



Astrodienst Ephemeris Tables for the year 1973

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 1973
geocentric

JANUARY 1973

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	6 42 1	10♌26'09	0♊34	24♋37	16♌30	0♊54	17♌49	15°R18	22♎45	6♋14	4♌25	16°R48	17♌15	4♋52	12♋53	M 1
T 2	6 45 57	11°27'19	12°23	26° 6	17°45	1°35	18° 3	15♊14	22°46	6°16	4°25	16♌47	17°12	4°59	12°53	T 2
W 3	6 49 54	12°28'31	24°16	27°35	19° 0	2°16	18°17	15°10	22°47	6°18	4°25	16°47	17° 9	5° 5	12°54	W 3
T 4	6 53 51	13°29'42	6♋15	29° 5	20°15	2°57	18°31	15° 6	22°49	6°20	4°26	16°46	17° 6	5°12	12°55	T 4
F 5	6 57 47	14°30'53	18°22	0♌35	21°30	3°38	18°45	15° 2	22°50	6°22	4°26	16°D46	17° 2	5°19	12°55	F 5
S 6	7 1 44	15°32'04	0♋38	2° 6	22°45	4°19	18°59	14°58	22°51	6°24	4°R26	16°46	16°59	5°25	12°56	S 6
S 7	7 5 40	16°33'15	13° 4	3°37	24° 0	4°59	19°13	14°54	22°52	6°25	4°26	16°R47	16°56	5°32	12°57	S 7
M 8	7 9 37	17°34'25	25°43	5° 8	25°15	5°40	19°27	14°50	22°53	6°27	4°26	16°46	16°53	5°39	12°57	M 8
T 9	7 13 33	18°35'35	8♋35	6°40	26°30	6°21	19°41	14°46	22°54	6°29	4°25	16°46	16°50	5°45	12°58	T 9
W10	7 17 30	19°36'45	21°42	8°12	27°45	7° 2	19°55	14°43	22°55	6°31	4°25	16°46	16°47	5°52	12°59	W10
T 11	7 21 26	20°37'54	5♋4	9°45	29° 0	7°44	20° 9	14°39	22°56	6°33	4°25	16°46	16°43	5°59	13° 0	T 11
F 12	7 25 23	21°39'03	18°44	11°18	0♌15	8°25	20°23	14°36	22°57	6°34	4°25	16°D46	16°40	6° 5	13° 1	F 12
S 13	7 29 20	22°40'10	2♋42	12°52	1°30	9° 6	20°37	14°33	22°58	6°36	4°25	16°46	16°37	6°12	13° 2	S 13
S 14	7 33 16	23°41'18	16°56	14°26	2°45	9°47	20°51	14°29	22°59	6°38	4°25	16°46	16°34	6°19	13° 3	S 14
M15	7 37 13	24°42'24	1♊25	16° 1	4° 0	10°28	21° 5	14°26	23° 0	6°39	4°24	16°47	16°31	6°26	13° 4	M15
T 16	7 41 9	25°43'30	16° 4	17°36	5°15	11° 9	21°19	14°23	23° 0	6°41	4°24	16°47	16°28	6°32	13° 6	T 16
W17	7 45 6	26°44'35	0♌50	19°11	6°30	11°50	21°33	14°20	23° 1	6°43	4°24	16°48	16°24	6°39	13° 7	W17
T 18	7 49 2	27°45'40	15°35	20°47	7°45	12°32	21°47	14°17	23° 1	6°44	4°23	16°R48	16°21	6°46	13° 8	T 18
F 19	7 52 59	28°46'44	0♊12	22°24	9° 0	13°13	22° 1	14°14	23° 2	6°46	4°23	16°48	16°18	6°52	13°10	F 19
S 20	7 56 55	29°47'47	14°35	24° 1	10°15	13°54	22°15	14°12	23° 2	6°47	4°22	16°47	16°15	6°59	13°11	S 20
S 21	8 0 52	0♋48'50	28°37	25°39	11°30	14°35	22°29	14° 9	23° 3	6°49	4°22	16°46	16°12	7° 6	13°12	S 21
M22	8 4 49	1°49'52	12♊17	27°17	12°45	15°17	22°43	14° 6	23° 3	6°50	4°21	16°44	16° 8	7°12	13°14	M22
T 23	8 8 45	2°50'53	25°32	28°56	14° 0	15°58	22°57	14° 4	23° 3	6°52	4°21	16°41	16° 5	7°19	13°16	T 23
W24	8 12 42	3°51'54	8♌23	0♋36	15°16	16°39	23°11	14° 2	23° 3	6°53	4°20	16°39	16° 2	7°26	13°17	W24
T 25	8 16 38	4°52'54	20°53	2°16	16°31	17°21	23°25	13°59	23° 4	6°55	4°20	16°38	15°59	7°32	13°19	T 25
F 26	8 20 35	5°53'54	3♊6	3°57	17°46	18° 2	23°39	13°57	23° 4	6°56	4°19	16°D37	15°56	7°39	13°21	F 26
S 27	8 24 31	6°54'54	15° 6	5°38	19° 1	18°44	23°53	13°55	23°R 4	6°58	4°18	16°37	15°53	7°46	13°22	S 27
S 28	8 28 28	7°55'52	26°58	7°20	20°16	19°25	24° 7	13°53	23° 4	6°59	4°18	16°38	15°49	7°52	13°24	S 28
M29	8 32 24	8°56'50	8♋46	9° 3	21°31	20° 7	24°20	13°52	23° 4	7° 0	4°17	16°40	15°46	7°59	13°26	M29
T 30	8 36 21	9°57'48	20°37	10°46	22°46	20°48	24°34	13°50	23° 4	7° 1	4°16	16°42	15°43	8° 6	13°28	T 30
W31	8 40 18	10°58'45	2♌33	12°30	24♌1	21♋30	24♌48	13°II48	23♎3	7♋3	4♌15	16♌43	15♌40	8♋12	13°V30	W31

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	23s 2	24s 1	3s49	23s21	0s 1	21s52	0n54	20s 5	0n16	22s26	0s10	21n 2	1s36	8s16
T 2	22 57	25 15	3 0	23 31	0 8	22 1	0 52	20 14	0 16	22 24	0 10	21 2	1 36	8 17
W 3	22 51	25 21	2 2	23 41	0 15	22 10	0 49	20 22	0 15	22 22	0 11	21 2	1 36	8 17
T 4	22 46	24 16	0 58	23 49	0 22	22 19	0 47	20 31	0 14	22 20	0 11	21 1	1 36	8 18
F 5	22 39	22 2	0n 9	23 56	0 29	22 26	0 44	20 39	0 14	22 19	0 11	21 1	1 36	8 18
S 6	22 32	18 47	1 16	24 2	0 36	22 33	0 42	20 48	0 13	22 17	0 11	21 1	1 35	8 19
S 7	22 25	14 38	2 21	24 6	0 43	22 39	0 39	20 56	0 12	22 15	0 11	21 1	1 35	8 19
M 8	22 17	9 49	3 20	24 9	0 49	22 45	0 37	21 4	0 12	22 13	0 11	21 0	1 35	8 19
T 9	22 9	4 29	4 10	24 12	0 55	22 50	0 34	21 11	0 11	22 11	0 11	21 0	1 35	8 20
W10	22 1	1n 7	4 48	24 12	1 1	22 54	0 31	21 19	0 10	22 9	0 11	21 0	1 35	8 20
T 11	21 52	6 46	5 11	24 12	1 7	22 58	0 29	21 26	0 10	22 7	0 11	21 0	1 34	8 20
F 12	21 42	12 14	5 17	24 10	1 12	23 0	0 26	21 34	0 9	22 5	0 11	21 0	1 34	8 21
S 13	21 32	17 11	5 5	24 7	1 18	23 3	0 24	21 41	0 8	22 3	0 11	20 59	1 34	8 21
S 14	21 22	21 17	4 35	24 2	1 23	23 4	0 21	21 48	0 8	22 1	0 12	20 59	1 34	8 21
M15	21 11	24 8	3 46	23 56	1 28	23 5	0 18	21 54	0 7	21 59	0 12	20 59	1 34	8 21
T 16	21 0	25 24	2 42	23 49	1 32	23 5	0 16	22 1	0 6	21 57	0 12	20 59	1 33	8 22
W17	20 49	24 54	1 28	23 40	1 37	23 4	0 13	22 7	0 6	21 55	0 12	20 59	1 33	8 22
T 18	20 37	22 39	0 7	23 30	1 41	23 3	0 10	22 13	0 5	21 53	0 12	20 59	1 33	8 22
F 19	20 24	18 55	1s14	23 18	1 45	23 1	0 8	22 19	0 4	21 50	0 12	20 59	1 33	8 22
S 20	20 12	14 6	2 28	23 5	1 48	22 58	0 5	22 25	0 4	21 48	0 12	20 58	1 33	8 22
S 21	19 59	8 39	3 31	22 50	1 51	22 54	0 3	22 30	0 3	21 46	0 12	20 58	1 32	8 22
M22	19 45	2 56	4 21	22 34	1 54	22 50	0s 0	22 36	0 2	21 44	0 12	20 58	1 32	8 23
T 23	19 32	2s44	4 55	22 17	1 57	22 45	0 3	22 41	0 1	21 42	0 12	20 58	1 32	8 23
W24	19 17	8 7	5 13	21 58	1 59	22 39	0 5	22 46	0 1	21 40	0 13	20 58	1 32	8 23
T 25	19 3	13 1	5 15	21 37	2 1	22 33	0 8	22 51	0s 0	21 37	0 13	20 58	1 31	8 23
F 26	18 48	17 17	5 3	21 15	2 3	22 26	0 10	22 55	0 1	21 35	0 13	20 58	1 31	8 23
S 27	18 33	20 48	4 38	20 52	2 4	22 18	0 13	22 59	0 2	21 33	0 13	20 58	1 31	8 23
S 28	18 17	23 23	4 1	20 27	2 5	22 10	0 15	23 4	0 2	21 30	0 13	20 58	1 31	8 23
M29	18 1	24 58	3 14	20 0	2 5	22 1	0 18	23 8	0 3	21 28	0 13	20 58	1 31	8 23
T 30	17 45	25 25	2 19	19 32	2 5	21 51	0 20	23 11	0 4	21 26	0 13	20 58	1 30	8 23
W31	17s29	24s43	1s17	19s 3	2s 4	21s41	0s23	23s15	0s 5	21s23	0s13	20n58	1s30	8s22

Julian Day Number = 2441683.5, Delta T = 43.37 sec
Ecliptic obliquity = 23°26'36", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°21'47", Lahiri = 23°28'48"

ASTRODIENST EPHEMERIS for the year 1973

geocentric

FEBRUARY 1973

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 14	11 ⁵⁹ 40	14 ³⁸	14 ¹⁵	25 ¹⁶	22 ¹¹	25 ²	13 ^{R47}	23 ^{R 3}	7 ⁴	4 ^{R15}	16 ^{R44}	15 ³⁷	8 ¹⁹	13 ³²	T 1
F 2	8 48 11	13° 0'35	26°56	16° 0	26°31	22°53	25°15	13 ^{II} 46	23 ³	7° 5	4 ¹⁴	16 ³⁴	15°34	8°26	13°34	F 2
S 3	8 52 7	14° 1'29	9 ²⁸	17°46	27°46	23°34	25°29	13°44	23° 2	7° 6	4°13	16°42	15°30	8°32	13°36	S 3
S 4	8 56 4	15° 2'22	22°14	19°33	29° 1	24°16	25°43	13°43	23° 2	7° 7	4°12	16°39	15°27	8°39	13°38	S 4
M 5	9 0 0	16° 3'13	5 ¹⁵	21°20	0 ¹⁷	24°58	25°56	13°42	23° 2	7° 8	4°11	16°34	15°24	8°46	13°40	M 5
T 6	9 3 57	17° 4'03	18°31	23° 7	1°32	25°39	26°10	13°41	23° 1	7° 9	4°10	16°29	15°21	8°52	13°42	T 6
W 7	9 7 53	18° 4'52	1 ⁵⁹	24°55	2°47	26°21	26°24	13°40	23° 1	7°11	4° 9	16°24	15°18	8°59	13°45	W 7
T 8	9 11 50	19° 5'39	15°39	26°43	4° 2	27° 3	26°37	13°40	23° 0	7°12	4° 8	16°19	15°14	9° 6	13°47	T 8
F 9	9 15 47	20° 6'25	29°29	28°32	5°17	27°45	26°51	13°39	22°59	7°12	4° 7	16°16	15°11	9°12	13°49	F 9
S 10	9 19 43	21° 7'09	13 ²⁷	0 ²⁰	6°32	28°26	27° 4	13°39	22°58	7°13	4° 6	16°14	15° 8	9°19	13°52	S 10
S 11	9 23 40	22° 7'52	27°33	2° 9	7°47	29° 8	27°18	13°38	22°58	7°14	4° 5	16°D14	15° 5	9°26	13°54	S 11
M12	9 27 36	23° 8'33	11 ^{II} 44	3°57	9° 2	29°50	27°31	13°38	22°57	7°15	4° 4	16°15	15° 2	9°32	13°57	M12
T 13	9 31 33	24° 9'12	25°59	5°45	10°17	0 ³²	27°44	13°38	22°56	7°16	4° 2	16°17	14°59	9°39	13°59	T 13
W14	9 35 29	25° 9'50	10 ²⁷	7°32	11°32	1°13	27°58	13°D38	22°55	7°17	4° 1	16°R18	14°55	9°46	14° 2	W14
T 15	9 39 26	26°10'26	24°33	9°17	12°47	1°55	28°11	13°38	22°54	7°18	4° 0	16°18	14°52	9°52	14° 4	T 15
F 16	9 43 22	27°11'00	8 ^{II} 44	11° 2	14° 2	2°37	28°24	13°38	22°53	7°18	3°59	16°16	14°49	9°59	14° 7	F 16
S 17	9 47 19	28°11'33	22°46	12°45	15°17	3°19	28°37	13°39	22°52	7°19	3°58	16°12	14°46	10° 6	14°10	S 17
S 18	9 51 16	29°12'04	6 ^{III} 34	14°25	16°32	4° 1	28°50	13°39	22°51	7°20	3°56	16° 6	14°43	10°12	14°12	S 18
M19	9 55 12	0 ^{II} 12'33	20° 5	16° 3	17°47	4°43	29° 3	13°40	22°50	7°20	3°55	15°58	14°40	10°19	14°15	M19
T 20	9 59 9	1°13'01	3 ¹⁷	17°37	19° 2	5°25	29°16	13°40	22°48	7°21	3°54	15°50	14°36	10°26	14°18	T 20
W21	10 3 5	2°13'28	16° 8	19° 7	20°17	6° 7	29°29	13°41	22°47	7°22	3°52	15°42	14°33	10°32	14°20	W21
T 22	10 7 2	3°13'53	28°40	20°33	21°32	6°49	29°42	13°42	22°46	7°22	3°51	15°35	14°30	10°39	14°23	T 22
F 23	10 10 58	4°14'17	10 ^{II} 55	21°54	22°47	7°31	29°55	13°43	22°44	7°23	3°50	15°30	14°27	10°46	14°26	F 23
S 24	10 14 55	5°14'39	22°56	23° 9	24° 2	8°13	0 ⁸	13°44	22°43	7°23	3°48	15°27	14°24	10°52	14°29	S 24
S 25	10 18 51	6°15'00	4 ^{II} 48	24°18	25°17	8°55	0°20	13°45	22°41	7°24	3°47	15°D26	14°20	10°59	14°32	S 25
M26	10 22 48	7°15'20	16°39	25°20	26°32	9°37	0°33	13°47	22°40	7°24	3°45	15°27	14°17	11° 6	14°35	M26
T 27	10 26 45	8°15'38	28°29	26°14	27°47	10°19	0°46	13°48	22°38	7°24	3°44	15°28	14°14	11°12	14°38	T 27
W28	10 30 41	9 ^{II} 15'55	10 ³ 27	27 ^{II} 0	29 ¹	11 ²	0 ⁵⁸	13 ^{II} 50	22 ³⁷	7 ²⁵	3 ⁴³	15°R29	14 ³ 11	11 ¹⁹	14 ⁴¹	W28

Day	☉	☾		♀		♀		♂		♂		♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s12	22s50	0s12	18s32	2s 3	21s30	0s25	23s18	0s 5	21s21	0s13	20n58	1s30	8s22	0n38	19s55	1n36	13n39	16n44	22s24	22s32	24s47	6n44	1n31	
F 2	16 55	19 52	0n56	17 59	2 2	21 18	0 28	23 21	0 6	21 19	0 14	20 58	1 30	8 22	0 38	19 55	1 36	13 40	16 45	22 24	22 32	24 47	6 45	1 31	
S 3	16 37	15 56	2 2	17 25	2 0	21 6	0 30	23 24	0 7	21 16	0 14	20 58	1 29	8 22	0 38	19 55	1 36	13 41	16 45	22 24	22 33	24 48	6 45	1 30	
S 4	16 20	11 13	3 3	16 49	1 58	20 53	0 32	23 27	0 8	21 14	0 14	20 59	1 29	8 22	0 38	19 55	1 36	13 42	16 46	22 24	22 33	24 48	6 46	1 30	
M 5	16 2	5 56	3 55	16 12	1 55	20 39	0 34	23 29	0 9	21 11	0 14	20 59	1 29	8 22	0 38	19 56	1 36	13 42	16 46	22 25	22 33	24 48	6 47	1 30	
T 6	15 43	0 18	4 36	15 34	1 51	20 25	0 37	23 32	0 9	21 9	0 14	20 59	1 29	8 21	0 38	19 56	1 36	13 43	16 47	22 26	22 34	24 49	6 48	1 30	
W 7	15 25	5n25	5 2	14 54	1 47	20 10	0 39	23 34	0 10	21 6	0 14	20 59	1 28	8 21	0 38	19 56	1 36	13 44	16 47	22 26	22 34	24 49	6 48	1 30	
T 8	15 6	10 57	5 12	14 13	1 42	19 55	0 41	23 36	0 11	21 4	0 14	20 59	1 28	8 21	0 38	19 56	1 36	13 45	16 48	22 27	22 34	24 49	6 49	1 30	
F 9	14 47	16 1	5 4	13 30	1 37	19 39	0 43	23 37	0 12	21 1	0 14	20 59	1 28	8 21	0 38	19 56	1 36	13 46	16 48	22 27	22 35	24 50	6 50	1 30	
S 10	14 28	20 17	4 38	12 46	1 31	19 23	0 45	23 39	0 13	20 59	0 14	20 59	1 28	8 20	0 38	19 56	1 36	13 46	16 49	22 27	22 35	24 50	6 51	1 30	
S 11	14 8	23 25	3 55	12 2	1 24	19 5	0 47	23 40	0 14	20 56	0 14	21 0	1 27	8 20	0 38	19 56	1 36	13 47	16 49	22 27	22 35	24 50	6 52	1 29	
M12	13 48	25 7	2 57	11 16	1 17	18 48	0 49	23 41	0 14	20 54	0 15	21 0	1 27	8 20	0 38	19 56	1 36	13 48	16 49	22 27	22 36	24 51	6 52	1 29	
T 13	13 28	25 11	1 48	10 29	1 9	18 30	0 51	23 42	0 15	20 51	0 15	21 0	1 27	8 19	0 38	19 56	1 37	13 49	16 50	22 27	22 36	24 51	6 53	1 29	
W14	13 8	23 35	0 33	9 41	1 1	18 11	0 53	23 42	0 16	20 49	0 15	21 0	1 27	8 19	0 38	19 57	1 37	13 50	16 50	22 27	22 36	24 51	6 54	1 29	
T 15	12 48	20 29	0s45	8 53	0 51	17 52	0 55	23 43	0 17	20 46	0 15	21 1	1 26	8 19	0 38	19 57	1 37	13 51	16 51	22 27	22 37	24 51	6 55	1 29	
F 16	12 27	16 10	1 59	8 4	0 41	17 32	0 57	23 43	0 18	20 44	0 15	21 1	1 26	8 18	0 39	19 57	1 37	13 51	16 51	22 27	22 37	24 52	6 56	1 29	
S 17	12 6	11 1	3 5	7 15	0 30	17 12	0 59	23 43	0 19	20 41	0 15	21 1	1 26	8 18	0 39	19 57	1 37	13 52	16 51	22 28	22 38	24 52	6 57	1 29	
S 18	11 45	5 24	3 59	6 26	0 19	16 51	1 1	23 43	0 20	20 39	0 15	21 1	1 26	8 17	0 39	19 57	1 37	13 53	16 52	22 28	22 38	24 52	6 58	1 29	
M19	11 24	0s20	4 38	5 37	0 7	16 30	1 2	23 42	0 20	20 36	0 15	21 2	1 26	8 17	0 39	19 57	1 37	13 54	16 52	22 29	22 38	24 53	6 59	1 28	
T 20	11 3	5 54	5 1	4 48	0n 6	16 8	1 4	23 41	0 21	20 34	0 16	21 2	1 25	8 16	0 39	19 57	1 37	13 55	16 52	22 30	22 39	24 53	7 0	1 28	
W21	10 41	11 5	5 8	4 1	0 19	15 46	1 6	23 40	0 22	20 31	0 16	21 2	1 25	8 16	0 39	19 57	1 37	13 56	16 53	22 31	22 39	24 53	7 1	1 28	
T 22	10 19	15 41	5 0	3 15	0 33	15 23	1 7	23 39	0 23	20 28	0 16	21 3	1 25	8 15	0 39	19 57	1 37	13 56	16 53	22 32	22 39	24 53	7 2	1 28	
F 23	9 57	19 31	4 39	2 30	0 47	15 0	1 9	23 38	0 24	20 26	0 16	21 3	1 25	8 15	0 39	19 57	1 37	13 57	16 53	22 33	22 40	24 54	7 3	1 28	
S 24	9 35	22 28	4 5	1 47	1 1	14 37	1 10	23 36	0 25	20 23	0 16	21 3	1 24	8 14	0 39	19 57	1 37	13 58	16 54	22 33	22 40	24 54	7 4	1 28	
S 25	9 13	24 24	3 21	1 6	1 16	14 13	1 11	23 34	0 26	20 21	0 16	21 4	1 24	8 14	0 39	19 57	1 37	13 59	16 54	22 33	22 40	24 54	7 5	1 28	
M26	8 51	25 15	2 29	0 28	1 31	13 49	1 13	23 32	0 27	20 18	0 16	21 4	1 24	8 13	0 39	19 57	1 37	14 0	16 54	22 33	22 41	24 54	7 6	1 28	
T 27	8 28	24 56	1 30	0n 7	1 45	13 24	1 14	23 30	0 28	20 15	0 16	21 5	1 24	8 13	0 39	19 57	1 37	14 1	16 55	22 33	22 41	24 54	7 7	1 28	
W28	8s 6	23s29	0s27	0n38	2n 0	12s59	1s15	23s28	0s29	20s13	0s17	21n 5	1s23	8s12	0n39	19s57	1n37	14n 1	16n55	22s33	22s41	24s55	7n 8	1n27	

Julian Day Number = 2441714.5, Delta T = 43.47 sec

Ecliptic obliquity = 23°26'36", Nutation = 0°00'18", out-of-bounds declination in red

ASTRODIENST EPHEMERIS for the year 1973

geocentric

MARCH 1973

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 34 38	10♈16'10	22♊36	27♋37	0♌16	11♍44	1♎11	13♏51	22°R35	7♐25	3°R41	15°R29	14♑8	11♒26	14♓44	T 1
F 2	10 38 34	11°16'23	5♋1	28°5	1°31	12°26	1°23	13°53	22♑33	7°25	3♒40	15♓27	14°5	11°32	14°47	F 2
S 3	10 42 31	12°16'35	17°45	28°25	2°46	13°8	1°35	13°55	22°32	7°26	3°38	15°22	14°1	11°39	14°50	S 3
S 4	10 46 27	13°16'45	0♌49	28°34	4°1	13°50	1°48	13°57	22°30	7°26	3°37	15°15	13°58	11°46	14°53	S 4
M 5	10 50 24	14°16'54	14°13	28°R35	5°16	14°33	2°0	13°59	22°28	7°26	3°35	15°6	13°55	11°52	14°56	M 5
T 6	10 54 20	15°17'00	27°55	28°26	6°31	15°15	2°12	14°1	22°26	7°26	3°34	14°56	13°52	11°59	14°59	T 6
W 7	10 58 17	16°17'05	11♑51	28°8	7°46	15°57	2°24	14°4	22°24	7°26	3°32	14°46	13°49	12°6	15°3	W 7
T 8	11 2 13	17°17'07	25°58	27°42	9°1	16°39	2°36	14°6	22°22	7°26	3°30	14°36	13°45	12°12	15°6	T 8
F 9	11 6 10	18°17'08	10♒9	27°8	10°15	17°22	2°48	14°9	22°21	7°26	3°29	14°29	13°42	12°19	15°9	F 9
S 10	11 10 7	19°17'06	24°22	26°28	11°30	18°4	3°0	14°11	22°19	7°R26	3°27	14°24	13°39	12°26	15°12	S 10
S 11	11 14 3	20°17'02	8♒34	25°41	12°45	18°46	3°11	14°14	22°17	7°26	3°26	14°21	13°36	12°32	15°15	S 11
M12	11 18 0	21°16'56	22°41	24°50	14°0	19°29	3°23	14°17	22°14	7°26	3°24	14°D21	13°33	12°39	15°19	M12
T 13	11 21 56	22°16'48	6♓44	23°55	15°15	20°11	3°34	14°20	22°12	7°26	3°22	14°R21	13°30	12°46	15°22	T 13
W14	11 25 53	23°16'38	20°41	22°58	16°29	20°53	3°46	14°23	22°10	7°26	3°21	14°21	13°26	12°52	15°25	W14
T 15	11 29 49	24°16'25	4♑32	22°1	17°44	21°36	3°57	14°26	22°8	7°26	3°19	14°19	13°23	12°59	15°29	T 15
F 16	11 33 46	25°16'10	18°16	21°3	18°59	22°18	4°9	14°29	22°6	7°26	3°18	14°15	13°20	13°6	15°32	F 16
S 17	11 37 43	26°15'53	1♑52	20°8	20°13	23°0	4°20	14°33	22°4	7°25	3°16	14°8	13°17	13°12	15°35	S 17
S 18	11 41 39	27°15'33	15°16	19°15	21°28	23°43	4°31	14°36	22°1	7°25	3°14	13°59	13°14	13°19	15°39	S 18
M19	11 45 36	28°15'12	28°29	18°25	22°43	24°25	4°42	14°40	21°59	7°25	3°13	13°47	13°11	13°26	15°42	M19
T 20	11 49 32	29°14'48	11♒26	17°40	23°58	25°8	4°53	14°43	21°57	7°24	3°11	13°34	13°7	13°32	15°46	T 20
W21	11 53 29	0♑14'23	24°8	17°0	25°12	25°50	5°4	14°47	21°55	7°24	3°9	13°21	13°4	13°39	15°49	W21
T 22	11 57 25	1°13'55	6♒34	16°26	26°27	26°33	5°14	14°51	21°52	7°24	3°8	13°10	13°1	13°46	15°52	T 22
F 23	12 1 22	2°13'26	18°46	15°57	27°41	27°15	5°25	14°55	21°50	7°23	3°6	13°1	12°58	13°52	15°56	F 23
S 24	12 5 18	3°12'55	0♒47	15°34	28°56	27°58	5°36	14°59	21°47	7°23	3°4	12°54	12°55	13°59	15°59	S 24
S 25	12 9 15	4°12'22	12°39	15°17	0♑11	28°40	5°46	15°3	21°45	7°22	3°3	12°50	12°51	14°6	16°3	S 25
M26	12 13 11	5°11'48	24°27	15°6	1°25	29°23	5°56	15°7	21°43	7°22	3°1	12°48	12°48	14°12	16°6	M26
T 27	12 17 8	6°11'12	6♓17	15°D 1	2°40	0♒5	6°7	15°11	21°40	7°21	2°59	12°48	12°45	14°19	16°10	T 27
W28	12 21 5	7°10'33	18°15	15°2	3°54	0°48	6°17	15°16	21°38	7°21	2°58	12°48	12°42	14°26	16°13	W28
T 29	12 25 1	8°9'54	0♒24	15°8	5°9	1°30	6°27	15°20	21°35	7°20	2°56	12°47	12°39	14°32	16°17	T 29
F 30	12 28 58	9°9'12	12°52	15°20	6°23	2°13	6°37	15°25	21°33	7°19	2°55	12°45	12°36	14°39	16°20	F 30
S 31	12 32 54	10♑8'28	25♒41	15♋37	7♌38	2♌56	6♎46	15♏29	21♑30	7♐19	2♑53	12♓39	12♑32	14♒46	16♓24	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
T 1	7s43	20s55	0n38	1n 6	2n14	12s34	1s16	23s25	0s30	20s10	0s17	21n 6	1s23	8s11	0n39	19s57	1n37	14n 2	16n55	22s33	22s42	24s55	7n 9	1n27	
F 2	7 20	17 21	1 43	1 30	2 28	12 9	1 18	23 22	0 31	20 8	0 17	21 6	1 23	8 11	0 39	19 57	1 37	14 3	16 55	22 33	22 42	24 55	7 10	1 27	
S 3	6 57	12 55	2 44	1 50	2 41	11 43	1 19	23 19	0 32	20 5	0 17	21 6	1 23	8 10	0 39	19 57	1 37	14 4	16 56	22 33	22 42	24 55	7 11	1 27	
S 4	6 34	7 47	3 38	2 5	2 53	11 16	1 20	23 16	0 32	20 2	0 17	21 7	1 22	8 9	0 39	19 57	1 37	14 5	16 56	22 34	22 43	24 55	7 12	1 27	
M 5	6 11	2 11	4 21	2 15	3 4	10 50	1 20	23 12	0 33	20 0	0 17	21 7	1 22	8 9	0 39	19 57	1 38	14 5	16 56	22 35	22 43	24 56	7 13	1 27	
T 6	5 48	3n37	4 51	2 21	3 14	10 23	1 21	23 9	0 34	19 57	0 17	21 8	1 22	8 8	0 39	19 57	1 38	14 6	16 56	22 36	22 43	24 56	7 14	1 27	
W 7	5 25	9 20	5 3	2 21	3 22	9 56	1 22	23 5	0 35	19 55	0 17	21 8	1 22	8 7	0 39	19 57	1 38	14 7	16 57	22 38	22 44	24 56	7 15	1 27	
T 8	5 1	14 39	4 58	2 17	3 29	9 28	1 23	23 0	0 36	19 52	0 18	21 9	1 21	8 7	0 39	19 57	1 38	14 8	16 57	22 39	22 44	24 56	7 17	1 27	
F 9	4 38	19 12	4 34	2 8	3 34	9 1	1 23	22 56	0 37	19 49	0 18	21 9	1 21	8 6	0 39	19 57	1 38	14 9	16 57	22 39	22 44	24 56	7 18	1 26	
S 10	4 15	22 38	3 53	1 55	3 37	8 33	1 24	22 51	0 38	19 47	0 18	21 10	1 21	8 5	0 39	19 57	1 38	14 10	16 57	22 40	22 45	24 56	7 19	1 26	
S 11	3 51	24 40	2 58	1 38	3 38	8 5	1 25	22 47	0 39	19 44	0 18	21 11	1 21	8 4	0 39	19 57	1 38	14 10	16 57	22 40	22 45	24 56	7 20	1 26	
M12	3 27	25 7	1 53	1 17	3 38	7 36	1 25	22 42	0 40	19 42	0 18	21 11	1 21	8 3	0 39	19 57	1 38	14 11	16 58	22 40	22 45	24 57	7 21	1 26	
T 13	3 4	23 57	0 40	0 52	3 35	7 8	1 25	22 37	0 41	19 39	0 18	21 12	1 20	8 3	0 39	19 57	1 38	14 12	16 58	22 40	22 46	24 57	7 22	1 26	
W14	2 40	21 18	0s34	0 25	3 30	6 39	1 26	22 31	0 42	19 37	0 18	21 12	1 20	8 2	0 39	19 57	1 38	14 13	16 58	22 40	22 46	24 57	7 24	1 26	
T 15	2 17	17 26	1 45	0s 4	3 23	6 10	1 26	22 26	0 43	19 34	0 18	21 13	1 20	8 1	0 39	19 57	1 38	14 13	16 58	22 40	22 46	24 57	7 25	1 26	
F 16	1 53	12 40	2 50	0 34	3 14	5 41	1 26	22 20	0 44	19 32	0 19	21 13	1 20	8 0	0 39	19 56	1 38	14 14	16 58	22 41	22 47	24 57	7 26	1 26	
S 17	1 29	7 20	3 44	1 5	3 4	5 12	1 26	22 14	0 46	19 29	0 19	21 14	1 19	7 59	0 39	19 56	1 38	14 15	16 58	22 42	22 47	24 57	7 27	1 26	
S 18	1 5	1 44	4 25	1 36	2 53	4 42	1 26	22 8	0 47	19 27	0 19	21 15	1 19	7 59	0 39	19 56	1 38	14 16	16 58	22 43	22 47	24 57	7 29	1 26	
M19	0 42	3s50	4 50	2 7	2 40	4 13	1 27	22 1	0 48	19 24	0 19	21 15	1 19	7 58	0 39	19 56	1 38	14 16	16 58	22 44	22 47	24 57	7 30	1 26	
T 20	0 18	9 8	5 1	2 37	2 27	3 43	1 26	21 55	0 49	19 22	0 19	21 16	1 19	7 57	0 39	19 56	1 38	14 17	16 59	22 45	22 48	24 57	7 31	1 25	
W21	0n 6	13 56	4 56	3 6	2 12	3 14	1 26	21 48	0 50	19 19	0 19	21 16	1 19	7 56	0 39	19 56	1 38	14 18	16 59	22 46	22 48	24 57	7 32	1 25	
T 22	0 29	18 4	4 37	3 33	1 57	2 44	1 26	21 41	0 51	19 17	0 19	21 17	1 18	7 55	0 39	19 56	1 38	14 19	16 59	22 48	22 48	24 57	7 33	1 25	
F 23	0 53	21 20	4 5	3 58	1 42	2 14	1 26	21 34	0 52	19 14	0 20	21 18	1 18	7 54	0 39	19 56	1 38	14 19	16 59	22 48	22 49	24 57	7 35	1 25	
S 24	1 17	23 38	3 23	4 21	1 27	1 44	1 26	21 26	0 53	19 12	0 20	21 18	1 18	7 53	0 39	19 56	1 38	14 20	16 59	22 49	22 49	24 58	7 36	1 25	
S 25	1 40	24 50	2 33	4 42	1 11	1 14	1 25	21 19	0 54	19 9	0 20	21 19	1 18	7 52	0 39	19 55	1 38	14 21	16 59	22 49	22 49	24 58	7 37	1 25	
M26	2 4	24 55	1 36	5 0	0 56	0 44	1 25	21 11	0 55	19 7	0 20	21 20	1 17	7 52	0 39	19 55	1 39	14 21	16 59	22 50	22 50	24 58	7 39	1 25	
T 27	2 27	23 52	0 34	5 16	0 46	0 14	1 24	21 3	0 56	19 5	0 20	21 20	1 17	7 51	0 39	19 55	1 39	14 22	16 59	22 50	22 50	24 58	7 40	1 25	
W28	2 51	21 43	0n29	5 29	0 26	0n16	1 24	20 55	0 57	19 2	0 20	21 21	1 17	7 50	0 39	19 55	1 39	14 23	16 59	22 50	22 50	24 58	7 41	1 25	
T 29	3 14	18 34	1 32	5 40	0 12	0 46	1 23	20 47	0 58	19 0	0 21	21 22	1 17	7 49	0 39	19 55	1 39	14 23	16 59	22 50	22 51	24 58	7 42	1 25	
F 30	3 38	14 31	2 32	5 48	0s 2	1 17	1 23	20 38	0 59	18 57	0 21	21 23	1 17	7 48	0 39	19 55	1 39	14 24	16 59	22 50	22 51	24 58	7 44	1 25	
S 31	4n 1	9s43	3n26	5s54	0s15	1n47	1s22	20s29	1s 1	18s55	0s21	21n23	1s16	7s47	0n39	19s55	1n39	14n24	16n59	22s50	22s51	24s58	7n45	1n25	

ASTRODIENST EPHEMERIS for the year 1973

geocentric

APRIL 1973

00:00 UT

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

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
S 1	4n24	4s21	4n11	5s58	0s28	2n17	1s21	20s21	1s 2	18s53	0s21	21n24	1s16	7s46	0n39	19s54	1n39	14n25	16n59	22s51	22s51	24s58	7n46	1n24
M 2	4 47	1n23	4 43	5 59	0 40	2 47	1 20	20 12	1 3	18 51	0 21	21 25	1 16	7 45	0 39	19 54	1 39	14 26	16 59	22 52	22 52	24 58	7 48	1 24
T 3	5 10	7 11	4 59	5 57	0 52	3 17	1 19	20 2	1 4	18 48	0 21	21 25	1 16	7 44	0 39	19 54	1 39	14 26	16 59	22 53	22 52	24 58	7 49	1 24
W 4	5 33	12 45	4 57	5 54	1 3	3 47	1 18	19 53	1 5	18 46	0 21	21 26	1 16	7 43	0 39	19 54	1 39	14 27	16 59	22 54	22 52	24 58	7 50	1 24
T 5	5 56	17 41	4 35	5 48	1 14	4 17	1 17	19 44	1 6	18 44	0 22	21 27	1 15	7 42	0 39	19 54	1 39	14 27	16 59	22 55	22 53	24 57	7 51	1 24
F 6	6 19	21 34	3 56	5 41	1 24	4 46	1 16	19 34	1 7	18 42	0 22	21 27	1 15	7 41	0 39	19 54	1 39	14 28	16 59	22 56	22 53	24 57	7 53	1 24
S 7	6 42	24 3	3 1	5 31	1 33	5 16	1 15	19 24	1 9	18 40	0 22	21 28	1 15	7 40	0 39	19 53	1 39	14 29	16 58	22 57	22 53	24 57	7 54	1 24
S 8	7 4	24 55	1 55	5 19	1 42	5 46	1 14	19 14	1 10	18 38	0 22	21 29	1 15	7 39	0 39	19 53	1 39	14 29	16 58	22 57	22 53	24 57	7 55	1 24
M 9	7 27	24 6	0 42	5 6	1 50	6 15	1 12	19 4	1 11	18 35	0 22	21 30	1 15	7 38	0 39	19 53	1 39	14 30	16 58	22 57	22 54	24 57	7 57	1 24
T 10	7 49	21 45	0s33	4 51	1 58	6 44	1 11	18 53	1 12	18 33	0 22	21 30	1 14	7 37	0 39	19 53	1 39	14 30	16 58	22 57	22 54	24 57	7 58	1 24
W 11	8 11	18 10	1 44	4 34	2 5	7 13	1 10	18 43	1 13	18 31	0 23	21 31	1 14	7 36	0 39	19 53	1 39	14 31	16 58	22 57	22 54	24 57	7 59	1 24
T 12	8 33	13 39	2 48	4 15	2 11	7 42	1 8	18 32	1 14	18 29	0 23	21 32	1 14	7 35	0 39	19 52	1 39	14 31	16 58	22 57	22 55	24 57	8 1	1 24
F 13	8 55	8 33	3 42	3 55	2 17	8 11	1 7	18 22	1 15	18 27	0 23	21 33	1 14	7 34	0 39	19 52	1 39	14 32	16 58	22 58	22 55	24 57	8 2	1 24
S 14	9 17	3 8	4 23	3 33	2 22	8 40	1 5	18 11	1 17	18 25	0 23	21 33	1 14	7 33	0 39	19 52	1 39	14 32	16 58	22 58	22 55	24 57	8 3	1 24
S 15	9 38	2s19	4 49	3 9	2 27	9 8	1 4	18 0	1 18	18 24	0 23	21 34	1 14	7 33	0 39	19 52	1 39	14 32	16 57	22 59	22 55	24 57	8 4	1 24
M 16	10 0	7 36	5 1	2 45	2 31	9 36	1 2	17 48	1 19	18 22	0 24	21 35	1 13	7 32	0 39	19 52	1 39	14 33	16 57	23 0	22 56	24 57	8 6	1 23
T 17	10 21	12 29	4 57	2 18	2 34	10 4	1 1	17 37	1 20	18 20	0 24	21 36	1 13	7 31	0 39	19 51	1 39	14 33	16 57	23 1	22 56	24 56	8 7	1 23
W 18	10 42	16 46	4 39	1 51	2 37	10 32	0 59	17 25	1 21	18 18	0 24	21 36	1 13	7 30	0 39	19 51	1 39	14 34	16 57	23 2	22 56	24 56	8 8	1 23
T 19	11 3	20 16	4 9	1 22	2 40	11 0	0 57	17 14	1 23	18 16	0 24	21 37	1 13	7 29	0 39	19 51	1 39	14 34	16 57	23 3	22 57	24 56	8 10	1 23
F 20	11 24	22 51	3 27	0 51	2 41	11 27	0 55	17 2	1 24	18 14	0 24	21 38	1 13	7 28	0 39	19 51	1 40	14 34	16 56	23 4	22 57	24 56	8 11	1 23
S 21	11 44	24 22	2 37	0 20	2 43	11 54	0 54	16 50	1 25	18 13	0 24	21 39	1 13	7 27	0 39	19 51	1 40	14 35	16 56	23 4	22 57	24 56	8 12	1 23
S 22	12 5	24 47	1 40	0n13	2 43	12 21	0 52	16 38	1 26	18 11	0 25	21 39	1 12	7 26	0 39	19 50	1 40	14 35	16 56	23 4	22 57	24 56	8 13	1 23
M 23	12 25	24 4	0 39	0 47	2 43	12 47	0 50	16 26	1 27	18 9	0 25	21 40	1 12	7 25	0 39	19 50	1 40	14 35	16 56	23 5	22 58	24 56	8 15	1 23
T 24	12 45	22 16	0n24	1 22	2 43	13 13	0 48	16 14	1 29	18 8	0 25	21 41	1 12	7 24	0 39	19 50	1 40	14 36	16 55	23 5	22 58	24 55	8 16	1 23
W 25	13 4	19 29	1 27	1 58	2 42	13 39	0 46	16 1	1 30	18 6	0 25	21 42	1 12	7 23	0 39	19 50	1 40	14 36	16 55	23 5	22 58	24 55	8 17	1 23
T 26	13 24	15 48	2 26	2 35	2 40	14 4	0 44	15 49	1 31	18 5	0 25	21 42	1 12	7 22	0 39	19 49	1 40	14 36	16 55	23 4	22 58	24 55	8 18	1 23
F 27	13 43	11 22	3 21	3 13	2 38	14 29	0 42	15 36	1 32	18 3	0 26	21 43	1 12	7 21	0 39	19 49	1 40	14 37	16 55	23 5	22 59	24 55	8 20	1 23
S 28	14 2	6 19	4 7	3 53	2 36	14 54	0 40	15 23	1 33	18 2	0 26	21 44	1 11	7 20	0 39	19 49	1 40	14 37	16 54	23 5	22 59	24 55	8 21	1 23
S 29	14 21	0 50	4 41	4 33	2 32	15 19	0 37	15 10	1 35	18 0	0 26	21 44	1 11	7 20	0 39	19 49	1 40	14 37	16 54	23 5	22 59	24 55	8 22	1 23
M 30	14n40	4n52	5n 1	5n14	2s29	15n43	0s35	14s57	1s36	17s59	0s26	21n45	1s11	7s19	0n39	19s48	1n40	14n37	16n54	23s 6	22s59	24s54	8n24	1n23

ASTRODIENST EPHEMERIS for the year 1973
geocentric

MAY 1973

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 35 7	10♌28'59	14♋49	20♊54	16♈0	24♍56	10♎45	18♏29	20♑R12	6♑R45	2♑R 7	9♑R28	10♌54	18♋12	18♊12	T 1
W 2	14 39 4	11°27'14	29°22	22°37	17°14	25°38	10°50	18°35	20♌10	6♌44	2♌6	9♌19	10°51	18°19	18°15	W 2
T 3	14 43 0	12°25'27	14♌13	24°21	18°28	26°21	10°55	18°42	20° 7	6°42	2° 5	9°10	10°48	18°25	18°18	T 3
F 4	14 46 57	13°23'38	29°13	26° 8	19°42	27° 3	11° 0	18°49	20° 5	6°41	2° 4	9° 3	10°44	18°32	18°22	F 4
S 5	14 50 54	14°21'48	14♏12	27°56	20°56	27°46	11° 5	18°56	20° 3	6°40	2° 3	8°59	10°41	18°39	18°25	S 5
S 6	14 54 50	15°19'55	29° 2	29°47	22°10	28°28	11°10	19° 3	20° 0	6°38	2° 1	8°56	10°38	18°45	18°28	S 6
M 7	14 58 47	16°18'01	13♌37	1♌39	23°24	29°10	11°14	19°10	19°58	6°37	2° 0	8°D56	10°35	18°52	18°31	M 7
T 8	15 2 43	17°16'05	27°53	3°32	24°38	29°53	11°19	19°17	19°56	6°35	1°59	8°57	10°32	18°59	18°35	T 8
W 9	15 6 40	18°14'07	11♌49	5°28	25°52	0♌35	11°23	19°24	19°54	6°34	1°58	8°R58	10°28	19° 5	18°38	W 9
T 10	15 10 36	19°12'07	25°25	7°25	27° 6	1°17	11°27	19°31	19°52	6°32	1°57	8°58	10°25	19°12	18°41	T 10
F 11	15 14 33	20°10'05	8♏43	9°25	28°19	1°59	11°30	19°38	19°50	6°30	1°56	8°56	10°22	19°19	18°44	F 11
S 12	15 18 30	21° 8'01	21°43	11°26	29°33	2°42	11°34	19°45	19°47	6°29	1°55	8°52	10°19	19°25	18°47	S 12
S 13	15 22 26	22° 5'55	4♌29	13°28	0♏47	3°24	11°37	19°53	19°45	6°27	1°54	8°47	10°16	19°32	18°50	S 13
M14	15 26 23	23° 3'47	17° 3	15°33	2° 1	4° 6	11°41	20° 0	19°43	6°26	1°54	8°39	10°13	19°39	18°53	M14
T 15	15 30 19	24° 1'38	29°25	17°38	3°15	4°48	11°44	20° 7	19°41	6°24	1°53	8°31	10° 9	19°45	18°56	T 15
W16	15 34 16	24°59'28	11♏37	19°45	4°28	5°30	11°47	20°14	19°39	6°23	1°52	8°23	10° 6	19°52	18°59	W16
T 17	15 38 12	25°57'16	23°40	21°54	5°42	6°12	11°49	20°22	19°38	6°21	1°51	8°16	10° 3	19°59	19° 2	T 17
F 18	15 42 9	26°55'02	5♌37	24° 3	6°56	6°54	11°52	20°29	19°36	6°20	1°50	8°10	10° 0	20° 5	19° 5	F 18
S 19	15 46 5	27°52'47	17°28	26°14	8°10	7°36	11°54	20°37	19°34	6°18	1°49	8° 6	9°57	20°12	19° 8	S 19
S 20	15 50 2	28°50'31	29°16	28°25	9°23	8°18	11°56	20°44	19°32	6°16	1°49	8° 4	9°54	20°19	19°11	S 20
M21	15 53 59	29°48'14	11♌3	0♏36	10°37	9° 0	11°58	20°51	19°30	6°15	1°48	8°D 4	9°50	20°25	19°14	M21
T 22	15 57 55	0♏45'55	22°54	2°48	11°51	9°42	12° 0	20°59	19°28	6°13	1°47	8° 5	9°47	20°32	19°17	T 22
W23	16 1 52	1°43'35	4♌52	4°59	13° 4	10°24	12° 2	21° 6	19°27	6°11	1°47	8° 6	9°44	20°39	19°20	W23
T 24	16 5 48	2°41'15	17° 1	7°10	14°18	11° 5	12° 3	21°14	19°25	6°10	1°46	8° 8	9°41	20°45	19°23	T 24
F 25	16 9 45	3°38'53	29°26	9°21	15°32	11°47	12° 4	21°22	19°23	6° 8	1°46	8°R 9	9°38	20°52	19°25	F 25
S 26	16 13 41	4°36'30	12♌12	11°30	16°45	12°29	12° 5	21°29	19°22	6° 7	1°45	8° 9	9°34	20°58	19°28	S 26
S 27	16 17 38	5°34'06	25°22	13°39	17°59	13°10	12° 6	21°37	19°20	6° 5	1°44	8° 7	9°31	21° 5	19°31	S 27
M28	16 21 34	6°31'42	9♋0	15°46	19°12	13°52	12° 7	21°44	19°19	6° 3	1°44	8° 4	9°28	21°12	19°33	M28
T 29	16 25 31	7°29'16	23° 6	17°51	20°26	14°33	12° 7	21°52	19°17	6° 2	1°44	8° 0	9°25	21°18	19°36	T 29
W30	16 29 28	8°26'50	7♌39	19°54	21°40	15°15	12° 8	22° 0	19°16	6° 0	1°43	7°56	9°22	21°25	19°39	W30
T 31	16 33 24	9♏24'23	22♌32	21♏56	22♏53	15♌56	12°R 8	22♏7	19♌15	5♌59	1♌43	7♌52	9♌19	21♌32	19♋41	T 31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14n58	10n30	5n 4	5n56	2s25	16n 6	0s33	14s44	1s37	17s58	0s26	21n46	1s11	7s18	0n39	19s48	1n40	14n38	16n54	23s 6	23s 0	24s54	8n25	1n23											
W 2	15 16	15 43	4 47	6 38	2 20	16 29	0 31	14 31	1 38	17 57	0 26	21 47	1 11	7 17	0 39	19 48	1 40	14 38	16 53	23 7	23 0	24 54	8 26	1 23											
T 3	15 34	20 5	4 10	7 21	2 15	16 52	0 29	14 18	1 40	17 55	0 27	21 47	1 11	7 16	0 39	19 48	1 40	14 38	16 53	23 8	23 0	24 54	8 27	1 23											
F 4	15 52	23 11	3 16	8 5	2 9	17 14	0 26	14 4	1 41	17 54	0 27	21 48	1 10	7 15	0 39	19 47	1 40	14 38	16 53	23 8	23 1	24 53	8 28	1 23											
S 5	16 9	24 38	2 9	8 50	2 3	17 36	0 24	13 51	1 42	17 53	0 27	21 49	1 10	7 14	0 39	19 47	1 40	14 38	16 52	23 8	23 1	24 53	8 30	1 23											
S 6	16 26	24 19	0 53	9 35	1 56	17 58	0 22	13 37	1 43	17 52	0 27	21 50	1 10	7 14	0 39	19 47	1 40	14 38	16 52	23 9	23 1	24 53	8 31	1 23											
M 7	16 43	22 20	0s25	10 21	1 49	18 19	0 19	13 24	1 45	17 51	0 27	21 50	1 10	7 13	0 39	19 46	1 40	14 38	16 52	23 9	23 1	24 53	8 32	1 23											
T 8	16 59	18 57	1 40	11 7	1 41	18 39	0 17	13 10	1 46	17 50	0 28	21 51	1 10	7 12	0 39	19 46	1 40	14 38	16 51	23 8	23 2	24 52	8 33	1 23											
W 9	17 16	14 34	2 48	11 53	1 33	18 59	0 15	12 56	1 47	17 49	0 28	21 52	1 10	7 11	0 39	19 46	1 40	14 39	16 51	23 8	23 2	24 52	8 34	1 23											
T 10	17 32	9 32	3 44	12 40	1 25	19 19	0 12	12 42	1 48	17 48	0 28	21 52	1 10	7 10	0 39	19 46	1 40	14 39	16 50	23 8	23 2	24 52	8 36	1 22											
F 11	17 47	4 11	4 27	13 26	1 16	19 38	0 10	12 28	1 50	17 47	0 28	21 53	1 10	7 10	0 39	19 45	1 40	14 39	16 50	23 9	23 2	24 52	8 37	1 22											
S 12	18 3	1s14	4 54	14 13	1 6	19 56	0 8	12 14	1 51	17 46	0 28	21 54	1 9	7 9	0 39	19 45	1 40	14 39	16 50	23 9	23 3	24 51	8 38	1 22											
S 13	18 18	6 29	5 7	14 59	0 57	20 14	0 5	12 0	1 52	17 46	0 29	21 54	1 9	7 8	0 39	19 45	1 40	14 39	16 49	23 9	23 3	24 51	8 39	1 22											
M14	18 32	11 23	5 5	15 45	0 47	20 31	0 3	11 46	1 53	17 45	0 29	21 55	1 9	7 7	0 39	19 45	1 40	14 39	16 49	23 10	23 3	24 51	8 40	1 22											
T 15	18 47	15 45	4 48	16 30	0 37	20 48	0 0	11 32	1 55	17 44	0 29	21 56	1 9	7 7	0 39	19 44	1 40	14 39	16 49	23 10	23 3	24 50	8 41	1 22											
W16	19 1	19 25	4 18	17 15	0 27	21 4	0n 2	11 17	1 56	17 44	0 29	21 56	1 9	7 6	0 38	19 44	1 40	14 39	16 48	23 11	23 4	24 50	8 42	1 22											
T 17	19 15	22 12	3 37	17 59	0 16	21 20	0 5	11 3	1 57	17 43	0 30	21 57	1 9	7 5	0 38	19 44	1 40	14 39	16 48	23 11	23 4	24 50	8 44	1 22											
F 18	19 28	23 59	2 47	18 42	0 6	21 35	0 7	10 49	1 58	17 43	0 30	21 58	1 9	7 4	0 38	19 43	1 40	14 39	16 47	23 11	23 4	24 49	8 45	1 22											
S 19	19 41	24 40	1 50	19 24	0n 5	21 50	0 9	10 34	2 0	17 42	0 30	21 58	1 8	7 4	0 38	19 43	1 40	14 38	16 47	23 12	23 4	24 49	8 46	1 22											
S 20	19 54	24 14	0 48	20 4	0 16	22 3	0 12	10 20	2 1	17 42	0 30	21 59	1 8	7 3	0 38	19 43	1 40	14 38	16 47	23 12	23 4	24 49	8 47	1 22											
M21	20 7	22 43	0n16	20 42	0 26	22 17	0 14	10 5	2 2	17 41	0 30	22 0	1 8	7 2	0 38	19 43	1 40	14 38	16 46	23 12	23 5	24 48	8 48	1 22											
T 22	20 19	20 11	1 20	21 19	0 36	22 29	0 17	9 50	2 3	17 41	0 31	22 0	1 8	7 2	0 38	19 42	1 40	14 38	16 46	23 12	23 5	24 48	8 49	1 22											
W23	20 31	16 46	2 21	21 53	0 46	22 41	0 19	9 36	2 5	17 41	0 31	22 1	1 8	7 1	0 38	19 42	1 40	14 38	16 45	23 12	23 5	24 48	8 50	1 22											
T 24	20 42	12 37	3 17	22 26	0 56	22 53	0 22	9 21	2 6	17 41	0 31	22 1	1 8	7 1	0 38	19 42	1 40	14 38	16 45	23 12	23 5	24 47	8 51	1 22											
F 25	20 53	7 51	4 5	22 55	1 5	23 3	0 24	9 6	2 7	17 41	0 31	22 2	1 8	7 0	0 38	19 42	1 40	14 38	16 44	23 12	23 6	24 47	8 52	1 22											
S 26	21 4	2 39	4 42	23 23	1 14	23 13	0 26	8 51	2 8	17 40	0 31	22 3	1 8	6 59	0 38	19 41	1 40	14 37	16 44	23 12	23 6	24 47	8 53	1 22											
S 27	21 14	2n50	5 5	23 48	1 22	23 23	0 29	8 36	2 10	17 40	0 32	22 3	1 8	6 59	0 38	19 41	1 40	14 37	16 43	23 12	23 6	24 46	8 54	1 22											
M28	21 24	8 22	5 13	24 10	1 29	23 31	0 31	8 22	2 11	17 40	0 32	22 4	1 7	6 58	0 38	19 41	1 40	14 37	16 43	23 12	23 6	24 46	8 55	1 22											
T 29	21 34	13 39	5 2	24 29	1 36	23 39	0 33	8 7	2 12	17 41	0 32	22 4	1 7	6 58	0 38	19 40	1 40	14 37	16 43	23 12	23 7	24 45	8 56	1 22											
W30	21 43	18 21	4 32	24 46	1 43	23 47	0 36	7 52	2 13	17 41	0 32	22 5	1 7	6 57	0 38	19 40	1 40	14 37	16 42	23 12	23 7	24 45	8 57	1 22											
T 31	21n52	22n 0	3n43	25n 0	1n48	23n53	0n38	7s37	2s15	17s41	0s33	22n 5	1s 7	6s57	0n38	19s40	1n40	14n36	16n42	23s13	23s 7	24s45	8n58	1n22											

ASTRODIENST EPHEMERIS for the year 1973

geocentric

JUNE 1973

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 37 21	10 ^{II} 21'55	7 ^{II} 39	23 ^{II} 55	24 ^{II} 7	16 ^{II} 37	12°R 8	22 ^{II} 15	19°R13	5°R57	1°R42	7°R49	9 ^{III} 15	21 ^{III} 38	19 ^{III} 44	F 1
S 2	16 41 17	11°19'26	22°51	25°52	25°20	17°19	12 ^{III} 7	22°23	19 ^{III} 12	5 ^{III} 55	1 ^{III} 42	7 ^{III} 47	9°12	21°45	19°46	S 2
S 3	16 45 14	12°16'55	7 ^{III} 56	27°46	26°34	18° 0	12° 7	22°31	19°11	5°54	1°42	7°D47	9° 9	21°52	19°49	S 3
M 4	16 49 10	13°14'24	22°48	29°38	27°47	18°41	12° 6	22°38	19°10	5°52	1°41	7°47	9° 6	21°58	19°51	M 4
T 5	16 53 7	14°11'52	7 ^{III} 20	1 ^{III} 28	29° 1	19°22	12° 5	22°46	19° 9	5°50	1°41	7°48	9° 3	22° 5	19°53	T 5
W 6	16 57 3	15° 9'18	21°28	3°15	0 ^{III} 14	20° 3	12° 4	22°54	19° 7	5°49	1°41	7°50	9° 0	22°12	19°56	W 6
T 7	17 1 0	16° 6'43	5 ^{III} 11	4°59	1°28	20°43	12° 3	23° 2	19° 6	5°47	1°41	7°51	8°56	22°18	19°58	T 7
F 8	17 4 57	17° 4'07	18°30	6°41	2°41	21°24	12° 2	23° 9	19° 5	5°46	1°41	7°R51	8°53	22°25	20° 0	F 8
S 9	17 8 53	18° 1'29	1 ^{III} 28	8°20	3°55	22° 5	12° 0	23°17	19° 4	5°44	1°41	7°51	8°50	22°32	20° 2	S 9
S 10	17 12 50	18°58'51	14° 7	9°56	5° 8	22°45	11°58	23°25	19° 4	5°43	1°40	7°49	8°47	22°38	20° 5	S 10
M 11	17 16 46	19°56'12	26°30	11°30	6°21	23°26	11°56	23°33	19° 3	5°41	1°40	7°47	8°44	22°45	20° 7	M 11
T 12	17 20 43	20°53'31	8 ^{III} 41	13° 1	7°35	24° 6	11°54	23°41	19° 2	5°39	1°D40	7°45	8°40	22°52	20° 9	T 12
W 13	17 24 39	21°50'50	20°42	14°29	8°48	24°46	11°51	23°48	19° 1	5°38	1°40	7°42	8°37	22°58	20°11	W 13
T 14	17 28 36	22°48'08	2 ^{III} 37	15°55	10° 1	25°27	11°49	23°56	19° 1	5°36	1°40	7°40	8°34	23° 5	20°13	T 14
F 15	17 32 32	23°45'26	14°27	17°17	11°15	26° 7	11°46	24° 4	19° 0	5°35	1°41	7°38	8°31	23°12	20°15	F 15
S 16	17 36 29	24°42'42	26°16	18°37	12°28	26°47	11°43	24°12	18°59	5°33	1°41	7°37	8°28	23°18	20°17	S 16
S 17	17 40 26	25°39'58	8 ^{III} 4	19°54	13°41	27°27	11°40	24°20	18°59	5°32	1°41	7°D37	8°25	23°25	20°19	S 17
M 18	17 44 22	26°37'14	19°55	21° 7	14°55	28° 6	11°37	24°27	18°58	5°30	1°41	7°37	8°21	23°31	20°20	M 18
T 19	17 48 19	27°34'29	1 ^{III} 50	22°18	16° 8	28°46	11°33	24°35	18°58	5°29	1°41	7°38	8°18	23°38	20°22	T 19
W 20	17 52 15	28°31'44	13°54	23°26	17°21	29°26	11°30	24°43	18°57	5°27	1°42	7°39	8°15	23°45	20°24	W 20
T 21	17 56 12	29°28'58	26° 8	24°31	18°34	0 ^{III} 5	11°26	24°51	18°57	5°26	1°42	7°40	8°12	23°51	20°26	T 21
F 22	18 0 8	0 ^{III} 26'13	8 ^{III} 37	25°32	19°48	0°44	11°22	24°59	18°57	5°24	1°42	7°40	8° 9	23°58	20°27	F 22
S 23	18 4 5	1°23'27	21°24	26°30	21° 1	1°24	11°18	25° 6	18°57	5°23	1°42	7°41	8° 6	24° 5	20°29	S 23
S 24	18 8 1	2°20'41	4 ^{III} 32	27°25	22°14	2° 3	11°13	25°14	18°56	5°22	1°43	7°R41	8° 2	24°11	20°31	S 24
M 25	18 11 58	3°17'54	18° 3	28°17	23°27	2°42	11° 9	25°22	18°56	5°20	1°43	7°41	7°59	24°18	20°32	M 25
T 26	18 15 55	4°15'08	1 ^{III} 59	29° 4	24°40	3°21	11° 4	25°30	18°56	5°19	1°44	7°40	7°56	24°25	20°34	T 26
W 27	18 19 51	5°12'22	16°20	29°48	25°53	3°59	11° 0	25°38	18°D56	5°17	1°44	7°40	7°53	24°31	20°35	W 27
T 28	18 23 48	6° 9'36	1 ^{III} 3	0 ^{III} 29	27° 7	4°38	10°55	25°45	18°56	5°16	1°45	7°40	7°50	24°38	20°36	T 28
F 29	18 27 44	7° 6'51	16° 3	1° 5	28°20	5°16	10°49	25°53	18°56	5°15	1°45	7°40	7°46	24°45	20°38	F 29
S 30	18 31 41	8°24'05	1 ^{III} 11	1 ^{III} 37	29°23	5 ^{III} 54	10 ^{III} 44	26 ^{III} 1	18°56	5 ^{III} 13	1°46	7°340	7°343	24 ^{III} 51	20 ^{III} 39	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	22n 0	24n11	2n38	25n11	1n53	23n59	0n40	7s22	2s16	17s41	0s33	22n 6	1s 7	6s56	0n38	19s40	1n40	14n36	16n41	23s13	23s 7	24s44	8n59	1n22			
S 2	22 8	24 36	1 21	25 20	1 57	24 4	0 43	7 7	2 17	17 41	0 33	22 7	1 7	6 56	0 38	19 39	1 40	14 36	16 41	23 13	23 7	24 44	9 0	1 22			
S 3	22 16	23 11	0s 1	25 26	2 1	24 9	0 45	6 52	2 18	17 42	0 33	22 7	1 7	6 56	0 38	19 39	1 40	14 35	16 40	23 13	23 8	24 43	9 1	1 22			
M 4	22 24	20 10	1 22	25 30	2 3	24 13	0 47	6 37	2 20	17 42	0 33	22 8	1 7	6 55	0 38	19 39	1 40	14 35	16 40	23 13	23 8	24 43	9 2	1 22			
T 5	22 30	15 56	2 36	25 31	2 5	24 16	0 49	6 22	2 21	17 43	0 34	22 8	1 7	6 55	0 38	19 39	1 40	14 35	16 39	23 13	23 8	24 43	9 3	1 22			
W 6	22 37	10 54	3 38	25 30	2 6	24 18	0 51	6 7	2 22	17 43	0 34	22 9	1 7	6 54	0 38	19 38	1 40	14 34	16 39	23 13	23 8	24 42	9 3	1 22			
T 7	22 43	5 29	4 26	25 27	2 7	24 20	0 54	5 52	2 23	17 44	0 34	22 9	1 6	6 54	0 38	19 38	1 40	14 34	16 38	23 13	23 8	24 42	9 4	1 22			
F 8	22 49	0s 1	4 58	25 22	2 6	24 21	0 56	5 37	2 24	17 44	0 34	22 10	1 6	6 54	0 38	19 38	1 40	14 34	16 38	23 13	23 9	24 41	9 5	1 22			
S 9	22 54	5 23	5 14	25 15	2 5	24 21	0 58	5 22	2 26	17 45	0 35	22 10	1 6	6 53	0 38	19 38	1 40	14 33	16 37	23 13	23 9	24 41	9 6	1 22			
S 10	22 59	10 23	5 14	25 7	2 3	24 20	1 0	5 7	2 27	17 46	0 35	22 11	1 6	6 53	0 38	19 37	1 40	14 33	16 37	23 13	23 9	24 40	9 7	1 22			
M 11	23 4	14 52	4 59	24 56	2 0	24 19	1 2	4 53	2 28	17 47	0 35	22 11	1 6	6 53	0 38	19 37	1 40	14 32	16 36	23 13	23 9	24 40	9 8	1 22			
T 12	23 8	18 40	4 31	24 44	1 57	24 17	1 4	4 38	2 29	17 47	0 35	22 12	1 6	6 52	0 38	19 37	1 40	14 32	16 36	23 13	23 10	24 39	9 8	1 22			
W 13	23 12	21 39	3 51	24 31	1 52	24 14	1 6	4 23	2 30	17 48	0 35	22 12	1 6	6 52	0 38	19 37	1 40	14 31	16 35	23 13	23 10	24 39	9 9	1 22			
T 14	23 15	23 40	3 2	24 16	1 48	24 11	1 7	4 8	2 32	17 49	0 36	22 12	1 6	6 52	0 38	19 36	1 40	14 31	16 35	23 13	23 10	24 38	9 10	1 22			
F 15	23 18	24 36	2 5	24 1	1 42	24 7	1 9	3 53	2 33	17 50	0 36	22 13	1 6	6 52	0 37	19 36	1 40	14 31	16 34	23 13	23 10	24 38	9 11	1 22			
S 16	23 20	24 26	1 3	23 44	1 36	24 2	1 11	3 38	2 34	17 51	0 36	22 13	1 6	6 52	0 37	19 36	1 40	14 30	16 34	23 13	23 10	24 37	9 11	1 22			
S 17	23 22	23 9	0n 2	23 26	1 29	23 57	1 13	3 23	2 35	17 52	0 36	22 14	1 6	6 51	0 37	19 36	1 40	14 29	16 33	23 13	23 11	24 37	9 12	1 22			
M 18	23 24	20 51	1 8	23 7	1 21	23 50	1 14	3 9	2 36	17 53	0 37	22 14	1 6	6 51	0 37	19 35	1 40	14 29	16 33	23 13	23 11	24 36	9 13	1 22			
T 19	23 25	17 38	2 10	22 48	1 13	23 44	1 16	2 54	2 38	17 55	0 37	22 14	1 6	6 51	0 37	19 35	1 40	14 28	16 32	23 13	23 11	24 36	9 13	1 22			
W 20	23 26	13 39	3 8	22 27	1 4	23 36	1 18	2 39	2 39	17 56	0 37	22 15	1 5	6 51	0 37	19 35	1 40	14 28	16 32	23 13	23 11	24 35	9 14	1 22			
T 21	23 27	9 4	3 58	22 7	0 54	23 28	1 19	2 25	2 40	17 57	0 37	22 15	1 5	6 51	0 37	19 35	1 40	14 27	16 31	23 13	23 11	24 35	9 15	1 22			
F 22	23 27	4 2	4 38	21 46	0 44	23 19	1 21	2 10	2 41	17 58	0 37	22 16	1 5	6 51	0 37	19 34	1 40	14 27	16 31	23 13	23 12	24 34	9 15	1 22			
S 23	23 26	1n16	5 5	21 24	0 33	23 9	1 22	1 56	2 42	18 0	0 38	22 16	1 5	6 51	0 37	19 34	1 40	14 26	16 30	23 13	23 12	24 33	9 16	1 22			
S 24	23 25	6 39	5 17	21 3	0 22	22 59	1 23	1 41	2 43	18 1	0 38	22 16	1 5	6 51	0 37	19 34	1 40	14 26	16 30	23 13	23 12	24 33	9 17	1 22			
M 25	23 24	11 53	5 13	20 41	0 10	22 48	1 25	1 27	2 44	18 2	0 38	22 17	1 5	6 51	0 37	19 34	1 40	14 25	16 29	23 13	23 12	24 32	9 17	1 22			
T 26	23 22	16 42	4 50	20 19	0s 2	22 36	1 26	1 12	2 46	18 4	0 38	22 17	1 5	6 51	0 37	19 34	1 40	14 24	16 29	23 13	23 12	24 32	9 18	1 22			
W 27	23 20	20 41	4 8	19 57	0 15	22 24	1 27	0 58	2 47	18 5	0 38	22 17	1 5	6 51	0 37	19 33	1 39	14 24	16 28	23 13	23 13	24 31	9 18	1 22			
T 28	23 18	23 28	3 10	19 36	0 28	22 11	1 28	0 44	2 48	18 7	0 39	22 18	1 5	6 51	0 37	19 33	1 39	14 23	16 28	23 13	23 13	24 31	9 19	1 22			
F 29	23 15	24 39	1 57	19 14	0 42	21 57	1 29	0 29	2 48	18 9	0 39	22 18	1 5	6 51	0 37	19 33	1 39	14 22	16 27	23 13	23 13	24 30	9 19	1 22			
S 30	23n12	24n 2	0n36	18n53	0s56	21n43	1n30	0s15	2s50	18s10	0s39	22n18	1s 5	6s51	0n37	19s33	1n39	14n22	16n27	23s13	23s13	24s29	9n20	1n22			

ASTRODIENST EPHEMERIS for the year 1973
geocentric

JULY 1973

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 37	9 ⁵⁵ 1'19	16 ⁵⁵ 19	2 ⁰² 5	0 ⁰⁴ 46	6 ⁰⁷ 32	10 ⁰⁸ R39	26 ¹¹ 8	18 ⁵⁵ 7	5 ⁰⁸ R12	1 ⁵⁴ 46	7 ⁰⁴ R40	7 ³⁴ 40	24 ⁵⁷ 58	20 ⁰⁷ 40	S 1
M 2	18 39 34	9 ⁵⁸ 32	1 ⁰¹ 17	2 ⁰² 29	1 ⁵⁹ 7	7 ¹⁰ 10	10 ⁰⁸ ≈33	26 ¹⁶ 16	18 ⁵⁷ 5	5 ⁰⁷ 11	1 ⁴⁷ 47	7 ³⁴ 40	7 ³⁷ 25° 5	20 ⁴¹ 20°41	M 2	
T 3	18 43 31	10 ⁵⁵ 46	15 ⁰⁹ 59	2 ⁴⁹ 3	3 ¹² 7	7 ⁴⁸ 10	10 ²⁸ 26	26 ²⁴ 18	18 ⁵⁷ 5	5 ¹⁰ 10	1 ⁴⁸ 48	7 ⁴⁰ 7	7 ³⁴ 25°11	20 ⁴² 20°42	T 3	
W 4	18 47 27	11 ⁵² 59	0 ¹⁰ 17	3 ⁰ 4	4 ²⁵ 8	8 ²⁶ 10	10 ²² 26	26 ³¹ 18	18 ⁵⁸ 5	5 ⁸ 8	1 ⁴⁸ 48	7 ³⁹ 7	7 ³¹ 25°18	20 ⁴⁴ 20°44	W 4	
T 5	18 51 24	12 ⁵⁰ 12	14 ¹⁰ 3	3 ¹⁴ 3	5 ³⁸ 9	9 ³ 10	10 ¹⁶ 26	26 ³⁹ 18	18 ⁵⁸ 5	5 ⁷ 7	1 ⁴⁹ 49	7 ³⁹ 7	7 ²⁷ 25°25	20 ⁴⁵ 20°45	T 5	
F 6	18 55 20	13 ⁴⁷ 24	27 ³⁵ 3	3 ²⁰ 6	6 ⁵¹ 9	9 ⁴⁰ 10	10 ¹⁰ 26	26 ⁴⁷ 18	18 ⁵⁸ 5	5 ⁶ 6	1 ⁵⁰ 50	7 ³⁸ 7	7 ²⁴ 25°31	20 ⁴⁶ 20°46	F 6	
S 7	18 59 17	14 ⁴⁴ 37	10 ⁵⁴ 36	3 ⁰ R21	8 ⁴ 10	10 ¹⁷ 10	10 ³ 26	26 ⁵⁴ 18	18 ⁵⁹ 5	5 ⁵ 5	1 ⁵¹ 51	7 ⁰ D38	7 ²¹ 25°38	20 ⁴⁶ 20°46	S 7	
S 8	19 3 13	15 ⁴¹ 49	23 ¹⁴ 3	3 ¹⁷ 9	9 ¹⁷ 10	10 ⁵⁴ 9	9 ⁵⁷ 27	2 ⁰ 18	18 ⁵⁹ 5	5 ⁴ 4	1 ⁵² 52	7 ³⁸ 7	7 ¹⁸ 25°44	20 ⁴⁷ 20°47	S 8	
M 9	19 7 10	16 ³⁹ 01	5 ¹³ 35	3 ⁸ 10	10 ³⁰ 11	11 ³¹ 9	9 ⁵¹ 27	2 ⁰ 19	19 ⁰ 5	5 ³ 3	1 ⁵² 52	7 ³⁸ 7	7 ¹⁵ 25°51	20 ⁴⁸ 20°48	M 9	
T 10	19 11 6	17 ³⁶ 13	17 ⁴⁰ 3	2 ⁵⁵ 11	11 ⁴³ 12	12 ⁷ 9	9 ⁴⁴ 27	2 ¹⁷ 19	19 ¹ 5	5 ² 2	1 ⁵³ 53	7 ³⁹ 7	7 ¹² 25°58	20 ⁴⁹ 20°49	T 10	
W 11	19 15 3	18 ³³ 25	29 ³⁶ 2	2 ³⁸ 12	12 ⁵⁶ 12	12 ⁴⁴ 9	9 ³⁷ 27	2 ²⁴ 19	19 ¹ 5	5 ⁰ 0	1 ⁵⁴ 54	7 ⁴⁰ 7	7 ⁸ 26° 4	20 ⁵⁰ 20°50	W 11	
T 12	19 19 0	19 ³⁰ 37	11 ⁵⁷ 27	2 ¹⁶ 14	14 ⁹ 13	13 ²⁰ 9	9 ³¹ 27	2 ³² 19	19 ² 4	4 ⁵⁹ 5	1 ⁵⁵ 55	7 ⁴¹ 7	7 ⁵ 26°11	20 ⁵⁰ 20°50	T 12	
F 13	19 22 56	20 ²⁷ 49	23 ¹⁴ 3	1 ⁵⁰ 15	15 ²¹ 13	13 ⁵⁵ 9	9 ²⁴ 27	2 ³⁹ 19	19 ³ 4	4 ⁵⁸ 5	1 ⁵⁶ 56	7 ⁴² 7	7 ² 26°18	20 ⁵¹ 20°51	F 13	
S 14	19 26 53	21 ²⁵ 01	5 ³ 3	1 ²¹ 16	16 ³⁴ 14	14 ³¹ 9	9 ¹⁷ 27	2 ⁴⁷ 19	19 ⁴ 4	4 ⁵⁷ 5	1 ⁵⁷ 57	7 ⁰ R43	6 ⁵⁹ 26°24	20 ⁵² 20°52	S 14	
S 15	19 30 49	22 ²² 14	16 ⁵⁵ 19	0 ⁴⁸ 17	17 ⁴⁷ 15	15 ⁷ 9	9 ¹⁰ 27	2 ⁵⁴ 19	19 ⁵ 5	4 ⁵⁶ 5	1 ⁵⁸ 58	7 ⁴² 6	6 ⁵⁶ 26°31	20 ⁵² 20°52	S 15	
M 16	19 34 46	23 ¹⁹ 27	28 ⁵² 0	0 ¹³ 19	19 ⁰ 15	15 ⁴² 9	9 ³ 28	2 ⁸ 19	19 ⁶ 6	4 ⁵⁵ 5	1 ⁵⁹ 59	7 ⁴¹ 6	6 ⁵² 26°38	20 ⁵³ 20°53	M 16	
T 17	19 38 42	24 ¹⁶ 40	10 ⁵⁸ ≈58	29 ³⁵ 35	20 ¹² 16	16 ¹⁷ 8	8 ⁵⁵ 28	2 ⁹ 19	19 ⁷ 7	4 ⁵⁵ 2	0 ⁷⁴⁰ 6	6 ⁴⁹ 6	6 ⁴⁴ 26°44	20 ⁵³ 20°53	T 17	
W 18	19 42 39	25 ¹³ 53	23 ¹³ 28	28 ⁵⁵ 21	21 ²⁵ 16	16 ⁵² 8	8 ⁴⁸ 28	2 ¹⁶ 19	19 ⁸ 8	4 ⁵⁴ 2	0 ⁷³⁷ 6	6 ⁴⁶ 6	6 ⁵¹ 26°51	20 ⁵³ 20°53	W 18	
T 19	19 46 35	26 ¹¹ 07	5 ³ 40	28 ¹⁴ 22	22 ³⁸ 17	17 ²⁶ 8	8 ⁴¹ 28	2 ²³ 19	19 ⁹ 9	4 ⁵³ 2	0 ⁷³⁵ 6	6 ⁴³ 6	6 ⁴³ 26°58	20 ⁵⁴ 20°54	T 19	
F 20	19 50 32	27 ⁸ 22	18 ²⁰ 27	27 ³³ 23	23 ⁵⁰ 18	18 ⁰ 8	8 ³³ 28	2 ³⁰ 19	19 ¹⁰ 10	4 ⁵² 2	0 ⁷³² 6	6 ⁴⁰ 6	27 ⁴ 20°54	20°54	F 20	
S 21	19 54 29	28 ⁵ 37	1 ⁰ 14	26 ⁵³ 25	25 ³ 18	18 ³⁴ 8	8 ²⁶ 28	2 ³⁸ 19	19 ¹¹ 11	4 ⁵¹ 2	0 ⁷³⁰ 6	6 ³⁷ 6	27 ¹¹ 20°54	20°54	S 21	
S 22	19 58 25	29 ² 54	14 ²⁵ 26	26 ¹³ 26	26 ¹⁶ 19	19 ⁸ 8	8 ¹⁸ 28	2 ⁴⁵ 19	19 ¹³ 13	4 ⁵⁰ 2	0 ⁷²⁸ 6	6 ³³ 6	27 ¹⁸ 20°54	20°54	S 22	
M 23	20 2 22	0 ⁰ 11	27 ⁵⁴ 25	25 ³⁵ 27	27 ²⁸ 19	19 ⁴² 8	8 ¹¹ 28	2 ⁵² 19	19 ¹⁴ 14	4 ⁵⁰ 2	0 ⁷⁰ 38	6 ³⁰ 6	27 ²⁴ 20°54	20°54	M 23	
T 24	20 6 18	0 ⁵⁷ 29	11 ⁵⁴ 43	25 ⁰ 28	28 ⁴¹ 20	20 ¹⁵ 8	8 ³ 28	2 ⁵⁹ 19	19 ¹⁵ 15	4 ⁴⁹ 2	0 ⁷²⁸ 6	6 ²⁷ 6	27 ³¹ 20°54	20°54	T 24	
W 25	20 10 15	1 ⁵⁴ 48	25 ⁵⁰ 24	24 ²⁸ 29	29 ⁵³ 20	20 ⁴⁸ 7	7 ⁵⁵ 29	2 ⁶ 19	19 ¹⁷ 17	4 ⁴⁸ 2	0 ⁷²⁹ 6	6 ²⁴ 6	27 ³⁷ 20°54	20°54	W 25	
T 26	20 14 11	2 ⁵² 08	10 ¹¹ 16	24 ⁰ 1	1 ⁰ 6	21 ²¹ 7	7 ⁴⁸ 29	2 ¹³ 19	19 ¹⁸ 18	4 ⁴⁷ 2	0 ⁷³⁰ 6	6 ²¹ 6	27 ⁴⁴ 20°54	20°54	T 26	
F 27	20 18 8	3 ⁴⁹ 29	24 ⁵⁷ 23	23 ³⁶ 2	2 ¹⁸ 21	21 ⁵³ 7	7 ⁴⁰ 29	2 ²⁰ 19	19 ²⁰ 20	4 ⁴⁷ 2	0 ⁷³¹ 6	6 ¹⁸ 6	27 ⁵¹ 20°54	20°54	F 27	
S 28	20 22 4	4 ⁴⁶ 50	9 ⁵⁴ 29	23 ¹⁶ 3	3 ³¹ 22	22 ²⁵ 7	7 ³² 29	2 ²⁷ 19	19 ²¹ 21	4 ⁴⁶ 2	0 ⁷³² 6	6 ¹⁴ 6	27 ⁵⁷ 20°54	20°54	S 28	
S 29	20 26 1	5 ⁴⁴ 13	24 ⁴⁴ 23	2 ³ 2	4 ⁴³ 22	22 ⁵⁷ 7	7 ²⁴ 29	2 ³⁴ 19	19 ²³ 23	4 ⁴⁶ 2	0 ⁷³¹ 6	6 ¹¹ 6	28 ⁴ 20°54	20°54	S 29	
M 30	20 29 58	6 ⁴¹ 37	9 ⁰ 25	22 ⁵⁴ 5	5 ⁵⁶ 23	23 ²⁸ 7	7 ¹⁶ 29	2 ⁴⁰ 19	19 ²⁵ 25	4 ⁴⁵ 2	0 ⁷²⁹ 6	6 ⁸ 6	28 ¹¹ 20°54	20°54	M 30	
T 31	20 33 54	7 ⁰ 3901	24 ⁰ 14	22 ⁵² 52	7 ⁰ 8	23 ⁰ 59	7 [≈] 9	29 ¹¹ 47	19 ¹¹ 26	4 ⁴⁷ 44	2 ¹¹ 19	7 ³ 25	6 ³ 5	28 ¹⁷ 17	20 ⁰ 53	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n 8	21n39	0s48	18n33	1s11	21n28	1n31	0s 1	2s51	18s12	0s39	22n18	1s 5	6s51	0n37	19s33	1n39	14n21	16n26	23s13	23s13	24s29	9n20	1n22			
M 2	23 4	17 48	2 8	18 13	1 25	21 13	1 32	0n13	2 52	18 14	0 40	22 19	1 5	6 51	0 37	19 32	1 39	14 20	16 26	23 13	23 13	24 28	9 21	1 22			
T 3	23 0	12 54	3 17	17 54	1 41	20 57	1 33	0 26	2 53	18 15	0 40	22 19	1 5	6 51	0 37	19 32	1 39	14 20	16 25	23 13	23 14	24 28	9 21	1 22			
W 4	22 55	7 26	4 13	17 36	1 56	20 41	1 34	0 40	2 54	18 17	0 40	22 19	1 5	6 52	0 37	19 32	1 39	14 19	16 25	23 13	23 14	24 27	9 22	1 22			
T 5	22 49	1 45	4 51	17 19	2 11	20 23	1 34	0 54	2 55	18 19	0 40	22 19	1 5	6 52	0 37	19 32	1 39	14 18	16 24	23 13	23 14	24 26	9 22	1 22			
F 6	22 44	3s49	5 13	17 2	2 26	20 6	1 35	1 8	2 56	18 21	0 40	22 20	1 5	6 52	0 37	19 32	1 39	14 17	16 24	23 13	23 14	24 26	9 22	1 22			
S 7	22 38	9 3	5 17	16 47	2 42	19 47	1 36	1 21	2 58	18 23	0 41	22 20	1 4	6 52	0 37	19 31	1 39	14 17	16 23	23 13	23 14	24 25	9 23	1 22			
S 8	22 31	13 46	5 6	16 33	2 57	19 29	1 36	1 35	2 59	18 25	0 41	22 20	1 4	6 52	0 37	19 31	1 39	14 16	16 23	23 13	23 15	24 24	9 23	1 22			
M 9	22 24	17 47	4 41	16 21	3 12	19 9	1 36	1 48	3 0	18 27	0 41	22 20	1 4	6 53	0 37	19 31	1 39	14 15	16 23	23 13	23 15	24 24	9 23	1 22			
T 10	22 17	21 0	4 3	16 10	3 26	18 49	1 37	2 1	3 1	18 29	0 41	22 21	1 4	6 53	0 37	19 31	1 39	14 14	16 22	23 13	23 15	24 23	9 24	1 22			
W 11	22 9	23 16	3 16	16 0	3 40	18 29	1 37	2 14	3 2	18 30	0 41	22 21	1 4	6 53	0 36	19 31	1 39	14 14	16 22	23 13	23 15	24 22	9 24	1 22			
T 12	22 1	24 29	2 21	15 52	3 53	18 8	1 37	2 27	3 3	18 32	0 41	22 21	1 4	6 54	0 36	19 31	1 39	14 13	16 21	23 13	23 15	24 22	9 24	1 22			
F 13	21 53	24 36	1 19	15 46	4 5	17 47	1 37	2 40	3 4	18 34	0 42	22 21	1 4	6 54	0 36	19 31	1 39	14 12	16 21	23 13	23 15	24 21	9 24	1 22			
S 14	21 44	23 36	0 15	15 41	4 17	17 25	1 37	2 53	3 5	18 37	0 42	22 21	1 4	6 54	0 36	19 30	1 39	14 11	16 20	23 13	23 16	24 20	9 25	1 22			
S 15	21 35	21 32	0n51	15 38	4 27	17 3	1 37	3 6	3 6	18 39	0 42	22 21	1 4	6 55	0 36	19 30	1 39	14 10	16 20	23 13	23 16	24 20	9 25	1 22			
M 16	21 26	18 31	1 55	15 37	4 36	16 40	1 37	3 19	3 6	18 41	0 42	22 22	1 4	6 55	0 36	19 30	1 39	14 9	16 19	23 13	23 16	24 19	9 25	1 22			
T 17	21 16	14 42	2 54	15 37	4 43	16 17	1 37	3 31	3 7	18 43	0 42	22 22	1 4	6 56	0 36	19 30	1 39	14 9	16 19	23 13	23 16	24 18	9 25	1 22			
W 18	21 6	10 13	3 46	15 39	4 49	15 53	1 37	3 44	3 8	18 45	0 43	22 22	1 4	6 56	0 36	19 30	1 39	14 8	16 18	23 13	23 16	24 18	9 25	1 22			
T 19	20 55	5 17	4 28	15 43	4 54	15 29	1 36	3 56	3 9	18 47	0 43	22 22	1 4	6 56	0 36	19 30	1 39	14 7	16 18	23 14	23 16	24 17	9 25	1 22			
F 20	20 44	0 3	4 58	15 48	4 57	15 5	1 36	4 8	3 10	18 49	0 43	22 22	1 4	6 57	0 36	19 30	1 39	14 6	16 18	23 14	23 17	24 16	9 26	1 22			
S 21	20 33	5n17	5 13	15 55	4 58	14 40	1 35	4 20	3 11	18 51	0 43	22 22	1 4	6 57	0 36	19 30	1 38	14 5	16 17	23 14	23 17	24 15	9 26	1 22			
S 22	20 21	10 29	5 13	16 3	4 57	14 15	1 35	4 32	3 12	18 53	0 43	22 22	1 4	6 58	0 36	19 30	1 38	14 4	16 17	23 14	23 17	24 15	9 26	1 22			
M 23	20 9	15 19	4 55	16 12	4 55	13 50	1 34	4 44	3 13	18 55	0 43	22 22	1 4	6 59	0 36	19 29	1 38	14 3	16 16	23 14	23 17	24 14	9 26	1 22			
T 24	19 57	19 29	4 21	16 22	4 51	13 24	1 33	4 55	3 14	18 57	0 44	22 22	1 4	6 59	0 36	19 29	1 38	14 2	16 16	23 14	23 17	24 13	9 26	1 22			
W 25	19 44	22 37	3 30	16 33	4 45	12 57	1 33	5 7	3 14	19 0	0 44	22 23	1 4	7 0	0 36	19 29	1 38	14 2	16 15	23 14	23 17	24 12	9 26	1 22			
T 26	19 31	24 22	2 24	16 45	4 38	12 31	1 32	5 18	3 15	19 2	0 44	22 23	1 4	7 0	0 36	19 29	1 38	14 1	16 15	23 14	23 17	24 12	9 26	1 22			
F 27	19 18	24 29	1 9	16 58	4 29	12 4	1 31	5 30	3 16	19 4	0 44	22 23	1 4	7 1	0 36	19 29	1 38	14 0	16 15	23 14	23 18	24 11	9 26	1 22			
S 28	19 4	22 52	0s13	17 11	4 19	11 37	1 30	5 41	3 17	19 6	0 44	22 23	1 4	7 1	0 36	19 29	1 38	13 59	16 14	23 14	23 18	24 10	9 26	1 22			
S 29	18 50	19 39	1 33	17 24	4 8	11 9	1 29	5 52	3 18	19 8	0 44	22 23	1 4	7 2	0 36	19 29	1 38	13 58	16 14	23 14	23 18	24 9	9 26	1 22			
M 30	18 36	15 10	2 47	17 38	3 55	10 42	1 27	6 2	3 18	19 10	0 44	22 23	1 4	7 3	0 36	19 29	1 38	13 57	16 13	23 14	23 18	24 9	9 25	1 22			
T 31	18n22	9n51	3s49	17n51	3s42	10n14	1n26	6n13	3s19	19s12	0s45	22n23	1s 4	7s 3	0n36	19s29	1n38	13n56	16n13	23s14	23s18	24s 8	9n25	1n22			

ASTRODIENST EPHEMERIS for the year 1973
geocentric

AUGUST 1973

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 37 51	8♌36'26	8♍34	22♊55	8♍20	24♋30	7♏ 1	29♊54	19♌28	4♏44	2♌20	7♏21	6♌ 2	28♌24	20♏53	W 1
T 2	20 41 47	9°33'51	22°31	23° 5	9°33	25° 0	6♌53	0♌ 0	19°30	4♏43	2°22	7♌16	5°58	28°31	20♏53	T 2
F 3	20 45 44	10°31'17	6♌ 1	23°22	10°45	25°30	6°45	0° 7	19°32	4°43	2°23	7°12	5°55	28°37	20°52	F 3
S 4	20 49 40	11°28'44	19° 6	23°44	11°57	26° 0	6°38	0°14	19°34	4°43	2°25	7° 8	5°52	28°44	20°52	S 4
S 5	20 53 37	12°26'12	1♌47	24°14	13° 9	26°29	6°30	0°20	19°36	4°42	2°27	7° 6	5°49	28°51	20°51	S 5
M 6	20 57 33	13°23'40	14° 7	24°49	14°22	26°58	6°22	0°27	19°38	4°42	2°28	7°D 6	5°46	28°57	20°50	M 6
T 7	21 1 30	14°21'09	26°12	25°32	15°34	27°27	6°14	0°33	19°40	4°42	2°30	7° 6	5°43	29° 4	20°50	T 7
W 8	21 5 27	15°18'39	8♌ 7	26°20	16°46	27°55	6° 7	0°39	19°42	4°41	2°32	7° 8	5°39	29°11	20°49	W 8
T 9	21 9 23	16°16'10	19°56	27°15	17°58	28°23	5°59	0°46	19°44	4°41	2°33	7° 9	5°36	29°17	20°48	T 9
F 10	21 13 20	17°13'42	1♌44	28°16	19°10	28°50	5°52	0°52	19°46	4°41	2°35	7°R10	5°33	29°24	20°47	F 10
S 11	21 17 16	18°11'15	13°35	29°23	20°22	29°17	5°44	0°58	19°48	4°41	2°37	7°10	5°30	29°30	20°46	S 11
S 12	21 21 13	19° 8'48	25°32	0♌36	21°34	29°44	5°37	1° 4	19°51	4°40	2°38	7° 9	5°27	29°37	20°46	S 12
M13	21 25 9	20° 6'23	7♌40	1°54	22°46	0♌10	5°30	1°10	19°53	4°40	2°40	7° 5	5°24	29°44	20°45	M13
T 14	21 29 6	21° 3'58	19°59	3°18	23°58	0°35	5°22	1°16	19°55	4°40	2°42	6°59	5°20	29°50	20°44	T 14
W15	21 33 2	22° 1'35	2♌30	4°47	25°10	1° 1	5°15	1°22	19°58	4°40	2°44	6°52	5°17	29°57	20°42	W15
T 16	21 36 59	22°59'13	15°15	6°20	26°21	1°25	5° 8	1°28	20° 0	4°40	2°46	6°44	5°14	0♌ 4	20°41	T 16
F 17	21 40 56	23°56'53	28°13	7°58	27°33	1°50	5° 1	1°34	20° 3	4°D40	2°48	6°36	5°11	0°10	20°40	F 17
S 18	21 44 52	24°54'34	11♋24	9°39	28°45	2°13	4°54	1°39	20° 5	4°40	2°50	6°29	5° 8	0°17	20°39	S 18
S 19	21 48 49	25°52'16	24°48	11°25	29°57	2°37	4°47	1°45	20° 8	4°40	2°51	6°24	5° 4	0°24	20°38	S 19
M20	21 52 45	26°50'01	8♌24	13°13	1♌ 8	2°59	4°41	1°51	20°10	4°40	2°53	6°20	5° 1	0°30	20°36	M20
T 21	21 56 42	27°47'46	22°11	15° 4	2°20	3°22	4°34	1°56	20°13	4°40	2°55	6°D18	4°58	0°37	20°35	T 21
W22	22 0 38	28°45'34	6♌11	16°57	3°31	3°43	4°28	2° 2	20°16	4°41	2°57	6°19	4°55	0°44	20°34	W22
T 23	22 4 35	29°43'24	20°22	18°53	4°43	4° 4	4°21	2° 7	20°18	4°41	2°59	6°19	4°52	0°50	20°32	T 23
F 24	22 8 31	0♌41'15	4♌44	20°49	5°54	4°25	4°15	2°12	20°21	4°41	3° 1	6°R20	4°49	0°57	20°31	F 24
S 25	22 12 28	1°39'08	19°12	22°47	7° 6	4°45	4° 9	2°18	20°24	4°41	3° 3	6°19	4°45	1° 3	20°29	S 25
S 26	22 16 25	2°37'02	3♌45	24°46	8°17	5° 4	4° 3	2°23	20°27	4°41	3° 5	6°17	4°42	1°10	20°27	S 26
M27	22 20 21	3°34'58	18°16	26°45	9°28	5°23	3°57	2°28	20°29	4°42	3° 7	6°11	4°39	1°17	20°26	M27
T 28	22 24 18	4°32'56	2♌39	28°44	10°40	5°41	3°51	2°33	20°32	4°42	3° 9	6° 4	4°36	1°23	20°24	T 28
W29	22 28 14	5°30'55	16°48	0♌43	11°51	5°58	3°46	2°38	20°35	4°43	3°11	5°55	4°33	1°30	20°22	W29
T 30	22 32 11	6°28'56	0♌39	2°41	13° 2	6°15	3°40	2°43	20°38	4°43	3°14	5°45	4°29	1°37	20°21	T 30
F 31	22 36 7	7♌26'59	14♌ 6	4♌40	14♌13	6♌31	3♌35	2♌47	20♌41	4♌43	3♌16	5♌35	4♌26	1♌43	20♏19	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 7	4n 7	4s34	18n 4	3s28	9n45	1n25	6n24	3s20	19s15	0s45	22n23	1s 4	7s 4	0n36	19s29
T 2	17 52	1s40	5 2	18 17	3 13	9 17	1 23	6 34	3 21	19 17	0 45	22 23	1 4	7 5	0 36	19 29
F 3	17 36	7 10	5 12	18 30	2 58	8 48	1 22	6 44	3 21	19 19	0 45	22 23	1 4	7 6	0 36	19 29
S 4	17 20	12 11	5 6	18 41	2 42	8 19	1 20	6 54	3 22	19 21	0 45	22 23	1 4	7 6	0 36	19 29
S 5	17 4	16 32	4 44	18 52	2 26	7 50	1 19	7 4	3 23	19 23	0 45	22 23	1 4	7 7	0 36	19 29
M 6	16 48	20 3	4 10	19 2	2 10	7 21	1 17	7 14	3 23	19 25	0 45	22 23	1 4	7 8	0 35	19 29
T 7	16 32	22 38	3 25	19 10	1 54	6 51	1 15	7 23	3 24	19 27	0 45	22 23	1 4	7 9	0 35	19 29
W 8	16 15	24 10	2 32	19 17	1 38	6 21	1 13	7 33	3 25	19 29	0 45	22 23	1 4	7 10	0 35	19 29
T 9	15 58	24 36	1 33	19 22	1 22	5 51	1 11	7 42	3 25	19 31	0 46	22 23	1 4	7 10	0 35	19 29
F 10	15 40	23 56	0 30	19 26	1 6	5 21	1 9	7 51	3 26	19 33	0 46	22 23	1 4	7 11	0 35	19 29
S 11	15 23	22 10	0n35	19 28	0 50	4 51	1 7	8 0	3 26	19 35	0 46	22 23	1 4	7 12	0 35	19 29
S 12	15 5	19 26	1 38	19 27	0 35	4 21	1 5	8 9	3 27	19 37	0 46	22 23	1 4	7 13	0 35	19 29
M13	14 47	15 49	2 38	19 24	0 21	3 50	1 3	8 18	3 27	19 38	0 46	22 23	1 4	7 14	0 35	19 29
T 14	14 29	11 29	3 31	19 19	0 7	3 20	1 1	8 26	3 28	19 40	0 46	22 23	1 4	7 15	0 35	19 29
W15	14 10	6 37	4 15	19 11	0n 7	2 49	0 58	8 34	3 28	19 42	0 46	22 22	1 4	7 16	0 35	19 29
T 16	13 51	1 24	4 47	19 0	0 19	2 18	0 56	8 42	3 29	19 44	0 46	22 22	1 4	7 17	0 35	19 29
F 17	13 32	3n57	5 4	18 47	0 31	1 48	0 54	8 50	3 29	19 46	0 46	22 22	1 4	7 18	0 35	19 29
S 18	13 13	9 13	5 7	18 31	0 42	1 17	0 51	8 58	3 30	19 48	0 46	22 22	1 4	7 19	0 35	19 29
S 19	12 54	14 8	4 52	18 12	0 53	0 46	0 48	9 6	3 30	19 49	0 46	22 22	1 4	7 20	0 35	19 29
M20	12 34	18 25	4 21	17 51	1 2	0 15	0 46	9 13	3 30	19 51	0 46	22 22	1 4	7 21	0 35	19 29
T 21	12 14	21 46	3 35	17 27	1 11	0s16	0 43	9 20	3 30	19 53	0 46	22 22	1 4	7 22	0 35	19 29
W22	11 54	23 53	2 35	17 0	1 18	0 47	0 40	9 27	3 31	19 54	0 47	22 22	1 4	7 23	0 35	19 29
T 23	11 34	24 30	1 25	16 31	1 25	1 18	0 37	9 34	3 31	19 56	0 47	22 22	1 4	7 24	0 35	19 30
F 24	11 14	23 30	0 9	15 59	1 30	1 49	0 34	9 41	3 31	19 57	0 47	22 22	1 4	7 25	0 35	19 30
S 25	10 53	20 56	1s 9	15 25	1 35	2 20	0 31	9 47	3 31	19 59	0 47	22 22	1 4	7 26	0 35	19 30
S 26	10 33	17 1	2 22	14 50	1 39	2 51	0 28	9 53	3 32	20 0	0 47	22 22	1 4	7 27	0 35	19 30
M27	10 12	12 6	3 25	14 12	1 44	3 22	0 25	9 59	3 32	20 2	0 47	22 21	1 4	7 28	0 35	19 30
T 28	9 51	6 34	4 15	13 33	1 42	3 53	0 22	10 5	3 32	20 3	0 47	22 21	1 4	7 29	0 35	19 30
W29	9 29	0 47	4 48	12 52	1 46	4 24	0 19	10 11	3 32	20 4	0 47	22 21	1 4	7 30	0 35	19 30
T 30	9 8	4s53	5 3	12 10	1 46	4 54	0 16	10 16	3 32	20 6	0 47	22 21	1 4	7 31	0 35	19 30
F 31	8n47	10s11	5s 1	11n27	1n46	5s25	0n12	10n22	3s32	20s 7	0s47	22n21	1s 4	7s33	0n35	19s30

Julian Day Number = 2441895.5, Delta T = 44.03 sec
Ecliptic obliquity = 23°26'35", Nutation = 0°00'18", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°22'17", Lahiri = 23°29'17"

ASTRODIENST EPHEMERIS for the year 1973
geocentric

SEPTEMBER 1973

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 40 4	8 ^h 25'02	27 ^h 10	6 ^h 37	15 ^h 25	6 ^h 47	3 ^h R30	2 ^h 52	20 ^h 44	4 ^h 44	3 ^h 18	5 ^h R27	4 ^h 23	1 ^h 50	20 ^h R17	S 1
S 2	22 44 0	9 ^h 23'07	9 ^h 52	8 ^h 34	16 ^h 36	7 ^h 1	3 ^h 25	2 ^h 57	20 ^h 47	4 ^h 44	3 ^h 20	5 ^h 21	4 ^h 20	1 ^h 57	20 ^h V15	S 2
M 3	22 47 57	10 ^h 21'14	22 ^h 13	10 ^h 30	17 ^h 47	7 ^h 15	3 ^h 20	3 ^h 1	20 ^h 50	4 ^h 45	3 ^h 22	5 ^h 17	4 ^h 17	2 ^h 3	20 ^h 13	M 3
T 4	22 51 54	11 ^h 19'22	4 ^h 18	12 ^h 25	18 ^h 58	7 ^h 29	3 ^h 15	3 ^h 6	20 ^h 53	4 ^h 46	3 ^h 24	5 ^h 16	4 ^h 14	2 ^h 10	20 ^h 11	T 4
W 5	22 55 50	12 ^h 17'32	16 ^h 13	14 ^h 19	20 ^h 8	7 ^h 41	3 ^h 11	3 ^h 10	20 ^h 56	4 ^h 46	3 ^h 26	5 ^h D15	4 ^h 10	2 ^h 17	20 ^h 9	W 5
T 6	22 59 47	13 ^h 15'43	28 ^h 2	16 ^h 11	21 ^h 19	7 ^h 53	3 ^h 6	3 ^h 14	21 ^h 0	4 ^h 47	3 ^h 28	5 ^h 16	4 ^h 7	2 ^h 23	20 ^h 7	T 6
F 7	23 3 43	14 ^h 13'56	9 ^h 50	18 ^h 3	22 ^h 30	8 ^h 4	3 ^h 2	3 ^h 19	21 ^h 3	4 ^h 47	3 ^h 31	5 ^h R16	4 ^h 4	2 ^h 30	20 ^h 5	F 7
S 8	23 7 40	15 ^h 12'10	21 ^h 44	19 ^h 54	23 ^h 41	8 ^h 15	2 ^h 58	3 ^h 23	21 ^h 6	4 ^h 48	3 ^h 33	5 ^h 15	4 ^h 1	2 ^h 36	20 ^h 3	S 8
S 9	23 11 36	16 ^h 10'25	3 ^h 47	21 ^h 43	24 ^h 51	8 ^h 24	2 ^h 54	3 ^h 27	21 ^h 9	4 ^h 49	3 ^h 35	5 ^h 11	3 ^h 58	2 ^h 43	20 ^h 1	S 9
M10	23 15 33	17 ^h 8'42	16 ^h 3	23 ^h 31	26 ^h 2	8 ^h 33	2 ^h 51	3 ^h 31	21 ^h 13	4 ^h 50	3 ^h 37	5 ^h 5	3 ^h 55	2 ^h 50	19 ^h 59	M10
T 11	23 19 29	18 ^h 7'01	28 ^h 35	25 ^h 19	27 ^h 13	8 ^h 41	2 ^h 47	3 ^h 34	21 ^h 16	4 ^h 50	3 ^h 40	4 ^h 57	3 ^h 51	2 ^h 56	19 ^h 57	T 11
W12	23 23 26	19 ^h 5'21	11 ^h 24	27 ^h 5	28 ^h 23	8 ^h 49	2 ^h 44	3 ^h 38	21 ^h 19	4 ^h 51	3 ^h 42	4 ^h 46	3 ^h 48	3 ^h 3	19 ^h 54	W12
T 13	23 27 22	20 ^h 3'44	24 ^h 30	28 ^h 50	29 ^h 33	8 ^h 55	2 ^h 41	3 ^h 42	21 ^h 22	4 ^h 52	3 ^h 44	4 ^h 34	3 ^h 45	3 ^h 10	19 ^h 52	T 13
F 14	23 31 19	21 ^h 2'08	7 ^h 52	0 ^h 33	0 ^h 44	9 ^h 1	2 ^h 38	3 ^h 45	21 ^h 26	4 ^h 53	3 ^h 46	4 ^h 22	3 ^h 42	3 ^h 16	19 ^h 50	F 14
S 15	23 35 16	22 ^h 0'34	21 ^h 26	2 ^h 16	1 ^h 54	9 ^h 5	2 ^h 35	3 ^h 49	21 ^h 29	4 ^h 54	3 ^h 48	4 ^h 11	3 ^h 39	3 ^h 23	19 ^h 48	S 15
S 16	23 39 12	22 ^h 59'02	5 ^h 11	3 ^h 58	3 ^h 4	9 ^h 9	2 ^h 33	3 ^h 52	21 ^h 33	4 ^h 55	3 ^h 51	4 ^h 2	3 ^h 35	3 ^h 30	19 ^h 45	S 16
M17	23 43 9	23 ^h 57'32	19 ^h 4	5 ^h 38	4 ^h 14	9 ^h 12	2 ^h 30	3 ^h 55	21 ^h 36	4 ^h 56	3 ^h 53	3 ^h 55	3 ^h 32	3 ^h 36	19 ^h 43	M17
T 18	23 47 5	24 ^h 56'05	3 ^h 11	7 ^h 18	5 ^h 24	9 ^h 15	2 ^h 28	3 ^h 59	21 ^h 40	4 ^h 57	3 ^h 55	3 ^h 52	3 ^h 29	3 ^h 43	19 ^h 40	T 18
W19	23 51 2	25 ^h 54'39	17 ^h 5	8 ^h 56	6 ^h 34	9 ^h 16	2 ^h 26	4 ^h 2	21 ^h 43	4 ^h 58	3 ^h 58	3 ^h 50	3 ^h 26	3 ^h 50	19 ^h 38	W19
T 20	23 54 58	26 ^h 53'17	1 ^h 50	10 ^h 34	7 ^h 44	9 ^h R16	2 ^h 25	4 ^h 5	21 ^h 47	4 ^h 59	4 ^h 0	3 ^h 50	3 ^h 23	3 ^h 56	19 ^h 36	T 20
F 21	23 58 55	27 ^h 51'56	15 ^h 18	12 ^h 10	8 ^h 54	9 ^h 16	2 ^h 23	4 ^h 8	21 ^h 50	5 ^h 0	4 ^h 2	3 ^h 50	3 ^h 20	4 ^h 3	19 ^h 33	F 21
S 22	0 2 51	28 ^h 50'37	29 ^h 27	13 ^h 46	10 ^h 4	9 ^h 14	2 ^h 22	4 ^h 10	21 ^h 54	5 ^h 1	4 ^h 4	3 ^h 48	3 ^h 16	4 ^h 10	19 ^h 31	S 22
S 23	0 6 48	29 ^h 49'21	13 ^h 35	15 ^h 20	11 ^h 14	9 ^h 12	2 ^h 20	4 ^h 13	21 ^h 57	5 ^h 2	4 ^h 7	3 ^h 44	3 ^h 13	4 ^h 16	19 ^h 28	S 23
M24	0 10 45	0 ^h 48'07	27 ^h 41	16 ^h 54	12 ^h 23	9 ^h 9	2 ^h 19	4 ^h 16	22 ^h 1	5 ^h 4	4 ^h 9	3 ^h 37	3 ^h 10	4 ^h 23	19 ^h 25	M24
T 25	0 14 41	1 ^h 46'55	11 ^h 39	18 ^h 26	13 ^h 33	9 ^h 5	2 ^h 19	4 ^h 18	22 ^h 4	5 ^h 5	4 ^h 11	3 ^h 28	3 ^h 7	4 ^h 29	19 ^h 23	T 25
W26	0 18 38	2 ^h 45'44	25 ^h 27	19 ^h 58	14 ^h 42	9 ^h 0	2 ^h 18	4 ^h 20	22 ^h 8	5 ^h 6	4 ^h 14	3 ^h 16	3 ^h 4	4 ^h 36	19 ^h 20	W26
T 27	0 22 34	3 ^h 44'36	9 ^h 0	21 ^h 29	15 ^h 52	8 ^h 54	2 ^h 18	4 ^h 23	22 ^h 12	5 ^h 7	4 ^h 16	3 ^h 3	3 ^h 1	4 ^h 43	19 ^h 18	T 27
F 28	0 26 31	4 ^h 43'30	22 ^h 15	22 ^h 59	17 ^h 1	8 ^h 47	2 ^h 17	4 ^h 25	22 ^h 15	5 ^h 9	4 ^h 18	2 ^h 51	2 ^h 57	4 ^h 49	19 ^h 15	F 28
S 29	0 30 27	5 ^h 42'26	5 ^h 11	24 ^h 27	18 ^h 10	8 ^h 40	2 ^h D17	4 ^h 27	22 ^h 19	5 ^h 10	4 ^h 20	2 ^h 39	2 ^h 54	4 ^h 56	19 ^h 12	S 29
S 30	0 34 24	6 ^h 41'24	17 ^h 48	25 ^h 55	19 ^h 19	8 ^h 31	2 ^h 18	4 ^h 29	22 ^h 23	5 ^h 11	4 ^h 23	2 ^h 31	2 ^h 51	5 ^h 3	19 ^h V10	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	decl	lat	
S 1	8n25	14s52	4s43	10n43	1n46	5s56	0n 9	10n27	3s32	20s 8	0s47	22n21	1s 4	7s34	0n35	19s31	1n36	13n24	16n 4	23s20	23s22	23s40	9n11	1n22						
S 2	8 3	18 45	4 11	9 58	1 44	6 26	0 6	10 31	3 32	20 9	0 47	22 21	1 4	7 35	0 35	19 31	1 36	13 23	16 4	23 20	23 22	23 39	9 11	1 22						
M 3	7 41	21 41	3 29	9 13	1 42	6 56	0 2	10 36	3 31	20 11	0 47	22 21	1 4	7 36	0 35	19 31	1 36	13 22	16 3	23 20	23 22	23 38	9 10	1 22						
T 4	7 19	23 35	2 37	8 27	1 40	7 27	0s 1	10 41	3 31	20 12	0 47	22 20	1 4	7 37	0 35	19 31	1 36	13 21	16 3	23 20	23 23	23 37	9 9	1 22						
W 5	6 57	24 23	1 40	7 40	1 37	7 57	0 5	10 45	3 31	20 13	0 47	22 20	1 4	7 38	0 35	19 31	1 36	13 20	16 3	23 20	23 23	23 36	9 8	1 22						
T 6	6 35	24 4	0 39	6 53	1 34	8 27	0 8	10 49	3 31	20 14	0 47	22 20	1 4	7 40	0 35	19 31	1 36	13 19	16 3	23 20	23 23	23 35	9 8	1 22						
F 7	6 12	22 40	0n24	6 6	1 30	8 56	0 12	10 53	3 30	20 15	0 47	22 20	1 4	7 41	0 35	19 32	1 36	13 18	16 3	23 20	23 23	23 34	9 7	1 22						
S 8	5 50	20 16	1 27	5 19	1 25	9 26	0 15	10 56	3 30	20 16	0 47	22 20	1 4	7 42	0 35	19 32	1 36	13 18	16 3	23 20	23 23	23 33	9 6	1 22						
S 9	5 27	16 57	2 26	4 31	1 21	9 55	0 19	11 0	3 30	20 16	0 47	22 20	1 4	7 43	0 34	19 32	1 36	13 17	16 3	23 20	23 23	23 32	9 5	1 22						
M10	5 5	12 52	3 19	3 44	1 16	10 24	0 23	11 3	3 29	20 17	0 47	22 20	1 4	7 45	0 34	19 32	1 36	13 16	16 2	23 21	23 23	23 31	9 4	1 22						
T 11	4 42	8 9	4 3	2 57	1 10	10 53	0 26	11 6	3 29	20 18	0 47	22 20	1 4	7 46	0 34	19 32	1 36	13 15	16 2	23 21	23 23	23 30	9 3	1 22						
W12	4 19	3 1	4 37	2 9	1 5	11 22	0 30	11 9	3 28	20 19	0 47	22 19	1 4	7 47	0 34	19 33	1 35	13 14	16 2	23 21	23 23	23 29	9 3	1 22						
T 13	3 56	2n21	4 57	1 22	0 59	11 51	0 34	11 12	3 27	20 20	0 47	22 19	1 4	7 48	0 34	19 33	1 35	13 13	16 2	23 22	23 23	23 27	9 2	1 21						
F 14	3 33	7 43	5 1	0 35	0 53	12 19	0 37	11 14	3 27	20 20	0 47	22 19	1 4	7 50	0 34	19 33	1 35	13 12	16 2	23 22	23 23	23 26	9 1	1 21						
S 15	3 10	12 48	4 48	0s11	0 47	12 47	0 41	11 17	3 26	20 21	0 47	22 19	1 4	7 51	0 34	19 33	1 35	13 11	16 2	23 23	23 24	23 25	9 0	1 21						
S 16	2 47	17 18	4 18	0 57	0 40	13 15	0 45	11 19	3 25	20 21	0 47	22 19	1 4	7 52	0 34	19 33	1 35	13 10	16 2	23 23	23 24	23 24	8 59	1 21						
M17	2 24	20 54	3 33	1 43	0 34	13 42	0 49	11 20	3 24	20 22	0 47	22 19	1 4	7 53	0 34	19 34	1 35	13 9	16 2	23 23	23 24	23 23	8 58	1 21						
T 18	2 1	23 18	2 35	2 29	0 27	14 9	0 53	11 22	3 23	20 22	0 47	22 19	1 4	7 55	0 34	19 34	1 35	13 8	16 2	23 23	23 24	23 22	8 57	1 21						
W19	1 38	24 16	1 28	3 14	0 20	14 36	0 56	11 23	3 22	20 23	0 47	22 19	1 4	7 56	0 34	19 34	1 35	13 7	16 2	23 23	23 24	23 21	8 56	1 21						
T 20	1 14	23 40	0 14	3 59	0 13	15 3	1 0	11 25	3 21	20 23	0 47	22 18	1 4	7 57	0 34	19 34	1 35	13 6	16 2	23 23	23 24	23 20	8 55	1 21						
F 21	0 51	21 34	1s 0	4 43	0 6	15 29	1 4	11 26	3 20	20 24	0 47	22 18	1 4	7 59	0 34	19 35	1 35	13 5	16 2	23 23	23 24	23 19	8 54	1 21						
S 22	0 28	18 8	2 11	5 27	0s 1	15 55	1 8	11 26	3 18	20 24	0 47	22 18	1 4	8 0	0 34	19 35	1 35	13 4	16 2	23 23	23 24	23 18	8 53	1 21						
S 23	0 4	13 39	3 14	6 10	0 9	16 20	1 12	11 27	3 17	20 24	0 47	22 18	1 4	8 1	0 34	19 35	1 35	13 3	16 2	23 23	23 24	23 17	8 52	1 21						
M24	0s19	8 28	4 4	6 53	0 16	16 45	1 16	11 27	3 16	20 24	0 47	22 18	1 4	8 3	0 34	19 35	1 35	13 2	16 2	23 24	23 24	23 16	8 51	1 21						
T 25	0 43	2 53	4 39	7 35	0 23	17 10	1 20	11 27	3 14	20 24	0 47	22 18	1 4	8 4	0 34	19 36	1 35	13 2	16 2	23 24	23 24	23 15	8 50	1 21						
W26	1 6	2s45	4 58	8 17	0 31	17 35	1 23	11 27	3 13	20 25	0 47	22 18	1 5	8 6	0 34	19 36	1 35	13 1	16 2	23 24	23 24	23 13	8 49	1 21						
T 27	1 29	8 9	4 59	8 58	0 38	17 59	1 27	11 27	3 11	20 25	0 47	22 18	1 5	8 7	0 34	19 36	1 35	13 0	16 2	23 24	23 25	23 12	8 48	1 21						
F 28	1 53	13 3	4 44	9 38	0 46	18 22	1 31	11 26	3 9	20 25	0 47	22 18	1 5	8 8	0 34	19 37	1 35	12 59	16 2	23 25	23 25	23 11	8 47	1 21						
S 29	2 16	17 14	4 14	10 18	0 53	18 46	1 35	11 26	3 7	20 25	0 47	22 18	1 5	8 10	0 34	19 37	1 35	12 58	16 2	23 25	23 25	23 10	8 46	1 21						
S 30	2s39	20s32	3s33	10s57	1s 0	19s 8	1s39	11n25	3s 6	20s25	0s47	22n17	1s 5	8s11	0n34	19s37	1n35	12n57	16n 2	23s25	23s25	23s 9	8n45	1n21						

ASTRODIENST EPHEMERIS for the year 1973

geocentric

OCTOBER 1973

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 38 20	7 ^h 40'24"	0 ^h 7' 6"	27 ^h 22' 22"	20 ^h 11' 28"	8°R22	2 ^h 22' 18"	4 ^h 31' 40"	22 ^h 26' 22"	5 ^h 13' 57"	4 ^h 25' 42"	2°R25	2 ^h 38' 23"	5 ^h 9' 53"	19°R 7	M 1
T 2	0 42 17	8°39'25"	12° 11'	28°48'	21°37'	8 ^h 12'	2°19'	4°32'	22°30'	5°14'	4°27'	2 ^h 32'	2°45'	5°16'	19°V 4	T 2
W 3	0 46 14	9°38'29"	24° 4'	0 ^h 11' 33"	22°46'	8° 1'	2°19'	4°34'	22°34'	5°16'	4°30'	2°20'	2°41'	5°23'	19° 2	W 3
T 4	0 50 10	10°37'34"	5 ^h 53'	1°37'	23°55'	7°49'	2°20'	4°36'	22°37'	5°17'	4°32'	2°20'	2°38'	5°29'	18°59'	T 4
F 5	0 54 7	11°36'41"	17°41'	3° 0'	25° 4'	7°36'	2°21'	4°37'	22°41'	5°19'	4°34'	2°20'	2°35'	5°36'	18°56'	F 5
S 6	0 58 3	12°35'50"	29°36'	4°22'	26°12'	7°23'	2°23'	4°38'	22°45'	5°20'	4°36'	2°19'	2°32'	5°43'	18°54'	S 6
S 7	1 2 0	13°35'00"	11 ^h 41'	5°43'	27°20'	7° 9'	2°24'	4°39'	22°49'	5°22'	4°39'	2°16'	2°29'	5°49'	18°51'	S 7
M 8	1 5 56	14°34'12"	24° 2'	7° 3'	28°29'	6°55'	2°26'	4°40'	22°52'	5°23'	4°41'	2°10'	2°26'	5°56'	18°48'	M 8
T 9	1 9 53	15°33'26"	6 ^h 42'	8°21'	29°37'	6°39'	2°28'	4°41'	22°56'	5°25'	4°43'	2° 2'	2°22'	6° 2'	18°45'	T 9
W10	1 13 49	16°32'42"	19°43'	9°38'	0 ^h 45'	6°23'	2°30'	4°42'	23° 0'	5°26'	4°46'	1°52'	2°19'	6° 9'	18°43'	W10
T11	1 17 46	17°32'00"	3 ^h 7'	10°54'	1°53'	6° 7'	2°33'	4°43'	23° 4'	5°28'	4°48'	1°40'	2°16'	6°16'	18°40'	T11
F12	1 21 43	18°31'19"	16°50'	12° 8'	3° 1'	5°50'	2°35'	4°44'	23° 7'	5°30'	4°50'	1°28'	2°13'	6°22'	18°37'	F12
S13	1 25 39	19°30'41"	0 ^h 8'49"	13°21'	4° 8'	5°32'	2°38'	4°44'	23°11'	5°31'	4°52'	1°17'	2°10'	6°29'	18°34'	S13
S14	1 29 36	20°30'05"	15° 1'	14°32'	5°16'	5°14'	2°41'	4°45'	23°15'	5°33'	4°55'	1° 8'	2° 6'	6°36'	18°32'	S14
M15	1 33 32	21°29'31"	29°19'	15°42'	6°23'	4°56'	2°44'	4°45'	23°19'	5°35'	4°57'	1° 2'	2° 3'	6°42'	18°29'	M15
T16	1 37 29	22°29'00"	13 ^h 39'	16°49'	7°31'	4°37'	2°47'	4°45'	23°22'	5°37'	4°59'	0°59'	2° 0'	6°49'	18°26'	T16
W17	1 41 25	23°28'30"	27°56'	17°54'	8°38'	4°18'	2°51'	4°R45	23°26'	5°38'	5° 1'	0°D58	1°57'	6°56'	18°24'	W17
T18	1 45 22	24°28'03"	12 ^h 59'	18°57'	9°45'	3°58'	2°54'	4°45'	23°30'	5°40'	5° 3'	0°58'	1°54'	7° 2'	18°21'	T18
F19	1 49 18	25°27'39"	26°15'	19°58'	10°51'	3°39'	2°58'	4°45'	23°34'	5°42'	5° 6'	0°R58	1°51'	7° 9'	18°18'	F19
S20	1 53 15	26°27'16"	10 ^h 14'	20°55'	11°58'	3°19'	3° 2'	4°45'	23°38'	5°44'	5° 8'	0°57'	1°47'	7°16'	18°15'	S20
S21	1 57 12	27°26'56"	24° 5'	21°50'	13° 5'	2°58'	3° 6'	4°44'	23°41'	5°46'	5°10'	0°54'	1°44'	7°22'	18°13'	S21
M22	2 1 8	28°26'38"	7 ^h 48'	22°41'	14°11'	2°38'	3°11'	4°44'	23°45'	5°48'	5°12'	0°49'	1°41'	7°29'	18°10'	M22
T23	2 5 5	29°26'23"	21°22'	23°28'	15°17'	2°18'	3°15'	4°43'	23°49'	5°49'	5°14'	0°41'	1°38'	7°35'	18° 7'	T23
W24	2 9 1	0 ^h 11' 26"	4 ^h 44'	24°11'	16°23'	1°58'	3°20'	4°43'	23°53'	5°51'	5°16'	0°31'	1°35'	7°42'	18° 5'	W24
T25	2 12 58	1°25'58"	17°54'	24°50'	17°29'	1°37'	3°25'	4°42'	23°56'	5°53'	5°19'	0°20'	1°32'	7°49'	18° 2'	T25
F26	2 16 54	2°25'48"	0 ^h 11' 49"	25°23'	18°35'	1°17'	3°30'	4°41'	24° 0'	5°55'	5°21'	0°10'	1°28'	7°55'	17°59'	F26
S27	2 20 51	3°25'41"	13°30'	25°51'	19°40'	0°57'	3°35'	4°40'	24° 4'	5°57'	5°23'	0° 0'	1°25'	8° 2'	17°57'	S27
S28	2 24 47	4°25'35"	25°56'	26°13'	20°45'	0°38'	3°41'	4°39'	24° 8'	5°59'	5°25'	29 ^h 53'	1°22'	8° 9'	17°54'	S28
M29	2 28 44	5°25'32"	8 ^h 7'	26°28'	21°50'	0°18'	3°46'	4°37'	24°11'	6° 1'	5°27'	29°48'	1°19'	8°15'	17°52'	M29
T30	2 32 40	6°25'30"	20° 8'	26°R35	22°55'	29°V59	3°52'	4°36'	24°15'	6° 3'	5°29'	29°45'	1°16'	8°22'	17°49'	T30
W31	2 36 37	7 ^h 11' 25"	2 ^h 30'	26 ^h 11' 35"	24 ^h 7' 0"	29°V40	3 ^h 58'	4 ^h 35'	24 ^h 19'	6 ^h 7' 5"	5 ^h 31'	29°D45	1 ^h 32'	8 ^h 29'	17°V46	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3 s 3	22s49	2s42	11s36	1 s 8	19s31	1s42	11n24	3 s 3	20s24	0s47	22n17	1 s 5	8s12	0n34	19s37
T 2	3 26	23 59	1 45	12 13	1 15	19 53	1 46	11 23	3 1	20 24	0 47	22 17	1 5	8 14	0 34	19 38
W 3	3 49	24 2	0 44	12 50	1 22	20 14	1 50	11 21	2 59	20 24	0 47	22 17	1 5	8 15	0 34	19 38
T 4	4 12	23 0	0n19	13 26	1 29	20 35	1 53	11 20	2 57	20 24	0 47	22 17	1 5	8 17	0 34	19 38
F 5	4 36	20 56	1 21	14 1	1 36	20 56	1 57	11 18	2 55	20 23	0 46	22 17	1 5	8 18	0 34	19 39
S 6	4 59	17 58	2 19	14 36	1 43	21 16	2 1	11 16	2 52	20 23	0 46	22 17	1 5	8 19	0 34	19 39
S 7	5 22	14 12	3 13	15 10	1 50	21 35	2 4	11 14	2 50	20 23	0 46	22 17	1 5	8 21	0 34	19 39
M 8	5 45	9 46	3 58	15 42	1 57	21 54	2 8	11 12	2 47	20 22	0 46	22 17	1 5	8 22	0 34	19 40
T 9	6 8	4 49	4 33	16 14	2 3	22 13	2 11	11 9	2 44	20 22	0 46	22 17	1 5	8 24	0 34	19 40
W10	6 30	0n27	4 55	16 45	2 10	22 31	2 15	11 7	2 41	20 21	0 46	22 17	1 5	8 25	0 34	19 40
T11	6 53	5 51	5 2	17 15	2 16	22 48	2 18	11 4	2 39	20 21	0 46	22 17	1 5	8 26	0 34	19 41
F12	7 16	11 5	4 51	17 44	2 22	23 5	2 22	11 1	2 36	20 20	0 46	22 17	1 5	8 28	0 34	19 41
S13	7 38	15 52	4 23	18 11	2 27	23 21	2 25	10 58	2 33	20 19	0 46	22 17	1 5	8 29	0 34	19 41
S14	8 1	19 49	3 39	18 38	2 33	23 37	2 28	10 55	2 29	20 19	0 46	22 16	1 5	8 31	0 34	19 42
M15	8 23	22 36	2 40	19 3	2 38	23 52	2 32	10 52	2 26	20 18	0 46	22 16	1 5	8 32	0 34	19 42
T16	8 45	23 57	1 31	19 27	2 42	24 7	2 35	10 49	2 23	20 17	0 46	22 16	1 5	8 33	0 34	19 42
W17	9 7	23 42	0 16	19 50	2 47	24 20	2 38	10 46	2 20	20 16	0 46	22 16	1 5	8 35	0 34	19 43
T18	9 29	21 54	0s59	20 12	2 51	24 34	2 41	10 42	2 16	20 15	0 46	22 16	1 5	8 36	0 34	19 43
F19	9 51	18 46	2 11	20 32	2 54	24 47	2 44	10 39	2 13	20 15	0 46	22 16	1 5	8 38	0 34	19 43
S20	10 13	14 34	3 13	20 50	2 58	24 59	2 47	10 36	2 9	20 14	0 46	22 16	1 5	8 39	0 34	19 44
S21	10 34	9 39	4 4	21 7	3 0	25 10	2 49	10 32	2 6	20 13	0 46	22 16	1 5	8 40	0 34	19 44
M22	10 55	4 18	4 40	21 23	3 2	25 21	2 52	10 29	2 2	20 11	0 46	22 16	1 5	8 42	0 34	19 44
T23	11 17	1s10	5 0	21 36	3 4	25 31	2 55	10 25	1 58	20 10	0 46	22 16	1 5	8 43	0 34	19 45
W24	11 38	6 31	5 3	21 48	3 4	25 41	2 57	10 22	1 55	20 9	0 46	22 16	1 5	8 45	0 34	19 45
T25	11 58	11 29	4 50	21 57	3 4	25 50	3 0	10 18	1 51	20 8	0 46	22 16	1 5	8 46	0 34	19 45
F26	12 19	15 51	4 22	22 4	3 3	25 59	3 2	10 15	1 47	20 7	0 46	22 16	1 5	8 47	0 34	19 46
S27	12 40	19 25	3 42	22 9	3 1	26 6	3 4	10 12	1 43	20 6	0 46	22 16	1 5	8 49	0 34	19 46
S28	13 0	22 1	2 51	22 12	2 58	26 13	3 7	10 8	1 39	20 4	0 45	22 16	1 5	8 50	0 34	19 47
M29	13 20	23 32	1 54	22 11	2 54	26 20	3 9	10 5	1 36	20 3	0 45	22 16	1 5	8 51	0 34	19 47
T30	13 40	23 56	0 52	22 7	2 48	26 26	3 11	10 2	1 32	20 1	0 45	22 16	1 5	8 53	0 34	19 47
W31	13s59	23s14	0n12	22s 1	2s42	26s31	3s12	9n59	1s28	20s 0	0s45	22n16	1 s 5	8s54	0n34	19s48

Julian Day Number = 2441956.5, Delta T = 44.21 sec

Ecliptic obliquity = 23°26'35", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°22'25", Lahiri = 23°29'25"

ASTRODIENST EPHEMERIS for the year 1973

geocentric

NOVEMBER 1973

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 40 34	8♈25'32	13♈47	26♈R26	25♈4	29♈R22	4♈4	4♈R33	24♈23	6♈7	5♈33	29♈46	1♈9	8♈35	17♈R44	T 1
F 2	2 44 30	9°25'35	25°34	26♈7	26°8	29♈4	4°11	4♈31	24°26	6°9	5°35	29°47	1°6	8°42	17♈41	F 2
S 3	2 48 27	10°25'40	7♈27	25°40	27°12	28°47	4°17	4°30	24°30	6°11	5°37	29°R48	1°3	8°49	17°39	S 3
S 4	2 52 23	11°25'46	19°31	25°2	28°16	28°30	4°24	4°28	24°34	6°13	5°39	29°48	1°0	8°55	17°36	S 4
M 5	2 56 20	12°25'54	1♈51	24°15	29°19	28°14	4°30	4°26	24°37	6°16	5°41	29°45	0°57	9°2	17°34	M 5
T 6	3 0 16	13°26'03	14°32	23°19	0♈22	27°58	4°37	4°24	24°41	6°18	5°43	29°41	0°53	9°9	17°32	T 6
W 7	3 4 13	14°26'14	27°36	22°15	1°25	27°43	4°45	4°21	24°44	6°20	5°45	29°36	0°50	9°15	17°29	W 7
T 8	3 8 9	15°26'27	11♈6	21°4	2°27	27°28	4°52	4°19	24°48	6°22	5°47	29°28	0°47	9°22	17°27	T 8
F 9	3 12 6	16°26'41	25°1	19°48	3°29	27°15	4°59	4°17	24°52	6°24	5°48	29°21	0°44	9°28	17°25	F 9
S 10	3 16 3	17°26'57	9♈19	18°28	4°31	27°2	5°7	4°14	24°55	6°26	5°50	29°14	0°41	9°35	17°22	S 10
S 11	3 19 59	18°27'14	23°53	17°9	5°32	26°49	5°14	4°11	24°59	6°28	5°52	29°9	0°38	9°42	17°20	S 11
M12	3 23 56	19°27'33	8♈37	15°51	6°34	26°38	5°22	4°9	25°2	6°31	5°54	29°5	0°34	9°48	17°18	M12
T 13	3 27 52	20°27'55	23°23	14°38	7°34	26°27	5°30	4°6	25°6	6°33	5°56	29°D 4	0°31	9°55	17°16	T 13
W14	3 31 49	21°28'18	8♈5	13°32	8°35	26°17	5°38	4°3	25°9	6°35	5°57	29°4	0°28	10°2	17°13	W14
T 15	3 35 45	22°28'42	22°37	12°35	9°35	26°8	5°47	4°0	25°13	6°37	5°59	29°5	0°25	10°8	17°11	T 15
F 16	3 39 42	23°29'09	6♈56	11°48	10°34	25°59	5°55	3°57	25°16	6°39	6°1	29°7	0°22	10°15	17°9	F 16
S 17	3 43 39	24°29'38	20°58	11°12	11°33	25°51	6°4	3°54	25°20	6°42	6°3	29°R 7	0°18	10°22	17°7	S 17
S 18	3 47 35	25°30'08	4♈45	10°48	12°32	25°44	6°12	3°51	25°23	6°44	6°4	29°7	0°15	10°28	17°5	S 18
M19	3 51 32	26°30'40	18°15	10°35	13°30	25°38	6°21	3°47	25°27	6°46	6°6	29°5	0°12	10°35	17°3	M19
T 20	3 55 28	27°31'14	1♈30	10°D34	14°28	25°33	6°30	3°44	25°30	6°48	6°8	29°2	0°9	10°42	17°1	T 20
W21	3 59 25	28°31'50	14°31	10°44	15°26	25°28	6°39	3°40	25°33	6°50	6°9	28°57	0°6	10°48	16°59	W21
T 22	4 3 21	29°32'27	27°18	11°4	16°22	25°25	6°48	3°37	25°37	6°53	6°11	28°52	0°3	10°55	16°57	T 22
F 23	4 7 18	0♈33'06	9♈53	11°33	17°19	25°22	6°58	3°33	25°40	6°55	6°12	28°47	29♈59	11°2	16°56	F 23
S 24	4 11 14	1°33'47	22°16	12°10	18°15	25°20	7°7	3°29	25°43	6°57	6°14	28°43	29°56	11°8	16°54	S 24
S 25	4 15 11	2°34'29	4♈48	12°54	19°10	25°19	7°17	3°25	25°46	6°59	6°15	28°39	29°53	11°15	16°52	S 25
M26	4 19 7	3°35'13	16°30	13°45	20°4	25°D18	7°27	3°21	25°50	7°2	6°17	28°37	29°50	11°21	16°50	M26
T 27	4 23 4	4°35'57	28°25	14°42	20°58	25°19	7°36	3°18	25°53	7°4	6°18	28°D37	29°47	11°28	16°49	T 27
W28	4 27 1	5°36'43	10♈14	15°44	21°52	25°20	7°46	3°13	25°56	7°6	6°20	28°37	29°44	11°35	16°47	W28
T 29	4 30 57	6°37'30	22°0	16°50	22°45	25°22	7°57	3°9	25°59	7°8	6°21	28°38	29°40	11°41	16°46	T 29
F 30	4 34 54	7♈38'19	3♈48	17♈59	23♈37	25♈25	8♈7	3♈5	26♈2	7♈11	6♈22	28♈40	29♈37	11♈48	16♈44	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s19	21s29	1n15	21s51	2s33	26s35	3s14	9n57	1s24	19s58	0s45	22n16	1s5	8s55	0n34	19s48
F 2	14 38	18 49	2 15	21 37	2 23	26 39	3 16	9 54	1 20	19 57	0 45	22 17	1 5	8 57	0 34	19 48
S 3	14 57	15 21	3 9	21 19	2 12	26 42	3 17	9 51	1 16	19 55	0 45	22 17	1 5	8 58	0 34	19 49
S 4	15 16	11 13	3 56	20 57	1 59	26 45	3 19	9 49	1 12	19 54	0 45	22 17	1 5	9 0	0 34	19 49
M 5	15 34	6 33	4 34	20 31	1 44	26 46	3 20	9 47	1 8	19 52	0 45	22 17	1 5	9 1	0 34	19 50
T 6	15 52	1 30	4 59	20 1	1 27	26 48	3 21	9 45	1 5	19 50	0 45	22 17	1 5	9 2	0 34	19 50
W 7	16 10	3n46	5 9	19 27	1 9	26 48	3 22	9 43	1 1	19 49	0 45	22 17	1 5	9 4	0 34	19 50
T 8	16 28	9 2	5 3	18 50	0 50	26 48	3 23	9 41	0 57	19 47	0 45	22 17	1 5	9 5	0 34	19 51
F 9	16 45	14 1	4 39	18 10	0 30	26 47	3 24	9 40	0 53	19 45	0 45	22 17	1 5	9 6	0 34	19 51
S 10	17 3	18 21	3 57	17 29	0 10	26 46	3 24	9 39	0 50	19 43	0 45	22 17	1 5	9 7	0 34	19 51
S 11	17 19	21 39	3 0	16 47	0n11	26 44	3 25	9 37	0 46	19 41	0 45	22 17	1 5	9 9	0 34	19 52
M12	17 36	23 32	1 49	16 5	0 31	26 42	3 25	9 37	0 42	19 39	0 45	22 17	1 5	9 10	0 34	19 52
T 13	17 52	23 47	0 31	15 25	0 1	26 38	3 25	9 36	0 39	19 37	0 45	22 17	1 5	9 11	0 34	19 53
W14	18 8	22 23	0s49	14 49	1 9	26 35	3 25	9 36	0 35	19 35	0 45	22 17	1 5	9 13	0 34	19 53
T 15	18 24	19 29	2 5	14 16	1 25	26 30	3 25	9 36	0 32	19 33	0 45	22 18	1 5	9 14	0 34	19 53
F 16	18 39	15 27	3 12	13 47	1 40	26 25	3 25	9 36	0 29	19 31	0 45	22 18	1 5	9 15	0 34	19 54
S 17	18 54	10 37	4 6	13 24	1 52	26 20	3 24	9 36	0 25	19 29	0 45	22 18	1 5	9 16	0 34	19 54
S 18	19 8	5 21	4 45	13 7	2 3	26 14	3 23	9 37	0 22	19 27	0 45	22 18	1 5	9 18	0 34	19 55
M19	19 23	0s 4	5 7	12 55	2 12	26 7	3 23	9 37	0 19	19 24	0 45	22 18	1 5	9 19	0 34	19 55
T 20	19 37	5 22	5 12	12 48	2 18	26 0	3 21	9 38	0 16	19 22	0 45	22 18	1 5	9 20	0 34	19 55
W21	19 50	10 21	5 1	12 46	2 23	25 52	3 20	9 40	0 12	19 20	0 45	22 18	1 5	9 21	0 34	19 56
T 22	20 3	14 48	4 35	12 49	2 27	25 44	3 19	9 41	0 9	19 18	0 45	22 18	1 5	9 22	0 34	19 56
F 23	20 16	18 31	3 56	12 57	2 28	25 35	3 17	9 43	0 6	19 15	0 44	22 18	1 5	9 24	0 34	19 56
S 24	20 29	21 21	3 7	13 7	2 29	25 25	3 15	9 45	0 3	19 13	0 44	22 19	1 5	9 25	0 34	19 57
S 25	20 41	23 9	2 9	13 22	2 28	25 16	3 13	9 47	0 0	19 10	0 44	22 19	1 5	9 26	0 34	19 57
M26	20 52	23 51	1 6	13 39	2 26	25 5	3 11	9 50	0n 2	19 8	0 44	22 19	1 5	9 27	0 34	19 58
T 27	21 4	23 27	0 1	13 58	2 23	24 55	3 9	9 52	0 5	19 5	0 44	22 19	1 5	9 28	0 34	19 58
W28	21 15	21 59	1n 4	14 19	2 20	24 43	3 6	9 55	0 8	19 3	0 44	22 19	1 5	9 29	0 34	19 58
T 29	21 25	19 35	2 6	14 42	2 16	24 32	3 3	9 58	0 10	19 0	0 44	22 19	1 5	9 30	0 34	19 59
F 30	21s35	16s21	3n 2	15s 6	2n11	24s20	3s 0	10n 2	0n13	18s57	0s44	22n19	1s 5	9s32	0n34	19s59

Julian Day Number = 2441987.5, Delta T = 44.31 sec

Ecliptic obliquity = 23°26'34", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°22'29", Lahiri = 23°29'30"

ASTRODIENST EPHEMERIS for the year 1973
geocentric

DECEMBER 1973

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 50	8♂39°08	15♂40	19♂12	24♂28	25♂28	8♂17	3°R 1	26♂ 5	7♂13	6♂24	28♂42	29♂34	11♂55	16°R43	S 1
S 2	4 42 47	9°39'58	27°42	20°28	25°19	25°33	8°28	2♂57	26° 8	7°15	6°25	28°43	29°31	12° 1	16♂41	S 2
M 3	4 46 43	10°40'48	9♂59	21°46	26° 8	25°38	8°38	2°52	26°11	7°18	6°26	28°R44	29°28	12° 8	16°40	M 3
T 4	4 50 40	11°41'40	22°34	23° 6	26°57	25°43	8°49	2°48	26°14	7°20	6°27	28°43	29°24	12°15	16°39	T 4
W 5	4 54 37	12°42'33	5♂33	24°28	27°46	25°50	8°59	2°43	26°17	7°22	6°29	28°42	29°21	12°21	16°37	W 5
T 6	4 58 33	13°43'26	18°58	25°52	28°33	25°57	9°10	2°39	26°20	7°24	6°30	28°40	29°18	12°28	16°36	T 6
F 7	5 2 30	14°44'20	2♂51	27°17	29°19	26° 5	9°21	2°34	26°23	7°27	6°31	28°38	29°15	12°35	16°35	F 7
S 8	5 6 26	15°45'15	17°10	28°42	0♂ 4	26°14	9°32	2°30	26°25	7°29	6°32	28°37	29°12	12°41	16°34	S 8
S 9	5 10 23	16°46'11	1♂53	0♂ 9	0°49	26°23	9°44	2°25	26°28	7°31	6°33	28°35	29° 9	12°48	16°33	S 9
M10	5 14 19	17°47'07	16°52	1°37	1°32	26°33	9°55	2°20	26°31	7°33	6°34	28°34	29° 5	12°55	16°32	M10
T 11	5 18 16	18°48'05	1♂59	3° 5	2°14	26°44	10° 6	2°16	26°34	7°35	6°35	28°D34	29° 2	13° 1	16°31	T 11
W12	5 22 12	19°49'04	17° 5	4°34	2°55	26°55	10°18	2°11	26°36	7°38	6°36	28°35	28°59	13° 8	16°30	W12
T 13	5 26 9	20°50'03	2♂ 1	6° 3	3°35	27° 7	10°29	2° 6	26°39	7°40	6°37	28°35	28°56	13°14	16°29	T 13
F 14	5 30 6	21°51'03	16°41	7°33	4°14	27°19	10°41	2° 1	26°41	7°42	6°38	28°36	28°53	13°21	16°28	F 14
S 15	5 34 2	22°52'05	0♂59	9° 3	4°51	27°32	10°53	1°56	26°44	7°44	6°39	28°37	28°50	13°28	16°28	S 15
S 16	5 37 59	23°53'07	14°53	10°34	5°27	27°46	11° 4	1°51	26°46	7°47	6°40	28°37	28°46	13°34	16°27	S 16
M17	5 41 55	24°54'10	28°24	12° 4	6° 2	28° 0	11°16	1°47	26°49	7°49	6°40	28°R37	28°43	13°41	16°26	M17
T 18	5 45 52	25°55'15	11♂33	13°36	6°35	28°15	11°28	1°42	26°51	7°51	6°41	28°37	28°40	13°48	16°26	T 18
W19	5 49 48	26°56'20	24°22	15° 7	7° 7	28°30	11°41	1°37	26°54	7°53	6°42	28°37	28°37	13°54	16°25	W19
T 20	5 53 45	27°57'26	6♂54	16°39	7°37	28°46	11°53	1°32	26°56	7°55	6°43	28°36	28°34	14° 1	16°25	T 20
F 21	5 57 41	28°58'33	19°13	18°11	8° 6	29° 2	12° 5	1°27	26°58	7°57	6°43	28°D36	28°30	14° 8	16°24	F 21
S 22	6 1 38	29°59'40	1♂21	19°43	8°33	29°19	12°17	1°22	27° 0	8° 0	6°44	28°37	28°27	14°14	16°24	S 22
S 23	6 5 35	1♂ 0'49	13°20	21°15	8°58	29°36	12°30	1°17	27° 3	8° 2	6°45	28°37	28°24	14°21	16°24	S 23
M24	6 9 31	2° 1'57	25°13	22°48	9°21	29°54	12°42	1°12	27° 5	8° 4	6°45	28°R37	28°21	14°28	16°23	M24
T 25	6 13 28	3° 3'06	7♂ 3	24°20	9°43	0♂12	12°55	1° 7	27° 7	8° 6	6°46	28°37	28°18	14°34	16°23	T 25
W26	6 17 24	4° 4'16	18°50	25°54	10° 3	0°31	13° 7	1° 2	27° 9	8° 8	6°46	28°36	28°15	14°41	16°23	W26
T 27	6 21 21	5° 5'26	0♂38	27°27	10°20	0°50	13°20	0°57	27°11	8°10	6°47	28°36	28°11	14°48	16°23	T 27
F 28	6 25 17	6° 6'35	12°29	29° 0	10°36	1°10	13°33	0°52	27°13	8°12	6°47	28°35	28° 8	14°54	16°D23	F 28
S 29	6 29 14	7° 7'45	24°24	0♂34	10°49	1°30	13°46	0°47	27°15	8°14	6°48	28°34	28° 5	15° 1	16°23	S 29
S 30	6 33 10	8° 8'55	6♂29	2° 8	11° 1	1°50	13°59	0°42	27°16	8°16	6°48	28°32	28° 2	15° 8	16°23	S 30
M31	6 37 7	9♂10'05	18♂45	3♂43	11♂10	2♂11	14♂12	0♂37	27♂18	8♂18	6♂48	28♂31	27♂59	15♂14	16♂23	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s45	12s27	3n52	15s31	2n 6	24s 7	2s56	10n 6	0n16	18s55	0s44	22n20	1s 5	9s33	0n34	20s 0	1n33	12n27	16n20	23s26	23s27	21s49	7n43	1n15	
S 2	21 54	8 1	4 32	15 57	2 0	23 54	2 53	10 9	0 18	18 52	0 44	22 20	1 5	9 34	0 34	20 0	1 33	12 27	16 21	23 26	23 27	21 47	7 42	1 15	
M 3	22 3	3 12	5 0	16 23	1 54	23 41	2 49	10 13	0 20	18 49	0 44	22 20	1 5	9 35	0 34	20 0	1 33	12 27	16 21	23 26	23 26	21 46	7 42	1 14	
T 4	22 11	1n52	5 15	16 49	1 47	23 28	2 45	10 18	0 23	18 46	0 44	22 20	1 5	9 36	0 34	20 1	1 33	12 27	16 22	23 26	23 26	21 44	7 41	1 14	
W 5	22 19	7 1	5 15	17 16	1 40	23 14	2 40	10 22	0 25	18 43	0 44	22 20	1 5	9 37	0 34	20 1	1 33	12 27	16 22	23 26	23 26	21 43	7 41	1 14	
T 6	22 27	12 1	4 57	17 43	1 34	23 0	2 36	10 27	0 27	18 40	0 44	22 20	1 5	9 38	0 34	20 1	1 33	12 27	16 23	23 26	23 26	21 41	7 40	1 14	
F 7	22 34	16 34	4 22	18 9	1 27	22 45	2 31	10 32	0 29	18 37	0 44	22 20	1 5	9 39	0 34	20 2	1 33	12 27	16 23	23 26	23 26	21 40	7 39	1 14	
S 8	22 41	20 19	3 30	18 35	1 19	22 30	2 26	10 37	0 32	18 35	0 44	22 21	1 5	9 40	0 34	20 2	1 33	12 27	16 24	23 26	23 26	21 38	7 39	1 14	
S 9	22 47	22 52	2 23	19 1	1 12	22 15	2 20	10 42	0 34	18 32	0 44	22 21	1 5	9 41	0 34	20 2	1 33	12 27	16 25	23 26	23 26	21 37	7 38	1 14	
M10	22 53	23 52	1 5	19 26	1 5	22 0	2 14	10 48	0 36	18 28	0 44	22 21	1 4	9 42	0 34	20 3	1 33	12 27	16 25	23 26	23 26	21 35	7 38	1 14	
T 11	22 58	23 7	0s19	19 50	0 57	21 45	2 8	10 53	0 38	18 25	0 44	22 21	1 4	9 43	0 34	20 3	1 33	12 27	16 26	23 26	23 26	21 34	7 37	1 13	
W12	23 3	20 41	1 41	20 14	0 50	21 29	2 2	10 59	0 39	18 22	0 44	22 21	1 4	9 44	0 34	20 4	1 33	12 27	16 26	23 26	23 26	21 32	7 37	1 13	
T 13	23 8	16 52	2 55	20 38	0 42	21 13	1 55	11 5	0 41	18 19	0 44	22 21	1 4	9 45	0 34	20 4	1 33	12 28	16 27	23 26	23 26	21 31	7 36	1 13	
F 14	23 12	12 4	3 57	21 0	0 35	20 57	1 48	11 11	0 43	18 16	0 44	22 21	1 4	9 46	0 34	20 4	1 33	12 28	16 27	23 26	23 26	21 29	7 36	1 13	
S 15	23 15	6 44	4 42	21 21	0 27	20 41	1 41	11 18	0 45	18 13	0 44	22 22	1 4	9 46	0 34	20 5	1 33	12 28	16 28	23 26	23 26	21 28	7 36	1 13	
S 16	23 18	1 12	5 9	21 42	0 20	20 25	1 33	11 24	0 47	18 9	0 44	22 22	1 4	9 47	0 34	20 5	1 33	12 28	16 28	23 26	23 26	21 26	7 35	1 13	
M17	23 21	4s14	5 18	22 2	0 13	20 9	1 25	11 31	0 48	18 6	0 44	22 22	1 4	9 48	0 34	20 5	1 33	12 28	16 29	23 26	23 26	21 25	7 35	1 13	
T 18	23 23	9 19	5 10	22 21	0 6	19 52	1 17	11 38	0 50	18 3	0 44	22 22	1 4	9 49	0 34	20 6	1 33	12 29	16 29	23 26	23 26	21 23	7 35	1 12	
W19	23 24	13 53	4 47	22 38	0s 2	19 36	1 8	11 45	0 51	17 59	0 44	22 22	1 4	9 50	0 34	20 6	1 33	12 29	16 30	23 26	23 26	21 22	7 34	1 12	
T 20	23 26	17 45	4 10	22 55	0 9	19 20	1 0	11 52	0 53	17 56	0 44	22 22	1 4	9 51	0 34	20 6	1 33	12 29	16 31	23 26	23 26	21 20	7 34	1 12	
F 21	23 26	20 46	3 22	23 10	0 16	19 3	0 50	11 59	0 54	17 53	0 44	22 22	1 4	9 51	0 34	20 7	1 33	12 29	16 31	23 26	23 26	21 19	7 34	1 12	
S 22	23 27	22 49	2 26	23 25	0 22	18 47	0 40	12 6	0 56	17 49	0 44	22 23	1 3	9 52	0 35	20 7	1 33	12 29	16 32	23 26	23 26	21 17	7 33	1 12	
S 23	23 26	23 48	1 24	23 38	0 29	18 30	0 30	12 14	0 57	17 46	0 44	22 23	1 3	9 53	0 35	20 7	1 33	12 30	16 32	23 26	23 26	21 16	7 33	1 12	
M24	23 26	23 40	0 19	23 50	0 36	18 14	0 20	12 21	0 59	17 42	0 44	22 23	1 3	9 54	0 35	20 8	1 33	12 30	16 33	23 26	23 26	21 14	7 33	1 12	
T 25	23 24	22 29	0n47	24 1	0 42	17 58	0 9	12 29	1 0	17 39	0 44	22 23	1 3	9 54	0 35	20 8	1 33	12 30	16 33	23 26	23 26	21 13	7 33	1 12	
W26	23 23	20 18	1 50	24 11	0 48	17 42	0n 2	12 37	1 1	17 35	0 44	22 23	1 3	9 55	0 35	20 8	1 33	12 31	16 34	23 26	23 26	21 11	7 32	1 11	
T 27	23 21	17 16	2 49	24 19	0 54	17 26	0 14	12 45	1 3	17 31	0 44	22 23	1 3	9 56	0 35	20 8	1 33	12 31	16 35	23 26	23 26	21 9	7 32	1 11	
F 28	23 18	13 32	3 40	24 27	1 0	17 10	0 25	12 53	1 4	17 28	0 44	22 24	1 3	9 57	0 35	20 9	1 33	12 31	16 35	23 26	23 26	21 8	7 32	1 11	
S 29	23 15	9 15	4 23	24 32	1 6	16 55	0 38	13 1	1 5	17 24	0 44	22 24	1 3	9 57	0 35	20 9	1 33	12 32	16 36	23 26	23 26	21 6	7 32	1 11	
S 30	23 12	4 35	4 54	24 37	1 11	16 40	0 50	13 9	1 6	17 20	0 44	22 24	1 3	9 58	0 35	20 9	1 33	12 32	16 36	23 26	23 26	21 5	7 32	1 11	
M31	23s 8	0n21	5n13	24s40	1s17	16s25	1n 3	13n17	1n 7	17s17	0s44	22n24	1s 3	9s58	0n35	20s10	1n33	12n33	16n37	23s26	23s26	21s 3	7n32	1n11	