



# Astrodienst Ephemeris Tables for the year 1481

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 1481

## geocentric

JANUARY 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 18 8	20°33'37	27°33'32	26°34'49	6°34'8	19°34'45	4°34'30	13°34'11	9°34'28	4°34'43	6°34'21	23°34'47	22°34'34	26°34'29	16°34'26	M 1
T 2	7 22 5	21°44'44	10°34'52	28°34'32	7°34'23	20°34'29	4°34'23	13°34'12	9°34'31	4°34'45	6°34'21	23°34'43	22°34'31	26°34'35	16°34'28	T 2
W 3	7 26 1	22°55'51	23°34'54	0°34'14	8°34'38	21°34'13	4°34'15	13°34'14	9°34'34	4°34'47	6°34'21	23°34'38	22°34'27	26°34'42	16°34'31	W 3
T 4	7 29 58	23°6'57	6°34'37	1°34'57	9°34'53	21°34'57	4°34'8	13°34'15	9°34'37	4°34'48	6°34'21	23°34'33	22°34'24	26°34'49	16°34'33	T 4
F 5	7 33 54	24°8'01	19°34'2	3°34'40	11°34'8	22°34'41	4°34'0	13°34'15	9°34'40	4°34'50	6°34'21	23°34'28	22°34'21	26°34'55	16°34'36	F 5
S 6	7 37 51	25°9'05	1°34'13	5°34'23	12°34'23	23°34'24	3°34'52	13°34'16	9°34'42	4°34'52	6°34'21	23°34'25	22°34'18	27°34'2	16°34'39	S 6
S 7	7 41 47	26°10'08	13°34'12	7°34'6	13°34'38	24°34'8	3°34'44	13°34'17	9°34'45	4°34'53	6°34'20	23°34'22	22°34'15	27°34'9	16°34'41	S 7
M 8	7 45 44	27°11'10	25°34'5	8°34'48	14°34'53	24°34'52	3°34'36	13°34'17	9°34'48	4°34'55	6°34'20	23°34'21	22°34'11	27°34'15	16°34'44	M 8
T 9	7 49 40	28°12'10	6°34'56	10°34'31	16°34'8	25°34'36	3°34'28	13°34'18	9°34'51	4°34'56	6°34'20	23°34'21	22°34'8	27°34'22	16°34'46	T 9
W10	7 53 37	29°13'10	18°34'59	12°34'12	17°34'23	26°34'20	3°34'20	13°34'18	9°34'54	4°34'58	6°34'19	23°34'23	22°34'5	27°34'29	16°34'49	W10
T 11	7 57 33	0°34'14	0°34'51	13°34'53	18°34'38	27°34'4	3°34'12	13°34'18	9°34'56	4°34'59	6°34'19	23°34'25	22°34'2	27°34'36	16°34'52	T 11
F 12	8 1 30	1°15'06	13°34'6	15°34'33	19°34'53	27°34'47	3°34'4	13°34'19	9°34'59	5°34'1	6°34'19	23°34'26	21°34'59	27°34'42	16°34'55	F 12
S 13	8 5 27	2°16'02	25°34'37	17°34'12	21°34'8	28°34'31	2°34'56	13°34'19	10°34'1	5°34'2	6°34'18	23°34'27	21°34'56	27°34'49	16°34'58	S 13
S 14	8 9 23	3°16'56	8°34'28	18°34'49	22°34'23	29°34'15	2°34'48	13°34'19	10°34'4	5°34'4	6°34'18	23°34'25	21°34'52	27°34'56	17°34'1	S 14
M15	8 13 20	4°17'50	21°34'37	20°34'23	23°34'38	29°34'58	2°34'40	13°34'18	10°34'7	5°34'5	6°34'17	23°34'22	21°34'49	28°34'2	17°34'3	M15
T 16	8 17 16	5°18'43	5°34'11	21°34'55	24°34'53	0°34'42	2°34'32	13°34'18	10°34'9	5°34'6	6°34'17	23°34'17	21°34'46	28°34'9	17°34'6	T 16
W17	8 21 13	6°19'34	19°34'1	23°34'24	26°34'7	1°34'26	2°34'24	13°34'18	10°34'11	5°34'8	6°34'16	23°34'11	21°34'43	28°34'16	17°34'9	W17
T 18	8 25 9	7°20'24	3°34'17	24°34'49	27°34'22	2°34'9	2°34'16	13°34'17	10°34'14	5°34'9	6°34'15	23°34'3	21°34'40	28°34'22	17°34'12	T 18
F 19	8 29 6	8°21'13	17°34'21	26°34'9	28°34'37	2°34'53	2°34'8	13°34'17	10°34'16	5°34'10	6°34'15	22°34'56	21°34'36	28°34'29	17°34'15	F 19
S 20	8 33 3	9°22'02	1°34'40	27°34'24	29°34'52	3°34'36	2°34'1	13°34'16	10°34'19	5°34'12	6°34'14	22°34'49	21°34'33	28°34'36	17°34'19	S 20
S 21	8 36 59	10°22'49	15°34'59	28°34'34	1°34'6	4°34'20	1°34'53	13°34'15	10°34'21	5°34'13	6°34'13	22°34'45	21°34'30	28°34'43	17°34'22	S 21
M22	8 40 56	11°23'35	0°34'14	29°34'36	2°34'21	5°34'3	1°34'45	13°34'14	10°34'23	5°34'14	6°34'13	22°34'42	21°34'27	28°34'49	17°34'25	M22
T 23	8 44 52	12°24'20	14°34'23	0°34'32	3°34'36	5°34'46	1°34'37	13°34'13	10°34'25	5°34'15	6°34'12	22°34'42	21°34'24	28°34'56	17°34'28	T 23
W24	8 48 49	13°25'04	28°34'24	1°34'19	4°34'50	6°34'30	1°34'29	13°34'12	10°34'27	5°34'16	6°34'11	22°34'42	21°34'21	29°34'3	17°34'31	W24
T 25	8 52 45	14°25'47	12°34'16	1°34'57	6°34'5	7°34'13	1°34'22	13°34'11	10°34'30	5°34'17	6°34'10	22°34'44	21°34'17	29°34'9	17°34'34	T 25
F 26	8 56 42	15°26'29	26°34'0	2°34'26	7°34'20	7°34'57	1°34'14	13°34'9	10°34'32	5°34'18	6°34'9	22°34'44	21°34'14	29°34'16	17°34'38	F 26
S 27	9 0 38	16°27'10	9°34'34	2°34'44	8°34'34	8°34'40	1°34'7	13°34'8	10°34'34	5°34'19	6°34'8	22°34'42	21°34'11	29°34'23	17°34'41	S 27
S 28	9 4 35	17°27'50	22°34'59	2°34'53	9°34'49	9°34'23	0°34'59	13°34'6	10°34'36	5°34'20	6°34'7	22°34'39	21°34'8	29°34'29	17°34'44	S 28
M29	9 8 32	18°28'28	6°34'13	2°34'51	11°34'3	10°34'6	0°34'52	13°34'5	10°34'38	5°34'21	6°34'6	22°34'32	21°34'5	29°34'36	17°34'48	M29
T 30	9 12 28	19°29'05	19°34'14	2°34'38	12°34'18	10°34'50	0°34'45	13°34'3	10°34'39	5°34'22	6°34'5	22°34'23	21°34'2	29°34'43	17°34'51	T 30
W31	9 16 25	20°29'40	2°34'2	2°34'16	13°34'32	11°34'33	0°34'37	13°34'1	10°34'41	5°34'23	6°34'4	22°34'13	20°34'58	29°34'49	17°34'54	W31

Delta T = 05m31s

Julian Calendar 1 Jan. 1481 == Greg. Calendar 10 Jan. 1481

FEBRUARY 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 20 21	21°30'14	14°37	1°R43	14°47	12°Y16	0°R30	12°R59	10°43	5°24	6°R 3	22°R 1	20°II55	29°Y56	17°X58	T 1
F 2	9 24 18	22°30'46	26°57	1°H 2	16° 1	12°59	0°L23	12°L57	10°45	5°25	6°L 2	21°II50	20°52	0°X 3	18° 1	F 2
S 3	9 28 14	23°31'16	9°Y 6	0°13	17°15	13°42	0°16	12°55	10°46	5°26	6° 1	21°40	20°49	0°10	18° 5	S 3
S 4	9 32 11	24°31'44	21° 4	29°17	18°30	14°25	0°10	12°53	10°48	5°27	6° 0	21°32	20°46	0°16	18° 8	S 4
M 5	9 36 7	25°32'11	2°55	28°17	19°44	15° 8	0° 3	12°51	10°50	5°27	5°59	21°27	20°42	0°23	18°12	M 5
T 6	9 40 4	26°32'35	14°45	27°13	20°58	15°51	29°57	12°48	10°51	5°28	5°58	21°24	20°39	0°30	18°15	T 6
W 7	9 44 0	27°32'58	26°36	26° 7	22°12	16°34	29°50	12°46	10°53	5°29	5°57	21°D24	20°36	0°36	18°19	W 7
T 8	9 47 57	28°33'19	8°II36	25° 2	23°26	17°17	29°44	12°43	10°54	5°29	5°55	21°24	20°33	0°43	18°22	T 8
F 9	9 51 54	29°33'37	20°49	23°58	24°41	18° 0	29°38	12°40	10°55	5°30	5°54	21°R24	20°30	0°50	18°26	F 9
S 10	9 55 50	0°H33'54	3°E21	22°57	25°55	18°43	29°32	12°38	10°57	5°30	5°53	21°24	20°27	0°56	18°29	S 10
S 11	9 59 47	1°34'09	16°15	22° 0	27° 9	19°25	29°26	12°35	10°58	5°31	5°52	21°21	20°23	1° 3	18°33	S 11
M12	10 3 43	2°34'22	29°35	21° 8	28°23	20° 8	29°20	12°32	10°59	5°32	5°50	21°16	20°20	1°10	18°36	M12
T 13	10 7 40	3°34'32	13°L21	20°22	29°37	20°51	29°15	12°29	11° 1	5°32	5°49	21° 8	20°17	1°16	18°40	T 13
W14	10 11 36	4°34'41	27°32	19°43	0°Y50	21°33	29° 9	12°26	11° 2	5°32	5°48	20°58	20°14	1°23	18°44	W14
T 15	10 15 33	5°34'48	12°m 2	19°10	2° 4	22°16	29° 4	12°23	11° 3	5°33	5°46	20°47	20°11	1°30	18°47	T 15
F 16	10 19 30	6°34'53	26°45	18°44	3°18	22°59	28°59	12°19	11° 4	5°33	5°45	20°35	20° 8	1°36	18°51	F 16
S 17	10 23 26	7°34'56	11°L33	18°25	4°32	23°41	28°54	12°16	11° 5	5°34	5°43	20°25	20° 4	1°43	18°55	S 17
S 18	10 27 23	8°34'57	26°16	18°13	5°45	24°24	28°49	12°13	11° 6	5°34	5°42	20°18	20° 1	1°50	18°58	S 18
M19	10 31 19	9°34'57	10°m.50	18°D 7	6°59	25° 6	28°45	12° 9	11° 7	5°34	5°41	20°12	19°58	1°57	19° 2	M19
T 20	10 35 16	10°34'55	25° 9	18° 8	8°13	25°49	28°40	12° 6	11° 7	5°34	5°39	20°10	19°55	2° 3	19° 6	T 20
W21	10 39 12	11°34'52	9°X11	18°15	9°26	26°31	28°36	12° 2	11° 8	5°35	5°38	20°D 9	19°52	2°10	19° 9	W21
T 22	10 43 9	12°34'47	22°56	18°28	10°40	27°13	28°32	11°58	11° 9	5°35	5°36	20°R 9	19°48	2°17	19°13	T 22
F 23	10 47 5	13°34'40	6°E26	18°47	11°53	27°56	28°28	11°55	11°10	5°35	5°35	20° 9	19°45	2°23	19°17	F 23
S 24	10 51 2	14°34'32	19°42	19°10	13° 7	28°38	28°24	11°51	11°10	5°35	5°33	20° 6	19°42	2°30	19°20	S 24
S 25	10 54 58	15°34'22	2°45	19°39	14°20	29°20	28°21	11°47	11°11	5°35	5°32	20° 1	19°39	2°37	19°24	S 25
M26	10 58 55	16°34'10	15°37	20°12	15°33	0°X 2	28°18	11°43	11°11	5°35	5°30	19°52	19°36	2°43	19°28	M26
T 27	11 2 52	17°33'56	28°18	20°49	16°47	0°45	28°14	11°39	11°12	5°R35	5°28	19°41	19°33	2°50	19°32	T 27
W28	11 6 48	18°H33'40	10°H49	21°30	18°Y 0	1°E27	28°E11	11°L35	11°X12	5°X35	5°L27	19°II28	19°II29	2°L57	19°H35	W28

# ASTRODIENST EPHEMERIS for the year 1481

## geocentric

MARCH 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 10 45	19°33'23	23°9	22°15	19°13	28°9	28°R 9	11°R31	11°12	5°R35	5°R25	19°R13	19°II26	38°3	19°39	T 1
F 2	11 14 41	20°33'03	5°Y20	23°4	20°26	2°51	28°6	11°27	11°13	5°35	5°24	18°II59	19°23	3°10	19°43	F 2
S 3	11 18 38	21°32'41	17°22	23°55	21°39	3°33	28°4	11°23	11°13	5°35	5°22	18°47	19°20	3°17	19°46	S 3
S 4	11 22 34	22°32'17	29°17	24°50	22°52	4°15	28°1	11°18	11°13	5°35	5°20	18°36	19°17	3°23	19°50	S 4
M 5	11 26 31	23°31'50	11°8	25°48	24°5	4°57	27°59	11°14	11°13	5°34	5°19	18°29	19°13	3°30	19°54	M 5
T 6	11 30 27	24°31'22	22°54	26°49	25°18	5°39	27°57	11°10	11°13	5°34	5°17	18°24	19°10	3°37	19°58	T 6
W 7	11 34 24	25°30'51	4°II44	27°52	26°31	6°21	27°56	11°5	11°R13	5°34	5°16	18°22	19°7	3°44	20°1	W 7
T 8	11 38 21	26°30'18	16°42	28°57	27°43	7°3	27°54	11°1	11°13	5°34	5°14	18°D21	19°4	3°50	20°5	T 8
F 9	11 42 17	27°29'43	28°52	0°X5	28°56	7°44	27°53	10°57	11°13	5°33	5°12	18°R21	19°1	3°57	20°9	F 9
S 10	11 46 14	28°29'05	11°20	1°16	0°8	8°26	27°52	10°52	11°13	5°33	5°11	18°21	18°58	4°4	20°12	S 10
S 11	11 50 10	29°28'25	24°12	2°28	1°21	9°8	27°51	10°48	11°13	5°32	5°9	18°18	18°54	4°10	20°16	S 11
M12	11 54 7	0°Y27'43	7°II31	3°42	2°34	9°50	27°50	10°43	11°13	5°32	5°7	18°14	18°51	4°17	20°20	M12
T 13	11 58 3	1°26'58	21°19	4°59	3°46	10°31	27°50	10°39	11°12	5°32	5°6	18°7	18°48	4°24	20°23	T 13
W14	12 2 0	2°26'11	5°II36	6°17	4°58	11°13	27°49	10°34	11°12	5°31	5°4	17°58	18°45	4°30	20°27	W14
T 15	12 5 56	3°25'22	20°18	7°37	6°11	11°54	27°D49	10°30	11°12	5°31	5°2	17°47	18°42	4°37	20°31	T 15
F 16	12 9 53	4°24'30	5°II18	8°59	7°23	12°36	27°49	10°25	11°11	5°30	5°1	17°36	18°39	4°44	20°34	F 16
S 17	12 13 50	5°23'37	20°26	10°22	8°35	13°17	27°49	10°20	11°11	5°29	4°59	17°26	18°35	4°50	20°38	S 17
S 18	12 17 46	6°22'41	5°II33	11°48	9°47	13°59	27°50	10°16	11°10	5°29	4°57	17°19	18°32	4°57	20°41	S 18
M19	12 21 43	7°21'44	20°28	13°15	10°59	14°40	27°50	10°11	11°10	5°28	4°56	17°14	18°29	5°4	20°45	M19
T 20	12 25 39	8°20'45	5°X4	14°43	12°11	15°22	27°51	10°7	11°9	5°28	4°54	17°11	18°26	5°10	20°49	T 20
W21	12 29 36	9°19'44	19°19	16°13	13°22	16°3	27°52	10°2	11°8	5°27	4°52	17°D11	18°23	5°17	20°52	W21
T 22	12 33 32	10°18'42	3°II11	17°45	14°34	16°44	27°53	9°57	11°7	5°26	4°51	17°11	18°19	5°24	20°56	T 22
F 23	12 37 29	11°17'37	16°40	19°18	15°46	17°26	27°55	9°53	11°7	5°25	4°49	17°R11	18°16	5°30	20°59	F 23
S 24	12 41 25	12°16'31	29°49	20°53	16°57	18°7	27°56	9°48	11°6	5°25	4°47	17°10	18°13	5°37	21°3	S 24
S 25	12 45 22	13°15'24	12°II2	22°30	18°9	18°48	27°58	9°43	11°5	5°24	4°46	17°6	18°10	5°44	21°6	S 25
M26	12 49 19	14°14'14	25°19	24°8	19°20	19°29	28°0	9°39	11°4	5°23	4°44	17°0	18°7	5°51	21°10	M26
T 27	12 53 15	15°13'02	7°II45	25°48	20°32	20°10	28°2	9°34	11°3	5°22	4°42	16°51	18°4	5°57	21°13	T 27
W28	12 57 12	16°11'49	20°1	27°29	21°43	20°51	28°4	9°30	11°2	5°21	4°41	16°41	18°0	6°4	21°17	W28
T 29	13 1 8	17°10'34	2°Y8	29°12	22°54	21°32	28°7	9°25	11°1	5°20	4°39	16°29	17°57	6°11	21°20	T 29
F 30	13 5 5	18°9'16	14°9	0°Y56	24°5	22°13	28°9	9°20	11°0	5°19	4°37	16°18	17°54	6°17	21°24	F 30
S 31	13 9 1	19°Y7'57	26°Y4	2°Y42	25°II16	22°II54	28°II12	9°II16	10°X59	5°X18	4°II36	16°II8	17°II51	6°II24	21°X27	S 31

Delta T = 05m30s

Julian Calendar 1 March 1481 == Greg. Calendar 10 March 1481

APRIL 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 12 58	20°Y6'36	7°II54	4°Y29	26°II27	23°II35	28°II15	9°R11	10°R57	5°R17	4°R34	15°R59	17°II48	68°31	21°X30	S 1
M 2	13 16 54	21°5'13	19°42	6°18	27°38	24°16	28°18	9°II7	10°X56	5°X16	4°II33	15°II54	17°45	6°37	21°34	M 2
T 3	13 20 51	22°3'48	1°II30	8°9	28°49	24°57	28°22	9°2	10°55	5°15	4°31	15°50	17°41	6°44	21°37	T 3
W 4	13 24 47	23°2'20	13°22	10°1	29°59	25°38	28°25	8°58	10°53	5°14	4°29	15°D49	17°38	6°51	21°40	W 4
T 5	13 28 44	24°0'51	25°21	11°55	1°II10	26°19	28°29	8°54	10°52	5°13	4°28	15°49	17°35	6°57	21°44	T 5
F 6	13 32 41	24°59'20	7°II31	13°51	2°20	26°59	28°33	8°49	10°51	5°12	4°26	15°50	17°32	7°4	21°47	F 6
S 7	13 36 37	25°57'46	19°58	15°48	3°31	27°40	28°37	8°45	10°49	5°11	4°25	15°R51	17°29	7°11	21°50	S 7
S 8	13 40 34	26°56'10	2°II46	17°47	4°41	28°21	28°41	8°41	10°48	5°10	4°23	15°51	17°25	7°17	21°53	S 8
M 9	13 44 30	27°54'32	15°59	19°47	5°51	29°2	28°45	8°36	10°46	5°8	4°22	15°50	17°22	7°24	21°56	M 9
T 10	13 48 27	28°52'52	29°41	21°49	7°1	29°42	28°50	8°32	10°45	5°7	4°20	15°46	17°19	7°31	22°0	T 10
W11	13 52 23	29°51'10	13°II52	23°52	8°11	0°II23	28°55	8°28	10°43	5°6	4°19	15°41	17°16	7°37	22°3	W11
T 12	13 56 20	0°X49'25	28°31	25°56	9°21	1°3	29°0	8°24	10°41	5°5	4°17	15°35	17°13	7°44	22°6	T 12
F 13	14 0 16	1°47'39	13°II31	28°2	10°31	1°44	29°5	8°20	10°40	5°3	4°16	15°28	17°10	7°51	22°9	F 13
S 14	14 4 13	2°45'50	28°44	0°8	11°40	2°24	29°10	8°16	10°38	5°2	4°14	15°22	17°6	7°57	22°12	S 14
S 15	14 8 10	3°44'00	14°II0	2°17	12°50	3°5	29°15	8°12	10°36	5°1	4°13	15°17	17°3	8°4	22°15	S 15
M16	14 12 6	4°42'09	29°9	4°26	13°59	3°45	29°20	8°8	10°34	5°0	4°12	15°14	17°0	8°11	22°18	M16
T 17	14 16 3	5°40'16	14°X1	6°35	15°8	4°25	29°26	8°4	10°32	4°58	4°10	15°D14	16°57	8°17	22°21	T 17
W18	14 19 59	6°38'21	28°31	8°45	16°17	5°6	29°32	8°0	10°31	4°57	4°9	15°14	16°54	8°24	22°24	W18
T 19	14 23 56	7°36'25	12°II35	10°55	17°26	5°46	29°38	7°57	10°29	4°55	4°8	15°15	16°51	8°31	22°26	T 19
F 20	14 27 52	8°34'27	26°12	13°5	18°35	6°26	29°44	7°53	10°27	4°54	4°6	15°17	16°47	8°37	22°29	F 20
S 21	14 31 49	9°32'28	9°II25	15°14	19°44	7°6	29°50	7°49	10°25	4°53	4°5	15°R17	16°44	8°44	22°32	S 21
S 22	14 35 45	10°30'28	22°16	17°23	20°53	7°47	29°56	7°46	10°23	4°51	4°4	15°17	16°41	8°51	22°35	S 22
M23	14 39 42	11°28'26	4°II49	19°31	22°1	8°27	0°II3	7°42	10°21	4°50	4°2	15°14	16°38	8°57	22°37	M23
T 24	14 43 39	12°26'23	17°7	21°38	23°9	9°7	0°10	7°39	10°19	4°48	4°1	15°11	16°35	9°4	22°40	T 24
W25	14 47 35	13°24'19	29°14	23°43	24°18	9°47	0°16	7°36	10°16	4°47	4°0	15°6	16°31	9°11	22°43	W25
T 26	14 51 32	14°22'13	11°Y13	25°46	25°26	10°27	0°23	7°32	10°14	4°45	3°59	15°1	16°28	9°17	22°45	T 26
F 27	14 55 28	15°20'06	23°6	27°47	26°34	11°7	0°30	7°29	10°12	4°44	3°58	14°55	16°25	9°24	22°48	F 27
S 28	14 59 25	16°17'57	4°II56	29°46	27°41	11°47	0°38	7°26	10°10	4°42	3°56	14°51	16°22	9°31	22°50	S 28
S 29	15 3 21	17°15'48	16°45	1°II43	28°49	12°27	0°45	7°23	10°8	4°41	3°55	14°47	16°19	9°38	22°53	S 29
M30	15 7 18	18°II3'36	28°II34	3°II37	29°II57	13°II7	0°II52	7°II20	10°X6	4°X39	3°II54	14°II44	16°II16	9°II44	22°X55	M30

Delta T = 05m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1481

## geocentric

MAY 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 11 14	19°8'11"23	10°11'26	5°11'28	1°58'4	13°11'47	1°0'0	7°R17	10°R 3	4°R38	3°R53	14°D43	16°11'12	9°51	22°58	T 1
W 2	15 15 11	20°9'09	22°24	7°16	2°11	14°27	1°8	7°15	10°1	4°36	3°52	14°11'43	16°9	9°58	23°0	W 2
T 3	15 19 8	21°6'53	4°29	9°2	3°18	15°7	1°15	7°12	9°59	4°35	3°51	14°44	16°6	10°4	23°2	T 3
F 4	15 23 4	22°4'36	16°46	10°44	4°25	15°47	1°23	7°9	9°57	4°33	3°50	14°46	16°3	10°11	23°5	F 4
S 5	15 27 1	23°2'17	29°17	12°23	5°32	16°26	1°31	7°7	9°54	4°32	3°49	14°48	16°0	10°18	23°7	S 5
S 6	15 30 57	23°59'57	12°7	13°59	6°38	17°6	1°40	7°4	9°52	4°30	3°48	14°49	15°56	10°24	23°9	S 6
M 7	15 34 54	24°57'35	25°18	15°32	7°44	17°46	1°48	7°2	9°50	4°28	3°47	14°R49	15°53	10°31	23°11	M 7
T 8	15 38 50	25°55'11	8°53	17°2	8°51	18°26	1°56	7°0	9°47	4°27	3°47	14°49	15°50	10°38	23°13	T 8
W 9	15 42 47	26°52'46	22°53	18°28	9°57	19°5	2°5	6°58	9°45	4°25	3°46	14°47	15°47	10°44	23°16	W 9
T 10	15 46 43	27°50'19	7°19	19°51	11°2	19°45	2°14	6°56	9°42	4°24	3°45	14°46	15°44	10°51	23°18	T 10
F 11	15 50 40	28°47'51	22°5	21°11	12°8	20°25	2°22	6°54	9°40	4°22	3°44	14°44	15°41	10°58	23°19	F 11
S 12	15 54 37	29°45'22	7°17	22°27	13°13	21°4	2°31	6°52	9°38	4°20	3°43	14°42	15°37	11°4	23°21	S 12
S 13	15 58 33	0°11'42'51	22°17	23°40	14°18	21°44	2°40	6°50	9°35	4°19	3°43	14°40	15°34	11°11	23°23	S 13
M14	16 2 30	1°40'19	7°24	24°49	15°23	22°23	2°49	6°48	9°33	4°17	3°42	14°D40	15°31	11°18	23°25	M14
T 15	16 6 26	2°37'47	22°20	25°54	16°28	23°3	2°59	6°46	9°30	4°15	3°41	14°40	15°28	11°24	23°27	T 15
W16	16 10 23	3°35'13	6°57	26°56	17°32	23°42	3°8	6°45	9°28	4°14	3°41	14°40	15°25	11°31	23°29	W16
T 17	16 14 19	4°32'39	21°10	27°55	18°36	24°22	3°17	6°44	9°25	4°12	3°40	14°41	15°22	11°38	23°30	T 17
F 18	16 18 16	5°30'04	4°57	28°49	19°40	25°1	3°27	6°42	9°23	4°11	3°39	14°42	15°18	11°44	23°32	F 18
S 19	16 22 13	6°27'28	18°17	29°40	20°44	25°41	3°36	6°41	9°21	4°9	3°39	14°43	15°15	11°51	23°34	S 19
S 20	16 26 9	7°24'51	1°13	0°27	21°48	26°20	3°46	6°40	9°18	4°7	3°38	14°43	15°12	11°58	23°35	S 20
M21	16 30 6	8°22'14	13°47	1°9	22°51	26°59	3°56	6°39	9°16	4°6	3°38	14°R43	15°9	12°4	23°37	M21
T 22	16 34 2	9°19'36	26°4	1°48	23°54	27°39	4°6	6°38	9°13	4°4	3°37	14°43	15°6	12°11	23°38	T 22
W23	16 37 59	10°16'58	8°8	2°22	24°56	28°18	4°16	6°37	9°11	4°3	3°37	14°42	15°2	12°18	23°39	W23
T 24	16 41 55	11°14'19	20°3	2°52	25°59	28°57	4°26	6°36	9°8	4°1	3°37	14°42	14°59	12°24	23°41	T 24
F 25	16 45 52	12°11'39	1°53	3°18	27°1	29°36	4°36	6°36	9°6	3°59	3°36	14°41	14°56	12°31	23°42	F 25
S 26	16 49 48	13°8'59	13°41	3°39	28°3	0°16	4°46	6°35	9°3	3°58	3°36	14°41	14°53	12°38	23°43	S 26
S 27	16 53 45	14°6'19	25°31	3°56	29°4	0°55	4°57	6°35	9°1	3°56	3°36	14°41	14°50	12°44	23°45	S 27
M28	16 57 41	15°3'37	7°11'25	4°9	0°6	1°34	5°7	6°34	8°58	3°55	3°35	14°D41	14°47	12°51	23°46	M28
T 29	17 1 38	16°0'56	19°25	4°16	1°6	2°13	5°17	6°34	8°56	3°53	3°35	14°R41	14°43	12°58	23°47	T 29
W30	17 5 35	16°58'13	1°33	4°R19	2°7	2°52	5°28	6°34	8°53	3°51	3°35	14°41	14°40	13°4	23°48	W30
T 31	17 9 31	17°11'55'30	13°52	4°18	3°6	3°31	5°39	6°D34	8°51	3°50	3°35	14°11'41	14°11'37	13°11	23°49	T 31

Delta T = 05m30s

Julian Calendar 1 May 1481 == Greg. Calendar 10 May 1481

JUNE 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 13 28	18°11'52'47	26°22	4°R12	4°6	4°11	5°49	6°34	8°R49	3°R48	3°R35	14°R40	14°11'34	13°18	23°50	F 1
S 2	17 17 24	19°50'03	9°6	4°2	5°7	4°50	6°0	6°34	8°46	3°47	3°34	14°11'40	14°31	13°24	23°51	S 2
S 3	17 21 21	20°47'17	22°5	3°48	6°6	5°29	6°11	6°34	8°44	3°45	3°34	14°39	14°28	13°31	23°51	S 3
M 4	17 25 17	21°44'32	5°11'21	3°29	7°4	6°8	6°22	6°35	8°41	3°44	3°D34	14°39	14°24	13°38	23°52	M 4
T 5	17 29 14	22°41'45	18°56	3°7	8°3	6°47	6°33	6°35	8°39	3°42	3°34	14°D38	14°21	13°44	23°53	T 5
W 6	17 33 11	23°38'58	2°49	2°42	9°1	7°26	6°44	6°36	8°37	3°41	3°34	14°38	14°18	13°51	23°54	W 6
T 7	17 37 7	24°36'10	17°1	2°14	9°58	8°5	6°56	6°36	8°34	3°39	3°35	14°39	14°15	13°58	23°54	T 7
F 8	17 41 4	25°33'21	1°11'29	1°43	10°55	8°44	7°7	6°37	8°32	3°38	3°35	14°40	14°12	14°4	23°55	F 8
S 9	17 45 0	26°30'32	16°11	1°10	11°52	9°22	7°18	6°38	8°30	3°36	3°35	14°41	14°8	14°11	23°55	S 9
S 10	17 48 57	27°27'43	1°17	0°35	12°48	10°1	7°29	6°39	8°27	3°35	3°35	14°41	14°5	14°18	23°56	S 10
M11	17 52 53	28°24'53	15°51	29°11'59	13°44	10°40	7°41	6°40	8°25	3°33	3°35	14°R42	14°2	14°24	23°56	M11
T 12	17 56 50	29°22'03	0°35	29°24	14°39	11°19	7°52	6°41	8°23	3°32	3°35	14°41	13°59	14°31	23°57	T 12
W13	18 0 46	0°19'13	15°7	28°48	15°33	11°58	8°4	6°42	8°21	3°30	3°36	14°40	13°56	14°38	23°57	W13
T 14	18 4 43	1°16'23	29°19	28°14	16°27	12°37	8°16	6°43	8°18	3°29	3°36	14°38	13°53	14°44	23°57	T 14
F 15	18 8 40	2°13'33	13°9	27°41	17°21	13°16	8°27	6°45	8°16	3°28	3°36	14°36	13°49	14°51	23°57	F 15
S 16	18 12 36	3°10'43	26°33	27°10	18°13	13°54	8°39	6°46	8°14	3°26	3°37	14°34	13°46	14°58	23°57	S 16
S 17	18 16 33	4°7'53	9°11'33	26°41	19°6	14°33	8°51	6°48	8°12	3°25	3°37	14°31	13°43	15°4	23°57	S 17
M18	18 20 29	5°5'03	22°11	26°16	19°57	15°12	9°3	6°50	8°10	3°24	3°37	14°30	13°40	15°11	23°57	M18
T 19	18 24 26	6°2'14	4°17'30	25°54	20°48	15°50	9°15	6°52	8°8	3°22	3°38	14°D29	13°37	15°18	23°57	T 19
W20	18 28 22	6°59'25	16°35	25°36	21°39	16°29	9°27	6°54	8°6	3°21	3°38	14°30	13°34	15°24	23°57	W20
T 21	18 32 19	7°56'36	28°29	25°23	22°28	17°8	9°39	6°56	8°4	3°20	3°39	14°31	13°30	15°31	23°57	T 21
F 22	18 36 15	8°53'48	10°18	25°14	23°17	17°47	9°51	6°58	8°2	3°18	3°40	14°32	13°27	15°38	23°57	F 22
S 23	18 40 12	9°51'00	22°7	25°D10	24°6	18°25	10°3	7°0	8°0	3°17	3°40	14°34	13°24	15°44	23°57	S 23
S 24	18 44 9	10°48'12	4°11	25°11	24°53	19°4	10°15	7°2	7°58	3°16	3°41	14°35	13°21	15°51	23°56	S 24
M25	18 48 5	11°45'25	16°0	25°17	25°40	19°43	10°27	7°5	7°56	3°15	3°41	14°R36	13°18	15°58	23°56	M25
T 26	18 52 2	12°42'39	28°9	25°28	26°25	20°21	10°40	7°7	7°54	3°14	3°42	14°35	13°14	16°4	23°56	T 26
W27	18 55 58	13°39'52	10°32	25°45	27°10	21°0	10°52	7°10	7°52	3°13	3°43	14°33	13°11	16°11	23°55	W27
T 28	18 59 55	14°37'06	23°7	26°7	27°54	21°38	11°4	7°12	7°50	3°11	3°44	14°29	13°8	16°18	23°55	T 28
F 29	19 3 51	15°34'21	5°57	26°35	28°38	22°17	11°17	7°15	7°48	3°10	3°44	14°25	13°5	16°24	23°54	F 29
S 30	19 7 48	16°31'35	19°2	27°11	29°20	22°55	11°29	7°18	7°47	3°9	3°45	14°11'20	13°11	16°31	23°54	S 30

Delta T = 05m30s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1481

## geocentric

JULY 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 11 44	17°28'50	2°19	27°46	0°11	23°34	11°42	7°21	7°R45	3°R 8	3°46	14°R15	12°II59	16°838	23°R53	S 1
M 2	19 15 41	18°26'05	15°50	28°30	0°41	24°13	11°54	7°24	7°43	3°7	3°47	14°II10	12°55	16°44	23°52	M 2
T 3	19 19 38	19°23'21	29°34	29°19	1°20	24°51	12° 7	7°27	7°42	3° 6	3°48	14° 7	12°52	16°51	23°51	T 3
W 4	19 23 34	20°20'36	13°28	0°13	1°58	25°30	12°19	7°30	7°40	3° 5	3°49	14° 6	12°49	16°58	23°50	W 4
T 5	19 27 31	21°17'52	27°33	1°12	2°35	26° 8	12°32	7°33	7°39	3° 4	3°50	14°D 6	12°46	17° 4	23°50	T 5
F 6	19 31 27	22°15'08	11°46	2°17	3°10	26°47	12°45	7°37	7°37	3° 3	3°51	14° 7	12°43	17°11	23°49	F 6
S 7	19 35 24	23°12'24	26° 7	3°27	3°45	27°25	12°57	7°40	7°35	3° 2	3°52	14° 8	12°40	17°17	23°48	S 7
S 8	19 39 20	24° 9'41	10°32	4°41	4°18	28° 3	13°10	7°44	7°34	3° 2	3°53	14°R 9	12°36	17°24	23°47	S 8
M 9	19 43 17	25° 6'59	24°59	6° 0	4°49	28°42	13°23	7°47	7°33	3° 1	3°54	14° 9	12°33	17°31	23°46	M 9
T 10	19 47 14	26° 4'17	9°21	7°24	5°19	29°20	13°35	7°51	7°31	3° 0	3°55	14° 7	12°30	17°37	23°44	T 10
W11	19 51 10	27° 1'35	23°34	8°53	5°48	29°59	13°48	7°55	7°30	2°59	3°56	14° 2	12°27	17°44	23°43	W11
T 12	19 55 7	27°58'55	7°34	10°25	6°15	0°137	14° 1	7°59	7°29	2°58	3°58	13°56	12°24	17°51	23°42	T 12
F 13	19 59 3	28°56'15	21°15	12° 2	6°41	1°15	14°14	8° 3	7°27	2°58	3°59	13°49	12°20	17°57	23°41	F 13
S 14	20 3 0	29°53'36	4°36	13°43	7° 5	1°54	14°27	8° 7	7°26	2°57	4° 0	13°42	12°17	18° 4	23°39	S 14
S 15	20 6 56	0°50'58	17°35	15°28	7°27	2°32	14°40	8°11	7°25	2°56	4° 1	13°35	12°14	18°11	23°38	S 15
M16	20 10 53	1°48'21	0°13	17°16	7°47	3°11	14°53	8°15	7°24	2°55	4° 3	13°29	12°11	18°17	23°37	M16
T 17	20 14 49	2°45'45	12°33	19° 7	8° 6	3°49	15° 5	8°19	7°23	2°55	4° 4	13°25	12° 8	18°24	23°35	T 17
W18	20 18 46	3°43'10	24°38	21° 1	8°23	4°27	15°18	8°24	7°22	2°54	4° 5	13°23	12° 5	18°31	23°34	W18
T 19	20 22 42	4°40'37	6°32	22°57	8°37	5° 6	15°31	8°28	7°21	2°54	4° 7	13°D22	12° 1	18°37	23°32	T 19
F 20	20 26 39	5°38'05	18°22	24°56	8°50	5°44	15°44	8°32	7°20	2°53	4° 8	13°23	11°58	18°44	23°30	F 20
S 21	20 30 36	6°35'34	0°12	26°56	9° 1	6°22	15°57	8°37	7°19	2°53	4°10	13°24	11°55	18°51	23°29	S 21
S 22	20 34 32	7°33'05	12° 7	28°57	9°10	7° 1	16°10	8°42	7°18	2°52	4°11	13°R25	11°52	18°57	23°27	S 22
M23	20 38 29	8°30'37	24°11	1°10	9°16	7°39	16°23	8°46	7°18	2°52	4°13	13°24	11°49	19° 4	23°25	M23
T 24	20 42 25	9°28'10	6°30	3° 3	9°21	8°17	16°37	8°51	7°17	2°51	4°14	13°21	11°46	19°11	23°23	T 24
W25	20 46 22	10°25'44	19° 5	5° 6	9°R23	8°55	16°50	8°56	7°16	2°51	4°16	13°17	11°42	19°17	23°22	W25
T 26	20 50 18	11°23'20	1°59	7°10	9°23	9°34	17° 3	9° 1	7°16	2°51	4°17	13° 9	11°39	19°24	23°20	T 26
F 27	20 54 15	12°20'57	15°10	9°13	9°20	10°12	17°16	9° 6	7°15	2°50	4°19	13° 0	11°36	19°31	23°18	F 27
S 28	20 58 12	13°18'36	28°39	11°16	9°16	10°50	17°29	9°11	7°14	2°50	4°20	12°50	11°33	19°37	23°16	S 28
S 29	21 2 8	14°16'15	12°12	13°18	9° 8	11°29	17°42	9°16	7°14	2°50	4°22	12°41	11°30	19°44	23°14	S 29
M30	21 6 5	15°13'55	26°16	15°20	8°59	12° 7	17°55	9°21	7°13	2°49	4°24	12°32	11°26	19°51	23°12	M30
T 31	21 10 1	16°11'37	10°17	17°20	8°47	12°45	18°18	9°26	7°13	2°49	4°26	12°II25	11°II23	19°57	23°10	T 31

Delta T = 05m30s

Julian Calendar 1 July 1481 == Greg. Calendar 10 July 1481

AUGUST 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 13 58	17°19'20	24°23	19°20	8°R33	13°123	18°121	9°32	7°R13	2°R49	4°27	12°R21	11°II20	20°8 4	23°R 8	W 1
T 2	21 17 54	18° 7'03	8°13	21°18	8°16	14° 1	18°34	9°37	7°12	2°49	4°29	12°II19	11°17	20°11	23°5 5	T 2
F 3	21 21 51	19° 4'48	22°30	23°15	7°57	14°40	18°47	9°43	7°12	2°49	4°31	12°D18	11°14	20°17	23° 3	F 3
S 4	21 25 47	20° 2'34	6°47	25°11	7°36	15°18	19° 1	9°48	7°12	2°49	4°33	12°R19	11°11	20°24	23° 1	S 4
S 5	21 29 44	21° 0'22	20°52	27° 6	7°13	15°56	19°14	9°54	7°12	2°49	4°34	12°19	11° 7	20°31	22°59	S 5
M 6	21 33 41	21°58'10	4°54	28°59	6°47	16°34	19°27	9°59	7°12	2°D49	4°36	12°17	11° 4	20°37	22°57	M 6
T 7	21 37 37	22°56'00	18°51	0°11	6°20	17°13	19°40	10° 5	7°D12	2°49	4°38	12°13	11° 1	20°44	22°54	T 7
W 8	21 41 34	23°53'51	2°40	2°42	5°50	17°51	19°53	10°11	7°12	2°49	4°40	12° 5	10°58	20°51	22°52	W 8
T 9	21 45 30	24°51'43	16°18	4°31	5°19	18°29	20° 6	10°16	7°12	2°49	4°42	11°56	10°55	20°57	22°50	T 9
F 10	21 49 27	25°49'37	29°42	6°19	4°47	19° 7	20°19	10°22	7°12	2°49	4°44	11°45	10°52	21° 4	22°47	F 10
S 11	21 53 23	26°47'32	12°50	8° 6	4°13	19°45	20°32	10°28	7°12	2°49	4°46	11°32	10°48	21°10	22°45	S 11
S 12	21 57 20	27°45'29	25°40	9°51	3°38	20°23	20°45	10°34	7°12	2°49	4°48	11°21	10°45	21°17	22°42	S 12
M13	22 1 16	28°43'28	8°13	11°35	3° 2	21° 2	20°58	10°40	7°13	2°50	4°50	11°11	10°42	21°24	22°40	M13
T 14	22 5 13	29°41'28	20°29	13°18	2°26	21°40	21°11	10°46	7°13	2°50	4°52	11° 3	10°39	21°30	22°37	T 14
W15	22 9 9	0°13'31	2°32	15° 0	1°49	22°18	21°24	10°52	7°13	2°50	4°54	10°57	10°36	21°37	22°35	W15
T 16	22 13 6	1°37'35	14°26	16°40	1°12	22°56	21°37	10°58	7°14	2°50	4°56	10°54	10°32	21°44	22°32	T 16
F 17	22 17 3	2°35'41	26°14	18°19	0°34	23°34	21°50	11° 5	7°14	2°51	4°58	10°53	10°29	21°50	22°30	F 17
S 18	22 20 59	3°33'50	8°11	19°57	29°58	24°12	22° 3	11°11	7°15	2°51	5° 0	10°53	10°26	21°57	22°27	S 18
S 19	22 24 56	4°32'00	19°59	21°33	29°21	24°51	22°16	11°17	7°15	2°52	5° 2	10°53	10°23	22° 4	22°24	S 19
M20	22 28 52	5°30'13	2°6	23° 9	28°46	25°29	22°29	11°23	7°16	2°52	5° 4	10°52	10°20	22°10	22°22	M20
T 21	22 32 49	6°28'27	14°29	24°43	28°11	26° 7	22°42	11°30	7°17	2°53	5° 6	10°48	10°17	22°17	22°19	T 21
W22	22 36 45	7°26'43	27°12	26°16	27°38	26°45	22°55	11°36	7°17	2°53	5° 8	10°42	10°13	22°24	22°16	W22
T 23	22 40 42	8°25'02	10°18	27°48	27° 6	27°23	23° 8	11°43	7°18	2°54	5°10	10°34	10°10	22°30	22°14	T 23
F 24	22 44 38	9°23'22	23°47	29°19	26°35	28° 2	23°21	11°49	7°19	2°54	5°13	10°23	10° 7	22°37	22°11	F 24
S 25	22 48 35	10°21'44	7°13	0°48	26° 6	28°40	23°33	11°56	7°20	2°55	5°15	10°11	10° 4	22°44	22° 8	S 25
S 26	22 52 32	11°20'08	21°46	2°16	25°40	29°18	23°46	12° 2	7°21	2°55	5°17	9°59	10° 1	22°50	22° 5	S 26
M27	22 56 28	12°18'34	6°11	3°44	25°15	29°56	23°59	12° 9	7°22	2°56	5°19	9°48	9°57	22°57	22° 3	M27
T 28	23 0 25	13°17'02	20°33	5°10	24°52	0°13	24°12	12°16	7°23	2°57	5°21	9°39	9°54	23° 4	22° 0	T 28
W29	23 4 21	14°15'31	5°11	6°34	24°31	1°12	24°24	12°22	7°24	2°58	5°23	9°34	9°51	23°10	21°57	W29
T 30	23 8 18	15°14'02	19°23	7°58	24°13	1°50	24°37	12°29	7°25	2°58	5°26	9°31	9°48	23°17	21°54	T 30
F 31	23 12 14	16°12'35	3°17	9°40	23°57	2°19	24°50	12°36	7°26	2°59	5°28	9°II30	9°II45	23°24	21°52	F 31

Delta T = 05m29s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1481

## geocentric

SEPTEMBER 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 16 11	17 <sup>11</sup> 11'09	17 <sup>17</sup> 43	10 <sup>41</sup> 41	23°R43	3 <sup>11</sup> 7	25 <sup>12</sup> 2	12 <sup>43</sup> 3	7 <sup>28</sup> 28	3 <sup>17</sup> 0	5 <sup>30</sup> 30	9°R30	9 <sup>42</sup> 42	23 <sup>30</sup> 30	21°R49	S 1
S 2	23 20 7	18° 9'45	1 <sup>38</sup> 38	12° 0'	23 <sup>12</sup> 32	3°45	25°15	12°49	7°29	3° 1	5°32	9 <sup>29</sup> 29	9°38	23°37	21 <sup>46</sup> 46	S 2
M 3	23 24 4	19° 8'23	15°24	13°18	23°23	4°23	25°27	12°56	7°30	3° 2	5°35	9°27	9°35	23°43	21°43	M 3
T 4	23 28 1	20° 7'02	28°59	14°35	23°16	5° 1	25°40	13° 3	7°32	3° 3	5°37	9°23	9°32	23°50	21°40	T 4
W 5	23 31 57	21° 5'44	12 <sup>34</sup> 34	15°50	23°12	5°39	25°52	13°10	7°33	3° 4	5°39	9°15	9°29	23°57	21°38	W 5
T 6	23 35 54	22° 4'26	25°38	17° 3	23°D11	6°18	26° 5	13°17	7°35	3° 5	5°42	9° 5	9°26	24° 3	21°35	T 6
F 7	23 39 50	23° 3'11	8 <sup>40</sup> 40	18°15	23°11	6°56	26°17	13°24	7°36	3° 6	5°44	8°53	9°23	24°10	21°32	F 7
S 8	23 43 47	24° 1'58	21°30	19°25	23°14	7°34	26°29	13°31	7°38	3° 7	5°46	8°40	9°19	24°17	21°29	S 8
S 9	23 47 43	25° 0'46	4 <sup>19</sup> 19	20°33	23°20	8°12	26°42	13°38	7°39	3° 8	5°49	8°28	9°16	24°23	21°26	S 9
M10	23 51 40	25°59'37	16°27	21°39	23°27	8°50	26°54	13°45	7°41	3° 9	5°51	8°17	9°13	24°30	21°23	M10
T 11	23 55 36	26°58'30	28°37	22°43	23°37	9°28	27° 6	13°52	7°43	3°10	5°53	8° 8	9°10	24°37	21°21	T 11
W12	23 59 33	27°57'25	10 <sup>36</sup> 36	23°45	23°49	10° 7	27°18	13°59	7°44	3°11	5°56	8° 2	9° 7	24°43	21°18	W12
T 13	0 3 30	28°56'22	22°26	24°44	24° 3	10°45	27°30	14° 6	7°46	3°12	5°58	7°59	9° 3	24°50	21°15	T 13
F 14	0 7 26	29°55'21	4 <sup>11</sup> 11	25°41	24°19	11°23	27°42	14°13	7°48	3°14	6° 0	7°D58	9° 0	24°57	21°12	F 14
S 15	0 11 23	0 <sup>54</sup> 54'23	16° 1	26°34	24°37	12° 1	27°54	14°21	7°50	3°15	6° 3	7°58	8°57	25° 3	21°10	S 15
S 16	0 15 19	1°53'28	27°55	27°25	24°57	12°39	28° 6	14°28	7°52	3°16	6° 5	7°R58	8°54	25°10	21° 7	S 16
M17	0 19 16	2°52'34	10 <sup>56</sup> 56	28°11	25°19	13°17	28°18	14°35	7°54	3°17	6° 7	7°58	8°51	25°17	21° 4	M17
T 18	0 23 12	3°51'43	22°23	28°55	25°43	13°56	28°30	14°42	7°56	3°19	6°10	7°56	8°48	25°23	21° 1	T 18
W19	0 27 9	4°50'54	5 <sup>12</sup> 12	29°34	26° 9	14°34	28°42	14°49	7°58	3°20	6°12	7°53	8°44	25°30	20°59	W19
T 20	0 31 5	5°50'08	18°16	0 <sup>18</sup> 18	26°36	15°12	28°53	14°57	8° 0	3°22	6°14	7°46	8°41	25°36	20°56	T 20
F 21	0 35 2	6°49'23	1 <sup>11</sup> 11	0°38	27° 4	15°50	29° 5	15° 4	8° 2	3°23	6°17	7°38	8°38	25°43	20°53	F 21
S 22	0 38 59	7°48'41	15°55	1° 2	27°35	16°28	29°16	15°11	8° 5	3°24	6°19	7°28	8°35	25°50	20°51	S 22
S 23	0 42 55	8°48'01	0 <sup>20</sup> 20	1°21	28° 7	17° 7	29°28	15°18	8° 7	3°26	6°21	7°19	8°32	25°56	20°48	S 23
M24	0 46 52	9°47'24	15° 2	1°33	28°40	17°45	29°39	15°26	8° 9	3°27	6°24	7°10	8°29	26° 3	20°45	M24
T 25	0 50 48	10°46'48	29°54	1°R39	29°14	18°23	29°51	15°33	8°11	3°29	6°26	7° 3	8°25	26°10	20°43	T 25
W26	0 54 45	11°46'14	14 <sup>14</sup> 14	1°37	29°50	19° 1	0 <sup>11</sup> 11	15°40	8°14	3°30	6°28	6°59	8°22	26°16	20°40	W26
T 27	0 58 41	12°45'42	29°30	1°27	0 <sup>11</sup> 28	19°40	0°13	15°47	8°16	3°32	6°31	6°57	8°19	26°23	20°38	T 27
F 28	1 2 38	13°45'13	14 <sup>17</sup> 17	1°10	1° 6	20°18	0°24	15°55	8°19	3°34	6°33	6°D57	8°16	26°30	20°35	F 28
S 29	1 6 34	14°44'44	28°18	0°44	1°46	20°56	0°35	16° 2	8°21	3°35	6°35	6°58	8°13	26°36	20°33	S 29
S 30	1 10 31	15 <sup>44</sup> 44'18	12 <sup>36</sup> 36	0 <sup>11</sup> 11	2 <sup>11</sup> 27	21 <sup>11</sup> 34	0 <sup>11</sup> 46	16 <sup>46</sup> 46	8 <sup>24</sup> 24	3 <sup>37</sup> 37	6 <sup>43</sup> 43	6°R59	8 <sup>11</sup> 11	26 <sup>43</sup> 43	20 <sup>43</sup> 43	S 30

Delta T = 05m29s

Julian Calendar 1 Sept. 1481 == Greg. Calendar 10 Sept. 1481

OCTOBER 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	1 14 28	16 <sup>43</sup> 43'54	25 <sup>35</sup> 35	29°R26	3 <sup>11</sup> 9	22 <sup>11</sup> 12	0 <sup>11</sup> 57	16 <sup>46</sup> 16	8 <sup>26</sup> 26	3 <sup>39</sup> 39	6 <sup>40</sup> 40	6°R58	8 <sup>11</sup> 11	26 <sup>50</sup> 50	20°R28	M 1
T 2	1 18 24	17°43'31	9 <sup>30</sup> 30	28 <sup>35</sup> 35	3°52	22°51	1° 8	16°24	8°29	3°40	6°42	6 <sup>11</sup> 56	8° 3	26°56	20 <sup>46</sup> 46	T 2
W 3	1 22 21	18°43'09	22°29	27°36	4°36	23°29	1°19	16°31	8°32	3°42	6°45	6°52	8° 0	27° 3	20°23	W 3
T 4	1 26 17	19°42'50	5 <sup>24</sup> 24	26°31	5°21	24° 7	1°29	16°38	8°34	3°44	6°47	6°45	7°57	27°10	20°20	T 4
F 5	1 30 14	20°42'32	18° 6	25°20	6° 7	24°45	1°40	16°46	8°37	3°45	6°49	6°37	7°54	27°16	20°18	F 5
S 6	1 34 10	21°42'16	0 <sup>19</sup> 19	24° 6	6°54	25°24	1°50	16°53	8°40	3°47	6°52	6°29	7°50	27°23	20°16	S 6
S 7	1 38 7	22°42'02	12°55	22°51	7°42	26° 2	2° 1	17° 0	8°42	3°49	6°54	6°20	7°47	27°29	20°14	S 7
M 8	1 42 3	23°41'50	25° 5	21°36	8°30	26°40	2°11	17° 7	8°45	3°51	6°56	6°13	7°44	27°36	20°11	M 8
T 9	1 46 0	24°41'40	7 <sup>18</sup> 18	20°24	9°20	27°18	2°21	17°15	8°48	3°53	6°59	6° 8	7°41	27°43	20° 9	T 9
W10	1 49 56	25°41'32	18°58	19°17	10°10	27°57	2°31	17°22	8°51	3°54	7° 1	6° 4	7°38	27°49	20° 7	W10
T 11	1 53 53	26°41'27	0 <sup>11</sup> 11	18°18	11° 2	28°35	2°41	17°29	8°54	3°56	7° 3	6°D 2	7°34	27°56	20° 5	T 11
F 12	1 57 50	27°41'23	12°33	17°27	11°54	29°13	2°51	17°36	8°57	3°58	7° 5	6° 2	7°31	28° 3	20° 3	F 12
S 13	2 1 46	28°41'21	24°21	16°47	12°46	29°52	3° 1	17°43	9° 0	4° 0	7° 8	6° 4	7°28	28° 9	20° 1	S 13
S 14	2 5 43	29°41'22	6 <sup>14</sup> 14	16°18	13°40	0 <sup>30</sup> 30	3°11	17°51	9° 3	4° 2	7°10	6° 5	7°25	28°16	19°59	S 14
M15	2 9 39	0 <sup>11</sup> 41'25	18°18	16° 0	14°34	1° 8	3°21	17°58	9° 6	4° 4	7°12	6° 7	7°22	28°23	19°57	M15
T 16	2 13 36	1°41'30	0 <sup>12</sup> 12	15°D54	15°28	1°46	3°30	18° 5	9° 9	4° 6	7°14	6°R 8	7°19	28°29	19°55	T 16
W17	2 17 32	2°41'37	13°17	16° 0	16°24	2°25	3°40	18°12	9°12	4° 8	7°16	6° 7	7°15	28°36	19°53	W17
T 18	2 21 29	3°41'46	26°22	16°16	17°20	3° 3	3°49	18°19	9°15	4°10	7°19	6° 5	7°12	28°43	19°51	T 18
F 19	2 25 25	4°41'57	9 <sup>11</sup> 11	16°42	18°16	3°41	3°58	18°26	9°18	4°12	7°21	6° 2	7° 9	28°49	19°49	F 19
S 20	2 29 22	5°42'10	23°54	17°17	19°13	4°20	4° 7	18°33	9°22	4°14	7°23	5°57	7° 6	28°56	19°48	S 20
S 21	2 33 19	6°42'25	8 <sup>21</sup> 21	18° 1	20°11	4°58	4°16	18°41	9°25	4°16	7°25	5°53	7° 3	29° 3	19°46	S 21
M22	2 37 15	7°42'43	23°11	18°52	21° 9	5°36	4°25	18°48	9°28	4°18	7°27	5°49	7° 0	29° 9	19°44	M22
T 23	2 41 12	8°43'02	8 <sup>11</sup> 11	19°49	22° 8	6°15	4°34	18°55	9°31	4°20	7°29	5°46	6°56	29°16	19°43	T 23
W24	2 45 8	9°43'23	23°25	20°53	23° 7	6°53	4°42	19° 2	9°35	4°22	7°31	5°44	6°53	29°22	19°41	W24
T 25	2 49 5	10°43'45	8 <sup>17</sup> 17	22° 1	24° 6	7°31	4°51	19° 9	9°38	4°24	7°33	5°D43	6°50	29°29	19°40	T 25
F 26	2 53 1	11°44'09	23°24	23°14	25° 6	8°10	4°59	19°15	9°41	4°27	7°35	5°44	6°47	29°36	19°38	F 26
S 27	2 56 58	12°44'35	7 <sup>35</sup> 35	24°31	26° 7	8°48	5° 8	19°22	9°45	4°29	7°37	5°46	6°44	29°42	19°37	S 27
S 28	3 0 54	13°45'02	22° 9	25°50	27° 8	9°27	5°16	19°29	9°48	4°31	7°39	5°47	6°40	29°49	19°35	S 28
M29	3 4 51	14°45'31	5 <sup>35</sup> 35	27°12	28° 9	10° 5	5°24	19°36	9°51	4°33	7°41	5°48	6°37	29°56	19°34	M29
T 30	3 8 48	15°46'00	19°21	28°37	29°11	10°43	5°32	19°43	9°55	4°35	7°43	5°R48	6°34	0 <sup>11</sup> 11	19°33	T 30
W31	3 12 44	16 <sup>14</sup> 14'31	2 <sup>4</sup> 4	0 <sup>11</sup> 11	3° 13	11 <sup>42</sup> 22	5 <sup>11</sup> 39	19 <sup>45</sup> 50	9 <sup>58</sup> 58	4 <sup>37</sup> 37	7 <sup>45</sup> 45	5 <sup>11</sup> 47	6 <sup>11</sup> 31	0 <sup>11</sup> 11	19 <sup>43</sup> 43	W31

Delta T = 05m29s

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1481

## geocentric

NOVEMBER 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 16 41	17 <sup>11</sup> 47'03	15 <sup>11</sup> 9	1 <sup>11</sup> 31	1 <sup>11</sup> 16	12 <sup>11</sup> 0	5 <sup>11</sup> 47	19 <sup>11</sup> 56	10 <sup>11</sup> 2	4 <sup>11</sup> 39	7 <sup>11</sup> 47	5 <sup>11</sup> 46	6 <sup>11</sup> 28	0 <sup>11</sup> 16	19 <sup>11</sup> 30	T 1
F 2	3 20 37	18 <sup>11</sup> 47'37	27 <sup>11</sup> 38	3 <sup>11</sup> 1	2 <sup>11</sup> 18	12 <sup>11</sup> 38	5 <sup>11</sup> 54	20 <sup>11</sup> 3	10 <sup>11</sup> 5	4 <sup>11</sup> 42	7 <sup>11</sup> 49	5 <sup>11</sup> 43	6 <sup>11</sup> 25	0 <sup>11</sup> 22	19 <sup>11</sup> 29	F 2
S 3	3 24 34	19 <sup>11</sup> 48'12	9 <sup>11</sup> 53	4 <sup>11</sup> 31	3 <sup>11</sup> 22	13 <sup>11</sup> 17	6 <sup>11</sup> 2	20 <sup>11</sup> 10	10 <sup>11</sup> 9	4 <sup>11</sup> 44	7 <sup>11</sup> 51	5 <sup>11</sup> 41	6 <sup>11</sup> 21	0 <sup>11</sup> 29	19 <sup>11</sup> 28	S 3
S 4	3 28 30	20 <sup>11</sup> 48'48	21 <sup>11</sup> 59	6 <sup>11</sup> 2	4 <sup>11</sup> 25	13 <sup>11</sup> 55	6 <sup>11</sup> 9	20 <sup>11</sup> 16	10 <sup>11</sup> 12	4 <sup>11</sup> 46	7 <sup>11</sup> 53	5 <sup>11</sup> 38	6 <sup>11</sup> 18	0 <sup>11</sup> 36	19 <sup>11</sup> 27	S 4
M 5	3 32 27	21 <sup>11</sup> 49'25	3 <sup>11</sup> 57	7 <sup>11</sup> 34	5 <sup>11</sup> 29	14 <sup>11</sup> 33	6 <sup>11</sup> 16	20 <sup>11</sup> 23	10 <sup>11</sup> 16	4 <sup>11</sup> 48	7 <sup>11</sup> 55	5 <sup>11</sup> 36	6 <sup>11</sup> 15	0 <sup>11</sup> 42	19 <sup>11</sup> 26	M 5
T 6	3 36 23	22 <sup>11</sup> 50'04	15 <sup>11</sup> 50	9 <sup>11</sup> 6	6 <sup>11</sup> 33	15 <sup>11</sup> 12	6 <sup>11</sup> 23	20 <sup>11</sup> 30	10 <sup>11</sup> 19	4 <sup>11</sup> 50	7 <sup>11</sup> 57	5 <sup>11</sup> 35	6 <sup>11</sup> 12	0 <sup>11</sup> 49	19 <sup>11</sup> 25	T 6
W 7	3 40 20	23 <sup>11</sup> 50'44	27 <sup>11</sup> 39	10 <sup>11</sup> 39	7 <sup>11</sup> 38	15 <sup>11</sup> 50	6 <sup>11</sup> 30	20 <sup>11</sup> 36	10 <sup>11</sup> 23	4 <sup>11</sup> 53	7 <sup>11</sup> 58	5 <sup>11</sup> 34	6 <sup>11</sup> 9	0 <sup>11</sup> 56	19 <sup>11</sup> 25	W 7
T 8	3 44 17	24 <sup>11</sup> 51'26	9 <sup>11</sup> 26	12 <sup>11</sup> 12	8 <sup>11</sup> 43	16 <sup>11</sup> 29	6 <sup>11</sup> 36	20 <sup>11</sup> 43	10 <sup>11</sup> 26	4 <sup>11</sup> 55	8 <sup>11</sup> 0	5 <sup>11</sup> D34	6 <sup>11</sup> 6	1 <sup>11</sup> 2	19 <sup>11</sup> 24	T 8
F 9	3 48 13	25 <sup>11</sup> 52'09	21 <sup>11</sup> 15	13 <sup>11</sup> 45	9 <sup>11</sup> 48	17 <sup>11</sup> 7	6 <sup>11</sup> 43	20 <sup>11</sup> 49	10 <sup>11</sup> 30	4 <sup>11</sup> 57	8 <sup>11</sup> 2	5 <sup>11</sup> 34	6 <sup>11</sup> 2	1 <sup>11</sup> 9	19 <sup>11</sup> 23	F 9
S 10	3 52 10	26 <sup>11</sup> 52'54	3 <sup>11</sup> 5	15 <sup>11</sup> 19	10 <sup>11</sup> 53	17 <sup>11</sup> 45	6 <sup>11</sup> 49	20 <sup>11</sup> 55	10 <sup>11</sup> 33	4 <sup>11</sup> 59	8 <sup>11</sup> 4	5 <sup>11</sup> 35	5 <sup>11</sup> 59	1 <sup>11</sup> 15	19 <sup>11</sup> 22	S 10
S 11	3 56 6	27 <sup>11</sup> 53'40	15 <sup>11</sup> 4	16 <sup>11</sup> 53	11 <sup>11</sup> 59	18 <sup>11</sup> 24	6 <sup>11</sup> 55	21 <sup>11</sup> 2	10 <sup>11</sup> 37	5 <sup>11</sup> 2	8 <sup>11</sup> 5	5 <sup>11</sup> 36	5 <sup>11</sup> 56	1 <sup>11</sup> 22	19 <sup>11</sup> 22	S 11
M 12	4 0 3	28 <sup>11</sup> 54'27	27 <sup>11</sup> 11	18 <sup>11</sup> 27	13 <sup>11</sup> 5	19 <sup>11</sup> 2	7 <sup>11</sup> 1	21 <sup>11</sup> 8	10 <sup>11</sup> 40	5 <sup>11</sup> 4	8 <sup>11</sup> 7	5 <sup>11</sup> 37	5 <sup>11</sup> 53	1 <sup>11</sup> 29	19 <sup>11</sup> 21	M 12
T 13	4 3 59	29 <sup>11</sup> 55'16	9 <sup>11</sup> 31	20 <sup>11</sup> 0	14 <sup>11</sup> 11	19 <sup>11</sup> 41	7 <sup>11</sup> 7	21 <sup>11</sup> 14	10 <sup>11</sup> 44	5 <sup>11</sup> 6	8 <sup>11</sup> 9	5 <sup>11</sup> 37	5 <sup>11</sup> 50	1 <sup>11</sup> 35	19 <sup>11</sup> 21	T 13
W 14	4 7 56	0 <sup>11</sup> 56'07	22 <sup>11</sup> 9	21 <sup>11</sup> 34	15 <sup>11</sup> 18	20 <sup>11</sup> 19	7 <sup>11</sup> 13	21 <sup>11</sup> 20	10 <sup>11</sup> 48	5 <sup>11</sup> 8	8 <sup>11</sup> 10	5 <sup>11</sup> 38	5 <sup>11</sup> 46	1 <sup>11</sup> 42	19 <sup>11</sup> 20	W 14
T 15	4 11 52	1 <sup>11</sup> 56'58	5 <sup>11</sup> 7	23 <sup>11</sup> 8	16 <sup>11</sup> 25	20 <sup>11</sup> 58	7 <sup>11</sup> 18	21 <sup>11</sup> 26	10 <sup>11</sup> 51	5 <sup>11</sup> 11	8 <sup>11</sup> 12	5 <sup>11</sup> R38	5 <sup>11</sup> 43	1 <sup>11</sup> 49	19 <sup>11</sup> 20	T 15
F 16	4 15 49	2 <sup>11</sup> 57'52	18 <sup>11</sup> 29	24 <sup>11</sup> 42	17 <sup>11</sup> 32	21 <sup>11</sup> 36	7 <sup>11</sup> 24	21 <sup>11</sup> 33	10 <sup>11</sup> 55	5 <sup>11</sup> 13	8 <sup>11</sup> 14	5 <sup>11</sup> 38	5 <sup>11</sup> 40	1 <sup>11</sup> 55	19 <sup>11</sup> 20	F 16
S 17	4 19 46	3 <sup>11</sup> 58'46	2 <sup>11</sup> 17	26 <sup>11</sup> 16	18 <sup>11</sup> 39	22 <sup>11</sup> 15	7 <sup>11</sup> 29	21 <sup>11</sup> 39	10 <sup>11</sup> 59	5 <sup>11</sup> 15	8 <sup>11</sup> 15	5 <sup>11</sup> 38	5 <sup>11</sup> 37	2 <sup>11</sup> 2	19 <sup>11</sup> 19	S 17
S 18	4 23 42	4 <sup>11</sup> 59'42	16 <sup>11</sup> 32	27 <sup>11</sup> 50	19 <sup>11</sup> 47	22 <sup>11</sup> 53	7 <sup>11</sup> 34	21 <sup>11</sup> 45	11 <sup>11</sup> 2	5 <sup>11</sup> 17	8 <sup>11</sup> 17	5 <sup>11</sup> 37	5 <sup>11</sup> 34	2 <sup>11</sup> 9	19 <sup>11</sup> 19	S 18
M 19	4 27 39	6 <sup>11</sup> 0'40	1 <sup>11</sup> 11	29 <sup>11</sup> 24	20 <sup>11</sup> 54	23 <sup>11</sup> 31	7 <sup>11</sup> 39	21 <sup>11</sup> 50	11 <sup>11</sup> 6	5 <sup>11</sup> 20	8 <sup>11</sup> 18	5 <sup>11</sup> D37	5 <sup>11</sup> 31	2 <sup>11</sup> 15	19 <sup>11</sup> 19	M 19
T 20	4 31 35	7 <sup>11</sup> 1'38	16 <sup>11</sup> 10	0 <sup>11</sup> 58	22 <sup>11</sup> 2	24 <sup>11</sup> 10	7 <sup>11</sup> 44	21 <sup>11</sup> 56	11 <sup>11</sup> 10	5 <sup>11</sup> 22	8 <sup>11</sup> 20	5 <sup>11</sup> 37	5 <sup>11</sup> 27	2 <sup>11</sup> 22	19 <sup>11</sup> 19	T 20
W 21	4 35 32	8 <sup>11</sup> 2'38	1 <sup>11</sup> 21	2 <sup>11</sup> 32	23 <sup>11</sup> 10	24 <sup>11</sup> 48	7 <sup>11</sup> 48	22 <sup>11</sup> 2	11 <sup>11</sup> 13	5 <sup>11</sup> 24	8 <sup>11</sup> 21	5 <sup>11</sup> R38	5 <sup>11</sup> 24	2 <sup>11</sup> 29	19 <sup>11</sup> D19	W 21
T 22	4 39 28	9 <sup>11</sup> 3'39	16 <sup>11</sup> 34	4 <sup>11</sup> 6	24 <sup>11</sup> 19	25 <sup>11</sup> 27	7 <sup>11</sup> 53	22 <sup>11</sup> 8	11 <sup>11</sup> 17	5 <sup>11</sup> 27	8 <sup>11</sup> 22	5 <sup>11</sup> 38	5 <sup>11</sup> 21	2 <sup>11</sup> 35	19 <sup>11</sup> 19	T 22
F 23	4 43 25	10 <sup>11</sup> 4'40	1 <sup>11</sup> 34	5 <sup>11</sup> 40	25 <sup>11</sup> 27	26 <sup>11</sup> 5	7 <sup>11</sup> 57	22 <sup>11</sup> 14	11 <sup>11</sup> 21	5 <sup>11</sup> 29	8 <sup>11</sup> 24	5 <sup>11</sup> 37	5 <sup>11</sup> 18	2 <sup>11</sup> 42	19 <sup>11</sup> 19	F 23
S 24	4 47 22	11 <sup>11</sup> 5'43	16 <sup>11</sup> 31	7 <sup>11</sup> 14	26 <sup>11</sup> 36	26 <sup>11</sup> 44	8 <sup>11</sup> 1	22 <sup>11</sup> 19	11 <sup>11</sup> 24	5 <sup>11</sup> 31	8 <sup>11</sup> 25	5 <sup>11</sup> 37	5 <sup>11</sup> 15	2 <sup>11</sup> 49	19 <sup>11</sup> 19	S 24
S 25	4 51 18	12 <sup>11</sup> 6'46	0 <sup>11</sup> 59	8 <sup>11</sup> 48	27 <sup>11</sup> 44	27 <sup>11</sup> 22	8 <sup>11</sup> 5	22 <sup>11</sup> 25	11 <sup>11</sup> 28	5 <sup>11</sup> 33	8 <sup>11</sup> 26	5 <sup>11</sup> 36	5 <sup>11</sup> 12	2 <sup>11</sup> 55	19 <sup>11</sup> 19	S 25
M 26	4 55 15	13 <sup>11</sup> 7'50	15 <sup>11</sup> 0	10 <sup>11</sup> 22	28 <sup>11</sup> 53	28 <sup>11</sup> 1	8 <sup>11</sup> 9	22 <sup>11</sup> 30	11 <sup>11</sup> 32	5 <sup>11</sup> 36	8 <sup>11</sup> 28	5 <sup>11</sup> 35	5 <sup>11</sup> 8	3 <sup>11</sup> 2	19 <sup>11</sup> 19	M 26
T 27	4 59 11	14 <sup>11</sup> 8'54	28 <sup>11</sup> 34	11 <sup>11</sup> 57	0 <sup>11</sup> 3	28 <sup>11</sup> 39	8 <sup>11</sup> 12	22 <sup>11</sup> 36	11 <sup>11</sup> 35	5 <sup>11</sup> 38	8 <sup>11</sup> 29	5 <sup>11</sup> 35	5 <sup>11</sup> 5	3 <sup>11</sup> 8	19 <sup>11</sup> 20	T 27
W 28	5 3 8	15 <sup>11</sup> 9'58	11 <sup>11</sup> 41	13 <sup>11</sup> 31	1 <sup>11</sup> 12	29 <sup>11</sup> 18	8 <sup>11</sup> 16	22 <sup>11</sup> 41	11 <sup>11</sup> 39	5 <sup>11</sup> 40	8 <sup>11</sup> 30	5 <sup>11</sup> D34	5 <sup>11</sup> 2	3 <sup>11</sup> 15	19 <sup>11</sup> 20	W 28
T 29	5 7 4	16 <sup>11</sup> 11'03	24 <sup>11</sup> 25	15 <sup>11</sup> 5	2 <sup>11</sup> 21	29 <sup>11</sup> 56	8 <sup>11</sup> 19	22 <sup>11</sup> 46	11 <sup>11</sup> 42	5 <sup>11</sup> 42	8 <sup>11</sup> 31	5 <sup>11</sup> 34	4 <sup>11</sup> 59	3 <sup>11</sup> 22	19 <sup>11</sup> 20	T 29
F 30	5 11 1	17 <sup>11</sup> 12'08	6 <sup>11</sup> 50	16 <sup>11</sup> 40	3 <sup>11</sup> 31	0 <sup>11</sup> 35	8 <sup>11</sup> 22	22 <sup>11</sup> 52	11 <sup>11</sup> 46	5 <sup>11</sup> 45	8 <sup>11</sup> 33	5 <sup>11</sup> 35	4 <sup>11</sup> 56	3 <sup>11</sup> 28	19 <sup>11</sup> 21	F 30

Delta T = 05m29s

Julian Calendar 1 Nov. 1481 == Greg. Calendar 10 Nov. 1481

DECEMBER 1481 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 14 57	18 <sup>11</sup> 13'14	18 <sup>11</sup> 59	18 <sup>11</sup> 14	4 <sup>11</sup> 41	1 <sup>11</sup> 13	8 <sup>11</sup> 25	22 <sup>11</sup> 57	11 <sup>11</sup> 50	5 <sup>11</sup> 47	8 <sup>11</sup> 34	5 <sup>11</sup> 36	4 <sup>11</sup> 52	3 <sup>11</sup> 35	19 <sup>11</sup> 21	S 1
S 2	5 18 54	19°14'20	0 <sup>11</sup> 57	19°49	5°51	1°51	8°27	23° 2	11°53	5°49	8°35	5°37	4°49	3°42	19°22	S 2
M 3	5 22 51	20°15'26	12°48	21°24	7° 1	2°30	8°30	23° 7	11°57	5°51	8°36	5°39	4°46	3°48	19°23	M 3
T 4	5 26 47	21°16'33	24°35	22°59	8°11	3° 8	8°32	23°12	12° 1	5°53	8°37	5°40	4°43	3°55	19°23	T 4
W 5	5 30 44	22°17'40	6 <sup>11</sup> 23	24°35	9°21	3°47	8°34	23°17	12° 4	5°56	8°38	5°R40	4°40	4° 2	19°24	W 5
T 6	5 34 40	23°18'47	18°12	26°10	10°32	4°25	8°36	23°21	12° 8	5°58	8°39	5°39	4°37	4° 8	19°25	T 6
F 7	5 38 37	24°19'55	0 <sup>11</sup> 5	27°46	11°42	5° 4	8°38	23°26	12°12	6° 0	8°40	5°38	4°33	4°15	19°26	F 7
S 8	5 42 33	25°21'04	12° 6	29°22	12°53	5°42	8°39	23°31	12°15	6° 2	8°41	5°35	4°30	4°22	19°27	S 8
S 9	5 46 30	26°22'12	24°14	0 <sup>11</sup> 58	14° 4	6°21	8°40	23°35	12°19	6° 4	8°42	5°32	4°27	4°28	19°28	S 9
M10	5 50 26	27°23'21	6 <sup>11</sup> 32	2°35	15°15	6°59	8°42	23°40	12°22	6° 6	8°42	5°29	4°24	4°35	19°29	M10
T 11	5 54 23	28°24'31	19° 2	4°11	16°26	7°38	8°42	23°44	12°26	6° 9	8°43	5°25	4°21	4°41	19°30	T 11
W12	5 58 20	29°25'41	1 <sup>11</sup> 45	5°48	17°37	8°16	8°43	23°49	12°29	6°11	8°44	5°22	4°18	4°48	19°31	W12
T 13	6 2 16	0 <sup>11</sup> 26'51	14°44	7°26	18°48	8°55	8°44	23°53	12°33	6°13	8°45	5°20	4°14	4°55	19°32	T 13
F 14	6 6 13	1°28'02	28° 1	9° 3	20° 0	9°33	8°44	23°57	12°36	6°15	8°45	5°D19	4°11	5° 1	19°33	F 14
S 15	6 10 9	2°29'13	11 <sup>11</sup> 38	10°41	21°11	10°12	8°R44	24° 1	12°40	6°17	8°46	5°19	4° 8	5° 8	19°35	S 15
S 16	6 14 6	3°30'24	25°37	12°18	22°23	10°50	8°44	24° 5	12°43	6°19	8°47	5°20	4° 5	5°15	19°36	S 16
M17	6 18 2	4°31'36	9 <sup>11</sup> 56	13°56	23°34	11°29	8°44	24° 9	12°47	6°21	8°47	5°22	4° 2	5°21	19°38	M17
T 18	6 21 59	5°32'48	24°35	15°34	24°46	12° 7	8°44	24°13	12°50	6°23	8°48	5°23	3°58	5°28	19°39	T 18
W19	6 25 55	6°34'01	9 <sup>11</sup> 29	17°12	25°58	12°46	8°43	24°17	12°54	6°25	8°48	5°R23	3°55	5°35	19°41	W19
T 20	6 29 52	7°35'13	24°30	18°51	27°10	13°24	8°42	24°20	12°57	6°27	8°49	5°22	3°52	5°41	19°42	T 20
F 21	6 33 49	8°36'26	9 <sup>11</sup> 32	20°29	28°22	14° 3	8°41	24°24	13° 1	6°29	8°49	5°19	3°49	5°48	19°44	F 21
S 22	6 37 45	9°37'38	24°24	22° 6	29°34	14°41	8°40	24°27	13° 4	6°31	8°50	5°14	3°46	5°55	19°45	S 22
S 23	6 41 42	10°38'50	8 <sup>11</sup> 59	23°44	0 <sup>11</sup> 46	15°20	8°39	24°31	13° 7	6°33	8°50	5° 9	3°43	6° 1	19°47	S 23
M24	6 45 38	11°40'01	23° 9	25°21	1°58	15°58	8°37	24°34	13°11	6°35	8°50	5° 3	3°39	6° 8	19°49	M24
T 25	6 49 35	12°41'12	6 <sup>11</sup> 53	26°58	3°10	16°36	8°35	24°37	13°14	6°37	8°51	4°58	3°36	6°15	19°51	T 25
W26	6 53 31	13°42'22	20° 8	28°33	4°23	17°15	8°33	24°40	13°17	6°39	8°51	4°53	3°33	6°21	19°53	W26
T 27	6 57 28	14°43'32	2 <sup>11</sup> 57	0 <sup>11</sup> 8	5°35	17°53	8°31	24°43	13°21	6°41	8°51	4°51	3°30	6°28	19°55	T 27
F 28	7 1 25	15°44'41	15°24	1°41	6°48	18°32	8°29	24°46	13°24	6°43	8°51	4°D50	3°27	6°34	19°57	F 28
S 29	7 5 21	16°45'49	27°33	3°13	8° 0	19°10	8°26	24°49	13°27	6°45	8°51	4°51	3°24	6°41	19°59	S 29
S 30	7 9 18	17°46'57	9 <sup>11</sup> 29	4°43	9°13	19°49	8°23	24°52	13°30	6°46	8°52	4°52	3°20	6°48	20° 1	S 30
M31	7 13 14	18 <sup>11</sup> 48'03	21 <sup>11</sup> 8'18	6 <sup>11</sup> 10	10 <sup>11</sup> 25	20 <sup>11</sup> 27	8 <sup>11</sup> 20	24 <sup>11</sup> 54	13 <sup>11</sup> 23	6 <sup>11</sup> 48	8 <sup>11</sup> 52	4 <sup>11</sup> 54	3 <sup>11</sup> 17	6 <sup>11</sup> 54	20 <sup>11</sup> 3	M31