



Astrodienst Ephemeris Tables for the year 2085

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 D5EPH

ASTRODIENST EPHEMERIS for the year 2085

geocentric

JANUARY 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 45 28	11°15'53	15°12'12	27°26'26	25°44'44	14°8'2	10°R29	28°18'18	19°47'47	13°R45	17°24'24	11°R 5	11°15'53	1°15'58	0°R25	M 1
T 2	6 49 24	12°17'03	29°15'15	28°56'56	26°59'59	14°16'16	10°20'20	28°22'22	19°50'50	13°R43	17°24'24	11°R 4	10°58'58	2°4'4	0°12'23	T 2
W 3	6 53 21	13°18'12	12°53'53	0°27'27	28°15'15	14°29'29	10°12'12	28°25'25	19°53'53	13°42'42	17°24'24	11°D 4	10°55'55	2°11'11	0°20'20	W 3
T 4	6 57 17	14°19'21	26°8'8	1°58'58	29°30'30	14°44'44	10°4'4	28°29'29	19°56'56	13°40'40	17°24'24	11°5'5	10°52'52	2°18'18	0°18'18	T 4
F 5	7 1 14	15°20'30	9°8'3	3°30'30	0°45'45	14°59'59	9°56'56	28°33'33	19°59'59	13°39'39	17°24'24	11°5'5	10°49'49	2°24'24	0°16'16	F 5
S 6	7 5 11	16°21'38	21°40'40	5°2'2	2°1'1	15°14'14	9°48'48	28°36'36	20°2'2	13°38'38	17°24'24	11°5'5	10°45'45	2°31'31	0°14'14	S 6
S 7	7 9 7	17°22'46	4°11'3	6°34'34	3°16'16	15°30'30	9°40'40	28°40'40	20°5'5	13°36'36	17°24'24	11°6'6	10°42'42	2°38'38	0°12'12	S 7
M 8	7 13 4	18°23'54	16°14'14	8°7'7	4°31'31	15°46'46	9°32'32	28°44'44	20°8'8	13°35'35	17°24'24	11°7'7	10°39'39	2°44'44	0°10'10	M 8
T 9	7 17 0	19°25'02	28°15'15	9°40'40	5°47'47	16°3'3	9°24'24	28°48'48	20°11'11	13°33'33	17°24'24	11°7'7	10°36'36	2°51'51	0°8'8	T 9
W10	7 20 57	20°26'09	10°26'09	11°13'13	7°2'2	16°20'20	9°16'16	28°52'52	20°14'14	13°32'32	17°25'25	11°R 8	10°33'33	2°58'58	0°7'7	W10
T 11	7 24 53	21°27'16	22°2'2	12°47'47	8°17'17	16°38'38	9°9'9	28°57'57	20°18'18	13°30'30	17°25'25	11°7'7	10°30'30	3°4'4	0°5'5	T 11
F 12	7 28 50	22°28'23	3°12'51	14°22'22	9°33'33	16°57'57	9°1'1	29°1'1	20°21'21	13°29'29	17°25'25	11°6'6	10°26'26	3°11'11	0°3'3	F 12
S 13	7 32 46	23°29'29	15°39'39	15°57'57	10°48'48	17°15'15	8°53'53	29°5'5	20°24'24	13°27'27	17°25'25	11°5'5	10°23'23	3°18'18	0°2'2	S 13
S 14	7 36 43	24°30'36	27°30'30	17°32'32	12°4'4	17°34'34	8°46'46	29°10'10	20°27'27	13°25'25	17°26'26	11°3'3	10°20'20	3°24'24	0°0'0	S 14
M15	7 40 40	25°31'42	9°12'25	19°8'8	13°19'19	17°54'54	8°38'38	29°14'14	20°30'30	13°24'24	17°26'26	11°1'1	10°17'17	3°31'31	29°59'59	M15
T 16	7 44 36	26°32'47	21°27'27	20°44'44	14°34'34	18°14'14	8°31'31	29°19'19	20°34'34	13°22'22	17°26'26	10°58'58	10°14'14	3°38'38	29°57'57	T 16
W17	7 48 33	27°33'53	3°12'40	22°21'21	15°50'50	18°34'34	8°23'23	29°24'24	20°37'37	13°21'21	17°27'27	10°56'56	10°10'10	3°44'44	29°56'56	W17
T 18	7 52 29	28°34'58	16°7'7	23°58'58	17°5'5	18°55'55	8°16'16	29°29'29	20°40'40	13°19'19	17°27'27	10°55'55	10°7'7	3°51'51	29°55'55	T 18
F 19	7 56 26	29°36'03	28°52'52	25°36'36	18°20'20	19°16'16	8°9'9	29°33'33	20°43'43	13°17'17	17°28'28	10°D55	10°4'4	3°58'58	29°53'53	F 19
S 20	8 0 22	0°37'08	11°11'59	27°14'14	19°36'36	19°37'37	8°2'2	29°38'38	20°47'47	13°16'16	17°28'28	10°55'55	10°1'1	4°4'4	29°52'52	S 20
S 21	8 4 19	1°38'12	25°31'31	28°53'53	20°51'51	19°59'59	7°55'55	29°43'43	20°50'50	13°14'14	17°29'29	10°56'56	9°58'58	4°11'11	29°51'51	S 21
M22	8 8 15	2°39'16	9°12'29	0°32'32	22°6'6	20°21'21	7°48'48	29°48'48	20°53'53	13°13'13	17°29'29	10°58'58	9°55'55	4°18'18	29°50'50	M22
T 23	8 12 12	3°40'20	23°53'53	2°13'13	23°22'22	20°44'44	7°42'42	29°54'54	20°57'57	13°11'11	17°30'30	10°59'59	9°51'51	4°24'24	29°49'49	T 23
W24	8 16 9	4°41'23	8°31'31	3°53'53	24°37'37	21°7'7	7°35'35	29°59'59	21°0'0	13°9'9	17°30'30	11°R 0	9°48'48	4°31'31	29°48'48	W24
T 25	8 20 5	5°42'26	23°46'46	5°34'34	25°52'52	21°30'30	7°29'29	0°14'14	21°4'4	13°8'8	17°31'31	10°59'59	9°45'45	4°38'38	29°47'47	T 25
F 26	8 24 2	6°43'28	9°1'1	7°16'16	27°8'8	21°54'54	7°23'23	0°10'10	21°7'7	13°6'6	17°31'31	10°57'57	9°42'42	4°44'44	29°46'46	F 26
S 27	8 27 58	7°44'29	24°16'16	8°59'59	28°23'23	22°17'17	7°17'17	0°15'15	21°10'10	13°4'4	17°32'32	10°54'54	9°39'39	4°51'51	29°46'46	S 27
S 28	8 31 55	8°45'29	9°11'19	10°42'42	29°38'38	22°42'42	7°11'11	0°21'21	21°14'14	13°2'2	17°32'32	10°50'50	9°36'36	4°58'58	29°45'45	S 28
M29	8 35 51	9°46'28	24°3'3	12°26'26	0°54'54	23°6'6	7°5'5	0°26'26	21°17'17	13°1'1	17°33'33	10°46'46	9°32'32	5°4'4	29°45'45	M29
T 30	8 39 48	10°47'26	8°12'21	14°10'10	2°9'9	23°31'31	6°59'59	0°32'32	21°21'21	12°59'59	17°34'34	10°42'42	9°29'29	5°11'11	29°44'44	T 30
W31	8 43 44	11°48'23	22°10'10	15°55'55	3°24'24	23°56'56	6°54'54	0°13'13	21°24'24	12°57'57	17°34'34	10°39'39	9°26'26	5°17'17	29°44'44	W31

Delta T = 86.68 sec

FEBRUARY 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 47 41	12°49'18	5°31	17°40	4°40	24°21	6°R48	0°Y43	21°27	12°R56	17°Y35	10°R38	9°23	5°Q24	29°R43	T 1
F 2	8 51 38	13°50'12	18°27	19°26	5°55	24°47	6°B43	0°49	21°31	12°Q54	17°36	10°D37	9°20	5°31	29°B43	F 2
S 3	8 55 34	14°51'05	1°II 0	21°12	7°10	25°13	6°38	0°55	21°34	12°52	17°37	10°339	9°16	5°37	29°43	S 3
S 4	8 59 31	15°51'57	13°15	22°59	8°25	25°39	6°33	1° 1	21°38	12°51	17°37	10°40	9°13	5°44	29°43	S 4
M 5	9 3 27	16°52'47	25°18	24°46	9°41	26° 5	6°29	1° 7	21°41	12°49	17°38	10°42	9°10	5°51	29°42	M 5
T 6	9 7 24	17°53'36	7°II 1	26°33	10°56	26°32	6°24	1°13	21°45	12°47	17°39	10°R43	9° 7	5°57	29°D42	T 6
W 7	9 11 20	18°54'23	19° 0	28°20	12°11	26°58	6°20	1°19	21°48	12°46	17°40	10°43	9° 4	6° 4	29°42	W 7
T 8	9 15 17	19°55'09	0°Q48	0°K 8	13°26	27°25	6°16	1°26	21°52	12°44	17°41	10°40	9° 1	6°11	29°43	T 8
F 9	9 19 14	20°55'54	12°36	1°54	14°42	27°53	6°12	1°32	21°55	12°42	17°41	10°36	8°57	6°17	29°43	F 9
S 10	9 23 10	21°56'37	24°28	3°41	15°57	28°20	6° 8	1°38	21°59	12°41	17°42	10°30	8°54	6°24	29°43	S 10
S 11	9 27 7	22°57'19	6°mp25	5°27	17°12	28°48	6° 5	1°45	22° 2	12°39	17°43	10°23	8°51	6°31	29°43	S 11
M12	9 31 3	23°58'00	18°29	7°12	18°27	29°16	6° 1	1°51	22° 6	12°37	17°44	10°14	8°48	6°37	29°44	M12
T 13	9 35 0	24°58'39	0°Q41	8°55	19°43	29°44	5°58	1°57	22° 9	12°36	17°45	10° 5	8°45	6°44	29°44	T 13
W14	9 38 56	25°59'18	13° 2	10°37	20°58	0°II12	5°55	2° 4	22°13	12°34	17°46	9°58	8°42	6°51	29°45	W14
T 15	9 42 53	26°59'55	25°35	12°16	22°13	0°40	5°52	2°11	22°16	12°32	17°47	9°51	8°38	6°57	29°45	T 15
F 16	9 46 49	28° 0'31	8°m22	13°53	23°28	1° 9	5°50	2°17	22°20	12°31	17°48	9°47	8°35	7° 4	29°46	F 16
S 17	9 50 46	29° 1'06	21°26	15°27	24°43	1°38	5°47	2°24	22°23	12°29	17°49	9°45	8°32	7°11	29°47	S 17
S 18	9 54 42	0°K 1'39	4°x49	16°57	25°58	2° 7	5°45	2°30	22°27	12°28	17°50	9°D45	8°29	7°17	29°47	S 18
M19	9 58 39	1° 2'12	18°33	18°23	27°14	2°36	5°43	2°37	22°30	12°26	17°51	9°46	8°26	7°24	29°48	M19
T 20	10 2 36	2° 2'43	2°341	19°43	28°29	3° 5	5°41	2°44	22°33	12°24	17°52	9°R47	8°22	7°31	29°49	T 20
W21	10 6 32	3° 3'13	17°11	20°58	29°44	3°35	5°39	2°51	22°37	12°23	17°53	9°47	8°19	7°37	29°50	W21
T 22	10 10 29	4° 3'42	2°≈ 1	22° 7	0°K59	4° 5	5°38	2°58	22°40	12°21	17°54	9°45	8°16	7°44	29°51	T 22
F 23	10 14 25	5° 4'09	17° 4	23° 8	2°14	4°34	5°37	3° 5	22°44	12°20	17°55	9°40	8°13	7°51	29°52	F 23
S 24	10 18 22	6° 4'35	2°K13	24° 2	3°29	5° 4	5°36	3°12	22°47	12°18	17°56	9°33	8°10	7°57	29°54	S 24
S 25	10 22 18	7° 4'58	17°17	24°48	4°44	5°35	5°35	3°18	22°51	12°17	17°57	9°25	8° 7	8° 4	29°55	S 25
M26	10 26 15	8° 5'21	2°Y 7	25°25	5°59	6° 5	5°34	3°25	22°54	12°15	17°59	9°15	8° 3	8°11	29°56	M26
T 27	10 30 11	9° 5'41	16°34	25°53	7°14	6°35	5°34	3°33	22°57	12°14	18° 0	9° 6	8° 0	8°17	29°58	T 27
W28	10 34 8	10°K 5'59	0°B33	26°K11	8°K29	7°II 6	5°B34	3°Y40	23°≈ 1	12°Q12	18°Y 1	8°358	7°357	8°Q24	29°B59	W28

ASTRODIENST EPHEMERIS for the year 2085

geocentric

MARCH 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 38 5	11°16'16"	14°18'2"	26°R20	9°14'44"	7°11'37"	5°D34	3°14'47"	23°11'11"	12°R11	18°14'2"	8°R52	7°18'54"	8°12'31"	0°11'1"	T 1
F 2	10 42 1	12° 6'31"	27° 3'	26°19'	10°59'	8° 8'	5°34'	3°54'	23° 7'	12° 9'	18° 3'	8°349	7°51'	8°37'	0° 2'	F 2
S 3	10 45 58	13° 6'43"	9°11'40"	26° 8'	12°14'	8°38'	5°34'	4° 1'	23°11'	12° 8'	18° 4'	8°D48	7°48'	8°44'	0° 4'	S 3
S 4	10 49 54	14° 6'54"	21°56'	25°48'	13°29'	9°10'	5°35'	4° 8'	23°14'	12° 7'	18° 6'	8°48'	7°44'	8°51'	0° 6'	S 4
M 5	10 53 51	15° 7'02"	3°57'	25°20'	14°44'	9°41'	5°35'	4°15'	23°17'	12° 5'	18° 7'	8°R49	7°41'	8°57'	0° 7'	M 5
T 6	10 57 47	16° 7'08"	15°49'	24°44'	15°59'	10°12'	5°36'	4°23'	23°21'	12° 4'	18° 8'	8°49'	7°38'	9° 4'	0° 9'	T 6
W 7	11 1 44	17° 7'13"	27°36'	24° 1'	17°14'	10°44'	5°38'	4°30'	23°24'	12° 3'	18° 9'	8°47'	7°35'	9°11'	0°11'	W 7
T 8	11 5 40	18° 7'15"	9°12'23"	23°12'	18°29'	11°15'	5°39'	4°37'	23°27'	12° 1'	18°11'	8°42'	7°32'	9°17'	0°13'	T 8
F 9	11 9 37	19° 7'15"	21°14'	22°18'	19°44'	11°47'	5°40'	4°44'	23°30'	12° 0'	18°12'	8°35'	7°28'	9°24'	0°15'	F 9
S 10	11 13 34	20° 7'13"	3°11'12"	21°21'	20°59'	12°19'	5°42'	4°52'	23°34'	11°59'	18°13'	8°26'	7°25'	9°31'	0°17'	S 10
S 11	11 17 30	21° 7'09"	15°18'	20°22'	22°14'	12°51'	5°44'	4°59'	23°37'	11°57'	18°14'	8°14'	7°22'	9°37'	0°19'	S 11
M12	11 21 27	22° 7'03"	27°34'	19°23'	23°29'	13°23'	5°46'	5° 7'	23°40'	11°56'	18°16'	8° 0'	7°19'	9°44'	0°22'	M12
T 13	11 25 23	23° 6'55"	10°11'0"	18°24'	24°43'	13°55'	5°49'	5°14'	23°43'	11°55'	18°17'	7°47'	7°16'	9°51'	0°24'	T 13
W14	11 29 20	24° 6'45"	22°37'	17°27'	25°58'	14°27'	5°51'	5°21'	23°46'	11°54'	18°18'	7°35'	7°13'	9°57'	0°26'	W14
T 15	11 33 16	25° 6'34"	5°11'25"	16°33'	27°13'	14°59'	5°54'	5°29'	23°49'	11°53'	18°20'	7°24'	7° 9'	10° 4'	0°28'	T 15
F 16	11 37 13	26° 6'21"	18°24'	15°44'	28°28'	15°32'	5°57'	5°36'	23°52'	11°52'	18°21'	7°17'	7° 6'	10°11'	0°31'	F 16
S 17	11 41 9	27° 6'06"	1°17'36"	14°59'	29°43'	16° 4'	6° 0'	5°44'	23°55'	11°51'	18°22'	7°12'	7° 3'	10°17'	0°33'	S 17
S 18	11 45 6	28° 5'50"	15° 1'	14°19'	0°14'57"	16°37'	6° 3'	5°51'	23°58'	11°49'	18°24'	7°10'	7° 0'	10°24'	0°36'	S 18
M19	11 49 3	29° 5'31"	28°41'	13°45'	2°12'	17° 9'	6° 6'	5°58'	24° 1'	11°48'	18°25'	7° 9'	6°57'	10°31'	0°39'	M19
T 20	11 52 59	0°14'52"	12°38'	13°17'	3°27'	17°42'	6°10'	6° 6'	24° 4'	11°47'	18°26'	7° 9'	6°53'	10°37'	0°41'	T 20
W21	11 56 56	1° 4'50"	26°51'	12°56'	4°41'	18°15'	6°14'	6°13'	24° 7'	11°46'	18°28'	7° 9'	6°50'	10°44'	0°44'	W21
T 22	12 0 52	2° 4'27"	11°20'	12°40'	5°56'	18°48'	6°18'	6°21'	24°10'	11°45'	18°29'	7° 6'	6°47'	10°51'	0°47'	T 22
F 23	12 4 49	3° 4'02"	26° 1'	12°31'	7°11'	19°21'	6°22'	6°28'	24°13'	11°45'	18°31'	7° 0'	6°44'	10°57'	0°49'	F 23
S 24	12 8 45	4° 3'35"	10°14'48"	12°D28	8°25'	19°54'	6°26'	6°36'	24°16'	11°44'	18°32'	6°51'	6°41'	11° 4'	0°52'	S 24
S 25	12 12 42	5° 3'06"	25°35'	12°31'	9°40'	20°27'	6°31'	6°43'	24°19'	11°43'	18°33'	6°40'	6°38'	11°11'	0°55'	S 25
M26	12 16 38	6° 2'35"	10°14'12"	12°39'	10°55'	21° 0'	6°35'	6°51'	24°22'	11°42'	18°35'	6°28'	6°34'	11°17'	0°58'	M26
T 27	12 20 35	7° 2'02"	24°32'	12°52'	12° 9'	21°33'	6°40'	6°58'	24°25'	11°41'	18°36'	6°16'	6°31'	11°24'	1° 1'	T 27
W28	12 24 31	8° 1'27"	8°29'	13°11'	13°24'	22° 7'	6°45'	7° 6'	24°27'	11°40'	18°38'	6° 6'	6°28'	11°31'	1° 4'	W28
T 29	12 28 28	9° 0'50"	22° 0'	13°35'	14°38'	22°40'	6°50'	7°13'	24°30'	11°39'	18°39'	5°58'	6°25'	11°37'	1° 7'	T 29
F 30	12 32 25	10° 0'11"	5°11'4"	14° 3'	15°53'	23°14'	6°55'	7°21'	24°33'	11°39'	18°40'	5°53'	6°22'	11°44'	1°10'	F 30
S 31	12 36 21	10°14'59"29"	17°11'44"	14°14'36"	17°14'7"	23°11'47"	7°21'1"	7°14'28"	24°33'55"	11°38'38"	18°14'42"	5°53'50"	6°19'19"	11°45'51"	1°11'14"	S 31

Delta T = 86.75 sec

APRIL 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 40 18	11°15'58"45"	0°52'3"	15°11'13"	18°14'22"	24°11'21"	7°52'7"	7°14'36"	24°38'38"	11°R37	18°14'43"	5°R49	6°15'15"	11°12'57"	1°11'17"	S 1
M 2	12 44 14	12°57'59"	12° 7'	15°54'	19°36'	24°55'	7°12'	7°43'	24°41'	11°13'37"	18°45'	5°349	6°12'	12° 4'	1°20'	M 2
T 3	12 48 11	13°57'11"	24° 0'	16°38'	20°51'	25°28'	7°18'	7°51'	24°43'	11°13'36"	18°46'	5°49'	6° 9'	12°11'	1°24'	T 3
W 4	12 52 7	14°56'20"	5°12'49"	17°26'	22° 5'	26° 2'	7°24'	7°58'	24°46'	11°13'36"	18°47'	5°47'	6° 6'	12°17'	1°27'	W 4
T 5	12 56 4	15°55'27"	17°38'	18°18'	23°20'	26°36'	7°31'	8° 6'	24°48'	11°13'35"	18°49'	5°43'	6° 3'	12°24'	1°30'	T 5
F 6	13 0 0	16°54'31"	29°32'	19°12'	24°34'	27°10'	7°37'	8°13'	24°51'	11°13'34"	18°50'	5°37'	5°59'	12°31'	1°34'	F 6
S 7	13 3 57	17°53'34"	11°11'35"	20° 9'	25°48'	27°44'	7°44'	8°21'	24°53'	11°13'34"	18°52'	5°28'	5°56'	12°37'	1°37'	S 7
S 8	13 7 54	18°52'34"	23°50'	21°10'	27° 3'	28°18'	7°50'	8°28'	24°55'	11°13'34"	18°53'	5°16'	5°53'	12°44'	1°41'	S 8
M 9	13 11 50	19°51'32"	6°11'18"	22°13'	28°17'	28°52'	7°57'	8°36'	24°58'	11°13'33"	18°55'	5° 4'	5°50'	12°51'	1°44'	M 9
T 10	13 15 47	20°50'28"	19° 1'	23°18'	29°31'	29°26'	8° 4'	8°43'	25° 0'	11°13'33"	18°56'	4°51'	5°47'	12°57'	1°48'	T 10
W11	13 19 43	21°49'22"	1°11'57"	24°26'	0°45'	0°50'	8°11'	8°50'	25° 2'	11°13'32"	18°57'	4°39'	5°44'	13° 4'	1°52'	W11
T 12	13 23 40	22°48'14"	15° 5'	25°36'	2° 0'	0°35'	8°19'	8°58'	25° 5'	11°13'32"	18°59'	4°29'	5°40'	13°11'	1°55'	T 12
F 13	13 27 36	23°47'04"	28°26'	26°49'	3°14'	1° 9'	8°26'	9° 5'	25° 7'	11°13'32"	19° 0'	4°22'	5°37'	13°17'	1°59'	F 13
S 14	13 31 33	24°45'52"	11°17'56"	28° 4'	4°28'	1°43'	8°34'	9°12'	25° 9'	11°13'31"	19° 2'	4°17'	5°34'	13°24'	2° 3'	S 14
S 15	13 35 29	25°44'39"	25°36'	29°21'	5°42'	2°18'	8°41'	9°20'	25°11'	11°13'31"	19° 3'	4°15'	5°31'	13°31'	2° 7'	S 15
M16	13 39 26	26°43'24"	9°23'25"	0°14'40"	6°56'	2°52'	8°49'	9°27'	25°13'	11°13'31"	19° 5'	4°D15	5°28'	13°37'	2°10'	M16
T 17	13 43 23	27°42'07"	23°23'	2° 1'	8°10'	3°27'	8°57'	9°34'	25°15'	11°13'31"	19° 6'	4°R16	5°25'	13°44'	2°14'	T 17
W18	13 47 19	28°40'49"	7°22'29"	3°23'	9°25'	4° 1'	9° 5'	9°41'	25°17'	11°13'31"	19° 7'	4°15'	5°21'	13°51'	2°18'	W18
T 19	13 51 16	29°39'29"	21°43'	4°48'	10°39'	4°36'	9°13'	9°49'	25°19'	11°13'31"	19° 9'	4°13'	5°18'	13°58'	2°22'	T 19
F 20	13 55 12	0°13'38"07"	6°11'3"	6°15'	11°53'	5°11'	9°22'	9°56'	25°21'	11°13'31"	19°10'	4° 9'	5°15'	14° 4'	2°26'	F 20
S 21	13 59 9	1°36'43"	20°25'	7°43'	13° 7'	5°45'	9°30'	10° 3'	25°23'	11°D31	19°12'	4° 2'	5°12'	14°11'	2°30'	S 21
S 22	14 3 5	2°35'18"	4°14'45"	9°14'	14°21'	6°20'	9°39'	10°10'	25°25'	11°13'31"	19°13'	3°54'	5° 9'	14°18'	2°34'	S 22
M23	14 7 2	3°33'51"	18°57'	10°46'	15°35'	6°55'	9°48'	10°17'	25°27'	11°13'31"	19°14'	3°44'	5° 5'	14°24'	2°38'	M23
T 24	14 10 58	4°32'23"	2°18'56"	12°19'	16°49'	7°29'	9°56'	10°24'	25°28'	11°13'31"	19°16'	3°34'	5° 2'	14°31'	2°42'	T 24
W25	14 14 55	5°30'52"	16°37'	13°55'	18° 3'	8° 4'	10° 5'	10°31'	25°30'	11°13'31"	19°17'	3°26'	4°59'	14°38'	2°46'	W25
T 26	14 18 52	6°29'20"	29°57'	15°32'	19°17'	8°39'	10°14'	10°39'	25°32'	11°13'31"	19°19'	3°19'	4°56'	14°44'	2°50'	T 26
F 27	14 22 48	7°27'46"	12°11'56"	17°11'	20°31'	9°14'	10°24'	10°46'	25°33'	11°13'31"	19°20'	3°15'	4°53'	14°51'	2°55'	F 27
S 28	14 26 45	8°26'09"	25°34'	18°52'	21°44'	9°49'	10°33'	10°52'	25°35'	11°13'31"	19°21'	3°13'	4°50'	14°58'	2°59'	S 28
S 29	14 30 41	9°24'31"	7°52'53"	20°35'	22°58'	10°24'	10°42'	10°59'	25°36'	11°13'32"	19°23'	3°D12	4°46'	15° 4'	3° 3'	S 29
M30	14 34 38	10°22'51"	19°52'58"	22°14'19"	24°18'12"	10°52'59"	10°52'52"	11°14'6"	25°38'38"	11°13'32"	19°24'	3°13'13"	4°34'43"	15°11'11"	3°11'7"	M30

Delta T = 86.78 sec

ASTRODIENST EPHEMERIS for the year 2085

geocentric

MAY 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 38 34	11♈21'08	1♈53	24♍5	25♈26	11♈34	11♈1	11♍13	25♈39	11♈32	19♍25	3♈14	4♈40	15♈18	3♈11	T 1
W 2	14 42 31	12°19'24	13°44	25°53	26°40	12° 9	11°11	11°20	25°41	11°32	19°27	3°R15	4°37	15°24	3°16	W 2
T 3	14 46 27	13°17'37	25°35	27°43	27°53	12°45	11°21	11°27	25°42	11°33	19°28	3°14	4°34	15°31	3°20	T 3
F 4	14 50 24	14°15'49	7♍32	29°34	29° 7	13°20	11°31	11°33	25°43	11°33	19°29	3°11	4°30	15°38	3°24	F 4
S 5	14 54 21	15°13'58	19°38	1♈28	0♈21	13°55	11°41	11°40	25°45	11°34	19°31	3° 6	4°27	15°44	3°29	S 5
S 6	14 58 17	16°12'06	1♈59	3°23	1°35	14°30	11°51	11°47	25°46	11°34	19°32	3° 0	4°24	15°51	3°33	S 6
M 7	15 2 14	17°10'11	14°36	5°19	2°48	15° 6	12° 1	11°53	25°47	11°35	19°33	2°52	4°21	15°58	3°37	M 7
T 8	15 6 10	18° 8'15	27°31	7°18	4° 2	15°41	12°11	12° 0	25°48	11°35	19°35	2°44	4°18	16° 4	3°42	T 8
W 9	15 10 7	19° 6'17	10♍44	9°18	5°15	16°16	12°22	12° 7	25°49	11°36	19°36	2°37	4°15	16°11	3°46	W 9
T 10	15 14 3	20° 4'18	24°14	11°20	6°29	16°52	12°32	12°13	25°50	11°36	19°37	2°31	4°11	16°18	3°50	T 10
F 11	15 18 0	21° 2'17	7♍58	13°24	7°43	17°27	12°43	12°19	25°51	11°37	19°38	2°27	4° 8	16°24	3°55	F 11
S 12	15 21 56	22° 0'14	21°54	15°29	8°56	18° 2	12°54	12°26	25°52	11°38	19°40	2°25	4° 5	16°31	3°59	S 12
S 13	15 25 53	22°58'11	5♈58	17°35	10°10	18°38	13° 4	12°32	25°53	11°38	19°41	2°D24	4° 2	16°38	4° 4	S 13
M14	15 29 50	23°56'05	20° 7	19°43	11°23	19°13	13°15	12°38	25°54	11°39	19°42	2°25	3°59	16°44	4° 8	M14
T 15	15 33 46	24°53'59	4♈19	21°52	12°36	19°49	13°26	12°45	25°54	11°40	19°43	2°26	3°56	16°51	4°13	T 15
W16	15 37 43	25°51'51	18°31	24° 1	13°50	20°24	13°37	12°51	25°55	11°41	19°45	2°28	3°52	16°58	4°17	W16
T 17	15 41 39	26°49'42	2♈42	26°12	15° 3	21° 0	13°48	12°57	25°56	11°41	19°46	2°R28	3°49	17° 5	4°22	T 17
F 18	15 45 36	27°47'32	16°50	28°23	16°17	21°36	13°59	13° 3	25°56	11°42	19°47	2°26	3°46	17°11	4°26	F 18
S 19	15 49 32	28°45'21	0♍52	0♈34	17°30	22°11	14°10	13° 9	25°57	11°43	19°48	2°23	3°43	17°18	4°31	S 19
S 20	15 53 29	29°43'09	14°46	2°46	18°43	22°47	14°22	13°15	25°58	11°44	19°49	2°19	3°40	17°25	4°35	S 20
M21	15 57 25	0♈40'55	28°31	4°57	19°57	23°23	14°33	13°21	25°58	11°45	19°50	2°14	3°36	17°31	4°40	M21
T 22	16 1 22	1°38'41	12♈3	7° 7	21°10	23°58	14°45	13°27	25°58	11°46	19°52	2°10	3°33	17°38	4°44	T 22
W23	16 5 19	2°36'25	25°20	9°17	22°23	24°34	14°56	13°33	25°59	11°47	19°53	2° 5	3°30	17°45	4°49	W23
T 24	16 9 15	3°34'08	8♈21	11°26	23°37	25°10	15° 8	13°38	25°59	11°48	19°54	2° 2	3°27	17°51	4°53	T 24
F 25	16 13 12	4°31'49	21° 6	13°33	24°50	25°46	15°19	13°44	25°59	11°49	19°55	2° 0	3°24	17°58	4°58	F 25
S 26	16 17 8	5°29'30	3♈35	15°39	26° 3	26°22	15°31	13°50	26° 0	11°50	19°56	2°D 0	3°21	18° 5	5° 2	S 26
S 27	16 21 5	6°27'09	15°49	17°42	27°16	26°58	15°43	13°55	26° 0	11°51	19°57	2° 1	3°17	18°11	5° 7	S 27
M28	16 25 1	7°24'46	27°52	19°44	28°29	27°33	15°55	14° 1	26° 0	11°52	19°58	2° 2	3°14	18°18	5°11	M28
T 29	16 28 58	8°22'22	9♈47	21°44	29°42	28° 9	16° 7	14° 6	26° 0	11°54	19°59	2° 4	3°11	18°25	5°16	T 29
W30	16 32 54	9°19'57	21°38	23°41	0♈56	28°45	16°19	14°11	26°R 0	11°55	20° 0	2° 5	3° 8	18°31	5°20	W30
T 31	16 36 51	10♈17'31	3♈30	25♈36	2♈ 9	29°21	16°31	14°V17	26°R 0	11°56	20°V 1	2° 6	3° 5	18°38	5♈25	T 31

Delta T = 86.82 sec

JUNE 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 40 48	11♈15'02	15♈27	27♈29	3♈22	29°57	16°43	14°V22	26°R 0	11°57	20°V 2	2°R 6	3♈2	18°45	5♈29	F 1
S 2	16 44 44	12°12'33	27°34	29°19	4°35	0♈33	16°55	14°27	26°R 0	11°59	20° 3	2° 5	2°58	18°51	5°34	S 2
S 3	16 48 41	13°10'02	9♈56	19° 6	5°48	1° 9	17° 7	14°32	26° 0	12° 0	20° 4	2° 4	2°55	18°58	5°38	S 3
M 4	16 52 37	14° 7'31	22°36	2°50	7° 1	1°45	17°19	14°37	25°59	12° 1	20° 5	2° 2	2°52	19° 5	5°43	M 4
T 5	16 56 34	15° 4'58	5♈37	4°32	8°14	2°22	17°32	14°42	25°59	12° 3	20° 6	1°59	2°49	19°12	5°47	T 5
W 6	17 0 30	16° 2'23	19° 0	6°11	9°26	2°58	17°44	14°47	25°59	12° 4	20° 7	1°57	2°46	19°18	5°52	W 6
T 7	17 4 27	16°59'48	2♈45	7°47	10°39	3°34	17°57	14°52	25°59	12° 5	20° 8	1°55	2°42	19°25	5°56	T 7
F 8	17 8 23	17°57'12	16°49	9°21	11°52	4°10	18° 9	14°57	25°58	12° 7	20° 8	1°54	2°39	19°32	6° 1	F 8
S 9	17 12 20	18°54'35	1♈9	10°52	13° 5	4°46	18°21	15° 1	25°58	12° 8	20° 9	1°D54	2°36	19°38	6° 5	S 9
S 10	17 16 17	19°51'58	15°40	12°19	14°18	5°22	18°34	15° 6	25°57	12°10	20°10	1°54	2°33	19°45	6°10	S 10
M11	17 20 13	20°49'19	0♈15	13°44	15°30	5°59	18°47	15°10	25°57	12°11	20°11	1°55	2°30	19°52	6°14	M11
T 12	17 24 10	21°46'40	14°50	15° 6	16°43	6°35	18°59	15°15	25°56	12°13	20°12	1°56	2°27	19°58	6°19	T 12
W13	17 28 6	22°44'01	29°18	16°25	17°56	7°11	19°12	15°19	25°55	12°14	20°12	1°56	2°20	20° 5	6°23	W13
T 14	17 32 3	23°41'21	13♈37	17°41	19° 8	7°47	19°25	15°23	25°55	12°16	20°13	1°57	2°20	20°12	6°27	T 14
F 15	17 35 59	24°38'40	27°44	18°54	20°21	8°24	19°37	15°27	25°54	12°18	20°14	1°R57	2°17	20°18	6°32	F 15
S 16	17 39 56	25°36'00	11°V36	20° 4	21°34	9° 0	19°50	15°32	25°53	12°19	20°15	1°57	2°14	20°25	6°36	S 16
S 17	17 43 52	26°33'19	25°14	21°10	22°46	9°36	20° 3	15°36	25°52	12°21	20°15	1°56	2°11	20°32	6°40	S 17
M18	17 47 49	27°30'37	8♈36	22°14	23°59	10°13	20°16	15°39	25°52	12°23	20°16	1°56	2° 8	20°38	6°45	M18
T 19	17 51 46	28°27'56	21°44	23°14	25°11	10°49	20°29	15°43	25°51	12°24	20°17	1°55	2° 4	20°45	6°49	T 19
W20	17 55 42	29°25'14	4♈38	24°10	26°24	11°26	20°42	15°47	25°50	12°26	20°17	1°55	2° 1	20°52	6°53	W20
T 21	17 59 39	0♈22'31	17°18	25° 4	27°36	12° 2	20°55	15°51	25°49	12°28	20°18	1°55	1°58	20°59	6°58	T 21
F 22	18 3 35	1°19'49	29°45	25°53	28°49	12°39	21° 8	15°54	25°48	12°29	20°19	1°D55	1°55	21° 5	7° 2	F 22
S 23	18 7 32	2°17'05	12♈1	26°39	0♈1	13°15	21°21	15°58	25°47	12°31	20°19	1°R55	1°52	21°12	7° 6	S 23
S 24	18 11 28	3°14'22	24° 7	27°21	1°13	13°52	21°34	16° 1	25°45	12°33	20°20	1°55	1°48	21°19	7°10	S 24
M25	18 15 25	4°11'38	6♈5	27°59	2°26	14°28	21°47	16° 5	25°44	12°35	20°20	1°55	1°45	21°25	7°15	M25
T 26	18 19 22	5° 8'53	17°58	28°33	3°38	15° 5	22° 0	16° 8	25°43	12°37	20°21	1°54	1°42	21°32	7°19	T 26
W27	18 23 18	6° 6'08	29°48	29° 3	4°50	15°42	22°13	16°11	25°42	12°39	20°21	1°54	1°39	21°39	7°23	W27
T 28	18 27 15	7° 3'22	11♈40	29°29	6° 2	16°18	22°26	16°14	25°41	12°40	20°22	1°53	1°36	21°45	7°27	T 28
F 29	18 31 11	8° 0'36	23°36	29°51	7°15	16°55	22°40	16°17	25°39	12°42	20°22	1°53	1°33	21°52	7°31	F 29
S 30	18 35 8	8°57'49	5♈42	0♈7	8♈27	17°32	22°53	16°V20	25°R38	12°44	20°V23	1°D53	1° 29	21°59	7♈35	S 30

Delta T = 86.85 sec

ASTRODIENST EPHEMERIS for the year 2085
geocentric

JULY 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 39 4	9 ⁵⁵ 02	18 ²	0 ²⁰ 20	9 ²³ 9	18 ² 8	23 ²³ 6	16 ²³ 23	25 ²⁵ R36	12 ² 46	20 ²³ 23	1 ²³ 53	1 ²³ 26	22 ² 5	7 ² 39	S 1
M 2	18 43 1	10 ⁵² 15	0 ² 40	0 ²⁸	10 ⁵¹	18 ² 45	23 ²³ 19	16 ²⁵	25 ²⁵ 35	12 ² 48	20 ²³	1 ²³ 53	1 ²³ 26	22 ² 12	7 ² 43	M 2
T 3	18 46 57	11 ⁴⁹ 27	13 ³⁹	0 ² R31	12 ² 3	19 ²²	23 ²³ 33	16 ²⁸	25 ²⁵ 33	12 ² 50	20 ²⁴	1 ²³ 54	1 ²³ 20	22 ² 19	7 ² 47	T 3
W 4	18 50 54	12 ⁴⁶ 39	27 ² 3	0 ²⁹	13 ² 15	19 ²⁵ 9	23 ²³ 46	16 ³⁰	25 ²⁵ 32	12 ² 52	20 ²⁴	1 ²³ 55	1 ²³ 17	22 ² 26	7 ² 51	W 4
T 5	18 54 51	13 ⁴³ 51	10 ² 53	0 ²³	14 ²⁷	20 ²³ 6	23 ²³ 59	16 ³³	25 ²⁵ 30	12 ² 54	20 ²⁴	1 ²³ 56	1 ²³ 14	22 ² 32	7 ² 55	T 5
F 6	18 58 47	14 ⁴¹ 02	25 ² 7	0 ² 12	15 ²³ 9	21 ² 12	24 ²³ 13	16 ³⁵	25 ²⁵ 29	12 ² 56	20 ²⁵	1 ²³ R56	1 ²³ 10	22 ² 39	7 ² 59	F 6
S 7	19 2 44	15 ³⁸ 14	9 ² 43	29 ²⁵ 57	16 ² 50	21 ² 49	24 ²³ 26	16 ³⁷	25 ²⁵ 27	12 ² 58	20 ²⁵	1 ²³ 56	1 ²³ 7	22 ² 46	8 ² 3	S 7
S 8	19 6 40	16 ³⁵ 25	24 ² 34	29 ²³ 8	18 ² 2	22 ²² 6	24 ²³ 39	16 ⁴⁰	25 ²⁵ 26	13 ² 0	20 ²⁵	1 ²³ 55	1 ²³ 4	22 ² 52	8 ² 7	S 8
M 9	19 10 37	17 ³² 37	9 ² 34	29 ² 14	19 ² 14	23 ² 3	24 ²³ 53	16 ⁴²	25 ²⁵ 24	13 ² 2	20 ²⁶	1 ²³ 54	1 ²³ 1	22 ² 59	8 ² 10	M 9
T 10	19 14 33	18 ²⁹ 48	24 ² 33	28 ² 47	20 ²² 6	23 ²³ 40	25 ² 6	16 ⁴³	25 ²⁵ 22	13 ² 4	20 ²⁶	1 ²³ 52	0 ² 58	23 ² 6	8 ² 14	T 10
W 11	19 18 30	19 ²⁷ 00	9 ² 23	28 ² 17	21 ² 37	24 ² 17	25 ²⁵ 19	16 ⁴⁵	25 ²⁵ 20	13 ² 6	20 ²⁶	1 ²³ 50	0 ² 54	23 ² 12	8 ² 18	W 11
T 12	19 22 26	20 ²⁴ 13	23 ² 57	27 ² 43	22 ²² 49	24 ² 54	25 ²⁵ 33	16 ⁴⁷	25 ²⁵ 19	13 ² 8	20 ²⁶	1 ²³ 48	0 ² 51	23 ² 19	8 ² 21	T 12
F 13	19 26 23	21 ²¹ 25	8 ² 12	27 ² 7	24 ² 1	25 ²⁵ 31	25 ²⁵ 46	16 ⁴⁹	25 ²⁵ 17	13 ² 10	20 ²⁶	1 ²³ 47	0 ² 48	23 ² 26	8 ² 25	F 13
S 14	19 30 20	22 ¹⁸ 39	22 ² 5	26 ²² 9	25 ²⁵ 12	26 ² 8	26 ² 0	16 ⁵⁰	25 ²⁵ 15	13 ² 12	20 ²⁶	1 ²³ D46	0 ² 45	23 ² 32	8 ² 29	S 14
S 15	19 34 16	23 ¹⁵ 53	5 ² 36	25 ²⁵ 50	26 ²² 4	26 ² 45	26 ² 13	16 ⁵²	25 ²⁵ 13	13 ² 15	20 ²⁷	1 ²³ 47	0 ² 42	23 ² 39	8 ² 32	S 15
M 16	19 38 13	24 ¹³ 07	18 ² 46	25 ²⁵ 11	27 ²³ 5	27 ²²	26 ²² 6	16 ⁵³	25 ²⁵ 11	13 ² 17	20 ²⁷	1 ²³ 48	0 ² 39	23 ² 46	8 ² 36	M 16
T 17	19 42 9	25 ¹⁰ 23	1 ² 37	24 ²³ 1	28 ²² 46	27 ²⁵ 9	26 ²² 40	16 ⁵⁴	25 ²⁵ 9	13 ² 19	20 ²⁷	1 ²³ 49	0 ² 35	23 ² 53	8 ² 39	T 17
W 18	19 46 6	26 ⁷ 39	14 ² 13	23 ²⁵ 3	29 ²⁵ 8	28 ²³ 6	26 ²⁵ 3	16 ⁵⁵	25 ²⁵ 7	13 ² 21	20 ²⁷	1 ²³ 51	0 ² 32	23 ² 59	8 ² 43	W 18
T 19	19 50 2	27 ⁴ 55	26 ²³ 5	23 ²⁵ 15	1 ² 9	29 ²³ 13	27 ² 7	16 ⁵⁶	25 ²⁵ 5	13 ² 23	20 ²⁷	1 ²³ R52	0 ² 29	24 ² 6	8 ² 46	T 19
F 20	19 53 59	28 ² 12	8 ² 47	22 ²² 40	2 ²² 0	29 ²⁵ 1	27 ²² 0	16 ⁵⁷	25 ²⁵ 3	13 ² 25	20 ²⁷ R27	1 ²³ 52	0 ² 26	24 ² 13	8 ² 50	F 20
S 21	19 57 55	28 ⁵⁹ 30	20 ²⁵ 1	22 ² 8	3 ²³ 1	0 ² 28	27 ²³ 3	16 ⁵⁸	25 ²⁵ 1	13 ² 27	20 ²⁷	1 ²³ 50	0 ² 23	24 ² 19	8 ² 53	S 21
S 22	20 1 52	29 ⁵⁶ 48	2 ² 49	21 ²³ 9	4 ² 43	1 ² 5	27 ²⁴ 7	16 ⁵⁹	24 ²⁵ 9	13 ² 30	20 ²⁷	1 ²³ 48	0 ² 20	24 ² 26	8 ² 56	S 22
M 23	20 5 49	0 ² 5406	14 ² 42	21 ² 14	5 ² 54	1 ² 42	28 ² 0	16 ⁵⁹	24 ²⁵ 7	13 ² 32	20 ²⁷	1 ²³ 44	0 ² 16	24 ² 33	8 ² 59	M 23
T 24	20 9 45	1 ⁵¹ 25	26 ²³ 3	20 ²⁵ 3	7 ² 5	2 ²² 0	28 ² 14	17 ² 0	24 ²⁵ 5	13 ² 34	20 ²⁷	1 ²³ 39	0 ² 13	24 ² 39	9 ² 3	T 24
W 25	20 13 42	2 ⁴⁸ 44	8 ² 23	20 ²³ 7	8 ² 16	2 ²⁵ 7	28 ²² 7	17 ² 0	24 ²⁵ 3	13 ² 36	20 ²⁷	1 ²³ 33	0 ² 10	24 ² 46	9 ² 6	W 25
T 26	20 17 38	3 ⁴⁶ 04	20 ² 15	20 ²² 6	9 ² 27	3 ² 34	28 ²⁴ 0	17 ² 1	24 ²⁵ 0	13 ² 38	20 ²⁶	1 ²³ 28	0 ² 7	24 ² 53	9 ² 9	T 26
F 27	20 21 35	4 ⁴³ 25	2 ² 12	20 ² D21	10 ² 37	4 ² 12	28 ²⁵ 4	17 ² 1	24 ²⁴ 8	13 ² 40	20 ²⁶	1 ²³ 23	0 ² 4	25 ² 0	9 ² 12	F 27
S 28	20 25 31	5 ⁴⁰ 45	14 ² 18	20 ²² 2	11 ² 48	4 ² 49	29 ² 7	17 ² R 1	24 ²⁴ 6	13 ² 43	20 ²⁶	1 ²³ 20	0 ² 0	25 ² 6	9 ² 15	S 28
S 29	20 29 28	6 ³⁸ 07	26 ²³ 5	20 ²² 9	12 ²⁵ 9	5 ² 27	29 ²² 0	17 ² 1	24 ²⁴ 4	13 ² 45	20 ²⁶	1 ²³ 18	29 ² 57	25 ² 13	9 ² 18	S 29
M 30	20 33 24	7 ³⁵ 28	9 ² 18	20 ²⁴ 1	14 ² 10	6 ² 4	29 ²³ 4	17 ² 1	24 ²⁴ 2	13 ² 47	20 ²⁶	1 ²³ D17	29 ² 54	25 ² 20	9 ² 21	M 30
T 31	20 37 21	8 ² 3251	22 ² 18	21 ² 5	15 ² 20	6 ² 42	29 ²⁵ 47	17 ² 1	24 ²⁴ 39	13 ² 49	20 ²⁶	1 ²³ 18	29 ² 51	25 ² 26	9 ² 24	T 31

Delta T = 86.89 sec

AUGUST 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 41 18	9♌30°13	5♊22	21♎25	16♏31	7♏19	0♏0	17♏R 0	24♏R37	13♏52	20♏R25	1♎19	29♎48	25♏33	9♏27	W 1
T 2	20 45 14	10°27'37	19° 7	21°57	17°41	7°57	0°14	17♏° 0	24♎35	13°54	20♏25	1°21	29°45	25°40	9°29	T 2
F 3	20 49 11	11°25'01	3♎19	22°34	18°52	8°34	0°27	16°59	24°32	13°56	20°25	1°R21	29°41	25°46	9°32	F 3
S 4	20 53 7	12°22'26	17°57	23°18	20° 2	9°12	0°40	16°59	24°30	13°58	20°24	1°20	29°38	25°53	9°35	S 4
S 5	20 57 4	13°19'51	2♎57	24° 8	21°12	9°49	0°53	16°58	24°28	14° 0	20°24	1°17	29°35	26° 0	9°37	S 5
M 6	21 1 0	14°17'17	18° 9	25° 4	22°22	10°27	1° 7	16°57	24°25	14° 3	20°24	1°13	29°32	26° 7	9°40	M 6
T 7	21 4 57	15°14'45	3♏25	26° 6	23°32	11° 5	1°20	16°56	24°23	14° 5	20°23	1° 7	29°29	26°13	9°42	T 7
W 8	21 8 53	16°12'13	18°34	27°13	24°42	11°42	1°33	16°55	24°21	14° 7	20°23	1° 0	29°26	26°20	9°45	W 8
T 9	21 12 50	17° 9'42	3♏25	28°27	25°52	12°20	1°46	16°54	24°18	14° 9	20°23	0°54	29°22	26°27	9°47	T 9
F 10	21 16 47	18° 7'13	17°53	29°45	27° 2	12°58	1°59	16°53	24°16	14°12	20°22	0°49	29°19	26°33	9°50	F 10
S 11	21 20 43	19° 4'45	1♎53	1♏9	28°12	13°36	2°12	16°51	24°14	14°14	20°22	0°46	29°16	26°40	9°52	S 11
S 12	21 24 40	20° 2'19	15°26	2°38	29°22	14°13	2°25	16°50	24°11	14°16	20°21	0°D44	29°13	26°47	9°54	S 12
M 13	21 28 36	20°59'54	28°32	4°11	0♎31	14°51	2°38	16°49	24° 9	14°18	20°21	0°44	29°10	26°53	9°56	M 13
T 14	21 32 33	21°57'30	11♏16	5°49	1°41	15°29	2°51	16°47	24° 6	14°20	20°20	0°45	29° 6	27° 0	9°59	T 14
W 15	21 36 29	22°55'08	23°42	7°31	2°51	16° 7	3° 4	16°45	24° 4	14°23	20°20	0°46	29° 3	27° 7	10° 1	W 15
T 16	21 40 26	23°52'48	5♎54	9°16	4° 0	16°45	3°17	16°43	24° 2	14°25	20°19	0°R46	29° 0	27°14	10° 3	T 16
F 17	21 44 22	24°50'29	17°56	11° 5	5° 9	17°23	3°30	16°41	23°59	14°27	20°19	0°45	28°57	27°20	10° 5	F 17
S 18	21 48 19	25°48'11	29°52	12°56	6°19	18° 1	3°43	16°39	23°57	14°29	20°18	0°41	28°54	27°27	10° 6	S 18
S 19	21 52 16	26°45'55	11♏43	14°50	7°28	18°39	3°56	16°37	23°54	14°31	20°17	0°35	28°51	27°34	10° 8	S 19
M 20	21 56 12	27°43'40	23°34	16°45	8°37	19°17	4° 9	16°35	23°52	14°34	20°17	0°26	28°47	27°40	10°10	M 20
T 21	22 0 9	28°41'26	5♏24	18°43	9°46	19°55	4°22	16°33	23°50	14°36	20°16	0°16	28°44	27°47	10°12	T 21
W 22	22 4 5	29°39'13	17°17	20°41	10°55	20°33	4°34	16°31	23°47	14°38	20°16	0° 4	28°41	27°54	10°13	W 22
T 23	22 8 2	0♏37'02	29°14	22°41	12° 3	21°12	4°47	16°28	23°45	14°40	20°15	29♎53	28°38	28° 0	10°15	T 23
F 24	22 11 58	1°34'53	11♎15	24°40	13°12	21°50	5° 0	16°25	23°43	14°42	20°14	29°43	28°35	28° 7	10°17	F 24
S 25	22 15 55	2°32'44	23°25	26°40	14°21	22°28	5°12	16°23	23°40	14°44	20°14	29°35	28°31	28°14	10°18	S 25
S 26	22 19 51	3°30'37	5♏45	28°41	15°29	23° 6	5°25	16°20	23°38	14°47	20°13	29°29	28°28	28°21	10°19	S 26
M 27	22 23 48	4°28'31	18°18	0♏40	16°38	23°44	5°37	16°17	23°35	14°49	20°12	29°25	28°25	28°27	10°21	M 27
T 28	22 27 45	5°26'26	1♎8	2°40	17°46	24°23	5°50	16°14	23°33	14°51	20°11	29°D24	28°22	28°34	10°22	T 28
W 29	22 31 41	6°24'23	14°20	4°38	18°54	25° 1	6° 2	16°11	23°31	14°53	20°11	29°24	28°19	28°41	10°23	W 29
T 30	22 35 38	7°22'21	27°56	6°36	20° 2	25°40	6°14	16° 8	23°29	14°55	20°10	29°R25	28°16	28°47	10°24	T 30
F 31	22 39 34	8♏20'20	11♎58	8♏33	21♎10	26♏18	6♏27	16♏° 5	23♎26	14♏57	20♏° 9	29♎24	28♎12	28♏54	10♏25	F 31

ASTRODIENST EPHEMERIS for the year 2085

geocentric

SEPTEMBER 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 43 31	9 ^h 18'21"	26 ^h 32'	10 ^h 30'	22 ^h 18'	26 ^h 56'	6 ^h 39'	16 ^h 02'	23 ^h 02'	14 ^h 59'	20 ^h 08'	29 ^h 02'	28 ^h 09'	29 ^h 01'	10 ^h 26'	S 1
S 2	22 47 27	10 ^h 16'23"	11 ^h 20'	12 ^h 25'	23 ^h 25'	27 ^h 35'	6 ^h 51'	15 ^h 59'	23 ^h 22'	15 ^h 01'	20 ^h 07'	29 ^h 17'	28 ^h 06'	29 ^h 07'	10 ^h 27'	S 2
M 3	22 51 24	11 ^h 14'26"	26 ^h 29'	14 ^h 18'	24 ^h 33'	28 ^h 13'	7 ^h 03'	15 ^h 55'	23 ^h 19'	15 ^h 03'	20 ^h 06'	29 ^h 09'	28 ^h 03'	29 ^h 14'	10 ^h 28'	M 3
T 4	22 55 20	12 ^h 12'31"	11 ^h 47'	16 ^h 11'	25 ^h 40'	28 ^h 52'	7 ^h 15'	15 ^h 52'	23 ^h 17'	15 ^h 05'	20 ^h 06'	29 ^h 00'	28 ^h 00'	29 ^h 21'	10 ^h 29'	T 4
W 5	22 59 17	13 ^h 10'37"	27 ^h 02'	18 ^h 03'	26 ^h 48'	29 ^h 31'	7 ^h 27'	15 ^h 48'	23 ^h 15'	15 ^h 07'	20 ^h 05'	28 ^h 49'	27 ^h 57'	29 ^h 28'	10 ^h 30'	W 5
T 6	23 03 14	14 ^h 08'46"	12 ^h 02'	19 ^h 53'	27 ^h 55'	0 ^h 09'	7 ^h 39'	15 ^h 45'	23 ^h 13'	15 ^h 09'	20 ^h 04'	28 ^h 39'	27 ^h 53'	29 ^h 34'	10 ^h 31'	T 6
F 7	23 07 10	15 ^h 06'56"	26 ^h 40'	21 ^h 43'	29 ^h 02'	0 ^h 48'	7 ^h 51'	15 ^h 41'	23 ^h 11'	15 ^h 11'	20 ^h 03'	28 ^h 31'	27 ^h 50'	29 ^h 41'	10 ^h 31'	F 7
S 8	23 11 07	16 ^h 05'08"	10 ^h 49'	23 ^h 31'	0 ^h 09'	1 ^h 26'	8 ^h 03'	15 ^h 37'	23 ^h 09'	15 ^h 13'	20 ^h 02'	28 ^h 24'	27 ^h 47'	29 ^h 48'	10 ^h 32'	S 8
S 9	23 15 03	17 ^h 03'22"	24 ^h 28'	25 ^h 18'	1 ^h 15'	2 ^h 05'	8 ^h 15'	15 ^h 34'	23 ^h 06'	15 ^h 15'	20 ^h 01'	28 ^h 20'	27 ^h 44'	29 ^h 54'	10 ^h 32'	S 9
M10	23 19 00	18 ^h 01'38"	7 ^h 38'	27 ^h 04'	2 ^h 22'	2 ^h 44'	8 ^h 26'	15 ^h 30'	23 ^h 04'	15 ^h 17'	20 ^h 00'	28 ^h 19'	27 ^h 41'	0 ^h 09'	10 ^h 33'	M10
T 11	23 22 56	18 ^h 59'56"	20 ^h 23'	28 ^h 48'	3 ^h 28'	3 ^h 23'	8 ^h 38'	15 ^h 26'	23 ^h 02'	15 ^h 19'	19 ^h 59'	28 ^h 01'	27 ^h 37'	0 ^h 08'	10 ^h 33'	T 11
W12	23 26 53	19 ^h 58'17"	2 ^h 47'	0 ^h 32'	4 ^h 34'	4 ^h 01'	8 ^h 50'	15 ^h 22'	23 ^h 00'	15 ^h 21'	19 ^h 58'	28 ^h 01'	27 ^h 34'	0 ^h 15'	10 ^h 33'	W12
T 13	23 30 49	20 ^h 56'39"	14 ^h 55'	2 ^h 14'	5 ^h 41'	4 ^h 40'	9 ^h 01'	15 ^h 18'	22 ^h 58'	15 ^h 23'	19 ^h 57'	28 ^h 17'	27 ^h 31'	0 ^h 21'	10 ^h 33'	T 13
F 14	23 34 46	21 ^h 55'04"	26 ^h 53'	3 ^h 55'	6 ^h 47'	5 ^h 19'	9 ^h 13'	15 ^h 14'	22 ^h 56'	15 ^h 25'	19 ^h 56'	28 ^h 15'	27 ^h 28'	0 ^h 28'	10 ^h 34'	F 14
S 15	23 38 43	22 ^h 53'30"	8 ^h 45'	5 ^h 35'	7 ^h 52'	5 ^h 58'	9 ^h 24'	15 ^h 10'	22 ^h 54'	15 ^h 27'	19 ^h 55'	28 ^h 09'	27 ^h 25'	0 ^h 35'	10 ^h 34'	S 15
S 16	23 42 39	23 ^h 51'59"	20 ^h 34'	7 ^h 14'	8 ^h 58'	6 ^h 37'	9 ^h 35'	15 ^h 05'	22 ^h 52'	15 ^h 28'	19 ^h 54'	28 ^h 01'	27 ^h 22'	0 ^h 41'	10 ^h 34'	S 16
M17	23 46 36	24 ^h 50'29"	2 ^h 24'	8 ^h 52'	10 ^h 03'	7 ^h 16'	9 ^h 46'	15 ^h 01'	22 ^h 50'	15 ^h 30'	19 ^h 53'	27 ^h 50'	27 ^h 18'	0 ^h 48'	10 ^h 34'	M17
T 18	23 50 32	25 ^h 49'02"	14 ^h 18'	10 ^h 29'	11 ^h 09'	7 ^h 55'	9 ^h 58'	14 ^h 57'	22 ^h 48'	15 ^h 32'	19 ^h 52'	27 ^h 37'	27 ^h 15'	0 ^h 55'	10 ^h 34'	T 18
W19	23 54 29	26 ^h 47'36"	26 ^h 16'	12 ^h 05'	12 ^h 14'	8 ^h 34'	10 ^h 09'	14 ^h 53'	22 ^h 46'	15 ^h 34'	19 ^h 51'	27 ^h 23'	27 ^h 12'	1 ^h 01'	10 ^h 33'	W19
T 20	23 58 25	27 ^h 46'12"	8 ^h 42'	13 ^h 40'	13 ^h 19'	9 ^h 13'	10 ^h 20'	14 ^h 48'	22 ^h 45'	15 ^h 36'	19 ^h 50'	27 ^h 09'	27 ^h 09'	1 ^h 08'	10 ^h 33'	T 20
F 21	0 02 22	28 ^h 44'51"	20 ^h 32'	15 ^h 14'	14 ^h 23'	9 ^h 53'	10 ^h 30'	14 ^h 44'	22 ^h 43'	15 ^h 37'	19 ^h 49'	26 ^h 56'	27 ^h 06'	1 ^h 15'	10 ^h 33'	F 21
S 22	0 06 18	29 ^h 43'31"	2 ^h 52'	16 ^h 47'	15 ^h 28'	10 ^h 32'	10 ^h 41'	14 ^h 39'	22 ^h 41'	15 ^h 39'	19 ^h 48'	26 ^h 45'	27 ^h 03'	1 ^h 22'	10 ^h 32'	S 22
S 23	0 10 15	0 ^h 42'13"	15 ^h 21'	18 ^h 19'	16 ^h 32'	11 ^h 11'	10 ^h 52'	14 ^h 35'	22 ^h 39'	15 ^h 41'	19 ^h 47'	26 ^h 37'	26 ^h 59'	1 ^h 28'	10 ^h 32'	S 23
M24	0 14 11	1 ^h 40'56"	28 ^h 01'	19 ^h 50'	17 ^h 36'	11 ^h 50'	11 ^h 03'	14 ^h 30'	22 ^h 38'	15 ^h 42'	19 ^h 46'	26 ^h 32'	26 ^h 56'	1 ^h 35'	10 ^h 31'	M24
T 25	0 18 08	2 ^h 39'42"	10 ^h 45'	21 ^h 20'	18 ^h 40'	12 ^h 30'	11 ^h 13'	14 ^h 26'	22 ^h 36'	15 ^h 44'	19 ^h 45'	26 ^h 30'	26 ^h 53'	1 ^h 42'	10 ^h 31'	T 25
W26	0 22 05	3 ^h 38'29"	24 ^h 07'	22 ^h 48'	19 ^h 44'	13 ^h 09'	11 ^h 24'	14 ^h 21'	22 ^h 34'	15 ^h 46'	19 ^h 44'	26 ^h 02'	26 ^h 50'	1 ^h 48'	10 ^h 30'	W26
T 27	0 26 01	4 ^h 37'18"	7 ^h 37'	24 ^h 16'	20 ^h 47'	13 ^h 48'	11 ^h 34'	14 ^h 17'	22 ^h 33'	15 ^h 47'	19 ^h 42'	26 ^h 02'	26 ^h 47'	1 ^h 55'	10 ^h 29'	T 27
F 28	0 29 58	5 ^h 36'08"	21 ^h 29'	25 ^h 43'	21 ^h 50'	14 ^h 28'	11 ^h 44'	14 ^h 12'	22 ^h 31'	15 ^h 49'	19 ^h 41'	26 ^h 28'	26 ^h 43'	2 ^h 02'	10 ^h 29'	F 28
S 29	0 33 54	6 ^h 35'00"	5 ^h 43'	27 ^h 09'	22 ^h 53'	15 ^h 07'	11 ^h 54'	14 ^h 07'	22 ^h 30'	15 ^h 51'	19 ^h 40'	26 ^h 26'	26 ^h 40'	2 ^h 09'	10 ^h 28'	S 29
S 30	0 37 51	7 ^h 43'54"	20 ^h 19'	28 ^h 43'	23 ^h 55'	15 ^h 47'	12 ^h 04'	14 ^h 03'	22 ^h 28'	15 ^h 52'	19 ^h 39'	26 ^h 21'	26 ^h 37'	2 ^h 15'	10 ^h 27'	S 30

Delta T = 86.95 sec

OCTOBER 2085

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 41 47	8 ^h 32'50	5 ^h 12	29 ^h 58	24 ^h 58	16 ^h 26	12 ^h 14	13 ^h R58	22 ^h R27	15 ^h Ω54	19 ^h R38	26 ^h R13	26 ^h ♂34	2 ^h 22	10 ^h R26	M 1
T 2	0 45 44	9 ^h 31'47	20 ^h 15	1 ^h 20	26 ^h 0	17 ^h 6	12 ^h 24	13 ^h Υ53	22 ^h ≈25	15 ^h 55	19 ^h Υ37	26 ^h ♂4	26 ^h 31	2 ^h 29	10 ^h Π25	T 2
W 3	0 49 40	10 ^h 30'46	5 ^h Υ19	2 ^h 42	27 ^h 2	17 ^h 45	12 ^h 34	13 ^h 49	22 ^h 24	15 ^h 57	19 ^h 36	25 ^h 53	26 ^h 28	2 ^h 35	10 ^h 24	W 3
T 4	0 53 37	11 ^h 29'48	20 ^h 13	4 ^h 2	28 ^h 3	18 ^h 25	12 ^h 44	13 ^h 44	22 ^h 23	15 ^h 58	19 ^h 35	25 ^h 42	26 ^h 24	2 ^h 42	10 ^h 22	T 4
F 5	0 57 34	12 ^h 28'51	4 ^h 50	5 ^h 22	29 ^h 4	19 ^h 5	12 ^h 53	13 ^h 39	22 ^h 21	15 ^h 59	19 ^h 33	25 ^h 33	26 ^h 21	2 ^h 49	10 ^h 21	F 5
S 6	1 1 30	13 ^h 27'56	19 ^h 1	6 ^h 39	0 ^h ♂5	19 ^h 44	13 ^h 3	13 ^h 34	22 ^h 20	16 ^h 1	19 ^h 32	25 ^h 26	26 ^h 18	2 ^h 56	10 ^h 20	S 6
S 7	1 5 27	14 ^h 27'04	2 ^h Π44	7 ^h 56	1 ^h 5	20 ^h 24	13 ^h 12	13 ^h 30	22 ^h 19	16 ^h 2	19 ^h 31	25 ^h 21	26 ^h 15	3 ^h 2	10 ^h 18	S 7
M 8	1 9 23	15 ^h 26'14	15 ^h 59	9 ^h 11	2 ^h 5	21 ^h 4	13 ^h 21	13 ^h 25	22 ^h 18	16 ^h 3	19 ^h 30	25 ^h 19	26 ^h 12	3 ^h 9	10 ^h 17	M 8
T 9	1 13 20	16 ^h 25'27	28 ^h 48	10 ^h 25	3 ^h 5	21 ^h 44	13 ^h 30	13 ^h 20	22 ^h 17	16 ^h 5	19 ^h 29	25 ^h D19	26 ^h 8	3 ^h 16	10 ^h 15	T 9
W10	1 17 16	17 ^h 24'41	11 ^h 515	11 ^h 37	4 ^h 4	22 ^h 23	13 ^h 39	13 ^h 15	22 ^h 16	16 ^h 6	19 ^h 28	25 ^h 19	26 ^h 5	3 ^h 22	10 ^h 14	W10
T 11	1 21 13	18 ^h 23'58	23 ^h 25	12 ^h 47	5 ^h 4	23 ^h 3	13 ^h 48	13 ^h 11	22 ^h 15	16 ^h 7	19 ^h 27	25 ^h R19	26 ^h 2	3 ^h 29	10 ^h 12	T 11
F 12	1 25 9	19 ^h 23'18	5 ^h Ω23	13 ^h 56	6 ^h 2	23 ^h 43	13 ^h 57	13 ^h 6	22 ^h 14	16 ^h 8	19 ^h 25	25 ^h 18	25 ^h 59	3 ^h 36	10 ^h 11	F 12
S 13	1 29 6	20 ^h 22'39	17 ^h 15	15 ^h 2	7 ^h 0	24 ^h 23	14 ^h 5	13 ^h 1	22 ^h 13	16 ^h 10	19 ^h 24	25 ^h 14	25 ^h 56	3 ^h 43	10 ^h 9	S 13
S 14	1 33 3	21 ^h 22'03	29 ^h 5	16 ^h 7	7 ^h 58	25 ^h 3	14 ^h 14	12 ^h 57	22 ^h 12	16 ^h 11	19 ^h 23	25 ^h 8	25 ^h 53	3 ^h 49	10 ^h 7	S 14
M15	1 36 59	22 ^h 21'29	10 ^h 57	17 ^h 9	8 ^h 55	25 ^h 43	14 ^h 22	12 ^h 52	22 ^h 11	16 ^h 12	19 ^h 22	25 ^h 0	25 ^h 49	3 ^h 56	10 ^h 5	M15
T 16	1 40 56	23 ^h 20'57	22 ^h 55	18 ^h 8	9 ^h 52	26 ^h 24	14 ^h 31	12 ^h 48	22 ^h 10	16 ^h 13	19 ^h 21	24 ^h 49	25 ^h 46	4 ^h 3	10 ^h 3	T 16
W17	1 44 52	24 ^h 20'27	5 ^h Ω0	19 ^h 5	10 ^h 49	27 ^h 4	14 ^h 39	12 ^h 43	22 ^h 10	16 ^h 14	19 ^h 20	24 ^h 38	25 ^h 43	4 ^h 9	10 ^h 1	W17
T 18	1 48 49	25 ^h 20'00	17 ^h 15	19 ^h 58	11 ^h 45	27 ^h 44	14 ^h 47	12 ^h 38	22 ^h 9	16 ^h 15	19 ^h 18	24 ^h 26	25 ^h 40	4 ^h 16	9 ^h 59	T 18
F 19	1 52 45	26 ^h 19'34	29 ^h 40	20 ^h 48	12 ^h 40	28 ^h 24	14 ^h 55	12 ^h 34	22 ^h 8	16 ^h 16	19 ^h 17	24 ^h 16	25 ^h 37	4 ^h 23	9 ^h 57	F 19
S 20	1 56 42	27 ^h 19'10	12 ^h 16	21 ^h 35	13 ^h 35	29 ^h 5	15 ^h 2	12 ^h 29	22 ^h 8	16 ^h 17	19 ^h 16	24 ^h 7	25 ^h 34	4 ^h 30	9 ^h 55	S 20
S 21	2 0 38	28 ^h 18'49	25 ^h 2	22 ^h 17	14 ^h 30	29 ^h 45	15 ^h 10	12 ^h 25	22 ^h 7	16 ^h 18	19 ^h 15	24 ^h 1	25 ^h 30	4 ^h 36	9 ^h 53	S 21
M22	2 4 35	29 ^h 18'29	7 ^h ♂59	22 ^h 55	15 ^h 23	0 ^h 125	15 ^h 17	12 ^h 20	22 ^h 7	16 ^h 19	19 ^h 14	23 ^h 57	25 ^h 27	4 ^h 43	9 ^h 50	M22
T 23	2 8 32	0 ^h 18'12	21 ^h 8	23 ^h 27	16 ^h 17	1 ^h 6	15 ^h 25	12 ^h 16	22 ^h 6	16 ^h 20	19 ^h 13	23 ^h D56	25 ^h 24	4 ^h 50	9 ^h 48	T 23
W24	2 12 28	1 ^h 17'56	4 ^h 829	23 ^h 54	17 ^h 9	1 ^h 46	15 ^h 32	12 ^h 12	22 ^h 6	16 ^h 21	19 ^h 12	23 ^h 56	25 ^h 21	4 ^h 56	9 ^h 46	W24
T 25	2 16 25	2 ^h 17'41	18 ^h 4	24 ^h 15	18 ^h 1	2 ^h 27	15 ^h 39	12 ^h 7	22 ^h 5	16 ^h 22	19 ^h 10	23 ^h 57	25 ^h 18	5 ^h 3	9 ^h 43	T 25
F 26	2 20 21	3 ^h 17'29	1 ^h ≈53	24 ^h 29	18 ^h 53	3 ^h 7	15 ^h 46	12 ^h 3	22 ^h 5	16 ^h 22	19 ^h 9	23 ^h R58	25 ^h 14	5 ^h 10	9 ^h 41	F 26
S 27	2 24 18	4 ^h 17'18	15 ^h 58	24 ^h R36	19 ^h 43	3 ^h 48	15 ^h 53	11 ^h 59	22 ^h 5	16 ^h 23	19 ^h 8	23 ^h 57	25 ^h 11	5 ^h 17	9 ^h 38	S 27
S 28	2 28 14	5 ^h 17'08	0 ^h ♂17	24 ^h 35	20 ^h 33	4 ^h 28	15 ^h 59	11 ^h 55	22 ^h 5	16 ^h 24	19 ^h 7	23 ^h 55	25 ^h 8	5 ^h 23	9 ^h 36	S 28
M29	2 32 11	6 ^h 17'00	14 ^h 47	24 ^h 26	21 ^h 22	5 ^h 9	16 ^h 6	11 ^h 51	22 ^h 4	16 ^h 25	19 ^h 6	23 ^h 50	25 ^h 5	5 ^h 30	9 ^h 33	M29
T 30	2 36 7	7 ^h 16'54	29 ^h 25	24 ^h 7	22 ^h 10	5 ^h 50	16 ^h 12	11 ^h 47	22 ^h 4	16 ^h 25	19 ^h 5	23 ^h 44	25 ^h 2	5 ^h 37	9 ^h 31	T 30
W31	2 40 4	8 ^h 16'49	14 ^h Υ4	23 ^h 140	22 ^h ♂58	6 ^h 130	16 ^h Ω18	11 ^h Υ43	22 ^h D4	16 ^h Ω26	19 ^h Υ4	23 ^h ♂37	24 ^h ♂59	5 ^h 143	9 ^h Π28	W31

ASTRODIENST EPHEMERIS for the year 2085

geocentric

NOVEMBER 2085

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 44 0	9♉16'47	28♏37	23°R 3	23♏44	7♉11	16♏24	11°R39	22≈ 4	16♏27	19°R 3	23°R29	24♏55	5♏50	9°R25	T 1	
F 2	2 47 57	10°16'46	12♏57	22♉16	24°30	7°52	16°30	11°Y35	22° 4	16°27	19°Y 2	23♏23	24°52	5°57	9♏22	F 2	
S 3	2 51 54	11°16'47	26°57	21°21	25°15	8°33	16°36	11°31	22° 4	16°28	19° 1	23°18	24°49	6° 4	9°20	S 3	
S 4	2 55 50	12°16'50	10♏35	20°18	25°59	9°14	16°41	11°28	22° 5	16°28	19° 0	23°16	24°46	6°10	9°17	S 4	
M 5	2 59 47	13°16'55	23°49	19° 8	26°42	9°55	16°46	11°24	22° 5	16°29	18°59	23°D15	24°43	6°17	9°14	M 5	
T 6	3 3 43	14°17'02	6♏40	17°53	27°23	10°36	16°52	11°20	22° 5	16°29	18°58	23°16	24°40	6°24	9°11	T 6	
W 7	3 7 40	15°17'11	19°10	16°34	28° 4	11°17	16°57	11°17	22° 5	16°29	18°56	23°17	24°36	6°30	9° 8	W 7	
T 8	3 11 36	16°17'22	1♏24	15°15	28°43	11°58	17° 1	11°13	22° 6	16°30	18°55	23°19	24°33	6°37	9° 5	T 8	
F 9	3 15 33	17°17'35	13°25	13°58	29°22	12°39	17° 6	11°10	22° 6	16°30	18°54	23°R20	24°30	6°44	9° 2	F 9	
S 10	3 19 30	18°17'50	25°18	12°45	29°59	13°20	17°11	11° 7	22° 7	16°30	18°53	23°20	24°27	6°51	8°59	S 10	
S 11	3 23 26	19°18'07	7♏10	11°39	0♏35	14° 1	17°15	11° 4	22° 7	16°31	18°52	23°18	24°24	6°57	8°56	S 11	
M12	3 27 23	20°18'26	19° 4	10°41	1° 9	14°43	17°19	11° 0	22° 8	16°31	18°52	23°15	24°20	7° 4	8°53	M12	
T 13	3 31 19	21°18'47	1♏4	9°54	1°42	15°24	17°23	10°57	22° 8	16°31	18°51	23°10	24°17	7°11	8°49	T 13	
W14	3 35 16	22°19'10	13°15	9°17	2°14	16° 5	17°27	10°54	22° 9	16°31	18°50	23° 5	24°14	7°17	8°46	W14	
T 15	3 39 12	23°19'35	25°39	8°53	2°44	16°47	17°31	10°52	22°10	16°31	18°49	22°59	24°11	7°24	8°43	T 15	
F 16	3 43 9	24°20'01	8♉16	8°39	3°13	17°28	17°34	10°49	22°10	16°31	18°48	22°54	24° 8	7°31	8°40	F 16	
S 17	3 47 5	25°20'29	21° 9	8°D38	3°40	18°10	17°37	10°46	22°11	16°32	18°47	22°50	24° 5	7°38	8°37	S 17	
S 18	3 51 2	26°20'59	4♏16	8°47	4° 6	18°51	17°40	10°44	22°12	16°R32	18°46	22°48	24° 1	7°44	8°33	S 18	
M19	3 54 59	27°21'30	17°37	9° 6	4°29	19°33	17°43	10°41	22°13	16°32	18°45	22°D47	23°58	7°51	8°30	M19	
T 20	3 58 55	28°22'03	1♏10	9°35	4°51	20°14	17°46	10°39	22°14	16°31	18°44	22°47	23°55	7°58	8°27	T 20	
W21	4 2 52	29°22'37	14°54	10°12	5°11	20°56	17°49	10°36	22°15	16°31	18°43	22°48	23°52	8° 4	8°23	W21	
T 22	4 6 48	0♏23'13	28°47	10°57	5°29	21°38	17°51	10°34	22°16	16°31	18°43	22°49	23°49	8°11	8°20	T 22	
F 23	4 10 45	1°23'50	12♏47	11°48	5°45	22°19	17°53	10°32	22°17	16°31	18°42	22°51	23°46	8°18	8°17	F 23	
S 24	4 14 41	2°24'27	26°54	12°45	5°59	23° 1	17°55	10°30	22°18	16°31	18°41	22°R51	23°42	8°25	8°13	S 24	
S 25	4 18 38	3°25'06	11♏5	13°48	6°11	23°43	17°57	10°28	22°20	16°31	18°40	22°51	23°39	8°31	8°10	S 25	
M26	4 22 34	4°25'46	25°18	14°54	6°20	24°25	17°58	10°26	22°21	16°30	18°39	22°50	23°36	8°38	8° 7	M26	
T 27	4 26 31	5°26'26	9♏32	16° 5	6°27	25° 7	18° 0	10°25	22°22	16°30	18°39	22°49	23°33	8°45	8° 3	T 27	
W28	4 30 28	6°27'08	23°42	17°19	6°32	25°49	18° 1	10°23	22°24	16°30	18°38	22°46	23°30	8°51	8° 0	W28	
T 29	4 34 24	7°27'51	7♏44	18°35	6°35	26°31	18° 2	10°21	22°25	16°30	18°37	22°44	23°26	8°58	7°56	T 29	
F 30	4 38 21	8♏28'36	21♏37	19♉55	6°R35	27♉13	18♏3	10°Y20	22≈26	16♏29	18°Y37	22♏42	23♏23	9♏5	7♏53	F 30	

Delta T = 87.02 sec

DECEMBER 2085

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 42 17	9♏29'21	5♏15	21♉16	6°R33	27♉55	18♏3	10°R19	22♏28	16°R29	18°R36	22°R41	23♏20	9♏12	7°R50	S 1	
S 2	4 46 14	10°30'08	18°36	22°39	6♏28	28°37	18° 4	10°Y18	22°30	16♏28	18°Y35	22°D40	23°17	9°18	7♏46	S 2	
M 3	4 50 10	11°30'56	1♏40	24° 3	6°21	29°19	18° 4	10°17	22°31	16°28	18°35	22♏41	23°14	9°25	7°43	M 3	
T 4	4 54 7	12°31'45	14°26	25°29	6°11	0♏1	18°R 4	10°16	22°33	16°27	18°34	22°41	23°11	9°32	7°40	T 4	
W 5	4 58 3	13°32'35	26°55	26°56	5°59	0°44	18° 4	10°15	22°34	16°27	18°33	22°42	23° 7	9°39	7°36	W 5	
T 6	5 2 0	14°33'27	9♏9	28°23	5°44	1°26	18° 4	10°14	22°36	16°26	18°33	22°43	23° 4	9°45	7°33	T 6	
F 7	5 5 57	15°34'20	21°11	29°52	5°27	2° 8	18° 3	10°13	22°38	16°26	18°32	22°44	23° 1	9°52	7°29	F 7	
S 8	5 9 53	16°35'14	3♏6	1♏21	5° 8	2°51	18° 2	10°13	22°40	16°25	18°32	22°44	22°58	9°59	7°26	S 8	
S 9	5 13 50	17°36'09	14°59	2°50	4°46	3°33	18° 1	10°12	22°42	16°24	18°31	22°R45	22°55	10° 5	7°23	S 9	
M10	5 17 46	18°37'05	26°52	4°20	4°23	4°16	18° 0	10°12	22°44	16°23	18°31	22°45	22°52	10°12	7°19	M10	
T 11	5 21 43	19°38'03	8♏53	5°51	3°57	4°58	17°59	10°12	22°46	16°23	18°30	22°44	22°48	10°19	7°16	T 11	
W12	5 25 39	20°39'02	21° 4	7°22	3°29	5°41	17°57	10°12	22°48	16°22	18°30	22°44	22°45	10°26	7°13	W12	
T 13	5 29 36	21°40'02	3♏11	8°53	2°59	6°24	17°55	10°D12	22°50	16°21	18°29	22°44	22°42	10°32	7°10	T 13	
F 14	5 33 32	22°41'03	16°15	10°24	2°28	7° 6	17°54	10°12	22°52	16°20	18°29	22°D44	22°39	10°39	7° 6	F 14	
S 15	5 37 29	23°42'05	29°19	11°56	1°55	7°49	17°51	10°12	22°54	16°19	18°29	22°44	22°36	10°46	7° 3	S 15	
S 16	5 41 26	24°43'08	12♏44	13°28	1°22	8°32	17°49	10°12	22°56	16°19	18°28	22°44	22°32	10°52	7° 0	S 16	
M17	5 45 22	25°44'12	26°27	15° 0	0°47	9°15	17°47	10°13	22°58	16°18	18°28	22°R44	22°29	10°59	6°57	M17	
T 18	5 49 19	26°45'17	10♏28	16°32	0°11	9°57	17°44	10°13	23° 0	16°17	18°27	22°44	22°26	11° 6	6°54	T 18	
W19	5 53 15	27°46'22	24°41	18° 5	29♏35	10°40	17°41	10°14	23° 3	16°16	18°27	22°43	22°23	11°13	6°50	W19	
T 20	5 57 12	28°47'27	9♏3	19°37	28°59	11°23	17°38	10°15	23° 5	16°15	18°27	22°43	22°20	11°19	6°47	T 20	
F 21	6 1 8	29°48'33	23°27	21°10	28°22	12° 6	17°34	10°15	23° 7	16°14	18°27	22°42	22°17	11°26	6°44	F 21	
S 22	6 5 5	0♏39'39	7♏50	22°43	27°46	12°49	17°31	10°16	23°10	16°13	18°26	22°41	22°13	11°33	6°41	S 22	
S 23	6 9 1	1°50'45	22° 8	24°16	27°10	13°32	17°27	10°18	23°12	16°12	18°26	22°41	22°10	11°39	6°38	S 23	
M24	6 12 58	2°51'52	6°Y17	25°50	26°35	14°15	17°23	10°19	23°15	16°11	18°26	22°D41	22° 7	11°46	6°35	M24	
T 25	6 16 55	3°52'58	20°16	27°23	26° 1	14°59	17°19	10°20	23°17	16° 9	18°26	22°41	22° 4	11°53	6°32	T 25	
W26	6 20 51	4°54'05	4♏4	28°57	25°28	15°42	17°15	10°22	23°20	16° 8	18°26	22°42	22° 1	12° 0	6°30	W26	
T 27	6 24 48	5°55'12	17°40	0♏31	24°56	16°25	17°11	10°23	23°22	16° 7	18°25	22°43	21°58	12° 6	6°27	T 27	
F 28	6 28 44	6°56'18	1♏4	2° 5	24°27	17° 8	17° 6	10°25	23°25	16° 6	18°25	22°44	21°54	12°13	6°24	F 28	
S 29	6 32 41	7°57'26	14°15	3°40	23°58	17°52	17° 2	10°26	23°28	16° 5	18°25	22°45	21°51	12°20	6°21	S 29	
S 30	6 36 37	8°58'33	27°14	5°15	23°32	18°35	16°57	10°28	23°30	16° 3	18°25	22°R45	21°48	12°27	6°18	S 30	
M31	6 40 34	9♏59'40	10♏0	6♏50	23♏8	19♏18	16♏52	10°Y30	23♏33	16♏2	18°Y25	22♏44	21♏45	12♏33	6♏16	M31	

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