



Astrodienst Ephemeris Tables for the year 1460

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 1460
geocentric

JANUARY 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 14 32	19°09'	9°59'	9°28'	14°39'	4°13'	28°12'	12°24'	3°R14	19°50'	20°R31	7°45'	8°47'	11°53'	14°6'	T 1
W 2	7 18 29	20°10'15	23°39'	11° 2'	15°54'	5° 0'	28°18'	12°31'	3°12'	19°50'	20°R30	7°R46	8°43'	11°59'	14° 8'	W 2
T 3	7 22 25	21°11'20	7°41'	12°38'	17°10'	5°47'	28°24'	12°38'	3°10'	19°50'	20°28'	7°45'	8°40'	12° 6'	14°10'	T 3
F 4	7 26 22	22°12'24	22° 2'	14°14'	18°25'	6°35'	28°30'	12°45'	3° 8'	19°51'	20°27'	7°44'	8°37'	12°13'	14°12'	F 4
S 5	7 30 18	23°13'27	6°11'41	15°50'	19°41'	7°22'	28°35'	12°52'	3° 7'	19°51'	20°26'	7°42'	8°34'	12°19'	14°14'	S 5
S 6	7 34 15	24°14'30	21°32'	17°27'	20°56'	8° 9'	28°41'	12°59'	3° 5'	19°51'	20°25'	7°40'	8°31'	12°26'	14°16'	S 6
M 7	7 38 12	25°15'31	6°28'28	19° 5'	22°11'	8°57'	28°46'	13° 6'	3° 3'	19°51'	20°23'	7°38'	8°27'	12°33'	14°17'	M 7
T 8	7 42 8	26°16'32	21°21'	20°43'	23°27'	9°44'	28°51'	13°13'	3° 1'	19°52'	20°22'	7°37'	8°24'	12°39'	14°19'	T 8
W 9	7 46 5	27°17'31	6°12' 3	22°22'	24°42'	10°32'	28°56'	13°20'	2°59'	19°52'	20°21'	7°D37	8°21'	12°46'	14°20'	W 9
T 10	7 50 1	28°18'30	20°27'	24° 1'	25°57'	11°19'	29° 1'	13°27'	2°57'	19°52'	20°19'	7°37'	8°18'	12°53'	14°21'	T 10
F 11	7 53 58	29°19'28	4°17'27	25°42'	27°13'	12° 7'	29° 6'	13°34'	2°55'	19°52'	20°18'	7°38'	8°15'	13° 0'	14°22'	F 11
S 12	7 57 54	0°20'25	18° 3'	27°22'	28°28'	12°54'	29°10'	13°40'	2°53'	19°R52	20°17'	7°39'	8°12'	13° 6'	14°23'	S 12
S 13	8 1 51	1°21'21	1°12'13	29° 4'	29°43'	13°42'	29°15'	13°47'	2°51'	19°52'	20°15'	7°39'	8° 8'	13°13'	14°24'	S 13
M14	8 5 47	2°22'17	14° 0'	0°46'00	0°59'00	14°29'	29°19'	13°54'	2°49'	19°52'	20°14'	7°40'	8° 5'	13°20'	14°25'	M14
T 15	8 9 44	3°23'12	26°26'	2°29'	2°14'	15°16'	29°23'	14° 1'	2°47'	19°52'	20°12'	7°40'	8° 2'	13°26'	14°25'	T 15
W16	8 13 41	4°24'06	8°13'37	4°12'	3°29'	16° 4'	29°27'	14° 8'	2°45'	19°52'	20°11'	7°R40	7°59'	13°33'	14°26'	W16
T 17	8 17 37	5°24'59	20°36'	5°56'	4°45'	16°51'	29°31'	14°15'	2°42'	19°52'	20° 9'	7°40'	7°56'	13°40'	14°26'	T 17
F 18	8 21 34	6°25'51	2°17'28	7°41'	6° 0'	17°39'	29°34'	14°21'	2°40'	19°51'	20° 8'	7°40'	7°52'	13°46'	14°26'	F 18
S 19	8 25 30	7°26'43	14°18'	9°27'	7°15'	18°26'	29°37'	14°28'	2°38'	19°51'	20° 7'	7°D40	7°49'	13°53'	14°R26	S 19
S 20	8 29 27	8°27'33	26°10'	11°13'	8°31'	19°14'	29°40'	14°35'	2°36'	19°51'	20° 5'	7°40'	7°46'	14° 0'	14°26'	S 20
M21	8 33 23	9°28'23	8°32' 6	13° 0'	9°46'	20° 1'	29°43'	14°41'	2°33'	19°51'	20° 4'	7°40'	7°43'	14° 7'	14°26'	M21
T 22	8 37 20	10°29'11	20°12'	14°48'	11° 1'	20°49'	29°46'	14°48'	2°31'	19°50'	20° 2'	7°40'	7°40'	14°13'	14°26'	T 22
W23	8 41 16	11°29'58	2°27'27	16°36'	12°16'	21°36'	29°49'	14°55'	2°29'	19°50'	20° 1'	7°R40	7°37'	14°20'	14°26'	W23
T 24	8 45 13	12°30'44	14°54'	18°24'	13°32'	22°24'	29°51'	15° 1'	2°26'	19°50'	19°59'	7°40'	7°33'	14°27'	14°25'	T 24
F 25	8 49 10	13°31'29	27°35'	20°13'	14°47'	23°11'	29°53'	15° 8'	2°24'	19°49'	19°58'	7°40'	7°30'	14°33'	14°25'	F 25
S 26	8 53 6	14°32'12	10°17'29	22° 3'	16° 2'	23°58'	29°55'	15°14'	2°21'	19°49'	19°56'	7°39'	7°27'	14°40'	14°24'	S 26
S 27	8 57 3	15°32'53	23°36'	23°52'	17°17'	24°46'	29°57'	15°21'	2°19'	19°48'	19°55'	7°38'	7°24'	14°47'	14°23'	S 27
M28	9 0 59	16°33'33	6°17'57	25°42'	18°32'	25°33'	29°59'	15°27'	2°16'	19°48'	19°53'	7°37'	7°21'	14°53'	14°22'	M28
T 29	9 4 56	17°34'11	20°31'	27°31'	19°48'	26°21'	0°11' 0	15°33'	2°14'	19°47'	19°52'	7°36'	7°18'	15° 0'	14°21'	T 29
W30	9 8 52	18°34'47	4°17'17	29°20'	21° 3'	27° 8'	0° 2'	15°40'	2°11'	19°47'	19°50'	7°35'	7°14'	15° 7'	14°20'	W30
T 31	9 12 49	19°35'22	18°15'15	1°17' 9	22°18'18	27°55'55	0°11' 3	15°34'46	2°11' 9	19°46'46	19°49'49	7°D35	7°11'11	15°14'14	14°19'19	T 31

Delta T = 06m11s

Julian Calendar 1 Jan. 1460 == Greg. Calendar 10 Jan. 1460

FEBRUARY 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 16 45	20°35'54	2°11'25	2°17'57	23°33'33	28°43'43	0°11' 4	15°35'52	2°R 6	19°R46	19°R47	7°43'35	7°43' 8	15°27'20	14°R17	F 1
S 2	9 20 42	21°36'25	16°43'	4°43'	24°48'	29°30'	0° 5'	15°59'	2°11' 4	19°45'45	19°46'46	7°36'	7° 5'	15°27'	14°16'16	S 2
S 3	9 24 39	22°36'54	1°17' 7	6°28'	26° 3'	0°11'17	0° 5'	16° 5'	2° 1'	19°44'	19°44'	7°37'	7° 2'	15°34'	14°14'	S 3
M 4	9 28 35	23°37'21	15°34'	8°11'	27°18'	1° 5'	0° 5'	16°11'	1°59'	19°44'	19°43'	7°38'	6°58'	15°40'	14°12'	M 4
T 5	9 32 32	24°37'47	29°59'	9°52'	28°33'	1°52'	0°R 6	16°17'	1°56'	19°43'	19°41'	7°39'	6°55'	15°47'	14°10'	T 5
W 6	9 36 28	25°38'10	14°12'18	11°30'	29°48'	2°39'	0° 6'	16°23'	1°53'	19°42'	19°40'	7°R39	6°52'	15°54'	14° 8'	W 6
T 7	9 40 25	26°38'32	28°25'	13° 5'	1°17' 3	3°26'	0° 5'	16°29'	1°51'	19°41'	19°38'	7°38'	6°49'	16° 0'	14° 6'	T 7
F 8	9 44 21	27°38'52	12°17'15	14°35'	2°18'	4°14'	0° 5'	16°35'	1°48'	19°40'	19°37'	7°36'	6°46'	16° 7'	14° 4'	F 8
S 9	9 48 18	28°39'10	25°47'	16° 1'	3°33'	5° 1'	0° 4'	16°41'	1°46'	19°39'	19°35'	7°33'	6°43'	16°14'	14° 2'	S 9
S 10	9 52 14	29°39'27	8°12'57	17°21'	4°48'	5°48'	0° 4'	16°47'	1°43'	19°39'	19°34'	7°30'	6°39'	16°20'	14° 0'	S 10
M11	9 56 11	0°17'39	21°47'	18°36'	6° 3'	6°35'	0° 3'	16°52'	1°40'	19°38'	19°33'	7°26'	6°36'	16°27'	13°57'	M11
T 12	10 0 8	1°39'56	4°11'17	19°44'	7°18'	7°22'	0° 2'	16°58'	1°38'	19°37'	19°31'	7°23'	6°33'	16°34'	13°55'	T 12
W13	10 4 4	2°40'08	16°31'	20°46'	8°33'	8°10'	0° 0'	17° 4'	1°35'	19°36'	19°30'	7°21'	6°30'	16°41'	13°52'	W13
T 14	10 8 1	3°40'18	28°32'	21°39'	9°48'	8°57'	29°45'59	17° 9'	1°32'	19°35'	19°28'	7°D20	6°27'	16°47'	13°49'	T 14
F 15	10 11 57	4°40'27	10°17'26	22°25'	11° 3'	9°44'	29°57'	17°15'	1°30'	19°34'	19°27'	7°20'	6°24'	16°54'	13°46'	F 15
S 16	10 15 54	5°40'34	22°16'	23° 2'	12°18'	10°31'	29°55'	17°20'	1°27'	19°33'	19°25'	7°21'	6°20'	17° 1'	13°43'	S 16
S 17	10 19 50	6°40'40	4°17' 8	23°30'	13°33'	11°18'	29°53'	17°26'	1°25'	19°32'	19°24'	7°23'	6°17'	17° 7'	13°40'	S 17
M18	10 23 47	7°40'44	16° 7'	23°49'	14°48'	12° 5'	29°51'	17°31'	1°22'	19°30'	19°23'	7°25'	6°14'	17°14'	13°37'	M18
T 19	10 27 43	8°40'47	28°17'	23°59'	16° 2'	12°52'	29°48'	17°36'	1°19'	19°29'	19°21'	7°26'	6°11'	17°21'	13°34'	T 19
W20	10 31 40	9°40'48	10°12'42	24°R 0	17°17'	13°39'	29°46'	17°42'	1°17'	19°28'	19°20'	7°R26	6° 8'	17°27'	13°31'	W20
T 21	10 35 37	10°40'46	23°23'	23°51'	18°32'	14°26'	29°43'	17°47'	1°14'	19°27'	19°18'	7°25'	6° 4'	17°34'	13°27'	T 21
F 22	10 39 33	11°40'43	6°17'22	23°35'	19°47'	15°13'	29°40'	17°52'	1°12'	19°26'	19°17'	7°22'	6° 1'	17°41'	13°24'	F 22
S 23	10 43 30	12°40'38	19°40'	23°10'	21° 1'	16° 0'	29°37'	17°57'	1° 9'	19°25'	19°16'	7°18'	5°58'	17°47'	13°20'	S 23
S 24	10 47 26	13°40'31	3°17'14	22°37'	22°16'	16°47'	29°33'	18° 2'	1° 6'	19°23'	19°14'	7°12'	5°55'	17°54'	13°17'	S 24
M25	10 51 23	14°40'22	17° 1'	21°58'	23°31'	17°34'	29°30'	18° 7'	1° 4'	19°22'	19°13'	7° 6'	5°52'	18° 1'	13°13'	M25
T 26	10 55 19	15°40'11	1°17' 0	21°14'	24°46'	18°20'	29°26'	18°12'	1° 1'	19°21'	19°12'	7° 0'	5°49'	18° 7'	13° 9'	T 26
W27	10 59 16	16°39'58	15° 5'	20°24'	26° 0'	19° 7'	29°22'	18°17'	0°59'	19°20'	19°10'	6°55'	5°45'	18°14'	13° 5'	W27
T 28	11 3 12	17°39'42	29°14'	19°31'	27°15'	19°54'	29°18'	18°21'	0°56'	19°18'	19° 9'	6°52'	5°42'	18°21'	13° 1'	T 28
F 29	11 7 9	18°39'24	13°11'24	18°17'36	28°17'29	20°17'41	29°14'14	18°26'26	0°11'54	19°17'17	19°10'10	6°D50	5°40'39	18°27'28	12°15'58	F 29

Delta T = 06m11s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1460

geocentric

MARCH 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 11 5	19°39'04	27°11'33	17°R40	29°K44	21°K27	29°R10	18°Z30	0°R52	19°R16	19°R 7	6°L50	5°L36	18°Z34	12°R53	S 1
S 2	11 15 2	20°38'42	11°L40	16°K44	0°Y59	22°14	29°L 5	18°35	0°M49	19°L14	19°L 5	6°51	5°33	18°41	12°L49	S 2
M 3	11 18 59	21°38'17	25°42	15°50	2°13	23° 0	29° 1	18°39	0°47	19°13	19° 4	6°53	5°30	18°48	12°45	M 3
T 4	11 22 55	22°37'50	9°L40	14°58	3°28	23°47	28°56	18°44	0°44	19°11	19° 3	6°R53	5°26	18°54	12°41	T 4
W 5	11 26 52	23°37'20	23°30	14° 9	4°42	24°34	28°51	18°48	0°42	19°10	19° 2	6°52	5°23	19° 1	12°37	W 5
T 6	11 30 48	24°36'48	7°M11	13°24	5°57	25°20	28°46	18°52	0°40	19° 8	19° 0	6°48	5°20	19° 8	12°32	T 6
F 7	11 34 45	25°36'14	20°41	12°44	7°11	26° 7	28°40	18°56	0°37	19° 7	18°59	6°43	5°17	19°14	12°28	F 7
S 8	11 38 41	26°35'38	3°L56	12° 9	8°25	26°53	28°35	19° 0	0°35	19° 6	18°58	6°35	5°14	19°21	12°24	S 8
S 9	11 42 38	27°35'00	16°57	11°40	9°40	27°39	28°29	19° 4	0°33	19° 4	18°57	6°26	5°10	19°28	12°19	S 9
M10	11 46 34	28°34'20	29°40	11°17	10°54	28°26	28°24	19° 8	0°31	19° 3	18°56	6°16	5° 7	19°34	12°15	M10
T 11	11 50 31	29°33'38	12°M 8	10°59	12° 8	29°12	28°18	19°12	0°28	19° 1	18°55	6° 7	5° 4	19°41	12°10	T 11
W12	11 54 28	0°Y32'55	24°21	10°47	13°23	29°58	28°12	19°16	0°26	18°59	18°54	6° 0	5° 1	19°48	12° 6	W12
T 13	11 58 24	1°32'09	6°Z22	10°41	14°37	0°Y44	28° 6	19°19	0°24	18°58	18°53	5°54	4°58	19°54	12° 1	T 13
F 14	12 2 21	2°31'22	18°15	10°D41	15°51	1°31	28° 0	19°23	0°22	18°56	18°52	5°51	4°55	20° 1	11°57	F 14
S 15	12 6 17	3°30'33	0°Z 5	10°46	17° 5	2°17	27°53	19°26	0°20	18°55	18°51	5°D50	4°51	20° 8	11°52	S 15
S 16	12 10 14	4°29'42	11°57	10°57	18°20	3° 3	27°47	19°30	0°18	18°53	18°50	5°50	4°48	20°14	11°47	S 16
M17	12 14 10	5°28'49	23°56	11°13	19°34	3°49	27°41	19°33	0°16	18°52	18°49	5°51	4°45	20°21	11°43	M17
T 18	12 18 7	6°27'54	6°Z 7	11°34	20°48	4°35	27°34	19°36	0°14	18°50	18°48	5°R51	4°42	20°28	11°38	T 18
W19	12 22 3	7°26'58	18°36	11°59	22° 2	5°21	27°27	19°39	0°12	18°48	18°47	5°50	4°39	20°35	11°33	W19
T 20	12 26 0	8°26'00	1°K25	12°29	23°16	6° 7	27°20	19°43	0°10	18°47	18°46	5°47	4°35	20°41	11°28	T 20
F 21	12 29 57	9°24'59	14°17	13° 3	24°30	6°53	27°13	19°45	0° 8	18°45	18°45	5°42	4°32	20°48	11°24	F 21
S 22	12 33 53	10°23'57	28°13	13°41	25°44	7°39	27° 6	19°48	0° 6	18°44	18°45	5°34	4°29	20°55	11°19	S 22
S 23	12 37 50	11°22'53	12°Y10	14°23	26°58	8°25	26°59	19°51	0° 5	18°42	18°44	5°24	4°26	21° 1	11°14	S 23
M24	12 41 46	12°21'47	26°25	15° 9	28°12	9°10	26°52	19°54	0° 3	18°40	18°43	5°14	4°23	21° 8	11°10	M24
T 25	12 45 43	13°20'39	10°Z52	15°58	29°26	9°56	26°45	19°56	0° 1	18°39	18°42	5° 3	4°20	21°15	11° 5	T 25
W26	12 49 39	14°19'28	25°23	16°50	0°K40	10°42	26°38	19°59	29°L59	18°37	18°41	4°54	4°16	21°21	11° 0	W26
T 27	12 53 36	15°18'16	9°II53	17°46	1°54	11°28	26°30	20° 1	29°58	18°36	18°41	4°48	4°13	21°28	10°55	T 27
F 28	12 57 32	16°17'01	24°17	18°44	3° 8	12°13	26°23	20° 4	29°56	18°34	18°40	4°44	4°10	21°35	10°51	F 28
S 29	13 1 29	17°15'44	8°L31	19°45	4°22	12°59	26°15	20° 6	29°55	18°32	18°39	4°42	4° 7	21°41	10°46	S 29
S 30	13 5 25	18°14'25	22°33	20°49	5°36	13°44	26° 8	20° 8	29°53	18°31	18°39	4°D42	4° 4	21°48	10°41	S 30
M31	13 9 22	19°Y13'03	6°L24	21°K56	6°K49	14°Y30	26°L 0	20°Z10	29°L52	18°L29	18°L38	4°R42	4°L 1	21°Z55	10°L37	M31

Delta T = 06m11s

Julian Calendar 1 March 1460 == Greg. Calendar 10 March 1460

APRIL 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 13 19	20°Y11'39	20°L 2	23°K 5	8°Z 3	15°Y15	25°R53	20°Z12	29°R50	18°R27	18°R38	4°R41	3°L57	22°Z 1	10°R32	T 1
W 2	13 17 15	21°10'13	3°M30	24°16	9°17	16° 0	25°L45	20°14	29°L49	18°L26	18°L37	4°L38	3°54	22° 8	10°L27	W 2
T 3	13 21 12	22° 8'45	16°47	25°30	10°31	16°46	25°38	20°16	29°48	18°24	18°37	4°33	3°51	22°15	10°23	T 3
F 4	13 25 8	23° 7'14	29°53	26°45	11°44	17°31	25°30	20°17	29°47	18°22	18°36	4°25	3°48	22°21	10°18	F 4
S 5	13 29 5	24° 5'42	12°L48	28° 3	12°58	18°16	25°22	20°19	29°45	18°21	18°36	4°14	3°45	22°28	10°14	S 5
S 6	13 33 1	25° 4'07	25°31	29°24	14°11	19° 1	25°15	20°20	29°44	18°19	18°35	4° 1	3°41	22°35	10° 9	S 6
M 7	13 36 58	26° 2'31	8°M 1	0°Y46	15°25	19°46	25° 7	20°22	29°43	18°17	18°35	3°47	3°38	22°41	10° 5	M 7
T 8	13 40 54	27° 0'53	20°20	2°10	16°38	20°32	24°59	20°23	29°42	18°16	18°34	3°35	3°35	22°48	10° 1	T 8
W 9	13 44 51	27°59'13	2°Z27	3°36	17°52	21°17	24°52	20°24	29°41	18°14	18°34	3°23	3°32	22°55	9°56	W 9
T 10	13 48 48	28°57'31	14°25	5° 4	19° 5	22° 1	24°44	20°25	29°40	18°13	18°34	3°14	3°29	23° 1	9°52	T 10
F 11	13 52 44	29°55'48	26°17	6°34	20°19	22°46	24°36	20°26	29°39	18°11	18°33	3° 8	3°26	23° 8	9°48	F 11
S 12	13 56 41	0°Z54'04	8°Z 6	8° 6	21°32	23°31	24°29	20°27	29°38	18° 9	18°33	3° 5	3°22	23°15	9°43	S 12
S 13	14 0 37	1°52'17	19°56	9°40	22°46	24°16	24°21	20°28	29°37	18° 8	18°33	3° 3	3°19	23°22	9°39	S 13
M14	14 4 34	2°50'30	1°L54	11°16	23°59	25° 1	24°14	20°29	29°37	18° 6	18°33	3° 3	3°16	23°28	9°35	M14
T 15	14 8 30	3°48'40	14° 4	12°54	25°12	25°46	24° 6	20°29	29°36	18° 5	18°32	3° 3	3°13	23°35	9°31	T 15
W16	14 12 27	4°46'50	26°32	14°33	26°25	26°30	23°59	20°30	29°35	18° 3	18°32	3° 2	3°10	23°42	9°27	W16
T 17	14 16 23	5°44'57	9°K22	16°14	27°39	27°15	23°51	20°30	29°35	18° 2	18°32	2°59	3° 6	23°48	9°23	T 17
F 18	14 20 20	6°43'03	22°39	17°58	28°52	27°59	23°44	20°31	29°34	18° 0	18°32	2°53	3° 3	23°55	9°19	F 18
S 19	14 24 17	7°41'08	6°Y23	19°43	0°II 5	28°44	23°37	20°31	29°34	17°59	18°32	2°45	3° 0	24° 2	9°16	S 19
S 20	14 28 13	8°39'11	20°33	21°30	1°18	29°28	23°29	20°31	29°33	17°57	18°32	2°35	2°57	24° 8	9°12	S 20
M21	14 32 10	9°37'13	5°Z 7	23°19	2°31	0°K13	23°22	20°R31	29°33	17°55	18°D32	2°23	2°54	24°15	9° 8	M21
T 22	14 36 6	10°35'13	19°55	25° 9	3°44	0°57	23°15	20°31	29°32	17°54	18°32	2°12	2°51	24°22	9° 5	T 22
W23	14 40 3	11°33'12	4°II51	27° 2	4°57	1°42	23° 8	20°31	29°32	17°53	18°32	2° 3	2°47	24°28	9° 1	W23
T 24	14 43 59	12°31'09	19°45	28°56	6°10	2°26	23° 1	20°30	29°32	17°51	18°32	1°55	2°44	24°35	8°58	T 24
F 25	14 47 56	13°29'04	4°L29	0°K53	7°23	3°10	22°54	20°30	29°32	17°50	18°32	1°51	2°41	24°42	8°55	F 25
S 26	14 51 52	14°26'58	18°57	2°51	8°36	3°54	22°48	20°30	29°32	17°48	18°32	1°48	2°38	24°48	8°51	S 26
S 27	14 55 49	15°24'49	3°L 7	4°51	9°49	4°38	22°41	20°29	29°32	17°47	18°32	1°D48	2°35	24°55	8°48	S 27
M28	14 59 46	16°22'39	16°57	6°53	11° 2	5°22	22°35	20°28	29°D32	17°45	18°33	1°R48	2°32	25° 2	8°45	M28
T 29	15 3 42	17°20'27	0°M29	8°56	12°15	6° 6	22°28	20°28	29°32	17°44	18°33	1°48	2°28	25° 8	8°42	T 29
W30	15 7 39	18°18'13	13°M45	11°K 1	13°II28	6°K50	22°L22	20°Z27	29°L32	17°L43	18°L33	1°L45	2°L25	25°Z15	8°L39	W30

Delta T = 06m11s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1460
geocentric

MAY 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 11 35	19°15'57	26°46	13°8 8	14°40	7°34	22°R16	20°R26	29°Ω32	17°R41	18°Ω33	1°R40	2°Ω22	25°22	8°R37	T 1
F 2	15 15 32	20°13'40	9°34	15°15	15°53	8°18	22°10	20°325	29°32	17°40	18°34	1°Ω33	2°19	25°28	8°34	F 2
S 3	15 19 28	21°11'21	22°10	17°24	17° 6	9° 2	22° 4	20°24	29°32	17°39	18°34	1°23	2°16	25°35	8°31	S 3
S 4	15 23 25	22° 9'01	4°36	19°34	18°18	9°45	21°58	20°22	29°32	17°37	18°34	1°11	2°12	25°42	8°29	S 4
M 5	15 27 21	23° 6'40	16°52	21°45	19°31	10°29	21°52	20°21	29°33	17°36	18°35	0°59	2° 9	25°48	8°26	M 5
T 6	15 31 18	24° 4'17	29° 0	23°56	20°44	11°13	21°47	20°20	29°33	17°35	18°35	0°47	2° 6	25°55	8°24	T 6
W 7	15 35 15	25° 1'53	10°59	26° 8	21°56	11°56	21°41	20°18	29°34	17°34	18°36	0°37	2° 3	26° 2	8°22	W 7
T 8	15 39 11	25°59'27	22°52	28°20	23° 9	12°40	21°36	20°17	29°34	17°32	18°36	0°29	2° 0	26° 8	8°20	T 8
F 9	15 43 8	26°57'01	4°31	0°31	24°21	13°23	21°31	20°15	29°35	17°31	18°37	0°23	1°57	26°15	8°18	F 9
S 10	15 47 4	27°54'34	16°29	2°42	25°33	14° 7	21°26	20°13	29°35	17°30	18°37	0°20	1°53	26°22	8°16	S 10
S 11	15 51 1	28°52'06	28°20	4°52	26°46	14°50	21°21	20°11	29°36	17°29	18°38	0°D19	1°50	26°28	8°14	S 11
M12	15 54 57	29°49'36	10°17	7° 1	27°58	15°33	21°16	20° 9	29°37	17°28	18°38	0°19	1°47	26°35	8°12	M12
T 13	15 58 54	0°47'06	22°26	9° 9	29°10	16°16	21°11	20° 7	29°38	17°27	18°39	0°20	1°44	26°42	8°10	T 13
W14	16 2 50	1°44'35	4°53	11°16	0°52	17° 0	21° 7	20° 5	29°38	17°26	18°39	0°R20	1°41	26°48	8° 9	W14
T 15	16 6 47	2°42'04	17°41	13°20	1°35	17°43	21° 3	20° 3	29°39	17°25	18°40	0°19	1°38	26°55	8° 7	T 15
F 16	16 10 44	3°39'31	0°55	15°23	2°47	18°26	20°59	20° 1	29°40	17°23	18°41	0°16	1°34	27° 2	8° 6	F 16
S 17	16 14 40	4°36'58	14°37	17°24	3°59	19° 9	20°55	19°58	29°41	17°22	18°42	0°11	1°31	27° 8	8° 5	S 17
S 18	16 18 37	5°34'24	28°49	19°22	5°11	19°52	20°51	19°56	29°42	17°22	18°42	0° 4	1°28	27°15	8° 4	S 18
M19	16 22 33	6°31'50	13°27	21°18	6°23	20°35	20°47	19°53	29°43	17°21	18°43	29°56	1°25	27°22	8° 3	M19
T 20	16 26 30	7°29'14	28°24	23°12	7°35	21°18	20°44	19°51	29°44	17°20	18°44	29°48	1°22	27°28	8° 2	T 20
W21	16 30 26	8°26'38	13°33	25° 4	8°47	22° 0	20°41	19°48	29°46	17°19	18°45	29°41	1°18	27°35	8° 1	W21
T 22	16 34 23	9°24'01	28°43	26°53	9°59	22°43	20°38	19°45	29°47	17°18	18°46	29°36	1°15	27°42	8° 1	T 22
F 23	16 38 19	10°21'23	13°34	28°39	11°11	23°26	20°35	19°43	29°48	17°17	18°46	29°33	1°12	27°48	8° 0	F 23
S 24	16 42 16	11°18'45	28°30	0°52	12°22	24° 8	20°32	19°40	29°50	17°16	18°47	29°D32	1° 9	27°55	8° 0	S 24
S 25	16 46 13	12°16'05	12°54	2° 4	13°34	24°51	20°29	19°37	29°51	17°15	18°48	29°32	1° 6	28° 2	7°59	S 25
M26	16 50 9	13°13'24	26°53	3°43	14°46	25°34	20°27	19°34	29°52	17°15	18°49	29°34	1° 3	28° 8	7°59	M26
T 27	16 54 6	14°10'42	10°29	5°19	15°58	26°16	20°25	19°31	29°54	17°14	18°50	29°R34	0°59	28°15	7°D59	T 27
W28	16 58 2	15° 7'59	23°43	6°53	17° 9	26°58	20°23	19°27	29°55	17°13	18°51	29°34	0°56	28°22	7°59	W28
T 29	17 1 59	16° 5'15	6°38	8°24	18°21	27°41	20°21	19°24	29°57	17°13	18°52	29°32	0°53	28°28	7°59	T 29
F 30	17 5 55	17° 2'31	19°16	9°52	19°32	28°23	20°19	19°21	29°59	17°12	18°53	29°28	0°50	28°35	7°59	F 30
S 31	17 9 52	17°59'45	1°40	11°57	20°34	29°8 5	20°18	19°31	0°17	17°11	18°54	29°52	0°47	28°42	8° 0	S 31

Delta T = 06m11s

Julian Calendar 1 May 1460 == Greg. Calendar 10 May 1460

JUNE 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 13 48	18°56'59	13°53	12°54	21°55	29°847	20°R16	19°R14	0°17 2	17°R11	18°Ω56	29°R16	0°Ω44	28°48	8° 0	S 1
M 2	17 17 45	19°54'12	25°58	14° 0	23° 6	0°130	20°15	19°310	0° 4	17°10	18°57	29°9	0°40	28°55	8° 1	M 2
T 3	17 21 42	20°51'25	7°55	15°17	24°17	1°12	20°14	19° 7	0° 6	17°10	18°58	29° 2	0°37	29° 2	8° 1	T 3
W 4	17 25 38	21°48'37	19°48	16°31	25°29	1°54	20°13	19° 3	0° 7	17° 9	18°59	28°56	0°34	29° 8	8° 2	W 4
T 5	17 29 35	22°45'49	1°38	17°43	26°40	2°36	20°13	19° 0	0° 9	17° 9	19° 0	28°52	0°31	29°15	8° 3	T 5
F 6	17 33 31	23°43'01	13°26	18°51	27°51	3°18	20°12	18°56	0°11	17° 8	19° 1	28°49	0°28	29°22	8° 4	F 6
S 7	17 37 28	24°40'12	25°16	19°57	29° 2	3°59	20°12	18°52	0°13	17° 8	19° 3	28°D48	0°24	29°28	8° 5	S 7
S 8	17 41 24	25°37'23	7°10	20°59	0°Ω13	4°41	20°D12	18°48	0°15	17° 7	19° 4	28°48	0°21	29°35	8° 7	S 8
M 9	17 45 21	26°34'34	19°11	21°58	1°24	5°23	20°12	18°44	0°18	17° 7	19° 5	28°49	0°18	29°42	8° 8	M 9
T 10	17 49 17	27°31'45	1°23	22°54	2°35	6° 5	20°12	18°40	0°20	17° 7	19° 7	28°51	0°15	29°48	8° 9	T 10
W11	17 53 14	28°28'56	13°51	23°46	3°45	6°46	20°13	18°36	0°22	17° 6	19° 8	28°52	0°12	29°55	8°11	W11
T 12	17 57 11	29°26'07	26°38	24°35	4°56	7°28	20°13	18°32	0°24	17° 6	19° 9	28°R53	0° 9	0° 2	8°13	T 12
F 13	18 1 7	0°23'18	9°48	25°20	6° 7	8°10	20°14	18°28	0°26	17° 6	19°11	28°53	0° 5	0° 8	8°14	F 13
S 14	18 5 4	1°20'29	23°25	26° 2	7°17	8°51	20°15	18°24	0°29	17° 6	19°12	28°51	0° 2	0°15	8°16	S 14
S 15	18 9 0	2°17'40	7°28	26°39	8°28	9°32	20°16	18°20	0°31	17° 6	19°13	28°49	29°59	0°22	8°18	S 15
M16	18 12 57	3°14'52	21°58	27°13	9°38	10°14	20°18	18°16	0°33	17° 6	19°15	28°45	29°56	0°28	8°20	M16
T 17	18 16 53	4°12'04	6°15	27°42	10°49	10°55	20°19	18°12	0°36	17° 5	19°16	28°42	29°53	0°35	8°23	T 17
W18	18 20 50	5° 9'16	21°57	28° 8	11°59	11°36	20°21	18° 7	0°38	17° 5	19°18	28°39	29°50	0°42	8°25	W18
T 19	18 24 46	6° 6'29	7°9	28°29	13° 9	12°18	20°23	18° 3	0°41	17°D 5	19°19	28°37	29°46	0°48	8°27	T 19
F 20	18 28 43	7° 3'41	22°18	28°45	14°19	12°59	20°25	17°59	0°43	17° 5	19°21	28°D36	29°43	0°55	8°30	F 20
S 21	18 32 40	8° 0'54	7°Ω13	28°57	15°29	13°40	20°27	17°55	0°46	17° 5	19°22	28°36	29°40	1° 2	8°33	S 21
S 22	18 36 36	8°58'06	21°49	29° 4	16°39	14°21	20°29	17°50	0°49	17° 5	19°24	28°37	29°37	1° 8	8°35	S 22
M23	18 40 33	9°55'19	5°59	29°R 7	17°49	15° 2	20°32	17°46	0°51	17° 6	19°25	28°38	29°34	1°15	8°38	M23
T 24	18 44 29	10°52'31	19°44	29° 5	18°59	15°43	20°35	17°42	0°54	17° 6	19°27	28°39	29°30	1°22	8°41	T 24
W25	18 48 26	11°49'43	3°3	28°58	20° 9	16°24	20°38	17°37	0°57	17° 6	19°29	28°40	29°27	1°28	8°44	W25
T 26	18 52 22	12°46'55	15°59	28°46	21°19	17° 5	20°41	17°33	0°59	17° 6	19°30	28°R40	29°24	1°35	8°47	T 26
F 27	18 56 19	13°44'07	28°34	28°30	22°28	17°45	20°44	17°28	1° 2	17° 6	19°32	28°40	29°21	1°42	8°51	F 27
S 28	19 0 15	14°41'20	10°54	28° 9	23°38	18°26	20°48	17°24	1° 5	17° 7	19°33	28°39	29°18	1°48	8°54	S 28
S 29	19 4 12	15°38'32	23° 0	27°44	24°47	19° 7	20°51	17°20	1° 8	17° 7	19°35	28°37	29°15	1°55	8°58	S 29
M30	19 8 9	16°35'45	4°58	27°51	25°57	19°148	20°55	17°315	1°11	17°7	19°37	28°35	29°11	2° 2	9° 1	M30

Delta T = 06m10s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1460
geocentric

JULY 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 12 5	17°32'58	16°50	26°R42	27°16	20°II28	20°59	17°R11	1°14	17°14	19°139	28°R34	29°58	2°8	9°5	T 1
W 2	19 16 2	18°30'11	28°39	26°57	28°15	21° 9	21° 3	17°36	1°17	17° 8	19°40	28°32	29° 5	2°15	9° 9	W 2
T 3	19 19 58	19°27'25	10°38	25°29	29°24	21°49	21° 7	17° 2	1°20	17° 8	19°42	28°31	29° 2	2°22	9°13	T 3
F 4	19 23 55	20°24'39	22°19	24°49	0°33	22°29	21°12	16°57	1°23	17° 9	19°44	28°31	28°59	2°28	9°17	F 4
S 5	19 27 51	21°21'54	4°15	24° 7	1°42	23°10	21°16	16°53	1°26	17° 9	19°45	28°D31	28°56	2°35	9°21	S 5
S 6	19 31 48	22°19'10	16°17	23°25	2°51	23°50	21°21	16°49	1°29	17°10	19°47	28°31	28°52	2°42	9°25	S 6
M 7	19 35 45	23°16'26	28°27	22°43	3°59	24°30	21°26	16°44	1°32	17°10	19°49	28°32	28°49	2°48	9°29	M 7
T 8	19 39 41	24°13'43	10°49	22° 2	5° 8	25°11	21°31	16°40	1°35	17°11	19°51	28°32	28°46	2°55	9°33	T 8
W 9	19 43 38	25°11'01	23°25	21°22	6°16	25°51	21°36	16°36	1°38	17°12	19°53	28°33	28°43	3° 2	9°38	W 9
T 10	19 47 34	26° 8'19	6°17	20°45	7°24	26°31	21°41	16°31	1°42	17°12	19°54	28°33	28°40	3° 8	9°42	T 10
F 11	19 51 31	27° 5'39	19°27	20°10	8°33	27°11	21°47	16°27	1°45	17°13	19°56	28°33	28°36	3°15	9°47	F 11
S 12	19 55 27	28° 3'00	2°59	19°40	9°41	27°51	21°52	16°23	1°48	17°14	19°58	28°33	28°33	3°22	9°52	S 12
S 13	19 59 24	29° 0'22	16°54	19°14	10°49	28°31	21°58	16°18	1°51	17°14	20° 0	28°33	28°30	3°28	9°56	S 13
M14	20 3 20	29°57'45	1°11	18°52	11°57	29°11	22° 4	16°14	1°55	17°15	20° 2	28°33	28°27	3°35	10° 1	M14
T 15	20 7 17	0°55'10	15°45	18°36	13° 4	29°50	22°10	16°10	1°58	17°16	20° 3	28°33	28°24	3°42	10° 6	T 15
W16	20 11 14	1°52'35	0°37	18°26	14°12	0°30	22°16	16° 6	2° 1	17°17	20° 5	28°34	28°21	3°48	10°11	W16
T 17	20 15 10	2°50'02	15°36	18°D21	15°19	1°10	22°23	16° 2	2° 5	17°18	20° 7	28°34	28°17	3°55	10°17	T 17
F 18	20 19 7	3°47'30	0°17	18°23	16°27	1°50	22°29	15°57	2° 8	17°18	20° 9	28°R34	28°14	4° 2	10°22	F 18
S 19	20 23 3	4°44'59	15°30	18°32	17°34	2°29	22°36	15°53	2°12	17°19	20°11	28°34	28°11	4° 8	10°27	S 19
S 20	20 27 0	5°42'28	0°8	18°47	18°41	3° 9	22°42	15°49	2°15	17°20	20°13	28°33	28° 8	4°15	10°32	S 20
M21	20 30 56	6°39'59	14°24	19° 8	19°48	3°48	22°49	15°45	2°19	17°21	20°15	28°32	28° 5	4°22	10°38	M21
T 22	20 34 53	7°37'30	28°15	19°37	20°55	4°28	22°56	15°41	2°22	17°22	20°17	28°31	28° 1	4°28	10°44	T 22
W23	20 38 49	8°35'03	11°41	20°12	22° 1	5° 7	23° 4	15°37	2°26	17°23	20°19	28°30	27°58	4°35	10°49	W23
T 24	20 42 46	9°32'36	24°41	20°53	23° 8	5°47	23°11	15°34	2°29	17°24	20°21	28°30	27°55	4°42	10°55	T 24
F 25	20 46 43	10°30'10	7°18	21°42	24°14	6°26	23°18	15°30	2°33	17°26	20°22	28°D29	27°52	4°48	11° 1	F 25
S 26	20 50 39	11°27'45	19°37	22°36	25°21	7° 5	23°26	15°26	2°36	17°27	20°24	28°29	27°49	4°55	11° 7	S 26
S 27	20 54 36	12°25'21	1°42	23°38	26°27	7°44	23°34	15°22	2°40	17°28	20°26	28°30	27°46	5° 2	11°13	S 27
M28	20 58 32	13°22'58	13°37	24°45	27°32	8°23	23°41	15°19	2°43	17°29	20°28	28°31	27°42	5° 8	11°19	M28
T 29	21 2 29	14°20'36	25°27	25°58	28°38	9° 3	23°49	15°15	2°47	17°30	20°30	28°32	27°39	5°15	11°25	T 29
W30	21 6 25	15°18'15	7°16	27°16	29°44	9°42	23°57	15°12	2°51	17°31	20°32	28°34	27°36	5°21	11°31	W30
T 31	21 10 22	16°15'55	19°37	28°41	0°49	10°21	24°15	15°38	2°54	17°33	20°34	28°35	27°33	5°28	11°37	T 31

Delta T = 06m10s

Julian Calendar 1 July 1460 == Greg. Calendar 10 July 1460

AUGUST 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21 14 18	17°13'37	1°3	0°10	1°54	10°59	24°14	15°R 5	2°58	17°34	20°36	28°R35	27°30	5°35	11°43	F 1
S 2	21 18 15	18°11'20	13° 8	1°43	2°59	11°38	24°22	15°31	3° 2	17°35	20°38	28°34	27°27	5°41	11°50	S 2
S 3	21 22 12	19° 9'04	25°22	3°22	4° 4	12°17	24°31	14°58	3° 5	17°37	20°40	28°33	27°23	5°48	11°56	S 3
M 4	21 26 8	20° 6'50	7°48	5° 3	5° 8	12°56	24°39	14°55	3° 9	17°38	20°42	28°30	27°20	5°55	12° 3	M 4
T 5	21 30 5	21° 4'37	20°26	6°49	6°12	13°35	24°48	14°52	3°13	17°39	20°44	28°27	27°17	6° 1	12° 9	T 5
W 6	21 34 1	22° 2'25	3°18	8°37	7°16	14°13	24°57	14°49	3°16	17°41	20°46	28°23	27°14	6° 8	12°16	W 6
T 7	21 37 58	23° 0'16	16°24	10°28	8°20	14°52	25° 6	14°46	3°20	17°42	20°48	28°20	27°11	6°15	12°23	T 7
F 8	21 41 54	23°58'08	29°44	12°21	9°24	15°30	25°15	14°43	3°24	17°44	20°50	28°17	27° 7	6°21	12°29	F 8
S 9	21 45 51	24°56'02	13°19	14°16	10°27	16° 9	25°24	14°40	3°27	17°45	20°52	28°15	27° 4	6°28	12°36	S 9
S 10	21 49 47	25°53'58	27° 9	16°13	11°31	16°47	25°33	14°37	3°31	17°47	20°54	28°D15	27° 1	6°35	12°43	S 10
M11	21 53 44	26°51'56	11°13	18°10	12°33	17°26	25°43	14°34	3°35	17°48	20°56	28°16	26°58	6°41	12°50	M11
T 12	21 57 40	27°49'55	25°31	20° 8	13°36	18° 4	25°52	14°32	3°39	17°50	20°57	28°17	26°55	6°48	12°57	T 12
W13	22 1 37	28°47'57	10°1	22° 6	14°39	18°42	26° 2	14°29	3°42	17°51	20°59	28°18	26°52	6°55	13° 4	W13
T 14	22 5 34	29°46'01	24°38	24° 4	15°41	19°21	26°12	14°27	3°46	17°53	21° 1	28°R19	26°48	7° 1	13°11	T 14
F 15	22 9 30	0°44'06	9°18	26° 2	16°43	19°59	26°21	14°24	3°50	17°55	21° 3	28°19	26°45	7° 8	13°19	F 15
S 16	22 13 27	1°42'13	23°55	28° 0	17°44	20°37	26°31	14°22	3°54	17°56	21° 5	28°17	26°42	7°15	13°26	S 16
S 17	22 17 23	2°40'22	8°21	29°57	18°46	21°15	26°41	14°20	3°58	17°58	21° 7	28°13	26°39	7°21	13°33	S 17
M18	22 21 20	3°38'33	22°32	1°54	19°47	21°53	26°51	14°18	4° 1	18° 0	21° 9	28° 8	26°36	7°28	13°40	M18
T 19	22 25 16	4°36'45	6°22	3°49	20°47	22°31	27° 2	14°16	4° 5	18° 1	21°11	28° 2	26°33	7°35	13°48	T 19
W20	22 29 13	5°34'59	19°48	5°44	21°48	23° 9	27°12	14°14	4° 9	18° 3	21°13	27°57	26°29	7°41	13°55	W20
T 21	22 33 9	6°33'14	2°50	7°38	22°48	23°46	27°22	14°12	4°13	18° 5	21°15	27°52	26°26	7°48	14° 3	T 21
F 22	22 37 6	7°31'31	15°30	9°31	23°48	24°24	27°33	14°10	4°16	18° 7	21°17	27°48	26°23	7°55	14°10	F 22
S 23	22 41 3	8°29'50	27°51	11°23	24°47	25° 2	27°43	14° 8	4°20	18° 9	21°19	27°45	26°20	8° 1	14°18	S 23
S 24	22 44 59	9°28'10	9°56	13°13	25°46	25°40	27°54	14° 7	4°24	18°10	21°20	27°D45	26°17	8° 8	14°26	S 24
M25	22 48 56	10°26'32	21°50	15° 3	26°44	26°17	28° 4	14° 5	4°28	18°12	21°22	27°45	26°13	8°14	14°33	M25
T 26	22 52 52	11°24'55	3°40	16°51	27°43	26°55	28°15	14° 4	4°31	18°14	21°24	27°47	26°10	8°21	14°41	T 26
W27	22 56 49	12°23'20	15°29	18°39	28°40	27°32	28°26	14° 3	4°35	18°16	21°26	27°48	26° 7	8°28	14°49	W27
T 28	23 0 45	13°21'47	27°22	20°25	29°38	28°10	28°37	14° 1	4°39	18°18	21°28	27°R49	26° 4	8°34	14°57	T 28
F 29	23 4 42	14°20'15	9°25	22°10	0°135	28°47	28°48	14° 0	4°43	18°20	21°30	27°48	26° 1	8°41	15° 5	F 29
S 30	23 8 38	15°18'45	21°39	23°55	1°31	29°24	28°59	13°59	4°46	18°22	21°32	27°45	25°58	8°48	15°12	S 30
S 31	23 12 35	16°17'17	4°7	25°38	2°127	0°1	29°10	13°58	4°50	18°24	21°33	27°40	25°54	8°54	15°20	S 31

Delta T = 06m10s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1460

geocentric

SEPTEMBER 1460 JC

00:00 UT

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

Delta T = 06m10s

Julian Calendar 1 Sept. 1460 == Greg. Calendar 10 Sept. 1460

OCTOBER 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	1 14 48	16°49'06	22°20	10°45	25°16	18°24	5°26	14°18	6°37	19°30	22°22	24°47	24°16	12°21	19°40	W 1
T 2	1 18 45	17°48'43	6°14	11°53	25°42	19°18	5°39	14°20	6°40	19°32	22°23	24°35	24°13	12°27	19°48	T 2
F 3	1 22 41	18°48'22	20°19	12°59	26°6	19°53	5°52	14°22	6°43	19°35	22°25	24°24	24°10	12°34	19°57	F 3
S 4	1 26 38	19°48'04	4°31	14°2	26°29	20°28	6°5	14°25	6°46	19°37	22°26	24°16	24°6	12°40	20°6	S 4
S 5	1 30 34	20°47'47	18°45	15°3	26°50	21°3	6°18	14°27	6°49	19°39	22°27	24°11	24°3	12°47	20°14	S 5
M 6	1 34 31	21°47'33	2°57	16°1	27°8	21°38	6°31	14°30	6°52	19°41	22°28	24°8	24°0	12°54	20°23	M 6
T 7	1 38 27	22°47'22	17°6	16°56	27°25	22°12	6°44	14°33	6°55	19°43	22°29	24°8	23°57	13°0	20°31	T 7
W 8	1 42 24	23°47'12	1°10	17°48	27°40	22°47	6°57	14°35	6°58	19°46	22°30	24°8	23°54	13°7	20°40	W 8
T 9	1 46 21	24°47'05	15°8	18°36	27°53	23°21	7°10	14°38	7°1	19°48	22°31	24°7	23°50	13°14	20°49	T 9
F 10	1 50 17	25°47'00	29°1	19°19	28°4	23°56	7°23	14°41	7°4	19°50	22°33	24°4	23°47	13°20	20°57	F 10
S 11	1 54 14	26°46'57	12°48	19°58	28°13	24°30	7°36	14°44	7°7	19°52	22°34	23°58	23°44	13°27	21°6	S 11
S 12	1 58 10	27°46'56	26°26	20°32	28°19	25°4	7°49	14°47	7°9	19°55	22°35	23°50	23°41	13°34	21°14	S 12
M13	2 2 7	28°46'58	9°54	21°0	28°23	25°38	8°2	14°50	7°12	19°57	22°36	23°39	23°38	13°40	21°23	M13
T 14	2 6 3	29°47'01	23°10	21°22	28°25	26°12	8°15	14°54	7°15	19°59	22°37	23°26	23°35	13°47	21°32	T 14
W15	2 10 0	0°47'07	6°11	21°37	28°25	26°46	8°28	14°57	7°17	20°1	22°37	23°12	23°31	13°54	21°40	W15
T 16	2 13 56	1°47'14	18°57	21°44	28°22	27°20	8°42	15°1	7°20	20°4	22°38	22°59	23°28	14°0	21°49	T 16
F 17	2 17 53	2°47'23	1°27	21°43	28°16	27°54	8°55	15°4	7°22	20°6	22°39	22°48	23°25	14°7	21°57	F 17
S 18	2 21 50	3°47'34	13°41	21°33	28°9	28°27	9°8	15°8	7°25	20°8	22°40	22°40	23°22	14°13	22°6	S 18
S 19	2 25 46	4°47'46	25°43	21°14	27°58	29°1	9°21	15°11	7°27	20°10	22°41	22°34	23°19	14°20	22°14	S 19
M20	2 29 43	5°48'00	7°35	20°45	27°46	29°34	9°35	15°15	7°30	20°12	22°42	22°31	23°15	14°27	22°23	M20
T 21	2 33 39	6°48'16	19°23	20°6	27°31	0°7	9°48	15°19	7°32	20°14	22°42	22°30	23°12	14°33	22°31	T 21
W22	2 37 36	7°48'33	1°10	19°18	27°13	0°40	10°1	15°23	7°34	20°17	22°43	22°30	23°9	14°40	22°39	W22
T 23	2 41 32	8°48'52	13°4	18°20	26°54	1°14	10°14	15°27	7°37	20°19	22°44	22°30	23°6	14°47	22°48	T 23
F 24	2 45 29	9°49'12	25°8	17°14	26°32	1°46	10°28	15°31	7°39	20°21	22°45	22°29	23°3	14°53	22°56	F 24
S 25	2 49 25	10°49'33	7°29	16°2	26°8	2°19	10°41	15°35	7°41	20°23	22°45	22°26	23°0	15°0	23°5	S 25
S 26	2 53 22	11°49'56	20°11	14°44	25°41	2°52	10°54	15°40	7°43	20°25	22°46	22°21	22°56	15°7	23°13	S 26
M27	2 57 18	12°50'21	3°17	13°24	25°13	3°25	11°7	15°44	7°45	20°27	22°47	22°12	22°53	15°13	23°21	M27
T 28	3 1 15	13°50'46	16°49	12°4	24°43	3°57	11°21	15°49	7°47	20°29	22°47	22°2	22°50	15°20	23°29	T 28
W29	3 5 12	14°51'14	0°44	10°46	24°12	4°30	11°34	15°53	7°49	20°32	22°48	21°51	22°47	15°27	23°38	W29
T 30	3 9 8	15°51'43	15°1	9°34	23°39	5°2	11°47	15°58	7°51	20°34	22°48	21°40	22°44	15°33	23°46	T 30
F 31	3 13 5	16°52'13	29°32	8°29	23°15	5°34	12°10	16°2	7°53	20°36	22°49	21°31	22°41	15°40	23°54	F 31

Delta T = 06m10s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1460

geocentric

NOVEMBER 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 17 1	17 ¹¹ 52'45	14 ¹¹ 11	7 ¹⁰ R33	22 ¹⁰ R30	6 ¹⁰ 6	12 ¹⁰ M13	16 ¹⁰ 7	7 ¹⁰ 55	20 ¹⁰ 438	22 ¹⁰ 49	21 ¹⁰ R23	22 ¹⁰ 37	15 ¹⁰ 347	24 ¹⁰ 2	S 1
S 2	3 20 58	18 ¹⁰ 53'19	28 ¹⁰ 51	6 ¹⁰ M47	21 ¹⁰ M54	6 ¹⁰ 38	12 ¹⁰ 27	16 ¹⁰ 12	7 ¹⁰ 57	20 ¹⁰ 40	22 ¹⁰ 49	21 ¹⁰ 19	22 ¹⁰ 34	15 ¹⁰ 53	24 ¹⁰ 10	S 2
M 3	3 24 54	19 ¹⁰ 53'55	13 ¹⁰ 25	6 ¹⁰ 13	21 ¹⁰ 18	7 ¹⁰ 10	12 ¹⁰ 40	16 ¹⁰ 17	7 ¹⁰ 59	20 ¹⁰ 42	22 ¹⁰ 50	21 ¹⁰ 17	22 ¹⁰ 31	16 ¹⁰ 0	24 ¹⁰ 18	M 3
T 4	3 28 51	20 ¹⁰ 54'32	27 ¹⁰ 49	5 ¹⁰ 51	20 ¹⁰ 41	7 ¹⁰ 41	12 ¹⁰ 53	16 ¹⁰ 22	8 ¹⁰ 0	20 ¹⁰ 44	22 ¹⁰ 50	21 ¹⁰ D17	22 ¹⁰ 28	16 ¹⁰ 6	24 ¹⁰ 27	T 4
W 5	3 32 48	21 ¹⁰ 55'12	11 ¹⁰ 59	5 ¹⁰ D40	20 ¹⁰ 5	8 ¹⁰ 13	13 ¹⁰ 6	16 ¹⁰ 27	8 ¹⁰ 2	20 ¹⁰ 46	22 ¹⁰ 51	21 ¹⁰ 17	22 ¹⁰ 25	16 ¹⁰ 13	24 ¹⁰ 35	W 5
T 6	3 36 44	22 ¹⁰ 55'52	25 ¹⁰ 56	5 ¹⁰ 41	19 ¹⁰ 29	8 ¹⁰ 44	13 ¹⁰ 20	16 ¹⁰ 32	8 ¹⁰ 4	20 ¹⁰ 48	22 ¹⁰ 51	21 ¹⁰ R18	22 ¹⁰ 21	16 ¹⁰ 20	24 ¹⁰ 43	T 6
F 7	3 40 41	23 ¹⁰ 56'35	9 ¹⁰ 39	5 ¹⁰ 52	18 ¹⁰ 53	9 ¹⁰ 15	13 ¹⁰ 33	16 ¹⁰ 37	8 ¹⁰ 5	20 ¹⁰ 50	22 ¹⁰ 51	21 ¹⁰ 16	22 ¹⁰ 18	16 ¹⁰ 26	24 ¹⁰ 50	F 7
S 8	3 44 37	24 ¹⁰ 57'19	23 ¹⁰ 9	6 ¹⁰ 13	18 ¹⁰ 18	9 ¹⁰ 46	13 ¹⁰ 46	16 ¹⁰ 42	8 ¹⁰ 7	20 ¹⁰ 52	22 ¹⁰ 51	21 ¹⁰ 13	22 ¹⁰ 15	16 ¹⁰ 33	24 ¹⁰ 58	S 8
S 9	3 48 34	25 ¹⁰ 58'05	6 ¹⁰ 26	6 ¹⁰ 43	17 ¹⁰ 44	10 ¹⁰ 17	13 ¹⁰ 59	16 ¹⁰ 47	8 ¹⁰ 8	20 ¹⁰ 54	22 ¹⁰ 52	21 ¹⁰ 7	22 ¹⁰ 12	16 ¹⁰ 40	25 ¹⁰ 6	S 9
M10	3 52 30	26 ¹⁰ 58'52	19 ¹⁰ 31	7 ¹⁰ 21	17 ¹⁰ 12	10 ¹⁰ 48	14 ¹⁰ 12	16 ¹⁰ 53	8 ¹⁰ 9	20 ¹⁰ 56	22 ¹⁰ 52	20 ¹⁰ 59	22 ¹⁰ 9	16 ¹⁰ 46	25 ¹⁰ 14	M10
T 11	3 56 27	27 ¹⁰ 59'41	2 ¹⁰ M24	8 ¹⁰ 5	16 ¹⁰ 41	11 ¹⁰ 19	14 ¹⁰ 25	16 ¹⁰ 58	8 ¹⁰ 11	20 ¹⁰ 57	22 ¹⁰ 52	20 ¹⁰ 49	22 ¹⁰ 6	16 ¹⁰ 53	25 ¹⁰ 22	T 11
W12	4 0 23	29 ¹⁰ 0'31	15 ¹⁰ 5	8 ¹⁰ 57	16 ¹⁰ 11	11 ¹⁰ 49	14 ¹⁰ 38	17 ¹⁰ 4	8 ¹⁰ 12	20 ¹⁰ 59	22 ¹⁰ 52	20 ¹⁰ 39	22 ¹⁰ 2	17 ¹⁰ 0	25 ¹⁰ 30	W12
T 13	4 4 20	0 ¹⁰ 1'22	27 ¹⁰ 34	9 ¹⁰ 53	15 ¹⁰ 43	12 ¹⁰ 20	14 ¹⁰ 51	17 ¹⁰ 9	8 ¹⁰ 13	21 ¹⁰ 1	22 ¹⁰ 52	20 ¹⁰ 29	21 ¹⁰ 59	17 ¹⁰ 6	25 ¹⁰ 37	T 13
F 14	4 8 17	1 ¹⁰ 2'15	9 ¹⁰ 1'50	10 ¹⁰ 55	15 ¹⁰ 17	12 ¹⁰ 50	15 ¹⁰ 4	17 ¹⁰ 15	8 ¹⁰ 14	21 ¹⁰ 3	22 ¹⁰ 52	20 ¹⁰ 21	21 ¹⁰ 56	17 ¹⁰ 13	25 ¹⁰ 45	F 14
S 15	4 12 13	2 ¹⁰ 3'09	21 ¹⁰ 56	12 ¹⁰ 1	14 ¹⁰ 54	13 ¹⁰ 20	15 ¹⁰ 17	17 ¹⁰ 20	8 ¹⁰ 16	21 ¹⁰ 5	22 ¹⁰ R52	20 ¹⁰ 15	21 ¹⁰ 53	17 ¹⁰ 20	25 ¹⁰ 52	S 15
S 16	4 16 10	3 ¹⁰ 4'04	3 ¹⁰ 5'3	13 ¹⁰ 10	14 ¹⁰ 32	13 ¹⁰ 50	15 ¹⁰ 30	17 ¹⁰ 26	8 ¹⁰ 17	21 ¹⁰ 7	22 ¹⁰ 52	20 ¹⁰ 11	21 ¹⁰ 50	17 ¹⁰ 26	26 ¹⁰ 0	S 16
M17	4 20 6	4 ¹⁰ 4'59	15 ¹⁰ 42	14 ¹⁰ 23	14 ¹⁰ 13	14 ¹⁰ 20	15 ¹⁰ 43	17 ¹⁰ 32	8 ¹⁰ 18	21 ¹⁰ 8	22 ¹⁰ 52	20 ¹⁰ D 9	21 ¹⁰ 47	17 ¹⁰ 33	26 ¹⁰ 7	M17
T 18	4 24 3	5 ¹⁰ 5'56	27 ¹⁰ 28	15 ¹⁰ 38	13 ¹⁰ 56	14 ¹⁰ 49	15 ¹⁰ 56	17 ¹⁰ 38	8 ¹⁰ 19	21 ¹⁰ 10	22 ¹⁰ 52	20 ¹⁰ 9	21 ¹⁰ 43	17 ¹⁰ 40	26 ¹⁰ 15	T 18
W19	4 27 59	6 ¹⁰ 6'54	9 ¹⁰ 1'5	16 ¹⁰ 56	13 ¹⁰ 41	15 ¹⁰ 18	16 ¹⁰ 9	17 ¹⁰ 43	8 ¹⁰ 20	21 ¹⁰ 12	22 ¹⁰ 52	20 ¹⁰ 11	21 ¹⁰ 40	17 ¹⁰ 46	26 ¹⁰ 22	W19
T 20	4 31 56	7 ¹⁰ 7'52	21 ¹⁰ 7	18 ¹⁰ 15	13 ¹⁰ 29	15 ¹⁰ 48	16 ¹⁰ 22	17 ¹⁰ 49	8 ¹⁰ 20	21 ¹⁰ 13	22 ¹⁰ 52	20 ¹⁰ 12	21 ¹⁰ 37	17 ¹⁰ 53	26 ¹⁰ 29	T 20
F 21	4 35 52	8 ¹⁰ 8'51	3 ¹⁰ 9	19 ¹⁰ 37	13 ¹⁰ 19	16 ¹⁰ 17	16 ¹⁰ 35	17 ¹⁰ 55	8 ¹⁰ 21	21 ¹⁰ 15	22 ¹⁰ 52	20 ¹⁰ R13	21 ¹⁰ 34	17 ¹⁰ 59	26 ¹⁰ 37	F 21
S 22	4 39 49	9 ¹⁰ 9'51	15 ¹⁰ 26	21 ¹⁰ 0	13 ¹⁰ 12	16 ¹⁰ 45	16 ¹⁰ 48	18 ¹⁰ 1	8 ¹⁰ 22	21 ¹⁰ 17	22 ¹⁰ 52	20 ¹⁰ 13	21 ¹⁰ 31	18 ¹⁰ 6	26 ¹⁰ 44	S 22
S 23	4 43 46	10 ¹⁰ 10'51	28 ¹⁰ 4	22 ¹⁰ 24	13 ¹⁰ 7	17 ¹⁰ 14	17 ¹⁰ 0	18 ¹⁰ 7	8 ¹⁰ 23	21 ¹⁰ 18	22 ¹⁰ 51	20 ¹⁰ 12	21 ¹⁰ 27	18 ¹⁰ 13	26 ¹⁰ 51	S 23
M24	4 47 42	11 ¹⁰ 11'52	11 ¹⁰ 7	23 ¹⁰ 49	13 ¹⁰ D 5	17 ¹⁰ 42	17 ¹⁰ 13	18 ¹⁰ 13	8 ¹⁰ 23	21 ¹⁰ 20	22 ¹⁰ 51	20 ¹⁰ 8	21 ¹⁰ 24	18 ¹⁰ 19	26 ¹⁰ 58	M24
T 25	4 51 39	12 ¹⁰ 12'53	24 ¹⁰ 37	25 ¹⁰ 15	13 ¹⁰ 5	18 ¹⁰ 11	17 ¹⁰ 26	18 ¹⁰ 20	8 ¹⁰ 24	21 ¹⁰ 22	22 ¹⁰ 51	20 ¹⁰ 3	21 ¹⁰ 21	18 ¹⁰ 26	27 ¹⁰ 5	T 25
W26	4 55 35	13 ¹⁰ 13'55	8 ¹⁰ 3'6	26 ¹⁰ 42	13 ¹⁰ 8	18 ¹⁰ 39	17 ¹⁰ 38	18 ¹⁰ 26	8 ¹⁰ 24	21 ¹⁰ 23	22 ¹⁰ 50	19 ¹⁰ 57	21 ¹⁰ 18	18 ¹⁰ 33	27 ¹⁰ 12	W26
T 27	4 59 32	14 ¹⁰ 14'57	23 ¹⁰ 0	28 ¹⁰ 9	13 ¹⁰ 13	19 ¹⁰ 7	17 ¹⁰ 51	18 ¹⁰ 32	8 ¹⁰ 25	21 ¹⁰ 25	22 ¹⁰ 50	19 ¹⁰ 51	21 ¹⁰ 15	18 ¹⁰ 39	27 ¹⁰ 19	T 27
F 28	5 3 28	15 ¹⁰ 16'01	7 ¹⁰ 1'46	29 ¹⁰ 38	13 ¹⁰ 20	19 ¹⁰ 34	18 ¹⁰ 4	18 ¹⁰ 38	8 ¹⁰ 25	21 ¹⁰ 26	22 ¹⁰ 50	19 ¹⁰ 46	21 ¹⁰ 12	18 ¹⁰ 46	27 ¹⁰ 26	F 28
S 29	5 7 25	16 ¹⁰ 17'04	22 ¹⁰ 45	1 ¹⁰ 7	13 ¹⁰ 30	20 ¹⁰ 2	18 ¹⁰ 16	18 ¹⁰ 45	8 ¹⁰ 26	21 ¹⁰ 28	22 ¹⁰ 49	19 ¹⁰ 42	21 ¹⁰ 8	18 ¹⁰ 53	27 ¹⁰ 33	S 29
S 30	5 11 21	17 ¹⁰ 18'09	7 ¹⁰ 2'48	2 ¹⁰ 3'6	13 ¹⁰ M42	20 ¹⁰ 29	18 ¹⁰ M28	18 ¹⁰ 5'1	8 ¹⁰ 26	21 ¹⁰ 29	22 ¹⁰ 49	19 ¹⁰ 40	21 ¹⁰ 5	18 ¹⁰ 5'9	27 ¹⁰ 3'9	S 30

Delta T = 06m10s

Julian Calendar 1 Nov. 1460 == Greg. Calendar 10 Nov. 1460

DECEMBER 1460 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	5 15 18	18 ¹⁰ 19'14	22 ¹⁰ 347	4 ¹⁰ 6	13 ¹⁰ M56	20 ¹⁰ 56	18 ¹⁰ M41	18 ¹⁰ 5'8	8 ¹⁰ 26	21 ¹⁰ 31	22 ¹⁰ R49	19 ¹⁰ D40	21 ¹⁰ 2	19 ¹⁰ 3'6	27 ¹⁰ 46	M 1
T 2	5 19 15	19 ¹⁰ 20'21	7 ¹⁰ 234	5 ¹⁰ 36	14 ¹⁰ 12	21 ¹⁰ 23	18 ¹⁰ 53	19 ¹⁰ 4	8 ¹⁰ 26	21 ¹⁰ 32	22 ¹⁰ 48	19 ¹⁰ 41	20 ¹⁰ 59	19 ¹⁰ 13	27 ¹⁰ 52	T 2
W 3	5 23 11	20 ¹⁰ 21'27	22 ¹⁰ 4	7 ¹⁰ 6	14 ¹⁰ 30	21 ¹⁰ 49	19 ¹⁰ 6	19 ¹⁰ 10	8 ¹⁰ 26	21 ¹⁰ 33	22 ¹⁰ 48	19 ¹⁰ 42	20 ¹⁰ 56	19 ¹⁰ 19	27 ¹⁰ 59	W 3
T 4	5 27 8	21 ¹⁰ 22'35	6 ¹⁰ 113	8 ¹⁰ 37	14 ¹⁰ 51	22 ¹⁰ 16	19 ¹⁰ 18	19 ¹⁰ 17	8 ¹⁰ 26	21 ¹⁰ 35	22 ¹⁰ 47	19 ¹⁰ 44	20 ¹⁰ 53	19 ¹⁰ 26	28 ¹⁰ 5	T 4
F 5	5 31 4	22 ¹⁰ 23'43	20 ¹⁰ 0	10 ¹⁰ 8	15 ¹⁰ 13	22 ¹⁰ 42	19 ¹⁰ 30	19 ¹⁰ 24	8 ¹⁰ R26	21 ¹⁰ 36	22 ¹⁰ 46	19 ¹⁰ R44	20 ¹⁰ 49	19 ¹⁰ 32	28 ¹⁰ 12	F 5
S 6	5 35 1	23 ¹⁰ 24'52	3 ¹⁰ 26	11 ¹⁰ 39	15 ¹⁰ 37	23 ¹⁰ 7	19 ¹⁰ 42	19 ¹⁰ 30	8 ¹⁰ 26	21 ¹⁰ 37	22 ¹⁰ 46	19 ¹⁰ 44	20 ¹⁰ 46	19 ¹⁰ 39	28 ¹⁰ 18	S 6
S 7	5 38 57	24 ¹⁰ 26'02	16 ¹⁰ 34	13 ¹⁰ 11	16 ¹⁰ 3	23 ¹⁰ 33	19 ¹⁰ 54	19 ¹⁰ 37	8 ¹⁰ 26	21 ¹⁰ 39	22 ¹⁰ 45	19 ¹⁰ 42	20 ¹⁰ 43	19 ¹⁰ 46	28 ¹⁰ 24	S 7
M 8	5 42 54	25 ¹⁰ 27'12	29 ¹⁰ 24	14 ¹⁰ 43	16 ¹⁰ 30	23 ¹⁰ 58	20 ¹⁰ 6	19 ¹⁰ 44	8 ¹⁰ 26	21 ¹⁰ 40	22 ¹⁰ 45	19 ¹⁰ 40	20 ¹⁰ 40	19 ¹⁰ 52	28 ¹⁰ 30	M 8
T 9	5 46 50	26 ¹⁰ 28'23	11 ¹⁰ M59	16 ¹⁰ 15	16 ¹⁰ 59	24 ¹⁰ 24	20 ¹⁰ 18	19 ¹⁰ 50	8 ¹⁰ 26	21 ¹⁰ 41	22 ¹⁰ 44	19 ¹⁰ 36	20 ¹⁰ 37	19 ¹⁰ 59	28 ¹⁰ 36	T 9
W10	5 50 47	27 ¹⁰ 29'34	24 ¹⁰ 22	17 ¹⁰ 48	17 ¹⁰ 30	24 ¹⁰ 48	20 ¹⁰ 30	19 ¹⁰ 57	8 ¹⁰ 26	21 ¹⁰ 42	22 ¹⁰ 43	19 ¹⁰ 32	20 ¹⁰ 33	20 ¹⁰ 6	28 ¹⁰ 42	W10
T 11	5 54 44	28 ¹⁰ 30'46	6 ¹⁰ 134	19 ¹⁰ 20	18 ¹⁰ 3	25 ¹⁰ 13	20 ¹⁰ 42	20 ¹⁰ 4	8 ¹⁰ 25	21 ¹⁰ 43	22 ¹⁰ 42	19 ¹⁰ 28	20 ¹⁰ 30	20 ¹⁰ 12	28 ¹⁰ 48	T 11
F 12	5 58 40	29 ¹⁰ 31'58	18 ¹⁰ 38	20 ¹⁰ 53	18 ¹⁰ 37	25 ¹⁰ 37	20 ¹⁰ 54	20 ¹⁰ 10	8 ¹⁰ 25	21 ¹⁰ 44	22 ¹⁰ 42	19 ¹⁰ 25	20 ¹⁰ 27	20 ¹⁰ 19	28 ¹⁰ 54	F 12
S 13	6 2 37	0 ¹⁰ 3'33'10	0 ¹⁰ 3'34	22 ¹⁰ 27	19 ¹⁰ 12	26 ¹⁰ 1	21 ¹⁰ 5	20 ¹⁰ 17	8 ¹⁰ 24	21 ¹⁰ 46	22 ¹⁰ 41	19 ¹⁰ 23	20 ¹⁰ 24	20 ¹⁰ 26	28 ¹⁰ 59	S 13
S 14	6 6 33	1 ¹⁰ 34'23	12 ¹⁰ 25	24 ¹⁰ 0	19 ¹⁰ 48	26 ¹⁰ 25	21 ¹⁰ 17	20 ¹⁰ 24	8 ¹⁰ 24	21 ¹⁰ 47	22 ¹⁰ 40	19 ¹⁰ 22	20 ¹⁰ 21	20 ¹⁰ 32	29 ¹⁰ 5	S 14
M15	6 10 30	2 ¹⁰ 35'35	24 ¹⁰ 12	25 ¹⁰ 34	20 ¹⁰ 26	26 ¹⁰ 48	21 ¹⁰ 29	20 ¹⁰ 31	8 ¹⁰ 23	21 ¹⁰ 48	22 ¹⁰ 39	19 ¹⁰ D22	20 ¹⁰ 18	20 ¹⁰ 39	29 ¹⁰ 11	M15
T 16	6 14 26	3 ¹⁰ 36'48	5 ¹⁰ 59	27 ¹⁰ 8	21 ¹⁰ 6	27 ¹⁰ 11	21 ¹⁰ 40	20 ¹⁰ 38	8 ¹⁰ 23	21 ¹⁰ 49	22 ¹⁰ 38	19 ¹⁰ 23	20 ¹⁰ 14	20 ¹⁰ 46	29 ¹⁰ 16	T 16
W17	6 18 23	4 ¹⁰ 38'00	17 ¹⁰ 47	28 ¹⁰ 43	21 ¹⁰ 46	27 ¹⁰ 34	21 ¹⁰ 52	20 ¹⁰ 45	8 ¹⁰ 22	21 ¹⁰ 50	22 ¹⁰ 38	19 ¹⁰ 24	20 ¹⁰ 11	20 ¹⁰ 52	29 ¹⁰ 21	W17
T 18	6 22 19	5 ¹⁰ 39'12	29 ¹⁰ 41	0 ¹⁰ 3'18	22 ¹⁰ 28	27 ¹⁰ 57	22 ¹⁰ 3	20 ¹⁰ 52	8 ¹⁰ 21	21 ¹⁰ 51	22 ¹⁰ 37	19 ¹⁰ 25	20 ¹⁰ 8	20 ¹⁰ 59	29 ¹⁰ 27	T 18
F 19	6 26 16	6 ¹⁰ 40'24	11 ¹⁰ 43	1 ¹⁰ 53	23 ¹⁰ 10	28 ¹⁰ 19	22 ¹⁰ 14	20 ¹⁰ 59	8 ¹⁰ 21	21 ¹⁰ 51	22 ¹⁰ 36	19 ¹⁰ 27	20 ¹⁰ 5	21 ¹⁰ 6	29 ¹⁰ 32	F 19
S 20	6 30 13	7 ¹⁰ 41'35	23 ¹⁰ 59	3 ¹⁰ 29	23 ¹⁰ 54	28 ¹⁰ 41	22 ¹⁰ 25	21 ¹⁰ 6	8 ¹⁰ 20	21 ¹⁰ 52	22 ¹⁰ 35	19 ¹⁰ 28	20 ¹⁰ 2	21 ¹⁰ 12	29 ¹⁰ 37	S 20
S 21	6 34 9	8 ¹⁰ 42'46	6 ¹⁰ Y33	5 ¹⁰ 5	24 ¹⁰ 39	29 ¹⁰ 2	22 ¹⁰ 37	21 ¹⁰ 13	8 ¹⁰ 19	21 ¹⁰ 53	22 ¹⁰ 34	19 ¹⁰ R28	19 ¹⁰ 59	21 ¹⁰ 19	29 ¹⁰ 42	S 21
M22	6 38 6	9 ¹⁰ 43'56	19 ¹⁰ 28	6 ¹⁰ 41	25 ¹⁰ 25	29 ¹⁰ 23	22 ¹⁰ 48	21 ¹⁰ 20	8 ¹⁰ 18	21 ¹⁰ 54	22 ¹⁰ 33	19 ¹⁰ 28	19 ¹⁰ 55	21 ¹⁰ 25	29 ¹⁰ 47	M22
T 23	6 42 2	10 ¹⁰ 45'06	2 ¹⁰ 49	8 ¹⁰ 18	26 ¹⁰ 11	29 ¹⁰ 44	22 ¹⁰ 58	21 ¹⁰ 27	8 ¹⁰ 17	21 ¹⁰ 55	22 ¹⁰ 32	19 ¹⁰ 27	19 ¹⁰ 52	21 ¹⁰ 32	29 ¹⁰ 52	T 23
W24	6 45 59	11 ¹⁰ 46'15	16 ¹⁰ 38	9 ¹⁰ 55	26 ¹⁰ 59	0 ¹⁰ 4	23 ¹⁰ 9	21 ¹⁰ 34	8 ¹⁰ 16	21 ¹⁰ 55	22 ¹⁰ 31	19 ¹⁰ 26	19 ¹⁰ 49	21 ¹⁰ 39	29 ¹⁰ 56	W24
T 25	6 49 55	12 ¹⁰ 47'24	0 ¹⁰ II54	11 ¹⁰ 33	27 ¹⁰ 48	0 ¹⁰ 25	23 ¹⁰ 20	21 ¹⁰ 41	8 ¹⁰ 15	21 ¹⁰ 56	22 ¹⁰ 30	19 ¹⁰ 26	19 ¹⁰ 46	21 ¹⁰ 45	0 ¹⁰ 1	T 25
F 26	6 53 52	13 ¹⁰ 48'32	15 ¹⁰ 35	13 ¹⁰ 11	28 ¹⁰ 37	0 ¹⁰ 44	23 ¹⁰ 31	21 ¹⁰ 48	8 ¹⁰ 14	21 ¹⁰ 57	22 ¹⁰ 29	19 ¹⁰ 25	19 ¹⁰ 43	21 ¹⁰ 52	0 ¹⁰ 5	F 26
S 27	6 57 48	14 ¹⁰ 49'40	0 ¹⁰ 35	14 ¹⁰ 50	29 ¹⁰ 27	1 ¹⁰ 4	23 ¹⁰ 41	21 ¹⁰ 55	8 ¹⁰ 13	21 ¹⁰ 57	22 ¹⁰ 27	19 ¹⁰ 24	19 ¹⁰ 39	21 ¹⁰ 59	0 ¹⁰ 10	S 27
S 28	7 1 45	15 ¹⁰ 50'47	15 ¹⁰ 48	16 ¹⁰ 29	0 ¹⁰ 18	1 ¹⁰ 23	23 ¹⁰ 52	22 ¹⁰ 2	8 ¹⁰ 11	21 ¹⁰ 58	22 ¹⁰ 26	19 ¹⁰ D24	19 ¹⁰ 36	22 ¹⁰ 5	0 ¹⁰ 14	S 28
M29	7 5 42	16 ¹⁰ 51'54	1 ¹⁰ 2	18 ¹⁰ 9	1 ¹⁰ 10	1 ¹⁰ 41	24 ¹⁰ 2	22 ¹⁰ 9	8 ¹⁰ 10	21 ¹⁰ 59	22 ¹⁰ 25	19 ¹⁰ 24	19 ¹⁰ 33	22 ¹⁰ 12	0 ¹⁰ 18	M29
T 30	7 9 38	17 ¹⁰ 53'00	16 ¹⁰ 9	19 ¹⁰ 49	2 ¹⁰ 2	1 ¹⁰ 59	24 ¹⁰ 13	22 ¹⁰ 16	8 ¹⁰ 9	21 ¹⁰ 59	22 ¹⁰ 24	19 ¹⁰ 24	19 ¹⁰ 30	22 ¹⁰ 19	0 ¹⁰ 22	T 30
W31	7 13 35	18 ¹⁰ 5'4'06	0 ¹⁰ 5'9	21 ¹⁰ 3'29	2 ¹⁰ 5'6	2 ¹⁰ 1'17	24 ¹⁰ 13	22 ¹⁰ 3'23	8 ¹⁰ 7	22 ¹⁰ 3'0	22 ¹⁰ 2'23	19 ¹⁰ 2'24	19 ¹⁰ 2'27	22 ¹⁰ 3'25	0 ¹⁰ 1'26	W31