34	10°23	3°47	W 7
T 8	13 39 56	26°46'20	9°41	11°54	14°0	16°55	21°50	21°8	13°37	6°54	3°6	22°39	22°31	10°30	3°50	T 8
F 9	13 43 53	27°44'41	22°5	13°46	15°14	17°40	22°0	21°7	13°41	6°54	3°6	22°39	22°28	10°37	3°52	F 9
S 10	13 47 49	28°43'00	4°37	15°39	16°28	18°25	22°9	21°5	13°44	6°54	3°7	22°39	22°25	10°43	3°55	S 10
S 11	13 51 46	29°41'18	16°55	17°34	17°41	19°11	22°19	21°3	13°48	6°54	3°8	22°40	22°22	10°50	3°58	S 11
M12	13 55 42	0°39'34	29°2	19°31	18°55	19°56	22°28	21°1	13°51	6°54	3°9	22°41	22°18	10°57	4°0	M12
T 13	13 59 39	1°37'49	11°0	21°29	20°8	20°41	22°37	20°59	13°54	6°54	3°9	22°41	22°15	11°3	4°3	T 13
W14	14 3 36	2°36'02	22°52	23°29	21°22	21°26	22°46	20°57	13°57	6°54	3°10	22°R42	22°12	11°10	4°5	W14
T 15	14 7 32	3°34'13	4°41	25°31	22°35	22°11	22°55	20°55	14°1	6°55	3°11	22°41	22°9	11°17	4°8	T 15
F 16	14 11 29	4°32'22	16°29	27°34	23°49	22°56	23°4	20°52	14°4	6°55	3°12	22°40	22°6	11°23	4°10	F 16
S 17	14 15 25	5°30'30	28°17	29°39	25°2	23°41	23°12	20°50	14°7	6°55	3°13	22°39	22°2	11°30	4°12	S 17
S 18	14 19 22	6°28'36	10°9	1°45	26°16	24°25	23°21	20°48	14°11	6°55	3°14	22°37	21°59	11°37	4°15	S 18
M19	14 23 18	7°26'40	22°7	3°52	27°29	25°10	23°29	20°45	14°14	6°56	3°15	22°35	21°56	11°43	4°17	M19
T 20	14 27 15	8°24'42	4°13	6°0	28°42	25°55	23°38	20°42	14°17	6°56	3°16	22°33	21°53	11°50	4°19	T 20
W21	14 31 11	9°22'42	16°31	8°10	29°56	26°40	23°46	20°40	14°20	6°56	3°17	22°31	21°50	11°57	4°21	W21
T 22	14 35 8	10°20'41	29°5	10°20	1°9	27°24	23°54	20°37	14°23	6°57	3°18	22°30	21°47	12°3	4°23	T 22
F 23	14 39 5	11°18'38	11°58	12°30	2°22	28°9	24°1	20°34	14°27	6°57	3°19	22°D29	21°43	12°10	4°25	F 23
S 24	14 43 1	12°16'32	25°13	14°41	3°35	28°53	24°9	20°31	14°30	6°58	3°20	22°30	21°40	12°17	4°27	S 24
S 25	14 46 58	13°14'25	8°53	16°51	4°48	29°38	24°17	20°28	14°33	6°58	3°21	22°31	21°37	12°23	4°29	S 25
M26	14 50 54	14°12'16	22°59	19°2	6°2	0°22	24°24	20°25	14°36	6°59	3°22	22°32	21°34	12°30	4°31	M26
T 27	14 54 51	15°10'05	7°30	21°11	7°15	1°6	24°31	20°22	14°39	6°59	3°23	22°33	21°31	12°36	4°33	T 27
W28	14 58 47	16°7'53	22°22	23°20	8°28	1°51	24°38	20°19	14°42	7°0	3°24	22°R34	21°28	12°43	4°35	W28
T 29	15 2 44	17°5'39	7°29	25°28	9°41	2°35	24°45	20°16	14°45	7°1	3°25	22°33	21°24	12°50	4°37	T 29
F 30	15 6 40	18°3'23	22°43	27°34	10°54	3°19	24°52	20°12	14°48	7°1	3°26	22°Y32	21°21	12°56	4°38	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	7n50	11s50	0s37	2s25	2s29	13n1	0s22	3n58	0s42	15s20	0s43	21s49	1n25	4n40	0s37	T 1
F 2	8 12 18	5 1 58	1 43	2 26	13 28	0 20	4 17	0 41	15 17	0 44	21 49	1 25	4 41	0 37	18 42	F 2
S 3	8 34 23	11 3 10	1 0	2 24	13 54	0 17	4 35	0 41	15 14	0 44	21 49	1 25	4 43	0 37	18 42	S 3
S 4	8 55 26	41 4 9	0 16	2 20	14 20	0 15	4 53	0 40	15 11	0 44	21 49	1 25	4 44	0 37	18 42	S 4
M 5	9 17 28	21 4 50	0n29	2 17	14 46	0 12	5 11	0 39	15 8	0 44	21 48	1 25	4 45	0 37	18 42	M 5
T 6	9 39 28	7 5 13	1 16	2 12	15 11	0 10	5 29	0 39	15 5	0 44	21 48	1 25	4 46	0 37	18 43	T 6
W 7	10 0 26	12 5 17	2 3	2 7	15 36	0 7	5 47	0 38	15 2	0 45	21 48	1 25	4 48	0 37	18 43	W 7
T 8	10 21 22	53 5 5	2 51	2 2	16 1	0 5	6 5	0 38	14 59	0 45	21 48	1 25	4 49	0 37	18 43	T 8
F 9	10 42 18	33 4 37	3 40	1 56	16 25	0 2	6 23	0 37	14 56	0 45	21 48	1 25	4 50	0 37	18 43	F 9
S 10	11 3 13	31 3 57	4 29	1 50	16 49	0n0	6 41	0 37	14 53	0 45	21 48	1 25	4 52	0 37	18 43	S 10
S 11	11 24 8	2 3 6	5 20	1 43	17 12	0 3	6 58	0 36	14 50	0 45	21 47	1 25	4 53	0 37	18 43	S 11
M12	11 44 2	20 2 8	6 11	1 36	17 35	0 5	7 16	0 36	14 47	0 46	21 47	1 26	4 54	0 37	18 43	M12
T 13	12 5 3n23	1 4 7	3 1	1 28	17 58	0 8	7 33	0 35	14 45	0 46	21 47	1 26	4 56	0 37	18 43	T 13
W14	12 25 8	56 0n1	7 55	1 20	18 20	0 11	7 51	0 35	14 42	0 46	21 47	1 26	4 57	0 37	18 42	W14
T 15	12 45 14	10 1 6	8 47	1 11	18 41	0 13	8 8	0 34	14 39	0 46	21 47	1 26	4 58	0 37	18 42	T 15
F 16	13 5 18	52 2 8	9 40	1 2	19 2	0 16	8 26	0 33	14 36	0 47	21 47	1 26	4 59	0 37	18 42	F 16
S 17	13 24 22	50 3 5	10 33	0 53	19 23	0 18	8 43	0 33	14 34	0 47	21 46	1 26	5 1	0 37	18 42	S 17
S 18	13 43 25	54 3 54	11 27	0 43	19 43	0 21	9 0	0 32	14 31	0 47	21 46	1 26	5 2	0 37	18 42	S 18
M19	14 2 27	49 4 33	12 19	0 33	20 3	0 24	9 17	0 32	14 29	0 47	21 46	1 26	5 3	0 37	18 42	M19
T 20	14 21 28	27 5 0	13 12	0 23	20 22	0 26	9 34	0 31	14 26	0 47	21 46	1 26	5 4	0 37	18 42	T 20
W21	14 40 27	41 5 14	14 4	0 13	20 40	0 29	9 50	0 31	14 24	0 48	21 46	1 26	5 6	0 37	18 42	W21
T 22	14 58 25	31 5 14	14 56	0 2	20 58	0 31	10 7	0 30	14 21	0 48	21 45	1 26	5 7	0 37	18 42	T 22
F 23	15 16 22	1 4 58	15 46	0n8	21 15	0 34	10 23	0 29	14 19	0 48	21 45	1 26	5 8	0 37	18 42	F 23
S 24	15 34 17	19 4 26	16 36	0 19	21 32	0 36	10 40	0 29	14 16	0 48	21 45	1 26	5 9	0 38	18 42	S 24
S 25	15 52 11	38 3 38	17 24	0 29	21 48	0 39	10 56	0 28	14 14	0 49	21 45	1 26	5 11	0 38	18 42	S 25
M26	16 9 5	11 2 36	18 10	0 40	22 4	0 41	11 12	0 28	14 12	0 49	21 44	1 26	5 12	0 38	18 41	M26
T 27	16 26 1s44	1 22 18	55 0	50	22 19	0 44	11 28	0 27	14 10	0 49	21 44	1 26	5 13	0 38	18 41	T 27
W28	16 43 8	43 0 1	19 38	1 0	22 33	0 46	11 44	0 26	14 8	0 49	21 44	1 26	5 14	0 38	18 41	W28
T 29	17 0 15	20 1s21	20 18	1 9	22 47	0 49	12 0	0 26	14 5	0 50	21 44	1 26	5 15	0 38	18 41	T 29
F 30	17n16	21s4	2s38	20n57	1n18	23n0	0n51	12n16	0s25	14s3	0s50	21s43	1n26	5n16	0s38	F 30

Julian Day Number = 2242725.5, Delta T = 07m07s

Ecliptic obliquity = 23°30'58, Nutation = - 0°00'07, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°45'51, Lahiri = 15°52'51 Julian Calendar 1 Apr. 1428 == Greg. Calendar 10 Apr. 1428

ASTRODIENST EPHEMERIS for the year 1428
geocentric

MAY 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 10 37	19♌ 1'07	7♌54	29♌39	12♌ 7	4♌ 3	24♌59	20°R 9	14♌51	7♌ 2	3♌27	22°R29	21♌18	13♌ 3	4♌40	S 1
S 2	15 14 34	19°58'49	22°51	1♌42	13°20	4°47	25° 5	20♌ 5	14°54	7° 3	3°28	22♌25	21°15	13°10	4°42	S 2
M 3	15 18 30	20°56'29	7♌28	3°43	14°33	5°31	25°12	20° 2	14°57	7° 4	3°29	22°21	21°12	13°16	4°43	M 3
T 4	15 22 27	21°54'09	21°39	5°41	15°45	6°15	25°18	19°58	15° 0	7° 5	3°31	22°18	21° 8	13°23	4°45	T 4
W 5	15 26 23	22°51'48	5♌21	7°37	16°58	6°59	25°24	19°55	15° 3	7° 5	3°32	22°15	21° 5	13°30	4°46	W 5
T 6	15 30 20	23°49'25	18°36	9°31	18°11	7°43	25°30	19°51	15° 6	7° 6	3°33	22°D14	21° 2	13°36	4°47	T 6
F 7	15 34 16	24°47'02	1♌25	11°21	19°24	8°27	25°35	19°47	15° 9	7° 7	3°34	22°14	20°59	13°43	4°49	F 7
S 8	15 38 13	25°44'38	13°54	13°10	20°37	9°10	25°41	19°44	15°11	7° 8	3°35	22°15	20°56	13°50	4°50	S 8
S 9	15 42 9	26°42'12	26° 6	14°55	21°49	9°54	25°46	19°40	15°14	7° 9	3°37	22°17	20°53	13°56	4°51	S 9
M10	15 46 6	27°39'46	8♌5	16°37	23° 2	10°38	25°51	19°36	15°17	7°10	3°38	22°18	20°49	14° 3	4°52	M10
T 11	15 50 3	28°37'18	19°57	18°17	24°15	11°21	25°57	19°32	15°20	7°11	3°39	22°R19	20°46	14°10	4°54	T 11
W12	15 53 59	29°34'50	1♌44	19°53	25°27	12° 5	26° 1	19°28	15°22	7°12	3°41	22°19	20°43	14°16	4°55	W12
T 13	15 57 56	0♌32'21	13°31	21°27	26°40	12°48	26° 6	19°24	15°25	7°13	3°42	22°17	20°40	14°23	4°56	T 13
F 14	16 1 52	1°29'51	25°20	22°57	27°53	13°32	26°11	19°20	15°28	7°14	3°43	22°13	20°37	14°30	4°57	F 14
S 15	16 5 49	2°27'20	7♌13	24°24	29° 5	14°15	26°15	19°16	15°30	7°15	3°44	22° 7	20°34	14°36	4°57	S 15
S 16	16 9 45	3°24'48	19°12	25°49	0♌18	14°59	26°19	19°12	15°33	7°17	3°46	22° 0	20°30	14°43	4°58	S 16
M17	16 13 42	4°22'15	1♌18	27°10	1°30	15°42	26°23	19° 7	15°35	7°18	3°47	21°52	20°27	14°50	4°59	M17
T 18	16 17 38	5°19'40	13°34	28°28	2°42	16°25	26°27	19° 3	15°38	7°19	3°48	21°45	20°24	14°56	5° 0	T 18
W19	16 21 35	6°17'05	26° 1	29°43	3°55	17° 8	26°31	18°59	15°40	7°20	3°50	21°38	20°21	15° 3	5° 0	W19
T 20	16 25 32	7°14'29	8♌41	0♌54	5° 7	17°51	26°34	18°55	15°43	7°21	3°51	21°33	20°18	15°10	5° 1	T 20
F 21	16 29 28	8°11'51	21°35	2° 2	6°19	18°34	26°37	18°51	15°45	7°23	3°53	21°29	20°14	15°16	5° 2	F 21
S 22	16 33 25	9° 9'12	4♌48	3° 7	7°32	19°17	26°41	18°46	15°47	7°24	3°54	21°D28	20°11	15°23	5° 2	S 22
S 23	16 37 21	10° 6'33	18°21	4° 8	8°44	20° 0	26°43	18°42	15°50	7°25	3°55	21°28	20° 8	15°30	5° 3	S 23
M24	16 41 18	11° 3'52	2♌15	5° 6	9°56	20°43	26°46	18°38	15°52	7°27	3°57	21°29	20° 5	15°36	5° 3	M24
T 25	16 45 14	12° 1'10	16°31	6° 0	11° 8	21°26	26°49	18°33	15°54	7°28	3°58	21°R30	20° 2	15°43	5° 3	T 25
W26	16 49 11	13°58'27	1♌ 9	6°51	12°20	22° 9	26°51	18°29	15°57	7°30	4° 0	21°30	19°59	15°50	5° 4	W26
T 27	16 53 7	13°55'43	16° 3	7°37	13°32	22°51	26°53	18°24	15°59	7°31	4° 1	21°28	19°55	15°56	5° 4	T 27
F 28	16 57 4	14°52'59	1♌ 7	8°20	14°44	23°34	26°55	18°20	16° 1	7°33	4° 2	21°23	19°52	16° 3	5° 4	F 28
S 29	17 1 1	15°50'13	16°13	8°59	15°56	24°16	26°57	18°16	16° 3	7°34	4° 4	21°17	19°49	16°10	5° 4	S 29
S 30	17 4 57	16°47'28	1♌10	9°33	17° 8	24°59	26°59	18°11	16° 5	7°36	4° 5	21° 9	19°46	16°16	5°R 4	S 30
M31	17 8 54	17°44'42	15♌51	10♌ 4	18♌20	25♌41	27° 0	18♌ 7	16° 7	7♌37	4° 7	21° 0	19°43	16°23	5°H 4	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	17n32	25s23	3s44	21n33	1n26	23n12	0n54	12n31	0s25	14s 1	0s50	21s43	1n26	5n18	0s38	18n41
S 2	17 48	27 52	4 33	22 6	1 34	23 24	0 56	12 47	0 24	13 59	0 50	21 43	1 26	5 19	0 38	18 40
M 3	18 3	28 21	5 3	22 37	1 42	23 35	0 58	13 2	0 23	13 58	0 51	21 43	1 26	5 20	0 38	18 40
T 4	18 18	26 55	5 13	23 6	1 48	23 45	1 1	13 17	0 23	13 56	0 51	21 42	1 26	5 21	0 38	18 40
W 5	18 33	23 55	5 5	23 32	1 54	23 55	1 3	13 32	0 22	13 54	0 51	21 42	1 26	5 22	0 38	18 40
T 6	18 47	19 45	4 41	23 55	1 59	24 4	1 5	13 47	0 21	13 52	0 51	21 42	1 26	5 23	0 38	18 40
F 7	19 1	14 47	4 3	24 16	2 4	24 13	1 7	14 2	0 21	13 50	0 52	21 42	1 26	5 24	0 38	18 39
S 8	19 15	9 21	3 15	24 34	2 8	24 20	1 10	14 17	0 20	13 49	0 52	21 41	1 26	5 25	0 38	18 39
S 9	19 29	3 40	2 19	24 49	2 11	24 27	1 12	14 31	0 20	13 47	0 52	21 41	1 26	5 26	0 38	18 39
M10	19 42	2n 2	1 17	25 3	2 13	24 34	1 14	14 46	0 19	13 46	0 52	21 41	1 26	5 27	0 38	18 39
T 11	19 55	7 37	0 13	25 13	2 14	24 39	1 16	15 0	0 18	13 44	0 53	21 40	1 26	5 28	0 38	18 38
W12	20 8	12 55	0n51	25 22	2 15	24 44	1 18	15 14	0 18	13 43	0 53	21 40	1 26	5 29	0 38	18 38
T 13	20 20	17 44	1 53	25 28	2 14	24 48	1 20	15 28	0 17	13 41	0 53	21 40	1 26	5 30	0 38	18 38
F 14	20 32	21 54	2 50	25 33	2 13	24 52	1 22	15 41	0 16	13 40	0 53	21 39	1 26	5 31	0 38	18 38
S 15	20 43	25 12	3 40	25 35	2 12	24 54	1 24	15 55	0 16	13 39	0 54	21 39	1 26	5 32	0 38	18 37
S 16	20 54	27 24	4 20	25 36	2 9	24 56	1 25	16 8	0 15	13 38	0 54	21 39	1 26	5 33	0 38	18 37
M17	21 5	28 20	4 49	25 35	2 5	24 58	1 27	16 22	0 15	13 37	0 54	21 39	1 26	5 34	0 38	18 37
T 18	21 16	27 53	5 5	25 32	2 1	24 58	1 29	16 35	0 14	13 36	0 55	21 38	1 26	5 35	0 38	18 36
W19	21 26	26 3	5 8	25 27	1 56	24 58	1 31	16 48	0 13	13 35	0 55	21 38	1 26	5 36	0 38	18 36
T 20	21 35	22 53	4 55	25 21	1 50	24 57	1 32	17 0	0 13	13 34	0 55	21 38	1 26	5 37	0 38	18 36
F 21	21 45	18 34	4 27	25 14	1 44	24 55	1 34	17 13	0 12	13 33	0 55	21 37	1 26	5 38	0 38	18 36
S 22	21 54	13 16	3 45	25 5	1 37	24 53	1 35	17 25	0 11	13 32	0 56	21 37	1 26	5 39	0 38	18 35
S 23	22 2	7 13	2 49	24 55	1 28	24 50	1 37	17 38	0 11	13 31	0 56	21 37	1 26	5 40	0 38	18 35
M24	22 10	0 40	1 42	24 45	1 20	24 46	1 38	17 50	0 10	13 31	0 56	21 36	1 26	5 41	0 38	18 35
T 25	22 18	6s 6	0 27	24 33	1 10	24 42	1 39	18 2	0 9	13 30	0 56	21 36	1 25	5 42	0 38	18 34
W26	22 26	12 43	0s52	24 20	1 0	24 37	1 41	18 13	0 9	13 29	0 57	21 36	1 25	5 42	0 38	18 34
T 27	22 33	18 44	2 8	24 6	0 49	24 31	1 42	18 25	0 8	13 29	0 57	21 35	1 25	5 43	0 38	18 33
F 28	22 39	23 39	3 16	23 52	0 37	24 24	1 43	18 36	0 7	13 29	0 57	21 35	1 25	5 44	0 38	18 33
S 29	22 46	26 57	4 11	23 37	0 25	24 17	1 44	18 48	0 7	13 28	0 58	21 35	1 25	5 45	0 38	18 33
S 30	22 51	28 18	4 47	23 22	0 12	24 9	1 45	18 59	0 6	13 28	0 58	21 34	1 25	5 46	0 38	18 32
M31	22n57	27s36	5s 4	23n 6	0s 2	24n 0	1n46	19n 9	0s 5	13s28	0s58	21s34	1n25	5n46	0s38	18n32

Julian Day Number = 2242755.5, Delta T = 07m07s

Ecliptic obliquity = 23°30'57, Nutation = - 0°00'07, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°45'55, Lahiri = 15°52'55 Julian Calendar 1 May 1428 == Greg. Calendar 10 May 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

JUNE 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	17 12 50	18°41'55	0°37' 7	10°30'30	19°32'32	26°8'24	27°31' 1	18°R 2	16°Y 9	7°L39	4°E 8	20°R52	19°Y40	16°B30	5°R 4	T 1
W 2	17 16 47	19°39'08	13°55' 10	10°51' 20	20°44' 27	27° 6' 27	27° 2' 17	17°58	16°11	7°40	4°10	20°Y46	19°36	16°36	5°H 4	W 2
T 3	17 20 43	20°36'21	27°15' 11	11° 9' 21	21°55' 27	27°48' 27	27° 3' 17	17°54	16°13	7°42	4°11	20°41	19°33	16°43	5° 4	T 3
F 4	17 24 40	21°33'34	10°38' 8	11°21' 23	23° 7' 28	28°31' 27	27° 4' 17	17°49	16°15	7°44	4°13	20°39	19°30	16°50	5° 3	F 4
S 5	17 28 37	22°30'46	22°37' 11	11°30' 24	24°19' 29	29°13' 27	27° 5' 17	17°45	16°17	7°45	4°14	20°D38	19°27	16°56	5° 3	S 5
S 6	17 32 33	23°27'59	4°Y48	11°R33	25°30' 29	29°55' 27	27° 5' 17	17°40	16°18	7°47	4°16	20°39	19°24	17° 3	5° 3	S 6
M 7	17 36 30	24°25'11	16°46' 11	11°32' 26	26°42' 0	37' 27	27°R 5	17°36	16°20	7°49	4°17	20°R39	19°20	17°10	5° 2	M 7
T 8	17 40 26	25°22'23	28°36' 11	11°27' 27	27°53' 1	19' 27	27° 5' 17	17°32	16°22	7°50	4°19	20°39	19°17	17°16	5° 2	T 8
W 9	17 44 23	26°19'36	10°B23	11°17' 29	29° 5' 2	1' 27	27° 4' 17	17°27	16°24	7°52	4°20	20°37	19°14	17°23	5° 1	W 9
T 10	17 48 19	27°16'48	22°11' 11	11° 3' 0	16' 24	27° 4' 17	27° 4' 17	17°23	16°25	7°54	4°22	20°33	19°11	17°30	5° 1	T 10
F 11	17 52 16	28°14'00	4°II 4	10°44' 1	27' 3	25' 27	27° 3' 17	17°19	16°27	7°56	4°23	20°26	19° 8	17°36	5° 0	F 11
S 12	17 56 12	29°11'12	16° 4	10°22' 2	39' 4	7' 27	27° 2' 17	17°14	16°28	7°58	4°25	20°16	19° 5	17°43	4°59	S 12
S 13	18 0 9	0°E 8'25	28°13' 9	5°57' 3	50' 4	48' 27	27° 1' 17	17°10	16°30	7°59	4°26	20° 5	19° 1	17°49	4°59	S 13
M14	18 4 6	1° 5'37	10°B33	9°28' 5	1' 5	30' 27	27° 0' 17	17° 6	16°31	8° 1	4°28	19°53	18°58	17°56	4°58	M14
T 15	18 8 2	2° 2'49	23° 3	8°56' 6	12' 6	12' 26	26°59' 17	2° 16	16°33	8° 3	4°29	19°41	18°55	18° 3	4°57	T 15
W16	18 11 59	3° 0'01	5°L45	8°22' 7	24' 6	53' 26	26°57' 16	16°58	16°34	8° 5	4°31	19°30	18°52	18° 9	4°56	W16
T 17	18 15 55	3°57'12	18°38' 7	7°47' 8	35' 7	35' 26	26°55' 16	16°54	16°35	8° 7	4°32	19°21	18°49	18°16	4°55	T 17
F 18	18 19 52	4°54'24	1°M44	7°10' 9	46' 8	16' 26	26°53' 16	16°49	16°37	8° 9	4°34	19°15	18°46	18°23	4°54	F 18
S 19	18 23 48	5°51'35	15° 3	6°32' 10	56' 8	58' 26	26°51' 16	16°45	16°38	8°11	4°35	19°11	18°42	18°29	4°53	S 19
S 20	18 27 45	6°48'46	28°36' 5	5°55' 12	7' 9	39' 26	26°48' 16	16°41	16°39	8°13	4°37	19° 9	18°39	18°36	4°52	S 20
M21	18 31 41	7°45'57	12°A25	5°19' 13	18' 10	20' 26	26°46' 16	16°37	16°40	8°15	4°38	19° 9	18°36	18°43	4°51	M21
T 22	18 35 38	8°43'08	26°30' 4	4°43' 14	29' 11	2' 26	26°43' 16	16°33	16°41	8°17	4°40	19° 9	18°33	18°49	4°49	T 22
W23	18 39 35	9°40'18	10°M45	4°10' 15	39' 11	43' 26	26°40' 16	16°30	16°42	8°19	4°42	19° 8	18°30	18°56	4°48	W23
T 24	18 43 31	10°37'29	25°25' 3	4°40' 16	50' 12	24' 26	26°37' 16	16°26	16°43	8°21	4°43	19° 5	18°26	19° 3	4°47	T 24
F 25	18 47 28	11°34'40	10°X 9	3°12' 18	1' 13	5' 26	26°34' 16	16°22	16°44	8°23	4°45	18°59	18°23	19° 9	4°45	F 25
S 26	18 51 24	12°31'51	24°56' 2	4°48' 19	11' 13	46' 26	26°30' 16	16°18	16°45	8°25	4°46	18°50	18°20	19°16	4°44	S 26
S 27	18 55 21	13°29'02	9°B39	2°29' 20	21' 14	27' 26	26°26' 16	16°15	16°46	8°27	4°48	18°40	18°17	19°23	4°42	S 27
M28	18 59 17	14°26'14	24° 8	2°14' 21	32' 15	8' 26	26°23' 16	16°11	16°47	8°29	4°49	18°28	18°14	19°29	4°41	M28
T 29	19 3 14	15°23'25	8°A19	2° 3	22' 42	15' 26	26°19' 16	16° 7	16°47	8°31	4°51	18°17	18°11	19°36	4°39	T 29
W30	19 7 11	16°20'38	22°A 4	1°D58	23°L52	26°II29	26°A14	16°X 4	16°Y48	8°L33	4°E52	18°Y 8	18°Y 7	19°B43	4°H38	W30

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23n 2	25s 6	5s 2	22n50	0s16	23n51	1n46	19n20	0s 5	13s27	0s58	21s34	1n25	5n47	0s38	18n32	0n 7	21n 1	2s26	8n10	7n43	19n 3	4s26	5n39	
W 2	23 7	21 11	4 41	22 34	0 30	23 41	1 47	19 30	0 4	13 27	0 59	21 34	1 25	5 48	0 38	18 31	0 7	21 1	2 26	8 8	7 42	19 6	4 26	5 39	
T 3	23 11	16 19	4 6	22 18	0 45	23 30	1 48	19 41	0 3	13 27	0 59	21 33	1 25	5 49	0 38	18 31	0 7	21 1	2 26	8 6	7 40	19 8	4 25	5 39	
F 4	23 15	10 52	3 19	22 1	1 1	23 18	1 48	19 51	0 3	13 27	0 59	21 33	1 25	5 49	0 38	18 30	0 7	21 1	2 26	8 5	7 39	19 11	4 25	5 39	
S 5	23 18	5 9	2 24	21 45	1 17	23 6	1 49	20 1	0 2	13 28	1 0	21 33	1 25	5 50	0 38	18 30	0 7	21 1	2 26	8 5	7 38	19 14	4 25	5 40	
S 6	23 21	0n38	1 24	21 28	1 33	22 54	1 49	20 11	0 1	13 28	1 0	21 32	1 25	5 51	0 38	18 29	0 7	21 1	2 26	8 5	7 37	19 16	4 25	5 40	
M 7	23 24	6 17	0 21	21 12	1 49	22 41	1 50	20 20	0 1	13 28	1 0	21 32	1 25	5 51	0 38	18 29	0 7	21 1	2 26	8 5	7 36	19 19	4 25	5 40	
T 8	23 26	11 40	0n42	20 57	2 5	22 27	1 50	20 29	0 0	13 28	1 0	21 32	1 24	5 52	0 38	18 29	0 7	21 1	2 26	8 5	7 34	19 22	4 25	5 40	
W 9	23 28	16 37	1 43	20 41	2 21	22 12	1 50	20 39	0n 1	13 29	1 1	21 31	1 24	5 53	0 38	18 28	0 7	21 1	2 25	8 5	7 33	19 24	4 25	5 41	
T 10	23 29	20 57	2 40	20 26	2 37	21 57	1 50	20 47	0 1	13 29	1 1	21 31	1 24	5 53	0 38	18 28	0 7	21 1	2 25	8 3	7 32	19 27	4 25	5 41	
F 11	23 30	24 27	3 29	20 12	2 53	21 41	1 50	20 56	0 2	13 30	1 1	21 31	1 24	5 54	0 38	18 27	0 7	21 1	2 25	8 0	7 31	19 30	4 25	5 41	
S 12	23 31	26 56	4 10	19 59	3 8	21 25	1 50	21 5	0 3	13 30	1 2	21 30	1 24	5 54	0 38	18 27	0 7	21 1	2 25	7 57	7 30	19 32	4 25	5 41	
S 13	23 31	28 10	4 40	19 46	3 23	21 8	1 50	21 13	0 3	13 31	1 2	21 30	1 24	5 55	0 38	18 26	0 7	21 1	2 25	7 53	7 28	19 35	4 25	5 42	
M14	23 31	28 2	4 58	19 34	3 37	20 51	1 50	21 21	0 4	13 31	1 2	21 30	1 24	5 55	0 38	18 26	0 7	21 1	2 25	7 48	7 27	19 38	4 25	5 42	
T 15	23 30	26 29	5 1	19 23	3 50	20 33	1 49	21 29	0 5	13 32	1 2	21 30	1 24	5 56	0 38	18 25	0 7	21 1	2 25	7 43	7 26	19 40	4 25	5 42	
W16	23 29	23 34	4 50	19 14	4 2	20 14	1 49	21 37	0 5	13 33	1 3	21 29	1 24	5 56	0 39	18 25	0 7	21 1	2 25	7 39	7 25	19 43	4 25	5 43	
T 17	23 27	19 27	4 23	19 5	4 13	19 55	1 48	21 45	0 6	13 34	1 3	21 29	1 23	5 57	0 39	18 24	0 7	21 1	2 25	7 36	7 24	19 45	4 25	5 43	
F 18	23 25	14 22	3 43	18 57	4 22	19 36	1 48	21 52	0 7	13 35	1 3	21 29	1 23	5 57	0 39	18 24	0 7	21 1	2 25	7 33	7 22	19 48	4 25	5 43	
S 19	23 23	8 31	2 50	18 51	4 30	19 15	1 47	21 59	0 7	13 36	1 4	21 28	1 23	5 58	0 39	18 23	0 7	21 1	2 25	7 32	7 21	19 51	4 25	5 43	
S 20	23 20	2 11	1 47	18 46	4 37	18 55	1 46	22 6	0 8	13 37	1 4	21 28	1 23	5 58	0 39	18 23	0 7	21 1	2 25	7 31	7 20	19 53	4 26	5 44	
M21	23 17	4s22	0 36	18 43	4 42	18 34	1 45	22 13	0 9	13 38	1 4	21 28	1 23	5 59	0 39	18 22	0 7	21 1	2 25	7 31	7 19	19 56	4 26	5 44	
T 22	23 14	10 51	0s39	18 40	4 46	18 12	1 45	22 19	0 9	13 39	1 4	21 28	1 23	5 59	0 39	18 22	0 7	21 1	2 25	7 31	7 17	19 58	4 26	5 44	
W23	23 10	16 54	1 52	18 40	4 48	17 50	1 43	22 26	0 10	13 41	1 5	21 27	1 23	5 59	0 39	18 21	0 7	21 1	2 25	7 31	7 16	20 1	4 26	5 44	
T 24	23 5	22 4	2 59	18 40	4 48	17 28	1 42	22 32	0 11	13 42	1 5	21 27	1 23	6 0	0 39	18 21	0 7	21 1	2 25	7 30	7 15	20 4	4 27	5 44	
F 25	23 1	25 55	3 55	18 42	4 47	17 5	1 41	22 38	0 12	13 43	1 5	21 27	1 22	6 0	0 39	18 20	0 7	21 1	2 25	7 27	7 14	20 6	4 27	5 45	
S 26	22 55	28 0	4 35	18 46	4 44	16 42	1 40	22 44	0 12	13 45	1 6	21 27	1 22	6 0	0 39	18 20	0 7	21 1	2 25	7 24	7 13	20 9	4 27	5 45	
S 27	22 50	28 6	4 57	18 50	4 39	16 18	1 38	22 49	0 13	13 46	1 6	21 26	1 22	6 1	0 39	18 19	0 7	21 1	2 24	7 20	7 11	20 11	4 27	5 45	
M28	22 44	26 15	4 59	18 56	4 34	15 54	1 37	22 54	0 14	13 48	1 6	21 26	1 22	6 1	0 39	18 19	0 7	21 1	2 24	7 16	7 10	20 14	4 28	5 45	
T 29	22 37	22 47	4 43	19 3	4 27	15 30	1 35	23 0	0 14	13 50	1 6	21 26	1 22	6 1	0 39	18 18	0 7	21 1	2 24	7 12	7 9	20 17	4 28	5 46	
W30	22n31	18s 8	4s10	19n12	4s18	15n 5	1n34	23n 5	0n15	13s51	1s 7	21s26	1n22	6n 1	0s39	18n18	0n 7	21n 1	2s24	7n 8	7n 8	20n19	4s29	5n46	

ASTRODIENST EPHEMERIS for the year 1428

geocentric

JULY 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 11 7	17°17'51	5°24	19°58	25°02	17°10	26°R10	16°R 0	16°Y49	8°L35	4°E54	18°R 1	18°Y 4	19°B49	4°R36	T 1
F 2	19 15 4	18°15'04	18°18	2° 4	26°12	17°51	26°A 5	15°A57	16°49	8°37	4°55	17°Y57	18° 1	19°56	4°K34	F 2
S 3	19 19 0	19°12'19	0°Y49	2°15	27°22	18°31	26° 1	15°54	16°50	8°39	4°57	17°54	17°58	20° 3	4°32	S 3
S 4	19 22 57	20° 9'34	13° 2	2°32	28°32	19°12	25°56	15°50	16°50	8°41	4°58	17°54	17°55	20° 9	4°31	S 4
M 5	19 26 53	21° 6'50	25° 1	2°54	29°42	19°52	25°51	15°47	16°51	8°43	4°59	17°54	17°52	20°16	4°29	M 5
T 6	19 30 50	22° 4'07	6°B52	3°23	0°M51	20°33	25°46	15°44	16°51	8°46	5° 1	17°53	17°48	20°23	4°27	T 6
W 7	19 34 46	23° 1'25	18°40	3°57	2° 1	21°13	25°40	15°41	16°52	8°48	5° 2	17°51	17°45	20°29	4°25	W 7
T 8	19 38 43	23°58'43	0°H31	4°37	3°11	21°53	25°35	15°38	16°52	8°50	5° 4	17°47	17°42	20°36	4°23	T 8
F 9	19 42 40	24°56'03	12°28	5°23	4°20	22°34	25°29	15°35	16°52	8°52	5° 5	17°40	17°39	20°43	4°21	F 9
S 10	19 46 36	25°53'24	24°36	6°14	5°29	23°14	25°23	15°32	16°52	8°54	5° 7	17°30	17°36	20°49	4°19	S 10
S 11	19 50 33	26°50'45	6°E56	7°11	6°39	23°54	25°17	15°30	16°53	8°56	5° 8	17°19	17°32	20°56	4°17	S 11
M12	19 54 29	27°48'08	19°30	8°14	7°48	24°34	25°11	15°27	16°53	8°59	5°10	17° 6	17°29	21° 3	4°15	M12
T 13	19 58 26	28°45'31	2°L18	9°22	8°57	25°14	25° 5	15°24	16°53	9° 1	5°11	16°53	17°26	21°10	4°12	T 13
W14	20 2 22	29°42'55	15°19	10°35	10° 6	25°54	24°59	15°22	16°R53	9° 3	5°12	16°42	17°23	21°16	4°10	W14
T 15	20 6 19	0°L40'20	28°33	11°53	11°15	26°34	24°52	15°19	16°53	9° 5	5°14	16°33	17°20	21°23	4° 8	T 15
F 16	20 10 15	1°37'46	11°M58	13°17	12°24	27°14	24°46	15°17	16°53	9° 7	5°15	16°26	17°17	21°30	4° 6	F 16
S 17	20 14 12	2°35'12	25°33	14°45	13°32	27°54	24°39	15°15	16°52	9°10	5°17	16°22	17°13	21°36	4° 3	S 17
S 18	20 18 9	3°32'39	9°A17	16°17	14°41	28°34	24°32	15°12	16°52	9°12	5°18	16°21	17°10	21°43	4° 1	S 18
M19	20 22 5	4°30'07	23°10	17°54	15°50	29°13	24°26	15°10	16°52	9°14	5°19	16°D21	17° 7	21°50	3°58	M19
T 20	20 26 2	5°27'36	7°M13	19°35	16°58	29°53	24°19	15° 8	16°52	9°16	5°21	16°R21	17° 4	21°56	3°56	T 20
W21	20 29 58	6°25'05	21°23	21°19	18° 6	0°E33	24°11	15° 6	16°51	9°19	5°22	16°20	17° 1	22° 3	3°54	W21
T 22	20 33 55	7°22'35	5°A41	23° 7	19°14	1°12	24° 4	15° 4	16°51	9°21	5°23	16°17	16°58	22°10	3°51	T 22
F 23	20 37 51	8°20'07	20° 3	24°58	20°22	1°52	23°57	15° 3	16°51	9°23	5°25	16°12	16°54	22°16	3°48	F 23
S 24	20 41 48	9°17'39	4°E25	26°52	21°30	2°31	23°50	15° 1	16°50	9°25	5°26	16° 4	16°51	22°23	3°46	S 24
S 25	20 45 44	10°15'12	18°43	28°48	22°38	3°10	23°42	14°59	16°50	9°27	5°27	15°55	16°48	22°30	3°43	S 25
M26	20 49 41	11°12'46	2°A50	0°L46	23°46	3°50	23°35	14°58	16°49	9°30	5°29	15°45	16°45	22°36	3°41	M26
T 27	20 53 38	12°10'21	16°42	2°45	24°53	4°29	23°27	14°56	16°48	9°32	5°30	15°35	16°42	22°43	3°38	T 27
W28	20 57 34	13° 7'57	0°H15	4°45	26° 1	5° 8	23°20	14°55	16°48	9°34	5°31	15°27	16°38	22°50	3°35	W28
T 29	21 1 31	14° 5'35	13°26	6°47	27° 8	5°47	23°12	14°54	16°47	9°36	5°32	15°20	16°35	22°56	3°33	T 29
F 30	21 5 27	15° 3'14	26°15	8°48	28°15	6°26	23° 4	14°53	16°46	9°39	5°34	15°16	16°32	23° 3	3°30	F 30
S 31	21 9 24	16°0'55	8°Y44	10°L50	29°M22	7°E 5	22°A57	14°A52	16°Y46	9°L41	5°E35	15°Y14	16°Y29	23°B10	3°A27	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22n24	12s44	3s25	19n21	4s 9	14n40	1n32	23n 9	0n16	13s53	1s 7	21s26	1n22	6n 2	0s39	18n17
F 2	22 16	6 56	2 30	19 31	3 59	14 14	1 30	23 14	0 16	13 55	1 7	21 25	1 21	6 2	0 39	18 17
S 3	22 8	1 2	1 29	19 43	3 47	13 48	1 28	23 18	0 17	13 57	1 7	21 25	1 21	6 2	0 39	18 16
S 4	22 0	4n46	0 26	19 54	3 35	13 22	1 26	23 22	0 18	13 59	1 8	21 25	1 21	6 2	0 39	18 16
M 5	21 51	10 18	0n38	20 7	3 22	12 55	1 24	23 26	0 18	14 1	1 8	21 25	1 21	6 2	0 39	18 15
T 6	21 42	15 24	1 39	20 19	3 9	12 28	1 22	23 30	0 19	14 2	1 8	21 25	1 21	6 3	0 39	18 14
W 7	21 33	19 55	2 35	20 32	2 55	12 1	1 19	23 33	0 20	14 5	1 8	21 24	1 21	6 3	0 39	18 14
T 8	21 23	23 40	3 25	20 45	2 41	11 34	1 17	23 36	0 20	14 7	1 9	21 24	1 20	6 3	0 39	18 13
F 9	21 13	26 26	4 6	20 58	2 26	11 6	1 14	23 40	0 21	14 9	1 9	21 24	1 20	6 3	0 39	18 13
S 10	21 2	28 1	4 37	21 11	2 12	10 38	1 12	23 42	0 22	14 11	1 9	21 24	1 20	6 3	0 39	18 12
S 11	20 51	28 15	4 56	21 23	1 57	10 10	1 9	23 45	0 23	14 13	1 9	21 24	1 20	6 3	0 39	18 12
M12	20 40	27 3	5 0	21 34	1 42	9 42	1 6	23 47	0 23	14 15	1 10	21 24	1 20	6 3	0 39	18 11
T 13	20 28	24 25	4 50	21 44	1 27	9 13	1 3	23 50	0 24	14 18	1 10	21 24	1 20	6 3	0 39	18 11
W14	20 17	20 30	4 24	21 54	1 12	8 44	1 0	23 52	0 25	14 20	1 10	21 24	1 19	6 3	0 39	18 10
T 15	20 4	15 31	3 44	22 2	0 57	8 15	0 57	23 54	0 25	14 22	1 10	21 23	1 19	6 3	0 39	18 9
F 16	19 52	9 44	2 51	22 8	0 43	7 46	0 54	23 55	0 26	14 25	1 10	21 23	1 19	6 3	0 39	18 9
S 17	19 39	3 26	1 48	22 13	0 29	7 17	0 51	23 57	0 27	14 27	1 11	21 23	1 19	6 3	0 39	18 8
S 18	19 25	3s 7	0 37	22 16	0 15	6 47	0 48	23 58	0 27	14 30	1 11	21 23	1 19	6 3	0 39	18 8
M19	19 12	9 36	0s36	22 17	0 2	6 17	0 44	23 59	0 28	14 32	1 11	21 23	1 19	6 3	0 39	18 7
T 20	18 58	15 40	1 48	22 15	0n10	5 47	0 41	24 0	0 29	14 35	1 11	21 23	1 18	6 2	0 39	18 6
W21	18 44	20 58	2 55	22 11	0 22	5 17	0 37	24 0	0 30	14 37	1 11	21 23	1 18	6 2	0 39	18 6
T 22	18 29	25 6	3 51	22 5	0 33	4 47	0 34	24 1	0 30	14 40	1 12	21 23	1 18	6 2	0 40	18 5
F 23	18 14	27 40	4 32	21 56	0 44	4 17	0 30	24 1	0 31	14 43	1 12	21 23	1 18	6 2	0 40	18 5
S 24	17 59	28 23	4 57	21 44	0 54	3 47	0 26	24 1	0 32	14 45	1 12	21 23	1 18	6 2	0 40	18 4
S 25	17 44	27 12	5 2	21 29	1 3	3 16	0 22	24 1	0 32	14 48	1 12	21 23	1 17	6 1	0 40	18 4
M26	17 28	24 17	4 50	21 12	1 11	2 46	0 18	24 1	0 33	14 50	1 12	21 23	1 17	6 1	0 40	18 3
T 27	17 12	20 0	4 20	20 52	1 18	2 15	0 14	24 0	0 34	14 53	1 12	21 23	1 17	6 1	0 40	18 2
W28	16 56	14 47	3 36	20 30	1 24	1 45	0 10	23 59	0 34	14 56	1 13	21 23	1 17	6 1	0 40	18 2
T 29	16 39	9 1	2 41	20 5	1 30	1 14	0 6	23 58	0 35	14 58	1 13	21 23	1 17	6 0	0 40	18 1
F 30	16 22	3 1	1 40	19 38	1 35	0 44	0 2	23 57	0 36	15 1	1 13	21 23	1 17	6 0	0 40	18 1
S 31	16n 5	2n57	0s35	19n 9	1n39	0n13	0s 2	23n56	0n37	15s 4	1s13	21s23	1n16	6n 0	0s40	18n 0

Julian Day Number = 2242816.5, Delta T = 07m07s

Ecliptic obliquity = 23°30'57", Nutation = - 0°00'04", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°46'03", Lahiri = 15°53'04" Julian Calendar 1 July 1428 == Greg. Calendar 10 July 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

AUGUST 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 13 20	16°58'37	20°57	12°52	0°29	7°44	22°R49	14°R51	16°R45	9°L43	5°36	15°D14	16°Y26	23°B16	3°R25	S 1
M 2	21 17 17	17°56'21	2°57	14°54	1°36	8°23	22°44	14°50	16°Y44	9°45	5°37	15°Y15	16°23	23°23	3°K22	M 2
T 3	21 21 13	18°54'07	14°49	16°55	2°42	9° 2	22°33	14°49	16°43	9°47	5°38	15°R16	16°19	23°30	3°19	T 3
W 4	21 25 10	19°51'54	26°39	18°55	3°49	9°41	22°25	14°48	16°42	9°50	5°39	15°16	16°16	23°36	3°16	W 4
T 5	21 29 7	20°49'43	8°32	20°55	4°55	10°19	22°17	14°48	16°41	9°52	5°41	15°14	16°13	23°43	3°13	T 5
F 6	21 33 3	21°47'34	20°32	22°53	6° 1	10°58	22° 9	14°47	16°40	9°54	5°42	15°10	16°10	23°50	3°11	F 6
S 7	21 37 0	22°45'27	2°44	24°51	7° 7	11°37	22° 2	14°47	16°39	9°56	5°43	15° 4	16° 7	23°56	3° 8	S 7
S 8	21 40 56	23°43'21	15°12	26°47	8°13	12°15	21°54	14°47	16°38	9°58	5°44	14°57	16° 4	24° 3	3° 5	S 8
M 9	21 44 53	24°41'17	27°57	28°42	9°18	12°54	21°46	14°46	16°36	10° 1	5°45	14°48	16° 0	24°10	3° 2	M 9
T 10	21 48 49	25°39'15	11°0	0°36	10°24	13°32	21°38	14°46	16°35	10° 3	5°46	14°39	15°57	24°16	2°59	T 10
W11	21 52 46	26°37'14	24°21	2°29	11°29	14°10	21°30	14°D46	16°34	10° 5	5°47	14°31	15°54	24°23	2°56	W11
T 12	21 56 42	27°35'15	7°38	4°21	12°34	14°49	21°22	14°46	16°32	10° 7	5°48	14°25	15°51	24°30	2°53	T 12
F 13	22 0 39	28°33'17	21°47	6°11	13°39	15°27	21°14	14°47	16°31	10° 9	5°49	14°21	15°48	24°36	2°51	F 13
S 14	22 4 36	29°31'21	5°46	8° 0	14°44	16° 5	21° 7	14°47	16°30	10°11	5°50	14°19	15°44	24°43	2°48	S 14
S 15	22 8 32	0°29'27	19°52	9°48	15°48	16°43	20°59	14°47	16°28	10°13	5°51	14°D19	15°41	24°50	2°45	S 15
M16	22 12 29	1°27'34	4°32	11°34	16°53	17°21	20°51	14°48	16°27	10°16	5°52	14°20	15°38	24°56	2°42	M16
T 17	22 16 25	2°25'42	18°13	13°20	17°57	17°59	20°44	14°48	16°25	10°18	5°53	14°21	15°35	25° 3	2°39	T 17
W18	22 20 22	3°23'52	2°24	15° 4	19° 1	18°37	20°36	14°49	16°24	10°20	5°54	14°R22	15°32	25°10	2°36	W18
T 19	22 24 18	4°22'03	16°33	16°47	20° 4	19°15	20°29	14°50	16°22	10°22	5°55	14°21	15°29	25°16	2°33	T 19
F 20	22 28 15	5°20'16	0°38	18°28	21° 8	19°53	20°21	14°51	16°20	10°24	5°56	14°19	15°25	25°23	2°30	F 20
S 21	22 32 11	6°18'31	14°37	20° 9	22°11	20°31	20°14	14°52	16°19	10°26	5°57	14°15	15°22	25°30	2°27	S 21
S 22	22 36 8	7°16'47	28°28	21°48	23°14	21° 8	20° 7	14°53	16°17	10°28	5°57	14° 9	15°19	25°36	2°24	S 22
M23	22 40 5	8°15'04	12°39	23°26	24°16	21°46	20° 0	14°54	16°15	10°30	5°58	14° 4	15°16	25°43	2°21	M23
T 24	22 44 1	9°13'23	25°36	25° 3	25°19	22°23	19°53	14°55	16°14	10°32	5°59	13°58	15°13	25°50	2°19	T 24
W25	22 47 58	10°11'44	8°47	26°39	26°21	23° 1	19°46	14°57	16°12	10°34	6° 0	13°53	15°10	25°56	2°16	W25
T 26	22 51 54	11°10'07	21°42	28°14	27°22	23°38	19°39	14°58	16°10	10°36	6° 1	13°50	15° 6	26° 3	2°13	T 26
F 27	22 55 51	12° 8'32	4°20	29°48	28°24	24°16	19°32	15° 0	16° 8	10°38	6° 1	13°48	15° 3	26°10	2°10	F 27
S 28	22 59 47	13° 6'58	16°43	1°20	29°25	24°53	19°26	15° 1	16° 6	10°40	6° 2	13°D48	15° 0	26°17	2° 7	S 28
S 29	23 3 44	14° 5'27	28°52	2°52	0°26	25°30	19°19	15° 3	16° 4	10°42	6° 3	13°48	14°57	26°23	2° 4	S 29
M30	23 7 40	15° 3'58	10°50	4°22	1°26	26° 7	19°13	15° 5	16° 2	10°44	6° 3	13°50	14°54	26°30	2° 2	M30
T 31	23 11 37	16° 2'31	22°42	5°51	2°27	26°44	19°36	15° 7	16°Y 0	10°L46	6° 4	13°Y52	14°Y50	26°B37	1°K59	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	15n48	8n40	0n31	18n38	1n42	0s18	0s 7	23n55	0n37	15s 6	1s13	21s23	1n16	5n59	0s40	S 1
M 2	15 30	14 0	1 34	18 4	1 44	0 48	0 11	23 53	0 38	15 9	1 13	21 23	1 16	5 59	0 40	M 2
T 3	15 12	18 45	2 32	17 29	1 45	1 19	0 16	23 51	0 39	15 12	1 13	21 24	1 16	5 59	0 40	T 3
W 4	14 54	22 46	3 23	16 53	1 46	1 50	0 20	23 49	0 39	15 15	1 14	21 24	1 16	5 58	0 40	W 4
T 5	14 36	25 51	4 6	16 15	1 46	2 20	0 25	23 47	0 40	15 17	1 14	21 24	1 15	5 58	0 40	T 5
F 6	14 17	27 49	4 39	15 36	1 46	2 51	0 30	23 44	0 41	15 20	1 14	21 24	1 15	5 57	0 40	F 6
S 7	13 58	28 29	5 0	14 55	1 44	3 22	0 34	23 42	0 41	15 23	1 14	21 24	1 15	5 57	0 40	S 7
S 8	13 39	27 43	5 7	14 14	1 43	3 52	0 39	23 39	0 42	15 25	1 14	21 24	1 15	5 56	0 40	S 8
M 9	13 20	25 31	4 59	13 32	1 40	4 22	0 44	23 36	0 43	15 28	1 14	21 24	1 15	5 56	0 40	M 9
T 10	13 1	21 56	4 35	12 49	1 37	4 53	0 49	23 33	0 44	15 31	1 14	21 25	1 14	5 55	0 40	T 10
W11	12 41	17 9	3 56	12 5	1 34	5 23	0 54	23 30	0 44	15 33	1 14	21 25	1 14	5 55	0 40	W11
T 12	12 21	11 27	3 3	11 21	1 30	5 53	0 59	23 26	0 45	15 36	1 14	21 25	1 14	5 54	0 40	T 12
F 13	12 1	5 5	1 59	10 36	1 26	6 23	1 4	23 23	0 46	15 38	1 14	21 25	1 14	5 54	0 40	F 13
S 14	11 41	1s36	0 46	9 51	1 22	6 53	1 9	23 19	0 46	15 41	1 14	21 25	1 14	5 53	0 40	S 14
S 15	11 20	8 15	0s30	9 6	1 17	7 23	1 14	23 15	0 47	15 43	1 14	21 26	1 14	5 53	0 40	S 15
M16	10 59	21 33	1 45	8 21	1 12	7 52	1 19	23 11	0 48	15 46	1 15	21 26	1 13	5 52	0 40	M16
T 17	10 39	20 5	2 53	7 35	1 6	8 22	1 25	23 6	0 49	15 48	1 15	21 26	1 13	5 52	0 40	T 17
W18	10 18	24 29	3 51	6 50	1 0	8 51	1 30	23 2	0 49	15 51	1 15	21 26	1 13	5 51	0 40	W18
T 19	9 56	27 23	4 35	6 4	0 54	9 20	1 35	22 57	0 50	15 53	1 15	21 27	1 13	5 50	0 40	T 19
F 20	9 35	28 33	5 2	5 19	0 48	9 49	1 40	22 53	0 51	15 56	1 15	21 27	1 13	5 50	0 40	F 20
S 21	9 14	27 51	5 10	4 33	0 41	10 18	1 46	22 48	0 51	15 58	1 15	21 27	1 12	5 49	0 40	S 21
S 22	8 52	25 26	5 1	3 48	0 35	10 46	1 51	22 43	0 52	16 0	1 15	21 28	1 12	5 48	0 40	S 22
M23	8 30	21 35	4 34	3 2	0 28	11 15	1 57	22 37	0 53	16 3	1 15	21 28	1 12	5 48	0 40	M23
T 24	8 8	16 41	3 53	2 17	0 21	11 43	2 2	22 32	0 54	16 5	1 15	21 28	1 12	5 47	0 40	T 24
W25	7 46	11 4	2 59	1 33	0 14	12 11	2 7	22 26	0 54	16 7	1 15	21 29	1 12	5 46	0 40	W25
T 26	7 24	5 6	1 58	0 48	0 6	12 38	2 13	22 21	0 55	16 9	1 15	21 29	1 11	5 46	0 40	T 26
F 27	7 2	0n56	0 52	0 4	0s 1	13 6	2 18	22 15	0 56	16 11	1 15	21 29	1 11	5 45	0 40	F 27
S 28	6 39	6 50	0n16	0s40	0 9	13 33	2 24	22 9	0 57	16 13	1 15	21 30	1 11	5 44	0 40	S 28
S 29	6 17	12 23	1 22	1 23	0 16	13 59	2 29	22 3	0 57	16 15	1 15	21 30	1 11	5 43	0 40	S 29
M30	5 54	17 23	2 23	2 6	0 24	14 26	2 35	21 57	0 58	16 17	1 15	21 30	1 11	5 42	0 40	M30
T 31	5n31	21n41	3n17	2s49	0s32	14s52	2s40	21n50	0n59	16s19	1s15	21s31	1n10	5n42	0s40	T 31

Julian Day Number = 2242847.5, Delta T = 07m07s

Ecliptic obliquity = 23°30'58", Nutation = - 0°00'04", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°46'07", Lahiri = 15°53'08" Julian Calendar 1 Aug. 1428 == Greg. Calendar 10 Aug. 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

SEPTEMBER 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	23 15 34	17 ^h 10'06"	4 ^h 32'	7 ^h 20'	3 ^h 27'	27 ^h 21'	19 ^h R 0	15 ^h 9'	15 ^h R58	10 ^h 48'	6 ^h 5'	13 ^h Y53	14 ^h Y47	26 ^h 843	1 ^h R56	W 1
T 2	23 19 30	17 ^h 59'43"	16 ^h 25'	8 ^h 47'	4 ^h 26'	27 ^h 58'	18 ^h 54'	15 ^h 11'	15 ^h Y56	10 ^h 49'	6 ^h 5'	13 ^h R54	14 ^h 44'	26 ^h 50'	1 ^h X53	T 2
F 3	23 23 27	18 ^h 58'23"	28 ^h 26'	10 ^h 13'	5 ^h 25'	28 ^h 35'	18 ^h 49'	15 ^h 13'	15 ^h 54'	10 ^h 51'	6 ^h 6'	13 ^h 53	14 ^h 41'	26 ^h 57'	1 ^h 50	F 3
S 4	23 27 23	19 ^h 57'05"	10 ^h 38'	11 ^h 37'	6 ^h 24'	29 ^h 12'	18 ^h 43'	15 ^h 15'	15 ^h 52'	10 ^h 53'	6 ^h 7'	13 ^h 52	14 ^h 38'	27 ^h 3	1 ^h 48	S 4
S 5	23 31 20	20 ^h 55'49"	23 ^h 8'	13 ^h 1'	7 ^h 22'	29 ^h 49'	18 ^h 37'	15 ^h 18'	15 ^h 50'	10 ^h 55'	6 ^h 7'	13 ^h 50	14 ^h 35'	27 ^h 10'	1 ^h 45	S 5
M 6	23 35 16	21 ^h 54'36"	5 ^h 57'	14 ^h 24'	8 ^h 20'	0 ^h 26'	18 ^h 32'	15 ^h 20'	15 ^h 48'	10 ^h 57'	6 ^h 8'	13 ^h 47	14 ^h 31'	27 ^h 17'	1 ^h 42	M 6
T 7	23 39 13	22 ^h 53'25"	19 ^h 8'	15 ^h 45'	9 ^h 18'	1 ^h 2'	18 ^h 27'	15 ^h 23'	15 ^h 45'	10 ^h 58'	6 ^h 8'	13 ^h 43	14 ^h 28'	27 ^h 23'	1 ^h 40	T 7
W 8	23 43 9	23 ^h 52'15"	2 ^h 47'	17 ^h 5'	10 ^h 15'	1 ^h 39'	18 ^h 22'	15 ^h 25'	15 ^h 43'	11 ^h 0'	6 ^h 9'	13 ^h 40	14 ^h 25'	27 ^h 30'	1 ^h 37	W 8
T 9	23 47 6	24 ^h 51'08"	16 ^h 37'	18 ^h 24'	11 ^h 12'	2 ^h 15'	18 ^h 17'	15 ^h 28'	15 ^h 41'	11 ^h 2'	6 ^h 9'	13 ^h 38	14 ^h 22'	27 ^h 37'	1 ^h 34	T 9
F 10	23 51 3	25 ^h 50'03"	0 ^h 49'	19 ^h 41'	12 ^h 8'	2 ^h 52'	18 ^h 12'	15 ^h 31'	15 ^h 39'	11 ^h 4'	6 ^h 9'	13 ^h 37	14 ^h 19'	27 ^h 43'	1 ^h 32	F 10
S 11	23 54 59	26 ^h 49'00"	15 ^h 15'	20 ^h 57'	13 ^h 4'	3 ^h 28'	18 ^h 7'	15 ^h 34'	15 ^h 36'	11 ^h 5'	6 ^h 10'	13 ^h D36	14 ^h 15'	27 ^h 50'	1 ^h 29	S 11
S 12	23 58 56	27 ^h 47'59"	29 ^h 47'	22 ^h 12'	13 ^h 59'	4 ^h 4'	18 ^h 3'	15 ^h 37'	15 ^h 34'	11 ^h 7'	6 ^h 10'	13 ^h 37	14 ^h 12'	27 ^h 57'	1 ^h 27	S 12
M13	0 2 52	28 ^h 47'00"	14 ^h 22'	23 ^h 25'	14 ^h 54'	4 ^h 40'	17 ^h 59'	15 ^h 40'	15 ^h 32'	11 ^h 9'	6 ^h 11'	13 ^h 38	14 ^h 9'	28 ^h 3'	1 ^h 24	M13
T 14	0 6 49	29 ^h 46'02"	28 ^h 53'	24 ^h 36'	15 ^h 48'	5 ^h 16'	17 ^h 55'	15 ^h 43'	15 ^h 30'	11 ^h 10'	6 ^h 11'	13 ^h 39	14 ^h 6'	28 ^h 10'	1 ^h 22	T 14
W15	0 10 45	0 ^h 45'07"	13 ^h 16'	25 ^h 45'	16 ^h 42'	5 ^h 52'	17 ^h 51'	15 ^h 46'	15 ^h 27'	11 ^h 12'	6 ^h 11'	13 ^h 40	14 ^h 3'	28 ^h 17'	1 ^h 19	W15
T 16	0 14 42	1 ^h 44'13"	27 ^h 28'	26 ^h 53'	17 ^h 35'	6 ^h 28'	17 ^h 47'	15 ^h 50'	15 ^h 25'	11 ^h 13'	6 ^h 12'	13 ^h R40	14 ^h 0'	28 ^h 23'	1 ^h 17	T 16
F 17	0 18 38	2 ^h 43'21"	11 ^h 37'	27 ^h 58'	18 ^h 28'	7 ^h 4'	17 ^h 43'	15 ^h 53'	15 ^h 23'	11 ^h 15'	6 ^h 12'	13 ^h 40	13 ^h 56'	28 ^h 30'	1 ^h 15	F 17
S 18	0 22 35	3 ^h 42'31"	25 ^h 12'	29 ^h 1'	19 ^h 20'	7 ^h 40'	17 ^h 40'	15 ^h 57'	15 ^h 20'	11 ^h 16'	6 ^h 12'	13 ^h 40	13 ^h 53'	28 ^h 37'	1 ^h 12	S 18
S 19	0 26 32	4 ^h 41'42"	8 ^h 43'	0 ^h 2	20 ^h 11'	8 ^h 16'	17 ^h 37'	16 ^h 0'	15 ^h 18'	11 ^h 18'	6 ^h 12'	13 ^h 39	13 ^h 50'	28 ^h 44'	1 ^h 10	S 19
M20	0 30 28	5 ^h 40'56"	21 ^h 59'	1 ^h 0'	21 ^h 1'	8 ^h 51'	17 ^h 34'	16 ^h 4'	15 ^h 15'	11 ^h 19'	6 ^h 13'	13 ^h 38	13 ^h 47'	28 ^h 50'	1 ^h 8	M20
T 21	0 34 25	6 ^h 40'11"	5 ^h 1	1 ^h 56'	21 ^h 51'	9 ^h 27'	17 ^h 31'	16 ^h 8'	15 ^h 13'	11 ^h 21'	6 ^h 13'	13 ^h 37	13 ^h 44'	28 ^h 57'	1 ^h 6	T 21
W22	0 38 21	7 ^h 39'28"	17 ^h 50'	2 ^h 48'	22 ^h 40'	10 ^h 2'	17 ^h 29'	16 ^h 12'	15 ^h 11'	11 ^h 22'	6 ^h 13'	13 ^h 36	13 ^h 41'	29 ^h 4'	1 ^h 3	W22
T 23	0 42 18	8 ^h 38'47"	0 ^h Y25	3 ^h 37'	23 ^h 29'	10 ^h 38'	17 ^h 26'	16 ^h 16'	15 ^h 8'	11 ^h 24'	6 ^h 13'	13 ^h 36	13 ^h 37'	29 ^h 10'	1 ^h 1	T 23
F 24	0 46 14	9 ^h 38'08"	12 ^h 48'	4 ^h 22'	24 ^h 16'	11 ^h 13'	17 ^h 24'	16 ^h 20'	15 ^h 6'	11 ^h 25'	6 ^h 13'	13 ^h D35	13 ^h 34'	29 ^h 17'	0 ^h 59	F 24
S 25	0 50 11	10 ^h 37'31"	25 ^h 0'	5 ^h 3'	25 ^h 3'	11 ^h 48'	17 ^h 22'	16 ^h 24'	15 ^h 3'	11 ^h 26'	6 ^h 13'	13 ^h 36	13 ^h 31'	29 ^h 24'	0 ^h 57	S 25
S 26	0 54 7	11 ^h 36'56"	7 ^h 3	5 ^h 40'	25 ^h 48'	12 ^h 23'	17 ^h 20'	16 ^h 28'	15 ^h 1'	11 ^h 28'	6 ^h 13'	13 ^h 36	13 ^h 28'	29 ^h 30'	0 ^h 55	S 26
M27	0 58 4	12 ^h 36'23"	18 ^h 58'	6 ^h 11'	26 ^h 33'	12 ^h 58'	17 ^h 19'	16 ^h 32'	14 ^h 58'	11 ^h 29'	6 ^h 13'	13 ^h 36	13 ^h 25'	29 ^h 37'	0 ^h 53	M27
T 28	1 2 0	13 ^h 35'53"	0 ^h II49	6 ^h 37'	27 ^h 17'	13 ^h 33'	17 ^h 17'	16 ^h 36'	14 ^h 56'	11 ^h 30'	6 ^h R13	13 ^h R36	13 ^h 21'	29 ^h 44'	0 ^h 51	T 28
W29	1 5 57	14 ^h 35'25"	12 ^h 39'	6 ^h 58'	28 ^h 0'	14 ^h 8'	17 ^h 16'	16 ^h 41'	14 ^h 54'	11 ^h 31'	6 ^h 13'	13 ^h 36	13 ^h 18'	29 ^h 50'	0 ^h 49	W29
T 30	1 9 54	15 ^h 34'59"	24 ^h II31	7 ^h 12'	28 ^h 42'	14 ^h 43'	17 ^h 15'	16 ^h 45'	14 ^h Y51	11 ^h 33'	6 ^h 13'	13 ^h Y36	13 ^h Y15	29 ^h 57'	0 ^h X48	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	
W 1	5n 9	25n 6	4n 3	3s31	0s39	15s18	2s46	21n44	1n 0	16s21	1s15	21s31	1n10	5n41	0s40	17n42	0n 8	21n 0	2s23	5n30	5n51	22n50	5s24	5n48
T 2	4 46	27 27	4 39	4 13	0 47	15 44	2 51	21 37	1 0	16 23	1 15	21 32	1 10	5 40	0 40	17 42	0 8	21 0	2 23	5 30	5 49	22 52	5 25	5 48
F 3	4 23	28 34	5 3	4 54	0 55	16 9	2 57	21 30	1 1	16 25	1 15	21 32	1 10	5 39	0 40	17 41	0 8	21 0	2 23	5 30	5 48	22 54	5 26	5 48
S 4	4 0	28 18	5 14	5 34	1 3	16 34	3 2	21 23	1 2	16 27	1 14	21 33	1 10	5 38	0 40	17 41	0 8	21 0	2 23	5 29	5 47	22 57	5 27	5 48
S 5	3 36	26 37	5 10	6 14	1 10	16 58	3 8	21 16	1 2	16 28	1 14	21 33	1 10	5 38	0 40	17 40	0 8	21 0	2 23	5 28	5 46	22 59	5 28	5 48
M 6	3 13	23 33	4 51	6 54	1 18	17 23	3 13	21 9	1 3	16 30	1 14	21 33	1 9	5 37	0 40	17 40	0 8	21 0	2 23	5 27	5 45	23 1	5 29	5 48
T 7	2 50	19 11	4 17	7 32	1 26	17 46	3 19	21 2	1 4	16 31	1 14	21 34	1 9	5 36	0 40	17 39	0 8	21 0	2 23	5 26	5 43	23 3	5 30	5 47
W 8	2 27	13 45	3 27	8 10	1 33	18 10	3 24	20 55	1 5	16 33	1 14	21 34	1 9	5 35	0 40	17 39	0 8	21 0	2 23	5 25	5 42	23 5	5 31	5 47
T 9	2 3	7 30	2 24	8 47	1 41	18 33	3 29	20 47	1 5	16 34	1 14	21 35	1 9	5 34	0 40	17 39	0 8	21 0	2 23	5 24	5 41	23 8	5 33	5 47
F 10	1 40	0 45	1 10	9 24	1 48	18 56	3 35	20 39	1 6	16 36	1 14	21 35	1 9	5 33	0 40	17 38	0 8	21 0	2 23	5 23	5 40	23 10	5 34	5 47
S 11	1 16	6s10	0s 9	9 59	1 56	19 18	3 40	20 32	1 7	16 37	1 14	21 36	1 8	5 32	0 40	17 38	0 8	21 0	2 23	5 23	5 38	23 12	5 35	5 47
S 12	0 53	12 49	1 28	10 34	2 3	19 40	3 45	20 24	1 8	16 39	1 14	21 36	1 8	5 32	0 40	17 37	0 8	21 0	2 23	5 23	5 37	23 14	5 36	5 46
M13	0 29	18 47	2 42	11 8	2 10	20 2	3 50	20 16	1 8	16 40	1 14	21 37	1 8	5 31	0 40	17 37	0 8	21 0	2 23	5 24	5 36	23 16	5 37	5 46
T 14	0 6	23 38	3 45	11 41	2 17	20 23	3 56	20 8	1 9	16 41	1 14	21 37	1 8	5 30	0 40	17 36	0 8	20 59	2 23	5 24	5 35	23 18	5 38	5 46
W15	0s18	26 59	4 33	12 13	2 24	20 43	4 1	20 0	1 10	16 42	1 14	21 38	1 8	5 29	0 40	17 36	0 8	20 59	2 23	5 25	5 33	23 21	5 39	5 46
T 16	0 42	28 34	5 4	12 44	2 30	21 4	4 6	19 51	1 11	16 43	1 14	21 38	1 8	5 28	0 40	17 36	0 8	20 59	2 23	5 25	5 32	23 23	5 40	5 45
F 17	1 5	28 16	5 16	13 13	2 36	21 23	4 11	19 43	1 12	16 44	1 13	21 39	1 7	5 27	0 40	17 35	0 8	20 59	2 23	5 25	5 31	23 25	5 41	5 45
S 18	1 29	26 15	5 10	13 41	2 42	21 43	4 16	19 35	1 12	16 45	1 13	21 39	1 7	5 26	0 40	17 35	0 8	20 59	2 23	5 24	5 30	23 27	5 42	5 45
S 19	1 52	22 45	4 47	14 9	2 48	22 1	4 20	19 26	1 13	16 46	1 13	21 40	1 7	5 25	0 40	17 34	0 8	20 59	2 23	5 24	5 28	23 29	5 43	5 45
M20	2 16	18 8	4 9	14 34	2 53	22 20	4 25	19 17	1 14	16 47	1 13	21 41	1 7	5 24	0 40	17 34	0 8	20 59	2 23	5 24	5 27	23 31	5 44	5 44
T 21	2 39	12 46	3 18	14 58	2 58	22 38	4 30	19 9	1 15	16 47	1 13	21 41	1 7	5 23	0 40	17 34	0 8	20 59	2 23	5 23	5 26	23 33	5 45	5 44
W22	3 3	6 57	2 18	15 21	3 3	22 55	4 34	19 0	1 15	16 48	1 13	21 42	1 7	5 22	0 40	17 33	0 8	20 59	2 23	5 23	5 25	23 35	5 46	5 44
T 23	3 26	0 57	1 12	15 41	3 7	23 12	4 39	18 51	1 16	16 49	1 13	21 42	1 6	5 22	0 40	17 33	0 8	20 59	2 23	5 23	5 24	23 37	5 47	5 44
F 24	3 50	5n 0	0 4	16 0	3 10	23 28	4 43	18 42	1 17	16 49	1 13	21 43	1 6	5 21	0 40	17 32	0 8	20 59	2 23	5 23	5 22	23 40	5 48	5 43
S 25	4 13	10 41	1n 3	16 17	3 13	23 44	4 48	18 33	1 18	16 50	1 13	21 43	1 6	5 20	0 40	17 32	0 8	20 59	2 23	5 23	5 21	23 42	5 49	5 43
S 26	4 36	15 54	2 7	16 31	3 16	23 59	4 52	18 24	1 19	16 50	1 12	21 44	1 6	5 19	0 40	17 32	0 8	20 59	2 23	5 23	5 20	23 44	5 50	5 43
M27	5 0	20 28	3 4	16 43	3 17	24 14	4 56	18 15	1 19	16 51	1 12	21 45	1 6	5 18	0 40	17 31	0 8	20 59	2 23	5 23	5 19	23 46	5 51	5 42
T 28	5 23	24 11	3 53	16 53	3 18	24 28	5 0	18 5	1 20	16 51	1 12	21 45	1 6	5 17	0 40	17 31	0 8	20 59	2 23	5 23	5 17	23 48	5 52	5 42
W29	5 46	26 53	4 32	16 59	3 18	24 42	5 3	17 56	1 21	16 51	1 12	21 46	1 5	5 16	0 40	17 31	0 8	20 59	2 23	5 23	5 16	23 50	5 53	5 42
T 30	6s 9	28n24	5n 0	17s 3	3s16	24s55	5s 7	17n46	1n22	16s51	1s12	21s46	1n 5	5n15	0s40	17n30	0n 8	20n59	2s23	5n23	5n15	23n52	5s54	5n42

ASTRODIENST EPHEMERIS for the year 1428
geocentric

OCTOBER 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	1 13 50	16♌34'36	6♋30	7°R19	29♍23	15♌17	17°R14	16♌50	14°R49	11♌34	6°R13	13°R36	13°V12	0♏4	0°R46	F 1
S 2	1 17 47	17°34'15	18°40	7♍19	0♌3	15°52	17♌14	16°54	14°V46	11°35	6♋13	13°D35	13° 9	0°10	0°K44	S 2
S 3	1 21 43	18°33'56	1♌6	7°10	0°42	16°27	17°13	16°59	14°44	11°36	6°13	13°V36	13° 6	0°17	0°42	S 3
M 4	1 25 40	19°33'39	13°52	6°53	1°19	17° 1	17°D13	17° 4	14°41	11°37	6°13	13°36	13° 2	0°24	0°41	M 4
T 5	1 29 36	20°33'25	27° 1	6°28	1°56	17°35	17°13	17° 9	14°39	11°38	6°13	13°37	12°59	0°30	0°39	T 5
W 6	1 33 33	21°33'13	10♍36	5°53	2°31	18° 9	17°13	17°14	14°36	11°39	6°12	13°37	12°56	0°37	0°38	W 6
T 7	1 37 29	22°33'03	24°37	5°10	3° 4	18°44	17°14	17°18	14°34	11°40	6°12	13°38	12°53	0°44	0°36	T 7
F 8	1 41 26	23°32'55	9♌2	4°18	3°37	19°18	17°14	17°23	14°32	11°41	6°12	13°R38	12°50	0°51	0°35	F 8
S 9	1 45 23	24°32'49	23°46	3°18	4° 8	19°51	17°15	17°29	14°29	11°42	6°12	13°38	12°46	0°57	0°33	S 9
S 10	1 49 19	25°32'45	8♍43	2°11	4°37	20°25	17°16	17°34	14°27	11°43	6°11	13°38	12°43	1° 4	0°32	S 10
M 11	1 53 16	26°32'43	23°44	0°59	5° 5	20°59	17°18	17°39	14°24	11°44	6°11	13°36	12°40	1°11	0°31	M 11
T 12	1 57 12	27°32'43	8♌40	29♌43	5°31	21°33	17°19	17°44	14°22	11°45	6°11	13°35	12°37	1°17	0°29	T 12
W 13	2 1 9	28°32'45	23°24	28°26	5°56	22° 6	17°21	17°50	14°20	11°45	6°11	13°33	12°34	1°24	0°28	W 13
T 14	2 5 5	29°32'48	7♋51	27° 9	6°19	22°39	17°22	17°55	14°17	11°46	6°10	13°31	12°31	1°31	0°27	T 14
F 15	2 9 2	0♍32'53	21°55	25°56	6°40	23°13	17°24	18° 0	14°15	11°47	6°10	13°30	12°27	1°37	0°26	F 15
S 16	2 12 58	1°33'00	5♌38	24°49	6°59	23°46	17°27	18° 6	14°13	11°48	6° 9	13°D30	12°24	1°44	0°25	S 16
S 17	2 16 55	2°33'08	18°59	23°49	7°16	24°19	17°29	18°11	14°10	11°48	6° 9	13°31	12°21	1°51	0°24	S 17
M 18	2 20 52	3°33'17	2♌0	22°58	7°31	24°52	17°32	18°17	14° 8	11°49	6° 8	13°32	12°18	1°57	0°23	M 18
T 19	2 24 48	4°33'28	14°44	22°18	7°44	25°24	17°35	18°23	14° 6	11°50	6° 8	13°34	12°15	2° 4	0°22	T 19
W 20	2 28 45	5°33'41	27°13	21°50	7°55	25°57	17°38	18°29	14° 4	11°50	6° 7	13°35	12°12	2°11	0°22	W 20
T 21	2 32 41	6°33'55	9♏31	21°33	8° 3	26°30	17°41	18°34	14° 2	11°51	6° 7	13°R36	12° 8	2°18	0°21	T 21
F 22	2 36 38	7°34'11	21°39	21°D28	8°10	27° 2	17°44	18°40	13°59	11°51	6° 6	13°36	12° 5	2°24	0°20	F 22
S 23	2 40 34	8°34'28	3♌41	21°33	8°14	27°34	17°48	18°46	13°57	11°52	6° 6	13°34	12° 2	2°31	0°20	S 23
S 24	2 44 31	9°34'48	15°36	21°50	8°R16	28° 6	17°52	18°52	13°55	11°52	6° 5	13°31	11°59	2°38	0°19	S 24
M 25	2 48 27	10°35'09	27°29	22°16	8°15	28°39	17°56	18°58	13°53	11°52	6° 5	13°27	11°56	2°44	0°19	M 25
T 26	2 52 24	11°35'32	9♏19	22°52	8°12	29°10	18° 0	19° 4	13°51	11°53	6° 4	13°22	11°52	2°51	0°18	T 26
W 27	2 56 21	12°35'56	21°10	23°35	8° 7	29°42	18° 4	19°10	13°49	11°53	6° 3	13°17	11°49	2°58	0°18	W 27
T 28	3 0 17	13°36'23	3♋3	24°26	7°59	0♍14	18° 9	19°16	13°47	11°53	6° 3	13°12	11°46	3° 4	0°18	T 28
F 29	3 4 14	14°36'51	15° 3	25°23	7°48	0°45	18°13	19°22	13°45	11°54	6° 2	13° 7	11°43	3°11	0°17	F 29
S 30	3 8 10	15°37'21	27°11	26°25	7°35	1°17	18°18	19°29	13°43	11°54	6° 1	13° 4	11°40	3°18	0°17	S 30
S 31	3 12 7	16♍37'53	9♌33	27♌32	7♌20	1♍48	18♌23	19♌35	13°V41	11♌54	6♋1	13°V 3	11°V37	3♏24	0°K17	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
F 1	6s32	28n36	5n15	17s 3	3s14	25s 8	5s10	17n37	1n22	16s51	1s12	21s47	1n 5	5n14	0s40	17n30	0n 8	20n59	2s23	5n23	5n14	23n54	5s55	5n41
S 2	6 55	27 26	5 16	16 59	3 10	25 20	5 14	17 27	1 23	16 51	1 12	21 47	1 5	5 13	0 40	17 30	0 8	20 59	2 23	5 23	5 12	23 56	5 56	5 41
S 3	7 18	24 54	5 3	16 52	3 5	25 31	5 17	17 18	1 24	16 51	1 11	21 48	1 5	5 12	0 40	17 29	0 8	20 59	2 23	5 23	5 11	23 58	5 57	5 41
M 4	7 41	21 5	4 34	16 40	2 58	25 42	5 20	17 8	1 25	16 51	1 11	21 49	1 5	5 11	0 40	17 29	0 8	20 59	2 23	5 23	5 10	24 0	5 58	5 40
T 5	8 3	16 9	3 51	16 23	2 50	25 52	5 22	16 58	1 26	16 51	1 11	21 49	1 5	5 10	0 40	17 29	0 8	20 59	2 23	5 23	5 9	24 2	5 58	5 40
W 6	8 26	10 17	2 53	16 3	2 40	26 2	5 25	16 48	1 27	16 51	1 11	21 50	1 4	5 9	0 40	17 29	0 8	20 59	2 23	5 24	5 7	24 4	5 59	5 40
T 7	8 48	3 44	1 44	15 37	2 28	26 11	5 27	16 39	1 27	16 51	1 11	21 51	1 4	5 8	0 40	17 28	0 8	20 59	2 23	5 24	5 6	24 6	6 0	5 39
F 8	9 10	3s12	0 26	15 6	2 15	26 19	5 29	16 29	1 28	16 50	1 11	21 51	1 4	5 7	0 40	17 28	0 8	20 59	2 23	5 24	5 5	24 8	6 1	5 39
S 9	9 32	10 7	0s56	14 32	2 0	26 27	5 31	16 19	1 29	16 50	1 11	21 52	1 4	5 7	0 40	17 28	0 8	20 59	2 23	5 24	5 4	24 10	6 2	5 39
S 10	9 54	16 34	2 14	13 52	1 43	26 34	5 32	16 9	1 30	16 50	1 10	21 52	1 4	5 6	0 40	17 28	0 8	21 0	2 23	5 24	5 2	24 12	6 2	5 38
M11	10 16	22 3	3 24	13 10	1 24	26 41	5 34	15 59	1 31	16 49	1 10	21 53	1 4	5 5	0 40	17 27	0 8	21 0	2 23	5 23	5 1	24 14	6 3	5 38
T 12	10 38	26 5	4 19	12 25	1 5	26 47	5 35	15 49	1 32	16 49	1 10	21 54	1 4	5 4	0 40	17 27	0 8	21 0	2 23	5 22	5 0	24 16	6 4	5 38
W13	11 0	28 17	4 57	11 38	0 44	26 52	5 35	15 39	1 32	16 48	1 10	21 54	1 3	5 3	0 40	17 27	0 8	21 0	2 23	5 22	4 59	24 18	6 5	5 37
T 14	11 21	28 31	5 14	10 52	0 24	26 56	5 36	15 28	1 33	16 47	1 10	21 55	1 3	5 2	0 40	17 27	0 8	21 0	2 23	5 21	4 57	24 20	6 5	5 37
F 15	11 42	26 52	5 13	10 6	0 3	27 0	5 36	15 18	1 34	16 46	1 10	21 56	1 3	5 1	0 40	17 27	0 8	21 0	2 23	5 21	4 56	24 22	6 6	5 37
S 16	12 3	23 39	4 53	9 22	0n17	27 3	5 35	15 8	1 35	16 46	1 10	21 56	1 3	5 0	0 40	17 26	0 8	21 0	2 23	5 21	4 55	24 24	6 7	5 36
S 17	12 24	19 15	4 18	8 42	0 36	27 5	5 35	14 58	1 36	16 45	1 9	21 57	1 3	4 59	0 40	17 26	0 8	21 0	2 23	5 21	4 54	24 26	6 7	5 36
M18	12 44	14 4	3 30	8 7	0 54	27 7	5 34	14 48	1 37	16 44	1 9	21 57	1 3	4 58	0 40	17 26	0 8	21 0	2 23	5 22	4 53	24 28	6 8	5 36
T 19	13 5	8 23	2 33	7 37	1 11	27 8	5 32	14 37	1 38	16 43	1 9	21 58	1 3	4 58	0 40	17 26	0 8	21 0	2 23	5 22	4 51	24 30	6 9	5 35
W20	13 25	2 28	1 29	7 13	1 25	27 8	5 30	14 27	1 38	16 42	1 9	21 59	1 2	4 57	0 40	17 26	0 8	21 0	2 23	5 23	4 50	24 32	6 9	5 35
T 21	13 45	3n26	0 22	6 55	1 38	27 7	5 28	14 17	1 39	16 41	1 9	21 59	1 2	4 56	0 40	17 26	0 8	21 0	2 23	5 23	4 49	24 34	6 10	5 34
F 22	14 5	9 9	0n44	6 42	1 49	27 5	5 25	14 6	1 40	16 39	1 9	22 0	1 2	4 55	0 40	17 26	0 8	21 0	2 23	5 23	4 48	24 36	6 10	5 34
S 23	14 24	14 29	1 48	6 36	1 58	27 2	5 22	13 56	1 41	16 38	1 9	22 1	1 2	4 54	0 40	17 25	0 9	21 0	2 23	5 22	4 46	24 37	6 11	5 34
S 24	14 44	19 13	2 47	6 36	2 6	26 59	5 18	13 46	1 42	16 37	1 8	22 1	1 2	4 53	0 40	17 25	0 9	21 0	2 23	5 21	4 45	24 39	6 12	5 33
M25	15 3	23 11	3 38	6 40	2 11	26 54	5 13	13 35	1 43	16 35	1 8	22 2	1 2	4 53	0 40	17 25	0 9	21 0	2 23	5 20	4 44	24 41	6 12	5 33
T 26	15 22	26 11	4 19	6 49	2 15	26 49	5 8	13 25	1 44	16 34	1 8	22 2	1 2	4 52	0 40	17 25	0 9	21 0	2 23	5 18	4 43	24 43	6 13	5 33
W27	15 40	28 2	4 49	7 3	2 18	26 43	5 3	13 15	1 45	16 32	1 8	22 3	1 2	4 51	0 40	17 25	0 9	21 0	2 23	5 16	4 41	24 45	6 13	5 32
T 28	15 58	28 36	5 7	7 20	2 20	26 35	4 57	13 4	1 46	16 31	1 8	22 4	1 1	4 50	0 40	17 25	0 9	21 0	2 23	5 14	4 40	24 47	6 13	5 32
F 29	16 16	27 50	5 12	7 41	2 20	26 27	4 50	12 54	1 46	16 29	1 8	22 4	1 1	4 50	0 40	17 25	0 9	21 0	2 23	5 12	4 39	24 49	6 14	5 32
S 30	16 34	25 44	5 3	8 4	2 19	26 17	4 43	12 44	1 47	16 28	1 8	22 5	1 1	4 49	0 40	17 25	0 9	21 0	2 23	5 11	4 38	24 51	6 14	5 31
S 31	16s52	22n24	4n39	8s30	2n17	26s 7	4s35	12n33	1n48	16s26	1s 7	22s 5	1n 1	4n48	0s40	17n25	0n 9	21n 0	2s23	5n10	4n36	24n52	6s15	5n31

ASTRODIENST EPHEMERIS for the year 1428

geocentric

NOVEMBER 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	3 16 3	17 ¹¹ 38'27	22 ¹¹ 13	28 ¹¹ 44	7°R 3	2 ¹¹ 19	18 ¹¹ 29	19 ¹¹ 41	13°R39	11 ¹¹ 54	6°R 0	13°D 2	11°Y33	3 ¹¹ 31	0°R17	M 1	
T 2	3 20 0	18°39'03	5 ¹¹ 14	29°59	6 ¹¹ 43	2°50	18°34	19°48	13°Y37	11°54	5°59	13°Y 3	11°30	3°38	0°D17	T 2	
W 3	3 23 56	19°39'40	18°40	1 ¹¹ 17	6°21	3°21	18°40	19°54	13°35	11°55	5°58	13° 5	11°27	3°45	0°X17	W 3	
T 4	3 27 53	20°40'19	2 ¹¹ 34	2°37	5°56	3°51	18°45	20° 0	13°33	11°55	5°57	13° 6	11°24	3°51	0°17	T 4	
F 5	3 31 50	21°41'00	16°55	4° 0	5°30	4°22	18°51	20° 7	13°32	11°R55	5°57	13°R 7	11°21	3°58	0°17	F 5	
S 6	3 35 46	22°41'42	1 ¹¹ 42	5°25	5° 2	4°52	18°57	20°13	13°30	11°55	5°56	13° 5	11°18	4° 5	0°17	S 6	
S 7	3 39 43	23°42'26	16°48	6°51	4°32	5°22	19° 4	20°20	13°28	11°55	5°55	13° 2	11°14	4°11	0°18	S 7	
M 8	3 43 39	24°43'12	2 ¹¹ 4	8°18	4° 1	5°52	19°10	20°26	13°26	11°54	5°54	12°57	11°11	4°18	0°18	M 8	
T 9	3 47 36	25°43'59	17°21	9°47	3°28	6°22	19°17	20°33	13°25	11°54	5°53	12°50	11° 8	4°25	0°18	T 9	
W10	3 51 32	26°44'47	2 ¹¹ 26	11°16	2°54	6°52	19°24	20°40	13°23	11°54	5°52	12°43	11° 5	4°31	0°19	W10	
T 11	3 55 29	27°45'36	17°11	12°46	2°19	7°21	19°31	20°46	13°22	11°54	5°51	12°37	11° 2	4°38	0°19	T 11	
F 12	3 59 25	28°46'26	1 ¹¹ 30	14°17	1°43	7°50	19°38	20°53	13°20	11°54	5°50	12°32	10°58	4°45	0°20	F 12	
S 13	4 3 22	29°47'17	15°20	15°48	1° 7	8°19	19°45	21° 0	13°19	11°54	5°49	12°29	10°55	4°51	0°21	S 13	
S 14	4 7 19	0 ¹¹ 48'09	28°43	17°20	0°31	8°48	19°52	21° 6	13°17	11°53	5°48	12°D28	10°52	4°58	0°21	S 14	
M15	4 11 15	1°49'01	11 ¹¹ 40	18°52	29 ¹¹ 54	9°17	20° 0	21°13	13°16	11°53	5°47	12°28	10°49	5° 5	0°22	M15	
T 16	4 15 12	2°49'55	24°16	20°24	29°18	9°45	20° 8	21°20	13°14	11°53	5°46	12°29	10°46	5°12	0°23	T 16	
W17	4 19 8	3°50'49	6°Y35	21°56	28°43	10°14	20°16	21°27	13°13	11°52	5°45	12°R30	10°43	5°18	0°24	W17	
T 18	4 23 5	4°51'44	18°42	23°29	28° 8	10°42	20°24	21°34	13°12	11°52	5°44	12°30	10°39	5°25	0°25	T 18	
F 19	4 27 1	5°52'40	0 ¹¹ 41	25° 2	27°34	11°10	20°32	21°41	13°11	11°51	5°43	12°28	10°36	5°32	0°26	F 19	
S 20	4 30 58	6°53'37	12°34	26°34	27° 1	11°37	20°40	21°47	13°10	11°51	5°42	12°24	10°33	5°38	0°27	S 20	
S 21	4 34 54	7°54'34	24°25	28° 7	26°30	12° 5	20°49	21°54	13° 8	11°50	5°41	12°17	10°30	5°45	0°28	S 21	
M22	4 38 51	8°55'33	6 ¹¹ 15	29°40	26° 1	12°32	20°57	22° 1	13° 7	11°50	5°40	12° 8	10°27	5°52	0°29	M22	
T 23	4 42 48	9°56'32	18° 7	1 ¹¹ 14	25°33	12°59	21° 6	22° 8	13° 6	11°49	5°39	11°56	10°24	5°58	0°30	T 23	
W24	4 46 44	10°57'33	0 ¹¹ 2	2°47	25° 7	13°26	21°15	22°15	13° 5	11°49	5°38	11°44	10°20	6° 5	0°32	W24	
T 25	4 50 41	11°58'34	12° 1	4°20	24°44	13°53	21°24	22°22	13° 4	11°48	5°37	11°33	10°17	6°12	0°33	T 25	
F 26	4 54 37	12°59'36	24° 6	5°54	24°22	14°19	21°33	22°29	13° 3	11°47	5°36	11°22	10°14	6°19	0°35	F 26	
S 27	4 58 34	14° 0'39	6 ¹¹ 19	7°27	24° 3	14°45	21°42	22°36	13° 3	11°47	5°34	11°13	10°11	6°25	0°36	S 27	
S 28	5 2 30	15° 1'44	18°43	9° 1	23°46	15°11	21°52	22°43	13° 2	11°46	5°33	11° 7	10° 8	6°32	0°37	S 28	
M29	5 6 27	16° 2'48	1 ¹¹ 20	10°34	23°32	15°36	22° 1	22°50	13° 1	11°45	5°32	11° 4	10° 4	6°39	0°39	M29	
T 30	5 10 24	17° 3'54	14 ¹¹ 15	12° 8	23 ¹¹ 20	16 ¹¹ 2	22°31	22°57	13°Y 0	11°44	5°31	11°D 3	10°Y 1	6 ¹¹ 45	0°41	T 30	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	17s 9	17n58	4n 2	8s57	2n15	25s56	4s26	12n23	1n49	16s24	1s 7	22s 6	1n 1	4n47	0s40	17n25	0n 9
T 2	17 26	12 36	3 12	9 27	2 12	25 43	4 17	12 13	1 50	16 22	1 7	22 7	1 1	4 47	0 40	17 25	0 9
W 3	17 42	6 29	2 9	9 57	2 8	25 29	4 7	12 2	1 51	16 20	1 7	22 7	1 1	4 46	0 40	17 25	0 9
T 4	17 59	0s 9	0 57	10 29	2 4	25 15	3 56	11 52	1 52	16 19	1 7	22 8	1 1	4 45	0 40	17 25	0 9
F 5	18 15	6 59	0s21	11 2	1 59	24 59	3 45	11 42	1 53	16 17	1 7	22 8	1 1	4 45	0 40	17 25	0 9
S 6	18 30	13 39	1 39	11 35	1 53	24 42	3 34	11 31	1 54	16 15	1 7	22 9	1 0	4 44	0 40	17 25	0 9
S 7	18 46	19 40	2 52	12 9	1 48	24 25	3 21	11 21	1 55	16 12	1 6	22 10	1 0	4 43	0 40	17 25	0 9
M 8	19 1	24 28	3 54	12 43	1 42	24 6	3 9	11 11	1 56	16 10	1 6	22 10	1 0	4 43	0 40	17 25	0 9
T 9	19 15	27 32	4 39	13 17	1 36	23 47	2 55	11 1	1 57	16 8	1 6	22 11	1 0	4 42	0 40	17 25	0 9
W10	19 29	28 33	5 4	13 51	1 29	23 27	2 41	10 51	1 58	16 6	1 6	22 11	1 0	4 41	0 40	17 25	0 9
T 11	19 43	27 30	5 8	14 24	1 23	23 6	2 27	10 41	1 59	16 3	1 6	22 12	1 0	4 41	0 40	17 25	0 9
F 12	19 57	24 38	4 52	14 58	1 16	22 44	2 12	10 31	2 0	16 1	1 6	22 12	1 0	4 40	0 40	17 25	0 9
S 13	20 10	20 25	4 20	15 31	1 9	22 22	1 58	10 21	2 1	15 59	1 6	22 13	1 0	4 40	0 40	17 25	0 9
S 14	20 23	15 18	3 34	16 4	1 2	21 59	1 42	10 11	2 2	15 56	1 5	22 14	1 0	4 39	0 40	17 25	0 9
M15	20 35	9 39	2 38	16 36	0 55	21 37	1 27	10 1	2 3	15 54	1 5	22 14	0 59	4 39	0 40	17 25	0 9
T 16	20 48	3 46	1 37	17 8	0 48	21 14	1 11	9 51	2 4	15 51	1 5	22 15	0 59	4 38	0 39	17 26	0 9
W17	20 59	2n 8	0 32	17 39	0 41	20 51	0 56	9 41	2 5	15 48	1 5	22 15	0 59	4 38	0 39	17 26	0 9
T 18	21 10	7 52	0n33	18 9	0 34	20 28	0 40	9 31	2 6	15 46	1 5	22 16	0 59	4 37	0 39	17 26	0 9
F 19	21 21	13 15	1 36	18 39	0 27	20 5	0 25	9 22	2 7	15 43	1 5	22 16	0 59	4 37	0 39	17 26	0 9
S 20	21 32	18 6	2 34	19 8	0 20	19 42	0 9	9 12	2 8	15 40	1 5	22 17	0 59	4 36	0 39	17 26	0 9
S 21	21 42	22 14	3 25	19 36	0 13	19 20	0n 6	9 3	2 9	15 37	1 5	22 17	0 59	4 36	0 39	17 26	0 9
M22	21 52	25 28	4 7	20 3	0 6	18 59	0 21	8 53	2 10	15 34	1 4	22 18	0 59	4 36	0 39	17 26	0 9
T 23	22 1	27 36	4 38	20 29	0s 1	18 38	0 36	8 44	2 12	15 31	1 4	22 18	0 59	4 35	0 39	17 27	0 9
W24	22 10	28 28	4 57	20 55	0 8	18 18	0 50	8 34	2 13	15 29	1 4	22 19	0 59	4 35	0 39	17 27	0 9
T 25	22 18	28 0	5 3	21 19	0 15	17 58	1 4	8 25	2 14	15 25	1 4	22 19	0 59	4 35	0 39	17 27	0 9
F 26	22 26	26 13	4 56	21 43	0 21	17 40	1 18	8 16	2 15	15 22	1 4	22 20	0 59	4 34	0 39	17 27	0 9
S 27	22 33	23 11	4 35	22 5	0 28	17 22	1 31	8 7	2 16	15 19	1 4	22 20	0 58	4 34	0 39	17 27	0 9
S 28	22 40	19 5	4 1	22 26	0 34	17 6	1 44	7 58	2 17	15 16	1 4	22 21	0 58	4 34	0 39	17 28	0 9
M29	22 47	14 4	3 15	22 47	0 41	16 51	1 56	7 49	2 18	15 13	1 4	22 21	0 58	4 33	0 39	17 28	0 9
T 30	22s53	8n20	2n17	23s 6	0s47	16s36	2n 8	7n40	2n19	15s10	1s 3	22s22	0n58	4n33	0s39	17n28	0n 9

Julian Day Number = 2242939.5, Delta T = 07m06s

Ecliptic obliquity = 23°30'57, Nutation = - 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°46'20, Lahiri = 15°53'21 Julian Calendar 1 Nov. 1428 == Greg. Calendar 10 Nov. 1428

ASTRODIENST EPHEMERIS for the year 1428

geocentric

DECEMBER 1428 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	5 14 20	18° 5'01"	27° 32'	13° 42'	23° 11'	16° 27'	22° 21'	23° 4'	13° 0'	11° 43'	5° 30'	11° 3'	9° 58'	6° 52'	0° 42'	W 1
T 2	5 18 17	19° 6'08"	11° 12'	15° 16'	23° 11'	16° 52'	22° 31'	23° 11'	12° 59'	11° 43'	5° 29'	11° 3'	9° 55'	6° 59'	0° 44'	T 2
F 3	5 22 13	20° 7'17"	25° 20'	16° 51'	23° 0'	17° 16'	22° 41'	23° 18'	12° 59'	11° 42'	5° 27'	11° 3'	9° 52'	7° 5'	0° 46'	F 3
S 4	5 26 10	21° 8'26"	9° 54'	18° 25'	22° 58'	17° 41'	22° 51'	23° 25'	12° 58'	11° 41'	5° 26'	11° 0'	9° 49'	7° 12'	0° 48'	S 4
S 5	5 30 6	22° 9'36"	24° 50'	20° 0'	22° 59'	18° 5'	23° 1'	23° 32'	12° 58'	11° 40'	5° 25'	10° 54'	9° 45'	7° 19'	0° 50'	S 5
M 6	5 34 3	23° 10'47"	10° 2'	21° 35'	23° 2'	18° 28'	23° 12'	23° 39'	12° 57'	11° 39'	5° 24'	10° 45'	9° 42'	7° 26'	0° 52'	M 6
T 7	5 37 59	24° 11'58"	25° 20'	23° 10'	23° 7'	18° 52'	23° 22'	23° 47'	12° 57'	11° 38'	5° 23'	10° 35'	9° 39'	7° 32'	0° 54'	T 7
W 8	5 41 56	25° 13'09"	10° 33'	24° 45'	23° 15'	19° 15'	23° 33'	23° 54'	12° 57'	11° 37'	5° 21'	10° 24'	9° 36'	7° 39'	0° 56'	W 8
T 9	5 45 53	26° 14'21"	25° 29'	26° 21'	23° 25'	19° 37'	23° 44'	24° 1'	12° 56'	11° 36'	5° 20'	10° 13'	9° 33'	7° 46'	0° 58'	T 9
F 10	5 49 49	27° 15'33"	10° 30'	27° 57'	23° 37'	20° 0'	23° 55'	24° 8'	12° 56'	11° 35'	5° 19'	10° 3'	9° 30'	7° 52'	1° 0'	F 10
S 11	5 53 46	28° 16'44"	24° 2'	29° 33'	23° 52'	20° 22'	24° 6'	24° 15'	12° 56'	11° 34'	5° 18'	9° 57'	9° 26'	7° 59'	1° 2'	S 11
S 12	5 57 42	29° 17'56"	7° 33'	1° 3'	24° 8'	20° 44'	24° 17'	24° 22'	12° 56'	11° 32'	5° 16'	9° 53'	9° 23'	8° 6'	1° 4'	S 12
M13	6 1 39	0° 31'07"	20° 36'	2° 46'	24° 27'	21° 5'	24° 28'	24° 29'	12° 56'	11° 31'	5° 15'	9° 51'	9° 20'	8° 13'	1° 7'	M13
T 14	6 5 35	1° 20'19"	3° 14'	4° 23'	24° 47'	21° 26'	24° 39'	24° 36'	12° 56'	11° 30'	5° 14'	9° 51'	9° 17'	8° 19'	1° 9'	T 14
W15	6 9 32	2° 21'29"	15° 32'	6° 0'	25° 10'	21° 47'	24° 51'	24° 43'	12° 56'	11° 29'	5° 13'	9° 51'	9° 14'	8° 26'	1° 11'	W15
T 16	6 13 28	3° 22'40"	27° 35'	7° 38'	25° 34'	22° 7'	25° 2'	24° 50'	12° 56'	11° 28'	5° 11'	9° 50'	9° 10'	8° 33'	1° 14'	T 16
F 17	6 17 25	4° 23'51"	9° 30'	9° 16'	26° 0'	22° 27'	25° 14'	24° 57'	12° 56'	11° 26'	5° 10'	9° 47'	9° 7'	8° 39'	1° 16'	F 17
S 18	6 21 22	5° 25'01"	21° 20'	10° 54'	26° 27'	22° 47'	25° 25'	25° 4'	12° 57'	11° 25'	5° 9'	9° 41'	9° 4'	8° 46'	1° 19'	S 18
S 19	6 25 18	6° 26'11"	3° 11'	12° 32'	26° 57'	23° 6'	25° 37'	25° 11'	12° 57'	11° 24'	5° 8'	9° 32'	9° 1'	8° 53'	1° 21'	S 19
M20	6 29 15	7° 27'21"	15° 0'	14° 11'	27° 28'	23° 25'	25° 49'	25° 18'	12° 57'	11° 23'	5° 6'	9° 20'	8° 58'	8° 59'	1° 24'	M20
T 21	6 33 11	8° 28'31"	26° 56'	15° 50'	28° 0'	23° 43'	26° 1'	25° 25'	12° 58'	11° 21'	5° 5'	9° 6'	8° 55'	9° 6'	1° 27'	T 21
W22	6 37 8	9° 29'40"	8° 58'	17° 30'	28° 34'	24° 1'	26° 13'	25° 32'	12° 58'	11° 20'	5° 4'	8° 51'	8° 51'	9° 13'	1° 29'	W22
T 23	6 41 4	10° 30'49"	21° 7'	19° 10'	29° 9'	24° 19'	26° 25'	25° 39'	12° 59'	11° 18'	5° 3'	8° 36'	8° 48'	9° 20'	1° 32'	T 23
F 24	6 45 1	11° 31'58"	3° 23'	20° 49'	29° 46'	24° 36'	26° 37'	25° 45'	12° 59'	11° 17'	5° 1'	8° 23'	8° 45'	9° 26'	1° 35'	F 24
S 25	6 48 58	12° 33'07"	15° 48'	22° 29'	0° 24'	24° 53'	26° 50'	25° 52'	13° 0'	11° 16'	5° 0'	8° 12'	8° 42'	9° 33'	1° 38'	S 25
S 26	6 52 54	13° 34'15"	28° 22'	24° 9'	1° 3'	25° 9'	27° 2'	25° 59'	13° 0'	11° 14'	4° 59'	8° 4'	8° 39'	9° 40'	1° 41'	S 26
M27	6 56 51	14° 35'23"	11° 8'	25° 49'	1° 44'	25° 25'	27° 14'	26° 6'	13° 1'	11° 13'	4° 58'	7° 59'	8° 36'	9° 46'	1° 44'	M27
T 28	7 0 47	15° 36'31"	24° 7'	27° 29'	2° 25'	25° 41'	27° 27'	26° 13'	13° 2'	11° 11'	4° 56'	7° 56'	8° 32'	9° 53'	1° 46'	T 28
W29	7 4 44	16° 37'39"	7° 22'	29° 9'	3° 8'	25° 55'	27° 39'	26° 20'	13° 3'	11° 10'	4° 55'	7° 56'	8° 29'	10° 0'	1° 49'	W29
T 30	7 8 40	17° 38'47"	20° 56'	0° 48'	3° 52'	26° 10'	27° 52'	26° 26'	13° 3'	11° 8'	4° 54'	7° 56'	8° 26'	10° 7'	1° 52'	T 30
F 31	7 12 37	18° 39'54"	4° 50'	2° 26'	4° 37'	26° 24'	28° 5'	26° 33'	13° 4'	11° 7'	4° 53'	7° 55'	8° 23'	10° 13'	1° 56'	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	22s59	2n 5	1n11	23s24	0s53	16s23	2n19	7n31	2n20	15s 6	1s 3	22s22	0n58	4n33	0s39	17n28	0n 9
T 2	23 4	4s28	0s 1	23 40	0 59	16 11	2 30	7 23	2 22	15 3	1 3	22 22	0 58	4 33	0 39	17 29	0 9
F 3	23 9	11 0	1 15	23 56	1 5	16 0	2 40	7 14	2 23	15 0	1 3	22 23	0 58	4 33	0 39	17 29	0 9
S 4	23 13	17 9	2 27	24 10	1 10	15 50	2 50	7 6	2 24	14 56	1 3	22 23	0 58	4 32	0 39	17 29	0 9
S 5	23 17	22 26	3 30	24 24	1 16	15 42	2 59	6 57	2 25	14 53	1 3	22 24	0 58	4 32	0 39	17 29	0 9
M 6	23 20	26 18	4 19	24 35	1 21	15 34	3 7	6 49	2 26	14 49	1 3	22 24	0 58	4 32	0 39	17 30	0 9
T 7	23 23	28 16	4 51	24 46	1 26	15 27	3 16	6 41	2 28	14 46	1 3	22 24	0 58	4 32	0 39	17 30	0 9
W 8	23 26	28 6	5 1	24 55	1 30	15 22	3 23	6 33	2 29	14 42	1 3	22 25	0 58	4 32	0 39	17 30	0 9
T 9	23 28	25 52	4 51	25 3	1 35	15 17	3 30	6 25	2 30	14 38	1 3	22 25	0 58	4 32	0 39	17 31	0 9
F 10	23 29	21 59	4 21	25 9	1 39	15 14	3 37	6 17	2 31	14 35	1 2	22 26	0 58	4 32	0 39	17 31	0 9
S 11	23 30	16 58	3 37	25 14	1 43	15 11	3 43	6 10	2 33	14 31	1 2	22 26	0 58	4 32	0 39	17 31	0 9
S 12	23 31	11 16	2 42	25 18	1 47	15 10	3 49	6 2	2 34	14 27	1 2	22 26	0 57	4 32	0 39	17 32	0 9
M13	23 31	5 16	1 40	25 20	1 51	15 9	3 54	5 55	2 35	14 23	1 2	22 27	0 57	4 32	0 39	17 32	0 9
T 14	23 31	0n45	0 35	25 20	1 54	15 9	3 59	5 48	2 36	14 19	1 2	22 27	0 57	4 32	0 38	17 32	0 9
W15	23 30	6 36	0n30	25 19	1 57	15 10	4 4	5 41	2 38	14 15	1 2	22 27	0 57	4 32	0 38	17 33	0 9
T 16	23 28	12 5	1 32	25 17	1 59	15 12	4 8	5 34	2 39	14 11	1 2	22 28	0 57	4 32	0 38	17 33	0 9
F 17	23 27	17 4	2 30	25 13	2 1	15 14	4 12	5 27	2 40	14 7	1 2	22 28	0 57	4 32	0 38	17 33	0 9
S 18	23 24	21 22	3 20	25 7	2 3	15 17	4 15	5 21	2 42	14 3	1 2	22 28	0 57	4 32	0 38	17 34	0 9
S 19	23 22	24 48	4 2	25 0	2 5	15 21	4 18	5 14	2 43	13 59	1 2	22 29	0 57	4 32	0 38	17 34	0 9
M20	23 18	27 11	4 33	24 51	2 6	15 25	4 21	5 8	2 44	13 55	1 2	22 29	0 57	4 33	0 38	17 34	0 9
T 21	23 15	28 11	4 52	24 40	2 7	15 30	4 23	5 2	2 46	13 51	1 2	22 29	0 57	4 33	0 38	17 35	0 9
W22	23 10	28 11	4 59	24 28	2 7	15 36	4 25	4 56	2 47	13 47	1 1	22 29	0 57	4 33	0 38	17 35	0 9
T 23	23 6	26 40	4 52	24 14	2 7	15 41	4 27	4 50	2 48	13 43	1 1	22 30	0 57	4 33	0 38	17 36	0 9
F 24	23 1	23 52	4 32	23 59	2 6	15 48	4 28	4 45	2 50	13 39	1 1	22 30	0 57	4 34	0 38	17 36	0 10
S 25	22 55	19 56	3 58	23 42	2 5	15 55	4 29	4 39	2 51	13 34	1 1	22 30	0 57	4 34	0 38	17 36	0 10
S 26	22 49	15 5	3 12	23 23	2 4	16 2	4 30	4 34	2 52	13 30	1 1	22 31	0 57	4 34	0 38	17 37	0 10
M27	22 43	9 31	2 16	23 2	2 2	16 9	4 31	4 29	2 54	13 26	1 1	22 31	0 57	4 34	0 38	17 37	0 10
T 28	22 36	3 27	1 12	22 40	1 59	16 17	4 31	4 24	2 55	13 21	1 1	22 31	0 57	4 35	0 38	17 38	0 10
W29	22 29	2s53	0 3	22 17	1 55	16 25	4 31	4 19	2 57	13 17	1 1	22 31	0 57	4 35	0 38	17 38	0 10
T 30	22 21	9 15	1s 8	21 51	1 51	16 33	4 31	4 15	2 58	13 12	1 1	22 31	0 57	4 35	0 38	17 38	0 10
F 31	22s13	15s20	2s17	21s25	1s47	16s42	4n30	4n11	2n59	13s 8	1s 1	22s32	0n57	4n36	0s38	17n39	0n10

Julian Day Number = 2242969.5, Delta T = 07m06s

Ecliptic obliquity = 23°30'57", Nutation = - 0°00'04", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°46'24", Lahiri = 15°53'25" Julian Calendar 1 Dec. 1428 == Greg. Calendar 10 Dec. 1428