



Astrodienst Ephemeris Tables for the year 2246

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 2246
geocentric

JANUARY 2246

00:00 UT

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

Delta T = 215.17 sec

FEBRUARY 2246

00:00 UT

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

ASTRODIENST EPHEMERIS for the year 2246
geocentric

MARCH 2246

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 34 9	10♈ 2'47	13♏21	18♌46	27♋55	21♌30	8♌26	12♏R16	28♋17	5♏R58	11♌33	12♏R50	14♌4	19♏30	2♏R 4	S 1
M 2	10 38 5	11° 3'07	25°51	20°14	29° 6	22°17	8°39	12♏12	28°20	5♏L57	11°33	12♏R38	14° 0	19°37	2♏L 3	M 2
T 3	10 42 2	12° 3'24	8♏11	21°44	0♌16	23° 4	8°52	12° 9	28°22	5°55	11°33	12°26	13°57	19°43	2° 1	T 3
W 4	10 45 58	13° 3'40	20°21	23°15	1°27	23°51	9° 5	12° 5	28°25	5°54	11°34	12°16	13°54	19°50	1°59	W 4
T 5	10 49 55	14° 3'54	2♏22	24°46	2°37	24°38	9°17	12° 1	28°28	5°53	11°34	12° 7	13°51	19°57	1°57	T 5
F 6	10 53 51	15° 4'07	14°16	26°19	3°48	25°25	9°30	11°57	28°31	5°51	11°34	12° 0	13°48	20° 3	1°55	F 6
S 7	10 57 48	16° 4'18	26° 5	27°53	4°59	26°12	9°43	11°53	28°33	5°50	11°35	11°57	13°45	20°10	1°53	S 7
S 8	11 1 45	17° 4'27	7♏L52	29°28	6°10	26°59	9°56	11°49	28°36	5°49	11°35	11°D55	13°41	20°17	1°50	S 8
M 9	11 5 41	18° 4'35	19°40	1♌4	7°21	27°46	10° 8	11°45	28°39	5°48	11°35	11°55	13°38	20°23	1°48	M 9
T 10	11 9 38	19° 4'41	1♌36	2°41	8°32	28°33	10°21	11°41	28°41	5°47	11°35	11°56	13°35	20°30	1°45	T 10
W 11	11 13 34	20° 4'45	13°43	4°20	9°43	29°20	10°33	11°37	28°44	5°46	11°36	11°57	13°32	20°36	1°43	W 11
T 12	11 17 31	21° 4'48	26° 7	5°59	10°54	0♌7	10°46	11°33	28°46	5°44	11°36	11°R57	13°29	20°43	1°40	T 12
F 13	11 21 27	22° 4'50	8♋53	7°39	12° 5	0°54	10°58	11°28	28°49	5°43	11°36	11°56	13°25	20°50	1°37	F 13
S 14	11 25 24	23° 4'50	22° 5	9°21	13°16	1°42	11°10	11°24	28°51	5°42	11°36	11°52	13°22	20°56	1°34	S 14
S 15	11 29 20	24° 4'48	5♌45	11° 4	14°28	2°29	11°22	11°20	28°54	5°41	11°R36	11°47	13°19	21° 3	1°31	S 15
M 16	11 33 17	25° 4'45	19°55	12°48	15°39	3°16	11°35	11°15	28°56	5°40	11°36	11°40	13°16	21°10	1°28	M 16
T 17	11 37 14	26° 4'39	4♌30	14°33	16°50	4° 3	11°47	11°11	28°58	5°39	11°36	11°32	13°13	21°16	1°25	T 17
W 18	11 41 10	27° 4'32	19°25	16°19	18° 2	4°50	11°59	11° 7	29° 1	5°38	11°36	11°25	13°10	21°23	1°22	W 18
T 19	11 45 7	28° 4'23	4♏32	18° 6	19°13	5°37	12°11	11° 2	29° 3	5°38	11°36	11°20	13° 6	21°30	1°18	T 19
F 20	11 49 3	29° 4'12	19°40	19°55	20°25	6°24	12°22	10°57	29° 5	5°37	11°35	11°16	13° 3	21°36	1°15	F 20
S 21	11 53 0	0♏3'59	4♌41	21°44	21°37	7°11	12°34	10°53	29° 7	5°36	11°35	11°D14	13° 0	21°43	1°11	S 21
S 22	11 56 56	1° 3'44	19°26	23°35	22°48	7°58	12°46	10°48	29° 9	5°35	11°35	11°14	12°57	21°50	1° 8	S 22
M 23	12 0 53	2° 3'26	3♏L50	25°28	24° 0	8°45	12°57	10°44	29°11	5°34	11°35	11°15	12°54	21°56	1° 4	M 23
T 24	12 4 49	3° 3'07	17°51	27°21	25°12	9°32	13° 9	10°39	29°13	5°33	11°34	11°17	12°51	22° 3	1° 0	T 24
W 25	12 8 46	4° 2'45	1♌30	29°15	26°23	10°19	13°20	10°34	29°15	5°33	11°34	11°R18	12°47	22°10	0°57	W 25
T 26	12 12 43	5° 2'21	14°46	1♏11	27°35	11° 6	13°31	10°30	29°17	5°32	11°34	11°17	12°44	22°16	0°53	T 26
F 27	12 16 39	6° 1'54	27°44	3° 8	28°47	11°53	13°43	10°25	29°19	5°31	11°33	11°15	12°41	22°23	0°49	F 27
S 28	12 20 36	7° 1'25	10♏L24	5° 6	29°59	12°40	13°54	10°20	29°21	5°31	11°33	11°12	12°38	22°30	0°45	S 28
S 29	12 24 32	8° 0'54	22°51	7° 5	1♌11	13°27	14° 5	10°16	29°23	5°30	11°33	11° 7	12°35	22°36	0°41	S 29
M 30	12 28 29	9° 0'21	5♏7	9° 5	2°23	14°14	14°16	10°11	29°25	5°29	11°32	11° 1	12°31	22°43	0°36	M 30
T 31	12 32 25	9♏59'45	17♏13	11♏6	3♌35	15♌1	14♌27	10♌6	29♋26	5♏L29	11♌32	10♌55	12♌28	22♌50	0♏L32	T 31

Delta T = 215.38 sec

APRIL 2246

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 36 22	10♏59'07	29♏12	13♏8	4♌47	15♌48	14♌37	10♏R 2	29♋28	5♏R28	11°R31	10♏R50	12♌25	22♌56	0♏R24	W 1
T 2	12 40 18	11°58'27	11♌5	15°10	5°59	16°35	14°48	9♌57	29°30	5♏L28	11♌30	10♌46	12°22	23° 3	0♏L28	T 2
F 3	12 44 15	12°57'46	22°55	17°13	7°11	17°22	14°58	9°52	29°31	5°27	11°30	10°43	12°19	23°10	0°19	F 3
S 4	12 48 12	13°57'02	4♏L43	19°16	8°23	18° 9	15° 9	9°48	29°33	5°27	11°29	10°42	12°16	23°16	0°15	S 4
S 5	12 52 8	14°56'16	16°31	21°19	9°35	18°56	15°19	9°43	29°34	5°27	11°28	10°D42	12°12	23°23	0°11	S 5
M 6	12 56 5	15°55'28	28°23	23°22	10°47	19°43	15°29	9°38	29°36	5°26	11°28	10°43	12° 9	23°29	0° 6	M 6
T 7	13 0 1	16°54'39	10♌22	25°24	11°59	20°30	15°40	9°34	29°37	5°26	11°27	10°44	12° 6	23°36	0° 2	T 7
W 8	13 3 58	17°53'48	22°31	27°26	13°12	21°17	15°50	9°29	29°38	5°26	11°26	10°46	12° 3	23°43	29♌57	W 8
T 9	13 7 54	18°52'55	4♋56	29°26	14°24	22° 4	15°59	9°24	29°40	5°25	11°25	10°47	12° 0	23°49	29°52	T 9
F 10	13 11 51	19°52'00	17°39	1♌25	15°36	22°51	16° 9	9°20	29°41	5°25	11°25	10°R48	11°57	23°56	29°48	F 10
S 11	13 15 47	20°51'04	0♌46	3°22	16°49	23°38	16°19	9°15	29°42	5°25	11°24	10°48	11°53	24° 3	29°43	S 11
S 12	13 19 44	21°50'05	14°18	5°17	18° 1	24°25	16°28	9°11	29°43	5°25	11°23	10°46	11°50	24° 9	29°38	S 12
M 13	13 23 41	22°49'05	28°18	7°10	19°13	25°12	16°38	9° 6	29°45	5°25	11°22	10°45	11°47	24°16	29°34	M 13
T 14	13 27 37	23°48'04	12♌44	8°59	20°26	25°58	16°47	9° 2	29°46	5°25	11°21	10°42	11°44	24°23	29°29	T 14
W 15	13 31 34	24°47'00	27°33	10°45	21°38	26°45	16°56	8°57	29°47	5°25	11°20	10°40	11°41	24°29	29°24	W 15
T 16	13 35 30	25°45'54	12♏39	12°27	22°50	27°32	17° 5	8°53	29°48	5°D25	11°19	10°39	11°37	24°36	29°20	T 16
F 17	13 39 27	26°44'47	27°52	14° 6	24° 3	28°19	17°14	8°48	29°48	5°25	11°18	10°38	11°34	24°43	29°15	F 17
S 18	13 43 23	27°43'38	13♌2	15°40	25°15	29° 5	17°23	8°44	29°49	5°25	11°17	10°D37	11°31	24°49	29°10	S 18
S 19	13 47 20	28°42'26	28° 1	17°10	26°28	29°52	17°32	8°40	29°50	5°25	11°16	10°38	11°28	24°56	29° 5	S 19
M 20	13 51 16	29°41'13	12♏L41	18°35	27°40	0♏39	17°41	8°36	29°51	5°25	11°15	10°39	11°25	25° 3	29° 1	M 20
T 21	13 55 13	0♌39'57	26°56	19°56	28°53	1°26	17°49	8°31	29°52	5°25	11°14	10°40	11°22	25° 9	28°56	T 21
W 22	13 59 10	1°38'39	10♌36	21°11	0♏5	2°12	17°57	8°27	29°52	5°25	11°13	10°40	11°18	25°16	28°51	W 22
T 23	14 3 6	2°37'19	24° 9	22°21	1°18	2°59	18° 5	8°23	29°53	5°25	11°11	10°41	11°15	25°23	28°46	T 23
F 24	14 7 3	3°35'57	7♏9	23°26	2°30	3°45	18°13	8°19	29°53	5°26	11°10	10°R41	11°12	25°29	28°42	F 24
S 25	14 10 59	4°34'32	19°47	24°26	3°43	4°32	18°21	8°15	29°54	5°26	11° 9	10°41	11° 9	25°36	28°37	S 25
S 26	14 14 56	5°33'06	2♏8	25°20	4°55	5°19	18°29	8°11	29°54	5°26	11° 8	10°40	11° 6	25°43	28°32	S 26
M 27	14 18 52	6°31'37	14°16	26° 8	6° 8	6° 5	18°37	8° 7	29°55	5°27	11° 7	10°40	11° 2	25°49	28°28	M 27
T 28	14 22 49	7°30'06	26°14	26°51	7°21	6°51	18°44	8° 4	29°55	5°27	11° 5	10°39	10°59	25°56	28°23	T 28
W 29	14 26 45	8°28'32	8♌6	27°28	8°33	7°38	18°51	8° 0	29°55	5°27	11° 4	10°39	10°56	26° 2	28°18	W 29
T 30	14 30 42	9♌26'57	19♌54	28♌0	9♏46	8♏24	18♌59	7♌56	29♋56	5♏L28	11♌3	10♌39	10♌53	26♌9	28♌14	T 30

Delta T = 215.49 sec

ASTRODIENST EPHEMERIS for the year 2246

geocentric

MAY 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 34 39	10 ⁸ 25'20	1 ¹¹ 42	28 ⁸ 26	10 ¹⁰ 58	9 ⁹ 11	19 ¹⁹ 6	7 ⁷ R53	29 ²⁹ 56	5 ⁵ 28	11 ¹¹ R 1	10 ¹⁰ D39	10 ¹⁰ 50	26 ²⁶ 16	28 ²⁸ R 9	F 1
S 2	14 38 35	11 ¹¹ 23'41	13 ¹³ 32	28 ²⁸ 46	12 ¹² 11	9 ⁹ 57	19 ¹⁹ 13	7 ⁷ 249	29 ²⁹ 56	5 ⁵ 29	11 ¹¹ 2 0	10 ¹⁰ R39	10 ¹⁰ 47	26 ²⁶ 22	28 ²⁸ 2 5	S 2
S 3	14 42 32	12 ¹² 22'01	25 ²⁵ 25	29 ²⁹ 0	13 ¹³ 24	10 ¹⁰ 43	19 ¹⁹ 19	7 ⁷ 46	29 ²⁹ 56	5 ⁵ 29	10 ¹⁰ 59	10 ¹⁰ 38	10 ¹⁰ 43	26 ²⁶ 29	28 ²⁸ 0	S 3
M 4	14 46 28	13 ¹³ 20'18	7 ⁷ 25	29 ²⁹ 8	14 ¹⁴ 36	11 ¹¹ 30	19 ¹⁹ 26	7 ⁷ 42	29 ²⁹ 56	5 ⁵ 30	10 ¹⁰ 57	10 ¹⁰ 38	10 ¹⁰ 40	26 ²⁶ 36	27 ²⁷ 56	M 4
T 5	14 50 25	14 ¹⁴ 18'34	19 ¹⁹ 33	29 ²⁹ R12	15 ¹⁵ 49	12 ¹² 16	19 ¹⁹ 32	7 ⁷ 39	29 ²⁹ R56	5 ⁵ 30	10 ¹⁰ 56	10 ¹⁰ 38	10 ¹⁰ 37	26 ²⁶ 42	27 ²⁷ 51	T 5
W 6	14 54 21	15 ¹⁵ 16'49	1 ¹ 52	29 ²⁹ 9	17 ¹⁷ 2	13 ¹³ 2	19 ¹⁹ 39	7 ⁷ 36	29 ²⁹ 56	5 ⁵ 31	10 ¹⁰ 54	10 ¹⁰ 37	10 ¹⁰ 34	26 ²⁶ 49	27 ²⁷ 47	W 6
T 7	14 58 18	16 ¹⁶ 15'02	14 ¹⁴ 24	29 ²⁹ 2	18 ¹⁸ 14	13 ¹³ 48	19 ¹⁹ 45	7 ⁷ 33	29 ²⁹ 56	5 ⁵ 32	10 ¹⁰ 53	10 ¹⁰ 37	10 ¹⁰ 31	26 ²⁶ 56	27 ²⁷ 42	T 7
F 8	15 2 14	17 ¹⁷ 13'13	27 ²⁷ 12	28 ²⁸ 50	19 ¹⁹ 27	14 ¹⁴ 35	19 ¹⁹ 51	7 ⁷ 30	29 ²⁹ 56	5 ⁵ 33	10 ¹⁰ 52	10 ¹⁰ 36	10 ¹⁰ 28	27 ²⁷ 2	27 ²⁷ 38	F 8
S 9	15 6 11	18 ¹⁸ 11'23	10 ¹⁰ 18	28 ²⁸ 33	20 ²⁰ 40	15 ¹⁵ 21	19 ¹⁹ 57	7 ⁷ 27	29 ²⁹ 56	5 ⁵ 33	10 ¹⁰ 50	10 ¹⁰ 36	10 ¹⁰ 24	27 ²⁷ 9	27 ²⁷ 34	S 9
S 10	15 10 8	19 ¹⁹ 9'31	23 ²³ 45	28 ²⁸ 12	21 ²¹ 53	16 ¹⁶ 7	20 ²⁰ 2	7 ⁷ 24	29 ²⁹ 56	5 ⁵ 34	10 ¹⁰ 49	10 ¹⁰ D36	10 ¹⁰ 21	27 ²⁷ 16	27 ²⁷ 30	S 10
M 11	15 14 4	20 ²⁰ 7'38	7 ⁷ 35	27 ²⁷ 47	23 ²³ 5	16 ¹⁶ 53	20 ²⁰ 8	7 ⁷ 21	29 ²⁹ 55	5 ⁵ 35	10 ¹⁰ 47	10 ¹⁰ 36	10 ¹⁰ 18	27 ²⁷ 22	27 ²⁷ 26	M 11
T 12	15 18 1	21 ²¹ 5'44	21 ²¹ 47	27 ²⁷ 19	24 ²⁴ 18	17 ¹⁷ 39	20 ²⁰ 13	7 ⁷ 18	29 ²⁹ 55	5 ⁵ 36	10 ¹⁰ 46	10 ¹⁰ 37	10 ¹⁰ 15	27 ²⁷ 29	27 ²⁷ 22	T 12
W 13	15 21 57	22 ²² 3'48	6 ⁶ Y19	26 ²⁶ 48	25 ²⁵ 31	18 ¹⁸ 25	20 ²⁰ 18	7 ⁷ 15	29 ²⁹ 54	5 ⁵ 36	10 ¹⁰ 44	10 ¹⁰ 38	10 ¹⁰ 12	27 ²⁷ 36	27 ²⁷ 18	W 13
T 14	15 25 54	23 ²³ 1'51	21 ²¹ 9	26 ²⁶ 14	26 ²⁶ 44	19 ¹⁹ 11	20 ²⁰ 23	7 ⁷ 13	29 ²⁹ 54	5 ⁵ 37	10 ¹⁰ 43	10 ¹⁰ 38	10 ¹⁰ 8	27 ²⁷ 42	27 ²⁷ 14	T 14
F 15	15 29 50	23 ²³ 59'52	6 ⁶ 810	25 ²⁵ 40	27 ²⁷ 56	19 ¹⁹ 57	20 ²⁰ 28	7 ⁷ 10	29 ²⁹ 54	5 ⁵ 38	10 ¹⁰ 41	10 ¹⁰ R39	10 ¹⁰ 5	27 ²⁷ 49	27 ²⁷ 10	F 15
S 16	15 33 47	24 ²⁴ 57'53	21 ²¹ 13	25 ²⁵ 4	29 ²⁹ 9	20 ²⁰ 42	20 ²⁰ 33	7 ⁷ 8	29 ²⁹ 53	5 ⁵ 39	10 ¹⁰ 39	10 ¹⁰ 39	10 ¹⁰ 2	27 ²⁷ 55	27 ²⁷ 6	S 16
S 17	15 37 43	25 ²⁵ 55'51	6 ⁶ 111	24 ²⁴ 28	0 ⁰ 822	21 ²¹ 28	20 ²⁰ 37	7 ⁷ 6	29 ²⁹ 52	5 ⁵ 40	10 ¹⁰ 38	10 ¹⁰ 38	9 ⁹ 59	28 ²⁸ 2	27 ²⁷ 2	S 17
M 18	15 41 40	26 ²⁶ 53'48	20 ²⁰ 55	23 ²³ 52	1 ¹ 35	22 ²² 14	20 ²⁰ 41	7 ⁷ 3	29 ²⁹ 52	5 ⁵ 41	10 ¹⁰ 36	10 ¹⁰ 36	9 ⁹ 56	28 ²⁸ 9	26 ²⁶ 58	M 18
T 19	15 45 37	27 ²⁷ 51'44	5 ⁵ 218	23 ²³ 17	2 ² 48	23 ²³ 0	20 ²⁰ 45	7 ⁷ 1	29 ²⁹ 51	5 ⁵ 42	10 ¹⁰ 35	10 ¹⁰ 34	9 ⁹ 53	28 ²⁸ 15	26 ²⁶ 55	T 19
W 20	15 49 33	28 ²⁸ 49'37	19 ¹⁹ 16	22 ²² 43	4 ⁴ 1	23 ²³ 45	20 ²⁰ 49	6 ⁶ 59	29 ²⁹ 50	5 ⁵ 43	10 ¹⁰ 33	10 ¹⁰ 32	9 ⁹ 49	28 ²⁸ 22	26 ²⁶ 51	W 20
T 21	15 53 30	29 ²⁹ 47'29	2 ² 47	22 ²² 12	5 ⁵ 13	24 ²⁴ 31	20 ²⁰ 53	6 ⁶ 57	29 ²⁹ 50	5 ⁵ 44	10 ¹⁰ 32	10 ¹⁰ 30	9 ⁹ 46	28 ²⁸ 29	26 ²⁶ 48	T 21
F 22	15 57 26	0 ⁰ 1145'20	15 ¹⁵ 52	21 ²¹ 43	6 ⁶ 26	25 ²⁵ 17	20 ²⁰ 57	6 ⁶ 56	29 ²⁹ 49	5 ⁵ 46	10 ¹⁰ 30	10 ¹⁰ 28	9 ⁹ 43	28 ²⁸ 35	26 ²⁶ 45	F 22
S 23	16 1 23	1 ¹ 43'08	28 ²⁸ 34	21 ²¹ 17	7 ⁷ 39	26 ²⁶ 2	21 ²¹ 0	6 ⁶ 54	29 ²⁹ 48	5 ⁵ 47	10 ¹⁰ 28	10 ¹⁰ D27	9 ⁹ 40	28 ²⁸ 42	26 ²⁶ 41	S 23
S 24	16 5 19	2 ² 40'55	10 ¹⁰ 55	20 ²⁰ 55	8 ⁸ 52	26 ²⁶ 48	21 ²¹ 3	6 ⁶ 52	29 ²⁹ 47	5 ⁵ 48	10 ¹⁰ 27	10 ¹⁰ 28	9 ⁹ 37	28 ²⁸ 49	26 ²⁶ 38	S 24
M 25	16 9 16	3 ³ 38'40	23 ²³ 1	20 ²⁰ 36	10 ¹⁰ 5	27 ²⁷ 33	21 ²¹ 6	6 ⁶ 51	29 ²⁹ 46	5 ⁵ 49	10 ¹⁰ 25	10 ¹⁰ 29	9 ⁹ 34	28 ²⁸ 55	26 ²⁶ 35	M 25
T 26	16 13 12	4 ⁴ 36'23	4 ⁴ 56	20 ²⁰ 21	11 ¹¹ 18	28 ²⁸ 19	21 ²¹ 9	6 ⁶ 49	29 ²⁹ 45	5 ⁵ 50	10 ¹⁰ 23	10 ¹⁰ 30	9 ⁹ 30	29 ²⁹ 2	26 ²⁶ 32	T 26
W 27	16 17 9	5 ⁵ 34'05	16 ¹⁶ 45	20 ²⁰ 11	12 ¹² 31	29 ²⁹ 4	21 ²¹ 12	6 ⁶ 48	29 ²⁹ 44	5 ⁵ 52	10 ¹⁰ 22	10 ¹⁰ 32	9 ⁹ 27	29 ²⁹ 9	26 ²⁶ 29	W 27
T 28	16 21 6	6 ⁶ 31'46	28 ²⁸ 32	20 ²⁰ 4	13 ¹³ 43	29 ²⁹ 49	21 ²¹ 15	6 ⁶ 47	29 ²⁹ 43	5 ⁵ 53	10 ¹⁰ 20	10 ¹⁰ 33	9 ⁹ 24	29 ²⁹ 15	26 ²⁶ 26	T 28
F 29	16 25 2	7 ⁷ 29'25	10 ¹⁰ 22	20 ²⁰ D 3	14 ¹⁴ 56	0 ⁰ 834	21 ²¹ 17	6 ⁶ 45	29 ²⁹ 42	5 ⁵ 54	10 ¹⁰ 19	10 ¹⁰ R34	9 ⁹ 21	29 ²⁹ 22	26 ²⁶ 23	F 29
S 30	16 28 59	8 ⁸ 27'02	22 ²² 16	20 ²⁰ 5	16 ¹⁶ 9	1 ¹ 20	21 ²¹ 19	6 ⁶ 44	29 ²⁹ 41	5 ⁵ 56	10 ¹⁰ 17	10 ¹⁰ 33	9 ⁹ 18	29 ²⁹ 29	26 ²⁶ 21	S 30
S 31	16 32 55	9 ⁹ 114'39	4 ⁴ 17	20 ²⁰ 812	17 ¹⁷ 822	2 ² 8 5	21 ²¹ 21	6 ⁶ 43	29 ²⁹ 39	5 ⁵ 57	10 ¹⁰ 15	10 ¹⁰ 31	9 ⁹ 14	29 ²⁹ 35	26 ²⁶ 18	S 31

Delta T = 215.60 sec

JUNE 2246

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 36 52	10 ¹¹ 22'14	16 ²⁷ 29	20 ⁸ 24	18 ⁸ 35	2 ⁸ 50	21 ²² 23	6 ⁴ R43	29 ³ R38	5 ² 58	10 ¹ R14	10 ¹ R28	9 ⁸ 11	29 ⁴ 42	26 ⁹ R16	M 1
T 2	16 40 48	11 ¹⁹ 19'48	28 ⁵ 1	20 ⁴⁰	19 ⁴⁸	3 ³⁵	21 ²⁴	6 ⁴²	29 ³⁷	6 ⁰	10 ¹²	10 ⁸ 23	9 ⁸	29 ⁴⁹	26 ¹³	T 2
W 3	16 44 45	12 ¹⁷ 17'22	11 ³ 26	21 ¹	21 ¹	4 ²⁰	21 ²⁶	6 ⁴¹	29 ³⁵	6 ¹	10 ¹⁰	10 ¹⁸	9 ⁵	29 ⁵⁵	26 ¹¹	W 3
T 4	16 48 41	13 ¹⁴ 14'54	24 ¹³	21 ²⁵	22 ¹⁴	5 ⁵	21 ²⁷	6 ⁴¹	29 ³⁴	6 ³	10 ⁹	10 ¹³	9 ²	0 ² 11	26 ⁹	T 4
F 5	16 52 38	14 ¹² 12'25	7 ¹⁴	21 ⁵⁵	23 ²⁷	5 ⁵⁰	21 ²⁸	6 ⁴⁰	29 ³³	6 ⁴	10 ⁷	10 ⁸	8 ⁵⁹	0 ⁸	26 ⁷	F 5
S 6	16 56 35	15 ⁹ 5'55	20 ³⁰	22 ²⁸	24 ⁴⁰	6 ³⁵	21 ²⁹	6 ⁴⁰	29 ³¹	6 ⁶	10 ⁵	10 ⁵	8 ⁵⁵	0 ¹⁵	26 ⁵	S 6
S 7	17 0 31	16 ⁷ 2'5	4 ⁸ 0	23 ⁵	25 ⁵³	7 ¹⁹	21 ²⁹	6 ³⁹	29 ³⁰	6 ⁷	10 ⁴	10 ²	8 ⁵²	0 ²²	26 ³	S 7
M 8	17 4 28	17 ⁴ 5'3	17 ⁴⁶	23 ⁴⁷	27 ⁶	8 ⁴	21 ³⁰	6 ³⁹	29 ²⁸	6 ⁹	10 ²	10 ^D 2	8 ⁴⁹	0 ²⁸	26 ¹	M 8
T 9	17 8 24	18 ² 2'2	1 ⁴⁷	24 ³²	28 ¹⁹	8 ⁴⁹	21 ³⁰	6 ^{D39}	29 ²⁷	6 ¹⁰	10 ¹	10 ²	8 ⁴⁶	0 ³⁵	25 ⁵⁹	T 9
W 10	17 12 21	18 ⁵⁹ 49'16	3 ⁶	25 ²¹	29 ³²	9 ³⁴	21 ^{R30}	6 ³⁹	29 ²⁵	6 ¹²	9 ⁵⁹	10 ⁴	8 ⁴³	0 ⁴²	25 ⁵⁸	W 10
T 11	17 16 17	19 ⁵⁷ 16'16	0 ⁸ 33	26 ¹³	0 ¹¹ 45	10 ¹⁸	21 ³⁰	6 ³⁹	29 ²³	6 ¹⁴	9 ⁵⁷	10 ⁵	8 ⁴⁰	0 ⁴⁸	25 ⁵⁶	T 11
F 12	17 20 14	20 ⁵⁴ 42'15	15 ¹²	27 ¹⁰	1 ⁵⁸	11 ³	21 ³⁰	6 ⁴⁰	29 ²²	6 ¹⁵	9 ⁵⁶	10 ^R 5	8 ³⁶	0 ⁵⁵	25 ⁵⁵	F 12
S 13	17 24 10	21 ⁵² 0'8	29 ⁵⁶	28 ⁹	3 ¹¹	11 ⁴⁷	21 ²⁹	6 ⁴⁰	29 ²⁰	6 ¹⁷	9 ⁵⁴	10 ³	8 ³³	1 ²	25 ⁵⁴	S 13
S 14	17 28 7	22 ⁴⁹ 3'33	14 ¹¹ 37	29 ¹²	4 ²⁴	12 ³²	21 ²⁸	6 ⁴¹	29 ¹⁸	6 ¹⁹	9 ⁵³	10 ⁰	8 ³⁰	1 ⁸	25 ⁵²	S 14
M 15	17 32 4	23 ⁴⁶ 5'7	29 ¹⁰	0 ¹¹ 19	5 ³⁷	13 ¹⁶	21 ²⁷	6 ⁴¹	29 ¹⁶	6 ²¹	9 ⁵¹	9 ⁵⁵	8 ²⁷	1 ¹⁵	25 ⁵¹	M 15
T 16	17 36 0	24 ⁴⁴ 2'0	13 ⁵ 28	1 ²⁹	6 ⁵⁰	14 ⁰	21 ²⁶	6 ⁴²	29 ¹⁵	6 ²²	9 ⁴⁹	9 ⁴⁸	8 ²⁴	1 ²²	25 ⁵¹	T 16
W 17	17 39 57	25 ⁴¹ 4'3	27 ²⁴	2 ⁴²	8 ³	14 ⁴⁴	21 ²⁵	6 ⁴³	29 ¹³	6 ²⁴	9 ⁴⁸	9 ⁴¹	8 ²⁰	1 ²⁸	25 ⁵⁰	W 17
T 18	17 43 53	26 ³⁹ 0'5	10 ¹ 52	3 ⁵⁸	9 ¹⁷	15 ²⁹	21 ²⁴	6 ⁴³	29 ¹¹	6 ²⁶	9 ⁴⁶	9 ³⁴	8 ¹⁷	1 ³⁵	25 ⁴⁹	T 18
F 19	17 47 50	27 ³⁶ 26'24	4 ⁵	5 ¹⁸	10 ³⁰	16 ¹³	21 ²²	6 ⁴⁴	29 ⁹	6 ²⁸	9 ⁴⁵	9 ²⁸	8 ¹⁴	1 ⁴²	25 ⁴⁸	F 19
S 20	17 51 46	28 ³³ 4'5	6 ¹¹ 48	6 ⁴¹	11 ⁴³	16 ⁵⁷	21 ²⁰	6 ⁴⁵	29 ⁷	6 ²⁹	9 ⁴³	9 ²⁴	8 ¹¹	1 ⁴⁸	25 ⁴⁸	S 20
S 21	17 55 43	29 ³¹ 0'4	19 ¹¹	8 ⁶	12 ⁵⁶	17 ⁴¹	21 ¹⁸	6 ⁴⁷	29 ⁵	6 ³¹	9 ⁴²	9 ²¹	8 ⁸	1 ⁵⁵	25 ⁴⁸	S 21
M 22	17 59 40	0 ⁵ 28'22	1 ¹ 18	9 ³⁵	14 ⁹	18 ²⁵	21 ¹⁶	6 ⁴⁸	29 ³	6 ³³	9 ⁴⁰	9 ^D 21	8 ⁵	2 ¹	25 ⁴⁷	M 22
T 23	18 3 36	1 ²⁵ 3'39	13 ¹³	11 ⁷	15 ²²	19 ⁹	21 ¹³	6 ⁴⁹	29 ¹	6 ³⁵	9 ³⁹	9 ²¹	8 ¹	2 ⁸	25 ⁴⁷	T 23
W 24	18 7 33	2 ²² 2'56	25 ¹²	12 ⁴²	16 ³⁶	19 ⁵²	21 ¹¹	6 ⁵¹	28 ⁵⁹	6 ³⁷	9 ³⁷	9 ²²	7 ⁵⁸	2 ¹⁵	25 ^D 47	W 24
T 25	18 11 29	3 ²⁰ 1'12	6 ¹¹ 50	14 ²⁰	17 ⁴⁹	20 ³⁶	21 ⁸	6 ⁵²	28 ⁵⁷	6 ³⁹	9 ³⁶	9 ^R 23	7 ⁵⁵	2 ²¹	25 ⁴⁷	T 25
F 26	18 15 26	4 ¹⁷ 17'27	18 ⁴²	16 ¹	19 ²	21 ²⁰	21 ⁵	6 ⁵⁴	28 ⁵⁵	6 ⁴¹	9 ³⁴	9 ²³	7 ⁵²	2 ²⁸	25 ⁴⁷	F 26
S 27	18 19 22	5 ¹⁴ 4'1	0 ¹ 42	17 ⁴⁵	20 ¹⁵	22 ³	21 ²	6 ⁵⁶	28 ⁵³	6 ⁴³	9 ³³	9 ²⁰	7 ⁴⁹	2 ³⁵	25 ⁴⁸	S 27
S 28	18 23 19	6 ¹¹ 5'5	12 ⁵²	19 ³¹	21 ²⁸	22 ⁴⁷	20 ⁵⁸	6 ⁵⁷	28 ⁵¹	6 ⁴⁵	9 ³¹	9 ¹⁶	7 ⁴⁶	2 ⁴¹	25 ⁴⁸	S 28
M 29	18 27 15	7 ⁹ 0'9	25 ¹⁷	21 ²¹	22 ⁴²	23 ³⁰	20 ⁵⁵	6 ⁵⁹	28 ⁴⁸	6 ⁴⁷	9 ³⁰	9 ⁹	7 ⁴²	2 ⁴⁸	25 ⁴⁹	M 29
T 30	18 31 12	8 ⁵ 6'22	7 ⁵ 56	23 ¹¹ 13	23 ¹¹ 55	24 ⁸ 14	20 ⁵⁵ 1	7 ¹ 2	28 ⁴ 46	6 ⁴⁹ 49	9 ¹ 29	9 ⁸ 0	7 ⁸ 39	2 ¹¹ 55	25 ⁴⁹ 49	T 30

ASTRODIENST EPHEMERIS for the year 2246

geocentric

JULY 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 35 9	9°35'33"	20°35'11"	25°11'8"	25°11'8"	24°57'57"	20°R47	7°45'4"	28°R44	6°51'51"	9°R27	8°R50	7°36'36"	3°11'1"	25°50'50"	W 1
T 2	18 39 5	10°04'47"	4°00'00"	27°05'5"	26°22'22"	25°40'40"	20°R43	7°06'6"	28°R42	6°53'53"	9°R26	8°R40	7°33'33"	3°08'8"	25°51'51"	T 2
F 3	18 43 2	10°58'00"	17°22'22"	29°05'5"	27°35'35"	26°24'24"	20°39'39"	7°08'8"	28°R40	6°55'55"	9°R25	8°R31	7°30'30"	3°15'15"	25°52'52"	F 3
S 4	18 46 58	11°55'12"	0°55'55"	1°07'7"	28°48'48"	27°07'7"	20°35'35"	7°11'11"	28°37'37"	6°57'57"	9°R23	8°R23	7°26'26"	3°21'21"	25°53'53"	S 4
S 5	18 50 55	12°52'25"	14°39'39"	3°10'10"	0°05'5"	27°50'50"	20°30'30"	7°13'13"	28°35'35"	6°59'59"	9°R22	8°R18	7°23'23"	3°28'28"	25°54'54"	S 5
M 6	18 54 51	13°49'37"	28°31'31"	5°16'16"	1°15'15"	28°33'33"	20°26'26"	7°16'16"	28°33'33"	7°01'1"	9°R21	8°R15	7°20'20"	3°34'34"	25°55'55"	M 6
T 7	18 58 48	14°46'50"	12°V31	7°23'23"	2°28'28"	29°16'16"	20°21'21"	7°18'18"	28°30'30"	7°03'3"	9°R19	8°D14	7°17'17"	3°41'41"	25°57'57"	T 7
W 8	19 2 44	15°44'03"	26°38'38"	9°31'31"	3°42'42"	29°59'59"	20°16'16"	7°21'21"	28°28'28"	7°05'5"	9°R18	8°R14	7°14'14"	3°48'48"	25°58'58"	W 8
T 9	19 6 41	16°41'16"	10°R51	11°41'41"	4°55'55"	0°II42	20°11'11"	7°24'24"	28°26'26"	7°07'7"	9°R17	8°R14	7°11'11"	3°54'54"	26°0'0"	T 9
F 10	19 10 38	17°38'29"	25°09'9"	13°50'50"	6°09'9"	1°24'24"	20°05'5"	7°27'27"	28°23'23"	7°09'9"	9°R16	8°R13	7°07'7"	4°01'1"	26°02'2"	F 10
S 11	19 14 34	18°35'43"	9°II29	16°01'1"	7°22'22"	2°07'7"	20°00'0"	7°30'30"	28°21'21"	7°11'11"	9°R15	8°R10	7°04'4"	4°08'8"	26°04'4"	S 11
S 12	19 18 31	19°32'57"	23°47'47"	18°11'11"	8°36'36"	2°50'50"	19°54'54"	7°33'33"	28°19'19"	7°13'13"	9°R13	8°04'4"	7°01'1"	4°14'14"	26°06'6"	S 12
M13	19 22 27	20°30'12"	7°R58	20°21'21"	9°49'49"	3°32'32"	19°49'49"	7°37'37"	28°16'16"	7°16'16"	9°R12	7°56'56"	6°58'58"	4°21'21"	26°08'8"	M13
T 14	19 26 24	21°27'26"	21°57'57"	22°30'30"	11°03'3"	4°15'15"	19°43'43"	7°40'40"	28°14'14"	7°18'18"	9°R11	7°45'45"	6°55'55"	4°28'28"	26°10'10"	T 14
W15	19 30 20	22°24'41"	5°R41	24°39'39"	12°16'16"	4°57'57"	19°37'37"	7°43'43"	28°11'11"	7°20'20"	9°R10	7°34'34"	6°52'52"	4°34'34"	26°12'12"	W15
T 16	19 34 17	23°21'56"	19°04'4"	26°47'47"	13°30'30"	5°39'39"	19°30'30"	7°47'47"	28°09'9"	7°22'22"	9°09'9"	7°23'23"	6°48'48"	4°41'41"	26°14'14"	T 16
F 17	19 38 13	24°19'10"	2°R6	28°54'54"	14°43'43"	6°22'22"	19°24'24"	7°50'50"	28°07'7"	7°24'24"	9°08'8"	7°12'12"	6°45'45"	4°48'48"	26°17'17"	F 17
S 18	19 42 10	25°16'25"	14°48'48"	0°R59	15°57'57"	7°04'4"	19°18'18"	7°54'54"	28°04'4"	7°26'26"	9°07'7"	7°05'5"	6°42'42"	4°54'54"	26°20'20"	S 18
S 19	19 46 7	26°13'40"	27°10'10"	3°04'4"	17°11'11"	7°46'46"	19°11'11"	7°58'58"	28°02'2"	7°29'29"	9°06'6"	6°59'59"	6°39'39"	5°01'1"	26°22'22"	S 19
M20	19 50 3	27°10'55"	9°R16	5°06'6"	18°24'24"	8°28'28"	19°05'5"	8°02'2"	27°59'59"	7°31'31"	9°05'5"	6°56'56"	6°36'36"	5°08'8"	26°25'25"	M20
T 21	19 54 0	28°08'10"	21°11'11"	7°07'7"	19°38'38"	9°10'10"	18°58'58"	8°06'6"	27°57'57"	7°33'33"	9°04'4"	6°55'55"	6°32'32"	5°14'14"	26°28'28"	T 21
W22	19 57 56	29°05'25"	3°R1	9°07'7"	20°51'51"	9°52'52"	18°51'51"	8°10'10"	27°55'55"	7°35'35"	9°03'3"	6°55'55"	6°29'29"	5°21'21"	26°31'31"	W22
T 23	20 1 53	0°R240	14°49'49"	11°05'5"	22°05'5"	10°33'33"	18°44'44"	8°14'14"	27°52'52"	7°37'37"	9°02'2"	6°55'55"	6°26'26"	5°27'27"	26°34'34"	T 23
F 24	20 5 49	0°59'55"	26°43'3"	13°01'1"	23°19'19"	11°15'15"	18°37'37"	8°18'18"	27°50'50"	7°40'40"	9°02'2"	6°54'54"	6°23'23"	5°34'34"	26°38'38"	F 24
S 25	20 9 46	1°57'11"	8°R47	14°55'55"	24°33'33"	11°57'57"	18°30'30"	8°22'22"	27°47'47"	7°42'42"	9°01'1"	6°50'50"	6°20'20"	5°41'41"	26°41'41"	S 25
S 26	20 13 42	2°54'27"	21°05'5"	16°47'47"	25°46'46"	12°38'38"	18°23'23"	8°27'27"	27°45'45"	7°44'44"	9°00'0"	6°45'45"	6°17'17"	5°47'47"	26°44'44"	S 26
M27	20 17 39	3°51'44"	3°R40	18°38'38"	27°00'0"	13°20'20"	18°16'16"	8°31'31"	27°43'43"	7°46'46"	8°59'59"	6°37'37"	6°13'13"	5°54'54"	26°48'48"	M27
T 28	20 21 36	4°49'00"	16°35'35"	20°27'27"	28°14'14"	14°01'1"	18°08'8"	8°35'35"	27°40'40"	7°49'49"	8°59'59"	6°26'26"	6°10'10"	6°01'1"	26°52'52"	T 28
W29	20 25 32	5°46'18"	29°48'48"	22°14'14"	29°28'28"	14°42'42"	18°01'1"	8°40'40"	27°38'38"	7°51'51"	8°58'58"	6°14'14"	6°07'7"	6°07'7"	26°55'55"	W29
T 30	20 29 29	6°43'35"	13°R20	24°00'0"	0°R41	15°24'24"	17°53'53"	8°45'45"	27°36'36"	7°53'53"	8°57'57"	6°02'2"	6°04'4"	6°14'14"	26°59'59"	T 30
F 31	20 33 25	7°R40'54	27°R7	25°R44	1°R55	16°II5	17°R46	8°R49	27°R33	7°R55	8°R56	5°R51	6°R1	6°R21	27°R3	F 31

Delta T = 215.82 sec

AUGUST 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 22	8♌38'13	11♋ 5	27♏25	3♏ 9	16♐46	17♑R38	8♑54	27♑R31	7♏57	8♑R56	5♑R41	5♏58	6♐27	27♑ 7	S 1
S 2	20 41 18	9°35'33	25°10	29° 6	4°23	17°27	17♊31	8°59	27♒28	8° 0	8♒55	5♏35	5°54	6°34	27°11	S 2
M 3	20 45 15	10°32'54	9♑V19	0♐44	5°37	18° 8	17°23	9° 4	27°26	8° 2	8°55	5°31	5°51	6°41	27°15	M 3
T 4	20 49 11	11°30'16	23°29	2°21	6°51	18°49	17°15	9° 9	27°24	8° 4	8°54	5°29	5°48	6°47	27°20	T 4
W 5	20 53 8	12°27'39	7♒37	3°56	8° 4	19°29	17° 8	9°14	27°21	8° 6	8°54	5°29	5°45	6°54	27°24	W 5
T 6	20 57 5	13°25'03	21°44	5°29	9°18	20°10	17° 0	9°19	27°19	8° 9	8°53	5°29	5°42	7° 0	27°29	T 6
F 7	21 1 1	14°22'29	5♐48	7° 1	10°32	20°51	16°52	9°24	27°17	8°11	8°53	5°27	5°38	7° 7	27°33	F 7
S 8	21 4 58	15°19'56	19°48	8°30	11°46	21°31	16°44	9°29	27°15	8°13	8°52	5°24	5°35	7°14	27°38	S 8
S 9	21 8 54	16°17'24	3♑41	9°58	13° 0	22°12	16°36	9°35	27°12	8°15	8°52	5°18	5°32	7°20	27°43	S 9
M10	21 12 51	17°14'53	17°27	11°25	14°14	22°52	16°29	9°40	27°10	8°17	8°52	5° 9	5°29	7°27	27°48	M10
T 11	21 16 47	18°12'23	1♏ 3	12°49	15°28	23°32	16°21	9°45	27° 8	8°20	8°51	4°58	5°26	7°34	27°53	T 11
W12	21 20 44	19° 9'54	14°25	14°12	16°42	24°12	16°13	9°51	27° 6	8°22	8°51	4°46	5°23	7°40	27°58	W12
T 13	21 24 41	20° 7'27	27°31	15°32	17°57	24°52	16° 5	9°57	27° 4	8°24	8°51	4°34	5°19	7°47	28° 3	T 13
F 14	21 28 37	21° 5'00	10♐21	16°51	19°11	25°32	15°57	10° 2	27° 2	8°26	8°51	4°24	5°16	7°54	28° 8	F 14
S 15	21 32 34	22° 2'34	22°53	18° 8	20°25	26°12	15°50	10° 8	26°59	8°28	8°50	4°15	5°13	8° 0	28°13	S 15
S 16	21 36 30	23° 0'09	5♑ 9	19°23	21°39	26°52	15°42	10°14	26°57	8°31	8°50	4° 9	5°10	8° 7	28°19	S 16
M17	21 40 27	23°57'45	17°13	20°36	22°53	27°32	15°34	10°19	26°55	8°33	8°50	4° 6	5° 7	8°14	28°24	M17
T 18	21 44 23	24°55'22	29° 6	21°47	24° 7	28°11	15°27	10°25	26°53	8°35	8°50	4°D 4	5° 4	8°20	28°30	T 18
W19	21 48 20	25°53'00	10♐55	22°55	25°21	28°51	15°19	10°31	26°51	8°37	8°50	4° 4	5° 0	8°27	28°35	W19
T 20	21 52 16	26°50'39	22°43	24° 1	26°35	29°30	15°11	10°37	26°49	8°39	8°D50	4°R 5	4°57	8°34	28°41	T 20
F 21	21 56 13	27°48'19	4♒37	25° 5	27°50	0♑10	15° 4	10°43	26°47	8°41	8°50	4° 5	4°54	8°40	28°47	F 21
S 22	22 0 9	28°46'00	16°42	26° 6	29° 4	0°49	14°57	10°49	26°45	8°43	8°50	4° 3	4°51	8°47	28°53	S 22
S 23	22 4 6	29°43'43	29° 2	27° 5	0♐18	1°28	14°49	10°55	26°43	8°46	8°50	3°59	4°48	8°53	28°59	S 23
M24	22 8 3	0♐41'26	11♒43	28° 1	1°32	2° 7	14°42	11° 2	26°42	8°48	8°50	3°53	4°44	9° 0	29° 5	M24
T 25	22 11 59	1°39'10	24°46	28°54	2°47	2°46	14°35	11° 8	26°40	8°50	8°51	3°45	4°41	9° 7	29°11	T 25
W26	22 15 56	2°36'56	8♊12	29°44	4° 1	3°25	14°28	11°14	26°38	8°52	8°51	3°36	4°38	9°13	29°17	W26
T 27	22 19 52	3°34'42	22° 1	0♑30	5°15	4° 3	14°21	11°20	26°36	8°54	8°51	3°26	4°35	9°20	29°23	T 27
F 28	22 23 49	4°32'31	6♐10	1°13	6°29	4°42	14°14	11°27	26°34	8°56	8°51	3°17	4°32	9°27	29°30	F 28
S 29	22 27 45	5°30'20	20°33	1°53	7°44	5°21	14° 7	11°33	26°33	8°58	8°51	3° 9	4°29	9°33	29°36	S 29
S 30	22 31 42	6°28'11	5♑ 3	2°28	8°58	5°59	14° 0	11°40	26°31	9° 0	8°52	3° 4	4°25	9°40	29°42	S 30
M31	22 35 38	7♐26'04	19♑36	3♑ 0	10♐12	6♑37	13°~54	11♑46	26♒29	9♏ 2	8♒52	3♏ 1	4♑22	9♐47	29♑49	M31

ASTRODIENST EPHEMERIS for the year 2246

geocentric

SEPTEMBER 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 35	8♉23'58	4♈ 5	3♉27	11♉27	7♉16	13°R47	11♉53	26°R28	9♉ 4	8♉53	3°D 1	4♈19	9♉53	29♉55	T 1
W 2	22 43 32	9°21'54	18°27	3°49	12°41	7°54	13°R41	11°59	26°R26	9° 6	8°53	3♈ 1	4°16	10° 0	0♉ 2	W 2
T 3	22 47 28	10°19'52	2♉39	4° 7	13°55	8°32	13°35	12° 6	26°25	9° 8	8°53	3° 2	4°13	10° 7	0° 9	T 3
F 4	22 51 25	11°17'52	16°40	4°19	15°10	9°10	13°29	12°12	26°23	9°10	8°54	3°R 2	4°10	10°13	0°16	F 4
S 5	22 55 21	12°15'54	0♉28	4°26	16°24	9°48	13°23	12°19	26°22	9°12	8°54	3° 1	4° 6	10°20	0°22	S 5
S 6	22 59 18	13°13'58	14° 5	4°R27	17°39	10°25	13°17	12°26	26°20	9°14	8°55	2°57	4° 3	10°26	0°29	S 6
M 7	23 3 14	14°12'04	27°30	4°23	18°53	11° 3	13°11	12°33	26°19	9°16	8°56	2°51	4° 0	10°33	0°36	M 7
T 8	23 7 11	15°10'12	10♉42	4°12	20° 7	11°40	13° 6	12°39	26°18	9°18	8°56	2°44	3°57	10°40	0°43	T 8
W 9	23 11 7	16° 8'21	23°41	3°55	21°22	12°18	13° 0	12°46	26°16	9°19	8°57	2°36	3°54	10°46	0°50	W 9
T 10	23 15 4	17° 6'32	6♉26	3°31	22°36	12°55	12°55	12°53	26°15	9°21	8°58	2°28	3°50	10°53	0°58	T 10
F 11	23 19 1	18° 4'45	18°59	3° 1	23°51	13°32	12°50	13° 0	26°14	9°23	8°58	2°21	3°47	11° 0	1° 5	F 11
S 12	23 22 57	19° 3'00	1♉18	2°25	25° 5	14° 9	12°45	13° 7	26°13	9°25	8°59	2°15	3°44	11° 6	1°12	S 12
S 13	23 26 54	20° 1'16	13°25	1°43	26°20	14°46	12°40	13°14	26°12	9°27	9° 0	2°11	3°41	11°13	1°19	S 13
M14	23 30 50	20°59'34	25°23	0°56	27°34	15°23	12°36	13°21	26°11	9°28	9° 1	2° 9	3°38	11°20	1°27	M14
T 15	23 34 47	21°57'53	7♉13	0° 3	28°49	15°59	12°31	13°28	26°10	9°30	9° 1	2°D 9	3°35	11°26	1°34	T 15
W16	23 38 43	22°56'15	19° 0	29♉ 7	0♉ 3	16°36	12°27	13°35	26° 9	9°32	9° 2	2°10	3°31	11°33	1°42	W16
T 17	23 42 40	23°54'37	0♉48	28° 8	1°18	17°12	12°23	13°42	26° 8	9°34	9° 3	2°12	3°28	11°40	1°49	T 17
F 18	23 46 36	24°53'02	12°41	27° 6	2°32	17°49	12°19	13°49	26° 7	9°35	9° 4	2°13	3°25	11°46	1°57	F 18
S 19	23 50 33	25°51'28	24°44	26° 4	3°47	18°25	12°15	13°56	26° 6	9°37	9° 5	2°R14	3°22	11°53	2° 4	S 19
S 20	23 54 30	26°49'56	7♈ 3	25° 3	5° 1	19° 1	12°11	14° 3	26° 5	9°39	9° 6	2°13	3°19	12° 0	2°12	S 20
M21	23 58 26	27°48'25	19°42	24° 4	6°16	19°37	12° 8	14°11	26° 4	9°40	9° 7	2°11	3°15	12° 6	2°20	M21
T 22	0 2 23	28°46'56	2♉45	23° 9	7°30	20°12	12° 5	14°18	26° 4	9°42	9° 8	2° 8	3°12	12°13	2°27	T 22
W23	0 6 19	29°45'28	16°14	22°20	8°45	20°48	12° 2	14°25	26° 3	9°43	9° 9	2° 3	3° 9	12°19	2°35	W23
T 24	0 10 16	0♉44'03	0♉10	21°36	9°59	21°23	11°59	14°32	26° 2	9°45	9°11	1°59	3° 6	12°26	2°43	T 24
F 25	0 14 12	1°42'38	14°30	21° 1	11°14	21°59	11°56	14°39	26° 2	9°47	9°12	1°54	3° 3	12°33	2°51	F 25
S 26	0 18 9	2°41'16	29° 9	20°34	12°29	22°34	11°54	14°47	26° 1	9°48	9°13	1°50	3° 0	12°39	2°59	S 26
S 27	0 22 5	3°39'56	14°Y 1	20°16	13°43	23° 9	11°52	14°54	26° 1	9°50	9°14	1°48	2°56	12°46	3° 7	S 27
M28	0 26 2	4°38'37	28°57	20°D 8	14°58	23°44	11°49	15° 1	26° 1	9°51	9°15	1°D47	2°53	12°53	3°15	M28
T 29	0 29 59	5°37'21	13♈51	20° 9	16°12	24°19	11°48	15° 9	26° 0	9°52	9°17	1°48	2°50	12°59	3°23	T 29
W30	0 33 55	6♉36'07	28♈33	20♉21	17♉27	24♉53	11♉46	15♉16	26°R 0	9♉54	9♉18	1♈49	2♈47	13♉ 6	3♉31	W30

Delta T = 216.04 sec

OCTOBER 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 37 52	7♉34'55	13♉ 1	20♉43	18♉41	25♉28	11°R44	15♉23	26°R 0	9♉55	9♉19	1♈50	2♈44	13♉13	3♉39	T 1
F 2	0 41 48	8°33'46	27°10	21°14	19°56	26° 2	11°R43	15°31	25°R59	9°57	9°21	1°51	2°41	13°19	3°47	F 2
S 3	0 45 45	9°32'38	10♉59	21°54	21°11	26°36	11°42	15°38	25°59	9°58	9°22	1°R52	2°37	13°26	3°55	S 3
S 4	0 49 41	10°31'34	24°29	22°43	22°25	27°10	11°41	15°45	25°59	9°59	9°23	1°51	2°34	13°33	4° 4	S 4
M 5	0 53 38	11°30'31	7♉41	23°40	23°40	27°44	11°40	15°53	25°59	10° 0	9°25	1°49	2°31	13°39	4°12	M 5
T 6	0 57 34	12°29'31	20°36	24°44	24°54	28°18	11°40	16° 0	25°D59	10° 2	9°26	1°47	2°28	13°46	4°20	T 6
W 7	1 1 31	13°28'32	3♉16	25°55	26° 9	28°52	11°40	16° 7	25°59	10° 3	9°28	1°44	2°25	13°52	4°28	W 7
T 8	1 5 28	14°27'36	15°43	27°11	27°24	29°25	11°D39	16°15	25°59	10° 4	9°29	1°41	2°21	13°59	4°37	T 8
F 9	1 9 24	15°26'42	27°58	28°33	28°38	29°58	11°39	16°22	25°59	10° 5	9°31	1°39	2°18	14° 6	4°45	F 9
S 10	1 13 21	16°25'51	10♉ 4	29°59	29°53	0♉31	11°40	16°29	26° 0	10° 6	9°33	1°37	2°15	14°12	4°53	S 10
S 11	1 17 17	17°25'01	22° 2	1♉29	1♉ 7	1° 4	11°40	16°37	26° 0	10° 8	9°34	1°36	2°12	14°19	5° 2	S 11
M12	1 21 14	18°24'13	3♉54	3° 2	2°22	1°37	11°41	16°44	26° 0	10° 9	9°36	1°D36	2° 9	14°26	5°10	M12
T 13	1 25 10	19°23'27	15°41	4°38	3°37	2° 9	11°42	16°52	26° 0	10°10	9°37	1°37	2° 6	14°32	5°19	T 13
W14	1 29 7	20°22'44	27°28	6°16	4°51	2°42	11°43	16°59	26° 1	10°11	9°39	1°37	2° 2	14°39	5°27	W14
T 15	1 33 3	21°22'02	9♉16	7°55	6° 6	3°14	11°44	17° 6	26° 1	10°12	9°41	1°38	1°59	14°46	5°36	T 15
F 16	1 37 0	22°21'22	21°10	9°36	7°20	3°46	11°46	17°14	26° 2	10°13	9°43	1°39	1°56	14°52	5°44	F 16
S 17	1 40 57	23°20'44	3♈13	11°18	8°35	4°18	11°47	17°21	26° 2	10°13	9°44	1°40	1°53	14°59	5°53	S 17
S 18	1 44 53	24°20'07	15°30	13° 1	9°50	4°49	11°49	17°28	26° 3	10°14	9°46	1°41	1°50	15° 6	6° 1	S 18
M19	1 48 50	25°19'33	28° 5	14°45	11° 4	5°21	11°51	17°36	26° 4	10°15	9°48	1°R41	1°47	15°12	6°10	M19
T 20	1 52 46	26°19'00	11♉ 2	16°28	12°19	5°52	11°53	17°43	26° 4	10°16	9°50	1°41	1°43	15°19	6°18	T 20
W21	1 56 43	27°18'28	24°24	18°12	13°34	6°23	11°56	17°50	26° 5	10°17	9°52	1°40	1°40	15°26	6°27	W21
T 22	2 0 39	28°17'59	8♉14	19°56	14°48	6°53	11°59	17°58	26° 6	10°18	9°53	1°40	1°37	15°32	6°35	T 22
F 23	2 4 36	29°17'31	22°30	21°39	16° 3	7°24	12° 1	18° 5	26° 7	10°18	9°55	1°40	1°34	15°39	6°44	F 23
S 24	2 8 32	0♉17'05	7°Y11	23°22	17°17	7°54	12° 4	18°12	26° 8	10°19	9°57	1°39	1°31	15°46	6°53	S 24
S 25	2 12 29	1°16'41	22°11	25° 5	18°32	8°24	12° 8	18°19	26° 9	10°20	9°59	1°39	1°27	15°52	7° 1	S 25
M26	2 16 25	2°16'19	7♈21	26°48	19°46	8°54	12°11	18°27	26°10	10°20	10° 1	1°39	1°24	15°59	7°10	M26
T 27	2 20 22	3°15'59	22°33	28°30	21° 1	9°24	12°15	18°34	26°11	10°21	10° 3	1°39	1°21	16° 5	7°19	T 27
W28	2 24 19	4°15'41	7♉36	0♉12	22°16	9°53	12°18	18°41	26°12	10°21	10° 5	1°39	1°18	16°12	7°27	W28
T 29	2 28 15	5°15'25	22°23	1°53	23°30	10°23	12°22	18°48	26°13	10°22	10° 7	1°39	1°15	16°19	7°36	T 29
F 30	2 32 12	6°15'11	6♉48	3°34	24°45	10°52	12°26	18°56	26°14	10°22	10° 9	1°38	1°12	16°25	7°44	F 30
S 31	2 36 8	7♉15'00	20♉48	5♉14	25♉59	11♉20	12°R31	19♉ 3	26°R15	10♉23	10♉11	1♈38	1♈ 8	16♉32	7♉53	S 31

Delta T = 216.15 sec

ASTRODIENST EPHEMERIS for the year 2246

geocentric

NOVEMBER 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 5	8♈14'51	4♏21	6♈54	27♈14	11♏49	12♈35	19♏10	26♈17	10♏23	10♈13	1°D38	1♈5	16♈39	8♈2	S 1
M 2	2 44 1	9°14'44	17°31	8°33	28°29	12°17	12°40	19°17	26°18	10°24	10°15	1♈38	1°2	16°45	8°10	M 2
T 3	2 47 58	10°14'39	0♈18	10°12	29°43	12°45	12°45	19°24	26°19	10°24	10°17	1°38	0°59	16°52	8°19	T 3
W 4	2 51 55	11°14'37	12°47	11°50	0♈58	13°13	12°50	19°31	26°21	10°24	10°19	1°39	0°56	16°59	8°28	W 4
T 5	2 55 51	12°14'36	25°2	13°28	2°12	13°40	12°55	19°38	26°22	10°25	10°22	1°40	0°53	17°5	8°36	T 5
F 6	2 59 48	13°14'38	7♈5	15°6	3°27	14°7	13°0	19°45	26°24	10°25	10°24	1°41	0°49	17°12	8°45	F 6
S 7	3 3 44	14°14'41	19°1	16°42	4°42	14°34	13°6	19°52	26°25	10°25	10°26	1°42	0°46	17°19	8°53	S 7
S 8	3 7 41	15°14'47	0♈51	18°19	5°56	15°1	13°12	19°59	26°27	10°25	10°28	1°R42	0°43	17°25	9°2	S 8
M 9	3 11 37	16°14'54	12°39	19°55	7°11	15°27	13°18	20°6	26°29	10°26	10°30	1°42	0°40	17°32	9°11	M 9
T 10	3 15 34	17°15'04	24°26	21°30	8°25	15°53	13°24	20°13	26°30	10°26	10°32	1°41	0°37	17°39	9°19	T 10
W 11	3 19 30	18°15'15	6♈15	23°5	9°40	16°19	13°30	20°19	26°32	10°26	10°35	1°39	0°33	17°45	9°28	W 11
T 12	3 23 27	19°15'28	18°9	24°40	10°54	16°44	13°36	20°26	26°34	10°26	10°37	1°36	0°30	17°52	9°36	T 12
F 13	3 27 24	20°15'42	0♈8	26°15	12°9	17°9	13°43	20°33	26°36	10°R26	10°39	1°33	0°27	17°59	9°45	F 13
S 14	3 31 20	21°15'58	12°16	27°49	13°24	17°34	13°50	20°40	26°38	10°26	10°41	1°30	0°24	18°5	9°54	S 14
S 15	3 35 17	22°16'16	24°35	29°22	14°38	17°59	13°57	20°46	26°40	10°26	10°43	1°27	0°21	18°12	10°2	S 15
M 16	3 39 13	23°16'35	7♈9	0♈56	15°53	18°23	14°4	20°53	26°42	10°26	10°46	1°25	0°18	18°18	10°11	M 16
T 17	3 43 10	24°16'56	20°1	2°29	17°7	18°46	14°11	21°0	26°44	10°26	10°48	1°D24	0°14	18°25	10°19	T 17
W 18	3 47 6	25°17'18	3♈15	4°2	18°22	19°10	14°18	21°6	26°46	10°25	10°50	1°25	0°11	18°32	10°28	W 18
T 19	3 51 3	26°17'41	16°52	5°34	19°36	19°33	14°26	21°13	26°48	10°25	10°53	1°26	0°8	18°38	10°36	T 19
F 20	3 54 59	27°18'05	0♈55	7°6	20°51	19°55	14°33	21°19	26°50	10°25	10°55	1°27	0°5	18°45	10°44	F 20
S 21	3 58 56	28°18'31	15°22	8°38	22°5	20°18	14°41	21°26	26°52	10°25	10°57	1°29	0°2	18°52	10°53	S 21
S 22	4 2 53	29°18'58	0♈12	10°10	23°20	20°40	14°49	21°32	26°55	10°24	10°59	1°R29	29°Y58	18°58	11°1	S 22
M 23	4 6 49	0♈19'27	15°18	11°41	24°34	21°1	14°57	21°38	26°57	10°24	11°2	1°29	29°55	19°5	11°9	M 23
T 24	4 10 46	1°19'57	0♈32	13°13	25°49	21°22	15°6	21°44	26°59	10°24	11°4	1°27	29°52	19°12	11°18	T 24
W 25	4 14 42	2°20'29	15°44	14°43	27°3	21°43	15°14	21°51	27°2	10°23	11°6	1°23	29°49	19°18	11°26	W 25
T 26	4 18 39	3°21'02	0♈44	16°14	28°18	22°3	15°22	21°57	27°4	10°23	11°9	1°18	29°46	19°25	11°34	T 26
F 27	4 22 35	4°21'37	15°24	17°44	29°32	22°23	15°31	22°3	27°7	10°22	11°11	1°13	29°43	19°32	11°43	F 27
S 28	4 26 32	5°22'13	29°37	19°15	0♈47	22°43	15°40	22°9	27°9	10°22	11°13	1°9	29°39	19°38	11°51	S 28
S 29	4 30 28	6°22'52	13♏21	20°44	2°1	23°2	15°49	22°15	27°12	10°21	11°16	1°5	29°36	19°45	11°59	S 29
M 30	4 34 25	7♈23'31	26♏36	22♈14	3♈16	23♏21	15♈58	22♈21	27♈14	10♏21	11♈18	1♈3	29°Y33	19♈52	12♈7	M 30

Delta T = 216.26 sec

DECEMBER 2246

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 38 22	8♈24'13	9♈25	23♈43	4♈30	23♏39	16♈7	22♈27	27♈17	10°R20	11♈21	1°D2	29°Y30	19♈58	12♈15	T 1
W 2	4 42 18	9°24'56	21°52	25°11	5°44	23°56	16°16	22°33	27°19	10°R20	11°23	1♈3	29°27	20°5	12°23	W 2
T 3	4 46 15	10°25'40	4♈2	26°39	6°59	24°14	16°26	22°38	27°22	10°19	11°25	1°4	29°24	20°12	12°31	T 3
F 4	4 50 11	11°26'26	16°0	28°7	8°13	24°30	16°36	22°44	27°25	10°18	11°28	1°6	29°20	20°18	12°39	F 4
S 5	4 54 8	12°27'14	27°50	29°34	9°28	24°46	16°45	22°50	27°27	10°18	11°30	1°R7	29°17	20°25	12°47	S 5
S 6	4 58 4	13°28'02	9♈36	1♈0	10°42	25°2	16°55	22°55	27°30	10°17	11°32	1°7	29°14	20°32	12°55	S 6
M 7	5 2 1	14°28'53	21°23	2°25	11°56	25°17	17°5	23°1	27°33	10°16	11°35	1°4	29°11	20°38	13°3	M 7
T 8	5 5 57	15°29'44	3♈13	3°50	13°11	25°32	17°15	23°6	27°36	10°15	11°37	1°0	29°8	20°45	13°11	T 8
W 9	5 9 54	16°30'37	15°8	5°13	14°25	25°46	17°25	23°12	27°39	10°15	11°39	0°53	29°4	20°52	13°18	W 9
T 10	5 13 51	17°31'31	27°10	6°35	15°40	26°0	17°36	23°17	27°42	10°14	11°42	0°45	29°1	20°58	13°26	T 10
F 11	5 17 47	18°32'26	9♈21	7°56	16°54	26°13	17°46	23°22	27°44	10°13	11°44	0°35	28°58	21°5	13°34	F 11
S 12	5 21 44	19°33'22	21°40	9°15	18°8	26°25	17°57	23°27	27°47	10°12	11°46	0°26	28°55	21°11	13°41	S 12
S 13	5 25 40	20°34'18	4♈11	10°32	19°22	26°37	18°7	23°32	27°50	10°11	11°49	0°17	28°52	21°18	13°49	S 13
M 14	5 29 37	21°35'16	16°53	11°46	20°37	26°48	18°18	23°37	27°53	10°10	11°51	0°10	28°49	21°25	13°57	M 14
T 15	5 33 33	22°36'14	29°49	12°58	21°51	26°58	18°29	23°42	27°56	10°9	11°53	0°5	28°45	21°31	14°4	T 15
W 16	5 37 30	23°37'12	13♈0	14°7	23°5	27°8	18°40	23°47	27°59	10°8	11°56	0°2	28°42	21°38	14°11	W 16
T 17	5 41 26	24°38'12	26°29	15°12	24°19	27°18	18°51	23°52	28°3	10°7	11°58	0°D2	28°39	21°45	14°19	T 17
F 18	5 45 23	25°39'11	10°Y18	16°12	25°34	27°26	19°2	23°57	28°6	10°6	12°0	0°2	28°36	21°51	14°26	F 18
S 19	5 49 20	26°40'11	24°27	17°8	26°48	27°34	19°14	24°1	28°9	10°5	12°3	0°R3	28°33	21°58	14°33	S 19
S 20	5 53 16	27°41'12	8♈57	17°59	28°2	27°42	19°25	24°6	28°12	10°4	12°5	0°3	28°30	22°5	14°40	S 20
M 21	5 57 13	28°42'13	23°43	18°43	29°16	27°48	19°36	24°10	28°15	10°2	12°7	0°1	28°26	22°11	14°48	M 21
T 22	6 1 9	29°43'15	8♈11	19°20	0♈30	27°54	19°48	24°15	28°18	10°1	12°9	29°Y56	28°23	22°18	14°55	T 22
W 23	6 5 6	0♈44'17	23°42	19°49	1°44	28°0	20°0	24°19	28°22	10°0	12°12	29°49	28°20	22°25	15°2	W 23
T 24	6 9 2	1°45'20	8♈38	20°9	2°58	28°4	20°11	24°23	28°25	9°59	12°14	29°39	28°17	22°31	15°9	T 24
F 25	6 12 59	2°46'23	23°19	20°R20	4°12	28°8	20°23	24°28	28°28	9°58	12°16	29°29	28°14	22°38	15°15	F 25
S 26	6 16 56	3°47'27	7♈37	20°20	5°26	28°11	20°35	24°32	28°31	9°56	12°18	29°19	28°11	22°45	15°22	S 26
S 27	6 20 52	4°48'32	21°29	20°8	6°40	28°14	20°47	24°36	28°35	9°55	12°21	29°10	28°7	22°51	15°29	S 27
M 28	6 24 49	5°49'37	4♈51	19°45	7°54	28°15	20°59	24°40	28°38	9°54	12°23	29°3	28°4	22°58	15°36	M 28
T 29	6 28 45	6°50'43	17°46	19°10	9°8	28°16	21°11	24°43	28°41	9°52	12°25	28°59	28°1	23°5	15°42	T 29
W 30	6 32 42	7°51'50	0♈17	18°24	10°22	28°R16	21°24	24°47	28°45	9°51	12°27	28°57	27°58	23°11	15°49	W 30
T 31	6 36 38	8♈52'57	12♈28	17♈27	11♈36	28♈16	21♈36	24♈51	28♈48	9♈50	12♈29	28°D57	27°Y55	23♈18	15♈55	T 31

Delta T = 216.36 sec