



Astrodienst Ephemeris Tables for the year 1551

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 1551
geocentric

JANUARY 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 18 19	20°3'40"	7°30'	29°35'	3°55'	3°R58	22°R42	9°54'	8°7'	5°R51	26°36'	17°R31	18°41'	24°40'	18°R59	T 1
F 2	7 22 15	21°5'13"	21°13'	0°58'	5°10'	3°58'	22°II36	10°1'	8°7'	5°51'	26°38'	17°II27	18°38'	24°47'	18°55'	F 2
S 3	7 26 12	22°6'20"	4°46'	2°21'	6°25'	3°19'	22°30'	10°8'	8°R7'	5°50'	26°39'	17°21'	18°35'	24°54'	18°50'	S 3
S 4	7 30 9	23°7'26"	18°8'	3°46'	7°41'	3°0'	22°24'	10°15'	8°7'	5°50'	26°41'	17°13'	18°31'	25°0'	18°46'	S 4
M 5	7 34 5	24°8'32"	1°31'	5°12'	8°56'	2°42'	22°18'	10°22'	8°7'	5°50'	26°42'	17°3'	18°28'	25°7'	18°42'	M 5
T 6	7 38 2	25°9'37"	14°16'	6°38'	10°11'	2°25'	22°12'	10°29'	8°7'	5°50'	26°43'	16°53'	18°25'	25°14'	18°37'	T 6
W 7	7 41 58	26°10'41"	26°59'	8°5'	11°26'	2°8'	22°6'	10°36'	8°7'	5°D50	26°45'	16°44'	18°22'	25°20'	18°33'	W 7
T 8	7 45 55	27°11'45"	9°29'	9°33'	12°42'	1°52'	22°1'	10°43'	8°6'	5°50'	26°46'	16°36'	18°19'	25°27'	18°29'	T 8
F 9	7 49 51	28°12'48"	21°45'	11°1'	13°57'	1°37'	21°56'	10°51'	8°6'	5°50'	26°48'	16°31'	18°16'	25°33'	18°24'	F 9
S 10	7 53 48	29°13'49"	3°49'	12°31'	15°12'	1°23'	21°50'	10°58'	8°6'	5°50'	26°49'	16°27'	18°12'	25°40'	18°20'	S 10
S 11	7 57 44	0°14'50"	15°44'	14°1'	16°27'	1°9'	21°46'	11°5'	8°5'	5°51'	26°51'	16°D26	18°9'	25°47'	18°16'	S 11
M 12	8 1 41	1°15'49"	27°32'	15°32'	17°42'	0°57'	21°41'	11°12'	8°5'	5°51'	26°52'	16°27'	18°6'	25°53'	18°11'	M 12
T 13	8 5 38	2°16'48"	9°19'	17°3'	18°58'	0°45'	21°36'	11°19'	8°4'	5°51'	26°54'	16°28'	18°3'	26°0'	18°7'	T 13
W 14	8 9 34	3°17'45"	21°8'	18°35'	20°13'	0°33'	21°32'	11°26'	8°4'	5°51'	26°56'	16°30'	18°0'	26°7'	18°3'	W 14
T 15	8 13 31	4°18'41"	3°6'	20°8'	21°28'	0°23'	21°27'	11°33'	8°3'	5°51'	26°57'	16°R31	17°56'	26°13'	17°59'	T 15
F 16	8 17 27	5°19'35"	15°17'	21°41'	22°43'	0°13'	21°23'	11°41'	8°2'	5°52'	26°59'	16°30'	17°53'	26°20'	17°55'	F 16
S 17	8 21 24	6°20'29"	27°47'	23°16'	23°58'	0°4'	21°19'	11°48'	8°2'	5°52'	27°0'	16°28'	17°50'	26°27'	17°50'	S 17
S 18	8 25 20	7°21'20"	10°II40	24°50'	25°14'	29°II56	21°16'	11°55'	8°1'	5°52'	27°2'	16°24'	17°47'	26°33'	17°46'	S 18
M 19	8 29 17	8°22'11"	23°58'	26°26'	26°29'	29°49'	21°12'	12°2'	8°0'	5°53'	27°3'	16°18'	17°44'	26°40'	17°42'	M 19
T 20	8 33 13	9°23'00"	7°42'	28°2'	27°44'	29°43'	21°9'	12°9'	7°59'	5°53'	27°5'	16°12'	17°41'	26°47'	17°38'	T 20
W 21	8 37 10	10°23'48"	21°51'	29°40'	28°59'	29°37'	21°6'	12°16'	7°58'	5°54'	27°7'	16°6'	17°37'	26°53'	17°34'	W 21
T 22	8 41 7	11°24'34"	6°21'	1°17'	0°14'	29°33'	21°3'	12°24'	7°57'	5°54'	27°8'	16°1'	17°34'	27°0'	17°31'	T 22
F 23	8 45 3	12°25'19"	21°5'	2°56'	1°29'	29°29'	21°0'	12°31'	7°56'	5°55'	27°10'	15°58'	17°31'	27°6'	17°27'	F 23
S 24	8 49 0	13°26'03"	5°II57	4°35'	2°44'	29°25'	20°58'	12°38'	7°55'	5°55'	27°12'	15°56'	17°28'	27°13'	17°23'	S 24
S 25	8 52 56	14°26'45"	20°47'	6°16'	4°0'	29°23'	20°55'	12°45'	7°54'	5°56'	27°13'	15°D55	17°25'	27°20'	17°19'	S 25
M 26	8 56 53	15°27'27"	5°II29	7°57'	5°15'	29°21'	20°53'	12°52'	7°53'	5°57'	27°15'	15°56'	17°22'	27°26'	17°15'	M 26
T 27	9 0 49	16°28'07"	19°59'	9°38'	6°30'	29°20'	20°51'	13°0'	7°51'	5°57'	27°17'	15°58'	17°18'	27°33'	17°12'	T 27
W 28	9 4 46	17°28'46"	4°II12	11°21'	7°45'	29°D20	20°49'	13°7'	7°50'	5°58'	27°18'	15°59'	17°15'	27°40'	17°8'	W 28
T 29	9 8 42	18°29'24"	18°7'	13°5'	9°0'	29°21'	20°48'	13°14'	7°49'	5°59'	27°20'	16°R0	17°12'	27°46'	17°5'	T 29
F 30	9 12 39	19°30'01"	1°44'	14°49'	10°15'	29°22'	20°47'	13°21'	7°47'	6°0'	27°22'	15°59'	17°9'	27°53'	17°1'	F 30
S 31	9 16 36	20°30'36"	15°4'	16°34'	11°30'	29°II24	20°II45	13°28'	7°46'	6°1'	27°23'	15°II57	17°II6	28°II0	16°58'	S 31

Delta T = 177.69 sec

Julian Calendar 1 Jan. 1551 == Greg. Calendar 11 Jan. 1551

FEBRUARY 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	9 20 32	21°31'11"	28°8'	18°21'	12°45'	29°II27	20°R44	13°36'	7°R44	6°1'	27°25'	15°R54	17°II2	28°II6	16°R55	S 1
M 2	9 24 29	22°31'44"	10°58'	20°8'	14°0'	29°31'	20°II44	13°43'	7°44'	6°2'	27°27'	15°II51	16°59'	28°13'	16°55'	M 2
T 3	9 28 25	23°32'16"	23°34'	21°56'	15°15'	29°35'	20°43'	13°50'	7°41'	6°3'	27°28'	15°47'	16°56'	28°20'	16°48'	T 3
W 4	9 32 22	24°32'46"	5°58'	23°45'	16°31'	29°40'	20°43'	13°57'	7°40'	6°4'	27°30'	15°43'	16°53'	28°26'	16°45'	W 4
T 5	9 36 18	25°33'15"	18°12'	25°34'	17°46'	29°45'	20°D43	14°4'	7°38'	6°5'	27°32'	15°41'	16°50'	28°33'	16°42'	T 5
F 6	9 40 15	26°33'42"	0°16'	27°25'	19°1'	29°51'	20°43'	14°11'	7°36'	6°6'	27°33'	15°39'	16°47'	28°40'	16°39'	F 6
S 7	9 44 11	27°34'07"	12°12'	29°16'	20°16'	29°58'	20°43'	14°18'	7°35'	6°7'	27°35'	15°D38	16°43'	28°46'	16°36'	S 7
S 8	9 48 8	28°34'30"	24°3'	1°18'	21°31'	0°56'	20°43'	14°25'	7°33'	6°8'	27°37'	15°38'	16°40'	28°53'	16°34'	S 8
M 9	9 52 5	29°34'52"	5°II50	3°1'	22°46'	0°14'	20°44'	14°32'	7°31'	6°9'	27°38'	15°39'	16°37'	28°59'	16°31'	M 9
T 10	9 56 1	0°35'12"	17°37'	4°54'	24°1'	0°23'	20°45'	14°39'	7°29'	6°10'	27°40'	15°40'	16°34'	29°6'	16°28'	T 10
W 11	9 59 58	1°35'30"	29°27'	6°48'	25°16'	0°32'	20°46'	14°46'	7°27'	6°12'	27°42'	15°42'	16°31'	29°13'	16°26'	W 11
T 12	10 3 54	2°35'46"	11°25'	8°43'	26°31'	0°42'	20°47'	14°53'	7°25'	6°13'	27°43'	15°43'	16°27'	29°19'	16°23'	T 12
F 13	10 7 51	3°36'00"	23°35'	10°38'	27°46'	0°52'	20°49'	15°0'	7°23'	6°14'	27°45'	15°44'	16°24'	29°26'	16°21'	F 13
S 14	10 11 47	4°36'12"	6°II1	12°32'	29°0'	1°3'	20°50'	15°7'	7°21'	6°15'	27°47'	15°R44	16°21'	29°33'	16°19'	S 14
S 15	10 15 44	5°36'21"	18°48'	14°27'	0°15'	1°15'	20°52'	15°14'	7°19'	6°17'	27°48'	15°44'	16°18'	29°39'	16°16'	S 15
M 16	10 19 40	6°36'29"	2°50'	16°21'	1°30'	1°27'	20°54'	15°21'	7°17'	6°18'	27°50'	15°43'	16°15'	29°46'	16°14'	M 16
T 17	10 23 37	7°36'35"	15°38'	18°15'	2°45'	1°40'	20°56'	15°28'	7°15'	6°19'	27°52'	15°42'	16°12'	29°53'	16°12'	T 17
W 18	10 27 34	8°36'38"	29°44'	20°8'	4°0'	1°53'	20°59'	15°35'	7°13'	6°21'	27°53'	15°41'	16°8'	29°59'	16°10'	W 18
T 19	10 31 30	9°36'39"	14°II15	22°0'	5°15'	2°7'	21°1'	15°42'	7°11'	6°22'	27°55'	15°40'	16°5'	0°II6	16°8'	T 19
F 20	10 35 27	10°36'39"	29°7'	23°50'	6°30'	2°21'	21°4'	15°48'	7°8'	6°23'	27°57'	15°40'	16°2'	0°13'	16°7'	F 20
S 21	10 39 23	11°36'36"	14°II12	25°38'	7°45'	2°36'	21°7'	15°55'	7°6'	6°25'	27°58'	15°D40	15°59'	0°19'	16°5'	S 21
S 22	10 43 20	12°36'31"	29°22'	27°23'	8°59'	2°51'	21°10'	16°2'	7°4'	6°26'	28°0'	15°40'	15°56'	0°26'	16°3'	S 22
M 23	10 47 16	13°36'24"	14°II27	29°5'	10°14'	3°6'	21°14'	16°9'	7°2'	6°28'	28°2'	15°40'	15°53'	0°33'	16°2'	M 23
T 24	10 51 13	14°36'16"	29°19'	0°II44	11°29'	3°22'	21°17'	16°15'	6°59'	6°29'	28°3'	15°40'	15°49'	0°39'	16°1'	T 24
W 25	10 55 9	15°36'06"	13°II51	2°19'	12°44'	3°39'	21°21'	16°22'	6°57'	6°31'	28°5'	15°R40	15°46'	0°46'	15°59'	W 25
T 26	10 59 6	16°35'54"	28°0'	3°50'	13°59'	3°56'	21°25'	16°28'	6°55'	6°32'	28°6'	15°40'	15°43'	0°53'	15°58'	T 26
F 27	11 3 2	17°35'41"	11°44'	5°15'	15°13'	4°13'	21°29'	16°35'	6°52'	6°34'	28°8'	15°D40	15°40'	0°59'	15°57'	F 27
S 28	11 6 59	18°35'26"	25°4'	6°II35	16°II28	4°53'	21°II33	16°42'	6°50'	6°36'	28°10'	15°II40	15°II37	1°II6	15°56'	S 28

Delta T = 177.50 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1551

geocentric

MARCH 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 10 56	19°35'09	8°31	7°48	17°43	4°49	21°37	16°48	6°47	6°37	28°11	15°40	15°33	1°12	15°55	S 1
M 2	11 14 52	20°34'50	20°39	8°56	18°58	5° 8	21°42	16°54	6°45	6°39	28°13	15°41	15°30	1°19	15°54	M 2
T 3	11 18 49	21°34'30	3° 2	9°57	20°12	5°26	21°47	17° 1	6°43	6°41	28°14	15°41	15°27	1°26	15°54	T 3
W 4	11 22 45	22°34'08	15°12	10°50	21°27	5°46	21°52	17° 7	6°40	6°42	28°16	15°42	15°24	1°32	15°53	W 4
T 5	11 26 42	23°33'44	27°13	11°36	22°42	6° 5	21°57	17°13	6°38	6°44	28°17	15°43	15°21	1°39	15°53	T 5
F 6	11 30 38	24°33'18	9° 6	12°15	23°56	6°25	22° 2	17°20	6°35	6°46	28°19	15°43	15°18	1°46	15°52	F 6
S 7	11 34 35	25°32'50	20°56	12°45	25°11	6°46	22° 7	17°26	6°33	6°48	28°21	15°43	15°14	1°52	15°52	S 7
S 8	11 38 31	26°32'19	2°44	13° 8	26°26	7° 7	22°13	17°32	6°30	6°50	28°22	15°43	15°11	1°59	15°52	S 8
M 9	11 42 28	27°31'47	14°31	13°23	27°40	7°28	22°19	17°38	6°27	6°51	28°24	15°41	15° 8	2° 6	15°51	M 9
T 10	11 46 25	28°31'13	26°22	13°R31	28°55	7°49	22°25	17°44	6°25	6°53	28°25	15°40	15° 5	2°12	15°50	T 10
W 11	11 50 21	29°30'37	8°17	13°30	0° 9	8°11	22°31	17°50	6°22	6°55	28°27	15°38	15° 2	2°19	15°52	W 11
T 12	11 54 18	0°Y29'58	20°19	13°22	1°24	8°33	22°37	17°56	6°20	6°57	28°28	15°35	14°58	2°26	15°52	T 12
F 13	11 58 14	1°29'17	2°32	13° 7	2°38	8°55	22°43	18° 2	6°17	6°59	28°29	15°33	14°55	2°32	15°52	F 13
S 14	12 2 11	2°28'34	14°58	12°45	3°53	9°18	22°50	18° 8	6°15	7° 1	28°31	15°32	14°52	2°39	15°52	S 14
S 15	12 6 7	3°27'48	27°42	12°18	5° 7	9°41	22°57	18°14	6°12	7° 3	28°32	15°D31	14°49	2°46	15°53	S 15
M 16	12 10 4	4°27'00	10°47	11°44	6°22	10° 4	23° 3	18°19	6° 9	7° 5	28°34	15°31	14°46	2°52	15°54	M 16
T 17	12 14 0	5°26'10	24°15	11° 7	7°36	10°27	23°10	18°25	6° 7	7° 7	28°35	15°32	14°43	2°59	15°54	T 17
W 18	12 17 57	6°25'18	8° 9	10°25	8°51	10°51	23°18	18°31	6° 4	7° 9	28°37	15°33	14°39	3° 6	15°55	W 18
T 19	12 21 54	7°24'23	22°29	9°40	10° 5	11°15	23°25	18°36	6° 2	7°11	28°38	15°35	14°36	3°12	15°56	T 19
F 20	12 25 50	8°23'26	7°12	8°53	11°20	11°39	23°32	18°42	5°59	7°13	28°39	15°36	14°33	3°19	15°57	F 20
S 21	12 29 47	9°22'26	22°14	8° 5	12°34	12° 4	23°40	18°47	5°57	7°15	28°41	15°R36	14°30	3°25	15°58	S 21
S 22	12 33 43	10°21'24	7°26	7°17	13°48	12°28	23°47	18°53	5°54	7°17	28°42	15°34	14°27	3°32	15°59	S 22
M 23	12 37 40	11°20'21	22°40	6°30	15° 3	12°53	23°55	18°58	5°51	7°19	28°43	15°32	14°24	3°39	16° 1	M 23
T 24	12 41 36	12°19'15	7°45	5°44	16°17	13°19	24° 3	19° 3	5°49	7°21	28°45	15°29	14°20	3°45	16° 2	T 24
W 25	12 45 33	13°18'08	22°33	5° 1	17°31	13°44	24°11	19° 8	5°46	7°23	28°46	15°25	14°17	3°52	16° 3	W 25
T 26	12 49 29	14°16'58	6°56	4°21	18°46	14°10	24°19	19°14	5°44	7°25	28°47	15°21	14°14	3°59	16° 5	T 26
F 27	12 53 26	15°15'47	20°51	3°45	20° 0	14°36	24°28	19°19	5°41	7°27	28°48	15°18	14°11	4° 5	16° 7	F 27
S 28	12 57 22	16°14'34	4°31	3°13	21°14	15° 2	24°36	19°24	5°39	7°29	28°50	15°16	14° 8	4°12	16° 8	S 28
S 29	13 1 19	17°13'20	17°18	2°45	22°28	15°28	24°45	19°29	5°36	7°31	28°51	15°D15	14° 4	4°19	16°10	S 29
M 30	13 5 16	18°12'04	29°54	2°22	23°43	15°55	24°54	19°33	5°34	7°34	28°52	15°16	14° 1	4°25	16°12	M 30
T 31	13 9 12	19°10'46	12°12	2°Y 5	24°Y57	16°21	25°II 2	19°38	5°31	7°36	28°53	15°17	13°58	4°Y32	16°14	T 31

Delta T = 177.34 sec

Julian Calendar 1 March 1551 == Greg. Calendar 11 March 1551

APRIL 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	13 13 9	20°Y 9'26	24°16	1°R52	26°Y11	16°48	25°II 1	19°43	5°R29	7°38	28°54	15°19	13°55	4°Y39	16°17	W 1
T 2	13 17 5	21° 8'05	6°10	1°Y45	27°25	17°15	25°20	19°48	5°26	7°40	28°55	15°20	13°52	4°45	16°19	T 2
F 3	13 21 2	22° 6'41	17°58	1°D43	28°39	17°43	25°30	19°52	5°24	7°42	28°57	15°R21	13°49	4°52	16°21	F 3
S 4	13 24 58	23° 5'16	29°45	1°46	29°54	18°10	25°39	19°57	5°21	7°44	28°58	15°20	13°45	4°59	16°24	S 4
S 5	13 28 55	24° 3'49	11°Y32	1°54	1° 8	18°38	25°48	20° 1	5°19	7°47	28°59	15°17	13°42	5° 5	16°26	S 5
M 6	13 32 51	25° 2'21	23°23	2° 7	2°22	19° 6	25°58	20° 5	5°16	7°49	29° 0	15°12	13°39	5°12	16°29	M 6
T 7	13 36 48	26° 0'50	5°20	2°24	3°36	19°34	26° 7	20°10	5°14	7°51	29° 1	15° 5	13°36	5°19	16°31	T 7
W 8	13 40 45	26°59'18	17°24	2°47	4°50	20° 2	26°17	20°14	5°12	7°53	29° 2	14°58	13°33	5°25	16°34	W 8
T 9	13 44 41	27°57'43	29°36	3°13	6° 4	20°31	26°27	20°18	5° 9	7°56	29° 3	14°50	13°30	5°32	16°37	T 9
F 10	13 48 38	28°56'07	11°II59	3°44	7°18	20°59	26°37	20°22	5° 7	7°58	29° 4	14°42	13°26	5°39	16°40	F 10
S 11	13 52 34	29°54'28	24°33	4°19	8°32	21°28	26°47	20°26	5° 5	8° 0	29° 5	14°36	13°23	5°45	16°43	S 11
S 12	13 56 31	0°52'48	7°21	4°58	9°46	21°57	26°57	20°30	5° 2	8° 2	29° 6	14°31	13°20	5°52	16°46	S 12
M 13	14 0 27	1°51'05	20°26	5°41	11° 0	22°26	27° 7	20°34	5° 0	8° 4	29° 7	14°29	13°17	5°59	16°50	M 13
T 14	14 4 24	2°49'20	3°49	6°27	12°14	22°55	27°18	20°37	4°58	8° 7	29° 8	14°D28	13°14	6° 5	16°53	T 14
W 15	14 8 20	3°47'34	17°33	7°17	13°28	23°24	27°28	20°41	4°56	8° 9	29° 8	14°29	13°10	6°12	16°56	W 15
T 16	14 12 17	4°45'45	1°13	8° 9	14°42	23°54	27°38	20°45	4°54	8°11	29° 9	14°30	13° 7	6°18	17° 0	T 16
F 17	14 16 14	5°43'54	16° 5	9° 6	15°56	24°24	27°49	20°48	4°52	8°13	29°10	14°R30	13° 4	6°25	17° 3	F 17
S 18	14 20 10	6°42'01	0°50	10° 5	17° 9	24°53	28° 0	20°51	4°50	8°16	29°11	14°29	13° 1	6°32	17° 7	S 18
S 19	14 24 7	7°40'06	15°49	11° 7	18°23	25°23	28°11	20°55	4°47	8°18	29°12	14°26	12°58	6°38	17°11	S 19
M 20	14 28 3	8°38'09	0°54	12°12	19°37	25°53	28°21	20°58	4°45	8°20	29°13	14°21	12°55	6°45	17°15	M 20
T 21	14 32 0	9°36'11	15°56	13°19	20°51	26°23	28°32	21° 1	4°43	8°22	29°13	14°13	12°51	6°52	17°19	T 21
W 22	14 35 56	10°34'11	0°45	14°29	22° 5	26°54	28°43	21° 4	4°42	8°25	29°14	14° 5	12°48	6°58	17°22	W 22
T 23	14 39 53	11°32'10	15°13	15°42	23°18	27°24	28°54	21° 7	4°40	8°27	29°15	13°56	12°45	7° 5	17°27	T 23
F 24	14 43 49	12°30'07	29°14	16°57	24°32	27°55	29° 6	21°10	4°38	8°29	29°15	13°48	12°42	7°12	17°31	F 24
S 25	14 47 46	13°28'03	12°347	18°15	25°46	28°25	29°17	21°13	4°36	8°32	29°16	13°42	12°39	7°18	17°35	S 25
S 26	14 51 43	14°25'58	25°52	19°35	26°59	28°56	29°28	21°15	4°34	8°34	29°17	13°38	12°35	7°25	17°39	S 26
M 27	14 55 39	15°23'51	8°32	20°58	28°13	29°27	29°40	21°18	4°32	8°36	29°17	13°37	12°32	7°32	17°44	M 27
T 28	14 59 36	16°21'43	20°51	22°22	29°27	29°58	29°51	21°21	4°31	8°38	29°18	13°D37	12°29	7°38	17°48	T 28
W 29	15 3 32	17°19'33	2°54	23°49	0°II40	0°129	0°3	21°23	4°29	8°40	29°18	13°37	12°26	7°45	17°52	W 29
T 30	15 7 29	18°17'23	14°46	25°Y19	1°II54	1° 1	0°14	21°25	4°27	8°43	29°19	13°R37	12°23	7°Y52	17°57	T 30

Delta T = 177.15 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1551

geocentric

MAY 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15 11 25	19°15'11"	26°34'	26°50'	3°11' 8"	1°13'32"	0°26'	21°27'	4°26'	8°45'	29°19'	13°37'	12°20'	7°58'	18°2'	F 1
S 2	15 15 22	20°12'58"	8°21'	28°24'	4°21'	2° 4'	0°38'	21°30'	4°24'	8°47'	29°20'	13°34'	12°16'	8° 5'	18° 6'	S 2
S 3	15 19 18	21°10'44"	20°11'	29°59'	5°35'	2°35'	0°50'	21°32'	4°23'	8°49'	29°20'	13°28'	12°13'	8°12'	18°11'	S 3
M 4	15 23 15	22° 8'28"	2° 8'	1°38'	6°48'	3° 7'	1° 2'	21°34'	4°21'	8°52'	29°21'	13°20'	12°10'	8°18'	18°16'	M 4
T 5	15 27 11	23° 6'12"	14°13'	3°18'	8° 2'	3°39'	1°13'	21°35'	4°20'	8°54'	29°21'	13°10'	12° 7'	8°25'	18°21'	T 5
W 6	15 31 8	24° 3'54"	26°29'	5° 1'	9°15'	4°11'	1°25'	21°37'	4°18'	8°56'	29°22'	12°58'	12° 4'	8°32'	18°26'	W 6
T 7	15 35 5	25° 1'35"	8°15'	6°45'	10°29'	4°43'	1°38'	21°39'	4°17'	8°58'	29°22'	12°45'	12° 1'	8°38'	18°31'	T 7
F 8	15 39 1	25°59'14"	21°35'	8°32'	11°43'	5°15'	1°50'	21°40'	4°16'	9° 0'	29°22'	12°33'	11°57'	8°45'	18°36'	F 8
S 9	15 42 58	26°56'52"	4°25'	10°21'	12°56'	5°47'	2° 2'	21°42'	4°14'	9° 3'	29°23'	12°23'	11°54'	8°52'	18°41'	S 9
S 10	15 46 54	27°54'29"	17°27'	12°12'	14° 9'	6°20'	2°14'	21°43'	4°13'	9° 5'	29°23'	12°15'	11°51'	8°58'	18°47'	S 10
M 11	15 50 51	28°52'04"	0°41'	14° 5'	15°23'	6°52'	2°26'	21°45'	4°12'	9° 7'	29°23'	12°10'	11°48'	9° 5'	18°52'	M 11
T 12	15 54 47	29°49'38"	14° 8'	16° 1'	16°36'	7°25'	2°39'	21°46'	4°11'	9° 9'	29°23'	12° 7'	11°45'	9°12'	18°57'	T 12
W 13	15 58 44	0°11'47"10	27°50'	17°58'	17°50'	7°57'	2°51'	21°47'	4°10'	9°11'	29°24'	12°D 7'	11°41'	9°18'	19° 3'	W 13
T 14	16 2 41	1°44'41"	11°17'	19°58'	19° 3'	8°30'	3° 4'	21°48'	4° 9'	9°13'	29°24'	12°R 7'	11°38'	9°25'	19° 8'	T 14
F 15	16 6 37	2°42'11"	25°59'	21°59'	20°16'	9° 3'	3°16'	21°49'	4° 8'	9°15'	29°24'	12° 6'	11°35'	9°32'	19°14'	F 15
S 16	16 10 34	3°39'39"	10°26'	24° 2'	21°30'	9°36'	3°29'	21°49'	4° 7'	9°18'	29°24'	12° 4'	11°32'	9°38'	19°19'	S 16
S 17	16 14 30	4°37'06"	25° 4'	26° 7'	22°43'	10° 9'	3°41'	21°50'	4° 6'	9°20'	29°24'	12° 0'	11°29'	9°45'	19°25'	S 17
M 18	16 18 27	5°34'31"	9°14'	28°14'	23°56'	10°42'	3°54'	21°51'	4° 5'	9°22'	29°24'	11°52'	11°26'	9°52'	19°31'	M 18
T 19	16 22 23	6°31'56"	24°31'	0°11'22"	25°10'	11°15'	4° 7'	21°51'	4° 5'	9°24'	29°24'	11°43'	11°22'	9°58'	19°37'	T 19
W 20	16 26 20	7°29'20"	9°16'	2°31'	26°23'	11°48'	4°19'	21°52'	4° 4'	9°26'	29°24'	11°31'	11°19'	10° 5'	19°42'	W 20
T 21	16 30 16	8°26'43"	23° 6'	4°42'	27°36'	12°22'	4°32'	21°52'	4° 3'	9°28'	29°24'	11°20'	11°16'	10°12'	19°48'	T 21
F 22	16 34 13	9°24'05"	7°32'	6°53'	28°49'	12°55'	4°45'	21°52'	4° 3'	9°30'	29°24'	11°10'	11°13'	10°18'	19°54'	F 22
S 23	16 38 10	10°21'26"	20°52'	9° 5'	0°52' 2"	13°29'	4°58'	21°52'	4° 2'	9°32'	29°24'	11° 1'	11°10'	10°25'	20° 0'	S 23
S 24	16 42 6	11°18'46"	3°57'	11°17'	1°15'	14° 2'	5°11'	21°R52'	4° 1'	9°34'	29°24'	10°55'	11° 7'	10°32'	20° 6'	S 24
M 25	16 46 3	12°16'06"	16°39'	13°29'	2°29'	14°36'	5°24'	21°52'	4° 1'	9°36'	29°24'	10°52'	11° 3'	10°38'	20°12'	M 25
T 26	16 49 59	13°13'26"	29° 0'	15°40'	3°42'	15° 9'	5°37'	21°52'	4° 1'	9°38'	29°24'	10°50'	11° 0'	10°45'	20°18'	T 26
W 27	16 53 56	14°10'45"	11°14'	17°52'	4°55'	15°43'	5°50'	21°52'	4° 0'	9°40'	29°24'	10°50'	10°57'	10°52'	20°25'	W 27
T 28	16 57 52	15° 8'03"	22°59'	20° 2'	6° 8'	16°17'	6° 3'	21°51'	4° 0'	9°42'	29°24'	10°50'	10°54'	10°58'	20°31'	T 28
F 29	17 1 49	16° 5'21"	4°17'	22°11'	7°21'	16°51'	6°16'	21°51'	4° 0'	9°44'	29°24'	10°49'	10°51'	11° 5'	20°37'	F 29
S 30	17 5 45	17° 2'39"	16°37'	24°20'	8°34'	17°25'	6°29'	21°50'	3°59'	9°45'	29°23'	10°46'	10°47'	11°12'	20°43'	S 30
S 31	17 9 42	17°11'59'57"	28°17'30"	26°11'26"	9°54'7"	17°15'9"	6°54'2"	21°49'49"	3°59'49"	9°47'49"	29°23'49"	10°41'49"	10°44'49"	11°17'49"	20°50'50"	S 31

Delta T = 176.98 sec

Julian Calendar 1 May 1551 == Greg. Calendar 11 May 1551

JUNE 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	17 13 39	18°11'57"13	10°33'	28°11'31"	11°52' 0"	18°13'34"	6°55'	21°R49'	3°R59'	9°R49'	29°R23'	10°R33'	10°41'	11°V25'	20°56'	M 1
T 2	17 17 35	19°54'30"	22°48'	0°35'	12°13'	19° 8'	7° 8'	21°48'	3°D59'	9°51'	29°23'	10°11'22"	10°38'	11°32'	21° 2'	T 2
W 3	17 21 32	20°51'46"	5°11'16"	2°36'	13°26'	19°42'	7°22'	21°47'	3°D59'	9°53'	29°22'	10°10'	10°35'	11°38'	21° 9'	W 3
T 4	17 25 28	21°49'02"	17°59'	4°36'	14°39'	20°17'	7°35'	21°46'	3°59'	9°55'	29°22'	9°58'	10°32'	11°45'	21°15'	T 4
F 5	17 29 25	22°46'18"	0°35'56"	6°33'	15°52'	20°51'	7°48'	21°45'	3°59'	9°56'	29°22'	9°45'	10°28'	11°52'	21°22'	F 5
S 6	17 33 21	23°43'33"	14° 7'	8°29'	17° 5'	21°26'	8° 1'	21°43'	3°59'	9°58'	29°21'	9°35'	10°25'	11°58'	21°28'	S 6
S 7	17 37 18	24°40'47"	27°30'	10°22'	18°18'	22° 1'	8°15'	21°42'	4° 0'	10° 0'	29°21'	9°27'	10°22'	12° 5'	21°35'	S 7
M 8	17 41 14	25°38'01"	11°16' 3"	12°13'	19°30'	22°35'	8°28'	21°41'	4° 0'	10° 2'	29°21'	9°22'	10°19'	12°12'	21°42'	M 8
T 9	17 45 11	26°35'15"	24°45'	14° 2'	20°43'	23°10'	8°41'	21°39'	4° 0'	10° 3'	29°20'	9°19'	10°16'	12°18'	21°48'	T 9
W 10	17 49 8	27°32'28"	8°17'36"	15°49'	21°56'	23°45'	8°55'	21°37'	4° 1'	10° 5'	29°20'	9°D18'	10°13'	12°25'	21°55'	W 10
T 11	17 53 4	28°29'40"	22°36'	17°33'	23° 9'	24°20'	9° 8'	21°36'	4° 1'	10° 7'	29°19'	9°R18'	10° 9'	12°32'	22° 2'	T 11
F 12	17 57 1	29°26'52"	6°42'26"	19°16'	24°22'	24°55'	9°21'	21°34'	4° 2'	10° 8'	29°19'	9°18'	10° 6'	12°38'	22° 9'	F 12
S 13	18 0 57	0°24'20'03"	20°56'	20°56'	25°34'	25°30'	9°35'	21°32'	4° 2'	10°10'	29°18'	9°17'	10° 3'	12°45'	22°15'	S 13
S 14	18 4 54	1°21'13"	5°11'14"	22°33'	26°47'	26° 5'	9°48'	21°30'	4° 3'	10°11'	29°18'	9°13'	10° 0'	12°52'	22°22'	S 14
M 15	18 8 50	2°18'24"	19°35'	24° 9'	28° 0'	26°40'	10° 2'	21°28'	4° 3'	10°13'	29°17'	9° 7'	9°57'	12°58'	22°29'	M 15
T 16	18 12 47	3°15'34"	3°15'52"	25°42'	29°12'	27°16'	10°15'	21°26'	4° 4'	10°14'	29°16'	8°58'	9°53'	13° 5'	22°36'	T 16
W 17	18 16 43	4°12'44"	18° 2'	27°13'	0°12'25"	27°51'	10°29'	21°23'	4° 5'	10°16'	29°16'	8°49'	9°50'	13°12'	22°43'	W 17
T 18	18 20 40	5° 9'54"	1°35'59"	28°42'	1°38'	28°26'	10°42'	21°21'	4° 6'	10°17'	29°15'	8°39'	9°47'	13°18'	22°50'	T 18
F 19	18 24 37	6° 7'04"	15°39'	0°12' 8"	2°50'	29° 2'	10°55'	21°19'	4° 6'	10°19'	29°15'	8°29'	9°44'	13°25'	22°57'	F 19
S 20	18 28 33	7° 4'14"	28°59'	1°32'	4° 3'	29°37'	11° 9'	21°16'	4° 7'	10°20'	29°14'	8°22'	9°41'	13°32'	23° 4'	S 20
S 21	18 32 30	8° 1'24"	11°55'57"	2°54'	5°15'	0°17'13"	11°22'	21°14'	4° 8'	10°22'	29°13'	8°17'	9°38'	13°38'	23°11'	S 21
M 22	18 36 26	8°58'34"	24°35'	4°13'	6°28'	0°49'	11°36'	21°11'	4° 9'	10°23'	29°13'	8°14'	9°34'	13°45'	23°18'	M 22
T 23	18 40 23	9°55'45"	6°15'54"	5°30'	7°40'	1°24'	11°49'	21° 8'	4°10'	10°24'	29°12'	8°D13'	9°31'	13°52'	23°25'	T 23
W 24	18 44 19	10°52'56"	18°59'	6°44'	8°52'	2° 0'	12° 3'	21° 5'	4°11'	10°26'	29°11'	8°13'	9°28'	13°58'	23°32'	W 24
T 25	18 48 16	11°50'07"	0°17'54"	7°56'	10° 5'	2°36'	12°16'	21° 2'	4°13'	10°27'	29°10'	8°14'	9°25'	14° 5'	23°39'	T 25
F 26	18 52 12	12°47'19"	12°45'	9° 5'	11°17'	3°12'	12°30'	20°59'	4°14'	10°28'	29° 9'	8°R14'	9°22'	14°12'	23°46'	F 26
S 27	18 56 9	13°44'31"	24°36'	10°11'	12°29'	3°48'	12°43'	20°56'	4°15'	10°30'	29° 9'	8°14'	9°19'	14°18'	23°53'	S 27
S 28	19 0 6	14°41'44"	6°32'	11°15'	13°42'	4°24'	12°57'	20°53'	4°16'	10°31'	29° 8'	8°11'	9°15'	14°25'	24° 0'	S 28
M 29	19 4 2	15°38'58"	18°38'	12°16'	14°54'	5° 0'	13°10'	20°50'	4°18'	10°32'	29° 7'	8° 7'	9°12'	14°32'	24° 7'	M 29
T 30	19 7 59	16°36'12"	0°11'59"	13°13'	16°16'	5°17'36"	13°52'24"	20°47'49"	4°19'49"	10°33'49"	29°6'49"	8°17'49"	9°17'49"	14°17'38"	24°14'14"	T 30

Delta T = 176.79 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1551
geocentric

JULY 1551 JC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	19 11 55	17°33'26	13°37	14°8	17°18	6°12	13°37	20°R44	4°21	10°34	29°R 5	7°R52	9°6	14°Y45	24°22	W 1
T 2	19 15 52	18°30'42	26°32	14°59	18°31	6°49	13°51	20°40	4°22	10°35	29°4	7°44	9°3	14°52	24°29	T 2
F 3	19 19 48	19°27'58	9°47	15°47	19°43	7°25	14°4	20°37	4°24	10°36	29°3	7°36	8°59	14°58	24°36	F 3
S 4	19 23 45	20°25'14	23°18	16°32	20°55	8°2	14°17	20°33	4°25	10°38	29°2	7°29	8°56	15°5	24°43	S 4
S 5	19 27 41	21°22'31	7°5	17°13	22°7	8°38	14°31	20°30	4°27	10°39	29°2	7°23	8°53	15°12	24°50	S 5
M 6	19 31 38	22°19'49	21°2	17°50	23°19	9°15	14°44	20°26	4°29	10°40	29°1	7°20	8°50	15°18	24°58	M 6
T 7	19 35 35	23°17'06	5°8	18°23	24°31	9°51	14°58	20°22	4°30	10°40	29°0	7°D19	8°47	15°25	25°5	T 7
W 8	19 39 31	24°14'25	19°19	18°52	25°43	10°28	15°11	20°18	4°32	10°41	28°59	7°20	8°44	15°32	25°12	W 8
T 9	19 43 28	25°11'43	3°32	19°17	26°55	11°5	15°24	20°15	4°34	10°42	28°58	7°21	8°40	15°38	25°19	T 9
F 10	19 47 24	26°9'02	17°44	19°37	28°7	11°41	15°38	20°11	4°36	10°43	28°57	7°22	8°37	15°45	25°26	F 10
S 11	19 51 21	27°6'21	1°55	19°53	29°18	12°18	15°51	20°7	4°38	10°44	28°55	7°R22	8°34	15°52	25°34	S 11
S 12	19 55 17	28°3'41	16°2	20°3	0°30	12°55	16°4	20°3	4°40	10°45	28°54	7°21	8°31	15°58	25°41	S 12
M13	19 59 14	29°1'01	0°3	20°9	1°42	13°32	16°18	19°59	4°42	10°46	28°53	7°18	8°28	16°5	25°48	M13
T 14	20 3 10	29°58'22	13°56	20°R10	2°54	14°9	16°31	19°55	4°44	10°46	28°52	7°13	8°24	16°12	25°55	T 14
W15	20 7 7	0°55'44	27°40	20°6	4°5	14°46	16°44	19°51	4°46	10°47	28°51	7°8	8°21	16°18	26°2	W15
T 16	20 11 4	1°53'06	11°3	19°57	5°17	15°23	16°58	19°46	4°48	10°48	28°50	7°2	8°18	16°25	26°10	T 16
F 17	20 15 0	2°50'29	24°27	19°42	6°29	16°1	17°11	19°42	4°50	10°48	28°49	6°57	8°15	16°32	26°17	F 17
S 18	20 18 57	3°47'52	7°27	19°23	7°40	16°38	17°24	19°38	4°53	10°49	28°48	6°53	8°12	16°38	26°24	S 18
S 19	20 22 53	4°45'17	20°11	18°58	8°52	17°15	17°37	19°34	4°55	10°49	28°47	6°50	8°9	16°45	26°31	S 19
M20	20 26 50	5°42'43	2°40	18°29	10°3	17°53	17°50	19°29	4°57	10°50	28°46	6°D49	8°5	16°52	26°38	M20
T 21	20 30 46	6°40'10	14°54	17°55	11°14	18°30	18°3	19°25	5°0	10°51	28°44	6°49	8°2	16°58	26°46	T 21
W22	20 34 43	7°37'38	26°56	17°17	12°26	19°7	18°16	19°21	5°2	10°51	28°43	6°50	7°59	17°5	26°53	W22
T 23	20 38 39	8°35'07	8°Y50	16°35	13°37	19°45	18°29	19°16	5°4	10°51	28°42	6°52	7°56	17°12	27°0	T 23
F 24	20 42 36	9°32'37	20°41	15°51	14°48	20°23	18°42	19°12	5°7	10°52	28°41	6°54	7°53	17°18	27°7	F 24
S 25	20 46 33	10°30'09	2°32	15°4	15°59	21°0	18°55	19°8	5°9	10°52	28°40	6°55	7°50	17°25	27°14	S 25
S 26	20 50 29	11°27'43	14°29	14°16	17°10	21°38	19°8	19°3	5°12	10°53	28°38	6°R55	7°46	17°32	27°21	S 26
M27	20 54 26	12°25'17	26°36	13°27	18°22	22°16	19°21	18°59	5°15	10°53	28°37	6°54	7°43	17°38	27°28	M27
T 28	20 58 22	13°22'54	8°57	12°38	19°33	22°54	19°34	18°54	5°17	10°53	28°36	6°52	7°40	17°45	27°36	T 28
W29	21 2 19	14°20'32	21°38	11°51	20°44	23°32	19°47	18°50	5°20	10°53	28°35	6°50	7°37	17°52	27°43	W29
T 30	21 6 15	15°18'11	4°40	11°5	21°55	24°9	20°0	18°45	5°23	10°54	28°34	6°47	7°34	17°59	27°50	T 30
F 31	21 10 12	16°15'52	18°4	10°23	23°5	24°48	20°12	18°41	5°25	10°54	28°32	6°44	7°30	18°Y5	27°57	F 31

Delta T = 176.61 sec Julian Calendar 1 July 1551 == Greg. Calendar 11 July 1551

AUGUST 1551 JC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 14 8	17°13'34	1°50	9°R45	24°16	25°26	20°25	18°R36	5°28	10°54	28°R31	6°R41	7°27	18°Y12	28°4	S 1
S 2	21 18 5	18°11'17	15°56	9°11	25°27	26°4	20°38	18°32	5°31	10°54	28°30	6°39	7°24	18°19	28°11	S 2
M 3	21 22 2	19°9'02	0°18	8°43	26°38	26°42	20°50	18°27	5°34	10°54	28°29	6°D38	7°21	18°25	28°18	M 3
T 4	21 25 58	20°6'48	14°50	8°21	27°48	27°20	21°3	18°23	5°37	10°54	28°27	6°39	7°18	18°32	28°25	T 4
W 5	21 29 55	21°4'36	29°26	8°6	28°59	27°59	21°15	18°18	5°40	10°R54	28°26	6°39	7°15	18°39	28°32	W 5
T 6	21 33 51	22°2'25	14°1	7°58	0°10	28°37	21°28	18°14	5°43	10°54	28°25	6°40	7°11	18°45	28°38	T 6
F 7	21 37 48	23°0'14	28°30	7°D58	1°20	29°15	21°40	18°9	5°46	10°54	28°23	6°41	7°8	18°52	28°45	F 7
S 8	21 41 44	23°58'05	12°49	8°5	2°30	29°54	21°52	18°5	5°49	10°54	28°22	6°42	7°5	18°59	28°52	S 8
S 9	21 45 41	24°55'58	26°54	8°20	3°41	0°32	22°5	18°0	5°52	10°54	28°21	6°R42	7°2	19°5	28°59	S 9
M10	21 49 37	25°53'51	10°46	8°43	4°51	1°11	22°17	17°56	5°55	10°54	28°20	6°42	6°59	19°12	29°6	M10
T 11	21 53 34	26°51'46	24°23	9°14	6°1	1°50	22°29	17°51	5°58	10°54	28°18	6°41	6°56	19°19	29°13	T 11
W12	21 57 31	27°49'42	7°34	9°53	7°11	2°28	22°41	17°47	6°1	10°54	28°17	6°40	6°52	19°25	29°19	W12
T 13	22 1 27	28°47'40	20°51	10°39	8°21	3°7	22°53	17°42	6°4	10°53	28°16	6°39	6°49	19°32	29°26	T 13
F 14	22 5 24	29°45'39	3°44	11°33	9°31	3°46	23°5	17°38	6°7	10°53	28°14	6°38	6°46	19°39	29°33	F 14
S 15	22 9 20	0°43'39	16°24	12°34	10°41	4°25	23°17	17°34	6°11	10°53	28°13	6°38	6°43	19°45	29°39	S 15
S 16	22 13 17	1°41'41	28°51	13°42	11°51	5°4	23°29	17°29	6°14	10°52	28°12	6°37	6°40	19°52	29°46	S 16
M17	22 17 13	2°39'44	11°6	14°56	13°1	5°43	23°41	17°25	6°17	10°52	28°11	6°D37	6°36	19°59	29°52	M17
T 18	22 21 10	3°37'50	23°12	16°16	14°11	6°22	23°53	17°21	6°21	10°52	28°9	6°37	6°33	20°5	29°59	T 18
W19	22 25 6	4°35'57	5°Y9	17°41	15°20	7°1	24°4	17°17	6°24	10°51	28°8	6°38	6°30	20°12	0°5	W19
T 20	22 29 3	5°34'05	17°1	19°11	16°30	7°40	24°16	17°12	6°27	10°51	28°7	6°38	6°27	20°19	0°12	T 20
F 21	22 32 59	6°32'16	28°51	20°46	17°39	8°19	24°28	17°8	6°31	10°50	28°6	6°R38	6°24	20°25	0°18	F 21
S 22	22 36 56	7°30'29	10°42	22°25	18°48	8°59	24°39	17°4	6°34	10°50	28°4	6°38	6°21	20°32	0°25	S 22
S 23	22 40 53	8°28'44	22°38	24°7	19°58	9°38	24°50	17°0	6°37	10°49	28°3	6°38	6°17	20°39	0°31	S 23
M24	22 44 49	9°27'01	4°43	25°51	21°7	10°17	25°2	16°56	6°41	10°48	28°2	6°D38	6°14	20°46	0°37	M24
T 25	22 48 46	10°25'20	17°3	27°39	22°16	10°57	25°13	16°52	6°44	10°48	28°0	6°38	6°11	20°52	0°43	T 25
W26	22 52 42	11°23'41	29°40	29°28	23°25	11°36	25°24	16°48	6°48	10°47	27°59	6°38	6°8	20°59	0°50	W26
T 27	22 56 39	12°22'04	12°40	1°19	24°34	12°16	25°35	16°44	6°51	10°46	27°58	6°38	6°5	21°6	0°56	T 27
F 28	23 0 35	13°20'30	26°4	3°11	25°42	12°56	25°46	16°41	6°55	10°46	27°57	6°39	6°2	21°12	1°2	F 28
S 29	23 4 32	14°18'57	9°54	5°3	26°51	13°35	25°57	16°37	6°58	10°45	27°56	6°39	5°58	21°19	1°8	S 29
S 30	23 8 28	15°17'27	24°10	6°56	28°0	14°15	26°8	16°33	7°2	10°44	27°54	6°40	5°55	21°26	1°14	S 30
M31	23 12 25	16°15'58	8°46	8°50	29°8	14°55	26°19	16°30	7°6	10°43	27°53	6°R40	5°52	21°Y32	1°20	M31

Delta T = 176.43 sec Julian Calendar

ASTRODIENST EPHEMERIS for the year 1551

geocentric

SEPTEMBER 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 16 22	17 ¹⁷ 14'32	23 ¹⁷ 39	10 ¹⁷ 43	0 ¹⁷ 17	15 ¹⁵ 35	26 ²⁶ 30	16 ¹⁶ R26	7 ⁷ 9	10 ¹⁰ R43	27 ²⁷ R52	6 ⁶ R40	5 ⁵ 49	21 ²¹ Y39	1 ¹ 26	T 1
W 2	23 20 18	18 ¹⁸ 13'07	8 ⁸ 39	12 ¹² 36	1 ¹ 25	16 ¹⁶ 15	26 ²⁶ 40	16 ¹⁶ 22	7 ⁷ 13	10 ¹⁰ 42	27 ²⁷ 51	6 ⁶ 39	5 ⁵ 46	21 ²¹ 46	1 ¹ 31	W 2
T 3	23 24 15	19 ¹⁹ 11'44	23 ²³ 39	14 ¹⁴ 29	2 ² 33	16 ¹⁶ 55	26 ²⁶ 51	16 ¹⁶ 19	7 ⁷ 16	10 ¹⁰ 41	27 ²⁷ 50	6 ⁶ 38	5 ⁵ 42	21 ²¹ 52	1 ¹ 37	T 3
F 4	23 28 11	20 ²⁰ 10'23	8 ⁸ 11	16 ¹⁶ 21	3 ³ 41	17 ¹⁷ 35	27 ²⁷ 1	16 ¹⁶ 16	7 ⁷ 20	10 ¹⁰ 40	27 ²⁷ 48	6 ⁶ 36	5 ⁵ 39	21 ²¹ 59	1 ¹ 43	F 4
S 5	23 32 8	21 ²¹ 9'04	23 ²³ 4	18 ¹⁸ 13	4 ⁴ 49	18 ¹⁸ 15	27 ²⁷ 11	16 ¹⁶ 12	7 ⁷ 24	10 ¹⁰ 39	27 ²⁷ 47	6 ⁶ 34	5 ⁵ 36	22 ²² 6	1 ¹ 49	S 5
S 6	23 36 4	22 ²² 7'46	7 ⁷ 19	20 ²⁰ 4	5 ⁵ 57	18 ¹⁸ 55	27 ²⁷ 21	16 ¹⁶ 9	7 ⁷ 27	10 ¹⁰ 38	27 ²⁷ 46	6 ⁶ 33	5 ⁵ 33	22 ²² 12	1 ¹ 54	S 6
M 7	23 40 1	23 ²³ 6'30	21 ²¹ 12	21 ²¹ 54	7 ⁷ 5	19 ¹⁹ 35	27 ²⁷ 32	16 ¹⁶ 6	7 ⁷ 31	10 ¹⁰ 37	27 ²⁷ 45	6 ⁶ D33	5 ⁵ 30	22 ²² 19	2 ² 0	M 7
T 8	23 43 57	24 ²⁴ 5'16	4 ⁴ 32	23 ²³ 43	8 ⁸ 12	20 ²⁰ 16	27 ²⁷ 42	16 ¹⁶ 3	7 ⁷ 35	10 ¹⁰ 36	27 ²⁷ 44	6 ⁶ 33	5 ⁵ 27	22 ²² 26	2 ² 5	T 8
W 9	23 47 54	25 ²⁵ 4'03	17 ¹⁷ 52	25 ²⁵ 32	9 ⁹ 20	20 ²⁰ 56	27 ²⁷ 51	16 ¹⁶ 0	7 ⁷ 39	10 ¹⁰ 35	27 ²⁷ 43	6 ⁶ 34	5 ⁵ 23	22 ²² 33	2 ² 11	W 9
T 10	23 51 51	26 ²⁶ 2'53	0 ⁰ 33	27 ²⁷ 19	10 ¹⁰ 27	21 ²¹ 37	28 ²⁸ 1	15 ¹⁵ 57	7 ⁷ 42	10 ¹⁰ 34	27 ²⁷ 42	6 ⁶ 35	5 ⁵ 20	22 ²² 39	2 ² 16	T 10
F 11	23 55 47	27 ²⁷ 1'44	13 ¹³ 17	29 ²⁹ 6	11 ¹¹ 34	22 ²² 17	28 ²⁸ 11	15 ¹⁵ 54	7 ⁷ 46	10 ¹⁰ 33	27 ²⁷ 40	6 ⁶ 37	5 ⁵ 17	22 ²² 46	2 ² 21	F 11
S 12	23 59 44	28 ²⁸ 0'36	25 ²⁵ 39	0 ⁰ 52	12 ¹² 41	22 ²² 58	28 ²⁸ 21	15 ¹⁵ 51	7 ⁷ 50	10 ¹⁰ 32	27 ²⁷ 39	6 ⁶ 38	5 ⁵ 14	22 ²² 53	2 ² 27	S 12
S 13	0 3 40	28 ²⁸ 59'31	7 ⁷ 51	2 ² 37	13 ¹³ 48	23 ²³ 38	28 ²⁸ 30	15 ¹⁵ 49	7 ⁷ 53	10 ¹⁰ 30	27 ²⁷ 38	6 ⁶ R38	5 ⁵ 11	22 ²² 59	2 ² 32	S 13
M14	0 7 37	29 ²⁹ 58'28	19 ¹⁹ 54	4 ⁴ 21	14 ¹⁴ 55	24 ²⁴ 19	28 ²⁸ 39	15 ¹⁵ 46	7 ⁷ 57	10 ¹⁰ 29	27 ²⁷ 37	6 ⁶ 38	5 ⁵ 7	23 ²³ 6	2 ² 37	M14
T 15	0 11 33	0 ⁰ 57'26	1 ¹ Y51	6 ⁶ 4	16 ¹⁶ 1	24 ²⁴ 59	28 ²⁸ 49	15 ¹⁵ 44	8 ⁸ 1	10 ¹⁰ 28	27 ²⁷ 36	6 ⁶ 36	5 ⁵ 4	23 ²³ 13	2 ² 42	T 15
W16	0 15 30	1 ¹ 56'27	13 ¹³ 44	7 ⁷ 46	17 ¹⁷ 8	25 ²⁵ 40	28 ²⁸ 58	15 ¹⁵ 41	8 ⁸ 5	10 ¹⁰ 27	27 ²⁷ 35	6 ⁶ 33	5 ⁵ 1	23 ²³ 19	2 ² 47	W16
T 17	0 19 26	2 ² 55'29	25 ²⁵ 35	9 ⁹ 27	18 ¹⁸ 14	26 ²⁶ 21	29 ²⁹ 7	15 ¹⁵ 39	8 ⁸ 8	10 ¹⁰ 26	27 ²⁷ 34	6 ⁶ 29	4 ⁴ 58	23 ²³ 26	2 ² 52	T 17
F 18	0 23 23	3 ³ 54'34	7 ⁷ 825	11 ¹¹ 8	19 ¹⁹ 20	27 ²⁷ 2	29 ²⁹ 16	15 ¹⁵ 37	8 ⁸ 12	10 ¹⁰ 24	27 ²⁷ 33	6 ⁶ 24	4 ⁴ 55	23 ²³ 33	2 ² 56	F 18
S 19	0 27 19	4 ⁴ 53'41	19 ¹⁹ 17	12 ¹² 48	20 ²⁰ 26	27 ²⁷ 43	29 ²⁹ 25	15 ¹⁵ 34	8 ⁸ 16	10 ¹⁰ 23	27 ²⁷ 32	6 ⁶ 19	4 ⁴ 52	23 ²³ 39	3 ³ 1	S 19
S 20	0 31 16	5 ⁵ 52'51	1 ¹ II14	14 ¹⁴ 27	21 ²¹ 32	28 ²⁸ 24	29 ²⁹ 33	15 ¹⁵ 32	8 ⁸ 20	10 ¹⁰ 22	27 ²⁷ 31	6 ⁶ 14	4 ⁴ 48	23 ²³ 46	3 ³ 6	S 20
M21	0 35 13	6 ⁶ 52'02	13 ¹³ 20	16 ¹⁶ 5	22 ²² 37	29 ²⁹ 5	29 ²⁹ 42	15 ¹⁵ 30	8 ⁸ 24	10 ¹⁰ 20	27 ²⁷ 30	6 ⁶ 11	4 ⁴ 45	23 ²³ 53	3 ³ 10	M21
T 22	0 39 9	7 ⁷ 51'16	25 ²⁵ 37	17 ¹⁷ 42	23 ²³ 43	29 ²⁹ 46	29 ²⁹ 50	15 ¹⁵ 28	8 ⁸ 27	10 ¹⁰ 19	27 ²⁷ 29	6 ⁶ 9	4 ⁴ 42	23 ²³ 59	3 ³ 15	T 22
W23	0 43 6	8 ⁸ 50'33	8 ⁸ 210	19 ¹⁹ 18	24 ²⁴ 48	0 ⁰ 127	29 ²⁹ 59	15 ¹⁵ 27	8 ⁸ 31	10 ¹⁰ 18	27 ²⁷ 28	6 ⁶ D 8	4 ⁴ 39	24 ²⁴ 6	3 ³ 19	W23
T 24	0 47 2	9 ⁹ 49'52	21 ²¹ 3	20 ²⁰ 54	25 ²⁵ 53	1 ¹ 8	0 ⁰ 12 7	15 ¹⁵ 25	8 ⁸ 35	10 ¹⁰ 16	27 ²⁷ 28	6 ⁶ 8	4 ⁴ 36	24 ²⁴ 13	3 ³ 24	T 24
F 25	0 50 59	10 ¹⁰ 49'13	4 ⁴ 19	22 ²² 29	26 ²⁶ 58	1 ¹ 50	0 ⁰ 15	15 ¹⁵ 23	8 ⁸ 39	10 ¹⁰ 15	27 ²⁷ 27	6 ⁶ 10	4 ⁴ 33	24 ²⁴ 20	3 ³ 28	F 25
S 26	0 54 55	11 ¹¹ 48'36	18 ¹⁸ 2	24 ²⁴ 4	28 ²⁸ 2	2 ² 31	0 ⁰ 23	15 ¹⁵ 22	8 ⁸ 42	10 ¹⁰ 13	27 ²⁷ 26	6 ⁶ 11	4 ⁴ 29	24 ²⁴ 26	3 ³ 32	S 26
S 27	0 58 52	12 ¹² 48'02	2 ² 13	25 ²⁵ 37	29 ²⁹ 7	3 ³ 13	0 ⁰ 30	15 ¹⁵ 20	8 ⁸ 46	10 ¹⁰ 12	27 ²⁷ 25	6 ⁶ R12	4 ⁴ 26	24 ²⁴ 33	3 ³ 37	S 27
M28	1 2 48	13 ¹³ 47'29	16 ¹⁶ 50	27 ²⁷ 10	0 ⁰ 11	3 ³ 54	0 ⁰ 38	15 ¹⁵ 19	8 ⁸ 50	10 ¹⁰ 11	27 ²⁷ 24	6 ⁶ 12	4 ⁴ 23	24 ²⁴ 40	3 ³ 41	M28
T 29	1 6 45	14 ¹⁴ 46'59	1 ¹ 48	28 ²⁸ 42	1 ¹ 15	4 ⁴ 36	0 ⁰ 46	15 ¹⁵ 18	8 ⁸ 54	10 ¹⁰ 9	27 ²⁷ 23	6 ⁶ 10	4 ⁴ 20	24 ²⁴ 46	3 ³ 45	T 29
W30	1 10 42	15 ¹⁵ 46'32	17 ¹⁷ 1	0 ⁰ 14	2 ² 18	5 ⁵ 117	0 ⁰ 53	15 ¹⁵ 17	8 ⁸ 58	10 ¹⁰ 8	27 ²⁷ 23	6 ⁶ 11	4 ⁴ 17	24 ²⁴ Y53	3 ³ 48	W30

Delta T = 176.25 sec

Julian Calendar 1 Sept. 1551 == Greg. Calendar 11 Sept. 1551

OCTOBER 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 14 38	16 ¹⁶ 46'06	2 ² 17	1 ¹ 145	3 ³ 22	5 ⁵ 159	1 ¹ 0	15 ¹⁵ R16	9 ⁹ 1	10 ¹⁰ R 6	27 ²⁷ R22	6 ⁶ R 0	4 ⁴ 13	25 ²⁵ Y 0	3 ³ 52	T 1
F 2	1 18 35	17 ¹⁷ 45'42	17 ¹⁷ 27	3 ³ 15	4 ⁴ 25	6 ⁶ 41	1 ¹ 7	15 ¹⁵ 15	9 ⁹ 5	10 ¹⁰ 5	27 ²⁷ 21	5 ⁵ 14	4 ⁴ 10	25 ²⁵ 6	3 ³ 56	F 2
S 3	1 22 31	18 ¹⁸ 45'20	2 ² 20	4 ⁴ 45	5 ⁵ 28	7 ⁷ 22	1 ¹ 14	15 ¹⁵ 14	9 ⁹ 9	10 ¹⁰ 3	27 ²⁷ 20	5 ⁵ 47	4 ⁴ 7	25 ²⁵ 13	4 ⁴ 0	S 3
S 4	1 26 28	19 ¹⁹ 45'00	16 ¹⁶ 50	6 ⁶ 13	6 ⁶ 30	8 ⁸ 4	1 ¹ 21	15 ¹⁵ 13	9 ⁹ 13	10 ¹⁰ 1	27 ²⁷ 20	5 ⁵ 42	4 ⁴ 4	25 ²⁵ 20	4 ⁴ 3	S 4
M 5	1 30 24	20 ²⁰ 44'42	0 ⁰ 352	7 ⁷ 42	7 ⁷ 33	8 ⁸ 46	1 ¹ 28	15 ¹⁵ 13	9 ⁹ 16	10 ¹⁰ 0	27 ²⁷ 19	5 ⁵ 38	4 ⁴ 1	25 ²⁵ 26	4 ⁴ 7	M 5
T 6	1 34 21	21 ²¹ 44'25	14 ¹⁴ 26	9 ⁹ 9	8 ⁸ 35	9 ⁹ 28	1 ¹ 34	15 ¹⁵ 12	9 ⁹ 20	9 ⁹ 58	27 ²⁷ 18	5 ⁵ 37	3 ³ 58	25 ²⁵ 33	4 ⁴ 10	T 6
W 7	1 38 17	22 ²² 44'10	27 ²⁷ 34	10 ¹⁰ 36	9 ⁹ 37	10 ¹⁰ 10	1 ¹ 41	15 ¹⁵ 12	9 ⁹ 24	9 ⁹ 57	27 ²⁷ 18	5 ⁵ D36	3 ³ 54	25 ²⁵ 40	4 ⁴ 13	W 7
T 8	1 42 14	23 ²³ 43'57	10 ¹⁰ 38	12 ¹² 2	10 ¹⁰ 38	10 ¹⁰ 52	1 ¹ 47	15 ¹⁵ 11	9 ⁹ 27	9 ⁹ 55	27 ²⁷ 17	5 ⁵ 37	3 ³ 51	25 ²⁵ 47	4 ⁴ 16	T 8
F 9	1 46 11	24 ²⁴ 43'46	22 ²² 44	13 ¹³ 27	11 ¹¹ 39	11 ¹¹ 34	1 ¹ 53	15 ¹⁵ 11	9 ⁹ 31	9 ⁹ 54	27 ²⁷ 17	5 ⁵ 39	3 ³ 48	25 ²⁵ 53	4 ⁴ 20	F 9
S 10	1 50 7	25 ²⁵ 43'36	4 ⁴ 55	14 ¹⁴ 52	12 ¹² 40	12 ¹² 16	1 ¹ 59	15 ¹⁵ 11	9 ⁹ 35	9 ⁹ 52	27 ²⁷ 16	5 ⁵ R39	3 ³ 45	26 ²⁶ 0	4 ⁴ 23	S 10
S 11	1 54 4	26 ²⁶ 43'28	16 ¹⁶ 56	16 ¹⁶ 16	13 ¹³ 40	12 ¹² 59	2 ² 4	15 ¹⁵ D11	9 ⁹ 38	9 ⁹ 50	27 ²⁷ 15	5 ⁵ 39	3 ³ 42	26 ²⁶ 7	4 ⁴ 25	S 11
M12	1 58 0	27 ²⁷ 43'22	28 ²⁸ 51	17 ¹⁷ 39	14 ¹⁴ 40	13 ¹³ 41	2 ² 10	15 ¹⁵ 11	9 ⁹ 42	9 ⁹ 49	27 ²⁷ 15	5 ⁵ 36	3 ³ 38	26 ²⁶ 13	4 ⁴ 28	M12
T 13	2 1 57	28 ²⁸ 43'17	10 ¹⁰ Y42	19 ¹⁹ 1	15 ¹⁵ 40	14 ¹⁴ 23	2 ² 15	15 ¹⁵ 11	9 ⁹ 46	9 ⁹ 47	27 ²⁷ 14	5 ⁵ 30	3 ³ 35	26 ²⁶ 20	4 ⁴ 31	T 13
W14	2 5 53	29 ²⁹ 43'14	22 ²² 32	20 ²⁰ 22	16 ¹⁶ 39	15 ¹⁵ 6	2 ² 21	15 ¹⁵ 12	9 ⁹ 49	9 ⁹ 45	27 ²⁷ 14	5 ⁵ 23	3 ³ 32	26 ²⁶ 27	4 ⁴ 34	W14
T 15	2 9 50	0 ⁰ 143'14	4 ⁴ 824	21 ²¹ 42	17 ¹⁷ 38	15 ¹⁵ 48	2 ² 26	15 ¹⁵ 12	9 ⁹ 53	9 ⁹ 44	27 ²⁷ 14	5 ⁵ 13	3 ³ 29	26 ²⁶ 33	4 ⁴ 36	T 15
F 16	2 13 46	1 ¹ 43'15	16 ¹⁶ 17	23 ²³ 1	18 ¹⁸ 36	16 ¹⁶ 31	2 ² 30	15 ¹⁵ 12	9 ⁹ 57	9 ⁹ 42	27 ²⁷ 13	5 ⁵ 2	3 ³ 26	26 ²⁶ 40	4 ⁴ 39	F 16
S 17	2 17 43	2 ² 43'18	28 ²⁸ 15	24 ²⁴ 18	19 ¹⁹ 34	17 ¹⁷ 13	2 ² 35	15 ¹⁵ 13	10 ¹⁰ 0	9 ⁹ 40	27 ²⁷ 13	4 ⁴ 50	3 ³ 23	26 ²⁶ 47	4 ⁴ 41	S 17
S 18	2 21 40	3 ³ 43'23	10 ¹⁰ II18	25 ²⁵ 35	20 ²⁰ 32	17 ¹⁷ 56	2 ² 40	15 ¹⁵ 14	10 ¹⁰ 4	9 ⁹ 39	27 ²⁷ 12	4 ⁴ 39	3 ³ 19	26 ²⁶ 53	4 ⁴ 43	S 18
M19	2 25 36	4 ⁴ 43'31	22 ²² 28	26 ²⁶ 50	21 ²¹ 29	18 ¹⁸ 39	2 ² 44	15 ¹⁵ 15	10 ¹⁰ 7	9 ⁹ 37	27 ²⁷ 12	4 ⁴ 30	3 ³ 16	27 ²⁷ 0	4 ⁴ 45	M19
T 20	2 29 33	5 ⁵ 43'40	4 ⁴ 848	28 ²⁸ 3	22 ²² 25	19 ¹⁹ 21	2 ² 48	15 ¹⁵ 15	10 ¹⁰ 11	9 ⁹ 35	27 ²⁷ 12	4 ⁴ 23	3 ³ 13	27 ²⁷ 7	4 ⁴ 47	T 20
W21	2 33 29	6 ⁶ 43'51	17 ¹⁷ 21	29 ²⁹ 14	23 ²³ 21	20 ²⁰ 4	2 ² 52	15 ¹⁵ 17	10 ¹⁰ 14	9 ⁹ 34	27 ²⁷ 11	4 ⁴ 19	3 ³ 10	27 ²⁷ 14	4 ⁴ 49	W21
T 22	2 37 26	7 ⁷ 44'05	0 ⁰ 120	0 ⁰ 24	24 ²⁴ 17	20 ²⁰ 47	2 ² 56	15 ¹⁵ 18	10 ¹⁰ 18	9 ⁹ 32	27 ²⁷ 11	4 ⁴ 17	3 ³ 7	27 ²⁷ 20	4 ⁴ 51	T 22
F 23	2 41 22	8 ⁸ 44'20	13 ¹³ 19	1 ¹ 31	25 ²⁵ 12	21 ²¹ 30	3 ³ 0	15 ¹⁵ 19	10 ¹⁰ 21	9 ⁹ 30	27 ²⁷ 11	4 ⁴ D17	3 ³ 4	27 ²⁷ 27	4 ⁴ 53	F 23
S 24	2 45 19	9 ⁹ 44'38	26 ²⁶ 51	2 ² 36	26 ²⁶ 6	22 ²² 13	3 ³ 3	15 ¹⁵ 20	10 ¹⁰ 25	9 ⁹ 29	27 ²⁷ 11	4 ⁴ R17	3 ³ 0	27 ²⁷ 34	4 ⁴ 55	S 24
S 25	2 49 15	10 ¹⁰ 44'57	10 ¹⁰ 148	3 ³ 37	27 ²⁷ 0	22 ²² 56	3 ³ 7	15 ¹⁵ 22	10 ¹⁰ 28	9 ⁹ 27	27 ²⁷ 10	4 ⁴ 17	2 ² 57	27 ²⁷ 40	4 ⁴ 56	S 25
M26	2 53 12	11 ¹¹ 45'19	25 ²⁵ 18	4 ⁴ 36	27 ²⁷ 53	23 ²³ 39	3 ³ 10	15 ¹⁵ 23	10 ¹⁰ 31	9 ⁹ 25	27 ²⁷ 10	4 ⁴ 16	2 ² 54	27 ²⁷ 47	4 ⁴ 58	M26
T 27	2 57 8	12 ¹² 45'42	10 ¹⁰ 10	5 ⁵ 31	28 ²⁸ 46	24 ²⁴ 22	3 ³ 13	15 ¹⁵ 25	10 ¹⁰ 35	9 ⁹ 23	27 ²⁷ 10	4 ⁴ 12	2 ² 51	27 ²⁷ 54	4 ⁴ 59	T 27
W28	3 1 5	13 ¹³ 46'07	25 ²⁵ 6	6 ⁶ 23	29 ²⁹ 37	25 ²⁵ 6	3 ³ 16	15 ¹⁵ 26	10 ¹⁰ 38	9 ⁹ 22	27 ²⁷ 10	4 ⁴ 5	2 ² 48	28 ²⁸ 0	5 ⁵ 0	W28
T 29	3 5 2	14 ¹⁴ 46'34	10 ¹⁰ 123	7 ⁷ 9	0 ⁰ 329	25 ²⁵ 49	3 ³ 18	15 ¹⁵ 28	10 ¹⁰ 41	9 ⁹ 20	27 ²⁷ 10	3 ³ 55	2 ² 44	28 ²⁸ 7	5 ⁵ 1	T 29
F 30	3 8 58	15 ¹⁵ 47'03	25 ²⁵ 37	7 ⁷ 51	1 ¹ 9	26 ²⁶ 32	3 ³ 21	15 ¹⁵ 30	10 ¹⁰ 45	9 ⁹ 18	27 ²⁷ 10	3 ³ 45	2 ² 41	28 ²⁸ 14	5 ⁵ 2	F 30
S 31	3 12 55	16 ¹⁶ 47'34	10 ¹⁰ 240	8 ⁸ 27	2 ² 39	27 ²⁷ 16	3 ³ 23	15 ¹⁵ 32	10 ¹⁰ 48	9 ⁹ 17	27 ²⁷ 10	3 ³ 34	2 ² 38	28 ²⁸ Y21	5 ⁵ 3	S 31

ASTRODIENST EPHEMERIS for the year 1551

geocentric

NOVEMBER 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 16 51	17♏48'06	25♏21	8♏57	2♏58	27♏59	3♏25	15♏34	10♏51	9♏15	27°D10	3°R24	2♏35	28♏27	5♏4	S 1
M 2	3 20 48	18°48'39	9♏33	9°19	3°46	28°43	3°27	15°37	10°54	9♏13	27°10	3♏16	2°32	28°34	5°5	M 2
T 3	3 24 44	19°49'14	23°16	9°34	4°33	29°26	3°28	15°39	10°58	9°12	27°10	3°11	2°29	28°41	5°5	T 3
W 4	3 28 41	20°49'49	6♏29	9°R40	5°19	0♏10	3°30	15°41	11°1	9°10	27°10	3°8	2°25	28°47	5°6	W 4
T 5	3 32 38	21°50'26	19°16	9°37	6°5	0°54	3°31	15°44	11°4	9°8	27°10	3°D8	2°22	28°54	5°6	T 5
F 6	3 36 34	22°51'05	1♏41	9°25	6°49	1°37	3°32	15°47	11°7	9°7	27°10	3°R8	2°19	29°1	5°7	F 6
S 7	3 40 31	23°51'44	13°49	9°1	7°33	2°21	3°33	15°49	11°10	9°5	27°10	3°7	2°16	29°7	5°7	S 7
S 8	3 44 27	24°52'24	25°47	8°27	8°15	3°5	3°33	15°52	11°13	9°4	27°10	3°6	2°13	29°14	5°R7	S 8
M 9	3 48 24	25°53'06	7♏38	7°42	8°56	3°49	3°34	15°55	11°16	9°2	27°10	3°1	2°10	29°21	5°7	M 9
T 10	3 52 20	26°53'49	19°27	6°47	9°36	4°33	3°34	15°58	11°19	9°0	27°11	2°54	2°6	29°28	5°7	T 10
W11	3 56 17	27°54'33	1♏17	5°43	10°15	5°17	3°R34	16°1	11°22	8°59	27°11	2°44	2°3	29°34	5°6	W11
T 12	4 0 13	28°55'18	13°11	4°31	10°53	6°1	3°34	16°4	11°25	8°57	27°11	2°31	2°0	29°41	5°6	T 12
F 13	4 4 10	29°56'04	25°11	3°12	11°29	6°45	3°34	16°8	11°27	8°56	27°11	2°17	1°57	29°48	5°6	F 13
S 14	4 8 6	0♏56'52	7♏17	1°51	12°4	7°29	3°33	16°11	11°30	8°54	27°12	2°2	1°54	29°54	5°5	S 14
S 15	4 12 3	1°57'41	19°31	0°28	12°37	8°13	3°32	16°14	11°33	8°53	27°12	1°47	1°50	0♏1	5°4	S 15
M16	4 16 0	2°58'31	1♏54	29♏7	13°9	8°57	3°32	16°18	11°36	8°51	27°12	1°35	1°47	0°8	5°4	M16
T 17	4 19 56	3°59'22	14°25	27°51	13°40	9°42	3°30	16°22	11°38	8°49	27°13	1°26	1°44	0°14	5°3	T 17
W18	4 23 53	5°0'15	2°7	26°43	14°9	10°26	3°29	16°25	11°41	8°48	27°13	1°19	1°41	0°21	5°2	W18
T 19	4 27 49	6°1'09	10♏2	25°43	14°36	11°11	3°28	16°29	11°44	8°47	27°14	1°16	1°38	0°28	5°1	T 19
F 20	4 31 46	7°2'04	23°11	24°53	15°2	11°55	3°26	16°33	11°46	8°45	27°14	1°14	1°35	0°35	5°0	F 20
S 21	4 35 42	8°3'01	6♏38	24°14	15°26	12°40	3°24	16°37	11°49	8°44	27°15	1°14	1°31	0°41	4°58	S 21
S 22	4 39 39	9°3'59	20°25	23°47	15°48	13°24	3°22	16°41	11°51	8°42	27°15	1°14	1°28	0°48	4°57	S 22
M23	4 43 36	10°4'58	4♏33	23°31	16°8	14°9	3°20	16°45	11°54	8°41	27°16	1°12	1°25	0°55	4°55	M23
T 24	4 47 32	11°5'58	19°1	23°D26	16°26	14°54	3°17	16°49	11°56	8°39	27°16	1°8	1°22	1°1	4°54	T 24
W25	4 51 29	12°7'00	3♏47	23°31	16°42	15°38	3°14	16°54	11°58	8°38	27°17	1°1	1°19	1°8	4°52	W25
T 26	4 55 25	13°8'02	18°45	23°46	16°56	16°23	3°11	16°58	12°1	8°37	27°17	0°51	1°16	1°15	4°50	T 26
F 27	4 59 22	14°9'06	3♏45	24°10	17°8	17°8	3°8	17°2	12°3	8°35	27°18	0°40	1°12	1°21	4°48	F 27
S 28	5 3 18	15°10'10	18°39	24°41	17°18	17°53	3°5	17°7	12°5	8°34	27°19	0°28	1°9	1°28	4°46	S 28
S 29	5 7 15	16°11'15	3♏16	25°19	17°26	18°38	3°2	17°12	12°7	8°33	27°19	0°18	1°6	1°35	4°44	S 29
M30	5 11 11	17°12'21	17♏30	26♏4	17♏31	19°23	2♏58	17°16	12°9	8♏32	27°20	0♏9	1♏3	1♏42	4♏42	M30

Delta T = 175.89 sec

Julian Calendar 1 Nov. 1551 == Greg. Calendar 11 Nov. 1551

DECEMBER 1551 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 15 8	18♏13'28	1♏17	26♏54	17♏33	20♏8	2°R54	17°21	12°11	8°R30	27°21	0°R3	1♏0	1♏48	4°R48	T 1
W 2	5 19 5	19°14'34	14°36	27°49	17°R34	20°53	2♏50	17°26	12°13	8♏29	27°22	29♏59	0°56	1°55	4♏30	W 2
T 3	5 23 1	20°15'41	27°28	28°48	17°32	21°38	2°46	17°31	12°15	8°28	27°22	29°D59	0°53	2°2	4°35	T 3
F 4	5 26 58	21°16'48	9♏57	29°51	17°27	22°23	2°42	17°36	12°17	8°27	27°23	29°59	0°50	2°8	4°33	F 4
S 5	5 30 54	22°17'56	22°9	0♏57	17°20	23°8	2°37	17°41	12°19	8°26	27°24	29°R59	0°47	2°15	4°30	S 5
S 6	5 34 51	23°19'04	4♏8	2°7	17°10	23°54	2°32	17°46	12°21	8°25	27°25	29°59	0°44	2°22	4°27	S 6
M 7	5 38 47	24°20'11	15°59	3°18	16°58	24°39	2°27	17°51	12°23	8°24	27°26	29°56	0°41	2°29	4°25	M 7
T 8	5 42 44	25°21'20	27°49	4°32	16°44	25°24	2°22	17°57	12°25	8°23	27°27	29°51	0°37	2°35	4°22	T 8
W 9	5 46 40	26°22'28	9♏41	5°48	16°26	26°10	2°17	18°2	12°26	8°22	27°28	29°43	0°34	2°42	4°19	W 9
T 10	5 50 37	27°23'36	21°38	7°6	16°7	26°55	2°12	18°7	12°28	8°21	27°29	29°33	0°31	2°49	4°16	T 10
F 11	5 54 34	28°24'45	3♏45	8°25	15°45	27°41	2°6	18°13	12°29	8°20	27°30	29°22	0°28	2°55	4°12	F 11
S 12	5 58 30	29°25'53	16°1	9°45	15°21	28°26	2°1	18°18	12°31	8°19	27°31	29°10	0°25	3°2	4°9	S 12
S 13	6 2 27	0♏27'02	28°29	11°7	14°55	29°12	1°55	18°24	12°32	8°18	27°32	28°59	0°21	3°9	4°6	S 13
M14	6 6 23	1°28'11	11♏8	12°30	14°27	29°57	1°49	18°30	12°34	8°17	27°33	28°49	0°18	3°15	4°3	M14
T 15	6 10 20	2°29'21	23°58	13°53	13°57	0♏43	1°43	18°35	12°35	8°16	27°34	28°41	0°15	3°22	3°59	T 15
W16	6 14 16	3°30'30	7♏0	15°18	13°25	1°29	1°37	18°41	12°36	8°15	27°35	28°36	0°12	3°29	3°56	W16
T 17	6 18 13	4°31'40	20°12	16°43	12°52	2°14	1°30	18°47	12°38	8°14	27°36	28°34	0°9	3°36	3°52	T 17
F 18	6 22 9	5°32'50	3♏35	18°9	12°18	3°0	1°24	18°53	12°39	8°14	27°37	28°D34	0°6	3°42	3°49	F 18
S 19	6 26 6	6°34'00	17°10	19°36	11°43	3°46	1°17	18°59	12°40	8°13	27°38	28°35	0°2	3°49	3°45	S 19
S 20	6 30 3	7°35'10	0♏58	21°4	11°7	4°32	1°10	19°5	12°41	8°12	27°39	28°R36	29♏59	3°56	3°41	S 20
M21	6 33 59	8°36'20	14°58	22°32	10°30	5°18	1°3	19°11	12°42	8°12	27°40	28°36	29°56	4°2	3°37	M21
T 22	6 37 56	9°37'31	29°11	24°0	9°54	6°4	0°56	19°17	12°43	8°11	27°42	28°34	29°53	4°9	3°33	T 22
W23	6 41 52	10°38'42	13♏35	25°30	9°17	6°50	0°49	19°23	12°44	8°10	27°43	28°30	29°50	4°16	3°29	W23
T 24	6 45 49	11°39'53	28°6	26°59	8°41	7°36	0°42	19°29	12°45	8°10	27°44	28°24	29°47	4°23	3°25	T 24
F 25	6 49 45	12°41'04	12♏38	28°29	8°5	8°22	0°35	19°36	12°46	8°9	27°45	28°17	29°43	4°29	3°21	F 25
S 26	6 53 42	13°42'15	27°6	0♏0	7°30	9°8	0°28	19°42	12°47	8°9	27°46	28°9	29°40	4°36	3°17	S 26
S 27	6 57 38	14°43'26	11♏23	1°31	6°55	9°54	0°20	19°48	12°47	8°8	27°48	28°2	29°37	4°43	3°13	S 27
M28	7 1 35	15°44'36	25°23	3°3	6°22	10°40	0°13	19°55	12°48	8°8	27°49	27°56	29°34	4°49	3°9	M28
T 29	7 5 32	16°45'46	9♏3	4°35	5°51	11°27	0°5	20°1	12°48	8°7	27°50	27°53	29°31	4°56	3°5	T 29
W30	7 9 28	17°46'55	22°19	6°8	5°21	12°13	29♏57	20°8	12°49	8°7	27°52	27°D51	29°28	5°3	3°0	W30
T 31	7 13 25	18♏48'04	5♏12	7♏41	4♏53	12♏59	29♏50	20°14	12°49	8♏7	27°53	27°L51	29°L24	5♏10	2♏56	T 31

Delta T = 175.71 sec

Julian Calendar