



Astrodienst Ephemeris Tables for the year 1553

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 1553

geocentric

JANUARY 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	7 20 20	20°35'13	18°34	22°349	12°35	21°R27	3°R57	1°H11	17°A31	10°R22	29°A13	8°R50	9°Ω58	16°II14	18°R30	S 1
M 2	7 24 17	21°36'18	13°49	24°30	13°19	21°R13	3°R53	1°17	17°32	10°R22	29°15	8°D49	9°55	16°21	18°R26	M 2
T 3	7 28 13	22°37'22	26°15	26°11	14°34	20°58	3°49	1°23	17°32	10°21	29°16	8°Ω50	9°52	16°28	18°22	T 3
W 4	7 32 10	23°38'26	8°M53	27°53	15°49	20°42	3°44	1°30	17°33	10°21	29°17	8°51	9°49	16°35	18°18	W 4
T 5	7 36 6	24°39'29	21°45	29°36	17° 4	20°26	3°40	1°36	17°33	10°21	29°19	8°53	9°45	16°41	18°14	T 5
F 6	7 40 3	25°40'32	4°A52	1°A19	18°19	20° 9	3°35	1°42	17°34	10°21	29°20	8°54	9°42	16°48	18°10	F 6
S 7	7 44 0	26°41'34	18°18	3° 2	19°33	19°51	3°30	1°49	17°34	10°21	29°22	8°55	9°39	16°55	18° 6	S 7
S 8	7 47 56	27°42'36	2°M 3	4°46	20°48	19°32	3°25	1°55	17°34	10°20	29°23	8°R55	9°36	17° 1	18° 2	S 8
M 9	7 51 53	28°43'38	16° 7	6°30	22° 3	19°13	3°19	2° 2	17°34	10°20	29°24	8°54	9°33	17° 8	17°58	M 9
T 10	7 55 49	29°44'39	0°A30	8°14	23°17	18°54	3°14	2° 8	17°34	10°20	29°26	8°53	9°30	17°15	17°53	T 10
W11	7 59 46	0°A45'39	15° 8	9°59	24°32	18°33	3° 8	2°15	17°35	10°D20	29°27	8°52	9°26	17°21	17°49	W11
T 12	8 3 42	1°46'39	29°57	11°44	25°47	18°13	3° 3	2°22	17°R35	10°20	29°29	8°51	9°23	17°28	17°45	T 12
F 13	8 7 39	2°47'38	14°B49	13°28	27° 1	17°51	2°57	2°28	17°35	10°20	29°30	8°51	9°20	17°35	17°40	F 13
S 14	8 11 35	3°48'36	29°37	15°12	28°16	17°29	2°51	2°35	17°34	10°20	29°32	8°50	9°17	17°41	17°36	S 14
S 15	8 15 32	4°49'33	14°A14	16°56	29°30	17° 7	2°45	2°42	17°34	10°21	29°33	8°D50	9°14	17°48	17°31	S 15
M16	8 19 29	5°50'29	28°32	18°40	0°H45	16°45	2°38	2°49	17°34	10°21	29°35	8°51	9°11	17°55	17°27	M16
T 17	8 23 25	6°51'23	12°H28	20°22	1°59	16°22	2°32	2°55	17°34	10°21	29°37	8°51	9° 7	18° 2	17°22	T 17
W18	8 27 22	7°52'16	25°58	22° 3	3°14	15°59	2°25	3° 2	17°34	10°21	29°38	8°51	9° 4	18° 8	17°18	W18
T 19	8 31 18	8°53'08	9°Y 4	23°43	4°28	15°35	2°19	3° 9	17°33	10°21	29°40	8°R51	9° 1	18°15	17°13	T 19
F 20	8 35 15	9°53'58	21°47	25°21	5°43	15°12	2°12	3°16	17°33	10°22	29°41	8°51	8°58	18°22	17° 9	F 20
S 21	8 39 11	10°54'47	4°B11	26°56	6°57	14°48	2° 5	3°23	17°32	10°22	29°43	8°51	8°55	18°28	17° 4	S 21
S 22	8 43 8	11°55'35	16°19	28°29	8°11	14°24	1°58	3°30	17°32	10°23	29°44	8°D51	8°51	18°35	16°59	S 22
M23	8 47 4	12°56'21	28°17	29°58	9°26	14° 0	1°51	3°37	17°31	10°23	29°46	8°51	8°48	18°42	16°55	M23
T 24	8 51 1	13°57'05	10°II 8	1°H23	10°40	13°36	1°44	3°44	17°30	10°23	29°48	8°51	8°45	18°48	16°50	T 24
W25	8 54 58	14°57'48	21°58	2°43	11°54	13°12	1°37	3°51	17°30	10°24	29°49	8°52	8°42	18°55	16°45	W25
T 26	8 58 54	15°58'29	3°B51	3°58	13° 8	12°48	1°30	3°58	17°29	10°24	29°51	8°53	8°39	19° 2	16°40	T 26
F 27	9 2 51	16°59'09	15°50	5° 6	14°22	12°24	1°22	4° 6	17°28	10°25	29°52	8°54	8°36	19° 8	16°36	F 27
S 28	9 6 47	17°59'47	27°57	6° 8	15°36	12° 1	1°15	4°13	17°27	10°26	29°54	8°54	8°32	19°15	16°31	S 28
S 29	9 10 44	19° 0'23	10°Ω17	7° 2	16°50	11°37	1° 7	4°20	17°27	10°26	29°56	8°R54	8°29	19°22	16°26	S 29
M30	9 14 40	20° 0'58	22°49	7°48	18° 4	11°14	1° 0	4°27	17°26	10°27	29°57	8°54	8°26	19°29	16°22	M30
T 31	9 18 37	21°A1'32	5°M35	8°H25	19°H18	10°Ω51	0°M52	4°H34	17°A25	10°R27	29°A59	8°Ω53	8°Ω23	19°II35	16°Ω17	T 31

Delta T = 173.38 sec

Julian Calendar 1 Jan. 1553 == Greg. Calendar 11 Jan. 1553

FEBRUARY 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	9 22 33	22°A2'04	18°M34	8°H52	20°H32	10°R29	0°R44	4°H41	17°R23	10°R28	0°H 1	8°R52	8°Ω20	19°II42	16°R12	W 1
T 2	9 26 30	23° 2'34	1°A48	9° 9	21°46	10°Ω 7	0°M37	4°49	17°A22	10°29	0° 2	8°Ω50	8°17	19°49	16°Ω 8	T 2
F 3	9 30 27	24° 3'03	15°14	9°R17	23° 0	9°45	0°29	4°56	17°21	10°30	0° 4	8°48	8°13	19°55	16° 3	F 3
S 4	9 34 23	25° 3'31	28°53	9°14	24°13	9°23	0°21	5° 3	17°20	10°31	0° 6	8°46	8°10	20° 2	15°58	S 4
S 5	9 38 20	26° 3'57	12°M43	9° 1	25°27	9° 3	0°13	5°11	17°19	10°31	0° 7	8°44	8° 7	20° 9	15°54	S 5
M 6	9 42 16	27° 4'23	26°44	8°38	26°41	8°42	0° 5	5°18	17°17	10°32	0° 9	8°D44	8° 4	20°15	15°49	M 6
T 7	9 46 13	28° 4'46	10°A54	8° 6	27°54	8°22	29°Ω57	5°25	17°16	10°33	0°11	8°44	8° 1	20°22	15°44	T 7
W 8	9 50 9	29° 5'09	25°12	7°26	29° 8	8° 3	29°50	5°32	17°15	10°34	0°12	8°45	7°57	20°29	15°40	W 8
T 9	9 54 6	0°H 5'30	9°B34	6°39	0°Y21	7°45	29°42	5°40	17°13	10°35	0°14	8°47	7°54	20°35	15°35	T 9
F 10	9 58 2	1° 5'50	23°57	5°45	1°35	7°27	29°34	5°47	17°12	10°36	0°16	8°48	7°51	20°42	15°31	F 10
S 11	10 1 59	2° 6'08	8°A18	4°46	2°48	7° 9	29°26	5°54	17°10	10°37	0°17	8°R49	7°48	20°49	15°27	S 11
S 12	10 5 56	3° 6'24	22°32	3°45	4° 1	6°53	29°18	6° 2	17° 9	10°38	0°19	8°48	7°45	20°55	15°22	S 12
M13	10 9 52	4° 6'38	6°H33	2°42	5°15	6°37	29°10	6° 9	17° 7	10°39	0°21	8°46	7°42	21° 2	15°18	M13
T 14	10 13 49	5° 6'51	20°18	1°38	6°28	6°21	29° 2	6°17	17° 5	10°40	0°22	8°43	7°38	21° 9	15°13	T 14
W15	10 17 45	6° 7'02	3°Y45	0°37	7°41	6° 7	28°55	6°24	17° 4	10°42	0°24	8°39	7°35	21°16	15° 9	W15
T 16	10 21 42	7° 7'10	16°50	29°A37	8°54	5°53	28°47	6°31	17° 2	10°43	0°26	8°34	7°32	21°22	15° 5	T 16
F 17	10 25 38	8° 7'17	29°36	28°42	10° 7	5°40	28°39	6°39	17° 0	10°44	0°27	8°29	7°29	21°29	15° 1	F 17
S 18	10 29 35	9° 7'22	12°B 2	27°51	11°20	5°28	28°31	6°46	16°58	10°45	0°29	8°26	7°26	21°36	14°57	S 18
S 19	10 33 31	10° 7'24	24°13	27° 6	12°33	5°16	28°24	6°53	16°57	10°47	0°30	8°23	7°22	21°42	14°53	S 19
M20	10 37 28	11° 7'25	6°II12	26°27	13°46	5° 6	28°16	7° 1	16°55	10°48	0°32	8°D22	7°19	21°49	14°49	M20
T 21	10 41 25	12° 7'23	18° 4	25°55	14°59	4°56	28° 9	7° 8	16°53	10°49	0°34	8°22	7°16	21°56	14°45	T 21
W22	10 45 21	13° 7'19	29°54	25°29	16°11	4°47	28° 1	7°15	16°51	10°51	0°35	8°23	7°13	22° 2	14°41	W22
T 23	10 49 18	14° 7'13	11°B47	25° 9	17°24	4°39	27°54	7°23	16°49	10°52	0°37	8°24	7°10	22° 9	14°37	T 23
F 24	10 53 14	15° 7'04	23°48	24°57	18°37	4°31	27°47	7°30	16°47	10°53	0°39	8°26	7° 7	22°16	14°34	F 24
S 25	10 57 11	16° 6'54	6°Ω 2	24°50	19°49	4°24	27°40	7°37	16°45	10°55	0°40	8°R27	7° 3	22°22	14°30	S 25
S 26	11 1 7	17° 6'41	18°30	24°D50	21° 1	4°19	27°32	7°45	16°43	10°56	0°42	8°27	7° 0	22°29	14°26	S 26
M27	11 5 4	18° 6'26	1°M17	24°56	22°14	4°13	27°25	7°52	16°40	10°58	0°43	8°24	6°57	22°36	14°23	M27
T 28	11 9 0	19°H 6'09	14°M22	25°A 8	23°Y26	4°Ω 9	27°Ω19	7°H59	16°A38	10°R59	0°H45	8°Ω20	6°Ω54	22°II42	14°Ω19	T 28

Delta T = 173.19 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1553

geocentric

MARCH 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	11 12 57	20°45'50"	27°46'46"	25°25'25"	24°47'38"	4°R 5	27°R12	8°H 6	16°R36	11°B 1	0°H47	8°R14	6°Ω51	22°II49	14°R16	W 1
T 2	11 16 53	21° 5'29"	11°12'27"	25°47'25"	25°50'40"	4°L 3	27°L 5	8°14	16°Ω34	11° 2	0°48	8°L 7	6°48	22°56	14°L13	T 2
F 3	11 20 50	22° 5'06"	25°20'22"	26°14'26"	27° 2'4	4° 1	26°58	8°21	16°32	11° 4	0°50	8° 0	6°44	23° 2	14°10	F 3
S 4	11 24 47	23° 4'41"	9°11'24"	26°46'28"	28°14'3	3°59	26°52	8°28	16°29	11° 6	0°51	7°53	6°41	23° 9	14° 7	S 4
S 5	11 28 43	24° 4'14"	23°33'27"	27°22'29"	29°26'3	3°D59	26°46	8°35	16°27	11° 7	0°53	7°48	6°38	23°16	14° 3	S 5
M 6	11 32 40	25° 3'46"	7°34'44"	28° 2'08"	30°38'3	3°59	26°39	8°42	16°25	11° 9	0°54	7°44	6°35	23°23	14° 1	M 6
T 7	11 36 36	26° 3'16"	21°54'21"	28°45'1	1°49'4	4° 0	26°33	8°50	16°22	11°11	0°56	7°D43	6°32	23°29	13°58	T 7
W 8	11 40 33	27° 2'44"	6°33'29"	29°33'3	3° 1'4	4° 1	26°27	8°57	16°20	11°12	0°57	7°43	6°28	23°36	13°55	W 8
T 9	11 44 29	28° 2'11"	20° 7'0	30°23'4	4°13'4	4° 4	26°22	9° 4	16°18	11°14	0°59	7°44	6°25	23°43	13°52	T 9
F 10	11 48 26	29° 1'35"	4°33'7	1°17'1	5°24'4	4° 7	26°16	9°11	16°15	11°16	1° 1	7°R45	6°22	23°49	13°50	F 10
S 11	11 52 22	0°Y 0'58"	18° 0'0	2°14'6	6°35'4	4°10	26°10	9°18	16°13	11°18	1° 2	7°45	6°19	23°56	13°47	S 11
S 12	11 56 19	1° 0'19"	1°H46	3°14'7	7°47'4	4°15	26° 5	9°25	16°10	11°19	1° 3	7°42	6°16	24° 3	13°45	S 12
M13	12 0 16	1°59'38"	15°22'4	4°16'8	8°58'4	4°20	26° 0	9°32	16° 8	11°21	1° 5	7°37	6°13	24° 9	13°43	M13
T 14	12 4 12	2°58'55"	28°47'5	5°21'10	10° 9'4	4°25	25°55	9°39	16° 6	11°23	1° 6	7°30	6° 9	24°16	13°40	T 14
W15	12 8 9	3°58'10"	11°Y57	6°29'11	11°20'4	4°32	25°50	9°46	16° 3	11°25	1° 8	7°21	6° 6	24°23	13°38	W15
T 16	12 12 5	4°57'23"	24°52'7	7°38'12	12°31'4	4°39	25°45	9°53	16° 1	11°27	1° 9	7°10	6° 3	24°29	13°36	T 16
F 17	12 16 2	5°56'33"	7°B31	8°50'13	13°41'4	4°46	25°40	10° 0	15°58	11°29	1°11	6°59	6° 0	24°36	13°35	F 17
S 18	12 19 58	6°55'42"	19°54'10	10° 4'14	14°52'4	4°55	25°36	10° 7	15°55	11°31	1°12	6°50	5°57	24°43	13°33	S 18
S 19	12 23 55	7°54'48"	2°II 4	11°20'16	16° 3'5	5° 4	25°31	10°13	15°53	11°33	1°14	6°42	5°54	24°49	13°31	S 19
M20	12 27 51	8°53'52"	14° 2'12	13°38'17	17°13'5	5°13	25°27	10°20	15°50	11°35	1°15	6°37	5°50	24°56	13°30	M20
T 21	12 31 48	9°52'54"	25°54'13	13°58'18	18°23'5	5°23	25°23	10°27	15°48	11°37	1°16	6°33	5°47	25° 3	13°28	T 21
W22	12 35 45	10°51'53"	7°B43	15°19'19	19°34'5	5°34	25°19	10°34	15°45	11°39	1°18	6°D32	5°44	25° 9	13°27	W22
T 23	12 39 41	11°50'50"	19°36'16	16°43'20	20°44'5	5°45	25°16	10°40	15°43	11°41	1°19	6°32	5°41	25°16	13°25	T 23
F 24	12 43 38	12°49'45"	1°L37	18° 8'21	21°54'5	5°57	25°12	10°47	15°40	11°43	1°20	6°R33	5°38	25°23	13°24	F 24
S 25	12 47 34	13°48'38"	13°51'19	19°35'23	23° 4'6	6° 9	25° 9	10°54	15°38	11°45	1°22	6°33	5°34	25°29	13°23	S 25
S 26	12 51 31	14°47'28"	26°24'21	21° 4'24	24°13'6	6°22	25° 6	11° 0	15°35	11°47	1°23	6°31	5°31	25°36	13°22	S 26
M27	12 55 27	15°46'16"	9°II19	22°34'25	25°23'6	6°35	25° 3	11° 7	15°32	11°49	1°24	6°27	5°28	25°43	13°22	M27
T 28	12 59 24	16°45'02"	22°38'24	24° 6'26	26°32'6	6°49	25° 0	11°13	15°30	11°51	1°25	6°20	5°25	25°49	13°21	T 28
W29	13 3 20	17°43'45"	6°L20	25°40'27	27°42'7	7° 3	24°58	11°19	15°27	11°53	1°27	6°11	5°22	25°56	13°20	W29
T 30	13 7 17	18°42'27"	20°24'27	27°15'28	28°51'7	7°18	24°55	11°26	15°25	11°55	1°28	6° 1	5°19	26° 3	13°20	T 30
F 31	13 11 13	19°Y41'06"	4°II45	28°H52	0°II 0	7°L33	24°L53	11°H32	15°L22	11°B57	1°H29	5°L49	5°L15	26°II 9	13°L19	F 31

Delta T = 173.03 sec

Julian Calendar 1 March 1553 == Greg. Calendar 11 March 1553

APRIL 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 15 10	20°Y39'44"	19°II16	0°Y31	1°II 9	7°L48	24°R51	11°H38	15°R20	11°B59	1°H30	5°R39	5°L12	26°II16	13°R19	S 1
S 2	13 19 7	21°38'20"	3°H51	2°11'2	2°18'8	8° 4	24°L49	11°45	15°L17	12° 1	1°31	5°L30	5° 9	26°23	13°L19	S 2
M 3	13 23 3	22°36'54"	18°23'3	3°53'3	3°27'8	8°21	24°48	11°51	15°14	12° 3	1°33	5°24	5° 6	26°30	13°D19	M 3
T 4	13 27 0	23°35'27"	2°B46	5°36'4	4°35'8	8°38	24°46	11°57	15°12	12° 6	1°34	5°21	5° 3	26°36	13°19	T 4
W 5	13 30 56	24°33'58"	16°59'7	7°21'5	5°44'8	8°55	24°45	12° 3	15° 9	12° 8	1°35	5°19	4°59	26°43	13°19	W 5
T 6	13 34 53	25°32'28"	0°B59	9° 8'6	6°52'9	9°13	24°44	12° 9	15° 7	12°10	1°36	5°19	4°56	26°50	13°19	T 6
F 7	13 38 49	26°30'55"	14°46'10	10°57'8	8° 0'9	9°31	24°43	12°15	15° 4	12°12	1°37	5°19	4°53	26°56	13°20	F 7
S 8	13 42 46	27°29'21"	28°22'12	12°47'9	9° 8'8	9°50	24°42	12°21	15° 2	12°14	1°38	5°18	4°50	27° 3	13°20	S 8
S 9	13 46 42	28°27'46"	11°H45	14°39'10	16°16'10	10° 9	24°42	12°27	14°59	12°16	1°39	5°14	4°47	27°10	13°21	S 9
M10	13 50 39	29°26'09"	24°58'16	16°32'11	17°23'10	10°28	24°42	12°33	14°57	12°19	1°40	5° 7	4°44	27°16	13°21	M10
T 11	13 54 36	0°B24'30"	8°Y 0	18°27'12	12°31'10	10°48	24°D41	12°39	14°54	12°21	1°41	4°57	4°40	27°23	13°22	T 11
W12	13 58 32	1°22'49"	20°50'20	20°24'13	13°38'11	11° 8	24°41	12°44	14°52	12°23	1°42	4°45	4°37	27°30	13°23	W12
T 13	14 2 29	2°21'07"	3°B58	22°23'14	14°45'11	11°28	24°42	12°50	14°50	12°25	1°43	4°32	4°34	27°36	13°24	T 13
F 14	14 6 25	3°19'22"	15°55'24	22°23'15	15°52'11	11°49	24°42	12°55	14°47	12°28	1°44	4°18	4°31	27°43	13°25	F 14
S 15	14 10 22	4°17'37"	28° 9'26	26°24'16	16°59'12	12°10	24°43	13° 1	14°45	12°30	1°45	4° 6	4°28	27°50	13°27	S 15
S 16	14 14 18	5°15'49"	10°II13	28°27'18	18° 6'12	12°32	24°43	13° 6	14°42	12°32	1°46	3°55	4°25	27°56	13°28	S 16
M17	14 18 15	6°13'59"	22° 8'0	0°B32	19°12'12	12°54	24°44	13°12	14°40	12°34	1°47	3°47	4°21	28° 3	13°30	M17
T 18	14 22 11	7°12'07"	3°B57	2°38'20	18°16'13	13°16	24°45	13°17	14°38	12°37	1°47	3°42	4°18	28°10	13°31	T 18
W19	14 26 8	8°10'14"	15°45'4	4°45'21	21°24'13	13°38	24°47	13°22	14°35	12°39	1°48	3°39	4°15	28°16	13°33	W19
T 20	14 30 5	9° 8'19"	27°36'6	6°53'22	22°30'14	14° 1	24°48	13°28	14°33	12°41	1°49	3°38	4°12	28°23	13°35	T 20
F 21	14 34 1	10° 6'21"	9°L36	9° 2'23	23°36'14	14°24	24°50	13°33	14°31	12°43	1°50	3°38	4° 9	28°30	13°37	F 21
S 22	14 37 58	11° 4'22"	21°49'11	11°12'24	24°41'14	14°47	24°52	13°38	14°29	12°46	1°51	3°38	4° 5	28°36	13°39	S 22
S 23	14 41 54	12° 2'21"	4°II17	13°23'25	25°46'15	11°11	24°54	13°43	14°27	12°48	1°51	3°36	4° 2	28°43	13°41	S 23
M24	14 45 51	13° 0'17"	17°11'15	15°33'26	26°51'15	15°35	24°56	13°48	14°24	12°50	1°52	3°32	3°59	28°50	13°43	M24
T 25	14 49 47	13°58'12"	0°L40	17°44'27	27°56'15	15°59	24°58	13°53	14°22	12°52	1°53	3°26	3°56	28°56	13°45	T 25
W26	14 53 44	14°56'06"	14°31'19	19°54'29	29° 0'16	16°24	25° 1	13°57	14°20	12°55	1°53	3°18	3°53	29° 3	13°48	W26
T 27	14 57 40	15°53'57"	28°48'22	3°B 5	0°B 5	16°48	25° 4	14° 2	14°18	12°57	1°54	3° 7	3°50	29°10	13°50	T 27
F 28	15 1 37	16°51'47"	13°II27	24°12'1	1° 9'17	17°13	25° 7	14° 7	14°16	12°59	1°55	2°56	3°46	29°16	13°53	F 28
S 29	15 5 34	17°49'36"	28°20'26	20°20'2	2°12'17	17°39	25°10	14°11	14°14	13° 1	1°55	2°46	3°43	29°23	13°56	S 29
S 30	15 9 30	18°B47'23"	13°H18	28°B26	3°B16	18°L 4	25°L13	14°H16	14°L12	13°B 4	1°H56	2°L38	3°L40	29°II30	13°L59	S 30

Delta T = 172.85 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1553

geocentric

MAY 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	15 13 27	19°45'09	28°13	0°30	4°19	18°30	25°16	14°20	14°R10	13°8	1°56	2°R31	3°37	29°36	14°1	M 1
T 2	15 17 23	20°42'53	12°56	2°33	5°22	18°56	25°20	14°25	14°8	13°8	1°57	2°R28	3°34	29°43	14°5	T 2
W 3	15 21 20	21°40'37	27°22	4°34	6°24	19°22	25°24	14°29	14°6	13°10	1°57	2°D27	3°31	29°50	14°8	W 3
T 4	15 25 16	22°38'19	11°30	6°32	7°27	19°49	25°28	14°33	14°5	13°13	1°58	2°27	3°27	29°56	14°11	T 4
F 5	15 29 13	23°36'01	25°17	8°27	8°29	20°15	25°32	14°37	14°3	13°15	1°58	2°R27	3°24	0°3	14°14	F 5
S 6	15 33 9	24°33'41	8°46	10°21	9°30	20°42	25°36	14°41	14°1	13°17	1°59	2°26	3°21	0°10	14°18	S 6
S 7	15 37 6	25°31'20	21°58	12°11	10°32	21°9	25°40	14°45	13°59	13°19	1°59	2°23	3°18	0°16	14°21	S 7
M 8	15 41 3	26°28'58	4°56	13°59	11°33	21°36	25°45	14°49	13°58	13°21	2°0	2°18	3°15	0°23	14°25	M 8
T 9	15 44 59	27°26'35	17°40	15°44	12°33	22°4	25°50	14°53	13°56	13°24	2°0	2°10	3°11	0°30	14°29	T 9
W10	15 48 56	28°24'12	0°12	17°25	13°34	22°32	25°54	14°56	13°54	13°26	2°0	2°0	3°8	0°36	14°32	W10
T 11	15 52 52	29°21'47	12°34	19°4	14°34	23°0	25°59	15°0	13°53	13°28	2°1	1°49	3°5	0°43	14°36	T 11
F 12	15 56 49	0°19'21	24°46	20°40	15°33	23°28	26°5	15°4	13°51	13°30	2°1	1°38	3°2	0°50	14°40	F 12
S 13	16 0 45	1°16'54	6°15	22°13	16°33	23°56	26°10	15°7	13°50	13°32	2°1	1°27	2°59	0°56	14°44	S 13
S 14	16 4 42	2°14'26	18°46	23°43	17°31	24°25	26°15	15°10	13°48	13°35	2°1	1°18	2°56	1°3	14°49	S 14
M15	16 8 38	3°11'56	0°37	25°10	18°30	24°53	26°21	15°14	13°47	13°37	2°2	1°11	2°52	1°10	14°53	M15
T 16	16 12 35	4°9'26	12°24	26°33	19°28	25°22	26°27	15°17	13°46	13°39	2°2	1°7	2°49	1°16	14°57	T 16
W17	16 16 32	5°6'54	24°11	27°53	20°26	25°51	26°33	15°20	13°44	13°41	2°2	1°5	2°46	1°23	15°2	W17
T 18	16 20 28	6°4'21	6°12	29°10	21°23	26°21	26°39	15°23	13°43	13°43	2°2	1°D 5	2°43	1°30	15°6	T 18
F 19	16 24 25	7°1'47	18°2	0°24	22°19	26°50	26°45	15°26	13°42	13°45	2°2	1°6	2°40	1°36	15°11	F 19
S 20	16 28 21	7°59'12	0°14	1°35	23°16	27°20	26°51	15°29	13°41	13°47	2°2	1°7	2°37	1°43	15°16	S 20
S 21	16 32 18	8°56'36	12°44	2°42	24°11	27°50	26°58	15°31	13°40	13°49	2°2	1°R 7	2°33	1°50	15°21	S 21
M22	16 36 14	9°53'58	25°37	3°45	25°6	28°20	27°4	15°34	13°38	13°51	2°2	1°6	2°30	1°56	15°25	M22
T 23	16 40 11	10°51'19	8°57	4°45	26°1	28°50	27°11	15°37	13°37	13°54	2°R 2	1°3	2°27	2°3	15°30	T 23
W24	16 44 7	11°48'39	22°46	5°42	26°55	29°20	27°18	15°39	13°36	13°56	2°2	0°58	2°24	2°10	15°35	W24
T 25	16 48 4	12°45'59	7°13	6°35	27°49	29°51	27°25	15°41	13°36	13°58	2°2	0°51	2°21	2°16	15°41	T 25
F 26	16 52 1	13°43'17	21°46	7°24	28°42	0°21	27°32	15°44	13°35	14°0	2°2	0°44	2°17	2°23	15°46	F 26
S 27	16 55 57	14°40'34	6°47	8°9	29°34	0°52	27°40	15°46	13°34	14°2	2°2	0°38	2°14	2°30	15°51	S 27
S 28	16 59 54	15°37'51	21°59	8°50	0°25	1°23	27°47	15°48	13°33	14°4	2°2	0°32	2°11	2°36	15°56	S 28
M29	17 3 50	16°35'07	7°3	9°27	1°16	1°54	27°54	15°50	13°32	14°6	2°2	0°28	2°8	2°43	16°2	M29
T 30	17 7 47	17°32'23	22°10	10°0	2°7	2°25	28°2	15°52	13°32	14°8	2°2	0°26	2°5	2°50	16°7	T 30
W31	17 11 43	18°29'38	6°53	10°29	2°56	2°57	28°10	15°54	13°31	14°9	2°2	0°D26	2°2	2°56	16°13	W31

Delta T = 172.67 sec

Julian Calendar 1 May 1553 == Greg. Calendar 11 May 1553

JUNE 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	17 15 40	19°26'53	21°14	10°53	3°45	3°28	28°18	15°55	13°R30	14°11	2°R 2	0°27	1°58	3°3	16°19	T 1
F 2	17 19 36	20°24'08	5°11	11°13	4°33	4°0	28°26	15°57	13°30	14°13	2°R 1	0°28	1°55	3°10	16°24	F 2
S 3	17 23 33	21°21'22	18°43	11°28	5°21	4°31	28°34	15°58	13°29	14°15	2°1	0°R29	1°52	3°16	16°30	S 3
S 4	17 27 30	22°18'36	1°53	11°39	6°7	5°3	28°42	16°0	13°29	14°17	2°1	0°29	1°49	3°23	16°36	S 4
M 5	17 31 26	23°15'50	14°44	11°46	6°53	5°35	28°51	16°1	13°29	14°19	2°1	0°27	1°46	3°30	16°42	M 5
T 6	17 35 23	24°13'04	27°19	11°R48	7°38	6°8	28°59	16°2	13°28	14°21	2°0	0°23	1°42	3°36	16°48	T 6
W 7	17 39 19	25°10'17	9°39	11°45	8°22	6°40	29°8	16°3	13°28	14°23	2°0	0°18	1°39	3°43	16°54	W 7
T 8	17 43 16	26°7'31	21°49	11°38	9°5	7°12	29°16	16°4	13°28	14°24	1°59	0°13	1°36	3°50	17°0	T 8
F 9	17 47 12	27°4'44	3°15	11°26	9°47	7°45	29°25	16°5	13°28	14°26	1°59	0°7	1°33	3°56	17°7	F 9
S 10	17 51 9	28°1'57	15°45	11°10	10°27	8°18	29°34	16°6	13°28	14°28	1°59	0°1	1°30	4°3	17°13	S 10
S 11	17 55 5	28°59'11	27°36	10°51	11°7	8°51	29°43	16°7	13°27	14°30	1°58	29°57	1°27	4°10	17°19	S 11
M12	17 59 2	29°56'23	9°24	10°27	11°46	9°24	29°52	16°7	13°D27	14°31	1°58	29°54	1°23	4°16	17°26	M12
T 13	18 2 59	0°53'36	21°11	10°0	12°24	9°57	0°1	16°8	13°28	14°33	1°57	29°52	1°20	4°23	17°32	T 13
W14	18 6 55	1°50'49	3°1	9°30	13°0	10°30	0°11	16°8	13°28	14°35	1°57	29°D52	1°17	4°30	17°39	W14
T 15	18 10 52	2°48'01	14°56	8°58	13°36	11°3	0°20	16°9	13°28	14°36	1°56	29°52	1°14	4°36	17°45	T 15
F 16	18 14 48	3°45'13	26°59	8°24	14°10	11°37	0°30	16°9	13°28	14°38	1°56	29°54	1°11	4°43	17°52	F 16
S 17	18 18 45	4°42'24	9°14	7°48	14°42	12°10	0°39	16°R 9	13°28	14°40	1°55	29°56	1°8	4°50	17°59	S 17
S 18	18 22 41	5°39'35	21°46	7°11	15°14	12°44	0°49	16°9	13°29	14°41	1°55	29°57	1°4	4°56	18°5	S 18
M19	18 26 38	6°36'46	4°37	6°34	15°43	13°18	0°59	16°9	13°29	14°43	1°54	29°R57	1°1	5°3	18°12	M19
T 20	18 30 34	7°33'57	17°52	5°57	16°12	13°52	1°9	16°9	13°29	14°44	1°53	29°57	0°58	5°10	18°19	T 20
W21	18 34 31	8°31'08	1°34	5°22	16°39	14°26	1°19	16°8	13°30	14°46	1°53	29°56	0°55	5°16	18°26	W21
T 22	18 38 28	9°28'18	15°42	4°48	17°4	15°0	1°29	16°8	13°30	14°47	1°52	29°54	0°52	5°23	18°33	T 22
F 23	18 42 24	10°25'28	0°16	4°16	17°27	15°35	1°39	16°7	13°31	14°49	1°51	29°51	0°48	5°30	18°40	F 23
S 24	18 46 21	11°22'39	15°11	3°47	17°49	16°9	1°49	16°7	13°31	14°50	1°51	29°49	0°45	5°36	18°47	S 24
S 25	18 50 17	12°19'49	0°20	3°21	18°9	16°43	1°59	16°6	13°32	14°52	1°50	29°47	0°42	5°43	18°54	S 25
M26	18 54 14	13°17'00	15°32	2°59	18°27	17°18	2°10	16°5	13°33	14°53	1°49	29°46	0°39	5°50	19°1	M26
T 27	18 58 10	14°14'11	0°40	2°42	18°43	17°53	2°20	16°4	13°34	14°54	1°48	29°D46	0°36	5°56	19°9	T 27
W28	19 2 7	15°11'22	15°34	2°29	18°58	18°28	2°31	16°3	13°34	14°56	1°48	29°46	0°33	6°3	19°16	W28
T 29	19 6 4	16°8'34	0°6	2°20	19°10	19°2	2°42	16°2	13°35	14°57	1°47	29°47	0°29	6°10	19°23	T 29
F 30	19 10 0	17°5'46	14°14	2°D17	19°20	19°37	2°52	16°1	13°36	14°58	1°46	29°48	0°26	6°16	19°31	F 30

Delta T = 172.49 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1553

geocentric

JULY 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 13 57	18°25'59"	27°55'	2°20'	19°12'	20°13'	3°11'	16°R 0	13°37'	14°59'	1°R45	29°49'	0°23'	6°23'	19°138	S 1
S 2	19 17 53	19° 0'12"	11°10'	2°27'	19°34'	20°48'	3°14'	15°58'	13°38'	15° 1'	1°44'	29°49'	0°20'	6°29'	19°45	S 2
M 3	19 21 50	19°57'27"	24° 2'	2°41'	19°38'	21°23'	3°25'	15°57'	13°39'	15° 2'	1°44'	29°R49	0°17'	6°36'	19°53	M 3
T 4	19 25 46	20°54'42"	6°34'	3° 0'	19°R39	21°59'	3°36'	15°55'	13°41'	15° 3'	1°43'	29°49'	0°14'	6°43'	20° 0	T 4
W 5	19 29 43	21°51'58"	18°50'	3°25'	19°38'	22°34'	3°47'	15°54'	13°42'	15° 4'	1°42'	29°48'	0°10'	6°49'	20° 8	W 5
T 6	19 33 39	22°49'15"	0°15'	3°55'	19°35'	23°10'	3°58'	15°52'	13°43'	15° 5'	1°41'	29°47'	0° 7'	6°56'	20°16	T 6
F 7	19 37 36	23°46'32"	12°48'	4°31'	19°30'	23°46'	4° 9'	15°50'	13°44'	15° 6'	1°40'	29°47'	0° 4'	7° 3'	20°23	F 7
S 8	19 41 33	24°43'51"	24°38'	5°13'	19°22'	24°21'	4°21'	15°48'	13°46'	15° 7'	1°39'	29°46'	0° 1'	7° 9'	20°31	S 8
S 9	19 45 29	25°41'10"	6°26'	6° 0'	19°12'	24°57'	4°32'	15°46'	13°47'	15° 8'	1°38'	29°45'	29°58'	7°16'	20°39	S 9
M10	19 49 26	26°38'30"	18°14'	6°53'	18°59'	25°33'	4°43'	15°44'	13°48'	15° 9'	1°37'	29°45'	29°54'	7°23'	20°46	M10
T 11	19 53 22	27°35'51"	0°6'	7°52'	18°44'	26° 9'	4°55'	15°42'	13°50'	15°10'	1°36'	29°D45	29°51'	7°29'	20°54	T 11
W12	19 57 19	28°33'12"	12° 2'	8°56'	18°27'	26°46'	5° 6'	15°39'	13°51'	15°11'	1°35'	29°45'	29°48'	7°36'	21° 2	W12
T 13	20 1 15	29°30'34"	24° 6'	10° 5'	18° 7'	27°22'	5°18'	15°37'	13°53'	15°12'	1°34'	29°R45	29°45'	7°43'	21°10	T 13
F 14	20 5 12	0°12'57"	6°19'	11°19'	17°45'	27°58'	5°30'	15°35'	13°55'	15°13'	1°33'	29°45'	29°42'	7°49'	21°18	F 14
S 15	20 9 8	1°25'21"	18°44'	12°38'	17°21'	28°35'	5°41'	15°32'	13°56'	15°14'	1°32'	29°45'	29°39'	7°56'	21°26	S 15
S 16	20 13 5	2°22'45"	1°24'	14° 3'	16°55'	29°12'	5°53'	15°29'	13°58'	15°15'	1°31'	29°45'	29°35'	8° 3'	21°34	S 16
M17	20 17 2	3°20'09"	14°20'	15°31'	16°27'	29°48'	6° 5'	15°27'	14° 0'	15°15'	1°30'	29°44'	29°32'	8° 9'	21°42	M17
T 18	20 20 58	4°17'35"	27°35'	17° 5'	15°58'	0°25'	6°17'	15°24'	14° 2'	15°16'	1°29'	29°44'	29°29'	8°16'	21°50	T 18
W19	20 24 55	5°15'01"	11°11'	18°42'	15°26'	1° 2'	6°29'	15°21'	14° 4'	15°17'	1°27'	29°D44	29°26'	8°23'	21°58	W19
T 20	20 28 51	6°12'28"	25° 8'	20°24'	14°53'	1°39'	6°41'	15°18'	14° 5'	15°18'	1°26'	29°45'	29°23'	8°29'	22° 6	T 20
F 21	20 32 48	7° 9'56"	9°27'	22° 9'	14°19'	2°16'	6°53'	15°15'	14° 7'	15°18'	1°25'	29°45'	29°20'	8°36'	22°14	F 21
S 22	20 36 44	8° 7'24"	24° 5'	23°58'	13°44'	2°53'	7° 5'	15°12'	14° 9'	15°19'	1°24'	29°46'	29°16'	8°43'	22°22	S 22
S 23	20 40 41	9° 4'53"	8°57'	25°49'	13° 8'	3°30'	7°17'	15° 9'	14°12'	15°19'	1°23'	29°46'	29°13'	8°49'	22°30	S 23
M24	20 44 37	10° 2'24"	23°57'	27°43'	12°31'	4° 8'	7°29'	15° 5'	14°14'	15°20'	1°22'	29°R47	29°10'	8°56'	22°38	M24
T 25	20 48 34	10°59'55"	8°57'	29°40'	11°54'	4°45'	7°41'	15° 2'	14°16'	15°20'	1°21'	29°47'	29° 7'	9° 3'	22°46	T 25
W26	20 52 31	11°57'27"	23°48'	1°16'	11°16'	5°23'	7°54'	14°59'	14°18'	15°21'	1°19'	29°46'	29° 4'	9° 9'	22°54	W26
T 27	20 56 27	12°55'01"	8°23'	3°38'	10°39'	6° 0'	8° 6'	14°55'	14°20'	15°21'	1°18'	29°45'	29° 0'	9°16'	23° 2	T 27
F 28	21 0 24	13°52'36"	22°36'	5°38'	10° 2'	6°38'	8°18'	14°51'	14°22'	15°22'	1°17'	29°43'	28°57'	9°23'	23°11	F 28
S 29	21 4 20	14°50'12"	6°24'	7°40'	9°25'	7°16'	8°31'	14°48'	14°25'	15°22'	1°16'	29°41'	28°54'	9°29'	23°19	S 29
S 30	21 8 17	15°47'50"	19°45'	9°42'	8°50'	7°53'	8°43'	14°44'	14°27'	15°23'	1°15'	29°40'	28°51'	9°36'	23°27	S 30
M31	21 12 13	16°45'29"	2°41'	11°44'	8°15'	8°31'	8°15'	14°40'	14°29'	15°23'	1°13'	29°38'	28°48'	9°42'	23°35	M31

Delta T = 172.31 sec

Julian Calendar 1 July 1553 == Greg. Calendar 11 July 1553

AUGUST 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 16 10	17°43'10"	15°15'	13°47'	7°R42	9°12'	9°11'	14°R37	14°32'	15°23'	1°R12	29°D38	28°45'	9°49'	23°143	T 1
W 2	21 20 6	18°40'53"	27°31'	15°48'	7°10'	9°47'	9°20'	14°33'	14°34'	15°23'	1°11'	29°38'	28°41'	9°56'	23°52	W 2
T 3	21 24 3	19°38'37"	9°11'	17°50'	6°39'	10°26'	9°33'	14°29'	14°37'	15°24'	1°10'	29°39'	28°38'	10° 2'	24° 0	T 3
F 4	21 28 0	20°36'23"	21°25'	19°50'	6°11'	11° 4'	9°46'	14°25'	14°39'	15°24'	1° 8'	29°40'	28°35'	10° 9'	24° 8	F 4
S 5	21 31 56	21°34'10"	3°14'	21°50'	5°44'	11°42'	9°58'	14°21'	14°42'	15°24'	1° 7'	29°42'	28°32'	10°16'	24°16	S 5
S 6	21 35 53	22°32'00"	15° 2'	23°49'	5°19'	12°21'	10°11'	14°17'	14°45'	15°24'	1° 6'	29°43'	28°29'	10°22'	24°25	S 6
M 7	21 39 49	23°29'50"	26°53'	25°47'	4°57'	12°59'	10°24'	14°13'	14°47'	15°24'	1° 5'	29°R44	28°26'	10°29'	24°33	M 7
T 8	21 43 46	24°27'43"	8°50'	27°43'	4°36'	13°38'	10°36'	14° 8'	14°50'	15°24'	1° 3'	29°44'	28°22'	10°36'	24°41	T 8
W 9	21 47 42	25°25'37"	20°57'	29°39'	4°18'	14°16'	10°49'	14° 4'	14°53'	15°R24	1° 2'	29°42'	28°19'	10°42'	24°50	W 9
T 10	21 51 39	26°23'32"	3°14'	1°11'	4° 2'	14°55'	11° 2'	14° 0'	14°56'	15°24'	1° 1'	29°39'	28°16'	10°49'	24°58	T 10
F 11	21 55 35	27°21'29"	15°44'	3°26'	3°49'	15°34'	11°15'	13°56'	14°58'	15°24'	1° 0'	29°36'	28°13'	10°56'	25° 6	F 11
S 12	21 59 32	28°19'28"	28°26'	5°18'	3°38'	16°13'	11°27'	13°51'	15° 1'	15°24'	0°58'	29°31'	28°10'	11° 2'	25°14	S 12
S 13	22 3 29	29°17'28"	11°22'	7° 8'	3°29'	16°52'	11°40'	13°47'	15° 4'	15°24'	0°57'	29°26'	28° 6'	11° 9'	25°23	S 13
M14	22 7 25	0°15'29"	24°31'	8°57'	3°23'	17°31'	11°53'	13°43'	15° 7'	15°24'	0°56'	29°22'	28° 3'	11°16'	25°31	M14
T 15	22 11 22	1°13'32"	7°15'	10°45'	3°19'	18°10'	12° 6'	13°38'	15°10'	15°24'	0°54'	29°19'	28° 0'	11°22'	25°39	T 15
W16	22 15 18	2°11'36"	21°32'	12°32'	3°D17	18°50'	12°19'	13°34'	15°13'	15°23'	0°53'	29°17'	27°57'	11°29'	25°47	W16
T 17	22 19 15	3° 9'42"	5°25'	14°17'	3°18'	19°29'	12°32'	13°29'	15°16'	15°23'	0°52'	29°D16	27°54'	11°36'	25°56	T 17
F 18	22 23 11	4° 7'49"	19°31'	16° 1'	3°21'	20° 8'	12°45'	13°25'	15°19'	15°23'	0°51'	29°17'	27°51'	11°42'	26° 4	F 18
S 19	22 27 8	5° 5'58"	3°50'	17°44'	3°26'	20°48'	12°57'	13°20'	15°22'	15°23'	0°49'	29°19'	27°47'	11°49'	26°12	S 19
S 20	22 31 4	6° 4'08"	18°20'	19°26'	3°34'	21°27'	13°10'	13°16'	15°25'	15°22'	0°48'	29°20'	27°44'	11°56'	26°20	S 20
M21	22 35 1	7° 2'19"	2°57'	21° 6'	3°44'	22° 7'	13°23'	13°11'	15°28'	15°22'	0°47'	29°R20	27°41'	12° 2'	26°29	M21
T 22	22 38 58	8° 0'32"	17°36'	22°46'	3°56'	22°47'	13°36'	13° 6'	15°31'	15°22'	0°46'	29°19'	27°38'	12° 9'	26°37	T 22
W23	22 42 54	8°58'47"	2°10'	24°24'	4° 9'	23°27'	13°49'	13° 2'	15°35'	15°21'	0°44'	29°16'	27°35'	12°15'	26°45	W23
T 24	22 46 51	9°57'03"	16°34'	26° 1'	4°25'	24° 6'	14° 2'	12°57'	15°38'	15°21'	0°43'	29°11'	27°32'	12°22'	26°53	T 24
F 25	22 50 47	10°55'22"	0°41'	27°37'	4°43'	24°46'	14°15'	12°53'	15°41'	15°20'	0°42'	29° 5'	27°28'	12°29'	27° 1	F 25
S 26	22 54 44	11°53'42"	14°28'	29°11'	5° 3'	25°26'	14°28'	12°48'	15°44'	15°20'	0°41'	28°58'	27°25'	12°35'	27°10	S 26
S 27	22 58 40	12°52'04"	27°50'	0°45'	5°25'	26° 7'	14°41'	12°43'	15°48'	15°19'	0°39'	28°51'	27°22'	12°42'	27°18	S 27
M28	23 2 37	13°50'28"	10°48'	2°17'	5°48'	26°47'	14°54'	12°39'	15°51'	15°18'	0°38'	28°45'	27°19'	12°49'	27°26	M28
T 29	23 6 33	14°48'55"	23°24'	3°49'	6°13'	27°27'	15° 7'	12°34'	15°54'	15°18'	0°37'	28°41'	27°16'	12°55'	27°34	T 29
W30	23 10 30	15°47'24"	5°11'	5°19'	6°40'	28° 7'	15°20'	12°29'	15°58'	15°17'	0°36'	28°39'	27°12'	13° 2'	27°42	W30
T 31	23 14 26	16°45'54"	17°11'	6°48'	7°12'	28°48'	15°11'	12°25'	16°11'	15°16'	0°34'	28°D38	27°9'	13° 9'	27°50	T 31

Delta T = 172.13 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1553

geocentric

SEPTEMBER 1553 JC

00:00 UT

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

Delta T = 171.95 sec

Julian Calendar 1 Sept. 1553 == Greg. Calendar 11 Sept. 1553

OCTOBER 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	1 16 40	17 ^h 16'33	1 ^h 8' 6	7 ^h 53	0 ^h 56	20 ^h 18	22 ^h 9	10 ^h 19	17 ^h 54	14 ^h R42	0 ^h R 2	26 ^h R11	25 ^h 31	16 ^h 35	1 ^h 43	S 1
M 2	1 20 36	18 ^h 16'09	13 ^h 2	7 ^h 51	1 ^h 54	21 ^h 1	22 ^h 22	10 ^h 15	17 ^h 58	14 ^h 41	0 ^h 1 2	26 ^h 10	25 ^h 28	16 ^h 41	1 ^h 50	M 2
T 3	1 24 33	19 ^h 15'48	25 ^h 9	7 ^h 41	2 ^h 52	21 ^h 44	22 ^h 34	10 ^h 12	18 ^h 2	14 ^h 39	0 ^h 1	26 ^h 7	25 ^h 24	16 ^h 48	1 ^h 57	T 3
W 4	1 28 29	20 ^h 15'29	7 ^h 33	7 ^h 23	3 ^h 51	22 ^h 27	22 ^h 46	10 ^h 9	18 ^h 6	14 ^h 38	0 ^h 0	26 ^h 1	25 ^h 21	16 ^h 55	2 ^h 3	W 4
T 5	1 32 26	21 ^h 15'12	20 ^h 16	6 ^h 55	4 ^h 51	23 ^h 10	22 ^h 58	10 ^h 6	18 ^h 9	14 ^h 36	29 ^h 59	25 ^h 53	25 ^h 18	17 ^h 1	2 ^h 10	T 5
F 6	1 36 22	22 ^h 14'57	3 ^h 20	6 ^h 19	5 ^h 51	23 ^h 53	23 ^h 11	10 ^h 4	18 ^h 13	14 ^h 35	29 ^h 59	25 ^h 42	25 ^h 15	17 ^h 8	2 ^h 16	F 6
S 7	1 40 19	23 ^h 14'44	16 ^h 45	5 ^h 35	6 ^h 51	24 ^h 36	23 ^h 23	10 ^h 1	18 ^h 17	14 ^h 33	29 ^h 58	25 ^h 30	25 ^h 12	17 ^h 15	2 ^h 23	S 7
S 8	1 44 15	24 ^h 14'34	0 ^h 29	4 ^h 41	7 ^h 52	25 ^h 19	23 ^h 35	9 ^h 58	18 ^h 21	14 ^h 31	29 ^h 57	25 ^h 17	25 ^h 8	17 ^h 21	2 ^h 29	S 8
M 9	1 48 12	25 ^h 14'25	14 ^h 27	3 ^h 41	8 ^h 53	26 ^h 3	23 ^h 47	9 ^h 56	18 ^h 24	14 ^h 30	29 ^h 57	25 ^h 5	25 ^h 5	17 ^h 28	2 ^h 35	M 9
T 10	1 52 9	26 ^h 14'18	28 ^h 35	2 ^h 33	9 ^h 55	26 ^h 46	23 ^h 59	9 ^h 53	18 ^h 28	14 ^h 28	29 ^h 56	24 ^h 55	25 ^h 2	17 ^h 35	2 ^h 42	T 10
W 11	1 56 5	27 ^h 14'14	12 ^h 49	1 ^h 20	10 ^h 57	27 ^h 29	24 ^h 11	9 ^h 51	18 ^h 32	14 ^h 27	29 ^h 56	24 ^h 47	24 ^h 59	17 ^h 41	2 ^h 48	W 11
T 12	2 0 2	28 ^h 14'10	27 ^h 4	0 ^h 4	11 ^h 59	28 ^h 13	24 ^h 22	9 ^h 49	18 ^h 36	14 ^h 25	29 ^h 55	24 ^h 43	24 ^h 56	17 ^h 48	2 ^h 54	T 12
F 13	2 3 58	29 ^h 14'09	11 ^h 36	28 ^h 47	13 ^h 2	28 ^h 56	24 ^h 34	9 ^h 46	18 ^h 39	14 ^h 23	29 ^h 54	24 ^h 41	24 ^h 53	17 ^h 54	3 ^h 0	F 13
S 14	2 7 55	0 ^h 14'09	25 ^h 24	27 ^h 32	14 ^h 5	29 ^h 40	24 ^h 46	9 ^h 44	18 ^h 43	14 ^h 22	29 ^h 54	24 ^h 41	24 ^h 49	18 ^h 1	3 ^h 6	S 14
S 15	2 11 51	1 ^h 14'11	9 ^h 27	26 ^h 20	15 ^h 8	0 ^h 24	24 ^h 58	9 ^h 42	18 ^h 47	14 ^h 20	29 ^h 53	24 ^h 40	24 ^h 46	18 ^h 8	3 ^h 12	S 15
M 16	2 15 48	2 ^h 14'14	23 ^h 25	25 ^h 13	16 ^h 12	1 ^h 7	25 ^h 9	9 ^h 40	18 ^h 51	14 ^h 19	29 ^h 53	24 ^h 39	24 ^h 43	18 ^h 14	3 ^h 18	M 16
T 17	2 19 44	3 ^h 14'19	7 ^h 16	24 ^h 15	17 ^h 16	1 ^h 51	25 ^h 21	9 ^h 39	18 ^h 54	14 ^h 17	29 ^h 53	24 ^h 36	24 ^h 40	18 ^h 21	3 ^h 23	T 17
W 18	2 23 41	4 ^h 14'26	21 ^h 0	23 ^h 26	18 ^h 20	2 ^h 35	25 ^h 32	9 ^h 37	18 ^h 58	14 ^h 15	29 ^h 52	24 ^h 29	24 ^h 37	18 ^h 28	3 ^h 29	W 18
T 19	2 27 38	5 ^h 14'34	4 ^h 35	22 ^h 48	19 ^h 25	3 ^h 19	25 ^h 44	9 ^h 35	19 ^h 2	14 ^h 14	29 ^h 52	24 ^h 20	24 ^h 34	18 ^h 34	3 ^h 35	T 19
F 20	2 31 34	6 ^h 14'43	18 ^h 0	22 ^h 21	20 ^h 30	4 ^h 3	25 ^h 55	9 ^h 34	19 ^h 5	14 ^h 12	29 ^h 51	24 ^h 9	24 ^h 30	18 ^h 41	3 ^h 40	F 20
S 21	2 35 31	7 ^h 14'55	1 ^h 12	22 ^h 6	21 ^h 35	4 ^h 47	26 ^h 6	9 ^h 32	19 ^h 9	14 ^h 10	29 ^h 51	23 ^h 56	24 ^h 27	18 ^h 48	3 ^h 46	S 21
S 22	2 39 27	8 ^h 15'08	14 ^h 9	22 ^h D 3	22 ^h 40	5 ^h 31	26 ^h 17	9 ^h 31	19 ^h 12	14 ^h 9	29 ^h 51	23 ^h 43	24 ^h 24	18 ^h 54	3 ^h 51	S 22
M 23	2 43 24	9 ^h 15'23	26 ^h 51	22 ^h 10	23 ^h 46	6 ^h 15	26 ^h 29	9 ^h 30	19 ^h 16	14 ^h 7	29 ^h 50	23 ^h 31	24 ^h 21	19 ^h 1	3 ^h 56	M 23
T 24	2 47 20	10 ^h 15'40	9 ^h 11	22 ^h 29	24 ^h 52	6 ^h 59	26 ^h 40	9 ^h 29	19 ^h 20	14 ^h 5	29 ^h 50	23 ^h 21	24 ^h 18	19 ^h 8	4 ^h 1	T 24
W 25	2 51 17	11 ^h 15'59	21 ^h 29	22 ^h 56	25 ^h 59	7 ^h 44	26 ^h 51	9 ^h 28	19 ^h 23	14 ^h 3	29 ^h 50	23 ^h 14	24 ^h 14	19 ^h 14	4 ^h 6	W 25
T 26	2 55 13	12 ^h 16'20	3 ^h 28	23 ^h 33	27 ^h 5	8 ^h 28	27 ^h 2	9 ^h 27	19 ^h 27	14 ^h 2	29 ^h 50	23 ^h 10	24 ^h 11	19 ^h 21	4 ^h 11	T 26
F 27	2 59 10	13 ^h 16'42	15 ^h 19	24 ^h 18	28 ^h 12	9 ^h 12	27 ^h 12	9 ^h 26	19 ^h 30	14 ^h 0	29 ^h 49	23 ^h 8	24 ^h 8	19 ^h 28	4 ^h 16	F 27
S 28	3 3 7	14 ^h 17'07	27 ^h 6	25 ^h 10	29 ^h 19	9 ^h 57	27 ^h 23	9 ^h 25	19 ^h 34	13 ^h 58	29 ^h 49	23 ^h D 8	24 ^h 5	19 ^h 34	4 ^h 21	S 28
S 29	3 7 3	15 ^h 17'33	8 ^h 55	26 ^h 8	0 ^h 26	10 ^h 41	27 ^h 34	9 ^h 25	19 ^h 37	13 ^h 57	29 ^h 49	23 ^h 8	24 ^h 2	19 ^h 41	4 ^h 26	S 29
M 30	3 11 0	16 ^h 18'02	20 ^h 49	27 ^h 12	1 ^h 34	11 ^h 26	27 ^h 44	9 ^h 24	19 ^h 41	13 ^h 55	29 ^h 49	23 ^h R 8	23 ^h 59	19 ^h 47	4 ^h 30	M 30
T 31	3 14 56	17 ^h 18'32	2 ^h 56	28 ^h 20	2 ^h 42	12 ^h 11	27 ^h 55	9 ^h 24	19 ^h 44	13 ^h 53	29 ^h 49	23 ^h 7	23 ^h 55	19 ^h 54	4 ^h 35	T 31

ASTRODIENST EPHEMERIS for the year 1553

geocentric

NOVEMBER 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	3 18 53	18 ¹¹ 19'04	15 ¹¹ 21	29 ¹¹ 32	3 ¹¹ 50	12 ¹¹ 55	28 ¹¹ 5	9 ¹¹ R23	19 ¹¹ 48	13 ¹¹ R52	29 ¹¹ R49	23 ¹¹ R 3	23 ¹¹ 52	20 ¹¹ 51	4 ¹¹ 39	W 1
T 2	3 22 49	19 ¹¹ 19'38	28 ¹¹ 7	0 ¹¹ 48	4 ¹¹ 58	13 ¹¹ 40	28 ¹¹ 15	9 ¹¹ 23	19 ¹¹ 51	13 ¹¹ 50	29 ¹¹ 49	22 ¹¹ 57	23 ¹¹ 49	20 ¹¹ 7	4 ¹¹ 44	T 2
F 3	3 26 46	20 ¹¹ 20'13	11 ¹¹ 17	2 ¹¹ 7	6 ¹¹ 6	14 ¹¹ 25	28 ¹¹ 26	9 ¹¹ D23	19 ¹¹ 55	13 ¹¹ 48	29 ¹¹ 49	22 ¹¹ 49	23 ¹¹ 46	20 ¹¹ 14	4 ¹¹ 48	F 3
S 4	3 30 42	21 ¹¹ 20'50	24 ¹¹ 54	3 ¹¹ 28	7 ¹¹ 15	15 ¹¹ 10	28 ¹¹ 36	9 ¹¹ 23	19 ¹¹ 58	13 ¹¹ 47	29 ¹¹ D49	22 ¹¹ 39	23 ¹¹ 43	20 ¹¹ 21	4 ¹¹ 52	S 4
S 5	3 34 39	22 ¹¹ 21'29	8 ¹¹ 54	4 ¹¹ 52	8 ¹¹ 23	15 ¹¹ 55	28 ¹¹ 46	9 ¹¹ 23	20 ¹¹ 1	13 ¹¹ 45	29 ¹¹ 49	22 ¹¹ 29	23 ¹¹ 40	20 ¹¹ 27	4 ¹¹ 56	S 5
M 6	3 38 36	23 ¹¹ 22'10	23 ¹¹ 14	6 ¹¹ 17	9 ¹¹ 32	16 ¹¹ 40	28 ¹¹ 56	9 ¹¹ 24	20 ¹¹ 5	13 ¹¹ 43	29 ¹¹ 49	22 ¹¹ 19	23 ¹¹ 36	20 ¹¹ 34	5 ¹¹ 0	M 6
T 7	3 42 32	24 ¹¹ 22'52	7 ¹¹ 48	7 ¹¹ 44	10 ¹¹ 41	17 ¹¹ 25	29 ¹¹ 6	9 ¹¹ 24	20 ¹¹ 8	13 ¹¹ 42	29 ¹¹ 49	22 ¹¹ 11	23 ¹¹ 33	20 ¹¹ 41	5 ¹¹ 4	T 7
W 8	3 46 29	25 ¹¹ 23'35	22 ¹¹ 29	9 ¹¹ 12	11 ¹¹ 51	18 ¹¹ 10	29 ¹¹ 15	9 ¹¹ 24	20 ¹¹ 11	13 ¹¹ 40	29 ¹¹ 49	22 ¹¹ 5	23 ¹¹ 30	20 ¹¹ 47	5 ¹¹ 8	W 8
T 9	3 50 25	26 ¹¹ 24'20	7 ¹¹ 9	10 ¹¹ 41	13 ¹¹ 0	18 ¹¹ 55	29 ¹¹ 25	9 ¹¹ 25	20 ¹¹ 15	13 ¹¹ 38	29 ¹¹ 49	22 ¹¹ 2	23 ¹¹ 27	20 ¹¹ 54	5 ¹¹ 11	T 9
F 10	3 54 22	27 ¹¹ 25'05	21 ¹¹ 43	12 ¹¹ 11	14 ¹¹ 10	19 ¹¹ 41	29 ¹¹ 35	9 ¹¹ 26	20 ¹¹ 18	13 ¹¹ 37	29 ¹¹ 49	22 ¹¹ D 1	23 ¹¹ 24	21 ¹¹ 1	5 ¹¹ 15	F 10
S 11	3 58 18	28 ¹¹ 25'52	6 ¹¹ 6	13 ¹¹ 41	15 ¹¹ 19	20 ¹¹ 26	29 ¹¹ 44	9 ¹¹ 26	20 ¹¹ 21	13 ¹¹ 35	29 ¹¹ 49	22 ¹¹ 1	23 ¹¹ 20	21 ¹¹ 7	5 ¹¹ 18	S 11
S 12	4 2 15	29 ¹¹ 26'40	20 ¹¹ 15	15 ¹¹ 12	16 ¹¹ 29	21 ¹¹ 11	29 ¹¹ 53	9 ¹¹ 27	20 ¹¹ 24	13 ¹¹ 33	29 ¹¹ 49	22 ¹¹ 2	23 ¹¹ 17	21 ¹¹ 14	5 ¹¹ 22	S 12
M13	4 6 11	0 ¹¹ 27'28	4 ¹¹ 11	16 ¹¹ 44	17 ¹¹ 39	21 ¹¹ 57	0 ¹¹ 2	9 ¹¹ 28	20 ¹¹ 27	13 ¹¹ 32	29 ¹¹ 50	22 ¹¹ R 2	23 ¹¹ 14	21 ¹¹ 20	5 ¹¹ 25	M13
T 14	4 10 8	1 ¹¹ 28'18	17 ¹¹ 51	18 ¹¹ 16	18 ¹¹ 49	22 ¹¹ 42	0 ¹¹ 12	9 ¹¹ 29	20 ¹¹ 30	13 ¹¹ 30	29 ¹¹ 50	22 ¹¹ 1	23 ¹¹ 11	21 ¹¹ 27	5 ¹¹ 28	T 14
W15	4 14 5	2 ¹¹ 29'08	1 ¹¹ Y19	19 ¹¹ 48	20 ¹¹ 0	23 ¹¹ 28	0 ¹¹ 21	9 ¹¹ 31	20 ¹¹ 33	13 ¹¹ 29	29 ¹¹ 50	21 ¹¹ 57	23 ¹¹ 8	21 ¹¹ 34	5 ¹¹ 31	W15
T 16	4 18 1	3 ¹¹ 29'59	14 ¹¹ 33	21 ¹¹ 21	21 ¹¹ 10	24 ¹¹ 13	0 ¹¹ 29	9 ¹¹ 32	20 ¹¹ 36	13 ¹¹ 27	29 ¹¹ 51	21 ¹¹ 52	23 ¹¹ 5	21 ¹¹ 40	5 ¹¹ 34	T 16
F 17	4 21 58	4 ¹¹ 30'51	27 ¹¹ 34	22 ¹¹ 53	22 ¹¹ 21	24 ¹¹ 59	0 ¹¹ 38	9 ¹¹ 33	20 ¹¹ 39	13 ¹¹ 25	29 ¹¹ 51	21 ¹¹ 44	23 ¹¹ 1	21 ¹¹ 47	5 ¹¹ 37	F 17
S 18	4 25 54	5 ¹¹ 31'45	10 ¹¹ 24	24 ¹¹ 26	23 ¹¹ 31	25 ¹¹ 44	0 ¹¹ 47	9 ¹¹ 35	20 ¹¹ 42	13 ¹¹ 24	29 ¹¹ 51	21 ¹¹ 36	22 ¹¹ 58	21 ¹¹ 54	5 ¹¹ 40	S 18
S 19	4 29 51	6 ¹¹ 32'39	23 ¹¹ 1	25 ¹¹ 59	24 ¹¹ 42	26 ¹¹ 30	0 ¹¹ 55	9 ¹¹ 37	20 ¹¹ 45	13 ¹¹ 22	29 ¹¹ 52	21 ¹¹ 27	22 ¹¹ 55	22 ¹¹ 0	5 ¹¹ 42	S 19
M20	4 33 47	7 ¹¹ 33'34	5 ¹¹ 16	27 ¹¹ 32	25 ¹¹ 53	27 ¹¹ 16	1 ¹¹ 4	9 ¹¹ 38	20 ¹¹ 48	13 ¹¹ 21	29 ¹¹ 52	21 ¹¹ 19	22 ¹¹ 52	22 ¹¹ 7	5 ¹¹ 45	M20
T 21	4 37 44	8 ¹¹ 34'30	17 ¹¹ 40	29 ¹¹ 5	27 ¹¹ 4	28 ¹¹ 2	1 ¹¹ 12	9 ¹¹ 40	20 ¹¹ 51	13 ¹¹ 19	29 ¹¹ 52	21 ¹¹ 12	22 ¹¹ 49	22 ¹¹ 14	5 ¹¹ 47	T 21
W22	4 41 40	9 ¹¹ 35'27	29 ¹¹ 43	0 ¹¹ 39	28 ¹¹ 16	28 ¹¹ 47	1 ¹¹ 20	9 ¹¹ 42	20 ¹¹ 54	13 ¹¹ 18	29 ¹¹ 53	21 ¹¹ 8	22 ¹¹ 46	22 ¹¹ 20	5 ¹¹ 49	W22
T 23	4 45 37	10 ¹¹ 36'25	11 ¹¹ 28	2 ¹¹ 12	29 ¹¹ 27	29 ¹¹ 33	1 ¹¹ 28	9 ¹¹ 44	20 ¹¹ 57	13 ¹¹ 16	29 ¹¹ 53	21 ¹¹ 5	22 ¹¹ 42	22 ¹¹ 27	5 ¹¹ 51	T 23
F 24	4 49 34	11 ¹¹ 37'24	23 ¹¹ 27	3 ¹¹ 45	0 ¹¹ 38	0 ¹¹ 19	1 ¹¹ 36	9 ¹¹ 46	20 ¹¹ 59	13 ¹¹ 15	29 ¹¹ 54	21 ¹¹ D 5	22 ¹¹ 39	22 ¹¹ 34	5 ¹¹ 53	F 24
S 25	4 53 30	12 ¹¹ 38'24	5 ¹¹ 13	5 ¹¹ 19	1 ¹¹ 50	1 ¹¹ 5	1 ¹¹ 44	9 ¹¹ 49	21 ¹¹ 2	13 ¹¹ 13	29 ¹¹ 54	21 ¹¹ 6	22 ¹¹ 36	22 ¹¹ 40	5 ¹¹ 55	S 25
S 26	4 57 27	13 ¹¹ 39'26	17 ¹¹ 1	6 ¹¹ 52	3 ¹¹ 1	1 ¹¹ 51	1 ¹¹ 51	9 ¹¹ 51	21 ¹¹ 5	13 ¹¹ 12	29 ¹¹ 55	21 ¹¹ 8	22 ¹¹ 33	22 ¹¹ 47	5 ¹¹ 57	S 26
M27	5 1 23	14 ¹¹ 40'28	28 ¹¹ 55	8 ¹¹ 26	4 ¹¹ 13	2 ¹¹ 37	1 ¹¹ 59	9 ¹¹ 53	21 ¹¹ 7	13 ¹¹ 11	29 ¹¹ 56	21 ¹¹ 9	22 ¹¹ 30	22 ¹¹ 53	5 ¹¹ 59	M27
T 28	5 5 20	15 ¹¹ 41'31	10 ¹¹ 59	10 ¹¹ 0	5 ¹¹ 25	3 ¹¹ 23	2 ¹¹ 6	9 ¹¹ 56	21 ¹¹ 10	13 ¹¹ 9	29 ¹¹ 56	21 ¹¹ R10	22 ¹¹ 26	23 ¹¹ 0	6 ¹¹ 0	T 28
W29	5 9 16	16 ¹¹ 42'35	23 ¹¹ 20	11 ¹¹ 34	6 ¹¹ 37	4 ¹¹ 10	2 ¹¹ 13	9 ¹¹ 59	21 ¹¹ 13	13 ¹¹ 8	29 ¹¹ 57	21 ¹¹ 10	22 ¹¹ 23	23 ¹¹ 7	6 ¹¹ 2	W29
T 30	5 13 13	17 ¹¹ 43'40	6 ¹¹ 2	13 ¹¹ 7	7 ¹¹ 49	4 ¹¹ 56	2 ¹¹ 21	10 ¹¹ 1	21 ¹¹ 15	13 ¹¹ 7	29 ¹¹ 57	21 ¹¹ 9	22 ¹¹ 20	23 ¹¹ 13	6 ¹¹ 3	T 30

Delta T = 171.59 sec

Julian Calendar 1 Nov. 1553 == Greg. Calendar 11 Nov. 1553

DECEMBER 1553 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	5 17 9	18°44'46	19° 9	14°41	9° 1	5°42	2°27	10° 4	21°17	13°R 5	29°58	21°R 6	22°17	23°20	6° 4	F 1
S 2	5 21 6	19°45'53	2°44	16°16	10°13	6°28	2°34	10° 7	21°20	13° 4	29°59	21° 1	22°14	23°27	6° 5	S 2
S 3	5 25 3	20°47'01	16°46	17°50	11°26	7°15	2°41	10°10	21°22	13° 3	29°59	20°57	22°11	23°33	6° 6	S 3
M 4	5 28 59	21°48'10	1°13	19°24	12°38	8° 1	2°47	10°13	21°25	13° 1	0° 0	20°52	22° 7	23°40	6° 7	M 4
T 5	5 32 56	22°49'19	16° 1	20°59	13°51	8°47	2°54	10°17	21°27	13° 0	0° 1	20°48	22° 4	23°47	6° 8	T 5
W 6	5 36 52	23°50'29	1° 3	22°34	15° 3	9°34	3° 0	10°20	21°29	12°59	0° 2	20°45	22° 1	23°53	6° 9	W 6
T 7	5 40 49	24°51'39	16° 5	24° 9	16°16	10°20	3° 6	10°23	21°31	12°58	0° 3	20°D44	21°58	24° 0	6° 9	T 7
F 8	5 44 45	25°52'50	1° 4	25°44	17°28	11° 7	3°12	10°27	21°33	12°57	0° 4	20°45	21°55	24° 7	6°10	F 8
S 9	5 48 42	26°54'00	15°50	27°20	18°41	11°54	3°18	10°30	21°36	12°56	0° 4	20°46	21°52	24°13	6°10	S 9
S 10	5 52 38	27°55'11	0°18	28°55	19°54	12°40	3°23	10°34	21°38	12°54	0° 5	20°47	21°48	24°20	6°10	S 10
M11	5 56 35	28°56'21	14°24	0°31	21° 7	13°27	3°29	10°38	21°40	12°53	0° 6	20°48	21°45	24°27	6°R10	M11
T 12	6 0 32	29°57'32	28° 9	2° 8	22°20	14°13	3°34	10°42	21°42	12°52	0° 7	20°R49	21°42	24°33	6°10	T 12
W13	6 4 28	0°58'42	11°Y32	3°44	23°33	15° 0	3°39	10°46	21°43	12°51	0° 8	20°49	21°39	24°40	6°10	W13
T 14	6 8 25	1°59'52	24°36	5°21	24°46	15°47	3°44	10°50	21°45	12°50	0° 9	20°47	21°36	24°46	6° 9	T 14
F 15	6 12 21	3° 1'02	7°23	6°58	25°59	16°34	3°49	10°54	21°47	12°49	0°10	20°45	21°32	24°53	6° 9	F 15
S 16	6 16 18	4° 2'12	19°55	8°35	27°12	17°21	3°53	10°58	21°49	12°48	0°11	20°43	21°29	25° 0	6° 8	S 16
S 17	6 20 14	5° 3'22	2°11	10°13	28°25	18° 7	3°58	11° 3	21°51	12°48	0°12	20°40	21°26	25° 6	6° 8	S 17
M18	6 24 11	6° 4'31	14°24	11°51	29°38	18°54	4° 2	11° 7	21°52	12°47	0°13	20°38	21°23	25°13	6° 7	M18
T 19	6 28 8	7° 5'41	26°25	13°29	0°51	19°41	4° 6	11°11	21°54	12°46	0°14	20°36	21°20	25°20	6° 6	T 19
W 20	6 32 4	8° 6'51	8°20	15° 8	2° 5	20°28	4°10	11°16	21°55	12°45	0°15	20°35	21°17	25°26	6° 5	W 20
T 21	6 36 1	9° 8'00	20°10	16°47	3°18	21°15	4°14	11°21	21°57	12°44	0°16	20°D35	21°13	25°33	6° 4	T 21
F 22	6 39 57	10° 9'09	1°15	18°26	4°31	22° 2	4°17	11°25	21°58	12°43	0°18	20°35	21°10	25°40	6° 3	F 22
S 23	6 43 54	11°10'18	13°45	20° 5	5°45	22°49	4°21	11°30	22° 0	12°43	0°19	20°36	21° 7	25°46	6° 1	S 23
S 24	6 47 50	12°11'27	25°35	21°45	6°58	23°36	4°24	11°35	22° 1	12°42	0°20	20°36	21° 4	25°53	6° 0	S 24
M25	6 51 47	13°12'36	7°43	23°24	8°12	24°23	4°27	11°40	22° 2	12°41	0°21	20°37	21° 1	26° 0	5°58	M25
T 26	6 55 43	14°13'45	19°37	25° 4	9°26	25°10	4°30	11°45	22° 4	12°41	0°22	20°38	20°58	26° 6	5°57	T 26
W 27	6 59 40	15°14'54	1°57	26°43	10°39	25°57	4°33	11°50	22° 5	12°40	0°24	20°39	20°54	26°13	5°55	W 27
T 28	7 3 37	16°16'02	14°35	28°23	11°53	26°44	4°35	11°55	22° 6	12°40	0°25	20°R39	20°51	26°20	5°53	T 28
F 29	7 7 33	17°17'11	27°34	0° 2	13° 6	27°32	4°37	12° 1	22° 7	12°39	0°26	20°39	20°48	26°26	5°51	F 29
S 30	7 11 30	18°18'19	10°15	1°40	14°20	28°19	4°40	12° 6	22° 8	12°39	0°27	20°38	20°45	26°33	5°49	S 30
S 31	7 15 26	19°19'27	24°15	3°18	15°34	29° 6	4°41	12°11	22° 9	12°38	0°29	20°38	20°42	26°39	5°47	S 31