



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 D5EPX

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 Δ51	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 η 1	11 ³ 0	19 ³ η31	4 ³ Ω51	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 ³ 857	6 ³ 11	21 ³ 1	F 4
S 5	7 34 40	24 ³ 17'58	14 ³ ≈ 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 ³ 850	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 Δ54	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 η21	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 ³ 858	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 Δ23	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 η55	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 Δ11	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 ≈ 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 Δ41	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 ≈20	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 ≈58	19 ³ ≈ 7	22 ³ ≈34	28 ³ Δ55	12 ³ 59	18 ³ η11	3 ³ Δ36	7 ³ Y25	9 ³ ≈14	28 ³ 848	28 ³ 831	9 ³ Δ12	21 ³ Y43	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1538

geocentric

FEBRUARY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	9 21 7	21 ⁴⁰ 29	8 ⁴⁹ 49	20 ⁵⁵ 55	23 ⁴⁸ 48	28 ³² 32	13 ⁵ 5	18 ⁷ 7	3 ³⁴ 34	7 ²⁶ 26	9 ¹⁶ 16	28 ³⁶ 36	28 ²⁸ 28	9 ¹⁸ 18	21 ⁴⁵ 45	F 1
S 2	9 25 3	22 ⁴¹ 02	23 ⁴³ 43	22 ⁴⁴ 44	25 ³ 3	28 ⁹ 9	13 ¹² 12	18 ³ 3	3 ³¹ 31	7 ²⁸ 28	9 ¹⁸ 18	28 ²⁵ 25	28 ²⁵ 25	9 ²⁵ 25	21 ⁴⁷ 47	S 2
S 3	9 29 0	23 ⁴¹ 33	8 ³² 32	24 ³³ 33	26 ¹⁷ 17	27 ⁴⁵ 45	13 ¹⁹ 19	17 ⁵⁹ 59	3 ²⁹ 29	7 ³⁰ 30	9 ²⁰ 20	28 ¹⁷ 17	28 ²² 22	9 ³² 32	21 ⁵⁰ 50	S 3
M 4	9 32 56	24 ⁴² 03	23 ⁹ 9	26 ²⁴ 24	27 ³¹ 31	27 ²¹ 21	13 ²⁷ 27	17 ⁵⁵ 55	3 ²⁷ 27	7 ³² 32	9 ²² 22	28 ¹² 12	28 ¹⁸ 18	9 ³⁸ 38	21 ⁵² 52	M 4
T 5	9 36 53	25 ⁴² 30	7 ²⁹ 29	28 ¹⁵ 15	28 ⁴⁵ 45	26 ⁵⁸ 58	13 ³⁴ 34	17 ⁵¹ 51	3 ²⁴ 24	7 ³³ 33	9 ²³ 23	28 ¹⁰ 10	28 ¹⁵ 15	9 ⁴⁵ 45	21 ⁵⁵ 55	T 5
W 6	9 40 50	26 ⁴² 56	21 ³⁰ 30	0 ⁷ 7	29 ⁵⁹ 59	26 ³⁴ 34	13 ⁴¹ 41	17 ⁴⁷ 47	3 ²² 22	7 ³⁵ 35	9 ²⁵ 25	28 ⁹ 9	28 ¹² 12	9 ⁵² 52	21 ⁵⁷ 57	W 6
T 7	9 44 46	27 ⁴³ 20	5 ¹² 12	2 ⁰ 0	1 ¹³ 13	26 ¹⁰ 10	13 ⁴⁹ 49	17 ⁴³ 43	3 ²⁰ 20	7 ³⁷ 37	9 ²⁷ 27	28 ⁹ 9	28 ⁹ 9	9 ⁵⁸ 58	22 ⁰ 0	T 7
F 8	9 48 43	28 ⁴³ 41	18 ³⁷ 37	3 ⁵³ 53	2 ²⁷ 27	25 ⁴⁶ 46	13 ⁵⁷ 57	17 ³⁸ 38	3 ¹⁷ 17	7 ³⁹ 39	9 ²⁹ 29	28 ⁸ 8	28 ⁶ 6	10 ⁵ 5	22 ² 2	F 8
S 9	9 52 39	29 ⁴⁴ 01	1 ⁴⁶ 46	5 ⁴⁶ 46	3 ⁴² 42	25 ²² 22	14 ⁵ 5	17 ³⁴ 34	3 ¹⁵ 15	7 ⁴¹ 41	9 ³⁰ 30	28 ⁵ 5	28 ² 2	10 ¹² 12	22 ⁵ 5	S 9
S 10	9 56 36	0 ⁴⁴ 19	14 ⁴² 42	7 ⁴⁰ 40	4 ⁵⁶ 56	24 ⁵⁹ 59	14 ¹³ 13	17 ²⁹ 29	3 ¹³ 13	7 ⁴³ 43	9 ³² 32	28 ⁰ 0	27 ⁵⁹ 59	10 ¹⁸ 18	22 ⁸ 8	S 10
M 11	10 0 32	1 ⁴⁴ 35	27 ²⁷ 27	9 ³⁴ 34	6 ¹⁰ 10	24 ³⁵ 35	14 ²¹ 21	17 ²⁵ 25	3 ¹⁰ 10	7 ⁴⁵ 45	9 ³⁴ 34	27 ⁵¹ 51	27 ⁵⁶ 56	10 ²⁵ 25	22 ¹⁰ 10	M 11
T 12	10 4 29	2 ⁴⁴ 49	10 ⁹ 9	11 ²⁸ 28	7 ²⁴ 24	24 ¹² 12	14 ³⁰ 30	17 ²⁰ 20	3 ⁸ 8	7 ⁴⁷ 47	9 ³⁵ 35	27 ⁴⁰ 40	27 ⁵³ 53	10 ³² 32	22 ¹³ 13	T 12
W 13	10 8 25	3 ⁴⁵ 00	22 ²⁶ 26	13 ²² 22	8 ³⁸ 38	23 ⁴⁹ 49	14 ³⁸ 38	17 ¹⁶ 16	3 ⁶ 6	7 ⁴⁸ 48	9 ³⁷ 37	27 ²⁶ 26	27 ⁵⁰ 50	10 ³⁹ 39	22 ¹⁶ 16	W 13
T 14	10 12 22	4 ⁴⁵ 10	4 ¹² 12	15 ¹⁵ 15	9 ⁵² 52	23 ²⁶ 26	14 ⁴⁷ 47	17 ¹¹ 11	3 ⁴ 4	7 ⁵⁰ 50	9 ³⁹ 39	27 ¹² 12	27 ⁴⁷ 47	10 ⁴⁵ 45	22 ¹⁹ 19	T 14
F 15	10 16 19	5 ⁴⁵ 19	16 ⁴⁹ 49	17 ⁸ 8	11 ⁷ 7	23 ⁴ 4	14 ⁵⁵ 55	17 ⁷ 7	3 ² 2	7 ⁵² 52	9 ⁴¹ 41	26 ⁵⁸ 58	27 ⁴³ 43	10 ⁵² 52	22 ²² 22	F 15
S 16	10 20 15	6 ⁴⁵ 25	28 ⁴⁸ 48	18 ⁵⁹ 59	12 ²¹ 21	22 ⁴² 42	15 ⁴ 4	17 ² 2	3 ⁰ 0	7 ⁵⁴ 54	9 ⁴² 42	26 ⁴⁵ 45	27 ⁴⁰ 40	10 ⁵⁹ 59	22 ²⁵ 25	S 16
S 17	10 24 12	7 ⁴⁵ 29	10 ⁴¹ 41	20 ⁴⁹ 49	13 ³⁵ 35	22 ²¹ 21	15 ¹³ 13	16 ⁵⁷ 57	2 ⁵⁸ 58	7 ⁵⁶ 56	9 ⁴⁴ 44	26 ³⁵ 35	27 ³⁷ 37	11 ⁵ 5	22 ²⁸ 28	S 17
M 18	10 28 8	8 ⁴⁵ 32	22 ³⁰ 30	22 ³⁷ 37	14 ⁴⁹ 49	22 ⁰ 0	15 ²³ 23	16 ⁵³ 53	2 ⁵⁶ 56	7 ⁵⁸ 58	9 ⁴⁵ 45	26 ²⁸ 28	27 ³⁴ 34	11 ¹² 12	22 ³¹ 31	M 18
T 19	10 32 5	9 ⁴⁵ 33	4 ¹⁸ 18	24 ²³ 23	16 ³ 3	21 ³⁹ 39	15 ³² 32	16 ⁴⁸ 48	2 ⁵⁴ 54	8 ⁰ 0	9 ⁴⁷ 47	26 ²³ 23	27 ³¹ 31	11 ¹⁹ 19	22 ³⁴ 34	T 19
W 20	10 36 1	10 ⁴⁵ 33	16 ¹⁰ 10	26 ⁵ 5	17 ¹⁸ 18	21 ¹⁹ 19	15 ⁴¹ 41	16 ⁴³ 43	2 ⁵² 52	8 ³ 3	9 ⁴⁹ 49	26 ²¹ 21	27 ²⁷ 27	11 ²⁵ 25	22 ³⁷ 37	W 20
T 21	10 39 58	11 ⁴⁵ 30	28 ⁹ 9	27 ⁴⁵ 45	18 ³² 32	20 ⁵⁹ 59	15 ⁵¹ 51	16 ³⁹ 39	2 ⁵⁰ 50	8 ⁵ 5	9 ⁵⁰ 50	26 ²¹ 21	27 ²⁴ 24	11 ³² 32	22 ⁴⁰ 40	T 21
F 22	10 43 54	12 ⁴⁵ 27	10 ⁴¹ 41	29 ²⁰ 20	19 ⁴⁶ 46	20 ⁴⁰ 40	16 ⁰ 0	16 ³⁴ 34	2 ⁴⁸ 48	8 ⁷ 7	9 ⁵² 52	26 ²¹ 21	27 ²¹ 21	11 ³⁹ 39	22 ⁴³ 43	F 22
S 23	10 47 51	13 ⁴⁵ 21	22 ⁵² 52	0 ⁵¹ 51	21 ⁰ 0	20 ²² 22	16 ¹⁰ 10	16 ²⁹ 29	2 ⁴⁶ 46	8 ⁹ 9	9 ⁵³ 53	26 ²¹ 21	27 ¹⁸ 18	11 ⁴⁵ 45	22 ⁴⁶ 46	S 23
S 24	10 51 47	14 ⁴⁵ 14	5 ³⁸ 38	2 ¹⁷ 17	22 ¹⁴ 14	20 ⁴ 4	16 ²⁰ 20	16 ²⁴ 24	2 ⁴⁵ 45	8 ¹¹ 11	9 ⁵⁵ 55	26 ¹⁹ 19	27 ¹⁵ 15	11 ⁵² 52	22 ⁴⁹ 49	S 24
M 25	10 55 44	15 ⁴⁵ 05	19 ⁸ 8	3 ³⁸ 38	23 ²⁸ 28	19 ⁴⁷ 47	16 ³⁰ 30	16 ²⁰ 20	2 ⁴³ 43	8 ¹³ 13	9 ⁵⁷ 57	26 ¹⁵ 15	27 ¹² 12	11 ⁵⁹ 59	22 ⁵³ 53	M 25
T 26	10 59 41	16 ⁴⁴ 55	2 ⁵⁹ 59	4 ⁵³ 53	24 ⁴³ 43	19 ³¹ 31	16 ⁴⁰ 40	16 ¹⁵ 15	2 ⁴¹ 41	8 ¹⁵ 15	9 ⁵⁸ 58	26 ⁸ 8	27 ⁸ 8	12 ⁵ 5	22 ⁵⁶ 56	T 26
W 27	11 3 37	17 ⁴⁴ 42	17 ²⁰ 20	6 ¹ 1	25 ⁵⁷ 57	19 ¹⁵ 15	16 ⁵⁰ 50	16 ¹⁰ 10	2 ⁴⁰ 40	8 ¹⁷ 17	10 ⁰ 0	25 ⁵⁹ 59	27 ⁵ 5	12 ¹² 12	22 ⁵⁹ 59	W 27
T 28	11 7 34	18 ⁴⁴ 28	2 ⁴⁸ 48	7 ³ 3	27 ¹¹ 11	19 ⁹ 9	17 ⁸ 8	16 ¹² 12	2 ³⁸ 38	8 ¹⁹ 19	10 ¹ 1	25 ⁴⁹ 49	27 ² 2	12 ¹⁹ 19	23 ³ 3	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s19	12s51	4s56	16s28	2s 0	21s27	0s 3	16n13	4n29	14n59	0s52	6n49	2n18	20n 2	0n39	1n31	1s34	24s56	7s13	19n54	19n52	0s 7	8n36	0n 7			
S 2	13 59	6 40	4 32	15 50	1 58	21 17	0 6	16 21	4 29	15 1	0 52	6 51	2 18	20 3	0 39	1 32	1 34	24 55	7 13	19 52	19 51	0 10	8 37	0 6			
S 3	13 39	0 8	3 50	15 11	1 55	21 6	0 9	16 30	4 29	15 3	0 52	6 53	2 18	20 3	0 39	1 33	1 34	24 55	7 13	19 50	19 51	0 13	8 37	0 6			
M 4	13 19	6n20	2 53	14 30	1 52	20 54	0 12	16 38	4 29	15 6	0 51	6 54	2 18	20 4	0 39	1 33	1 34	24 54	7 13	19 49	19 50	0 16	8 38	0 6			
T 5	12 59	12 21	1 47	13 48	1 48	20 42	0 14	16 46	4 29	15 8	0 51	6 56	2 18	20 4	0 39	1 34	1 34	24 54	7 13	19 48	19 49	0 19	8 39	0 6			
W 6	12 38	17 37	0 35	13 4	1 43	20 29	0 17	16 54	4 29	15 11	0 51	6 58	2 18	20 5	0 39	1 35	1 34	24 54	7 14	19 48	19 49	0 23	8 40	0 6			
T 7	12 18	21 50	0n37	12 19	1 38	20 16	0 20	17 2	4 29	15 13	0 51	7 0	2 19	20 5	0 39	1 36	1 34	24 53	7 14	19 48	19 48	0 26	8 41	0 6			
F 8	11 57	24 46	1 46	11 33	1 33	20 2	0 23	17 10	4 28	15 16	0 50	7 2	2 19	20 6	0 39	1 36	1 34	24 53	7 14	19 48	19 47	0 29	8 42	0 6			
S 9	11 36	26 17	2 47	10 45	1 26	19 47	0 25	17 17	4 27	15 18	0 50	7 3	2 19	20 7	0 39	1 37	1 34	24 53	7 14	19 47	19 46	0 32	8 43	0 6			
S 10	11 14	26 19	3 39	9 56	1 19	19 32	0 28	17 25	4 27	15 21	0 50	7 5	2 19	20 7	0 39	1 38	1 34	24 52	7 14	19 46	19 46	0 35	8 44	0 6			
M 11	10 53	24 57	4 19	9 7	1 12	19 16	0 30	17 32	4 26	15 24	0 50	7 7	2 19	20 8	0 39	1 39	1 34	24 52	7 14	19 44	19 45	0 38	8 45	0 6			
T 12	10 31	22 22	4 46	8 16	1 4	19 0	0 33	17 39	4 25	15 26	0 50	7 9	2 19	20 8	0 39	1 40	1 34	24 52	7 14	19 41	19 44	0 42	8 46	0 6			
W 13	10 9	18 46	4 58	7 24	0 55	18 43	0 35	17 46	4 24	15 29	0 49	7 11	2 19	20 9	0 39	1 40	1 34	24 51	7 15	19 38	19 44	0 45	8 47	0 6			
T 14	9 48	14 25	4 57	6 31	0 46	18 26	0 38	17 52	4 23	15 32	0 49	7 13	2 20	20 9	0 39	1 41	1 34	24 51	7 15	19 35	19 43	0 48	8 48	0 5			
F 15	9 25	9 33	4 42	5 38	0 35	18 8	0 40	17 59	4 22	15 35	0 49	7 15	2 20	20 9	0 39	1 42	1 34	24 51	7 15	19 32	19 42	0 51	8 49	0 5			
S 16	9 3	4 22	4 15	4 45	0 25	17 49	0 42	18 5	4 21	15 37	0 49	7 17	2 20	20 10	0 39	1 43	1 34	24 50	7 15	19 29	19 41	0 54	8 50	0 5			
S 17	8 41	0s55	3 37	3 51	0 14	17 30	0 45	18 11	4 19	15 40	0 48	7 19	2 20	20 10	0 39	1 44	1 34	24 50	7 15	19 27	19 41	0 57	8 51	0 5			
M 18	8 18	6 10	2 49	2 58	0 2	17 11	0 47	18 16	4 18	15 43	0 48	7 20	2 20	20 11	0 39	1 44	1 34	24 50	7 15	19 25	19 40	1 1	8 52	0 5			
T 19	7 56	11 12	1 54	2 5	0n10	16 51	0 49	18 22	4 16	15 46	0 48	7 22	2 20	20 11	0 39	1 45	1 33	24 49	7 15	19 24	19 39	1 4	8 53	0 5			
W 20	7 33	15 51	0 54	1 13	0 23	16 30	0 51	18 27	4 15	15 49	0 48	7 24	2 20	20 12	0 39	1 46	1 33	24 49	7 16	19 23	19 39	1 7	8 54	0 5			
T 21	7 10	19 57	0s10	0 21	0 36	16 10	0 54	18 32	4 13	15 52	0 48	7 26	2 20	20 12	0 39	1 47	1 33	24 49	7 16	19 23	19 38	1 10	8 55	0 5			
F 22	6 47	23 16	1 14	0n29	0 49	15 48	0 56	18 36	4 11	15 55	0 47	7 28	2 20	20 13	0 39	1 48	1 33	24 49	7 16	19 23	19 37	1 13	8 56	0 5			
S 23	6 24	25 34	2 16	1 17	1 2	15 27	0 58	18 40	4 9	15 58	0 47	7 30	2 20	20 13	0 39	1 49	1 33	24 48	7 16	19 23	19 36	1 17	8 57	0 5			
S 24	6 1	26 35	3 13	2 4	1 16	15 4	1 0	18 44	4 7	16 1	0 47	7 32	2 20	20 13	0 39	1 49	1 33	24 48	7 16	19 23	19 36	1 20	8 58	0 5			
M 25	5 38	26 7	4 2	2 49	1 29	14 42	1 1	18 48	4 5	16 4	0 47	7 34	2 21	20 14	0 39	1 50	1 33	24 48	7 16	19 22	19 35	1 23	8 59	0 5			
T 26	5 15	24 3	4 39	3 31	1 42	14 19	1 3	18 51	4 3	16 7	0 46	7 36	2 21	20 14	0 39	1 51	1 33	24 47	7 17	19 20	19 34	1 26	9 0	0 4			
W 27	4 51	20 25	4 59	4 10	1 56	13 55	1 5	18 54	4 3	16 10	0 46	7 38	2 21	20 14	0 39	1 52	1 33	24 47	7 17	19 18	19 33	1 29	9 2	0 4			
T 28	4s28	15s26	5s 1	4n46	2n 8	13s32	1s 7	18n57	3n59	16n13	0s46	7n40	2n21	20n15	0n38	1n53	1s33	24s47	7s17	19n16	19n33	1s32	9n 3	0n 4			

ASTRODIENST EPHEMERIS for the year 1538
geocentric

MARCH 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	11 11 30	19 ^h 44'12"	17 ^h 10'	7 ^h 58'	28 ^h 25'	18 ^h R46	17 ^h 81'	16 ^h R 1	2 ^h R37	8 ^h Y22	10 ^h 33'	25 ^h R39	26 ^h 859	12 ^h 25'	23 ^h Y 6	F 1
S 2	11 15 27	20°43'54"	2 ^h Y22	8°45'	29°39'	18 ^h Ω33	17°22'	15 ^h Y56	2 ^h Ω35	8°24'	10° 4'	25 ^h Ω29	26°56'	12°32'	23° 9'	S 2
S 3	11 19 23	21°43'33"	17°32'	9°24'	0 ^h 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 ^h Ω30	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 ^h Y22	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 ^h 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 ^h Y245	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 ^h Ω 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 ^h 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 ^h Y37	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 ^h Ω32	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 ^h Y11	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 ^h 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 ^h Y42	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 ^h Y32	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 ^h 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 ^h Y22	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 ^h 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°Ω33	23°Ω 5	13 ^h Y54	2°D13	9°Y29	10°38'	23°Ω41	25°Ω24	15°Ω46	24°Y57	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	4s 4	9s24	4s42	5n19	2n21	13s 7	1s 8	18n59	3n57	16n17	0s46	7n42	2n21	20n15	0n38	1n54	1s33	24s47	7s17	19n13	19n32	1s36	9n 4	0n 4			
S 2	3 41	2 46	4 3	5 48	2 32	12 43	1 10	19 2	3 55	16 20	0 46	7 43	2 21	20 15	0 38	1 55	1 33	24 47	7 17	19 11	19 31	1 39	9 5	0 4			
S 3	3 17	4n 1	3 7	6 14	2 43	12 18	1 12	19 3	3 53	16 23	0 45	7 45	2 21	20 16	0 38	1 55	1 33	24 46	7 18	19 9	19 31	1 42	9 6	0 4			
M 4	2 54	10 31	1 58	6 35	2 53	11 53	1 13	19 5	3 50	16 26	0 45	7 47	2 21	20 16	0 38	1 56	1 33	24 46	7 18	19 8	19 30	1 45	9 8	0 4			
T 5	2 30	16 18	0 43	6 53	3 2	11 27	1 15	19 6	3 48	16 29	0 45	7 49	2 21	20 16	0 38	1 57	1 33	24 46	7 18	19 8	19 29	1 48	9 9	0 4			
W 6	2 7	21 1	0n33	7 6	3 10	11 2	1 16	19 7	3 46	16 32	0 45	7 51	2 21	20 17	0 38	1 58	1 33	24 46	7 18	19 8	19 28	1 51	9 10	0 4			
T 7	1 43	24 25	1 45	7 15	3 17	10 35	1 17	19 8	3 43	16 36	0 45	7 53	2 21	20 17	0 38	1 59	1 33	24 45	7 18	19 8	19 28	1 55	9 11	0 4			
F 8	1 19	26 18	2 49	7 20	3 22	10 9	1 18	19 9	3 41	16 39	0 45	7 54	2 21	20 17	0 38	2 0	1 33	24 45	7 19	19 8	19 27	1 58	9 12	0 4			
S 9	0 56	26 40	3 42	7 20	3 26	9 42	1 20	19 9	3 39	16 42	0 44	7 56	2 21	20 17	0 38	2 1	1 33	24 45	7 19	19 8	19 26	2 1	9 14	0 4			
S 10	0 32	25 35	4 23	7 16	3 28	9 15	1 21	19 9	3 36	16 46	0 44	7 58	2 21	20 18	0 38	2 2	1 33	24 45	7 19	19 7	19 25	2 4	9 15	0 3			
M 11	0 8	23 14	4 51	7 7	3 28	8 48	1 22	19 8	3 34	16 49	0 44	8 0	2 21	20 18	0 38	2 2	1 33	24 45	7 19	19 6	19 25	2 7	9 16	0 3			
T 12	0n15	19 50	5 4	6 55	3 27	8 21	1 23	19 8	3 31	16 52	0 44	8 2	2 21	20 18	0 38	2 3	1 33	24 45	7 19	19 4	19 24	2 11	9 18	0 3			
W 13	0 39	15 38	5 3	6 38	3 24	7 53	1 24	19 7	3 29	16 55	0 44	8 3	2 21	20 18	0 38	2 4	1 33	24 45	7 20	19 1	19 23	2 14	9 19	0 3			
T 14	1 3	10 52	4 49	6 19	3 19	7 25	1 25	19 6	3 26	16 59	0 43	8 5	2 21	20 18	0 38	2 5	1 33	24 44	7 20	18 59	19 22	2 17	9 20	0 3			
F 15	1 26	5 45	4 22	5 56	3 13	6 57	1 25	19 5	3 24	17 2	0 43	8 7	2 21	20 19	0 38	2 6	1 33	24 44	7 20	18 57	19 22	2 20	9 21	0 3			
S 16	1 50	0 26	3 44	5 30	3 5	6 29	1 26	19 3	3 21	17 5	0 43	8 8	2 21	20 19	0 38	2 7	1 33	24 44	7 20	18 54	19 21	2 23	9 23	0 3			
S 17	2 13	4s53	2 56	5 2	2 55	6 1	1 27	19 1	3 19	17 9	0 43	8 10	2 21	20 19	0 38	2 8	1 33	24 44	7 21	18 53	19 20	2 27	9 24	0 3			
M 18	2 37	10 2	2 0	4 32	2 44	5 32	1 27	18 59	3 17	17 12	0 43	8 12	2 21	20 19	0 38	2 9	1 33	24 44	7 21	18 51	19 19	2 30	9 25	0 3			
T 19	3 0	14 50	1 0	4 1	2 32	5 3	1 28	18 57	3 14	17 15	0 43	8 13	2 21	20 19	0 38	2 10	1 33	24 44	7 21	18 51	19 19	2 33	9 27	0 3			
W 20	3 24	19 7	0s 5	3 30	2 18	4 35	1 28	18 55	3 12	17 19	0 42	8 15	2 21	20 19	0 38	2 11	1 33	24 44	7 21	18 50	19 18	2 36	9 28	0 3			
T 21	3 47	22 40	1 9	2 58	2 4	4 6	1 29	18 52	3 9	17 22	0 42	8 16	2 21	20 19	0 38	2 11	1 33	24 44	7 21	18 51	19 17	2 39	9 29	0 3			
F 22	4 10	25 15	2 12	2 26	1 48	3 37	1 29	18 49	3 7	17 26	0 42	8 18	2 20	20 20	0 38	2 12	1 33	24 44	7 22	18 51	19 16	2 42	9 31	0 3			
S 23	4 33	26 39	3 10	1 56	1 33	3 7	1 29	18 46	3 4	17 29	0 42	8 19	2 20	20 20	0 38	2 13	1 33	24 43	7 22	18 51	19 16	2 46	9 32	0 2			
S 24	4 56	26 41	4 0	1 26	1 17	2 38	1 29	18 43	3 2	17 32	0 42	8 21	2 20	20 20	0 38	2 14	1 33	24 43	7 22	18 51	19 15	2 49	9 33	0 2			
M 25	5 19	25 12	4 39	0 59	1 0	2 9	1 30	18 39	3 0	17 36	0 42	8 22	2 20	20 20	0 38	2 15	1 33	24 43	7 22	18 51	19 14	2 52	9 35	0 2			
T 26	5 42	22 13	5 3	0 33	0 44	1 39	1 30	18 35	2 57	17 39	0 41	8 24	2 20	20 20	0 38	2 16	1 33	24 43	7 23	18 51	19 13	2 55	9 36	0 2			
W 27	6 5	17 50	5 10	0 9	0 28	1 10	1 30	18 32	2 55	17 42	0 41	8 25	2 20	20 20	0 38	2 17	1 33	24 43	7 23	18 49	19 13	2 58	9 37	0 2			
T 28	6 28	12 18	4 58	0s13	0 12	0 40	1 30	18 28	2 52	17 46	0 41	8 26	2 20	20 20	0 38	2 18	1 33	24 43	7 23	18 48	19 12	3 2	9 39	0 2			
F 29	6 50	5 54	4 25	0 32	0 4	0 10	1 29	18 23	2 50	17 49	0 41	8 28	2 20	20 20	0 38	2 18	1 33	24 43	7 23	18 47	19 11	3 5	9 40	0 2			
S 30	7 13	0n55	3 33	0 49	0 19	0n19	1 29	18 19	2 48	17 53	0 41	8 29	2 20	20 20	0 38	2 19	1 33	24 43	7 24	18 46	19 10	3 8	9 41	0 2			
S 31	7n35	7n44	2s26	1s 3	0s33	0n49	1s29	18n14	2n45	17n56	0s41	8n30	2n20	20n20	0n38	2n20	1s33	24s43	7s24	18n45	19n10	3s11	9n43	0n 2			

ASTRODIENST EPHEMERIS for the year 1538

geocentric

APRIL 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	13 13 43	20°18'13	10°57	28°43	6°42	17°42	23°17	13°R50	2°13	9°31	10°39	23°R39	25°20	15°53	25°1	M 1
T 2	13 17 40	21°16'52	25°48	28°51	7°56	17°51	23°30	13°47	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°11	29° 5	9°10	18° 0	23°43	13°44	2°13	9°36	10°40	23°B39	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°55	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°13	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°54	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
W10	13 49 12	29° 4'42	10°44	2°43	17°47	19°24	25°15	13°24	2°15	9°51	10°45	23°35	24°52	16°53	25°36	W10
T 11	13 53 9	0° 3'02	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°32	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
M15	14 8 55	3°55'59	10°13	7° 9	23°56	20°39	26°22	13°12	2°19	10° 2	10°48	23°20	24°36	17°26	25°56	M15
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
W17	14 16 48	5°52'17	4° 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	W17
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	11°13	12°47	0° 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
M22	14 36 31	10°42'36	7°22	15°21	2°33	22°42	27°58	13° 0	2°26	10°16	10°51	23°R25	24°14	18°13	26°23	M22
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
W24	14 44 24	12°38'34	5° 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	W24
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° 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° 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
M29	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	M29
T 30	15 8 3	18°25'55	3°15	27°15	12°24	25°27	29°48	12°51	2°36	10°32	10°52	23°B20	23°48	19° 6	26°53	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	7n57	14n 4	1 s 9	1s14	0s47	1n19	1s29	18n 9	2n43	17n59	0s41	8n31	2n20	20n20	0n38	2n21
T 2	8 19	19 27	0n12	1 23	1 0	1 48	1 28	18 4	2 41	18 3	0 40	8 32	2 20	20 20	0 38	2 22
W 3	8 41	23 32	1 30	1 29	1 13	2 18	1 28	17 59	2 39	18 6	0 40	8 34	2 19	20 20	0 38	2 23
T 4	9 3	26 3	2 40	1 33	1 25	2 47	1 27	17 54	2 36	18 9	0 40	8 35	2 19	20 20	0 38	2 24
F 5	9 25	26 54	3 39	1 34	1 36	3 17	1 27	17 49	2 34	18 13	0 40	8 36	2 19	20 20	0 38	2 25
S 6	9 46	26 12	4 24	1 33	1 47	3 46	1 26	17 43	2 32	18 16	0 40	8 37	2 19	20 19	0 38	2 25
S 7	10 8	24 6	4 55	1 29	1 57	4 16	1 25	17 37	2 30	18 19	0 40	8 38	2 19	20 19	0 38	2 26
M 8	10 29	20 54	5 11	1 23	2 6	4 45	1 24	17 31	2 28	18 23	0 40	8 39	2 19	20 19	0 37	2 27
T 9	10 50	16 51	5 13	1 15	2 14	5 14	1 23	17 25	2 26	18 26	0 39	8 40	2 19	20 19	0 37	2 28
W10	11 10	12 11	5 0	1 5	2 21	5 43	1 23	17 19	2 24	18 29	0 39	8 41	2 19	20 19	0 37	2 29
T 11	11 31	7 7	4 34	0 53	2 28	6 12	1 22	17 12	2 21	18 33	0 39	8 42	2 18	20 19	0 37	2 30
F 12	11 52	1 49	3 57	0 38	2 34	6 41	1 21	17 6	2 19	18 36	0 39	8 41	2 18	20 19	0 37	2 30
S 13	12 12	3s32	3 10	0 22	2 40	7 10	1 20	16 59	2 17	18 39	0 39	8 43	2 18	20 18	0 37	2 31
S 14	12 32	8 46	2 14	0 4	2 45	7 39	1 18	16 52	2 15	18 43	0 39	8 44	2 18	20 18	0 37	2 32
M15	12 52	13 43	1 13	0n16	2 49	8 7	1 17	16 45	2 13	18 46	0 39	8 44	2 18	20 18	0 37	2 33
T 16	13 11	18 12	0 7	0 37	2 52	8 35	1 16	16 38	2 11	18 49	0 39	8 45	2 18	20 18	0 37	2 34
W17	13 31	21 58	0s59	1 1	2 55	9 3	1 15	16 31	2 9	18 52	0 38	8 46	2 18	20 18	0 37	2 34
T 18	13 50	24 50	2 3	1 25	2 57	9 31	1 13	16 23	2 7	18 56	0 38	8 46	2 17	20 17	0 37	2 35
F 19	14 9	26 33	3 3	1 52	2 58	9 59	1 12	16 16	2 5	18 59	0 38	8 47	2 17	20 17	0 37	2 36
S 20	14 28	26 56	3 55	2 19	2 59	10 26	1 10	16 8	2 4	19 2	0 38	8 47	2 17	20 17	0 37	2 37
S 21	14 46	25 53	4 36	2 49	2 59	10 53	1 9	16 0	2 2	19 5	0 38	8 48	2 17	20 17	0 37	2 38
M22	15 4	23 23	5 5	3 19	2 58	11 20	1 7	15 52	2 0	19 9	0 38	8 48	2 17	20 16	0 37	2 38
T 23	15 23	19 32	5 17	3 51	2 57	11 47	1 6	15 44	1 58	19 12	0 38	8 49	2 17	20 16	0 37	2 39
W24	15 40	14 31	5 10	4 24	2 55	12 13	1 4	15 36	1 56	19 15	0 38	8 49	2 16	20 16	0 37	2 40
T 25	15 58	8 35	4 45	4 58	2 53	12 39	1 2	15 27	1 54	19 18	0 38	8 49	2 16	20 15	0 37	2 41
F 26	16 15	2 3	4 0	5 34	2 50	13 5	1 1	15 19	1 53	19 21	0 37	8 49	2 16	20 15	0 37	2 41
S 27	16 32	4n43	2 59	6 10	2 46	13 31	0 59	15 10	1 51	19 24	0 37	8 50	2 16	20 15	0 37	2 42
S 28	16 49	11 17	1 45	6 47	2 42	13 56	0 57	15 1	1 49	19 27	0 37	8 50	2 16	20 14	0 37	2 43
M29	17 5	17 11	0 23	7 26	2 38	14 21	0 55	14 53	1 47	19 30	0 37	8 50	2 16	20 14	0 37	2 44
T 30	17n21	21n58	0n59	8n 5	2s33	14n45	0s53	14n44	1n46	19n33	0s37	8n50	2n15	20n14	0n37	2n44

Julian Day Number = 2282902.5, Delta T = 205.84 sec

Ecliptic obliquity = 23°30'03, Nutation = - 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°17'50, Lahiri = 17°24'50 Julian Calendar 1 Apr. 1538 == Greg. Calendar 11 Apr. 1538

ASTRODIENST EPHEMERIS for the year 1538

geocentric

MAY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	15 12 0	19°32'43	18°32'	28°42'	13°38'	25°49'	0°12'	12°R51	2°38'	10°V34	10°52'	23°R21	23°45'	19°13'	26°V56	W 1
T 2	15 15 57	20°21'31	2°42'	0°22'	14°51'	26°12'	0°16'	12°R50	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°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°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°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°52'	18°57'	27° 9'	0°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°15'52	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°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°15'50	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°31'5	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°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°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°V46	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°34'9	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°32'	29°11'35	20°11'29	9°11'1	7°11'0	13°11'21	3°46'	11°19'	10°42'	23°10'	22°10'	22°33'	28°36'	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	17n37	25n15	2n15	8n45	2s27	15n 9	0s51	14n34	1n44	19n37	0s37	8n50	2n15	20n13	0n37	W 1
T 2	17 53	26 50	3 22	9 26	2 21	15 33	0 49	14 25	1 42	19 40	0 37	8 50	2 15	20 13	0 37	T 2
F 3	18 8	26 41	4 14	10 8	2 14	15 56	0 47	14 16	1 41	19 43	0 37	8 50	2 15	20 12	0 37	F 3
S 4	18 23	25 0	4 51	10 50	2 7	16 19	0 45	14 6	1 39	19 46	0 37	8 50	2 15	20 12	0 37	S 4
S 5	18 38	22 3	5 12	11 32	1 59	16 42	0 43	13 57	1 37	19 49	0 36	8 50	2 15	20 12	0 37	S 5
M 6	18 52	18 8	5 17	12 16	1 51	17 4	0 41	13 47	1 36	19 52	0 36	8 50	2 14	20 11	0 37	M 6
T 7	19 6	13 34	5 8	12 59	1 43	17 26	0 39	13 37	1 34	19 54	0 36	8 50	2 14	20 11	0 37	T 7
W 8	19 20	8 33	4 45	13 43	1 34	17 47	0 37	13 27	1 32	19 57	0 36	8 49	2 14	20 10	0 37	W 8
T 9	19 33	3 17	4 10	14 27	1 24	18 8	0 35	13 17	1 31	20 0	0 36	8 49	2 14	20 10	0 37	T 9
F 10	19 47	2s 4	3 25	15 10	1 15	18 48	0 33	13 7	1 29	20 3	0 36	8 49	2 14	20 9	0 37	F 10
S 11	19 59	7 22	2 31	15 54	1 5	18 48	0 30	12 56	1 28	20 6	0 36	8 48	2 13	20 9	0 37	S 11
S 12	20 12	12 25	1 30	16 37	0 55	19 7	0 28	12 46	1 26	20 9	0 36	8 48	2 13	20 8	0 37	S 12
M13	20 24	17 4	0 25	17 20	0 44	19 26	0 26	12 35	1 25	20 12	0 36	8 48	2 13	20 8	0 37	M13
T 14	20 35	21 4	0s42	18 3	0 34	19 44	0 24	12 25	1 23	20 14	0 36	8 47	2 13	20 7	0 37	T 14
W15	20 47	24 13	1 47	18 44	0 23	20 2	0 21	12 14	1 22	20 17	0 36	8 47	2 13	20 7	0 37	W15
T 16	20 58	26 15	2 49	19 24	0 12	20 19	0 19	12 3	1 20	20 20	0 35	8 46	2 13	20 6	0 37	T 16
F 17	21 8	26 58	3 44	20 3	0 2	20 36	0 17	11 52	1 19	20 23	0 35	8 45	2 12	20 6	0 36	F 17
S 18	21 19	26 15	4 28	20 41	0n 9	20 52	0 14	11 41	1 17	20 25	0 35	8 45	2 12	20 5	0 36	S 18
S 19	21 29	24 5	4 59	21 17	0 20	21 7	0 12	11 30	1 16	20 28	0 35	8 44	2 12	20 4	0 36	S 19
M20	21 38	20 35	5 15	21 51	0 30	21 22	0 10	11 19	1 15	20 31	0 35	8 44	2 12	20 4	0 36	M20
T 21	21 47	15 55	5 13	22 23	0 40	21 37	0 7	11 7	1 13	20 33	0 35	8 43	2 12	20 3	0 36	T 21
W22	21 56	10 21	4 53	22 53	0 49	21 51	0 5	10 56	1 12	20 36	0 35	8 42	2 11	20 3	0 36	W22
T 23	22 5	4 10	4 16	23 20	0 59	22 4	0 2	10 44	1 10	20 39	0 35	8 41	2 11	20 2	0 36	T 23
F 24	22 13	2n21	3 21	23 44	1 7	22 16	0 0	10 33	1 9	20 41	0 35	8 40	2 11	20 1	0 36	F 24
S 25	22 20	8 50	2 14	24 6	1 15	22 28	0n 2	10 21	1 8	20 44	0 35	8 39	2 11	20 1	0 36	S 25
S 26	22 28	14 54	0 57	24 26	1 23	22 39	0 5	10 9	1 6	20 46	0 35	8 38	2 11	20 0	0 36	S 26
M27	22 35	20 6	0n24	24 42	1 30	22 50	0 7	9 57	1 5	20 49	0 35	8 38	2 11	19 59	0 36	M27
T 28	22 41	24 2	1 43	24 56	1 36	23 0	0 9	9 45	1 4	20 51	0 34	8 37	2 10	19 59	0 36	T 28
W29	22 47	26 21	2 54	25 7	1 41	23 9	0 12	9 33	1 2	20 54	0 34	8 35	2 10	19 58	0 36	W29
T 30	22 53	26 55	3 52	25 15	1 46	23 18	0 14	9 20	1 1	20 56	0 34	8 34	2 10	19 57	0 36	T 30
F 31	22n58	25n47	4n36	25n20	1n50	23n26	0n17	9n 8	1n 0	20n58	0s34	8n33	2n10	19n57	0n36	F 31

Julian Day Number = 2282932.5, Delta T = 205.66 sec

Ecliptic obliquity = 23°30'03, Nutation = - 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°17'54, Lahiri = 17°24'54 Julian Calendar 1 May 1538 == Greg. Calendar 11 May 1538

ASTRODIENST EPHEMERIS for the year 1538

geocentric

JUNE 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	17 14 13	19II 5'35	7♂52	19☾35	21II43	9♂31	7II14	13♂24	3♂49	11♂21	10°R41	23°R 7	22♂ 7	22♂39	28♂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°40	23° 3	22° 3	22°46	28°41	S 2
M 3	17 22 6	21° 0'06	3♂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♂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♂18	14°38	0☾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♂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♂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♂ 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♂ 1	0♂ 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♂ 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♂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	7II 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☾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♂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♂50	12♂54	27☾21	25♂ 8	13II41	15♂16	5♂23	11♂40	10°12	21♂47	20♂34	25♂53	29♂41	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n 3	23n13	5n 3	25n23	1n54	23n33	0n19	8n56	0n59	21n 1	0s34	8n32	2n10	19n56	0n36	3n 2	1s36	24s58	7s40	18n36	18n21	6s29	10n58	0s 3	0s 3
S 2	23 8	19 32	5 14	25 23	1 56	23 40	0 21	8 43	0 57	21 3	0 34	8 31	2 9	19 55	0 36	3 2	1 36	24 58	7 40	18 35	18 20	6 32	10 59	0 3	0 3
M 3	23 12	15 4	5 9	25 21	1 58	23 46	0 24	8 30	0 56	21 5	0 34	8 30	2 9	19 55	0 36	3 3	1 36	24 59	7 41	18 34	18 19	6 35	11 0	0 3	0 3
T 4	23 15	10 6	4 50	25 17	1 59	23 51	0 26	8 18	0 55	21 8	0 34	8 28	2 9	19 54	0 36	3 3	1 36	24 59	7 41	18 34	18 18	6 38	11 1	0 3	0 3
W 5	23 19	4 51	4 18	25 10	2 0	23 56	0 28	8 5	0 54	21 10	0 34	8 27	2 9	19 53	0 36	3 3	1 36	25 0	7 41	18 34	18 17	6 42	11 2	0 4	0 4
T 6	23 21	0s31	3 36	25 1	1 59	23 59	0 30	7 52	0 52	21 12	0 34	8 26	2 9	19 53	0 36	3 4	1 36	25 0	7 41	18 34	18 16	6 45	11 3	0 4	0 4
F 7	23 24	5 51	2 45	24 50	1 58	24 2	0 33	7 39	0 51	21 14	0 34	8 24	2 9	19 52	0 36	3 4	1 36	25 1	7 42	18 35	18 16	6 48	11 3	0 4	0 4
S 8	23 26	10 59	1 46	24 37	1 56	24 5	0 35	7 26	0 50	21 16	0 34	8 23	2 8	19 51	0 36	3 4	1 36	25 1	7 42	18 35	18 15	6 51	11 4	0 4	0 4
S 9	23 28	15 45	0 43	24 23	1 54	24 6	0 37	7 13	0 49	21 19	0 34	8 22	2 8	19 50	0 36	3 5	1 36	25 2	7 42	18 35	18 14	6 54	11 5	0 4	0 4
M10	23 29	19 58	0s23	24 7	1 51	24 7	0 39	7 0	0 48	21 21	0 34	8 20	2 8	19 50	0 36	3 5	1 36	25 2	7 42	18 36	18 13	6 58	11 6	0 4	0 4
T 11	23 30	23 24	1 29	23 50	1 47	24 8	0 41	6 46	0 46	21 23	0 34	8 19	2 8	19 49	0 36	3 5	1 36	25 2	7 42	18 35	18 12	7 1	11 7	0 4	0 4
W12	23 30	25 46	2 31	23 31	1 43	24 7	0 43	6 33	0 45	21 25	0 33	8 17	2 8	19 48	0 36	3 5	1 36	25 3	7 43	18 34	18 11	7 4	11 7	0 4	0 4
T 13	23 30	26 52	3 27	23 11	1 38	24 6	0 45	6 20	0 44	21 27	0 33	8 16	2 8	19 47	0 36	3 6	1 36	25 3	7 43	18 33	18 11	7 7	11 8	0 4	0 4
F 14	23 30	26 31	4 14	22 49	1 32	24 4	0 47	6 6	0 43	21 29	0 33	8 14	2 7	19 46	0 36	3 6	1 36	25 4	7 43	18 32	18 10	7 10	11 9	0 4	0 4
S 15	23 29	24 39	4 48	22 27	1 26	24 1	0 49	5 52	0 42	21 31	0 33	8 12	2 7	19 46	0 36	3 6	1 36	25 4	7 43	18 30	18 9	7 13	11 10	0 4	0 4
S 16	23 27	21 24	5 6	22 4	1 20	23 58	0 51	5 39	0 41	21 33	0 33	8 11	2 7	19 45	0 36	3 6	1 36	25 5	7 43	18 29	18 8	7 17	11 10	0 4	0 4
M17	23 26	16 57	5 8	21 40	1 12	23 54	0 53	5 25	0 40	21 35	0 33	8 9	2 7	19 44	0 36	3 7	1 36	25 5	7 44	18 27	18 7	7 20	11 11	0 5	0 5
T 18	23 24	11 34	4 52	21 15	1 5	23 49	0 55	5 11	0 39	21 37	0 33	8 7	2 7	19 43	0 36	3 7	1 37	25 6	7 44	18 26	18 6	7 23	11 12	0 5	0 5
W19	23 21	5 33	4 18	20 50	0 56	23 44	0 57	4 57	0 37	21 39	0 33	8 6	2 7	19 42	0 36	3 7	1 37	25 6	7 44	18 26	18 6	7 26	11 12	0 5	0 5
T 20	23 18	0n48	3 29	20 24	0 48	23 37	0 59	4 43	0 36	21 41	0 33	8 4	2 6	19 42	0 36	3 7	1 37	25 7	7 44	18 26	18 5	7 29	11 13	0 5	0 5
F 21	23 15	7 10	2 26	19 57	0 38	23 31	1 1	4 29	0 35	21 42	0 33	8 2	2 6	19 41	0 36	3 7	1 37	25 7	7 44	18 26	18 4	7 32	11 13	0 5	0 5
S 22	23 11	13 13	1 15	19 31	0 29	23 23	1 3	4 15	0 34	21 44	0 33	8 0	2 6	19 40	0 36	3 7	1 37	25 8	7 45	18 26	18 3	7 36	11 14	0 5	0 5
S 23	23 7	18 34	0n 2	19 4	0 19	23 15	1 4	4 1	0 33	21 46	0 33	7 58	2 6	19 39	0 36	3 7	1 37	25 8	7 45	18 26	18 2	7 39	11 15	0 5	0 5
M24	23 3	22 50	1 18	18 37	0 8	23 6	1 6	3 47	0 32	21 48	0 33	7 56	2 6	19 38	0 36	3 8	1 37	25 9	7 45	18 26	18 1	7 42	11 15	0 5	0 5
T 25	22 58	25 41	2 29	18 10	0s 3	22 56	1 7	3 33	0 31	21 49	0 33	7 54	2 6	19 37	0 36	3 8	1 37	25 9	7 45	18 25	18 1	7 45	11 16	0 5	0 5
W26	22 52	26 53	3 30	17 43	0 14	22 46	1 9	3 18	0 30	21 51	0 33	7 53	2 6	19 37	0 36	3 8	1 37	25 10	7 45	18 24	18 0	7 48	11 16	0 5	0 5
T 27	22 47	26 22	4 17	17 16	0 26	22 35	1 11	3 4	0 29	21 53	0 33	7 51	2 5	19 36	0 36	3 8	1 37	25 10	7 45	18 22	17 59	7 51	11 17	0 5	0 5
F 28	22 40	24 17	4 49	16 50	0 38	22 23	1 12	2 49	0 28	21 55	0 33	7 49	2 5	19 35	0 36	3 8	1 37	25 11	7 46	18 20	17 58	7 55	11 17	0 5	0 5
S 29	22 34	20 56	5 4	16 24	0 50	22 11	1 13	2 35	0 27	21 56	0 33	7 47	2 5	19 34	0 36	3 8	1 37	25 11	7 46	18 18	17 57	7 58	11 18	0 6	0 6
S 30	22n27	16n39	5n 4	15n58	1s 3	21n58	1n15	2n20	0n26	21n58	0s33	7n44	2n 5	19n33	0n36	3n 8	1s37	25s12	7s46	18n15	17n56	8s 1	11n18	0s 3	0s 3

ASTRODIENST EPHEMERIS for the year 1538

geocentric

JULY 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	19 12 30	17°54'42	11°24'24	13°08'38	28°35'35	25°42'13	13°54'54	15°21'21	5°02'27	11°40'40	10°R11	21°R39	20°31'31	25°59'59	29°42'42	M 1
T 2	19 16 27	18°38'57	23°40'40	14°19'19	29°49'49	26°17'17	14°6'6	15°26'26	5°30'30	11°40'40	10°R10	21°R34	20°28'28	26°6'6	29°44'44	T 2
W 3	19 20 23	19°36'12	5°43'43	14°56'56	1°02'2	26°51'51	14°19'19	15°31'31	5°34'34	11°40'40	10°8'8	21°31'31	20°25'25	26°13'13	29°45'45	W 3
T 4	19 24 20	20°33'27	17°37'37	15°28'28	2°16'16	27°26'26	14°31'31	15°37'37	5°38'38	11°40'40	10°7'7	21°D30	20°22'22	26°19'19	29°46'46	T 4
F 5	19 28 16	21°30'42	29°26'26	15°57'57	3°30'30	28°1'1	14°44'44	15°42'42	5°41'41	11°40'40	10°6'6	21°30'30	20°19'19	26°26'26	29°48'48	F 5
S 6	19 32 13	22°27'58	11°17'17	16°21'21	4°44'44	28°36'36	14°56'56	15°47'47	5°45'45	11°R40	10°5'5	21°31'31	20°15'15	26°33'33	29°49'49	S 6
S 7	19 36 9	23°25'14	23°14'14	16°41'41	5°57'57	29°11'11	15°8'8	15°53'53	5°48'48	11°40'40	10°3'3	21°R31	20°12'12	26°39'39	29°50'50	S 7
M 8	19 40 6	24°22'30	5°22'22	16°56'56	7°11'11	29°47'47	15°21'21	15°58'58	5°52'52	11°40'40	10°2'2	21°30'30	20°9'9	26°46'46	29°51'51	M 8
T 9	19 44 3	25°19'47	17°46'46	17°7'7	8°25'25	0°22'2	15°33'33	16°4'4	5°56'56	11°40'40	10°1'1	21°27'27	20°6'6	26°53'53	29°52'52	T 9
W10	19 47 59	26°17'05	0°32'28	17°12'12	9°39'39	0°57'7	15°45'45	16°9'9	5°59'59	11°40'40	9°59'59	21°22'22	20°3'3	26°59'59	29°53'53	W10
T 11	19 51 56	27°14'23	13°29'29	17°R13	10°52'52	1°33'33	15°57'57	16°15'15	6°3'3	11°40'40	9°58'58	21°14'14	20°0'0	27°6'6	29°54'54	T 11
F 12	19 55 52	28°11'42	26°51'51	17°8'8	12°6'6	2°9'9	16°9'9	16°21'21	6°7'7	11°40'40	9°57'57	21°5'5	19°56'56	27°13'13	29°54'54	F 12
S 13	19 59 49	29°9'01	10°30'30	16°59'59	13°20'20	2°45'45	16°21'21	16°27'27	6°10'10	11°39'39	9°56'56	20°54'54	19°53'53	27°19'19	29°55'55	S 13
S 14	20 3 45	0°06'22	24°25'25	16°44'44	14°34'34	3°21'21	16°33'33	16°32'32	6°14'14	11°39'39	9°54'54	20°43'43	19°50'50	27°26'26	29°56'56	S 14
M15	20 7 42	1°34'43	8°30'30	16°25'25	15°47'47	3°57'57	16°45'45	16°38'38	6°18'18	11°39'39	9°53'53	20°34'34	19°47'47	27°33'33	29°57'57	M15
T 16	20 11 38	2°1'05	22°41'41	16°0'0	17°1'1	4°33'33	16°56'56	16°44'44	6°22'22	11°39'39	9°52'52	20°27'27	19°44'44	27°39'39	29°57'57	T 16
W17	20 15 35	2°58'29	6°56'56	15°31'31	18°15'15	5°9'9	17°8'8	16°50'50	6°25'25	11°38'38	9°50'50	20°22'22	19°40'40	27°46'46	29°58'58	W17
T 18	20 19 32	3°55'53	21°6'6	14°57'57	19°29'29	5°46'46	17°19'19	16°56'56	6°29'29	11°38'38	9°49'49	20°20'20	19°37'37	27°52'52	29°58'58	T 18
F 19	20 23 28	4°53'19	5°16'16	14°20'20	20°42'42	6°22'22	17°31'31	17°3'3	6°33'33	11°37'37	9°48'48	20°D19	19°34'34	27°59'59	29°59'59	F 19
S 20	20 27 25	5°50'46	19°20'20	13°39'39	21°56'56	6°59'59	17°42'42	17°9'9	6°36'36	11°37'37	9°46'46	20°R20	19°31'31	28°6'6	29°59'59	S 20
S 21	20 31 21	6°48'15	3°20'20	12°55'55	23°10'10	7°36'36	17°54'54	17°15'15	6°40'40	11°37'37	9°45'45	20°19'19	19°28'28	28°12'12	29°59'59	S 21
M22	20 35 18	7°45'45	17°14'14	12°9'9	24°24'24	8°12'12	18°5'5	17°21'21	6°44'44	11°36'36	9°43'43	20°17'17	19°25'25	28°19'19	29°59'59	M22
T 23	20 39 14	8°43'16	1°01'01	11°22'22	25°37'37	8°49'49	18°16'16	17°28'28	6°48'48	11°36'36	9°42'42	20°12'12	19°21'21	28°26'26	29°59'59	T 23
W24	20 43 11	9°40'49	14°39'39	10°34'34	26°51'51	9°26'26	18°27'27	17°34'34	6°51'51	11°35'35	9°41'41	20°4'4	19°18'18	28°32'32	29°59'59	W24
T 25	20 47 7	10°38'23	28°7'7	9°46'46	28°5'5	10°4'4	18°38'38	17°40'40	6°55'55	11°34'34	9°39'39	19°54'54	19°15'15	28°39'39	29°59'59	T 25
F 26	20 51 4	11°35'58	11°02'02	9°0'0	29°18'18	10°41'41	18°49'49	17°47'47	6°59'59	11°34'34	9°38'38	19°42'42	19°12'12	28°46'46	29°R59	F 26
S 27	20 55 1	12°33'34	24°19'19	8°16'16	0°32'32	11°18'18	18°59'59	17°53'53	7°2'2	11°33'33	9°37'37	19°29'29	19°9'9	28°52'52	29°59'59	S 27
S 28	20 58 57	13°31'11	7°2'2	7°34'34	1°46'46	11°56'56	19°10'10	18°0'0	7°6'6	11°32'32	9°35'35	19°17'17	19°6'6	28°59'59	29°59'59	S 28
M29	21 2 54	14°28'49	19°28'28	6°57'57	3°0'0	12°33'33	19°21'21	18°7'7	7°10'10	11°32'32	9°34'34	19°6'6	19°2'2	29°6'6	29°59'59	M29
T 30	21 6 50	15°26'28	1°40'40	6°24'24	4°13'13	13°11'11	19°31'31	18°13'13	7°13'13	11°31'31	9°33'33	18°58'58	18°59'59	29°12'12	29°59'59	T 30
W31	21 10 47	16°02'49	13°40'40	5°05'57	5°27'27	13°49'49	19°42'42	18°20'20	7°02'02	11°30'30	9°31'31	18°52'52	18°56'56	29°19'19	29°59'59	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	22n20	11n45	4n48	15n33	1s16	21n44	1n16	2n 6	0n25	21n59	0s33	7n42	2n 5	19n32	0n36	3n 8
T 2	22 12	6 29	4 20	15 9	1 29	21 30	1 17	1 51	0 24	22 1	0 32	7 40	2 5	19 31	0 36	3 8
W 3	22 4	1 5	3 40	14 46	1 43	21 15	1 18	1 36	0 23	22 2	0 32	7 38	2 5	19 30	0 36	3 8
T 4	21 55	4s18	2 51	14 23	1 56	21 0	1 20	1 21	0 22	22 4	0 32	7 36	2 5	19 30	0 36	3 8
F 5	21 47	9 30	1 55	14 2	2 10	20 44	1 21	1 7	0 21	22 5	0 32	7 34	2 4	19 29	0 36	3 8
S 6	21 37	14 23	0 55	13 42	2 24	20 27	1 22	0 52	0 20	22 7	0 32	7 32	2 4	19 28	0 36	3 8
S 7	21 28	18 47	0s 9	13 23	2 37	20 10	1 23	0 37	0 19	22 8	0 32	7 29	2 4	19 27	0 36	3 8
M 8	21 18	22 27	1 13	13 5	2 51	19 52	1 24	0 22	0 18	22 10	0 32	7 27	2 4	19 26	0 36	3 8
T 9	21 8	25 11	2 15	12 49	3 4	19 34	1 24	0 7	0 17	22 11	0 32	7 25	2 4	19 25	0 36	3 8
W10	20 57	26 42	3 12	12 35	3 17	19 15	1 25	0s 8	0 16	22 12	0 32	7 23	2 4	19 24	0 36	3 7
T 11	20 46	26 48	4 0	12 23	3 30	18 56	1 26	0 23	0 15	22 14	0 32	7 20	2 4	19 23	0 36	3 7
F 12	20 35	25 21	4 36	12 12	3 43	18 36	1 26	0 38	0 14	22 15	0 32	7 18	2 4	19 22	0 36	3 7
S 13	20 23	22 25	4 57	12 4	3 54	18 15	1 27	0 54	0 13	22 16	0 32	7 16	2 3	19 21	0 36	3 7
S 14	20 11	18 9	5 2	11 57	4 5	17 54	1 28	1 9	0 12	22 17	0 32	7 13	2 3	19 20	0 36	3 7
M15	19 58	12 51	4 48	11 53	4 16	17 33	1 28	1 24	0 11	22 19	0 32	7 11	2 3	19 20	0 36	3 7
T 16	19 46	6 50	4 39	11 52	4 25	17 11	1 28	1 39	0 10	22 20	0 32	7 8	2 3	19 19	0 36	3 7
W17	19 33	0 27	3 16	11 52	4 33	16 48	1 29	1 54	0 10	22 21	0 32	7 6	2 3	19 18	0 36	3 6
T 18	19 19	5n58	2 28	11 56	4 40	16 25	1 29	2 10	0 9	22 22	0 32	7 3	2 3	19 17	0 36	3 6
F 19	19 6	12 4	1 19	12 1	4 45	16 2	1 29	2 25	0 8	22 23	0 32	7 1	2 3	19 16	0 36	3 6
S 20	18 52	17 31	0 5	12 9	4 49	15 38	1 29	2 40	0 7	22 24	0 32	6 58	2 3	19 15	0 36	3 6
S 21	18 37	22 0	1n 8	12 19	4 52	15 14	1 29	2 56	0 6	22 25	0 32	6 56	2 3	19 14	0 36	3 6
M22	18 23	25 10	2 17	12 31	4 52	14 50	1 29	3 11	0 5	22 26	0 32	6 53	2 3	19 13	0 36	3 5
T 23	18 8	26 47	3 18	12 45	4 51	14 25	1 29	3 27	0 4	22 27	0 32	6 51	2 3	19 12	0 36	3 5
W24	17 52	26 46	4 6	13 1	4 48	13 59	1 29	3 42	0 3	22 28	0 32	6 48	2 2	19 11	0 36	3 5
T 25	17 37	25 9	4 39	13 18	4 43	13 34	1 29	3 57	0 2	22 29	0 32	6 46	2 2	19 10	0 36	3 5
F 26	17 21	22 11	4 57	13 36	4 36	13 8	1 29	4 13	0 2	22 30	0 32	6 43	2 2	19 9	0 36	3 4
S 27	17 5	18 9	4 59	13 56	4 28	12 41	1 28	4 28	0 1	22 31	0 32	6 40	2 2	19 8	0 36	3 4
S 28	16 48	13 23	4 46	14 16	4 18	12 14	1 28	4 44	0s 0	22 32	0 32	6 38	2 2	19 7	0 36	3 4
M29	16 32	8 10	4 20	14 37	4 6	11 47	1 27	4 59	0 1	22 33	0 32	6 35	2 2	19 7	0 36	3 3
T 30	16 15	2 43	3 42	14 57	3 53	11 20	1 27	5 15	0 2	22 34	0 31	6 32	2 2	19 6	0 36	3 3
W31	15n58	2s44	2n54	15n18	3s39	10n52	1n26	5s30	0s 3	22n35	0s31	6n30	2n 2	19n 5	0n36	3n 3

Julian Day Number = 2282993.5, Delta T = 205.28 sec

Ecliptic obliquity = 23°30'03, Nutation = - 0°00'12, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°18'02, Lahiri = 17°25'03 Julian Calendar 1 July 1538 == Greg. Calendar 11 July 1538

ASTRODIENST EPHEMERIS for the year 1538

geocentric

AUGUST 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	21 14 43	17 ⁰² 21'50	25 ⁰² 32	5°R36	6 ⁰⁰ 41	14 ⁰² 27	19 ⁰² 52	18 ⁰⁰ 27	7 ⁰² 21	11°R29	9°R30	18°R49	18 ⁰⁵ 53	29 ⁰² 26	29°R59	T 1
F 2	21 18 40	18°19'33	7 ⁰⁰ 20	5 ⁰⁰ 21	7°54	15° 5	20° 2	18°33	7°24	11°Y29	9 ⁰⁰ 29	18 ⁰⁸ 48	18°50	29°32	29°Y58	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 ⁰⁰ 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 ⁰⁰ 31	5°57	14° 3	18°16	20°51	19° 8	7°43	11°24	9°22	18°37	18°34	0 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 51'45	1 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 9	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 ⁰⁰ 14	6° 7	0 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 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 ⁰⁰ 24'26	27 ⁰⁰ 15	11 ⁰⁰ 36	13 ⁰⁰ 27	4 ⁰⁰ 6	24 ⁰⁰ 5	22 ⁰⁰ 2	9 ⁰⁰ 4	10 ⁰⁰ Y54	8 ⁰⁰ 54	16 ⁰⁰ 8	17 ⁰⁰ 17	2 ⁰⁰ 45	29 ⁰⁰ Y23	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	15n40	8s 2	2n 0	15n38	3s23	10n24	1n25	5s46	0s 3	22n35	0s31	6n27	2n 2	19n 4	0n36	3n 2
F 2	15 23	13 3	1 0	15 57	3 7	9 56	1 25	6 1	0 4	22 36	0 31	6 24	2 2	19 3	0 36	3 2
S 3	15 5	17 36	0s 2	16 15	2 50	9 27	1 24	6 17	0 5	22 37	0 31	6 22	2 2	19 2	0 36	3 1
S 4	14 46	21 30	1 5	16 32	2 33	8 59	1 23	6 32	0 6	22 38	0 31	6 19	2 2	19 1	0 36	3 1
M 5	14 28	24 32	2 6	16 48	2 15	8 30	1 22	6 48	0 7	22 38	0 31	6 16	2 2	19 0	0 36	3 1
T 6	14 9	26 28	3 2	17 1	1 58	8 1	1 21	7 3	0 7	22 39	0 31	6 13	2 2	18 59	0 36	3 0
W 7	13 50	27 4	3 51	17 13	1 40	7 31	1 20	7 18	0 8	22 40	0 31	6 11	2 2	18 58	0 36	3 0
T 8	13 31	26 10	4 29	17 23	1 22	7 1	1 19	7 34	0 9	22 41	0 31	6 8	2 2	18 57	0 36	2 59
F 9	13 12	23 43	4 53	17 30	1 5	6 32	1 17	7 49	0 10	22 41	0 31	6 5	2 2	18 56	0 36	2 59
S 10	12 52	19 49	5 1	17 35	0 48	6 2	1 16	8 5	0 11	22 42	0 31	6 2	2 1	18 55	0 36	2 59
S 11	12 33	14 42	4 50	17 37	0 32	5 32	1 15	8 20	0 11	22 42	0 31	5 59	2 1	18 55	0 36	2 58
M12	12 13	8 41	4 20	17 36	0 16	5 1	1 13	8 35	0 12	22 43	0 31	5 57	2 1	18 54	0 36	2 58
T 13	11 53	2 10	3 33	17 32	0 2	4 31	1 12	8 51	0 13	22 44	0 31	5 54	2 1	18 53	0 36	2 57
W14	11 32	4n29	2 32	17 26	0n13	4 0	1 10	9 6	0 14	22 44	0 31	5 51	2 1	18 52	0 36	2 57
T 15	11 12	10 51	1 22	17 16	0 26	3 30	1 8	9 21	0 14	22 45	0 31	5 48	2 1	18 51	0 36	2 56
F 16	10 51	16 35	0 7	17 3	0 38	2 59	1 7	9 37	0 15	22 45	0 31	5 45	2 1	18 50	0 36	2 56
S 17	10 30	21 21	0n 7	16 47	0 49	2 28	1 5	9 52	0 16	22 46	0 31	5 42	2 1	18 49	0 36	2 55
S 18	10 9	24 48	2 16	16 29	1 0	1 57	1 3	10 7	0 17	22 46	0 31	5 39	2 1	18 48	0 36	2 55
M19	9 48	26 45	3 17	16 7	1 9	1 26	1 1	10 22	0 17	22 47	0 31	5 37	2 1	18 47	0 36	2 54
T 20	9 27	27 5	4 5	15 42	1 17	0 55	0 59	10 37	0 18	22 47	0 31	5 34	2 1	18 47	0 36	2 54
W21	9 5	25 51	4 39	15 15	1 24	0 24	0 57	10 52	0 19	22 48	0 31	5 31	2 1	18 46	0 36	2 53
T 22	8 43	23 13	4 58	14 45	1 31	0s 8	0 55	11 7	0 20	22 48	0 31	5 28	2 1	18 45	0 36	2 52
F 23	8 22	19 28	5 2	14 13	1 36	0 39	0 53	11 22	0 20	22 48	0 31	5 25	2 1	18 44	0 36	2 52
S 24	8 0	14 53	4 50	13 38	1 40	1 10	0 51	11 37	0 21	22 49	0 31	5 22	2 1	18 43	0 36	2 51
S 25	7 38	9 45	4 25	13 2	1 44	1 41	0 49	11 52	0 22	22 49	0 31	5 19	2 1	18 42	0 36	2 51
M26	7 15	4 20	3 47	12 24	1 46	2 12	0 47	12 7	0 22	22 50	0 31	5 16	2 1	18 41	0 36	2 50
T 27	6 53	1s11	3 0	11 44	1 48	2 43	0 44	12 21	0 23	22 50	0 31	5 13	2 1	18 41	0 36	2 50
W28	6 31	6 36	2 6	11 3	1 49	3 15	0 42	12 36	0 24	22 50	0 31	5 10	2 1	18 40	0 36	2 49
T 29	6 8	11 44	1 6	10 21	1 49	3 46	0 40	12 51	0 25	22 51	0 31	5 8	2 1	18 39	0 37	2 48
F 30	5 45	16 27	0 3	9 37	1 48	4 17	0 37	13 5	0 25	22 51	0 31	5 5	2 1	18 38	0 37	2 48
S 31	5n23	20s34	1s 0	8n53	1n47	4s48	0n35	13s20	0s26	22n51	0s31	5n 2	2n 1	18n37	0n37	2n47

Julian Day Number = 2283024.5, Delta T = 205.09 sec

Ecliptic obliquity = 23°30'03, Nutation = - 0°00'12, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°18'07, Lahiri = 17°25'07 Julian Calendar 1 Aug. 1538 == Greg. Calendar 11 Aug. 1538

ASTRODIENST EPHEMERIS for the year 1538
geocentric

SEPTEMBER 1538 JC

00:00 UT

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

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	5n 0	23s52	2s 1	8n 8	1n45	5s18	0n32	13s34	0s27	22n52	0s31	4n59	2n 1	18n36	0n37	2n47	1s40	25s36	7s49	16n41	17n 1	11s18	11n 5	0s12							
M 2	4 37	26 10	2 57	7 22	1 43	5 49	0 29	13 48	0 27	22 52	0 31	4 56	2 1	18 36	0 37	2 46	1 40	25 36	7 48	16 42	17 1	11 21	11 5	0 12							
T 3	4 14	27 14	3 47	6 36	1 40	6 20	0 27	14 3	0 28	22 52	0 31	4 53	2 1	18 35	0 37	2 45	1 40	25 37	7 48	16 41	17 0	11 24	11 4	0 12							
W 4	3 51	26 54	4 27	5 49	1 37	6 50	0 24	14 17	0 29	22 52	0 31	4 50	2 1	18 34	0 37	2 45	1 40	25 37	7 48	16 40	16 59	11 27	11 3	0 12							
T 5	3 28	25 4	4 55	5 2	1 33	7 21	0 21	14 31	0 29	22 53	0 31	4 47	2 1	18 33	0 37	2 44	1 40	25 37	7 48	16 39	16 58	11 30	11 2	0 12							
F 6	3 4	21 44	5 6	4 15	1 29	7 51	0 19	14 45	0 30	22 53	0 31	4 44	2 2	18 33	0 37	2 43	1 40	25 37	7 48	16 37	16 57	11 33	11 1	0 12							
S 7	2 41	17 3	5 0	3 28	1 24	8 21	0 16	14 59	0 31	22 53	0 31	4 41	2 2	18 32	0 37	2 43	1 40	25 37	7 48	16 34	16 56	11 36	11 0	0 12							
S 8	2 18	11 16	4 35	2 40	1 19	8 51	0 13	15 13	0 31	22 53	0 31	4 38	2 2	18 31	0 37	2 42	1 41	25 38	7 48	16 32	16 55	11 39	10 59	0 12							
M 9	1 55	4 45	3 50	1 53	1 14	9 20	0 10	15 26	0 32	22 54	0 31	4 35	2 2	18 30	0 37	2 42	1 41	25 38	7 48	16 30	16 54	11 42	10 58	0 12							
T 10	1 31	2n 6	2 50	1 6	1 9	9 50	0 7	15 40	0 32	22 54	0 31	4 32	2 2	18 30	0 37	2 41	1 41	25 38	7 48	16 28	16 53	11 45	10 58	0 12							
W 11	1 8	8 52	1 38	0 19	1 3	10 19	0 5	15 53	0 33	22 54	0 31	4 30	2 2	18 29	0 37	2 40	1 41	25 38	7 48	16 27	16 52	11 48	10 57	0 13							
T 12	0 44	15 5	0 19	0s28	0 57	10 48	0 2	16 7	0 34	22 54	0 31	4 27	2 2	18 28	0 37	2 40	1 41	25 38	7 48	16 27	16 51	11 51	10 56	0 13							
F 13	0 21	20 21	1n 0	1 14	0 51	11 17	0s 1	16 20	0 34	22 54	0 31	4 24	2 2	18 27	0 37	2 39	1 41	25 38	7 48	16 27	16 51	11 54	10 55	0 13							
S 14	0s 3	24 17	2 13	2 0	0 45	11 45	0 4	16 33	0 35	22 54	0 31	4 21	2 2	18 27	0 37	2 38	1 41	25 38	7 47	16 27	16 50	11 57	10 54	0 13							
S 15	0 26	26 40	3 17	2 46	0 39	12 14	0 7	16 46	0 36	22 55	0 31	4 18	2 2	18 26	0 37	2 38	1 41	25 38	7 47	16 27	16 49	12 1	10 53	0 13							
M 16	0 50	27 22	4 8	3 32	0 32	12 42	0 10	16 59	0 36	22 55	0 31	4 15	2 2	18 25	0 37	2 37	1 41	25 39	7 47	16 27	16 48	12 4	10 52	0 13							
T 17	1 13	26 27	4 44	4 17	0 25	13 10	0 13	17 12	0 37	22 55	0 31	4 12	2 2	18 25	0 37	2 36	1 41	25 39	7 47	16 27	16 47	12 7	10 51	0 13							
W 18	1 37	24 5	5 5	5 1	0 19	13 37	0 16	17 25	0 37	22 55	0 31	4 9	2 2	18 24	0 37	2 36	1 41	25 39	7 47	16 26	16 46	12 10	10 50	0 13							
T 19	2 0	20 34	5 10	5 46	0 12	14 4	0 19	17 38	0 38	22 55	0 31	4 6	2 2	18 23	0 37	2 35	1 41	25 39	7 47	16 24	16 45	12 13	10 49	0 13							
F 20	2 24	16 11	5 0	6 29	0 5	14 31	0 22	17 50	0 39	22 55	0 30	4 4	2 2	18 23	0 37	2 34	1 41	25 39	7 47	16 22	16 44	12 16	10 48	0 13							
S 21	2 47	11 11	4 35	7 13	0s 2	14 57	0 25	18 3	0 39	22 55	0 30	4 1	2 2	18 22	0 37	2 34	1 41	25 39	7 47	16 20	16 43	12 19	10 47	0 14							
S 22	3 11	5 50	3 59	7 55	0 9	15 24	0 29	18 15	0 40	22 56	0 30	3 58	2 2	18 22	0 37	2 33	1 41	25 39	7 47	16 18	16 42	12 22	10 45	0 14							
M 23	3 34	0 19	3 12	8 38	0 16	15 49	0 32	18 27	0 40	22 56	0 30	3 55	2 3	18 21	0 37	2 32	1 41	25 39	7 46	16 17	16 41	12 25	10 44	0 14							
T 24	3 58	5s10	2 17	9 19	0 23	16 15	0 35	18 39	0 41	22 56	0 30	3 52	2 3	18 20	0 37	2 32	1 41	25 39	7 46	16 15	16 41	12 28	10 43	0 14							
W 25	4 21	10 26	1 17	10 0	0 30	16 40	0 38	18 51	0 41	22 56	0 30	3 49	2 3	18 20	0 37	2 31	1 41	25 39	7 46	16 14	16 40	12 31	10 42	0 14							
T 26	4 44	15 19	0 13	10 41	0 37	17 4	0 41	19 2	0 42	22 56	0 30	3 47	2 3	18 19	0 37	2 30	1 41	25 39	7 46	16 14	16 39	12 34	10 41	0 14							
F 27	5 8	19 38	0s51	11 20	0 44	17 28	0 44	19 14	0 42	22 56	0 30	3 44	2 3	18 19	0 37	2 30	1 41	25 39	7 46	16 14	16 38	12 37	10 40	0 14							
S 28	5 31	23 11	1 54	11 59	0 51	17 52	0 47	19 25	0 43	22 56	0 30	3 41	2 3	18 18	0 37	2 29	1 41	25 39	7 46	16 15	16 37	12 40	10 39	0 14							
S 29	5 54	25 47	2 52	12 38	0 58	18 16	0 50	19 36	0 44	22 56	0 30	3 38	2 3	18 18	0 37	2 28	1 41	25 39	7 46	16 15	16 36	12 43	10 38	0 14							
M 30	6s17	27s14	3s44	13s15	1s 5	18s38	0s53	19s47	0s44	22n56	0s30	3n36	2n 3	18n17	0n37	2n28	1s41	25s39	7s46	16n16	16n35	12s46	10n37	0s14							

ASTRODIENST EPHEMERIS for the year 1538
geocentric

OCTOBER 1538 JC

00:00 UT

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

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	6s40	27s21	4s26	13s52	1s11	19s 1	0s56	19s58	0s45	22n56	0s30	3n33	2n 3	18n17
W 2	7 3	26 4	4 56	14 29	1 18	19 23	0 59	20 9	0 45	22 56	0 30	3 30	2 3	18 16
T 3	7 25	23 21	5 13	15 4	1 25	19 44	1 2	20 20	0 46	22 56	0 30	3 27	2 4	18 16
F 4	7 48	19 17	5 13	15 39	1 31	20 5	1 5	20 30	0 46	22 56	0 30	3 25	2 4	18 15
S 5	8 10	14 2	4 54	16 12	1 37	20 25	1 8	20 40	0 47	22 56	0 30	3 22	2 4	18 15
S 6	8 33	7 51	4 16	16 45	1 44	20 45	1 11	20 50	0 47	22 56	0 30	3 19	2 4	18 14
M 7	8 55	1 5	3 21	17 17	1 50	21 5	1 14	21 0	0 48	22 56	0 30	3 17	2 4	18 14
T 8	9 17	5n53	2 10	17 49	1 55	21 23	1 17	21 10	0 48	22 56	0 30	3 14	2 4	18 13
W 9	9 39	12 33	0 50	18 19	2 1	21 42	1 20	21 19	0 49	22 56	0 30	3 11	2 4	18 13
T 10	10 1	18 28	0n34	18 48	2 6	21 59	1 23	21 28	0 49	22 56	0 30	3 9	2 4	18 13
F 11	10 23	23 8	1 54	19 16	2 12	22 16	1 26	21 37	0 50	22 56	0 30	3 6	2 5	18 12
S 12	10 45	26 12	3 5	19 43	2 17	22 33	1 28	21 46	0 50	22 56	0 30	3 4	2 5	18 12
S 13	11 6	27 28	4 2	20 9	2 21	22 49	1 31	21 55	0 51	22 56	0 30	3 1	2 5	18 12
M14	11 27	26 59	4 44	20 34	2 26	23 4	1 34	22 4	0 51	22 56	0 30	2 59	2 5	18 11
T 15	11 48	24 55	5 9	20 58	2 30	23 18	1 36	22 12	0 51	22 56	0 30	2 56	2 5	18 11
W16	12 9	21 37	5 17	21 21	2 33	23 32	1 39	22 20	0 52	22 56	0 30	2 53	2 5	18 11
T 17	12 30	17 22	5 9	21 42	2 37	23 46	1 42	22 28	0 52	22 56	0 30	2 51	2 5	18 10
F 18	12 50	12 30	4 47	22 2	2 40	23 58	1 44	22 35	0 53	22 56	0 30	2 49	2 6	18 10
S 19	13 11	7 13	4 13	22 20	2 42	24 10	1 46	22 43	0 53	22 56	0 30	2 46	2 6	18 10
S 20	13 31	1 44	3 27	22 37	2 44	24 22	1 49	22 50	0 54	22 56	0 29	2 44	2 6	18 10
M21	13 51	3s46	2 33	22 53	2 46	24 32	1 51	22 57	0 54	22 56	0 29	2 41	2 6	18 9
T 22	14 10	9 6	1 33	23 7	2 47	24 42	1 54	23 4	0 54	22 56	0 29	2 39	2 6	18 9
W23	14 30	14 7	0 29	23 19	2 47	24 51	1 56	23 10	0 55	22 56	0 29	2 37	2 6	18 9
T 24	14 49	18 37	0s37	23 30	2 46	25 0	1 58	23 17	0 55	22 56	0 29	2 34	2 7	18 9
F 25	15 8	22 25	1 41	23 39	2 45	25 8	2 0	23 23	0 56	22 56	0 29	2 32	2 7	18 9
S 26	15 27	25 17	2 41	23 46	2 43	25 15	2 2	23 29	0 56	22 56	0 29	2 30	2 7	18 8
S 27	15 45	27 2	3 35	23 50	2 40	25 21	2 4	23 34	0 56	22 56	0 29	2 27	2 7	18 8
M28	16 4	27 31	4 19	23 53	2 36	25 27	2 6	23 40	0 57	22 56	0 29	2 25	2 7	18 8
T 29	16 21	26 38	4 53	23 53	2 31	25 32	2 8	23 45	0 57	22 56	0 29	2 23	2 8	18 8
W30	16 39	24 23	5 13	23 51	2 24	25 36	2 10	23 50	0 57	22 55	0 29	2 21	2 8	18 8
T 31	16s56	20s50	5s18	23s46	2s16	25s40	2s11	23s54	0s58	22n55	0s29	2n19	2n 8	18n 8

Julian Day Number = 2283085.5, Delta T = 204.72 sec

Ecliptic obliquity = 23°30'04, Nutation = - 0°00'13, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°18'15, Lahiri = 17°25'15 Julian Calendar 1 Oct. 1538 == Greg. Calendar 11 Oct. 1538

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 ¹⁹ 6	28 ²⁸ 32	18 ²⁸ 35	24 ²⁴ R48	29 ²⁹ 12	11 ¹¹ Ω 1	9 ⁹ R18	8 ⁸ ≈35	14 ¹⁴ Ω18	14 ¹⁴ Ω 0	9 ⁹ 137	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 Ω16	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 Ω49	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 ²⁹ 136	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 Ω20	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 ⁶ 116	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 ≈33	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 ≈45	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 ⁶ 113	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 ≈56	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 ≈55	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 ²⁶ 117	2≈30	10 ¹⁰ ≈47	21 ²¹ II25	1 ¹ ≈27	10 ¹⁰ ≈48	8 ⁸ Y54	9≈ 1	13 ¹³ ≈50	12 ¹² ≈28	12 ¹² ≈50	25 ²⁵ Y29	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	17s14	16s 7	5s 6	23s39	2s 7	25s42	2s13	23s59	0s58	22n55	0s29	2n17	2n 8	18n 8	0n39	2n 9	1s40	25s34	7s41	16n10	16n 5	14s21	10n 0	0s17			
S 2	17 30	10 28	4 36	23 28	1 57	25 44	2 14	24 3	0 59	22 55	0 29	2 15	2 8	18 8	0 39	2 9	1 40	25 34	7 41	16 10	16 4	14 24	9 59	0 17			
S 3	17 47	4 6	3 48	23 14	1 45	25 46	2 16	24 6	0 59	22 55	0 29	2 12	2 9	18 8	0 39	2 9	1 40	25 33	7 41	16 11	16 3	14 27	9 58	0 17			
M 4	18 3	2n40	2 45	22 57	1 31	25 46	2 17	24 10	0 59	22 55	0 29	2 10	2 9	18 8	0 39	2 8	1 40	25 33	7 41	16 11	16 2	14 30	9 57	0 17			
T 5	18 19	9 26	1 29	22 37	1 16	25 46	2 18	24 13	1 0	22 55	0 28	2 8	2 9	18 8	0 39	2 8	1 40	25 33	7 40	16 11	16 1	14 33	9 56	0 18			
W 6	18 34	15 46	0 6	22 13	0 59	25 45	2 20	24 17	1 0	22 54	0 28	2 6	2 9	18 8	0 39	2 7	1 40	25 32	7 40	16 11	16 0	14 36	9 55	0 18			
T 7	18 49	21 8	1n18	21 45	0 41	25 43	2 21	24 19	1 0	22 54	0 28	2 5	2 9	18 8	0 39	2 7	1 40	25 32	7 40	16 11	15 59	14 39	9 54	0 18			
F 8	19 4	25 3	2 35	21 15	0 22	25 41	2 22	24 22	1 0	22 54	0 28	2 3	2 10	18 8	0 39	2 7	1 40	25 32	7 40	16 11	15 58	14 42	9 53	0 18			
S 9	19 19	27 10	3 41	20 41	0 2	25 38	2 23	24 24	1 1	22 54	0 28	2 1	2 10	18 8	0 39	2 6	1 40	25 31	7 40	16 10	15 57	14 45	9 52	0 18			
S 10	19 33	27 22	4 31	20 5	0n19	25 34	2 23	24 26	1 1	22 54	0 28	1 59	2 10	18 8	0 39	2 6	1 40	25 31	7 40	16 10	15 56	14 48	9 51	0 18			
M11	19 47	25 47	5 2	19 28	0 39	25 29	2 24	24 28	1 1	22 53	0 28	1 57	2 10	18 8	0 39	2 5	1 40	25 31	7 40	16 9	15 56	14 51	9 50	0 18			
T 12	20 0	22 46	5 16	18 51	0 59	25 24	2 25	24 29	1 2	22 53	0 28	1 55	2 10	18 8	0 39	2 5	1 40	25 30	7 40	16 9	15 55	14 54	9 49	0 18			
W13	20 13	18 40	5 13	18 14	1 18	25 18	2 25	24 31	1 2	22 53	0 28	1 53	2 11	18 8	0 39	2 5	1 40	25 30	7 39	16 9	15 54	14 57	9 48	0 18			
T 14	20 26	13 51	4 54	17 39	1 36	25 11	2 26	24 32	1 2	22 53	0 28	1 52	2 11	18 8	0 39	2 5	1 40	25 30	7 39	16 9	15 53	15 0	9 47	0 18			
F 15	20 38	8 36	4 22	17 7	1 52	25 4	2 26	24 32	1 2	22 53	0 28	1 50	2 11	18 9	0 39	2 4	1 40	25 29	7 39	16 9	15 52	15 2	9 46	0 18			
S 16	20 50	3 8	3 39	16 39	2 5	24 56	2 26	24 33	1 3	22 52	0 27	1 48	2 11	18 9	0 39	2 4	1 40	25 29	7 39	16 9	15 51	15 5	9 45	0 18			
S 17	21 2	2s22	2 47	16 14	2 17	24 47	2 26	24 33	1 3	22 52	0 27	1 47	2 12	18 9	0 39	2 4	1 40	25 29	7 39	16 10	15 50	15 8	9 45	0 18			
M18	21 13	7 45	1 49	15 55	2 26	24 37	2 26	24 33	1 3	22 52	0 27	1 45	2 12	18 9	0 39	2 3	1 39	25 28	7 39	16 10	15 49	15 11	9 44	0 19			
T 19	21 24	12 52	0 46	15 40	2 33	24 27	2 26	24 32	1 3	22 51	0 27	1 44	2 12	18 9	0 40	2 3	1 39	25 28	7 39	16 11	15 48	15 14	9 43	0 19			
W20	21 34	17 30	0s19	15 31	2 38	24 16	2 26	24 32	1 4	22 51	0 27	1 42	2 12	18 10	0 40	2 3	1 39	25 27	7 39	16 11	15 47	15 17	9 42	0 19			
T 21	21 44	21 30	1 24	15 26	2 42	24 4	2 26	24 31	1 4	22 51	0 27	1 41	2 13	18 10	0 40	2 3	1 39	25 27	7 38	16 10	15 46	15 20	9 41	0 19			
F 22	21 53	24 38	2 25	15 25	2 43	23 52	2 25	24 29	1 4	22 51	0 27	1 39	2 13	18 10	0 40	2 2	1 39	25 27	7 38	16 10	15 45	15 23	9 40	0 19			
S 23	22 3	26 41	3 20	15 28	2 43	23 39	2 24	24 28	1 4	22 50	0 27	1 38	2 13	18 10	0 40	2 2	1 39	25 26	7 38	16 9	15 44	15 26	9 40	0 19			
S 24	22 11	27 28	4 6	15 35	2 42	23 26	2 24	24 26	1 4	22 50	0 26	1 36	2 13	18 11	0 40	2 2	1 39	25 26	7 38	16 7	15 43	15 28	9 39	0 19			
M25	22 19	26 54	4 42	15 45	2 39	23 12	2 23	24 24	1 5	22 50	0 26	1 35	2 14	18 11	0 40	2 2	1 39	25 25	7 38	16 6	15 42	15 31	9 38	0 19			
T 26	22 27	24 58	5 5	15 58	2 36	22 57	2 22	24 21	1 5	22 49	0 26	1 34	2 14	18 11	0 40	2 2	1 39	25 25	7 38	16 4	15 41	15 34	9 37	0 19			
W27	22 35	21 44	5 13	16 13	2 32	22 42	2 21	24 19	1 5	22 49	0 26	1 32	2 14	18 12	0 40	2 2	1 39	25 25	7 38	16 3	15 40	15 37	9 37	0 19			
T 28	22 41	17 23	5 5	16 30	2 26	22 26	2 20	24 16	1 5	22 48	0 26	1 31	2 14	18 12	0 40	2 1	1 39	25 24	7 38	16 2	15 39	15 40	9 36	0 19			
F 29	22 48	12 6	4 41	16 49	2 21	22 10	2 18	24 13	1 5	22 48	0 26	1 30	2 15	18 12	0 40	2 1	1 39	25 24	7 38	16 2	15 38	15 43	9 35	0 19			
S 30	22s54	6s 8	4s 0	17s 9	2n15	21s52	2s17	24s 9	1s 5	22n48	0s26	1n29	2n15	18n13	0n40	2n 1	1s39	25s23	7s38	16n 2	15n37	15s46	9n35	0s19			

ASTRODIENST EPHEMERIS for the year 1538
geocentric

DECEMBER 1538 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 15 43	18°22'57	7°49	27°9	3°38	11°33	21°R17	1°30	10°R47	8°R53	9°3	13°51	12°25	12°57	25°R28	S 1
M 2	5 19 40	19°24'03	22° 7	28°16	4°46	12°20	21°II 8	1°34	10°R45	8°Y53	9° 4	13°52	12°22	13° 3	25°Y26	M 2
T 3	5 23 36	20°25'09	6°843	29°25	5°54	13° 6	21° 0	1°37	10°44	8°53	9° 5	13°R53	12°19	13°10	25°25	T 3
W 4	5 27 33	21°26'15	21°33	0°37	7° 2	13°53	20°52	1°40	10°43	8°53	9° 6	13°53	12°16	13°17	25°23	W 4
T 5	5 31 29	22°27'21	6°II30	1°51	8°10	14°40	20°44	1°43	10°41	8°52	9° 8	13°51	12°12	13°23	25°22	T 5
F 6	5 35 26	23°28'28	21°26	3° 7	9°18	15°27	20°36	1°46	10°40	8°52	9° 9	13°48	12° 9	13°30	25°21	F 6
S 7	5 39 22	24°29'36	6°13	4°25	10°25	16°13	20°28	1°49	10°38	8°52	9°10	13°42	12° 6	13°37	25°20	S 7
S 8	5 43 19	25°30'43	20°43	5°44	11°32	17° 0	20°20	1°52	10°37	8°52	9°12	13°35	12° 3	13°43	25°18	S 8
M 9	5 47 16	26°31'52	4°49	7° 5	12°39	17°47	20°11	1°54	10°35	8°52	9°13	13°28	12° 0	13°50	25°17	M 9
T 10	5 51 12	27°33'00	18°29	8°27	13°46	18°34	20° 3	1°57	10°33	8°52	9°15	13°21	11°57	13°56	25°16	T 10
W11	5 55 9	28°34'10	1°41	9°50	14°53	19°21	19°55	1°59	10°32	8°D52	9°16	13°16	11°53	14° 3	25°15	W11
T 12	5 59 5	29°35'19	14°27	11°14	15°59	20° 8	19°48	2° 1	10°30	8°52	9°17	13°13	11°50	14°10	25°14	T 12
F 13	6 3 2	0°36'29	26°51	12°39	17° 5	20°55	19°40	2° 4	10°28	8°52	9°19	13°D12	11°47	14°16	25°14	F 13
S 14	6 6 58	1°37'40	8°58	14° 5	18°11	21°42	19°32	2° 6	10°26	8°52	9°20	13°12	11°44	14°23	25°13	S 14
S 15	6 10 55	2°38'51	20°52	15°31	19°17	22°29	19°24	2° 8	10°24	8°52	9°22	13°13	11°41	14°30	25°12	S 15
M16	6 14 51	3°40'02	2°40	16°58	20°22	23°16	19°16	2°10	10°23	8°52	9°23	13°14	11°38	14°36	25°11	M16
T 17	6 18 48	4°41'14	14°26	18°26	21°27	24° 3	19° 9	2°11	10°21	8°52	9°25	13°R15	11°34	14°43	25°11	T 17
W18	6 22 45	5°42'26	26°15	19°54	22°32	24°50	19° 1	2°13	10°19	8°53	9°27	13°14	11°31	14°50	25°10	W18
T 19	6 26 41	6°43'38	8°11	21°23	23°36	25°37	18°54	2°15	10°17	8°53	9°28	13°10	11°28	14°56	25°10	T 19
F 20	6 30 38	7°44'50	20°16	22°52	24°41	26°24	18°46	2°16	10°15	8°53	9°30	13° 4	11°25	15° 3	25° 9	F 20
S 21	6 34 34	8°46'02	2°33	24°22	25°45	27°12	18°39	2°17	10°12	8°54	9°31	12°56	11°22	15°10	25° 9	S 21
S 22	6 38 31	9°47'14	15° 3	25°52	26°48	27°59	18°32	2°19	10°10	8°54	9°33	12°46	11°18	15°16	25° 9	S 22
M23	6 42 27	10°48'26	27°46	27°23	27°52	28°46	18°25	2°20	10° 8	8°54	9°35	12°35	11°15	15°23	25° 9	M23
T 24	6 46 24	11°49'37	10°41	28°54	28°54	29°33	18°18	2°21	10° 6	8°55	9°36	12°24	11°12	15°30	25° 8	T 24
W25	6 50 21	12°50'48	23°49	0°26	29°57	0°20	18°11	2°22	10° 4	8°55	9°38	12°14	11° 9	15°36	25° 8	W25
T 26	6 54 17	13°51'59	7°8	1°58	0°59	1° 8	18° 5	2°23	10° 2	8°56	9°39	12° 6	11° 6	15°43	25°D 8	T 26
F 27	6 58 14	14°53'08	20°38	3°30	2° 1	1°55	17°58	2°23	9°59	8°56	9°41	12° 1	11° 3	15°49	25° 8	F 27
S 28	7 2 10	15°54'18	4°Y19	5° 3	3° 3	2°42	17°52	2°24	9°57	8°57	9°43	11°58	10°59	15°56	25° 8	S 28
S 29	7 6 7	16°55'26	18°12	6°37	4° 4	3°30	17°45	2°25	9°55	8°57	9°44	11°D57	10°56	16° 3	25° 8	S 29
M30	7 10 3	17°56'34	2°15	8°11	5° 4	4°17	17°39	2°25	9°52	8°58	9°46	11°58	10°53	16° 9	25° 9	M30
T 31	7 14 0	18°57'41	16°30	9°345	6°X 4	5°4	17°II33	2°25	9°50	8°Y59	9°48	11°R58	10°50	16°16	25°Y 9	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	23s 0	0n17 3s 4	17s30 2n 8	21s35 2s15	24s 5 1s 6	22n47 0s26	1n28 2n15	18n13 0n40	2n 1 1s39	25s23 7s37	16n 2 15n36	15s49 9n34	0s20			
M 2	23 5	6 51 1 56	17 51 2 1	21 17 2 14	24 1 1 6	22 47 0 25	1 27 2 15	18 13 0 40	2 1 1 39	25 22 7 37	16 3 15 35	15 51 9 33	0 20			
T 3	23 9	13 11 0 39	18 13 1 54	20 58 2 12	23 57 1 6	22 46 0 25	1 26 2 16	18 14 0 40	2 1 1 39	25 22 7 37	16 3 15 34	15 54 9 33	0 20			
W 4	23 13	18 52 0n42	18 36 1 47	20 39 2 10	23 52 1 6	22 46 0 25	1 25 2 16	18 14 0 40	2 1 1 39	25 22 7 37	16 3 15 33	15 57 9 32	0 20			
T 5	23 17	23 25 2 0	18 58 1 39	20 19 2 8	23 47 1 6	22 46 0 25	1 24 2 16	18 15 0 40	2 1 1 39	25 21 7 37	16 2 15 32	16 0 9 32	0 20			
F 6	23 20	26 23 3 10	19 21 1 31	19 59 2 5	23 42 1 6	22 45 0 25	1 23 2 16	18 15 0 40	2 1 1 39	25 21 7 37	16 1 15 31	16 3 9 31	0 20			
S 7	23 23	27 27 4 6	19 43 1 23	19 39 2 3	23 37 1 6	22 45 0 25	1 22 2 17	18 15 0 40	2 1 1 39	25 20 7 37	15 59 15 30	16 6 9 31	0 20			
S 8	23 25	26 36 4 45	20 5 1 15	19 18 2 0	23 31 1 6	22 44 0 25	1 21 2 17	18 16 0 40	2 1 1 39	25 20 7 37	15 57 15 29	16 8 9 30	0 20			
M 9	23 27	24 3 5 6	20 26 1 7	18 56 1 58	23 25 1 7	22 44 0 24	1 20 2 17	18 16 0 40	2 1 1 38	25 19 7 37	15 55 15 28	16 11 9 30	0 20			
T 10	23 29	20 12 5 8	20 48 0 59	18 34 1 55	23 19 1 7	22 43 0 24	1 20 2 18	18 17 0 40	2 1 1 38	25 19 7 37	15 53 15 27	16 14 9 29	0 20			
W11	23 30	15 28 4 54	21 8 0 52	18 12 1 52	23 12 1 7	22 43 0 24	1 19 2 18	18 17 0 40	2 1 1 38	25 18 7 37	15 52 15 27	16 17 9 29	0 20			
T 12	23 30	10 12 4 25	21 28 0 44	17 49 1 49	23 5 1 7	22 43 0 24	1 18 2 18	18 18 0 40	2 1 1 38	25 18 7 37	15 51 15 26	16 20 9 29	0 20			
F 13	23 30	4 41 3 44	21 47 0 36	17 26 1 46	22 58 1 7	22 42 0 24	1 18 2 18	18 18 0 40	2 1 1 38	25 17 7 36	15 50 15 25	16 23 9 28	0 20			
S 14	23 29	0s53 2 55	22 5 0 28	17 2 1 42	22 51 1 7	22 42 0 24	1 17 2 19	18 19 0 40	2 1 1 38	25 17 7 36	15 50 15 24	16 25 9 28	0 20			
S 15	23 28	6 21 1 58	22 23 0 20	16 39 1 39	22 43 1 7	22 41 0 23	1 17 2 19	18 20 0 40	2 1 1 38	25 16 7 36	15 51 15 23	16 28 9 27	0 21			
M16	23 27	11 32 0 57	22 39 0 13	16 14 1 35	22 35 1 7	22 41 0 23	1 16 2 19	18 20 0 40	2 1 1 38	25 16 7 36	15 51 15 22	16 31 9 27	0 21			
T 17	23 25	16 19 0s 6	22 55 0 5	15 50 1 31	22 27 1 7	22 40 0 23	1 16 2 20	18 21 0 41	2 1 1 38	25 16 7 36	15 51 15 21	16 34 9 27	0 21			
W18	23 23	20 29 1 10	23 9 0s 2	15 25 1 28	22 19 1 7	22 40 0 23	1 15 2 20	18 21 0 41	2 2 1 38	25 15 7 36	15 51 15 20	16 37 9 27	0 21			
T 19	23 20	23 52 2 10	23 23 0 10	15 0 1 23	22 10 1 7	22 39 0 23	1 15 2 20	18 22 0 41	2 2 1 38	25 15 7 36	15 50 15 19	16 39 9 26	0 21			
F 20	23 16	26 13 3 5	23 35 0 17	14 34 1 19	22 1 1 7	22 39 0 23	1 14 2 20	18 22 0 41	2 2 1 38	25 14 7 36	15 48 15 18	16 42 9 26	0 21			
S 21	23 13	27 21 3 53	23 47 0 24	14 9 1 15	21 52 1 7	22 39 0 22	1 14 2 21	18 23 0 41	2 2 1 38	25 14 7 36	15 46 15 17	16 45 9 26	0 21			
S 22	23 8	27 7 4 30	23 57 0 31	13 43 1 10	21 43 1 7	22 38 0 22	1 14 2 21	18 24 0 41	2 2 1 38	25 13 7 36	15 43 15 16	16 48 9 26	0 21			
M23	23 4	25 28 4 54	24 6 0 37	13 17 1 6	21 33 1 7	22 38 0 22	1 14 2 21	18 24 0 41	2 3 1 38	25 13 7 36	15 39 15 15	16 51 9 26	0 21			
T 24	22 58	22 28 5 4	24 14 0 44	12 50 1 1	21 23 1 7	22 37 0 22	1 14 2 22	18 25 0 41	2 3 1 38	25 12 7 36	15 36 15 14	16 53 9 26	0 21			
W25	22 53	18 18 4 58	24 20 0 50	12 23 0 56	21 13 1 7	22 37 0 22	1 14 2 22	18 25 0 41	2 3 1 38	25 12 7 36	15 33 15 13	16 56 9 25	0 21			
T 26	22 47	13 11 4 36	24 25 0 56	11 57 0 51	21 3 1 7	22 36 0 22	1 13 2 22	18 26 0 41	2 3 1 38	25 11 7 36	15 30 15 12	16 59 9 25	0 21			
F 27	22 40	7 22 3 58	24 29 1 2	11 30 0 46	20 52 1 7	22 36 0 21	1 13 2 22	18 27 0 41	2 3 1 38	25 11 7 36	15 29 15 11	17 2 9 25	0 21			
S 28	22 33	1 8 3 7	24 32 1 8	11 2 0 40	20 42 1 7	22 36 0 21	1 13 2 23	18 27 0 41	2 4 1 37	25 10 7 36	15 28 15 10	17 5 9 25	0 21			
S 29	22 26	5n15 2 3	24 33 1 13	10 35 0 35	20 30 1 7	22 35 0 21	1 14 2 23	18 28 0 41	2 4 1 37	25 10 7 36	15 28 15 9	17 7 9 25	0 21			
M30	22 18	11 29 0 52	24 33 1 19	10 7 0 29	20 19 1 7	22 35 0 21	1 14 2 23	18 29 0 41	2 4 1 37	25 9 7 36	15 28 15 8	17 10 9 25	0 21			
T 31	22s 9	17n12 0n24	24s32 1s24	9s40 0s23	20s 8 1s 7	22n34 0s21	1n14 2n24	18n29 0n41	2n 5 1s37	25s 9 7s36	15n28 15n 7	17s13 9n25	0s22			

Julian Day Number = 2283146.5, Delta T = 204.34 sec
Ecliptic obliquity = 23°30'04, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°18'23, Lahiri = 17°25'24 Julian Calendar 1 Dec. 1538 == Greg. Calendar 11 Dec. 1538