



# Astrodienst Ephemeris Tables for the year 2002

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 2002

## geocentric

JANUARY 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 41 53	10°23'01	18° 7	25°35	7°10	16°53	10°R40	9°R19	22°27	7°27	16° 2	27°R10	26°II21	14°41	2°10	T 1
W 2	6 45 50	11°24'09	15°40	27° 7	8°25	17°37	10°32	9°II16	22°30	7°29	16° 4	27°II 8	26°18	14°48	2°16	W 2
T 3	6 49 46	12°25'18	0°16	28°39	9°41	18°21	10°24	9°12	22°33	7°31	16° 6	27° 6	26°15	14°54	2°23	T 3
F 4	6 53 43	13°26'26	14°47	0° 9	10°56	19° 5	10°16	9° 8	22°36	7°33	16° 9	27° 5	26°12	15° 1	2°29	F 4
S 5	6 57 39	14°27'35	29°10	1°37	12°12	19°48	10° 8	9° 5	22°39	7°35	16°11	27° 3	26° 9	15° 8	2°36	S 5
S 6	7 1 36	15°28'44	13°21	3° 4	13°27	20°32	9°59	9° 1	22°42	7°37	16°13	27°D 3	26° 6	15°15	2°42	S 6
M 7	7 5 33	16°29'53	27°18	4°28	14°43	21°16	9°51	8°58	22°45	7°39	16°15	27° 3	26° 2	15°21	2°48	M 7
T 8	7 9 29	17°31'02	11°16	5°49	15°58	22° 0	9°43	8°55	22°48	7°42	16°17	27° 4	25°59	15°28	2°55	T 8
W 9	7 13 26	18°32'12	24°29	7° 7	17°14	22°44	9°35	8°51	22°51	7°44	16°19	27° 6	25°56	15°35	3° 1	W 9
T 10	7 17 22	19°33'21	7°43	8°22	18°29	23°28	9°28	8°48	22°54	7°46	16°21	27° 7	25°53	15°41	3° 7	T 10
F 11	7 21 19	20°34'31	20°44	9°31	19°45	24°12	9°20	8°45	22°57	7°48	16°23	27°R 8	25°50	15°48	3°13	F 11
S 12	7 25 15	21°35'40	3°33	10°36	21° 0	24°56	9°12	8°42	23° 0	7°50	16°25	27° 8	25°46	15°55	3°20	S 12
S 13	7 29 12	22°36'49	16°11	11°34	22°16	25°39	9° 4	8°39	23° 3	7°52	16°27	27° 7	25°43	16° 2	3°26	S 13
M14	7 33 8	23°37'58	28°37	12°25	23°31	26°23	8°57	8°37	23° 6	7°55	16°29	27° 4	25°40	16° 8	3°32	M14
T 15	7 37 5	24°39'07	10°53	13° 9	24°47	27° 7	8°49	8°34	23° 9	7°57	16°31	27° 0	25°37	16°15	3°38	T 15
W16	7 41 2	25°40'14	23° 0	13°44	26° 2	27°51	8°41	8°31	23°12	7°59	16°33	26°55	25°34	16°22	3°45	W16
T 17	7 44 58	26°41'22	4°59	14°10	27°17	28°35	8°34	8°29	23°16	8° 1	16°35	26°49	25°31	16°29	3°51	T 17
F 18	7 48 55	27°42'28	16°52	14°25	28°33	29°18	8°27	8°27	23°19	8° 4	16°36	26°44	25°27	16°35	3°57	F 18
S 19	7 52 51	28°43'34	28°44	14°R29	29°48	0°Y 2	8°20	8°24	23°22	8° 6	16°38	26°39	25°24	16°42	4° 3	S 19
S 20	7 56 48	29°44'39	10°Y36	14°22	1° 4	0°46	8°12	8°22	23°25	8° 8	16°40	26°36	25°21	16°49	4° 9	S 20
M21	8 0 44	0°45'43	22°33	14° 3	2°19	1°29	8° 5	8°20	23°28	8°10	16°42	26°34	25°18	16°55	4°15	M21
T 22	8 4 41	1°46'46	4°41	13°32	3°35	2°13	7°59	8°18	23°32	8°13	16°44	26°D33	25°15	17° 2	4°21	T 22
W23	8 8 37	2°47'48	17° 3	12°51	4°50	2°57	7°52	8°16	23°35	8°15	16°45	26°34	25°12	17° 9	4°27	W23
T 24	8 12 34	3°48'49	29°45	11°59	6° 5	3°40	7°45	8°15	23°38	8°17	16°47	26°36	25° 8	17°16	4°33	T 24
F 25	8 16 31	4°49'50	12°II51	10°59	7°21	4°24	7°39	8°13	23°42	8°20	16°49	26°37	25° 5	17°22	4°38	F 25
S 26	8 20 27	5°50'49	26°23	9°51	8°36	5° 8	7°32	8°12	23°45	8°22	16°51	26°R38	25° 2	17°29	4°44	S 26
S 27	8 24 24	6°51'47	10°22	8°39	9°52	5°51	7°26	8°10	23°48	8°24	16°52	26°37	24°59	17°36	4°50	S 27
M28	8 28 20	7°52'44	24°48	7°24	11° 7	6°35	7°20	8° 9	23°52	8°26	16°54	26°35	24°56	17°43	4°56	M28
T 29	8 32 17	8°53'41	9°II34	6° 8	12°22	7°18	7°14	8° 8	23°55	8°29	16°56	26°30	24°52	17°49	5° 2	T 29
W30	8 36 13	9°54'36	24°34	4°54	13°38	8° 2	7° 8	8° 7	23°58	8°31	16°57	26°23	24°49	17°56	5° 7	W30
T 31	8 40 10	10°55'30	9°II38	3°44	14°53	8°Y45	7°23	8°II 6	24° 2	8°33	16°59	26°II16	24°II46	18° 3	5°13	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	23s 2	22n47	2n57	23s 2	2s 3	23s39	0s24	5s50	0s42	23n 1	0n 0	20n 4	1s48	14s41	0s42	T 1
W 2	22 57	19 54	3 57	22 41	2 0	23 37	0 26	5 31	0 41	23 2	0 0	20 3	1 48	14 41	0 42	W 2
T 3	22 52	15 46	4 42	22 19	1 55	23 34	0 29	5 13	0 40	23 2	0 0	20 3	1 48	14 40	0 42	T 3
F 4	22 46	10 44	5 8	21 55	1 51	23 30	0 31	4 55	0 39	23 3	0 1	20 3	1 48	14 39	0 42	F 4
S 5	22 39	5 9	5 15	21 30	1 45	23 26	0 33	4 37	0 37	23 4	0 1	20 2	1 48	14 38	0 42	S 5
S 6	22 32	0s37	5 3	21 4	1 38	23 21	0 35	4 18	0 36	23 5	0 1	20 2	1 47	14 37	0 42	S 6
M 7	22 25	6 16	4 33	20 37	1 31	23 15	0 37	4 0	0 35	23 5	0 1	20 2	1 47	14 36	0 42	M 7
T 8	22 18	11 31	3 47	20 9	1 23	23 8	0 40	3 42	0 34	23 6	0 1	20 1	1 47	14 35	0 42	T 8
W 9	22 9	16 8	2 50	19 41	1 14	23 1	0 42	3 23	0 33	23 7	0 1	20 1	1 47	14 34	0 42	W 9
T 10	22 1	19 52	1 45	19 12	1 3	22 53	0 44	3 5	0 32	23 8	0 1	20 1	1 46	14 33	0 42	T 10
F 11	21 52	22 32	0 35	18 43	0 52	22 45	0 46	2 46	0 31	23 8	0 2	20 1	1 46	14 32	0 42	F 11
S 12	21 42	23 59	0s35	18 14	0 40	22 35	0 48	2 28	0 29	23 9	0 2	20 0	1 46	14 31	0 42	S 12
S 13	21 33	24 9	1 43	17 45	0 27	22 25	0 50	2 10	0 28	23 10	0 2	20 0	1 46	14 30	0 42	S 13
M14	21 22	23 7	2 44	17 17	0 13	22 14	0 52	1 51	0 27	23 10	0 2	20 0	1 46	14 29	0 42	M14
T 15	21 12	20 59	3 37	16 50	0n 2	22 3	0 54	1 33	0 26	23 11	0 2	20 0	1 45	14 28	0 42	T 15
W16	21 1	19 56	4 19	16 25	0 18	21 51	0 56	1 14	0 25	23 11	0 2	20 0	1 45	14 27	0 42	W16
T 17	20 47	14 10	4 50	16 1	0 35	21 38	0 57	0 56	0 24	23 12	0 2	20 0	1 45	14 25	0 42	T 17
F 18	20 37	9 54	5 7	15 40	0 53	21 25	0 59	0 38	0 23	23 13	0 3	19 59	1 45	14 24	0 42	F 18
S 19	20 25	5 16	5 12	15 22	1 11	21 11	1 1	0 19	0 22	23 13	0 3	19 59	1 44	14 23	0 42	S 19
S 20	20 12	0 27	5 3	15 6	1 29	20 56	1 3	0 1	0 21	23 14	0 3	19 59	1 44	14 22	0 42	S 20
M21	19 59	4n26	4 40	14 54	1 47	20 41	1 4	0n17	0 20	23 14	0 3	19 59	1 44	14 21	0 42	M21
T 22	19 46	9 13	4 6	14 45	2 5	20 25	1 6	0 36	0 19	23 15	0 3	19 59	1 44	14 20	0 42	T 22
W23	19 32	13 45	3 19	14 40	2 23	20 9	1 7	0 54	0 18	23 16	0 3	19 59	1 43	14 19	0 42	W23
T 24	19 18	17 48	2 21	14 39	2 39	19 52	1 9	1 12	0 17	23 16	0 3	19 59	1 43	14 18	0 42	T 24
F 25	19 9	21 7	1 14	14 41	2 54	19 34	1 10	1 31	0 16	23 17	0 3	19 59	1 43	14 17	0 42	F 25
S 26	18 49	23 22	0 1	14 47	3 7	19 16	1 12	1 49	0 15	23 17	0 4	19 59	1 43	14 16	0 42	S 26
S 27	18 33	24 16	1n14	14 55	3 18	18 57	1 13	2 7	0 14	23 18	0 4	19 59	1 42	14 15	0 42	S 27
M28	18 18	23 34	2 27	15 6	3 26	18 38	1 14	2 25	0 13	23 18	0 4	19 59	1 42	14 13	0 42	M28
T 29	18 2	21 15	3 31	15 19	3 32	18 18	1 15	2 43	0 12	23 18	0 4	19 59	1 42	14 12	0 42	T 29
W30	17 46	17 27	4 22	15 33	3 36	17 57	1 17	3 1	0 11	23 19	0 4	19 59	1 42	14 11	0 42	W30
T 31	17s29	12n31	4n55	15s48	3n37	17s37	1s18	3n19	0s10	23n19	0n 4	19n59	1s41	14s10	0s42	T 31

Julian Day Number = 2452275.5, Delta T = 64.30 sec  
 Ecliptic obliquity = 23°26'21", Nutation = - 0°00'16", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°46'06", Lahiri = 23°53'06"

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

FEBRUARY 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 44 7	11°56'24	24°36	2°R39	16°8	9°Y29	6°R57	8°R 5	24°5	8°35	17°0	26°R 9	24°43	18°9	5°18	F 1
S 2	8 48 3	12°57'16	9°21	1°40	17°23	10°12	6°52	8°II 4	24°9	8°38	17°2	26°II 4	24°40	18°16	5°24	S 2
S 3	8 52 0	13°58'08	23°46	0°50	18°39	10°55	6°47	8°3	24°12	8°40	17°3	26°0	24°37	18°23	5°29	S 3
M 4	8 55 56	14°58'59	7°48	0°7	19°54	11°39	6°42	8°3	24°16	8°42	17°5	25°58	24°33	18°30	5°35	M 4
T 5	8 59 53	15°59'49	21°27	29°32	21°9	12°22	6°37	8°2	24°19	8°45	17°6	25°D58	24°30	18°36	5°40	T 5
W 6	9 3 49	17°0'39	4°45	29°7	22°25	13°5	6°32	8°2	24°22	8°47	17°7	25°59	24°27	18°43	5°46	W 6
T 7	9 7 46	18°1'27	17°44	28°49	23°40	13°49	6°28	8°2	24°26	8°49	17°9	26°0	24°24	18°50	5°51	T 7
F 8	9 11 42	19°2'15	0°327	28°40	24°55	14°32	6°24	8°D 2	24°29	8°51	17°10	26°R 0	24°21	18°56	5°56	F 8
S 9	9 15 39	20°3'01	12°57	28°D38	26°10	15°15	6°19	8°2	24°33	8°54	17°11	25°58	24°18	19°3	6°1	S 9
S 10	9 19 36	21°3'47	25°17	28°44	27°26	15°58	6°15	8°2	24°36	8°56	17°13	25°54	24°14	19°10	6°6	S 10
M 11	9 23 32	22°4'31	7°29	28°56	28°41	16°42	6°12	8°2	24°40	8°58	17°14	25°48	24°11	19°17	6°12	M 11
T 12	9 27 29	23°5'14	19°34	29°15	29°56	17°25	6°8	8°3	24°43	9°0	17°15	25°38	24°8	19°23	6°17	T 12
W 13	9 31 25	24°5'55	1°33	29°39	1°11	18°8	6°5	8°3	24°47	9°3	17°16	25°27	24°5	19°30	6°22	W 13
T 14	9 35 22	25°6'35	13°28	0°9	2°26	18°51	6°2	8°4	24°50	9°5	17°18	25°15	24°2	19°37	6°26	T 14
F 15	9 39 18	26°7'14	25°21	0°44	3°41	19°34	5°59	8°5	24°54	9°7	17°19	25°3	23°58	19°44	6°31	F 15
S 16	9 43 15	27°7'51	7°12	1°23	4°57	20°17	5°56	8°5	24°57	9°9	17°20	24°52	23°55	19°50	6°36	S 16
S 17	9 47 11	28°8'26	19°4	2°6	6°12	21°0	5°53	8°6	25°1	9°11	17°21	24°43	23°52	19°57	6°41	S 17
M 18	9 51 8	29°9'00	1°1	2°54	7°27	21°43	5°51	8°7	25°4	9°13	17°22	24°36	23°49	20°4	6°46	M 18
T 19	9 55 4	0°9'32	13°6	3°45	8°42	22°26	5°49	8°9	25°7	9°16	17°23	24°32	23°46	20°10	6°50	T 19
W 20	9 59 1	1°10'02	25°24	4°39	9°57	23°9	5°47	8°10	25°11	9°18	17°24	24°31	23°43	20°17	6°55	W 20
T 21	10 2 58	2°10'30	8°II 0	5°36	11°12	23°52	5°45	8°11	25°14	9°20	17°25	24°D31	23°39	20°24	6°59	T 21
F 22	10 6 54	3°10'56	20°58	6°36	12°27	24°34	5°43	8°13	25°18	9°22	17°26	24°R31	23°36	20°31	7°4	F 22
S 23	10 10 51	4°11'21	4°22	7°38	13°42	25°17	5°42	8°15	25°21	9°24	17°27	24°31	23°33	20°37	7°8	S 23
S 24	10 14 47	5°11'44	18°17	8°43	14°57	26°0	5°41	8°16	25°25	9°26	17°27	24°29	23°30	20°44	7°12	S 24
M 25	10 18 44	6°12'04	2°40	9°50	16°12	26°43	5°40	8°18	25°28	9°28	17°28	24°24	23°27	20°51	7°17	M 25
T 26	10 22 40	7°12'23	17°31	11°0	17°27	27°25	5°39	8°20	25°32	9°30	17°29	24°17	23°24	20°57	7°21	T 26
W 27	10 26 37	8°12'40	2°41	12°11	18°42	28°8	5°38	8°22	25°35	9°33	17°30	24°7	23°20	21°4	7°25	W 27
T 28	10 30 33	9°12'55	18°1	13°24	19°56	28°Y51	5°38	8°II 24	25°38	9°35	17°31	23°II 56	23°II 17	21°II 11	7°29	T 28

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	
F 1	17s13	6n51	5n 8	16s 4	3n35	17s15	1s19	3n37	0s 9	23n20	0n 4	19n59	1s41	14s 9	0s42	F 1
S 2	16 56	0 54	5 0	16 20	3 32	16 53	1 20	3 55	0 8	23 20	0 4	20 0	1 41	14 8	0 42	S 2
S 3	16 38	5s 0	4 33	16 36	3 27	16 31	1 21	4 13	0 7	23 21	0 5	20 0	1 41	14 7	0 42	S 3
M 4	16 20	10 29	3 50	16 52	3 20	16 8	1 22	4 31	0 6	23 21	0 5	20 0	1 40	14 5	0 42	M 4
T 5	16 2	15 19	2 55	17 7	3 12	15 45	1 22	4 49	0 5	23 21	0 5	20 0	1 40	14 4	0 42	T 5
W 6	15 44	19 15	1 52	17 22	3 2	15 21	1 23	5 6	0 4	23 22	0 5	20 0	1 40	14 3	0 42	W 6
T 7	15 26	22 8	0 44	17 35	2 52	14 57	1 24	5 24	0 3	23 22	0 5	20 1	1 40	14 2	0 42	T 7
F 8	15 7	23 50	0s24	17 48	2 41	14 33	1 25	5 42	0 2	23 22	0 5	20 1	1 39	14 1	0 42	F 8
S 9	14 48	24 18	1 30	17 59	2 30	14 8	1 25	5 59	0 1	23 23	0 5	20 1	1 39	14 0	0 42	S 9
S 10	14 29	23 32	2 30	18 9	2 18	13 42	1 26	6 17	0 0	23 23	0 5	20 1	1 39	13 59	0 42	S 10
M 11	14 9	21 40	3 23	18 19	2 6	13 17	1 26	6 34	0n 0	23 23	0 6	20 2	1 39	13 57	0 42	M 11
T 12	13 49	18 50	4 6	18 27	1 54	12 51	1 27	6 51	0 1	23 24	0 6	20 2	1 38	13 56	0 42	T 12
W 13	13 29	15 14	4 38	18 33	1 42	12 24	1 27	7 9	0 2	23 24	0 6	20 2	1 38	13 55	0 42	W 13
T 14	13 9	11 4	4 57	18 39	1 30	11 58	1 27	7 26	0 3	23 24	0 6	20 3	1 38	13 54	0 42	T 14
F 15	12 49	6 29	5 3	18 43	1 18	11 31	1 27	7 43	0 4	23 24	0 6	20 3	1 38	13 53	0 42	F 15
S 16	12 28	1 41	4 56	18 46	1 7	11 3	1 27	8 0	0 5	23 25	0 6	20 3	1 37	13 52	0 42	S 16
S 17	12 7	3n12	4 36	18 48	0 55	10 36	1 28	8 17	0 6	23 25	0 6	20 4	1 37	13 50	0 42	S 17
M 18	11 46	8 0	4 5	18 48	0 44	10 8	1 28	8 34	0 6	23 25	0 6	20 4	1 37	13 49	0 42	M 18
T 19	11 25	12 34	3 21	18 47	0 33	9 40	1 27	8 51	0 7	23 25	0 7	20 5	1 37	13 48	0 42	T 19
W 20	11 4	16 43	2 28	18 45	0 22	9 11	1 27	9 7	0 8	23 25	0 7	20 5	1 36	13 47	0 42	W 20
T 21	10 42	20 13	1 27	18 41	0 12	8 43	1 27	9 24	0 9	23 26	0 7	20 6	1 36	13 46	0 42	T 21
F 22	10 20	22 49	0 19	18 36	0 2	8 14	1 27	9 40	0 10	23 26	0 7	20 6	1 36	13 45	0 42	F 22
S 23	9 58	24 14	0n52	18 30	0s 8	7 45	1 27	9 57	0 10	23 26	0 7	20 7	1 35	13 43	0 42	S 23
S 24	9 36	24 13	2 2	18 22	0 18	7 15	1 26	10 13	0 11	23 26	0 7	20 7	1 35	13 42	0 42	S 24
M 25	9 14	22 36	3 7	18 13	0 27	6 46	1 26	10 29	0 12	23 26	0 7	20 8	1 35	13 41	0 42	M 25
T 26	8 52	19 25	4 2	18 3	0 36	6 16	1 25	10 45	0 13	23 26	0 7	20 8	1 35	13 40	0 42	T 26
W 27	8 29	14 52	4 40	17 51	0 44	5 46	1 25	11 1	0 14	23 27	0 7	20 9	1 34	13 39	0 42	W 27
T 28	8s 7	9n20	4n59	17s38	0s53	5s16	1s24	11n17	0n14	23n27	0n 7	20n 9	1s34	13s38	0s42	T 28

Julian Day Number = 2452306.5, Delta T = 64.32 sec

Ecliptic obliquity = 23°26'21", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°46'10", Lahiri = 23°53'10"

ASTRODIENST EPHEMERIS for the year 2002  
geocentric

MARCH 2002

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	10 34 30	10 <sup>h</sup> 13'09"	3 <sup>h</sup> 19'	14 <sup>h</sup> 39'	21 <sup>h</sup> 11'	29 <sup>h</sup> 33'	5 <sup>h</sup> R37	8 <sup>h</sup> 27'	25 <sup>h</sup> 42'	9 <sup>h</sup> 37'	17 <sup>h</sup> 31'	23 <sup>h</sup> R45	23 <sup>h</sup> 14'	21 <sup>h</sup> 18'	7 <sup>h</sup> 33'	F 1
S 2	10 38 27	11 <sup>h</sup> 13'20"	18 <sup>h</sup> 24'	15 <sup>h</sup> 56'	22 <sup>h</sup> 26'	0 <sup>h</sup> 16'	5 <sup>h</sup> D37	8 <sup>h</sup> 29'	25 <sup>h</sup> 45'	9 <sup>h</sup> 39'	17 <sup>h</sup> 32'	23 <sup>h</sup> 36'	23 <sup>h</sup> 11'	21 <sup>h</sup> 24'	7 <sup>h</sup> 37'	S 2
S 3	10 42 23	12 <sup>h</sup> 13'31"	3 <sup>h</sup> 11'	17 <sup>h</sup> 14'	23 <sup>h</sup> 41'	0 <sup>h</sup> 58'	5 <sup>h</sup> 38'	8 <sup>h</sup> 31'	25 <sup>h</sup> 49'	9 <sup>h</sup> 41'	17 <sup>h</sup> 32'	23 <sup>h</sup> 29'	23 <sup>h</sup> 8'	21 <sup>h</sup> 31'	7 <sup>h</sup> 40'	S 3
M 4	10 46 20	13 <sup>h</sup> 13'39"	17 <sup>h</sup> 23'	18 <sup>h</sup> 34'	24 <sup>h</sup> 56'	1 <sup>h</sup> 41'	5 <sup>h</sup> 38'	8 <sup>h</sup> 34'	25 <sup>h</sup> 52'	9 <sup>h</sup> 43'	17 <sup>h</sup> 33'	23 <sup>h</sup> 24'	23 <sup>h</sup> 4'	21 <sup>h</sup> 38'	7 <sup>h</sup> 44'	M 4
T 5	10 50 16	14 <sup>h</sup> 13'47"	1 <sup>h</sup> 11'	19 <sup>h</sup> 55'	26 <sup>h</sup> 11'	2 <sup>h</sup> 23'	5 <sup>h</sup> 39'	8 <sup>h</sup> 37'	25 <sup>h</sup> 55'	9 <sup>h</sup> 45'	17 <sup>h</sup> 34'	23 <sup>h</sup> 22'	23 <sup>h</sup> 1'	21 <sup>h</sup> 45'	7 <sup>h</sup> 48'	T 5
W 6	10 54 13	15 <sup>h</sup> 13'52"	14 <sup>h</sup> 31'	21 <sup>h</sup> 18'	27 <sup>h</sup> 25'	3 <sup>h</sup> 6'	5 <sup>h</sup> 39'	8 <sup>h</sup> 39'	25 <sup>h</sup> 59'	9 <sup>h</sup> 47'	17 <sup>h</sup> 34'	23 <sup>h</sup> D22	22 <sup>h</sup> 58'	21 <sup>h</sup> 51'	7 <sup>h</sup> 52'	W 6
T 7	10 58 9	16 <sup>h</sup> 13'57"	27 <sup>h</sup> 27'	22 <sup>h</sup> 42'	28 <sup>h</sup> 40'	3 <sup>h</sup> 48'	5 <sup>h</sup> 40'	8 <sup>h</sup> 42'	26 <sup>h</sup> 2'	9 <sup>h</sup> 48'	17 <sup>h</sup> 35'	23 <sup>h</sup> R22	22 <sup>h</sup> 55'	21 <sup>h</sup> 58'	7 <sup>h</sup> 55'	T 7
F 8	11 2 6	17 <sup>h</sup> 13'59"	10 <sup>h</sup> 34'	24 <sup>h</sup> 7'	29 <sup>h</sup> 55'	4 <sup>h</sup> 30'	5 <sup>h</sup> 41'	8 <sup>h</sup> 45'	26 <sup>h</sup> 5'	9 <sup>h</sup> 50'	17 <sup>h</sup> 35'	23 <sup>h</sup> 21'	22 <sup>h</sup> 52'	22 <sup>h</sup> 5'	7 <sup>h</sup> 58'	F 8
S 9	11 6 2	18 <sup>h</sup> 14'00"	22 <sup>h</sup> 25'	25 <sup>h</sup> 34'	1 <sup>h</sup> Y 9	5 <sup>h</sup> 13'	5 <sup>h</sup> 43'	8 <sup>h</sup> 48'	26 <sup>h</sup> 9'	9 <sup>h</sup> 52'	17 <sup>h</sup> 35'	23 <sup>h</sup> 18'	22 <sup>h</sup> 49'	22 <sup>h</sup> 11'	8 <sup>h</sup> 2'	S 9
S 10	11 9 59	19 <sup>h</sup> 14'00"	4 <sup>h</sup> 34'	27 <sup>h</sup> 2'	2 <sup>h</sup> 24'	5 <sup>h</sup> 55'	5 <sup>h</sup> 44'	8 <sup>h</sup> 52'	26 <sup>h</sup> 12'	9 <sup>h</sup> 54'	17 <sup>h</sup> 36'	23 <sup>h</sup> 13'	22 <sup>h</sup> 45'	22 <sup>h</sup> 18'	8 <sup>h</sup> 5'	S 10
M 11	11 13 56	20 <sup>h</sup> 13'57"	16 <sup>h</sup> 36'	28 <sup>h</sup> 31'	3 <sup>h</sup> 39'	6 <sup>h</sup> 37'	5 <sup>h</sup> 46'	8 <sup>h</sup> 55'	26 <sup>h</sup> 15'	9 <sup>h</sup> 56'	17 <sup>h</sup> 36'	23 <sup>h</sup> 4'	22 <sup>h</sup> 42'	22 <sup>h</sup> 25'	8 <sup>h</sup> 8'	M 11
T 12	11 17 52	21 <sup>h</sup> 13'53"	28 <sup>h</sup> 32'	0 <sup>h</sup> Y 2	4 <sup>h</sup> 53'	7 <sup>h</sup> 19'	5 <sup>h</sup> 48'	8 <sup>h</sup> 58'	26 <sup>h</sup> 18'	9 <sup>h</sup> 58'	17 <sup>h</sup> 36'	22 <sup>h</sup> 53'	22 <sup>h</sup> 39'	22 <sup>h</sup> 32'	8 <sup>h</sup> 12'	T 12
W 13	11 21 49	22 <sup>h</sup> 13'47"	10 <sup>h</sup> 26'	1 <sup>h</sup> 33'	6 <sup>h</sup> 8'	8 <sup>h</sup> 1'	5 <sup>h</sup> 50'	9 <sup>h</sup> 2'	26 <sup>h</sup> 21'	10 <sup>h</sup> 0'	17 <sup>h</sup> 37'	22 <sup>h</sup> 39'	22 <sup>h</sup> 36'	22 <sup>h</sup> 38'	8 <sup>h</sup> 15'	W 13
T 14	11 25 45	23 <sup>h</sup> 13'39"	22 <sup>h</sup> 18'	3 <sup>h</sup> 6'	7 <sup>h</sup> 22'	8 <sup>h</sup> 44'	5 <sup>h</sup> 52'	9 <sup>h</sup> 5'	26 <sup>h</sup> 25'	10 <sup>h</sup> 1'	17 <sup>h</sup> 37'	22 <sup>h</sup> 24'	22 <sup>h</sup> 33'	22 <sup>h</sup> 45'	8 <sup>h</sup> 18'	T 14
F 15	11 29 42	24 <sup>h</sup> 13'29"	4 <sup>h</sup> Y 10	4 <sup>h</sup> 41'	8 <sup>h</sup> 37'	9 <sup>h</sup> 26'	5 <sup>h</sup> 55'	9 <sup>h</sup> 9'	26 <sup>h</sup> 28'	10 <sup>h</sup> 3'	17 <sup>h</sup> 37'	22 <sup>h</sup> 9'	22 <sup>h</sup> 29'	22 <sup>h</sup> 52'	8 <sup>h</sup> 20'	F 15
S 16	11 33 38	25 <sup>h</sup> 13'17"	16 <sup>h</sup> 4'	6 <sup>h</sup> 16'	9 <sup>h</sup> 52'	10 <sup>h</sup> 8'	5 <sup>h</sup> 58'	9 <sup>h</sup> 13'	26 <sup>h</sup> 31'	10 <sup>h</sup> 5'	17 <sup>h</sup> 37'	21 <sup>h</sup> 56'	22 <sup>h</sup> 26'	22 <sup>h</sup> 58'	8 <sup>h</sup> 23'	S 16
S 17	11 37 35	26 <sup>h</sup> 13'03"	28 <sup>h</sup> 0'	7 <sup>h</sup> 53'	11 <sup>h</sup> 6'	10 <sup>h</sup> 50'	6 <sup>h</sup> 0'	9 <sup>h</sup> 17'	26 <sup>h</sup> 34'	10 <sup>h</sup> 7'	17 <sup>h</sup> 38'	21 <sup>h</sup> 44'	22 <sup>h</sup> 23'	23 <sup>h</sup> 5'	8 <sup>h</sup> 26'	S 17
M 18	11 41 31	27 <sup>h</sup> 12'46"	10 <sup>h</sup> 31'	9 <sup>h</sup> 31'	12 <sup>h</sup> 20'	11 <sup>h</sup> 32'	6 <sup>h</sup> 4'	9 <sup>h</sup> 21'	26 <sup>h</sup> 37'	10 <sup>h</sup> 8'	17 <sup>h</sup> 38'	21 <sup>h</sup> 36'	22 <sup>h</sup> 20'	23 <sup>h</sup> 12'	8 <sup>h</sup> 29'	M 18
T 19	11 45 28	28 <sup>h</sup> 12'28"	22 <sup>h</sup> 9'	11 <sup>h</sup> 10'	13 <sup>h</sup> 35'	12 <sup>h</sup> 14'	6 <sup>h</sup> 7'	9 <sup>h</sup> 25'	26 <sup>h</sup> 40'	10 <sup>h</sup> 10'	17 <sup>h</sup> 38'	21 <sup>h</sup> 30'	22 <sup>h</sup> 17'	23 <sup>h</sup> 19'	8 <sup>h</sup> 31'	T 19
W 20	11 49 25	29 <sup>h</sup> 12'08"	4 <sup>h</sup> Y 29	12 <sup>h</sup> 50'	14 <sup>h</sup> 49'	12 <sup>h</sup> 56'	6 <sup>h</sup> 10'	9 <sup>h</sup> 29'	26 <sup>h</sup> 43'	10 <sup>h</sup> 12'	17 <sup>h</sup> 38'	21 <sup>h</sup> 27'	22 <sup>h</sup> 14'	23 <sup>h</sup> 25'	8 <sup>h</sup> 34'	W 20
T 21	11 53 21	0 <sup>h</sup> Y 11'45"	17 <sup>h</sup> 3'	14 <sup>h</sup> 32'	16 <sup>h</sup> 4'	13 <sup>h</sup> 37'	6 <sup>h</sup> 14'	9 <sup>h</sup> 33'	26 <sup>h</sup> 46'	10 <sup>h</sup> 13'	17 <sup>h</sup> R38	21 <sup>h</sup> D26	22 <sup>h</sup> 10'	23 <sup>h</sup> 32'	8 <sup>h</sup> 36'	T 21
F 22	11 57 18	1 <sup>h</sup> 11'20"	29 <sup>h</sup> 57'	16 <sup>h</sup> 15'	17 <sup>h</sup> 18'	14 <sup>h</sup> 19'	6 <sup>h</sup> 18'	9 <sup>h</sup> 38'	26 <sup>h</sup> 49'	10 <sup>h</sup> 15'	17 <sup>h</sup> 38'	21 <sup>h</sup> R26	22 <sup>h</sup> 7'	23 <sup>h</sup> 39'	8 <sup>h</sup> 39'	F 22
S 23	12 1 14	2 <sup>h</sup> 10'53"	13 <sup>h</sup> 34'	17 <sup>h</sup> 59'	18 <sup>h</sup> 32'	15 <sup>h</sup> 1'	6 <sup>h</sup> 22'	9 <sup>h</sup> 42'	26 <sup>h</sup> 52'	10 <sup>h</sup> 17'	17 <sup>h</sup> 38'	21 <sup>h</sup> 26'	22 <sup>h</sup> 4'	23 <sup>h</sup> 46'	8 <sup>h</sup> 41'	S 23
S 24	12 5 11	3 <sup>h</sup> 10'23"	26 <sup>h</sup> 57'	19 <sup>h</sup> 44'	19 <sup>h</sup> 47'	15 <sup>h</sup> 43'	6 <sup>h</sup> 26'	9 <sup>h</sup> 46'	26 <sup>h</sup> 55'	10 <sup>h</sup> 18'	17 <sup>h</sup> 38'	21 <sup>h</sup> 24'	22 <sup>h</sup> 1'	23 <sup>h</sup> 52'	8 <sup>h</sup> 43'	S 24
M 25	12 9 7	4 <sup>h</sup> 9'51"	11 <sup>h</sup> 10'	21 <sup>h</sup> 31'	21 <sup>h</sup> 1'	16 <sup>h</sup> 25'	6 <sup>h</sup> 30'	9 <sup>h</sup> 51'	26 <sup>h</sup> 58'	10 <sup>h</sup> 20'	17 <sup>h</sup> 37'	21 <sup>h</sup> 20'	21 <sup>h</sup> 58'	23 <sup>h</sup> 59'	8 <sup>h</sup> 45'	M 25
T 26	12 13 4	5 <sup>h</sup> 9'17"	25 <sup>h</sup> 49'	23 <sup>h</sup> 19'	22 <sup>h</sup> 15'	17 <sup>h</sup> 6'	6 <sup>h</sup> 34'	9 <sup>h</sup> 56'	27 <sup>h</sup> 1'	10 <sup>h</sup> 21'	17 <sup>h</sup> 37'	21 <sup>h</sup> 13'	21 <sup>h</sup> 55'	24 <sup>h</sup> 6'	8 <sup>h</sup> 47'	T 26
W 27	12 17 0	6 <sup>h</sup> 8'41"	10 <sup>h</sup> 51'	25 <sup>h</sup> 8'	23 <sup>h</sup> 29'	17 <sup>h</sup> 48'	6 <sup>h</sup> 39'	10 <sup>h</sup> 0'	27 <sup>h</sup> 4'	10 <sup>h</sup> 23'	17 <sup>h</sup> 37'	21 <sup>h</sup> 4'	21 <sup>h</sup> 51'	24 <sup>h</sup> 12'	8 <sup>h</sup> 49'	W 27
T 28	12 20 57	7 <sup>h</sup> 8'02"	26 <sup>h</sup> 8'	26 <sup>h</sup> 59'	24 <sup>h</sup> 43'	18 <sup>h</sup> 29'	6 <sup>h</sup> 44'	10 <sup>h</sup> 5'	27 <sup>h</sup> 7'	10 <sup>h</sup> 24'	17 <sup>h</sup> 37'	20 <sup>h</sup> 54'	21 <sup>h</sup> 48'	24 <sup>h</sup> 19'	8 <sup>h</sup> 51'	T 28
F 29	12 24 54	8 <sup>h</sup> 7'21"	11 <sup>h</sup> 27'	28 <sup>h</sup> 51'	25 <sup>h</sup> 57'	19 <sup>h</sup> 11'	6 <sup>h</sup> 49'	10 <sup>h</sup> 10'	27 <sup>h</sup> 10'	10 <sup>h</sup> 26'	17 <sup>h</sup> 37'	20 <sup>h</sup> 43'	21 <sup>h</sup> 45'	24 <sup>h</sup> 26'	8 <sup>h</sup> 53'	F 29
S 30	12 28 50	9 <sup>h</sup> 6'38"	26 <sup>h</sup> 39'	0 <sup>h</sup> Y 44	27 <sup>h</sup> 11'	19 <sup>h</sup> 52'	6 <sup>h</sup> 54'	10 <sup>h</sup> 15'	27 <sup>h</sup> 13'	10 <sup>h</sup> 27'	17 <sup>h</sup> 36'	20 <sup>h</sup> 34'	21 <sup>h</sup> 42'	24 <sup>h</sup> 33'	8 <sup>h</sup> 54'	S 30
S 31	12 32 47	10 <sup>h</sup> Y 5'53"	11 <sup>h</sup> 32'	2 <sup>h</sup> Y 38	28 <sup>h</sup> Y 25	20 <sup>h</sup> 34'	6 <sup>h</sup> 59'	10 <sup>h</sup> 20'	27 <sup>h</sup> 15'	10 <sup>h</sup> 28'	17 <sup>h</sup> 36'	20 <sup>h</sup> 26'	21 <sup>h</sup> 39'	24 <sup>h</sup> 39'	8 <sup>h</sup> 56'	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
F 1	7s44	3n13	4n57	17s24	1s 0	4s46	1s23	11n33	0n15	23n27	0n 8	20n10	1s34	13s37	0s42	17s45	0n 6	12s59	9n55	23n18	23n16	8s11	17s14	6n 0	
S 2	7 21	3s 0	4 34	17 8	1 8	4 16	1 22	11 49	0 16	23 27	0 8	20 11	1 34	13 36	0 42	17 45	0 6	12 58	9 55	23 17	23 16	8 8	17 13	6 0	
S 3	6 58	8 54	3 52	16 52	1 15	3 45	1 22	12 4	0 17	23 27	0 8	20 11	1 33	13 34	0 42	17 44	0 6	12 58	9 56	23 17	23 16	8 5	17 13	6 1	
M 4	6 35	14 11	2 58	16 33	1 22	3 15	1 21	12 20	0 17	23 27	0 8	20 12	1 33	13 33	0 42	17 44	0 6	12 58	9 56	23 17	23 15	8 3	17 12	6 2	
T 5	6 12	18 32	1 54	16 14	1 28	2 44	1 20	12 35	0 18	23 27	0 8	20 12	1 33	13 32	0 42	17 43	0 6	12 58	9 56	23 16	23 15	8 0	17 11	6 2	
W 6	5 49	21 46	0 47	15 53	1 34	2 14	1 19	12 50	0 19	23 27	0 8	20 13	1 33	13 31	0 42	17 43	0 6	12 58	9 56	23 16	23 15	7 57	17 10	6 3	
T 7	5 26	23 47	0s22	15 31	1 40	1 43	1 18	13 5	0 19	23 27	0 8	20 14	1 33	13 30	0 42	17 42	0 6	12 57	9 57	23 16	23 15	7 55	17 9	6 3	
F 8	5 3	24 30	1 27	15 8	1 45	1 12	1 17	13 20	0 20	23 27	0 8	20 15	1 32	13 29	0 42	17 42	0 6	12 57	9 57	23 16	23 15	7 52	17 9	6 4	
S 9	4 39	23 59	2 27	14 43	1 50	0 41	1 15	13 35	0 21	23 27	0 8	20 15	1 32	13 28	0 42	17 41	0 6	12 57	9 57	23 16	23 15	7 49	17 8	6 4	
S 10	4 16	22 20	3 19	14 17	1 54	0 11	1 14	13 50	0 22	23 27	0 8	20 16	1 32	13 27	0 42	17 41	0 6	12 57	9 57	23 16	23 14	7 47	17 7	6 5	
M 11	3 52	19 42	4 2	13 50	1 58	0n20	1 13	14 5	0 22	23 27	0 9	20 17	1 32	13 26	0 42	17 40	0 6	12 57	9 58	23 15	23 14	7 44	17 6	6 6	
T 12	3 29	16 15	4 33	13 22	2 2	0 51	1 11	14 19	0 23	23 27	0 9	20 17	1 31	13 24	0 42	17 40	0 6	12 56	9 58	23 15	23 14	7 41	17 6	6 6	
W 13	3 5	12 10	4 52	12 52	2 5	1 22	1 10	14 33	0 24	23 27	0 9	20 18	1 31	13 23	0 42	17 39	0 6	12 56	9 58	23 14	23 14	7 39	17 5	6 7	
T 14	2 41	7 38	4 59	12 21	2 8	1 53	1 8	14 48	0 24	23 27	0 9	20 19	1 31	13 22	0 42	17 39	0 6	12 56	9 58	23 13	23 14	7 36	17 4	6 7	
F 15	2 18	2 49	4 53	11 49	2 11	2 24	1 7	15 2	0 25	23 27	0 9	20 20	1 31	13 21	0 42	17 38	0 6	12 56	9 58	23 12	23 14	7 33	17 3	6 8	
S 16	1 54	2n 7	4 33	11 16	2 13	2 54	1 5	15 16	0 26	23 27	0 9	20 21	1 30	13 20	0 42	17 38	0 6	12 56	9 59	23 12	23 13	7 31	17 3	6 9	
S 17	1 30	6 59	4 2	10 41	2 14	3 25	1 4	15 29	0 26	23 27	0 9	20 21	1 30	13 19	0 42	17 37	0 6	12 55	9 59	23 11	23 13	7 28	17 2	6 9	
M 18	1 7	11 39	3 20	10 6	2 15	3 56	1 2	15 43	0 27	23 27	0 9	20 22	1 30	13 18	0 42	17 37	0 6	12 55	9 59	23 10	23 13	7 25	17 1	6 10	
T 19	0 43	15 55	2 28	9 29	2 16	4 26	1 0	15 57	0 28	23 27	0 9	20 23	1 30	13 17	0 42	17 36	0 6	12 55	9 59	23 10	23 13	7 23	17 0	6 10	
W 20	0 19	19 35	1 28	8 50	2 16	4 57	0 58	16 10	0 28	23 27	0 9	20 24	1 29	13 16	0 42	17 36	0 6	12 55	10 0	23 10	23 13	7 20	16 59	6 11	
T 21	0n 5	22 25	0 23	8 11	2 16	5 27	0 56	16 23	0 29	23 27	0 9	20 25	1 29	13 15	0 42	17 36	0 6	12 54	10 0	23 10	23 12	7 17	16 59	6 12	
F 22	0 28	24 11	0n45	7 30	2 15	5 57	0 54	16 36	0 29	23 27	0 10	20 26	1 29	13 14	0 42	17 35	0 5	12 54	10 0	23 10	23 12	7 15	16 58	6 12	
S 23	0 52	24 39	1 53	6 49	2 14	6 27	0 53	16 49	0 30	23 27	0 10	20 26	1 29	13 13	0 42	17 35	0 5	12 54	10 0	23 10	23 12	7 12	16 57	6 13	
S 24	1 16	23 39	2 56	6 6	2 13	6 57	0 50	17 2	0 31	23 27	0 10	20 27	1 29	13 12	0 42	17 34	0 5	12 54	10 1	23 10	23 12	7 9	16 56	6 14	
M 25	1 39	21 7	3 51	5 22	2 11	7 27	0 48	17 15	0 31	23 27	0 10	20 28	1 28	13 11	0 42	17 34	0 5	12 53	10 1	23 9	23 12	7 7	16 56	6 14	
T 26	2 3	17 11	4 32	4 37	2 8	7 57	0 46	17 27	0 32	23 26	0 10	20 29	1 28	13 10	0 42	17 34	0 5	12 53	10 1	23 9	23 12	7 4	16 55	6 15	
W 27	2 26	12 4	4 56	3 51	2 5	8 26	0 44	17 39	0 32	23 26	0 10	20 30	1 28	13 9	0 42	17 33	0 5	12 53	10 1	23 8	23 11	7 1	16 54	6 15	
T 28	2 50	6 8	5 0	3 4	2 1	8 55	0 42	17 52	0 33	23 26	0 10	20 31	1 28	13 8	0 42	17 33	0 5	12 53	10 2	23 8	23 11	6 58	16 53	6 16	
F 29	3 13	0s12	4 42	2 15	1 57	9 25	0 40	18 4	0 34	23 26	0 10	20 32	1 28	13 7	0 42	17 32	0 5	12 52	10 2	23 7	23 11	6 56	16 53	6 17	
S 30	3 37	6 29	4 4	1 26	1 53	9 53	0 38	18 15	0 34	23 26	0 10	20 33	1 27	13 6	0 42	17 32	0 5	12 52	10 2	23 6	23 11	6 53	16 52	6 17	
S 31	4n 0	12s17	3n10	0s36	1s48	10n22	0s35	18n27	0n35	23n26	0n10	20n34	1s27	13s 5	0s42	17s32	0n 5	12s52	10n 2	23n 6	23n11	6s50	16s51	6n18	

ASTRODIENST EPHEMERIS for the year 2002  
geocentric

APRIL 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 36 43	11° 5'07"	25° 59'59"	4° 34'34"	29° 39'39"	21° 15'15"	7° 5'5"	10° 25'25"	27° 18'18"	10° 30'30"	17° 36'36"	20° 22'22"	21° 35'35"	24° 46'46"	8° 57'57"	M 1
T 2	12 40 40	12° 4'18"	9° 58'58"	6° 32'32"	0° 53'53"	21° 57'57"	7° 11'11"	10° 31'31"	27° 21'21"	10° 31'31"	17° 35'35"	20° 19'19"	21° 32'32"	24° 53'53"	8° 59'59"	T 2
W 3	12 44 36	13° 3'28"	23° 27'27"	8° 30'30"	2° 7'7"	22° 38'38"	7° 16'16"	10° 36'36"	27° 24'24"	10° 32'32"	17° 35'35"	20° 19'19"	21° 29'29"	25° 0'0"	9° 0'0"	W 3
T 4	12 48 33	14° 2'36"	6° 32'29"	10° 30'30"	3° 21'21"	23° 20'20"	7° 22'22"	10° 41'41"	27° 26'26"	10° 34'34"	17° 34'34"	20° 20'20"	21° 26'26"	25° 6'6"	9° 1'1"	T 4
F 5	12 52 29	15° 1'43"	19° 8'8"	12° 31'31"	4° 35'24"	24° 1'1"	7° 28'28"	10° 47'28"	27° 29'29"	10° 35'35"	17° 34'34"	20° 20'20"	21° 23'23"	25° 13'13"	9° 2'2"	F 5
S 6	12 56 26	16° 0'47"	1° 28'28"	14° 33'33"	5° 49'49"	24° 42'42"	7° 35'35"	10° 52'52"	27° 31'31"	10° 36'36"	17° 33'33"	20° 18'18"	21° 20'20"	25° 20'20"	9° 3'3"	S 6
S 7	13 0 23	16° 59'50"	13° 35'35"	16° 36'36"	7° 3'3"	25° 23'23"	7° 41'41"	10° 58'58"	27° 34'34"	10° 37'37"	17° 33'33"	20° 15'15"	21° 16'16"	25° 26'26"	9° 4'4"	S 7
M 8	13 4 19	17° 58'51"	25° 33'33"	18° 40'40"	8° 17'17"	26° 4'4"	7° 48'48"	11° 3'3"	27° 36'36"	10° 38'38"	17° 32'32"	20° 9'9"	21° 13'13"	25° 33'33"	9° 5'5"	M 8
T 9	13 8 16	18° 57'50"	7° 36'36"	20° 44'44"	9° 30'30"	26° 46'46"	7° 54'54"	11° 9'9"	27° 39'39"	10° 39'39"	17° 32'32"	20° 1'1"	21° 10'10"	25° 40'40"	9° 6'6"	T 9
W 10	13 12 12	19° 56'48"	19° 17'17"	22° 50'50"	10° 44'44"	27° 27'27"	8° 1'1"	11° 15'15"	27° 41'41"	10° 41'41"	17° 31'31"	19° 50'50"	21° 7'7"	25° 47'47"	9° 7'7"	W 10
T 11	13 16 9	20° 55'43"	1° 9'9"	24° 55'55"	11° 58'58"	28° 8'8"	8° 8'8"	11° 21'21"	27° 44'44"	10° 42'42"	17° 30'30"	19° 39'39"	21° 4'4"	25° 53'53"	9° 7'7"	T 11
F 12	13 20 5	21° 54'36"	13° 3'3"	27° 1'1"	13° 11'11"	28° 49'49"	8° 15'15"	11° 27'27"	27° 46'46"	10° 43'43"	17° 30'30"	19° 28'28"	21° 1'1"	26° 0'0"	9° 8'8"	F 12
S 13	13 24 2	22° 53'28"	25° 2'2"	29° 7'7"	14° 25'25"	29° 30'30"	8° 23'23"	11° 33'33"	27° 48'48"	10° 44'44"	17° 29'29"	19° 17'17"	20° 57'57"	26° 7'7"	9° 8'8"	S 13
S 14	13 27 58	23° 52'17"	7° 5'5"	1° 12'12"	15° 39'39"	0° 11'11"	8° 30'30"	11° 39'39"	27° 51'51"	10° 45'45"	17° 28'28"	19° 8'8"	20° 54'54"	26° 13'13"	9° 8'8"	S 14
M 15	13 31 55	24° 51'05"	19° 16'16"	3° 17'17"	16° 52'52"	0° 52'52"	8° 38'38"	11° 45'45"	27° 53'53"	10° 46'46"	17° 27'27"	19° 2'2"	20° 51'51"	26° 20'20"	9° 9'9"	M 15
T 16	13 35 51	25° 49'50"	1° 12'12"	5° 20'20"	18° 6'6"	1° 33'33"	8° 45'45"	11° 51'51"	27° 55'55"	10° 46'46"	17° 26'26"	18° 58'58"	20° 48'48"	26° 27'27"	9° 9'9"	T 16
W 17	13 39 48	26° 48'34"	14° 4'4"	7° 23'23"	19° 19'19"	2° 14'14"	8° 53'53"	11° 57'57"	27° 57'57"	10° 47'47"	17° 26'26"	18° 58'58"	20° 45'45"	26° 34'34"	9° 9'9"	W 17
T 18	13 43 45	27° 47'15"	26° 47'47"	9° 23'23"	20° 33'33"	2° 55'55"	9° 1'1"	12° 4'4"	28° 0'0"	10° 48'48"	17° 25'25"	18° 56'56"	20° 41'41"	26° 40'40"	9° 9'9"	T 18
F 19	13 47 41	28° 45'54"	9° 23'23"	11° 22'22"	21° 46'46"	3° 35'35"	9° 9'9"	12° 10'10"	28° 2'2"	10° 49'49"	17° 24'24"	18° 57'57"	20° 38'38"	26° 47'47"	9° 9'9"	F 19
S 20	13 51 38	29° 44'31"	23° 2'2"	13° 19'19"	22° 59'59"	4° 16'16"	9° 17'17"	12° 16'16"	28° 4'4"	10° 50'50"	17° 23'23"	18° 58'58"	20° 35'35"	26° 54'54"	9° 9'9"	S 20
S 21	13 55 34	0° 43'06"	6° 12'12"	15° 12'12"	24° 13'13"	4° 57'57"	9° 26'26"	12° 23'23"	28° 6'6"	10° 51'51"	17° 22'22"	18° 58'58"	20° 32'32"	27° 1'1"	9° 8'8"	S 21
M 22	13 59 31	1° 41'38"	20° 42'42"	17° 3'3"	25° 26'26"	5° 38'38"	9° 34'34"	12° 29'29"	28° 8'8"	10° 51'51"	17° 21'21"	18° 57'57"	20° 29'29"	27° 7'7"	9° 8'8"	M 22
T 23	14 3 27	2° 40'08"	5° 12'12"	18° 51'51"	26° 39'39"	6° 18'18"	9° 43'43"	12° 36'36"	28° 10'10"	10° 52'52"	17° 20'20"	18° 53'53"	20° 26'26"	27° 14'14"	9° 8'8"	T 23
W 24	14 7 24	3° 38'36"	19° 49'49"	20° 35'35"	27° 52'52"	6° 59'59"	9° 52'52"	12° 43'43"	28° 12'12"	10° 53'53"	17° 19'19"	18° 48'48"	20° 22'22"	27° 21'21"	9° 7'7"	W 24
T 25	14 11 20	4° 37'02"	4° 47'47"	22° 15'15"	29° 5'5"	7° 39'39"	10° 0'0"	12° 49'49"	28° 13'13"	10° 53'53"	17° 18'18"	18° 42'42"	20° 19'19"	27° 27'27"	9° 6'6"	T 25
F 26	14 15 17	5° 35'26"	19° 50'50"	23° 52'52"	0° 11'11"	8° 20'20"	10° 9'9"	12° 56'56"	28° 15'15"	10° 54'54"	17° 17'17"	18° 35'35"	20° 16'16"	27° 34'34"	9° 6'6"	F 26
S 27	14 19 14	6° 33'48"	4° 12'12"	25° 24'24"	1° 31'31"	9° 0'0"	10° 18'18"	13° 3'3"	28° 17'17"	10° 54'54"	17° 16'16"	18° 29'29"	20° 13'13"	27° 41'41"	9° 5'5"	S 27
S 28	14 23 10	7° 32'08"	19° 36'36"	26° 53'53"	2° 44'44"	9° 41'41"	10° 27'27"	13° 10'10"	28° 19'19"	10° 55'55"	17° 15'15"	18° 25'25"	20° 10'10"	27° 48'48"	9° 4'4"	S 28
M 29	14 27 7	8° 30'26"	4° 3'3"	28° 17'17"	3° 57'57"	10° 21'21"	10° 37'37"	13° 16'16"	28° 20'20"	10° 55'55"	17° 14'14"	18° 22'22"	20° 6'6"	27° 54'54"	9° 3'3"	M 29
T 30	14 31 3	9° 28'43"	18° 3'4"	29° 37'37"	5° 11'11"	11° 12'12"	10° 46'46"	13° 12'12"	28° 22'22"	10° 56'56"	17° 12'12"	18° 21'21"	20° 11'11"	28° 1'1"	9° 2'2"	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	4n23	17s13	2n 5	0n15	1s42	10n50	0s33	18n39	0n35	23n25	0n10	20n35	1s27	13s 4	0s42	17s31	0n 5	12s52	10n 2	23n 5	23n10	6s48	16s50	6n19			
T 2	4 46	21 2	0 55	1 7	1 36	11 18	0 31	18 50	0 36	23 25	0 10	20 36	1 27	13 3	0 42	17 31	0 5	12 51	10 3	23 5	23 10	6 45	16 50	6 19			
W 3	5 9	23 33	0s17	2 0	1 29	11 46	0 28	19 1	0 36	23 25	0 11	20 37	1 26	13 3	0 42	17 31	0 5	12 51	10 3	23 5	23 10	6 42	16 49	6 20			
T 4	5 32	24 42	1 25	2 54	1 22	12 14	0 26	19 12	0 37	23 25	0 11	20 38	1 26	13 2	0 42	17 30	0 5	12 51	10 3	23 5	23 10	6 39	16 48	6 21			
F 5	5 55	24 30	2 27	3 48	1 15	12 41	0 23	19 23	0 37	23 24	0 11	20 38	1 26	13 1	0 43	17 30	0 5	12 51	10 3	23 5	23 10	6 37	16 47	6 21			
S 6	6 18	23 5	3 21	4 43	1 7	13 8	0 21	19 33	0 38	23 24	0 11	20 39	1 26	13 0	0 43	17 30	0 5	12 50	10 4	23 5	23 9	6 34	16 47	6 22			
S 7	6 41	20 38	4 4	5 38	0 58	13 35	0 18	19 44	0 38	23 24	0 11	20 40	1 26	12 59	0 43	17 29	0 5	12 50	10 4	23 5	23 9	6 31	16 46	6 23			
M 8	7 3	17 20	4 36	6 34	0 49	14 1	0 16	19 54	0 39	23 24	0 11	20 41	1 26	12 58	0 43	17 29	0 5	12 50	10 4	23 4	23 9	6 29	16 45	6 23			
T 9	7 26	13 21	4 56	7 29	0 39	14 27	0 13	20 4	0 40	23 23	0 11	20 42	1 25	12 57	0 43	17 29	0 5	12 50	10 4	23 4	23 9	6 26	16 45	6 24			
W10	7 48	8 53	5 3	8 25	0 30	14 53	0 10	20 14	0 40	23 23	0 11	20 43	1 25	12 57	0 43	17 28	0 5	12 49	10 4	23 3	23 9	6 23	16 44	6 25			
T 11	8 10	4 5	4 57	9 21	0 19	15 18	0 8	20 24	0 41	23 23	0 11	20 44	1 25	12 56	0 43	17 28	0 5	12 49	10 5	23 2	23 8	6 20	16 43	6 25			
F 12	8 32	0n53	4 38	10 16	0 9	15 43	0 5	20 34	0 41	23 22	0 11	20 45	1 25	12 55	0 43	17 28	0 5	12 49	10 5	23 1	23 8	6 18	16 43	6 26			
S 13	8 54	5 51	4 7	11 11	0n 2	16 7	0 3	20 43	0 41	23 22	0 11	20 46	1 25	12 54	0 43	17 28	0 5	12 49	10 5	23 0	23 8	6 15	16 42	6 26			
S 14	9 16	10 39	3 25	12 6	0 13	16 31	0n 0	20 52	0 42	23 21	0 11	20 47	1 24	12 53	0 43	17 27	0 5	12 48	10 5	23 0	23 8	6 12	16 41	6 27			
M15	9 37	15 6	2 32	12 59	0 24	16 55	0 3	21 1	0 42	23 21	0 11	20 48	1 24	12 53	0 43	17 27	0 5	12 48	10 5	22 59	23 7	6 9	16 41	6 28			
T 16	9 59	18 59	1 32	13 51	0 35	17 18	0 5	21 10	0 43	23 21	0 12	20 49	1 24	12 52	0 43	17 27	0 5	12 48	10 5	22 59	23 7	6 7	16 40	6 28			
W17	10 20	22 3	0 26	14 42	0 46	17 41	0 8	21 19	0 43	23 20	0 12	20 50	1 24	12 51	0 43	17 27	0 5	12 48	10 6	22 59	23 7	6 4	16 39	6 29			
T 18	10 41	24 6	0n42	15 31	0 57	18 4	0 11	21 27	0 44	23 20	0 12	20 51	1 24	12 51	0 43	17 26	0 5	12 47	10 6	22 59	23 7	6 1	16 39	6 30			
F 19	11 2	24 54	1 50	16 19	1 8	18 25	0 14	21 36	0 44	23 19	0 12	20 52	1 24	12 50	0 43	17 26	0 5	12 47	10 6	22 59	23 7	5 58	16 38	6 30			
S 20	11 23	24 19	2 53	17 4	1 18	18 47	0 16	21 44	0 45	23 19	0 12	20 53	1 23	12 49	0 43	17 26	0 5	12 47	10 6	22 59	23 6	5 56	16 37	6 31			
S 21	11 43	22 17	3 48	17 48	1 28	19 8	0 19	21 52	0 45	23 18	0 12	20 54	1 23	12 48	0 43	17 26	0 5	12 47	10 6	22 59	23 6	5 53	16 37	6 32			
M22	12 4	18 53	4 32	18 29	1 38	19 28	0 22	22 0	0 46	23 18	0 12	20 55	1 23	12 48	0 43	17 26	0 5	12 46	10 6	22 59	23 6	5 50	16 36	6 32			
T 23	12 24	14 17	4 59	19 9	1 47	19 48	0 24	22 7	0 46	23 17	0 12	20 56	1 23	12 47	0 43	17 25	0 5	12 46	10 7	22 58	23 6	5 47	16 35	6 33			
W24	12 44	8 45	5 8	19 45	1 56	20 8	0 27	22 14	0 47	23 17	0 12	20 57	1 23	12 47	0 43	17 25	0 5	12 46	10 7	22 58	23 5	5 44	16 35	6 34			
T 25	13 4	2 38	4 56	20 19	2 4	20 26	0 30	22 22	0 47	23 16	0 12	20 58	1 23	12 46	0 43	17 25	0 5	12 46	10 7	22 58	23 5	5 42	16 34	6 34			
F 26	13 23	3s41	4 24	20 51	2 11	20 45	0 33	22 28	0 47	23 15	0 12	20 59	1 22	12 45	0 43	17 25	0 5	12 45	10 7	22 57	23 5	5 39	16 34	6 35			
S 27	13 42	9 46	3 34	21 20	2 17	21 3	0 35	22 35	0 48	23 15	0 12	21 0	1 22	12 45	0 43	17 25	0 5	12 45	10 7	22 56	23 5	5 36	16 33	6 35			
S 28	14 2	15 14	2 29	21 47	2 23	21 20	0 38	22 42	0 48	23 14	0 12	21 1	1 22	12 44	0 43	17 25	0 5	12 45	10 7	22 56	23 4	5 33	16 33	6 36			
M29	14 20	19 42	1 17	22 11	2 28	21 36	0 41	22 48	0 49	23 13	0 13	21 2	1 22	12 44	0 43	17 24	0 5	12 45	10 7	22 56	23 4	5 31	16 32	6 37			
T 30	14n39	22s53	0n 2	22n33	2n32	21n52	0n43	22n54	0n49	23n13	0n13	21n 3	1s22	12s43	0s43	17s24	0n 5	12s45	10n 8	22n56	23n 4	5s28	16s32	6n37			

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

MAY 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 35 0	10♌26'58	1♌39	0♏52	6♏23	11♏42	10♏56	13♏30	28♏24	10♏56	17♏R11	18♏22	20♏0	28♏8	9♏R 1	W 1
T 2	14 38 56	11°25'12	14°47	2° 3	7°36	12°23	11° 5	13°37	28°25	10°57	17♏10	18°23	19°57	28°14	9♏0	T 2
F 3	14 42 53	12°23'24	27°32	3° 9	8°49	13° 3	11°15	13°44	28°27	10°57	17° 9	18°25	19°54	28°21	8°58	F 3
S 4	14 46 49	13°21'35	9♏57	4°10	10° 2	13°43	11°25	13°51	28°28	10°57	17° 8	18°R26	19°51	28°28	8°57	S 4
S 5	14 50 46	14°19'44	22° 7	5° 7	11°14	14°23	11°35	13°58	28°30	10°58	17° 6	18°25	19°47	28°35	8°55	S 5
M 6	14 54 43	15°17'52	4♏6	5°58	12°27	15° 4	11°45	14° 6	28°31	10°58	17° 5	18°24	19°44	28°41	8°54	M 6
T 7	14 58 39	16°15'58	15°59	6°45	13°40	15°44	11°55	14°13	28°32	10°58	17° 4	18°21	19°41	28°48	8°52	T 7
W 8	15 2 36	17°14'03	27°50	7°27	14°52	16°24	12° 5	14°20	28°34	10°58	17° 2	18°16	19°38	28°55	8°51	W 8
T 9	15 6 32	18°12'07	9♏44	8° 4	16° 5	17° 4	12°15	14°27	28°35	10°59	17° 1	18°11	19°35	29° 2	8°49	T 9
F 10	15 10 29	19°10'09	21°41	8°35	17°17	17°44	12°26	14°35	28°36	10°59	17° 0	18° 6	19°32	29° 8	8°47	F 10
S 11	15 14 25	20° 8'09	3♏46	9° 2	18°30	18°24	12°36	14°42	28°37	10°59	16°58	18° 1	19°28	29°15	8°45	S 11
S 12	15 18 22	21° 6'08	16° 0	9°24	19°42	19° 4	12°47	14°49	28°38	10°59	16°57	17°57	19°25	29°22	8°43	S 12
M13	15 22 18	22° 4'06	28°24	9°40	20°54	19°44	12°57	14°57	28°39	10°59	16°55	17°55	19°22	29°28	8°41	M13
T 14	15 26 15	23° 2'02	10♏59	9°51	22° 7	20°24	13° 8	15° 4	28°40	10°59	16°54	17°54	19°19	29°35	8°39	T 14
W15	15 30 12	23°59'56	23°46	9°58	23°19	21° 4	13°19	15°12	28°41	10°59	16°53	17°D53	19°16	29°42	8°37	W15
T 16	15 34 8	24°57'49	6♏46	9°R59	24°31	21°44	13°30	15°19	28°42	10°59	16°51	17°54	19°12	29°49	8°34	T 16
F 17	15 38 5	25°55'41	20° 0	9°56	25°43	22°24	13°41	15°26	28°43	10°59	16°50	17°56	19° 9	29°55	8°32	F 17
S 18	15 42 1	26°53'30	3♏28	9°48	26°56	23° 4	13°52	15°34	28°44	10°59	16°48	17°57	19° 6	0°Y 2	8°30	S 18
S 19	15 45 58	27°51'18	17°11	9°35	28° 8	23°44	14° 3	15°42	28°45	10°58	16°47	17°58	19° 3	0° 9	8°27	S 19
M20	15 49 54	28°49'04	1♏10	9°19	29°20	24°23	14°14	15°49	28°45	10°58	16°45	17°R58	19° 0	0°15	8°25	M20
T 21	15 53 51	29°46'49	15°23	8°58	0♏32	25° 3	14°26	15°57	28°46	10°58	16°44	17°58	18°57	0°22	8°22	T 21
W22	15 57 47	0♏44'31	29°49	8°34	1°44	25°43	14°37	16° 4	28°47	10°58	16°42	17°56	18°53	0°29	8°19	W22
T 23	16 1 44	1°42'12	14♏23	8° 7	2°55	26°23	14°48	16°12	28°47	10°57	16°41	17°55	18°50	0°36	8°17	T 23
F 24	16 5 41	2°39'52	29° 0	7°38	4° 7	27° 2	15° 0	16°20	28°48	10°57	16°39	17°53	18°47	0°42	8°14	F 24
S 25	16 9 37	3°37'30	13♏35	7° 7	5°19	27°42	15°12	16°27	28°48	10°57	16°38	17°51	18°44	0°49	8°11	S 25
S 26	16 13 34	4°35'07	28° 1	6°34	6°31	28°22	15°23	16°35	28°49	10°56	16°36	17°50	18°41	0°56	8° 8	S 26
M27	16 17 30	5°32'43	12♏12	6° 0	7°42	29° 1	15°35	16°43	28°49	10°56	16°34	17°D49	18°38	1° 3	8° 5	M27
T 28	16 21 27	6°30'17	26° 5	5°26	8°54	29°41	15°47	16°50	28°49	10°55	16°33	17°49	18°34	1° 9	8° 2	T 28
W29	16 25 23	7°27'51	9♏35	4°52	10° 5	0♏20	15°59	16°58	28°50	10°55	16°31	17°50	18°31	1°16	7°59	W29
T 30	16 29 20	8°25'23	22°44	4°19	11°17	1° 0	16°10	17° 6	28°50	10°55	16°30	17°51	18°28	1°23	7°56	T 30
F 31	16 33 16	9♏22'55	5♏31	3♏48	12♏28	1♏39	16♏22	17♏14	28♏50	10♏54	16♏28	17♏51	18♏25	1°Y29	7♏53	F 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
W 1	14n57	24s37	1s12	22n52	2n35	22n 8	0n46	23n 0	0n49	23n12	0n13	21n 4	1s22	12s43	0s43	17s24	0n 5	12s44	10n 8	22n56	23n 4	5s25	16s31	6n38			
T 2	15 15	24 55	2 19	23 8	2 37	22 23	0 49	23 6	0 50	23 11	0 13	21 5	1 21	12 42	0 43	17 24	0 5	12 44	10 8	22 56	23 4	5 22	16 30	6 38			
F 3	15 33	23 52	3 17	23 23	2 38	22 37	0 51	23 12	0 50	23 11	0 13	21 6	1 21	12 42	0 43	17 24	0 5	12 44	10 8	22 56	23 3	5 19	16 30	6 39			
S 4	15 51	21 40	4 4	23 35	2 39	22 50	0 54	23 17	0 51	23 10	0 13	21 7	1 21	12 41	0 43	17 24	0 5	12 44	10 8	22 56	23 3	5 17	16 29	6 40			
S 5	16 8	18 33	4 40	23 44	2 38	23 3	0 56	23 22	0 51	23 9	0 13	21 8	1 21	12 41	0 44	17 24	0 5	12 43	10 8	22 56	23 3	5 14	16 29	6 40			
M 6	16 25	14 42	5 2	23 52	2 36	23 16	0 59	23 27	0 51	23 8	0 13	21 9	1 21	12 40	0 44	17 24	0 5	12 43	10 8	22 56	23 3	5 11	16 28	6 41			
T 7	16 42	10 18	5 11	23 57	2 33	23 27	1 1	23 32	0 52	23 7	0 13	21 10	1 21	12 40	0 44	17 24	0 5	12 43	10 8	22 56	23 2	5 8	16 28	6 41			
W 8	16 59	5 33	5 7	24 0	2 29	23 38	1 4	23 36	0 52	23 7	0 13	21 11	1 21	12 39	0 44	17 24	0 5	12 43	10 8	22 55	23 2	5 5	16 28	6 42			
T 9	17 15	0 36	4 50	24 1	2 24	23 49	1 6	23 41	0 52	23 6	0 13	21 12	1 20	12 39	0 44	17 24	0 5	12 43	10 8	22 55	23 2	5 3	16 27	6 43			
F 10	17 31	4n26	4 20	24 0	2 18	23 58	1 9	23 45	0 53	23 5	0 13	21 13	1 20	12 39	0 44	17 24	0 5	12 42	10 8	22 54	23 2	5 0	16 27	6 43			
S 11	17 47	9 21	3 38	23 57	2 10	24 7	1 11	23 49	0 53	23 4	0 13	21 14	1 20	12 38	0 44	17 24	0 5	12 42	10 9	22 54	23 1	4 57	16 26	6 44			
S 12	18 2	13 59	2 46	23 52	2 2	24 16	1 13	23 53	0 53	23 3	0 13	21 15	1 20	12 38	0 44	17 24	0 5	12 42	10 9	22 54	23 1	4 54	16 26	6 44			
M13	18 17	18 6	1 45	23 45	1 52	24 23	1 16	23 56	0 54	23 2	0 14	21 16	1 20	12 38	0 44	17 24	0 5	12 42	10 9	22 53	23 1	4 51	16 25	6 45			
T 14	18 32	21 28	0 38	23 36	1 42	24 30	1 18	23 59	0 54	23 1	0 14	21 17	1 20	12 37	0 44	17 24	0 5	12 42	10 9	22 53	23 1	4 49	16 25	6 45			
W15	18 46	23 50	0n32	23 26	1 30	24 36	1 20	24 3	0 54	23 0	0 14	21 18	1 20	12 37	0 44	17 24	0 5	12 42	10 9	22 53	23 0	4 46	16 25	6 46			
T 16	19 0	24 58	1 42	23 14	1 18	24 42	1 22	24 6	0 55	22 59	0 14	21 19	1 20	12 37	0 44	17 24	0 5	12 41	10 9	22 53	23 0	4 43	16 24	6 46			
F 17	19 14	24 43	2 48	23 0	1 4	24 47	1 25	24 8	0 55	22 58	0 14	21 20	1 20	12 36	0 44	17 24	0 5	12 41	10 9	22 53	23 0	4 40	16 24	6 47			
S 18	19 28	23 2	3 45	22 44	0 50	24 51	1 27	24 11	0 55	22 57	0 14	21 21	1 19	12 36	0 44	17 24	0 5	12 41	10 9	22 54	23 0	4 37	16 23	6 47			
S 19	19 41	19 59	4 31	22 27	0 35	24 54	1 29	24 13	0 56	22 56	0 14	21 21	1 19	12 36	0 44	17 24	0 5	12 41	10 9	22 54	22 59	4 34	16 23	6 48			
M20	19 54	15 45	5 2	22 9	0 19	24 57	1 31	24 15	0 56	22 55	0 14	21 22	1 19	12 36	0 44	17 24	0 5	12 41	10 9	22 54	22 59	4 32	16 23	6 48			
T 21	20 6	10 36	5 15	21 50	0 2	24 59	1 33	24 17	0 56	22 54	0 14	21 23	1 19	12 36	0 44	17 24	0 5	12 41	10 9	22 54	22 59	4 29	16 22	6 49			
W22	20 18	4 47	5 8	21 29	0s15	25 0	1 35	24 19	0 57	22 52	0 14	21 24	1 19	12 35	0 44	17 24	0 5	12 40	10 9	22 54	22 58	4 26	16 22	6 49			
T 23	20 30	1s20	4 42	21 8	0 32	25 1	1 36	24 20	0 57	22 51	0 14	21 25	1 19	12 35	0 44	17 24	0 5	12 40	10 9	22 53	22 58	4 23	16 22	6 50			
F 24	20 42	7 25	3 58	20 46	0 50	25 1	1 38	24 22	0 57	22 50	0 14	21 26	1 19	12 35	0 44	17 24	0 5	12 40	10 9	22 53	22 58	4 20	16 22	6 50			
S 25	20 53	13 5	2 58	20 23	1 7	25 0	1 40	24 23	0 57	22 49	0 14	21 27	1 19	12 35	0 44	17 24	0 5	12 40	10 9	22 53	22 58	4 17	16 21	6 51			
S 26	21 3	17 58	1 47	20 1	1 25	24 58	1 42	24 24	0 58	22 47	0 14	21 28	1 19	12 35	0 44	17 24	0 5	12 40	10 9	22 53	22 57	4 15	16 21	6 51			
M27	21 14	21 45	0 31	19 38	1 42	24 56	1 43	24 24	0 58	22 46	0 15	21 28	1 18	12 35	0 44	17 25	0 5	12 40	10 9	22 53	22 57	4 12	16 21	6 52			
T 28	21 24	24 8	0s46	19 16	1 59	24 53	1 45	24 25	0 58	22 45	0 15	21 29	1 18	12 35	0 44	17 25	0 5	12 40	10 9	22 53	22 57	4 9	16 20	6 52			
W29	21 33	25 3	1 58	18 54	2 15	24 49	1 46	24 25	0 59	22 44	0 15	21 30	1 18	12 35	0 44	17 25	0 5	12 40	10 9	22 53	22 57	4 6	16 20	6 52			
T 30	21 43	24 30	3 1	18 33	2 30	24 45	1 47	24 25	0 59	22 42	0 15	21 31	1 18	12 35	0 44	17 25	0 5	12 39	10 9	22 53	22 56	4 3	16 20	6 53			
F 31	21n51	22s41	3s54	18n13	2s45	24n40	1n49	24n25	0n59	22n41	0n15	21n32	1s18	12s35	0s45	17s25	0n 5	12s39	10n 9	22n53	22n56	4s 0	16s20	6n53			

Julian Day Number = 2452395.5, Delta T = 64.36 sec  
 Ecliptic obliquity = 23°26'22", Nutation = - 0°00'18", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°46'22", Lahiri = 23°53'23"



# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

JUNE 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 13	10°20'26	17°59	3°R19	13°39	2°19	16°34	17°21	28°50	10°R53	16°R27	17°52	18°22	1°Y36	7°R49	S 1
S 2	16 41 10	11°17'55	0°H11	2°II52	14°51	2°58	16°47	17°29	28°50	10°53	16°25	17°53	18°18	1°43	7°Z46	S 2
M 3	16 45 6	12°15'24	12°13	2°28	16° 2	3°37	16°59	17°37	28°R50	10°52	16°23	17°R53	18°15	1°50	7°43	M 3
T 4	16 49 3	13°12'53	24° 8	2° 7	17°13	4°17	17°11	17°45	28°50	10°52	16°22	17°53	18°12	1°56	7°39	T 4
W 5	16 52 59	14°10'20	6°Y1	1°50	18°24	4°56	17°23	17°52	28°50	10°51	16°20	17°52	18° 9	2° 3	7°36	W 5
T 6	16 56 56	15° 7'47	17°56	1°36	19°35	5°36	17°35	18° 0	28°50	10°50	16°18	17°52	18° 6	2°10	7°32	T 6
F 7	17 0 52	16° 5'14	29°57	1°27	20°46	6°15	17°48	18° 8	28°50	10°49	16°17	17°52	18° 3	2°16	7°29	F 7
S 8	17 4 49	17° 2'39	12°8	1°22	21°57	6°54	18° 0	18°16	28°50	10°49	16°15	17°52	17°59	2°23	7°25	S 8
S 9	17 8 45	18° 0'04	24°31	1°D22	23° 8	7°33	18°13	18°24	28°49	10°48	16°14	17°D52	17°56	2°30	7°22	S 9
M10	17 12 42	18°57'28	7°II 9	1°25	24°18	8°13	18°25	18°31	28°49	10°47	16°12	17°52	17°53	2°37	7°18	M10
T 11	17 16 39	19°54'52	20° 2	1°34	25°29	8°52	18°38	18°39	28°49	10°46	16°10	17°R52	17°50	2°43	7°15	T 11
W12	17 20 35	20°52'15	3°E10	1°47	26°40	9°31	18°50	18°47	28°48	10°45	16° 9	17°52	17°47	2°50	7°11	W12
T 13	17 24 32	21°49'37	16°34	2° 4	27°50	10°10	19° 3	18°55	28°48	10°44	16° 7	17°51	17°44	2°57	7° 7	T 13
F 14	17 28 28	22°46'58	0°II12	2°26	29° 1	10°49	19°16	19° 3	28°47	10°43	16° 6	17°51	17°40	3° 3	7° 3	F 14
S 15	17 32 25	23°44'18	14° 1	2°53	0°II11	11°28	19°28	19°10	28°47	10°42	16° 4	17°50	17°37	3°10	7° 0	S 15
S 16	17 36 21	24°41'38	28° 1	3°23	1°21	12° 7	19°41	19°18	28°46	10°41	16° 2	17°50	17°34	3°17	6°56	S 16
M17	17 40 18	25°38'56	12°II 8	3°58	2°31	12°47	19°54	19°26	28°45	10°40	16° 1	17°49	17°31	3°24	6°52	M17
T 18	17 44 15	26°36'14	26°20	4°38	3°42	13°26	20° 7	19°34	28°45	10°39	15°59	17°D49	17°28	3°30	6°48	T 18
W19	17 48 11	27°33'30	10°II35	5°21	4°52	14° 5	20°20	19°41	28°44	10°38	15°58	17°49	17°24	3°37	6°44	W19
T 20	17 52 8	28°30'46	24°50	6° 9	6° 2	14°44	20°33	19°49	28°43	10°37	15°56	17°50	17°21	3°44	6°41	T 20
F 21	17 56 4	29°28'01	9°II 3	7° 0	7°11	15°23	20°45	19°57	28°42	10°36	15°55	17°51	17°18	3°51	6°37	F 21
S 22	18 0 1	0°E25'16	23°10	7°56	8°21	16° 2	20°58	20° 5	28°42	10°35	15°53	17°51	17°15	3°57	6°33	S 22
S 23	18 3 57	1°22'30	7°II 9	8°56	9°31	16°40	21°11	20°12	28°41	10°34	15°52	17°52	17°12	4° 4	6°29	S 23
M24	18 7 54	2°19'43	20°56	9°59	10°41	17°19	21°24	20°20	28°40	10°33	15°50	17°R52	17° 9	4°11	6°25	M24
T 25	18 11 50	3°16'56	4°Z29	11° 6	11°50	17°58	21°38	20°28	28°39	10°32	15°48	17°52	17° 5	4°17	6°21	T 25
W26	18 15 47	4°14'09	17°45	12°17	12°59	18°37	21°51	20°35	28°38	10°30	15°47	17°50	17° 2	4°24	6°17	W26
T 27	18 19 44	5°11'22	0°II45	13°32	14° 9	19°16	22° 4	20°43	28°36	10°29	15°45	17°48	16°59	4°31	6°13	T 27
F 28	18 23 40	6° 8'34	13°28	14°50	15°18	19°55	22°17	20°51	28°35	10°28	15°44	17°46	16°56	4°38	6°10	F 28
S 29	18 27 37	7° 5'46	25°54	16°12	16°27	20°34	22°30	20°58	28°34	10°27	15°43	17°43	16°53	4°44	6° 6	S 29
S 30	18 31 33	8°E 2'58	8°II 7	17°II37	17°II36	21°E12	22°E43	21°II 6	28°II33	10°II25	15°II41	17°II41	16°II50	4°Y51	6°Z 2	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22n 0	19s48	4s35	17n54	2s59	24n34	1n50	24n25	0n59	22n39	0n15	21n33	1s18	12s35	0s45	17s25	0n 5	12s39	10n 9	22n53	22n56	3s58	16s20	6n54			
S 2	22 8	16 6	5 2	17 36	3 11	24 27	1 51	24 24	1 0	22 38	0 15	21 33	1 18	12 35	0 45	17 25	0 5	12 39	10 9	22 53	22 55	3 55	16 19	6 54			
M 3	22 16	11 50	5 15	17 21	3 22	24 20	1 52	24 23	1 0	22 37	0 15	21 34	1 18	12 35	0 45	17 26	0 5	12 39	10 9	22 53	22 55	3 52	16 19	6 54			
T 4	22 23	7 9	5 15	17 7	3 33	24 12	1 53	24 22	1 0	22 35	0 15	21 35	1 18	12 35	0 45	17 26	0 5	12 39	10 8	22 53	22 55	3 49	16 19	6 55			
W 5	22 30	2 13	5 1	16 55	3 42	24 4	1 54	24 21	1 0	22 34	0 15	21 36	1 18	12 35	0 45	17 26	0 5	12 39	10 8	22 53	22 55	3 46	16 19	6 55			
T 6	22 37	2n48	4 34	16 44	3 49	23 55	1 55	24 20	1 1	22 32	0 15	21 37	1 18	12 35	0 45	17 26	0 5	12 39	10 8	22 53	22 54	3 43	16 19	6 55			
F 7	22 43	7 47	3 55	16 36	3 56	23 45	1 56	24 18	1 1	22 31	0 15	21 37	1 17	12 35	0 45	17 26	0 5	12 39	10 8	22 53	22 54	3 40	16 19	6 56			
S 8	22 49	12 32	3 5	16 30	4 1	23 34	1 57	24 17	1 1	22 29	0 15	21 38	1 17	12 35	0 45	17 27	0 5	12 39	10 8	22 53	22 54	3 37	16 18	6 56			
S 9	22 54	16 52	2 6	16 26	4 5	23 23	1 57	24 15	1 1	22 27	0 15	21 39	1 17	12 35	0 45	17 27	0 5	12 39	10 8	22 53	22 54	3 35	16 18	6 56			
M10	22 59	20 32	0 59	16 24	4 8	23 11	1 58	24 13	1 2	22 26	0 16	21 40	1 17	12 35	0 45	17 27	0 5	12 39	10 8	22 53	22 53	3 32	16 18	6 57			
T 11	23 3	23 16	0n12	16 24	4 9	22 59	1 58	24 10	1 2	22 24	0 16	21 40	1 17	12 35	0 45	17 27	0 5	12 39	10 8	22 53	22 53	3 29	16 18	6 57			
W12	23 8	24 48	1 24	16 26	4 10	22 46	1 59	24 8	1 2	22 22	0 16	21 41	1 17	12 36	0 45	17 28	0 5	12 39	10 8	22 53	22 53	3 26	16 18	6 57			
T 13	23 11	24 56	2 32	16 30	4 9	22 32	1 59	24 5	1 2	22 21	0 16	21 42	1 17	12 36	0 45	17 28	0 5	12 39	10 8	22 53	22 52	3 23	16 18	6 57			
F 14	23 15	23 35	3 34	16 36	4 7	22 18	1 59	24 2	1 2	22 19	0 16	21 43	1 17	12 36	0 45	17 28	0 5	12 38	10 7	22 53	22 52	3 20	16 18	6 58			
S 15	23 17	20 49	4 23	16 44	4 5	22 3	1 59	23 59	1 3	22 17	0 16	21 43	1 17	12 36	0 45	17 28	0 5	12 38	10 7	22 53	22 52	3 17	16 18	6 58			
S 16	23 20	16 49	4 58	16 53	4 1	21 48	1 59	23 56	1 3	22 16	0 16	21 44	1 17	12 37	0 45	17 29	0 5	12 38	10 7	22 53	22 51	3 14	16 18	6 58			
M17	23 22	11 51	5 15	17 4	3 57	21 32	1 59	23 52	1 3	22 14	0 16	21 45	1 17	12 37	0 45	17 29	0 5	12 38	10 7	22 53	22 51	3 12	16 18	6 58			
T 18	23 24	6 15	5 13	17 16	3 51	21 15	1 59	23 49	1 3	22 12	0 16	21 45	1 17	12 37	0 45	17 29	0 5	12 38	10 7	22 53	22 51	3 9	16 18	6 59			
W19	23 25	0 17	4 52	17 30	3 45	20 58	1 59	23 45	1 3	22 10	0 16	21 46	1 17	12 37	0 45	17 30	0 5	12 38	10 7	22 53	22 51	3 6	16 18	6 59			
T 20	23 26	5s42	4 13	17 45	3 39	20 41	1 58	23 41	1 4	22 8	0 16	21 47	1 17	12 38	0 45	17 30	0 5	12 38	10 6	22 53	22 50	3 3	16 18	6 59			
F 21	23 26	11 22	3 19	18 1	3 31	20 23	1 58	23 37	1 4	22 6	0 16	21 47	1 17	12 38	0 45	17 30	0 5	12 39	10 6	22 53	22 50	3 0	16 18	6 59			
S 22	23 26	16 26	2 12	18 18	3 23	20 4	1 57	23 32	1 4	22 4	0 16	21 48	1 17	12 38	0 45	17 30	0 5	12 39	10 6	22 53	22 50	2 57	16 18	6 59			
S 23	23 26	20 32	0 59	18 35	3 14	19 45	1 57	23 28	1 4	22 3	0 17	21 48	1 16	12 39	0 45	17 31	0 5	12 39	10 6	22 53	22 49	2 54	16 18	6 59			
M24	23 25	23 25	0s17	18 54	3 5	19 25	1 56	23 23	1 4	22 1	0 17	21 49	1 16	12 39	0 45	17 31	0 5	12 39	10 6	22 53	22 49	2 51	16 18	7 0			
T 25	23 24	24 52	1 30	19 13	2 55	19 5	1 55	23 18	1 4	21 59	0 17	21 50	1 16	12 39	0 45	17 31	0 5	12 39	10 6	22 53	22 49	2 48	16 18	7 0			
W26	23 22	24 52	2 38	19 33	2 45	18 44	1 54	23 13	1 5	21 57	0 17	21 50	1 16	12 40	0 46	17 32	0 5	12 39	10 5	22 53	22 48	2 46	16 18	7 0			
T 27	23 20	23 29	3 35	19 53	2 34	18 23	1 53	23 7	1 5	21 55	0 17	21 51	1 16	12 40	0 46	17 32	0 5	12 39	10 5	22 53	22 48	2 43	16 18	7 0			
F 28	23 18	20 56	4 20	20 13	2 23	18 2	1 52	23 2	1 5	21 53	0 17	21 51	1 16	12 41	0 46	17 32	0 5	12 39	10 5	22 53	22 48	2 40	16 18	7 0			
S 29	23 15	17 28	4 52	20 33	2 11	17 40	1 51	22 56	1 5	21 50	0 17	21 52	1 16	12 41	0 46	17 33	0 5	12 39	10 5	22 52	22 48	2 37	16 18	7 0			
S 30	23n12	13s19	5s10	20n53	2s 0	17n18	1n50	22n51	1n 5	21n48	0n17	21n52	1s16	12s42	0s46	17s33	0n 5	12s39	10n 4	22n52	22n47	2s34	16s19	7n			

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

JULY 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 35 30	9°01'11"	20°09'09"	19°02'06"	18°04'45"	21°05'51"	22°05'56"	21°02'13"	28°03'32"	10°02'24"	15°04'40"	17°03'38"	16°02'46"	4°05'58"	5°05'58"	M 1
T 2	18 39 26	9°05'23"	20°09'09"	19°05'54"	18°05'54"	22°03'30"	23°03'10"	21°02'21"	28°03'30"	10°02'23"	15°04'38"	17°03'37"	16°04'43"	5°04'43"	5°05'54"	T 2
W 3	18 43 23	10°05'43'35"	13°05'57"	22°01'15"	21°03'03"	23°02'39"	23°02'23"	21°02'29"	28°02'29"	10°02'21"	15°03'37"	17°03'37"	16°04'40"	5°05'11"	5°05'50"	W 3
T 4	18 47 19	11°05'14'48"	25°05'52"	23°02'54"	22°02'11"	23°02'47"	23°03'36"	21°03'36"	28°02'28"	10°02'20"	15°03'35"	17°03'38"	16°03'37"	5°05'18"	5°04'46"	T 4
F 5	18 51 16	12°04'49'01"	7°05'54"	25°03'37"	23°02'20"	24°02'26"	23°02'49"	21°02'44"	28°02'26"	10°02'19"	15°03'34"	17°03'39"	16°03'34"	5°05'25"	5°04'42"	F 5
S 6	18 55 13	13°04'46'14"	20°02'08"	27°02'22"	24°02'28"	25°02'05"	24°02'03"	21°02'51"	28°02'25"	10°02'17"	15°03'33"	17°04'11"	16°03'30"	5°05'31"	5°03'39"	S 6
S 7	18 59 09	14°04'43'28"	20°02'37"	29°02'11"	25°02'36"	25°02'43"	24°02'16"	21°02'58"	28°02'23"	10°02'16"	15°03'31"	17°04'42"	16°02'27"	5°05'38"	5°03'35"	S 7
M 8	19 03 06	15°04'40'41"	15°02'25"	19°02'33"	26°02'44"	26°02'22"	24°02'29"	22°02'06"	28°02'22"	10°02'14"	15°03'30"	17°04'43"	16°02'24"	5°05'45"	5°03'31"	M 8
T 9	19 07 02	16°03'37'55"	28°03'33"	25°02'57"	27°02'52"	27°02'01"	24°02'43"	22°02'13"	28°02'20"	10°02'13"	15°02'29"	17°04'43"	16°02'21"	5°05'51"	5°02'27"	T 9
W10	19 10 59	17°03'35'10"	12°02'02"	4°05'54"	29°02'00"	27°02'39"	24°02'56"	22°02'21"	28°02'19"	10°02'11"	15°02'27"	17°04'41"	16°01'18"	5°05'58"	5°02'23"	W10
T 11	19 14 55	18°03'32'24"	25°02'51"	6°05'54"	0°02'08"	28°02'18"	25°02'09"	22°02'28"	28°02'17"	10°02'10"	15°02'26"	17°03'38"	16°01'15"	6°05'05"	5°02'20"	T 11
F 12	19 18 52	19°02'29'39"	9°02'55"	8°05'56"	1°02'16"	28°02'57"	25°02'23"	22°02'35"	28°02'15"	10°02'08"	15°02'25"	17°03'33"	16°01'11"	6°05'12"	5°02'16"	F 12
S 13	19 22 48	20°02'26'53"	24°02'12"	10°05'59"	2°02'23"	29°02'35"	25°02'36"	22°02'42"	28°02'14"	10°02'07"	15°02'23"	17°02'29"	16°01'08"	6°05'18"	5°02'12"	S 13
S 14	19 26 45	21°02'24'08"	8°02'36"	13°04'03"	3°02'31"	0°02'14"	25°02'50"	22°02'50"	28°02'12"	10°02'05"	15°02'22"	17°02'24"	16°01'05"	6°05'25"	5°02'09"	S 14
M15	19 30 42	22°02'21'23"	23°02'01"	15°02'11"	4°02'38"	0°02'52"	26°02'03"	22°02'57"	28°02'10"	10°02'04"	15°02'21"	17°02'20"	16°01'02"	6°05'32"	5°02'05"	M15
T 16	19 34 38	23°02'18'37"	7°02'23"	17°02'18"	5°02'45"	1°02'31"	26°02'16"	23°02'04"	28°02'08"	10°02'02"	15°02'20"	17°02'18"	15°02'59"	6°05'38"	5°02'01"	T 16
W17	19 38 35	24°02'15'52"	21°02'38"	19°02'26"	6°02'52"	2°02'09"	26°02'30"	23°02'11"	28°02'06"	10°02'01"	15°02'19"	17°02'17"	15°02'56"	6°05'45"	4°02'58"	W17
T 18	19 42 31	25°02'13'07"	5°02'44"	21°02'35"	7°02'59"	2°02'48"	26°02'43"	23°02'18"	28°02'05"	9°02'59"	15°02'18"	17°02'17"	15°02'52"	6°05'52"	4°02'54"	T 18
F 19	19 46 28	26°02'10'22"	19°02'39"	23°02'43"	9°02'05"	3°02'26"	26°02'57"	23°02'25"	28°02'03"	9°02'58"	15°02'16"	17°02'18"	15°02'49"	6°05'59"	4°02'51"	F 19
S 20	19 50 24	27°02'07'37"	3°02'24"	25°02'52"	10°02'12"	4°02'05"	27°02'10"	23°02'32"	28°02'01"	9°02'56"	15°02'15"	17°02'19"	15°02'46"	7°02'05"	4°02'47"	S 20
S 21	19 54 21	28°02'04'53"	16°02'57"	28°02'00"	11°02'18"	4°02'43"	27°02'23"	23°02'39"	27°02'59"	9°02'54"	15°02'14"	17°02'20"	15°02'43"	7°02'12"	4°02'44"	S 21
M22	19 58 17	29°02'02'08"	0°02'31"	0°02'02"	12°02'24"	5°02'22"	27°02'37"	23°02'46"	27°02'57"	9°02'53"	15°02'13"	17°02'19"	15°02'40"	7°02'19"	4°02'40"	M22
T 23	20 02 14	29°02'59'25"	13°02'29"	2°02'13"	13°02'30"	6°02'00"	27°02'50"	23°02'53"	27°02'55"	9°02'51"	15°02'12"	17°02'17"	15°02'36"	7°02'25"	4°02'37"	T 23
W24	20 06 11	0°02'56'41"	26°02'26"	4°02'19"	14°02'36"	6°02'39"	28°02'04"	23°02'59"	27°02'53"	9°02'50"	15°02'11"	17°02'12"	15°02'33"	7°02'32"	4°02'34"	W24
T 25	20 10 07	1°02'53'58"	9°02'21"	6°02'23"	15°02'42"	7°02'17"	28°02'17"	24°02'06"	27°02'51"	9°02'48"	15°02'10"	17°02'06"	15°02'30"	7°02'39"	4°02'31"	T 25
F 26	20 14 04	2°02'51'16"	21°02'43"	8°02'26"	16°02'47"	7°02'56"	28°02'30"	24°02'13"	27°02'49"	9°02'46"	15°02'09"	16°02'58"	15°02'27"	7°02'46"	4°02'27"	F 26
S 27	20 18 00	3°02'48'35"	4°02'03"	10°02'27"	17°02'52"	8°02'34"	28°02'44"	24°02'19"	27°02'47"	9°02'45"	15°02'08"	16°02'49"	15°02'24"	7°02'52"	4°02'24"	S 27
S 28	20 21 57	4°02'45'54"	16°02'12"	12°02'28"	18°02'57"	9°02'12"	28°02'57"	24°02'26"	27°02'44"	9°02'43"	15°02'07"	16°02'41"	15°02'21"	7°02'59"	4°02'21"	S 28
M29	20 25 53	5°02'43'14"	28°02'11"	14°02'26"	20°02'02"	9°02'51"	29°02'10"	24°02'33"	27°02'42"	9°02'42"	15°02'06"	16°02'34"	15°02'17"	8°02'06"	4°02'18"	M29
T 30	20 29 50	6°02'40'35"	10°02'09"	16°02'23"	21°02'07"	10°02'29"	29°02'24"	24°02'39"	27°02'40"	9°02'40"	15°02'06"	16°02'29"	15°02'14"	8°02'12"	4°02'15"	T 30
W31	20 33 46	7°02'37'58"	21°02'09"	18°02'19"	22°02'11"	11°02'02"	29°02'37"	24°02'46"	27°02'38"	9°02'38"	15°02'05"	16°02'25"	15°02'11"	8°02'19"	4°02'12"	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23n 8	8s43	5s14	21n12	1s48	16n55	1n48	22n45	1n 5	21n46	0n17	21n53	1s16	12s42	0s46	17s34
T 2	23 4	3 50	5 5	21 31	1 35	16 32	1 47	22 38	1 6	21 44	0 17	21 53	1 16	12 42	0 46	17 34
W 3	22 59	1n10	4 42	21 50	1 23	16 8	1 45	22 32	1 6	21 42	0 17	21 54	1 16	12 43	0 46	17 34
T 4	22 55	6 9	4 7	22 7	1 11	15 45	1 43	22 26	1 6	21 40	0 17	21 54	1 16	12 43	0 46	17 35
F 5	22 49	10 58	3 21	22 24	0 58	15 20	1 41	22 19	1 6	21 38	0 17	21 55	1 16	12 44	0 46	17 35
S 6	22 44	15 26	2 26	22 39	0 46	14 56	1 39	22 12	1 6	21 35	0 18	21 55	1 16	12 45	0 46	17 35
S 7	22 38	19 21	1 22	22 53	0 33	14 31	1 37	22 5	1 6	21 33	0 18	21 56	1 16	12 45	0 46	17 36
M 8	22 31	22 26	0 13	23 5	0 21	14 6	1 35	21 58	1 6	21 31	0 18	21 56	1 16	12 46	0 46	17 36
T 9	22 24	24 25	0n59	23 15	0 9	13 40	1 33	21 51	1 6	21 29	0 18	21 57	1 16	12 46	0 46	17 37
W10	22 17	25 2	2 9	23 23	0n 2	13 14	1 31	21 43	1 7	21 26	0 18	21 57	1 16	12 47	0 46	17 37
T 11	22 9	24 8	3 13	23 29	0 14	12 48	1 28	21 35	1 7	21 24	0 18	21 58	1 16	12 47	0 46	17 37
F 12	22 1	21 43	4 7	23 33	0 24	12 21	1 25	21 28	1 7	21 22	0 18	21 58	1 16	12 48	0 46	17 38
S 13	21 53	17 57	4 46	23 34	0 35	11 55	1 23	21 20	1 7	21 19	0 18	21 59	1 16	12 49	0 46	17 38
S 14	21 44	13 6	5 7	23 32	0 45	11 28	1 20	21 12	1 7	21 17	0 18	21 59	1 16	12 49	0 46	17 39
M15	21 35	7 31	5 10	23 28	0 54	11 1	1 17	21 3	1 7	21 14	0 18	21 59	1 16	12 50	0 46	17 39
T 16	21 26	1 33	4 52	23 21	1 2	10 33	1 14	20 55	1 7	21 12	0 18	22 0	1 16	12 51	0 46	17 40
W17	21 16	4s27	4 17	23 11	1 10	10 5	1 11	20 46	1 7	21 9	0 19	22 0	1 16	12 51	0 46	17 40
T 18	21 6	10 11	3 27	22 59	1 17	9 38	1 8	20 38	1 7	21 7	0 19	22 0	1 16	12 52	0 46	17 40
F 19	20 55	15 20	2 25	22 44	1 24	9 9	1 4	20 29	1 8	21 4	0 19	22 1	1 16	12 53	0 46	17 41
S 20	20 44	19 36	1 15	22 26	1 29	8 41	1 1	20 20	1 8	21 2	0 19	22 1	1 16	12 53	0 46	17 41
S 21	20 33	22 46	0 2	22 6	1 34	8 13	0 58	20 11	1 8	20 59	0 19	22 2	1 16	12 54	0 46	17 42
M22	20 21	24 36	1s10	21 44	1 38	7 44	0 54	20 1	1 8	20 57	0 19	22 2	1 16	12 55	0 46	17 42
T 23	20 9	25 1	2 17	21 19	1 42	7 15	0 50	19 52	1 8	20 54	0 19	22 2	1 16	12 55	0 46	17 43
W24	19 57	24 4	3 15	20 52	1 44	6 47	0 46	19 42	1 8	20 52	0 19	22 2	1 16	12 56	0 46	17 43
T 25	19 44	21 52	4 3	20 23	1 46	6 18	0 42	19 33	1 8	20 49	0 19	22 3	1 16	12 57	0 46	17 43
F 26	19 31	18 39	4 38	19 53	1 47	5 48	0 38	19 23	1 8	20 47	0 19	22 3	1 16	12 58	0 46	17 44
S 27	19 18	14 40	5 0	19 20	1 47	5 19	0 34	19 13	1 8	20 44	0 19	22 3	1 16	12 58	0 46	17 44
S 28	19 4	10 9	5 7	18 47	1 47	4 50	0 30	19 3	1 8	20 41	0 20	22 4	1 16	12 59	0 46	17 45
M29	18 50	5 19	5 1	18 12	1 46	4 20	0 26	18 53	1 8	20 39	0 20	22 4	1 16	13 0	0 46	17 45
T 30	18 36	0 19	4 42	17 35	1 44	3 51	0 21	18 42	1 8	20 36	0 20	22 4	1 16	13 1	0 46	17 46
W31	18n22	4n40	4s10	16n58	1n42	3n21	0n17	18n32	1n 8	20n33	0n20	22n 4	1s16	13s 1	0s46	17s46

Julian Day Number = 2452456.5, Delta T = 64.39 sec  
 Ecliptic obliquity = 23°26'22", Nutation = - 0°00'16", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°46'31", Lahiri = 23°53'31"



# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

AUGUST 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 43	8♌35°21	3♌50	20♌12	23♍15	11♌46	29♍50	24♌52	27°R36	9°R37	15°R 4	16°D24	15♌ 8	8♍26	4°R10	T 1	
F 2	20 41 40	9°32'45	15°51	22° 5	24°19	12°24	0♌ 4	24°58	27°34	9°35	15° 3	16♌24	15° 5	8°33	4° 7	F 2	
S 3	20 45 36	10°30'11	28° 3	23°55	25°23	13° 2	0°17	25° 5	27°31	9°33	15° 3	16°25	15° 2	8°39	4° 4	S 3	
S 4	20 49 33	11°27'37	10♌33	25°44	26°27	13°41	0°30	25°11	27°29	9°32	15° 2	16°R26	14°58	8°46	4° 1	S 4	
M 5	20 53 29	12°25'05	23°24	27°31	27°30	14°19	0°43	25°17	27°27	9°30	15° 1	16°26	14°55	8°53	3°59	M 5	
T 6	20 57 26	13°22'35	6♌40	29°17	28°33	14°57	0°57	25°23	27°24	9°29	15° 1	16°24	14°52	8°59	3°56	T 6	
W 7	21 1 22	14°20'05	20°22	1♍ 1	29°36	15°36	1°10	25°29	27°22	9°27	15° 0	16°20	14°49	9° 6	3°54	W 7	
T 8	21 5 19	15°17'36	4♌29	2°44	0♌39	16°14	1°23	25°35	27°20	9°25	14°59	16°13	14°46	9°13	3°51	T 8	
F 9	21 9 16	16°15'09	18°57	4°25	1°41	16°52	1°36	25°41	27°18	9°24	14°59	16° 5	14°42	9°20	3°49	F 9	
S 10	21 13 12	17°12'42	3♍40	6° 4	2°43	17°31	1°49	25°47	27°15	9°22	14°58	15°56	14°39	9°26	3°47	S 10	
S 11	21 17 9	18°10'17	18°30	7°42	3°45	18° 9	2° 3	25°53	27°13	9°20	14°58	15°47	14°36	9°33	3°44	S 11	
M12	21 21 5	19° 7'52	3♌18	9°18	4°46	18°47	2°16	25°58	27°10	9°19	14°57	15°39	14°33	9°40	3°42	M12	
T 13	21 25 2	20° 5'29	17°58	10°53	5°48	19°25	2°29	26° 4	27° 8	9°17	14°57	15°33	14°30	9°46	3°40	T 13	
W14	21 28 58	21° 3'06	2♌23	12°26	6°49	20° 4	2°42	26°10	27° 6	9°16	14°56	15°30	14°27	9°53	3°38	W14	
T 15	21 32 55	22° 0'44	16°30	13°58	7°49	20°42	2°55	26°15	27° 3	9°14	14°56	15°D28	14°23	10° 0	3°36	T 15	
F 16	21 36 51	22°58'23	0♌20	15°28	8°49	21°20	3° 8	26°21	27° 1	9°12	14°56	15°28	14°20	10° 7	3°34	F 16	
S 17	21 40 48	23°56'03	13°52	16°56	9°49	21°58	3°21	26°26	26°59	9°11	14°55	15°R29	14°17	10°13	3°33	S 17	
S 18	21 44 44	24°53'45	27° 8	18°23	10°49	22°37	3°34	26°31	26°56	9° 9	14°55	15°28	14°14	10°20	3°31	S 18	
M19	21 48 41	25°51'27	10♌30	19°48	11°48	23°15	3°46	26°37	26°54	9° 8	14°55	15°26	14°11	10°27	3°29	M19	
T 20	21 52 38	26°49'10	22°59	21°12	12°47	23°53	3°59	26°42	26°51	9° 6	14°55	15°21	14° 8	10°33	3°28	T 20	
W21	21 56 34	27°46'55	5♌38	22°34	13°45	24°31	4°12	26°47	26°49	9° 5	14°55	15°13	14° 4	10°40	3°26	W21	
T 22	22 0 31	28°44'41	18° 6	23°54	14°43	25° 9	4°25	26°52	26°47	9° 3	14°54	15° 3	14° 1	10°47	3°25	T 22	
F 23	22 4 27	29°42'28	0♌25	25°13	15°41	25°48	4°37	26°57	26°44	9° 2	14°54	14°50	13°58	10°53	3°23	F 23	
S 24	22 8 24	0♍40'16	12°35	26°29	16°38	26°26	4°50	27° 2	26°42	9° 0	14°54	14°37	13°55	11° 0	3°22	S 24	
S 25	22 12 20	1°38'06	24°37	27°44	17°35	27° 4	5° 3	27° 6	26°39	8°59	14°54	14°24	13°52	11° 7	3°21	S 25	
M26	22 16 17	2°35'58	6♍33	28°57	18°31	27°42	5°15	27°11	26°37	8°57	14°D54	14°13	13°48	11°14	3°20	M26	
T 27	22 20 13	3°33'51	18°24	0♌ 8	19°27	28°20	5°28	27°16	26°35	8°56	14°54	14° 3	13°45	11°20	3°19	T 27	
W28	22 24 10	4°31'46	0♌14	1°17	20°22	28°59	5°40	27°20	26°32	8°54	14°54	13°56	13°42	11°27	3°18	W28	
T 29	22 28 7	5°29'42	12° 6	2°24	21°17	29°37	5°53	27°25	26°30	8°53	14°54	13°52	13°39	11°34	3°17	T 29	
F 30	22 32 3	6°27'41	24° 4	3°29	22°11	0♍15	6° 5	27°29	26°28	8°52	14°54	13°50	13°36	11°40	3°16	F 30	
S 31	22 36 0	7♍25'41	6♌14	4♌31	23♌ 5	0♍53	6♌18	27♌33	26°25	8°50	14°54	13♌50	13♌33	11°47	3♌16	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
T 1	18n 7	9n32	3s28	16n19	1n40	2n52	0n12	18n21	1n 8	20n31	0n20	22n 5	1s16	13s 2	0s46	17s47	0n 4	12s45	9n55	22n45	22n37	1s 0	16s27	6n56			
F 2	17 52	14 5	2 37	15 40	1 36	2 22	0 7	18 11	1 9	20 28	0 20	22 5	1 16	13 3	0 46	17 47	0 4	12 45	9 54	22 45	22 36	0 57	16 27	6 56			
S 3	17 36	18 9	1 37	15 0	1 33	1 52	0 3	18 0	1 9	20 25	0 20	22 5	1 16	13 4	0 47	17 47	0 4	12 45	9 54	22 45	22 36	0 54	16 28	6 55			
S 4	17 21	21 31	0 32	14 20	1 28	1 23	0s 2	17 49	1 9	20 22	0 20	22 5	1 16	13 4	0 47	17 48	0 4	12 46	9 54	22 45	22 36	0 51	16 28	6 55			
M 5	17 5	23 54	0n37	13 39	1 24	0 53	0 7	17 38	1 9	20 20	0 20	22 5	1 16	13 5	0 47	17 48	0 4	12 46	9 53	22 45	22 35	0 48	16 28	6 55			
T 6	16 48	25 2	1 46	12 57	1 19	0 23	0 12	17 27	1 9	20 17	0 20	22 6	1 16	13 6	0 47	17 49	0 4	12 46	9 53	22 45	22 35	0 45	16 29	6 54			
W 7	16 32	24 43	2 51	12 15	1 13	0s 7	0 18	17 15	1 9	20 14	0 20	22 6	1 16	13 7	0 47	17 49	0 4	12 47	9 53	22 44	22 34	0 42	16 29	6 54			
T 8	16 15	22 49	3 47	11 33	1 7	0 36	0 23	17 4	1 9	20 11	0 21	22 6	1 16	13 8	0 47	17 50	0 4	12 47	9 52	22 44	22 34	0 39	16 30	6 54			
F 9	15 58	19 25	4 31	10 50	1 1	1 6	0 28	16 52	1 9	20 8	0 21	22 6	1 16	13 8	0 47	17 50	0 4	12 47	9 52	22 43	22 34	0 36	16 30	6 53			
S 10	15 41	14 46	4 57	10 8	0 54	1 36	0 34	16 41	1 9	20 6	0 21	22 6	1 16	13 9	0 47	17 51	0 4	12 48	9 51	22 42	22 33	0 34	16 30	6 53			
S 11	15 23	9 12	5 3	9 25	0 48	2 5	0 39	16 29	1 9	20 3	0 21	22 7	1 16	13 10	0 47	17 51	0 4	12 48	9 51	22 41	22 33	0 31	16 31	6 52			
M12	15 5	3 7	4 49	8 42	0 40	2 35	0 45	16 17	1 9	20 0	0 21	22 7	1 16	13 11	0 47	17 51	0 4	12 48	9 51	22 40	22 33	0 28	16 31	6 52			
T 13	14 47	3s 5	4 17	8 0	0 33	3 5	0 51	16 5	1 9	19 57	0 21	22 7	1 16	13 12	0 47	17 52	0 4	12 49	9 50	22 39	22 32	0 25	16 32	6 52			
W14	14 29	9 2	3 28	7 17	0 25	3 34	0 56	15 53	1 9	19 54	0 21	22 7	1 16	13 13	0 47	17 52	0 4	12 49	9 50	22 39	22 32	0 22	16 32	6 51			
T 15	14 10	14 25	2 28	6 35	0 17	4 3	1 2	15 41	1 9	19 51	0 21	22 7	1 16	13 13	0 47	17 53	0 4	12 49	9 49	22 39	22 32	0 19	16 33	6 51			
F 16	13 52	18 55	1 20	5 52	0 9	4 33	1 8	15 29	1 9	19 48	0 21	22 7	1 16	13 14	0 47	17 53	0 4	12 50	9 49	22 39	22 31	0 16	16 33	6 51			
S 17	13 33	22 19	0 9	5 10	0 1	5 2	1 14	15 16	1 9	19 45	0 22	22 7	1 16	13 15	0 47	17 54	0 4	12 50	9 49	22 39	22 31	0 13	16 34	6 50			
S 18	13 13	24 26	1s 1	4 29	0s 8	5 31	1 20	15 4	1 9	19 43	0 22	22 7	1 16	13 16	0 47	17 54	0 4	12 50	9 48	22 39	22 30	0 10	16 34	6 50			
M19	12 54	25 10	2 7	3 47	0 16	6 0	1 26	14 51	1 9	19 40	0 22	22 8	1 16	13 17	0 47	17 54	0 4	12 51	9 48	22 39	22 30	0 7	16 34	6 49			
T 20	12 34	24 31	3 5	3 6	0 25	6 28	1 33	14 39	1 9	19 37	0 22	22 8	1 16	13 18	0 47	17 55	0 4	12 51	9 47	22 38	22 30	0 4	16 35	6 49			
W21	12 15	22 37	3 53	2 26	0 34	6 57	1 39	14 26	1 9	19 34	0 22	22 8	1 16	13 18	0 47	17 55	0 4	12 52	9 47	22 37	22 29	0 1	16 35	6 48			
T 22	11 55	19 39	4 28	1 46	0 43	7 25	1 45	14 13	1 9	19 31	0 22	22 8	1 16	13 19	0 47	17 56	0 4	12 52	9 47	22 36	22 29	0n 2	16 36	6 48			
F 23	11 34	15 52	4 51	1 6	0 53	7 54	1 52	14 0	1 9	19 28	0 22	22 8	1 16	13 20	0 47	17 56	0 4	12 52	9 46	22 35	22 29	0 5	16 36	6 48			
S 24	11 14	11 27	5 0	0 27	1 2	8 22	1 58	13 47	1 9	19 25	0 22	22 8	1 16	13 21	0 47	17 56	0 4	12 53	9 46	22 33	22 28	0 8	16 37	6 47			
S 25	10 54	6 40	4 56	0s11	1 11	8 50	2 5	13 34	1 9	19 22	0 22	22 8	1 17	13 22	0 47	17 57	0 4	12 53	9 45	22 32	22 28	0 11	16 37	6 47			
M26	10 33	1 40	4 38	0 49	1 21	9 17	2 12	13 21	1 9	19 19	0 23	22 8	1 17	13 22	0 47	17 57	0 4	12 54	9 45	22 30	22 27	0 14	16 38	6 46			
T 27	10 12	3n23	4 9	1 26	1 30	9 45	2 18	13 8	1 9	19 16	0 23	22 8	1 17	13 23	0 47	17 58	0 4	12 54	9 45	22 29	22 27	0 17	16 38	6 46			
W28	9 51	8 18	3 29	2 2	1 40	10 12	2 25	12 54	1 9	19 13	0 23	22 8	1 17	13 24	0 47	17 58	0 4	12 54	9 44	22 28	22 27	0 20	16 39	6 45			
T 29	9 30	12 56	2 39	2 37	1 49	10 39	2 32	12 41	1 9	19 10	0 23	22 8	1 17	13 25	0 47	17 58	0 4	12 55	9 44	22 28	22 26	0 23	16 39	6 45			
F 30	9 8	17 8	1 43	3 12	1 58	11 36	2 39	12 27	1 9	19 7	0 23	22 8	1 17	13 26	0 47	17 59	0 4	12 55	9 43	22 28	22 26	0 26	16 40	6 44			
S 31	8n47	20n41	0s40	3s45	2s 8	11s32	2s46	12n14	1n 9	19n 4	0n23	22n 8	1s17	13s26	0s47	17s59	0n 4	12s56	9n43	22n28	22n26	0n29	16s40	6n44			

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

SEPTEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 56	8♍23'44	18♏41	5♊31	23♏58	1♍31	6♏30	27♏37	26♏23	8♏49	14♏55	13♏50	13♏29	11♏54	3♏15	S 1
M 2	22 43 53	9°21'48	1♏30	6°28	24°51	2° 9	6°42	27°42	26♏21	8♏47	14°55	13♏49	13°26	12° 1	3♏15	M 2
T 3	22 47 49	10°19'54	14°45	7°22	25°43	2°48	6°54	27°46	26°18	8°46	14°55	13°47	13°23	12° 7	3°14	T 3
W 4	22 51 46	11°18'02	28°29	8°14	26°35	3°26	7° 6	27°50	26°16	8°45	14°55	13°42	13°20	12°14	3°14	W 4
T 5	22 55 42	12°16'12	12♏42	9° 2	27°25	4° 4	7°19	27°53	26°14	8°44	14°56	13°34	13°17	12°21	3°14	T 5
F 6	22 59 39	13°14'24	27°21	9°47	28°16	4°42	7°31	27°57	26°12	8°42	14°56	13°24	13°13	12°27	3°13	F 6
S 7	23 3 36	14°12'38	12♍20	10°28	29° 5	5°20	7°43	28° 1	26° 9	8°41	14°56	13°13	13°10	12°34	3°13	S 7
S 8	23 7 32	15°10'53	27°30	11° 5	29°54	5°59	7°54	28° 4	26° 7	8°40	14°57	13° 2	13° 7	12°41	3°D13	S 8
M 9	23 11 29	16° 9'10	12♏40	11°39	0♏42	6°37	8° 6	28° 8	26° 5	8°39	14°57	12°52	13° 4	12°47	3°13	M 9
T 10	23 15 25	17° 7'28	27°39	12° 8	1°29	7°15	8°18	28°11	26° 3	8°37	14°58	12°45	13° 1	12°54	3°14	T 10
W11	23 19 22	18° 5'49	12♏20	12°32	2°15	7°53	8°30	28°15	26° 0	8°36	14°58	12°40	12°58	13° 1	3°14	W11
T 12	23 23 18	19° 4'10	26°38	12°51	3° 1	8°31	8°41	28°18	25°58	8°35	14°59	12°37	12°54	13° 8	3°14	T 12
F 13	23 27 15	20° 2'34	10♏32	13° 5	3°46	9° 9	8°53	28°21	25°56	8°34	14°59	12°D37	12°51	13°14	3°15	F 13
S 14	23 31 11	21° 0'59	24° 3	13°13	4°30	9°48	9° 4	28°24	25°54	8°33	15° 0	12°R37	12°48	13°21	3°15	S 14
S 15	23 35 8	21°59'25	7♏12	13°R15	5°12	10°26	9°16	28°27	25°52	8°32	15° 0	12°36	12°45	13°28	3°16	S 15
M16	23 39 5	22°57'53	20° 3	13°10	5°54	11° 4	9°27	28°29	25°50	8°31	15° 1	12°34	12°42	13°34	3°16	M16
T 17	23 43 1	23°56'23	2♏39	12°59	6°35	11°42	9°38	28°32	25°48	8°30	15° 2	12°29	12°39	13°41	3°17	T 17
W18	23 46 58	24°54'54	15° 4	12°41	7°15	12°20	9°50	28°35	25°46	8°29	15° 2	12°21	12°35	13°48	3°18	W18
T 19	23 50 54	25°53'27	27°19	12°17	7°53	12°58	10° 1	28°37	25°44	8°28	15° 3	12°10	12°32	13°54	3°19	T 19
F 20	23 54 51	26°52'02	9♏26	11°45	8°31	13°37	10°12	28°40	25°42	8°27	15° 4	11°58	12°29	14° 1	3°20	F 20
S 21	23 58 47	27°50'39	21°27	11° 6	9° 7	14°15	10°23	28°42	25°40	8°26	15° 5	11°44	12°26	14° 8	3°21	S 21
S 22	0 2 44	28°49'17	3♏23	10°21	9°42	14°53	10°34	28°44	25°38	8°25	15° 6	11°31	12°23	14°15	3°22	S 22
M23	0 6 40	29°47'58	15°15	9°29	10°16	15°31	10°44	28°46	25°36	8°24	15° 6	11°19	12°19	14°21	3°23	M23
T 24	0 10 37	0♏46'40	27° 5	8°32	10°48	16° 9	10°55	28°48	25°35	8°23	15° 7	11° 9	12°16	14°28	3°25	T 24
W25	0 14 34	1°45'25	8♏55	7°31	11°19	16°47	11° 6	28°50	25°33	8°22	15° 8	11° 2	12°13	14°35	3°26	W25
T 26	0 18 30	2°44'11	20°48	6°26	11°49	17°26	11°16	28°52	25°31	8°21	15° 9	10°58	12°10	14°41	3°28	T 26
F 27	0 22 27	3°43'00	2♏47	5°20	12°17	18° 4	11°27	28°53	25°29	8°21	15°10	10°56	12° 7	14°48	3°29	F 27
S 28	0 26 23	4°41'52	14°57	4°13	12°43	18°42	11°37	28°55	25°28	8°20	15°11	10°D56	12° 4	14°55	3°31	S 28
S 29	0 30 20	5°40'45	27°22	3° 8	13° 8	19°20	11°47	28°56	25°26	8°19	15°12	10°56	12° 0	15° 1	3°33	S 29
M30	0 34 16	6♏39'41	10♏ 6	2♏ 6	13♏31	19♏58	11♏57	28♏58	25♏24	8♏19	15♏14	10°R56	11♏57	15♏ 8	3♏35	M30

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	8n25	23n23	0n26	4s17	2s17	11s58	2s53	12n 0	1n 9	19n 1	0n23	22n 8	1s17	13s27	0s47	18s 0	0n 4	12s56	9n42	22n28	22n25	0n32	16s41	6n43
M 2	8 4	24 58	1 32	4 48	2 26	12 24	3 0	11 47	1 9	18 59	0 23	22 8	1 17	13 28	0 47	18 0	0 4	12 57	9 42	22 28	22 25	0 35	16 41	6 43
T 3	7 42	25 12	2 36	5 18	2 35	12 50	3 7	11 33	1 9	18 56	0 24	22 8	1 17	13 29	0 47	18 0	0 4	12 57	9 42	22 27	22 24	0 38	16 42	6 42
W 4	7 20	23 56	3 32	5 47	2 44	13 16	3 14	11 19	1 9	18 53	0 24	22 8	1 17	13 30	0 47	18 1	0 4	12 57	9 41	22 27	22 24	0 41	16 42	6 42
T 5	6 57	21 7	4 18	6 14	2 53	13 41	3 21	11 5	1 9	18 50	0 24	22 8	1 17	13 30	0 47	18 1	0 4	12 58	9 41	22 26	22 24	0 44	16 43	6 41
F 6	6 35	16 54	4 49	6 39	3 2	14 5	3 28	10 51	1 9	18 47	0 24	22 8	1 17	13 31	0 47	18 1	0 4	12 58	9 40	22 25	22 23	0 47	16 43	6 41
S 7	6 13	11 33	5 0	7 3	3 10	14 30	3 35	10 37	1 8	18 44	0 24	22 8	1 17	13 32	0 47	18 2	0 4	12 59	9 40	22 23	22 23	0 50	16 44	6 40
S 8	5 50	5 26	4 51	7 25	3 18	14 54	3 42	10 23	1 8	18 41	0 24	22 8	1 17	13 33	0 47	18 2	0 4	12 59	9 40	22 22	22 22	0 53	16 44	6 40
M 9	5 28	1s 0	4 21	7 45	3 25	15 18	3 50	10 9	1 8	18 38	0 24	22 8	1 17	13 33	0 47	18 2	0 4	13 0	9 39	22 21	22 22	0 56	16 45	6 39
T 10	5 5	7 19	3 34	8 3	3 32	15 41	3 57	9 54	1 8	18 35	0 24	22 8	1 17	13 34	0 47	18 3	0 4	13 0	9 39	22 20	22 22	0 59	16 45	6 39
W11	4 42	13 7	2 33	8 19	3 39	16 4	4 4	9 40	1 8	18 32	0 25	22 8	1 17	13 35	0 47	18 3	0 4	13 1	9 38	22 19	22 21	1 2	16 46	6 38
T 12	4 20	18 3	1 23	8 32	3 45	16 27	4 11	9 26	1 8	18 29	0 25	22 8	1 17	13 35	0 47	18 3	0 4	13 1	9 38	22 19	22 21	1 5	16 46	6 38
F 13	3 57	21 51	0 11	8 42	3 50	16 49	4 18	9 11	1 8	18 26	0 25	22 8	1 17	13 36	0 46	18 4	0 4	13 2	9 37	22 19	22 20	1 8	16 47	6 37
S 14	3 34	24 18	1s 0	8 49	3 55	17 11	4 26	8 57	1 8	18 23	0 25	22 8	1 18	13 37	0 46	18 4	0 4	13 2	9 37	22 19	22 20	1 11	16 47	6 37
S 15	3 11	25 21	2 6	8 53	3 58	17 32	4 33	8 42	1 8	18 20	0 25	22 8	1 18	13 38	0 46	18 4	0 4	13 3	9 37	22 18	22 20	1 14	16 48	6 36
M16	2 48	24 59	3 4	8 54	4 1	17 53	4 40	8 28	1 8	18 18	0 25	22 8	1 18	13 38	0 46	18 5	0 4	13 3	9 36	22 18	22 19	1 17	16 48	6 36
T 17	2 24	23 20	3 52	8 51	4 3	18 14	4 47	8 13	1 8	18 15	0 25	22 8	1 18	13 39	0 46	18 5	0 4	13 3	9 36	22 18	22 19	1 20	16 49	6 35
W18	2 1	20 35	4 28	8 44	4 3	18 34	4 54	7 59	1 8	18 12	0 26	22 8	1 18	13 40	0 46	18 5	0 4	13 4	9 35	22 16	22 18	1 23	16 49	6 35
T 19	1 38	16 57	4 51	8 33	4 2	18 53	5 2	7 44	1 8	18 9	0 26	22 8	1 18	13 40	0 46	18 5	0 4	13 4	9 35	22 15	22 18	1 26	16 50	6 34
F 20	1 15	12 40	5 0	8 18	3 59	19 12	5 9	7 29	1 8	18 6	0 26	22 8	1 18	13 41	0 46	18 6	0 4	13 5	9 35	22 13	22 18	1 29	16 50	6 34
S 21	0 51	7 56	4 56	7 59	3 54	19 31	5 16	7 14	1 8	18 3	0 26	22 8	1 18	13 42	0 46	18 6	0 4	13 5	9 34	22 12	22 17	1 32	16 51	6 33
S 22	0 28	2 56	4 39	7 36	3 48	19 49	5 23	7 0	1 7	18 1	0 26	22 8	1 18	13 42	0 46	18 6	0 4	13 6	9 34	22 10	22 17	1 35	16 51	6 33
M23	0 5	2n 9	4 10	7 8	3 40	20 6	5 29	6 45	1 7	17 58	0 26	22 8	1 18	13 43	0 46	18 6	0 4	13 6	9 33	22 8	22 16	1 38	16 52	6 32
T 24	0s19	7 10	3 30	6 36	3 30	20 23	5 36	6 30	1 7	17 55	0 26	22 8	1 18	13 43	0 46	18 7	0 4	13 7	9 33	22 7	22 16	1 41	16 52	6 32
W25	0 42	11 55	2 41	6 1	3 18	20 39	5 43	6 15	1 7	17 52	0 27	22 8	1 18	13 44	0 46	18 7	0 4	13 7	9 33	22 6	22 16	1 44	16 52	6 31
T 26	1 5	16 16	1 45	5 23	3 5	20 55	5 50	6 0	1 7	17 49	0 27	22 8	1 18	13 44	0 46	18 7	0 4	13 8	9 32	22 5	22 15	1 47	16 53	6 31
F 27	1 29	20 1	0 43	4 42	2 49	21 10	5 56	5 45	1 7	17 47	0 27	22 8	1 18	13 45	0 46	18 7	0 4	13 8	9 32	22 5	22 15	1 50	16 53	6 30
S 28	1 52	22 57	0n21	4 0	2 32	21 24	6 2	5 30	1 7	17 44	0 27	22 8	1 18	13 46	0 46	18 7	0 4	13 9	9 31	22 5	22 14	1 53	16 54	6 30
S 29	2 15	24 51	1 27	3 17	2 14	21 38	6 9	5 15	1 7	17 41	0 27	22 8	1 18	13 46	0 46	18 8	0 4	13 9	9 31	22 5	22 14	1 56	16 54	6 29
M30	2s39	25n32	2n29	2s35	1s54	21s50	6s15	5n 0	1n 7	17n39	0n27	22n 8	1s18	13s47	0s46	18s 8	0n 4	13s10	9n31	22n 5	22n13	1n59	16s55	6n29

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

OCTOBER 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 13	7♂38'39	23♂16	1°R 9	13♂52	20♂37	12♂7	28♂59	25°R23	8°R18	15♂15	10°R55	11♂54	15♂15	3♂37	T 1
W 2	0 42 9	8°37'40	6♂53	0♂18	14°12	21°15	12°17	29° 0	25♂21	8♂17	15°16	10♂52	11°51	15°22	3°39	W 2
T 3	0 46 6	9°36'42	21° 1	29♂35	14°29	21°53	12°27	29° 1	25°20	8°17	15°17	10°46	11°48	15°28	3°41	T 3
F 4	0 50 3	10°35'47	5♂36	29° 1	14°45	22°31	12°37	29° 2	25°18	8°16	15°18	10°39	11°45	15°35	3°43	F 4
S 5	0 53 59	11°34'54	20°35	28°37	14°59	23° 9	12°47	29° 3	25°17	8°16	15°19	10°30	11°41	15°42	3°45	S 5
S 6	0 57 56	12°34'03	5♂49	28°23	15°11	23°48	12°56	29° 3	25°15	8°15	15°21	10°21	11°38	15°48	3°47	S 6
M 7	1 1 52	13°33'14	21° 8	28°D19	15°20	24°26	13° 6	29° 4	25°14	8°15	15°22	10°13	11°35	15°55	3°50	M 7
T 8	1 5 49	14°32'28	6♂20	28°27	15°28	25° 4	13°15	29° 4	25°13	8°14	15°23	10° 7	11°32	16° 2	3°52	T 8
W 9	1 9 45	15°31'43	21°16	28°44	15°33	25°42	13°24	29° 5	25°11	8°14	15°25	10° 3	11°29	16° 8	3°55	W 9
T 10	1 13 42	16°31'00	5♂48	29°12	15°36	26°21	13°33	29° 5	25°10	8°14	15°26	10°D 2	11°25	16°15	3°58	T 10
F 11	1 17 38	17°30'19	19°53	29°49	15°R37	26°59	13°42	29° 5	25° 9	8°13	15°27	10° 2	11°22	16°22	4° 0	F 11
S 12	1 21 35	18°29'40	3♂30	0♂35	15°35	27°37	13°51	29°R 5	25° 8	8°13	15°29	10° 3	11°19	16°29	4° 3	S 12
S 13	1 25 31	19°29'03	16°43	1°29	15°31	28°15	14° 0	29° 5	25° 7	8°13	15°30	10°R 4	11°16	16°35	4° 6	S 13
M14	1 29 28	20°28'27	29°33	2°31	15°24	28°54	14° 8	29° 5	25° 6	8°12	15°32	10° 3	11°13	16°42	4° 9	M14
T 15	1 33 25	21°27'53	12♂5	3°39	15°15	29°32	14°17	29° 4	25° 5	8°12	15°33	10° 1	11°10	16°49	4°12	T 15
W16	1 37 21	22°27'20	24°22	4°52	15° 4	0♂10	14°25	29° 4	25° 4	8°12	15°35	9°56	11° 6	16°55	4°15	W16
T 17	1 41 18	23°26'50	6♂29	6°11	14°50	0°48	14°33	29° 3	25° 3	8°12	15°36	9°50	11° 3	17° 2	4°18	T 17
F 18	1 45 14	24°26'21	18°29	7°33	14°34	1°27	14°42	29° 3	25° 2	8°12	15°38	9°42	11° 0	17° 9	4°21	F 18
S 19	1 49 11	25°25'54	0°V23	9° 0	14°15	2° 5	14°50	29° 2	25° 1	8°12	15°40	9°34	10°57	17°15	4°25	S 19
S 20	1 53 7	26°25'29	12°15	10°29	13°54	2°43	14°57	29° 1	25° 0	8°12	15°41	9°25	10°54	17°22	4°28	S 20
M21	1 57 4	27°25'06	24° 6	12° 1	13°31	3°22	15° 5	29° 0	25° 0	8°D12	15°43	9°17	10°50	17°29	4°31	M21
T 22	2 1 0	28°24'45	5♂58	13°36	13° 6	4° 0	15°13	28°59	24°59	8°12	15°45	9°11	10°47	17°36	4°35	T 22
W23	2 4 57	29°24'26	17°52	15°11	12°39	4°38	15°20	28°58	24°58	8°12	15°46	9° 7	10°44	17°42	4°39	W23
T 24	2 8 54	0♂24'09	29°51	16°49	12°10	5°16	15°27	28°57	24°58	8°12	15°48	9° 5	10°41	17°49	4°42	T 24
F 25	2 12 50	1°23'54	11♂57	18°27	11°40	5°55	15°35	28°55	24°57	8°12	15°50	9°D 4	10°38	17°56	4°46	F 25
S 26	2 16 47	2°23'41	24°13	20° 6	11° 8	6°33	15°42	28°54	24°57	8°12	15°52	9° 5	10°35	18° 2	4°50	S 26
S 27	2 20 43	3°23'31	6♂42	21°45	10°34	7°11	15°49	28°52	24°56	8°12	15°53	9° 7	10°31	18° 9	4°54	S 27
M28	2 24 40	4°23'23	19°28	23°25	10° 0	7°50	15°55	28°50	24°56	8°13	15°55	9° 8	10°28	18°16	4°57	M28
T 29	2 28 36	5°23'17	2♂35	25° 5	9°24	8°28	16° 2	28°48	24°55	8°13	15°57	9°R 9	10°25	18°22	5° 1	T 29
W30	2 32 33	6°23'13	16° 5	26°45	8°48	9° 6	16° 8	28°46	24°55	8°13	15°59	9° 9	10°22	18°29	5° 5	W30
T 31	2 36 29	7♂23'11	0♂0	28♂25	8♂12	9♂45	16♂15	28♂44	24♂55	8♂14	16♂1	9♂7	10♂19	18♂36	5♂10	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s 2	24n49	3n26	1s54	1s34	22s 3	6s20	4n44	1n 6	17n36	0n27	22n 8	1s19	13s47	0s46	18s 8
W 2	3 25	22 38	4 13	1 15	1 14	22 14	6 26	4 29	1 6	17 33	0 28	22 8	1 19	13 48	0 46	18 8
T 3	3 48	19 1	4 47	0 39	0 54	22 24	6 31	4 14	1 6	17 31	0 28	22 8	1 19	13 48	0 46	18 8
F 4	4 12	14 9	5 3	0 7	0 34	22 34	6 37	3 59	1 6	17 28	0 28	22 7	1 19	13 49	0 46	18 9
S 5	4 35	8 19	5 0	0n20	0 14	22 43	6 42	3 44	1 6	17 26	0 28	22 7	1 19	13 49	0 46	18 9
S 6	4 58	1 54	4 35	0 43	0n 4	22 51	6 46	3 28	1 6	17 23	0 28	22 7	1 19	13 50	0 46	18 9
M 7	5 21	4s41	3 51	1 0	0 22	22 58	6 51	3 13	1 6	17 20	0 28	22 7	1 19	13 50	0 46	18 9
T 8	5 44	10 57	2 50	1 12	0 38	23 4	6 55	2 58	1 6	17 18	0 29	22 7	1 19	13 50	0 46	18 9
W 9	6 7	16 29	1 39	1 18	0 52	23 9	6 58	2 42	1 5	17 15	0 29	22 7	1 19	13 51	0 46	18 9
T 10	6 30	20 54	0 23	1 19	1 6	23 13	7 1	2 27	1 5	17 13	0 29	22 7	1 19	13 51	0 46	18 9
F 11	6 52	23 56	0s53	1 15	1 17	23 16	7 4	2 12	1 5	17 11	0 29	22 7	1 19	13 52	0 46	18 9
S 12	7 15	25 26	2 3	1 6	1 27	23 18	7 7	1 57	1 5	17 8	0 29	22 7	1 19	13 52	0 46	18 9
S 13	7 37	25 26	3 4	0 53	1 36	23 18	7 9	1 41	1 5	17 6	0 29	22 7	1 19	13 52	0 46	18 10
M14	8 0	24 4	3 55	0 35	1 44	23 18	7 10	1 26	1 5	17 4	0 30	22 7	1 19	13 53	0 46	18 10
T 15	8 22	21 31	4 32	0 14	1 50	23 16	7 11	1 10	1 5	17 1	0 30	22 7	1 19	13 53	0 46	18 10
W16	8 44	18 3	4 57	0s11	1 54	23 13	7 11	0 55	1 4	16 59	0 30	22 7	1 19	13 53	0 46	18 10
T 17	9 6	13 53	5 7	0 39	1 58	23 8	7 11	0 40	1 4	16 57	0 30	22 7	1 19	13 53	0 46	18 10
F 18	9 28	9 13	5 4	1 9	2 0	23 2	7 10	0 24	1 4	16 55	0 30	22 7	1 19	13 54	0 46	18 10
S 19	9 50	4 15	4 48	1 42	2 2	22 55	7 8	0 9	1 4	16 52	0 30	22 7	1 20	13 54	0 46	18 10
S 20	10 12	0n52	4 19	2 17	2 2	22 46	7 5	0s 6	1 4	16 50	0 31	22 7	1 20	13 54	0 46	18 10
M21	10 33	5 57	3 39	2 53	2 2	22 36	7 2	0 22	1 4	16 48	0 31	22 7	1 20	13 54	0 46	18 10
T 22	10 55	10 50	2 50	3 31	2 0	22 24	6 58	0 37	1 3	16 46	0 31	22 6	1 20	13 55	0 46	18 10
W23	11 16	15 21	1 53	4 10	1 58	22 11	6 54	0 52	1 3	16 44	0 31	22 6	1 20	13 55	0 45	18 10
T 24	11 37	19 18	0 50	4 49	1 56	21 57	6 48	1 8	1 3	16 42	0 31	22 6	1 20	13 55	0 45	18 10
F 25	11 58	22 29	0n16	5 30	1 53	21 41	6 42	1 23	1 3	16 40	0 32	22 6	1 20	13 55	0 45	18 10
S 26	12 18	24 40	1 22	6 10	1 49	21 24	6 35	1 38	1 3	16 38	0 32	22 6	1 20	13 55	0 45	18 10
S 27	12 39	25 41	2 25	6 51	1 45	21 6	6 27	1 54	1 2	16 36	0 32	22 6	1 20	13 55	0 45	18 10
M28	12 59	25 22	3 23	7 33	1 40	20 47	6 18	2 9	1 2	16 35	0 32	22 6	1 20	13 55	0 45	18 10
T 29	13 19	23 40	4 12	8 14	1 35	20 26	6 9	2 24	1 2	16 33	0 32	22 6	1 20	13 55	0 45	18 10
W30	13 39	20 36	4 48	8 55	1 30	20 5	5 58	2 40	1 2	16 31	0 32	22 6	1 20	13 56	0 45	18 10
T 31	13s59	16n17	5n 9	9s36	1n25	19s43	5s47	2s55	1n 2	16n29	0n33	22n 6	1s20	13s56	0s45	18s10

Julian Day Number = 2452548.5, Delta T = 64.44 sec  
 Ecliptic obliquity = 23°26'24", Nutation = - 0°00'17", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°46'43", Lahiri = 23°53'44"

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

NOVEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 40 26	8♍23'12	14♏21	0♍ 5	7°R35	10♌23	16♏21	28°R42	24°R55	8♌14	16♏ 3	9°R 4	10♏16	18°Y42	5♌14	F 1
S 2	2 44 23	9°23'14	29° 5	1°45	6♍59	11° 2	16°27	28♏40	24♌55	8°14	16° 5	9♏ 0	10°12	18°49	5°18	S 2
S 3	2 48 19	10°23'19	14♌ 6	3°25	6°23	11°40	16°33	28°38	24°55	8°15	16° 7	8°56	10° 9	18°56	5°22	S 3
M 4	2 52 16	11°23'26	29°16	5° 4	5°47	12°18	16°38	28°35	24°D54	8°15	16° 9	8°52	10° 6	19° 3	5°27	M 4
T 5	2 56 12	12°23'34	14♍24	6°43	5°13	12°57	16°44	28°33	24°55	8°16	16°11	8°49	10° 3	19° 9	5°31	T 5
W 6	3 0 9	13°23'45	29°22	8°22	4°39	13°35	16°49	28°30	24°55	8°16	16°13	8°47	10° 0	19°16	5°35	W 6
T 7	3 4 5	14°23'57	14♏ 1	10° 0	4° 7	14°13	16°54	28°27	24°55	8°17	16°15	8°D47	9°56	19°23	5°40	T 7
F 8	3 8 2	15°24'11	28°16	11°38	3°36	14°52	16°59	28°24	24°55	8°17	16°17	8°48	9°53	19°29	5°44	F 8
S 9	3 11 58	16°24'27	12♌ 3	13°16	3° 6	15°30	17° 4	28°21	24°55	8°18	16°19	8°50	9°50	19°36	5°49	S 9
S 10	3 15 55	17°24'44	25°24	14°53	2°39	16° 9	17° 9	28°18	24°55	8°19	16°21	8°51	9°47	19°43	5°54	S 10
M 11	3 19 52	18°25'02	8♌20	16°30	2°13	16°47	17°13	28°15	24°56	8°20	16°23	8°52	9°44	19°49	5°58	M 11
T 12	3 23 48	19°25'22	20°55	18° 7	1°50	17°26	17°18	28°12	24°56	8°20	16°25	8°R52	9°41	19°56	6° 3	T 12
W 13	3 27 45	20°25'43	3♏12	19°43	1°28	18° 4	17°22	28° 9	24°56	8°21	16°27	8°52	9°37	20° 3	6° 8	W 13
T 14	3 31 41	21°26'06	15°17	21°19	1° 9	18°42	17°26	28° 5	24°57	8°22	16°29	8°50	9°34	20° 9	6°13	T 14
F 15	3 35 38	22°26'30	27°13	22°55	0°52	19°21	17°29	28° 2	24°57	8°23	16°31	8°48	9°31	20°16	6°18	F 15
S 16	3 39 34	23°26'55	9°Y 4	24°30	0°38	19°59	17°33	27°58	24°58	8°24	16°33	8°46	9°28	20°23	6°23	S 16
S 17	3 43 31	24°27'22	20°55	26° 5	0°26	20°38	17°36	27°55	24°59	8°24	16°35	8°43	9°25	20°30	6°28	S 17
M 18	3 47 27	25°27'50	2♌47	27°40	0°17	21°16	17°40	27°51	24°59	8°25	16°38	8°41	9°22	20°36	6°33	M 18
T 19	3 51 24	26°28'20	14°43	29°15	0°10	21°55	17°43	27°47	25° 0	8°26	16°40	8°40	9°18	20°43	6°38	T 19
W 20	3 55 21	27°28'51	26°46	0♏49	0° 5	22°33	17°46	27°43	25° 1	8°27	16°42	8°39	9°15	20°50	6°43	W 20
T 21	3 59 17	28°29'24	8♏56	2°23	0°D 3	23°12	17°48	27°39	25° 2	8°28	16°44	8°D39	9°12	20°56	6°48	T 21
F 22	4 3 14	29°29'58	21°16	3°57	0° 4	23°50	17°51	27°35	25° 3	8°29	16°46	8°39	9° 9	21° 3	6°54	F 22
S 23	4 7 10	0♌30'34	3♌47	5°31	0° 7	24°29	17°53	27°31	25° 3	8°31	16°49	8°39	9° 6	21°10	6°59	S 23
S 24	4 11 7	1°31'12	16°30	7° 5	0°12	25° 7	17°55	27°27	25° 4	8°32	16°51	8°40	9° 2	21°16	7° 4	S 24
M 25	4 15 3	2°31'51	29°27	8°38	0°20	25°46	17°57	27°23	25° 6	8°33	16°53	8°41	8°59	21°23	7° 9	M 25
T 26	4 19 0	3°32'31	12♏11	10°11	0°30	26°24	17°59	27°19	25° 7	8°34	16°55	8°41	8°56	21°30	7°15	T 26
W 27	4 22 56	4°33'14	26°11	11°45	0°42	27° 3	18° 1	27°14	25° 8	8°35	16°58	8°42	8°53	21°36	7°20	W 27
T 28	4 26 53	5°33'58	9♏59	13°18	0°56	27°41	18° 2	27°10	25° 9	8°36	17° 0	8°R42	8°50	21°43	7°26	T 28
F 29	4 30 50	6°34'43	24° 6	14°51	1°12	28°20	18° 3	27° 6	25°10	8°38	17° 2	8°42	8°47	21°50	7°31	F 29
S 30	4 34 46	7♏35'30	8♌29	16♏23	1♍31	28♌58	18♏ 4	27♏ 1	25♌11	8♌39	17♏ 4	8♏42	8♏43	21°Y57	7♌37	S 30

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s18	10n57	5n11	10s16	1n19	19s20	5s36	3s10	1n 1	16n28	0n33	22n 6	1s20	13s56	0s45	18s 9	0n 3	13s25	9n20	21n49	21n59	3n36	17s 6	6n15			
S 2	14 37	4 51	4 54	10 57	1 13	18 56	5 23	3 25	1 1	16 26	0 33	22 6	1 20	13 56	0 45	18 9	0 3	13 26	9 20	21 48	21 59	3 39	17 6	6 15			
S 3	14 56	1s37	4 16	11 36	1 7	18 32	5 11	3 41	1 1	16 24	0 33	22 6	1 20	13 56	0 45	18 9	0 3	13 26	9 19	21 47	21 58	3 42	17 6	6 14			
M 4	15 15	8 5	3 20	12 16	1 0	18 7	4 57	3 56	1 1	16 23	0 33	22 6	1 20	13 56	0 45	18 9	0 3	13 27	9 19	21 47	21 58	3 45	17 6	6 14			
T 5	15 33	14 5	2 10	12 55	0 54	17 42	4 43	4 11	1 1	16 21	0 34	22 6	1 20	13 56	0 45	18 9	0 3	13 27	9 19	21 46	21 57	3 48	17 6	6 13			
W 6	15 52	19 11	0 52	13 33	0 47	17 17	4 29	4 26	1 0	16 20	0 34	22 6	1 20	13 56	0 45	18 9	0 3	13 28	9 19	21 46	21 57	3 51	17 7	6 13			
T 7	16 10	22 58	0s29	14 10	0 41	16 53	4 15	4 41	1 0	16 19	0 34	22 6	1 20	13 55	0 45	18 9	0 3	13 28	9 18	21 46	21 56	3 54	17 7	6 13			
F 8	16 27	25 11	1 45	14 47	0 34	16 28	4 0	4 56	1 0	16 17	0 34	22 6	1 20	13 55	0 45	18 9	0 3	13 29	9 18	21 46	21 56	3 57	17 7	6 12			
S 9	16 45	25 46	2 53	15 23	0 27	16 4	3 45	5 11	1 0	16 16	0 34	22 6	1 20	13 55	0 45	18 8	0 3	13 29	9 18	21 46	21 56	4 0	17 7	6 12			
S 10	17 2	24 49	3 49	15 58	0 21	15 40	3 29	5 26	0 59	16 15	0 35	22 5	1 20	13 55	0 45	18 8	0 3	13 29	9 18	21 47	21 55	4 3	17 7	6 12			
M11	17 19	22 33	4 32	16 33	0 14	15 17	3 14	5 41	0 59	16 14	0 35	22 5	1 20	13 55	0 45	18 8	0 3	13 30	9 17	21 47	21 55	4 6	17 7	6 11			
T 12	17 35	19 16	5 0	17 7	0 7	14 54	2 59	5 56	0 59	16 13	0 35	22 5	1 20	13 55	0 45	18 8	0 3	13 30	9 17	21 47	21 54	4 9	17 7	6 11			
W13	17 51	15 12	5 14	17 40	0 0	14 32	2 43	6 11	0 59	16 12	0 35	22 5	1 20	13 55	0 45	18 8	0 3	13 31	9 17	21 47	21 54	4 12	17 7	6 11			
T 14	18 7	10 37	5 14	18 12	0s 6	14 11	2 28	6 26	0 58	16 11	0 36	22 5	1 20	13 54	0 45	18 8	0 3	13 31	9 17	21 47	21 53	4 15	17 7	6 11			
F 15	18 23	5 41	5 0	18 43	0 13	13 51	2 13	6 41	0 58	16 10	0 36	22 5	1 20	13 54	0 45	18 7	0 3	13 32	9 16	21 46	21 53	4 18	17 8	6 10			
S 16	18 38	0 35	4 33	19 13	0 20	13 32	1 58	6 55	0 58	16 9	0 36	22 5	1 20	13 54	0 45	18 7	0 3	13 32	9 16	21 46	21 52	4 21	17 8	6 10			
S 17	18 53	4n32	3 54	19 42	0 26	13 14	1 43	7 10	0 58	16 8	0 36	22 5	1 20	13 54	0 45	18 7	0 3	13 32	9 16	21 45	21 52	4 24	17 8	6 10			
M18	19 8	9 32	3 6	20 10	0 33	12 57	1 29	7 25	0 57	16 7	0 36	22 5	1 20	13 54	0 45	18 7	0 3	13 33	9 16	21 45	21 51	4 27	17 8	6 9			
T 19	19 22	14 12	2 9	20 38	0 39	12 41	1 14	7 39	0 57	16 6	0 37	22 5	1 20	13 53	0 45	18 6	0 3	13 33	9 16	21 45	21 51	4 30	17 8	6 9			
W20	19 36	18 22	1 5	21 4	0 45	12 27	1 1	7 54	0 57	16 6	0 37	22 5	1 20	13 53	0 44	18 6	0 3	13 34	9 15	21 45	21 50	4 33	17 8	6 9			
T 21	19 49	21 49	0n 2	21 29	0 52	12 13	0 47	8 8	0 57	16 5	0 37	22 5	1 20	13 53	0 44	18 6	0 3	13 34	9 15	21 45	21 50	4 36	17 8	6 9			
F 22	20 3	24 18	1 9	21 53	0 58	12 1	0 34	8 23	0 56	16 4	0 37	22 5	1 20	13 52	0 44	18 6	0 3	13 34	9 15	21 45	21 49	4 39	17 8	6 8			
S 23	20 15	25 38	2 15	22 16	1 4	11 50	0 21	8 37	0 56	16 4	0 37	22 5	1 20	13 52	0 44	18 5	0 3	13 35	9 15	21 45	21 49	4 43	17 8	6 8			
S 24	20 28	25 39	3 15	22 38	1 10	11 40	0 8	8 51	0 56	16 3	0 38	22 5	1 20	13 52	0 44	18 5	0 3	13 35	9 15	21 45	21 48	4 46	17 8	6 8			
M25	20 40	24 17	4 6	22 59	1 15	11 31	0n 4	9 6	0 55	16 3	0 38	22 5	1 20	13 51	0 44	18 5	0 3	13 36	9 15	21 45	21 48	4 49	17 8	6 8			
T 26	20 52	21 34	4 45	23 19	1 21	11 24	0 16	9 20	0 55	16 3	0 38	22 5	1 20	13 51	0 44	18 5	0 3	13 36	9 14	21 45	21 47	4 52	17 7	6 8			
W27	21 3	17 39	5 10	23 37	1 26	11 17	0 27	9 34	0 55	16 3	0 38	22 5	1 20	13 50	0 44	18 4	0 3	13 36	9 14	21 45	21 47	4 55	17 7	6 7			
T 28	21 14	12 43	5 17	23 54	1 31	11 12	0 38	9 48	0 54	16 2	0 39	22 5	1 20	13 50	0 44	18 4	0 3	13 37	9 14	21 45	21 46	4 58	17 7	6 7			
F 29	21 24	7 2	5 6	24 10	1 36	11 8	0 49	10 2	0 54	16 2	0 39	22 4	1 20	13 50	0 44	18 4	0 3	13 37	9 14	21 45	21 46	5 1	17 7	6 7			
S 30	21s35	0n52	4n36	24s25	1s41	11s 5	0n59	10s16	0n54	16n 2	0n39	22n 4	1s20	13s49	0s44	18s 3	0n 3	13s37	9n14	21n45	21n45	5n 4	17s 7	6n 7			

# ASTRODIENST EPHEMERIS for the year 2002

## geocentric

DECEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 43	8°36'18	23°56' 6	17°56' 56	11°51' 51	29°37' 37	18°52' 5	26°R57	25°13' 13	8°40' 40	17°7' 7	8°D41	8°II40	22°Y 3	7°42' 42	S 1
M 2	4 42 39	9°37'08	7°11'51	19°29' 29	2°14' 14	0°11'15	18°6' 6	26°II52	25°14' 14	8°42' 42	17°9' 9	8°II42	8°37' 37	22°10' 10	7°48' 48	M 2
T 3	4 46 36	10°38'00	22°39' 39	21°1' 1	2°38' 38	0°54' 54	18°6' 6	26°47' 47	25°16' 16	8°43' 43	17°11' 11	8°42' 42	8°34' 34	22°17' 17	7°54' 54	T 3
W 4	4 50 32	11°38'53	7°22'22	22°34' 34	3°4' 4	1°33' 33	18°6' 6	26°43' 43	25°17' 17	8°44' 44	17°13' 13	8°R42	8°31' 31	22°23' 23	7°59' 59	W 4
T 5	4 54 29	12°39'47	21°53' 53	24°6' 6	3°32' 32	2°11' 11	18°R 6	26°38' 38	25°19' 19	8°46' 46	17°16' 16	8°42' 42	8°28' 28	22°30' 30	8°5' 5	T 5
F 6	4 58 26	13°40'42	6°3' 6	25°38' 38	4°1' 1	2°50' 50	18°6' 6	26°33' 33	25°20' 20	8°47' 47	17°18' 18	8°41' 41	8°24' 24	22°37' 37	8°11' 11	F 6
S 7	5 2 22	14°41'37	19°56' 56	27°10' 10	4°32' 32	3°28' 28	18°6' 6	26°28' 28	25°22' 22	8°49' 49	17°20' 20	8°41' 41	8°21' 21	22°43' 43	8°16' 16	S 7
S 8	5 6 19	15°42'34	3°23'23	28°42' 42	5°4' 4	4°7' 7	18°5' 5	26°24' 24	25°23' 23	8°50' 50	17°23' 23	8°40' 40	8°18' 18	22°50' 50	8°22' 22	S 8
M 9	5 10 15	16°43'32	16°25' 25	0°3'14	5°38' 38	4°45' 45	18°4' 4	26°19' 19	25°25' 25	8°52' 52	17°25' 25	8°39' 39	8°15' 15	22°57' 57	8°28' 28	M 9
T 10	5 14 12	17°44'30	29°5' 5	1°45' 45	6°14' 14	5°24' 24	18°3' 3	26°14' 14	25°27' 27	8°54' 54	17°27' 27	8°38' 38	8°12' 12	23°3' 3	8°34' 34	T 10
W 11	5 18 8	18°45'28	11°26'26	3°16' 16	6°50' 50	6°3' 3	18°2' 2	26°9' 9	25°29' 29	8°55' 55	17°30' 30	8°37' 37	8°8' 8	23°10' 10	8°40' 40	W 11
T 12	5 22 5	19°46'27	23°32' 32	4°47' 47	7°28' 28	6°41' 41	18°1' 1	26°4' 4	25°30' 30	8°57' 57	17°32' 32	8°D37	8°5' 5	23°17' 17	8°45' 45	T 12
F 13	5 26 1	20°47'27	5°Y28	6°17' 17	8°8' 8	7°20' 20	17°59' 59	25°59' 59	25°32' 32	8°58' 58	17°34' 34	8°38' 38	8°2' 2	23°23' 23	8°51' 51	F 13
S 14	5 29 58	21°48'28	17°19' 19	7°47' 47	8°48' 48	7°58' 58	17°57' 57	25°54' 54	25°34' 34	9°0' 0	17°36' 36	8°39' 39	7°59' 59	23°30' 30	8°57' 57	S 14
S 15	5 33 55	22°49'28	29°9' 9	9°16' 16	9°30' 30	8°37' 37	17°55' 55	25°49' 49	25°36' 36	9°2' 2	17°39' 39	8°40' 40	7°56' 56	23°37' 37	9°3' 3	S 15
M 16	5 37 51	23°50'30	11°3' 3	10°44' 44	10°13' 13	9°16' 16	17°53' 53	25°44' 44	25°38' 38	9°4' 4	17°41' 41	8°42' 42	7°53' 53	23°43' 43	9°9' 9	M 16
T 17	5 41 48	24°51'32	23°4' 4	12°11' 11	10°56' 56	9°54' 54	17°51' 51	25°40' 40	25°40' 40	9°5' 5	17°43' 43	8°43' 43	7°49' 49	23°50' 50	9°15' 15	T 17
W 18	5 45 44	25°52'35	5°II15	13°38' 38	11°41' 41	10°33' 33	17°48' 48	25°35' 35	25°42' 42	9°7' 7	17°46' 46	8°R43	7°46' 46	23°57' 57	9°21' 21	W 18
T 19	5 49 41	26°53'38	17°38' 38	15°2' 2	12°27' 27	11°11' 11	17°46' 46	25°30' 30	25°44' 44	9°9' 9	17°48' 48	8°43' 43	7°43' 43	24°4' 4	9°27' 27	T 19
F 20	5 53 37	27°54'41	0°3'16	16°25' 25	13°14' 14	11°50' 50	17°43' 43	25°25' 25	25°47' 47	9°11' 11	17°50' 50	8°42' 42	7°40' 40	24°10' 10	9°33' 33	F 20
S 21	5 57 34	28°55'46	13°8' 8	17°47' 47	14°2' 2	12°29' 29	17°40' 40	25°20' 20	25°49' 49	9°12' 12	17°52' 52	8°40' 40	7°37' 37	24°17' 17	9°39' 39	S 21
S 22	6 1 30	29°56'51	26°14' 14	19°6' 6	14°51' 51	13°7' 7	17°36' 36	25°15' 15	25°51' 51	9°14' 14	17°55' 55	8°37' 37	7°34' 34	24°24' 24	9°45' 45	S 22
M 23	6 5 27	0°3'57	9°23'4	20°22' 22	15°40' 40	13°46' 46	17°33' 33	25°10' 10	25°53' 53	9°16' 16	17°57' 57	8°33' 33	7°30' 30	24°30' 30	9°51' 51	M 23
T 24	6 9 24	1°59'02	23°7' 7	21°35' 35	16°31' 31	14°25' 25	17°29' 29	25°5' 5	25°56' 56	9°18' 18	17°59' 59	8°30' 30	7°27' 27	24°37' 37	9°57' 57	T 24
W 25	6 13 20	3°0'09	6°11'50	22°44' 44	17°22' 22	15°3' 3	17°25' 25	25°0' 0	25°58' 58	9°20' 20	18°1' 1	8°27' 27	7°24' 24	24°44' 44	10°3' 3	W 25
T 26	6 17 17	4°1'16	20°44' 44	23°50' 50	18°14' 14	15°42' 42	17°21' 21	24°55' 55	26°1' 1	9°22' 22	18°4' 4	8°25' 25	7°21' 21	24°50' 50	10°9' 9	T 26
F 27	6 21 13	5°2'24	4°4'46	24°50' 50	19°7' 7	16°21' 21	17°17' 17	24°50' 50	26°3' 3	9°24' 24	18°6' 6	8°D24	7°18' 18	24°57' 57	10°15' 15	F 27
S 28	6 25 10	6°3'33	18°55' 55	25°45' 45	20°0' 0	16°59' 59	17°13' 13	24°46' 46	26°5' 5	9°26' 26	18°8' 8	8°25' 25	7°14' 14	25°4' 4	10°21' 21	S 28
S 29	6 29 6	7°4'42	3°11'10	26°33' 33	20°54' 54	17°38' 38	17°8' 8	24°41' 41	26°8' 8	9°28' 28	18°10' 10	8°26' 26	7°11' 11	25°10' 10	10°27' 27	S 29
M 30	6 33 3	8°5'52	17°28' 28	27°14' 14	21°49' 49	18°17' 17	17°3' 3	24°36' 36	26°11' 11	9°30' 30	18°12' 12	8°28' 28	7°8' 8	25°17' 17	10°33' 33	M 30
T 31	6 36 59	9°3'70	1°2'47	27°3'47	22°11'44	18°11'55	16°52'58	24°11'31	26°11'31	9°32'32	18°15'15	8°R29	7°11'11	25°17'17	10°33'33	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	21s44	5s27	3n47	24s39	1s46	11s 2	1n 9	10s30	0n54	16n 2	0n39	22n 4	1s20	13s49	0s44	S 1
M 2	21 54	11 33	2 43	24 51	1 50	11 1	1 18	10 44	0 53	16 2	0 40	22 4	1 20	13 48	0 44	M 2
T 3	22 2	17 1	1 28	25 2	1 54	11 1	1 27	10 58	0 53	16 2	0 40	22 4	1 20	13 48	0 44	T 3
W 4	22 11	21 25	0 7	25 11	1 58	11 2	1 36	11 11	0 53	16 2	0 40	22 4	1 20	13 47	0 44	W 4
T 5	22 19	24 24	1s13	25 20	2 1	11 3	1 44	11 25	0 52	16 3	0 40	22 4	1 20	13 47	0 44	T 5
F 6	22 27	25 44	2 26	25 27	2 5	11 6	1 52	11 38	0 52	16 3	0 40	22 4	1 20	13 46	0 44	F 6
S 7	22 34	25 25	3 30	25 32	2 7	11 9	2 0	11 52	0 51	16 3	0 41	22 4	1 20	13 45	0 44	S 7
S 8	22 40	23 36	4 19	25 36	2 10	11 13	2 7	12 5	0 51	16 4	0 41	22 4	1 20	13 45	0 44	S 8
M 9	22 47	20 35	4 54	25 39	2 12	11 18	2 14	12 19	0 51	16 4	0 41	22 4	1 19	13 44	0 44	M 9
T 10	22 52	16 40	5 13	25 40	2 14	11 23	2 21	12 32	0 50	16 5	0 41	22 4	1 19	13 44	0 44	T 10
W 11	22 58	12 9	5 17	25 40	2 16	11 29	2 27	12 45	0 50	16 5	0 42	22 4	1 19	13 43	0 44	W 11
T 12	23 3	7 15	5 6	25 38	2 17	11 36	2 33	12 58	0 50	16 6	0 42	22 4	1 19	13 42	0 44	T 12
F 13	23 7	2 10	4 43	25 35	2 17	11 43	2 38	13 11	0 49	16 6	0 42	22 4	1 19	13 42	0 44	F 13
S 14	23 11	2n59	4 8	25 30	2 17	11 51	2 44	13 24	0 49	16 7	0 42	22 4	1 19	13 41	0 44	S 14
S 15	23 15	8 1	3 22	25 24	2 17	11 59	2 49	13 37	0 49	16 8	0 42	22 3	1 19	13 40	0 44	S 15
M 16	23 18	12 48	2 27	25 16	2 16	12 8	2 53	13 49	0 48	16 9	0 43	22 3	1 19	13 40	0 44	M 16
T 17	23 20	17 9	1 26	25 7	2 15	12 18	2 58	14 2	0 48	16 10	0 43	22 3	1 19	13 39	0 44	T 17
W 18	23 23	20 52	0 19	24 56	2 13	12 27	3 2	14 14	0 47	16 11	0 43	22 3	1 19	13 38	0 44	W 18
T 19	23 24	23 41	0n49	24 44	2 10	12 38	3 6	14 27	0 47	16 12	0 43	22 3	1 19	13 37	0 44	T 19
F 20	23 25	25 23	1 56	24 31	2 6	12 48	3 9	14 39	0 46	16 13	0 44	22 3	1 19	13 37	0 43	F 20
S 21	23 26	25 45	2 59	24 17	2 2	12 59	3 13	14 51	0 46	16 14	0 44	22 3	1 18	13 36	0 43	S 21
S 22	23 26	24 43	3 53	24 1	1 57	13 10	3 16	15 3	0 46	16 15	0 44	22 3	1 18	13 35	0 43	S 22
M 23	23 26	22 16	4 35	23 44	1 51	13 22	3 18	15 15	0 45	16 17	0 44	22 3	1 18	13 34	0 43	M 23
T 24	23 25	18 35	5 3	23 26	1 44	13 34	3 21	15 27	0 45	16 18	0 45	22 3	1 18	13 33	0 43	T 24
W 25	23 24	13 51	5 14	23 7	1 37	13 46	3 23	15 39	0 44	16 19	0 45	22 3	1 18	13 33	0 43	W 25
T 26	23 23	8 23	5 7	22 47	1 28	13 58	3 25	15 50	0 44	16 21	0 45	22 3	1 18	13 32	0 43	T 26
F 27	23 21	2 25	4 42	22 27	1 18	14 11	3 27	16 2	0 43	16 22	0 45	22 3	1 18	13 31	0 43	F 27
S 28	23 18	3s43	3 59	22 6	1 7	14 23	3 29	16 13	0 43	16 24	0 45	22 3	1 18	13 30	0 43	S 28
S 29	23 15	9 43	3 2	21 45	0 55	14 36	3 30	16 25	0 43	16 25	0 46	22 3	1 17	13 29	0 43	S 29
M 30	23 12	15 14	1 53	21 24	0 42	14 49	3 31	16 36	0 42	16 27	0 46	22 2	1 17	13 28	0 43	M 30
T 31	23s 8	19s55	0n37	21s 3	0s28	15s 2	3n32	16s47	0n42	16n29	0n46	22n 2	1s17	13s27	0s43	T 31

Julian Day Number = 2452609.5, Delta T = 64.46 sec  
 Ecliptic obliquity = 23°26'23", Nutation = - 0°00'17", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°46'52", Lahiri = 23°53'52"