



Astrodienst Ephemeris Tables for the year 1470

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 1470

geocentric

JANUARY 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 16 51	19°34'09	2°38	22°R 0	22°41	17°35	3°R40	6°8 7	21°3 3	11°M20	10°R35	24°R59	25°320	28°344	27°340	M 1
T 2	7 20 47	20°45'16	14°30	20°343	23°54	17°50	3°M36	6° 7	21° 4	11°21	10°M34	24°359	25°17	28°51	27°45	T 2
W 3	7 24 44	21°46'23	26°18	19°25	25° 8	18° 6	3°32	6° 8	21° 5	11°22	10°33	24°D59	25°14	28°57	27°50	W 3
T 4	7 28 40	22°47'29	8°5	18° 9	26°22	18°22	3°27	6° 8	21° 6	11°23	10°32	24°59	25°11	29° 4	27°55	T 4
F 5	7 32 37	23°48'35	19°53	16°56	27°35	18°38	3°23	6° 9	21° 6	11°24	10°31	24°59	25° 8	29°11	28° 0	F 5
S 6	7 36 33	24°49'39	1°45	15°49	28°49	18°55	3°18	6°10	21° 7	11°25	10°30	24°R59	25° 5	29°17	28° 5	S 6
S 7	7 40 30	25°50'43	13°43	14°49	0°X 2	19°12	3°13	6°11	21° 7	11°26	10°29	24°59	25° 1	29°24	28°10	S 7
M 8	7 44 26	26°51'45	25°51	13°57	1°15	19°30	3° 8	6°12	21° 8	11°27	10°28	24°59	24°58	29°30	28°15	M 8
T 9	7 48 23	27°52'46	8°Y12	13°13	2°29	19°48	3° 3	6°13	21° 8	11°28	10°27	24°58	24°55	29°37	28°20	T 9
W10	7 52 20	28°53'47	20°50	12°38	3°42	20° 6	2°57	6°14	21° 9	11°29	10°26	24°58	24°52	29°44	28°25	W10
T11	7 56 16	29°54'46	3°B49	12°13	4°55	20°25	2°52	6°15	21° 9	11°29	10°25	24°D58	24°49	29°50	28°30	T11
F12	8 0 13	0°55'44	17°12	11°56	6° 8	20°45	2°46	6°17	21° 9	11°30	10°24	24°58	24°45	29°57	28°35	F12
S13	8 4 9	1°56'40	1°II 0	11°47	7°21	21° 5	2°41	6°19	21°10	11°31	10°23	24°59	24°42	0°X 4	28°40	S13
S14	8 8 6	2°57'36	15°16	11°D47	8°34	21°25	2°35	6°20	21°10	11°32	10°21	25° 0	24°39	0°10	28°45	S14
M15	8 12 2	3°58'30	29°55	11°54	9°47	21°46	2°29	6°22	21°10	11°32	10°20	25° 0	24°36	0°17	28°50	M15
T16	8 15 59	4°59'23	14°55	12° 8	11° 0	22° 7	2°22	6°24	21°R10	11°33	10°19	25° 1	24°33	0°24	28°55	T16
W17	8 19 56	6° 0'14	0°Q 7	12°29	12°12	22°28	2°16	6°26	21°10	11°33	10°18	25°R 1	24°30	0°30	29° 0	W17
T18	8 23 52	7° 1'05	15°21	12°55	13°25	22°49	2°10	6°28	21°10	11°34	10°17	25° 0	24°26	0°37	29° 4	T18
F19	8 27 49	8° 1'54	0°M29	13°27	14°38	23°11	2° 3	6°30	21°10	11°35	10°15	24°59	24°23	0°44	29° 9	F19
S20	8 31 45	9° 2'42	15°21	14° 4	15°50	23°34	1°56	6°33	21° 9	11°35	10°14	24°58	24°20	0°50	29°14	S20
S21	8 35 42	10° 3'29	29°49	14°46	17° 3	23°56	1°50	6°35	21° 9	11°35	10°13	24°56	24°17	0°57	29°19	S21
M22	8 39 38	11° 4'15	13°51	15°31	18°15	24°19	1°43	6°38	21° 9	11°36	10°11	24°54	24°14	1° 4	29°24	M22
T23	8 43 35	12° 5'00	27°24	16°21	19°27	24°43	1°36	6°40	21° 9	11°36	10°10	24°52	24°11	1°10	29°29	T23
W24	8 47 31	13° 5'44	10°M31	17°14	20°39	25° 6	1°29	6°43	21° 8	11°37	10° 9	24°D52	24° 7	1°17	29°34	W24
T25	8 51 28	14° 6'27	23°13	18°10	21°52	25°30	1°21	6°46	21° 8	11°37	10° 7	24°52	24° 4	1°23	29°39	T25
F26	8 55 25	15° 7'09	5°X36	19° 9	23° 4	25°54	1°14	6°49	21° 7	11°37	10° 6	24°53	24° 1	1°30	29°44	F26
S27	8 59 21	16° 7'49	17°44	20°11	24°16	26°19	1° 7	6°52	21° 7	11°37	10° 4	24°55	23°58	1°37	29°48	S27
S28	9 3 18	17° 8'29	29°40	21°15	25°27	26°43	0°59	6°55	21° 6	11°38	10° 3	24°56	23°55	1°43	29°53	S28
M29	9 7 14	18° 9'07	11°30	22°22	26°39	27° 8	0°52	6°59	21° 5	11°38	10° 2	24°58	23°51	1°50	29°58	M29
T30	9 11 11	19° 9'44	23°16	23°30	27°51	27°33	0°44	7° 2	21° 5	11°38	10° 0	24°R59	23°48	1°57	0°X 3	T30
W31	9 15 7	20°10'19	5°X 3	24°341	29°X 2	27°B59	0°M37	7°B 5	21°B 4	11°M38	9°M59	24°B58	23°B45	2°X 3	0°X 8	W31

Delta T = 05m52s

Julian Calendar 1 Jan. 1470 == Greg. Calendar 10 Jan. 1470

FEBRUARY 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 19 4	21°10'53	16°52	25°34	0°Y14	28°B25	0°R29	7°B 9	21°R 3	11°M38	9°R57	24°R56	23°342	2°X10	0°X12	T 1
F 2	9 23 0	22°11'26	28°46	27° 8	1°25	28°51	0°M21	7°13	21°B 2	11°38	9°M56	24°B53	23°39	2°17	0°17	F 2
S 3	9 26 57	23°11'56	10°X46	28°24	2°37	29°17	0°14	7°16	21° 1	11°R38	9°54	24°49	23°36	2°23	0°22	S 3
S 4	9 30 54	24°12'25	22°55	29°41	3°48	29°43	0° 6	7°20	21° 0	11°38	9°53	24°43	23°32	2°30	0°26	S 4
M 5	9 34 50	25°12'52	5°Y13	1°X 0	4°59	0°II10	29°B58	7°24	20°59	11°38	9°51	24°38	23°29	2°37	0°31	M 5
T 6	9 38 47	26°13'18	17°43	2°21	6°10	0°37	29°50	7°28	20°58	11°38	9°50	24°33	23°26	2°43	0°36	T 6
W 7	9 42 43	27°13'41	0°B26	3°42	7°20	1° 4	29°42	7°32	20°57	11°38	9°48	24°29	23°23	2°50	0°40	W 7
T 8	9 46 40	28°14'03	13°26	5° 6	8°31	1°31	29°34	7°37	20°56	11°38	9°47	24°26	23°20	2°57	0°45	T 8
F 9	9 50 36	29°14'22	26°43	6°30	9°42	1°59	29°26	7°41	20°55	11°38	9°45	24°D25	23°17	3° 3	0°49	F 9
S10	9 54 33	0°X14'40	10°II21	7°55	10°52	2°26	29°19	7°45	20°53	11°37	9°43	24°26	23°13	3°10	0°54	S10
S11	9 58 29	1°14'55	24°20	9°22	12° 3	2°54	29°11	7°50	20°52	11°37	9°42	24°27	23°10	3°16	0°58	S11
M12	10 2 26	2°15'09	8°B41	10°50	13°13	3°22	29° 3	7°55	20°51	11°37	9°40	24°28	23° 7	3°23	1° 3	M12
T13	10 6 23	3°15'29	23°21	12°19	14°23	3°51	28°55	7°59	20°49	11°36	9°39	24°R29	23° 4	3°30	1° 7	T13
W14	10 10 19	4°15'29	8°Q17	13°50	15°33	4°19	28°47	8° 4	20°48	11°36	9°37	24°28	23° 1	3°36	1°11	W14
T15	10 14 16	5°15'37	23°20	15°21	16°42	4°48	28°39	8° 9	20°46	11°36	9°36	24°26	22°57	3°43	1°16	T15
F16	10 18 12	6°15'42	8°M23	16°53	17°52	5°17	28°32	8°14	20°45	11°35	9°34	24°21	22°54	3°50	1°20	F16
S17	10 22 9	7°15'45	23°17	18°27	19° 2	5°46	28°24	8°19	20°43	11°35	9°32	24°15	22°51	3°56	1°24	S17
S18	10 26 5	8°15'47	7°B52	20° 2	20°11	6°15	28°16	8°24	20°42	11°34	9°31	24° 8	22°48	4° 3	1°29	S18
M19	10 30 2	9°15'46	22° 2	21°38	21°20	6°44	28° 9	8°29	20°40	11°34	9°29	24° 1	22°45	4°10	1°33	M19
T20	10 33 58	10°15'44	5°M45	23°15	22°29	7°13	28° 1	8°34	20°38	11°33	9°28	23°55	22°42	4°16	1°37	T20
W21	10 37 55	11°15'41	18°59	24°53	23°38	7°43	27°54	8°39	20°36	11°33	9°26	23°50	22°38	4°23	1°41	W21
T22	10 41 51	12°15'36	1°X47	26°32	24°47	8°13	27°46	8°45	20°35	11°32	9°24	23°48	22°35	4°30	1°45	T22
F23	10 45 48	13°15'29	14°12	28°12	25°55	8°42	27°39	8°50	20°33	11°31	9°23	23°D47	22°32	4°36	1°49	F23
S24	10 49 45	14°15'20	26°20	29°54	27° 4	9°12	27°31	8°56	20°31	11°31	9°21	23°48	22°29	4°43	1°53	S24
S25	10 53 41	15°15'10	8°B15	1°X37	28°12	9°43	27°24	9° 1	20°29	11°30	9°20	23°49	22°26	4°50	1°57	S25
M26	10 57 38	16°14'58	20° 3	3°21	29°20	10°13	27°17	9° 7	20°27	11°29	9°18	23°R50	22°23	4°56	2° 1	M26
T27	11 1 34	17°14'44	1°X49	5° 6	0°B28	10°43	27°10	9°13	20°25	11°29	9°17	23°50	22°19	5° 3	2° 5	T27
W28	11 5 31	18°X14'28	13°X37	6°X52	1°B35	11°II14	27°Q 3	9°B19	20°B23	11°M28	9°M15	23°B47	22°B16	5°X 9	2°X 9	W28

Delta T = 05m52s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1470

geocentric

MARCH 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 9 27	19°14'11"	25°30'	8°40'	2°43'	11°44'	26°R56	9°B24	20°R21	11°R27	9°R13	23°R43	22°B13	5°16'	2°13'	T 1
F 2	11 13 24	20°13'51"	7°32'	10°28'	3°50'	12°15'	26°Q49	9°30'	20°A19	11°M26	9°M12	23°B36	22°10'	5°23'	2°16'	F 2
S 3	11 17 20	21°13'30"	19°44'	12°18'	4°57'	12°46'	26°43'	9°36'	20°17'	11°25'	9°10'	23°26'	22° 7'	5°29'	2°20'	S 3
S 4	11 21 17	22°13'06"	2°7'	14°10'	6° 4'	13°17'	26°36'	9°42'	20°15'	11°24'	9° 9'	23°15'	22° 3'	5°36'	2°24'	S 4
M 5	11 25 14	23°12'40"	14°42'	16° 2'	7°11'	13°48'	26°30'	9°49'	20°13'	11°23'	9° 7'	23° 4'	22° 0'	5°43'	2°27'	M 5
T 6	11 29 10	24°12'13"	27°28'	17°56'	8°17'	14°20'	26°23'	9°55'	20°10'	11°22'	9° 6'	22°53'	21°57'	5°49'	2°31'	T 6
W 7	11 33 7	25°11'43"	10°B27	19°51'	9°23'	14°51'	26°17'	10° 1'	20° 8'	11°21'	9° 4'	22°44'	21°54'	5°56'	2°34'	W 7
T 8	11 37 3	26°11'10"	23°38'	21°47'	10°29'	15°23'	26°11'	10° 7'	20° 6'	11°20'	9° 3'	22°38'	21°51'	6° 3'	2°38'	T 8
F 9	11 41 0	27°10'36"	7°II 2	23°44'	11°35'	15°54'	26° 5'	10°14'	20° 4'	11°19'	9° 1'	22°33'	21°48'	6° 9'	2°41'	F 9
S 10	11 44 56	28° 9'59"	20°39'	25°43'	12°40'	16°26'	26° 0'	10°20'	20° 1'	11°18'	9° 0'	22°32'	21°44'	6°16'	2°44'	S 10
S 11	11 48 53	29° 9'20"	4°B30	27°42'	13°46'	16°58'	25°54'	10°27'	19°59'	11°17'	8°58'	22°D32	21°41'	6°23'	2°48'	S 11
M12	11 52 49	0°Y 8'38"	18°36'	29°43'	14°51'	17°30'	25°49'	10°33'	19°57'	11°16'	8°57'	22°R32	21°38'	6°29'	2°51'	M12
T 13	11 56 46	1° 7'54"	2°Q56	1°Y45	15°56'	18° 1'	25°43'	10°40'	19°54'	11°15'	8°55'	22°32'	21°35'	6°36'	2°54'	T 13
W14	12 0 43	2° 7'08"	17°29'	3°47'	17° 0'	18°34'	25°38'	10°46'	19°52'	11°14'	8°54'	22°29'	21°32'	6°43'	2°57'	W14
T 15	12 4 39	3° 6'19"	2°M 9	5°50'	18° 4'	19° 6'	25°33'	10°53'	19°50'	11°13'	8°52'	22°25'	21°29'	6°49'	3° 0'	T 15
F 16	12 8 36	4° 5'28"	16°52'	7°53'	19° 8'	19°38'	25°28'	11° 0'	19°47'	11°11'	8°51'	22°17'	21°25'	6°56'	3° 3'	F 16
S 17	12 12 32	5° 4'35"	1°A29	9°57'	20°12'	20°10'	25°23'	11° 6'	19°45'	11°10'	8°50'	22° 7'	21°22'	7° 2'	3° 6'	S 17
S 18	12 16 29	6° 3'40"	15°54'	12° 1'	21°15'	20°43'	25°19'	11°13'	19°42'	11° 9'	8°48'	21°56'	21°19'	7° 9'	3° 9'	S 18
M19	12 20 25	7° 2'42"	29°59'	14° 5'	22°18'	21°15'	25°15'	11°20'	19°40'	11° 8'	8°47'	21°45'	21°16'	7°16'	3°12'	M19
T 20	12 24 22	8° 1'43"	13°M40	16° 8'	23°21'	21°48'	25°10'	11°27'	19°37'	11° 6'	8°45'	21°35'	21°13'	7°22'	3°15'	T 20
W21	12 28 18	9° 0'42"	26°56'	18°11'	24°23'	22°20'	25° 6'	11°34'	19°35'	11° 5'	8°44'	21°26'	21° 9'	7°29'	3°18'	W21
T 22	12 32 15	9°59'40"	9°A47	20°12'	25°25'	22°53'	25° 2'	11°41'	19°32'	11° 4'	8°43'	21°20'	21° 6'	7°36'	3°20'	T 22
F 23	12 36 12	10°58'35"	22°15'	22°12'	26°27'	23°26'	24°59'	11°48'	19°30'	11° 2'	8°41'	21°17'	21° 3'	7°42'	3°23'	F 23
S 24	12 40 8	11°57'29"	4°B26	24°10'	27°28'	23°59'	24°55'	11°55'	19°27'	11° 1'	8°40'	21°16'	21° 0'	7°49'	3°25'	S 24
S 25	12 44 5	12°56'20"	16°23'	26° 7'	28°29'	24°32'	24°52'	12° 2'	19°25'	11° 0'	8°39'	21°16'	20°57'	7°56'	3°28'	S 25
M26	12 48 1	13°55'11"	28°12'	28° 0'	29°29'	25° 5'	24°48'	12° 9'	19°22'	10°58'	8°38'	21°16'	20°54'	8° 2'	3°30'	M26
T 27	12 51 58	14°53'59"	9°A59	29°51'	0°II30	25°38'	24°45'	12°17'	19°20'	10°57'	8°36'	21°15'	20°50'	8° 9'	3°33'	T 27
W28	12 55 54	15°52'45"	21°50'	1°B39	1°29'	26°11'	24°43'	12°24'	19°17'	10°56'	8°35'	21°11'	20°47'	8°16'	3°35'	W28
T 29	12 59 51	16°51'30"	3°H48	3°23'	2°29'	26°45'	24°40'	12°31'	19°14'	10°54'	8°34'	21° 6'	20°44'	8°22'	3°37'	T 29
F 30	13 3 47	17°50'13"	15°57'	5° 3'	3°28'	27°18'	24°37'	12°39'	19°12'	10°53'	8°33'	20°57'	20°41'	8°29'	3°40'	F 30
S 31	13 7 44	18°Y48'54"	28°H20	6°B39	4°II26	27°II51	24°Q35	12°B46	19°A 9	10°M51	8°M32	20°B46	20°B38	8°A36	3°A42	S 31

Delta T = 05m52s

Julian Calendar 1 March 1470 == Greg. Calendar 10 March 1470

APRIL 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 11 40	19°Y47'33"	10°Y58	8°B11	5°II24	28°II25	24°R33	12°B53	19°R 7	10°R50	8°R31	20°R33	20°B34	8°A42	3°A44	S 1
M 2	13 15 37	20°46'10"	23°52'	9°39'	6°22'	28°58'	24°Q31	13° 1'	19°A 4	10°M48	8°M30	20°B20	20°31'	8°49'	3°46'	M 2
T 3	13 19 34	21°44'45"	7°B 0	11° 2'	7°19'	29°32'	24°29'	13° 8'	19° 2'	10°47'	8°28'	20° 7'	20°28'	8°56'	3°48'	T 3
W 4	13 23 30	22°43'18"	20°21'	12°20'	8°16'	0°B 6	24°28'	13°15'	18°59'	10°45'	8°27'	19°56'	20°25'	9° 2'	3°50'	W 4
T 5	13 27 27	23°41'50"	3°II53	13°34'	9°12'	0°39'	24°26'	13°23'	18°57'	10°44'	8°26'	19°48'	20°22'	9° 9'	3°51'	T 5
F 6	13 31 23	24°40'19"	17°34'	14°42'	10° 7'	1°13'	24°25'	13°30'	18°54'	10°42'	8°25'	19°43'	20°19'	9°16'	3°53'	F 6
S 7	13 35 20	25°38'46"	1°B23	15°45'	11° 2'	1°47'	24°24'	13°38'	18°51'	10°41'	8°24'	19°40'	20°15'	9°22'	3°55'	S 7
S 8	13 39 16	26°37'11"	15°19'	16°43'	11°57'	2°21'	24°23'	13°46'	18°49'	10°39'	8°23'	19°39'	20°12'	9°29'	3°56'	S 8
M 9	13 43 13	27°35'33"	29°22'	17°36'	12°51'	2°55'	24°23'	13°53'	18°46'	10°37'	8°23'	19°39'	20° 9'	9°35'	3°58'	M 9
T 10	13 47 9	28°33'54"	13°Q31	18°23'	13°44'	3°29'	24°22'	14° 1'	18°44'	10°36'	8°22'	19°38'	20° 6'	9°42'	3°59'	T 10
W11	13 51 6	29°32'12"	27°45'	19° 5'	14°37'	4° 3'	24°22'	14° 8'	18°41'	10°34'	8°21'	19°36'	20° 3'	9°49'	4° 1'	W11
T 12	13 55 3	0°B30'28"	12°M 2	19°41'	15°28'	4°37'	24°D22	14°16'	18°39'	10°33'	8°20'	19°31'	20° 0'	9°55'	4° 2'	T 12
F 13	13 58 59	1°28'42"	26°18'	20°12'	16°20'	5°11'	24°22'	14°24'	18°36'	10°31'	8°19'	19°24'	19°56'	10° 2'	4° 3'	F 13
S 14	14 2 56	2°26'54"	10°A30	20°37'	17°10'	5°45'	24°22'	14°31'	18°34'	10°29'	8°18'	19°14'	19°53'	10° 9'	4° 5'	S 14
S 15	14 6 52	3°25'05"	24°31'	20°57'	18° 0'	6°20'	24°23'	14°39'	18°31'	10°28'	8°17'	19° 3'	19°50'	10°15'	4° 6'	S 15
M16	14 10 49	4°23'13"	8°M18	21°11'	18°49'	6°54'	24°24'	14°47'	18°29'	10°26'	8°17'	18°51'	19°47'	10°22'	4° 7'	M16
T 17	14 14 45	5°21'20"	21°46'	21°20'	19°37'	7°28'	24°24'	14°54'	18°27'	10°25'	8°16'	18°41'	19°44'	10°29'	4° 8'	T 17
W18	14 18 42	6°19'25"	4°A53	21°R24	20°25'	8° 3'	24°25'	15° 2'	18°24'	10°23'	8°15'	18°32'	19°40'	10°35'	4° 9'	W18
T 19	14 22 38	7°17'29"	17°39'	21°22'	21°11'	8°37'	24°27'	15°10'	18°22'	10°21'	8°15'	18°26'	19°37'	10°42'	4° 9'	T 19
F 20	14 26 35	8°15'31"	0°B 6	21°15'	21°57'	9°12'	24°28'	15°18'	18°19'	10°20'	8°14'	18°22'	19°34'	10°49'	4°10'	F 20
S 21	14 30 32	9°13'31"	12°17'	21° 4'	22°42'	9°46'	24°30'	15°25'	18°17'	10°18'	8°13'	18°20'	19°31'	10°55'	4°11'	S 21
S 22	14 34 28	10°11'31"	24°15'	20°48'	23°26'	10°21'	24°31'	15°33'	18°15'	10°16'	8°13'	18°D20	19°28'	11° 2'	4°12'	S 22
M23	14 38 25	11° 9'29"	6°A 6	20°28'	24° 8'	10°55'	24°33'	15°41'	18°12'	10°15'	8°12'	18°R21	19°25'	11° 9'	4°12'	M23
T 24	14 42 21	12° 7'25"	17°55'	20° 4'	24°50'	11°30'	24°35'	15°49'	18°10'	10°13'	8°12'	18°21'	19°21'	11°15'	4°13'	T 24
W25	14 46 18	13° 5'20"	29°47'	19°37'	25°31'	12° 5'	24°38'	15°56'	18° 8'	10°12'	8°11'	18°19'	19°18'	11°22'	4°13'	W25
T 26	14 50 14	14° 3'14"	11°H48	19° 7'	26°11'	12°40'	24°40'	16° 4'	18° 6'	10°10'	8°11'	18°16'	19°15'	11°29'	4°13'	T 26
F 27	14 54 11	15° 1'06"	24° 2	18°34'	26°49'	13°14'	24°43'	16°12'	18° 3'	10° 8'	8°10'	18°10'	19°12'	11°35'	4°14'	F 27
S 28	14 58 7	15°58'58"	6°Y33	18° 1'	27°27'	13°49'	24°45'	16°20'	18° 1'	10° 7'	8°10'	18° 2'	19° 9'	11°42'	4°14'	S 28
S 29	15 2 4	16°56'48"	19°22'	17°26'	28° 3'	14°24'	24°48'	16°28'	17°59'	10° 5'	8°10'	17°52'	19° 6'	11°49'	4°14'	S 29
M30	15 6 1	17°B54'36"	2°B31	16°B50	28°II38	14°B59	24°Q52	16°B35	17°A57	10°M 3	8°M 9	17°B42	19°B 2	11°A55	4°A14	M30

Delta T = 05m52s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1470

geocentric

MAY 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 9 57	18°52'24	15°59	16°R15	29°II11	15°34	24°55	16°843	17°R55	10°R 2	8°R 9	17°R32	18°59	12°2	4°R14	T 1
W 2	15 13 54	19°50'10	29°43	15°841	29°43	16° 9	24°58	16°51	17°53	10°M 0	8°M 9	17°53	18°56	12° 9	4°14	W 2
T 3	15 17 50	20°47'54	13°II40	15° 8	0°514	16°44	25° 2	16°59	17°51	9°59	8° 8	17°17	18°53	12°15	4°14	T 3
F 4	15 21 47	21°45'37	27°45	14°37	0°43	17°19	25° 6	17° 7	17°49	9°57	8° 8	17°13	18°50	12°22	4°14	F 4
S 5	15 25 43	22°43'19	11°56	14° 8	1°11	17°54	25°10	17°14	17°47	9°55	8° 8	17°D12	18°46	12°29	4°14	S 5
S 6	15 29 40	23°40'59	26° 9	13°42	1°37	18°30	25°14	17°22	17°45	9°54	8° 8	17°12	18°43	12°35	4°13	S 6
M 7	15 33 36	24°38'37	10°21	13°20	2° 2	19° 5	25°18	17°30	17°43	9°52	8° 8	17°13	18°40	12°42	4°13	M 7
T 8	15 37 33	25°36'14	24°31	13° 1	2°24	19°40	25°23	17°38	17°41	9°51	8° 8	17°R13	18°37	12°49	4°12	T 8
W 9	15 41 30	26°33'49	8°M38	12°46	2°45	20°15	25°27	17°45	17°39	9°49	8° 8	17°13	18°34	12°55	4°12	W 9
T 10	15 45 26	27°31'23	22°39	12°35	3° 4	20°51	25°32	17°53	17°38	9°48	8° 8	17°10	18°31	13° 2	4°11	T 10
F 11	15 49 23	28°28'55	6°54	12°28	3°21	21°26	25°37	18° 1	17°36	9°46	8°D 8	17° 6	18°27	13° 8	4°11	F 11
S 12	15 53 19	29°26'26	20°19	12°D26	3°37	22° 2	25°42	18° 8	17°34	9°45	8° 8	16°59	18°24	13°15	4°10	S 12
S 13	15 57 16	0°II23'56	3°M54	12°28	3°50	22°37	25°47	18°16	17°33	9°43	8° 8	16°52	18°21	13°22	4° 9	S 13
M14	16 1 12	1°21'24	17°16	12°35	4° 1	23°12	25°53	18°24	17°31	9°42	8° 8	16°44	18°18	13°28	4° 8	M14
T 15	16 5 9	2°18'51	0°23	12°46	4°10	23°48	25°58	18°31	17°29	9°40	8° 8	16°37	18°15	13°35	4° 7	T 15
W16	16 9 5	3°16'18	13°13	13° 1	4°17	24°24	26° 4	18°39	17°28	9°39	8° 8	16°31	18°11	13°42	4° 6	W16
T 17	16 13 2	4°13'43	25°48	13°21	4°21	24°59	26°10	18°47	17°26	9°37	8° 8	16°28	18° 8	13°48	4° 5	T 17
F 18	16 16 59	5°11'08	8°3	13°46	4°R23	25°35	26°16	18°54	17°25	9°36	8° 8	16°26	18° 5	13°55	4° 4	F 18
S 19	16 20 55	6° 8'31	20°13	14°14	4°23	26°10	26°22	19° 2	17°23	9°34	8° 9	16°D25	18° 2	14° 2	4° 3	S 19
S 20	16 24 52	7° 5'54	2°10	14°47	4°21	26°46	26°28	19° 9	17°22	9°33	8° 9	16°26	17°59	14° 8	4° 2	S 20
M21	16 28 48	8° 3'16	14° 1	15°24	4°16	27°22	26°34	19°17	17°21	9°32	8° 9	16°28	17°56	14°15	4° 0	M21
T 22	16 32 45	9° 0'38	25°50	16° 5	4° 9	27°58	26°41	19°25	17°19	9°30	8°10	16°29	17°52	14°22	3°59	T 22
W23	16 36 41	9°57'59	7°H43	16°50	3°59	28°33	26°48	19°32	17°18	9°29	8°10	16°R30	17°49	14°28	3°57	W23
T 24	16 40 38	10°55'19	19°45	17°39	3°47	29° 9	26°54	19°39	17°17	9°27	8°10	16°30	17°46	14°35	3°56	T 24
F 25	16 44 34	11°52'39	2°Y 0	18°32	3°33	29°45	27° 1	19°47	17°16	9°26	8°11	16°28	17°43	14°42	3°54	F 25
S 26	16 48 31	12°49'58	14°34	19°28	3°16	0°21	27° 8	19°54	17°15	9°25	8°11	16°25	17°40	14°48	3°53	S 26
S 27	16 52 28	13°47'17	27°28	20°28	2°57	0°57	27°16	20° 2	17°14	9°24	8°12	16°20	17°37	14°55	3°51	S 27
M28	16 56 24	14°44'36	10°844	21°31	2°36	1°33	27°23	20° 9	17°13	9°22	8°12	16°16	17°33	15° 2	3°49	M28
T 29	17 0 21	15°41'54	24°24	22°38	2°12	2° 9	27°30	20°16	17°12	9°21	8°13	16°11	17°30	15° 8	3°47	T 29
W30	17 4 17	16°39'11	8°II25	23°49	1°47	2°45	27°38	20°24	17°11	9°20	8°13	16° 7	17°27	15°15	3°46	W30
T 31	17 8 14	17°II36'29	22°II43	25°8 3	1°59	3°21	27°46	20°31	17°10	9°19	8°14	16°3	17°24	15°22	3°44	T 31

Delta T = 05m52s

Julian Calendar 1 May 1470 == Greg. Calendar 10 May 1470

JUNE 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 12 10	18°II33'45	7°514	26°820	0°R50	3°57	27°53	20°838	17°R 9	9°R17	8°M15	16°R 2	17°321	15°28	3°R42	F 1
S 2	17 16 7	19°31'01	21°50	27°40	0°519	4°33	28° 1	20°45	17°5	9°M16	8°15	16°D 2	17°18	15°35	3°40	S 2
S 3	17 20 4	20°28'16	6°26	29° 4	29°II46	5° 9	28° 9	20°52	17° 8	9°15	8°16	16°3	17°14	15°42	3°37	S 3
M 4	17 24 0	21°25'31	20°58	0°II30	29°12	5°45	28°18	21° 0	17° 7	9°14	8°17	16° 5	17°11	15°48	3°35	M 4
T 5	17 27 57	22°22'44	5°M20	2° 0	28°37	6°22	28°26	21° 7	17° 6	9°13	8°18	16° 6	17° 8	15°55	3°33	T 5
W 6	17 31 53	23°19'57	19°30	3°34	28° 1	6°58	28°34	21°14	17° 6	9°12	8°18	16°R 6	17° 5	16° 2	3°31	W 6
T 7	17 35 50	24°17'10	3°26	5°10	27°24	7°34	28°43	21°21	17° 5	9°11	8°19	16° 6	17° 2	16° 8	3°29	T 7
F 8	17 39 46	25°14'21	17° 8	6°49	26°47	8°10	28°52	21°28	17° 5	9°10	8°20	16° 5	16°58	16°15	3°26	F 8
S 9	17 43 43	26°11'33	0°M35	8°32	26° 9	8°47	29° 0	21°35	17° 5	9° 9	8°21	16° 3	16°55	16°22	3°24	S 9
S 10	17 47 39	27° 8'43	13°48	10°17	25°32	9°23	29° 9	21°41	17° 4	9° 8	8°22	16° 1	16°52	16°28	3°21	S 10
M11	17 51 36	28° 5'54	26°46	12° 5	24°54	10° 0	29°18	21°48	17° 4	9° 7	8°23	15°58	16°49	16°35	3°19	M11
T 12	17 55 33	29° 3'04	9°231	13°57	24°18	10°36	29°27	21°55	17° 4	9° 6	8°24	15°56	16°46	16°42	3°16	T 12
W13	17 59 29	0°57'14	22° 2	15°50	23°41	11°12	29°36	22° 2	17° 3	9° 5	8°25	15°54	16°43	16°48	3°14	W13
T 14	18 3 26	0°57'23	4°322	17°47	23° 6	11°49	29°45	22° 8	17° 3	9° 4	8°26	15°53	16°39	16°55	3°11	T 14
F 15	18 7 22	1°54'33	16°30	19°46	22°32	12°25	29°55	22°15	17° 3	9° 3	8°27	15°D52	16°36	17° 2	3° 8	F 15
S 16	18 11 19	2°51'42	28°30	21°47	21°59	13° 2	0°M4	22°22	17°D 3	9° 3	8°28	15°53	16°33	17° 8	3° 6	S 16
S 17	18 15 15	3°48'52	10°23	23°50	21°28	13°39	0°14	22°28	17° 3	9° 2	8°29	15°54	16°30	17°15	3° 3	S 17
M18	18 19 12	4°46'02	22°13	25°55	20°58	14°15	0°23	22°35	17° 3	9° 1	8°30	15°55	16°27	17°22	3° 0	M18
T 19	18 23 8	5°43'11	4°H 2	28° 1	20°31	14°52	0°33	22°41	17° 3	9° 0	8°31	15°56	16°23	17°28	2°57	T 19
W20	18 27 5	6°40'22	15°56	0°59	20° 5	15°29	0°43	22°47	17° 4	9° 0	8°33	15°57	16°20	17°35	2°55	W20
T 21	18 31 2	7°37'32	27°57	2°17	19°41	16° 5	0°53	22°54	17° 4	8°59	8°34	15°57	16°17	17°42	2°52	T 21
F 22	18 34 58	8°34'43	10°Y11	4°27	19°20	16°42	1° 3	23° 0	17° 4	8°58	8°35	15°R57	16°14	17°48	2°49	F 22
S 23	18 38 55	9°31'54	22°43	6°36	19° 1	17°19	1°13	23° 6	17° 4	8°58	8°36	15°57	16°11	17°55	2°46	S 23
S 24	18 42 51	10°29'06	5°835	8°46	18°44	17°56	1°23	23°12	17° 5	8°57	8°38	15°57	16° 8	18° 2	2°43	S 24
M25	18 46 48	11°26'18	18°51	10°55	18°30	18°32	1°33	23°18	17° 5	8°57	8°39	15°56	16° 4	18° 8	2°40	M25
T 26	18 50 44	12°23'31	2°II33	13° 4	18°18	19° 9	1°44	23°25	17° 6	8°56	8°40	15°56	16° 1	18°15	2°37	T 26
W27	18 54 41	13°20'45	16°40	15°13	18° 8	19°46	1°54	23°30	17° 6	8°56	8°42	15°55	15°58	18°22	2°34	W27
T 28	18 58 37	14°17'59	1°510	17°20	18° 1	20°23	2° 5	23°36	17° 7	8°55	8°43	15°55	15°55	18°28	2°30	T 28
F 29	19 2 34	15°15'13	15°57	19°27	17°56	21° 0	2°15	23°42	17° 7	8°55	8°44	15°D55	15°52	18°35	2°27	F 29
S 30	19 6 31	16°12'28	0°254	21°52	17°II53	21°37	2°M26	23°48	17°5	8°M54	8°M46	15°R55	15°349	18°42	2°24	S 30

Delta T = 05m51s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1470

geocentric

JULY 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 10 27	17°59'43"	15°02'53"	23°36'36"	17°D53	22°01'14"	2°17'37"	23°05'54"	17°01'09"	8°R54	8°47'47"	15°R55	15°03'45"	18°00'48"	2°R21	S 1
M 2	19 14 24	18° 6'58"	0°17'47"	25°38'17"	17°II55	22°51'22"	2°48'23"	23°59'17"	17°10'10"	8°M54	8°49'15"	15°03'55"	15°42'18"	18°55'22"	2°00'18"	M 2
T 3	19 18 20	19° 4'14"	15°27'27"	27°39'17"	17°59'23"	23°29'25"	2°59'24"	24° 5'17"	17°11'08"	8°53'8"	8°50'15"	15°55'15"	15°39'19"	19° 2'2"	2°15'2"	T 3
W 4	19 22 17	20° 1'29"	29°50'29"	29°38'18"	6 24° 6'3° 9'	24° 6'3° 9'	3° 9'24°10'	17°11'08"	8°53'8"	8°52'15"	15°54'15"	15°36'19"	19° 8'2"	2°11'2"	2°11'2"	W 4
T 5	19 26 13	20°58'45"	13°02'51"	1°03'36"	18°14'24"	24°43'3°21"	24°16'17°12'	8°53'8"	8°53'15"	15°54'15"	15°33'19"	19°15'2° 8'	2° 8'2"	2° 8'2"	2° 8'2"	T 5
F 6	19 30 10	21°56'02"	27°30'3°32'	18°25'25°20'	3°32'24°21'	17°13'8°52'	8°55'15°D54'	15°29'19°22'	2° 5'F 6							F 6
S 7	19 34 6	22°53'18"	10°04'48"	5°26'18°38'	25°57'3°43'	24°27'17°14'	8°52'8°57'	15°54'15°26'	19°28'2° 2'	2° 2'S 7						S 7
S 8	19 38 3	23°50'35"	23°47'7°19'	18°53'26°35'	3°54'24°32'	17°16'8°52'	8°58'15°55'	15°23'19°35'	1°58'S 8							S 8
M 9	19 42 0	24°47'53"	6°12'29"	9° 9'19° 9'	27°12'4° 5'	24°37'17°17'	8°52'9° 0'	15°56'15°20'	19°42'1°55'	M 9						M 9
T 10	19 45 56	25°45'11"	18°56'10°58'	19°28'27°49'	4°17'24°42'	17°18'8°52'	9° 1'15°57'	15°17'19°48'	1°52'T 10							T 10
W11	19 49 53	26°42'30"	1°03'11"	12°46'19°48'	28°27'4°28'	24°47'17°19'	8°52'9° 3'	15°57'15°14'	19°55'1°48'	W11						W11
T 12	19 53 49	27°39'49"	13°17'14°31'	20°11'29° 4'	4°40'24°52'	17°20'8°D52'	9° 5'15°R58'	15°10'20° 2'	1°45'T 12							T 12
F 13	19 57 46	28°37'09"	25°15'16°15'	20°34'29°41'	4°51'25°57'	17°22'8°52'	9° 7'15°58'	15° 7'20° 8'	1°42'F 13							F 13
S 14	20 1 42	29°34'30"	7°00'8"	17°58'21° 0'	0°17'19"	5° 3'25° 2'	17°23'8°52'	9° 8'15°57'	15° 4'20°15'	S 14						S 14
S 15	20 5 39	0°03'152"	18°59'19°38'	21°27'0°56'	5°14'25° 6'	17°25'8°52'	9°10'15°55'	15° 1'20°22'	1°35'S 15							S 15
M16	20 9 36	1°29'14"	0°04'48"	21°17'21°56'	1°34'5°26'	25°11'17°26'	8°52'9°12'	15°53'14°58'	20°28'1°32'	M16						M16
T 17	20 13 32	2°26'38"	12°39'22°54'	22°26'2°11'	5°38'25°16'	17°28'8°52'	9°14'15°51'	14°55'20°35'	1°28'T 17							T 17
W18	20 17 29	3°24'02"	24°34'24°30'	22°57'2°49'	5°50'25°20'	17°29'8°52'	9°15'15°48'	14°51'20°42'	1°25'W18							W18
T 19	20 21 25	4°21'28"	6°03'37"	26° 3'23°30'	3°27'6° 2'	25°24'17°31'	8°53'9°17'	15°46'14°48'	20°48'1°22'	T 19						T 19
F 20	20 25 22	5°18'55"	18°51'27°36'	24° 5'4° 4'	6°14'25°29'	17°33'8°53'	9°19'15°44'	14°45'20°55'	1°18'F 20							F 20
S 21	20 29 18	6°16'24"	1°02'20"	29° 6'24°40'	4°42'6°26'	25°33'17°34'	8°53'9°21'	15°D43'14°42'	21° 2'1°15'	S 21						S 21
S 22	20 33 15	7°13'54"	14° 8'0°17'35"	25°17'5°20'	6°38'25°37'	17°36'8°53'	9°23'15°43'	14°39'21° 8'	1°12'S 22							S 22
M23	20 37 11	8°11'25"	27°18'2° 2'	25°55'5°58'	6°50'25°41'	17°38'8°54'	9°25'15°44'	14°35'21°15'	1° 8'M23							M23
T 24	20 41 8	9° 8'58"	10°15'54"	3°27'26°34'	6°35'7° 2'	25°45'17°40'	8°54'9°27'	15°46'14°32'	21°22'1° 5'	T 24						T 24
W25	20 45 5	10° 6'32"	24°56'4°51'	27°14'7°13'	7°14'25°49'	17°42'8°54'	9°28'15°47'	14°29'21°28'	1° 2'W25							W25
T 26	20 49 1	11° 4'08"	9°02'24"	6°12'27°55'	7°51'7°26'	25°53'17°44'	8°55'9°30'	15°R48'14°26'	21°35'0°58'	T 26						T 26
F 27	20 52 58	12° 1'45"	24°14'7°32'	28°38'8°29'	7°39'25°56'	17°46'8°55'	9°32'15°48'	14°23'21°42'	0°55'F 27							F 27
S 28	20 56 54	12°59'23"	9°02'20"	8°51'29°21'	9° 7'7°51'	26° 0'17°48'	8°56'9°34'	15°46'14°20'	21°48'0°52'	S 28						S 28
S 29	21 0 51	13°57'02"	24°34'10° 7'	0°05'5"	9°45'8° 3'	26° 3'17°50'	8°56'9°36'	15°44'14°16'	21°55'0°49'	S 29						S 29
M30	21 4 47	14°54'43"	9°17'44"	11°21'0°50'	10°23'8°16'	26° 7'17°52'	8°57'9°38'	15°40'14°13'	22° 2'0°45'	M30						M30
T 31	21 8 44	15°02'25"	24°17'41"	12°17'33"	1°03'36"	11°17'1"	8°17'28"	26°03'10"	17°05'54"	8°17'57"	9°17'40"	15°03'36"	14°03'10"	22°00'42"	0°42'T 31	T 31

Delta T = 05m51s

Julian Calendar 1 July 1470 == Greg. Calendar 10 July 1470

AUGUST 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 12 40	16°05'07"	9°02'19"	13°17'43"	2°02'23"	11°17'39"	8°17'40"	26°03'13"	17°05'57"	8°17'58"	9°17'42"	15°R32	14°03'7"	22°00'15"	0°R39	W 1
T 2	21 16 37	17°47'51"	23°30'14°51'	3°10'12°17'	8°53'26°16'	17°59'8°59'	9°44'15°03'	14° 4'22°22'	0°00'36"	T 2						T 2
F 3	21 20 34	18°45'37"	7°18'15"	15°56'3°59'	12°56'9° 5'	26°19'18° 1'	8°59'9°46'	15°27'14° 1'	22°29'0°33'	F 3						F 3
S 4	21 24 30	19°43'23"	20°33'17° 0'	4°48'13°34'	9°18'26°22'	18° 4'9° 0'	9°48'15°D26'	13°57'22°35'	0°30'S 4							S 4
S 5	21 28 27	20°41'10"	3°02'26"	18° 0'5°38'	14°12'9°31'	26°25'18° 6'	9° 1'9°50'	15°27'13°54'	22°42'0°27'	S 5						S 5
M 6	21 32 23	21°38'59"	15°59'18°58'	6°28'14°50'	9°43'26°28'	18° 8'9° 2'	9°52'15°28'	13°51'22°49'	0°24'M 6							M 6
T 7	21 36 20	22°36'49"	28°16'19°53'	7°19'15°29'	9°56'26°30'	18°11'9° 2'	9°55'15°30'	13°48'22°55'	0°21'T 7							T 7
W 8	21 40 16	23°34'40"	10°02'21"	20°46'8°11'	16° 7'10° 9'	26°33'18°13'	9° 3'9°57'	15°R31'13°45'	23° 2'0°18'	W 8						W 8
T 9	21 44 13	24°32'33"	22°18'21°35'	9° 4'16°45'	10°21'26°35'	18°16'9° 4'	9°59'15°31'	13°41'23° 9'	0°15'T 9							T 9
F 10	21 48 9	25°30'27"	4°00'9"	22°20'9°57'	17°24'10°34'	26°38'18°19'	9° 5'10° 1'	15°29'13°38'	23°15'0°12'	F 10						F 10
S 11	21 52 6	26°28'22"	15°59'23° 3'	10°50'18° 2'	10°47'26°40'	18°21'9° 6'	10° 3'15°25'	13°35'23°22'	0° 9'S 11							S 11
S 12	21 56 3	27°26'19"	27°48'23°41'	11°45'18°41'	10°59'26°42'	18°24'9° 7'	10° 5'15°20'	13°32'23°29'	0° 6'S 12							S 12
M13	21 59 59	28°24'18"	9°04'40"	24°16'12°40'	19°19'11°12'	26°44'18°27'	9° 8'10° 7'	15°13'13°29'	23°35'0° 3'	M13						M13
T 14	22 3 56	29°22'18"	21°36'24°46'	13°35'19°58'	11°25'26°46'	18°29'9° 9'	10° 9'15° 4'	13°26'23°42'	0° 1'T 14							T 14
W15	22 7 52	0°17'20'20"	3°03'37"	25°12'14°31'	20°36'11°38'	26°48'18°32'	9°10'10°11'	14°56'13°22'	23°49'29°05'58"	W15						W15
T 16	22 11 49	1°18'24"	15°45'25°33'	15°27'21°15'	11°51'26°49'	18°35'9°11'	10°13'14°48'	13°19'23°55'	29°55'T 16							T 16
F 17	22 15 45	2°16'29"	28° 4'25°49'	16°24'21°54'	12° 4'26°51'	18°38'9°12'	10°16'14°42'	13°16'24° 2'	29°53'F 17							F 17
S 18	22 19 42	3°14'37"	10°03'35"	26° 0'17°22'	22°33'12°17'	26°53'18°41'	9°13'10°18'	14°37'13°13'	24° 9'29°50'	S 18						S 18
S 19	22 23 38	4°12'46"	23°21'26°R 5'	18°20'23°11'	12°29'26°54'	18°44'9°14'	10°20'14°35'	13°10'24°15'	29°48'S 19							S 19
M20	22 27 35	5°10'58"	6°12'27"	26° 4'19°18'	23°50'12°42'	26°55'18°47'	9°16'10°22'	14°D34'13° 7'	24°22'29°45'	M20						M20
T 21	22 31 31	6° 9'12"	19°54'25°57'	20°17'24°29'	12°55'26°56'	18°50'9°17'	10°24'14°35'	13° 3'24°29'	29°43'T 21							T 21
W22	22 35 28	7° 7'28"	3°04'54"	25°44'21°16'	25° 8'13° 8'	26°57'18°53'	9°18'10°26'	14°36'13° 0'	24°35'29°40'	W22						W22
T 23	22 39 25	8° 5'46"	18° 1'25°24'	22°15'25°47'	13°21'26°58'	18°56'9°19'	10°29'14°R36'	12°57'24°42'	29°38'T 23							T 23
F 24	22 43 21	9° 4'06"	2°02'41"	24°58'23°15'	26°26'13°34'	26°59'18°59'	9°21'10°31'	14°35'12°54'	24°49'29°36'	F 24						F 24
S 25	22 47 18	10° 2'28"	17°41'24°25'	24°16'27° 5'	13°47'27° 0'	19° 2'9°22'	10°33'14°31'	12°51'24°55'	29°33'S 25							S 25
S 26	22 51 14	11° 0'52"	2°17'52"	23°46'25°17'	27°44'14° 0'	27° 1'19° 5'	9°23'10°35'	14°25'12°47'	25° 2'29°31'	S 26						S 26
M27	22 55 11	11°59'18"	18° 5'23° 1'	26°18'28°23'	14°13'27° 1'	19° 8'9°25'	10°37'14°18'	12°44'25° 9'	29°29'M27							M27
T 28	22 59 7	12°57'46"	3°02'10"	22°10'27°19'	29° 2'14°26'	27° 2'19°11'	9°26'10°39'	14° 9'12°41'	25°15'29°27'	T 28						T 28
W29	23 3 4	13°56'15"	17°56'21°15'	28°21'29°41'	14°39'27° 2'	19°15'9°28'	10°41'14° 0'	12°38'25°22'	29°25'W29							W29
T 30	23 7 0	14°54'47"	2°18'18"	20°15'29°23'	0°02'21"	14°52'27° 2'	19°18'9°29'	10°44'13°52'	12°35'25°29'	T 30						T 30
F 31	23 10 57	15°17'32'20"	16°18'10"	19°17'14"	0°02'26"	1°02'15"	15°17'27°R 2'	19°02'21"	9°18'31"	10°17'46"	13°03'46"	12°03'32"	25°00'36"	29°02'21"	0°42'F 31	F 31

Delta T = 05m51s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1470

geocentric

SEPTEMBER 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 14 54	16 ^h 51'54	29 ^m 32	18°R10	1 ^h 28	1 ^h 39	15 ^m 18	27°R 2	19 ^h 24	9 ^m 32	10 ^m 48	13°R43	12 ^h 28	25 ^h 42	29°R19	S 1
S 2	23 18 50	17°50'31	12 ^m 28	17 ^m 7	2°31	2°18	15°31	27 ^h 2	19°28	9°34	10°50	13°D41	12°25	25°49	29 ^h 17	S 2
M 3	23 22 47	18°49'09	25° 0	16° 5	3°35	2°58	15°44	27° 2	19°31	9°35	10°52	13 ^h 341	12°22	25°56	29°16	M 3
T 4	23 26 43	19°47'49	7 ^h 314	15° 7	4°38	3°37	15°57	27° 1	19°34	9°37	10°54	13°42	12°19	26° 2	29°14	T 4
W 5	23 30 40	20°46'30	19°14	14°13	5°42	4°17	16°10	27° 1	19°38	9°38	10°56	13°R42	12°16	26° 9	29°12	W 5
T 6	23 34 36	21°45'13	1 ^h 7	13°25	6°47	4°56	16°23	27° 0	19°41	9°40	10°59	13°40	12°13	26°16	29°11	T 6
F 7	23 38 33	22°43'58	12°56	12°45	7°51	5°36	16°36	27° 0	19°45	9°42	11° 1	13°36	12° 9	26°22	29° 9	F 7
S 8	23 42 29	23°42'45	24°45	12°13	8°56	6°15	16°49	26°59	19°48	9°43	11° 3	13°30	12° 6	26°29	29° 8	S 8
S 9	23 46 26	24°41'34	6 ^h 36	11°50	10° 1	6°55	17° 2	26°58	19°52	9°45	11° 5	13°21	12° 3	26°36	29° 7	S 9
M10	23 50 23	25°40'24	18°33	11°37	11° 6	7°35	17°15	26°57	19°55	9°47	11° 7	13° 9	12° 0	26°42	29° 5	M10
T 11	23 54 19	26°39'17	0 ^h Y37	11°D33	12°12	8°14	17°28	26°56	19°59	9°48	11° 9	12°56	11°57	26°49	29° 4	T 11
W12	23 58 16	27°38'12	12°49	11°41	13°18	8°54	17°41	26°55	20° 2	9°50	11°11	12°43	11°53	26°56	29° 3	W12
T 13	0 2 12	28°37'08	25°10	11°58	14°24	9°34	17°53	26°53	20° 6	9°52	11°13	12°30	11°50	27° 2	29° 2	T 13
F 14	0 6 9	29°36'07	7 ^h 340	12°25	15°30	10°14	18° 6	26°52	20° 9	9°54	11°15	12°19	11°47	27° 9	29° 1	F 14
S 15	0 10 5	0 ^h 35'09	20°20	13° 1	16°36	10°54	18°19	26°50	20°13	9°56	11°17	12°11	11°44	27°16	29° 0	S 15
S 16	0 14 2	1°34'12	3 ^h 113	13°47	17°43	11°34	18°32	26°49	20°17	9°57	11°20	12° 6	11°41	27°22	28°59	S 16
M17	0 17 58	2°33'18	16°20	14°40	18°50	12°14	18°45	26°47	20°20	9°59	11°22	12° 3	11°38	27°29	28°58	M17
T 18	0 21 55	3°32'26	29°44	15°41	19°57	12°54	18°58	26°45	20°24	10° 1	11°24	12° 2	11°34	27°36	28°57	T 18
W19	0 25 52	4°31'37	13 ^h 327	16°49	21° 5	13°34	19°10	26°43	20°28	10° 3	11°26	12° 2	11°31	27°42	28°56	W19
T 20	0 29 48	5°30'50	27°30	18° 3	22°12	14°14	19°23	26°41	20°31	10° 5	11°28	12° 2	11°28	27°49	28°56	T 20
F 21	0 33 45	6°30'05	11 ^h 353	19°22	23°20	14°54	19°36	26°39	20°35	10° 7	11°30	12° 0	11°25	27°56	28°55	F 21
S 22	0 37 41	7°29'23	26°34	20°46	24°28	15°34	19°49	26°37	20°39	10° 9	11°32	11°55	11°22	28° 3	28°55	S 22
S 23	0 41 38	8°28'43	11 ^h 28	22°14	25°36	16°14	20° 1	26°34	20°42	10°11	11°34	11°47	11°18	28° 9	28°54	S 23
M24	0 45 34	9°28'05	26°28	23°45	26°44	16°55	20°14	26°32	20°46	10°13	11°36	11°37	11°15	28°16	28°54	M24
T 25	0 49 31	10°27'29	11 ^h 23	25°19	27°53	17°35	20°26	26°29	20°50	10°15	11°38	11°25	11°12	28°23	28°54	T 25
W26	0 53 27	11°26'55	26° 6	26°56	29° 2	18°15	20°39	26°27	20°53	10°17	11°39	11°14	11° 9	28°29	28°53	W26
T 27	0 57 24	12°26'24	10 ^h 27	28°34	0 ^h 10	18°56	20°52	26°24	20°57	10°19	11°41	11° 3	11° 6	28°36	28°53	T 27
F 28	1 1 20	13°25'54	24°21	0 ^h 13	1°19	19°36	21° 4	26°21	21° 1	10°21	11°43	10°55	11° 3	28°43	28°53	F 28
S 29	1 5 17	14°25'26	7 ^h 248	1°54	2°29	20°17	21°16	26°18	21° 5	10°23	11°45	10°49	10°59	28°49	28°D53	S 29
S 30	1 9 14	15 ^h 25'00	20 ^h 247	3 ^h 236	3 ^h 38	20 ^h 57	21 ^h 29	26 ^h 15	21 ^h 8	10 ^h 25	11 ^h 47	10 ^h 36	10 ^h 56	28 ^h 56	28 ^h 53	S 30

Delta T = 05m51s

Julian Calendar 1 Sept. 1470 == Greg. Calendar 10 Sept. 1470

OCTOBER 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 13 10	16 ^h 24'36	3 ^h 22	5 ^h 18	4 ^h 47	21 ^h 38	21 ^h 41	26°R12	21 ^h 12	10 ^m 27	11 ^h 49	10°R45	10 ^h 53	29 ^h 3	28 ^h 53	M 1
T 2	1 17 7	17°24'13	15°37	7° 0	5°57	22°19	21°54	26 ^h 8	21°16	10°29	11°51	10 ^h 35	10°50	29° 9	28°53	T 2
W 3	1 21 3	18°23'53	27°39	8°43	7° 7	22°59	22° 6	26° 5	21°20	10°31	11°53	10°44	10°47	29°16	28°54	W 3
T 4	1 25 0	19°23'34	9 ^h 31	10°26	8°17	23°40	22°18	26° 2	21°23	10°34	11°54	10°43	10°44	29°23	28°54	T 4
F 5	1 28 56	20°23'16	21°20	12° 8	9°27	24°21	22°30	25°59	21°27	10°36	11°56	10°39	10°40	29°29	28°55	F 5
S 6	1 32 53	21°23'01	3 ^h 11	13°51	10°37	25° 2	22°43	25°55	21°31	10°38	11°58	10°33	10°37	29°36	28°55	S 6
S 7	1 36 49	22°22'47	15° 6	15°33	11°48	25°43	22°55	25°51	21°35	10°40	12° 0	10°24	10°34	29°43	28°56	S 7
M 8	1 40 46	23°22'35	27° 9	17°15	12°58	26°23	23° 7	25°48	21°39	10°42	12° 1	10°12	10°31	29°50	28°56	M 8
T 9	1 44 43	24°22'25	9 ^h Y23	18°56	14° 9	27° 4	23°19	25°44	21°42	10°44	12° 3	9°59	10°28	29°56	28°57	T 9
W10	1 48 39	25°22'17	21°48	20°38	15°19	27°45	23°31	25°40	21°46	10°46	12° 5	9°46	10°24	0 ^h 3	28°58	W10
T 11	1 52 36	26°22'11	4 ^h 25	22°18	16°30	28°27	23°43	25°36	21°50	10°49	12° 7	9°33	10°21	0°10	28°58	T 11
F 12	1 56 32	27°22'07	17°13	23°59	17°41	29° 8	23°55	25°32	21°54	10°51	12° 8	9°22	10°18	0°16	28°59	F 12
S 13	2 0 29	28°22'05	0 ^h 11	25°38	18°52	29°49	24° 6	25°28	21°57	10°53	12°10	9°14	10°15	0°23	29° 0	S 13
S 14	2 4 25	29°22'05	13°21	27°18	20° 4	0 ^h 30	24°18	25°24	22° 1	10°55	12°11	9° 8	10°12	0°30	29° 1	S 14
M15	2 8 22	0 ^h 22'07	26°42	28°57	21°15	1°11	24°30	25°20	22° 5	10°58	12°13	9° 6	10° 9	0°36	29° 2	M15
T 16	2 12 18	1°22'11	10 ^h 314	0 ^h 35	22°27	1°52	24°41	25°16	22° 9	11° 0	12°15	9°D 5	10° 5	0°43	29° 4	T 16
W17	2 16 15	2°22'18	23°58	2°13	23°38	2°34	24°53	25°11	22°12	11° 2	12°16	9° 5	10° 2	0°50	29° 5	W17
T 18	2 20 12	3°22'26	7 ^h 254	3°51	24°50	3°15	25° 4	25° 7	22°16	11° 4	12°18	9°R 5	9°59	0°56	29° 6	T 18
F 19	2 24 8	4°22'37	22° 4	5°28	26° 2	3°57	25°16	25° 3	22°20	11° 6	12°19	9° 4	9°56	1° 3	29° 8	F 19
S 20	2 28 5	5°22'50	6 ^h 26	7° 4	27°14	4°38	25°27	24°58	22°23	11° 9	12°21	9° 1	9°53	1°10	29° 9	S 20
S 21	2 32 1	6°23'04	20°56	8°41	28°26	5°20	25°39	24°54	22°27	11°11	12°22	8°54	9°49	1°17	29°11	S 21
M22	2 35 58	7°23'21	5 ^h 30	10°17	29°38	6° 1	25°50	24°49	22°31	11°13	12°23	8°46	9°46	1°23	29°12	M22
T 23	2 39 54	8°23'40	20° 1	11°52	0 ^h 50	6°43	26° 1	24°45	22°35	11°15	12°25	8°36	9°43	1°30	29°14	T 23
W24	2 43 51	9°24'01	4 ^h 24	13°27	2° 3	7°25	26°12	24°40	22°38	11°18	12°26	8°26	9°40	1°37	29°15	W24
T 25	2 47 47	10°24'23	18°30	15° 2	3°15	8° 6	26°23	24°35	22°42	11°20	12°28	8°17	9°37	1°43	29°17	T 25
F 26	2 51 44	11°24'47	2 ^h 216	16°36	4°28	8°48	26°34	24°30	22°45	11°22	12°29	8°10	9°34	1°50	29°19	F 26
S 27	2 55 41	12°25'13	15°39	18°11	5°40	9°30	26°45	24°26	22°49	11°24	12°30	8° 5	9°30	1°57	29°21	S 27
S 28	2 59 37	13°25'41	28°37	19°44	6°53	10°12	26°56	24°21	22°53	11°27	12°31	8° 3	9°27	2° 3	29°23	S 28
M29	3 3 34	14°26'09	11 ^h 314	21°18	8° 6	10°54	27° 6	24°16	22°56	11°29	12°33	8°D 2	9°24	2°10	29°25	M29
T 30	3 7 30	15°26'39	23°32	22°51	9°19	11°36	27°17	24°11	23° 0	11°31	12°34	8° 3	9°21	2°17	29°27	T 30
W31	3 11 27	16 ^h 27'11	5 ^h 35	24 ^h 24	10 ^h 31	12 ^h 18	27 ^h 27	24 ^h 6	23 ^h 3	11 ^h 33	12 ^h 35	8 ^h 4	9 ^h 38	2 ^h 23	29 ^h 29	W31

Delta T = 05m51s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1470

geocentric

NOVEMBER 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 15 23	17 ¹¹ 27'44	17 ¹¹ 30	25 ¹¹ 57	11 ¹¹ 44	13 ¹¹ 0	27 ¹¹ 38	24 ¹¹ R 2	23 ¹¹ 5 7	11 ¹¹ 36	12 ¹¹ 36	8 ¹¹ R 5	9 ¹¹ 315	2 ¹¹ 30	29 ¹¹ 32	T 1
F 2	3 19 20	18 ¹¹ 28'17	29 ¹¹ 20	27 ¹¹ 30	12 ¹¹ 57	13 ¹¹ 42	27 ¹¹ 48	23 ¹¹ 8'57	23 ¹¹ 10	11 ¹¹ 38	12 ¹¹ 37	8 ¹¹ 3 4	9 ¹¹ 11	2 ¹¹ 37	29 ¹¹ 34	F 2
S 3	3 23 16	19 ¹¹ 28'53	11 ¹¹ 12	29 ¹¹ 2	14 ¹¹ 11	14 ¹¹ 24	27 ¹¹ 58	23 ¹¹ 52	23 ¹¹ 14	11 ¹¹ 40	12 ¹¹ 38	8 ¹¹ 1	9 ¹¹ 8	2 ¹¹ 44	29 ¹¹ 36	S 3
S 4	3 27 13	20 ¹¹ 29'29	23 ¹¹ 9	0 ¹¹ 34	15 ¹¹ 24	15 ¹¹ 6	28 ¹¹ 9	23 ¹¹ 47	23 ¹¹ 17	11 ¹¹ 42	12 ¹¹ 39	7 ¹¹ 56	9 ¹¹ 5	2 ¹¹ 50	29 ¹¹ 39	S 4
M 5	3 31 10	21 ¹¹ 30'07	5 ¹¹ 17	2 ¹¹ 6	16 ¹¹ 37	15 ¹¹ 48	28 ¹¹ 19	23 ¹¹ 42	23 ¹¹ 21	11 ¹¹ 45	12 ¹¹ 41	7 ¹¹ 50	9 ¹¹ 2	2 ¹¹ 57	29 ¹¹ 41	M 5
T 6	3 35 6	22 ¹¹ 30'46	17 ¹¹ 38	3 ¹¹ 38	17 ¹¹ 50	16 ¹¹ 31	28 ¹¹ 29	23 ¹¹ 37	23 ¹¹ 24	11 ¹¹ 47	12 ¹¹ 42	7 ¹¹ 42	8 ¹¹ 59	3 ¹¹ 4	29 ¹¹ 44	T 6
W 7	3 39 3	23 ¹¹ 31'26	0 ¹¹ 14	5 ¹¹ 9	19 ¹¹ 4	17 ¹¹ 13	28 ¹¹ 38	23 ¹¹ 32	23 ¹¹ 28	11 ¹¹ 49	12 ¹¹ 42	7 ¹¹ 33	8 ¹¹ 55	3 ¹¹ 10	29 ¹¹ 46	W 7
T 8	3 42 59	24 ¹¹ 32'07	13 ¹¹ 6	6 ¹¹ 41	20 ¹¹ 17	17 ¹¹ 55	28 ¹¹ 48	23 ¹¹ 27	23 ¹¹ 31	11 ¹¹ 51	12 ¹¹ 43	7 ¹¹ 25	8 ¹¹ 52	3 ¹¹ 17	29 ¹¹ 49	T 8
F 9	3 46 56	25 ¹¹ 32'50	26 ¹¹ 13	8 ¹¹ 12	21 ¹¹ 31	18 ¹¹ 38	28 ¹¹ 58	23 ¹¹ 22	23 ¹¹ 34	11 ¹¹ 54	12 ¹¹ 44	7 ¹¹ 19	8 ¹¹ 49	3 ¹¹ 24	29 ¹¹ 52	F 9
S 10	3 50 52	26 ¹¹ 33'34	9 ¹¹ 35	9 ¹¹ 42	22 ¹¹ 44	19 ¹¹ 20	29 ¹¹ 7	23 ¹¹ 17	23 ¹¹ 38	11 ¹¹ 56	12 ¹¹ 45	7 ¹¹ 14	8 ¹¹ 46	3 ¹¹ 30	29 ¹¹ 54	S 10
S 11	3 54 49	27 ¹¹ 34'20	23 ¹¹ 10	11 ¹¹ 13	23 ¹¹ 58	20 ¹¹ 3	29 ¹¹ 17	23 ¹¹ 12	23 ¹¹ 41	11 ¹¹ 58	12 ¹¹ 46	7 ¹¹ 11	8 ¹¹ 43	3 ¹¹ 37	29 ¹¹ 57	S 11
M 12	3 58 45	28 ¹¹ 35'07	6 ¹¹ 54	12 ¹¹ 43	25 ¹¹ 12	20 ¹¹ 45	29 ¹¹ 26	23 ¹¹ 8	23 ¹¹ 44	12 ¹¹ 0	12 ¹¹ 47	7 ¹¹ D 10	8 ¹¹ 40	3 ¹¹ 44	0 ¹¹ 0	M 12
T 13	4 2 42	29 ¹¹ 35'55	20 ¹¹ 47	14 ¹¹ 13	26 ¹¹ 26	21 ¹¹ 28	29 ¹¹ 36	23 ¹¹ 3	23 ¹¹ 48	12 ¹¹ 2	12 ¹¹ 48	7 ¹¹ 10	8 ¹¹ 36	3 ¹¹ 51	0 ¹¹ 3	T 13
W 14	4 6 39	0 ¹¹ 36'45	4 ¹¹ 14	15 ¹¹ 42	27 ¹¹ 39	22 ¹¹ 10	29 ¹¹ 45	22 ¹¹ 58	23 ¹¹ 51	12 ¹¹ 4	12 ¹¹ 48	7 ¹¹ 12	8 ¹¹ 33	3 ¹¹ 57	0 ¹¹ 6	W 14
T 15	4 10 35	1 ¹¹ 37'37	18 ¹¹ 51	17 ¹¹ 12	28 ¹¹ 53	22 ¹¹ 53	29 ¹¹ 54	22 ¹¹ 53	23 ¹¹ 54	12 ¹¹ 7	12 ¹¹ 49	7 ¹¹ 13	8 ¹¹ 30	4 ¹¹ 4	0 ¹¹ 9	T 15
F 16	4 14 32	2 ¹¹ 38'29	2 ¹¹ 59	18 ¹¹ 40	0 ¹¹ 11	23 ¹¹ 36	0 ¹¹ 3	22 ¹¹ 48	23 ¹¹ 57	12 ¹¹ 9	12 ¹¹ 50	7 ¹¹ R 14	8 ¹¹ 27	4 ¹¹ 11	0 ¹¹ 12	F 16
S 17	4 18 28	3 ¹¹ 39'23	17 ¹¹ 9	20 ¹¹ 8	1 ¹¹ 21	24 ¹¹ 19	0 ¹¹ 11	22 ¹¹ 43	24 ¹¹ 0	12 ¹¹ 11	12 ¹¹ 51	7 ¹¹ 13	8 ¹¹ 24	4 ¹¹ 17	0 ¹¹ 15	S 17
S 18	4 22 25	4 ¹¹ 40'19	1 ¹¹ 20	21 ¹¹ 36	2 ¹¹ 35	25 ¹¹ 1	0 ¹¹ 20	22 ¹¹ 38	24 ¹¹ 3	12 ¹¹ 13	12 ¹¹ 51	7 ¹¹ 11	8 ¹¹ 21	4 ¹¹ 24	0 ¹¹ 18	S 18
M 19	4 26 21	5 ¹¹ 41'16	15 ¹¹ 28	23 ¹¹ 3	3 ¹¹ 49	25 ¹¹ 44	0 ¹¹ 29	22 ¹¹ 34	24 ¹¹ 6	12 ¹¹ 15	12 ¹¹ 52	7 ¹¹ 7	8 ¹¹ 17	4 ¹¹ 31	0 ¹¹ 22	M 19
T 20	4 30 18	6 ¹¹ 42'14	29 ¹¹ 30	24 ¹¹ 29	5 ¹¹ 3	26 ¹¹ 27	0 ¹¹ 37	22 ¹¹ 29	24 ¹¹ 10	12 ¹¹ 17	12 ¹¹ 52	7 ¹¹ 2	8 ¹¹ 14	4 ¹¹ 37	0 ¹¹ 25	T 20
W 21	4 34 14	7 ¹¹ 43'13	13 ¹¹ 24	25 ¹¹ 53	6 ¹¹ 18	27 ¹¹ 10	0 ¹¹ 45	22 ¹¹ 24	24 ¹¹ 13	12 ¹¹ 19	12 ¹¹ 53	6 ¹¹ 58	8 ¹¹ 11	4 ¹¹ 44	0 ¹¹ 28	W 21
T 22	4 38 11	8 ¹¹ 44'13	27 ¹¹ 4	27 ¹¹ 17	7 ¹¹ 32	27 ¹¹ 53	0 ¹¹ 54	22 ¹¹ 20	24 ¹¹ 16	12 ¹¹ 21	12 ¹¹ 53	6 ¹¹ 53	8 ¹¹ 8	4 ¹¹ 51	0 ¹¹ 32	T 22
F 23	4 42 8	9 ¹¹ 45'15	10 ¹¹ 30	28 ¹¹ 40	8 ¹¹ 46	28 ¹¹ 36	1 ¹¹ 2	22 ¹¹ 15	24 ¹¹ 18	12 ¹¹ 23	12 ¹¹ 54	6 ¹¹ 50	8 ¹¹ 5	4 ¹¹ 58	0 ¹¹ 35	F 23
S 24	4 46 4	10 ¹¹ 46'17	23 ¹¹ 38	0 ¹¹ 3 0	10 ¹¹ 0	29 ¹¹ 20	1 ¹¹ 10	22 ¹¹ 11	24 ¹¹ 21	12 ¹¹ 25	12 ¹¹ 54	6 ¹¹ 48	8 ¹¹ 1	5 ¹¹ 4	0 ¹¹ 39	S 24
S 25	4 50 1	11 ¹¹ 47'20	6 ¹¹ 37	1 ¹¹ 19	11 ¹¹ 15	0 ¹¹ 3 3	1 ¹¹ 18	22 ¹¹ 6	24 ¹¹ 24	12 ¹¹ 28	12 ¹¹ 55	6 ¹¹ D 47	7 ¹¹ 58	5 ¹¹ 11	0 ¹¹ 42	S 25
M 26	4 53 57	12 ¹¹ 48'24	19 ¹¹ 0	2 ¹¹ 36	12 ¹¹ 29	0 ¹¹ 46	1 ¹¹ 25	22 ¹¹ 2	24 ¹¹ 27	12 ¹¹ 30	12 ¹¹ 55	6 ¹¹ 47	7 ¹¹ 55	5 ¹¹ 18	0 ¹¹ 46	M 26
T 27	4 57 54	13 ¹¹ 49'29	1 ¹¹ 16	3 ¹¹ 50	13 ¹¹ 43	1 ¹¹ 29	1 ¹¹ 33	21 ¹¹ 57	24 ¹¹ 30	12 ¹¹ 32	12 ¹¹ 55	6 ¹¹ 49	7 ¹¹ 52	5 ¹¹ 24	0 ¹¹ 50	T 27
W 28	5 1 50	14 ¹¹ 50'33	13 ¹¹ 20	5 ¹¹ 1	14 ¹¹ 58	2 ¹¹ 13	1 ¹¹ 40	21 ¹¹ 53	24 ¹¹ 33	12 ¹¹ 34	12 ¹¹ 56	6 ¹¹ 51	7 ¹¹ 49	5 ¹¹ 31	0 ¹¹ 53	W 28
T 29	5 5 47	15 ¹¹ 51'39	25 ¹¹ 16	6 ¹¹ 9	16 ¹¹ 12	2 ¹¹ 56	1 ¹¹ 47	21 ¹¹ 49	24 ¹¹ 35	12 ¹¹ 35	12 ¹¹ 56	6 ¹¹ 52	7 ¹¹ 46	5 ¹¹ 38	0 ¹¹ 57	T 29
F 30	5 9 44	16 ¹¹ 52'44	7 ¹¹ 11	7 ¹¹ 13	17 ¹¹ 27	3 ¹¹ 39	1 ¹¹ 55	21 ¹¹ 44	24 ¹¹ 38	12 ¹¹ 37	12 ¹¹ 56	6 ¹¹ 53	7 ¹¹ 42	5 ¹¹ 44	1 ¹¹ 1	F 30

Delta T = 05m51s

Julian Calendar 1 Nov. 1470 == Greg. Calendar 10 Nov. 1470

DECEMBER 1470 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 13 40	17 ¹¹ 53'50	18 ¹¹ 59	8 ¹¹ 32	18 ¹¹ 41	4 ¹¹ 23	2 ¹¹ 2	21 ¹¹ R40	24 ¹¹ 41	12 ¹¹ 39	12 ¹¹ 56	6 ¹¹ R54	7 ¹¹ 39	5 ¹¹ 51	1 ¹¹ 5	S 1
S 2	5 17 37	18 ¹¹ 54'57	0 ¹¹ 56	9 ¹¹ 5	19 ¹¹ 56	5 ¹¹ 6	2 ¹¹ 8	21 ¹¹ 8'36	24 ¹¹ 43	12 ¹¹ 41	12 ¹¹ 57	6 ¹¹ 53	7 ¹¹ 36	5 ¹¹ 58	1 ¹¹ 8	S 2
M 3	5 21 33	19 ¹¹ 56'03	13 ¹¹ 4	9 ¹¹ 53	21 ¹¹ 10	5 ¹¹ 50	2 ¹¹ 15	21 ¹¹ 32	24 ¹¹ 46	12 ¹¹ 43	12 ¹¹ 57	6 ¹¹ 52	7 ¹¹ 33	6 ¹¹ 5	1 ¹¹ 12	M 3
T 4	5 25 30	20 ¹¹ 57'10	25 ¹¹ 26	10 ¹¹ 34	22 ¹¹ 25	6 ¹¹ 33	2 ¹¹ 22	21 ¹¹ 28	24 ¹¹ 48	12 ¹¹ 45	12 ¹¹ 57	6 ¹¹ 50	7 ¹¹ 30	6 ¹¹ 11	1 ¹¹ 16	T 4
W 5	5 29 26	21 ¹¹ 58'18	8 ¹¹ 6	11 ¹¹ 7	23 ¹¹ 39	7 ¹¹ 17	2 ¹¹ 28	21 ¹¹ 24	24 ¹¹ 51	12 ¹¹ 47	12 ¹¹ 57	6 ¹¹ 48	7 ¹¹ 27	6 ¹¹ 18	1 ¹¹ 20	W 5
T 6	5 33 23	22 ¹¹ 59'25	21 ¹¹ 6	11 ¹¹ 31	24 ¹¹ 54	8 ¹¹ 1	2 ¹¹ 34	21 ¹¹ 20	24 ¹¹ 53	12 ¹¹ 49	12 ¹¹ 57	6 ¹¹ 45	7 ¹¹ 23	6 ¹¹ 25	1 ¹¹ 24	T 6
F 7	5 37 19	24 ¹¹ 0'33	4 ¹¹ 11	11 ¹¹ 46	26 ¹¹ 9	8 ¹¹ 44	2 ¹¹ 40	21 ¹¹ 17	24 ¹¹ 56	12 ¹¹ 51	12 ¹¹ R57	6 ¹¹ 44	7 ¹¹ 20	6 ¹¹ 31	1 ¹¹ 28	F 7
S 8	5 41 16	25 ¹¹ 1'41	18 ¹¹ 8	11 ¹¹ R51	27 ¹¹ 23	9 ¹¹ 28	2 ¹¹ 46	21 ¹¹ 13	24 ¹¹ 58	12 ¹¹ 52	12 ¹¹ 57	6 ¹¹ 42	7 ¹¹ 17	6 ¹¹ 38	1 ¹¹ 32	S 8
S 9	5 45 13	26 ¹¹ 2'50	2 ¹¹ 5 7	11 ¹¹ 44	28 ¹¹ 38	10 ¹¹ 12	2 ¹¹ 52	21 ¹¹ 9	25 ¹¹ 0	12 ¹¹ 54	12 ¹¹ 57	6 ¹¹ D42	7 ¹¹ 14	6 ¹¹ 45	1 ¹¹ 36	S 9
M10	5 49 9	27 ¹¹ 3'58	16 ¹¹ 20	11 ¹¹ 26	29 ¹¹ 53	10 ¹¹ 56	2 ¹¹ 58	21 ¹¹ 6	25 ¹¹ 2	12 ¹¹ 56	12 ¹¹ 57	6 ¹¹ 42	7 ¹¹ 11	6 ¹¹ 52	1 ¹¹ 41	M10
T 11	5 53 6	28 ¹¹ 5'07	0 ¹¹ 43	10 ¹¹ 56	1 ¹¹ 3 7	11 ¹¹ 40	3 ¹¹ 3	21 ¹¹ 2	25 ¹¹ 5	12 ¹¹ 58	12 ¹¹ 57	6 ¹¹ 43	7 ¹¹ 7	6 ¹¹ 58	1 ¹¹ 45	T 11
W12	5 57 2	29 ¹¹ 6'17	15 ¹¹ 10	10 ¹¹ 14	2 ¹¹ 22	12 ¹¹ 24	3 ¹¹ 9	20 ¹¹ 59	25 ¹¹ 7	12 ¹¹ 59	12 ¹¹ 57	6 ¹¹ 43	7 ¹¹ 4	7 ¹¹ 5	1 ¹¹ 49	W12
T 13	6 0 59	0 ¹¹ 3 7'27	29 ¹¹ 36	9 ¹¹ 21	3 ¹¹ 37	13 ¹¹ 7	3 ¹¹ 14	20 ¹¹ 56	25 ¹¹ 9	13 ¹¹ 1	12 ¹¹ 56	6 ¹¹ 44	7 ¹¹ 1	7 ¹¹ 12	1 ¹¹ 53	T 13
F 14	6 4 55	1 ¹¹ 8'37	13 ¹¹ 57	8 ¹¹ 19	4 ¹¹ 52	13 ¹¹ 52	3 ¹¹ 19	20 ¹¹ 53	25 ¹¹ 11	13 ¹¹ 3	12 ¹¹ 56	6 ¹¹ 44	6 ¹¹ 58	7 ¹¹ 18	1 ¹¹ 57	F 14
S 15	6 8 52	2 ¹¹ 9'47	28 ¹¹ 10	7 ¹¹ 8	6 ¹¹ 6	14 ¹¹ 36	3 ¹¹ 24	20 ¹¹ 50	25 ¹¹ 13	13 ¹¹ 4	12 ¹¹ 56	6 ¹¹ R45	6 ¹¹ 55	7 ¹¹ 25	2 ¹¹ 2	S 15
S 16	6 12 48	3 ¹¹ 10'58	12 ¹¹ 14	5 ¹¹ 51	7 ¹¹ 21	15 ¹¹ 20	3 ¹¹ 28	20 ¹¹ 47	25 ¹¹ 15	13 ¹¹ 6	12 ¹¹ 56	6 ¹¹ 45	6 ¹¹ 52	7 ¹¹ 32	2 ¹¹ 6	S 16
M17	6 16 45	4 ¹¹ 12'09	26 ¹¹ 5	4 ¹¹ 30	8 ¹¹ 36	16 ¹¹ 4	3 ¹¹ 33	20 ¹¹ 44	25 ¹¹ 17	13 ¹¹ 8	12 ¹¹ 55	6 ¹¹ 44	6 ¹¹ 48	7 ¹¹ 38	2 ¹¹ 10	M17
T 18	6 20 42	5 ¹¹ 13'21	9 ¹¹ 44	3 ¹¹ 9	9 ¹¹ 51	16 ¹¹ 48	3 ¹¹ 37	20 ¹¹ 41	25 ¹¹ 19	13 ¹¹ 9	12 ¹¹ 55	6 ¹¹ 44	6 ¹¹ 45	7 ¹¹ 45	2 ¹¹ 15	T 18
W19	6 24 38	6 ¹¹ 14'33	23 ¹¹ 10	1 ¹¹ 50	11 ¹¹ 6	17 ¹¹ 32	3 ¹¹ 42	20 ¹¹ 38	25 ¹¹ 21	13 ¹¹ 11	12 ¹¹ 55	6 ¹¹ D44	6 ¹¹ 42	7 ¹¹ 52	2 ¹¹ 19	W19
T 20	6 28 35	7 ¹¹ 15'45	6 ¹¹ 24	0 ¹¹ 34	12 ¹¹ 21	18 ¹¹ 17	3 ¹¹ 46	20 ¹¹ 36	25 ¹¹ 22	13 ¹¹ 12	12 ¹¹ 54	6 ¹¹ 44	6 ¹¹ 39	7 ¹¹ 59	2 ¹¹ 24	T 20
F 21	6 32 31	8 ¹¹ 16'57	19 ¹¹ 23	29 ¹¹ 25	13 ¹¹ 36	19 ¹¹ 1	3 ¹¹ 49	20 ¹¹ 33	25 ¹¹ 24	13 ¹¹ 14	12 ¹¹ 54	6 ¹¹ 44	6 ¹¹ 36	8 ¹¹ 5	2 ¹¹ 28	F 21
S 22	6 36 28	9 ¹¹ 18'09	2 ¹¹ 30	28 ¹¹ 24	14 ¹¹ 50	19 ¹¹ 45	3 ¹¹ 53	20 ¹¹ 31	25 ¹¹ 26	13 ¹¹ 15	12 ¹¹ 53	6 ¹¹ R44	6 ¹¹ 33	8 ¹¹ 12	2 ¹¹ 33	S 22
S 23	6 40 24	10 ¹¹ 19'20	14 ¹¹ 44	27 ¹¹ 32	16 ¹¹ 5	20 ¹¹ 30	3 ¹¹ 57	20 ¹¹ 28	25 ¹¹ 27	13 ¹¹ 17	12 ¹¹ 53	6 ¹¹ 44	6 ¹¹ 29	8 ¹¹ 19	2 ¹¹ 37	S 23
M24	6 44 21	11 ¹¹ 20'32	27 ¹¹ 5	26 ¹¹ 49	17 ¹¹ 20	21 ¹¹ 14	4 ¹¹ 0	20 ¹¹ 26	25 ¹¹ 29	13 ¹¹ 18	12 ¹¹ 52	6 ¹¹ 44	6 ¹¹ 26	8 ¹¹ 25	2 ¹¹ 42	M24
T 25	6 48 17	12 ¹¹ 21'43	9 ¹¹ 6	26 ¹¹ 16	18 ¹¹ 35	21 ¹¹ 59	4 ¹¹ 3	20 ¹¹ 24	25 ¹¹ 31	13 ¹¹ 19	12 ¹¹ 52	6 ¹¹ 44	6 ¹¹ 23	8 ¹¹ 32	2 ¹¹ 46	T 25
W26	6 52 14	13 ¹¹ 22'53	21 ¹¹ 17	25 ¹¹ 54	19 ¹¹ 50	22 ¹¹ 43	4 ¹¹ 6	20 ¹¹ 22	25 ¹¹ 32	13 ¹¹ 21	12 ¹¹ 51	6 ¹¹ 43	6 ¹¹ 20	8 ¹¹ 39	2 ¹¹ 51	W26
T 27	6 56 11	14 ¹¹ 24'03	3 ¹¹ 12	25 ¹¹ 41	21 ¹¹ 5	23 ¹¹ 28	4 ¹¹ 9	20 ¹¹ 20	25 ¹¹ 33	13 ¹¹ 22	12 ¹¹ 50	6 ¹¹ 42	6 ¹¹ 17	8 ¹¹ 46	2 ¹¹ 55	T 27
F 28	7 0 7	15 ¹¹ 25'13	15 ¹¹ 3	25 ¹¹ D36	22 ¹¹ 20	24 ¹¹ 12	4 ¹¹ 11	20 ¹¹ 18	25 ¹¹ 35	13 ¹¹ 23	12 ¹¹ 50	6 ¹¹ 40	6 ¹¹ 13	8 ¹¹ 52	3 ¹¹ 0	F 28
S 29	7 4 4	16 ¹¹ 26'22	26 ¹¹ 54	25 ¹¹ 41	23 ¹¹ 35	24 ¹¹ 57	4 ¹¹ 14	20 ¹¹ 17	25 ¹¹ 36	13 ¹¹ 25	12 ¹¹ 49	6 ¹¹ 39	6 ¹¹ 10	8 ¹¹ 59	3 ¹¹ 5	S 29
S 30	7 8 0	17 ¹¹ 27'29	8 ¹¹ 50	25 ¹¹ 53	24 ¹¹ 50	25 ¹¹ 42	4 ¹¹ 16	20 ¹¹ 15	25 ¹¹ 37	13 ¹¹ 26	12 ¹¹ 48	6 ¹¹ 39	6 ¹¹ 7	9 ¹¹ 6	3 ¹¹ 9	S 30
M31	7 11 57	18 ¹¹ 28'37	20 ¹¹ 54	26 ¹¹ 13	26 ¹¹ 3 5	26 ¹¹ 26	4 ¹¹ 18	20 ¹¹ 14	25 ¹¹ 39	13 ¹¹ 27	12 ¹¹ 47	6 ¹¹ D39	6 ¹¹ 3 4	9 ¹¹ 12	3 ¹¹ 14	M31