



Astrodienst Ephemeris Tables for the year 1471

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 1471
geocentric

JANUARY 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 15 53	19°39'43	3°13	26°39	27°20	27°11	4°20	20°R12	25°40	13°28	12°R47	6°39	6°1	9°19	3°19	T 1
W 2	7 19 50	20°30'49	15°49	27°11	28°35	27°56	4°21	20°R11	25°41	13°29	12°R46	6°40	5°58	9°26	3°23	W 2
T 3	7 23 46	21°31'53	28°47	27°49	29°50	28°41	4°23	20°10	25°42	13°30	12°45	6°41	5°54	9°32	3°28	T 3
F 4	7 27 43	22°32'57	12°10	28°32	1°5	29°26	4°24	20° 9	25°43	13°31	12°44	6°43	5°51	9°39	3°33	F 4
S 5	7 31 40	23°34'00	25°59	29°19	2°20	0°11	4°25	20° 8	25°44	13°33	12°43	6°43	5°48	9°46	3°37	S 5
S 6	7 35 36	24°35'03	10°12	0°10	3°35	0°55	4°26	20° 7	25°45	13°34	12°42	6°R44	5°45	9°53	3°42	S 6
M 7	7 39 33	25°36'04	24°46	1° 4	4°50	1°40	4°27	20° 7	25°45	13°35	12°41	6°43	5°42	9°59	3°47	M 7
T 8	7 43 29	26°37'04	9°35	2° 2	6° 5	2°26	4°27	20° 6	25°46	13°36	12°40	6°41	5°39	10° 6	3°51	T 8
W 9	7 47 26	27°38'04	24°31	3° 3	7°19	3°11	4°28	20° 6	25°47	13°36	12°39	6°39	5°35	10°13	3°56	W 9
T 10	7 51 22	28°39'03	9°26	4° 7	8°34	3°56	4°R28	20° 5	25°48	13°37	12°38	6°36	5°32	10°19	4° 1	T 10
F 11	7 55 19	29°40'01	24°11	5°13	9°49	4°41	4°28	20° 5	25°48	13°38	12°37	6°33	5°29	10°26	4° 6	F 11
S 12	7 59 16	0°40'58	8°41	6°21	11° 4	5°26	4°27	20°D 5	25°49	13°39	12°36	6°30	5°26	10°33	4°10	S 12
S 13	8 3 12	1°41'55	22°51	7°32	12°19	6°11	4°27	20° 5	25°49	13°40	12°35	6°29	5°23	10°40	4°15	S 13
M14	8 7 9	2°42'51	6°41	8°44	13°34	6°56	4°26	20° 5	25°50	13°41	12°34	6°D29	5°19	10°46	4°20	M14
T 15	8 11 5	3°43'46	20° 9	9°58	14°49	7°42	4°26	20° 5	25°50	13°41	12°33	6°29	5°16	10°53	4°25	T 15
W16	8 15 2	4°44'41	3°19	11°13	16° 4	8°27	4°25	20° 6	25°50	13°42	12°32	6°31	5°13	11° 0	4°29	W16
T 17	8 18 58	5°45'35	16°12	12°30	17°19	9°12	4°23	20° 6	25°51	13°43	12°31	6°33	5°10	11° 6	4°34	T 17
F 18	8 22 55	6°46'28	28°51	13°49	18°34	9°58	4°22	20° 7	25°51	13°43	12°29	6°34	5° 7	11°13	4°39	F 18
S 19	8 26 51	7°47'20	11°18	15° 9	19°49	10°43	4°20	20° 8	25°51	13°44	12°28	6°R34	5° 4	11°20	4°44	S 19
S 20	8 30 48	8°48'10	23°34	16°30	21° 4	11°29	4°19	20° 8	25°51	13°45	12°27	6°33	5° 0	11°27	4°49	S 20
M21	8 34 45	9°49'00	5°43	17°52	22°19	12°14	4°17	20° 9	25°R51	13°45	12°26	6°29	4°57	11°33	4°53	M21
T 22	8 38 41	10°49'48	17°45	19°15	23°34	13° 0	4°14	20°10	25°51	13°46	12°24	6°25	4°54	11°40	4°58	T 22
W23	8 42 38	11°50'35	29°41	20°39	24°49	13°45	4°12	20°12	25°51	13°46	12°23	6°18	4°51	11°47	5° 3	W23
T 24	8 46 34	12°51'21	11°34	22° 5	26° 4	14°31	4°10	20°13	25°51	13°46	12°22	6°11	4°48	11°53	5° 7	T 24
F 25	8 50 31	13°52'05	23°25	23°31	27°19	15°16	4° 7	20°14	25°51	13°47	12°20	6° 4	4°45	12° 0	5°12	F 25
S 26	8 54 27	14°52'47	5°16	24°59	28°34	16° 2	4° 4	20°16	25°50	13°47	12°19	5°57	4°41	12° 7	5°17	S 26
S 27	8 58 24	15°53'28	17°12	26°27	29°49	16°48	4° 1	20°17	25°50	13°48	12°18	5°52	4°38	12°14	5°22	S 27
M28	9 2 20	16°54'07	29°14	27°56	1°4	17°33	3°58	20°19	25°50	13°48	12°16	5°48	4°35	12°20	5°26	M28
T 29	9 6 17	17°54'45	11°28	29°27	2°19	18°19	3°54	20°21	25°49	13°48	12°15	5°46	4°32	12°27	5°31	T 29
W30	9 10 14	18°55'21	23°58	0°58	3°34	19° 5	3°51	20°23	25°49	13°48	12°13	5°D46	4°29	12°34	5°36	W30
T 31	9 14 10	19°55'55	6°49	2°30	4°49	19°51	3°47	20°R25	25°48	13°48	12°12	5°R47	4°25	12°40	5°40	T 31

Delta T = 05m50s

Julian Calendar 1 Jan. 1471 == Greg. Calendar 10 Jan. 1471

FEBRUARY 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 18 7	20°56'27	20°11 5	4°3	6°4	20°36	3°R43	20°R27	25°R48	13°49	12°R10	5°R49	4°R22	12°R47	5°45	F 1
S 2	9 22 3	21°56'57	3°48	5°37	7°19	21°22	3°R39	20°29	25°47	13°49	12°R 9	5°R49	4°19	12°54	5°49	S 2
S 3	9 26 0	22°57'26	18° 0	7°12	8°33	22° 8	3°35	20°32	25°47	13°49	12° 8	5°49	4°16	13° 1	5°54	S 3
M 4	9 29 56	23°57'53	2°39	8°48	9°48	22°54	3°30	20°34	25°46	13°49	12° 6	5°46	4°13	13° 7	5°59	M 4
T 5	9 33 53	24°58'18	17°40	10°24	11° 3	23°40	3°25	20°37	25°45	13°R49	12° 5	5°41	4°10	13°14	6° 3	T 5
W 6	9 37 49	25°58'41	2°54	12° 2	12°18	24°26	3°21	20°39	25°44	13°49	12° 3	5°34	4° 6	13°21	6° 8	W 6
T 7	9 41 46	26°59'02	18°10	13°41	13°33	25°12	3°16	20°42	25°43	13°49	12° 2	5°26	4° 3	13°27	6°12	T 7
F 8	9 45 43	27°59'22	3°19	15°20	14°48	25°58	3°11	20°45	25°42	13°49	12° 0	5°18	4° 0	13°34	6°17	F 8
S 9	9 49 39	28°59'40	18° 9	17° 1	16° 3	26°44	3° 5	20°48	25°42	13°49	11°58	5°11	3°57	13°41	6°21	S 9
S 10	9 53 36	29°59'57	2°36	18°42	17°17	27°30	3° 0	20°51	25°40	13°49	11°57	5° 6	3°54	13°48	6°26	S 10
M11	9 57 32	1°0'13	16°35	20°25	18°32	28°16	2°55	20°54	25°39	13°48	11°55	5° 3	3°51	13°54	6°30	M11
T 12	10 1 29	2° 0'27	0°16	22° 8	19°47	29° 2	2°49	20°57	25°38	13°48	11°54	5°D 2	3°47	14° 1	6°34	T 12
W13	10 5 25	3° 0'39	13°12	23°53	21° 2	29°48	2°43	21° 1	25°37	13°48	11°52	5° 2	3°44	14° 8	6°39	W13
T 14	10 9 22	4° 0'50	25°57	25°39	22°17	0°34	2°37	21° 4	25°36	13°48	11°51	5° 3	3°41	14°14	6°43	T 14
F 15	10 13 18	5° 1'00	8°24	27°25	23°32	1°20	2°31	21° 8	25°35	13°47	11°49	5°R 3	3°38	14°21	6°48	F 15
S 16	10 17 15	6° 1'08	20°39	29°13	24°46	2° 6	2°25	21°12	25°33	13°47	11°47	5° 2	3°35	14°28	6°52	S 16
S 17	10 21 12	7° 1'14	2°43	1°18	26° 1	2°52	2°19	21°15	25°32	13°47	11°46	4°58	3°31	14°35	6°56	S 17
M18	10 25 8	8° 1'18	14°41	2°52	27°16	3°39	2°12	21°19	25°31	13°46	11°44	4°52	3°28	14°41	7° 0	M18
T 19	10 29 5	9° 1'20	26°36	4°43	28°31	4°25	2° 6	21°23	25°29	13°46	11°43	4°42	3°25	14°48	7° 5	T 19
W20	10 33 1	10° 1'21	8°28	6°35	29°46	5°11	1°59	21°27	25°28	13°45	11°41	4°31	3°22	14°55	7° 9	W20
T 21	10 36 58	11° 1'20	20°19	8°28	1°0	5°57	1°52	21°31	25°26	13°45	11°39	4°18	3°19	15° 1	7°13	T 21
F 22	10 40 54	12° 1'16	2°12	10°22	2°15	6°44	1°45	21°36	25°24	13°44	11°38	4° 5	3°16	15° 8	7°17	F 22
S 23	10 44 51	13° 1'11	14° 6	12°18	3°30	7°30	1°39	21°40	25°23	13°44	11°36	3°52	3°12	15°15	7°21	S 23
S 24	10 48 47	14° 1'03	26° 5	14°14	4°44	8°16	1°32	21°44	25°21	13°43	11°35	3°41	3° 9	15°22	7°25	S 24
M25	10 52 44	15° 0'54	8°10	16°11	5°59	9° 2	1°24	21°49	25°19	13°42	11°33	3°33	3° 6	15°28	7°29	M25
T 26	10 56 40	16° 0'42	20°25	18° 9	7°14	9°49	1°17	21°53	25°18	13°42	11°31	3°28	3° 3	15°35	7°33	T 26
W27	11 0 37	17° 0'28	2°14	20° 7	8°29	10°35	1°10	21°58	25°16	13°41	11°30	3°25	3° 0	15°42	7°37	W27
T 28	11 4 34	18° 0'12	15°40	22°18	9°43	11°21	1° 3	22° 3	25°14	13°40	11°28	3°D24	2°56	15°48	7°41	T 28

Delta T = 05m50s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1471

geocentric

MARCH 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 8 30	18°59'53	28°47	24°6	10°58	12°8	0°R55	22°8	25°R12	13°R40	11°R27	3°R24	2°53	15°55	7°45	F 1
S 2	11 12 27	19°59'32	12°20	26°6	12°12	12°54	0°48	22°13	25°10	13°39	11°25	3°24	2°50	16°2	7°49	S 2
S 3	11 16 23	20°59'09	26°21	28°6	13°27	13°40	0°40	22°18	25°8	13°38	11°24	3°22	2°47	16°9	7°52	S 3
M 4	11 20 20	21°58'44	10°25	0°5	14°42	14°27	0°33	22°23	25°6	13°37	11°22	3°18	2°44	16°15	7°56	M 4
T 5	11 24 16	22°58'16	25°45	2°5	15°56	15°13	0°25	22°28	25°4	13°36	11°20	3°12	2°41	16°22	8°0	T 5
W 6	11 28 13	23°57'46	10°58	4°3	17°11	15°59	0°17	22°33	25°2	13°35	11°19	3°2	2°37	16°29	8°3	W 6
T 7	11 32 9	24°57'13	26°19	6°1	18°25	16°46	0°10	22°38	25°0	13°35	11°17	2°51	2°34	16°35	8°7	T 7
F 8	11 36 6	25°56'39	11°36	7°57	19°40	17°32	0°2	22°44	24°58	13°34	11°16	2°40	2°31	16°42	8°11	F 8
S 9	11 40 3	26°56'03	26°40	9°51	20°55	18°19	29°54	22°49	24°56	13°33	11°14	2°30	2°28	16°49	8°14	S 9
S 10	11 43 59	27°55'25	11°19	11°43	22°9	19°5	29°47	22°55	24°54	13°32	11°13	2°22	2°25	16°56	8°18	S 10
M 11	11 47 56	28°54'45	25°30	13°32	23°24	19°51	29°39	23°0	24°52	13°31	11°11	2°16	2°22	17°2	8°21	M 11
T 12	11 51 52	29°54'03	9°10	15°18	24°38	20°38	29°31	23°6	24°50	13°30	11°10	2°13	2°18	17°9	8°24	T 12
W 13	11 55 49	0°53'20	22°22	17°0	25°53	21°24	29°23	23°12	24°47	13°28	11°8	2°13	2°15	17°16	8°28	W 13
T 14	11 59 45	1°52'35	5°9	18°39	27°7	22°11	29°16	23°18	24°45	13°27	11°7	2°12	2°12	17°22	8°31	T 14
F 15	12 3 42	2°51'48	17°35	20°13	28°21	22°57	29°8	23°23	24°43	13°26	11°5	2°12	2°9	17°29	8°34	F 15
S 16	12 7 38	3°50'59	29°45	21°43	29°36	23°43	29°0	23°29	24°40	13°25	11°4	2°10	2°6	17°36	8°37	S 16
S 17	12 11 35	4°50'08	11°45	23°8	0°50	24°30	28°53	23°35	24°38	13°24	11°2	2°6	2°2	17°43	8°41	S 17
M 18	12 15 32	5°49'15	23°39	24°27	2°5	25°16	28°45	23°42	24°36	13°23	11°1	1°59	1°59	17°49	8°44	M 18
T 19	12 19 28	6°48'21	5°29	25°41	3°19	26°3	28°37	23°48	24°33	13°22	10°59	1°49	1°56	17°56	8°47	T 19
W 20	12 23 25	7°47'24	17°20	26°49	4°34	26°49	28°30	23°54	24°31	13°20	10°58	1°36	1°53	18°3	8°50	W 20
T 21	12 27 21	8°46'26	29°12	27°51	5°48	27°36	28°22	24°0	24°29	13°19	10°57	1°23	1°50	18°9	8°53	T 21
F 22	12 31 18	9°45'25	11°9	28°47	7°2	28°22	28°15	24°6	24°26	13°18	10°55	1°8	1°47	18°16	8°56	F 22
S 23	12 35 14	10°44'23	23°10	29°37	8°17	29°8	28°7	24°13	24°24	13°16	10°54	0°54	1°43	18°23	8°58	S 23
S 24	12 39 11	11°43'18	5°17	0°20	9°31	29°55	28°0	24°19	24°21	13°15	10°53	0°43	1°40	18°30	9°1	S 24
M 25	12 43 7	12°42'12	17°31	0°57	10°45	0°41	27°53	24°26	24°19	13°14	10°51	0°33	1°37	18°36	9°4	M 25
T 26	12 47 4	13°41'03	29°54	1°27	12°0	1°28	27°45	24°32	24°16	13°12	10°50	0°27	1°34	18°43	9°7	T 26
W 27	12 51 0	14°39'52	12°29	1°51	13°14	2°14	27°38	24°39	24°14	13°11	10°49	0°24	1°31	18°50	9°9	W 27
T 28	12 54 57	15°38'39	25°19	2°8	14°28	3°0	27°31	24°45	24°11	13°10	10°47	0°D23	1°28	18°57	9°12	T 28
F 29	12 58 54	16°37'23	8°25	2°19	15°43	3°47	27°24	24°52	24°9	13°8	10°46	0°23	1°24	19°3	9°14	F 29
S 30	13 2 50	17°36'05	21°53	2°R23	16°57	4°33	27°17	24°59	24°6	13°7	10°45	0°R23	1°21	19°10	9°17	S 30
S 31	13 6 47	18°34'45	5°24	2°21	18°11	5°19	27°10	25°6	24°4	13°5	10°44	0°22	1°18	19°17	9°19	S 31

Delta T = 05m50s

Julian Calendar 1 March 1471 == Greg. Calendar 10 March 1471

APRIL 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 10 43	19°33'23	20°0	2°R14	19°25	6°6	27°R 4	25°13	24°R 1	13°R 4	10°R43	0°R18	1°15	19°23	9°21	M 1
T 2	13 14 40	20°31'58	4°38	2°0	20°39	6°52	26°57	25°19	23°59	13°3	10°41	0°13	1°12	19°30	9°24	T 2
W 3	13 18 36	21°30'31	19°34	1°41	21°54	7°38	26°50	25°26	23°56	13°1	10°40	0°5	1°8	19°37	9°26	W 3
T 4	13 22 33	22°29'02	4°41	1°18	23°8	8°24	26°44	25°33	23°53	13°0	10°39	29°55	1°5	19°44	9°28	T 4
F 5	13 26 29	23°27'31	19°49	0°50	24°22	9°11	26°38	25°40	23°51	12°58	10°38	29°45	1°2	19°50	9°30	F 5
S 6	13 30 26	24°25'58	4°47	0°18	25°36	9°57	26°32	25°47	23°48	12°57	10°37	29°36	0°59	19°57	9°32	S 6
S 7	13 34 23	25°24'23	19°27	29°43	26°50	10°43	26°25	25°55	23°46	12°55	10°36	29°29	0°56	20°4	9°34	S 7
M 8	13 38 19	26°22'47	3°42	29°6	28°4	11°29	26°20	26°2	23°43	12°54	10°35	29°24	0°53	20°10	9°36	M 8
T 9	13 42 16	27°21'09	17°28	28°27	29°18	12°16	26°14	26°9	23°41	12°52	10°34	29°21	0°49	20°17	9°38	T 9
W 10	13 46 12	28°19'29	0°36	27°47	0°32	13°2	26°8	26°16	23°38	12°50	10°33	29°D21	0°46	20°24	9°39	W 10
T 11	13 50 9	29°17'48	13°39	27°7	1°46	13°48	26°3	26°23	23°36	12°49	10°32	29°21	0°43	20°31	9°41	T 11
F 12	13 54 5	0°16'05	26°9	26°27	3°1	14°34	25°57	26°31	23°33	12°47	10°31	29°R22	0°40	20°37	9°43	F 12
S 13	13 58 2	1°14'20	8°22	25°48	4°15	15°20	25°52	26°38	23°31	12°46	10°30	29°22	0°37	20°44	9°44	S 13
S 14	14 1 58	2°12'34	20°23	25°11	5°29	16°6	25°47	26°45	23°28	12°44	10°29	29°20	0°33	20°51	9°46	S 14
M 15	14 5 55	3°10'47	2°16	24°37	6°43	16°52	25°42	26°53	23°25	12°43	10°29	29°16	0°30	20°58	9°47	M 15
T 16	14 9 52	4°8'57	14°7	24°5	7°57	17°38	25°37	27°0	23°23	12°41	10°28	29°10	0°27	21°4	9°49	T 16
W 17	14 13 48	5°7'07	25°59	23°37	9°11	18°24	25°32	27°8	23°20	12°39	10°27	29°1	0°24	21°11	9°50	W 17
T 18	14 17 45	6°5'14	7°54	23°13	10°25	19°10	25°28	27°15	23°18	12°38	10°26	28°52	0°21	21°18	9°51	T 18
F 19	14 21 41	7°3'20	19°56	22°52	11°38	19°56	25°24	27°23	23°16	12°36	10°25	28°42	0°18	21°24	9°53	F 19
S 20	14 25 38	8°1'25	2°6	22°36	12°52	20°42	25°19	27°30	23°13	12°34	10°25	28°32	0°14	21°31	9°54	S 20
S 21	14 29 34	8°59'28	14°24	22°25	14°6	21°28	25°15	27°38	23°11	12°33	10°24	28°24	0°11	21°38	9°55	S 21
M 22	14 33 31	9°57'29	26°53	22°18	15°20	22°14	25°12	27°45	23°8	12°31	10°23	28°18	0°8	21°45	9°56	M 22
T 23	14 37 27	10°55'29	9°32	22°D16	16°34	23°0	25°8	27°53	23°6	12°30	10°23	28°14	0°5	21°51	9°57	T 23
W 24	14 41 24	11°53'27	22°22	22°18	17°48	23°46	25°4	28°0	23°3	12°28	10°22	28°D12	0°2	21°58	9°58	W 24
T 25	14 45 21	12°51'23	5°25	22°25	19°2	24°32	25°1	28°8	23°1	12°26	10°22	28°13	29°59	22°5	9°58	T 25
F 26	14 49 17	13°49'18	18°42	22°37	20°16	25°17	24°58	28°16	22°59	12°25	10°21	28°14	29°55	22°11	9°59	F 26
S 27	14 53 14	14°47'10	2°15	22°54	21°30	26°3	24°55	28°23	22°56	12°23	10°21	28°15	29°52	22°18	10°0	S 27
S 28	14 57 10	15°45'01	16°4	23°14	22°43	26°49	24°52	28°31	22°54	12°21	10°20	28°R15	29°49	22°25	10°0	S 28
M 29	15 1 7	16°42'50	0°11	23°39	23°57	27°35	24°49	28°39	22°52	12°20	10°20	28°15	29°46	22°32	10°1	M 29
T 30	15 5 3	17°40'37	14°34	24°9	25°11	28°20	24°47	28°47	22°50	12°18	10°19	28°12	29°43	22°38	10°1	T 30

Delta T = 05m50s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1471

geocentric

MAY 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 9 0	18°38'22	29°9'9	24°42'4	26°8'25	29°16'6	24°R45	28°8'54	22°R47	12°R17	10°R19	28°R 8	29°R39	22°R45	10°R 2	W 1
T 2	15 12 56	19°36'06	13°A52	25°19	27°39	29°51	24°M43	29° 2	22°A45	12°M15	10°M19	28°R 3	29°36	22°52	10° 2	T 2
F 3	15 16 53	20°33'48	28°37	26° 0	28°52	0°Y37	24°41	29°10	22°43	12°13	10°18	27°57	29°33	22°59	10° 2	F 3
S 4	15 20 50	21°31'29	13°M15	26°45	0°II 6	1°22	24°39	29°18	22°41	12°12	10°18	27°52	29°30	23° 5	10° 2	S 4
S 5	15 24 46	22°29'08	27°39	27°34	1°20	2° 8	24°37	29°25	22°39	12°10	10°18	27°48	29°27	23°12	10° 3	S 5
M 6	15 28 43	23°26'46	11°A44	28°26	2°33	2°53	24°36	29°33	22°37	12° 9	10°17	27°45	29°24	23°19	10°R 3	M 6
T 7	15 32 39	24°24'23	25°26	29°21	3°47	3°38	24°35	29°41	22°35	12° 7	10°17	27°D44	29°20	23°25	10° 3	T 7
W 8	15 36 36	25°21'59	8°B44	0°B19	5° 1	4°24	24°34	29°49	22°33	12° 5	10°17	27°45	29°17	23°32	10° 3	W 8
T 9	15 40 32	26°19'34	21°39	1°21	6°15	5° 9	24°33	29°57	22°31	12° 4	10°17	27°46	29°14	23°39	10° 2	T 9
F 10	15 44 29	27°17'08	4°A13	2°26	7°28	5°54	24°32	0°II 4	22°29	12° 2	10°17	27°48	29°11	23°46	10° 2	F 10
S 11	15 48 25	28°14'41	16°29	3°34	8°42	6°39	24°32	0°12	22°27	12° 1	10°17	27°49	29° 8	23°52	10° 2	S 11
S 12	15 52 22	29°12'13	28°33	4°45	9°55	7°24	24°31	0°20	22°25	11°59	10°17	27°R50	29° 5	23°59	10° 2	S 12
M13	15 56 19	0°II 944	10°H29	5°59	11° 9	8° 9	24°D31	0°28	22°23	11°58	10°D17	27°49	29° 1	24° 6	10° 1	M13
T 14	16 0 15	1° 7'14	22°21	7°15	12°23	8°55	24°31	0°36	22°21	11°56	10°17	27°48	28°58	24°12	10° 1	T 14
W15	16 4 12	2° 4'43	4°Y15	8°35	13°36	9°40	24°31	0°44	22°19	11°55	10°17	27°45	28°55	24°19	10° 0	W15
T 16	16 8 8	3° 2'12	16°14	9°57	14°50	10°24	24°32	0°51	22°18	11°53	10°17	27°41	28°52	24°26	10° 0	T 16
F 17	16 12 5	3°59'39	28°21	11°22	16° 3	11° 9	24°32	0°59	22°16	11°52	10°17	27°37	28°49	24°33	9°59	F 17
S 18	16 16 1	4°57'06	10°B39	12°49	17°17	11°54	24°33	1° 7	22°14	11°50	10°17	27°34	28°45	24°39	9°58	S 18
S 19	16 19 58	5°54'32	23°10	14°19	18°31	12°39	24°34	1°15	22°13	11°49	10°17	27°31	28°42	24°46	9°57	S 19
M20	16 23 54	6°51'58	5°II54	15°52	19°44	13°24	24°35	1°23	22°11	11°47	10°18	27°28	28°39	24°53	9°57	M20
T 21	16 27 51	7°49'22	18°53	17°28	20°58	14° 8	24°37	1°31	22°10	11°46	10°18	27°27	28°36	25° 0	9°56	T 21
W22	16 31 48	8°46'46	2°B 5	19° 6	22°11	14°53	24°38	1°38	22° 8	11°44	10°18	27°D27	28°33	25° 6	9°55	W22
T 23	16 35 44	9°44'08	15°30	20°47	23°25	15°38	24°40	1°46	22° 7	11°43	10°18	27°28	28°30	25°13	9°54	T 23
F 24	16 39 41	10°41'30	29° 8	22°30	24°38	16°22	24°42	1°54	22° 5	11°42	10°19	27°29	28°26	25°20	9°53	F 24
S 25	16 43 37	11°38'50	12°A57	24°16	25°52	17° 6	24°44	2° 2	22° 4	11°40	10°19	27°30	28°23	25°26	9°51	S 25
S 26	16 47 34	12°36'10	26°56	26° 4	27° 5	17°51	24°46	2° 9	22° 3	11°39	10°19	27°31	28°20	25°33	9°50	S 26
M27	16 51 30	13°33'28	11°M 4	27°55	28°19	18°35	24°48	2°17	22° 1	11°38	10°20	27°R31	28°17	25°40	9°49	M27
T 28	16 55 27	14°30'46	25°19	29°49	29°32	19°19	24°51	2°25	22° 0	11°36	10°20	27°31	28°14	25°47	9°47	T 28
W29	16 59 23	15°28'02	9°A38	1°II44	0°B46	20° 4	24°53	2°33	21°59	11°35	10°21	27°30	28°11	25°53	9°46	W29
T 30	17 3 20	16°25'18	23°58	3°43	1°59	20°48	24°56	2°40	21°58	11°34	10°21	27°29	28° 7	26° 0	9°45	T 30
F 31	17 7 17	17°II22'32	8°M15	5°II43	3°B12	21°Y32	24°M59	2°II48	21°A57	11°M32	10°M22	27°R28	28°R 4	26°R 7	9°A43	F 31

Delta T = 05m50s

Julian Calendar 1 May 1471 == Greg. Calendar 10 May 1471

JUNE 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 11 13	18°II19'46	22°M25	7°II45	4°B26	22°Y16	25°M 3	2°II56	21°R56	11°R31	10°M22	27°R27	28°R 1	26°R14	9°R41	S 1
S 2	17 15 10	19°17'00	6°A24	9°49	5°39	23° 0	25° 6	3° 3	21°A55	11°M30	10°23	27°R26	27°58	26°20	9°A40	S 2
M 3	17 19 6	20°14'13	20° 9	11°55	6°53	23°44	25° 9	3°11	21°54	11°29	10°24	27°26	27°55	26°27	9°38	M 3
T 4	17 23 3	21°11'25	3°B36	14° 3	8° 6	24°27	25°13	3°18	21°53	11°28	10°24	27°D26	27°51	26°34	9°36	T 4
W 5	17 26 59	22° 8'37	16°45	16°12	9°19	25°11	25°17	3°26	21°52	11°26	10°25	27°26	27°48	26°40	9°35	W 5
T 6	17 30 56	23° 5'49	29°34	18°22	10°33	25°55	25°21	3°34	21°51	11°25	10°26	27°27	27°45	26°47	9°33	T 6
F 7	17 34 53	24° 3'01	12°A 7	20°32	11°46	26°38	25°25	3°41	21°50	11°24	10°27	27°27	27°42	26°54	9°31	F 7
S 8	17 38 49	25° 0'12	24°24	22°43	12°59	27°22	25°30	3°49	21°50	11°23	10°27	27°27	27°39	27° 1	9°29	S 8
S 9	17 42 46	25°57'23	6°H29	24°55	14°12	28° 5	25°34	3°56	21°49	11°22	10°28	27°27	27°36	27° 7	9°27	S 9
M10	17 46 42	26°54'34	18°26	27° 6	15°26	28°49	25°39	4° 4	21°48	11°21	10°29	27°27	27°32	27°14	9°25	M10
T 11	17 50 39	27°51'46	0°Y20	29°17	16°39	29°32	25°44	4°11	21°48	11°20	10°30	27°27	27°29	27°21	9°23	T 11
W12	17 54 35	28°48'57	12°14	18°27	17°52	0°B15	25°48	4°18	21°47	11°19	10°31	27°28	27°26	27°27	9°20	W12
T 13	17 58 32	29°46'08	24°15	3°36	19° 5	0°59	25°54	4°26	21°47	11°18	10°32	27°28	27°23	27°34	9°18	T 13
F 14	18 2 28	0°B43'20	6°B25	5°45	20°19	1°42	25°59	4°33	21°46	11°17	10°33	27°28	27°20	27°41	9°16	F 14
S 15	18 6 25	1°40'31	18°48	7°52	21°32	2°25	26° 4	4°40	21°46	11°16	10°34	27°28	27°17	27°48	9°14	S 15
S 16	18 10 22	2°37'43	1°II28	9°58	22°45	3° 8	26°10	4°48	21°46	11°15	10°35	27°29	27°13	27°54	9°11	S 16
M17	18 14 18	3°34'55	14°26	12° 2	23°58	3°51	26°16	4°55	21°45	11°15	10°36	27°29	27°10	28° 1	9° 9	M17
T 18	18 18 15	4°32'07	27°43	14° 5	25°11	4°33	26°21	5° 2	21°45	11°14	10°37	27°R29	27° 7	28° 8	9° 6	T 18
W19	18 22 11	5°29'20	11°B18	16° 6	26°25	5°16	26°27	5° 9	21°45	11°13	10°38	27°29	27° 4	28°15	9° 4	W19
T 20	18 26 8	6°26'32	25° 9	18° 5	27°38	5°59	26°34	5°16	21°45	11°12	10°39	27°29	27° 1	28°21	9° 1	T 20
F 21	18 30 4	7°23'44	9°A14	20° 2	28°51	6°41	26°40	5°23	21°D45	11°11	10°40	27°28	26°57	28°28	8°59	F 21
S 22	18 34 1	8°20'56	23°28	21°58	0°A 4	7°24	26°46	5°30	21°45	11°11	10°41	27°26	26°54	28°35	8°56	S 22
S 23	18 37 57	9°18'08	7°M47	23°51	1°17	8° 6	26°53	5°37	21°45	11°10	10°43	27°25	26°51	28°41	8°53	S 23
M24	18 41 54	10°15'20	22° 6	25°43	2°30	8°48	26°59	5°44	21°45	11° 9	10°44	27°24	26°48	28°48	8°51	M24
T 25	18 45 51	11°12'31	6°A24	27°33	3°43	9°30	27° 6	5°51	21°45	11° 9	10°45	27°D24	26°45	28°55	8°48	T 25
W26	18 49 47	12° 9'43	20°36	29°20	4°56	10°13	27°13	5°58	21°45	11° 8	10°46	27°24	26°42	29° 2	8°45	W26
T 27	18 53 44	13° 6'55	4°M40	1°A 6	6° 9	10°55	27°20	6° 5	21°46	11° 8	10°48	27°24	26°38	29° 8	8°42	T 27
F 28	18 57 40	14° 4'07	18°34	2°50	7°22	11°36	27°28	6°12	21°46	11° 7	10°49	27°25	26°35	29°15	8°39	F 28
S 29	19 1 37	15° 1'19	2°A18	4°32	8°35	12°18	27°35	6°18	21°46	11° 7	10°51	27°27	26°32	29°22	8°37	S 29
S 30	19 5 33	15°B58'31	15°A51	6°A12	9°A48	13°B 0	27°M42	6°II25	21°A47	11°M 6	10°M52	27°R28	26°R29	29°R29	8°A34	S 30

Delta T = 05m50s

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1471
geocentric

JULY 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 9 30	16°55'43	29°10	7°50	11°1	13°42	27°50	6°32	21°47	11°R 6	10°53	27°R28	26°26	29°35	8°R31	M 1
T 2	19 13 26	17°52'56	12°316	9°27	12°14	14°23	27°58	6°38	21°48	11°M 5	10°55	27°27	26°23	29°42	8°28	T 2
W 3	19 17 23	18°50'09	25° 8	11° 1	13°27	15° 5	28° 5	6°45	21°48	11° 5	10°56	27°26	26°19	29°49	8°25	W 3
T 4	19 21 20	19°47'23	7°47	12°33	14°40	15°46	28°13	6°51	21°49	11° 4	10°58	27°23	26°16	29°55	8°22	T 4
F 5	19 25 16	20°44'37	20°12	14° 4	15°53	16°27	28°21	6°58	21°50	11° 4	10°59	27°20	26°13	0°Y 2	8°19	F 5
S 6	19 29 13	21°41'52	2°25	15°32	17° 6	17° 8	28°30	7° 4	21°50	11° 4	11° 1	27°16	26°10	0° 9	8°16	S 6
S 7	19 33 9	22°39'08	14°28	16°58	18°19	17°49	28°38	7°10	21°51	11° 4	11° 2	27°12	26° 7	0°16	8°13	S 7
M 8	19 37 6	23°36'25	26°25	18°23	19°31	18°30	28°46	7°17	21°52	11° 3	11° 4	27° 9	26° 3	0°22	8° 9	M 8
T 9	19 41 2	24°33'42	8°Y18	19°45	20°44	19°11	28°55	7°23	21°53	11° 3	11° 5	27° 6	26° 0	0°29	8° 6	T 9
W10	19 44 59	25°31'00	20°12	21° 5	21°57	19°52	29° 4	7°29	21°54	11° 3	11° 7	27°D 5	25°57	0°36	8° 3	W10
T 11	19 48 55	26°28'20	2°B11	22°24	23°10	20°33	29°12	7°35	21°55	11° 3	11° 9	27° 5	25°54	0°42	8° 0	T 11
F 12	19 52 52	27°25'40	14°20	23°40	24°22	21°13	29°21	7°41	21°56	11° 3	11°10	27° 6	25°51	0°49	7°57	F 12
S 13	19 56 49	28°23'02	26°44	24°54	25°35	21°54	29°30	7°47	21°57	11° 3	11°12	27° 8	25°48	0°56	7°54	S 13
S 14	20 0 45	29°20'25	9°II27	26° 5	26°48	22°34	29°39	7°53	21°58	11° 3	11°14	27° 9	25°44	1° 3	7°51	S 14
M15	20 4 42	0°17'48	22°32	27°14	28° 0	23°14	29°48	7°59	21°59	11°D 3	11°16	27°R10	25°41	1° 9	7°47	M15
T 16	20 8 38	1°15'13	6°0	28°21	29°13	23°54	29°58	8° 4	22° 1	11° 3	11°17	27°10	25°38	1°16	7°44	T 16
W17	20 12 35	2°12'39	19°53	29°25	0°26	24°34	0°2	8°10	22° 2	11° 3	11°19	27° 8	25°35	1°23	7°41	W17
T 18	20 16 31	3°10'06	4°1	0°27	1°38	25°14	0°16	8°16	22° 3	11° 3	11°21	27° 5	25°32	1°30	7°38	T 18
F 19	20 20 28	4° 7'34	18°38	1°26	2°51	25°54	0°26	8°21	22° 5	11° 3	11°23	27° 0	25°29	1°36	7°34	F 19
S 20	20 24 24	5° 5'03	3°20	2°21	4° 3	26°34	0°36	8°27	22° 6	11° 3	11°24	26°54	25°25	1°43	7°31	S 20
S 21	20 28 21	6° 2'32	18° 4	3°14	5°16	27°13	0°45	8°32	22° 8	11° 3	11°26	26°49	25°22	1°50	7°28	S 21
M22	20 32 18	7° 0'03	2°44	4° 4	6°28	27°52	0°55	8°38	22° 9	11° 3	11°28	26°44	25°19	1°56	7°25	M22
T 23	20 36 14	7°57'34	17°14	4°51	7°41	28°32	1° 5	8°43	22°11	11° 4	11°30	26°41	25°16	2° 3	7°21	T 23
W24	20 40 11	8°55'06	1°129	5°34	8°53	29°11	1°15	8°48	22°12	11° 4	11°32	26°39	25°13	2°10	7°18	W24
T 25	20 44 7	9°52'39	15°28	6°13	10° 6	29°50	1°25	8°53	22°14	11° 4	11°34	26°D39	25° 9	2°17	7°15	T 25
F 26	20 48 4	10°50'13	29° 9	6°49	11°18	0°II29	1°36	8°58	22°16	11° 5	11°36	26°40	25° 6	2°23	7°12	F 26
S 27	20 52 0	11°47'47	12°235	7°20	12°30	1° 7	1°46	9° 3	22°18	11° 5	11°38	26°41	25° 3	2°30	7° 8	S 27
S 28	20 55 57	12°45'23	25°45	7°47	13°43	1°46	1°56	9° 8	22°19	11° 5	11°40	26°R42	25° 0	2°37	7° 5	S 28
M29	20 59 53	13°43'00	8°343	8°10	14°55	2°25	2° 7	9°13	22°21	11° 6	11°41	26°41	24°57	2°44	7° 2	M29
T 30	21 3 50	14°40'38	21°28	8°28	16° 7	3° 3	2°17	9°17	22°23	11° 6	11°43	26°38	24°54	2°50	6°59	T 30
W31	21 7 47	15°38'17	4°2	8°241	17°19	3°II41	2°28	9°II22	22°25	11°M 7	11°45	26°234	24°250	2°Y57	6°56	W31

Delta T = 05m49s Julian Calendar 1 July 1471 == Greg. Calendar 10 July 1471

AUGUST 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 11 43	16°35'57	16°26	8°49	18°32	4°II19	2°439	9°II27	22°27	11°M 7	11°47	26°R26	24°247	3°Y 4	6°R52	T 1
F 2	21 15 40	17°33'39	28°41	8°R51	19°44	4°57	2°49	9°31	22°29	11° 8	11°49	26°18	24°44	3°10	6°449	F 2
S 3	21 19 36	18°31'22	10°47	8°48	20°56	5°35	3° 0	9°36	22°31	11° 9	11°51	26° 8	24°41	3°17	6°46	S 3
S 4	21 23 33	19°29'06	22°47	8°40	22° 8	6°13	3°11	9°40	22°34	11° 9	11°54	25°58	24°38	3°24	6°43	S 4
M 5	21 27 29	20°26'52	4°Y41	8°25	23°20	6°50	3°22	9°44	22°36	11°10	11°56	25°49	24°34	3°31	6°40	M 5
T 6	21 31 26	21°24'40	16°32	8° 5	24°32	7°28	3°33	9°48	22°38	11°11	11°58	25°42	24°31	3°37	6°37	T 6
W 7	21 35 22	22°22'29	28°24	7°39	25°44	8° 5	3°44	9°52	22°40	11°11	12° 0	25°37	24°28	3°44	6°34	W 7
T 8	21 39 19	23°20'21	10°B21	7° 7	26°56	8°42	3°56	9°56	22°42	11°12	12° 2	25°34	24°25	3°51	6°31	T 8
F 9	21 43 16	24°18'14	22°27	6°30	28° 8	9°19	4° 7	10° 0	22°45	11°13	12° 4	25°D33	24°22	3°57	6°27	F 9
S 10	21 47 12	25°16'08	4°II48	5°48	29°19	9°56	4°18	10° 4	22°47	11°14	12° 6	25°33	24°19	4° 4	6°24	S 10
S 11	21 51 9	26°14'05	17°28	5° 2	0°31	10°32	4°30	10° 8	22°50	11°15	12° 8	25°34	24°15	4°11	6°21	S 11
M12	21 55 5	27°12'04	0°32	4°11	1°43	11° 9	4°41	10°11	22°52	11°15	12°10	25°R34	24°12	4°18	6°19	M12
T 13	21 59 2	28°10'04	14° 3	3°18	2°55	11°45	4°53	10°15	22°55	11°16	12°12	25°33	24° 9	4°24	6°16	T 13
W14	22 2 58	29° 8'07	28° 3	2°22	4° 6	12°21	5° 4	10°18	22°57	11°17	12°14	25°29	24° 6	4°31	6°13	W14
T 15	22 6 55	0°26'11	12°29	1°26	5°18	12°57	5°16	10°21	23° 0	11°18	12°16	25°23	24° 3	4°38	6°10	T 15
F 16	22 10 51	1° 4'16	27°18	0°29	6°30	13°33	5°28	10°25	23° 2	11°19	12°19	25°14	24° 0	4°45	6° 7	F 16
S 17	22 14 48	2° 2'24	12°21	29°34	7°41	14° 8	5°39	10°28	23° 5	11°20	12°21	25° 5	23°56	4°51	6° 4	S 17
S 18	22 18 45	3° 0'33	27°29	28°42	8°53	14°44	5°51	10°31	23° 8	11°21	12°23	24°55	23°53	4°58	6° 1	S 18
M19	22 22 41	3°58'44	12°31	27°53	10° 4	15°19	6° 3	10°34	23°11	11°22	12°25	24°46	23°50	5° 5	5°59	M19
T 20	22 26 38	4°56'56	27°19	27° 9	11°16	15°54	6°15	10°37	23°13	11°24	12°27	24°39	23°47	5°11	5°56	T 20
W21	22 30 34	5°55'10	11°M46	26°31	12°27	16°29	6°27	10°39	23°16	11°25	12°29	24°35	23°44	5°18	5°53	W21
T 22	22 34 31	6°53'25	25°49	26° 0	13°39	17° 4	6°39	10°42	23°19	11°26	12°32	24°33	23°40	5°25	5°51	T 22
F 23	22 38 27	7°51'42	9°29	25°37	14°50	17°38	6°51	10°44	23°22	11°27	12°34	24°D32	23°37	5°32	5°48	F 23
S 24	22 42 24	8°50'01	22°47	25°22	16° 1	18°12	7° 3	10°47	23°25	11°28	12°36	24°R32	23°34	5°38	5°46	S 24
S 25	22 46 20	9°48'21	5°345	25°D16	17°12	18°46	7°15	10°49	23°28	11°30	12°38	24°32	23°31	5°45	5°43	S 25
M26	22 50 17	10°46'42	18°28	25°19	18°24	19°20	7°28	10°51	23°31	11°31	12°40	24°30	23°28	5°52	5°41	M26
T 27	22 54 14	11°45'05	0°57	25°31	19°35	19°54	7°40	10°53	23°34	11°32	12°42	24°25	23°25	5°58	5°38	T 27
W28	22 58 10	12°43'30	13°17	25°53	20°46	20°28	7°52	10°55	23°37	11°34	12°45	24°18	23°21	6° 5	5°36	W28
T 29	23 2 7	13°41'57	25°28	26°23	21°57	21° 1	8° 5	10°57	23°40	11°35	12°47	24° 7	23°18	6°12	5°34	T 29
F 30	23 6 3	14°40'25	7°32	27° 2	23° 8	21°34	8°17	10°59	23°43	11°36	12°49	23°55	23°15	6°19	5°31	F 30
S 31	23 10 0	15°38'55	19°31	27°49	24°19	22°II 7	8°430	11°II 1	23°46	11°M38	12°51	23°241	23°212	6°Y25	5°29	S 31

Delta T = 05m49s Julian Calendar

ASTRODIENST EPHEMERIS for the year 1471

geocentric

SEPTEMBER 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 13 56	16 ^h 37'28"	1 ^h 26'	28 ^h 45'	25 ^h 29'	22 ^h 39'	8 ^h 42'	11 ^h 2'	23 ^h 49'	11 ^h 39'	12 ^h 53'	23 ^h 27'	23 ^h 9'	6 ^h 32'	5 ^h 27'	S 1
M 2	23 17 53	17 ^h 36'02"	13 ^h 18'	29 ^h 48'	26 ^h 40'	23 ^h 12'	8 ^h 55'	11 ^h 4'	23 ^h 52'	11 ^h 41'	12 ^h 55'	23 ^h 14'	23 ^h 6'	6 ^h 39'	5 ^h 25'	M 2
T 3	23 21 49	18 ^h 34'38"	25 ^h 9'	0 ^h 57'	27 ^h 51'	23 ^h 44'	9 ^h 7'	11 ^h 5'	23 ^h 56'	11 ^h 42'	12 ^h 58'	23 ^h 3'	23 ^h 2'	6 ^h 45'	5 ^h 23'	T 3
W 4	23 25 46	19 ^h 33'17"	7 ^h 2'	2 ^h 13'	29 ^h 1'	24 ^h 16'	9 ^h 20'	11 ^h 7'	23 ^h 59'	11 ^h 44'	13 ^h 0'	22 ^h 54'	22 ^h 59'	6 ^h 52'	5 ^h 21'	W 4
T 5	23 29 42	20 ^h 31'57"	18 ^h 59'	3 ^h 35'	0 ^h 12'	24 ^h 48'	9 ^h 32'	11 ^h 8'	24 ^h 2'	11 ^h 45'	13 ^h 2'	22 ^h 49'	22 ^h 56'	6 ^h 59'	5 ^h 19'	T 5
F 6	23 33 39	21 ^h 30'40"	1 ^h 11'	5 ^h 1'	1 ^h 23'	25 ^h 19'	9 ^h 45'	11 ^h 9'	24 ^h 6'	11 ^h 47'	13 ^h 4'	22 ^h 46'	22 ^h 53'	7 ^h 6'	5 ^h 17'	F 6
S 7	23 37 36	22 ^h 29'25"	13 ^h 22'	6 ^h 32'	2 ^h 33'	25 ^h 50'	9 ^h 58'	11 ^h 10'	24 ^h 9'	11 ^h 48'	13 ^h 6'	22 ^h 45'	22 ^h 50'	7 ^h 12'	5 ^h 15'	S 7
S 8	23 41 32	23 ^h 28'13"	25 ^h 58'	8 ^h 7'	3 ^h 43'	26 ^h 21'	10 ^h 10'	11 ^h 11'	24 ^h 12'	11 ^h 50'	13 ^h 8'	22 ^h 45'	22 ^h 46'	7 ^h 19'	5 ^h 13'	S 8
M 9	23 45 29	24 ^h 27'03"	8 ^h 56'	9 ^h 44'	4 ^h 54'	26 ^h 52'	10 ^h 23'	11 ^h 11'	24 ^h 16'	11 ^h 52'	13 ^h 11'	22 ^h 44'	22 ^h 43'	7 ^h 26'	5 ^h 12'	M 9
T 10	23 49 25	25 ^h 25'55"	22 ^h 22'	11 ^h 25'	6 ^h 4'	27 ^h 22'	10 ^h 36'	11 ^h 12'	24 ^h 19'	11 ^h 53'	13 ^h 13'	22 ^h 43'	22 ^h 40'	7 ^h 33'	5 ^h 10'	T 10
W 11	23 53 22	26 ^h 24'49"	6 ^h 16'	13 ^h 7'	7 ^h 14'	27 ^h 53'	10 ^h 49'	11 ^h 12'	24 ^h 22'	11 ^h 55'	13 ^h 15'	22 ^h 39'	22 ^h 37'	7 ^h 39'	5 ^h 8'	W 11
T 12	23 57 18	27 ^h 23'46"	20 ^h 41'	14 ^h 51'	8 ^h 24'	28 ^h 23'	11 ^h 1'	11 ^h 13'	24 ^h 26'	11 ^h 57'	13 ^h 17'	22 ^h 32'	22 ^h 34'	7 ^h 46'	5 ^h 7'	T 12
F 13	0 1 15	28 ^h 22'45"	5 ^h 13'	16 ^h 37'	9 ^h 34'	28 ^h 52'	11 ^h 14'	11 ^h 13'	24 ^h 29'	11 ^h 58'	13 ^h 19'	22 ^h 23'	22 ^h 31'	7 ^h 53'	5 ^h 5'	F 13
S 14	0 5 11	29 ^h 21'46"	20 ^h 42'	18 ^h 24'	10 ^h 44'	29 ^h 22'	11 ^h 27'	11 ^h 13'	24 ^h 33'	12 ^h 0'	13 ^h 21'	22 ^h 12'	22 ^h 27'	7 ^h 59'	5 ^h 4'	S 14
S 15	0 9 8	0 ^h 20'49"	6 ^h 2'	20 ^h 11'	11 ^h 54'	29 ^h 51'	11 ^h 40'	11 ^h 13'	24 ^h 36'	12 ^h 2'	13 ^h 23'	22 ^h 1'	22 ^h 24'	8 ^h 6'	5 ^h 2'	S 15
M 16	0 13 5	1 ^h 19'54"	21 ^h 19'	21 ^h 58'	13 ^h 4'	0 ^h 519'	11 ^h 53'	11 ^h 13'	24 ^h 40'	12 ^h 4'	13 ^h 25'	21 ^h 50'	22 ^h 21'	8 ^h 13'	5 ^h 1'	M 16
T 17	0 17 1	2 ^h 19'01"	6 ^h 12'	23 ^h 46'	14 ^h 14'	0 ^h 48'	12 ^h 6'	11 ^h 13'	24 ^h 43'	12 ^h 6'	13 ^h 28'	21 ^h 42'	22 ^h 18'	8 ^h 20'	5 ^h 0'	T 17
W 18	0 20 58	3 ^h 18'10"	21 ^h 4'	25 ^h 34'	15 ^h 24'	1 ^h 16'	12 ^h 19'	11 ^h 13'	24 ^h 47'	12 ^h 7'	13 ^h 30'	21 ^h 37'	22 ^h 15'	8 ^h 26'	4 ^h 59'	W 18
T 19	0 24 54	4 ^h 17'21"	5 ^h 19'	27 ^h 21'	16 ^h 33'	1 ^h 44'	12 ^h 32'	11 ^h 12'	24 ^h 50'	12 ^h 9'	13 ^h 32'	21 ^h 34'	22 ^h 11'	8 ^h 33'	4 ^h 58'	T 19
F 20	0 28 51	5 ^h 16'34"	19 ^h 6'	29 ^h 9'	17 ^h 43'	2 ^h 11'	12 ^h 45'	11 ^h 12'	24 ^h 54'	12 ^h 11'	13 ^h 34'	21 ^h 33'	22 ^h 8'	8 ^h 40'	4 ^h 57'	F 20
S 21	0 32 47	6 ^h 15'48"	2 ^h 26'	0 ^h 56'	18 ^h 52'	2 ^h 38'	12 ^h 58'	11 ^h 11'	24 ^h 58'	12 ^h 13'	13 ^h 36'	21 ^h 33'	22 ^h 5'	8 ^h 46'	4 ^h 56'	S 21
S 22	0 36 44	7 ^h 15'04"	15 ^h 23'	2 ^h 42'	20 ^h 2'	3 ^h 5'	13 ^h 11'	11 ^h 10'	25 ^h 1'	12 ^h 15'	13 ^h 38'	21 ^h 33'	22 ^h 2'	8 ^h 53'	4 ^h 55'	S 22
M 23	0 40 40	8 ^h 14'22"	28 ^h 0'	4 ^h 28'	21 ^h 11'	3 ^h 32'	13 ^h 24'	11 ^h 10'	25 ^h 5'	12 ^h 17'	13 ^h 40'	21 ^h 31'	21 ^h 59'	9 ^h 0'	4 ^h 54'	M 23
T 24	0 44 37	9 ^h 13'42"	10 ^h 22'	6 ^h 13'	22 ^h 20'	3 ^h 58'	13 ^h 37'	11 ^h 9'	25 ^h 9'	12 ^h 19'	13 ^h 42'	21 ^h 27'	21 ^h 56'	9 ^h 7'	4 ^h 53'	T 24
W 25	0 48 34	10 ^h 13'04"	22 ^h 32'	7 ^h 58'	23 ^h 29'	4 ^h 24'	13 ^h 50'	11 ^h 7'	25 ^h 12'	12 ^h 21'	13 ^h 44'	21 ^h 21'	21 ^h 52'	9 ^h 13'	4 ^h 52'	W 25
T 26	0 52 30	11 ^h 12'27"	4 ^h 35'	9 ^h 42'	24 ^h 38'	4 ^h 49'	14 ^h 3'	11 ^h 6'	25 ^h 16'	12 ^h 23'	13 ^h 46'	21 ^h 11'	21 ^h 49'	9 ^h 20'	4 ^h 52'	T 26
F 27	0 56 27	12 ^h 11'53"	16 ^h 32'	11 ^h 26'	25 ^h 47'	5 ^h 14'	14 ^h 16'	11 ^h 5'	25 ^h 20'	12 ^h 25'	13 ^h 48'	21 ^h 0'	21 ^h 46'	9 ^h 27'	4 ^h 51'	F 27
S 28	1 0 23	13 ^h 11'20"	28 ^h 26'	13 ^h 8'	26 ^h 56'	5 ^h 39'	14 ^h 29'	11 ^h 4'	25 ^h 23'	12 ^h 27'	13 ^h 50'	20 ^h 47'	21 ^h 43'	9 ^h 33'	4 ^h 50'	S 28
S 29	1 4 20	14 ^h 10'49"	10 ^h 18'	14 ^h 50'	28 ^h 4'	6 ^h 4'	14 ^h 42'	11 ^h 2'	25 ^h 27'	12 ^h 29'	13 ^h 52'	20 ^h 34'	21 ^h 40'	9 ^h 40'	4 ^h 50'	S 29
M 30	1 8 16	15 ^h 10'20"	22 ^h 11'	16 ^h 32'	29 ^h 13'	6 ^h 28'	14 ^h 55'	11 ^h 11'	25 ^h 31'	12 ^h 31'	13 ^h 54'	20 ^h 32'	21 ^h 37'	9 ^h 47'	4 ^h 49'	M 30

Delta T = 05m49s

Julian Calendar 1 Sept. 1471 == Greg. Calendar 10 Sept. 1471

OCTOBER 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 12 13	16 ^h 9'54	4 ^h 8'	18 ^h 13	0 ^h 21	6 ^h 51	15 ^h 8	10 ^h R59	25 ^h 34	12 ^h 33	13 ^h 56	20 ^h R12	21 ^h 33	9 ^h 54	4 ^h R49	T 1
W 2	1 16 9	17 ^h 9'29	16 ^h 1'	19 ^h 53	1 ^h 30	7 ^h 14	15 ^h 21	10 ^h II57	25 ^h 38	12 ^h 35	13 ^h 57	20 ^h 4	21 ^h 30	10 ^h 0	4 ^h 49	W 2
T 3	1 20 6	18 ^h 9'07	28 ^h 3'	21 ^h 32	2 ^h 38	7 ^h 37	15 ^h 34	10 ^h 55	25 ^h 42	12 ^h 37	13 ^h 59	19 ^h 59	21 ^h 27	10 ^h 7	4 ^h 49	T 3
F 4	1 24 3	19 ^h 8'47	10 ^h II13	23 ^h 11	3 ^h 46	8 ^h 0	15 ^h 47	10 ^h 53	25 ^h 46	12 ^h 39	14 ^h 1	19 ^h 56	21 ^h 24	10 ^h 14	4 ^h 49	F 4
S 5	1 27 59	20 ^h 8'29	22 ^h 34	24 ^h 49	4 ^h 54	8 ^h 21	16 ^h 0	10 ^h 51	25 ^h 49	12 ^h 41	14 ^h 3	19 ^h D56	21 ^h 21	10 ^h 20	4 ^h 48	S 5
S 6	1 31 56	21 ^h 8'14	5 ^h 510	26 ^h 26	6 ^h 2	8 ^h 43	16 ^h 13	10 ^h 49	25 ^h 53	12 ^h 43	14 ^h 5	19 ^h 57	21 ^h 17	10 ^h 27	4 ^h D48	S 6
M 7	1 35 52	22 ^h 8'01	18 ^h 5'	28 ^h 3'	7 ^h 9	9 ^h 4	16 ^h 26	10 ^h 46	25 ^h 57	12 ^h 46	14 ^h 7	19 ^h R57	21 ^h 14	10 ^h 34	4 ^h 49	M 7
T 8	1 39 49	23 ^h 7'50	1 ^h 24	29 ^h 40	8 ^h 17	9 ^h 25	16 ^h 39	10 ^h 44	26 ^h 1	12 ^h 48	14 ^h 9	19 ^h 57	21 ^h 11	10 ^h 41	4 ^h 49	T 8
W 9	1 43 45	24 ^h 7'41	15 ^h 9'	1 ^h 16	9 ^h 24	9 ^h 45	16 ^h 52	10 ^h 41	26 ^h 4	12 ^h 50	14 ^h 10	19 ^h 55	21 ^h 8	10 ^h 47	4 ^h 49	W 9
T 10	1 47 42	25 ^h 7'34	29 ^h 22	2 ^h 51	10 ^h 31	10 ^h 4	17 ^h 5	10 ^h 39	26 ^h 8	12 ^h 52	14 ^h 12	19 ^h 51	21 ^h 5	10 ^h 54	4 ^h 49	T 10
F 11	1 51 38	26 ^h 7'30	14 ^h 10	4 ^h 26	11 ^h 38	10 ^h 24	17 ^h 18	10 ^h 36	26 ^h 12	12 ^h 54	14 ^h 14	19 ^h 44	21 ^h 2	11 ^h 1	4 ^h 49	F 11
S 12	1 55 35	27 ^h 7'28	29 ^h 0'	6 ^h 0	12 ^h 45	10 ^h 42	17 ^h 31	10 ^h 33	26 ^h 16	12 ^h 56	14 ^h 16	19 ^h 37	20 ^h 58	11 ^h 7	4 ^h 50	S 12
S 13	1 59 32	28 ^h 7'28	14 ^h 13	7 ^h 34	13 ^h 52	11 ^h 0	17 ^h 44	10 ^h 30	26 ^h 19	12 ^h 58	14 ^h 17	19 ^h 28	20 ^h 55	11 ^h 14	4 ^h 50	S 13
M 14	2 3 28	29 ^h 7'30	29 ^h 28	9 ^h 7	14 ^h 59	11 ^h 18	17 ^h 57	10 ^h 27	26 ^h 23	13 ^h 1	14 ^h 19	19 ^h 21	20 ^h 52	11 ^h 21	4 ^h 51	M 14
T 15	2 7 25	0 ^h 17	14 ^h 13	10 ^h 40	16 ^h 5	11 ^h 35	18 ^h 10	10 ^h 24	26 ^h 27	13 ^h 3	14 ^h 21	19 ^h 15	20 ^h 49	11 ^h 28	4 ^h 51	T 15
W 16	2 11 21	1 ^h 7'40	29 ^h 25	12 ^h 12	17 ^h 11	11 ^h 52	18 ^h 23	10 ^h 21	26 ^h 31	13 ^h 5	14 ^h 22	19 ^h 11	20 ^h 46	11 ^h 34	4 ^h 52	W 16
T 17	2 15 18	2 ^h 7'47	13 ^h 49	13 ^h 44	18 ^h 18	12 ^h 7	18 ^h 36	10 ^h 18	26 ^h 35	13 ^h 7	14 ^h 24	19 ^h D 9	20 ^h 43	11 ^h 41	4 ^h 53	T 17
F 18	2 19 14	3 ^h 7'57	27 ^h 46	15 ^h 16	19 ^h 23	12 ^h 23	18 ^h 49	10 ^h 15	26 ^h 38	13 ^h 10	14 ^h 25	19 ^h 10	20 ^h 39	11 ^h 48	4 ^h 54	F 18
S 19	2 23 11	4 ^h 8'07	11 ^h 15	16 ^h 47	20 ^h 29	12 ^h 38	19 ^h 2	10 ^h 11	26 ^h 42	13 ^h 12	14 ^h 27	19 ^h 11	20 ^h 36	11 ^h 54	4 ^h 55	S 19
S 20	2 27 7	5 ^h 8'20	24 ^h 17	18 ^h 17	21 ^h 35	12 ^h 52	19 ^h 15	10 ^h 8	26 ^h 46	13 ^h 14	14 ^h 29	19 ^h 12	20 ^h 33	12 ^h 1	4 ^h 56	S 20
M 21	2 31 4	6 ^h 8'34	6 ^h 57	19 ^h 48	22 ^h 40	13 ^h 6	19 ^h 28	10 ^h 4	26 ^h 49	13 ^h 16	14 ^h 30	19 ^h R13	20 ^h 30	12 ^h 8	4 ^h 57	M 21
T 22	2 35 1	7 ^h 8'49	19 ^h 19	21 ^h 17	23 ^h 45	13 ^h 19	19 ^h 40	10 ^h 0	26 ^h 53	13 ^h 18	14 ^h 32	19 ^h 12	20 ^h 27	12 ^h 15	4 ^h 58	T 22
W 23	2 38 57	8 ^h 9'06	1 ^h 27	22 ^h 47	24 ^h 50	13 ^h 31	19 ^h 53	9 ^h 56	26 ^h 57	13 ^h 21	14 ^h 33	19 ^h 9	20 ^h 23	12 ^h 21	4 ^h 59	W 23
T 24	2 42 54	9 ^h 9'24	13 ^h 26	24 ^h 16	25 ^h 54	13 ^h 43	20 ^h 6	9 ^h 53	27 ^h 1	13 ^h 23	14 ^h 34	19 ^h 4	20 ^h 20	12 ^h 28	5 ^h 0	T 24
F 25	2 46 50	10 ^h 9'44	25 ^h 20	25 ^h 44	26 ^h 59	13 ^h 54	20 ^h 18	9 ^h 49	27 ^h 4	13 ^h 25	14 ^h 36	18 ^h 58	20 ^h 17	12 ^h 35	5 ^h 1	F 25
S 26	2 50 47	11 ^h 10'05	7 ^h Y11	27 ^h 12	28 ^h 3	14 ^h 4	20 ^h 31	9 ^h 45	27 ^h 8	13 ^h 27	14 ^h 37	18 ^h 51	20 ^h 14	12 ^h 41	5 ^h 3	S 26
S 27	2 54 43	12 ^h 10'28	19 ^h 4	28 ^h 39	29 ^h 7	14 ^h 14	20 ^h 44	9 ^h 41	27 ^h 12	13 ^h 30	14 ^h 39	18 ^h 44	20 ^h 11	12 ^h 48	5 ^h 4	S 27
M 28	2 58 40	13 ^h 10'52	0 ^h 59	0 ^h 57	0 ^h 57	14 ^h 23	20 ^h 56	9 ^h 37	27 ^h 15	13 ^h 32	14 ^h 40	18 ^h 37	20 ^h 8	12 ^h 55	5 ^h 6	M 28
T 29	3 2 36	14 ^h 11'18	12 ^h 58	1 ^h 33	1 ^h 13	14 ^h 32	21 ^h 9	9 ^h 32	27 ^h 19	13 ^h 34	14 ^h 41	18 ^h 31	20 ^h 4	13 ^h 2	5 ^h 7	T 29
W 30	3 6 33	15 ^h 11'46	25 ^h 4	2 ^h 58	2 ^h 16	14 ^h 39	21 ^h 21	9 ^h 28	27 ^h 23	13 ^h 36	14 ^h 43	18 ^h 27	20 ^h 1	13 ^h 8	5 ^h 9	W 30
T 31	3 10 29	16 ^h 12'16	7 ^h II17	4 ^h 23	3 ^h 19	14 ^h 36	21 ^h 34	9 ^h II24	27 ^h 26	13 ^h 39	14 ^h 44	18 ^h 25	19 ^h 58	13 ^h Y15	5 ^h 10	T 31

ASTRODIENST EPHEMERIS for the year 1471

geocentric

NOVEMBER 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 14 26	17 ¹¹ 12'47	19 ¹¹ 39	5 ¹⁷ 47	4 ³ 21	14 ⁵ 53	21 ¹⁴ 46	9 ² R20	27 ¹³ 30	13 ¹¹ 41	14 ¹¹ 45	18 ¹⁰ D24	19 ¹⁷ 55	13 ¹⁷ 22	5 ¹¹ 12	F 1
S 2	3 18 23	18 ¹⁰ 13'20	2 ¹⁰ 13	7 ¹⁰ 11	5 ² 23	14 ⁵ 58	21 ¹⁵ 59	9 ¹¹ 15	27 ¹³ 33	13 ¹⁴ 43	14 ¹⁴ 46	18 ¹⁷ 25	19 ¹⁵ 52	13 ¹³ 28	5 ¹⁴ 14	S 2
S 3	3 22 19	19 ¹⁰ 13'54	14 ¹⁰ 59	8 ¹⁰ 33	6 ¹⁰ 25	15 ¹⁰ 3	22 ¹⁰ 11	9 ¹⁰ 11	27 ¹³ 37	13 ¹⁴ 45	14 ¹⁴ 47	18 ¹⁰ 27	19 ¹⁴ 48	13 ¹³ 35	5 ¹⁶ 16	S 3
M 4	3 26 16	20 ¹⁰ 14'30	28 ¹⁰ 1	9 ¹⁰ 55	7 ¹⁰ 26	15 ¹⁰ 7	22 ¹⁰ 23	9 ¹⁰ 6	27 ¹⁴ 41	13 ¹⁴ 48	14 ¹⁴ 49	18 ¹⁰ 28	19 ¹⁴ 45	13 ¹³ 42	5 ¹⁸ 18	M 4
T 5	3 30 12	21 ¹⁰ 15'08	11 ¹⁰ 20	11 ¹⁰ 15	8 ¹⁰ 27	15 ¹⁰ 10	22 ¹⁰ 36	9 ¹⁰ 2	27 ¹⁴ 44	13 ¹⁵ 50	14 ¹⁵ 50	18 ¹⁰ 30	19 ¹⁴ 42	13 ¹³ 49	5 ²⁰ 20	T 5
W 6	3 34 9	22 ¹⁰ 15'48	25 ¹⁰ 0	12 ¹⁰ 34	9 ¹⁰ 28	15 ¹⁰ 12	22 ¹⁰ 48	8 ¹⁰ 57	27 ¹⁴ 48	13 ¹⁵ 52	14 ¹⁵ 51	18 ¹⁰ R30	19 ¹³ 39	13 ¹³ 55	5 ²² 22	W 6
T 7	3 38 5	23 ¹⁰ 16'29	9 ¹⁰ 11	13 ¹⁰ 51	10 ¹⁰ 28	15 ¹⁰ 14	23 ¹⁰ 0	8 ¹⁰ 52	27 ¹⁵ 51	13 ¹⁵ 54	14 ¹⁵ 52	18 ¹⁰ 29	19 ¹³ 36	14 ¹⁰ 2	5 ²⁴ 24	T 7
F 8	3 42 2	24 ¹⁰ 17'13	23 ¹⁰ 20	15 ¹⁰ 7	11 ¹⁰ 28	15 ¹⁰ R15	23 ¹⁰ 12	8 ¹⁰ 48	27 ¹⁵ 55	13 ¹⁵ 57	14 ¹⁵ 53	18 ¹⁰ 27	19 ¹³ 33	14 ¹⁰ 9	5 ²⁶ 26	F 8
S 9	3 45 58	25 ¹⁰ 17'57	7 ¹⁰ 58	16 ¹⁰ 20	12 ¹⁰ 27	15 ¹⁰ 15	23 ¹⁰ 24	8 ¹⁰ 43	27 ¹⁵ 58	13 ¹⁵ 59	14 ¹⁵ 54	18 ¹⁰ 24	19 ¹² 29	14 ¹⁰ 15	5 ²⁸ 28	S 9
S 10	3 49 55	26 ¹⁰ 18'44	22 ¹⁰ 49	17 ¹⁰ 32	13 ¹⁰ 26	15 ¹⁰ 14	23 ¹⁰ 36	8 ¹⁰ 38	28 ¹⁰ 2	14 ¹⁰ 1	14 ¹⁵ 55	18 ¹⁰ 21	19 ¹² 26	14 ¹⁰ 22	5 ³¹ 31	S 10
M 11	3 53 52	27 ¹⁰ 19'31	7 ¹⁰ 14	18 ¹⁰ 40	14 ¹⁰ 25	15 ¹⁰ 12	23 ¹⁰ 48	8 ¹⁰ 33	28 ¹⁰ 5	14 ¹⁰ 3	14 ¹⁵ 56	18 ¹⁰ 18	19 ¹² 23	14 ¹⁰ 29	5 ³³ 33	M 11
T 12	3 57 48	28 ¹⁰ 20'21	22 ¹⁰ 37	19 ¹⁰ 46	15 ¹⁰ 23	15 ¹⁰ 10	24 ¹⁰ 0	8 ¹⁰ 28	28 ¹⁰ 8	14 ¹⁰ 6	14 ¹⁵ 57	18 ¹⁰ 16	19 ¹² 20	14 ¹⁰ 36	5 ³⁵ 35	T 12
W 13	4 1 45	29 ¹⁰ 21'11	7 ¹⁰ 18	20 ¹⁰ 49	16 ¹⁰ 20	15 ¹⁰ 6	24 ¹⁰ 12	8 ¹⁰ 24	28 ¹⁰ 12	14 ¹⁰ 8	14 ¹⁵ 58	18 ¹⁰ 15	19 ¹² 17	14 ¹⁰ 42	5 ³⁸ 38	W 13
T 14	4 5 41	0 ¹⁰ 22'03	21 ¹⁰ 41	21 ¹⁰ 47	17 ¹⁰ 18	15 ¹⁰ 2	24 ¹⁰ 24	8 ¹⁰ 19	28 ¹⁰ 15	14 ¹⁰ 10	14 ¹⁵ 58	18 ¹⁰ D14	19 ¹² 14	14 ¹⁰ 49	5 ⁴⁰ 40	T 14
F 15	4 9 38	1 ¹⁰ 22'56	5 ¹⁰ 34	22 ¹⁰ 42	18 ¹⁰ 14	14 ¹⁰ 57	24 ¹⁰ 35	8 ¹⁰ 14	28 ¹⁰ 18	14 ¹⁰ 12	14 ¹⁵ 59	18 ¹⁰ 15	19 ¹² 10	14 ¹⁰ 56	5 ⁴³ 43	F 15
S 16	4 13 34	2 ¹⁰ 23'50	19 ¹⁰ 16	23 ¹⁰ 31	19 ¹⁰ 10	14 ¹⁰ 51	24 ¹⁰ 47	8 ¹⁰ 9	28 ¹⁰ 22	14 ¹⁰ 14	15 ¹⁰ 0	18 ¹⁰ 16	19 ¹⁰ 7	15 ¹⁰ 2	5 ⁴⁶ 46	S 16
S 17	4 17 31	3 ¹⁰ 24'45	2 ¹⁰ 25	24 ¹⁰ 14	20 ¹⁰ 6	14 ¹⁰ 44	24 ¹⁰ 59	8 ¹⁰ 4	28 ¹⁰ 25	14 ¹⁰ 16	15 ¹⁰ 1	18 ¹⁰ 18	19 ¹⁰ 4	15 ¹⁰ 9	5 ⁴⁸ 48	S 17
M 18	4 21 28	4 ¹⁰ 25'40	15 ¹⁰ 12	24 ¹⁰ 51	21 ¹⁰ 0	14 ¹⁰ 37	25 ¹⁰ 10	7 ¹⁰ 59	28 ¹⁰ 28	14 ¹⁰ 19	15 ¹⁰ 2	18 ¹⁰ 19	19 ¹⁰ 1	15 ¹⁰ 16	5 ⁵¹ 51	M 18
T 19	4 25 24	5 ¹⁰ 26'36	27 ¹⁰ 38	25 ¹⁰ 21	21 ¹⁰ 55	14 ¹⁰ 28	25 ¹⁰ 22	7 ¹⁰ 54	28 ¹⁰ 31	14 ¹⁰ 21	15 ¹⁰ 2	18 ¹⁰ 19	18 ¹⁰ 58	15 ¹⁰ 22	5 ⁵⁴ 54	T 19
W 20	4 29 21	6 ¹⁰ 27'33	9 ¹⁰ 14	25 ¹⁰ 43	22 ¹⁰ 48	14 ¹⁰ 19	25 ¹⁰ 33	7 ¹⁰ 49	28 ¹⁰ 35	14 ¹⁰ 23	15 ¹⁰ 3	18 ¹⁰ R20	18 ¹⁰ 54	15 ¹⁰ 29	5 ⁵⁷ 57	W 20
T 21	4 33 17	7 ¹⁰ 28'31	21 ¹⁰ 48	25 ¹⁰ 56	23 ¹⁰ 41	14 ¹⁰ 9	25 ¹⁰ 44	7 ¹⁰ 44	28 ¹⁰ 38	14 ¹⁰ 25	15 ¹⁰ 3	18 ¹⁰ 19	18 ¹⁰ 51	15 ¹⁰ 36	5 ⁵⁹ 59	T 21
F 22	4 37 14	8 ¹⁰ 29'29	3 ¹⁰ 14	25 ¹⁰ R59	24 ¹⁰ 33	13 ¹⁰ 58	25 ¹⁰ 55	7 ¹⁰ 39	28 ¹⁰ 41	14 ¹⁰ 27	15 ¹⁰ 4	18 ¹⁰ 18	18 ¹⁰ 48	15 ¹⁰ 43	6 ¹⁰ 2	F 22
S 23	4 41 10	9 ¹⁰ 30'28	15 ¹⁰ 32	25 ¹⁰ 51	25 ¹⁰ 25	13 ¹⁰ 46	26 ¹⁰ 7	7 ¹⁰ 34	28 ¹⁰ 44	14 ¹⁰ 29	15 ¹⁰ 5	18 ¹⁰ 17	18 ¹⁰ 45	15 ¹⁰ 49	6 ¹⁰ 5	S 23
S 24	4 45 7	10 ¹⁰ 31'28	27 ¹⁰ 25	25 ¹⁰ 33	26 ¹⁰ 15	13 ¹⁰ 33	26 ¹⁰ 18	7 ¹⁰ 29	28 ¹⁰ 47	14 ¹⁰ 31	15 ¹⁰ 5	18 ¹⁰ 16	18 ¹⁰ 42	15 ¹⁰ 56	6 ¹⁰ 9	S 24
M 25	4 49 3	11 ¹⁰ 32'29	9 ¹⁰ 24	25 ¹⁰ 2	27 ¹⁰ 5	13 ¹⁰ 20	26 ¹⁰ 29	7 ¹⁰ 24	28 ¹⁰ 50	14 ¹⁰ 33	15 ¹⁰ 6	18 ¹⁰ 15	18 ¹⁰ 39	16 ¹⁰ 3	6 ¹⁰ 12	M 25
T 26	4 53 0	12 ¹⁰ 33'30	21 ¹⁰ 30	24 ¹⁰ 21	27 ¹⁰ 54	13 ¹⁰ 5	26 ¹⁰ 40	7 ¹⁰ 19	28 ¹⁰ 53	14 ¹⁰ 35	15 ¹⁰ 6	18 ¹⁰ 14	18 ¹⁰ 35	16 ¹⁰ 9	6 ¹⁰ 15	T 26
W 27	4 56 57	13 ¹⁰ 34'32	3 ¹⁰ 11	23 ¹⁰ 28	28 ¹⁰ 43	12 ¹⁰ 50	26 ¹⁰ 50	7 ¹⁰ 14	28 ¹⁰ 56	14 ¹⁰ 37	15 ¹⁰ 7	18 ¹⁰ 13	18 ¹⁰ 32	16 ¹⁰ 16	6 ¹⁰ 18	W 27
T 28	5 0 53	14 ¹⁰ 35'34	16 ¹⁰ 16	22 ¹⁰ 26	29 ¹⁰ 30	12 ¹⁰ 34	27 ¹⁰ 1	7 ¹⁰ 10	28 ¹⁰ 59	14 ¹⁰ 39	15 ¹⁰ 7	18 ¹⁰ D13	18 ¹⁰ 29	16 ¹⁰ 23	6 ¹⁰ 21	T 28
F 29	5 4 50	15 ¹⁰ 36'38	28 ¹⁰ 57	21 ¹⁰ 15	0 ¹⁰ 16	12 ¹⁰ 18	27 ¹⁰ 12	7 ¹⁰ 5	29 ¹⁰ 2	14 ¹⁰ 41	15 ¹⁰ 7	18 ¹⁰ 13	18 ¹⁰ 26	16 ¹⁰ 30	6 ¹⁰ 25	F 29
S 30	5 8 46	16 ¹⁰ 37'42	11 ¹⁰ 51	19 ¹⁰ 57	1 ¹⁰ 2	12 ¹⁰ 5 1	27 ¹⁰ 23	7 ¹⁰ 11	29 ¹⁰ 5	14 ¹⁰ 14	15 ¹⁰ 8	18 ¹⁰ 14	18 ¹⁰ 23	16 ¹⁰ 36	6 ¹⁰ 28	S 30

Delta T = 05m49s

Julian Calendar 1 Nov. 1471 == Greg. Calendar 10 Nov. 1471

DECEMBER 1471 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 12 43	17 ¹¹ 38'47	24 ¹⁰ 58	18 ¹⁰ R35	1 ¹⁰ 46	11 ¹⁰ R43	27 ¹⁴ 33	6 ¹⁰ R55	29 ¹⁴ 8	14 ¹⁰ 14	15 ¹⁰ 11	18 ¹⁰ 14	18 ¹⁰ 20	16 ¹⁰ 13	6 ¹⁰ 31	S 1
M 2	5 16 39	18 ¹⁰ 39'52	8 ¹⁰ 18	17 ¹⁰ 12	2 ¹⁰ 29	11 ¹⁰ 52	27 ¹⁴ 43	6 ¹⁰ 11	29 ¹⁴ 10	14 ¹⁰ 47	15 ¹⁰ 8	18 ¹⁰ R14	18 ¹⁰ 16	16 ¹⁰ 50	6 ¹⁰ 35	M 2
T 3	5 20 36	19 ¹⁰ 40'58	21 ¹⁰ 51	15 ¹⁰ 51	3 ¹⁰ 12	11 ¹⁰ 5	27 ¹⁵ 4	6 ¹⁰ 45	29 ¹⁴ 13	14 ¹⁰ 49	15 ¹⁰ 8	18 ¹⁰ 14	18 ¹⁰ 13	16 ¹⁰ 56	6 ¹⁰ 38	T 3
W 4	5 24 32	20 ¹⁰ 42'06	5 ¹⁰ 11	14 ¹⁰ 34	3 ¹⁰ 53	10 ¹⁰ 45	28 ¹⁰ 4	6 ¹⁰ 41	29 ¹⁴ 16	14 ¹⁰ 51	15 ¹⁰ 9	18 ¹⁰ 13	18 ¹⁰ 10	17 ¹⁰ 3	6 ¹⁰ 42	W 4
T 5	5 28 29	21 ¹⁰ 43'13	19 ¹⁰ 35	13 ¹⁰ 23	4 ¹⁰ 33	10 ¹⁰ 25	28 ¹⁰ 14	6 ¹⁰ 36	29 ¹⁴ 18	14 ¹⁰ 53	15 ¹⁰ 9	18 ¹⁰ D13	18 ¹⁰ 7	17 ¹⁰ 10	6 ¹⁰ 45	T 5
F 6	5 32 26	22 ¹⁰ 44'22	3 ¹⁰ 44	12 ¹⁰ 21	5 ¹⁰ 12	10 ¹⁰ 4	28 ¹⁰ 24	6 ¹⁰ 31	29 ¹⁴ 21	14 ¹⁰ 55	15 ¹⁰ 9	18 ¹⁰ 13	18 ¹⁰ 4	17 ¹⁰ 17	6 ¹⁰ 49	F 6
S 7	5 36 22	23 ¹⁰ 45'31	18 ¹⁰ 1	11 ¹⁰ 28	5 ¹⁰ 49	9 ¹⁰ 42	28 ¹⁰ 34	6 ¹⁰ 27	29 ¹⁴ 24	14 ¹⁰ 57	15 ¹⁰ 9	18 ¹⁰ 14	18 ¹⁰ 0	17 ¹⁰ 23	6 ¹⁰ 52	S 7
S 8	5 40 19	24 ¹⁰ 46'41	2 ¹⁰ 11	10 ¹⁰ 46	6 ¹⁰ 25	9 ¹⁰ 20	28 ¹⁰ 44	6 ¹⁰ 22	29 ¹⁴ 26	14 ¹⁰ 59	15 ¹⁰ 9	18 ¹⁰ 14	17 ¹⁰ 57	17 ¹⁰ 30	6 ¹⁰ 56	S 8
M 9	5 44 15	25 ¹⁰ 47'52	16 ¹⁰ 52	10 ¹⁰ 14	7 ¹⁰ 0	8 ¹⁰ 58	28 ¹⁰ 54	6 ¹⁰ 17	29 ¹⁴ 29	15 ¹⁰ 1	15 ¹⁰ R 9	18 ¹⁰ 15	17 ¹⁰ 54	17 ¹⁰ 37	7 ¹⁰ 0	M 9
T 10	5 48 12	26 ¹⁰ 49'03	1 ¹⁰ 17	9 ¹⁰ 53	7 ¹⁰ 33	8 ¹⁰ 35	29 ¹⁰ 3	6 ¹⁰ 13	29 ¹⁴ 31	15 ¹⁰ 2	15 ¹⁰ 9	18 ¹⁰ 16	17 ¹⁰ 51	17 ¹⁰ 43	7 ¹⁰ 4	T 10
W 11	5 52 8	27 ¹⁰ 50'15	15 ¹⁰ 34	9 ¹⁰ 43	8 ¹⁰ 5	8 ¹⁰ 12	29 ¹⁰ 13	6 ¹⁰ 9	29 ¹⁴ 34	15 ¹⁰ 4	15 ¹⁰ 9	18 ¹⁰ R16	17 ¹⁰ 48	17 ¹⁰ 50	7 ¹⁰ 7	W 11
T 12	5 56 5	28 ¹⁰ 51'27	29 ¹⁰ 40	9 ¹⁰ D42	8 ¹⁰ 35	7 ¹⁰ 49	29 ¹⁰ 22	6 ¹⁰ 4	29 ¹⁴ 36	15 ¹⁰ 6	15 ¹⁰ 9	18 ¹⁰ 16	17 ¹⁰ 45	17 ¹⁰ 57	7 ¹⁰ 11	T 12
F 13	6 0 1	29 ¹⁰ 52'39	13 ¹⁰ 30	9 ¹⁰ 50	9 ¹⁰ 4	7 ¹⁰ 25	29 ¹⁰ 32	6 ¹⁰ 0	29 ¹⁴ 38	15 ¹⁰ 8	15 ¹⁰ 9	18 ¹⁰ 15	17 ¹⁰ 41	18 ¹⁰ 3	7 ¹⁰ 15	F 13
S 14	6 3 58	0 ¹⁰ 53'51	27 ¹⁰ 0	10 ¹⁰ 7	9 ¹⁰ 31	7 ¹⁰ 2	29 ¹⁰ 41	5 ¹⁰ 56	29 ¹⁴ 41	15 ¹⁰ 9	15 ¹⁰ 9	18 ¹⁰ 13	17 ¹⁰ 38	18 ¹⁰ 10	7 ¹⁰ 19	S 14
S 15	6 7 55	1 ¹⁰ 55'03	10 ¹⁰ 9	10 ¹⁰ 31	9 ¹⁰ 56	6 ¹⁰ 38	29 ¹⁰ 50	5 ¹⁰ 51	29 ¹⁴ 43	15 ¹⁰ 11	15 ¹⁰ 8	18 ¹⁰ 12	17 ¹⁰ 35	18 ¹⁰ 17	7 ¹⁰ 23	S 15
M 16	6 11 51	2 ¹⁰ 56'15	22 ¹⁰ 58	11 ¹⁰ 2	10 ¹⁰ 20	6 ¹⁰ 14	29 ¹⁰ 59	5 ¹⁰ 47	29 ¹⁴ 45	15 ¹⁰ 13	15 ¹⁰ 8	18 ¹⁰ 9	17 ¹⁰ 32	18 ¹⁰ 24	7 ¹⁰ 27	M 16
T 17	6 15 48	3 ¹⁰ 57'27	5 ¹⁰ 28	11 ¹⁰ 40	10 ¹⁰ 41	5 ¹⁰ 50	0 ¹⁰ 11 8	5 ¹⁰ 43	29 ¹⁴ 47	15 ¹⁰ 14	15 ¹⁰ 8	18 ¹⁰ 7	17 ¹⁰ 29	18 ¹⁰ 30	7 ¹⁰ 31	T 17
W 18	6 19 44	4 ¹⁰ 58'39	17 ¹⁰ 42	12 ¹⁰ 23	11 ¹⁰ 1	5 ¹⁰ 26	0 ¹⁰ 17	5 ¹⁰ 39	29 ¹⁴ 49	15 ¹⁰ 16	15 ¹⁰ 8	18 ¹⁰ 6	17 ¹⁰ 26	18 ¹⁰ 37	7 ¹⁰ 35	W 18
T 19	6 23 41	5 ¹⁰ 59'50	29 ¹⁰ 43	13 ¹⁰ 11	11 ¹⁰ 18	5 ¹⁰ 2	0 ¹⁰ 25	5 ¹⁰ 35	29 ¹⁴ 51	15 ¹⁰ 18	15 ¹⁰ 7	18 ¹⁰ 5	17 ¹⁰ 22	18 ¹⁰ 44	7 ¹⁰ 39	T 19
F 20	6 27 37	7 ¹⁰ 1'00	11 ¹⁰ 37	14 ¹⁰ 3	11 ¹⁰ 34	4 ¹⁰ 38	0 ¹⁰ 34	5 ¹⁰ 31	29 ¹⁴ 53	15 ¹⁰ 19	15 ¹⁰ 7	18 ¹⁰ D 5	17 ¹⁰ 19	18 ¹⁰ 50	7 ¹⁰ 43	F 20
S 21	6 31 34	8 ¹⁰ 2'11	23 ¹⁰ 28	14 ¹⁰ 59	11 ¹⁰ 47	4 ¹⁰ 14	0 ¹⁰ 42	5 ¹⁰ 28	29 ¹⁴ 55	15 ¹⁰ 21	15 ¹⁰ 7	18 ¹⁰ 6	17 ¹⁰ 16	18 ¹⁰ 57	7 ¹⁰ 47	S 21
S 22	6 35 30	9 ¹⁰ 3'21	5 ¹⁰ 21	15 ¹⁰ 59	11 ¹⁰ 58	3 ¹⁰ 51	0 ¹⁰ 50	5 ¹⁰ 24	29 ¹⁴ 57	15 ¹⁰ 22	15 ¹⁰ 6	18 ¹⁰ 7	17 ¹⁰ 13	19 ¹⁰ 4	7 ¹⁰ 51	S 22
M 23	6 39 27	10 ¹⁰ 4'30	17 ¹⁰ 21	17 ¹⁰ 2	12 ¹⁰ 7	3 ¹⁰ 28	0 ¹⁰ 58	5 ¹⁰ 20	29 ¹⁴ 59	15 ¹⁰ 24	15 ¹⁰ 6	18 ¹⁰ 9	17 ¹⁰ 10	19 ¹⁰ 10	7 ¹⁰ 56	M 23
T 24	6 43 24	11 ¹⁰ 5'40	29 ¹⁰ 32	18 ¹⁰ 7	12 ¹⁰ 13	3 ¹⁰ 5	1 ¹⁰ 6	5 ¹⁰ 17	0 ¹⁰ 11 12	15 ¹⁰ 25	15 ¹⁰ 5	18 ¹⁰ 10	17 ¹⁰ 6	19 ¹⁰ 17	8 ¹⁰ 0	T 24
W 25	6 47 20	12 ¹⁰ 6'48	11 ¹⁰ 15	19 ¹⁰ 15	12 ¹⁰ 18	2 ¹⁰ 42	1 ¹⁰ 14	5 ¹⁰ 13	0 ¹⁰ 3	15 ¹⁰ 27	15 ¹⁰ 5	18 ¹⁰ R11	17 ¹⁰ 3	19 ¹⁰ 24	8 ¹⁰ 4	W 25
T 26	6 51 17	13 ¹⁰ 7'57	24 ¹⁰ 39	20 ¹⁰ 26	12 ¹⁰ R19	2 ¹⁰ 20	1 ¹⁰ 22	5 ¹⁰ 10	0 ¹⁰ 4	15 ¹⁰ 28	15 ¹⁰ 4	18 ¹⁰ 11	17 ¹⁰ 0	19 ¹⁰ 31	8 ¹⁰ 8	T 26
F 27	6 55 13	14 ¹⁰ 9'05	7 ¹⁰ 38	21 ¹⁰ 38	12 ¹⁰ 18	1 ¹⁰ 59	1 ¹⁰ 30	5 ¹⁰ 7	0 ¹⁰ 6	15 ¹⁰ 30	15 ¹⁰ 4	18 ¹⁰ 10	16 ¹⁰ 57	19 ¹⁰ 37	8 ¹⁰ 13	F 27
S 28	6 59 10	15 ¹⁰ 10'12	20 ¹⁰ 56	22 ¹⁰ 52	12 ¹⁰ 15	1 ¹⁰ 37	1 ¹⁰ 37	5 ¹⁰ 3	0 ¹⁰ 8	15 ¹⁰ 31	15 ¹⁰ 3	18 ¹⁰ 7	16 ¹⁰ 54	19 ¹⁰ 44	8 ¹⁰ 17	S 28
S 29	7 3 6	16 ¹⁰ 11'19	4 ¹⁰ 30	24 ¹⁰ 8	12 ¹⁰ 9	1 ¹⁰ 17	1 ¹⁰ 44	5 ¹⁰ 0	0 ¹⁰ 9	15 ¹⁰ 32	15 ¹⁰ 3	18 ¹⁰ 3	16 ¹⁰ 51	19 ¹⁰ 51	8 ¹⁰ 21	S 29
M 30	7 7 3	17 ¹⁰ 12'26	18 ¹⁰ 19	25 ¹⁰ 25	12 ¹⁰ 1	0 ¹⁰ 56	1 ¹⁰ 52	4 ¹⁰ 57	0 ¹⁰ 11	15 ¹⁰ 34	15 ¹⁰ 2	17 ¹⁰ 59	16 ¹⁰ 47	19 ¹⁰ 57	8 ¹⁰ 25	M 30
T 31	7 11 0	18 ¹⁰ 13'32	2 ¹⁰ 18	26 ¹⁰ 44	11 ¹⁰ 50	0 ¹⁰ 37	1 ¹⁰ 15	4 ¹⁰ 15	0 ¹⁰ 12	15 ¹⁰ 35	15 ¹⁰ 1	17 ¹⁰ 54	16 ¹⁰ 44	20 ¹⁰ 4	8 ¹⁰ 30	T 31