



# Astrodienst Ephemeris Tables for the year 1549

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 1549  
geocentric

JANUARY 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 20 14	20°33'58	11°44' 4	19°R42	4°15	20°820	11°V57	19°338	28°R35	1°R20	23°58	27°R31	27°21	3°17	26°R24	T 1
W 2	7 24 11	21°35'06	23°12	18°324	5°21	20°34	12° 4	19°45	28°35	1°D20	23°59	27°18	27°17	3°24	26°120	W 2
T 3	7 28 7	22°36'12	5°17	17° 9	6°27	20°47	12°11	19°52	28°34	1°20	24° 0	27° 8	27°14	3°31	26°17	T 3
F 4	7 32 4	23°37'18	17°57	15°57	7°33	21° 2	12°19	19°59	28°34	1°20	24° 2	27° 1	27°11	3°37	26°13	F 4
S 5	7 36 0	24°38'23	0°V30	14°52	8°39	21°17	12°27	20° 6	28°33	1°20	24° 3	26°57	27° 8	3°44	26°10	S 5
S 6	7 39 57	25°39'26	13°23	13°55	9°46	21°32	12°34	20°13	28°32	1°20	24° 5	26°55	27° 5	3°51	26° 6	S 6
M 7	7 43 54	26°40'29	26°36	13° 6	10°52	21°48	12°42	20°21	28°32	1°20	24° 7	26°55	27° 1	3°57	26° 3	M 7
T 8	7 47 50	27°41'31	10°11	12°26	11°59	22° 5	12°50	20°28	28°31	1°21	24° 8	26°55	26°58	4° 4	26° 0	T 8
W 9	7 51 47	28°42'31	24°11	11°54	13° 6	22°21	12°58	20°35	28°30	1°21	24°10	26°53	26°55	4°11	25°57	W 9
T 10	7 55 43	29°43'31	8°11	11°32	14°14	22°39	13° 7	20°42	28°29	1°21	24°11	26°49	26°52	4°18	25°53	T 10
F 11	7 59 40	0°44'29	23°24	11°19	15°21	22°57	13°15	20°49	28°28	1°21	24°13	26°43	26°49	4°24	25°50	F 11
S 12	8 3 36	1°45'26	8°29	11°D14	16°29	23°15	13°24	20°56	28°27	1°22	24°14	26°33	26°46	4°31	25°47	S 12
S 13	8 7 33	2°46'22	23°42	11°17	17°37	23°33	13°33	21° 3	28°26	1°22	24°16	26°22	26°42	4°38	25°44	S 13
M14	8 11 29	3°47'17	8°12	11°27	18°45	23°53	13°42	21°10	28°25	1°23	24°18	26°10	26°39	4°44	25°42	M14
T 15	8 15 26	4°48'11	23°50	11°45	19°53	24°12	13°51	21°17	28°24	1°23	24°19	25°59	26°36	4°51	25°39	T 15
W16	8 19 23	5°49'04	8°24	12° 8	21° 1	24°32	14° 0	21°24	28°23	1°23	24°21	25°50	26°33	4°58	25°36	W16
T 17	8 23 19	6°49'56	22°31	12°37	22°10	24°52	14° 9	21°31	28°21	1°24	24°22	25°44	26°30	5° 5	25°33	T 17
F 18	8 27 16	7°50'47	6°12	13°12	23°18	25°13	14°19	21°38	28°20	1°25	24°24	25°41	26°27	5°11	25°31	F 18
S 19	8 31 12	8°51'38	19°15	13°51	24°27	25°34	14°28	21°45	28°19	1°25	24°26	25°39	26°23	5°18	25°28	S 19
S 20	8 35 9	9°52'27	1°15	14°35	25°36	25°55	14°38	21°51	28°17	1°26	24°27	25°D39	26°20	5°25	25°26	S 20
M21	8 39 5	10°53'15	14°19	15°22	26°45	26°16	14°48	21°58	28°16	1°26	24°29	25°R39	26°17	5°31	25°23	M21
T 22	8 43 2	11°54'03	26°24	16°14	27°54	26°38	14°58	22° 5	28°14	1°27	24°31	25°38	26°14	5°38	25°21	T 22
W23	8 46 58	12°54'49	8°12	17° 8	29° 4	27° 1	15° 8	22°12	28°13	1°28	24°32	25°35	26°11	5°45	25°19	W23
T 24	8 50 55	13°55'35	20°10	18° 6	0°13	27°23	15°18	22°19	28°11	1°29	24°34	25°30	26° 7	5°52	25°16	T 24
F 25	8 54 52	14°56'19	2°12	19° 7	1°23	27°46	15°28	22°25	28°10	1°29	24°36	25°21	26° 4	5°58	25°14	F 25
S 26	8 58 48	15°57'02	13°52	20°10	2°32	28°10	15°39	22°32	28° 8	1°30	24°37	25°10	26° 1	6° 5	25°12	S 26
S 27	9 2 45	16°57'44	25°49	21°15	3°42	28°33	15°49	22°39	28° 6	1°31	24°39	24°58	25°58	6°12	25°10	S 27
M28	9 6 41	17°58'25	7°52	22°23	4°52	28°57	16° 0	22°46	28° 4	1°32	24°41	24°44	25°55	6°18	25° 8	M28
T 29	9 10 38	18°59'04	20° 4	23°33	6° 2	29°21	16°11	22°52	28° 3	1°33	24°42	24°31	25°52	6°25	25° 7	T 29
W30	9 14 34	19°59'41	2°12	24°45	7°12	29°46	16°21	22°59	28° 1	1°34	24°44	24°20	25°48	6°32	25° 5	W30
T 31	9 18 31	21°00'17	14°15	25°35	8°22	0°11	16°V32	23°12	27°59	1°35	24°46	24°11	25°45	6°39	25°11	T 31

Delta T = 182.02 sec Julian Calendar 1 Jan. 1549 == Greg. Calendar 11 Jan. 1549

FEBRUARY 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 22 27	22°05'1	27°35	27°13	9°33	0°11	16°V43	23°12	27°R57	1°36	24°48	24°R 5	25°42	6°35	25°R 2	F 1
S 2	9 26 24	23° 1'24	10°V26	28°30	10°43	1° 1	16°55	23°18	27°55	1°37	24°49	24°12	25°39	6°52	25°11	S 2
S 3	9 30 21	24° 1'55	23°30	29°48	11°53	1°26	17° 6	23°25	27°53	1°38	24°51	24°D 1	25°36	6°59	24°59	S 3
M 4	9 34 17	25° 2'24	6°47	18° 8	13° 4	1°52	17°17	23°31	27°51	1°39	24°53	24° 2	25°32	7° 5	24°58	M 4
T 5	9 38 14	26° 2'51	20°22	2°29	14°14	2°18	17°29	23°38	27°49	1°40	24°54	24°R 2	25°29	7°12	24°56	T 5
W 6	9 42 10	27° 3'16	4°11	3°52	15°25	2°44	17°40	23°44	27°47	1°41	24°56	24° 2	25°26	7°19	24°55	W 6
T 7	9 46 7	28° 3'39	18°24	5°15	16°36	3°10	17°52	23°50	27°45	1°42	24°58	24° 0	25°23	7°26	24°54	T 7
F 8	9 50 3	29° 4'00	2°51	6°40	17°46	3°37	18° 4	23°57	27°43	1°44	24°59	23°56	25°20	7°32	24°53	F 8
S 9	9 54 0	0°12'42	17°33	8° 6	18°57	4° 4	18°15	24° 3	27°40	1°45	25° 1	23°50	25°17	7°39	24°52	S 9
S 10	9 57 56	1° 4'37	2°12	9°33	20° 8	4°31	18°27	24° 9	27°38	1°46	25° 3	23°42	25°13	7°46	24°52	S 10
M11	10 1 53	2° 4'52	17°11	11° 2	21°19	4°58	18°39	24°15	27°36	1°48	25° 5	23°34	25°10	7°52	24°51	M11
T 12	10 5 50	3° 5'06	1°11	12°31	22°30	5°26	18°51	24°21	27°34	1°49	25° 6	23°26	25° 7	7°59	24°50	T 12
W13	10 9 46	4° 5'17	16°16	14° 2	23°41	5°53	19° 3	24°27	27°31	1°50	25° 8	23°19	25° 4	8° 6	24°50	W13
T 14	10 13 43	5° 5'27	0°18	15°34	24°53	6°21	19°16	24°33	27°29	1°52	25°10	23°15	25° 1	8°13	24°49	T 14
F 15	10 17 39	6° 5'35	13°56	17° 7	26° 4	6°49	19°28	24°39	27°27	1°53	25°11	23°12	24°58	8°19	24°49	F 15
S 16	10 21 36	7° 5'42	27° 7	18°41	27°15	7°18	19°40	24°45	27°24	1°55	25°13	23°D12	24°54	8°26	24°49	S 16
S 17	10 25 32	8° 5'47	9°15	20°16	28°26	7°46	19°53	24°51	27°22	1°56	25°15	23°13	24°51	8°33	24°49	S 17
M18	10 29 29	9° 5'50	22°21	21°52	29°38	8°15	20° 5	24°57	27°20	1°58	25°16	23°15	24°48	8°39	24°D49	M18
T 19	10 33 25	10° 5'52	4°32	23°29	0°49	8°43	20°18	25° 2	27°17	1°59	25°18	23°16	24°45	8°46	24°49	T 19
W20	10 37 22	11° 5'52	16°30	25° 7	2° 1	9°12	20°31	25° 8	27°15	2° 1	25°20	23°R16	24°42	8°53	24°49	W20
T 21	10 41 18	12° 5'50	28°23	26°47	3°12	9°41	20°43	25°14	27°12	2° 2	25°21	23°14	24°38	9° 0	24°49	T 21
F 22	10 45 15	13° 5'47	10°18	28°28	4°24	10°11	20°56	25°19	27°10	2° 4	25°23	23°11	24°35	9° 6	24°49	F 22
S 23	10 49 12	14° 5'42	22° 8	0°18	5°36	10°40	21° 9	25°25	27° 7	2° 5	25°24	23° 6	24°32	9°13	24°50	S 23
S 24	10 53 8	15° 5'35	4°19	1°52	6°48	11° 9	21°22	25°30	27° 5	2° 7	25°26	22°59	24°29	9°20	24°50	S 24
M25	10 57 5	16° 5'26	16°19	3°36	7°59	11°39	21°35	25°35	27° 2	2° 9	25°28	22°52	24°26	9°26	24°51	M25
T 26	11 1 1	17° 5'16	28°41	5°22	9°11	12° 9	21°48	25°41	27° 0	2°10	25°29	22°46	24°23	9°33	24°51	T 26
W27	11 4 58	18° 5'04	11°15	7° 8	10°23	12°39	22° 1	25°46	26°57	2°12	25°31	22°40	24°19	9°40	24°52	W27
T 28	11 8 54	19°12'49	24°13	8°15	11°35	13°11	22°V14	25°51	26°55	2°14	25°32	22°45	24°16	9°47	24°53	T 28

Delta T = 181.84 sec Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1549

## geocentric

MARCH 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 12 51	20°43'33"	7°3'33"	10°45'45"	12°47'47"	13°39'39"	22°27'27"	25°56'56"	26°R52	2°16'16"	25°34'34"	22°R33	24°13'13"	9°53'53"	24°II54	F 1
S 2	11 16 47	21°4'14"	20°16'16"	12°35'35"	13°59'59"	14°10'10"	22°41'41"	26°1'26"	26°49'49"	2°17'17"	25°36'36"	22°D31	24°10'10"	10°0'0"	24°55'55"	S 2
S 3	11 20 44	22°3'54"	3°8'41"	14°26'26"	15°11'11"	14°40'40"	22°54'54"	26°6'26"	26°47'47"	2°19'19"	25°37'37"	22°32'32"	24°7'24"	10°7'10"	24°56'56"	S 3
M 4	11 24 41	23°3'31"	17°1'17"	16°19'19"	16°23'23"	15°11'11"	23°7'23"	26°11'11"	26°44'44"	2°21'21"	25°39'39"	22°33'33"	24°4'24"	10°14'10"	24°57'57"	M 4
T 5	11 28 37	24°3'06"	1°11'51"	18°12'12"	17°35'35"	15°42'42"	23°21'21"	26°16'16"	26°42'42"	2°23'23"	25°40'40"	22°35'35"	24°0'24"	10°20'10"	24°58'58"	T 5
W 6	11 32 34	25°2'38"	15°2'20"	18°47'47"	16°13'13"	18°47'47"	23°34'34"	26°21'21"	26°39'39"	2°25'25"	25°42'42"	22°36'36"	23°57'57"	10°27'10"	25°0'25"	W 6
T 7	11 36 30	26°2'09"	29°9'29"	22°3'22"	19°59'59"	16°44'44"	23°48'48"	26°25'25"	26°36'36"	2°27'27"	25°43'43"	22°R36	23°54'54"	10°34'10"	25°1'25"	T 7
F 8	11 40 27	27°1'37"	13°24'24"	24°1'24"	21°11'11"	17°15'15"	24°1'24"	26°30'30"	26°34'34"	2°29'29"	25°45'45"	22°35'35"	23°51'51"	10°40'10"	25°3'25"	F 8
S 9	11 44 23	28°1'02"	27°44'44"	25°59'59"	22°23'23"	17°46'46"	24°15'15"	26°35'35"	26°31'31"	2°31'31"	25°46'46"	22°33'33"	23°48'48"	10°47'10"	25°4'25"	S 9
S 10	11 48 20	29°0'25"	12°8'6"	27°59'59"	23°35'35"	18°17'17"	24°29'29"	26°39'39"	26°29'29"	2°32'32"	25°48'48"	22°31'31"	23°44'44"	10°54'10"	25°6'25"	S 10
M 11	11 52 16	29°59'46"	26°26'26"	29°59'59"	24°47'47"	18°49'49"	24°42'42"	26°44'44"	26°26'26"	2°34'34"	25°49'49"	22°27'27"	23°41'41"	11°1'11"	25°8'25"	M 11
T 12	11 56 13	0°59'05"	10°38'38"	2°1'26"	19°20'20"	24°56'56"	26°48'48"	26°23'23"	2°36'36"	25°51'51"	22°24'24"	23°38'38"	11°7'11"	25°10'10"	25°10'10"	T 12
W 13	12 0 10	1°58'21"	24°39'39"	4°3'27"	19°52'52"	25°10'10"	26°52'52"	26°21'21"	2°38'38"	25°52'52"	22°22'22"	23°35'35"	11°14'14"	25°12'12"	25°12'12"	W 13
T 14	12 4 6	2°57'35"	8°23'23"	6°5'28"	28°24'24"	25°24'24"	26°56'56"	26°18'18"	2°40'40"	25°53'53"	22°20'20"	23°32'32"	11°21'21"	25°14'14"	25°14'14"	T 14
F 15	12 8 3	3°56'48"	21°49'49"	8°9'29"	29°37'37"	20°55'55"	25°38'38"	27°1'27"	26°16'16"	2°42'42"	25°55'55"	22°D20	23°29'29"	11°27'27"	25°16'16"	F 15
S 16	12 11 59	4°55'58"	4°55'58"	10°12'12"	0°49'49"	21°27'27"	25°51'51"	27°5'27"	26°13'13"	2°44'44"	25°56'56"	22°20'20"	23°25'25"	11°34'34"	25°18'18"	S 16
S 17	12 15 56	5°55'06"	17°40'40"	12°16'16"	2°1'21"	21°59'59"	26°5'26"	27°9'27"	26°10'10"	2°46'46"	25°58'58"	22°21'21"	23°22'22"	11°41'41"	25°20'20"	S 17
M 18	12 19 52	6°54'13"	0°7'14"	14°19'19"	3°14'22"	22°32'32"	26°19'19"	27°12'12"	26°8'26"	2°49'49"	25°59'59"	22°22'22"	23°19'19"	11°48'48"	25°22'22"	M 18
T 19	12 23 49	7°53'18"	12°20'20"	16°22'22"	4°26'26"	23°4'23"	26°33'33"	27°16'16"	26°5'26"	2°51'51"	26°0'26"	22°24'24"	23°16'16"	11°54'54"	25°25'25"	T 19
W 20	12 27 45	8°52'20"	24°22'22"	18°24'24"	5°38'38"	23°36'36"	26°47'47"	27°20'20"	26°3'26"	2°53'53"	26°2'26"	22°25'25"	23°13'13"	12°1'12"	25°27'27"	W 20
T 21	12 31 42	9°51'22"	6°17'17"	20°24'24"	6°51'51"	24°8'24"	27°1'27"	27°24'24"	26°0'26"	2°55'55"	26°3'26"	22°R25	23°9'23"	12°8'12"	25°30'30"	T 21
F 22	12 35 38	10°50'21"	18°10'18"	22°24'24"	8°3'24"	24°41'41"	27°15'15"	27°27'27"	25°58'58"	2°57'57"	26°4'26"	22°25'25"	23°6'23"	12°14'12"	25°33'33"	F 22
S 23	12 39 35	11°49'19"	0°55'55"	24°21'24"	9°16'16"	25°13'13"	27°29'29"	27°31'31"	25°55'55"	2°59'59"	26°6'26"	22°25'25"	23°3'23"	12°21'21"	25°35'35"	S 23
S 24	12 43 32	12°48'14"	12°8'12"	26°16'16"	10°28'28"	25°46'46"	27°44'44"	27°34'34"	25°53'53"	3°1'31"	26°7'26"	22°24'24"	23°0'23"	12°28'28"	25°38'38"	S 24
M 25	12 47 28	13°47'08"	24°21'24"	28°9'28"	11°41'41"	26°19'19"	27°58'58"	27°37'37"	25°50'50"	3°3'33"	26°8'26"	22°22'22"	22°57'57"	12°35'35"	25°41'41"	M 25
T 26	12 51 25	14°46'00"	6°49'49"	29°58'58"	12°53'53"	26°52'52"	28°12'12"	27°40'40"	25°48'48"	3°6'36"	26°9'26"	22°21'21"	22°54'54"	12°41'41"	25°44'44"	T 26
W 27	12 55 21	15°44'50"	19°34'34"	1°44'14"	14°6'27"	27°24'24"	28°26'26"	27°44'44"	25°46'46"	3°8'38"	26°10'10"	22°20'20"	22°50'50"	12°48'48"	25°47'47"	W 27
T 28	12 59 18	16°43'39"	2°36'36"	3°27'27"	15°19'19"	27°57'57"	28°40'40"	27°47'47"	25°43'43"	3°10'10"	26°12'12"	22°20'20"	22°47'47"	12°55'55"	25°50'50"	T 28
F 29	13 3 14	17°42'25"	15°56'56"	5°6'16"	16°31'31"	28°30'30"	28°54'54"	27°50'50"	25°41'41"	3°12'12"	26°13'13"	22°D20	22°44'44"	13°2'13"	25°54'54"	F 29
S 30	13 7 11	18°41'10"	29°34'34"	6°40'40"	17°44'44"	29°3'29"	29°9'29"	27°52'52"	25°39'39"	3°14'14"	26°14'14"	22°20'20"	22°41'41"	13°8'13"	25°57'57"	S 30
S 31	13 11 7	19°39'52"	13°25'25"	8°11'11"	18°56'56"	29°37'37"	29°23'23"	27°55'55"	25°36'36"	3°16'16"	26°15'15"	22°20'20"	22°38'38"	13°15'15"	26°II0	S 31

Delta T = 181.67 sec

Julian Calendar 1 March 1549 == Greg. Calendar 11 March 1549

APRIL 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 15 4	20°38'32"	27°8'29"	9°8'36"	20°49'9"	0°51'01"	29°37'37"	27°58'58"	25°R34	3°19'19"	26°16'16"	22°20'20"	22°35'35"	13°22'22"	26°II 4	M 1
T 2	13 19 1	21°37'11"	11°40'40"	10°57'10"	21°22'22"	0°43'43"	29°51'51"	28°0'28"	25°32'32"	3°21'21"	26°17'17"	22°20'20"	22°31'31"	13°28'28"	26°7'26"	T 2
W 3	13 22 57	22°35'47"	25°55'55"	12°13'13"	22°34'34"	1°17'17"	0°51'01"	28°3'28"	25°29'29"	3°23'23"	26°18'18"	22°R20	22°28'28"	13°35'35"	26°11'11"	W 3
T 4	13 26 54	23°34'21"	10°52'12"	13°24'24"	23°47'47"	1°50'50"	0°20'20"	28°5'28"	25°27'27"	3°25'25"	26°19'19"	22°20'20"	22°25'25"	13°42'42"	26°14'14"	T 4
F 5	13 30 50	24°32'52"	24°26'26"	14°30'30"	25°0'25"	2°24'24"	0°34'34"	28°8'28"	25°25'25"	3°28'28"	26°20'20"	22°D20	22°22'22"	13°49'49"	26°18'18"	F 5
S 6	13 34 47	25°31'22"	8°23'36"	15°31'31"	26°12'12"	2°57'57"	0°49'49"	28°10'10"	25°23'23"	3°30'30"	26°22'22"	22°20'20"	22°19'19"	13°55'55"	26°22'22"	S 6
S 7	13 38 43	26°29'49"	22°40'40"	16°26'26"	27°25'25"	3°31'31"	1°3'27"	28°12'12"	25°21'21"	3°32'32"	26°22'22"	22°20'20"	22°15'15"	14°2'14"	26°26'26"	S 7
M 8	13 42 40	27°28'14"	6°34'34"	17°15'15"	28°38'38"	4°4'44"	1°17'17"	28°14'14"	25°19'19"	3°34'34"	26°23'23"	22°21'21"	22°12'12"	14°9'14"	26°30'30"	M 8
T 9	13 46 36	28°26'36"	20°18'18"	18°0'18"	29°50'50"	4°38'38"	1°32'32"	28°16'16"	25°17'17"	3°37'37"	26°24'24"	22°21'21"	22°9'9"	14°15'15"	26°33'33"	T 9
W10	13 50 33	29°24'57"	3°51'51"	18°38'38"	1°3'31"	5°12'12"	1°46'46"	28°18'18"	25°15'15"	3°39'39"	26°25'25"	22°22'22"	22°6'6"	14°22'22"	26°37'37"	W10
T 11	13 54 30	0°23'16"	17°10'10"	19°11'11"	2°16'16"	5°46'46"	2°0'20"	28°20'20"	25°13'13"	3°41'41"	26°26'26"	22°R22	22°3'33"	14°29'29"	26°42'42"	T 11
F 12	13 58 26	1°21'33"	0°15'15"	19°38'38"	3°29'29"	6°20'20"	2°15'15"	28°21'21"	25°11'11"	3°43'43"	26°27'27"	22°22'22"	22°0'00"	14°36'36"	26°46'46"	F 12
S 13	14 2 23	2°19'48"	13°5'13"	20°0'00"	4°41'41"	6°54'54"	2°29'29"	28°23'23"	25°9'25"	3°46'46"	26°28'28"	22°22'22"	21°56'56"	14°42'42"	26°50'50"	S 13
S 14	14 6 19	3°18'01"	25°41'41"	20°16'16"	5°54'54"	7°28'28"	2°43'43"	28°24'24"	25°7'25"	3°48'48"	26°29'29"	22°20'20"	21°53'53"	14°49'49"	26°54'54"	S 14
M15	14 10 16	4°16'13"	8°7'7"	20°27'27"	7°7'7"	8°2'22"	2°57'57"	28°26'26"	25°5'25"	3°50'50"	26°30'30"	22°19'19"	21°50'50"	14°56'56"	26°59'59"	M15
T 16	14 14 12	5°14'23"	20°14'14"	20°R32	8°20'20"	8°36'36"	3°12'12"	28°27'27"	25°3'25"	3°52'52"	26°30'30"	22°17'17"	21°47'47"	15°3'15"	27°3'27"	T 16
W17	14 18 9	6°12'32"	2°16'16"	20°32'32"	9°32'32"	9°10'10"	3°26'26"	28°28'28"	25°1'25"	3°55'55"	26°31'31"	22°15'15"	21°44'44"	15°9'15"	27°7'27"	W17
T 18	14 22 5	7°10'39"	14°11'11"	20°26'26"	10°45'45"	9°44'44"	3°40'40"	28°29'29"	25°0'25"	3°57'57"	26°32'32"	22°14'14"	21°40'40"	15°16'16"	27°12'12"	T 18
F 19	14 26 2	8°8'44"	26°4'26"	20°16'16"	11°58'58"	10°19'19"	3°55'55"	28°30'30"	24°58'58"	3°59'59"	26°33'33"	22°13'13"	21°37'37"	15°23'23"	27°16'16"	F 19
S 20	14 29 59	9°6'48"	7°55'59"	20°1'20"	13°11'11"	10°53'53"	4°9'49"	28°31'31"	24°56'56"	4°1'31"	26°33'33"	22°D12	21°34'34"	15°29'29"	27°21'21"	S 20
S 21	14 33 55	10°4'51"	20°1'20"	19°42'42"	14°24'24"	11°27'27"	4°23'23"	28°32'32"	24°55'55"	4°4'44"	26°34'34"	22°12'12"	21°31'31"	15°36'36"	27°26'26"	S 21
M22	14 37 52	11°2'52"	2°14'14"	19°19'19"	15°37'37"	12°2'22"	4°38'38"	28°33'33"	24°53'53"	4°6'6"	26°35'35"	22°13'13"	21°28'28"	15°43'43"	27°30'30"	M22
T 23	14 41 48	12°0'52"	14°43'43"	18°52'52"	16°49'49"	12°36'36"	4°52'52"	28°34'34"	24°52'42"	4°8'8"	26°36'36"	22°15'15"	21°25'25"	15°50'50"	27°35'35"	T 23
W24	14 45 45	12°58'51"	27°31'31"	18°23'23"	18°2'18"	13°11'11"	5°6'6"	28°34'34"	24°50'50"	4°10'10"	26°36'36"	22°16'16"	21°21'21"	15°56'56"	27°40'40"	W24
T 25	14 49 41	13°56'48"	10°42'42"	17°51'51"	19°15'15"	13°45'45"	5°20'20"	28°34'34"	24°49'49"	4°13'13"	26°37'37"	22°17'17"	21°18'18"	16°3'33"	27°45'45"	T 25
F 26	14 53 38	14°54'44"	24°15'15"	17°17'17"	20°28'28"	14°20'20"	5°35'35"	28°34'34"	24°47'47"	4°15'15"	26°37'37"	22°R18	21°15'15"	16°10'10"	27°50'50"	F 26
S 27	14 57 34	15°52'38"	8°11'11"	16°42'42"	21°41'41"	14°55'55"	5°49'49"	28°35'35"	24°46'46"	4°17'17"	26°38'38"	22°17'17"	21°12'12"	16°16'16"	27°55'55"	S 27
S 28	15 1 31	16°50'31"	22°27'27"	16°6'6"	22°54'54"	15°29'29"	6°3'33"	28°35'35"	24°45'45"	4°19'19"	26°38'38"	22°15'15"	21°9'9"	16°23'23"	28°0'00"	S 28
M29	15 5 27	17°48'23"	6°15'58"	15°31'31"	24°7'7"	16°29'29"	6°17'17"	28°R35	24°44'44"	4°21'21"	26°39'39"	22°12'12"	21°6'6"	16°30'30"	28°5'28"	M29
T 30	15 9 24	18°46'13"	21°11'37"	14°58'56"	25°12'02"	16°33'39"	6°31'31"	28°35'35"	24°44'44"	4°24'24"	26°39'39"	22°11'11"	21°2'22"	16°37'37"	28°II 10	T 30

# ASTRODIENST EPHEMERIS for the year 1549

## geocentric

MAY 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 13 21	19°8'44"01	6°58'18"	14°R22	26°Y33	17°14	6°8'45"	28°R35	24°R41	4°8'26"	26°39	22°R 5	20°59	16°343	28°115	W 1
T 2	15 17 17	20°41'48"	20°54	13°8'50"	27°46	17°49	6°59	28°34	24°40	4°28	26°40	22°2	20°56	16°50	28°20	T 2
F 3	15 21 14	21°39'32"	5°19'19"	13°20	28°58	18°24	7°14	28°34	24°39	4°30	26°40	21°59	20°53	16°57	28°26	F 3
S 4	15 25 10	22°37'16"	19°31	12°54	0°8'11"	18°59	7°28	28°33	24°38	4°32	26°41	21°D58	20°50	17°4	28°31	S 4
S 5	15 29 7	23°34'57"	3°17'26"	12°30	1°24	19°34	7°42	28°33	24°37	4°35	26°41	21°59	20°46	17°10	28°36	S 5
M 6	15 33 3	24°32'37"	17°6	12°10	2°37	20°9	7°56	28°32	24°36	4°37	26°41	22°0	20°43	17°17	28°42	M 6
T 7	15 37 0	25°30'15"	0°23'30"	11°53	3°50	20°44	8°10	28°31	24°35	4°39	26°42	22°2	20°40	17°24	28°47	T 7
W 8	15 40 56	26°27'52"	13°39	11°41	5°3	21°19	8°23	28°31	24°34	4°41	26°42	22°3	20°37	17°30	28°52	W 8
T 9	15 44 53	27°25'27"	26°35	11°33	6°16	21°54	8°37	28°30	24°34	4°43	26°42	22°R 3	20°34	17°37	28°58	T 9
F 10	15 48 50	28°23'01"	9°11'19"	11°D30	7°29	22°29	8°51	28°29	24°33	4°45	26°42	22°2	20°31	17°44	29°3	F 10
S 11	15 52 46	29°20'34"	21°51	11°30	8°42	23°5	9°5	28°27	24°32	4°47	26°42	21°58	20°27	17°51	29°9	S 11
S 12	15 56 43	0°11'18"06	4°17'13"	11°36	9°55	23°40	9°19	28°26	24°32	4°49	26°43	21°54	20°24	17°57	29°15	S 12
M13	16 0 39	1°15'36"	16°26	11°45	11°8	24°15	9°33	28°25	24°31	4°52	26°43	21°47	20°21	18°4	29°20	M13
T 14	16 4 36	2°13'06"	28°31	12°0	12°21	24°51	9°46	28°23	24°31	4°54	26°43	21°40	20°18	18°11	29°26	T 14
W15	16 8 32	3°10'34"	10°32'29"	12°19	13°34	25°26	10°0	28°22	24°30	4°56	26°43	21°33	20°15	18°17	29°32	W15
T 16	16 12 29	4°8'02"	22°23	12°42	14°47	26°1	10°14	28°20	24°30	4°58	26°43	21°26	20°12	18°24	29°37	T 16
F 17	16 16 25	5°5'28"	4°15	13°9	16°0	26°37	10°27	28°19	24°30	5°0	26°43	21°20	20°8	18°31	29°43	F 17
S 18	16 20 22	6°2'54"	16°10	13°41	17°13	27°12	10°41	28°17	24°29	5°2	26°R43	21°16	20°5	18°38	29°49	S 18
S 19	16 24 19	7°0'20"	28°10	14°17	18°26	27°48	10°55	28°15	24°29	5°4	26°43	21°14	20°2	18°44	29°55	S 19
M20	16 28 15	7°57'44"	10°11'21"	14°56	19°39	28°24	11°8	28°13	24°29	5°6	26°43	21°D14	19°59	18°51	0°5	M20
T 21	16 32 12	8°55'08"	22°47	15°40	20°53	28°59	11°21	28°11	24°29	5°8	26°43	21°14	19°56	18°58	0°6	T 21
W22	16 36 8	9°52'31"	5°Y33	16°28	22°6	29°35	11°35	28°9	24°29	5°10	26°43	21°16	19°52	19°5	0°12	W22
T 23	16 40 5	10°49'54"	18°43	17°19	23°19	0°11	11°48	28°7	24°D29	5°12	26°43	21°R16	19°49	19°11	0°18	T 23
F 24	16 44 1	11°47'16"	2°28'20"	18°14	24°32	0°46	12°2	28°4	24°29	5°13	26°43	21°16	19°46	19°18	0°24	F 24
S 25	16 47 58	12°44'37"	16°25	19°13	25°45	1°22	12°15	28°2	24°29	5°15	26°43	21°13	19°43	19°25	0°30	S 25
S 26	16 51 54	13°41'58"	0°11'54"	20°15	26°58	1°58	12°28	28°0	24°29	5°17	26°42	21°9	19°40	19°31	0°36	S 26
M27	16 55 51	14°39'19"	15°44	21°21	28°11	2°34	12°41	27°57	24°29	5°19	26°42	21°2	19°37	19°38	0°42	M27
T 28	16 59 48	15°36'39"	0°23'46"	22°30	29°25	3°10	12°54	27°54	24°29	5°21	26°42	20°54	19°33	19°45	0°48	T 28
W29	17 3 44	16°33'57"	15°51	23°42	0°11'38"	3°45	13°7	27°52	24°29	5°23	26°42	20°46	19°30	19°52	0°54	W29
T 30	17 7 41	17°31'16"	0°13'49"	24°57	1°51	4°21	13°20	27°49	24°30	5°24	26°41	20°39	19°27	19°58	1°0	T 30
F 31	17 11 37	18°11'28"33	15°13'31"	26°16	3°11	4°57	13°33	27°346	24°30	5°26	26°41	20°33	19°24	20°3	1°6	F 31

Delta T = 181.31 sec

Julian Calendar 1 May 1549 == Greg. Calendar 11 May 1549

JUNE 1549 JC

00:00 UT

Day	Sid.t	☉	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 15 34	19°11'25"49	29°15'53"	27°8'38"	4°11'17"	5°13'33"	13°8'46"	27°R43	24°31	5°8'28"	26°R41	20°R29	19°21	20°312	1°12	S 1
S 2	17 19 30	20°23'05"	13°17'52"	29° 4	5°31	6° 9	13°59	27°340	24°31	5°30	26°40	20°28	19°18	20°19	1°18	S 2
M 3	17 23 27	21°20'19"	27°27	0°11'32"	6°44	6°46	14°12	27°37	24°32	5°31	26°40	20°D28	19°14	20°25	1°25	M 3
T 4	17 27 24	22°17'33"	10°11'41"	2° 3	7°57	7°22	14°24	27°34	24°32	5°33	26°40	20°28	19°11	20°32	1°31	T 4
W 5	17 31 20	23°14'46"	23°37	3°38	9°10	7°58	14°37	27°31	24°33	5°35	26°39	20°R28	19° 8	20°39	1°37	W 5
T 6	17 35 17	24°11'59"	6°11'17"	5°15	10°24	8°34	14°50	27°27	24°34	5°36	26°39	20°27	19° 5	20°45	1°43	T 6
F 7	17 39 13	25° 9'11"	18°44	6°56	11°37	9°10	15° 2	27°24	24°34	5°38	26°38	20°24	19° 2	20°52	1°49	F 7
S 8	17 43 10	26° 6'22"	1°17'2	8°40	12°50	9°46	15°15	27°21	24°35	5°40	26°38	20°18	18°58	20°59	1°55	S 8
S 9	17 47 6	27° 3'33"	13°11	10°26	14° 4	10°23	15°27	27°17	24°36	5°41	26°37	20° 9	18°55	21° 6	2° 1	S 9
M10	17 51 3	28° 0'44"	25°15	12°16	15°17	10°59	15°39	27°14	24°37	5°43	26°37	19°59	18°52	21°12	2° 8	M10
T 11	17 54 59	28°57'55"	7°31'13"	14° 8	16°30	11°35	15°51	27°10	24°38	5°44	26°36	19°46	18°49	21°19	2°14	T 11
W12	17 58 56	29°55'05"	19° 8	16° 2	17°44	12°12	16° 4	27° 7	24°39	5°46	26°36	19°34	18°46	21°26	2°20	W12
T 13	18 2 53	0°52'15"	1°18 0	18° 0	18°57	12°48	16°16	27° 3	24°40	5°47	26°35	19°22	18°43	21°33	2°26	T 13
F 14	18 6 49	1°49'25"	12°52	19°59	20°10	13°24	16°28	26°59	24°41	5°49	26°34	19°12	18°39	21°39	2°32	F 14
S 15	18 10 46	2°46'36"	24°46	22° 1	21°24	14° 1	16°39	26°55	24°42	5°50	26°34	19° 4	18°36	21°46	2°39	S 15
S 16	18 14 42	3°43'46"	6°11'47"	24° 5	22°37	14°37	16°51	26°51	24°44	5°52	26°33	18°59	18°33	21°53	2°45	S 16
M17	18 18 39	4°40'56"	18°56	26°10	23°51	15°14	17° 3	26°48	24°45	5°53	26°32	18°56	18°30	21°59	2°51	M17
T 18	18 22 35	5°38'07"	1°Y20	28°17	25° 4	15°51	17°15	26°44	24°46	5°54	26°32	18°D55	18°27	22° 6	2°57	T 18
W19	18 26 32	6°35'18"	14° 2	0°25'25"	26°18	16°27	17°26	26°40	24°48	5°56	26°31	18°R55	18°24	22°13	3° 4	W19
T 20	18 30 28	7°32'29"	27° 8	2°34	27°31	17° 4	17°38	26°36	24°49	5°57	26°30	18°55	18°20	22°20	3°10	T 20
F 21	18 34 25	8°29'41"	10°8'41"	4°44	28°45	17°40	17°49	26°31	24°50	5°58	26°29	18°53	18°17	22°26	3°16	F 21
S 22	18 38 22	9°26'53"	24°43	6°54	29°58	18°17	18° 1	26°27	24°52	5°59	26°29	18°50	18°14	22°33	3°22	S 22
S 23	18 42 18	10°24'05"	9°11'4	1°12	18°54	18°12	26°23	24°54	6° 1	26°28	18°44	18°11	22°40	3°28	S 23	
M24	18 46 15	11°21'18"	24° 9	11°13	2°25	19°31	18°23	26°19	24°55	6° 2	26°27	18°35	18° 8	22°46	3°35	M24
T 25	18 50 11	12°18'31"	9°21	13°23	3°39	20° 7	18°34	26°15	24°57	6° 3	26°26	18°25	18° 4	22°53	3°41	T 25
W26	18 54 8	13°15'45"	24°39	15°31	4°52	20°44	18°45	26°11	24°59	6° 4	26°25	18°14	18° 1	23° 0	3°47	W26
T 27	18 58 4	14°12'58"	9°12'58"	17°38	6° 6	21°21	18°56	26° 6	25° 0	6° 5	26°24	18° 4	17°58	23° 7	3°53	T 27
F 28	19 2 1	15°10'12"	24°50	19°45	7°20	21°58	19° 7	26° 2	25° 2	6° 6	26°24	17°56	17°55	23°13	3°59	F 28
S 29	19 5 57	16° 7'26"	9°17'24"	21°50	8°33	22°35	19°17	25°58	25° 4	6° 7	26°23	17°50	17°52	23°20	4° 5	S 29
S 30	19 9 54	17°11'40"	23°17'32"	23°54	9°47	23°12	19°28	25°53	25° 6	6° 8	26°22	17°47	17°49	23°27	4°12	S 30

Delta T = 181.12 sec

Julian Calendar

## ASTRODIENST EPHEMERIS for the year 1549

geocentric

JULY 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 13 51	18°51'54"	7°11'11"	25°56'56"	11°56'11"	23°04'49"	19°08'38"	25°04'49"	25°08'08"	6°08'09"	26°02'21"	17°04'46"	17°04'45"	23°03'34"	4°04'18"	M 1
T 2	19 17 47	18°59'08"	20°25'27"	27°57'12"	12°14'24"	24°26'19"	19°49'25"	25°03'44"	25°10'10"	6°10'26"	26°02'20"	17°04'46"	17°42'23"	23°40'42"	4°24'24"	T 2
W 3	19 21 44	19°56'22"	3°11'17"	29°56'13"	13°28'25"	25°03'19"	19°59'25"	25°40'25"	25°12'12"	6°11'26"	26°19'17"	17°46'17"	17°39'23"	23°47'43"	4°30'43"	W 3
T 4	19 25 40	20°53'37"	15°50'10"	1°05'14"	14°42'25"	25°40'20"	20°09'25"	25°36'25"	25°14'12"	6°12'26"	26°18'17"	17°44'17"	17°36'23"	23°54'43"	4°36'43"	T 4
F 5	19 29 37	21°50'51"	28°09'03"	3°49'15"	15°56'26"	26°17'20"	20°19'25"	25°31'25"	25°16'16"	6°13'26"	26°17'17"	17°40'17"	17°33'24"	24°00'44"	4°42'42"	F 5
S 6	19 33 33	22°48'07"	10°17'17"	5°43'17"	17°09'26"	26°54'20"	20°29'25"	25°27'25"	25°18'18"	6°14'26"	26°16'17"	17°33'17"	17°30'24"	24°07'44"	4°48'48"	S 6
S 7	19 37 30	23°45'22"	22°18'07"	7°35'18"	18°23'27"	27°32'20"	20°39'25"	25°22'25"	25°21'16"	6°14'26"	26°15'17"	17°24'17"	17°26'24"	24°14'44"	4°54'44"	S 7
M 8	19 41 26	24°42'39"	4°35'15"	9°25'19"	19°37'28"	28°09'20"	20°49'25"	25°18'25"	25°23'16"	6°15'26"	26°14'17"	17°12'17"	17°23'24"	24°21'50"	5°00'44"	M 8
T 9	19 45 23	25°39'55"	16°08'11"	11°14'20"	20°51'28"	28°46'20"	20°58'25"	25°13'25"	25°25'16"	6°16'26"	26°13'16"	16°59'17"	17°20'24"	24°27'50"	5°06'44"	T 9
W10	19 49 20	26°37'13"	28°01'13"	13°01'22"	22°05'29"	29°23'21"	20°08'25"	25°09'25"	25°27'16"	6°17'26"	26°12'16"	16°46'17"	17°17'24"	24°34'52"	5°12'44"	W10
T 11	19 53 16	27°34'31"	9°54'14"	14°46'23"	23°19'00"	0°00'21"	21°17'25"	25°05'25"	25°30'16"	6°17'26"	26°10'16"	16°33'17"	17°14'24"	24°41'50"	5°18'44"	T 11
F 12	19 57 13	28°31'49"	21°49'16"	16°30'24"	24°32'00"	0°38'21"	21°26'25"	25°00'25"	25°32'16"	6°18'26"	26°09'16"	16°21'17"	17°10'24"	24°48'52"	5°24'44"	F 12
S 13	20 01 09	29°29'09"	3°47'18"	18°12'25"	25°46'10"	1°15'21"	21°36'24"	25°56'25"	25°35'16"	6°19'26"	26°08'16"	16°12'17"	17°07'24"	24°54'50"	5°30'44"	S 13
S 14	20 05 06	0°02'26"	15°51'19"	19°52'27"	27°00'15"	1°53'21"	21°45'24"	25°51'25"	25°37'16"	6°19'26"	26°07'16"	16°06'17"	17°04'25"	25°01'53"	5°36'44"	S 14
M15	20 09 02	1°23'51"	28°05'21"	21°30'28"	28°14'23"	2°30'21"	21°53'24"	25°47'25"	25°40'16"	6°20'26"	26°06'16"	16°03'17"	17°01'25"	25°08'54"	5°42'44"	M15
T 16	20 12 59	2°21'14"	10°17'30"	23°07'29"	29°28'03"	3°08'22"	22°02'24"	24°43'25"	25°42'16"	6°20'26"	26°05'16"	16°02'16"	16°58'25"	25°14'54"	5°47'44"	T 16
W17	20 16 55	3°18'38"	23°12'24"	24°42'00"	0°04'23"	3°45'22"	22°11'24"	24°38'25"	25°45'16"	6°21'26"	26°04'16"	16°02'16"	16°55'25"	25°21'53"	5°53'44"	W17
T 18	20 20 52	4°16'03"	6°15'26"	1°56'42"	1°56'42"	4°23'22"	22°19'24"	24°34'25"	25°48'16"	6°21'26"	26°03'16"	16°02'16"	16°51'25"	25°28'59"	5°59'44"	T 18
F 19	20 24 49	5°13'29"	19°42'27"	1°46'30"	1°50'30"	5°01'22"	22°28'24"	24°29'25"	25°50'16"	6°22'26"	26°01'16"	16°01'16"	16°48'25"	25°35'06"	6°05'44"	F 19
S 20	20 28 45	6°10'57"	3°11'36"	29°16'42"	4°24'53"	5°38'22"	22°36'24"	24°25'25"	25°53'16"	6°22'26"	26°00'15"	15°58'16"	16°45'25"	25°41'06"	6°10'44"	S 20
S 21	20 32 42	7°08'26"	17°58'00"	0°04'44"	5°38'6"	6°16'22"	22°44'24"	24°21'25"	25°56'16"	6°22'25"	25°59'15"	15°53'16"	16°42'25"	25°48'06"	6°16'44"	S 21
M22	20 36 38	8°05'56"	2°04'44"	2°11'6"	6°52'6"	6°54'22"	22°52'24"	24°17'25"	25°59'16"	6°23'25"	25°58'15"	15°46'16"	16°39'25"	25°55'06"	6°22'44"	M22
T 23	20 40 35	9°03'28"	17°50'33"	3°35'08"	8°06'7"	7°31'23"	23°00'24"	24°12'26"	26°01'16"	6°23'25"	25°57'15"	15°37'16"	16°35'26"	26°01'6"	6°27'44"	T 23
W24	20 44 31	10°01'00"	3°06'45"	4°58'9"	9°20'8"	8°09'23"	23°07'24"	24°08'26"	26°04'16"	6°23'25"	25°55'15"	15°28'16"	16°32'26"	26°08'6"	6°33'44"	W24
T 25	20 48 28	10°58'34"	18°20'06"	6°19'10"	10°35'8"	8°47'23"	23°15'24"	24°04'26"	26°07'16"	6°23'25"	25°54'15"	15°19'16"	16°29'26"	26°15'6"	6°39'44"	T 25
F 26	20 52 24	11°56'09"	3°00'23"	7°38'11"	11°49'9"	9°25'23"	23°22'24"	24°00'26"	26°10'16"	6°24'25"	25°53'15"	15°11'16"	16°26'26"	26°22'06"	6°44'44"	F 26
S 27	20 56 21	12°53'45"	18°05'08"	8°56'13"	13°03'10"	10°03'23"	23°30'23"	23°56'26"	26°13'16"	6°24'25"	25°52'15"	15°06'16"	16°23'26"	26°28'06"	6°50'44"	S 27
S 28	21 00 18	13°51'22"	2°04'21"	10°11'14"	14°17'10"	10°41'23"	23°37'23"	23°52'26"	26°16'16"	6°24'25"	25°50'15"	15°03'16"	16°20'26"	26°35'06"	6°55'44"	S 28
M29	21 04 14	14°49'00"	16°08'11"	11°24'15"	15°31'11"	11°19'23"	23°44'23"	23°48'26"	26°19'16"	6°24'25"	25°49'15"	15°03'16"	16°16'26"	26°42'06"	7°00'44"	M29
T 30	21 08 11	15°46'39"	29°27'12"	12°35'16"	16°45'11"	11°57'23"	23°50'23"	23°44'26"	26°22'16"	6°24'25"	25°48'15"	15°03'16"	16°13'26"	26°48'06"	7°06'44"	T 30
W31	21 12 07	16°04'41"	12°11'21"	13°04'18"	18°00'12"	12°35'23"	23°57'23"	23°40'26"	26°25'16"	6°24'25"	25°46'15"	15°04'16"	16°10'26"	26°55'06"	7°11'44"	W31

Delta T = 180.94 sec

Julian Calendar 1 July 1549 == Greg. Calendar 11 July 1549

AUGUST 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 16 4	17°02'40"	24°16'54	14°00'51	19°02'14	13°00'13	24°08'4	23°R36	26°00'28	6°R24	25°R45	15°R 4	16°00'7	27°02'2	7°02'16	T 1
F 2	21 20 0	18°39'42	7°00'11	15°55'20	20°28'13	13°51'24	24°10'23	23°03'32	26°32'16	6°R24	25°00'44	15°00'2	16°00'4	27°00'9	7°22'22	F 2
S 3	21 23 57	19°37'26	19°16'16	16°57'21	21°42'14	14°29'24	24°16'23	23°28'28	26°35'16	6°24'06	25°43'25	14°58'14	16°00'1	27°15'15	7°27'27	S 3
S 4	21 27 53	20°35'10	1°03'14	17°56'22	22°57'15	15°00'7	24°22'23	23°25'26	26°38'16	6°24'06	25°41'25	14°52'15	15°57'27	27°22'02	7°32'32	S 4
M 5	21 31 50	21°32'56	13°00'7	18°52'24	24°11'15	15°46'24	24°28'23	23°21'26	26°41'16	6°24'06	25°40'25	14°44'15	15°54'27	27°29'02	7°37'37	M 5
T 6	21 35 47	22°30'43	24°59'19	19°46'25	25°25'16	16°24'24	24°34'23	23°17'26	26°44'16	6°23'25	25°39'14	14°34'15	15°51'27	27°36'02	7°42'42	T 6
W 7	21 39 43	23°28'31	6°00'53	20°36'26	26°40'17	17°00'2	24°39'23	23°14'26	26°48'16	6°23'25	25°38'14	14°24'15	15°48'27	27°42'02	7°47'47	W 7
T 8	21 43 40	24°26'21	18°49'21	21°24'27	27°54'17	17°40'24	24°44'23	23°10'26	26°51'16	6°23'25	25°36'14	14°15'15	15°45'27	27°49'02	7°52'52	T 8
F 9	21 47 36	25°24'12	0°00'50	22°00'8	29°00'8	18°19'24	24°50'23	23°00'7	26°54'16	6°23'25	25°35'14	14°00'7	15°41'27	27°56'02	7°57'57	F 9
S 10	21 51 33	26°22'05	12°57'22	22°48'00	29°00'23	18°57'24	24°55'23	23°00'4	26°58'16	6°22'25	25°34'14	14°00'1	15°38'28	28°00'2	8°00'2	S 10
S 11	21 55 29	27°19'59	25°12'23	23°24'10	1°37'19	19°36'24	24°59'23	23°00'0	27°00'1	6°22'25	25°32'13	13°57'15	15°35'28	28°00'9	8°00'6	S 11
M12	21 59 26	28°17'55	7°00'35	23°57'25	2°51'20	20°14'25	25°00'4	22°57'27	27°00'5	6°22'25	25°31'13	13°55'15	15°32'28	28°16'08	8°11'42	M12
T 13	22 03 22	29°15'53	20°11'24	24°25'04	4°00'6	20°53'25	25°00'9	22°54'27	27°00'8	6°21'25	25°30'13	13°D55	15°29'28	28°23'08	8°16'42	T 13
W14	22 07 19	0°00'13	5°13'52	3°00'0	24°48'52	21°31'25	25°13'22	22°51'27	27°11'16	6°21'25	25°28'13	13°D56	15°26'28	28°29'08	8°21'42	W14
T 15	22 11 15	1°11'54	16°00'7	25°00'7	6°34'22	22°10'25	25°17'22	22°48'27	27°15'16	6°20'25	25°27'13	13°D58	15°22'28	28°36'08	8°25'42	T 15
F 16	22 15 12	2°00'57	29°33'25	25°20'07	7°49'22	22°48'25	25°21'22	22°45'27	27°18'16	6°20'25	25°26'13	13°R58	15°19'28	28°43'08	8°30'42	F 16
S 17	22 19 09	3°00'03	13°11'20	25°28'09	9°00'3	23°27'25	25°25'22	22°42'27	27°22'16	6°19'25	25°25'13	13°D58	15°16'28	28°49'08	8°34'42	S 17
S 18	22 23 05	4°00'11	27°30'25	25°R30	10°18'24	24°00'6	25°28'22	22°39'27	27°26'16	6°19'25	25°23'13	13°D56	15°13'28	28°56'08	8°39'42	S 18
M19	22 27 02	5°00'20	12°01'25	25°26'11	11°32'24	24°45'25	25°32'22	22°37'27	27°29'16	6°18'25	25°22'13	13°D52	15°10'29	29°00'3	8°43'42	M19
T 20	22 30 58	6°00'32	26°48'25	16°12'47	12°47'25	25°23'25	25°35'22	22°34'27	27°33'16	6°17'25	25°21'13	13°D47	15°00'7	29°10'08	8°47'42	T 20
W21	22 34 55	7°00'45	11°04'25	0°14'26	14°00'26	26°00'25	25°38'22	22°32'27	27°36'16	6°17'25	25°20'13	13°D42	15°00'3	29°16'08	8°51'42	W21
T 22	22 38 51	7°59'01	26°46'24	24°37'15	15°16'26	26°41'25	25°41'22	22°29'27	27°40'16	6°16'25	25°18'13	13°D37	15°00'0	29°23'08	8°56'42	T 22
F 23	22 42 48	8°57'18	11°00'39	24°00'8	16°30'27	27°20'25	25°44'22	22°27'27	27°43'16	6°15'25	25°17'13	13°D33	14°57'29	29°30'08	9°00'4	F 23
S 24	22 46 44	9°55'37	26°16'23	23°32'17	17°45'27	27°59'25	25°46'22	22°24'27	27°47'16	6°15'25	25°16'13	13°D30	14°54'29	29°36'08	9°00'4	S 24
S 25	22 50 41	10°53'58	10°03'22	22°51'18	18°59'28	28°38'25	25°48'22	22°22'27	27°51'16	6°14'25	25°15'13	13°D29	14°51'27	29°43'08	9°00'8	S 25
M26	22 54 38	11°52'20	24°22'22	22°00'3	20°14'25	29°17'25	25°50'22	22°20'27	27°54'16	6°13'25	25°13'13	13°D29	14°47'27	29°50'08	9°12'42	M26
T 27	22 58 34	12°50'44	7°00'46	21°11'21	21°28'29	29°56'25	25°52'22	22°18'27	27°58'16	6°12'25	25°12'13	13°D30	14°44'27	29°57'08	9°16'42	T 27
W28	23 02 31	13°49'10	20°45'20	20°14'22	22°43'00	0°00'35	25°54'22	22°16'28	28°00'2	6°11'25	25°11'13	13°D32	14°41'00	0°00'3	9°19'42	W28
T 29	23 06 27	14°47'37	3°00'22	19°15'23	23°57'10	1°15'25	25°56'22	22°14'28	28°00'5	6°10'25	25°10'13	13°D33	14°38'00	0°10'02	9°23'23	T 29
F 30	23 10 24	15°46'06	15°41'18	18°13'25	25°12'10	1°54'25	25°57'22	22°13'28	28°00'9	6°10'25	25°00'8	13°R34	14°35'00	0°17'02	9°27'27	F 30
S 31	23 14 20	16°00'44	27°00'47	17°00'10	26°00'26	2°00'33	25°00'58	22°00'11	28°00'13	6°00'9	25°00'7	13°00'33	14°00'32	0°00'24	9°00'30	S 31

## ASTRODIENST EPHEMERIS for the year 1549

geocentric

SEPTEMBER 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 18 17	17 <sup>h</sup> 43'09"	9 <sup>h</sup> 34'5"	16°R 8	27 <sup>h</sup> 41'	3 <sup>h</sup> 12'	25 <sup>h</sup> 59'	22°R 9	28 <sup>h</sup> 17'	6°R 8	25°R 6	13°R32	14 <sup>h</sup> 28'	0 <sup>h</sup> 30'	9 <sup>h</sup> 34'	S 1
M 2	23 22 13	18°41'43"	21°38'	15 <sup>h</sup> 8'	28°55'	3°52'	26° 0	22 <sup>h</sup> 8'	28°20'	6° 7	25° 5	13 <sup>h</sup> 29'	14°25'	0°37'	9°37'	M 2
T 3	23 26 10	19°40'19"	3 <sup>h</sup> 30'	14°12'	0 <sup>h</sup> 10'	4°31'	26° 0	22° 6	28°24'	6° 6	25° 4	13°25'	14°22'	0°44'	9°41'	T 3
W 4	23 30 7	20°38'57"	15°26'	13°21'	1°25'	5°11'	26° 0	22° 5	28°28'	6° 5	25° 3	13°21'	14°19'	0°50'	9°44'	W 4
T 5	23 34 3	21°37'36"	27°27'	12°37'	2°39'	5°50'	26°R 0	22° 4	28°32'	6° 3	25° 2	13°18'	14°16'	0°57'	9°47'	T 5
F 6	23 38 0	22°36'17"	9 <sup>h</sup> 36'	12° 0	3°54'	6°30'	26° 0	22° 3	28°35'	6° 2	25° 0	13°15'	14°12'	1° 4	9°50'	F 6
S 7	23 41 56	23°35'00"	21°55'	11°32'	5° 8	7° 9	26° 0	22° 2	28°39'	6° 1	24°59'	13°12'	14° 9	1°11'	9°53'	S 7
S 8	23 45 53	24°33'45"	4 <sup>h</sup> 25'	11°13'	6°23'	7°49'	26° 0	22° 1	28°43'	6° 0	24°58'	13°11'	14° 6	1°17'	9°56'	S 8
M 9	23 49 49	25°32'33"	17° 6	11°D 4	7°37'	8°28'	25°59'	22° 0	28°47'	5°59'	24°57'	13°D11	14° 3	1°24'	9°59'	M 9
T 10	23 53 46	26°31'22"	29°59'	11° 5	8°52'	9° 8	25°58'	21°59'	28°50'	5°58'	24°56'	13°12'	14° 0	1°31'	10° 2	T 10
W11	23 57 42	27°30'13"	13 <sup>h</sup> 8'	11°16'	10° 6	9°48'	25°57'	21°59'	28°54'	5°57'	24°55'	13°13'	13°57'	1°37'	10° 5	W11
T 12	0 1 39	28°29'07"	26°27'	11°37'	11°21'	10°27'	25°56'	21°58'	28°58'	5°55'	24°54'	13°14'	13°53'	1°44'	10° 7	T 12
F 13	0 5 35	29°28'03"	10 <sup>h</sup> 12'	12° 8	12°36'	11° 7	25°54'	21°58'	29° 2	5°54'	24°53'	13°15'	13°50'	1°51'	10°10'	F 13
S 14	0 9 32	0 <sup>h</sup> 27'02"	23°51'	12°48'	13°50'	11°47'	25°52'	21°57'	29° 6	5°53'	24°52'	13°16'	13°47'	1°58'	10°12'	S 14
S 15	0 13 29	1°26'03"	7 <sup>h</sup> 55'	13°37'	15° 5	12°27'	25°50'	21°57'	29° 9	5°51'	24°51'	13°R16	13°44'	2° 4	10°15'	S 15
M16	0 17 25	2°25'06"	22°11'	14°33'	16°19'	13° 7	25°48'	21°57'	29°13'	5°50'	24°50'	13°15'	13°41'	2°11'	10°17'	M16
T 17	0 21 22	3°24'11"	6 <sup>h</sup> 38'	15°37'	17°34'	13°47'	25°46'	21°D57	29°17'	5°49'	24°49'	13°14'	13°38'	2°18'	10°20'	T 17
W18	0 25 18	4°23'19"	21°10'	16°47'	18°49'	14°27'	25°43'	21°57'	29°21'	5°47'	24°48'	13°13'	13°34'	2°24'	10°22'	W18
T 19	0 29 15	5°22'29"	5 <sup>h</sup> 44'	18° 3	20° 3	15° 7	25°41'	21°57'	29°25'	5°46'	24°47'	13°12'	13°31'	2°31'	10°24'	T 19
F 20	0 33 11	6°21'41"	20°13'	19°25'	21°18'	15°47'	25°38'	21°58'	29°28'	5°45'	24°46'	13°11'	13°28'	2°38'	10°26'	F 20
S 21	0 37 8	7°20'56"	4 <sup>h</sup> 32'	20°50'	22°32'	16°27'	25°35'	21°58'	29°32'	5°43'	24°45'	13°11'	13°25'	2°45'	10°28'	S 21
S 22	0 41 4	8°20'12"	18°35'	22°20'	23°47'	17° 8	25°31'	21°58'	29°36'	5°42'	24°44'	13°D11	13°22'	2°51'	10°30'	S 22
M23	0 45 1	9°19'31"	2 <sup>h</sup> 18'	23°52'	25° 2	17°48'	25°28'	21°59'	29°40'	5°40'	24°44'	13°11'	13°18'	2°58'	10°31'	M23
T 24	0 48 58	10°18'51"	15°40'	25°28'	26°16'	18°28'	25°24'	22° 0	29°43'	5°39'	24°43'	13°11'	13°15'	3° 5	10°33'	T 24
W25	0 52 54	11°18'14"	28°41'	27° 5	27°31'	19° 9	25°20'	22° 0	29°47'	5°37'	24°42'	13°12'	13°12'	3°11'	10°35'	W25
T 26	0 56 51	12°17'38"	11 <sup>h</sup> 20'	28°44'	28°46'	19°49'	25°16'	22° 1	29°51'	5°36'	24°41'	13°12'	13° 9	3°18'	10°36'	T 26
F 27	1 0 47	13°17'04"	23°42'	0 <sup>h</sup> 25'	0 <sup>h</sup> 0	20°29'	25°12'	22° 2	29°54'	5°34'	24°40'	13°R12	13° 6	3°25'	10°38'	F 27
S 28	1 4 44	14°16'32"	5 <sup>h</sup> 51'	2° 6	1°15'	21°10'	25° 8	22° 3	29°58'	5°33'	24°40'	13°12'	13° 3	3°32'	10°39'	S 28
S 29	1 8 40	15°16'02"	17°49'	3°49'	2°29'	21°50'	25° 3	22° 4	0 <sup>h</sup> 2	5°31'	24°39'	13°D12	12°59'	3°38'	10°40'	S 29
M30	1 12 37	16°15'34"	29 <sup>h</sup> 42'	5 <sup>h</sup> 32'	3 <sup>h</sup> 44'	22°31'	24°58'	22 <sup>h</sup> 6'	0 <sup>h</sup> 6'	5°30'	24°38'	13°12'	12°56'	3°45'	10°41'	M30

Delta T = 180.58 sec

Julian Calendar 1 Sept. 1549 == Greg. Calendar 11 Sept. 1549

OCTOBER 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 16 33	17 <sup>h</sup> 15'07"	11 <sup>h</sup> 35'	7 <sup>h</sup> 15'	4 <sup>h</sup> 18'	23 <sup>h</sup> 12'	24°R54	22 <sup>h</sup> 7'	0 <sup>h</sup> 9'	5°R28	24°R37	13 <sup>h</sup> 12'	12 <sup>h</sup> 53'	3 <sup>h</sup> 52'	10 <sup>h</sup> 42'	T 1
W 2	1 20 30	18°14'42"	23°32'	8°58'	6°13'	23°52'	24°48'	22° 9	0°13'	5°R26	24°37'	13°13'	12°50'	3°58'	10°43'	W 2
T 3	1 24 27	19°14'19"	5 <sup>h</sup> 36'	10°41'	7°28'	24°33'	24°43'	22°10'	0°17'	5°25'	24°36'	13°13'	12°47'	4° 5	10°44'	T 3
F 4	1 28 23	20°13'58"	17°52'	12°24'	8°42'	25°14'	24°38'	22°12'	0°20'	5°23'	24°35'	13°14'	12°43'	4°12'	10°45'	F 4
S 5	1 32 20	21°13'38"	0 <sup>h</sup> 23'	14° 7	9°57'	25°55'	24°32'	22°14'	0°24'	5°22'	24°35'	13°15'	12°40'	4°19'	10°46'	S 5
S 6	1 36 16	22°13'21"	13° 8	15°50'	11°11'	26°35'	24°26'	22°15'	0°27'	5°20'	24°34'	13°R15	12°37'	4°25'	10°46'	S 6
M 7	1 40 13	23°13'05"	26°10'	17°32'	12°26'	27°16'	24°21'	22°17'	0°31'	5°18'	24°34'	13°15'	12°34'	4°32'	10°47'	M 7
T 8	1 44 9	24°12'52"	9 <sup>h</sup> 28'	19°14'	13°40'	27°57'	24°14'	22°19'	0°34'	5°17'	24°33'	13°14'	12°31'	4°39'	10°47'	T 8
W 9	1 48 6	25°12'41"	23° 1	20°55'	14°55'	28°38'	24° 8	22°22'	0°38'	5°15'	24°33'	13°12'	12°28'	4°45'	10°47'	W 9
T 10	1 52 2	26°12'31"	6 <sup>h</sup> 46'	22°36'	16°10'	29°19'	24° 2	22°24'	0°42'	5°13'	24°32'	13°11'	12°24'	4°52'	10°48'	T 10
F 11	1 55 59	27°12'24"	20°42'	24°17'	17°24'	0 <sup>h</sup> 0	23°55'	22°26'	0°45'	5°12'	24°32'	13° 9	12°21'	4°59'	10°48'	F 11
S 12	1 59 56	28°12'19"	4 <sup>h</sup> 45'	25°57'	18°39'	0°41'	23°49'	22°29'	0°48'	5°10'	24°31'	13° 8	12°18'	5° 6	10°R48	S 12
S 13	2 3 52	29°12'17"	18°53'	27°36'	19°53'	1°23'	23°42'	22°31'	0°52'	5° 8	24°31'	13° 7	12°15'	5°12'	10°48'	S 13
M14	2 7 49	0 <sup>h</sup> 12'17"	3 <sup>h</sup> 4	29°15'	21° 8	2° 4	23°35'	22°34'	0°55'	5° 7	24°30'	13°D 6	12°12'	5°19'	10°48'	M14
T 15	2 11 45	1°12'18"	17°16'	0 <sup>h</sup> 54'	22°22'	2°45'	23°28'	22°36'	0°59'	5° 5	24°30'	13° 7	12° 9	5°26'	10°47'	T 15
W16	2 15 42	2°12'22"	1 <sup>h</sup> 26'	2°32'	23°37'	3°26'	23°21'	22°39'	1° 2	5° 3	24°30'	13° 8	12° 5	5°32'	10°47'	W16
T 17	2 19 38	3°12'28"	15°32'	4° 9	24°51'	4° 8	23°14'	22°42'	1° 6	5° 2	24°29'	13° 9	12° 2	5°39'	10°47'	T 17
F 18	2 23 35	4°12'37"	29°33'	5°47'	26° 6	4°49'	23° 7	22°45'	1° 9	5° 0	24°29'	13°11'	11°59'	5°46'	10°46'	F 18
S 19	2 27 31	5°12'47"	13 <sup>h</sup> 24'	7°23'	27°20'	5°31'	22°59'	22°48'	1°12'	4°58'	24°29'	13°R11	11°56'	5°53'	10°46'	S 19
S 20	2 31 28	6°12'59"	27° 4	9° 0	28°35'	6°12'	22°52'	22°51'	1°15'	4°57'	24°29'	13°10'	11°53'	5°59'	10°45'	S 20
M21	2 35 24	7°13'13"	10 <sup>h</sup> 30'	10°35'	29°49'	6°54'	22°44'	22°55'	1°19'	4°55'	24°28'	13° 9	11°49'	6° 6	10°44'	M21
T 22	2 39 21	8°13'29"	23°41'	12°11'	1 <sup>h</sup> 4	7°35'	22°37'	22°58'	1°22'	4°53'	24°28'	13° 5	11°46'	6°13'	10°43'	T 22
W23	2 43 18	9°13'47"	6 <sup>h</sup> 34'	13°46'	2°19'	8°17'	22°29'	23° 1	1°25'	4°51'	24°28'	13° 1	11°43'	6°19'	10°42'	W23
T 24	2 47 14	10°14'06"	19°11'	15°21'	3°33'	8°59'	22°21'	23° 5	1°28'	4°50'	24°28'	12°57'	11°40'	6°26'	10°41'	T 24
F 25	2 51 11	11°14'27"	1 <sup>h</sup> 32'	16°55'	4°48'	9°41'	22°13'	23° 9	1°31'	4°48'	24°28'	12°52'	11°37'	6°33'	10°40'	F 25
S 26	2 55 7	12°14'50"	13°41'	18°29'	6° 2	10°22'	22° 5	23°12'	1°35'	4°46'	24°28'	12°48'	11°34'	6°39'	10°39'	S 26
S 27	2 59 4	13°15'13"	25°39'	20° 3	7°17'	11° 4	21°57'	23°16'	1°38'	4°45'	24°28'	12°45'	11°30'	6°46'	10°37'	S 27
M28	3 3 0	14°15'39"	7 <sup>h</sup> 32'	21°36'	8°31'	11°46'	21°49'	23°20'	1°41'	4°43'	24°27'	12°44'	11°27'	6°53'	10°36'	M28
T 29	3 6 57	15°16'05"	19°23'	23°10'	9°45'	12°28'	21°41'	23°24'	1°44'	4°41'	24°D27	12°D43	11°24'	7° 0	10°34'	T 29
W30	3 10 53	16°16'33"	1 <sup>h</sup> 19'	24°42'	11° 0	13°10'	21°33'	23°28'	1°47'	4°40'	24°27'	12°44'	11°21'	7° 6	10°33'	W30
T 31	3 14 50	17°17'03"	13 <sup>h</sup> 23'	26°15'	12°14'	13°15'	21°25'	23°32'	1°50'	4°38'	24°28'	12°46'	11°18'	7°13'	10°31'	T 31

Delta T = 180.40 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1549

## geocentric

NOVEMBER 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 18 47	18♐17'33	25♏41	27♐47	13♏29	14♐34	21°R17	23♏36	1♐53	4°R36	24♏28	12♐48	11♐15	7♏20	10°R29	F 1
S 2	3 22 43	19°18'05	8°V17	29°20	14°43	15°16	21♏8	23°40	1°55	4♏35	24°28	12°R49	11°11	7°26	10♏28	S 2
S 3	3 26 40	20°18'38	21°13	0♏51	15°58	15°58	21°0	23°45	1°58	4°33	24°28	12°49	11°8	7°33	10°26	S 3
M 4	3 30 36	21°19'13	4♏32	2°23	17°12	16°41	20°52	23°49	2°1	4°32	24°28	12°47	11°5	7°40	10°24	M 4
T 5	3 34 33	22°19'49	18°12	3°55	18°26	17°23	20°44	23°54	2°4	4°30	24°28	12°43	11°2	7°47	10°22	T 5
W 6	3 38 29	23°20'27	2♐12	5°26	19°41	18°5	20°36	23°58	2°7	4°28	24°28	12°37	10°59	7°53	10°19	W 6
T 7	3 42 26	24°21'06	16°27	6°57	20°55	18°48	20°28	24°3	2°9	4°27	24°28	12°30	10°55	8°0	10°17	T 7
F 8	3 46 22	25°21'47	0♏51	8°27	22°9	19°30	20°19	24°7	2°12	4°25	24°29	12°24	10°52	8°7	10°15	F 8
S 9	3 50 19	26°22'29	15°20	9°58	23°24	20°12	20°11	24°12	2°14	4°24	24°29	12°17	10°49	8°13	10°12	S 9
S 10	3 54 16	27°23'13	29°46	11°28	24°38	20°55	20°3	24°17	2°17	4°22	24°29	12°12	10°46	8°20	10°10	S 10
M11	3 58 12	28°23'58	14♏6	12°58	25°52	21°37	19°55	24°22	2°20	4°21	24°30	12°9	10°43	8°27	10°7	M11
T 12	4 2 9	29°24'45	28°16	14°27	27°7	22°20	19°47	24°27	2°22	4°19	24°30	12°D8	10°40	8°34	10°5	T 12
W13	4 6 5	0♏25'34	12♐14	15°56	28°21	23°3	19°39	24°32	2°24	4°18	24°30	12°9	10°36	8°40	10°2	W13
T 14	4 10 2	1°26'24	26°2	17°25	29°35	23°45	19°32	24°37	2°27	4°16	24°31	12°10	10°33	8°47	9°59	T 14
F 15	4 13 58	2°27'15	9♏38	18°53	0♏50	24°28	19°24	24°42	2°29	4°15	24°31	12°R11	10°30	8°54	9°56	F 15
S 16	4 17 55	3°28'08	23°3	20°20	2°4	25°11	19°16	24°48	2°31	4°13	24°32	12°10	10°27	9°0	9°53	S 16
S 17	4 21 51	4°29'02	6♐17	21°47	3°18	25°54	19°8	24°53	2°34	4°12	24°32	12°8	10°24	9°7	9°50	S 17
M18	4 25 48	5°29'58	19°20	23°13	4°32	26°37	19°1	24°58	2°36	4°11	24°33	12°2	10°21	9°14	9°47	M18
T 19	4 29 45	6°30'55	2♏12	24°38	5°47	27°20	18°53	25°4	2°38	4°9	24°33	11°54	10°17	9°20	9°44	T 19
W20	4 33 41	7°31'53	14°52	26°2	7°1	28°3	18°46	25°9	2°40	4°8	24°34	11°44	10°14	9°27	9°41	W20
T 21	4 37 38	8°32'51	27°19	27°25	8°15	28°46	18°39	25°15	2°42	4°7	24°34	11°33	10°11	9°34	9°38	T 21
F 22	4 41 34	9°33'51	9♏35	28°46	9°29	29°29	18°32	25°21	2°44	4°5	24°35	11°22	10°8	9°41	9°34	F 22
S 23	4 45 31	10°34'52	21°40	0♏5	10°43	0♏12	18°25	25°26	2°46	4°4	24°35	11°11	10°5	9°47	9°31	S 23
S 24	4 49 27	11°35'53	3♏36	1°23	11°58	0°55	18°18	25°32	2°48	4°3	24°36	11°3	10°1	9°54	9°27	S 24
M25	4 53 24	12°36'54	15°27	2°38	13°12	1°38	18°11	25°38	2°50	4°1	24°37	10°56	9°58	10°1	9°24	M25
T 26	4 57 20	13°37'57	27°16	3°51	14°26	2°22	18°4	25°44	2°52	4°0	24°38	10°52	9°55	10°7	9°20	T 26
W27	5 1 17	14°39'00	9♏9	5°0	15°40	3°5	17°58	25°50	2°54	3°59	24°38	10°51	9°52	10°14	9°17	W27
T 28	5 5 14	15°40'03	21°10	6°6	16°54	3°48	17°51	25°56	2°55	3°58	24°39	10°D51	9°49	10°21	9°13	T 28
F 29	5 9 10	16°41'07	3°V24	7°7	18°8	4°32	17°45	26°2	2°57	3°57	24°40	10°51	9°46	10°28	9°9	F 29
S 30	5 13 7	17°42'11	15°V58	8♏4	19°22	5♏15	17°39	26♏8	2♏59	3♏56	24♏41	10°R51	9♏42	10♏34	9♏6	S 30

Delta T = 180.21 sec

Julian Calendar 1 Nov. 1549 == Greg. Calendar 11 Nov. 1549

DECEMBER 1549 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 17 3	18♐43'16	28°V55	8♏55	20♏36	5♏59	17°R33	26♏14	3♏0	3°R54	24♏41	10°R50	9♏39	10♏41	9°R2	S 1
M 2	5 21 0	19°44'21	12♏20	9°40	21°50	6°42	17♏27	26°20	3°2	3♏53	24°42	10♏46	9°36	10°48	8♏58	M 2
T 3	5 24 56	20°45'26	26°11	10°18	23°4	7°26	17°21	26°26	3°3	3°52	24°43	10°39	9°33	10°54	8°54	T 3
W 4	5 28 53	21°46'32	10♐29	10°48	24°17	8°9	17°16	26°32	3°5	3°51	24°44	10°30	9°30	11°1	8°50	W 4
T 5	5 32 50	22°47'39	25°8	11°9	25°31	8°53	17°11	26°39	3°6	3°50	24°45	10°19	9°27	11°8	8°46	T 5
F 6	5 36 46	23°48'45	10♏1	11°20	26°45	9°37	17°5	26°45	3°7	3°49	24°46	10°8	9°23	11°14	8°42	F 6
S 7	5 40 43	24°49'53	24°58	11°R20	27°59	10°20	17°0	26°51	3°9	3°48	24°47	9°57	9°20	11°21	8°38	S 7
S 8	5 44 39	25°51'01	9♏50	11°9	29°12	11°4	16°56	26°58	3°10	3°48	24°48	9°49	9°17	11°28	8°34	S 8
M 9	5 48 36	26°52'09	24°29	10°47	0♏26	11°48	16°51	27°4	3°11	3°47	24°49	9°42	9°14	11°35	8°30	M 9
T 10	5 52 32	27°53'18	8♐51	10°12	1°40	12°32	16°47	27°11	3°12	3°46	24°50	9°39	9°11	11°41	8°26	T 10
W11	5 56 29	28°54'28	22°54	9°26	2°53	13°16	16°42	27°17	3°13	3°45	24°51	9°38	9°7	11°48	8°22	W11
T 12	6 0 25	29°55'38	6♏37	8°30	4°7	14°0	16°38	27°24	3°14	3°44	24°52	9°38	9°4	11°55	8°18	T 12
F 13	6 4 22	0♏56'48	20°1	7°24	5°21	14°44	16°34	27°31	3°15	3°43	24°53	9°38	9°1	12°1	8°14	F 13
S 14	6 8 19	1°57'59	3♐9	6°10	6°34	15°28	16°31	27°37	3°16	3°43	24°54	9°36	8°58	12°8	8°10	S 14
S 15	6 12 15	2°59'11	16°4	4°52	7°48	16°12	16°27	27°44	3°17	3°42	24°55	9°32	8°55	12°15	8°5	S 15
M16	6 16 12	4°0'23	28°47	3°30	9°1	16°56	16°24	27°51	3°18	3°41	24°56	9°24	8°52	12°21	8°1	M16
T 17	6 20 8	5°1'35	11♏19	2°9	10°14	17°41	16°21	27°57	3°18	3°41	24°58	9°14	8°48	12°28	7°57	T 17
W18	6 24 5	6°2'47	23°43	0°51	11°28	18°25	16°18	28°4	3°19	3°40	24°59	9°0	8°45	12°35	7°53	W18
T 19	6 28 1	7°3'59	5♏57	29♏37	12°41	19°9	16°15	28°11	3°20	3°40	25°0	8°46	8°42	12°42	7°48	T 19
F 20	6 31 58	8°5'11	18°4	28°31	13°54	19°53	16°12	28°18	3°20	3°39	25°1	8°31	8°39	12°48	7°44	F 20
S 21	6 35 54	9°6'23	0♏3	27°32	15°7	20°38	16°10	28°25	3°21	3°39	25°2	8°16	8°36	12°55	7°40	S 21
S 22	6 39 51	10°7'35	11°56	26°44	16°20	21°22	16°8	28°32	3°21	3°38	25°4	8°4	8°33	13°2	7°36	S 22
M23	6 43 48	11°8'46	23°45	26°5	17°34	22°7	16°6	28°39	3°21	3°38	25°5	7°55	8°29	13°8	7°32	M23
T 24	6 47 44	12°9'57	5♏33	25°36	18°47	22°51	16°4	28°45	3°22	3°37	25°6	7°48	8°26	13°15	7°27	T 24
W25	6 51 41	13°11'07	17°24	25°17	20°0	23°36	16°3	28°52	3°22	3°37	25°8	7°44	8°23	13°22	7°23	W25
T 26	6 55 37	14°12'17	29°22	25°7	21°12	24°20	16°2	28°59	3°22	3°37	25°9	7°43	8°20	13°28	7°19	T 26
F 27	6 59 34	15°13'26	11°V32	25°D7	22°25	25°5	16°0	29°6	3°22	3°36	25°10	7°43	8°17	13°35	7°15	F 27
S 28	7 3 30	16°14'35	24°1	25°15	23°38	25°50	16°0	29°13	3°22	3°36	25°12	7°43	8°13	13°42	7°11	S 28
S 29	7 7 27	17°15'43	6♏52	25°30	24°51	26°34	15°59	29°20	3°R22	3°36	25°13	7°41	8°10	13°49	7°6	S 29
M30	7 11 23	18°16'50	20°11	25°53	26°3	27°19	15°58	29°28	3°22	3°36	25°14	7°38	8°7	13°55	7°2	M30
T 31	7 15 20	19♏17'57	4♐1	26♏22	27♏16	28♏4	15♏58	29♏35	3♏22	3♏35	25♏16	7♏32	8♏4	14♏2	6♏58	T 31

Delta T = 180.03 sec

Julian Calendar