



Astrodienst Ephemeris Tables for the year 2086

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 2086

geocentric

JANUARY 2086

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 44 31	11° 0' 48"	22° 33'	8° 25'	22° 46'	20° 21'	16° 47'	10° 32'	23° 36'	16° 18'	18° 25'	22° 42'	21° 42'	12° 40'	6° 13'	T 1
W 2	6 48 27	12° 1' 55"	4° 54'	10° 1'	22° 26'	20° 45'	16° 41'	10° 34'	23° 39'	15° 59'	18° 25'	22° 40'	21° 38'	12° 47'	6° 11'	W 2
T 3	6 52 24	13° 3' 03"	17° 4'	11° 37'	22° 9'	21° 29'	16° 36'	10° 37'	23° 41'	15° 58'	18° 25'	22° 36'	21° 35'	12° 53'	6° 8'	T 3
F 4	6 56 20	14° 4' 11"	29° 5'	13° 13'	21° 54'	22° 12'	16° 30'	10° 39'	23° 44'	15° 57'	18° 25'	22° 33'	21° 32'	13° 0'	6° 6'	F 4
S 5	7 0 17	15° 5' 19"	11° 0'	14° 50'	21° 42'	22° 56'	16° 24'	10° 42'	23° 47'	15° 55'	18° 25'	22° 29'	21° 29'	13° 7'	6° 3'	S 5
S 6	7 4 13	16° 6' 27"	22° 52'	16° 27'	21° 32'	23° 40'	16° 18'	10° 44'	23° 50'	15° 54'	18° 25'	22° 26'	21° 26'	13° 14'	6° 1'	S 6
M 7	7 8 10	17° 7' 36"	4° 45'	18° 4'	21° 24'	24° 23'	16° 12'	10° 47'	23° 53'	15° 53'	18° 26'	22° 24'	21° 23'	13° 20'	5° 58'	M 7
T 8	7 12 6	18° 8' 44"	16° 43'	19° 42'	21° 20'	25° 7'	16° 6'	10° 50'	23° 56'	15° 51'	18° 26'	22° 24'	21° 19'	13° 27'	5° 56'	T 8
W 9	7 16 3	19° 9' 53"	28° 51'	21° 20'	21° 17'	25° 51'	15° 59'	10° 52'	23° 59'	15° 50'	18° 26'	22° 24'	21° 16'	13° 34'	5° 54'	W 9
T 10	7 19 59	20° 11' 02"	11° 14'	22° 59'	21° 17'	26° 35'	15° 53'	10° 55'	24° 2'	15° 48'	18° 26'	22° 25'	21° 13'	13° 40'	5° 52'	T 10
F 11	7 23 56	21° 12' 11"	23° 57'	24° 38'	21° 20'	27° 19'	15° 46'	10° 59'	24° 5'	15° 47'	18° 26'	22° 27'	21° 10'	13° 47'	5° 50'	F 11
S 12	7 27 53	22° 13' 20"	7° 2'	26° 18'	21° 25'	28° 2'	15° 40'	11° 2'	24° 8'	15° 45'	18° 26'	22° 29'	21° 7'	13° 54'	5° 48'	S 12
S 13	7 31 49	23° 14' 29"	20° 33'	27° 58'	21° 32'	28° 46'	15° 33'	11° 5'	24° 11'	15° 44'	18° 27'	22° 30'	21° 4'	14° 1'	5° 46'	S 13
M14	7 35 46	24° 15' 38"	4° 30'	29° 38'	21° 41'	29° 30'	15° 26'	11° 8'	24° 14'	15° 42'	18° 27'	22° 29'	21° 0'	14° 7'	5° 44'	M14
T 15	7 39 42	25° 16' 47"	18° 50'	18° 19'	21° 53'	0° 14'	15° 19'	11° 12'	24° 17'	15° 41'	18° 27'	22° 27'	20° 57'	14° 14'	5° 42'	T 15
W16	7 43 39	26° 17' 55"	3° 29'	3° 0'	22° 7'	0° 58'	15° 12'	11° 15'	24° 20'	15° 39'	18° 28'	22° 23'	20° 54'	14° 21'	5° 40'	W16
T 17	7 47 35	27° 19' 03"	18° 19'	4° 41'	22° 23'	1° 43'	15° 4'	11° 19'	24° 24'	15° 37'	18° 28'	22° 18'	20° 51'	14° 28'	5° 38'	T 17
F 18	7 51 32	28° 20' 10"	3° 13'	6° 23'	22° 41'	2° 27'	14° 57'	11° 23'	24° 27'	15° 36'	18° 28'	22° 12'	20° 48'	14° 34'	5° 36'	F 18
S 19	7 55 29	29° 21' 17"	18° 2'	8° 4'	23° 1'	3° 11'	14° 49'	11° 27'	24° 30'	15° 34'	18° 29'	22° 7'	20° 44'	14° 41'	5° 35'	S 19
S 20	7 59 25	0° 22' 22"	2° 39'	9° 47'	23° 23'	3° 55'	14° 42'	11° 31'	24° 33'	15° 33'	18° 29'	22° 3'	20° 41'	14° 48'	5° 33'	S 20
M21	8 3 22	1° 23' 27"	16° 58'	11° 29'	23° 47'	4° 39'	14° 34'	11° 35'	24° 36'	15° 31'	18° 30'	22° 0'	20° 38'	14° 54'	5° 32'	M21
T 22	8 7 18	2° 24' 31"	0° 58'	13° 11'	24° 12'	5° 24'	14° 27'	11° 39'	24° 40'	15° 29'	18° 30'	21° 59'	20° 35'	15° 1'	5° 30'	T 22
W23	8 11 15	3° 25' 33"	14° 58'	14° 53'	24° 39'	6° 8'	14° 19'	11° 43'	24° 43'	15° 28'	18° 31'	21° 59'	20° 32'	15° 8'	5° 29'	W23
T 24	8 15 11	4° 26' 35"	27° 59'	16° 35'	25° 8'	6° 52'	14° 11'	11° 47'	24° 46'	15° 26'	18° 31'	22° 1'	20° 29'	15° 15'	5° 28'	T 24
F 25	8 19 8	5° 27' 36"	11° 2'	18° 16'	25° 38'	7° 37'	14° 3'	11° 52'	24° 50'	15° 24'	18° 32'	22° 2'	20° 25'	15° 21'	5° 26'	F 25
S 26	8 23 4	6° 28' 36"	23° 52'	19° 56'	26° 10'	8° 21'	13° 56'	11° 56'	24° 53'	15° 23'	18° 32'	22° 3'	20° 22'	15° 28'	5° 25'	S 26
S 27	8 27 1	7° 29' 35"	6° 29'	21° 36'	26° 44'	9° 6'	13° 48'	12° 1'	24° 56'	15° 21'	18° 33'	22° 1'	20° 19'	15° 35'	5° 24'	S 27
M28	8 30 58	8° 30' 33"	18° 56'	23° 15'	27° 19'	9° 50'	13° 40'	12° 5'	25° 0'	15° 19'	18° 33'	21° 58'	20° 16'	15° 42'	5° 23'	M28
T 29	8 34 54	9° 31' 30"	1° 14'	24° 51'	27° 55'	10° 35'	13° 32'	12° 10'	25° 3'	15° 18'	18° 34'	21° 52'	20° 13'	15° 48'	5° 22'	T 29
W30	8 38 51	10° 32' 26"	13° 24'	26° 27'	28° 32'	11° 19'	13° 24'	12° 15'	25° 6'	15° 16'	18° 35'	21° 44'	20° 10'	15° 55'	5° 21'	W30
T 31	8 42 47	11° 33' 21"	25° 27'	27° 59'	29° 11'	12° 3'	13° 16'	12° 20'	25° 10'	15° 14'	18° 35'	21° 35'	20° 7'	16° 2'	5° 20'	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22s58	18n58	2s37	24s43	1s33	18s52	4n22	23s23	0s20	16n31	0n45	1n54	2s28	14s19	0s42	16n6
W 2	22 53	15 36	3 32	24 40	1 37	18 42	4 31	23 27	0 20	16 33	0 45	1 55	2 28	14 18	0 42	16 6
T 3	22 47	11 38	4 16	24 36	1 42	18 32	4 40	23 30	0 21	16 35	0 45	1 56	2 28	14 17	0 42	16 7
F 4	22 41	7 16	4 48	24 31	1 45	18 24	4 47	23 34	0 22	16 37	0 46	1 57	2 28	14 16	0 42	16 7
S 5	22 34	2 41	5 8	24 24	1 49	18 16	4 55	23 37	0 22	16 39	0 46	1 58	2 27	14 15	0 42	16 7
S 6	22 27	1s59	5 14	24 16	1 52	18 9	5 1	23 40	0 23	16 41	0 46	1 59	2 27	14 14	0 42	16 8
M 7	22 20	6 35	5 7	24 7	1 55	18 3	5 7	23 42	0 24	16 43	0 46	2 1	2 27	14 13	0 42	16 8
T 8	22 12	10 58	4 46	23 56	1 58	17 57	5 12	23 45	0 24	16 45	0 46	2 2	2 27	14 12	0 42	16 9
W 9	22 4	15 0	4 13	23 43	2 0	17 52	5 17	23 47	0 25	16 47	0 47	2 3	2 26	14 11	0 42	16 9
T 10	21 55	18 28	3 27	23 29	2 2	17 48	5 21	23 49	0 26	16 49	0 47	2 5	2 26	14 10	0 42	16 10
F 11	21 45	21 10	2 30	23 13	2 4	17 44	5 25	23 50	0 26	16 51	0 47	2 6	2 26	14 9	0 42	16 10
S 12	21 36	22 51	1 24	22 56	2 5	17 42	5 28	23 52	0 27	16 53	0 47	2 8	2 26	14 8	0 42	16 10
S 13	21 26	23 16	0 11	22 37	2 6	17 39	5 31	23 53	0 28	16 55	0 47	2 9	2 25	14 7	0 42	16 11
M14	21 15	22 16	1n 5	22 17	2 7	17 38	5 33	23 54	0 28	16 58	0 48	2 11	2 25	14 6	0 42	16 11
T 15	21 4	19 49	2 19	21 55	2 7	17 37	5 35	23 54	0 29	17 0	0 48	2 12	2 25	14 5	0 42	16 12
W16	20 53	16 3	3 25	21 32	2 6	17 36	5 36	23 55	0 29	17 2	0 48	2 14	2 25	14 4	0 42	16 12
T 17	20 41	11 14	4 18	21 7	2 5	17 36	5 37	23 55	0 30	17 4	0 48	2 16	2 24	14 3	0 42	16 13
F 18	20 29	5 45	4 54	20 40	2 4	17 37	5 37	23 55	0 31	17 7	0 48	2 17	2 24	14 2	0 42	16 13
S 19	20 17	0n 2	5 10	20 12	2 2	17 38	5 37	23 55	0 31	17 9	0 48	2 19	2 24	14 1	0 42	16 14
S 20	20 4	5 43	5 5	19 43	2 0	17 39	5 37	23 54	0 32	17 11	0 49	2 21	2 24	14 0	0 42	16 14
M21	19 50	11 0	4 42	19 12	1 57	17 41	5 36	23 53	0 33	17 14	0 49	2 22	2 23	13 58	0 42	16 15
T 22	19 37	15 35	4 2	18 40	1 53	17 43	5 35	23 52	0 33	17 16	0 49	2 24	2 23	13 57	0 42	16 15
W23	19 23	19 13	3 9	18 6	1 49	17 45	5 34	23 51	0 34	17 19	0 49	2 26	2 23	13 56	0 42	16 16
T 24	19 8	21 45	2 7	17 31	1 44	17 48	5 33	23 50	0 35	17 21	0 49	2 28	2 23	13 55	0 42	16 16
F 25	18 54	23 4	0 59	16 55	1 39	17 51	5 31	23 48	0 35	17 23	0 49	2 30	2 23	13 54	0 42	16 17
S 26	18 39	23 7	0s10	16 17	1 32	17 54	5 29	23 46	0 36	17 26	0 49	2 32	2 22	13 53	0 42	16 17
S 27	18 23	21 59	1 17	15 39	1 25	17 57	5 27	23 43	0 37	17 28	0 50	2 34	2 22	13 52	0 42	16 18
M28	18 8	19 47	2 20	14 59	1 18	18 0	5 24	23 41	0 37	17 31	0 50	2 36	2 22	13 51	0 42	16 18
T 29	17 52	16 42	3 15	14 19	1 9	18 3	5 21	23 38	0 38	17 33	0 50	2 38	2 22	13 49	0 42	16 19
W30	17 35	12 57	4 1	13 38	1 0	18 7	5 18	23 35	0 39	17 35	0 50	2 40	2 22	13 48	0 42	16 19
T 31	17s19	8n43	4s35	12s57	0s50	18s10	5n15	23s32	0s39	17n38	0n50	2n42	2s21	13s47	0s42	16n20

Julian Day Number = 2482956.5, Delta T = 87.09 sec

Ecliptic obliquity = 23°25'39", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°56'31", Lahiri = 25°03'31"

ASTRODIENST EPHEMERIS for the year 2086

geocentric

FEBRUARY 2086

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 46 44	12 ³³ 41'15	7 ¹¹ 25	29 ²² 29	29 ²⁷ 51	12 ³⁸ 49	13°R 8	12 ¹² 24	25 ²² 13	15°R13	18 ¹⁷ 36	21°R24	20 ²⁷ 3	16 ¹¹ 8	5°R20	F 1
S 2	8 50 40	13°35'09	19°18	0 ¹¹ 55	0 ³³ 32	13°34	13 ⁰ 0	12°29	25°17	15 ⁰ 11	18°37	21 ¹⁴ 14	20°0	16°15	5 ¹¹ 19	S 2
S 3	8 54 37	14°36'01	1 ¹² 9	2°18	1°15	14°18	12°52	12°35	25°20	15°9	18°37	21°5	19°57	16°22	5°18	S 3
M 4	8 58 33	15°36'52	13°2	3°35	1°58	15°3	12°44	12°40	25°23	15°8	18°38	20°58	19°54	16°29	5°18	M 4
T 5	9 2 30	16°37'43	24°58	4°48	2°42	15°48	12°36	12°45	25°27	15°6	18°39	20°53	19°50	16°35	5°17	T 5
W 6	9 6 27	17°38'33	7 ¹¹ 3	5°54	3°28	16°33	12°28	12°50	25°30	15°4	18°39	20°50	19°47	16°42	5°17	W 6
T 7	9 10 23	18°39'21	19°21	6°53	4°14	17°18	12°20	12°56	25°34	15°3	18°40	20°D49	19°44	16°49	5°17	T 7
F 8	9 14 20	19°40'09	1 ¹² 58	7°44	5°1	18°3	12°12	13°1	25°37	15°1	18°41	20°50	19°41	16°55	5°16	F 8
S 9	9 18 16	20°40'57	14°57	8°27	5°49	18°47	12°4	13°7	25°41	14°59	18°42	20°R51	19°38	17°2	5°16	S 9
S 10	9 22 13	21°41'43	28°23	9°0	6°38	19°32	11°56	13°12	25°44	14°58	18°43	20°50	19°35	17°9	5°16	S 10
M 11	9 26 9	22°42'28	12 ³⁸ 18	9°24	7°28	20°18	11°49	13°18	25°48	14°56	18°44	20°48	19°31	17°16	5°D16	M 11
T 12	9 30 6	23°43'12	26°42	9°38	8°19	21°3	11°41	13°24	25°51	14°54	18°45	20°44	19°28	17°22	5°16	T 12
W 13	9 34 2	24°43'55	11 ²² 31	9°R41	9°10	21°48	11°33	13°30	25°55	14°53	18°45	20°37	19°25	17°29	5°16	W 13
T 14	9 37 59	25°44'36	26°39	9°33	10°2	22°33	11°26	13°35	25°58	14°51	18°46	20°28	19°22	17°36	5°16	T 14
F 15	9 41 56	26°45'16	11 ²² 55	9°15	10°54	23°18	11°18	13°41	26°2	14°49	18°47	20°17	19°19	17°43	5°16	F 15
S 16	9 45 52	27°45'55	27°7	8°47	11°48	24°3	11°11	13°47	26°5	14°48	18°48	20°7	19°15	17°49	5°17	S 16
S 17	9 49 49	28°46'31	12 ¹² 6	8°9	12°42	24°48	11°3	13°53	26°9	14°46	18°49	19°58	19°12	17°56	5°17	S 17
M 18	9 53 45	29°47'07	26°43	7°22	13°36	25°34	10°56	13°59	26°12	14°44	18°50	19°52	19°9	18°3	5°18	M 18
T 19	9 57 42	0 ¹¹ 47'40	10 ²⁸ 55	6°29	14°31	26°19	10°49	14°6	26°15	14°43	18°51	19°48	19°6	18°9	5°18	T 19
W 20	10 1 38	1°48'12	24°40	5°29	15°27	27°4	10°42	14°12	26°19	14°41	18°52	19°47	19°3	18°16	5°19	W 20
T 21	10 5 35	2°48'42	7 ¹¹ 59	4°26	16°23	27°50	10°35	14°18	26°22	14°40	18°53	19°D46	19°0	18°23	5°19	T 21
F 22	10 9 31	3°49'10	20°56	3°20	17°20	28°35	10°28	14°24	26°26	14°38	18°54	19°R47	18°56	18°30	5°20	F 22
S 23	10 13 28	4°49'36	3 ²⁸ 35	2°13	18°17	29°20	10°21	14°31	26°29	14°36	18°55	19°46	18°53	18°36	5°21	S 23
S 24	10 17 25	5°50'00	15°59	1°7	19°15	0 ¹¹ 6	10°15	14°37	26°33	14°35	18°56	19°43	18°50	18°43	5°22	S 24
M 25	10 21 21	6°50'22	28°12	0°3	20°13	0°51	10°8	14°44	26°36	14°33	18°58	19°38	18°47	18°50	5°23	M 25
T 26	10 25 18	7°50'43	10 ²⁸ 18	29 ²² 4	21°11	1°37	10°2	14°50	26°40	14°32	18°59	19°29	18°44	18°57	5°24	T 26
W 27	10 29 14	8°51'01	22°18	28°9	22°10	2°22	9°56	14°57	26°43	14°30	19°0	19°18	18°41	19°3	5°25	W 27
T 28	10 33 11	9 ¹¹ 51'18	4 ¹¹ 14	27 ²² 20	23 ³⁸ 10	3 ²² 8	9 ⁰ 50	15 ¹² 4	26 ²² 46	14 ²⁸ 29	19 ¹⁷ 1	19 ²⁷ 4	18 ²⁷ 37	19 ¹¹ 10	5 ¹¹ 26	T 28

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	17s 2	4n12	4s57	12s15	0s39	18s14	5n12	23s28	0s40	17n40	0n50	2n44	2s21	13s46	0s42	16n20	0n 5	8s27	17s 0	23s 9	23s 3	0n44	16n48	4s27			
S 2	16 44	0s27	5 5	11 34	0 27	18 17	5 8	23 25	0 41	17 43	0 50	2 46	2 21	13 45	0 42	16 21	0 5	8 26	16 59	23 8	23 3	0 41	16 48	4 26			
S 3	16 27	5 4	5 1	10 53	0 15	18 21	5 5	23 21	0 41	17 45	0 50	2 48	2 21	13 44	0 42	16 21	0 5	8 26	16 59	23 8	23 3	0 39	16 48	4 26			
M 4	16 9	9 29	4 43	10 13	0 2	18 24	5 1	23 16	0 42	17 47	0 51	2 50	2 21	13 43	0 42	16 22	0 5	8 25	16 59	23 7	23 3	0 36	16 49	4 26			
T 5	15 51	13 36	4 14	9 33	0n13	18 27	4 57	23 12	0 42	17 50	0 51	2 53	2 20	13 41	0 42	16 22	0 5	8 25	16 58	23 7	23 2	0 33	16 49	4 26			
W 6	15 32	17 12	3 32	8 55	0 27	18 30	4 53	23 7	0 43	17 52	0 51	2 55	2 20	13 40	0 42	16 23	0 5	8 24	16 58	23 7	23 2	0 31	16 49	4 26			
T 7	15 14	20 8	2 40	8 19	0 43	18 33	4 49	23 2	0 44	17 54	0 51	2 57	2 20	13 39	0 42	16 23	0 5	8 23	16 58	23 7	23 2	0 28	16 49	4 25			
F 8	14 55	22 10	1 39	7 46	0 58	18 36	4 44	22 57	0 44	17 57	0 51	2 59	2 20	13 38	0 42	16 24	0 5	8 23	16 57	23 7	23 2	0 25	16 49	4 25			
S 9	14 35	23 6	0 31	7 15	1 15	18 38	4 40	22 51	0 45	17 59	0 51	3 2	2 20	13 37	0 42	16 24	0 5	8 22	16 57	23 7	23 1	0 23	16 49	4 25			
S 10	14 16	22 45	0n40	6 47	1 31	18 41	4 35	22 45	0 46	18 1	0 51	3 4	2 19	13 36	0 42	16 25	0 5	8 22	16 57	23 7	23 1	0 20	16 50	4 25			
M 11	13 56	21 0	1 52	6 23	1 48	18 43	4 31	22 40	0 46	18 3	0 51	3 6	2 19	13 34	0 42	16 25	0 5	8 21	16 56	23 7	23 1	0 18	16 50	4 25			
T 12	13 36	17 53	2 59	6 2	2 4	18 45	4 26	22 33	0 47	18 6	0 51	3 9	2 19	13 33	0 42	16 26	0 5	8 20	16 56	23 6	23 1	0 15	16 50	4 24			
W 13	13 16	13 32	3 56	5 47	2 20	18 46	4 21	22 27	0 48	18 8	0 51	3 11	2 19	13 32	0 42	16 26	0 5	8 20	16 56	23 6	23 0	0 12	16 50	4 24			
T 14	12 56	8 17	4 37	5 35	2 35	18 48	4 16	22 20	0 48	18 10	0 51	3 14	2 19	13 31	0 42	16 27	0 5	8 19	16 55	23 5	23 0	0 10	16 50	4 24			
F 15	12 35	2 29	4 59	5 29	2 50	18 49	4 11	22 13	0 49	18 12	0 51	3 16	2 19	13 30	0 42	16 27	0 5	8 19	16 55	23 4	23 0	0 7	16 51	4 24			
S 16	12 15	3n27	5 0	5 27	3 3	18 49	4 6	22 6	0 49	18 14	0 52	3 19	2 18	13 29	0 42	16 28	0 5	8 18	16 55	23 4	23 0	0 4	16 51	4 23			
S 17	11 54	9 5	4 40	5 30	3 14	18 50	4 1	21 59	0 50	18 16	0 52	3 21	2 18	13 27	0 42	16 28	0 5	8 17	16 55	23 3	22 59	0 2	16 51	4 23			
M 18	11 33	14 4	4 3	5 38	3 24	18 50	3 55	21 51	0 51	18 18	0 52	3 24	2 18	13 26	0 42	16 29	0 5	8 17	16 54	23 2	22 59	0s1	16 52	4 23			
T 19	11 11	18 7	3 11	5 50	3 32	18 49	3 50	21 43	0 51	18 20	0 52	3 26	2 18	13 25	0 42	16 29	0 5	8 16	16 54	23 2	22 59	0 3	16 52	4 23			
W 20	10 50	21 1	2 9	6 6	3 38	18 49	3 45	21 35	0 52	18 22	0 52	3 29	2 18	13 24	0 42	16 30	0 5	8 16	16 54	23 2	22 59	0 6	16 52	4 23			
T 21	10 28	22 39	1 2	6 26	3 42	18 47	3 40	21 27	0 53	18 24	0 52	3 31	2 18	13 23	0 42	16 30	0 5	8 15	16 54	23 2	22 58	0 9	16 52	4 22			
F 22	10 6	23 1	0s6	6 49	3 43	18 46	3 34	21 18	0 53	18 26	0 52	3 34	2 18	13 21	0 42	16 31	0 5	8 14	16 53	23 2	22 58	0 11	16 53	4 22			
S 23	9 44	22 10	1 12	7 13	3 42	18 44	3 29	21 9	0 54	18 28	0 52	3 36	2 17	13 20	0 42	16 31	0 5	8 14	16 53	23 2	22 58	0 14	16 53	4 22			
S 24	9 22	20 15	2 14	7 39	3 39	18 42	3 23	21 0	0 54	18 30	0 52	3 39	2 17	13 19	0 42	16 32	0 5	8 13	16 53	23 2	22 58	0 17	16 54	4 22			
M 25	9 0	17 26	3 8	8 6	3 34	18 39	3 18	20 51	0 55	18 32	0 52	3 42	2 17	13 18	0 42	16 32	0 5	8 12	16 53	23 1	22 57	0 19	16 54	4 21			
T 26	8 37	13 54	3 53	8 34	3 27	18 36	3 12	20 42	0 56	18 33	0 52	3 44	2 17	13 17	0 42	16 33	0 5	8 12	16 52	23 1	22 57	0 22	16 54	4 21			
W 27	8 15	9 51	4 27	9 1	3 18	18 32	3 7	20 32	0 56	18 35	0 52	3 47	2 17	13 16	0 42	16 33	0 5	8 11	16 52	23 0	22 57	0 24	16 55	4 21			
T 28	7s52	5n27	4s50	9s27	3n 8	18s28	3n 1	20s22	0s57	18n37	0n52	3n50	2s17	13s15	0s42	16n33	0n 5	8s11	16s52	22s59	22s56	0s27	16n55	4s21			

Julian Day Number = 2482987.5, Delta T = 87.13 sec

ASTRODIENST EPHEMERIS for the year 2086

geocentric

MARCH 2086

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 37 7	10♌51'33	16♍8	26°R37	24♌10	3♌53	9°R44	15♌10	26♌50	14°R27	19♌2	18°R50	18♌34	19♍17	5♍27	F 1
S 2	10 41 4	11°51'47	28° 1	26♌1	25°10	4°39	9♌38	15°17	26°53	14♌26	19° 3	18♌35	18°31	19°23	5°29	S 2
S 3	10 45 0	12°51'58	9♌53	25°32	26°11	5°24	9°32	15°24	26°57	14°24	19° 4	18°22	18°28	19°30	5°30	S 3
M 4	10 48 57	13°52'08	21°48	25°10	27°12	6°10	9°27	15°30	27° 0	14°23	19° 6	18°10	18°25	19°37	5°31	M 4
T 5	10 52 53	14°52'17	3♍47	24°56	28°13	6°56	9°21	15°37	27° 3	14°22	19° 7	18° 2	18°21	19°44	5°33	T 5
W 6	10 56 50	15°52'23	15°53	24°48	29°15	7°41	9°16	15°44	27° 7	14°20	19° 8	17°57	18°18	19°50	5°34	W 6
T 7	11 0 47	16°52'29	28°11	24°D46	0♌17	8°27	9°11	15°51	27°10	14°19	19° 9	17°54	18°15	19°57	5°36	T 7
F 8	11 4 43	17°52'32	10♌44	24°51	1°19	9°13	9° 6	15°58	27°13	14°17	19°10	17°53	18°12	20° 4	5°38	F 8
S 9	11 8 40	18°52'35	23°37	25° 2	2°22	9°58	9° 1	16° 5	27°17	14°16	19°12	17°53	18° 9	20°10	5°39	S 9
S 10	11 12 36	19°52'35	6♌55	25°19	3°24	10°44	8°57	16°12	27°20	14°15	19°13	17°53	18° 6	20°17	5°41	S 10
M 11	11 16 33	20°52'34	20°40	25°41	4°28	11°30	8°52	16°19	27°23	14°13	19°14	17°50	18° 2	20°24	5°43	M 11
T 12	11 20 29	21°52'31	4♌55	26° 8	5°31	12°16	8°48	16°26	27°26	14°12	19°16	17°46	17°59	20°31	5°45	T 12
W 13	11 24 26	22°52'27	19°38	26°40	6°35	13° 2	8°44	16°34	27°30	14°11	19°17	17°38	17°56	20°37	5°47	W 13
T 14	11 28 22	23°52'21	4♌43	27°16	7°39	13°47	8°40	16°41	27°33	14°10	19°18	17°28	17°53	20°44	5°49	T 14
F 15	11 32 19	24°52'13	20° 2	27°56	8°43	14°33	8°36	16°48	27°36	14° 9	19°19	17°17	17°50	20°51	5°51	F 15
S 16	11 36 16	25°52'03	5♌23	28°40	9°48	15°19	8°33	16°55	27°39	14° 7	19°21	17° 6	17°47	20°58	5°54	S 16
S 17	11 40 12	26°51'51	20°34	29°28	10°52	16° 5	8°30	17° 2	27°42	14° 6	19°22	16°56	17°43	21° 4	5°56	S 17
M 18	11 44 9	27°51'37	5♌25	0♌19	11°57	16°51	8°26	17°10	27°45	14° 5	19°23	16°48	17°40	21°11	5°58	M 18
T 19	11 48 5	28°51'20	19°50	1°13	13° 2	17°37	8°23	17°17	27°48	14° 4	19°25	16°43	17°37	21°18	6° 1	T 19
W 20	11 52 2	29°51'02	3♍46	2°10	14° 8	18°23	8°21	17°24	27°52	14° 3	19°26	16°41	17°34	21°24	6° 3	W 20
T 21	11 55 58	0♌50'41	17°13	3°10	15°13	19° 9	8°18	17°32	27°55	14° 2	19°27	16°D40	17°31	21°31	6° 6	T 21
F 22	11 59 55	1°50'18	0♌13	4°13	16°19	19°55	8°16	17°39	27°58	14° 1	19°29	16°R41	17°27	21°38	6° 8	F 22
S 23	12 3 51	2°49'53	12°52	5°18	17°25	20°41	8°13	17°47	28° 1	14° 0	19°30	16°40	17°24	21°45	6°11	S 23
S 24	12 7 48	3°49'26	25°13	6°25	18°31	21°27	8°11	17°54	28° 4	13°59	19°32	16°38	17°21	21°51	6°13	S 24
M 25	12 11 45	4°48'56	7♌21	7°34	19°37	22°13	8°10	18° 1	28° 7	13°58	19°33	16°34	17°18	21°58	6°16	M 25
T 26	12 15 41	5°48'24	19°21	8°46	20°44	22°59	8° 8	18° 9	28°10	13°57	19°34	16°27	17°15	22° 5	6°19	T 26
W 27	12 19 38	6°47'49	1♍15	10° 0	21°50	23°45	8° 6	18°16	28°12	13°56	19°36	16°17	17°12	22°11	6°22	W 27
T 28	12 23 34	7°47'12	13° 8	11°16	22°57	24°31	8° 5	18°24	28°15	13°55	19°37	16° 5	17° 8	22°18	6°25	T 28
F 29	12 27 31	8°46'34	25° 0	12°33	24° 4	25°17	8° 4	18°31	28°18	13°54	19°39	15°52	17° 5	22°25	6°28	F 29
S 30	12 31 27	9°45'53	6♌53	13°53	25°11	26° 3	8° 3	18°39	28°21	13°54	19°40	15°40	17° 2	22°32	6°31	S 30
S 31	12 35 24	10♌45'10	18♌50	15♌14	26♌18	26♌49	8♌ 3	18♌46	28♌24	13♌53	19♌41	15♌28	16♌59	22♍38	6♍34	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	7s29	0n52	4s59	9s52	2n57	18s23	2n55	20s12	0s58	18n38	0n52	3n52	2s17	13s13	0s42	16n34	0n 5	8s10	16s52	22s57	22s56	0s30	16n56	4s21	17n12
S 2	7 7	3s44	4 55	10 16	2 44	18 18	2 50	20 2	0 58	18 40	0 52	3 55	2 16	13 12	0 42	16 34	0 5	8 9	16 51	22 56	22 56	0 32	16 56	4 20	17n12
S 3	6 44	8 11	4 39	10 37	2 31	18 13	2 44	19 52	0 59	18 42	0 52	3 58	2 16	13 11	0 42	16 35	0 5	8 9	16 51	22 55	22 56	0 35	16 56	4 20	17n12
M 4	6 21	12 21	4 10	10 57	2 18	18 7	2 39	19 41	0 59	18 43	0 52	4 0	2 16	13 10	0 42	16 35	0 5	8 8	16 51	22 54	22 55	0 37	16 57	4 20	17n12
T 5	5 57	16 4	3 30	11 15	2 4	18 1	2 33	19 30	1 0	18 44	0 52	4 3	2 16	13 9	0 42	16 36	0 5	8 7	16 51	22 53	22 55	0 40	16 57	4 20	17n12
W 6	5 34	19 9	2 40	11 31	1 50	17 54	2 27	19 19	1 1	18 46	0 52	4 6	2 16	13 8	0 42	16 36	0 5	8 7	16 51	22 53	22 55	0 43	16 58	4 20	17n12
T 7	5 11	21 24	1 42	11 45	1 36	17 46	2 22	19 8	1 1	18 47	0 52	4 9	2 16	13 7	0 42	16 36	0 5	8 6	16 50	22 53	22 55	0 45	16 58	4 19	17n12
F 8	4 47	22 40	0 38	11 56	1 22	17 39	2 16	18 56	1 2	18 48	0 52	4 11	2 16	13 5	0 42	16 37	0 5	8 6	16 50	22 53	22 54	0 48	16 59	4 19	17n12
S 9	4 24	22 46	0n30	12 5	1 9	17 30	2 11	18 44	1 2	18 50	0 52	4 14	2 16	13 4	0 42	16 37	0 5	8 5	16 50	22 53	22 54	0 50	16 59	4 19	17n12
S 10	4 0	21 36	1 39	12 13	0 55	17 21	2 5	18 32	1 3	18 51	0 52	4 17	2 16	13 3	0 42	16 38	0 5	8 4	16 50	22 53	22 54	0 53	17 0	4 19	17n12
M11	3 37	19 8	2 44	12 18	0 42	17 12	1 59	18 20	1 3	18 52	0 52	4 20	2 16	13 2	0 42	16 38	0 5	8 4	16 50	22 52	22 53	0 56	17 0	4 19	17n12
T 12	3 13	15 27	3 41	12 21	0 29	17 2	1 54	18 8	1 4	18 53	0 52	4 23	2 15	13 1	0 42	16 38	0 5	8 3	16 49	22 52	22 53	0 58	17 1	4 18	17n12
W13	2 50	10 43	4 26	12 22	0 16	16 52	1 48	17 56	1 5	18 54	0 52	4 25	2 15	13 0	0 42	16 39	0 5	8 2	16 49	22 51	22 53	1 1	17 1	4 18	17n12
T 14	2 26	5 14	4 53	12 21	0 4	16 41	1 43	17 43	1 5	18 55	0 52	4 28	2 15	12 59	0 42	16 39	0 5	8 2	16 49	22 50	22 53	1 3	17 2	4 18	17n12
F 15	2 2	0n39	5 0	12 18	0s 8	16 30	1 37	17 30	1 6	18 56	0 52	4 31	2 15	12 58	0 42	16 39	0 5	8 1	16 49	22 49	22 52	1 6	17 3	4 18	17n12
S 16	1 39	6 30	4 45	12 14	0 19	16 19	1 32	17 17	1 6	18 57	0 52	4 34	2 15	12 57	0 42	16 40	0 5	8 1	16 49	22 48	22 52	1 9	17 3	4 18	17n12
S 17	1 15	11 54	4 11	12 7	0 30	16 6	1 27	17 4	1 7	18 58	0 52	4 37	2 15	12 56	0 42	16 40	0 5	8 0	16 49	22 47	22 52	1 11	17 4	4 17	17n12
M18	0 51	16 27	3 20	11 59	0 40	15 54	1 21	16 51	1 7	18 59	0 52	4 39	2 15	12 55	0 42	16 40	0 5	7 59	16 49	22 46	22 51	1 14	17 4	4 17	17n12
T 19	0 27	19 53	2 17	11 49	0 50	15 41	1 16	16 37	1 8	18 59	0 52	4 42	2 15	12 53	0 42	16 41	0 5	7 59	16 48	22 46	22 51	1 16	17 5	4 17	17n12
W20	0 4	22 0	1 8	11 37	1 0	15 27	1 11	16 24	1 8	19 0	0 52	4 45	2 15	12 52	0 42	16 41	0 5	7 58	16 48	22 46	22 51	1 19	17 5	4 17	17n12
T 21	0n20	22 46	0s 3	11 24	1 9	15 13	1 6	16 10	1 9	19 1	0 52	4 48	2 15	12 51	0 42	16 41	0 5	7 58	16 48	22 46	22 50	1 21	17 6	4 17	17n12
F 22	0 44	22 14	1 11	11 9	1 17	14 59	1 0	15 56	1 9	19 1	0 52	4 51	2 15	12 50	0 42	16 42	0 5	7 57	16 48	22 46	22 50	1 24	17 7	4 16	17n12
S 23	1 8	20 35	2 14	10 53	1 25	14 44	0 55	15 42	1 10	19 2	0 52	4 54	2 15	12 49	0 42	16 42	0 5	7 56	16 48	22 46	22 50	1 27	17 7	4 16	17n12
S 24	1 31	17 59	3 9	10 35	1 33	14 29	0 50	15 28	1 11	19 2	0 52	4 57	2 15	12 48	0 42	16 42	0 5	7 56	16 48	22 45	22 50	1 29	17 8	4 16	17n12
M25	1 55	14 38	3 55	10 16	1 40	14 13	0 45	15 13	1 11	19 3	0 52	4 59	2 15	12 47	0 42	16 43	0 5	7 55	16 48	22 45	22 49	1 32	17 8	4 16	17n12
T 26	2 18	10 45	4 29	9 55	1 46	13 57	0 40	14 59	1 12	19 3	0 51	5 2	2 15	12 46	0 42	16 43	0 5	7 55	16 48	22 44	22 49	1 34	17 9	4 16	17n12
W27	2 42	6 29	4 51	9 33	1 53	13 40	0 35	14 44	1 12	19 4	0 51	5 5	2 15	12 45	0 43	16 43	0 5	7 54	16 48	22 43	22 49	1 37	17 10	4 16	17n12
T 28	3 5	1 59	5 1	9 10	1 58	13 23	0 30	14 29	1 13	19 4	0 51	5 8	2 14	12 44	0 43	16 43	0 5	7 53	16 47	22 42	22 48	1 39	17 10	4 15	17n12
F 29	3 29	2s34	4 58	8 45	2 3	13 6	0 26	14 14	1 13	19 4	0 51	5 11	2 14	12 43	0 43	16 44	0 5	7 53	16 47	22 41	22 48	1 42	17 11	4 15	17n12
S 30	3 52	7 2	4 41	8 19	2 8	12 48	0 21	13 59	1 14	19 4	0 51	5 14	2 14	12 42	0 43	16 44	0 5	7 52	16 47	22 39	22 48	1 45	17 12	4 15	17n12
S 31	4n15	11s16	4s13	7s51	2s12	12s29	0n16	13s44	1s14	19n 4	0n51	5n17	2s14	12s42	0s43	16n44	0n 5	7s52	16s47	22s38	22s47	1s47	17n12	4s15	17n12

ASTRODIENST EPHEMERIS for the year 2086
geocentric

APRIL 2086

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 39 20	11°44'25	0°11'51	16°37'37	27°27'25	27°27'35	8°R 2	18°V54	28°27'27	13°R52	19°V43	15°R18	16°27'56	22°11'45	6°II37	M 1
T 2	12 43 17	12°43'38	12°58	18° 1	28°33	28°21	8°L 2	19° 1	28°29	13°L51	19°44	15°27'11	16°52	22°52	6°40	T 2
W 3	12 47 14	13°42'49	25°12	19°28	29°40	29° 7	8°D 2	19° 9	28°32	13°51	19°46	15° 6	16°49	22°59	6°43	W 3
T 4	12 51 10	14°41'59	7°27'37	20°55	0°K48	29°53	8° 2	19°17	28°35	13°50	19°47	15° 4	16°46	23° 5	6°46	T 4
F 5	12 55 7	15°41'07	20°15	22°25	1°56	0°K39	8° 2	19°24	28°37	13°49	19°48	15°D 4	16°43	23°12	6°50	F 5
S 6	12 59 3	16°40'13	3°31'10	23°56	3° 4	1°25	8° 2	19°32	28°40	13°49	19°50	15° 5	16°40	23°19	6°53	S 6
S 7	13 3 0	17°39'17	16°25	25°28	4°12	2°12	8° 3	19°39	28°42	13°48	19°51	15°R 5	16°37	23°25	6°57	S 7
M 8	13 6 56	18°38'19	0°22'3	27° 2	5°21	2°58	8° 4	19°47	28°45	13°48	19°53	15° 5	16°33	23°32	7° 0	M 8
T 9	13 10 53	19°37'20	14° 6	28°38	6°29	3°44	8° 5	19°54	28°47	13°47	19°54	15° 2	16°30	23°39	7° 3	T 9
W10	13 14 49	20°36'19	28°34	0°V15	7°37	4°30	8° 6	20° 2	28°50	13°47	19°56	14°58	16°27	23°46	7° 7	W10
T 11	13 18 46	21°35'16	13°K23	1°54	8°46	5°16	8° 7	20°10	28°52	13°46	19°57	14°51	16°24	23°52	7°11	T 11
F 12	13 22 42	22°34'11	28°26	3°34	9°55	6° 2	8° 9	20°17	28°55	13°46	19°58	14°43	16°21	23°59	7°14	F 12
S 13	13 26 39	23°33'05	13°V36	5°16	11° 3	6°48	8°11	20°25	28°57	13°45	20° 0	14°35	16°18	24° 6	7°18	S 13
S 14	13 30 36	24°31'56	28°41	6°59	12°12	7°34	8°13	20°32	28°59	13°45	20° 1	14°28	16°14	24°12	7°22	S 14
M15	13 34 32	25°30'46	13°B32	8°44	13°21	8°21	8°15	20°40	29° 2	13°45	20° 3	14°23	16°11	24°19	7°25	M15
T 16	13 38 29	26°29'33	28° 1	10°30	14°30	9° 7	8°17	20°47	29° 4	13°45	20° 4	14°20	16° 8	24°26	7°29	T 16
W17	13 42 25	27°28'19	12°II 3	12°18	15°39	9°53	8°19	20°55	29° 6	13°44	20° 6	14°D18	16° 5	24°33	7°33	W17
T 18	13 46 22	28°27'02	25°38	14° 8	16°49	10°39	8°22	21° 3	29° 8	13°44	20° 7	14°19	16° 2	24°39	7°37	T 18
F 19	13 50 18	29°25'43	8°B45	15°59	17°58	11°25	8°25	21°10	29°10	13°44	20° 8	14°20	15°58	24°46	7°41	F 19
S 20	13 54 15	0°B24'22	21°29	17°51	19° 7	12°11	8°28	21°18	29°12	13°44	20°10	14°21	15°55	24°53	7°45	S 20
S 21	13 58 11	1°22'58	3°L53	19°45	20°17	12°57	8°31	21°25	29°15	13°44	20°11	14°R22	15°52	25° 0	7°49	S 21
M22	14 2 8	2°21'33	16° 3	21°41	21°26	13°43	8°35	21°33	29°17	13°44	20°13	14°20	15°49	25° 6	7°53	M22
T 23	14 6 5	3°20'05	28° 2	23°39	22°36	14°29	8°38	21°40	29°18	13°44	20°14	14°18	15°46	25°13	7°57	T 23
W24	14 10 1	4°18'35	9°11'56	25°37	23°46	15°15	8°42	21°48	29°20	13°D44	20°15	14°13	15°43	25°20	8° 1	W24
T 25	14 13 58	5°17'03	21°47	27°38	24°55	16° 1	8°46	21°55	29°22	13°44	20°17	14° 7	15°39	25°26	8° 5	T 25
F 26	14 17 54	6°15'29	3°L40	29°40	26° 5	16°47	8°50	22° 3	29°24	13°44	20°18	14° 0	15°36	25°33	8° 9	F 26
S 27	14 21 51	7°13'52	15°37	1°B43	27°15	17°33	8°54	22°10	29°26	13°44	20°20	13°53	15°33	25°40	8°13	S 27
S 28	14 25 47	8°12'14	27°39	3°48	28°25	18°19	8°58	22°17	29°28	13°44	20°21	13°47	15°30	25°47	8°17	S 28
M29	14 29 44	9°10'34	9°11'50	5°53	29°35	19° 5	9° 3	22°25	29°29	13°44	20°22	13°42	15°27	25°53	8°22	M29
T 30	14 33 40	10°B 8'53	22°11'9	8°B 0	0°V45	19°K51	9°L 7	22°V32	29°22'31	13°L44	20°V24	13°27'38	15°27'23	26°11'0	8°II26	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	4n38	15s 5	3s33	7s22	2s16	12s11	0n12	13s28	1s15	19n 4	0n51	5n20	2s14	12s41	0s43	16n44	0n 5	7s51	16s47	22s37	22s47	1s50	17n13	4s15			
T 2	5 2	18 18	2 42	6 52	2 19	11 52	0 7	13 13	1 15	19 4	0 51	5 22	2 14	12 40	0 43	16 45	0 5	7 51	16 47	22 36	22 47	1 52	17 14	4 15			
W 3	5 25	20 44	1 44	6 21	2 22	11 32	0 3	12 57	1 15	19 4	0 51	5 25	2 14	12 39	0 43	16 45	0 5	7 50	16 47	22 36	22 47	1 55	17 14	4 14			
T 4	5 47	22 13	0 40	5 49	2 24	11 13	0s 2	12 41	1 16	19 4	0 51	5 28	2 14	12 38	0 43	16 45	0 5	7 49	16 47	22 36	22 46	1 57	17 15	4 14			
F 5	6 10	22 37	0n28	5 15	2 26	10 53	0 6	12 26	1 16	19 4	0 51	5 31	2 14	12 37	0 43	16 45	0 5	7 49	16 47	22 36	22 46	2 0	17 16	4 14			
S 6	6 33	21 48	1 35	4 40	2 28	10 32	0 10	12 10	1 17	19 4	0 51	5 34	2 14	12 36	0 43	16 45	0 5	7 48	16 47	22 36	22 46	2 2	17 16	4 14			
S 7	6 56	19 47	2 40	4 4	2 28	10 11	0 15	11 53	1 17	19 4	0 51	5 37	2 14	12 35	0 43	16 45	0 5	7 48	16 47	22 36	22 45	2 5	17 17	4 14			
M 8	7 18	16 36	3 37	3 27	2 29	9 50	0 19	11 37	1 18	19 4	0 51	5 40	2 14	12 34	0 43	16 46	0 5	7 47	16 47	22 36	22 45	2 8	17 18	4 14			
T 9	7 40	12 24	4 23	2 49	2 29	9 29	0 23	11 21	1 18	19 3	0 51	5 42	2 14	12 34	0 43	16 46	0 5	7 47	16 47	22 35	22 45	2 10	17 18	4 14			
W10	8 3	7 22	4 54	2 10	2 28	9 7	0 27	11 5	1 19	19 3	0 51	5 45	2 14	12 33	0 43	16 46	0 5	7 46	16 47	22 35	22 44	2 13	17 19	4 14			
T 11	8 25	1 49	5 6	1 29	2 27	8 45	0 31	10 48	1 19	19 2	0 51	5 48	2 14	12 32	0 43	16 46	0 5	7 46	16 47	22 34	22 44	2 15	17 20	4 13			
F 12	8 47	3n56	4 57	0 48	2 25	8 23	0 34	10 31	1 19	19 2	0 51	5 51	2 14	12 31	0 43	16 46	0 5	7 45	16 47	22 33	22 44	2 18	17 21	4 13			
S 13	9 8	9 29	4 28	0 6	2 23	8 0	0 38	10 15	1 20	19 2	0 50	5 54	2 14	12 30	0 43	16 46	0 5	7 45	16 47	22 32	22 43	2 20	17 21	4 13			
S 14	9 30	14 26	3 40	0n37	2 20	7 37	0 42	9 58	1 20	19 1	0 50	5 57	2 14	12 30	0 43	16 46	0 5	7 44	16 47	22 31	22 43	2 23	17 22	4 13			
M15	9 52	18 24	2 38	1 21	2 17	7 14	0 45	9 41	1 21	19 0	0 50	5 59	2 14	12 29	0 43	16 47	0 5	7 44	16 47	22 31	22 43	2 25	17 23	4 13			
T 16	10 13	21 7	1 27	2 7	2 13	6 51	0 49	9 24	1 21	19 0	0 50	6 2	2 14	12 28	0 43	16 47	0 5	7 43	16 47	22 30	22 42	2 28	17 23	4 13			
W17	10 34	22 26	0 12	2 52	2 9	6 27	0 52	9 7	1 21	18 59	0 50	6 5	2 14	12 27	0 43	16 47	0 5	7 43	16 47	22 30	22 42	2 30	17 24	4 13			
T 18	10 55	22 21	1s 1	3 39	2 5	6 3	0 55	8 50	1 22	18 58	0 50	6 8	2 14	12 27	0 43	16 47	0 5	7 42	16 47	22 30	22 42	2 33	17 25	4 13			
F 19	11 16	21 0	2 8	4 27	1 59	5 39	0 59	8 33	1 22	18 57	0 50	6 11	2 14	12 26	0 43	16 47	0 5	7 42	16 47	22 31	22 41	2 36	17 26	4 13			
S 20	11 37	18 38	3 7	5 15	1 54	5 15	1 2	8 15	1 22	18 57	0 50	6 13	2 14	12 25	0 43	16 47	0 5	7 41	16 47	22 31	22 41	2 38	17 26	4 12			
S 21	11 57	15 27	3 56	6 4	1 48	4 50	1 5	7 58	1 23	18 56	0 50	6 16	2 14	12 24	0 43	16 47	0 5	7 41	16 47	22 31	22 41	2 41	17 27	4 12			
M22	12 17	11 40	4 33	6 53	1 41	4 26	1 8	7 41	1 23	18 55	0 50	6 19	2 15	12 24	0 43	16 47	0 5	7 40	16 47	22 31	22 40	2 43	17 28	4 12			
T 23	12 37	7 30	4 57	7 43	1 34	4 1	1 10	7 23	1 23	18 54	0 50	6 22	2 15	12 23	0 43	16 47	0 5	7 40	16 47	22 30	22 40	2 46	17 28	4 12			
W24	12 57	3 4	5 9	8 34	1 26	3 36	1 13	7 6	1 24	18 53	0 50	6 24	2 15	12 22	0 43	16 47	0 5	7 40	16 48	22 30	22 40	2 48	17 29	4 12			
T 25	13 17	1s27	5 7	9 25	1 18	3 11	1 16	6 48	1 24	18 52	0 50	6 27	2 15	12 22	0 43	16 47	0 5	7 39	16 48	22 29	22 39	2 51	17 30	4 12			
F 26	13 36	5 55	4 52	10 16	1 10	2 45	1 18	6 31	1 24	18 50	0 50	6 30	2 15	12 21	0 43	16 47	0 5	7 39	16 48	22 28	22 39	2 53	17 31	4 12			
S 27	13 55	10 12	4 24	11 7	1 1	2 20	1 21	6 13	1 25	18 49	0 50	6 32	2 15	12 21	0 43	16 47	0 5	7 38	16 48	22 27	22 39	2 56	17 31	4 12			
S 28	14 14	14 7	3 44	11 58	0 51	1 54	1 23	5 55	1 25	18 48	0 50	6 35	2 15	12 20	0 43	16 47	0 5	7 38	16 48	22 27	22 38	2 58	17 32	4 12			
M29	14 33	17 30	2 54	12 49	0 42	1 29	1 26	5 38	1 25	18 47	0 49	6 38	2 15	12 19	0 44	16 47	0 5	7 38	16 48	22 26	22 38	3 1	17 33	4 12			
T 30	14n51	20s 8	1s54	13n40	0s32	1s 3	1s28	5s20	1s26	18n46	0n49	6n41	2s15	12s19	0s44	16n47	0n 5	7s37	16s48	22s26	22s38	3s 3	17n33	4s12			

ASTRODIENST EPHEMERIS for the year 2086
geocentric

MAY 2086

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 37 37	11♌ 7°09	4♊38	10♌ 8	1♏55	20♏37	9♏12	22♏39	29♏33	13♏44	20♏25	13°R36	15♏20	26♏7	8♏30	W 1
T 2	14 41 34	12° 5'24	17°18	12°17	3° 5	21°23	9°17	22°47	29°34	13°45	20°26	13°D36	15°17	26°13	8°35	T 2
F 3	14 45 30	13° 3'38	0♌11	14°26	4°16	22° 9	9°23	22°54	29°36	13°45	20°28	13♏37	15°14	26°20	8°39	F 3
S 4	14 49 27	14° 1'50	13°18	16°36	5°26	22°55	9°28	23° 1	29°37	13°45	20°29	13°38	15°11	26°27	8°43	S 4
S 5	14 53 23	15° 0'00	26°41	18°46	6°36	23°41	9°33	23° 9	29°39	13°46	20°30	13°40	15° 8	26°34	8°48	S 5
M 6	14 57 20	15°58'09	10♏21	20°55	7°47	24°27	9°39	23°16	29°40	13°46	20°32	13°R41	15° 4	26°40	8°52	M 6
T 7	15 1 16	16°56'16	24°18	23° 4	8°57	25°12	9°45	23°23	29°41	13°46	20°33	13°41	15° 1	26°47	8°57	T 7
W 8	15 5 13	17°54'22	8♏33	25°13	10° 8	25°58	9°51	23°30	29°43	13°47	20°34	13°40	14°58	26°54	9° 1	W 8
T 9	15 9 9	18°52'27	23° 3	27°20	11°18	26°44	9°57	23°37	29°44	13°47	20°36	13°37	14°55	27° 1	9° 6	T 9
F 10	15 13 6	19°50'30	7♏44	29°26	12°29	27°30	10° 3	23°44	29°45	13°48	20°37	13°34	14°52	27° 7	9°10	F 10
S 11	15 17 3	20°48'32	22°29	1♏31	13°40	28°16	10° 9	23°51	29°46	13°48	20°38	13°31	14°49	27°14	9°15	S 11
S 12	15 20 59	21°46'33	7♏13	3°33	14°50	29° 1	10°16	23°58	29°47	13°49	20°39	13°28	14°45	27°21	9°19	S 12
M13	15 24 56	22°44'32	21°47	5°34	16° 1	29°47	10°23	24° 5	29°49	13°50	20°41	13°26	14°42	27°27	9°24	M13
T 14	15 28 52	23°42'30	6♏15	7°32	17°12	0♏33	10°29	24°12	29°50	13°50	20°42	13°25	14°39	27°34	9°28	T 14
W15	15 32 49	24°40'26	20° 2	9°27	18°23	1°18	10°36	24°19	29°51	13°51	20°43	13°D25	14°36	27°41	9°33	W15
T 16	15 36 45	25°38'20	3♏36	11°20	19°34	2° 4	10°43	24°26	29°51	13°52	20°44	13°26	14°33	27°48	9°37	T 16
F 17	15 40 42	26°36'13	16°46	13°10	20°44	2°50	10°51	24°33	29°52	13°52	20°46	13°27	14°29	27°54	9°42	F 17
S 18	15 44 38	27°34'04	29°34	14°57	21°55	3°35	10°58	24°40	29°53	13°53	20°47	13°29	14°26	28° 1	9°47	S 18
S 19	15 48 35	28°31'53	12♏ 3	16°41	23° 6	4°21	11° 5	24°47	29°54	13°54	20°48	13°30	14°23	28° 8	9°51	S 19
M20	15 52 32	29°29'41	24°15	18°22	24°17	5° 6	11°13	24°53	29°55	13°55	20°49	13°R30	14°20	28°14	9°56	M20
T 21	15 56 28	0♏27'27	6♏17	20° 0	25°29	5°51	11°21	25° 0	29°55	13°56	20°50	13°30	14°17	28°21	10° 1	T 21
W22	16 0 25	1°25'11	18°11	21°34	26°40	6°37	11°29	25° 7	29°56	13°57	20°51	13°30	14°14	28°28	10° 5	W22
T 23	16 4 21	2°22'54	0♏ 4	23° 6	27°51	7°22	11°36	25°13	29°57	13°57	20°52	13°29	14°10	28°35	10°10	T 23
F 24	16 8 18	3°20'35	11°58	24°33	29° 2	8° 8	11°45	25°20	29°57	13°58	20°54	13°27	14° 7	28°41	10°15	F 24
S 25	16 12 14	4°18'14	23°58	25°58	0♏13	8°53	11°53	25°26	29°58	13°59	20°55	13°26	14° 4	28°48	10°19	S 25
S 26	16 16 11	5°15'53	6♏ 7	27°19	1°24	9°38	12° 1	25°33	29°58	14° 0	20°56	13°25	14° 1	28°55	10°24	S 26
M27	16 20 7	6°13'30	18°27	28°36	2°36	10°23	12°10	25°39	29°58	14° 1	20°57	13°24	13°58	29° 1	10°29	M27
T 28	16 24 4	7°11'05	1♏ 0	29°50	3°47	11° 8	12°18	25°45	29°59	14° 3	20°58	13°23	13°55	29° 8	10°34	T 28
W29	16 28 1	8° 8'40	13°47	19° 0	4°58	11°54	12°27	25°52	29°59	14° 4	20°59	13°D23	13°51	29°15	10°38	W29
T 30	16 31 57	9° 6'13	26°49	2° 7	6°10	12°39	12°36	25°58	29°59	14° 5	21° 0	13°23	13°48	29°22	10°43	T 30
F 31	16 35 54	10♏ 3'45	10♏ 4	3♏10	7♏21	13♏24	12♏44	26♏ 4	29♏59	14♏ 6	21♏ 1	13♏24	13♏45	29♏28	10♏48	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n 9	21s51	0s49	14n30	0s22	0s37	1s30	5s 2	1s26	18n44	0n49	6n43	2s15	12s18	0s44	16n47
T 2	15 27	22 29	0n20	15 20	0 11	0 11	1 32	4 44	1 26	18 43	0 49	6 46	2 15	12 18	0 44	16 47
F 3	15 45	21 56	1 30	16 9	0 1	0n15	1 34	4 26	1 26	18 41	0 49	6 48	2 15	12 17	0 44	16 47
S 4	16 3	20 11	2 35	16 57	0n10	0 41	1 36	4 8	1 27	18 40	0 49	6 51	2 15	12 17	0 44	16 47
S 5	16 20	17 18	3 34	17 43	0 20	1 8	1 38	3 50	1 27	18 38	0 49	6 54	2 15	12 16	0 44	16 46
M 6	16 37	13 26	4 22	18 28	0 31	1 34	1 39	3 32	1 27	18 37	0 49	6 56	2 15	12 16	0 44	16 46
T 7	16 53	8 45	4 56	19 12	0 41	2 0	1 41	3 14	1 27	18 35	0 49	6 59	2 16	12 16	0 44	16 46
W 8	17 10	3 31	5 13	19 54	0 52	2 27	1 42	2 56	1 27	18 34	0 49	7 1	2 16	12 15	0 44	16 46
T 9	17 26	1n59	5 10	20 33	1 1	2 53	1 44	2 38	1 28	18 32	0 49	7 4	2 16	12 15	0 44	16 46
F 10	17 41	7 27	4 47	21 11	1 11	3 19	1 45	2 20	1 28	18 30	0 49	7 6	2 16	12 14	0 44	16 46
S 11	17 57	12 32	4 4	21 46	1 20	3 45	1 46	2 2	1 28	18 28	0 49	7 9	2 16	12 14	0 44	16 46
S 12	18 12	16 51	3 6	22 18	1 29	4 12	1 47	1 44	1 28	18 27	0 49	7 11	2 16	12 14	0 44	16 46
M13	18 27	20 5	1 56	22 49	1 37	4 38	1 48	1 26	1 28	18 25	0 49	7 14	2 16	12 13	0 44	16 45
T 14	18 41	21 58	0 40	23 16	1 44	5 4	1 49	1 8	1 29	18 23	0 49	7 16	2 16	12 13	0 44	16 45
W15	18 56	22 27	0s36	23 41	1 51	5 30	1 50	0 50	1 29	18 21	0 49	7 19	2 16	12 13	0 44	16 45
T 16	19 10	21 34	1 49	24 4	1 57	5 56	1 51	0 32	1 29	18 19	0 48	7 21	2 16	12 12	0 44	16 45
F 17	19 23	19 30	2 54	24 24	2 3	6 22	1 51	0 14	1 29	18 17	0 48	7 23	2 17	12 12	0 44	16 45
S 18	19 36	16 31	3 48	24 41	2 7	6 48	1 52	0n 4	1 29	18 15	0 48	7 26	2 17	12 12	0 44	16 44
S 19	19 49	12 51	4 30	24 56	2 11	7 14	1 52	0 22	1 29	18 13	0 48	7 28	2 17	12 12	0 44	16 44
M20	20 2	8 44	4 59	25 9	2 14	7 40	1 53	0 40	1 29	18 11	0 48	7 30	2 17	12 11	0 44	16 44
T 21	20 14	4 20	5 14	25 19	2 17	8 6	1 53	0 57	1 29	18 8	0 48	7 33	2 17	12 11	0 44	16 44
W22	20 26	0s10	5 15	25 27	2 18	8 31	1 53	1 15	1 29	18 6	0 48	7 35	2 17	12 11	0 44	16 43
T 23	20 38	4 40	5 3	25 33	2 18	8 56	1 53	1 33	1 30	18 4	0 48	7 37	2 17	12 11	0 44	16 43
F 24	20 49	9 0	4 38	25 37	2 18	9 21	1 53	1 51	1 30	18 2	0 48	7 40	2 17	12 11	0 44	16 43
S 25	21 0	13 1	4 1	25 39	2 17	9 46	1 53	2 9	1 30	17 59	0 48	7 42	2 18	12 10	0 45	16 43
S 26	21 10	16 34	3 12	25 39	2 15	10 11	1 53	2 26	1 30	17 57	0 48	7 44	2 18	12 10	0 45	16 42
M27	21 20	19 27	2 14	25 37	2 12	10 36	1 53	2 44	1 30	17 54	0 48	7 46	2 18	12 10	0 45	16 42
T 28	21 30	21 28	1 8	25 34	2 8	11 0	1 53	3 2	1 30	17 52	0 48	7 48	2 18	12 10	0 45	16 42
W29	21 39	22 24	0n 2	25 29	2 4	11 24	1 52	3 19	1 30	17 50	0 48	7 50	2 18	12 10	0 45	16 41
T 30	21 48	22 10	1 14	25 23	1 58	11 48	1 52	3 37	1 30	17 47	0 48	7 53	2 18	12 10	0 45	16 41
F 31	21n57	20s41	2n23	25n15	1n52	12n12	1s51	3n54	1s30	17n44	0n48	7n55	2s18	12s10	0s45	16n41

Julian Day Number = 2483076.5, Delta T = 87.23 sec
Ecliptic obliquity = 23°25'39", Nutation = 0°00'15", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°56'47", Lahiri = 25°03'48"

ASTRODIENST EPHEMERIS for the year 2086
geocentric

JUNE 2086

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 39 50	11 ^{II} 1'17	23 ^{III} 33	4 ^{IV} 9	8 ^V 33	14 ^{VI} 9	12 ^{VII} 53	26 ^{VIII} 10	29 ^{IX} 59	14 ^X 7	21 ^{XI} 2	13 ^{XII} 24	13 ^I 42	29 ^{II} 35	10 ^{III} 53	S 1
S 2	16 43 47	11°58'47	7 ^{III} 14	5° 4	9°44	14°54	13° 3	26°16	29°59	14° 8	21° 3	13°24	13°39	29°42	10°57	S 2
M 3	16 47 43	12°56'17	21° 7	5°56	10°56	15°39	13°12	26°22	29°59	14°10	21° 4	13°24	13°35	29°49	11° 2	M 3
T 4	16 51 40	13°53'46	5 ^{III} 10	6°43	12° 7	16°24	13°21	26°28	29°R59	14°11	21° 5	13°R24	13°32	29°55	11° 7	T 4
W 5	16 55 36	14°51'14	19°21	7°27	13°19	17° 8	13°30	26°34	29°59	14°12	21° 6	13°D24	13°29	0 ^{III} 2	11°11	W 5
T 6	16 59 33	15°48'41	3 ^{IV} 38	8° 6	14°30	17°53	13°40	26°40	29°59	14°13	21° 7	13°24	13°26	0° 9	11°16	T 6
F 7	17 3 30	16°46'08	17°58	8°41	15°42	18°38	13°50	26°46	29°59	14°15	21° 8	13°25	13°23	0°15	11°21	F 7
S 8	17 7 26	17°43'34	2 ^{IV} 17	9°11	16°54	19°23	13°59	26°52	29°59	14°16	21° 8	13°25	13°20	0°22	11°26	S 8
S 9	17 11 23	18°41'00	16°33	9°38	18° 5	20° 7	14° 9	26°57	29°59	14°18	21° 9	13°25	13°16	0°29	11°30	S 9
M10	17 15 19	19°38'25	0 ^{III} 41	10° 0	19°17	20°52	14°19	27° 3	29°59	14°19	21°10	13°26	13°13	0°36	11°35	M10
T 11	17 19 16	20°35'49	14°37	10°17	20°29	21°36	14°29	27° 9	29°59	14°20	21°11	13°R26	13°10	0°42	11°40	T 11
W12	17 23 12	21°33'13	28°17	10°30	21°41	22°21	14°39	27°14	29°58	14°22	21°12	13°26	13° 7	0°49	11°45	W12
T 13	17 27 9	22°30'36	11 ^{III} 40	10°38	22°53	23° 5	14°49	27°19	29°58	14°23	21°13	13°25	13° 4	0°56	11°49	T 13
F 14	17 31 6	23°27'58	24°44	10°R41	24° 4	23°49	14°59	27°25	29°57	14°25	21°13	13°24	13° 1	1° 2	11°54	F 14
S 15	17 35 2	24°25'19	7 ^{III} 30	10°40	25°16	24°34	15°10	27°30	29°57	14°27	21°14	13°22	12°57	1° 9	11°59	S 15
S 16	17 38 59	25°22'39	19°58	10°35	26°28	25°18	15°20	27°35	29°56	14°28	21°15	13°21	12°54	1°16	12° 3	S 16
M17	17 42 55	26°19'58	2 ^{IV} 12	10°25	27°40	26° 2	15°31	27°40	29°55	14°30	21°16	13°20	12°51	1°23	12° 8	M17
T 18	17 46 52	27°17'17	14°14	10°11	28°52	26°46	15°41	27°45	29°55	14°31	21°16	13°19	12°48	1°29	12°13	T 18
W19	17 50 48	28°14'34	26°10	9°53	0 ^{III} 4	27°30	15°52	27°50	29°54	14°33	21°17	13°D18	12°45	1°36	12°17	W19
T 20	17 54 45	29°11'51	8 ^{III} 3	9°32	1°16	28°14	16° 3	27°55	29°53	14°35	21°18	13°18	12°41	1°43	12°22	T 20
F 21	17 58 41	0 ^{III} 9'07	19°58	9° 7	2°28	28°58	16°14	28° 0	29°53	14°36	21°18	13°19	12°38	1°49	12°26	F 21
S 22	18 2 38	1° 6'22	2 ^{III} 0	8°39	3°40	29°42	16°25	28° 5	29°52	14°38	21°19	13°20	12°35	1°56	12°31	S 22
S 23	18 6 35	2° 3'37	14°12	8° 9	4°52	0 ^{III} 25	16°36	28°10	29°51	14°40	21°19	13°22	12°32	2° 3	12°35	S 23
M24	18 10 31	3° 0'51	26°39	7°36	6° 5	1° 9	16°47	28°14	29°50	14°41	21°20	13°23	12°29	2°10	12°40	M24
T 25	18 14 28	3°58'05	9 ^{III} 24	7° 2	7°17	1°53	16°58	28°19	29°49	14°43	21°21	13°R24	12°26	2°16	12°45	T 25
W26	18 18 24	4°55'18	22°27	6°27	8°29	2°36	17° 9	28°23	29°48	14°45	21°21	13°24	12°22	2°23	12°49	W26
T 27	18 22 21	5°52'31	5 ^{III} 50	5°52	9°41	3°20	17°20	28°28	29°47	14°47	21°22	13°22	12°19	2°30	12°54	T 27
F 28	18 26 17	6°49'43	19°30	5°17	10°53	4° 3	17°31	28°32	29°46	14°49	21°22	13°20	12°16	2°36	12°58	F 28
S 29	18 30 14	7°46'55	3 ^{III} 26	4°43	12° 6	4°46	17°43	28°36	29°45	14°50	21°23	13°17	12°13	2°43	13° 2	S 29
S 30	18 34 10	8 ^{III} 44'07	17 ^{III} 34	4 ^{III} 10	13 ^{III} 18	5 ^{III} 30	17 ^{III} 54	28 ^{III} 40	29 ^{III} 43	14 ^{III} 52	21 ^{III} 23	13 ^{III} 14	12 ^{III} 10	2 ^{III} 50	13 ^{III} 7	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	22n 5	18s 1	3n25	25n 7	1n45	12n36	1 s51	4n12	1 s30	17n42	0n48	7n57	2s19	12s10	0s45	16n40	0n 6	7s29	16s54	22s24	22s26	4s23	17n54	4s12					
S 2	22 13	14 19	4 16	24 57	1 37	12 59	1 50	4 29	1 30	17 39	0 48	7 59	2 19	12 10	0 45	16 40	0 6	7 29	16 55	22 24	22 26	4 25	17 55	4 12					
M 3	22 20	9 49	4 53	24 46	1 28	13 22	1 49	4 47	1 30	17 37	0 48	8 1	2 19	12 10	0 45	16 40	0 6	7 29	16 55	22 24	22 25	4 27	17 55	4 12					
T 4	22 27	4 45	5 14	24 34	1 18	13 45	1 48	5 4	1 30	17 34	0 48	8 3	2 19	12 10	0 45	16 39	0 6	7 29	16 55	22 24	22 25	4 30	17 56	4 12					
W 5	22 34	0n37	5 15	24 21	1 8	14 7	1 48	5 21	1 29	17 31	0 48	8 5	2 19	12 10	0 45	16 39	0 6	7 29	16 55	22 24	22 24	4 32	17 56	4 13					
T 6	22 40	5 59	4 58	24 7	0 57	14 29	1 47	5 38	1 29	17 28	0 48	8 7	2 19	12 10	0 45	16 39	0 6	7 29	16 56	22 24	22 24	4 35	17 57	4 13					
F 7	22 46	11 4	4 21	23 53	0 45	14 51	1 45	5 55	1 29	17 26	0 47	8 9	2 20	12 10	0 45	16 38	0 6	7 29	16 56	22 24	22 24	4 37	17 57	4 13					
S 8	22 52	15 32	3 29	23 39	0 32	15 12	1 44	6 12	1 29	17 23	0 47	8 10	2 20	12 10	0 45	16 38	0 6	7 29	16 56	22 24	22 23	4 40	17 58	4 13					
S 9	22 57	19 4	2 24	23 23	0 19	15 33	1 43	6 29	1 29	17 20	0 47	8 12	2 20	12 11	0 45	16 37	0 6	7 29	16 57	22 24	22 23	4 42	17 58	4 13					
M10	23 1	21 26	1 10	23 8	0 5	15 54	1 42	6 46	1 29	17 17	0 47	8 14	2 20	12 11	0 45	16 37	0 6	7 29	16 57	22 24	22 22	4 44	17 59	4 13					
T 11	23 6	22 26	0s 7	22 52	0s10	16 15	1 41	7 3	1 29	17 14	0 47	8 16	2 20	12 11	0 45	16 37	0 6	7 29	16 57	22 24	22 22	4 47	17 59	4 13					
W12	23 9	22 4	1 21	22 36	0 25	16 35	1 39	7 19	1 29	17 11	0 47	8 18	2 21	12 11	0 45	16 36	0 6	7 29	16 57	22 24	22 22	4 49	18 0	4 13					
T 13	23 13	20 25	2 30	22 19	0 41	16 54	1 38	7 36	1 29	17 8	0 47	8 19	2 21	12 11	0 45	16 36	0 6	7 29	16 58	22 24	22 21	4 52	18 0	4 13					
F 14	23 16	17 44	3 29	22 3	0 57	17 14	1 36	7 52	1 28	17 5	0 47	8 21	2 21	12 11	0 45	16 35	0 6	7 29	16 58	22 24	22 21	4 54	18 1	4 14					
S 15	23 19	14 15	4 16	21 46	1 14	17 32	1 35	8 9	1 28	17 2	0 47	8 23	2 21	12 12	0 45	16 35	0 6	7 29	16 58	22 24	22 20	4 57	18 1	4 14					
S 16	23 21	10 13	4 50	21 30	1 30	17 51	1 33	8 25	1 28	16 59	0 47	8 25	2 21	12 12	0 45	16 34	0 6	7 29	16 59	22 23	22 20	4 59	18 2	4 14					
M17	23 23	5 51	5 10	21 14	1 47	18 9	1 31	8 41	1 28	16 56	0 47	8 26	2 22	12 12	0 45	16 34	0 6	7 29	16 59	22 23	22 20	5 1	18 2	4 14					
T 18	23 24	1 20	5 16	20 58	2 4	18 26	1 30	8 57	1 28	16 53	0 47	8 28	2 22	12 12	0 45	16 34	0 6	7 29	16 59	22 23	22 19	5 4	18 3	4 14					
W19	23 25	3s11	5 8	20 43	2 21	18 43	1 28	9 13	1 27	16 49	0 47	8 29	2 22	12 13	0 46	16 33	0 6	7 29	17 0	22 23	22 19	5 6	18 3	4 14					
T 20	23 25	7 35	4 47	20 28	2 37	19 0	1 26	9 29	1 27	16 46	0 47	8 31	2 22	12 13	0 46	16 33	0 6	7 29	17 0	22 23	22 18	5 9	18 4	4 14					
F 21	23 26	11 43	4 14	20 14	2 53	19 16	1 24	9 45	1 27	16 43	0 47	8 32	2 22	12 13	0 46	16 32	0 6	7 29	17 0	22 23	22 18	5 11	18 4	4 15					
S 22	23 25	15 26	3 29	20 0	3 9	19 32	1 22	10 0	1 27	16 40	0 47	8 34	2 23	12 14	0 46	16 32	0 6	7 29	17 1	22 23	22 18	5 13	18 4	4 15					
S 23	23 25	18 33	2 34	19 48	3 23	19 47	1 20	10 16	1 26	16 36	0 47	8 35	2 23	12 14	0 46	16 31	0 6	7 29	17 1	22 24	22 17	5 16	18 5	4 15					
M24	23 24	20 52	1 31	19 36	3 37	20 2	1 18	10 31	1 26	16 33	0 47	8 37	2 23	12 14	0 46	16 31	0 6	7 29	17 1	22 24	22 17	5 18	18 5	4 15					
T 25	23 22	22 13	0 22	19 24	3 50	20 16	1 16	10 47	1 26	16 30	0 47	8 38	2 23	12 15	0 46	16 30	0 6	7 29	17 2	22 24	22 16	5 21	18 6	4 15					
W26	23 20	22 23	0n50	19 14	4 2	20 29	1 14	11 2	1 26	16 26	0 47	8 40	2 23	12 15	0 46	16 30	0 6	7 29	17 2	22 24	22 16	5 23	18 6	4 16					
T 27	23 18	21 18	2 0	19 6	4 12	20 42	1 12	11 17	1 25	16 23	0 47	8 41	2 24	12 15	0 46	16 29	0 6	7 30	17 2	22 24	22 16	5 25	18 6	4 16					
F 28	23 15	18 57	3 6	18 58	4 22	20 55	1 10	11 32	1 25	16 19	0 47	8 42	2 24	12 16	0 46	16 29	0 6	7 30	17 3	22 23	22 15	5 28	18 7	4 16					
S 29	23 12	15 28	4 1	18 51	4 29	21 7	1 7	11 47	1 25	16 16	0 47	8 44	2 24	12 16	0 46	16 28	0 6	7 30	17 3	22 23	22 15	5 30	18 7	4 16					
S 30	23n 8	11s 4	4n43	18n46	4s36	21n18	1s 5	12n 1	1s24	16n12	0n47	8n45	2s24	12s17	0s46	16n28	0n 6	7s30	17s 3	22s22	22s14	5s33	18n 7	4s16					

ASTRODIENST EPHEMERIS for the year 2086
geocentric

JULY 2086

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	18 38 7	9♌41'19	1♋49	3°R40	14♊30	6♈13	18♌6	28♎44	29°R42	14♏54	21♎24	13°R10	12♎7	2♌57	13♊11	M 1
T 2	18 42 4	10°38'32	16° 7	3♌11	15°43	6°56	18°17	28°48	29°41	14°56	21°24	13°7	12° 3	3° 3	13°16	T 2
W 3	18 46 0	11°35'44	0♎25	2°46	16°55	7°39	18°29	28°52	29°40	14°58	21°24	13° 6	12° 0	3°10	13°20	W 3
T 4	18 49 57	12°32'56	14°39	2°25	18° 8	8°22	18°41	28°56	29°38	15° 0	21°25	13°D 5	11°57	3°17	13°24	T 4
F 5	18 53 53	13°30'09	28°47	2° 7	19°20	9° 5	18°52	29° 0	29°37	15° 2	21°25	13° 6	11°54	3°23	13°29	F 5
S 6	18 57 50	14°27'22	12♎47	1°53	20°33	9°48	19° 4	29° 3	29°35	15° 4	21°25	13° 7	11°51	3°30	13°33	S 6
S 7	19 1 46	15°24'35	26°38	1°44	21°45	10°30	19°16	29° 7	29°34	15° 6	21°26	13° 9	11°47	3°37	13°37	S 7
M 8	19 5 43	16°21'49	10♊20	1°D40	22°58	11°13	19°28	29°11	29°32	15° 8	21°26	13°R10	11°44	3°44	13°41	M 8
T 9	19 9 39	17°19'03	23°50	1°41	24°10	11°55	19°40	29°14	29°31	15°10	21°26	13° 9	11°41	3°50	13°46	T 9
W10	19 13 36	18°16'17	7♌7	1°46	25°23	12°38	19°52	29°17	29°29	15°12	21°27	13° 7	11°38	3°57	13°50	W10
T 11	19 17 33	19°13'32	20°12	1°57	26°36	13°20	20° 4	29°20	29°28	15°14	21°27	13° 3	11°35	4° 4	13°54	T 11
F 12	19 21 29	20°10'46	3♏3	2°13	27°48	14° 2	20°16	29°23	29°26	15°16	21°27	12°58	11°32	4°10	13°58	F 12
S 13	19 25 26	21° 8'01	15°39	2°35	29° 1	14°45	20°29	29°26	29°24	15°18	21°27	12°52	11°28	4°17	14° 2	S 13
S 14	19 29 22	22° 5'15	28° 2	3° 1	0♌14	15°27	20°41	29°29	29°23	15°20	21°27	12°45	11°25	4°24	14° 6	S 14
M15	19 33 19	23° 2'30	10♎12	3°33	1°26	16° 9	20°53	29°32	29°21	15°22	21°28	12°38	11°22	4°31	14°10	M15
T 16	19 37 15	23°59'44	22°13	4°10	2°39	16°50	21° 5	29°35	29°19	15°24	21°28	12°33	11°19	4°37	14°14	T 16
W17	19 41 12	24°56'59	4♌7	4°52	3°52	17°32	21°18	29°38	29°17	15°26	21°28	12°29	11°16	4°44	14°18	W17
T 18	19 45 8	25°54'14	15°59	5°40	5° 5	18°14	21°30	29°40	29°15	15°28	21°28	12°27	11°13	4°51	14°22	T 18
F 19	19 49 5	26°51'29	27°53	6°33	6°18	18°55	21°43	29°43	29°13	15°31	21°28	12°D26	11° 9	4°57	14°26	F 19
S 20	19 53 2	27°48'45	9♎53	7°30	7°31	19°37	21°55	29°45	29°12	15°33	21°28	12°27	11° 6	5° 4	14°30	S 20
S 21	19 56 58	28°46'00	22° 6	8°33	8°44	20°18	22° 8	29°47	29°10	15°35	21°R28	12°28	11° 3	5°11	14°33	S 21
M22	20 0 55	29°43'16	4♎36	9°41	9°57	20°59	22°20	29°49	29° 8	15°37	21°28	12°29	11° 0	5°18	14°37	M22
T 23	20 4 51	0♏40'32	17°26	10°53	11°10	21°40	22°33	29°51	29° 6	15°39	21°28	12°R29	10°57	5°24	14°41	T 23
W24	20 8 48	1°37'48	0♌39	12°10	12°23	22°21	22°45	29°53	29° 4	15°41	21°28	12°28	10°53	5°31	14°44	W24
T 25	20 12 44	2°35'05	14°17	13°32	13°36	23° 2	22°58	29°55	29° 2	15°43	21°28	12°24	10°50	5°38	14°48	T 25
F 26	20 16 41	3°32'23	28°19	14°58	14°49	23°43	23°11	29°57	29° 0	15°46	21°28	12°19	10°47	5°44	14°52	F 26
S 27	20 20 37	4°29'41	12°40	16°29	16° 2	24°24	23°23	29°58	28°57	15°48	21°28	12°11	10°44	5°51	14°55	S 27
S 28	20 24 34	5°26'59	27°15	18° 4	17°15	25° 4	23°36	0♎0	28°55	15°50	21°27	12° 3	10°41	5°58	14°59	S 28
M29	20 28 31	6°24'18	11♎57	19°43	18°28	25°45	23°49	0° 1	28°53	15°52	21°27	11°55	10°38	6° 5	15° 2	M29
T 30	20 32 27	7°21'39	26°38	21°26	19°42	26°25	24° 2	0° 3	28°51	15°54	21°27	11°49	10°34	6°11	15° 6	T 30
W31	20 36 24	8♏19'00	11♎12	23°12	20°55	27° 6	24°14	0♎4	28°49	15°57	21°R27	11°44	10°31	6°18	15° 9	W31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n 4	6s 2	5n 7	18n42	4s40	21n29	1s 3	12n16	1s24	16n 9	0n47	8n46	2s25	12s17	0s46	16n27	0n 6	7s30	17s 4	22s22	22s14	5s35	18n 8	4s16									
T 2	23 0	0 40	5 13	18 40	4 43	21 40	1 0	12 30	1 24	16 5	0 47	8 47	2 25	12 18	0 46	16 26	0 6	7 30	17 4	22 22	22 13	5 37	18 8	4 17									
W 3	22 55	4n44	4 59	18 39	4 45	21 49	0 58	12 45	1 23	16 1	0 47	8 48	2 25	12 18	0 46	16 26	0 6	7 30	17 4	22 22	22 13	5 40	18 8	4 17									
T 4	22 50	9 52	4 27	18 39	4 45	21 58	0 56	12 59	1 23	15 58	0 47	8 49	2 25	12 19	0 46	16 25	0 6	7 31	17 5	22 21	22 13	5 42	18 9	4 17									
F 5	22 45	14 27	3 39	18 41	4 44	22 7	0 53	13 13	1 23	15 54	0 47	8 51	2 26	12 19	0 46	16 25	0 6	7 31	17 5	22 22	22 12	5 44	18 9	4 17									
S 6	22 39	18 11	2 38	18 44	4 41	22 15	0 51	13 27	1 22	15 50	0 47	8 52	2 26	12 20	0 46	16 24	0 6	7 31	17 5	22 22	22 12	5 47	18 9	4 18									
S 7	22 32	20 50	1 29	18 48	4 37	22 22	0 48	13 40	1 22	15 47	0 47	8 53	2 26	12 20	0 46	16 24	0 6	7 31	17 6	22 22	22 11	5 49	18 9	4 18									
M 8	22 26	22 14	0 15	18 54	4 31	22 29	0 46	13 54	1 21	15 43	0 47	8 54	2 26	12 21	0 46	16 23	0 6	7 32	17 6	22 22	22 11	5 52	18 10	4 18									
T 9	22 18	22 19	0s58	19 0	4 25	22 35	0 43	14 7	1 21	15 39	0 47	8 55	2 27	12 21	0 46	16 22	0 6	7 32	17 6	22 22	22 11	5 54	18 10	4 18									
W10	22 11	21 7	2 7	19 8	4 17	22 40	0 41	14 21	1 20	15 35	0 47	8 55	2 27	12 22	0 46	16 22	0 6	7 32	17 7	22 22	22 10	5 56	18 10	4 19									
T 11	22 3	18 49	3 8	19 16	4 8	22 45	0 38	14 34	1 20	15 32	0 47	8 56	2 27	12 23	0 46	16 21	0 6	7 32	17 7	22 21	22 10	5 59	18 10	4 19									
F 12	21 55	15 36	3 58	19 26	3 59	22 49	0 36	14 47	1 19	15 28	0 47	8 57	2 27	12 23	0 46	16 21	0 6	7 32	17 8	22 21	22 9	6 1	18 11	4 19									
S 13	21 46	11 45	4 36	19 36	3 48	22 52	0 33	15 0	1 19	15 24	0 47	8 58	2 28	12 24	0 46	16 20	0 6	7 33	17 8	22 20	22 9	6 3	18 11	4 19									
S 14	21 37	7 28	4 59	19 46	3 37	22 55	0 31	15 12	1 19	15 20	0 47	8 59	2 28	12 24	0 46	16 20	0 6	7 33	17 8	22 19	22 8	6 6	18 11	4 20									
M15	21 28	2 58	5 9	19 57	3 25	22 57	0 28	15 25	1 18	15 16	0 47	9 0	2 28	12 25	0 46	16 19	0 6	7 33	17 9	22 18	22 8	6 8	18 11	4 20									
T 16	21 18	1s35	5 5	20 9	3 13	22 59	0 25	15 37	1 17	15 12	0 47	9 0	2 28	12 26	0 46	16 18	0 6	7 34	17 9	22 17	22 7	6 10	18 11	4 20									
W17	21 8	6 2	4 48	20 20	3 0	23 0	0 23	15 49	1 17	15 8	0 47	9 1	2 29	12 26	0 46	16 18	0 6	7 34	17 9	22 17	22 7	6 13	18 12	4 20									
T 18	20 57	10 15	4 18	20 32	2 47	23 0	0 20	16 1	1 16	15 4	0 47	9 2	2 29	12 27	0 46	16 17	0 6	7 34	17 10	22 17	22 7	6 15	18 12	4 21									
F 19	20 46	14 6	3 38	20 43	2 33	22 59	0 18	16 13	1 16	15 0	0 47	9 2	2 29	12 28	0 46	16 16	0 6	7 35	17 10	22 16	22 6	6 17	18 12	4 21									
S 20	20 35	17 25	2 47	20 54	2 19	22 58	0 15	16 25	1 15	14 56	0 47	9 3	2 29	12 28	0 46	16 16	0 6	7 35	17 10	22 17	22 6	6 20	18 12	4 21									
S 21	20 24	20 1	1 48	21 4	2 5	22 56	0 12	16 37	1 15	14 52	0 47	9 3	2 30	12 29	0 46	16 15	0 6	7 35	17 11	22 17	22 5	6 22	18 12	4 21									
M22	20 12	21 45	0 43	21 14	1 51	22 54	0 10	16 48	1 14	14 48	0 47	9 4	2 30	12 30	0 47	16 15	0 6	7 35	17 11	22 17	22 5	6 24	18 12	4 22									
T 23	20 0	22 23	0n27	21 23	1 36	22 50	0 7	16 59	1 14	14 44	0 47	9 4	2 30	12 31	0 47	16 14	0 6	7 36	17 11	22 17	22 4	6 27	18 12	4 22									
W24	19 47	21 49	1 36	21 31	1 22	22 47	0 4	17 10	1 13	14 40	0 47	9 5	2 30	12 31	0 47	16 13	0 6	7 36	17 12	22 17	22 4	6 29	18 13	4 22									
T 25	19 34	19 58	2 43	21 37	1 8	22 42	0 2	17 21	1 12	14 36	0 47	9 5	2 31	12 32	0 47	16 13	0 6	7 37	17 12	22 16	22 4	6 31	18 13	4 23									
F 26	19 21	16 53	3 41	21 42	0 54	22 37	0n 1	17 32	1 12	14 32	0 47	9 5	2 31	12 33	0 47	16 12	0 6	7 37	17 13	22 16	22 3	6 34	18 13	4 23									
S 27	19 8	12 44	4 26	21 45	0 40	22 31	0 3	17 43	1 11	14 28	0 47	9 6	2 31	12 34	0 47	16 11	0 6	7 37	17 13	22 15	22 3	6 36	18 13	4 23									
S 28	18 54	7 47	4 56	21 46	0 26	22 25	0 6	17 53	1 10	14 23	0 47	9 6	2 31	12 34	0 47	16 11	0 6	7 38	17 13	22 13	22 2	6 38	18 13	4 24									
M29	18 40	2 22	5 6	21 46	0 13	22 18	0 8	18 3	1 10	14 19	0 47	9 6	2 32	12 35	0 47	16 10	0 6	7 38	17 14	22 12	22 2	6 41	18 13	4 24									
T 30	18 25	3n11	4 56	21 43	0 1	22 10	0 11	18 13	1 9	14 15	0 47	9 7	2 32	12 36	0 47	16 10	0 6	7 38	17 14	22 12	22 1	6 43	18 13	4 24									
W31	18n11	8n31	4n26	21n37	0n12	22n 1	0n13	18n23	1s 8	14n11	0n47	9n 7	2s32	12s37	0s47	16n 9	0n 6	7s39	17s14	22s11	22s 1	6s45	18n13	4s25									

ASTRODIENST EPHEMERIS for the year 2086
geocentric

AUGUST 2086

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 40 20	9♌16'22	25♋33	25♊2	22♊8	27♋46	24♌27	0♎5	28°R47	15♏59	21°R27	11°R41	10♎28	6♊25	15♈12	T 1
F 2	20 44 17	10°13'46	9♋40	26°54	23°22	28°26	24°40	0°6	28°44	16°1	21°Y27	11°D40	10°25	6°31	15°15	F 2
S 3	20 48 13	11°11'10	23°31	28°49	24°35	29°6	24°53	0°7	28°42	16°3	21°26	11♎41	10°22	6°38	15°19	S 3
S 4	20 52 10	12°8'36	7♊6	0♌47	25°48	29°45	25°6	0°8	28°40	16°5	21°26	11°R41	10°19	6°45	15°22	S 4
M 5	20 56 6	13°6'03	20°27	2°46	27°2	0♈25	25°19	0°9	28°38	16°8	21°26	11°41	10°15	6°51	15°25	M 5
T 6	21 0 3	14°3'32	3♊35	4°47	28°15	1°4	25°32	0°9	28°35	16°10	21°25	11°39	10°12	6°58	15°28	T 6
W 7	21 4 0	15°1'01	16°32	6°50	29°29	1°44	25°45	0°10	28°33	16°12	21°25	11°34	10°9	7°5	15°31	W 7
T 8	21 7 56	15°58'31	29°16	8°53	0♌42	2°23	25°58	0°10	28°31	16°14	21°25	11°27	10°6	7°12	15°34	T 8
F 9	21 11 53	16°56'03	11♌50	10°57	1°56	3°2	26°11	0°11	28°28	16°17	21°24	11°17	10°3	7°18	15°37	F 9
S 10	21 15 49	17°53'35	24°14	13°1	3°10	3°41	26°24	0°11	28°26	16°19	21°24	11°6	9°59	7°25	15°40	S 10
S 11	21 19 46	18°51'09	6♊27	15°5	4°23	4°20	26°37	0°R11	28°24	16°21	21°23	10°54	9°56	7°32	15°43	S 11
M12	21 23 42	19°48'44	18°32	17°9	5°37	4°59	26°50	0°11	28°21	16°23	21°23	10°42	9°53	7°38	15°45	M12
T 13	21 27 39	20°46'19	0♊28	19°12	6°51	5°37	27°3	0°11	28°19	16°25	21°23	10°31	9°50	7°45	15°48	T 13
W14	21 31 35	21°43'56	12°20	21°15	8°4	6°15	27°16	0°11	28°17	16°28	21°22	10°23	9°47	7°52	15°51	W14
T 15	21 35 32	22°41'33	24°9	23°16	9°18	6°54	27°29	0°10	28°14	16°30	21°22	10°17	9°44	7°59	15°53	T 15
F 16	21 39 29	23°39'12	6♋1	25°17	10°32	7°32	27°42	0°10	28°12	16°32	21°21	10°13	9°40	8°5	15°56	F 16
S 17	21 43 25	24°36'51	17°59	27°17	11°46	8°10	27°55	0°9	28°10	16°34	21°20	10°12	9°37	8°12	15°58	S 17
S 18	21 47 22	25°34'32	0♎9	29°15	13°0	8°47	28°8	0°9	28°7	16°37	21°20	10°D12	9°34	8°19	16°1	S 18
M19	21 51 18	26°32'14	12°36	1♊13	14°13	9°25	28°21	0°8	28°5	16°39	21°19	10°R12	9°31	8°25	16°3	M19
T 20	21 55 15	27°29'56	25°25	3°9	15°27	10°2	28°35	0°7	28°2	16°41	21°19	10°11	9°28	8°32	16°5	T 20
W21	21 59 11	28°27'40	8♋41	5°4	16°41	10°40	28°48	0°6	28°0	16°43	21°18	10°9	9°25	8°39	16°8	W21
T 22	22 3 8	29°25'25	22°24	6°57	17°55	11°17	29°1	0°5	27°58	16°45	21°18	10°4	9°21	8°45	16°10	T 22
F 23	22 7 4	0♊23'11	6♎36	8°49	19°9	11°54	29°14	0°4	27°55	16°47	21°17	9°56	9°18	8°52	16°12	F 23
S 24	22 11 1	1°20'59	21°13	10°40	20°23	12°30	29°27	0°3	27°53	16°50	21°16	9°46	9°15	8°59	16°14	S 24
S 25	22 14 58	2°18'47	6♋9	12°29	21°37	13°7	29°40	0°1	27°50	16°52	21°16	9°35	9°12	9°6	16°16	S 25
M26	22 18 54	3°16'37	21°14	14°17	22°51	13°44	29°53	29°Y59	27°48	16°54	21°15	9°25	9°9	9°12	16°18	M26
T 27	22 22 51	4°14'29	6♋18	16°3	24°5	14°20	0♊6	29°58	27°46	16°56	21°14	9°15	9°5	9°19	16°20	T 27
W28	22 26 47	5°12'22	21°12	17°49	25°19	14°56	0°19	29°57	27°43	16°58	21°13	9°8	9°2	9°26	16°21	W28
T 29	22 30 44	6°10'18	5♋48	19°32	26°34	15°32	0°32	29°55	27°41	17°0	21°13	9°3	8°59	9°32	16°23	T 29
F 30	22 34 40	7°8'15	20°4	21°15	27°48	16°7	0°45	29°53	27°39	17°3	21°12	9°1	8°56	9°39	16°25	F 30
S 31	22 38 37	8♊6'14	3♊56	22♊56	29♌2	16♈43	0♊58	29°Y51	27°36	17♌5	21°Y11	9♎1	8♎53	9♊46	16♈26	S 31

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	decl	decl	decl	decl	lat	decl	decl	decl	lat
T 1	17n56	13n18	3n41	21n30	0n23	21n52	0n16	18n33	1s 8	14n 7	0n47	9n 7	2s33	12s37	0s47	16n 8	0n 6	7s39	17s15	22s11	22s 0	6s48	18n13	4s25									
F 2	17 40	17 16	2 43	21 20	0 34	21 43	0 18	18 43	1 7	14 2	0 47	9 7	2 33	12 38	0 47	16 8	0 6	7 40	17 15	22 10	22 0	6 50	18 13	4 25									
S 3	17 25	20 11	1 36	21 7	0 44	21 32	0 21	18 52	1 6	13 58	0 47	9 7	2 33	12 39	0 47	16 7	0 6	7 40	17 15	22 10	21 59	6 52	18 13	4 26									
S 4	17 9	21 53	0 24	20 51	0 54	21 21	0 23	19 1	1 5	13 54	0 48	9 7	2 33	12 40	0 47	16 6	0 6	7 40	17 16	22 11	21 59	6 55	18 13	4 26									
M 5	16 53	22 18	0s47	20 33	1 3	21 10	0 26	19 10	1 5	13 49	0 48	9 7	2 34	12 41	0 47	16 6	0 6	7 41	17 16	22 11	21 59	6 57	18 13	4 26									
T 6	16 36	21 29	1 54	20 12	1 11	20 57	0 28	19 19	1 4	13 45	0 48	9 7	2 34	12 41	0 47	16 5	0 6	7 41	17 16	22 10	21 58	6 59	18 13	4 27									
W 7	16 19	19 31	2 54	19 49	1 18	20 45	0 30	19 28	1 3	13 41	0 48	9 7	2 34	12 42	0 47	16 4	0 6	7 42	17 17	22 10	21 58	7 1	18 13	4 27									
T 8	16 2	16 37	3 45	19 23	1 24	20 31	0 33	19 36	1 2	13 36	0 48	9 7	2 34	12 43	0 47	16 4	0 6	7 42	17 17	22 9	21 57	7 4	18 13	4 27									
F 9	15 45	13 0	4 24	18 55	1 30	20 17	0 35	19 45	1 2	13 32	0 48	9 7	2 35	12 44	0 47	16 3	0 6	7 43	17 17	22 7	21 57	7 6	18 13	4 28									
S 10	15 28	8 53	4 49	18 24	1 34	20 3	0 37	19 53	1 1	13 28	0 48	9 7	2 35	12 45	0 47	16 2	0 6	7 43	17 18	22 6	21 56	7 8	18 13	4 28									
S 11	15 10	4 28	5 1	17 52	1 38	19 47	0 39	20 1	1 0	13 23	0 48	9 6	2 35	12 45	0 47	16 2	0 6	7 43	17 18	22 4	21 56	7 11	18 13	4 28									
M12	14 52	0s 3	4 59	17 18	1 41	19 32	0 41	20 9	0 59	13 19	0 48	9 6	2 36	12 46	0 47	16 1	0 6	7 44	17 18	22 2	21 55	7 13	18 13	4 29									
T 13	14 34	4 32	4 44	16 42	1 43	19 15	0 44	20 16	0 58	13 14	0 48	9 6	2 36	12 47	0 47	16 0	0 6	7 44	17 19	22 1	21 55	7 15	18 13	4 29									
W14	14 15	8 49	4 17	16 4	1 45	18 58	0 46	20 24	0 57	13 10	0 48	9 5	2 36	12 48	0 47	16 0	0 6	7 45	17 19	22 0	21 54	7 17	18 13	4 29									
T 15	13 57	12 45	3 39	15 25	1 46	18 41	0 48	20 31	0 57	13 5	0 48	9 5	2 36	12 49	0 47	15 59	0 6	7 45	17 19	21 59	21 54	7 20	18 12	4 30									
F 16	13 38	16 12	2 51	14 45	1 46	18 23	0 50	20 38	0 56	13 1	0 48	9 5	2 37	12 50	0 47	15 58	0 6	7 46	17 20	21 58	21 53	7 22	18 12	4 30									
S 17	13 19	19 1	1 55	14 3	1 45	18 5	0 52	20 45	0 55	12 57	0 48	9 4	2 37	12 50	0 47	15 58	0 6	7 46	17 20	21 58	21 53	7 24	18 12	4 31									
S 18	12 59	21 2	0 53	13 21	1 44	17 46	0 54	20 52	0 54	12 52	0 48	9 4	2 37	12 51	0 47	15 57	0 6	7 47	17 20	21 58	21 52	7 26	18 12	4 31									
M19	12 40	22 5	0n13	12 37	1 42	17 26	0 55	20 59	0 53	12 48	0 48	9 3	2 37	12 52	0 47	15 56	0 6	7 47	17 21	21 58	21 52	7 29	18 12	4 31									
T 20	12 20	22 1	1 20	11 53	1 39	17 6	0 57	21 5	0 52	12 43	0 48	9 3	2 38	12 53	0 47	15 56	0 6	7 48	17 21	21 58	21 51	7 31	18 12	4 32									
W21	12 0	20 44	2 25	11 9	1 37	16 46	0 59	21 11	0 51	12 39	0 48	9 2	2 38	12 54	0 47	15 55	0 6	7 48	17 21	21 58	21 51	7 33	18 12	4 32									
T 22	11 40	18 13	3 23	10 24	1 33	16 25	1 1	21 18	0 50	12 34	0 48	9 2	2 38	12 55	0 47	15 55	0 6	7 49	17 21	21 57	21 51	7 35	18 11	4 32									
F 23	11 20	14 33	4 12	9 38	1 29	16 4	1 2	21 23	0 49	12 30	0 48	9 1	2 38	12 55	0 47	15 54	0 6	7 49	17 22	21 56	21 50	7 38	18 11	4 33									
S 24	10 59	9 55	4 45	8 53	1 25	15 42	1 4	21 29	0 48	12 25	0 49	9 0	2 39	12 56	0 47	15 53	0 6	7 50	17 22	21 54	21 50	7 40	18 11	4 33									
S 25	10 39	4 36	5 0	8 7	1 20	15 20	1 6	21 35	0 47	12 21	0 49	9 0	2 39	12 57	0 47	15 53	0 6	7 50	17 22	21 53	21 49	7 42	18 11	4 34									
M26	10 18	1n 2	4 54	7 20	1 15	14 57	1 7	21 40	0 46	12 16	0 49	8 59	2 39	12 58	0 47	15 52	0 6	7 51	17 23	21 51	21 49	7 44	18 11	4 34									
T 27	9 57	6 36	4 28	6 34	1 10	14 34	1 8	21 46	0 45	12 11	0 49	8 58	2 39	12 59	0 47	15 51	0 6	7 51	17 23	21 50	21 48	7 47	18 11	4 34									
W28	9 36	11 43	3 44	5 48	1 4	14 10	1 10	21 51	0 44	12 7	0 49	8 57	2 40	13 0	0 47	15 51	0 6	7 52	17 23	21 49	21 48	7 49	18 10	4 35									
T 29	9 15	16 3	2 46	5 2	0 58	13 46	1 11	21 56	0 43	12 2	0 49	8 56	2 40	13 0	0 47	15 50	0 6	7 52	17 23	21 48	21 47	7 51	18 10	4 35									
F 30	8 53	19 20	1 38	4 16	0 52	13 22	1 13	22 1	0 42	11 58	0 49	8 56	2 40	13 1	0 47	15 49	0 7	7 53	17 24	21 47	21 47	7 53	18 10	4 36									
S 31	8n32	21n22	0n27	3n30	0n45	12n57	1n14	22n 5	0s41	11n53	0n49	8n55	2s40	13s 2	0s47	15n49	0n 7	7s53	17s24	21s47	21s46	7s56	18n10	4s36									

ASTRODIENST EPHEMERIS for the year 2086
geocentric

OCTOBER 2086

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 40 50	8♌18'25	23♏14	4♍ 2	7♎34	3♏ 8	7♏31	28°R 9	26°R33	18♏ 3	20°R41	6°R12	7♎14	13♏13	16°R42	T 1
W 2	0 44 47	9°17'23	5♏48	4°50	8°49	3°36	7°43	28°Y 5	26°R32	18° 4	20°Y39	6♎ 9	7°11	13°20	16°II42	W 2
T 3	0 48 43	10°16'24	18° 7	5°34	10° 4	4° 3	7°55	28° 0	26°30	18° 6	20°38	6° 3	7° 8	13°27	16°41	T 3
F 4	0 52 40	11°15'27	0♏16	6°15	11°18	4°29	8° 7	27°56	26°29	18° 7	20°37	5°55	7° 5	13°34	16°40	F 4
S 5	0 56 36	12°14'32	12°17	6°51	12°33	4°55	8°19	27°51	26°27	18° 9	20°36	5°46	7° 1	13°40	16°40	S 5
S 6	1 0 33	13°13'39	24°13	7°23	13°48	5°21	8°31	27°47	26°26	18°10	20°35	5°35	6°58	13°47	16°39	S 6
M 7	1 4 29	14°12'48	6♎ 5	7°49	15° 3	5°46	8°43	27°42	26°24	18°11	20°34	5°25	6°55	13°54	16°38	M 7
T 8	1 8 26	15°12'00	17°56	8°10	16°18	6°11	8°54	27°38	26°23	18°13	20°33	5°16	6°52	14° 0	16°37	T 8
W 9	1 12 22	16°11'13	29°46	8°25	17°33	6°36	9° 6	27°33	26°22	18°14	20°31	5° 9	6°49	14° 7	16°36	W 9
T 10	1 16 19	17°10'29	11♍37	8°34	18°48	7° 0	9°18	27°28	26°20	18°16	20°30	5° 4	6°46	14°14	16°34	T 10
F 11	1 20 15	18° 9'46	23°32	8°R35	20° 3	7°24	9°29	27°24	26°19	18°17	20°29	5° 1	6°42	14°20	16°33	F 11
S 12	1 24 12	19° 9'06	5♎34	8°30	21°18	7°47	9°41	27°19	26°18	18°18	20°28	5°D 0	6°39	14°27	16°32	S 12
S 13	1 28 9	20° 8'27	17°46	8°16	22°33	8°10	9°52	27°14	26°17	18°19	20°27	5° 1	6°36	14°34	16°30	S 13
M14	1 32 5	21° 7'50	0♎11	7°54	23°48	8°33	10° 3	27°10	26°16	18°21	20°26	5° 2	6°33	14°41	16°29	M14
T 15	1 36 2	22° 7'15	12°55	7°24	25° 3	8°55	10°14	27° 5	26°15	18°22	20°25	5° 3	6°30	14°47	16°27	T 15
W16	1 39 58	23° 6'41	26° 1	6°46	26°18	9°16	10°26	27° 0	26°14	18°23	20°23	5°R 4	6°27	14°54	16°26	W16
T 17	1 43 55	24° 6'09	9♎32	5°59	27°33	9°37	10°37	26°55	26°13	18°24	20°22	5° 2	6°23	15° 1	16°24	T 17
F 18	1 47 51	25° 5'39	23°31	5° 4	28°48	9°58	10°48	26°50	26°12	18°25	20°21	5° 0	6°20	15° 7	16°23	F 18
S 19	1 51 48	26° 5'11	7♎57	4° 3	0♍ 3	10°18	10°59	26°46	26°11	18°26	20°20	4°55	6°17	15°14	16°21	S 19
S 20	1 55 44	27° 4'44	22°46	2°56	1°18	10°38	11°10	26°41	26°10	18°27	20°19	4°50	6°14	15°21	16°19	S 20
M21	1 59 41	28° 4'19	7°Y54	1°44	2°33	10°57	11°20	26°36	26°10	18°29	20°18	4°44	6°11	15°27	16°17	M21
T 22	2 3 38	29° 3'57	23° 9	0°29	3°48	11°16	11°31	26°31	26° 9	18°29	20°16	4°39	6° 7	15°34	16°15	T 22
W23	2 7 34	0♍ 3'36	8♎22	29♎15	5° 3	11°34	11°42	26°27	26° 8	18°30	20°15	4°35	6° 4	15°41	16°13	W23
T 24	2 11 31	1° 3'17	23°23	28° 1	6°18	11°51	11°52	26°22	26° 8	18°31	20°14	4°33	6° 1	15°47	16°11	T 24
F 25	2 15 27	2° 3'00	8♎ 2	26°52	7°33	12° 8	12° 3	26°17	26° 7	18°32	20°13	4°D33	5°58	15°54	16° 9	F 25
S 26	2 19 24	3° 2'46	22°17	25°49	8°49	12°25	12°13	26°12	26° 7	18°33	20°12	4°34	5°55	16° 1	16° 7	S 26
S 27	2 23 20	4° 2'33	6♎ 3	24°54	10° 4	12°40	12°23	26° 8	26° 6	18°34	20°11	4°35	5°52	16° 8	16° 5	S 27
M28	2 27 17	5° 2'23	19°23	24° 8	11°19	12°56	12°34	26° 3	26° 6	18°35	20°10	4°37	5°48	16°14	16° 2	M28
T 29	2 31 13	6° 2'15	2♎18	23°33	12°34	13°10	12°44	25°58	26° 5	18°36	20° 9	4°R38	5°45	16°21	16° 0	T 29
W30	2 35 10	7° 2'10	14°52	23° 9	13°49	13°25	12°54	25°54	26° 5	18°36	20° 8	4°38	5°42	16°28	15°57	W30
T 31	2 39 7	8♍ 2'06	27♎ 9	22♎57	15♍ 4	13♏38	13♏ 4	25°Y49	26°R 5	18♏37	20°Y 6	4♎36	5♎39	16♎34	15°II55	T 31

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	decl	lat
T 1	3s18	17n45	3s44	15s45	3s 5	1s46	1n21	23n24	0n 0	9n33	0n52	8n14	2s46	13s23	0s46	15n32	0n 7	8s 9	17s29	21s20	21s30	9s 3	17n58	4s49		
W 2	3 41	14 33	4 24	16 7	3 10	2 16	1 20	23 25	0 2	9 29	0 52	8 12	2 46	13 24	0 46	15 31	0 7	8 10	17 29	21 19	21 30	9 5	17 58	4 50		
T 3	4 4	10 47	4 51	16 26	3 15	2 46	1 19	23 26	0 4	9 24	0 52	8 10	2 46	13 24	0 46	15 31	0 7	8 10	17 29	21 18	21 29	9 8	17 57	4 50		
F 4	4 27	6 38	5 4	16 43	3 19	3 16	1 18	23 26	0 5	9 20	0 53	8 9	2 46	13 25	0 46	15 30	0 7	8 10	17 29	21 17	21 29	9 10	17 57	4 50		
S 5	4 50	2 16	5 3	16 59	3 22	3 47	1 17	23 27	0 7	9 16	0 53	8 7	2 46	13 25	0 46	15 30	0 7	8 11	17 29	21 15	21 28	9 12	17 56	4 51		
S 6	5 13	2s 8	4 50	17 12	3 25	4 17	1 16	23 28	0 9	9 11	0 53	8 5	2 46	13 26	0 46	15 29	0 7	8 11	17 29	21 14	21 28	9 14	17 56	4 51		
M 7	5 36	6 27	4 23	17 23	3 27	4 47	1 15	23 29	0 11	9 7	0 53	8 4	2 46	13 26	0 46	15 29	0 7	8 12	17 29	21 12	21 27	9 16	17 55	4 52		
T 8	5 59	10 30	3 46	17 31	3 29	5 16	1 14	23 29	0 12	9 3	0 53	8 2	2 46	13 26	0 46	15 28	0 7	8 12	17 29	21 10	21 27	9 18	17 55	4 52		
W 9	6 22	14 10	2 58	17 36	3 29	5 46	1 12	23 30	0 14	8 59	0 53	8 0	2 47	13 27	0 46	15 28	0 7	8 13	17 29	21 9	21 26	9 20	17 54	4 53		
T 10	6 45	17 16	2 3	17 38	3 28	6 16	1 11	23 30	0 16	8 54	0 53	7 59	2 47	13 27	0 46	15 28	0 7	8 13	17 30	21 8	21 26	9 22	17 54	4 53		
F 11	7 7	19 39	1 2	17 37	3 26	6 45	1 10	23 31	0 18	8 50	0 54	7 57	2 47	13 28	0 46	15 27	0 7	8 14	17 30	21 7	21 25	9 25	17 53	4 53		
S 12	7 30	21 10	0n 3	17 32	3 23	7 15	1 9	23 31	0 20	8 46	0 54	7 55	2 47	13 28	0 46	15 27	0 7	8 14	17 30	21 7	21 25	9 27	17 52	4 54		
S 13	7 52	21 43	1 9	17 23	3 18	7 44	1 7	23 32	0 21	8 42	0 54	7 53	2 47	13 28	0 46	15 26	0 7	8 14	17 30	21 7	21 24	9 29	17 52	4 54		
M14	8 14	21 13	2 12	17 10	3 12	8 13	1 6	23 32	0 23	8 38	0 54	7 52	2 47	13 29	0 46	15 26	0 7	8 15	17 30	21 8	21 23	9 31	17 51	4 55		
T 15	8 37	19 38	3 11	16 53	3 5	8 42	1 4	23 33	0 25	8 34	0 54	7 50	2 47	13 29	0 46	15 26	0 7	8 15	17 30	21 8	21 23	9 33	17 51	4 55		
W16	8 59	16 59	4 2	16 31	2 55	9 11	1 3	23 33	0 27	8 30	0 54	7 48	2 47	13 29	0 46	15 25	0 7	8 16	17 29	21 8	21 22	9 35	17 50	4 55		
T 17	9 21	13 21	4 41	16 5	2 44	9 39	1 1	23 34	0 29	8 25	0 54	7 47	2 47	13 30	0 46	15 25	0 7	8 16	17 29	21 8	21 22	9 37	17 50	4 56		
F 18	9 42	8 53	5 5	15 34	2 31	10 7	0 59	23 34	0 31	8 21	0 55	7 45	2 47	13 30	0 46	15 25	0 7	8 16	17 29	21 7	21 21	9 39	17 49	4 56		
S 19	10 4	3 47	5 10	15 0	2 16	10 35	0 57	23 35	0 33	8 17	0 55	7 43	2 47	13 30	0 46	15 24	0 7	8 17	17 29	21 6	21 21	9 41	17 49	4 56		
S 20	10 26	1n40	4 56	14 21	1 59	11 3	0 56	23 35	0 35	8 13	0 55	7 41	2 47	13 30	0 46	15 24	0 7	8 17	17 29	21 5	21 20	9 43	17 48	4 57		
M21	10 47	7 7	4 21	13 39	1 41	11 31	0 54	23 36	0 37	8 9	0 55	7 40	2 47	13 31	0 46	15 24	0 7	8 18	17 29	21 4	21 20	9 46	17 48	4 57		
T 22	11 8	12 11	3 27	12 55	1 22	11 58	0 52	23 36	0 40	8 6	0 55	7 38	2 47	13 31	0 46	15 23	0 7	8 18	17 29	21 3	21 19	9 48	17 47	4 58		
W23	11 29	16 28	2 18	12 10	1 2	12 25	0 50	23 37	0 42	8 2	0 55	7 36	2 47	13 31	0 46	15 23	0 7	8 18	17 29	21 3	21 19	9 50	17 46	4 58		
T 24	11 50	19 35	1 1	11 25	0 41	12 51	0 48	23 38	0 44	7 58	0 56	7 35	2 47	13 31	0 46	15 23	0 7	8 19	17 29	21 2	21 18	9 52	17 46	4 58		
F 25	12 11	21 19	0s19	10 40	0 21	13 18	0 46	23 38	0 46	7 54	0 56	7 33	2 47	13 31	0 46	15 23	0 7	8 19	17 29	21 2	21 17	9 54	17 45	4 59		
S 26	12 31	21 37	1 36	9 59	0 0	13 44	0 44	23 39	0 48	7 50	0 56	7 31	2 47	13 31	0 46	15 22	0 7	8 19	17 29	21 2	21 17	9 56	17 45	4 59		
S 27	12 52	20 33	2 44	9 20	0n19	14 10	0 42	23 40	0 51	7 46	0 56	7 30	2 47	13 32	0 46	15 22	0 7	8 20	17 29	21 3	21 16	9 58	17 44	4 59		
M28	13 12	18 22	3 41	8 46	0 38	14 35	0 40	23 41	0 53	7 43	0 56	7 28	2 46	13 32	0 46	15 22	0 7	8 20	17 29	21 3	21 16	10 0	17 44	5 0		
T 29	13 32	15 19	4 25	8 17	0 55	15 0	0 38	23 41	0 55	7 39	0 57	7 26	2 46	13 32	0 46	15 22	0 7	8 20	17 29	21 3	21 15	10 2	17 43	5 0		
W30	13 51	11 39	4 56	7 54	1 10	15 25	0 36	23 42	0 57	7 35	0 57	7 25	2 46	13 32	0 45	15 21	0 7	8 20	17 29	21 3	21 15	10 4	17 42	5 0		
T 31	14s11	7n34	5s11	7s37	1n24	15s49	0n34	23n43	1n 0	7n32	0n57	7n23	2s46	13s32	0s45	15n21	0n 7	8s21	17s28	21s 3	21s14	10s 6	17n42	5s 1		

ASTRODIENST EPHEMERIS for the year 2086

geocentric

NOVEMBER 2086

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 43 3	9♈ 2'04	9♈ 14	22°D56	16♈ 19	13♈ 51	13♈ 13	25°R44	26°R 5	18♈ 38	20°R 5	4°R33	5°♈ 36	16°♈ 41	15°R53	F 1
S 2	2 47 0	10° 2'05	21°11	23°♈ 6	17°34	14° 3	13°23	25°♈ 40	26°♈ 4	18°38	20°♈ 4	4°♈ 30	5°33	16°48	15°II50	S 2
S 3	2 50 56	11° 2'08	3°♈ 3	23°26	18°49	14°14	13°33	25°35	26° 4	18°39	20° 3	4°26	5°29	16°54	15°47	S 3
M 4	2 54 53	12° 2'13	14°53	23°57	20° 4	14°25	13°42	25°31	26° 4	18°40	20° 2	4°22	5°26	17° 1	15°45	M 4
T 5	2 58 49	13° 2'19	26°43	24°36	21°20	14°35	13°52	25°26	26°D 4	18°40	20° 1	4°18	5°23	17° 8	15°42	T 5
W 6	3 2 46	14° 2'28	8♈ 37	25°23	22°35	14°45	14° 1	25°22	26° 4	18°41	20° 0	4°15	5°20	17°14	15°39	W 6
T 7	3 6 42	15° 2'38	20°35	26°17	23°50	14°53	14°10	25°17	26° 4	18°41	19°59	4°14	5°17	17°21	15°36	T 7
F 8	3 10 39	16° 2'51	2°♈ 40	27°18	25° 5	15° 1	14°19	25°13	26° 4	18°42	19°58	4°D13	5°13	17°28	15°34	F 8
S 9	3 14 36	17° 3'05	14°53	28°24	26°20	15° 8	14°28	25° 9	26° 5	18°42	19°57	4°13	5°10	17°34	15°31	S 9
S 10	3 18 32	18° 3'21	27°16	29°35	27°35	15°15	14°37	25° 5	26° 5	18°42	19°56	4°14	5° 7	17°41	15°28	S 10
M11	3 22 29	19° 3'38	9♈ 52	0♈ 50	28°50	15°21	14°46	25° 1	26° 5	18°43	19°55	4°16	5° 4	17°48	15°25	M11
T 12	3 26 25	20° 3'57	22°43	2° 9	0°♈ 6	15°25	14°54	24°56	26° 6	18°43	19°54	4°17	5° 1	17°55	15°22	T 12
W13	3 30 22	21° 4'17	5°♈ 52	3°30	1°21	15°30	15° 3	24°52	26° 6	18°43	19°53	4°18	4°58	18° 1	15°19	W13
T 14	3 34 18	22° 4'38	19°20	4°54	2°36	15°33	15°11	24°48	26° 6	18°44	19°52	4°R18	4°54	18° 8	15°16	T 14
F 15	3 38 15	23° 5'01	3°♈ 8	6°20	3°51	15°35	15°19	24°44	26° 7	18°44	19°51	4°18	4°51	18°15	15°12	F 15
S 16	3 42 11	24° 5'25	17°19	7°48	5° 6	15°37	15°27	24°41	26° 7	18°44	19°50	4°17	4°48	18°21	15° 9	S 16
S 17	3 46 8	25° 5'51	1°♈ 48	9°17	6°21	15°38	15°35	24°37	26° 8	18°44	19°49	4°17	4°45	18°28	15° 6	S 17
M18	3 50 5	26° 6'18	16°34	10°48	7°36	15°R38	15°43	24°33	26° 9	18°44	19°48	4°15	4°42	18°35	15° 3	M18
T 19	3 54 1	27° 6'46	1°♈ 29	12°19	8°52	15°37	15°51	24°29	26° 9	18°44	19°47	4°15	4°38	18°41	15° 0	T 19
W20	3 57 58	28° 7'16	16°26	13°51	10° 7	15°36	15°59	24°26	26°10	18°44	19°47	4°14	4°35	18°48	14°56	W20
T 21	4 1 54	29° 7'47	1°II 18	15°24	11°22	15°33	16° 6	24°22	26°11	18°R44	19°46	4°D14	4°32	18°55	14°53	T 21
F 22	4 5 51	0°♈ 8'20	15°55	16°57	12°37	15°30	16°13	24°19	26°12	18°44	19°45	4°14	4°29	19° 1	14°50	F 22
S 23	4 9 47	1° 8'54	0°♈ 13	18°30	13°52	15°26	16°20	24°16	26°13	18°44	19°44	4°14	4°26	19° 8	14°46	S 23
S 24	4 13 44	2° 9'30	14° 6	20° 4	15° 7	15°21	16°27	24°12	26°14	18°44	19°43	4°14	4°23	19°15	14°43	S 24
M25	4 17 40	3°10'07	27°33	21°38	16°22	15°15	16°34	24° 9	26°15	18°44	19°42	4°15	4°19	19°21	14°40	M25
T 26	4 21 37	4°10'46	10°♈ 36	23°12	17°38	15° 8	16°41	24° 6	26°16	18°44	19°42	4°R15	4°16	19°28	14°36	T 26
W27	4 25 34	5°11'27	23°15	24°47	18°53	15° 1	16°48	24° 3	26°17	18°44	19°41	4°15	4°13	19°35	14°33	W27
T 28	4 29 30	6°12'09	5°♈ 36	26°21	20° 8	14°52	16°54	24° 0	26°18	18°43	19°40	4°D15	4°10	19°41	14°29	T 28
F 29	4 33 27	7°12'53	17°42	27°55	21°23	14°43	17° 1	23°57	26°19	18°43	19°39	4°15	4° 7	19°48	14°26	F 29
S 30	4 37 23	8°♈ 13'38	29°♈ 38	29°♈ 29	22°♈ 38	14°♈ 32	17°♈ 7	23°♈ 55	26°♈ 20	18°♈ 43	19°♈ 39	4°♈ 15	4°♈ 4	19°♈ 55	14°II 22	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	14s30	3n16	5s13	7s25	1n36	16s13	0n31	23n44	1n 2	7n28	0n57	7n22	2s46	13s32	0s45	15n21	0n 7	8s21	17s28	21s 2	21s14	10s 8	17n41	5s 1			
S 2	14 49	1s 7	5 1	7 19	1 46	16 36	0 29	23 46	1 5	7 25	0 57	7 20	2 46	13 32	0 45	15 21	0 7	8 21	17 28	21 2	21 13	10 10	17 41	5 1			
S 3	15 8	5 26	4 36	7 19	1 55	16 59	0 27	23 47	1 7	7 21	0 57	7 19	2 46	13 32	0 45	15 21	0 7	8 22	17 28	21 1	21 12	10 12	17 40	5 2			
M 4	15 26	9 32	3 59	7 24	2 2	17 21	0 25	23 48	1 10	7 18	0 58	7 17	2 46	13 32	0 45	15 21	0 7	8 22	17 28	21 0	21 12	10 14	17 39	5 2			
T 5	15 45	13 17	3 12	7 33	2 7	17 44	0 22	23 50	1 12	7 14	0 58	7 15	2 46	13 32	0 45	15 20	0 7	8 22	17 28	21 0	21 11	10 16	17 39	5 2			
W 6	16 3	16 31	2 17	7 47	2 11	18 5	0 20	23 51	1 15	7 11	0 58	7 14	2 46	13 32	0 45	15 20	0 7	8 22	17 28	20 59	21 11	10 18	17 38	5 3			
T 7	16 20	19 5	1 15	8 4	2 13	18 26	0 18	23 53	1 17	7 7	0 58	7 13	2 46	13 32	0 45	15 20	0 7	8 23	17 27	20 59	21 10	10 20	17 38	5 3			
F 8	16 38	20 49	0 9	8 25	2 15	18 47	0 15	23 54	1 20	7 4	0 58	7 11	2 45	13 32	0 45	15 20	0 7	8 23	17 27	20 59	21 10	10 22	17 37	5 3			
S 9	16 55	21 36	0n59	8 48	2 15	19 7	0 13	23 56	1 23	7 1	0 59	7 10	2 45	13 32	0 45	15 20	0 7	8 23	17 27	20 59	21 9	10 24	17 37	5 4			
S 10	17 12	21 20	2 4	9 14	2 14	19 27	0 10	23 58	1 25	6 58	0 59	7 8	2 45	13 31	0 45	15 20	0 8	8 23	17 27	20 59	21 8	10 27	17 36	5 4			
M11	17 29	19 59	3 5	9 42	2 12	19 46	0 8	24 0	1 28	6 54	0 59	7 7	2 45	13 31	0 45	15 20	0 8	8 23	17 27	20 59	21 8	10 29	17 35	5 4			
T 12	17 45	17 36	3 58	10 11	2 10	20 4	0 6	24 2	1 31	6 51	0 59	7 6	2 45	13 31	0 45	15 20	0 8	8 23	17 27	20 59	21 7	10 31	17 35	5 4			
W13	18 1	14 17	4 39	10 42	2 6	20 22	0 3	24 4	1 33	6 48	0 59	7 4	2 45	13 31	0 45	15 20	0 8	8 24	17 26	21 0	21 7	10 33	17 34	5 5			
T 14	18 17	10 10	5 6	11 13	2 3	20 39	0 1	24 7	1 36	6 45	1 0	7 3	2 45	13 31	0 45	15 19	0 8	8 24	17 26	21 0	21 6	10 35	17 34	5 5			
F 15	18 32	5 25	5 17	11 46	1 58	20 56	0s 2	24 9	1 39	6 42	1 0	7 2	2 44	13 31	0 45	15 19	0 8	8 24	17 26	21 0	21 6	10 37	17 33	5 5			
S 16	18 47	0 16	5 9	12 19	1 54	21 12	0 4	24 12	1 42	6 39	1 0	7 0	2 44	13 30	0 45	15 19	0 8	8 24	17 26	20 59	21 5	10 39	17 33	5 5			
S 17	19 2	5n 1	4 41	12 52	1 48	21 28	0 7	24 15	1 45	6 36	1 0	6 59	2 44	13 30	0 45	15 19	0 8	8 24	17 26	20 59	21 4	10 41	17 32	5 6			
M18	19 16	10 7	3 55	13 26	1 43	21 43	0 9	24 18	1 48	6 33	1 1	6 58	2 44	13 30	0 45	15 19	0 8	8 24	17 25	20 59	21 4	10 43	17 31	5 6			
T 19	19 30	14 40	2 52	13 59	1 37	21 57	0 12	24 20	1 50	6 31	1 1	6 57	2 44	13 30	0 45	15 19	0 8	8 24	17 25	20 59	21 3	10 45	17 31	5 6			
W20	19 44	18 18	1 37	14 33	1 31	22 11	0 14	24 24	1 53	6 28	1 1	6 56	2 44	13 29	0 45	15 19	0 8	8 25	17 25	20 59	21 3	10 47	17 30	5 6			
T 21	19 57	20 41	0 16	15 6	1 24	22 24	0 16	24 27	1 56	6 25	1 1	6 55	2 43	13 29	0 45	15 19	0 8	8 25	17 25	20 59	21 2	10 49	17 30	5 6			
F 22	20 10	21 37	1s 5	15 39	1 18	22 37	0 19	24 30	1 59	6 23	1 1	6 54	2 43	13 29	0 45	15 19	0 8	8 25	17 24	20 59	21 2	10 50	17 29	5 7			
S 23	20 23	21 6	2 19	16 11	1 11	22 48	0 21	24 33	2 2	6 20	1 2	6 52	2 43	13 28	0 45	15 19	0 8	8 25	17 24	20 59	21 1	10 52	17 29	5 7			
S 24	20 35	19 18	3 24	16 43	1 5	22 59	0 24	24 37	2 5	6 18	1 2	6 51	2 43	13 28	0 45	15 19	0 8	8 25	17 24	20 59	21 0	10 54	17 28	5 7			
M25	20 47	16 28	4 15	17 14	0 58	23 10	0 26	24 41	2 8	6 15	1 2	6 51	2 43	13 28	0 45	15 20	0 8	8 25	17 24	20 59	21 0	10 56	17 27	5 7			
T 26	20 58	12 54	4 51	17 45	0 51	23 20	0 29	24 44	2 11	6 13	1 2	6 50	2 42	13 27	0 45	15 20	0 8	8 25	17 23	20 59	20 59	10 58	17 27	5 7			
W27	21 9	8 51	5 12	18 15	0 44	23 29	0 31	24 48	2 14	6 10	1 3	6 49	2 42	13 27	0 44	15 20	0 8	8 25	17 23	20 59	20 59	11 0	17 26	5 8			
T 28	21 20	4 32	5 18	18 44	0 37	23 37	0 33	24 52	2 17	6 8	1 3	6 48	2 42	13 26	0 44	15 20	0 8	8 25	17 23	20 59	20 58	11 2	17 26	5 8			
F 29	21 30	0 7	5 9	19 12	0 30	23 44	0 36	24 56	2 20	6 6	1 3	6 47	2 42	13 26	0 44	15 20	0 8	8 25	17 23	20 59	20 57	11 4	17 25	5 8			
S 30	21s40	4s15	4s47	19s40	0n23	23s51	0s38	25n 0	2n23	6n 4	1n 3	6n46	2s41	13s26	0s44	15n20	0n 8	8s25	17s22	20s59	20s57	11s 6	17n25	5s 8			

ASTRODIENST EPHEMERIS for the year 2086

geocentric

DECEMBER 2086

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 20	9°14'25	11°28	1°4	23°53	14°R21	17°13	23°R52	26°22	18°R42	19°R38	4°15	4°0	20°2	14°R19	S 1
M 2	4 45 16	10°15'14	23°17	2°38	25°8	14°S 9	17°19	23°Y49	26°23	18°R42	19°Y37	4°16	3°57	20°8	14°II15	M 2
T 3	4 49 13	11°16'03	5°11	4°12	26°23	13°57	17°24	23°47	26°25	18°42	19°37	4°17	3°54	20°15	14°12	T 3
W 4	4 53 9	12°16'54	17°8	5°46	27°39	13°43	17°30	23°45	26°26	18°41	19°36	4°17	3°51	20°22	14°8	W 4
T 5	4 57 6	13°17'47	29°15	7°21	28°54	13°29	17°35	23°42	26°27	18°41	19°35	4°R18	3°48	20°28	14°5	T 5
F 6	5 1 3	14°18'40	11°13	8°55	0°9	13°14	17°40	23°40	26°29	18°40	19°35	4°18	3°44	20°35	14°1	F 6
S 7	5 4 59	15°19'35	24°3	10°29	1°24	12°58	17°45	23°38	26°31	18°40	19°34	4°17	3°41	20°42	13°58	S 7
S 8	5 8 56	16°20'31	6°34	12°3	2°39	12°41	17°50	23°36	26°32	18°39	19°34	4°16	3°38	20°48	13°54	S 8
M 9	5 12 52	17°21'27	19°42	13°37	3°54	12°23	17°55	23°34	26°34	18°39	19°33	4°14	3°35	20°55	13°51	M 9
T 10	5 16 49	18°22'25	2°52	15°11	5°9	12°5	17°59	23°33	26°36	18°38	19°33	4°12	3°32	21°2	13°47	T 10
W11	5 20 45	19°23'23	16°15	16°45	6°25	11°47	18°4	23°31	26°37	18°37	19°32	4°10	3°29	21°8	13°44	W11
T 12	5 24 42	20°24'22	29°51	18°19	7°40	11°27	18°8	23°29	26°39	18°37	19°32	4°9	3°25	21°15	13°40	T 12
F 13	5 28 39	21°25'21	13°40	19°54	8°55	11°7	18°12	23°28	26°41	18°36	19°31	4°8	3°22	21°22	13°37	F 13
S 14	5 32 35	22°26'21	27°41	21°28	10°10	10°47	18°16	23°27	26°43	18°35	19°31	4°D 8	3°19	21°28	13°33	S 14
S 15	5 36 32	23°27'21	11°Y54	23°2	11°25	10°26	18°20	23°25	26°45	18°34	19°30	4°8	3°16	21°35	13°30	S 15
M16	5 40 28	24°28'21	26°15	24°37	12°40	10°4	18°23	23°24	26°47	18°33	19°30	4°10	3°13	21°42	13°26	M16
T 17	5 44 25	25°29'23	10°B43	26°11	13°55	9°42	18°26	23°23	26°49	18°33	19°30	4°11	3°10	21°48	13°23	T 17
W18	5 48 21	26°30'24	25°12	27°46	15°10	9°20	18°30	23°22	26°51	18°32	19°29	4°12	3°6	21°55	13°20	W18
T 19	5 52 18	27°31'27	9°II39	29°21	16°25	8°57	18°33	23°22	26°53	18°31	19°29	4°R12	3°3	22°2	13°16	T 19
F 20	5 56 14	28°32'29	23°58	0°B56	17°40	8°35	18°35	23°21	26°55	18°30	19°28	4°11	3°0	22°8	13°13	F 20
S 21	6 0 11	29°33'33	8°S 4	2°31	18°55	8°11	18°38	23°20	26°57	18°29	19°28	4°9	2°57	22°15	13°10	S 21
S 22	6 4 8	0°B34'37	21°51	4°6	20°10	7°48	18°40	23°20	27°0	18°28	19°28	4°5	2°54	22°22	13°6	S 22
M23	6 8 4	1°35'41	5°D18	5°42	21°25	7°24	18°43	23°20	27°2	18°27	19°28	4°1	2°51	22°29	13°3	M23
T 24	6 12 1	2°36'46	18°23	7°17	22°40	7°1	18°45	23°19	27°4	18°26	19°27	3°56	2°47	22°35	13°0	T 24
W25	6 15 57	3°37'52	1°11 6	8°53	23°55	6°37	18°46	23°19	27°7	18°25	19°27	3°52	2°44	22°42	12°56	W25
T 26	6 19 54	4°38'59	13°31	10°29	25°10	6°13	18°48	23°D19	27°9	18°24	19°27	3°48	2°41	22°49	12°53	T 26
F 27	6 23 50	5°40'05	25°39	12°6	26°25	5°49	18°50	23°19	27°11	18°23	19°27	3°46	2°38	22°55	12°50	F 27
S 28	6 27 47	6°41'13	7°B36	13°42	27°40	5°26	18°51	23°19	27°14	18°22	19°27	3°D46	2°35	23°2	12°47	S 28
S 29	6 31 43	7°42'21	19°27	15°19	28°55	5°2	18°52	23°20	27°16	18°20	19°27	3°46	2°31	23°9	12°44	S 29
M30	6 35 40	8°43'30	1°11 16	16°56	0°A10	4°39	18°53	23°20	27°19	18°19	19°27	3°48	2°28	23°15	12°41	M30
T 31	6 39 37	9°B44'39	13°11 9	18°B33	1°A25	4°S16	18°11 54	23°Y21	27°A22	18°D18	19°Y26	3°A50	2°A25	23°A22	12°II38	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	21s49	8s25	4s13	20s 6	0n16	23s57	0s40	25n 4	2n26	6n 2	1n 4	6n45	2s41	13s25	0s44	15n20
M 2	21 58	12 16	3 29	20 32	0 9	24 3	0 43	25 9	2 29	5 59	1 4	6 45	2 41	13 25	0 44	15 20
T 3	22 7	15 40	2 35	20 57	0 2	24 8	0 45	25 13	2 32	5 57	1 4	6 44	2 41	13 24	0 44	15 20
W 4	22 15	18 26	1 34	21 20	0s 5	24 12	0 47	25 17	2 35	5 56	1 4	6 43	2 40	13 24	0 44	15 20
T 5	22 23	20 26	0 28	21 43	0 12	24 15	0 49	25 22	2 38	5 54	1 5	6 43	2 40	13 23	0 44	15 21
F 6	22 30	21 30	0n40	22 5	0 19	24 17	0 52	25 26	2 41	5 52	1 5	6 42	2 40	13 22	0 44	15 21
S 7	22 37	21 30	1 47	22 25	0 25	24 19	0 54	25 31	2 44	5 50	1 5	6 42	2 40	13 22	0 44	15 21
S 8	22 44	20 25	2 50	22 45	0 32	24 20	0 56	25 35	2 47	5 48	1 5	6 41	2 39	13 21	0 44	15 21
M 9	22 50	18 15	3 46	23 3	0 38	24 20	0 58	25 40	2 49	5 47	1 6	6 41	2 39	13 21	0 44	15 21
T 10	22 55	15 7	4 30	23 20	0 44	24 20	1 0	25 44	2 52	5 45	1 6	6 40	2 39	13 20	0 44	15 22
W11	23 0	11 10	5 1	23 36	0 50	24 18	1 2	25 49	2 55	5 44	1 6	6 40	2 39	13 19	0 44	15 22
T 12	23 5	6 36	5 15	23 51	0 56	24 16	1 4	25 53	2 58	5 42	1 6	6 40	2 38	13 19	0 44	15 22
F 13	23 9	1 37	5 12	24 5	1 2	24 13	1 6	25 57	3 0	5 41	1 7	6 39	2 38	13 18	0 44	15 22
S 14	23 13	3n31	4 50	24 17	1 8	24 10	1 8	26 2	3 3	5 40	1 7	6 39	2 38	13 17	0 44	15 23
S 15	23 16	8 32	4 10	24 28	1 13	24 6	1 10	26 6	3 5	5 39	1 7	6 39	2 38	13 17	0 44	15 23
M16	23 19	13 9	3 14	24 38	1 19	24 1	1 11	26 10	3 8	5 38	1 7	6 39	2 37	13 16	0 44	15 23
T 17	23 21	17 1	2 6	24 46	1 24	23 55	1 13	26 14	3 10	5 37	1 8	6 39	2 37	13 15	0 44	15 23
W18	23 23	19 51	0 49	24 53	1 29	23 48	1 15	26 18	3 12	5 36	1 8	6 39	2 37	13 15	0 44	15 24
T 19	23 24	21 24	0s30	24 59	1 34	23 41	1 17	26 22	3 15	5 35	1 8	6 39	2 37	13 14	0 44	15 24
F 20	23 25	21 31	1 47	25 3	1 38	23 33	1 18	26 25	3 17	5 34	1 9	6 39	2 36	13 13	0 44	15 24
S 21	23 26	20 16	2 56	25 6	1 42	23 25	1 20	26 29	3 19	5 33	1 9	6 39	2 36	13 12	0 44	15 25
S 22	23 26	17 50	3 53	25 8	1 46	23 15	1 21	26 32	3 21	5 32	1 9	6 39	2 36	13 11	0 44	15 25
M23	23 25	14 29	4 35	25 8	1 50	23 5	1 23	26 36	3 23	5 32	1 9	6 39	2 35	13 11	0 44	15 25
T 24	23 24	10 31	5 2	25 7	1 53	22 54	1 24	26 39	3 25	5 31	1 10	6 39	2 35	13 10	0 44	15 25
W25	23 23	6 12	5 13	25 4	1 57	22 43	1 25	26 42	3 26	5 31	1 10	6 39	2 35	13 9	0 44	15 26
T 26	23 21	1 43	5 9	25 0	1 59	22 31	1 27	26 45	3 28	5 30	1 10	6 40	2 35	13 8	0 44	15 26
F 27	23 18	2s43	4 51	24 54	2 2	22 18	1 28	26 47	3 30	5 30	1 10	6 40	2 34	13 7	0 44	15 27
S 28	23 15	7 0	4 20	24 47	2 4	22 4	1 29	26 50	3 31	5 30	1 11	6 40	2 34	13 6	0 44	15 27
S 29	23 12	10 59	3 39	24 38	2 6	21 50	1 30	26 52	3 32	5 30	1 11	6 41	2 34	13 6	0 43	15 27
M30	23 8	14 33	2 49	24 28	2 8	21 35	1 31	26 54	3 34	5 29	1 11	6 41	2 33	13 5	0 43	15 28
T 31	23s 4	17s32	1s51	24s16	2s 9	21s20	1s32	26s56	3n35	5n29	1n12	6n41	2s33	13s 4	0s43	15n28

Julian Day Number = 2483290.5, Delta T = 87.47 sec
 Ecliptic obliquity = 23°25'36", Nutation = 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°57'17", Lahiri = 25°04'17"