



# Astrodienst Ephemeris Tables for the year 1544

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 1544  
geocentric

JANUARY 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 17 8	19°34'20	8°Y 2	26°32	8°R 5	12°M 29	24°M 52	29°M 7	4°R 21	20°Y 7	17°3 3	3°17	4°5	9°II 57	19°R 28	T 1
W 2	7 21 5	20°47'26	20°28	27°43	7°36	13° 5	25° 3	29°13	4°M 19	20° 7	17° 5	3°R 17	4° 2	10° 3	19°8 27	W 2
T 3	7 25 1	21°48'32	28°38	28°57	7° 8	13°40	25°12	29°18	4°17	20° 8	17° 6	3°17	3°59	10°10	19°26	T 3
F 4	7 28 58	22°49'37	14°37	0°312	6°43	14°16	25°22	29°23	4°16	20° 8	17° 8	3°16	3°56	10°17	19°25	F 4
S 5	7 32 54	23°50'42	26°29	1°28	6°20	14°52	25°32	29°28	4°14	20° 8	17° 9	3°15	3°53	10°23	19°24	S 5
S 6	7 36 51	24°51'45	8°II 20	2°46	5°59	15°28	25°42	29°33	4°12	20° 9	17°11	3°14	3°50	10°30	19°23	S 6
M 7	7 40 47	25°52'47	20°11	4° 6	5°40	16° 4	25°51	29°38	4°10	20° 9	17°13	3°13	3°46	10°37	19°22	M 7
T 8	7 44 44	26°53'49	28°7	5°26	5°24	16°39	26° 1	29°43	4° 8	20°10	17°14	3°12	3°43	10°44	19°22	T 8
W 9	7 48 40	27°54'49	14° 9	6°48	5°10	17°15	26°10	29°48	4° 6	20°11	17°16	3°11	3°40	10°50	19°21	W 9
T 10	7 52 37	28°55'49	26°21	8°10	4°59	17°51	26°19	29°52	4° 5	20°11	17°18	3°11	3°37	10°57	19°20	T 10
F 11	7 56 34	29°56'47	8°II 43	9°34	4°50	18°26	26°28	29°57	4° 3	20°12	17°19	3°D 11	3°34	11° 4	19°20	F 11
S 12	8 0 30	0°57'45	21°16	10°59	4°44	19° 2	26°37	0°2 2	4° 0	20°13	17°21	3°11	3°31	11°10	19°19	S 12
S 13	8 4 27	1°58'42	4°M 2	12°24	4°40	19°37	26°46	0° 6	3°58	20°13	17°23	3°11	3°27	11°17	19°19	S 13
M 14	8 8 23	2°59'38	17° 1	13°51	4°D 39	20°13	26°55	0°11	3°56	20°14	17°24	3°R 11	3°24	11°24	19°19	M 14
T 15	8 12 20	4° 0'33	0°13	15°18	4°40	20°48	27° 4	0°15	3°54	20°15	17°26	3°11	3°21	11°30	19°18	T 15
W 16	8 16 16	5° 1'28	13°41	16°46	4°44	21°23	27°12	0°19	3°52	20°16	17°28	3°11	3°18	11°37	19°18	W 16
T 17	8 20 13	6° 2'21	27°23	18°15	4°50	21°59	27°21	0°24	3°50	20°17	17°30	3°11	3°15	11°44	19°18	T 17
F 18	8 24 9	7° 3'14	11°M 20	19°45	4°58	22°34	27°29	0°28	3°48	20°18	17°31	3°D 11	3°11	11°51	19°D 18	F 18
S 19	8 28 6	8° 4'06	25°31	21°15	5° 9	23° 9	27°37	0°32	3°45	20°18	17°33	3°11	3° 8	11°57	19°18	S 19
S 20	8 32 3	9° 4'57	9°354	22°47	5°21	23°44	27°45	0°36	3°43	20°19	17°35	3°12	3° 5	12° 4	19°18	S 20
M 21	8 35 59	10° 5'48	24°26	24°19	5°36	24°19	27°53	0°40	3°41	20°20	17°37	3°12	3° 2	12°11	19°18	M 21
T 22	8 39 56	11° 6'37	9°3 3	25°52	5°53	24°54	28° 1	0°43	3°38	20°21	17°38	3°13	2°59	12°17	19°19	T 22
W 23	8 43 52	12° 7'26	23°38	27°25	6°12	25°29	28° 8	0°47	3°36	20°23	17°40	3°13	2°56	12°24	19°19	W 23
T 24	8 47 49	13° 8'13	8°6 6	29° 0	6°33	26° 4	28°16	0°51	3°34	20°24	17°42	3°R 13	2°52	12°31	19°19	T 24
F 25	8 51 45	14° 8'58	22°21	0°35	6°55	26°39	28°23	0°54	3°31	20°25	17°44	3°13	2°49	12°37	19°20	F 25
S 26	8 55 42	15° 9'43	6°18	2°11	7°20	27°14	28°30	0°58	3°29	20°26	17°45	3°12	2°46	12°44	19°20	S 26
S 27	8 59 38	16°10'25	19°53	3°48	7°46	27°48	28°37	1° 1	3°26	20°27	17°47	3°10	2°43	12°51	19°21	S 27
M 28	9 3 35	17°11'06	3°Y 6	5°26	8°14	28°23	28°44	1° 5	3°24	20°28	17°49	3° 8	2°40	12°57	19°22	M 28
T 29	9 7 32	18°11'46	15°56	7° 4	8°43	28°57	28°51	1° 8	3°21	20°30	17°51	3° 6	2°37	13° 4	19°22	T 29
W 30	9 11 28	19°12'24	28°26	8°44	9°14	29°32	28°58	1°11	3°19	20°31	17°52	3° 4	2°33	13°11	19°23	W 30
T 31	9 15 25	20°13'00	10°8 40	10°24	9°347	0°2 6	29°M 4	1°2 14	3°M 16	20°Y 32	17°54	3°3 3	2°30	13°II 18	19°8 24	T 31

Delta T = 193.01 sec Julian Calendar 1 Jan. 1544 == Greg. Calendar 11 Jan. 1544

FEBRUARY 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 19 21	21°13'34	22°8 41	12°5 5	10°321	0°2 41	29°M 10	1°2 17	3°R 14	20°Y 33	17°56	3°D 3	2°27	13°II 24	19°8 25	F 1
S 2	9 23 18	22°14'07	4°II 34	13°47	10°56	1°15	29°17	1°20	3°M 11	20°35	17°58	3°3 4	2°24	13°31	19°26	S 2
S 3	9 27 14	23°14'37	16°24	15°30	11°32	1°49	29°23	1°22	3° 9	20°36	17°59	3° 5	2°21	13°38	19°27	S 3
M 4	9 31 11	24°15'06	28°16	17°14	12°10	2°23	29°28	1°25	3° 6	20°38	18° 1	3° 7	2°17	13°44	19°28	M 4
T 5	9 35 7	25°15'33	10°14	18°59	12°49	2°57	29°34	1°28	3° 4	20°39	18° 3	3° 8	2°14	13°51	19°29	T 5
W 6	9 39 4	26°15'59	22°23	20°44	13°29	3°31	29°40	1°30	3° 1	20°40	18° 5	3° 9	2°11	13°58	19°31	W 6
T 7	9 43 1	27°16'22	4°II 44	22°31	14°11	4° 5	29°45	1°32	2°58	20°42	18° 6	3°R 10	2° 8	14° 4	19°32	T 7
F 8	9 46 57	28°16'44	17°21	24°19	14°53	4°39	29°50	1°35	2°56	20°43	18° 8	3° 9	2° 5	14°11	19°33	F 8
S 9	9 50 54	29°17'03	0°M 14	26° 7	15°37	5°12	29°55	1°37	2°53	20°45	18°10	3° 7	2° 2	14°18	19°35	S 9
S 10	9 54 50	0°17'21	13°23	27°57	16°21	5°46	0°2 0	1°39	2°51	20°47	18°11	3° 4	1°58	14°24	19°37	S 10
M 11	9 58 47	1°17'38	26°47	29°47	17° 6	6°19	0° 5	1°41	2°48	20°48	18°13	2°59	1°55	14°31	19°38	M 11
T 12	10 2 43	2°17'52	10°25	1°39	17°53	6°53	0° 9	1°43	2°45	20°50	18°15	2°55	1°52	14°38	19°40	T 12
W 13	10 6 40	3°18'06	24°14	3°31	18°40	7°26	0°14	1°45	2°43	20°51	18°17	2°50	1°49	14°44	19°42	W 13
T 14	10 10 36	4°18'17	8°M 11	5°24	19°28	7°59	0°18	1°46	2°40	20°53	18°18	2°47	1°46	14°51	19°43	T 14
F 15	10 14 33	5°18'27	22°15	7°18	20°17	8°32	0°22	1°48	2°37	20°55	18°20	2°44	1°42	14°58	19°45	F 15
S 16	10 18 30	6°18'36	6°2 23	9°13	21° 7	9° 5	0°26	1°49	2°35	20°57	18°22	2°D 44	1°39	15° 5	19°47	S 16
S 17	10 22 26	7°18'43	20°33	11° 9	21°57	9°38	0°30	1°51	2°32	20°58	18°23	2°44	1°36	15°11	19°49	S 17
M 18	10 26 23	8°18'49	4°34	13° 5	22°48	10°11	0°33	1°52	2°30	21° 0	18°25	2°46	1°33	15°18	19°51	M 18
T 19	10 30 19	9°18'53	18°53	15° 1	23°40	10°44	0°36	1°53	2°27	21° 2	18°27	2°47	1°30	15°25	19°53	T 19
W 20	10 34 16	10°18'55	3°3 0	16°58	24°33	11°17	0°40	1°54	2°24	21° 4	18°28	2°R 48	1°27	15°31	19°56	W 20
T 21	10 38 12	11°18'56	17° 0	18°55	25°26	11°49	0°43	1°55	2°22	21° 5	18°30	2°47	1°23	15°38	19°58	T 21
F 22	10 42 9	12°18'54	0°151	20°51	26°20	12°21	0°45	1°56	2°19	21° 7	18°32	2°44	1°20	15°45	20° 0	F 22
S 23	10 46 5	13°18'51	14°29	22°48	27°14	12°54	0°48	1°57	2°17	21° 9	18°33	2°39	1°17	15°51	20° 3	S 23
S 24	10 50 2	14°18'46	27°52	24°43	28° 9	13°26	0°51	1°58	2°14	21°11	18°35	2°33	1°14	15°58	20° 5	S 24
M 25	10 53 59	15°18'38	10°Y 57	26°38	29° 4	13°58	0°53	1°58	2°12	21°13	18°36	2°25	1°11	16° 5	20° 7	M 25
T 26	10 57 55	16°18'29	23°44	28°32	0°3 0	14°30	0°55	1°59	2° 9	21°15	18°38	2°17	1° 8	16°11	20°10	T 26
W 27	11 1 52	17°18'18	6°14	0°Y 23	0°57	15° 1	0°57	1°59	2° 6	21°17	18°40	2°10	1° 4	16°18	20°13	W 27
T 28	11 5 48	18°18'04	18°28	2°13	1°54	15°33	0°58	2° 0	2° 4	21°19	18°41	2° 4	1° 1	16°25	20°15	T 28
F 29	11 9 45	19°17'48	0°II 30	4°Y 0	2°551	16°2 5	1°2 0	2°2 0	2°M 1	21°Y 21	18°43	2°3 0	0°58	16°II 31	20°8 18	F 29

Delta T = 192.82 sec Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1544

## geocentric

MARCH 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 13 41	20♈17'30	12♐23	5♊44	3♋49	16♌36	1♍1	2°R 0	1°R59	21♎23	18♏44	1°R58	0♐55	16♑38	20♒21	S 1
S 2	11 17 38	21°17'10	24°13	7°24	4°47	17° 7	1° 2	2♌ 0	1♎57	21°25	18°46	1°D58	0°52	16°45	20°24	S 2
M 3	11 21 34	22°16'47	6♊ 5	9° 0	5°46	17°38	1° 3	2° 0	1°54	21°27	18°47	1♏58	0°48	16°51	20°26	M 3
T 4	11 25 31	23°16'22	18° 4	10°32	6°45	18° 9	1° 4	2° 0	1°52	21°29	18°49	2° 0	0°45	16°58	20°29	T 4
W 5	11 29 28	24°15'55	0♑14	11°59	7°45	18°40	1° 5	1°59	1°49	21°31	18°50	2°R 0	0°42	17° 5	20°32	W 5
T 6	11 33 24	25°15'25	12°41	13°21	8°45	19°11	1° 5	1°59	1°47	21°33	18°52	2° 0	0°39	17°12	20°35	T 6
F 7	11 37 21	26°14'53	25°28	14°36	9°45	19°41	1° 5	1°58	1°45	21°35	18°53	1°57	0°36	17°18	20°39	F 7
S 8	11 41 17	27°14'19	8♐36	15°46	10°45	20°11	1°R 5	1°58	1°42	21°37	18°55	1°52	0°33	17°25	20°42	S 8
S 9	11 45 14	28°13'43	22° 6	16°49	11°46	20°41	1° 5	1°57	1°40	21°39	18°56	1°45	0°29	17°32	20°45	S 9
M10	11 49 10	29°13'05	5♌56	17°46	12°48	21°11	1° 5	1°56	1°38	21°41	18°58	1°36	0°26	17°38	20°48	M10
T 11	11 53 7	0♎12'24	20° 2	18°36	13°49	21°41	1° 4	1°55	1°36	21°43	18°59	1°26	0°23	17°45	20°51	T 11
W12	11 57 3	1°11'42	4♌19	19°18	14°51	22°11	1° 4	1°54	1°34	21°45	19° 0	1°17	0°20	17°52	20°55	W12
T 13	12 1 0	2°10'58	18°42	19°54	15°53	22°40	1° 3	1°53	1°31	21°48	19° 2	1° 9	0°17	17°58	20°58	T 13
F 14	12 4 56	3°10'12	3♌ 4	20°22	16°56	23°10	1° 2	1°52	1°29	21°50	19° 3	1° 3	0°14	18° 5	21° 1	F 14
S 15	12 8 53	4° 9'24	17°22	20°42	17°59	23°39	1° 0	1°51	1°27	21°52	19° 4	1° 0	0°10	18°12	21° 5	S 15
S 16	12 12 50	5° 8'35	1♊33	20°55	19° 2	24° 8	0°59	1°49	1°25	21°54	19° 6	0°D59	0° 7	18°18	21° 8	S 16
M17	12 16 46	6° 7'44	15°36	21°R 1	20° 5	24°36	0°57	1°48	1°23	21°56	19° 7	0°59	0° 4	18°25	21°12	M17
T 18	12 20 43	7° 6'51	29°29	21° 0	21° 9	25° 5	0°55	1°46	1°21	21°59	19° 8	0°R59	0° 1	18°32	21°16	T 18
W19	12 24 39	8° 5'56	13♌14	20°53	22°12	25°33	0°53	1°45	1°19	22° 1	19° 9	0°59	29♊58	18°38	21°19	W19
T 20	12 28 36	9° 5'00	26°48	20°38	23°16	26° 1	0°51	1°43	1°17	22° 3	19°11	0°56	29°54	18°45	21°23	T 20
F 21	12 32 32	10° 4'01	10♈13	20°18	24°21	26°29	0°49	1°41	1°15	22° 5	19°12	0°51	29°51	18°52	21°27	F 21
S 22	12 36 29	11° 3'01	23°28	19°52	25°25	26°57	0°46	1°39	1°14	22° 7	19°13	0°43	29°48	18°58	21°30	S 22
S 23	12 40 25	12° 1'58	6♊30	19°21	26°30	27°24	0°44	1°37	1°12	22°10	19°14	0°32	29°45	19° 5	21°34	S 23
M24	12 44 22	13° 0'54	19°20	18°46	27°35	27°51	0°41	1°35	1°10	22°12	19°15	0°20	29°42	19°12	21°38	M24
T 25	12 48 19	13°59'48	1♊56	18° 7	28°40	28°18	0°38	1°33	1° 8	22°14	19°17	0° 7	29°39	19°18	21°42	T 25
W26	12 52 15	14°58'39	14°18	17°25	29°45	28°45	0°34	1°31	1° 7	22°16	19°18	29♊55	29°35	19°25	21°46	W26
T 27	12 56 12	15°57'28	26°28	16°42	0♈51	29°12	0°31	1°28	1° 5	22°19	19°19	29°44	29°32	19°32	21°50	T 27
F 28	13 0 8	16°56'16	8♐27	15°57	1°56	29°38	0°27	1°26	1° 3	22°21	19°20	29°36	29°29	19°38	21°54	F 28
S 29	13 4 5	17°55'01	20°19	15°12	3° 2	0♊ 4	0°23	1°23	1° 2	22°23	19°21	29°30	29°26	19°45	21°58	S 29
S 30	13 8 1	18°53'44	2♊ 7	14°28	4° 8	0°29	0°19	1°21	1° 0	22°25	19°22	29°27	29°23	19°52	22° 2	S 30
M31	13 11 58	19°52'24	13♊58	13°45	5♈14	0♊55	0♌15	1♌18	0♎59	22°28	19°23	29♊26	29♊20	19♐58	22♌ 6	M31

Delta T = 192.65 sec

Julian Calendar 1 March 1544 == Greg. Calendar 11 March 1544

APRIL 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 15 54	20♎51'03	25♊55	13°R 5	6♈20	1♊20	0°R11	1°R15	0°R57	22♎30	19°24	29°R26	29♊16	20♐ 5	22♌10	T 1
W 2	13 19 51	21°49'39	8♏ 5	12°27	7°27	1°44	0♌ 7	1♌12	0♎56	22°32	19°25	29♊26	29°13	20°12	22°14	W 2
T 3	13 23 48	22°48'13	20°32	11°52	8°33	2° 9	0° 2	1° 9	0°55	22°34	19°26	29°25	29°10	20°19	22°18	T 3
F 4	13 27 44	23°46'44	3♐22	11°21	9°40	2°33	29♌57	1° 6	0°53	22°37	19°27	29°21	29° 7	20°25	22°22	F 4
S 5	13 31 41	24°45'14	16°37	10°55	10°47	2°57	29°52	1° 3	0°52	22°39	19°28	29°15	29° 4	20°32	22°27	S 5
S 6	13 35 37	25°43'41	0♌19	10°33	11°54	3°21	29°47	1° 0	0°51	22°41	19°29	29° 7	29° 0	20°39	22°31	S 6
M 7	13 39 34	26°42'07	14°26	10°16	13° 1	3°44	29°42	0°57	0°50	22°43	19°29	28°56	28°57	20°45	22°35	M 7
T 8	13 43 30	27°40'30	28°54	10° 3	14° 8	4° 7	29°37	0°54	0°49	22°46	19°30	28°44	28°54	20°52	22°39	T 8
W 9	13 47 27	28°38'52	13♌36	9°56	15°16	4°29	29°31	0°50	0°48	22°48	19°31	28°33	28°51	20°59	22°44	W 9
T 10	13 51 23	29°37'12	28°25	9°D53	16°23	4°52	29°26	0°47	0°47	22°50	19°32	28°23	28°48	21° 5	22°48	T 10
F 11	13 55 20	0♊35'30	13♌12	9°56	17°31	5°14	29°20	0°43	0°46	22°53	19°33	28°16	28°45	21°12	22°52	F 11
S 12	13 59 17	1°33'47	27°49	10° 3	18°39	5°35	29°14	0°40	0°45	22°55	19°33	28°11	28°41	21°19	22°57	S 12
S 13	14 3 13	2°32'02	12♊13	10°15	19°47	5°56	29° 8	0°36	0°44	22°57	19°34	28° 9	28°38	21°25	23° 1	S 13
M14	14 7 10	3°30'16	26°20	10°32	20°55	6°17	29° 2	0°33	0°43	22°59	19°35	28° 8	28°35	21°32	23° 6	M14
T 15	14 11 6	4°28'28	10♌11	10°54	22° 3	6°38	28°56	0°29	0°43	23° 1	19°36	28° 8	28°32	21°39	23°10	T 15
W16	14 15 3	5°26'38	23°45	11°19	23°11	6°57	28°49	0°25	0°42	23° 4	19°36	28° 8	28°29	21°45	23°15	W16
T 17	14 18 59	6°24'48	7♈ 4	11°50	24°19	7°17	28°43	0°21	0°41	23° 6	19°37	28° 5	28°25	21°52	23°19	T 17
F 18	14 22 56	7°22'55	20°10	12°24	25°28	7°36	28°36	0°17	0°41	23° 8	19°37	27°59	28°22	21°59	23°24	F 18
S 19	14 26 52	8°21'01	3♊ 4	13° 2	26°36	7°55	28°30	0°13	0°40	23°10	19°38	27°51	28°19	22° 5	23°28	S 19
S 20	14 30 49	9°19'06	15°46	13°44	27°45	8°13	28°23	0° 9	0°40	23°13	19°38	27°40	28°16	22°12	23°33	S 20
M21	14 34 46	10°17'09	28°18	14°29	28°54	8°31	28°16	0° 5	0°39	23°15	19°39	27°27	28°13	22°19	23°37	M21
T 22	14 38 42	11°15'11	10♊39	15°18	0♎ 2	8°48	28° 9	0° 1	0°39	23°17	19°39	27°14	28°10	22°25	23°42	T 22
W23	14 42 39	12°13'11	22°50	16°10	1°11	9° 5	28° 2	29♌57	0°39	23°19	19°40	27° 1	28° 6	22°32	23°46	W23
T 24	14 46 35	13°11'09	4♐51	17° 6	2°20	9°21	27°55	29°53	0°38	23°21	19°40	26°50	28° 3	22°39	23°51	T 24
F 25	14 50 32	14° 9'06	16°46	18° 4	3°29	9°37	27°48	29°49	0°38	23°23	19°41	26°42	28° 0	22°45	23°56	F 25
S 26	14 54 28	15° 7'01	28°35	19° 6	4°38	9°53	27°40	29°45	0°38	23°26	19°41	26°36	27°57	22°52	24° 0	S 26
S 27	14 58 25	16° 4'54	10♊22	20°11	5°48	10° 7	27°33	29°41	0°38	23°28	19°42	26°32	27°54	22°59	24° 5	S 27
M28	15 2 21	17° 2'46	22°12	21°18	6°57	10°22	27°26	29°36	0°D38	23°30	19°42	26°D31	27°51	23° 5	24° 9	M28
T 29	15 6 18	18° 0'36	4♏ 8	22°28	8° 6	10°35	27°18	29°32	0°38	23°32	19°42	26°31	27°47	23°12	24°14	T 29
W30	15 10 15	18°58'24	16♏16	23°41	9♎16	10♊49	27♌11	29♌28	0♎38	23°34	19°43	26°R31	27♊44	23♐19	24♌19	W30

Delta T = 192.46 sec

Julian Calendar

**ASTRODIENST EPHEMERIS for the year 1544**  
**geocentric**

**MAY 1544 JC**

**00:00 UT**

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 14 11	19°8'56"10	28°24'1	24°57'57	10°25'25	11°3'1	27°R 3	29°R23	0°38'38	23°36'36	19°43'43	26°R31	27°34'1	23°22'25	24°8'23	T 1
F 2	15 18 8	20°53'55	11°29'29	26°15'15	11°34'34	11°13'13	26°M.56	29°M.19	0°38'38	23°38'38	19°43'43	26°32'29	27°38'38	23°32'32	24°28'28	F 2
S 3	15 22 4	21°51'38	24°43'43	27°35'35	12°44'44	11°25'25	26°48'48	29°15'15	0°38'38	23°40'40	19°43'43	26°25'25	27°35'35	23°39'39	24°33'33	S 3
S 4	15 26 1	22°49'19	8°26'26	28°58'58	13°54'54	11°36'36	26°41'41	29°10'10	0°39'39	23°42'42	19°43'43	26°19'19	27°31'31	23°45'45	24°37'37	S 4
M 5	15 29 57	23°46'59	22°38'38	0°23'23	15°3'3	11°46'46	26°33'33	29°6'6	0°39'39	23°44'44	19°44'44	26°11'11	27°28'28	23°52'52	24°42'42	M 5
T 6	15 33 54	24°44'38	7°15'15	1°51'51	16°13'13	11°55'55	26°25'25	29°1'1	0°39'39	23°46'46	19°44'44	26°2'2	27°25'25	23°59'59	24°47'47	T 6
W 7	15 37 50	25°42'15	22°11'11	3°21'21	17°23'23	12°5'5	26°18'18	28°57'57	0°40'40	23°48'48	19°44'44	25°53'53	27°22'22	24°5'5	24°51'51	W 7
T 8	15 41 47	26°39'51	7°18'18	4°54'54	18°33'33	12°13'13	26°10'10	28°53'53	0°40'40	23°50'50	19°44'44	25°45'45	27°19'19	24°12'12	24°56'56	T 8
F 9	15 45 44	27°37'25	22°25'25	6°29'29	19°43'43	12°21'21	26°3'3	28°48'48	0°41'41	23°52'52	19°44'44	25°39'39	27°16'16	24°19'19	25°1'1	F 9
S 10	15 49 40	28°34'59	7°22'22	8°6'6	20°53'53	12°28'28	25°55'55	28°44'44	0°41'41	23°54'54	19°44'44	25°35'35	27°12'12	24°25'25	25°5'5	S 10
S 11	15 53 37	29°32'32	22°4'4	9°46'46	22°3'3	12°34'34	25°47'47	28°39'39	0°42'42	23°56'56	19°R44	25°D34	27°9'9	24°32'32	25°10'10	S 11
M12	15 57 33	0°30'03	6°24'24	11°28'28	23°13'13	12°40'40	25°40'40	28°35'35	0°43'43	23°58'58	19°44'44	25°34'34	27°6'6	24°39'39	25°15'15	M12
T 13	16 1 30	1°27'34	20°22'22	13°12'12	24°23'23	12°45'45	25°32'32	28°30'30	0°44'44	24°0'0	19°44'44	25°35'35	27°3'3	24°45'45	25°19'19	T 13
W14	16 5 26	2°25'04	3°15'15	14°59'59	25°34'34	12°49'49	25°25'25	28°26'26	0°44'44	24°2'2	19°44'44	25°R36	27°0'0	24°52'52	25°24'24	W14
T 15	16 9 23	3°22'33	17°12'12	16°48'48	26°44'44	12°53'53	25°17'17	28°21'21	0°45'45	24°4'4	19°44'44	25°35'35	26°57'57	24°59'59	25°29'29	T 15
F 16	16 13 19	4°20'02	0°9'9	18°39'39	27°54'54	12°56'56	25°10'10	28°17'17	0°46'46	24°5'5	19°44'44	25°32'32	26°53'53	25°5'5	25°33'33	F 16
S 17	16 17 16	5°17'29	12°50'50	20°32'32	29°5'5	12°58'58	25°2'2	28°13'13	0°47'47	24°7'7	19°44'44	25°27'27	26°50'50	25°12'12	25°38'38	S 17
S 18	16 21 13	6°14'56	25°18'18	22°28'28	0°15'15	12°59'59	24°55'55	28°8'8	0°48'48	24°9'9	19°43'43	25°20'20	26°47'47	25°19'19	25°42'42	S 18
M19	16 25 9	7°12'22	7°35'35	24°26'26	1°26'26	13°R 0	24°47'47	28°4'4	0°49'49	24°11'11	19°43'43	25°11'11	26°44'44	25°25'25	25°47'47	M19
T 20	16 29 6	8°9'48	19°43'43	26°26'26	2°36'36	13°0'0	24°40'40	28°0'0	0°50'50	24°13'13	19°43'43	25°3'3	26°41'41	25°32'32	25°52'52	T 20
W21	16 33 2	9°7'12	1°43'43	28°28'28	3°47'47	12°59'59	24°33'33	27°55'55	0°51'51	24°14'14	19°43'43	24°54'54	26°37'37	25°39'39	25°56'56	W21
T 22	16 36 59	10°4'36	13°37'37	0°32'32	4°58'58	12°58'58	24°26'26	27°51'51	0°53'53	24°16'16	19°42'42	24°47'47	26°34'34	25°45'45	26°1'1	T 22
F 23	16 40 55	11°1'59	25°27'27	2°37'37	6°9'9	12°55'55	24°19'19	27°47'47	0°54'54	24°18'18	19°42'42	24°41'41	26°31'31	25°52'52	26°5'5	F 23
S 24	16 44 52	11°59'21	7°21'21	4°44'44	7°19'19	12°52'52	24°12'12	27°42'42	0°55'55	24°19'19	19°42'42	24°38'38	26°28'28	25°59'59	26°10'10	S 24
S 25	16 48 48	12°56'48	19°2'2	6°53'53	8°30'30	12°48'48	24°5'5	27°38'38	0°57'57	24°21'21	19°42'42	24°D36	26°25'25	26°5'5	26°15'15	S 25
M26	16 52 45	13°54'03	0°53'53	9°3'3	9°41'41	12°44'44	23°58'58	27°34'34	0°58'58	24°23'23	19°41'41	24°36'36	26°22'22	26°12'12	26°19'19	M26
T 27	16 56 42	14°51'22	12°51'51	11°13'13	10°52'52	12°38'38	23°51'51	27°30'30	1°0'0	24°24'24	19°41'41	24°37'37	26°18'18	26°19'19	26°24'24	T 27
W28	17 0 38	15°48'41	25°0'0	13°25'25	12°3'3	12°32'32	23°44'44	27°26'26	1°1'1	24°26'26	19°40'40	24°39'39	26°15'15	26°25'25	26°28'28	W28
T 29	17 4 35	16°45'58	7°26'26	15°36'36	13°14'14	12°25'25	23°38'38	27°22'22	1°3'3	24°27'27	19°40'40	24°40'40	26°12'12	26°32'32	26°33'33	T 29
F 30	17 8 31	17°43'15	20°11'11	17°48'48	14°25'25	12°18'18	23°31'31	27°18'18	1°4'4	24°29'29	19°39'39	24°R40	26°9'9	26°39'39	26°37'37	F 30
S 31	17 12 28	18°40'30	3°21'21	20°11'11	15°36'36	12°3'3	23°M.25	27°M.14	1°6'6	24°Y30	19°39'39	24°39'39	26°3'3	26°45'45	26°8'41	S 31

Delta T = 192.28 sec      Julian Calendar 1 May 1544 == Greg. Calendar 11 May 1544

**JUNE 1544 JC**

**00:00 UT**

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 16 24	19°37'45	16°58'58	22°11'11	16°8'47	12°R 0	23°R19	27°R10	1°8'8	24°Y32	19°R38	24°R37	26°3'3	26°11'52	26°8'46	S 1
M 2	17 20 21	20°34'59	1°11'4	24°22'22	17°58'58	11°35'11	23°M.13	27°M.6	1°9'9	24°33'33	19°38'38	24°33'33	25°59'59	26°5'5	26°50'50	M 2
T 3	17 24 17	21°32'12	15°37'37	26°32'32	19°9'9	11°40'40	23°7'7	27°2'2	1°11'11	24°35'35	19°37'37	24°29'29	25°56'56	27°5'5	26°55'55	T 3
W 4	17 28 14	22°29'25	0°32'32	28°40'40	20°21'21	11°30'30	23°1'1	26°58'58	1°13'13	24°36'36	19°37'37	24°24'24	25°53'53	27°12'12	26°59'59	W 4
T 5	17 32 11	23°26'38	15°41'41	0°34'34	21°32'32	11°18'18	22°55'55	26°54'54	1°15'15	24°38'38	19°36'36	24°20'20	25°50'50	27°19'19	27°3'3	T 5
F 6	17 36 7	24°23'49	0°35'55	2°54'54	22°43'43	11°6'6	22°50'50	26°51'51	1°17'17	24°39'39	19°36'36	24°17'17	25°47'47	27°25'25	27°8'8	F 6
S 7	17 40 4	25°21'01	16°5'5	4°58'58	23°54'54	10°53'53	22°44'44	26°47'47	1°19'19	24°40'40	19°35'35	24°16'16	25°43'43	27°32'32	27°12'12	S 7
S 8	17 44 0	26°18'12	1°22'22	7°0'0	25°6'6	10°40'40	22°39'39	26°44'44	1°21'21	24°42'42	19°34'34	24°D16	25°40'40	27°39'39	27°16'16	S 8
M 9	17 47 57	27°15'23	15°35'35	9°1'1	26°17'17	10°26'26	22°34'34	26°40'40	1°23'23	24°43'43	19°34'34	24°17'17	25°37'37	27°45'45	27°20'20	M 9
T 10	17 51 53	28°12'34	29°44'44	11°0'0	27°29'29	10°11'11	22°29'29	26°37'37	1°25'25	24°44'44	19°33'33	24°18'18	25°34'34	27°52'52	27°25'25	T 10
W11	17 55 50	29°9'45	13°28'28	12°56'56	28°40'40	9°56'56	22°24'24	26°33'33	1°27'27	24°45'45	19°32'32	24°20'20	25°31'31	27°59'59	27°29'29	W11
T 12	17 59 47	0°6'56	26°47'47	14°51'51	29°52'52	9°41'41	22°19'19	26°30'30	1°29'29	24°46'46	19°31'31	24°R20	25°28'28	28°5'5	27°33'33	T 12
F 13	18 3 43	1°4'07	9°Y43	16°44'44	1°11'11	9°25'25	22°14'14	26°27'27	1°32'32	24°48'48	19°31'31	24°20'20	25°24'24	28°12'12	27°37'37	F 13
S 14	18 7 40	2°1'19	22°20'20	18°34'34	2°15'15	9°9'9	22°10'10	26°23'23	1°34'34	24°49'49	19°30'30	24°19'19	25°21'21	28°19'19	27°41'41	S 14
S 15	18 11 36	2°58'30	4°34'40	20°23'23	3°27'27	8°53'53	22°6'6	26°20'20	1°36'36	24°50'50	19°29'29	24°17'17	25°18'18	28°25'25	27°45'45	S 15
M16	18 15 33	3°55'42	16°49'49	22°9'9	4°39'39	8°36'36	22°1'1	26°17'17	1°39'39	24°51'51	19°28'28	24°14'14	25°15'15	28°32'32	27°49'49	M16
T 17	18 19 29	4°52'54	28°48'48	23°54'54	5°50'50	8°19'19	21°57'57	26°14'14	1°41'41	24°52'52	19°27'27	24°11'11	25°12'12	28°39'39	27°53'53	T 17
W18	18 23 26	5°50'06	10°11'11	25°36'36	7°2'2	8°1'1	21°54'54	26°11'11	1°44'44	24°53'53	19°27'27	24°8'8	25°9'9	28°45'45	27°57'57	W18
T 19	18 27 22	6°47'18	22°30'30	27°16'16	8°14'14	7°44'44	21°50'50	26°8'8	1°46'46	24°54'54	19°26'26	24°5'5	25°5'5	28°52'52	28°1'1	T 19
F 20	18 31 19	7°44'30	4°38'18	28°54'54	9°26'26	7°26'26	21°47'47	26°6'6	1°49'49	24°55'55	19°25'25	24°4'4	25°2'2	28°59'59	28°5'5	F 20
S 21	18 35 16	8°41'43	16°7'7	0°30'30	10°38'38	7°9'9	21°43'43	26°3'3	1°51'51	24°56'56	19°24'24	24°3'3	24°59'59	29°5'5	28°9'9	S 21
S 22	18 39 12	9°38'55	27°59'59	2°4'4	11°50'50	6°51'51	21°40'40	26°0'0	1°54'54	24°57'57	19°23'23	24°D 2	24°56'56	29°12'12	28°13'13	S 22
M23	18 43 9	10°36'08	9°56'56	3°35'35	13°2'2	6°33'33	21°37'37	25°58'58	1°56'56	24°58'58	19°22'22	24°3'3	24°53'53	29°19'19	28°17'17	M23
T 24	18 47 5	11°33'20	22°1'1	5°5'5	14°14'14	6°16'16	21°34'34	25°55'55	1°59'59	24°58'58	19°21'21	24°4'4	24°49'49	29°25'25	28°20'20	T 24
W25	18 51 2	12°30'33	4°18'18	6°32'32	15°26'26	5°58'58	21°32'32	25°53'53	2°2'2	24°59'59	19°20'20	24°5'5	24°46'46	29°32'32	28°24'24	W25
T 26	18 54 58	13°27'45	16°48'48	7°57'57	16°38'38	5°41'41	21°29'29	25°51'51	2°5'5	25°0'0	19°19'19	24°6'6	24°43'43	29°39'39	28°28'28	T 26
F 27	18 58 55	14°24'58	29°36'36	9°20'20	17°50'50	5°24'24	21°27'27	25°49'49	2°7'7	25°1'1	19°18'18	24°7'7	24°40'40	29°45'45	28°31'31	F 27
S 28	19 2 51	15°22'10	12°24'44	10°41'41	19°3'3	5°7'7	21°25'25	25°46'46	2°10'10	25°1'1	19°17'17	24°R 7	24°37'37	29°52'52	28°35'35	S 28
S 29	19 6 48	16°19'23	26°16'16	11°59'59	20°15'15	4°50'50	21°23'23	25°44'44	2°13'13	25°2'2	19°16'16	24°7'7	24°34'34	29°59'59	28°38'38	S 29
M30	19 10 45	17°36'36	10°M.11	13°30'30	21°11'11	4°33'33	21°M.21	25°M.42	2°16'16	25°Y 3	19°38'38	24°3'3	24°30'30	0°5'5	28°3'3	M30

## ASTRODIENST EPHEMERIS for the year 1544

geocentric

JULY 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 14 41	18°13'49	24°31	14°28	22°39	4°18	21°20	25°41	2°19	25°3	19°14	24°R 6	24°27	0°12	28°45	T 1
W 2	19 18 38	19°11'02	9°12	15°39	23°52	4°3	21°18	25°39	2°22	25°4	19°13	24°R 5	24°24	0°19	28°49	W 2
T 3	19 22 34	20°8'15	24°10	16°48	25°4	3°48	21°17	25°37	2°25	25°4	19°12	24°5	24°21	0°25	28°52	T 3
F 4	19 26 31	21°5'29	9°16	17°54	26°17	3°34	21°16	25°36	2°28	25°5	19°10	24°5	24°18	0°32	28°56	F 4
S 5	19 30 27	22°2'44	24°23	18°57	27°29	3°20	21°16	25°34	2°31	25°5	19°9	24°D 5	24°15	0°39	28°59	S 5
S 6	19 34 24	22°59'58	9°21	19°57	28°42	3°6	21°15	25°33	2°34	25°6	19°8	24°5	24°11	0°45	29°2	S 6
M 7	19 38 20	23°57'14	24°1	20°55	29°54	2°54	21°14	25°31	2°37	25°6	19°7	24°R 5	24°8	0°52	29°5	M 7
T 8	19 42 17	24°54'30	8°20	21°49	1°57	2°42	21°14	25°30	2°40	25°7	19°6	24°5	24°5	0°58	29°9	T 8
W 9	19 46 14	25°51'47	22°12	22°40	2°19	2°30	21°D14	25°29	2°43	25°7	19°5	24°5	24°2	1°5	29°12	W 9
T 10	19 50 10	26°49'05	5°38	23°28	3°32	2°19	21°14	25°28	2°47	25°7	19°3	24°4	23°59	1°12	29°15	T 10
F 11	19 54 7	27°46'24	18°38	24°13	4°45	2°9	21°15	25°27	2°50	25°8	19°2	24°4	23°55	1°18	29°18	F 11
S 12	19 58 3	28°43'44	1°16	24°54	5°58	2°0	21°15	25°26	2°53	25°8	19°1	24°D 4	23°52	1°25	29°21	S 12
S 13	20 2 0	29°41'05	13°36	25°31	7°10	1°51	21°16	25°25	2°56	25°8	19°0	24°4	23°49	1°32	29°24	S 13
M14	20 5 56	0°38'27	25°41	26°4	8°23	1°43	21°16	25°25	3°0	25°8	18°59	24°5	23°46	1°38	29°26	M14
T 15	20 9 53	1°35'51	7°37	26°33	9°36	1°36	21°18	25°24	3°3	25°9	18°57	24°5	23°43	1°45	29°29	T 15
W16	20 13 49	2°33'15	19°26	26°58	10°49	1°30	21°19	25°24	3°6	25°9	18°56	24°6	23°40	1°52	29°32	W16
T 17	20 17 46	3°30'41	1°34	27°18	12°2	1°24	21°20	25°23	3°10	25°9	18°55	24°7	23°36	1°58	29°35	T 17
F 18	20 21 43	4°28'08	13°3	27°33	13°15	1°19	21°22	25°23	3°13	25°9	18°54	24°8	23°33	2°5	29°37	F 18
S 19	20 25 39	5°25'35	24°56	27°44	14°28	1°15	21°23	25°23	3°17	25°R 9	18°52	24°R 8	23°30	2°12	29°40	S 19
S 20	20 29 36	6°23'04	6°56	27°50	15°41	1°12	21°25	25°D23	3°20	25°9	18°51	24°8	23°27	2°18	29°42	S 20
M21	20 33 32	7°20'34	19°4	27°R50	16°54	1°10	21°27	25°23	3°23	25°9	18°50	24°7	23°24	2°25	29°45	M21
T 22	20 37 29	8°18'04	1°23	27°46	18°7	1°9	21°30	25°23	3°27	25°9	18°48	24°5	23°21	2°32	29°47	T 22
W23	20 41 25	9°15'36	13°53	27°35	19°21	1°D 8	21°32	25°23	3°30	25°9	18°47	24°3	23°17	2°38	29°50	W23
T 24	20 45 22	10°13'08	26°37	27°20	20°34	1°8	21°35	25°23	3°34	25°8	18°46	24°1	23°14	2°45	29°52	T 24
F 25	20 49 18	11°10'42	9°35	26°59	21°47	1°9	21°38	25°24	3°37	25°8	18°45	23°59	23°11	2°52	29°54	F 25
S 26	20 53 15	12°8'16	22°49	26°33	23°1	1°11	21°41	25°24	3°41	25°8	18°43	23°57	23°8	2°58	29°56	S 26
S 27	20 57 12	13°5'51	6°21	26°2	24°14	1°14	21°44	25°25	3°45	25°8	18°42	23°56	23°5	3°5	29°59	S 27
M28	21 1 8	14°3'28	20°10	25°26	25°27	1°18	21°47	25°26	3°48	25°8	18°41	23°D56	23°1	3°12	0°1	M28
T 29	21 5 5	15°1'05	4°17	24°45	26°41	1°22	21°51	25°26	3°52	25°7	18°39	23°57	22°58	3°18	0°3	T 29
W30	21 9 1	15°58'43	18°40	24°1	27°54	1°28	21°54	25°27	3°55	25°7	18°38	23°58	22°55	3°25	0°5	W30
T 31	21 12 58	16°56'23	3°17	23°14	29°8	1°34	21°58	25°28	3°59	25°Y 7	18°37	23°59	22°52	3°32	0°11	T 31

Delta T = 191.91 sec

Julian Calendar 1 July 1544 == Greg. Calendar 11 July 1544

AUGUST 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21 16 54	17°54'03	18°3	22°R24	0°21	1°34	22°11	25°29	4°3	25°R 6	18°R35	24°R 0	22°349	3°38	0°11	F 1
S 2	21 20 51	18°51'45	2°53	21°D33	1°35	1°49	22°6	25°30	4°6	25°Y 6	18°34	24°R 0	22°46	3°45	0°10	S 2
S 3	21 24 48	19°49'28	17°38	20°41	2°48	1°57	22°11	25°32	4°10	25°5	18°33	23°59	22°42	3°52	0°12	S 3
M 4	21 28 44	20°47'12	2°12	19°49	4°2	2°6	22°15	25°33	4°14	25°5	18°31	23°56	22°39	3°58	0°13	M 4
T 5	21 32 41	21°44'57	16°29	18°59	5°16	2°16	22°20	25°34	4°17	25°4	18°30	23°52	22°36	4°5	0°15	T 5
W 6	21 36 37	22°42'44	0°23	18°11	6°29	2°27	22°25	25°36	4°21	25°4	18°29	23°48	22°33	4°11	0°16	W 6
T 7	21 40 34	23°40'33	13°53	17°27	7°43	2°39	22°30	25°38	4°25	25°3	18°27	23°44	22°30	4°18	0°18	T 7
F 8	21 44 30	24°38'24	26°57	16°47	8°57	2°51	22°35	25°39	4°29	25°2	18°26	23°40	22°27	4°25	0°19	F 8
S 9	21 48 27	25°36'16	9°38	16°13	10°11	3°4	22°40	25°41	4°32	25°2	18°25	23°38	22°23	4°31	0°21	S 9
S 10	21 52 23	26°34'10	21°59	15°45	11°25	3°17	22°45	25°43	4°36	25°1	18°24	23°D37	22°20	4°38	0°22	S 10
M11	21 56 20	27°32'06	4°11	15°24	12°39	3°32	22°51	25°45	4°40	25°0	18°22	23°37	22°17	4°45	0°23	M11
T 12	22 0 16	28°30'04	15°59	15°10	13°52	3°47	22°57	25°47	4°43	25°0	18°21	23°38	22°14	4°51	0°24	T 12
W13	22 4 10	29°28'04	27°48	15°D 4	15°6	4°2	23°3	25°49	4°47	24°59	18°20	23°40	22°11	4°58	0°25	W13
T 14	22 8 10	0°26'06	9°37	15°6	16°21	4°18	23°9	25°52	4°51	24°58	18°18	23°41	22°7	5°5	0°26	T 14
F 15	22 12 6	1°24'09	21°28	15°17	17°35	4°35	23°15	25°54	4°55	24°57	18°17	23°R42	22°4	5°11	0°27	F 15
S 16	22 16 3	2°22'15	3°27	15°35	18°49	4°53	23°21	25°57	4°58	24°56	18°16	23°42	22°1	5°18	0°28	S 16
S 17	22 19 59	3°20'22	15°37	16°3	20°3	5°11	23°28	25°59	5°2	24°56	18°15	23°39	21°58	5°25	0°29	S 17
M18	22 23 56	4°18'30	27°59	16°38	21°17	5°30	23°35	26°2	5°6	24°55	18°13	23°35	21°55	5°31	0°29	M18
T 19	22 27 52	5°16'41	10°35	17°22	22°31	5°49	23°41	26°5	5°10	24°54	18°12	23°29	21°52	5°38	0°30	T 19
W20	22 31 49	6°14'53	23°25	18°13	23°45	6°10	23°48	26°7	5°14	24°53	18°11	23°22	21°48	5°45	0°31	W20
T 21	22 35 45	7°13'07	6°30	19°12	25°0	6°30	23°55	26°10	5°17	24°52	18°10	23°15	21°45	5°51	0°31	T 21
F 22	22 39 42	8°11'23	19°47	20°18	26°14	6°51	24°3	26°13	5°21	24°51	18°8	23°7	21°42	5°58	0°32	F 22
S 23	22 43 39	9°9'40	3°11	21°31	27°28	7°13	24°10	26°16	5°25	24°50	18°7	23°1	21°39	6°5	0°32	S 23
S 24	22 47 35	10°7'59	16°58	22°49	28°43	7°35	24°17	26°20	5°29	24°49	18°6	22°57	21°36	6°11	0°32	S 24
M25	22 51 32	11°6'19	0°50	24°13	29°57	7°58	24°25	26°23	5°32	24°48	18°5	22°55	21°32	6°18	0°32	M25
T 26	22 55 28	12°4'41	14°50	25°42	1°11	8°22	24°33	26°26	5°36	24°46	18°4	22°D54	21°29	6°24	0°33	T 26
W27	22 59 25	13°3'05	29°0	27°16	2°26	8°45	24°41	26°30	5°40	24°45	18°2	22°55	21°26	6°31	0°33	W27
T 28	23 3 21	14°1'30	13°17	28°53	3°40	9°10	24°49	26°33	5°44	24°44	18°1	22°56	21°23	6°38	0°R33	T 28
F 29	23 7 18	14°59'57	27°39	0°33	4°55	9°35	24°57	26°37	5°47	24°43	18°0	22°R56	21°20	6°44	0°33	F 29
S 30	23 11 14	15°58'26	12°4	2°17	6°9	10°0	25°5	26°40	5°51	24°42	17°59	22°55	21°17	6°51	0°33	S 30
S 31	23 15 11	16°56'56	26°26	4°2	7°24	10°26	25°13	26°44	5°55	24°Y 41	17°58	22°51	21°13	6°58	0°11	S 31

Delta T = 191.72 sec

Julian Calendar

# ASTRODIENST EPHEMERIS for the year 1544

## geocentric

SEPTEMBER 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	23 19 8	17 <sup>17</sup> 55'27	10 <sup>16</sup> 41	5 <sup>17</sup> 50	8 <sup>17</sup> 38	10 <sup>17</sup> 52	25 <sup>17</sup> 22	26 <sup>17</sup> 48	5 <sup>17</sup> 59	24 <sup>17</sup> 39	17 <sup>17</sup> 57	22 <sup>17</sup> 45	21 <sup>17</sup> 10	7 <sup>17</sup> 54	0 <sup>17</sup> 32	M 1
T 2	23 23 4	18 <sup>17</sup> 54'01	24 <sup>17</sup> 43	7 <sup>17</sup> 38	9 <sup>17</sup> 53	11 <sup>17</sup> 18	25 <sup>17</sup> 31	26 <sup>17</sup> 52	6 <sup>17</sup> 2	24 <sup>17</sup> 38	17 <sup>17</sup> 56	22 <sup>17</sup> 37	21 <sup>17</sup> 7	7 <sup>17</sup> 11	0 <sup>17</sup> 32	T 2
W 3	23 27 1	19 <sup>17</sup> 52'37	8 <sup>17</sup> 28	9 <sup>17</sup> 28	11 <sup>17</sup> 7	11 <sup>17</sup> 45	25 <sup>17</sup> 39	26 <sup>17</sup> 56	6 <sup>17</sup> 6	24 <sup>17</sup> 37	17 <sup>17</sup> 54	22 <sup>17</sup> 27	21 <sup>17</sup> 4	7 <sup>17</sup> 18	0 <sup>17</sup> 31	W 3
T 4	23 30 57	20 <sup>17</sup> 51'15	21 <sup>17</sup> 53	11 <sup>17</sup> 19	12 <sup>17</sup> 22	12 <sup>17</sup> 13	25 <sup>17</sup> 48	27 <sup>17</sup> 0	6 <sup>17</sup> 10	24 <sup>17</sup> 35	17 <sup>17</sup> 53	22 <sup>17</sup> 17	21 <sup>17</sup> 1	7 <sup>17</sup> 24	0 <sup>17</sup> 31	T 4
F 5	23 34 54	21 <sup>17</sup> 49'55	4 <sup>17</sup> 55	13 <sup>17</sup> 10	13 <sup>17</sup> 37	12 <sup>17</sup> 41	25 <sup>17</sup> 57	27 <sup>17</sup> 4	6 <sup>17</sup> 13	24 <sup>17</sup> 34	17 <sup>17</sup> 52	22 <sup>17</sup> 8	20 <sup>17</sup> 58	7 <sup>17</sup> 31	0 <sup>17</sup> 30	F 5
S 6	23 38 50	22 <sup>17</sup> 48'37	17 <sup>17</sup> 36	15 <sup>17</sup> 1	14 <sup>17</sup> 51	13 <sup>17</sup> 9	26 <sup>17</sup> 6	27 <sup>17</sup> 8	6 <sup>17</sup> 17	24 <sup>17</sup> 33	17 <sup>17</sup> 51	22 <sup>17</sup> 1	20 <sup>17</sup> 54	7 <sup>17</sup> 38	0 <sup>17</sup> 30	S 6
S 7	23 42 47	23 <sup>17</sup> 47'21	29 <sup>17</sup> 58	16 <sup>17</sup> 52	16 <sup>17</sup> 6	13 <sup>17</sup> 38	26 <sup>17</sup> 16	27 <sup>17</sup> 13	6 <sup>17</sup> 21	24 <sup>17</sup> 31	17 <sup>17</sup> 50	21 <sup>17</sup> 56	20 <sup>17</sup> 51	7 <sup>17</sup> 44	0 <sup>17</sup> 29	S 7
M 8	23 46 43	24 <sup>17</sup> 46'08	12 <sup>17</sup> 4	18 <sup>17</sup> 43	17 <sup>17</sup> 21	14 <sup>17</sup> 7	26 <sup>17</sup> 25	27 <sup>17</sup> 17	6 <sup>17</sup> 24	24 <sup>17</sup> 30	17 <sup>17</sup> 49	21 <sup>17</sup> 53	20 <sup>17</sup> 48	7 <sup>17</sup> 51	0 <sup>17</sup> 28	M 8
T 9	23 50 40	25 <sup>17</sup> 44'57	23 <sup>17</sup> 59	20 <sup>17</sup> 34	18 <sup>17</sup> 36	14 <sup>17</sup> 36	26 <sup>17</sup> 34	27 <sup>17</sup> 21	6 <sup>17</sup> 28	24 <sup>17</sup> 28	17 <sup>17</sup> 48	21 <sup>17</sup> D52	20 <sup>17</sup> 45	7 <sup>17</sup> 58	0 <sup>17</sup> 27	T 9
W10	23 54 37	26 <sup>17</sup> 43'48	5 <sup>17</sup> 548	22 <sup>17</sup> 24	19 <sup>17</sup> 50	15 <sup>17</sup> 6	26 <sup>17</sup> 44	27 <sup>17</sup> 26	6 <sup>17</sup> 31	24 <sup>17</sup> 27	17 <sup>17</sup> 47	21 <sup>17</sup> 52	20 <sup>17</sup> 42	8 <sup>17</sup> 4	0 <sup>17</sup> 27	W10
T 11	23 58 33	27 <sup>17</sup> 42'42	17 <sup>17</sup> 36	24 <sup>17</sup> 14	21 <sup>17</sup> 5	15 <sup>17</sup> 36	26 <sup>17</sup> 53	27 <sup>17</sup> 31	6 <sup>17</sup> 35	24 <sup>17</sup> 26	17 <sup>17</sup> 46	21 <sup>17</sup> R53	20 <sup>17</sup> 38	8 <sup>17</sup> 11	0 <sup>17</sup> 26	T 11
F 12	0 2 30	28 <sup>17</sup> 41'38	29 <sup>17</sup> 30	26 <sup>17</sup> 3	22 <sup>17</sup> 20	16 <sup>17</sup> 6	27 <sup>17</sup> 3	27 <sup>17</sup> 35	6 <sup>17</sup> 39	24 <sup>17</sup> 24	17 <sup>17</sup> 45	21 <sup>17</sup> 53	20 <sup>17</sup> 35	8 <sup>17</sup> 18	0 <sup>17</sup> 25	F 12
S 13	0 6 26	29 <sup>17</sup> 40'36	11 <sup>17</sup> 33	27 <sup>17</sup> 51	23 <sup>17</sup> 35	16 <sup>17</sup> 37	27 <sup>17</sup> 13	27 <sup>17</sup> 40	6 <sup>17</sup> 42	24 <sup>17</sup> 23	17 <sup>17</sup> 45	21 <sup>17</sup> 51	20 <sup>17</sup> 32	8 <sup>17</sup> 24	0 <sup>17</sup> 23	S 13
S 14	0 10 23	0 <sup>17</sup> 39'36	23 <sup>17</sup> 51	29 <sup>17</sup> 38	24 <sup>17</sup> 50	17 <sup>17</sup> 8	27 <sup>17</sup> 23	27 <sup>17</sup> 45	6 <sup>17</sup> 46	24 <sup>17</sup> 21	17 <sup>17</sup> 44	21 <sup>17</sup> 47	20 <sup>17</sup> 29	8 <sup>17</sup> 31	0 <sup>17</sup> 22	S 14
M15	0 14 19	1 <sup>17</sup> 38'38	6 <sup>17</sup> 25	1 <sup>17</sup> 25	26 <sup>17</sup> 5	17 <sup>17</sup> 40	27 <sup>17</sup> 33	27 <sup>17</sup> 50	6 <sup>17</sup> 49	24 <sup>17</sup> 20	17 <sup>17</sup> 43	21 <sup>17</sup> 40	20 <sup>17</sup> 26	8 <sup>17</sup> 37	0 <sup>17</sup> 21	M15
T 16	0 18 16	2 <sup>17</sup> 37'43	19 <sup>17</sup> 18	3 <sup>17</sup> 11	27 <sup>17</sup> 19	18 <sup>17</sup> 11	27 <sup>17</sup> 43	27 <sup>17</sup> 54	6 <sup>17</sup> 53	24 <sup>17</sup> 18	17 <sup>17</sup> 42	21 <sup>17</sup> 30	20 <sup>17</sup> 23	8 <sup>17</sup> 44	0 <sup>17</sup> 20	T 16
W17	0 22 12	3 <sup>17</sup> 36'50	2 <sup>17</sup> 29	4 <sup>17</sup> 56	28 <sup>17</sup> 34	18 <sup>17</sup> 43	27 <sup>17</sup> 54	27 <sup>17</sup> 59	6 <sup>17</sup> 56	24 <sup>17</sup> 17	17 <sup>17</sup> 41	21 <sup>17</sup> 19	20 <sup>17</sup> 19	8 <sup>17</sup> 51	0 <sup>17</sup> 18	W17
T 18	0 26 9	4 <sup>17</sup> 35'59	15 <sup>17</sup> 58	6 <sup>17</sup> 41	29 <sup>17</sup> 49	19 <sup>17</sup> 16	28 <sup>17</sup> 4	28 <sup>17</sup> 5	7 <sup>17</sup> 0	24 <sup>17</sup> 15	17 <sup>17</sup> 40	21 <sup>17</sup> 7	20 <sup>17</sup> 16	8 <sup>17</sup> 57	0 <sup>17</sup> 17	T 18
F 19	0 30 5	5 <sup>17</sup> 35'10	29 <sup>17</sup> 41	8 <sup>17</sup> 24	1 <sup>17</sup> 4	19 <sup>17</sup> 48	28 <sup>17</sup> 14	28 <sup>17</sup> 10	7 <sup>17</sup> 3	24 <sup>17</sup> 13	17 <sup>17</sup> 39	20 <sup>17</sup> 55	20 <sup>17</sup> 13	9 <sup>17</sup> 4	0 <sup>17</sup> 15	F 19
S 20	0 34 2	6 <sup>17</sup> 34'22	13 <sup>17</sup> 35	10 <sup>17</sup> 7	2 <sup>17</sup> 19	20 <sup>17</sup> 21	28 <sup>17</sup> 25	28 <sup>17</sup> 15	7 <sup>17</sup> 6	24 <sup>17</sup> 12	17 <sup>17</sup> 39	20 <sup>17</sup> 45	20 <sup>17</sup> 10	9 <sup>17</sup> 11	0 <sup>17</sup> 14	S 20
S 21	0 37 59	7 <sup>17</sup> 33'37	27 <sup>17</sup> 37	11 <sup>17</sup> 49	3 <sup>17</sup> 34	20 <sup>17</sup> 55	28 <sup>17</sup> 36	28 <sup>17</sup> 20	7 <sup>17</sup> 10	24 <sup>17</sup> 10	17 <sup>17</sup> 38	20 <sup>17</sup> 38	20 <sup>17</sup> 7	9 <sup>17</sup> 17	0 <sup>17</sup> 12	S 21
M22	0 41 55	8 <sup>17</sup> 32'54	11 <sup>17</sup> 42	13 <sup>17</sup> 30	4 <sup>17</sup> 49	21 <sup>17</sup> 28	28 <sup>17</sup> 46	28 <sup>17</sup> 25	7 <sup>17</sup> 13	24 <sup>17</sup> 9	17 <sup>17</sup> 37	20 <sup>17</sup> 33	20 <sup>17</sup> 4	9 <sup>17</sup> 24	0 <sup>17</sup> 11	M22
T 23	0 45 52	9 <sup>17</sup> 32'13	25 <sup>17</sup> 49	15 <sup>17</sup> 10	6 <sup>17</sup> 4	22 <sup>17</sup> 2	28 <sup>17</sup> 57	28 <sup>17</sup> 31	7 <sup>17</sup> 17	24 <sup>17</sup> 7	17 <sup>17</sup> 36	20 <sup>17</sup> 30	20 <sup>17</sup> 0	9 <sup>17</sup> 31	0 <sup>17</sup> 9	T 23
W24	0 49 48	10 <sup>17</sup> 31'33	9 <sup>17</sup> 55	16 <sup>17</sup> 50	7 <sup>17</sup> 19	22 <sup>17</sup> 36	29 <sup>17</sup> 8	28 <sup>17</sup> 36	7 <sup>17</sup> 20	24 <sup>17</sup> 5	17 <sup>17</sup> 36	20 <sup>17</sup> D30	19 <sup>17</sup> 57	9 <sup>17</sup> 37	0 <sup>17</sup> 7	W24
T 25	0 53 45	11 <sup>17</sup> 30'55	24 <sup>17</sup> 1	18 <sup>17</sup> 28	8 <sup>17</sup> 34	23 <sup>17</sup> 10	29 <sup>17</sup> 19	28 <sup>17</sup> 42	7 <sup>17</sup> 23	24 <sup>17</sup> 4	17 <sup>17</sup> 35	20 <sup>17</sup> R30	19 <sup>17</sup> 54	9 <sup>17</sup> 44	0 <sup>17</sup> 5	T 25
F 26	0 57 41	12 <sup>17</sup> 30'19	8 <sup>17</sup> 4	20 <sup>17</sup> 6	9 <sup>17</sup> 50	23 <sup>17</sup> 45	29 <sup>17</sup> 30	28 <sup>17</sup> 47	7 <sup>17</sup> 26	24 <sup>17</sup> 2	17 <sup>17</sup> 34	20 <sup>17</sup> 29	19 <sup>17</sup> 51	9 <sup>17</sup> 51	0 <sup>17</sup> 3	F 26
S 27	1 1 38	13 <sup>17</sup> 29'44	22 <sup>17</sup> 5	21 <sup>17</sup> 44	11 <sup>17</sup> 5	24 <sup>17</sup> 20	29 <sup>17</sup> 41	28 <sup>17</sup> 53	7 <sup>17</sup> 30	24 <sup>17</sup> 1	17 <sup>17</sup> 34	20 <sup>17</sup> 26	19 <sup>17</sup> 48	9 <sup>17</sup> 57	0 <sup>17</sup> 1	S 27
S 28	1 5 34	14 <sup>17</sup> 29'11	6 <sup>17</sup> 1	23 <sup>17</sup> 20	12 <sup>17</sup> 20	24 <sup>17</sup> 55	29 <sup>17</sup> 53	28 <sup>17</sup> 59	7 <sup>17</sup> 33	23 <sup>17</sup> 59	17 <sup>17</sup> 33	20 <sup>17</sup> 21	19 <sup>17</sup> 44	10 <sup>17</sup> 4	29 <sup>17</sup> 59	S 28
M29	1 9 31	15 <sup>17</sup> 28'40	19 <sup>17</sup> 50	24 <sup>17</sup> 56	13 <sup>17</sup> 35	25 <sup>17</sup> 30	0 <sup>17</sup> 4	29 <sup>17</sup> 4	7 <sup>17</sup> 36	23 <sup>17</sup> 57	17 <sup>17</sup> 33	20 <sup>17</sup> 12	19 <sup>17</sup> 41	10 <sup>17</sup> 11	29 <sup>17</sup> 57	M29
T 30	1 13 28	16 <sup>17</sup> 28'11	3 <sup>17</sup> 29	26 <sup>17</sup> 32	14 <sup>17</sup> 50	26 <sup>17</sup> 5	0 <sup>17</sup> 15	29 <sup>17</sup> 110	7 <sup>17</sup> 39	23 <sup>17</sup> 56	17 <sup>17</sup> 32	20 <sup>17</sup> 3	19 <sup>17</sup> 38	10 <sup>17</sup> 17	29 <sup>17</sup> 55	T 30

Delta T = 191.53 sec

Julian Calendar 1 Sept. 1544 == Greg. Calendar 11 Sept. 1544

OCTOBER 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	1 17 24	17 <sup>17</sup> 27'44	16 <sup>17</sup> 55	28 <sup>17</sup> 6	16 <sup>17</sup> 5	26 <sup>17</sup> 41	0 <sup>17</sup> 27	29 <sup>17</sup> 16	7 <sup>17</sup> 42	23 <sup>17</sup> R54	17 <sup>17</sup> R31	19 <sup>17</sup> R48	19 <sup>17</sup> 35	10 <sup>17</sup> 24	29 <sup>17</sup> R53	W 1
T 2	1 21 21	18 <sup>17</sup> 27'19	0 <sup>17</sup> 5	29 <sup>17</sup> 40	17 <sup>17</sup> 20	27 <sup>17</sup> 17	0 <sup>17</sup> 38	29 <sup>17</sup> 22	7 <sup>17</sup> 45	23 <sup>17</sup> Y52	17 <sup>17</sup> 31	19 <sup>17</sup> 35	19 <sup>17</sup> 32	10 <sup>17</sup> 30	29 <sup>17</sup> 51	T 2
F 3	1 25 17	19 <sup>17</sup> 26'56	12 <sup>17</sup> 58	1 <sup>17</sup> 14	18 <sup>17</sup> 35	27 <sup>17</sup> 53	0 <sup>17</sup> 50	29 <sup>17</sup> 28	7 <sup>17</sup> 48	23 <sup>17</sup> 51	17 <sup>17</sup> 30	19 <sup>17</sup> 23	19 <sup>17</sup> 29	10 <sup>17</sup> 37	29 <sup>17</sup> 48	F 3
S 4	1 29 14	20 <sup>17</sup> 26'36	25 <sup>17</sup> 32	2 <sup>17</sup> 47	19 <sup>17</sup> 50	28 <sup>17</sup> 29	1 <sup>17</sup> 2	29 <sup>17</sup> 34	7 <sup>17</sup> 51	23 <sup>17</sup> 49	17 <sup>17</sup> 30	19 <sup>17</sup> 12	19 <sup>17</sup> 25	10 <sup>17</sup> 44	29 <sup>17</sup> 46	S 4
S 5	1 33 10	21 <sup>17</sup> 26'17	7 <sup>17</sup> II50	4 <sup>17</sup> 19	21 <sup>17</sup> 6	29 <sup>17</sup> 6	1 <sup>17</sup> 14	29 <sup>17</sup> 40	7 <sup>17</sup> 54	23 <sup>17</sup> 47	17 <sup>17</sup> 30	19 <sup>17</sup> 4	19 <sup>17</sup> 22	10 <sup>17</sup> 50	29 <sup>17</sup> 43	S 5
M 6	1 37 7	22 <sup>17</sup> 26'01	19 <sup>17</sup> 55	5 <sup>17</sup> 50	22 <sup>17</sup> 21	29 <sup>17</sup> 42	1 <sup>17</sup> 25	29 <sup>17</sup> 46	7 <sup>17</sup> 57	23 <sup>17</sup> 45	17 <sup>17</sup> 29	18 <sup>17</sup> 59	19 <sup>17</sup> 19	10 <sup>17</sup> 57	29 <sup>17</sup> 41	M 6
T 7	1 41 3	23 <sup>17</sup> 25'47	1 <sup>17</sup> 548	7 <sup>17</sup> 21	23 <sup>17</sup> 36	0 <sup>17</sup> 19	1 <sup>17</sup> 37	29 <sup>17</sup> 52	8 <sup>17</sup> 0	23 <sup>17</sup> 44	17 <sup>17</sup> 29	18 <sup>17</sup> 56	19 <sup>17</sup> 16	11 <sup>17</sup> 4	29 <sup>17</sup> 38	T 7
W 8	1 45 0	24 <sup>17</sup> 25'35	13 <sup>17</sup> 37	8 <sup>17</sup> 52	24 <sup>17</sup> 51	0 <sup>17</sup> 56	1 <sup>17</sup> 49	29 <sup>17</sup> 58	8 <sup>17</sup> 3	23 <sup>17</sup> 42	17 <sup>17</sup> 28	18 <sup>17</sup> 55	19 <sup>17</sup> 13	11 <sup>17</sup> 10	29 <sup>17</sup> 36	W 8
T 9	1 48 57	25 <sup>17</sup> 25'26	25 <sup>17</sup> 25	10 <sup>17</sup> 22	26 <sup>17</sup> 6	1 <sup>17</sup> 33	2 <sup>17</sup> 1	0 <sup>17</sup> 4	8 <sup>17</sup> 6	23 <sup>17</sup> 40	17 <sup>17</sup> 28	18 <sup>17</sup> 55	19 <sup>17</sup> 9	11 <sup>17</sup> 17	29 <sup>17</sup> 33	T 9
F 10	1 52 53	26 <sup>17</sup> 25'18	7 <sup>17</sup> II18	11 <sup>17</sup> 51	27 <sup>17</sup> 22	2 <sup>17</sup> 11	2 <sup>17</sup> 14	0 <sup>17</sup> 10	8 <sup>17</sup> 9	23 <sup>17</sup> 39	17 <sup>17</sup> 28	18 <sup>17</sup> 55	19 <sup>17</sup> 6	11 <sup>17</sup> 24	29 <sup>17</sup> 30	F 10
S 11	1 56 50	27 <sup>17</sup> 25'13	19 <sup>17</sup> 22	13 <sup>17</sup> 20	28 <sup>17</sup> 37	2 <sup>17</sup> 48	2 <sup>17</sup> 26	0 <sup>17</sup> 17	8 <sup>17</sup> 12	23 <sup>17</sup> 37	17 <sup>17</sup> 27	18 <sup>17</sup> 53	19 <sup>17</sup> 3	11 <sup>17</sup> 30	29 <sup>17</sup> 28	S 11
S 12	2 0 46	28 <sup>17</sup> 25'10	1 <sup>17</sup> II42	14 <sup>17</sup> 48	29 <sup>17</sup> 52	3 <sup>17</sup> 26	2 <sup>17</sup> 38	0 <sup>17</sup> 23	8 <sup>17</sup> 14	23 <sup>17</sup> 35	17 <sup>17</sup> 27	18 <sup>17</sup> 49	19 <sup>17</sup> 0	11 <sup>17</sup> 37	29 <sup>17</sup> 25	S 12
M13	2 4 43	29 <sup>17</sup> 25'10	14 <sup>17</sup> 22	16 <sup>17</sup> 15	1 <sup>17</sup> II7	4 <sup>17</sup> 4	2 <sup>17</sup> 50	0 <sup>17</sup> 29	8 <sup>17</sup> 17	23 <sup>17</sup> 34	17 <sup>17</sup> 27	18 <sup>17</sup> 43	18 <sup>17</sup> 57	11 <sup>17</sup> 44	29 <sup>17</sup> 22	M13
T 14	2 8 39	0 <sup>17</sup> II25'11	27 <sup>17</sup> 25	17 <sup>17</sup> 42	2 <sup>17</sup> 23	4 <sup>17</sup> 42	3 <sup>17</sup> 3	0 <sup>17</sup> 36	8 <sup>17</sup> 20	23 <sup>17</sup> 32	17 <sup>17</sup> 27	18 <sup>17</sup> 34	18 <sup>17</sup> 54	11 <sup>17</sup> 50	29 <sup>17</sup> 19	T 14
W15	2 12 36	1 <sup>17</sup> 25'14	10 <sup>17</sup> 52	19 <sup>17</sup> 9	3 <sup>17</sup> 38	5 <sup>17</sup> 20	3 <sup>17</sup> 15	0 <sup>17</sup> 42	8 <sup>17</sup> 23	23 <sup>17</sup> 30	17 <sup>17</sup> 26	18 <sup>17</sup> 22	18 <sup>17</sup> 50	11 <sup>17</sup> 57	29 <sup>17</sup> 16	W15
T 16	2 16 32	2 <sup>17</sup> 25'20	24 <sup>17</sup> 41	20 <sup>17</sup> 34	4 <sup>17</sup> 53	5 <sup>17</sup> 58	3 <sup>17</sup> 28	0 <sup>17</sup> 49	8 <sup>17</sup> 25	23 <sup>17</sup> 29	17 <sup>17</sup> 26	18 <sup>17</sup> 10	18 <sup>17</sup> 47	12 <sup>17</sup> 3	29 <sup>17</sup> 13	T 16
F 17	2 20 29	3 <sup>17</sup> 25'27	8 <sup>17</sup> II49	21 <sup>17</sup> 59	6 <sup>17</sup> 8	6 <sup>17</sup> 37	3 <sup>17</sup> 40	0 <sup>17</sup> 55	8 <sup>17</sup> 28	23 <sup>17</sup> 27	17 <sup>17</sup> 26	17 <sup>17</sup> 58	18 <sup>17</sup> 44	12 <sup>17</sup> 10	29 <sup>17</sup> 10	F 17
S 18	2 24 26	4 <sup>17</sup> 25'36	23 <sup>17</sup> 10	23 <sup>17</sup> 23	7 <sup>17</sup> 24	7 <sup>17</sup> 15	3 <sup>17</sup> 53	1 <sup>17</sup> 2	8 <sup>17</sup> 30	23 <sup>17</sup> 25	17 <sup>17</sup> 26	17 <sup>17</sup> 48	18 <sup>17</sup> 41	12 <sup>17</sup> 17	29 <sup>17</sup> 7	S 18
S 19	2 28 22	5 <sup>17</sup> 25'47	7 <sup>17</sup> II38	24 <sup>17</sup> 47	8 <sup>17</sup> 39	7 <sup>17</sup> 54	4 <sup>17</sup> 5	1 <sup>17</sup> 8	8 <sup>17</sup> 33	23 <sup>17</sup> 24	17 <sup>17</sup> 26	17 <sup>17</sup> 40	18 <sup>17</sup> 38	12 <sup>17</sup> 23	29 <sup>17</sup> 4	S 19
M20	2 32 19	6 <sup>17</sup> 26'00	22 <sup>17</sup> 7	26 <sup>17</sup> 9	9 <sup>17</sup> 54	8 <sup>17</sup> 33	4 <sup>17</sup> 18	1 <sup>17</sup> 15	8 <sup>17</sup> 35	23 <sup>17</sup> 22	17 <sup>17</sup> 26	17 <sup>17</sup> 35	18 <sup>17</sup> 35	12 <sup>17</sup> 30	29 <sup>17</sup> 1	M20
T 21	2 36 15	7 <sup>17</sup> 26'15	6 <sup>17</sup> 32	27 <sup>17</sup> 31	11 <sup>17</sup> 9	9 <sup>17</sup> 12	4 <sup>17</sup> 31	1 <sup>17</sup> 22	8 <sup>17</sup> 37	23 <sup>17</sup> 20	17 <sup>17</sup> 26	17 <sup>17</sup> 33	18 <sup>17</sup> 31	12 <sup>17</sup> 37	28 <sup>17</sup> 58	T 21
W22	2 40 12	8 <sup>17</sup> 26'31	20 <sup>17</sup> 49	28 <sup>17</sup> 52	12 <sup>17</sup> 25	9 <sup>17</sup> 51	4 <sup>17</sup> 44	1 <sup>17</sup> 28	8 <sup>17</sup> 40	23 <sup>17</sup> 19	17 <sup>17</sup> D26	17 <sup>17</sup> D32	18 <sup>17</sup> 28	12 <sup>17</sup> 43	28 <sup>17</sup> 55	W22
T 23	2 44 8	9 <sup>17</sup> 26'48	4 <sup>17</sup> 57	0 <sup>17</sup> II11	13 <sup>17</sup> 40	10 <sup>17</sup> 30	4 <sup>17</sup> 56	1 <sup>17</sup> 35	8 <sup>17</sup> 42	23 <sup>17</sup> 17	17 <sup>17</sup> 26	17 <sup>17</sup> R33	18 <sup>17</sup> 25	12 <sup>17</sup> 50	28 <sup>17</sup> 52	T 23
F 24	2 48 5	10 <sup>17</sup> 27'07	18 <sup>17</sup> 54	1 <sup>17</sup> 29	14 <sup>17</sup> 55	11 <sup>17</sup> 10	5 <sup>17</sup> 9	1 <sup>17</sup> 42	8 <sup>17</sup> 44	23 <sup>17</sup> 16	17 <sup>17</sup> 26	17 <sup>17</sup> 32	18 <sup>17</sup> 22	12 <sup>17</sup> 57	28 <sup>17</sup> 49	F 24
S 25	2 52 1	11 <sup>17</sup> 27'27	2 <sup>17</sup> II40	2 <sup>17</sup> 46	16 <sup>17</sup> 11	11 <sup>17</sup> 49	5 <sup>17</sup> 22	1 <sup>17</sup> 49	8 <sup>17</sup> 47	23 <sup>17</sup> 14	17 <sup>17</sup> 26	17 <sup>17</sup> 31	18 <sup>17</sup> 19	13 <sup>17</sup> 3	28 <sup>17</sup> 45	S 25
S 26	2 55 58	12 <sup>17</sup> 27'48	16 <sup>17</sup> 16	4 <sup>17</sup> 1	17 <sup>17</sup> 26	12 <sup>17</sup> 29	5 <sup>17</sup> 35	1 <sup>17</sup> 55	8 <sup>17</sup> 49	23 <sup>17</sup> 13	17 <sup>17</sup> 26	17 <sup>17</sup> 26	18 <sup>17</sup> 15	13 <sup>17</sup> 10	28 <sup>17</sup> 42	S 26
M27	2 59 55	13 <sup>17</sup> 28'11	29 <sup>17</sup> 41	5 <sup>17</sup> 15	18 <sup>17</sup> 41	13 <sup>17</sup> 8	5 <sup>17</sup> 48	2 <sup>17</sup> 2	8 <sup>17</sup> 51	23 <sup>17</sup> 11	17 <sup>17</sup> 26	17 <sup>17</sup> 19	18 <sup>17</sup> 12	13 <sup>17</sup> 17	28 <sup>17</sup> 39	M27
T 28	3 3 51	14 <sup>17</sup> 28'36	12 <sup>17</sup> Y55	6 <sup>17</sup> 27	19 <sup>17</sup> 57	13 <sup>17</sup> 48	6 <sup>17</sup> 1	2 <sup>17</sup> 9	8 <sup>17</sup> 53	23 <sup>17</sup> 9	17 <sup>17</sup> 26	17 <sup>17</sup> 10	18 <sup>17</sup> 9	13 <sup>17</sup> 23	28 <sup>17</sup> 35	T 28
W29	3 7 48	15 <sup>17</sup> 29'01	25 <sup>17</sup> 58	7 <sup>17</sup> 37	21 <sup>17</sup> 12	14 <sup>17</sup> 28	6 <sup>17</sup> 14	2 <sup>17</sup> 16	8 <sup>17</sup> 55	23 <sup>17</sup> 8	17 <sup>17</sup> 27	16 <sup>17</sup> 59	18 <sup>17</sup> 6	13 <sup>17</sup> 30	28 <sup>17</sup> 32	W29
T 30	3 11 44	16 <sup>17</sup> 29'29	8 <sup>17</sup> II47	8 <sup>17</sup> 44	22 <sup>17</sup> 27	15 <sup>17</sup> 8	6 <sup>17</sup> 27	2 <sup>17</sup> 23	8 <sup>17</sup> 57	23 <sup>17</sup> 6	17 <sup>17</sup> 27	16 <sup>17</sup> 47	18 <sup>17</sup> 3	13 <sup>17</sup> 37	28 <sup>17</sup> 29	T 30
F 31	3 15 41	17 <sup>17</sup> 29'58	21 <sup>17</sup> II24	9 <sup>17</sup> II48	23 <sup>17</sup> II42	15 <sup>17</sup> II48	6 <sup>17</sup> II41	2 <sup>17</sup> II30	8 <sup>17</sup> II59	23 <sup>17</sup> Y5	17 <sup>17</sup> II27	16 <sup>17</sup> II36	18 <sup>17</sup> II0	13 <sup>17</sup> II43	28 <sup>17</sup> II25	F 31

# ASTRODIENST EPHEMERIS for the year 1544

## geocentric

NOVEMBER 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 19 37	18♌30'29	3♈46	10♊50	24♈58	16♊28	6♊54	2♊37	9♈1	23°R 3	17♊27	16°R27	17♊56	13♊50	28°R22	S 1
S 2	3 23 34	19°31'01	15°57	11°47	26°13	17° 8	7° 7	2°43	9° 3	23°V 2	17°28	16♌20	17°53	13°56	28♌19	S 2
M 3	3 27 30	20°31'35	27°56	12°41	27°28	17°49	7°20	2°50	9° 4	23° 0	17°28	16°16	17°50	14° 3	28°15	M 3
T 4	3 31 27	21°32'11	9♉48	13°31	28°44	18°29	7°34	2°57	9° 6	22°59	17°28	16°14	17°47	14°10	28°12	T 4
W 5	3 35 24	22°32'48	21°35	14°15	29°59	19°10	7°47	3° 4	9° 8	22°58	17°29	16°D14	17°44	14°16	28° 8	W 5
T 6	3 39 20	23°33'27	3♊22	14°54	1♊14	19°50	8° 0	3°11	9° 9	22°56	17°29	16°15	17°41	14°23	28° 5	T 6
F 7	3 43 17	24°34'08	15°14	15°26	2°30	20°31	8°14	3°18	9°11	22°55	17°29	16°16	17°37	14°30	28° 1	F 7
S 8	3 47 13	25°34'50	27°16	15°52	3°45	21°12	8°27	3°25	9°12	22°53	17°30	16°R16	17°34	14°36	27°58	S 8
S 9	3 51 10	26°35'34	9♈34	16° 9	5° 0	21°52	8°41	3°32	9°14	22°52	17°30	16°15	17°31	14°43	27°54	S 9
M10	3 55 6	27°36'20	22°12	16°R18	6°16	22°33	8°54	3°39	9°15	22°51	17°31	16°12	17°28	14°50	27°51	M10
T 11	3 59 3	28°37'07	5♈15	16°17	7°31	23°14	9° 7	3°47	9°17	22°49	17°31	16° 7	17°25	14°56	27°47	T 11
W12	4 2 59	29°37'56	18°45	16° 6	8°46	23°55	9°21	3°54	9°18	22°48	17°32	16° 1	17°21	15° 3	27°44	W12
T 13	4 6 56	0♊38'46	2♈42	15°44	10° 2	24°36	9°34	4° 1	9°19	22°47	17°33	15°53	17°18	15°10	27°40	T 13
F 14	4 10 53	1°39'37	17° 3	15°11	11°17	25°17	9°48	4° 8	9°20	22°46	17°33	15°46	17°15	15°16	27°37	F 14
S 15	4 14 49	2°40'30	1♊43	14°27	12°32	25°58	10° 2	4°15	9°22	22°44	17°34	15°39	17°12	15°23	27°33	S 15
S 16	4 18 46	3°41'24	16°35	13°33	13°48	26°40	10°15	4°22	9°23	22°43	17°34	15°34	17° 9	15°29	27°30	S 16
M17	4 22 42	4°42'20	1♌30	12°29	15° 3	27°21	10°29	4°29	9°24	22°42	17°35	15°31	17° 6	15°36	27°26	M17
T 18	4 26 39	5°43'16	16°20	11°17	16°18	28° 2	10°42	4°36	9°25	22°41	17°36	15°D30	17° 2	15°43	27°23	T 18
W19	4 30 35	6°44'13	0♊59	9°59	17°34	28°44	10°56	4°43	9°26	22°40	17°37	15°31	16°59	15°49	27°20	W19
T 20	4 34 32	7°45'10	15°22	8°37	18°49	29°25	11° 9	4°50	9°27	22°39	17°37	15°33	16°56	15°56	27°16	T 20
F 21	4 38 28	8°46'09	29°26	7°14	20° 4	0♈7	11°23	4°57	9°27	22°38	17°38	15°34	16°53	16° 3	27°13	F 21
S 22	4 42 25	9°47'07	13♈12	5°53	21°20	0°48	11°37	5° 4	9°28	22°37	17°39	15°R34	16°50	16° 9	27° 9	S 22
S 23	4 46 22	10°48'07	26°40	4°36	22°35	1°30	11°50	5°11	9°29	22°36	17°40	15°33	16°47	16°16	27° 6	S 23
M24	4 50 18	11°49'07	9♈51	3°26	23°50	2°11	12° 4	5°18	9°30	22°35	17°41	15°30	16°43	16°23	27° 3	M24
T 25	4 54 15	12°50'08	22°46	2°26	25° 5	2°53	12°18	5°25	9°30	22°34	17°42	15°26	16°40	16°29	26°59	T 25
W26	4 58 11	13°51'09	5♊28	1°35	26°21	3°35	12°31	5°32	9°31	22°33	17°42	15°20	16°37	16°36	26°56	W26
T 27	5 2 8	14°52'11	17°58	0°55	27°36	4°16	12°45	5°39	9°31	22°32	17°43	15°15	16°34	16°43	26°53	T 27
F 28	5 6 4	15°53'14	0♈17	0°26	28°51	4°58	12°58	5°46	9°32	22°31	17°44	15°10	16°31	16°49	26°49	F 28
S 29	5 10 1	16°54'17	12°26	0° 9	0♌7	5°40	13°12	5°53	9°32	22°30	17°45	15° 5	16°27	16°56	26°46	S 29
S 30	5 13 57	17♊55'21	24♈26	0°D 2	1♌22	6♈21	13♊26	6♊ 0	9♈32	22°V29	17♊46	15♌2	16♌24	17♊3	26♌43	S 30

Delta T = 191.17 sec

Julian Calendar 1 Nov. 1544 == Greg. Calendar 11 Nov. 1544

DECEMBER 1544 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	5 17 54	18♌56'26	6♉20	0♊5	2♌37	7♈3	13♊39	6♊7	9♈33	22°R29	17♊47	15°R 0	16♌21	17♊9	26°R40	M 1
T 2	5 21 51	19°57'31	18° 9	0°18	3°52	7°45	13°53	6°14	9°33	22°V28	17°48	15°D 0	16°18	17°16	26♌37	T 2
W 3	5 25 47	20°58'37	29°55	0°39	5° 8	8°27	14° 6	6°21	9°33	22°27	17°49	15♌1	16°15	17°22	26°34	W 3
T 4	5 29 44	21°59'44	11♊43	1° 8	6°23	9° 9	14°20	6°28	9°33	22°27	17°50	15° 2	16°12	17°29	26°31	T 4
F 5	5 33 40	23° 0'51	23°35	1°44	7°38	9°51	14°34	6°35	9°R33	22°26	17°52	15° 4	16° 8	17°36	26°28	F 5
S 6	5 37 37	24° 1'59	5♈37	2°26	8°53	10°33	14°47	6°42	9°33	22°25	17°53	15° 6	16° 5	17°42	26°25	S 6
S 7	5 41 33	25° 3'08	17°52	3°13	10° 8	11°15	15° 1	6°49	9°33	22°25	17°54	15° 7	16° 2	17°49	26°22	S 7
M 8	5 45 30	26° 4'17	0♊26	4° 6	11°24	11°57	15°14	6°56	9°33	22°24	17°55	15°R 7	15°59	17°56	26°19	M 8
T 9	5 49 27	27° 5'27	13°23	5° 3	12°39	12°39	15°28	7° 2	9°33	22°24	17°56	15° 6	15°56	18° 2	26°16	T 9
W10	5 53 23	28° 6'38	26°45	6° 3	13°54	13°21	15°41	7° 9	9°32	22°23	17°57	15° 4	15°53	18° 9	26°13	W10
T 11	5 57 20	29° 7'49	10♈36	7° 7	15° 9	14° 3	15°55	7°16	9°32	22°23	17°59	15° 2	15°49	18°16	26°10	T 11
F 12	6 1 16	0♌9'01	24°54	8°14	16°25	14°45	16° 8	7°23	9°32	22°22	18° 0	15° 0	15°46	18°22	26° 8	F 12
S 13	6 5 13	1°10'13	9♊36	9°23	17°40	15°27	16°22	7°29	9°31	22°22	18° 1	14°58	15°43	18°29	26° 5	S 13
S 14	6 9 9	2°11'25	24°37	10°35	18°55	16° 9	16°35	7°36	9°31	22°21	18° 2	14°57	15°40	18°36	26° 2	S 14
M15	6 13 6	3°12'38	9♌47	11°49	20°10	16°51	16°49	7°43	9°30	22°21	18° 4	14°D57	15°37	18°42	26° 0	M15
T 16	6 17 2	4°13'50	24°57	13° 4	21°25	17°33	17° 2	7°49	9°30	22°21	18° 5	14°57	15°33	18°49	25°57	T 16
W17	6 20 59	5°15'03	9♊58	14°22	22°40	18°15	17°15	7°56	9°29	22°21	18° 6	14°57	15°30	18°56	25°55	W17
T 18	6 24 56	6°16'15	24°42	15°40	23°56	18°57	17°29	8° 2	9°28	22°20	18° 8	14°58	15°27	19° 2	25°52	T 18
F 19	6 28 52	7°17'27	9♈4	17° 0	25°11	19°39	17°42	8° 9	9°28	22°20	18° 9	14°59	15°24	19° 9	25°50	F 19
S 20	6 32 49	8°18'38	23° 2	18°22	26°26	20°21	17°55	8°15	9°27	22°20	18°11	14°59	15°21	19°15	25°47	S 20
S 21	6 36 45	9°19'49	6♈34	19°44	27°41	21° 3	18° 8	8°22	9°26	22°20	18°12	15°R 0	15°18	19°22	25°45	S 21
M22	6 40 42	10°21'00	19°43	21° 7	28°56	21°46	18°21	8°28	9°25	22°20	18°13	15° 0	15°14	19°29	25°43	M22
T 23	6 44 38	11°22'10	2♌31	22°31	0♊11	22°28	18°35	8°35	9°24	22°20	18°15	14°59	15°11	19°35	25°41	T 23
W24	6 48 35	12°23'20	15° 1	23°56	1°26	23°10	18°48	8°41	9°23	22°D20	18°16	14°59	15° 8	19°42	25°39	W24
T 25	6 52 31	13°24'29	27°18	25°22	2°41	23°52	19° 1	8°47	9°22	22°20	18°18	14°59	15° 5	19°49	25°37	T 25
F 26	6 56 28	14°25'38	9♈23	26°48	3°56	24°34	19°14	8°53	9°21	22°20	18°19	14°59	15° 2	19°55	25°35	F 26
S 27	7 0 25	15°26'46	21°21	28°16	5°11	25°16	19°27	8°59	9°20	22°20	18°21	14°D59	14°59	20° 2	25°33	S 27
S 28	7 4 21	16°27'54	3♉12	29°43	6°26	25°58	19°40	9° 6	9°19	22°20	18°22	14°59	14°55	20° 9	25°31	S 28
M29	7 8 18	17°29'01	15° 1	1♌12	7°41	26°40	19°53	9°12	9°17	22°20	18°24	14°R59	14°52	20°15	25°29	M29
T 30	7 12 14	18°30'08	26°49	2°41	8°56	27°22	20° 5	9°18	9°16	22°21	18°25	14°59	14°49	20°22	25°28	T 30
W31	7 16 11	19♌31'14	8♊38	4♌11	10♊11	28♈4	20♊18	9♊24	9♈15	22°V21	18♊27	14♌58	14♌46	20♊29	25♌26	W31

Delta T = 190.98 sec

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