



Astrodienst Ephemeris Tables for the year 1538

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 1538

geocentric

JANUARY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 18 53	20 ³ 13'32	16 ³ 58	1 ³ 8	15 ³ 37	6 ³ R 5	10 ³ 59	19 ³ R32	4 ³ R54	6 ³ Y47	8 ³ 20	1 ³ R39	0 ³ II 6	5 ³ 51	20 ³ Y58	T 1
W 2	7 22 50	21 ³ 14'40	0 ³ 58	2 ³ 33	16 ³ 50	6 ³ Y 1	11 ³ 0	19 ³ Y31	4 ³ Y51	6 ³ 47	8 ³ 22	1 ³ II31	0 ³ 3	5 ³ 57	20 ³ 59	W 2
T 3	7 26 47	22 ³ 15'47	15 ³ 13	4 ³ 0	18 ³ 4	5 ³ 57	11 ³ 2	19 ³ 30	4 ³ 49	6 ³ 48	8 ³ 24	1 ³ 23	0 ³ 0	6 ³ 4	21 ³ 0	T 3
F 4	7 30 43	23 ³ 16'53	29 ³ 37	5 ³ 27	19 ³ 18	5 ³ 52	11 ³ 3	19 ³ 28	4 ³ 46	6 ³ 49	8 ³ 26	1 ³ 14	29 ³ Y57	6 ³ 11	21 ³ 1	F 4
S 5	7 34 40	24 ³ 17'58	14 ³ Y 3	6 ³ 55	20 ³ 31	5 ³ 46	11 ³ 5	19 ³ 26	4 ³ 44	6 ³ 50	8 ³ 27	1 ³ 7	29 ³ 54	6 ³ 18	21 ³ 1	S 5
S 6	7 38 36	25 ³ 19'02	28 ³ 27	8 ³ 23	21 ³ 45	5 ³ 39	11 ³ 7	19 ³ 25	4 ³ 41	6 ³ 51	8 ³ 29	1 ³ 2	29 ³ 50	6 ³ 24	21 ³ 2	S 6
M 7	7 42 33	26 ³ 20'06	12 ³ Y45	9 ³ 52	22 ³ 59	5 ³ 32	11 ³ 9	19 ³ 23	4 ³ 38	6 ³ 52	8 ³ 31	0 ³ 59	29 ³ 47	6 ³ 31	21 ³ 3	M 7
T 8	7 46 29	27 ³ 21'08	26 ³ 53	11 ³ 22	24 ³ 13	5 ³ 23	11 ³ 12	19 ³ 21	4 ³ 36	6 ³ 53	8 ³ 33	0 ³ D58	29 ³ 44	6 ³ 38	21 ³ 4	T 8
W 9	7 50 26	28 ³ 22'09	10 ³ Y50	12 ³ 53	25 ³ 26	5 ³ 14	11 ³ 14	19 ³ 19	4 ³ 33	6 ³ 54	8 ³ 35	0 ³ 58	29 ³ 41	6 ³ 44	21 ³ 5	W 9
T 10	7 54 22	29 ³ 23'09	24 ³ 37	14 ³ 24	26 ³ 40	5 ³ 4	11 ³ 17	19 ³ 17	4 ³ 31	6 ³ 55	8 ³ 36	0 ³ R59	29 ³ 38	6 ³ 51	21 ³ 6	T 10
F 11	7 58 19	0 ³ 24'08	8 ³ II13	15 ³ 56	27 ³ 54	4 ³ 53	11 ³ 20	19 ³ 14	4 ³ 28	6 ³ 56	8 ³ 38	0 ³ 59	29 ³ 35	6 ³ 58	21 ³ 8	F 11
S 12	8 2 16	1 ³ 25'05	21 ³ 39	17 ³ 29	29 ³ 8	4 ³ 42	11 ³ 23	19 ³ 12	4 ³ 25	6 ³ 58	8 ³ 40	0 ³ 57	29 ³ 31	7 ³ 4	21 ³ 9	S 12
S 13	8 6 12	2 ³ 26'02	4 ³ 55	19 ³ 2	0 ³ 22	4 ³ 30	11 ³ 27	19 ³ 10	4 ³ 23	6 ³ 59	8 ³ 42	0 ³ 52	29 ³ 28	7 ³ 11	21 ³ 10	S 13
M14	8 10 9	3 ³ 26'57	18 ³ 0	20 ³ 36	1 ³ 36	4 ³ 17	11 ³ 30	19 ³ 7	4 ³ 20	7 ³ 0	8 ³ 44	0 ³ 45	29 ³ 25	7 ³ 18	21 ³ 11	M14
T 15	8 14 5	4 ³ 27'52	0 ³ Y54	22 ³ 10	2 ³ 50	4 ³ 3	11 ³ 34	19 ³ 5	4 ³ 17	7 ³ 1	8 ³ 45	0 ³ 35	29 ³ 22	7 ³ 25	21 ³ 13	T 15
W16	8 18 2	5 ³ 28'45	13 ³ 36	23 ³ 46	4 ³ 3	3 ³ 48	11 ³ 38	19 ³ 2	4 ³ 15	7 ³ 2	8 ³ 47	0 ³ 23	29 ³ 19	7 ³ 31	21 ³ 14	W16
T 17	8 21 58	6 ³ 29'37	26 ³ 4	25 ³ 22	5 ³ 17	3 ³ 33	11 ³ 42	18 ³ 59	4 ³ 12	7 ³ 4	8 ³ 49	0 ³ 10	29 ³ 16	7 ³ 38	21 ³ 16	T 17
F 18	8 25 55	7 ³ 30'28	8 ³ Y12	26 ³ 58	6 ³ 31	3 ³ 17	11 ³ 46	18 ³ 56	4 ³ 10	7 ³ 5	8 ³ 51	29 ³ Y58	29 ³ 12	7 ³ 45	21 ³ 17	F 18
S 19	8 29 52	8 ³ 31'18	20 ³ 26	28 ³ 36	7 ³ 45	3 ³ 0	11 ³ 51	18 ³ 53	4 ³ 7	7 ³ 6	8 ³ 53	29 ³ 47	29 ³ 9	7 ³ 51	21 ³ 19	S 19
S 20	8 33 48	9 ³ 32'07	2 ³ Y23	0 ³ 14	8 ³ 59	2 ³ 43	11 ³ 56	18 ³ 50	4 ³ 4	7 ³ 8	8 ³ 55	29 ³ 39	29 ³ 6	7 ³ 58	21 ³ 21	S 20
M21	8 37 45	10 ³ 32'55	14 ³ 13	1 ³ 53	10 ³ 13	2 ³ 25	12 ³ 0	18 ³ 47	4 ³ 2	7 ³ 9	8 ³ 56	29 ³ 33	29 ³ 3	8 ³ 5	21 ³ 22	M21
T 22	8 41 41	11 ³ 33'41	26 ³ 2	3 ³ 33	11 ³ 27	2 ³ 6	12 ³ 5	18 ³ 44	3 ³ 59	7 ³ 11	8 ³ 58	29 ³ 29	29 ³ 0	8 ³ 11	21 ³ 24	T 22
W23	8 45 38	12 ³ 34'27	7 ³ Y55	5 ³ 13	12 ³ 41	1 ³ 47	12 ³ 11	18 ³ 41	3 ³ 57	7 ³ 12	9 ³ 0	29 ³ D28	28 ³ 56	8 ³ 18	21 ³ 26	W23
T 24	8 49 34	13 ³ 35'12	19 ³ 56	6 ³ 54	13 ³ 55	1 ³ 27	12 ³ 16	18 ³ 37	3 ³ 54	7 ³ 14	9 ³ 2	29 ³ 28	28 ³ 53	8 ³ 25	21 ³ 28	T 24
F 25	8 53 31	14 ³ 35'56	2 ³ Y11	8 ³ 37	15 ³ 10	1 ³ 7	12 ³ 22	18 ³ 34	3 ³ 51	7 ³ 15	9 ³ 4	29 ³ R28	28 ³ 50	8 ³ 31	21 ³ 30	F 25
S 26	8 57 27	15 ³ 36'39	14 ³ 45	10 ³ 19	16 ³ 24	0 ³ 46	12 ³ 27	18 ³ 30	3 ³ 49	7 ³ 17	9 ³ 5	29 ³ 27	28 ³ 47	8 ³ 38	21 ³ 32	S 26
S 27	9 1 24	16 ³ 37'20	27 ³ 44	12 ³ 3	17 ³ 38	0 ³ 25	12 ³ 33	18 ³ 27	3 ³ 46	7 ³ 18	9 ³ 7	29 ³ 24	28 ³ 44	8 ³ 45	21 ³ 34	S 27
M28	9 5 21	17 ³ 38'01	11 ³ Y 9	13 ³ 48	18 ³ 52	0 ³ 3	12 ³ 39	18 ³ 23	3 ³ 44	7 ³ 20	9 ³ 9	29 ³ 19	28 ³ 41	8 ³ 52	21 ³ 36	M28
T 29	9 9 17	18 ³ 38'40	25 ³ 2	15 ³ 33	20 ³ 6	29 ³ Y41	12 ³ 46	18 ³ 19	3 ³ 41	7 ³ 21	9 ³ 11	29 ³ 10	28 ³ 37	8 ³ 58	21 ³ 38	T 29
W30	9 13 14	19 ³ 39'18	9 ³ Y20	17 ³ 20	21 ³ 20	29 ³ 18	12 ³ 52	18 ³ 15	3 ³ 39	7 ³ 23	9 ³ 13	29 ³ 0	28 ³ 34	9 ³ 5	21 ³ 40	W30
T 31	9 17 10	20 ³ 39'54	23 ³ Y58	19 ³ Y 7	22 ³ Y34	28 ³ Y55	12 ³ Y59	18 ³ Y11	3 ³ Y36	7 ³ Y25	9 ³ Y14	28 ³ Y48	28 ³ Y31	9 ³ Y12	21 ³ Y43	T 31

Delta T = 206.39 sec

Julian Calendar 1 Jan. 1538 == Greg. Calendar 11 Jan. 1538

FEBRUARY 1538 JC

00:00 UT

Day	Sid.t	☉	☾	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 21 7	21 ³ 40'29	8 ³ Y49	20 ³ Y55	23 ³ Y48	28°R32	13 ³ Y 5	18°R 7	3°R34	7°Y26	9 ³ Y16	28°R36	28 ³ Y28	9 ³ Y18	21°Y45	F 1
S 2	9 25 3	22°41'02	23°43	22°44	25° 3	28 ³ Y 9	13°12	18 ³ Y 3	3 ³ Y31	7°28	9°18	28 ³ Y25	28°25	9°25	21°47	S 2
S 3	9 29 0	23°41'33	8°Y32	24°33	26°17	27°45	13°19	17°59	3°29	7°30	9°20	28°17	28°22	9°32	21°50	S 3
M 4	9 32 56	24°42'03	23° 9	26°24	27°31	27°21	13°27	17°55	3°27	7°32	9°22	28°12	28°18	9°38	21°52	M 4
T 5	9 36 53	25°42'30	7 ³ Y29	28°15	28°45	26°58	13°34	17°51	3°24	7°33	9°23	28°10	28°15	9°45	21°55	T 5
W 6	9 40 50	26°42'56	21°30	0 ³ Y 7	29°59	26°34	13°41	17°47	3°22	7°35	9°25	28° 9	28°12	9°52	21°57	W 6
T 7	9 44 46	27°43'20	5 ³ Y12	2° 0	1 ³ Y13	26°10	13°49	17°43	3°20	7°37	9°27	28° 9	28° 9	9°58	22° 0	T 7
F 8	9 48 43	28°43'41	18°37	3°53	2°27	25°46	13°57	17°38	3°17	7°39	9°29	28° 8	28° 6	10° 5	22° 2	F 8
S 9	9 52 39	29°44'01	1 ³ Y46	5°46	3°42	25°22	14° 5	17°34	3°15	7°41	9°30	28° 5	28° 2	10°12	22° 5	S 9
S 10	9 56 36	0 ³ Y44'19	14°42	7°40	4°56	24°59	14°13	17°29	3°13	7°43	9°32	28° 0	27°59	10°18	22° 8	S 10
M11	10 0 32	1°44'35	27°27	9°34	6°10	24°35	14°21	17°25	3°10	7°45	9°34	27°51	27°56	10°25	22°10	M11
T 12	10 4 29	2°44'49	10 ³ Y 1	11°28	7°24	24°12	14°30	17°20	3° 8	7°47	9°35	27°40	27°53	10°32	22°13	T 12
W13	10 8 25	3°45'00	22°26	13°22	8°38	23°49	14°38	17°16	3° 6	7°48	9°37	27°26	27°50	10°39	22°16	W13
T 14	10 12 22	4°45'10	4 ³ Y42	15°15	9°52	23°26	14°47	17°11	3° 4	7°50	9°39	27°12	27°47	10°45	22°19	T 14
F 15	10 16 19	5°45'19	16°49	17° 8	11° 7	23° 4	14°55	17° 7	3° 2	7°52	9°41	26°58	27°43	10°52	22°22	F 15
S 16	10 20 15	6°45'25	28°48	18°59	12°21	22°42	15° 4	17° 2	3° 0	7°54	9°42	26°45	27°40	10°59	22°25	S 16
S 17	10 24 12	7°45'29	10 ³ Y41	20°49	13°35	22°21	15°13	16°57	2°58	7°56	9°44	26°35	27°37	11° 5	22°28	S 17
M18	10 28 8	8°45'32	22°30	22°37	14°49	22° 0	15°23	16°53	2°56	7°58	9°45	26°28	27°34	11°12	22°31	M18
T 19	10 32 5	9°45'33	4 ³ Y18	24°23	16° 3	21°39	15°32	16°48	2°54	8° 0	9°47	26°23	27°31	11°19	22°34	T 19
W20	10 36 1	10°45'33	16°10	26° 5	17°18	21°19	15°41	16°43	2°52	8° 3	9°49	26°21	27°27	11°25	22°37	W20
T 21	10 39 58	11°45'30	28° 9	27°45	18°32	20°59	15°51	16°39	2°50	8° 5	9°50	26°D21	27°24	11°32	22°40	T 21
F 22	10 43 54	12°45'27	10 ³ Y21	29°20	19°46	20°40	16° 0	16°34	2°48	8° 7	9°52	26°R21	27°21	11°39	22°43	F 22
S 23	10 47 51	13°45'21	22°52	0°Y51	21° 0	20°22	16°10	16°29	2°46	8° 9	9°53	26°21	27°18	11°45	22°46	S 23
S 24	10 51 47	14°45'14	5 ³ Y46	2°17	22°14	20° 4	16°20	16°24	2°45	8°11	9°55	26°19	27°15	11°52	22°49	S 24
M25	10 55 44	15°45'05	19° 8	3°38	23°28	19°47	16°30	16°20	2°43	8°13	9°57	26°15	27°12	11°59	22°53	M25
T 26	10 59 41	16°44'55	2 ³ Y59	4°53	24°43	19°31	16°40	16°15	2°41	8°15	9°58	26° 8	27° 8	12° 5	22°56	T 26
W27	11 3 37	17°44'42	17°20	6° 1	25°57	19°15	16°50	16°10	2°40	8°17	10° 0	25°59	27° 5	12°12	22°59	W27
T 28	11 7 34	18°44'28	2°Y 6	7°Y 3	27°Y11	19°Y 0	17°Y 1	16°Y 5	2°Y38	8°Y19	10°Y 1	25°Y49	27°Y 2	12°Y19	23°Y 3	T 28

ASTRODIENST EPHEMERIS for the year 1538

geocentric

MARCH 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 11 30	19°44'12	17°10	7°58	28°25	18°R46	17°11	16°R 1	2°R37	8°Y22	10°33	25°R39	26°59	12°25	23°Y 6	F 1
S 2	11 15 27	20°43'54	2°Y22	8°45	29°39	18°R33	17°22	15°R56	2°R35	8°24	10° 4	25°R29	26°56	12°32	23° 9	S 2
S 3	11 19 23	21°43'33	17°32	9°24	0°54	18°20	17°32	15°51	2°34	8°26	10° 6	25°22	26°53	12°39	23°13	S 3
M 4	11 23 20	22°43'11	2°30	9°55	2° 8	18° 8	17°43	15°46	2°32	8°28	10° 7	25°18	26°49	12°46	23°16	M 4
T 5	11 27 16	23°42'46	17° 8	10°18	3°22	17°57	17°54	15°42	2°31	8°30	10° 8	25°16	26°46	12°52	23°20	T 5
W 6	11 31 13	24°42'19	1°12	10°34	4°36	17°46	18° 5	15°37	2°29	8°33	10°10	25°D16	26°43	12°59	23°23	W 6
T 7	11 35 10	25°41'50	15°12	10°R41	5°50	17°37	18°16	15°32	2°28	8°35	10°11	25°16	26°40	13° 6	23°27	T 7
F 8	11 39 6	26°41'19	28°39	10°40	7° 4	17°28	18°27	15°28	2°27	8°37	10°12	25°R17	26°37	13°12	23°30	F 8
S 9	11 43 3	27°40'45	1°12	10°32	8°18	17°20	18°38	15°23	2°26	8°39	10°14	25°16	26°33	13°19	23°34	S 9
S 10	11 46 59	28°40'08	24°32	10°16	9°33	17°13	18°49	15°19	2°25	8°41	10°15	25°12	26°30	13°26	23°38	S 10
M 11	11 50 56	29°39'30	7°R 5	9°54	10°47	17° 6	19° 1	15°14	2°24	8°44	10°16	25° 7	26°27	13°32	23°41	M 11
T 12	11 54 52	0°Y38'49	19°26	9°25	12° 1	17° 1	19°12	15°10	2°23	8°46	10°18	24°59	26°24	13°39	23°45	T 12
W 13	11 58 49	1°38'06	1°R37	8°51	13°15	16°56	19°24	15° 5	2°22	8°48	10°19	24°50	26°21	13°46	23°49	W 13
T 14	12 2 45	2°37'20	13°41	8°12	14°29	16°52	19°36	15° 1	2°21	8°50	10°20	24°40	26°18	13°52	23°52	T 14
F 15	12 6 42	3°36'32	25°39	7°29	15°43	16°48	19°47	14°56	2°20	8°53	10°21	24°30	26°14	13°59	23°56	F 15
S 16	12 10 39	4°35'43	7°R32	6°43	16°57	16°46	19°59	14°52	2°19	8°55	10°23	24°21	26°11	14° 6	24° 0	S 16
S 17	12 14 35	5°34'51	19°22	5°54	18°11	16°44	20°11	14°48	2°18	8°57	10°24	24°13	26° 8	14°12	24° 3	S 17
M 18	12 18 32	6°33'57	1°R11	5° 5	19°25	16°43	20°23	14°43	2°17	9° 0	10°25	24° 8	26° 5	14°19	24° 7	M 18
T 19	12 22 28	7°33'01	13° 1	4°16	20°39	16°D42	20°35	14°39	2°17	9° 2	10°26	24° 6	26° 2	14°26	24°11	T 19
W 20	12 26 25	8°32'04	24°56	3°28	21°53	16°43	20°47	14°35	2°16	9° 4	10°27	24°D 5	25°59	14°32	24°15	W 20
T 21	12 30 21	9°31'04	6°Y58	2°42	23° 7	16°44	20°59	14°31	2°16	9° 6	10°28	24° 6	25°55	14°39	24°19	T 21
F 22	12 34 18	10°30'03	19°12	1°58	24°21	16°46	21°11	14°27	2°15	9° 9	10°29	24° 7	25°52	14°46	24°22	F 22
S 23	12 38 14	11°29'00	1°R42	1°17	25°35	16°48	21°24	14°23	2°15	9°11	10°30	24° 8	25°49	14°52	24°26	S 23
S 24	12 42 11	12°27'56	14°33	0°41	26°50	16°52	21°36	14°19	2°14	9°13	10°31	24°R 9	25°46	14°59	24°30	S 24
M 25	12 46 8	13°26'49	27°48	0° 8	28° 4	16°56	21°49	14°15	2°14	9°15	10°32	24° 8	25°43	15° 6	24°34	M 25
T 26	12 50 4	14°25'41	1°R32	29°41	29°18	17° 0	22° 1	14°11	2°13	9°18	10°33	24° 5	25°39	15°13	24°38	T 26
W 27	12 54 1	15°24'31	25°44	29°18	0°Y32	17° 5	22°14	14° 8	2°13	9°20	10°34	24° 1	25°36	15°19	24°42	W 27
T 28	12 57 57	16°23'19	10°R22	29° 0	1°46	17°11	22°26	14° 4	2°13	9°22	10°35	23°56	25°33	15°26	24°45	T 28
F 29	13 1 54	17°22'06	25°21	28°48	3° 0	17°18	22°39	14° 0	2°13	9°24	10°36	23°50	25°30	15°33	24°49	F 29
S 30	13 5 50	18°20'50	10°Y34	28°41	4°14	17°25	22°52	13°57	2°13	9°27	10°37	23°45	25°27	15°39	24°53	S 30
S 31	13 9 47	19°Y19'33	25°Y49	28°D39	5°Y28	17°R33	23°R 5	13°R54	2°D13	9°Y29	10°R38	23°R41	25°R24	15°R46	24°Y57	S 31

Delta T = 206.03 sec

Julian Calendar 1 March 1538 == Greg. Calendar 11 March 1538

APRIL 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 13 43	20°Y18'13	10°R57	28°R43	6°Y42	17°R42	23°R17	13°R50	2°R13	9°Y31	10°R39	23°R39	25°R20	15°R53	25°Y 1	M 1
T 2	13 17 40	21°16'52	25°48	28°51	7°56	17°51	23°30	13°R47	2°13	9°33	10°40	23°D39	25°17	15°59	25° 5	T 2
W 3	13 21 37	22°15'28	10°R17	29° 5	9°10	18° 0	23°43	13°44	2°13	9°36	10°40	23°R39	25°14	16° 6	25° 9	W 3
T 4	13 25 33	23°14'03	24°19	29°23	10°24	18°11	23°56	13°41	2°13	9°38	10°41	23°41	25°11	16°13	25°13	T 4
F 5	13 29 30	24°12'35	7°R55	29°46	11°38	18°21	24° 9	13°38	2°13	9°40	10°42	23°42	25° 8	16°19	25°17	F 5
S 6	13 33 26	25°11'05	21° 6	0°Y13	12°51	18°33	24°23	13°35	2°14	9°42	10°43	23°R43	25° 5	16°26	25°21	S 6
S 7	13 37 23	26° 9'32	3°R54	0°45	14° 5	18°45	24°36	13°32	2°14	9°45	10°43	23°43	25° 1	16°33	25°24	S 7
M 8	13 41 19	27° 7'58	16°24	1°20	15°19	18°57	24°49	13°29	2°14	9°47	10°44	23°42	24°58	16°39	25°28	M 8
T 9	13 45 16	28° 6'21	28°40	1°59	16°33	19°10	25° 2	13°26	2°15	9°49	10°45	23°39	24°55	16°46	25°32	T 9
W 10	13 49 12	29° 4'42	10°R44	2°43	17°47	19°24	25°15	13°24	2°15	9°51	10°45	23°35	24°52	16°53	25°36	W 10
T 11	13 53 9	0°R3'02	22°40	3°29	19° 1	19°38	25°29	13°21	2°16	9°53	10°46	23°32	24°49	16°59	25°40	T 11
F 12	13 57 6	1° 1'19	4°R32	4°19	20°15	19°52	25°42	13°19	2°17	9°55	10°46	23°28	24°45	17° 6	25°44	F 12
S 13	14 1 2	1°59'34	16°22	5°13	21°29	20° 7	25°56	13°16	2°17	9°58	10°47	23°24	24°42	17°13	25°48	S 13
S 14	14 4 59	2°57'47	28°11	6° 9	22°43	20°23	26° 9	13°14	2°18	10° 0	10°47	23°22	24°39	17°19	25°52	S 14
M 15	14 8 55	3°55'59	10°R 3	7° 9	23°56	20°39	26°22	13°12	2°19	10° 2	10°48	23°20	24°36	17°26	25°56	M 15
T 16	14 12 52	4°54'09	21°59	8°11	25°10	20°55	26°36	13°10	2°20	10° 4	10°48	23°D20	24°33	17°33	25°59	T 16
W 17	14 16 48	5°52'17	4°R 2	9°16	26°24	21°12	26°49	13° 8	2°20	10° 6	10°49	23°20	24°30	17°39	26° 3	W 17
T 18	14 20 45	6°50'24	16°13	10°24	27°38	21°29	27° 3	13° 6	2°21	10° 8	10°49	23°21	24°26	17°46	26° 7	T 18
F 19	14 24 41	7°48'29	28°36	11°34	28°52	21°47	27°17	13° 4	2°22	10°10	10°50	23°22	24°23	17°53	26°11	F 19
S 20	14 28 38	8°46'33	1°R13	12°47	0°R 6	22° 5	27°30	13° 3	2°23	10°12	10°50	23°23	24°20	17°59	26°15	S 20
S 21	14 32 35	9°44'35	24° 7	14° 3	1°20	22°23	27°44	13° 1	2°24	10°14	10°50	23°24	24°17	18° 6	26°19	S 21
M 22	14 36 31	10°42'36	7°R22	15°21	2°33	22°42	27°58	13° 0	2°26	10°16	10°51	23°R25	24°14	18°13	26°23	M 22
T 23	14 40 28	11°40'36	20°59	16°41	3°47	23° 2	28°11	12°58	2°27	10°18	10°51	23°25	24°10	18°19	26°26	T 23
W 24	14 44 24	12°38'34	5°R 0	18° 3	5° 1	23°21	28°25	12°57	2°28	10°20	10°51	23°24	24° 7	18°26	26°30	W 24
T 25	14 48 21	13°36'31	19°23	19°28	6°15	23°41	28°39	12°56	2°29	10°22	10°51	23°23	24° 4	18°33	26°34	T 25
F 26	14 52 17	14°34'26	4°Y 6	20°55	7°29	24° 2	28°53	12°55	2°31	10°24	10°51	23°22	24° 1	18°39	26°38	F 26
S 27	14 56 14	15°32'20	19° 3	22°24	8°42	24°22	29° 7	12°54	2°32	10°26	10°52	23°21	23°58	18°46	26°42	S 27
S 28	15 0 10	16°30'13	4°R 7	23°55	9°56	24°44	29°20	12°53	2°33	10°28	10°52	23°21	23°55	18°53	26°45	S 28
M 29	15 4 7	17°28'05	19° 8	25°29	11°10	25° 5	29°34	12°52	2°35	10°30	10°52	23°D20	23°51	18°59	26°49	M 29
T 30	15 8 3	18°R25'55	3°R59	27°Y 5	12°R24	25°R27	29°R48	12°R51	2°R36	10°Y32	10°R52	23°R20	23°R48	19°R 6	26°Y53	T 30

Delta T = 205.84 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1538

geocentric

MAY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 12 0	19°8'23.43	18°11'32	28°42'42	13°8'38	25°12'49	0°11'2	12°R51	2°13'38	10°47'34	10°44'52	23°R21	23°44'5	19°11'13	26°47'56	W 1
T 2	15 15 57	20°21'31	2°24'42	0°8'22	14°51	26°12	0°16	12°11'50	2°40	10°36	10°52	23°21	23°42	19°19	27° 0	T 2
F 3	15 19 53	21°19'16	16°26	2° 4	16° 5	26°34	0°30	12°50	2°41	10°37	10°R52	23°21	23°39	19°26	27° 4	F 3
S 4	15 23 50	22°17'00	29°44	3°48	17°19	26°58	0°44	12°50	2°43	10°39	10°52	23°21	23°36	19°33	27° 7	S 4
S 5	15 27 46	23°14'42	12°12'37	5°34	18°33	27°21	0°58	12°50	2°45	10°41	10°52	23°R21	23°32	19°39	27°11	S 5
M 6	15 31 43	24°12'22	25°10	7°23	19°46	27°45	1°12	12°D49	2°47	10°43	10°52	23°D21	23°29	19°46	27°15	M 6
T 7	15 35 39	25°10'01	7°11'25	9°13	21° 0	28° 9	1°26	12°50	2°48	10°45	10°52	23°21	23°26	19°53	27°18	T 7
W 8	15 39 36	26° 7'39	19°28	11° 6	22°14	28°33	1°40	12°50	2°50	10°46	10°52	23°22	23°23	19°59	27°22	W 8
T 9	15 43 33	27° 5'14	1°12'22	13° 1	23°28	28°58	1°54	12°50	2°52	10°48	10°51	23°22	23°20	20° 6	27°25	T 9
F 10	15 47 29	28° 2'49	13°11	14°57	24°41	29°23	2° 7	12°50	2°54	10°50	10°51	23°22	23°16	20°13	27°29	F 10
S 11	15 51 26	29° 0'22	25° 0	16°56	25°55	29°48	2°21	12°51	2°56	10°51	10°51	23°23	23°13	20°19	27°32	S 11
S 12	15 55 22	29°57'54	6°11'52	18°57	27° 9	0°11'13	2°35	12°51	2°58	10°53	10°51	23°23	23°10	20°26	27°36	S 12
M13	15 59 19	0°11'55'24	18°49	20°59	28°22	0°39	2°49	12°52	3° 1	10°55	10°51	23°R24	23° 7	20°33	27°39	M13
T 14	16 3 15	1°52'54	0°11'55	23° 4	29°36	1° 5	3° 3	12°53	3° 3	10°56	10°50	23°24	23° 4	20°39	27°43	T 14
W15	16 7 12	2°50'22	13°10	25°10	0°11'50	1°31	3°17	12°54	3° 5	10°58	10°50	23°23	23° 1	20°46	27°46	W15
T 16	16 11 8	3°47'49	25°36	27°17	2° 4	1°57	3°31	12°55	3° 7	10°59	10°50	23°22	22°57	20°53	27°49	T 16
F 17	16 15 5	4°45'16	8°11'15	29°26	3°17	2°24	3°45	12°56	3°10	11° 1	10°49	23°21	22°54	20°59	27°53	F 17
S 18	16 19 2	5°42'42	21° 7	1°11'36	4°31	2°51	3°59	12°57	3°12	11° 2	10°49	23°19	22°51	21° 6	27°56	S 18
S 19	16 22 58	6°40'06	4°11'15	3°47	5°45	3°18	4°13	12°58	3°14	11° 4	10°48	23°18	22°48	21°13	27°59	S 19
M20	16 26 55	7°37'31	17°37	5°58	6°58	3°46	4°27	13° 0	3°17	11° 5	10°48	23°16	22°45	21°19	28° 2	M20
T 21	16 30 51	8°34'54	1°11'16	8°10	8°12	4°13	4°41	13° 1	3°19	11° 7	10°48	23°16	22°42	21°26	28° 6	T 21
W22	16 34 48	9°32'17	15°11	10°22	9°26	4°41	4°55	13° 3	3°22	11° 8	10°47	23°D16	22°38	21°33	28° 9	W22
T 23	16 38 44	10°29'39	29°22	12°34	10°40	5° 9	5° 9	13° 4	3°24	11° 9	10°47	23°16	22°35	21°39	28°12	T 23
F 24	16 42 41	11°27'01	13°46	14°46	11°53	5°37	5°23	13° 6	3°27	11°11	10°46	23°17	22°32	21°46	28°15	F 24
S 25	16 46 37	12°24'22	28°21	16°57	13° 7	6° 6	5°37	13° 8	3°29	11°12	10°46	23°18	22°29	21°53	28°18	S 25
S 26	16 50 34	13°21'43	13° 2	19° 7	14°21	6°34	5°51	13°10	3°32	11°13	10°45	23°19	22°26	21°59	28°21	S 26
M27	16 54 31	14°19'03	27°44	21°15	15°34	7° 3	6° 5	13°12	3°35	11°15	10°44	23°R20	22°22	22° 6	28°24	M27
T 28	16 58 27	15°16'23	12°11'20	23°23	16°48	7°32	6°19	13°14	3°37	11°16	10°44	23°19	22°19	22°13	28°27	T 28
W29	17 2 24	16°13'42	26°43	25°29	18° 2	8° 2	6°33	13°17	3°40	11°17	10°43	23°17	22°16	22°19	28°30	W29
T 30	17 6 20	17°11'00	10°24'49	27°33	19°16	8°31	6°46	13°19	3°43	11°18	10°42	23°14	22°13	22°26	28°33	T 30
F 31	17 10 17	18°11'18	24°24'32	29°11'35	20°11'29	9°11	7°11	13°21	3°46	11°19	10°42	23°10	22°10	22°33	28°36	F 31

Delta T = 205.66 sec

Julian Calendar 1 May 1538 == Greg. Calendar 11 May 1538

JUNE 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 14 13	19°11'53	7°11'52	1°23'35	21°11'43	9°11'31	7°11'14	13°11'24	3°11'49	11°11'21	10°11'41	23°R 7	22°11'8	22°11'39	28°11'39	S 1
S 2	17 18 10	20° 2'51	20°49	3°34	22°57	10° 1	7°28	13°27	3°52	11°22	10°44	23°R 3	22° 3	22°46	28°41	S 2
M 3	17 22 6	21° 0'06	3°11'24	5°30	24°10	10°31	7°42	13°29	3°54	11°23	10°40	23° 1	22° 0	22°53	28°44	M 3
T 4	17 26 3	21°57'21	15°41	7°24	25°24	11° 1	7°55	13°32	3°57	11°24	10°39	23° 0	21°57	22°59	28°47	T 4
W 5	17 30 0	22°54'35	27°44	9°16	26°38	11°32	8° 9	13°35	4° 0	11°25	10°38	23°D 0	21°54	23° 6	28°49	W 5
T 6	17 33 56	23°51'48	9°11'38	11° 5	27°52	12° 3	8°23	13°38	4° 3	11°26	10°37	23° 1	21°51	23°13	28°52	T 6
F 7	17 37 53	24°49'00	21°28	12°53	29° 5	12°34	8°36	13°41	4° 6	11°27	10°36	23° 2	21°48	23°19	28°55	F 7
S 8	17 41 49	25°46'12	3°11'18	14°38	0°11'19	13° 5	8°50	13°44	4°10	11°28	10°35	23° 4	21°44	23°26	28°57	S 8
S 9	17 45 46	26°43'23	15°13	16°21	1°33	13°36	9° 4	13°48	4°13	11°28	10°35	23° 5	21°41	23°33	29° 0	S 9
M10	17 49 42	27°40'34	27°17	18° 1	2°46	14° 8	9°17	13°51	4°16	11°29	10°34	23°R 5	21°38	23°39	29° 2	M10
T 11	17 53 39	28°37'45	9°11'32	19°39	4° 0	14°39	9°31	13°55	4°19	11°30	10°33	23° 4	21°35	23°46	29° 4	T 11
W12	17 57 35	29°34'55	22° 2	21°15	5°14	15°11	9°44	13°58	4°22	11°31	10°32	23° 1	21°32	23°53	29° 7	W12
T 13	18 1 32	0°32'06	4°34'46	22°49	6°28	15°43	9°58	14° 2	4°25	11°32	10°31	22°57	21°28	23°59	29° 9	T 13
F 14	18 5 29	1°29'16	17°47	24°20	7°41	16°15	10°11	14° 6	4°29	11°32	10°30	22°51	21°25	24° 6	29°11	F 14
S 15	18 9 25	2°26'26	1°11'1	25°49	8°55	16°47	10°25	14° 9	4°32	11°33	10°29	22°44	21°22	24°13	29°14	S 15
S 16	18 13 22	3°23'36	14°30	27°16	10° 9	17°19	10°38	14°13	4°35	11°34	10°28	22°38	21°19	24°19	29°16	S 16
M17	18 17 18	4°20'46	28°10	28°40	11°22	17°52	10°51	14°17	4°38	11°34	10°27	22°33	21°16	24°26	29°18	M17
T 18	18 21 15	5°17'56	12°11'1	0°11'2	12°36	18°25	11° 5	14°21	4°42	11°35	10°26	22°29	21°13	24°33	29°20	T 18
W19	18 25 11	6°15'07	25°59	1°21	13°50	18°57	11°18	14°25	4°45	11°36	10°25	22°27	21° 9	24°39	29°22	W19
T 20	18 29 8	7°12'17	10°11'5	2°38	15° 4	19°30	11°31	14°30	4°48	11°36	10°24	22°D26	21° 6	24°46	29°24	T 20
F 21	18 33 4	8° 9'29	24°17	3°53	16°17	20° 3	11°44	14°34	4°52	11°37	10°23	22°27	21° 3	24°53	29°26	F 21
S 22	18 37 1	9° 6'40	8°11'33	5° 4	17°31	20°37	11°57	14°38	4°55	11°37	10°21	22°28	21° 0	24°59	29°28	S 22
S 23	18 40 58	10° 3'52	22°50	6°13	18°45	21°10	12°11	14°43	4°59	11°38	10°20	22°R29	20°57	25° 6	29°30	S 23
M24	18 44 54	11° 1'05	7°11'7	7°20	19°59	21°44	12°24	14°47	5° 2	11°38	10°19	22°28	20°54	25°13	29°31	M24
T 25	18 48 51	11°58'18	21°18	8°23	21°12	22°17	12°37	14°52	5° 6	11°38	10°18	22°25	20°50	25°19	29°33	T 25
W26	18 52 47	12°55'32	5°11'21	9°24	22°26	22°51	12°50	14°57	5° 9	11°39	10°17	22°20	20°47	25°26	29°35	W26
T 27	18 56 44	13°52'45	19°11	10°21	23°40	23°25	13° 2	15° 1	5°13	11°39	10°16	22°13	20°44	25°33	29°36	T 27
F 28	19 0 40	14°49'59	2°11'43	11°15	24°54	23°59	13°15	15° 6	5°16	11°39	10°15	22° 4	20°41	25°39	29°38	F 28
S 29	19 4 37	15°47'13	15°57	12° 7	26° 7	24°33	13°28	15°11	5°20	11°39	10°13	21°55	20°38	25°46	29°40	S 29
S 30	19 8 34	16°44'28	28°11'50	12°11'54	27°11'21	25°11'8	13°11'41	15°11'16	5°11'23	11°40	10°12	21°R47	20°11'34	25°11'53	29°41	S 30

Delta T = 205.47 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1538

geocentric

JULY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 12 30	17°41'42"	11°24'	13°38'	28°35'	25°42'	13°54'	15°21'	5°27'	11°40'	10°R11	21°R39	20°31'	25°59'	29°42'	M 1
T 2	19 16 27	18°38'57"	23°40'	14°19'	29°49'	26°17'	14° 6'	15°26'	5°30'	11°40'	10°R10	21°R34	20°28'	26° 6'	29°44'	T 2
W 3	19 20 23	19°36'12"	5°43'	14°56'	1° 2'	26°51'	14°19'	15°31'	5°34'	11°40'	10° 8'	21°31'	20°25'	26°13'	29°45'	W 3
T 4	19 24 20	20°33'27"	17°37'	15°28'	2°16'	27°26'	14°31'	15°37'	5°38'	11°40'	10° 7'	21°D30	20°22'	26°19'	29°46'	T 4
F 5	19 28 16	21°30'42"	29°26'	15°57'	3°30'	28° 1'	14°44'	15°42'	5°41'	11°40'	10° 6'	21°30'	20°19'	26°26'	29°48'	F 5
S 6	19 32 13	22°27'58"	11°17'	16°21'	4°44'	28°36'	14°56'	15°47'	5°45'	11°R40	10° 5'	21°31'	20°15'	26°33'	29°49'	S 6
S 7	19 36 9	23°25'14"	23°14'	16°41'	5°57'	29°11'	15° 8'	15°53'	5°48'	11°40'	10° 3'	21°R31	20°12'	26°39'	29°50'	S 7
M 8	19 40 6	24°22'30"	5°22'	16°56'	7°11'	29°47'	15°21'	15°58'	5°52'	11°40'	10° 2'	21°30'	20° 9'	26°46'	29°51'	M 8
T 9	19 44 3	25°19'47"	17°46'	17° 7'	8°25'	0°22'	15°33'	16° 4'	5°56'	11°40'	10° 1'	21°27'	20° 6'	26°53'	29°52'	T 9
W10	19 47 59	26°17'05"	0°32'	17°12'	9°39'	0°57'	15°45'	16° 9'	5°59'	11°40'	9°59'	21°22'	20° 3'	26°59'	29°53'	W10
T 11	19 51 56	27°14'23"	13°29'	17°R13	10°52'	1°33'	15°57'	16°15'	6° 3'	11°40'	9°58'	21°14'	20° 0'	27° 6'	29°54'	T 11
F 12	19 55 52	28°11'42"	26°51'	17° 8'	12° 6'	2° 9'	16° 9'	16°21'	6° 7'	11°40'	9°57'	21° 5'	19°56'	27°13'	29°54'	F 12
S 13	19 59 49	29° 9'01"	10°30'	16°59'	13°20'	2°45'	16°21'	16°27'	6°10'	11°39'	9°56'	20°54'	19°53'	27°19'	29°55'	S 13
S 14	20 3 45	0° 6'22"	24°25'	16°44'	14°34'	3°21'	16°33'	16°32'	6°14'	11°39'	9°54'	20°43'	19°50'	27°26'	29°56'	S 14
M15	20 7 42	1° 3'43"	8°30'	16°25'	15°47'	3°57'	16°45'	16°38'	6°18'	11°39'	9°53'	20°34'	19°47'	27°33'	29°57'	M15
T 16	20 11 38	2° 1'05"	22°41'	16° 0'	17° 1'	4°33'	16°56'	16°44'	6°22'	11°39'	9°52'	20°27'	19°44'	27°39'	29°57'	T 16
W17	20 15 35	2°58'29"	6°54'	15°31'	18°15'	5° 9'	17° 8'	16°50'	6°25'	11°38'	9°50'	20°22'	19°40'	27°46'	29°58'	W17
T 18	20 19 32	3°55'53"	21° 6'	14°57'	19°29'	5°46'	17°19'	16°56'	6°29'	11°38'	9°49'	20°20'	19°37'	27°52'	29°58'	T 18
F 19	20 23 28	4°53'19"	5°16'	14°20'	20°42'	6°22'	17°31'	17° 3'	6°33'	11°37'	9°48'	20°D19	19°34'	27°59'	29°59'	F 19
S 20	20 27 25	5°50'46"	19°20'	13°39'	21°56'	6°59'	17°42'	17° 9'	6°36'	11°37'	9°46'	20°R20	19°31'	28° 6'	29°59'	S 20
S 21	20 31 21	6°48'15"	3°20'	12°55'	23°10'	7°36'	17°54'	17°15'	6°40'	11°37'	9°45'	20°19'	19°28'	28°12'	29°59'	S 21
M22	20 35 18	7°45'45"	17°14'	12° 9'	24°24'	8°12'	18° 5'	17°21'	6°44'	11°36'	9°43'	20°17'	19°25'	28°19'	29°59'	M22
T 23	20 39 14	8°43'16"	1° 1'	11°22'	25°37'	8°49'	18°16'	17°28'	6°48'	11°36'	9°42'	20°12'	19°21'	28°26'	29°59'	T 23
W24	20 43 11	9°40'49"	14°39'	10°34'	26°51'	9°26'	18°27'	17°34'	6°51'	11°35'	9°41'	20° 4'	19°18'	28°32'	29°59'	W24
T 25	20 47 7	10°38'23"	28° 7'	9°46'	28° 5'	10° 4'	18°38'	17°40'	6°55'	11°34'	9°39'	19°54'	19°15'	28°39'	29°59'	T 25
F 26	20 51 4	11°35'58"	11°20'	9° 0'	29°18'	10°41'	18°49'	17°47'	6°59'	11°34'	9°38'	19°42'	19°12'	28°46'	29°R59	F 26
S 27	20 55 1	12°33'34"	24°19'	8°16'	0°32'	11°18'	18°59'	17°53'	7° 2'	11°33'	9°37'	19°29'	19° 9'	28°52'	29°59'	S 27
S 28	20 58 57	13°31'11"	7°22'	7°34'	1°46'	11°56'	19°10'	18° 0'	7° 6'	11°32'	9°35'	19°17'	19° 6'	28°59'	29°59'	S 28
M29	21 2 54	14°28'49"	19°28'	6°57'	3° 0'	12°33'	19°21'	18° 7'	7°10'	11°32'	9°34'	19° 6'	19° 2'	29° 6'	29°59'	M29
T 30	21 6 50	15°26'28"	1°40'	6°24'	4°13'	13°11'	19°31'	18°13'	7°13'	11°31'	9°33'	18°58'	18°59'	29°12'	29°59'	T 30
W31	21 10 47	16°24'09"	13°40'	5°57'	5°27'	13°49'	19°42'	18°20'	7°17'	11°30'	9°31'	18°52'	18°56'	29°19'	29°59'	W31

Delta T = 205.28 sec

Julian Calendar 1 July 1538 == Greg. Calendar 11 July 1538

AUGUST 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 14 43	17°21'50"	25°32'	5°R36	6°41'	14°27'	19°52'	18°27'	7°21'	11°R29	9°R30	18°R49	18°53'	29°26'	29°R59	T 1
F 2	21 18 40	18°19'33"	7°20'	5°21'	7°54'	15° 5'	20° 2'	18°33'	7°24'	11°R29	9°R29	18°R48	18°50'	29°32'	29°58'	F 2
S 3	21 22 36	19°17'17"	19°10'	5°13'	9° 8'	15°43'	20°12'	18°40'	7°28'	11°28'	9°27'	18°48'	18°46'	29°39'	29°58'	S 3
S 4	21 26 33	20°15'02"	1° 7'	5°D13	10°22'	16°21'	20°22'	18°47'	7°32'	11°27'	9°26'	18°47'	18°43'	29°46'	29°57'	S 4
M 5	21 30 30	21°12'48"	13°16'	5°20'	11°35'	16°59'	20°32'	18°54'	7°35'	11°26'	9°25'	18°46'	18°40'	29°52'	29°57'	M 5
T 6	21 34 26	22°10'35"	25°43'	5°35'	12°49'	17°38'	20°42'	19° 1'	7°39'	11°25'	9°23'	18°43'	18°37'	29°59'	29°56'	T 6
W 7	21 38 23	23° 8'24"	8°31'	5°57'	14° 3'	18°16'	20°51'	19° 8'	7°43'	11°24'	9°22'	18°37'	18°34'	0° 6'	29°55'	W 7
T 8	21 42 19	24° 6'14"	21°43'	6°27'	15°16'	18°55'	21° 1'	19°15'	7°46'	11°23'	9°21'	18°29'	18°31'	0°12'	29°55'	T 8
F 9	21 46 16	25° 4'05"	5°20'	7° 5'	16°30'	19°33'	21°10'	19°22'	7°50'	11°22'	9°19'	18°19'	18°27'	0°19'	29°54'	F 9
S 10	21 50 12	26° 1'58"	19°20'	7°51'	17°44'	20°12'	21°19'	19°29'	7°53'	11°21'	9°18'	18° 7'	18°24'	0°26'	29°53'	S 10
S 11	21 54 9	26°59'52"	3°38'	8°43'	18°57'	20°51'	21°29'	19°36'	7°57'	11°20'	9°17'	17°56'	18°21'	0°32'	29°52'	S 11
M12	21 58 5	27°57'48"	18° 9'	9°43'	20°11'	21°30'	21°38'	19°43'	8° 1'	11°19'	9°16'	17°45'	18°18'	0°39'	29°51'	M12
T 13	22 2 2	28°55'45"	2°45'	10°50'	21°24'	22° 9'	21°47'	19°50'	8° 4'	11°18'	9°14'	17°37'	18°15'	0°45'	29°50'	T 13
W14	22 5 59	29°53'44"	17°21'	12° 3'	22°38'	22°48'	21°55'	19°57'	8° 8'	11°17'	9°13'	17°32'	18°12'	0°52'	29°49'	W14
T 15	22 9 55	0°51'45"	1°49'	13°21'	23°51'	23°27'	22° 4'	20° 4'	8°11'	11°15'	9°12'	17°29'	18° 8'	0°59'	29°48'	T 15
F 16	22 13 52	1°49'48"	16° 8'	14°46'	25° 5'	24° 6'	22°13'	20°12'	8°15'	11°14'	9°11'	17°D29	18° 5'	1° 5'	29°47'	F 16
S 17	22 17 48	2°47'53"	0°13'	16°15'	26°19'	24°46'	22°21'	20°19'	8°18'	11°13'	9° 9'	17°R29	18° 2'	1°12'	29°46'	S 17
S 18	22 21 45	3°46'00"	14° 7'	17°49'	27°32'	25°25'	22°29'	20°26'	8°22'	11°12'	9° 8'	17°29'	17°59'	1°19'	29°44'	S 18
M19	22 25 41	4°44'09"	27°47'	19°27'	28°46'	26° 5'	22°37'	20°33'	8°25'	11°11'	9° 7'	17°27'	17°56'	1°25'	29°43'	M19
T 20	22 29 38	5°42'21"	11°15'	21° 9'	29°59'	26°44'	22°46'	20°41'	8°28'	11° 9'	9° 6'	17°22'	17°52'	1°32'	29°42'	T 20
W21	22 33 34	6°40'34"	24°31'	22°54'	1°13'	27°24'	22°53'	20°48'	8°32'	11° 8'	9° 5'	17°15'	17°49'	1°39'	29°40'	W21
T 22	22 37 31	7°38'49"	7°36'	24°41'	2°26'	28° 4'	23° 1'	20°55'	8°35'	11° 7'	9° 3'	17° 6'	17°46'	1°45'	29°39'	T 22
F 23	22 41 28	8°37'06"	20°29'	26°30'	3°40'	28°44'	23° 9'	21° 2'	8°39'	11° 5'	9° 2'	16°54'	17°43'	1°52'	29°37'	F 23
S 24	22 45 24	9°35'25"	3°22'	28°21'	4°53'	29°24'	23°16'	21°10'	8°42'	11° 4'	9° 1'	16°42'	17°40'	1°59'	29°35'	S 24
S 25	22 49 21	10°33'45"	15°36'	0°14'	6° 7'	0° 4'	23°24'	21°17'	8°45'	11° 3'	9° 0'	16°31'	17°37'	2° 5'	29°34'	S 25
M26	22 53 17	11°32'08"	27°52'	2° 7'	7°20'	0°44'	23°31'	21°25'	8°48'	11° 1'	8°59'	16°20'	17°33'	2°12'	29°32'	M26
T 27	22 57 14	12°30'32"	9°56'	4° 0'	8°34'	1°24'	23°38'	21°32'	8°52'	11° 0'	8°58'	16°12'	17°30'	2°19'	29°30'	T 27
W28	23 1 10	13°28'58"	21°51'	5°54'	9°47'	2° 5'	23°45'	21°39'	8°55'	10°58'	8°57'	16° 7'	17°27'	2°25'	29°29'	W28
T 29	23 5 7	14°27'25"	3°40'	7°48'	11° 0'	2°45'	23°52'	21°47'	8°58'	10°57'	8°56'	16° 4'	17°24'	2°32'	29°27'	T 29
F 30	23 9 3	15°25'55"	15°27'	9°42'	12°14'	3°26'	23°58'	21°54'	9° 1'	10°55'	8°55'	16°D 3	17°21'	2°39'	29°25'	F 30
S 31	23 13 0	16°24'26"	27°15'	11°36'	13°27'	4° 6'	24°15'	22°22'	9° 4'	10°54'	8°54'	16°R 4	17°17'	2°45'	29°23'	S 31

Delta T = 205.09 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1538

geocentric

SEPTEMBER 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 16 57	17 ¹² 22'59	9 ¹⁰ 10	13 ¹² 29	14 ¹² 41	4 ¹² 47	24 ¹² 11	22 ¹² 9	9 ¹² 8	10 ¹² 53	8 ¹² 53	16 ¹² 8	17 ¹² 14	2 ¹² 52	29 ¹² 21	S 1
M 2	23 20 53	18 ¹² 21'33	21 ¹² 17	15 ¹² 21	15 ¹² 54	5 ¹² 28	24 ¹² 17	22 ¹² 16	9 ¹² 11	10 ¹² 51	8 ¹² 52	16 ¹² R 5	17 ¹² 11	2 ¹² 58	29 ¹² 19	M 2
T 3	23 24 50	19 ¹² 20'10	3 ¹² 42	17 ¹² 13	17 ¹² 7	6 ¹² 9	24 ¹² 23	22 ¹² 24	9 ¹² 14	10 ¹² 50	8 ¹² 51	16 ¹² 4	17 ¹² 8	3 ¹² 5	29 ¹² 17	T 3
W 4	23 28 46	20 ¹² 18'48	16 ¹² 30	19 ¹² 4	18 ¹² 21	6 ¹² 50	24 ¹² 29	22 ¹² 31	9 ¹² 17	10 ¹² 48	8 ¹² 50	16 ¹² 0	17 ¹² 5	3 ¹² 12	29 ¹² 15	W 4
T 5	23 32 43	21 ¹² 17'27	29 ¹² 43	20 ¹² 55	19 ¹² 34	7 ¹² 31	24 ¹² 34	22 ¹² 39	9 ¹² 20	10 ¹² 46	8 ¹² 49	15 ¹² 55	17 ¹² 2	3 ¹² 18	29 ¹² 12	T 5
F 6	23 36 39	22 ¹² 16'09	13 ¹² 24	22 ¹² 44	20 ¹² 47	8 ¹² 12	24 ¹² 40	22 ¹² 46	9 ¹² 23	10 ¹² 45	8 ¹² 48	15 ¹² 48	16 ¹² 58	3 ¹² 25	29 ¹² 10	F 6
S 7	23 40 36	23 ¹² 14'52	27 ¹² 33	24 ¹² 32	22 ¹² 0	8 ¹² 53	24 ¹² 45	22 ¹² 54	9 ¹² 26	10 ¹² 43	8 ¹² 47	15 ¹² 40	16 ¹² 55	3 ¹² 32	29 ¹² 8	S 7
S 8	23 44 32	24 ¹² 13'37	12 ¹² 5	26 ¹² 20	23 ¹² 14	9 ¹² 34	24 ¹² 50	23 ¹² 1	9 ¹² 29	10 ¹² 42	8 ¹² 46	15 ¹² 32	16 ¹² 52	3 ¹² 38	29 ¹² 6	S 8
M 9	23 48 29	25 ¹² 12'24	26 ¹² 54	28 ¹² 7	24 ¹² 27	10 ¹² 16	24 ¹² 55	23 ¹² 9	9 ¹² 31	10 ¹² 40	8 ¹² 45	15 ¹² 24	16 ¹² 49	3 ¹² 45	29 ¹² 3	M 9
T 10	23 52 26	26 ¹² 11'12	11 ¹² 53	29 ¹² 52	25 ¹² 40	10 ¹² 57	25 ¹² 0	23 ¹² 16	9 ¹² 34	10 ¹² 39	8 ¹² 44	15 ¹² 19	16 ¹² 46	3 ¹² 52	29 ¹² 1	T 10
W11	23 56 22	27 ¹² 10'03	26 ¹² 51	1 ¹² 37	26 ¹² 53	11 ¹² 39	25 ¹² 5	23 ¹² 23	9 ¹² 37	10 ¹² 37	8 ¹² 44	15 ¹² 15	16 ¹² 43	3 ¹² 58	28 ¹² 59	W11
T 12	0 0 19	28 ¹² 8'57	11 ¹² 8	3 ¹² 21	28 ¹² 6	12 ¹² 20	25 ¹² 9	23 ¹² 31	9 ¹² 40	10 ¹² 35	8 ¹² 43	15 ¹² D14	16 ¹² 39	4 ¹² 5	28 ¹² 56	T 12
F 13	0 4 15	29 ¹² 7'52	26 ¹² 18	5 ¹² 4	29 ¹² 19	13 ¹² 2	25 ¹² 14	23 ¹² 38	9 ¹² 43	10 ¹² 34	8 ¹² 42	15 ¹² 14	16 ¹² 36	4 ¹² 12	28 ¹² 54	F 13
S 14	0 8 12	0 ¹² 6'50	10 ¹² 36	6 ¹² 46	0 ¹² 33	13 ¹² 44	25 ¹² 18	23 ¹² 46	9 ¹² 45	10 ¹² 32	8 ¹² 41	15 ¹² 15	16 ¹² 33	4 ¹² 18	28 ¹² 51	S 14
S 15	0 12 8	1 ¹² 5'50	24 ¹² 34	8 ¹² 27	1 ¹² 46	14 ¹² 26	25 ¹² 22	23 ¹² 53	9 ¹² 48	10 ¹² 30	8 ¹² 41	15 ¹² 16	16 ¹² 30	4 ¹² 25	28 ¹² 49	S 15
M16	0 16 5	2 ¹² 4'53	8 ¹² 13	10 ¹² 7	2 ¹² 59	15 ¹² 8	25 ¹² 25	24 ¹² 1	9 ¹² 50	10 ¹² 29	8 ¹² 40	15 ¹² R16	16 ¹² 27	4 ¹² 32	28 ¹² 46	M16
T 17	0 20 1	3 ¹² 3'58	21 ¹² 32	11 ¹² 47	4 ¹² 12	15 ¹² 50	25 ¹² 29	24 ¹² 8	9 ¹² 53	10 ¹² 27	8 ¹² 39	15 ¹² 15	16 ¹² 23	4 ¹² 38	28 ¹² 44	T 17
W18	0 23 58	4 ¹² 3'05	4 ¹² 35	13 ¹² 25	5 ¹² 25	16 ¹² 32	25 ¹² 32	24 ¹² 15	9 ¹² 56	10 ¹² 25	8 ¹² 39	15 ¹² 11	16 ¹² 20	4 ¹² 45	28 ¹² 41	W18
T 19	0 27 55	5 ¹² 2'15	17 ¹² 23	15 ¹² 3	6 ¹² 38	17 ¹² 14	25 ¹² 36	24 ¹² 23	9 ¹² 58	10 ¹² 24	8 ¹² 38	15 ¹² 6	16 ¹² 17	4 ¹² 52	28 ¹² 38	T 19
F 20	0 31 51	6 ¹² 1'27	29 ¹² 57	16 ¹² 40	7 ¹² 51	17 ¹² 56	25 ¹² 39	24 ¹² 30	10 ¹² 1	10 ¹² 22	8 ¹² 37	14 ¹² 59	16 ¹² 14	4 ¹² 58	28 ¹² 36	F 20
S 21	0 35 48	7 ¹² 0'41	12 ¹² 20	18 ¹² 16	9 ¹² 4	18 ¹² 38	25 ¹² 41	24 ¹² 37	10 ¹² 3	10 ¹² 20	8 ¹² 37	14 ¹² 52	16 ¹² 11	5 ¹² 5	28 ¹² 33	S 21
S 22	0 39 44	7 ¹² 59'57	24 ¹² 33	19 ¹² 51	10 ¹² 17	19 ¹² 21	25 ¹² 44	24 ¹² 45	10 ¹² 5	10 ¹² 19	8 ¹² 36	14 ¹² 45	16 ¹² 8	5 ¹² 11	28 ¹² 30	S 22
M23	0 43 41	8 ¹² 59'15	6 ¹² 36	21 ¹² 26	11 ¹² 30	20 ¹² 3	25 ¹² 46	24 ¹² 52	10 ¹² 8	10 ¹² 17	8 ¹² 36	14 ¹² 39	16 ¹² 4	5 ¹² 18	28 ¹² 27	M23
T 24	0 47 37	9 ¹² 58'35	18 ¹² 32	23 ¹² 0	12 ¹² 43	20 ¹² 46	25 ¹² 49	24 ¹² 59	10 ¹² 10	10 ¹² 15	8 ¹² 35	14 ¹² 35	16 ¹² 1	5 ¹² 25	28 ¹² 25	T 24
W25	0 51 34	10 ¹² 57'58	0 ¹² 23	24 ¹² 33	13 ¹² 56	21 ¹² 28	25 ¹² 51	25 ¹² 7	10 ¹² 12	10 ¹² 14	8 ¹² 35	14 ¹² 32	15 ¹² 58	5 ¹² 31	28 ¹² 22	W25
T 26	0 55 30	11 ¹² 57'22	12 ¹² 9	26 ¹² 5	15 ¹² 9	22 ¹² 11	25 ¹² 53	25 ¹² 14	10 ¹² 14	10 ¹² 12	8 ¹² 34	14 ¹² D31	15 ¹² 55	5 ¹² 38	28 ¹² 19	T 26
F 27	0 59 27	12 ¹² 56'49	23 ¹² 55	27 ¹² 37	16 ¹² 22	22 ¹² 54	25 ¹² 54	25 ¹² 21	10 ¹² 17	10 ¹² 10	8 ¹² 34	14 ¹² 31	15 ¹² 52	5 ¹² 45	28 ¹² 16	F 27
S 28	1 3 23	13 ¹² 56'17	5 ¹² 44	29 ¹² 8	17 ¹² 34	23 ¹² 37	25 ¹² 56	25 ¹² 28	10 ¹² 19	10 ¹² 9	8 ¹² 33	14 ¹² 33	15 ¹² 49	5 ¹² 51	28 ¹² 13	S 28
S 29	1 7 20	14 ¹² 55'47	17 ¹² 39	0 ¹² 39	18 ¹² 47	24 ¹² 20	25 ¹² 57	25 ¹² 36	10 ¹² 21	10 ¹² 7	8 ¹² 33	14 ¹² 35	15 ¹² 45	5 ¹² 58	28 ¹² 10	S 29
M30	1 11 17	15 ¹² 55'19	29 ¹² 46	2 ¹² 8	20 ¹² 0	25 ¹² 3	25 ¹² 58	25 ¹² 43	10 ¹² 23	10 ¹² 5	8 ¹² 33	14 ¹² 36	15 ¹² 42	6 ¹² 5	28 ¹² 7	M30

Delta T = 204.90 sec

Julian Calendar 1 Sept. 1538 == Greg. Calendar 11 Sept. 1538

OCTOBER 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 15 13	16 ¹² 54'53	12 ¹² 8	3 ¹² 37	21 ¹² 13	25 ¹² 46	25 ¹² 59	25 ¹² 50	10 ¹² 25	10 ¹² R 4	8 ¹² R32	14 ¹² R37	15 ¹² 39	6 ¹² 11	28 ¹² R 5	T 1
W 2	1 19 10	17 ¹² 54'29	24 ¹² 51	5 ¹² 5	22 ¹² 26	26 ¹² 29	26 ¹² 0	25 ¹² 57	10 ¹² 27	10 ¹² Y 2	8 ¹² 32	14 ¹² 37	15 ¹² 36	6 ¹² 18	28 ¹² Y 2	W 2
T 3	1 23 6	18 ¹² 54'06	7 ¹² 59	6 ¹² 33	23 ¹² 38	27 ¹² 12	26 ¹² 0	26 ¹² 4	10 ¹² 29	10 ¹² 0	8 ¹² 32	14 ¹² 36	15 ¹² 33	6 ¹² 25	27 ¹² 59	T 3
F 4	1 27 3	19 ¹² 53'45	21 ¹² 33	8 ¹² 0	24 ¹² 51	27 ¹² 55	26 ¹² 0	26 ¹² 11	10 ¹² 31	9 ¹² 59	8 ¹² 31	14 ¹² 33	15 ¹² 29	6 ¹² 31	27 ¹² 56	F 4
S 5	1 30 59	20 ¹² 53'26	5 ¹² 37	9 ¹² 26	26 ¹² 4	28 ¹² 39	26 ¹² R 0	26 ¹² 18	10 ¹² 32	9 ¹² 57	8 ¹² 31	14 ¹² 30	15 ¹² 26	6 ¹² 38	27 ¹² 53	S 5
S 6	1 34 56	21 ¹² 53'08	20 ¹² 7	10 ¹² 51	27 ¹² 16	29 ¹² 22	26 ¹² 0	26 ¹² 25	10 ¹² 34	9 ¹² 55	8 ¹² 31	14 ¹² 27	15 ¹² 23	6 ¹² 45	27 ¹² 50	S 6
M 7	1 38 52	22 ¹² 52'53	5 ¹² Y 0	12 ¹² 15	28 ¹² 29	0 ¹² 6	26 ¹² 0	26 ¹² 32	10 ¹² 36	9 ¹² 54	8 ¹² 31	14 ¹² 24	15 ¹² 20	6 ¹² 51	27 ¹² 47	M 7
T 8	1 42 49	23 ¹² 52'39	20 ¹² 7	13 ¹² 39	29 ¹² 41	0 ¹² 49	26 ¹² 0	26 ¹² 39	10 ¹² 37	9 ¹² 52	8 ¹² 31	14 ¹² 22	15 ¹² 17	6 ¹² 58	27 ¹² 44	T 8
W 9	1 46 46	24 ¹² 52'27	5 ¹² 20	15 ¹² 2	0 ¹² 54	1 ¹² 33	25 ¹² 59	26 ¹² 46	10 ¹² 39	9 ¹² 51	8 ¹² 31	14 ¹² 21	15 ¹² 14	7 ¹² 4	27 ¹² 41	W 9
T 10	1 50 42	25 ¹² 52'17	20 ¹² 29	16 ¹² 23	2 ¹² 6	2 ¹² 17	25 ¹² 58	26 ¹² 53	10 ¹² 41	9 ¹² 49	8 ¹² 30	14 ¹² D21	15 ¹² 10	7 ¹² 11	27 ¹² 38	T 10
F 11	1 54 39	26 ¹² 52'10	5 ¹² 25	17 ¹² 44	3 ¹² 19	3 ¹² 0	25 ¹² 57	27 ¹² 0	10 ¹² 42	9 ¹² 47	8 ¹² 30	14 ¹² 21	15 ¹² 7	7 ¹² 18	27 ¹² 35	F 11
S 12	1 58 35	27 ¹² 52'04	20 ¹² 1	19 ¹² 4	4 ¹² 31	3 ¹² 44	25 ¹² 55	27 ¹² 6	10 ¹² 43	9 ¹² 46	8 ¹² 30	14 ¹² 23	15 ¹² 4	7 ¹² 24	27 ¹² 32	S 12
S 13	2 2 32	28 ¹² 52'01	4 ¹² 13	20 ¹² 23	5 ¹² 44	4 ¹² 28	25 ¹² 54	27 ¹² 13	10 ¹² 45	9 ¹² 44	8 ¹² D30	14 ¹² 24	15 ¹² 1	7 ¹² 31	27 ¹² 29	S 13
M14	2 6 28	29 ¹² 52'01	18 ¹² 0	21 ¹² 40	6 ¹² 56	5 ¹² 12	25 ¹² 52	27 ¹² 20	10 ¹² 46	9 ¹² 43	8 ¹² 30	14 ¹² 25	14 ¹² 58	7 ¹² 38	27 ¹² 26	M14
T 15	2 10 25	0 ¹² 52'02	1 ¹² 22	22 ¹² 56	8 ¹² 8	5 ¹² 56	25 ¹² 50	27 ¹² 26	10 ¹² 48	9 ¹² 41	8 ¹² 30	14 ¹² R25	14 ¹² 55	7 ¹² 44	27 ¹² 23	T 15
W16	2 14 21	1 ¹² 52'05	14 ¹² 21	24 ¹² 11	9 ¹² 21	6 ¹² 40	25 ¹² 48	27 ¹² 33	10 ¹² 49	9 ¹² 40	8 ¹² 30	14 ¹² 25	14 ¹² 51	7 ¹² 51	27 ¹² 20	W16
T 17	2 18 18	2 ¹² 52'11	27 ¹² 1	25 ¹² 24	10 ¹² 33	7 ¹² 25	25 ¹² 46	27 ¹² 40	10 ¹² 50	9 ¹² 38	8 ¹² 31	14 ¹² 24	14 ¹² 48	7 ¹² 58	27 ¹² 17	T 17
F 18	2 22 15	3 ¹² 52'18	9 ¹² 25	26 ¹² 35	11 ¹² 45	8 ¹² 9	25 ¹² 43	27 ¹² 46	10 ¹² 51	9 ¹² 37	8 ¹² 31	14 ¹² 22	14 ¹² 45	8 ¹² 4	27 ¹² 14	F 18
S 19	2 26 11	4 ¹² 52'28	21 ¹² 36	27 ¹² 44	12 ¹² 57	8 ¹² 53	25 ¹² 41	27 ¹² 53	10 ¹² 52	9 ¹² 35	8 ¹² 31	14 ¹² 21	14 ¹² 42	8 ¹² 11	27 ¹² 11	S 19
S 20	2 30 8	5 ¹² 52'40	3 ¹² 37	28 ¹² 51	14 ¹² 9	9 ¹² 38	25 ¹² 38	27 ¹² 59	10 ¹² 53	9 ¹² 34	8 ¹² 31	14 ¹² 20	14 ¹² 39	8 ¹² 18	27 ¹² 8	S 20
M21	2 34 4	6 ¹² 52'53	15 ¹² 31	29 ¹² 56	15 ¹² 22	10 ¹² 22	25 ¹² 35	28 ¹² 5	10 ¹² 54	9 ¹² 32	8 ¹² 31	14 ¹² 19	14 ¹² 35	8 ¹² 24	27 ¹² 5	M21
T 22	2 38 1	7 ¹² 53'09	27 ¹² 20	0 ¹² 57	16 ¹² 34	11 ¹² 7	25 ¹² 31	28 ¹² 12	10 ¹² 55	9 ¹² 31	8 ¹² 31	14 ¹² 18	14 ¹² 32	8 ¹² 31	27 ¹² 2	T 22
W23	2 41 57	8 ¹² 53'26	9 ¹² 18	1 ¹² 56	17 ¹² 46	11 ¹² 51	25 ¹² 28	28 ¹² 18	10 ¹² 56	9 ¹² 29	8 ¹² 32	14 ¹² D18	14 ¹² 29	8 ¹² 37	26 ¹² 59	W23
T 24	2 45 54	9 ¹² 53'46	20 ¹² 55	2 ¹² 51	18 ¹² 58	12 ¹² 36	25 ¹² 24	28 ¹² 24	10 ¹² 57	9 ¹² 28	8 ¹² 32	14 ¹² 18	14 ¹² 26	8 ¹² 44	26 ¹² 56	T 24
F 25	2 49 50	10 ¹² 54'07	2 ¹² 44	3 ¹² 43	20 ¹² 10	13 ¹² 20	25 ¹² 20	28 ¹² 30	10 ¹² 58	9 ¹² 27	8 ¹² 32	14 ¹² 18	14 ¹² 23	8 ¹² 51	26 ¹² 53	F 25
S 26	2 53 47	11 ¹² 54'29	14 ¹² 38	4 ¹² 30	21 ¹² 21	14 ¹² 5	25 ¹² 16	28 ¹² 37	10 ¹² 58	9 ¹² 25	8 ¹² 33	14 ¹² 18	14 ¹² 20	8 ¹² 57	26 ¹² 50	S 26
S 27	2 57 44	12 ¹² 54'54	26 ¹² 39	5 ¹² 12	22 ¹² 33	14 ¹² 50	25 ¹² 12	28 ¹² 43	10 ¹² 59	9 ¹² 24	8 ¹² 33	14 ¹² 18	14 ¹² 16	9 ¹² 4	26 ¹² 47	S 27
M28	3 1 40	13 ¹² 55'19	8 ¹² 50	5 ¹² 48	23 ¹² 45	15 ¹² 35	25 ¹² 8	28 ¹² 49	10 ¹² 59	9 ¹² 23	8 ¹² 33	14 ¹² R19	14 ¹² 13	9 ¹² 11	26 ¹² 45	M28
T 29	3 5 37	14 ¹² 55'47	21 ¹² 15	6 ¹² 19	24 ¹² 57	16 ¹² 20	25 ¹² 3	28 ¹² 55	11 ¹² 0	9 ¹² 21	8 ¹² 34	14 ¹² 18	14 ¹² 10	9 ¹² 17	26 ¹² 42	T 29
W30	3 9 33	15 ¹² 56'15	3 ¹² 56	6 ¹² 42	26 ¹² 9	17 ¹² 5	24 ¹² 58	29 ¹² 0	11 ¹² 0	9 ¹² 20	8 ¹² 34	14 ¹² 18	14 ¹² 7	9 ¹² 24	26 ¹² 39	W30
T 31	3 13 30	16 ¹² 56'45	16 ¹² 58	6 ¹² 59	27 ¹² 20	17 ¹² 50	24 ¹² 53	29 ¹² 20	11 ¹² 1	9 ¹² Y19	8 ¹² 35	14 ¹² D18	14 ¹² 8	9 ¹² 13	26 ¹² Y36	T 31

ASTRODIENST EPHEMERIS for the year 1538
geocentric

NOVEMBER 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	3 17 26	17 ¹¹ 57'16	0 ¹¹ 23	7 ¹⁰ 6	28 ²⁸ 32	18 ¹⁸ 35	24 ²⁴ R48	29 ²⁹ 12	11 ¹¹ 1	9 ⁹ R18	8 ⁸ 35	14 ¹⁴ B18	14 ¹⁴ B 0	9 ⁹ M37	26 ²⁶ R33	F 1
S 2	3 21 23	18 ¹⁸ 57'48	14 ¹⁴ 13	7 ⁷ 5	29 ²⁹ 43	19 ¹⁹ 20	24 ²⁴ II43	29 ²⁹ 18	11 ¹¹ 2	9 ⁹ Y16	8 ⁸ 36	14 ¹⁴ 19	13 ¹³ 57	9 ⁹ 44	26 ²⁶ Y31	S 2
S 3	3 25 19	19 ¹⁹ 58'22	28 ²⁸ 29	6 ⁶ 54	0 ⁰ 55	20 ²⁰ 6	24 ²⁴ 37	29 ²⁹ 23	11 ¹¹ 2	9 ⁹ 15	8 ⁸ 36	14 ¹⁴ 19	13 ¹³ 54	9 ⁹ 51	26 ²⁶ 28	S 3
M 4	3 29 16	20 ²⁰ 58'57	13 ¹³ Y 8	6 ⁶ 33	2 ² 6	20 ²⁰ 51	24 ²⁴ 32	29 ²⁹ 29	11 ¹¹ 2	9 ⁹ 14	8 ⁸ 37	14 ¹⁴ 20	13 ¹³ 51	9 ⁹ 57	26 ²⁶ 25	M 4
T 5	3 33 13	21 ²¹ 59'33	28 ²⁸ 6	6 ⁶ 1	3 ³ 17	21 ²¹ 36	24 ²⁴ 26	29 ²⁹ 34	11 ¹¹ 2	9 ⁹ 13	8 ⁸ 38	14 ¹⁴ 20	13 ¹³ 48	10 ¹⁰ 4	26 ²⁶ 23	T 5
W 6	3 37 9	23 ²³ 0'10	13 ¹³ B16	5 ⁵ 19	4 ⁴ 28	22 ²² 22	24 ²⁴ 20	29 ²⁹ 40	11 ¹¹ 2	9 ⁹ 12	8 ⁸ 38	14 ¹⁴ R21	13 ¹³ 45	10 ¹⁰ 11	26 ²⁶ 20	W 6
T 7	3 41 6	24 ²⁴ 0'49	28 ²⁸ 28	4 ⁴ 26	5 ⁵ 40	23 ²³ 7	24 ²⁴ 14	29 ²⁹ 45	11 ¹¹ R 2	9 ⁹ 11	8 ⁸ 39	14 ¹⁴ 20	13 ¹³ 41	10 ¹⁰ 17	26 ²⁶ 17	T 7
F 8	3 45 2	25 ²⁵ 1'30	13 ¹³ II34	3 ³ 24	6 ⁶ 51	23 ²³ 53	24 ²⁴ 8	29 ²⁹ 50	11 ¹¹ 2	9 ⁹ 10	8 ⁸ 40	14 ¹⁴ 20	13 ¹³ 38	10 ¹⁰ 24	26 ²⁶ 15	F 8
S 9	3 48 59	26 ²⁶ 2'12	28 ²⁸ 23	2 ² 14	8 ⁸ 2	24 ²⁴ 38	24 ²⁴ 2	29 ²⁹ 56	11 ¹¹ 2	9 ⁹ 9	8 ⁸ 40	14 ¹⁴ 18	13 ¹³ 35	10 ¹⁰ 30	26 ²⁶ 12	S 9
S 10	3 52 55	27 ²⁷ 2'55	12 ¹² 549	0 ⁰ 57	9 ⁹ 12	25 ²⁵ 24	23 ²³ 55	0 ⁰ 1	11 ¹¹ 2	9 ⁹ 8	8 ⁸ 41	14 ¹⁴ 17	13 ¹³ 32	10 ¹⁰ 37	26 ²⁶ 10	S 10
M 11	3 56 52	28 ²⁸ 3'40	26 ²⁶ 49	29 ²⁹ M36	10 ¹⁰ 23	26 ²⁶ 9	23 ²³ 49	0 ⁰ 6	11 ¹¹ 2	9 ⁹ 7	8 ⁸ 42	14 ¹⁴ 15	13 ¹³ 29	10 ¹⁰ 44	26 ²⁶ 7	M 11
T 12	4 0 48	29 ²⁹ 4'27	10 ¹⁰ 20	28 ²⁸ 14	11 ¹¹ 34	26 ²⁶ 55	23 ²³ 42	0 ⁰ 11	11 ¹¹ 2	9 ⁹ 6	8 ⁸ 43	14 ¹⁴ 14	13 ¹³ 26	10 ¹⁰ 50	26 ²⁶ 5	T 12
W 13	4 4 45	0 ⁰ 5'15	23 ²³ 25	26 ²⁶ 52	12 ¹² 45	27 ²⁷ 41	23 ²³ 35	0 ⁰ 16	11 ¹¹ 1	9 ⁹ 5	8 ⁸ 44	14 ¹⁴ 13	13 ¹³ 22	10 ¹⁰ 57	26 ²⁶ 3	W 13
T 14	4 8 42	1 ¹ 6'04	6 ⁶ M 6	25 ²⁵ 35	13 ¹³ 55	28 ²⁸ 27	23 ²³ 28	0 ⁰ 21	11 ¹¹ 1	9 ⁹ 4	8 ⁸ 44	14 ¹⁴ D13	13 ¹³ 19	11 ¹¹ 4	26 ²⁶ 0	T 14
F 15	4 12 38	2 ² 6'55	18 ¹⁸ 27	24 ²⁴ 25	15 ¹⁵ 6	29 ²⁹ 13	23 ²³ 21	0 ⁰ 25	11 ¹¹ 1	9 ⁹ 3	8 ⁸ 45	14 ¹⁴ 14	13 ¹³ 16	11 ¹¹ 10	25 ²⁵ 58	F 15
S 16	4 16 35	3 ³ 7'47	0 ⁰ 133	23 ²³ 22	16 ¹⁶ 16	29 ²⁹ 59	23 ²³ 14	0 ⁰ 30	11 ¹¹ 0	9 ⁹ 2	8 ⁸ 46	14 ¹⁴ 15	13 ¹³ 13	11 ¹¹ 17	25 ²⁵ 56	S 16
S 17	4 20 31	4 ⁴ 8'41	12 ¹² 28	22 ²² 30	17 ¹⁷ 26	0 ⁰ 345	23 ²³ 6	0 ⁰ 35	11 ¹¹ 0	9 ⁹ 1	8 ⁸ 47	14 ¹⁴ 17	13 ¹³ 10	11 ¹¹ 24	25 ²⁵ 54	S 17
M 18	4 24 28	5 ⁵ 9'36	24 ²⁴ 17	21 ²¹ 49	18 ¹⁸ 36	1 ¹ 31	22 ²² 59	0 ⁰ 39	10 ¹⁰ 59	9 ⁹ 1	8 ⁸ 48	14 ¹⁴ 18	13 ¹³ 6	11 ¹¹ 30	25 ²⁵ 51	M 18
T 19	4 28 24	6 ⁶ 10'32	6 ⁶ M 3	21 ²¹ 19	19 ¹⁹ 47	2 ² 17	22 ²² 52	0 ⁰ 44	10 ¹⁰ 58	9 ⁹ 0	8 ⁸ 49	14 ¹⁴ 19	13 ¹³ 3	11 ¹¹ 37	25 ²⁵ 49	T 19
W 20	4 32 21	7 ⁷ 11'30	17 ¹⁷ 51	21 ²¹ 1	20 ²⁰ 57	3 ³ 3	22 ²² 44	0 ⁰ 48	10 ¹⁰ 58	8 ⁸ 59	8 ⁸ 50	14 ¹⁴ R19	13 ¹³ 0	11 ¹¹ 44	25 ²⁵ 47	W 20
T 21	4 36 17	8 ⁸ 12'29	29 ²⁹ 41	20 ²⁰ D54	22 ²² 6	3 ³ 49	22 ²² 36	0 ⁰ 52	10 ¹⁰ 57	8 ⁸ 58	8 ⁸ 51	14 ¹⁴ 18	12 ¹² 57	11 ¹¹ 50	25 ²⁵ 45	T 21
F 22	4 40 14	9 ⁹ 13'28	11 ¹¹ 38	20 ²⁰ 57	23 ²³ 16	4 ⁴ 35	22 ²² 29	0 ⁰ 57	10 ¹⁰ 56	8 ⁸ 58	8 ⁸ 52	14 ¹⁴ 16	12 ¹² 54	11 ¹¹ 57	25 ²⁵ 43	F 22
S 23	4 44 11	10 ¹⁰ 14'29	23 ²³ 42	21 ²¹ 10	24 ²⁴ 26	5 ⁵ 21	22 ²² 21	1 ¹ 1	10 ¹⁰ 55	8 ⁸ 57	8 ⁸ 53	14 ¹⁴ 13	12 ¹² 51	12 ¹² 3	25 ²⁵ 41	S 23
S 24	4 48 7	11 ¹¹ 15'31	5 ⁵ 356	21 ²¹ 32	25 ²⁵ 35	6 ⁶ 8	22 ²² 13	1 ¹ 5	10 ¹⁰ 54	8 ⁸ 57	8 ⁸ 54	14 ¹⁴ 8	12 ¹² 47	12 ¹² 10	25 ²⁵ 39	S 24
M 25	4 52 4	12 ¹² 16'33	18 ¹⁸ 19	22 ²² 2	26 ²⁶ 45	6 ⁶ 54	22 ²² 5	1 ¹ 9	10 ¹⁰ 54	8 ⁸ 56	8 ⁸ 55	14 ¹⁴ 3	12 ¹² 44	12 ¹² 17	25 ²⁵ 38	M 25
T 26	4 56 0	13 ¹³ 17'36	0 ⁰ 555	22 ²² 40	27 ²⁷ 54	7 ⁷ 41	21 ²¹ 57	1 ¹ 13	10 ¹⁰ 53	8 ⁸ 55	8 ⁸ 57	13 ¹³ 58	12 ¹² 41	12 ¹² 23	25 ²⁵ 36	T 26
W 27	4 59 57	14 ¹⁴ 18'39	13 ¹³ 44	23 ²³ 23	29 ²⁹ 3	8 ⁸ 27	21 ²¹ 49	1 ¹ 16	10 ¹⁰ 51	8 ⁸ 55	8 ⁸ 58	13 ¹³ 54	12 ¹² 38	12 ¹² 30	25 ²⁵ 34	W 27
T 28	5 3 53	15 ¹⁵ 19'43	26 ²⁶ 48	24 ²⁴ 13	0 ⁰ 12	9 ⁹ 13	21 ²¹ 41	1 ¹ 20	10 ¹⁰ 50	8 ⁸ 55	8 ⁸ 59	13 ¹³ 51	12 ¹² 35	12 ¹² 37	25 ²⁵ 32	T 28
F 29	5 7 50	16 ¹⁶ 20'48	10 ¹⁰ 10	25 ²⁵ 8	1 ¹ 21	10 ¹⁰ 0	21 ²¹ 33	1 ¹ 24	10 ¹⁰ 49	8 ⁸ 54	9 ⁹ 0	13 ¹³ D50	12 ¹² 32	12 ¹² 43	25 ²⁵ 31	F 29
S 30	5 11 47	17 ¹⁷ 21'52	23 ²³ 49	26 ²⁶ M 7	2 ² 30	10 ¹⁰ 347	21 ²¹ II25	1 ¹ 27	10 ¹⁰ 48	8 ⁸ Y54	9 ⁹ 1	13 ¹³ B50	12 ¹² B28	12 ¹² M50	25 ²⁵ Y29	S 30

Delta T = 204.53 sec

Julian Calendar 1 Nov. 1538 == Greg. Calendar 11 Nov. 1538

DECEMBER 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 15 43	18 ¹⁸ 22'57	7 ⁷ Y49	27 ²⁷ M 9	3 ³ 38	11 ¹¹ 333	21 ²¹ R17	1 ¹ 30	10 ¹⁰ R47	8 ⁸ R53	9 ⁹ 3	13 ¹³ B51	12 ¹² B25	12 ¹² M57	25 ²⁵ R28	S 1
M 2	5 19 40	19 ¹⁹ 24'03	22 ²² 7	28 ²⁸ 16	4 ⁴ 46	12 ¹² 20	21 ²¹ II 8	1 ¹ 34	10 ¹⁰ 45	8 ⁸ Y53	9 ⁹ 4	13 ¹³ 52	12 ¹² 22	13 ¹³ 3	25 ²⁵ Y26	M 2
T 3	5 23 36	20 ²⁰ 25'09	6 ⁶ B43	29 ²⁹ 25	5 ⁵ 54	13 ¹³ 6	21 ²¹ 0	1 ¹ 37	10 ¹⁰ 44	8 ⁸ 53	9 ⁹ 5	13 ¹³ R53	12 ¹² 19	13 ¹³ 10	25 ²⁵ 25	T 3
W 4	5 27 33	21 ²¹ 26'15	21 ²¹ 33	0 ⁰ 37	7 ⁷ 2	13 ¹³ 53	20 ²⁰ 52	1 ¹ 40	10 ¹⁰ 43	8 ⁸ 53	9 ⁹ 6	13 ¹³ 53	12 ¹² 16	13 ¹³ 17	25 ²⁵ 23	W 4
T 5	5 31 29	22 ²² 27'21	6 ⁶ II30	1 ¹ 51	8 ⁸ 10	14 ¹⁴ 40	20 ²⁰ 44	1 ¹ 43	10 ¹⁰ 41	8 ⁸ 52	9 ⁹ 8	13 ¹³ 51	12 ¹² 12	13 ¹³ 23	25 ²⁵ 22	T 5
F 6	5 35 26	23 ²³ 28'28	21 ²¹ 26	3 ³ 7	9 ⁹ 18	15 ¹⁵ 27	20 ²⁰ 36	1 ¹ 46	10 ¹⁰ 40	8 ⁸ 52	9 ⁹ 9	13 ¹³ 48	12 ¹² 9	13 ¹³ 30	25 ²⁵ 21	F 6
S 7	5 39 22	24 ²⁴ 29'36	6 ⁶ 213	4 ⁴ 25	10 ¹⁰ 25	16 ¹⁶ 13	20 ²⁰ 28	1 ¹ 49	10 ¹⁰ 38	8 ⁸ 52	9 ⁹ 10	13 ¹³ 42	12 ¹² 6	13 ¹³ 37	25 ²⁵ 20	S 7
S 8	5 43 19	25 ²⁵ 30'43	20 ²⁰ 43	5 ⁵ 44	11 ¹¹ 32	17 ¹⁷ 0	20 ²⁰ 20	1 ¹ 52	10 ¹⁰ 37	8 ⁸ 52	9 ⁹ 12	13 ¹³ 35	12 ¹² 3	13 ¹³ 43	25 ²⁵ 18	S 8
M 9	5 47 16	26 ²⁶ 31'52	4 ⁴ 249	7 ⁷ 5	12 ¹² 39	17 ¹⁷ 47	20 ²⁰ 11	1 ¹ 54	10 ¹⁰ 35	8 ⁸ 52	9 ⁹ 13	13 ¹³ 28	12 ¹² 0	13 ¹³ 50	25 ²⁵ 17	M 9
T 10	5 51 12	27 ²⁷ 33'00	18 ¹⁸ 29	8 ⁸ 27	13 ¹³ 46	18 ¹⁸ 34	20 ²⁰ 3	1 ¹ 57	10 ¹⁰ 33	8 ⁸ 52	9 ⁹ 15	13 ¹³ 21	11 ¹¹ 57	13 ¹³ 56	25 ²⁵ 16	T 10
W 11	5 55 9	28 ²⁸ 34'10	1 ¹ M 41	9 ⁹ 50	14 ¹⁴ 53	19 ¹⁹ 21	19 ¹⁹ 55	1 ¹ 59	10 ¹⁰ 32	8 ⁸ D52	9 ⁹ 16	13 ¹³ 16	11 ¹¹ 53	14 ¹⁴ 3	25 ²⁵ 15	W 11
T 12	5 59 5	29 ²⁹ 35'19	14 ¹⁴ 27	11 ¹¹ 14	15 ¹⁵ 59	20 ²⁰ 8	19 ¹⁹ 48	2 ² 1	10 ¹⁰ 30	8 ⁸ 52	9 ⁹ 17	13 ¹³ 13	11 ¹¹ 50	14 ¹⁴ 10	25 ²⁵ 14	T 12
F 13	6 3 2	0 ⁰ 36'29	26 ²⁶ 51	12 ¹² 39	17 ¹⁷ 5	20 ²⁰ 55	19 ¹⁹ 40	2 ² 4	10 ¹⁰ 28	8 ⁸ 52	9 ⁹ 19	13 ¹³ D12	11 ¹¹ 47	14 ¹⁴ 16	25 ²⁵ 14	F 13
S 14	6 6 58	1 ¹ 37'40	8 ⁸ 158	14 ¹⁴ 5	18 ¹⁸ 11	21 ²¹ 42	19 ¹⁹ 32	2 ² 6	10 ¹⁰ 26	8 ⁸ 52	9 ⁹ 20	13 ¹³ 12	11 ¹¹ 44	14 ¹⁴ 23	25 ²⁵ 13	S 14
S 15	6 10 55	2 ² 38'51	20 ²⁰ 52	15 ¹⁵ 31	19 ¹⁹ 17	22 ²² 29	19 ¹⁹ 24	2 ² 8	10 ¹⁰ 24	8 ⁸ 52	9 ⁹ 22	13 ¹³ 13	11 ¹¹ 41	14 ¹⁴ 30	25 ²⁵ 12	S 15
M 16	6 14 51	3 ³ 40'02	2 ² M 40	16 ¹⁶ 58	20 ²⁰ 22	23 ²³ 16	19 ¹⁹ 16	2 ² 10	10 ¹⁰ 23	8 ⁸ 52	9 ⁹ 23	13 ¹³ 14	11 ¹¹ 38	14 ¹⁴ 36	25 ²⁵ 11	M 16
T 17	6 18 48	4 ⁴ 41'14	14 ¹⁴ 26	18 ¹⁸ 26	21 ²¹ 27	24 ²⁴ 3	19 ¹⁹ 9	2 ² 11	10 ¹⁰ 21	8 ⁸ 52	9 ⁹ 25	13 ¹³ R15	11 ¹¹ 34	14 ¹⁴ 43	25 ²⁵ 11	T 17
W 18	6 22 45	5 ⁵ 42'26	26 ²⁶ 15	19 ¹⁹ 54	22 ²² 32	24 ²⁴ 50	19 ¹⁹ 1	2 ² 13	10 ¹⁰ 19	8 ⁸ 53	9 ⁹ 27	13 ¹³ 14	11 ¹¹ 31	14 ¹⁴ 50	25 ²⁵ 10	W 18
T 19	6 26 41	6 ⁶ 43'38	8 ⁸ 11	21 ²¹ 23	23 ²³ 36	25 ²⁵ 37	18 ¹⁸ 54	2 ² 15	10 ¹⁰ 17	8 ⁸ 53	9 ⁹ 28	13 ¹³ 10	11 ¹¹ 28	14 ¹⁴ 56	25 ²⁵ 10	T 19
F 20	6 30 38	7 ⁷ 44'50	20 ²⁰ 16	22 ²² 52	24 ²⁴ 41	26 ²⁶ 24	18 ¹⁸ 46	2 ² 16	10 ¹⁰ 15	8 ⁸ 53	9 ⁹ 30	13 ¹³ 4	11 ¹¹ 25	15 ¹⁵ 3	25 ²⁵ 9	F 20
S 21	6 34 34	8 ⁸ 46'02	2 ² B 33	24 ²⁴ 22	25 ²⁵ 45	27 ²⁷ 12	18 ¹⁸ 39	2 ² 17	10 ¹⁰ 12	8 ⁸ 54	9 ⁹ 31	12 ¹² 56	11 ¹¹ 22	15 ¹⁵ 10	25 ²⁵ 9	S 21
S 22	6 38 31	9 ⁹ 47'14	15 ¹⁵ 3	25 ²⁵ 52	26 ²⁶ 48	27 ²⁷ 59	18 ¹⁸ 32	2 ² 19	10 ¹⁰ 10	8 ⁸ 54	9 ⁹ 33	12 ¹² 46	11 ¹¹ 18	15 ¹⁵ 16	25 ²⁵ 9	S 22
M 23	6 42 27	10 ¹⁰ 48'26	27 ²⁷ 46	27 ²⁷ 23	27 ²⁷ 52	28 ²⁸ 46	18 ¹⁸ 25	2 ² 20	10 ¹⁰ 8	8 ⁸ 54	9 ⁹ 35	12 ¹² 35	11 ¹¹ 15	15 ¹⁵ 23	25 ²⁵ 9	M 23
T 24	6 46 24	11 ¹¹ 49'37	10 ¹⁰ 441	28 ²⁸ 54	28 ²⁸ 54	29 ²⁹ 33	18 ¹⁸ 18	2 ² 21	10 ¹⁰ 6	8 ⁸ 55	9 ⁹ 36	12 ¹² 24	11 ¹¹ 12	15 ¹⁵ 30	25 ²⁵ 8	T 24
W 25	6 50 21	12 ¹² 50'48	23 ²³ 49	0 ⁰ 26	29 ²⁹ 57	0 ⁰ 220	18 ¹⁸ 11	2 ² 22	10 ¹⁰ 4	8 ⁸ 55	9 ⁹ 38	12 ¹² 14	11 ¹¹ 9	15 ¹⁵ 36	25 ²⁵ 8	W 25
T 26	6 54 17	13 ¹³ 51'59	7 ⁷ X 8	1 ¹ 58	0 ⁰ X 59	1 ¹ 8	18 ¹⁸ 5	2 ² 23	10 ¹⁰ 2	8 ⁸ 56	9 ⁹ 39	12 ¹² 6	11 ¹¹ 6	15 ¹⁵ 43	25 ²⁵ D 8	T 26
F 27	6 58 14	14 ¹⁴ 53'08	20 ²⁰ 38	3 ³ 30	2 ² 1	1 ¹ 55	17 ¹⁷ 58	2 ² 23	9 ⁹ 59	8 ⁸ 56	9 ⁹ 41	12 ¹² 1	11 ¹¹ 3	15 ¹⁵ 49	25 ²⁵ 8	F 27
S 28	7 2 10	15 ¹⁵ 54'18	4 ⁴ Y 19	5 ⁵ 3	3 ³ 3	2 ² 42	17 ¹⁷ 52	2 ² 24	9 ⁹ 57	8 ⁸ 57	9 ⁹ 43	11 ¹¹ 58	10 ¹⁰ 59	15 ¹⁵ 56	25 ²⁵ 8	S 28
S 29	7 6 7	16 ¹⁶ 55'26	18 ¹⁸ 12	6 ⁶ 37	4 ⁴ 0	3 ³ 30	17 ¹⁷ 45	2 ² 25	9 ⁹ 55	8 ⁸ 57	9 ⁹ 44	11 ¹¹ D57	10 ¹⁰ 56	16 ¹⁶ 3	25 ²⁵ 8	S 29
M 30	7 10 3	17 ¹⁷ 56'34	2 ² B 15	8 ⁸ 11	5 ⁵ 4	4 ⁴ 17	17 ¹⁷ 39	2 ² 25	9 ⁹ 52	8 ⁸ 58	9 ⁹ 46	11 ¹¹ 58	10 ¹⁰ 53	16 ¹⁶ 9	25 ²⁵ 9	M 30
T 31	7 14 0	18 ¹⁸ 57'41	16 ¹⁶ B 30	9 ⁹ B 45	6 ⁶ X 4	5 ⁵ 44	17 ¹⁷ II 33	2 ² 25	9 ⁹ 50	8 ⁸ Y 59	9 ⁹ 48	11 ¹¹ R58	10 ¹⁰ B 50	16 ¹⁶ M 16	25 ²⁵ Y 9	T 31