



# Astrodienst Ephemeris Tables for the year 2052

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 2052  
geocentric

JANUARY 2052

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	6 41 29	10 <sup>3</sup> 15'00	27 <sup>2</sup> 11	24 <sup>2</sup> 52	16 <sup>2</sup> 45	1 <sup>2</sup> 50	5 <sup>2</sup> 32	18 <sup>2</sup> 12	0 <sup>2</sup> 20	28 <sup>2</sup> R11	10 <sup>2</sup> 4	20 <sup>2</sup> R 1	19 <sup>2</sup> 19	9 <sup>2</sup> 11	28 <sup>2</sup> 18	M 1
T 2	6 45 25	11 <sup>2</sup> 16'10	9 <sup>2</sup> 34	26 <sup>2</sup> 21	17 <sup>2</sup> 58	2 <sup>2</sup> 31	5 <sup>2</sup> 36	18 <sup>2</sup> 18	0 <sup>2</sup> 20	28 <sup>2</sup> 10	10 <sup>2</sup> 5	19 <sup>2</sup> 47	19 <sup>2</sup> 16	9 <sup>2</sup> 13	28 <sup>2</sup> 24	T 2
W 3	6 49 22	12 <sup>2</sup> 17'21	22 <sup>2</sup> 34	27 <sup>2</sup> 51	19 <sup>2</sup> 11	3 <sup>2</sup> 12	5 <sup>2</sup> 39	18 <sup>2</sup> 25	0 <sup>2</sup> 20	28 <sup>2</sup> 9	10 <sup>2</sup> 6	19 <sup>2</sup> 33	19 <sup>2</sup> 13	9 <sup>2</sup> 20	28 <sup>2</sup> 31	W 3
T 4	6 53 18	13 <sup>2</sup> 18'31	5 <sup>2</sup> 36	29 <sup>2</sup> 21	20 <sup>2</sup> 24	3 <sup>2</sup> 53	5 <sup>2</sup> 43	18 <sup>2</sup> 31	0 <sup>2</sup> 20	28 <sup>2</sup> 8	10 <sup>2</sup> 7	19 <sup>2</sup> 20	19 <sup>2</sup> 10	9 <sup>2</sup> 27	28 <sup>2</sup> 37	T 4
F 5	6 57 15	14 <sup>2</sup> 19'42	18 <sup>2</sup> 49	0 <sup>2</sup> 51	21 <sup>2</sup> 37	4 <sup>2</sup> 34	5 <sup>2</sup> 46	18 <sup>2</sup> 37	0 <sup>2</sup> R20	28 <sup>2</sup> 7	10 <sup>2</sup> 8	19 <sup>2</sup> 8	19 <sup>2</sup> 7	9 <sup>2</sup> 33	28 <sup>2</sup> 44	F 5
S 6	7 1 11	15 <sup>2</sup> 20'52	2 <sup>2</sup> 12	2 <sup>2</sup> 22	22 <sup>2</sup> 49	5 <sup>2</sup> 15	5 <sup>2</sup> 49	18 <sup>2</sup> 44	0 <sup>2</sup> 20	28 <sup>2</sup> 6	10 <sup>2</sup> 9	19 <sup>2</sup> 0	19 <sup>2</sup> 3	9 <sup>2</sup> 40	28 <sup>2</sup> 50	S 6
S 7	7 5 8	16 <sup>2</sup> 22'02	15 <sup>2</sup> 45	3 <sup>2</sup> 53	24 <sup>2</sup> 2	5 <sup>2</sup> 56	5 <sup>2</sup> 51	18 <sup>2</sup> 50	0 <sup>2</sup> 20	28 <sup>2</sup> 5	10 <sup>2</sup> 10	18 <sup>2</sup> 55	19 <sup>2</sup> 0	9 <sup>2</sup> 47	28 <sup>2</sup> 57	S 7
M 8	7 9 5	17 <sup>2</sup> 23'12	29 <sup>2</sup> 27	5 <sup>2</sup> 25	25 <sup>2</sup> 15	6 <sup>2</sup> 37	5 <sup>2</sup> 54	18 <sup>2</sup> 57	0 <sup>2</sup> 20	28 <sup>2</sup> 4	10 <sup>2</sup> 11	18 <sup>2</sup> 52	18 <sup>2</sup> 57	9 <sup>2</sup> 53	29 <sup>2</sup> 3	M 8
T 9	7 13 1	18 <sup>2</sup> 24'21	13 <sup>2</sup> 18	6 <sup>2</sup> 57	26 <sup>2</sup> 27	7 <sup>2</sup> 18	5 <sup>2</sup> 56	19 <sup>2</sup> 3	0 <sup>2</sup> 20	28 <sup>2</sup> 3	10 <sup>2</sup> 12	18 <sup>2</sup> 52	18 <sup>2</sup> 54	10 <sup>2</sup> 0	29 <sup>2</sup> 10	T 9
W10	7 16 58	19 <sup>2</sup> 25'30	27 <sup>2</sup> 19	8 <sup>2</sup> 30	27 <sup>2</sup> 40	7 <sup>2</sup> 59	5 <sup>2</sup> 58	19 <sup>2</sup> 10	0 <sup>2</sup> 20	28 <sup>2</sup> 2	10 <sup>2</sup> 13	18 <sup>2</sup> 52	18 <sup>2</sup> 51	10 <sup>2</sup> 6	29 <sup>2</sup> 16	W10
T 11	7 20 54	20 <sup>2</sup> 26'38	11 <sup>2</sup> 30	10 <sup>2</sup> 3	28 <sup>2</sup> 53	8 <sup>2</sup> 40	6 <sup>2</sup> 0	19 <sup>2</sup> 17	0 <sup>2</sup> 19	28 <sup>2</sup> 1	10 <sup>2</sup> 14	18 <sup>2</sup> 51	18 <sup>2</sup> 48	10 <sup>2</sup> 13	29 <sup>2</sup> 23	T 11
F 12	7 24 51	21 <sup>2</sup> 27'46	25 <sup>2</sup> 48	11 <sup>2</sup> 36	0 <sup>2</sup> 11	9 <sup>2</sup> 21	6 <sup>2</sup> 2	19 <sup>2</sup> 23	0 <sup>2</sup> 19	28 <sup>2</sup> 0	10 <sup>2</sup> 16	18 <sup>2</sup> 48	18 <sup>2</sup> 44	10 <sup>2</sup> 20	29 <sup>2</sup> 29	F 12
S 13	7 28 47	22 <sup>2</sup> 28'53	10 <sup>2</sup> 12	13 <sup>2</sup> 10	1 <sup>2</sup> 17	10 <sup>2</sup> 3	6 <sup>2</sup> 3	19 <sup>2</sup> 30	0 <sup>2</sup> 19	27 <sup>2</sup> 59	10 <sup>2</sup> 17	18 <sup>2</sup> 42	18 <sup>2</sup> 41	10 <sup>2</sup> 26	29 <sup>2</sup> 35	S 13
S 14	7 32 44	23 <sup>2</sup> 30'00	24 <sup>2</sup> 37	14 <sup>2</sup> 44	2 <sup>2</sup> 30	10 <sup>2</sup> 44	6 <sup>2</sup> 5	19 <sup>2</sup> 37	0 <sup>2</sup> 18	27 <sup>2</sup> 59	10 <sup>2</sup> 18	18 <sup>2</sup> 33	18 <sup>2</sup> 38	10 <sup>2</sup> 33	29 <sup>2</sup> 42	S 14
M15	7 36 40	24 <sup>2</sup> 31'06	8 <sup>2</sup> 58	16 <sup>2</sup> 19	3 <sup>2</sup> 42	11 <sup>2</sup> 25	6 <sup>2</sup> 6	19 <sup>2</sup> 43	0 <sup>2</sup> 17	27 <sup>2</sup> 58	10 <sup>2</sup> 19	18 <sup>2</sup> 22	18 <sup>2</sup> 35	10 <sup>2</sup> 40	29 <sup>2</sup> 48	M15
T 16	7 40 37	25 <sup>2</sup> 32'11	23 <sup>2</sup> 9	17 <sup>2</sup> 54	4 <sup>2</sup> 54	12 <sup>2</sup> 6	6 <sup>2</sup> 7	19 <sup>2</sup> 50	0 <sup>2</sup> 17	27 <sup>2</sup> 57	10 <sup>2</sup> 20	18 <sup>2</sup> 9	18 <sup>2</sup> 32	10 <sup>2</sup> 46	29 <sup>2</sup> 54	T 16
W17	7 44 34	26 <sup>2</sup> 33'17	7 <sup>2</sup> 11	19 <sup>2</sup> 29	6 <sup>2</sup> 6	12 <sup>2</sup> 47	6 <sup>2</sup> 8	19 <sup>2</sup> 57	0 <sup>2</sup> 16	27 <sup>2</sup> 56	10 <sup>2</sup> 22	17 <sup>2</sup> 57	18 <sup>2</sup> 29	10 <sup>2</sup> 53	0 <sup>2</sup> 0	W17
T 18	7 48 30	27 <sup>2</sup> 34'21	20 <sup>2</sup> 37	21 <sup>2</sup> 6	7 <sup>2</sup> 18	13 <sup>2</sup> 29	6 <sup>2</sup> 9	20 <sup>2</sup> 4	0 <sup>2</sup> 16	27 <sup>2</sup> 56	10 <sup>2</sup> 23	17 <sup>2</sup> 45	18 <sup>2</sup> 25	11 <sup>2</sup> 0	0 <sup>2</sup> 7	T 18
F 19	7 52 27	28 <sup>2</sup> 35'26	3 <sup>2</sup> 11	22 <sup>2</sup> 42	8 <sup>2</sup> 30	14 <sup>2</sup> 10	6 <sup>2</sup> 9	20 <sup>2</sup> 11	0 <sup>2</sup> 15	27 <sup>2</sup> 55	10 <sup>2</sup> 24	17 <sup>2</sup> 36	18 <sup>2</sup> 22	11 <sup>2</sup> 6	0 <sup>2</sup> 13	F 19
S 20	7 56 23	29 <sup>2</sup> 36'30	16 <sup>2</sup> 36	24 <sup>2</sup> 19	9 <sup>2</sup> 41	14 <sup>2</sup> 51	6 <sup>2</sup> 9	20 <sup>2</sup> 18	0 <sup>2</sup> 14	27 <sup>2</sup> 54	10 <sup>2</sup> 25	17 <sup>2</sup> 30	18 <sup>2</sup> 19	11 <sup>2</sup> 13	0 <sup>2</sup> 19	S 20
S 21	8 0 20	0 <sup>2</sup> 37'33	29 <sup>2</sup> 3	25 <sup>2</sup> 57	10 <sup>2</sup> 53	15 <sup>2</sup> 33	6 <sup>2</sup> R 9	20 <sup>2</sup> 25	0 <sup>2</sup> 13	27 <sup>2</sup> 54	10 <sup>2</sup> 27	17 <sup>2</sup> 26	18 <sup>2</sup> 16	11 <sup>2</sup> 20	0 <sup>2</sup> 25	S 21
M22	8 4 16	1 <sup>2</sup> 38'36	11 <sup>2</sup> 13	27 <sup>2</sup> 36	12 <sup>2</sup> 5	16 <sup>2</sup> 14	6 <sup>2</sup> 9	20 <sup>2</sup> 32	0 <sup>2</sup> 12	27 <sup>2</sup> 53	10 <sup>2</sup> 28	17 <sup>2</sup> 25	18 <sup>2</sup> 13	11 <sup>2</sup> 26	0 <sup>2</sup> 31	M22
T 23	8 8 13	2 <sup>2</sup> 39'39	23 <sup>2</sup> 10	29 <sup>2</sup> 14	13 <sup>2</sup> 16	16 <sup>2</sup> 56	6 <sup>2</sup> 9	20 <sup>2</sup> 39	0 <sup>2</sup> 11	27 <sup>2</sup> 53	10 <sup>2</sup> 29	17 <sup>2</sup> D25	18 <sup>2</sup> 9	11 <sup>2</sup> 33	0 <sup>2</sup> 37	T 23
W24	8 12 9	3 <sup>2</sup> 40'41	5 <sup>2</sup> 11	0 <sup>2</sup> 54	14 <sup>2</sup> 27	17 <sup>2</sup> 37	6 <sup>2</sup> 8	20 <sup>2</sup> 46	0 <sup>2</sup> 10	27 <sup>2</sup> 52	10 <sup>2</sup> 31	17 <sup>2</sup> R25	18 <sup>2</sup> 6	11 <sup>2</sup> 40	0 <sup>2</sup> 43	W24
T 25	8 16 6	4 <sup>2</sup> 41'43	16 <sup>2</sup> 48	2 <sup>2</sup> 34	15 <sup>2</sup> 39	18 <sup>2</sup> 18	6 <sup>2</sup> 8	20 <sup>2</sup> 53	0 <sup>2</sup> 9	27 <sup>2</sup> 52	10 <sup>2</sup> 32	17 <sup>2</sup> 24	18 <sup>2</sup> 3	11 <sup>2</sup> 46	0 <sup>2</sup> 49	T 25
F 26	8 20 3	5 <sup>2</sup> 42'45	28 <sup>2</sup> 40	4 <sup>2</sup> 15	16 <sup>2</sup> 50	19 <sup>2</sup> 0	6 <sup>2</sup> 7	21 <sup>2</sup> 0	0 <sup>2</sup> 8	27 <sup>2</sup> 51	10 <sup>2</sup> 33	17 <sup>2</sup> 21	18 <sup>2</sup> 0	11 <sup>2</sup> 53	0 <sup>2</sup> 55	F 26
S 27	8 23 59	6 <sup>2</sup> 43'46	10 <sup>2</sup> 14	5 <sup>2</sup> 56	18 <sup>2</sup> 1	19 <sup>2</sup> 41	6 <sup>2</sup> 6	21 <sup>2</sup> 7	0 <sup>2</sup> 7	27 <sup>2</sup> 51	10 <sup>2</sup> 35	17 <sup>2</sup> 16	17 <sup>2</sup> 57	12 <sup>2</sup> 0	1 <sup>2</sup> 1	S 27
S 28	8 27 56	7 <sup>2</sup> 44'46	22 <sup>2</sup> 54	7 <sup>2</sup> 38	19 <sup>2</sup> 12	20 <sup>2</sup> 23	6 <sup>2</sup> 4	21 <sup>2</sup> 14	0 <sup>2</sup> 6	27 <sup>2</sup> 51	10 <sup>2</sup> 36	17 <sup>2</sup> 9	17 <sup>2</sup> 54	12 <sup>2</sup> 6	1 <sup>2</sup> 6	S 28
M29	8 31 52	8 <sup>2</sup> 45'46	5 <sup>2</sup> 33	9 <sup>2</sup> 20	20 <sup>2</sup> 23	21 <sup>2</sup> 5	6 <sup>2</sup> 3	21 <sup>2</sup> 21	0 <sup>2</sup> 4	27 <sup>2</sup> 50	10 <sup>2</sup> 38	16 <sup>2</sup> 59	17 <sup>2</sup> 50	12 <sup>2</sup> 13	1 <sup>2</sup> 12	M29
T 30	8 35 49	9 <sup>2</sup> 46'45	18 <sup>2</sup> 11	11 <sup>2</sup> 4	21 <sup>2</sup> 33	21 <sup>2</sup> 46	6 <sup>2</sup> 1	21 <sup>2</sup> 28	0 <sup>2</sup> 3	27 <sup>2</sup> 50	10 <sup>2</sup> 39	16 <sup>2</sup> 47	17 <sup>2</sup> 47	12 <sup>2</sup> 20	1 <sup>2</sup> 18	T 30
W31	8 39 45	10 <sup>2</sup> 47'43	1 <sup>2</sup> 17	12 <sup>2</sup> 48	22 <sup>2</sup> 11	22 <sup>2</sup> 28	5 <sup>2</sup> 59	21 <sup>2</sup> 35	0 <sup>2</sup> 2	27 <sup>2</sup> 50	10 <sup>2</sup> 41	16 <sup>2</sup> 45	17 <sup>2</sup> 44	12 <sup>2</sup> 26	1 <sup>2</sup> 23	W31

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
M 1	23s 2	18s47	4n37	23s22	0s 2	17s35	1s51	20s17	0n15	1s 1	1n18	16s23	1s 4	0n34	0n46	18n 4	1s44	19s57	13s11	7s49	7s34	12s52	18s 4	5n22	
T 2	22 57	18 9	4 56	23 32	0 9	17 12	1 50	20 25	0 14	1 2	1 18	16 21	1 4	0 34	0 46	18 4	1 44	19 57	13 11	7 44	7 32	12 54	18 3	5 22	
W 3	22 52	16 37	5 0	23 41	0 16	16 48	1 49	20 34	0 14	1 3	1 18	16 19	1 4	0 34	0 46	18 3	1 44	19 56	13 11	7 39	7 31	12 55	18 3	5 22	
T 4	22 46	14 12	4 48	23 49	0 23	16 24	1 48	20 42	0 13	1 4	1 18	16 17	1 4	0 34	0 46	18 3	1 44	19 56	13 11	7 34	7 30	12 56	18 3	5 22	
F 5	22 40	11 2	4 42	23 56	0 30	15 59	1 47	20 51	0 12	1 5	1 19	16 15	1 4	0 34	0 46	18 3	1 44	19 55	13 10	7 29	7 29	12 57	18 3	5 22	
S 6	22 33	7 16	3 40	24 1	0 37	15 34	1 46	20 59	0 12	1 6	1 19	16 13	1 4	0 34	0 46	18 3	1 44	19 55	13 10	7 26	7 28	12 59	18 3	5 23	
S 7	22 26	3 4	2 45	24 6	0 43	15 9	1 45	21 6	0 11	1 7	1 19	16 11	1 4	0 34	0 46	18 3	1 44	19 54	13 10	7 24	7 26	13 0	18 3	5 23	
M 8	22 18	1n19	1 41	24 9	0 50	14 43	1 43	21 14	0 10	1 8	1 19	16 9	1 4	0 34	0 46	18 2	1 43	19 53	13 10	7 23	7 25	13 1	18 2	5 23	
T 9	22 10	5 42	0 29	24 11	0 56	14 17	1 42	21 22	0 10	1 8	1 20	16 7	1 4	0 34	0 46	18 2	1 43	19 53	13 10	7 23	7 24	13 3	18 2	5 23	
W10	22 1	9 49	0s45	24 11	1 2	13 51	1 40	21 29	0 9	1 9	1 20	16 5	1 4	0 34	0 46	18 2	1 43	19 52	13 9	7 23	7 23	13 4	18 2	5 24	
T 11	21 53	13 25	1 57	24 10	1 8	13 24	1 39	21 36	0 8	1 9	1 20	16 3	1 4	0 35	0 46	18 2	1 43	19 51	13 9	7 23	7 22	13 5	18 2	5 24	
F 12	21 43	16 15	3 2	24 8	1 13	12 57	1 37	21 43	0 8	1 10	1 21	16 1	1 4	0 35	0 46	18 2	1 43	19 51	13 9	7 22	7 20	13 7	18 1	5 24	
S 13	21 33	18 5	3 56	24 5	1 18	12 29	1 35	21 50	0 7	1 10	1 21	15 59	1 4	0 35	0 46	18 2	1 43	19 50	13 9	7 19	7 19	13 8	18 1	5 25	
S 14	21 23	18 44	4 35	24 0	1 24	12 2	1 33	21 56	0 6	1 10	1 21	15 57	1 4	0 35	0 46	18 2	1 43	19 49	13 9	7 16	7 18	13 9	18 1	5 25	
M15	21 13	18 12	4 56	23 54	1 28	11 34	1 31	22 3	0 6	1 11	1 21	15 55	1 4	0 35	0 46	18 1	1 43	19 49	13 8	7 12	7 17	13 10	18 1	5 25	
T 16	21 2	16 32	4 59	23 46	1 33	11 5	1 29	22 9	0 5	1 11	1 22	15 53	1 4	0 36	0 46	18 1	1 43	19 48	13 8	7 7	7 16	13 12	18 0	5 25	
W17	20 50	13 55	4 44	23 37	1 37	10 37	1 26	22 15	0 4	1 11	1 22	15 51	1 5	0 36	0 46	18 1	1 43	19 48	13 8	7 2	7 14	13 13	18 0	5 26	
T 18	20 38	10 37	4 13	23 27	1 41	10 8	1 24	22 21	0 4	1 11	1 22	15 48	1 5	0 36	0 46	18 1	1 43	19 47	13 8	6 58	7 13	13 14	18 0	5 26	
F 19	20 26	6 52	3 29	23 15	1 45	9 39	1 22	22 27	0 3	1 11	1 22	15 46	1 5	0 37	0 46	18 1	1 43	19 46	13 8	6 54	7 12	13 16	17 59	5 26	
S 20	20 14	2 54	2 36	23 2	1 49	9 9	1 19	22 32	0 2	1 11	1 23	15 44	1 5	0 37	0 46	18 1	1 43	19 46	13 7	6 52	7 11	13 17	17 59	5 27	
S 21	20 1	1s 5	1 36	22 47	1 52	8 40	1 17	22 37	0 1	1 10	1 23	15 42	1 5	0 37	0 46	18 1	1 43	19 45	13 7	6 51	7 9	13 18	17 59	5 27	
M22	19 47	4 56	0 33	22 31	1 55	8 10	1 14	22 42	0 1	1 10	1 23	15 40	1 5	0 38	0 46	18 1	1 43	19 44	13 7	6 50	7 8	13 19	17 58	5 27	
T 23	19 33	8 32	0n31	22 13	1 57	7 40	1 11	22 47	0 0	1 10	1 24	15 38	1 5	0 38	0 47	18 1	1 43	19 44	13 7	6 50	7 7	13 21	17 58	5 28	
W24	19 19	11 44	1 32	21 54	1 59	7 10	1 8	22 52	0s 1	1 9	1 24	15 35	1 5	0 39	0 47	18 1	1 43	19 43	13 7	6 50	7 6	13 22	17 58	5 28	
T 25	19 5	14 27	2 30	21 33	2 1	6 40	1 5	22 56	0 1	1 9	1 24	15 33	1 5	0 39	0 47	18 1	1 43	19 42	13 7	6 50	7 5	13 23	17 57	5 28	
F 26	18 50	16 35	3 21	21 11	2 3	6 9	1 2	23 1	0 2	1 8	1 24	15 31	1 5	0 40	0 47	18 1	1 42	19 42	13 6	6 49	7 3	13 24	17 57	5 29	
S 27	18 35	18 1	4 4	20 47	2 4	5 39	0 59	23 5	0 3	1 7	1 25	15 29	1 5	0 40	0 47	18 1	1 42	19 41	13 6	6 47	7 2	13 26	17 56	5 29	
S 28	18 20	18 38	4 36	20 22	2 5	5 8	0 56	23 9	0 4	1 7	1 25	15 26	1 5	0 41	0 47	18 1	1 42	19 40	13 6	6 44	7 1	13 27	17 56	5 30	
M29	18 4	18 23	4 57	19 55	2 5	4 37	0 53	23 12	0 4	1 6	1 25	15 24	1 5	0 41	0 47	18 0	1 42	19 40	13 6	6 40	7 0	13 28	17 55	5 30	
T 30	17 48	17 12	5 3	19 27	2 5	4 6	0 49	23 16	0 5	1 5	1 25	15 22	1 5	0 42	0 47	18 0	1 42	19 39	13 6	6 36	6 59	13 29	17 55	5 30	
W31	17s31	15s 6	4n53	18s57	2s 4	3s35	0s46	23s19	0s 6	1s 4	1n26	15s20	1s 5	0n42	0n47	18n 0	1s42	19s38	13s 6	6s31	6s57	13s31	17s55	5n31	

# ASTRODIENST EPHEMERIS for the year 2052

## geocentric

FEBRUARY 2052

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 42	11 <sup>h</sup> 48'40"	14 <sup>h</sup> 40'	14 <sup>h</sup> 32'	23 <sup>h</sup> 54'	23 <sup>h</sup> 9'	5°R57	21 <sup>h</sup> 43'	0°R 0	27°R49	10 <sup>h</sup> 42'	16°R23	17 <sup>h</sup> 41'	12 <sup>h</sup> 33'	1 <sup>h</sup> 29'	T 1
F 2	8 47 38	12°49'36"	28°18'	16°17'	25° 5'	23°51'	5 <sup>h</sup> 55'	21°50'	29 <sup>h</sup> 59'	27°49'	10°43'	16°13'	17°38'	12°40'	1°34'	F 2
S 3	8 51 35	13°50'31"	12 <sup>h</sup> 7'	18° 3'	26°15'	24°33'	5°53'	21°57'	29°57'	27°49'	10°45'	16° 6'	17°35'	12°46'	1°40'	S 3
S 4	8 55 32	14°51'25"	26° 4'	19°49'	27°25'	25°15'	5°50'	22° 4'	29°56'	27°49'	10°46'	16° 2'	17°31'	12°53'	1°45'	S 4
M 5	8 59 28	15°52'17"	10 <sup>h</sup> 7'	21°36'	28°35'	25°56'	5°47'	22°11'	29°54'	27°49'	10°48'	16°D 0	17°28'	13° 0'	1°51'	M 5
T 6	9 3 25	16°53'08"	24°12'	23°23'	29°45'	26°38'	5°44'	22°19'	29°52'	27°49'	10°49'	16° 0'	17°25'	13° 6'	1°56'	T 6
W 7	9 7 21	17°53'58"	8 <sup>h</sup> 18'	25°10'	0 <sup>h</sup> 54'	27°20'	5°41'	22°26'	29°51'	27°D49	10°51'	16° 1'	17°22'	13°13'	2° 1'	W 7
T 8	9 11 18	18°54'46"	22°24'	26°58'	2° 4'	28° 2'	5°38'	22°33'	29°49'	27°49'	10°52'	16°R 1	17°19'	13°20'	2° 7'	T 8
F 9	9 15 14	19°55'33"	6 <sup>h</sup> 30'	28°46'	3°13'	28°43'	5°34'	22°40'	29°47'	27°49'	10°54'	16° 0'	17°15'	13°26'	2°12'	F 9
S 10	9 19 11	20°56'18"	20°33'	0 <sup>h</sup> 34'	4°22'	29°25'	5°30'	22°47'	29°45'	27°49'	10°56'	15°56'	17°12'	13°33'	2°17'	S 10
S 11	9 23 7	21°57'02"	4 <sup>h</sup> 32'	2°22'	5°31'	0 <sup>h</sup> 7'	5°27'	22°55'	29°44'	27°49'	10°57'	15°51'	17° 9'	13°40'	2°22'	S 11
M12	9 27 4	22°57'44"	18°25'	4° 9'	6°40'	0°49'	5°23'	23° 2'	29°42'	27°49'	10°59'	15°43'	17° 6'	13°46'	2°27'	M12
T 13	9 31 1	23°58'24"	2 <sup>h</sup> 7'	5°56'	7°49'	1°31'	5°18'	23° 9'	29°40'	27°49'	11° 0'	15°34'	17° 3'	13°53'	2°32'	T 13
W14	9 34 57	24°59'03"	15°37'	7°42'	8°57'	2°13'	5°14'	23°16'	29°38'	27°50'	11° 2'	15°24'	17° 0'	14° 0'	2°37'	W14
T 15	9 38 54	25°59'41"	28°51'	9°27'	10° 5'	2°55'	5° 9'	23°24'	29°36'	27°50'	11° 3'	15°16'	16°56'	14° 6'	2°42'	T 15
F 16	9 42 50	27° 0'17"	11 <sup>h</sup> 48'	11°10'	11°13'	3°37'	5° 5'	23°31'	29°34'	27°50'	11° 5'	15°10'	16°53'	14°13'	2°46'	F 16
S 17	9 46 47	28° 0'51"	24°27'	12°52'	12°21'	4°19'	5° 0'	23°38'	29°32'	27°51'	11° 7'	15° 5'	16°50'	14°19'	2°51'	S 17
S 18	9 50 43	29° 1'25"	6 <sup>h</sup> 50'	14°31'	13°29'	5° 1'	4°55'	23°45'	29°30'	27°51'	11° 8'	15° 3'	16°47'	14°26'	2°56'	S 18
M19	9 54 40	0 <sup>h</sup> 1'57"	18°58'	16° 7'	14°36'	5°43'	4°50'	23°53'	29°27'	27°51'	11°10'	15°D 3	16°44'	14°33'	3° 0'	M19
T 20	9 58 36	1° 2'27"	0 <sup>h</sup> 15'55"	17°39'	15°44'	6°25'	4°44'	24° 0'	29°25'	27°52'	11°11'	15° 4'	16°40'	14°39'	3° 5'	T 20
W21	10 2 33	2° 2'57"	12°46'	19° 8'	16°51'	7° 7'	4°39'	24° 7'	29°23'	27°52'	11°13'	15° 5'	16°37'	14°46'	3° 9'	W21
T 22	10 6 30	3° 3'25"	24°35'	20°32'	17°58'	7°49'	4°33'	24°14'	29°21'	27°53'	11°15'	15° 7'	16°34'	14°53'	3°13'	T 22
F 23	10 10 26	4° 3'52"	6 <sup>h</sup> 27'	21°50'	19° 4'	8°31'	4°28'	24°21'	29°19'	27°53'	11°16'	15°R 7	16°31'	14°59'	3°18'	F 23
S 24	10 14 23	5° 4'17"	18°28'	23° 3'	20°11'	9°14'	4°22'	24°29'	29°16'	27°54'	11°18'	15° 6'	16°28'	15° 6'	3°22'	S 24
S 25	10 18 19	6° 4'41"	0 <sup>h</sup> 34'	24° 9'	21°17'	9°56'	4°16'	24°36'	29°14'	27°54'	11°19'	15° 3'	16°25'	15°13'	3°26'	S 25
M26	10 22 16	7° 5'04"	13°14'	25° 8'	22°23'	10°38'	4°10'	24°43'	29°12'	27°55'	11°21'	14°59'	16°21'	15°19'	3°30'	M26
T 27	10 26 12	8° 5'25"	26° 7'	25°58'	23°28'	11°20'	4° 3'	24°50'	29° 9'	27°56'	11°23'	14°53'	16°18'	15°26'	3°34'	T 27
W28	10 30 9	9° 5'45"	9 <sup>h</sup> 22'	26°41'	24°34'	12° 2'	3°57'	24°57'	29° 7'	27°56'	11°24'	14°47'	16°15'	15°33'	3°38'	W28
T 29	10 34 5	10 <sup>h</sup> 6'03"	22 <sup>h</sup> 59'	27 <sup>h</sup> 15'	25 <sup>h</sup> 39'	12 <sup>h</sup> 45'	3 <sup>h</sup> 50'	25 <sup>h</sup> 4	29 <sup>h</sup> 4	27 <sup>h</sup> 57'	11 <sup>h</sup> 26'	14 <sup>h</sup> 41'	16 <sup>h</sup> 12'	15 <sup>h</sup> 39'	3 <sup>h</sup> 42'	T 29

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	17s14	12s10	4n27	18s26	2s 3	3s 4	0s42	23s22	0s 7	1s 3	1n26	15s17	1s 5	0n43	0n47	T 1
F 2	16 57	8 32	3 46	17 53	2 2	2 33	0 39	23 25	0 8	1 2	1 26	15 15	1 5	0 43	0 47	F 2
S 3	16 40	4 23	2 51	17 19	2 0	2 1	0 35	23 27	0 8	1 1	1 26	15 13	1 5	0 44	0 47	S 3
S 4	16 22	0n 2	1 44	16 44	1 58	1 30	0 31	23 30	0 9	0 59	1 27	15 11	1 5	0 45	0 47	S 4
M 5	16 4	4 29	0 31	16 7	1 55	0 59	0 27	23 32	0 10	0 58	1 27	15 8	1 5	0 45	0 47	M 5
T 6	15 46	8 42	0s44	15 28	1 51	0 27	0 23	23 34	0 11	0 57	1 27	15 6	1 5	0 46	0 47	T 6
W 7	15 28	12 26	1 57	14 48	1 47	0n 4	0 19	23 36	0 12	0 55	1 28	15 4	1 5	0 47	0 47	W 7
T 8	15 9	15 26	3 2	14 7	1 42	0 35	0 15	23 37	0 12	0 53	1 28	15 1	1 5	0 48	0 47	T 8
F 9	14 50	17 30	3 57	13 25	1 37	1 7	0 11	23 39	0 13	0 52	1 28	14 59	1 5	0 48	0 47	F 9
S 10	14 31	18 29	4 37	12 41	1 31	1 38	0 7	23 40	0 14	0 50	1 28	14 57	1 6	0 49	0 47	S 10
S 11	14 11	18 21	5 0	11 56	1 24	2 9	0 3	23 41	0 15	0 48	1 28	14 54	1 6	0 50	0 47	S 11
M12	13 51	17 7	5 6	11 10	1 17	2 40	0n 2	23 41	0 16	0 47	1 29	14 52	1 6	0 51	0 47	M12
T 13	13 32	14 54	4 54	10 24	1 9	3 12	0 6	23 42	0 16	0 45	1 29	14 50	1 6	0 51	0 47	T 13
W14	13 11	11 55	4 25	9 36	1 0	3 43	0 11	23 42	0 17	0 43	1 29	14 47	1 6	0 52	0 47	W14
T 15	12 51	8 23	3 43	8 48	0 50	4 14	0 15	23 42	0 18	0 41	1 29	14 45	1 6	0 53	0 47	T 15
F 16	12 30	4 31	2 50	8 0	0 40	4 45	0 20	23 42	0 19	0 39	1 30	14 43	1 6	0 54	0 47	F 16
S 17	12 10	0 32	1 49	7 11	0 29	5 15	0 25	23 41	0 20	0 37	1 30	14 40	1 6	0 55	0 47	S 17
S 18	11 49	3s23	0 44	6 22	0 18	5 46	0 29	23 41	0 21	0 34	1 30	14 38	1 6	0 55	0 47	S 18
M19	11 27	7 6	0n21	5 34	0 6	6 17	0 34	23 40	0 22	0 32	1 30	14 36	1 6	0 56	0 47	M19
T 20	11 6	10 28	1 25	4 46	0n 7	6 47	0 39	23 39	0 22	0 30	1 30	14 34	1 6	0 57	0 47	T 20
W21	10 44	13 22	2 25	3 59	0 20	7 17	0 44	23 38	0 23	0 28	1 31	14 31	1 6	0 58	0 47	W21
T 22	10 23	15 42	3 18	3 14	0 34	7 47	0 49	23 36	0 24	0 25	1 31	14 29	1 6	0 59	0 47	T 22
F 23	10 1	17 23	4 3	2 30	0 49	8 17	0 54	23 34	0 25	0 23	1 31	14 27	1 6	1 0	0 47	F 23
S 24	9 39	18 18	4 38	1 47	1 3	8 47	0 59	23 33	0 26	0 20	1 31	14 24	1 7	1 1	0 47	S 24
S 25	9 17	18 24	5 1	1 8	1 18	9 17	1 4	23 30	0 27	0 18	1 31	14 22	1 7	1 2	0 47	S 25
M26	8 54	17 37	5 11	0 31	1 33	9 46	1 9	23 28	0 28	0 15	1 32	14 20	1 7	1 3	0 47	M26
T 27	8 32	15 55	5 5	0n 3	1 48	10 15	1 14	23 25	0 29	0 12	1 32	14 17	1 7	1 4	0 47	T 27
W28	8 9	13 21	4 43	0 33	2 2	10 44	1 19	23 23	0 30	0 10	1 32	14 15	1 7	1 5	0 47	W28
T 29	7s47	9s59	4n 5	1n 0	2n17	11n13	1n24	23s20	0s31	0s 7	1n32	14s13	1s 7	1n 6	0n47	T 29

Julian Day Number = 2470568.5, Delta T = 75.19 sec  
 Ecliptic obliquity = 23°25'48", Nutation = 0°00'07", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°28'05", Lahiri = 24°35'05"

# ASTRODIENST EPHEMERIS for the year 2052

## geocentric

MARCH 2052

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	10 38 2	11 <sup>11</sup> 6'20	6 <sup>11</sup> 57	27 <sup>11</sup> 39	26 <sup>11</sup> 44	13 <sup>11</sup> 27	3 <sup>11</sup> R44	25 <sup>11</sup> 11	29 <sup>11</sup> R 2	27 <sup>11</sup> 58	11 <sup>11</sup> 28	14 <sup>11</sup> R36	16 <sup>11</sup> 9	15 <sup>11</sup> 46	3 <sup>11</sup> 45	F 1
S 2	10 41 58	12 <sup>11</sup> 6'34	21 <sup>11</sup> 10	27 <sup>11</sup> 54	27 <sup>11</sup> 48	14 <sup>11</sup> 9	3 <sup>11</sup> 37	25 <sup>11</sup> 18	29 <sup>11</sup> 0	27 <sup>11</sup> 59	11 <sup>11</sup> 29	14 <sup>11</sup> 32	16 <sup>11</sup> 6	15 <sup>11</sup> 53	3 <sup>11</sup> 49	S 2
S 3	10 45 55	13 <sup>11</sup> 6'47	5 <sup>11</sup> 35	27 <sup>11</sup> R59	28 <sup>11</sup> 52	14 <sup>11</sup> 52	3 <sup>11</sup> 30	25 <sup>11</sup> 25	28 <sup>11</sup> 57	27 <sup>11</sup> 59	11 <sup>11</sup> 31	14 <sup>11</sup> 30	16 <sup>11</sup> 2	15 <sup>11</sup> 59	3 <sup>11</sup> 53	S 3
M 4	10 49 52	14 <sup>11</sup> 6'58	20 <sup>11</sup> 5	27 <sup>11</sup> 55	29 <sup>11</sup> 56	15 <sup>11</sup> 34	3 <sup>11</sup> 23	25 <sup>11</sup> 32	28 <sup>11</sup> 55	28 <sup>11</sup> 0	11 <sup>11</sup> 32	14 <sup>11</sup> D30	15 <sup>11</sup> 59	16 <sup>11</sup> 6	3 <sup>11</sup> 56	M 4
T 5	10 53 48	15 <sup>11</sup> 7'07	4 <sup>11</sup> 35	27 <sup>11</sup> 42	1 <sup>11</sup> 0	16 <sup>11</sup> 16	3 <sup>11</sup> 16	25 <sup>11</sup> 39	28 <sup>11</sup> 52	28 <sup>11</sup> 1	11 <sup>11</sup> 34	14 <sup>11</sup> 31	15 <sup>11</sup> 56	16 <sup>11</sup> 13	4 <sup>11</sup> 0	T 5
W 6	10 57 45	16 <sup>11</sup> 7'14	19 <sup>11</sup> 0	27 <sup>11</sup> 20	2 <sup>11</sup> 3	16 <sup>11</sup> 59	3 <sup>11</sup> 9	25 <sup>11</sup> 46	28 <sup>11</sup> 50	28 <sup>11</sup> 2	11 <sup>11</sup> 36	14 <sup>11</sup> 33	15 <sup>11</sup> 53	16 <sup>11</sup> 19	4 <sup>11</sup> 3	W 6
T 7	11 1 141	17 <sup>11</sup> 7'18	3 <sup>11</sup> 18	26 <sup>11</sup> 50	3 <sup>11</sup> 6	17 <sup>11</sup> 41	3 <sup>11</sup> 2	25 <sup>11</sup> 53	28 <sup>11</sup> 47	28 <sup>11</sup> 3	11 <sup>11</sup> 37	14 <sup>11</sup> 34	15 <sup>11</sup> 50	16 <sup>11</sup> 26	4 <sup>11</sup> 6	T 7
F 8	11 5 38	18 <sup>11</sup> 7'21	17 <sup>11</sup> 25	26 <sup>11</sup> 12	4 <sup>11</sup> 9	18 <sup>11</sup> 24	2 <sup>11</sup> 55	26 <sup>11</sup> 0	28 <sup>11</sup> 45	28 <sup>11</sup> 4	11 <sup>11</sup> 39	14 <sup>11</sup> R35	15 <sup>11</sup> 46	16 <sup>11</sup> 33	4 <sup>11</sup> 10	F 8
S 9	11 9 34	19 <sup>11</sup> 7'22	1 <sup>11</sup> 21	25 <sup>11</sup> 28	5 <sup>11</sup> 11	19 <sup>11</sup> 6	2 <sup>11</sup> 47	26 <sup>11</sup> 7	28 <sup>11</sup> 42	28 <sup>11</sup> 5	11 <sup>11</sup> 41	14 <sup>11</sup> 34	15 <sup>11</sup> 43	16 <sup>11</sup> 39	4 <sup>11</sup> 13	S 9
S 10	11 13 31	20 <sup>11</sup> 7'20	15 <sup>11</sup> 4	24 <sup>11</sup> 38	6 <sup>11</sup> 13	19 <sup>11</sup> 48	2 <sup>11</sup> 40	26 <sup>11</sup> 14	28 <sup>11</sup> 39	28 <sup>11</sup> 6	11 <sup>11</sup> 42	14 <sup>11</sup> 32	15 <sup>11</sup> 40	16 <sup>11</sup> 46	4 <sup>11</sup> 16	S 10
M 11	11 17 27	21 <sup>11</sup> 7'16	28 <sup>11</sup> 34	23 <sup>11</sup> 44	7 <sup>11</sup> 15	20 <sup>11</sup> 31	2 <sup>11</sup> 33	26 <sup>11</sup> 21	28 <sup>11</sup> 37	28 <sup>11</sup> 7	11 <sup>11</sup> 44	14 <sup>11</sup> 30	15 <sup>11</sup> 37	16 <sup>11</sup> 53	4 <sup>11</sup> 19	M 11
T 12	11 21 24	22 <sup>11</sup> 7'10	11 <sup>11</sup> 51	22 <sup>11</sup> 48	8 <sup>11</sup> 16	21 <sup>11</sup> 13	2 <sup>11</sup> 25	26 <sup>11</sup> 27	28 <sup>11</sup> 34	28 <sup>11</sup> 8	11 <sup>11</sup> 45	14 <sup>11</sup> 26	15 <sup>11</sup> 34	16 <sup>11</sup> 59	4 <sup>11</sup> 22	T 12
W 13	11 25 21	23 <sup>11</sup> 7'02	24 <sup>11</sup> 55	21 <sup>11</sup> 49	9 <sup>11</sup> 17	21 <sup>11</sup> 56	2 <sup>11</sup> 18	26 <sup>11</sup> 34	28 <sup>11</sup> 32	28 <sup>11</sup> 10	11 <sup>11</sup> 47	14 <sup>11</sup> 23	15 <sup>11</sup> 31	17 <sup>11</sup> 6	4 <sup>11</sup> 24	W 13
T 14	11 29 17	24 <sup>11</sup> 6'51	7 <sup>11</sup> 45	20 <sup>11</sup> 51	10 <sup>11</sup> 17	22 <sup>11</sup> 38	2 <sup>11</sup> 10	26 <sup>11</sup> 41	28 <sup>11</sup> 29	28 <sup>11</sup> 11	11 <sup>11</sup> 49	14 <sup>11</sup> 20	15 <sup>11</sup> 27	17 <sup>11</sup> 13	4 <sup>11</sup> 27	T 14
F 15	11 33 14	25 <sup>11</sup> 6'39	20 <sup>11</sup> 22	19 <sup>11</sup> 54	11 <sup>11</sup> 17	23 <sup>11</sup> 21	2 <sup>11</sup> 2	26 <sup>11</sup> 48	28 <sup>11</sup> 26	28 <sup>11</sup> 12	11 <sup>11</sup> 50	14 <sup>11</sup> 18	15 <sup>11</sup> 24	17 <sup>11</sup> 19	4 <sup>11</sup> 30	F 15
S 16	11 37 10	26 <sup>11</sup> 6'24	2 <sup>11</sup> 47	18 <sup>11</sup> 58	12 <sup>11</sup> 17	24 <sup>11</sup> 3	1 <sup>11</sup> 55	26 <sup>11</sup> 54	28 <sup>11</sup> 24	28 <sup>11</sup> 13	11 <sup>11</sup> 52	14 <sup>11</sup> 16	15 <sup>11</sup> 21	17 <sup>11</sup> 26	4 <sup>11</sup> 32	S 16
S 17	11 41 7	27 <sup>11</sup> 6'08	14 <sup>11</sup> 59	18 <sup>11</sup> 6	13 <sup>11</sup> 16	24 <sup>11</sup> 46	1 <sup>11</sup> 47	27 <sup>11</sup> 1	28 <sup>11</sup> 21	28 <sup>11</sup> 14	11 <sup>11</sup> 53	14 <sup>11</sup> D16	15 <sup>11</sup> 18	17 <sup>11</sup> 33	4 <sup>11</sup> 35	S 17
M 18	11 45 3	28 <sup>11</sup> 5'50	27 <sup>11</sup> 2	17 <sup>11</sup> 19	14 <sup>11</sup> 14	25 <sup>11</sup> 29	1 <sup>11</sup> 39	27 <sup>11</sup> 7	28 <sup>11</sup> 19	28 <sup>11</sup> 16	11 <sup>11</sup> 55	14 <sup>11</sup> 16	15 <sup>11</sup> 15	17 <sup>11</sup> 39	4 <sup>11</sup> 37	M 18
T 19	11 49 0	29 <sup>11</sup> 5'29	8 <sup>11</sup> 57	16 <sup>11</sup> 35	15 <sup>11</sup> 12	26 <sup>11</sup> 11	1 <sup>11</sup> 31	27 <sup>11</sup> 14	28 <sup>11</sup> 16	28 <sup>11</sup> 17	11 <sup>11</sup> 57	14 <sup>11</sup> 17	15 <sup>11</sup> 11	17 <sup>11</sup> 46	4 <sup>11</sup> 39	T 19
W 20	11 52 56	0 <sup>11</sup> 5'07	20 <sup>11</sup> 47	15 <sup>11</sup> 58	16 <sup>11</sup> 10	26 <sup>11</sup> 54	1 <sup>11</sup> 24	27 <sup>11</sup> 20	28 <sup>11</sup> 13	28 <sup>11</sup> 18	11 <sup>11</sup> 58	14 <sup>11</sup> 19	15 <sup>11</sup> 8	17 <sup>11</sup> 53	4 <sup>11</sup> 42	W 20
T 21	11 56 53	1 <sup>11</sup> 4'44	2 <sup>11</sup> 36	15 <sup>11</sup> 26	17 <sup>11</sup> 7	27 <sup>11</sup> 36	1 <sup>11</sup> 16	27 <sup>11</sup> 27	28 <sup>11</sup> 11	28 <sup>11</sup> 20	12 <sup>11</sup> 0	14 <sup>11</sup> 20	15 <sup>11</sup> 5	17 <sup>11</sup> 59	4 <sup>11</sup> 44	T 21
F 22	12 0 50	2 <sup>11</sup> 4'18	14 <sup>11</sup> 29	15 <sup>11</sup> 0	18 <sup>11</sup> 4	28 <sup>11</sup> 19	1 <sup>11</sup> 8	27 <sup>11</sup> 33	28 <sup>11</sup> 8	28 <sup>11</sup> 21	12 <sup>11</sup> 1	14 <sup>11</sup> 21	15 <sup>11</sup> 2	18 <sup>11</sup> 6	4 <sup>11</sup> 46	F 22
S 23	12 4 46	3 <sup>11</sup> 3'51	26 <sup>11</sup> 29	14 <sup>11</sup> 40	19 <sup>11</sup> 0	29 <sup>11</sup> 2	1 <sup>11</sup> 0	27 <sup>11</sup> 40	28 <sup>11</sup> 6	28 <sup>11</sup> 23	12 <sup>11</sup> 3	14 <sup>11</sup> 22	14 <sup>11</sup> 59	18 <sup>11</sup> 13	4 <sup>11</sup> 48	S 23
S 24	12 8 43	4 <sup>11</sup> 3'22	8 <sup>11</sup> 34	14 <sup>11</sup> 26	19 <sup>11</sup> 55	29 <sup>11</sup> 44	0 <sup>11</sup> 53	27 <sup>11</sup> 46	28 <sup>11</sup> 3	28 <sup>11</sup> 24	12 <sup>11</sup> 4	14 <sup>11</sup> R22	14 <sup>11</sup> 56	18 <sup>11</sup> 19	4 <sup>11</sup> 49	S 24
M 25	12 12 39	5 <sup>11</sup> 2'52	21 <sup>11</sup> 11	14 <sup>11</sup> 18	20 <sup>11</sup> 50	0 <sup>11</sup> 27	0 <sup>11</sup> 45	27 <sup>11</sup> 52	28 <sup>11</sup> 0	28 <sup>11</sup> 25	12 <sup>11</sup> 6	14 <sup>11</sup> 21	14 <sup>11</sup> 52	18 <sup>11</sup> 26	4 <sup>11</sup> 51	M 25
T 26	12 16 36	6 <sup>11</sup> 2'19	4 <sup>11</sup> 1	14 <sup>11</sup> D17	21 <sup>11</sup> 44	1 <sup>11</sup> 10	0 <sup>11</sup> 37	27 <sup>11</sup> 59	27 <sup>11</sup> 58	28 <sup>11</sup> 27	12 <sup>11</sup> 7	14 <sup>11</sup> 20	14 <sup>11</sup> 49	18 <sup>11</sup> 33	4 <sup>11</sup> 53	T 26
W 27	12 20 32	7 <sup>11</sup> 1'45	17 <sup>11</sup> 15	14 <sup>11</sup> 21	22 <sup>11</sup> 38	1 <sup>11</sup> 53	0 <sup>11</sup> 29	28 <sup>11</sup> 5	27 <sup>11</sup> 55	28 <sup>11</sup> 29	12 <sup>11</sup> 9	14 <sup>11</sup> 20	14 <sup>11</sup> 46	18 <sup>11</sup> 39	4 <sup>11</sup> 54	W 27
T 28	12 24 29	8 <sup>11</sup> 1'09	0 <sup>11</sup> 55	14 <sup>11</sup> 30	23 <sup>11</sup> 31	2 <sup>11</sup> 35	0 <sup>11</sup> 22	28 <sup>11</sup> 11	27 <sup>11</sup> 53	28 <sup>11</sup> 30	12 <sup>11</sup> 10	14 <sup>11</sup> 19	14 <sup>11</sup> 43	18 <sup>11</sup> 46	4 <sup>11</sup> 56	T 28
F 29	12 28 25	9 <sup>11</sup> 0'31	15 <sup>11</sup> 0	14 <sup>11</sup> 45	24 <sup>11</sup> 23	3 <sup>11</sup> 18	0 <sup>11</sup> 14	28 <sup>11</sup> 17	27 <sup>11</sup> 50	28 <sup>11</sup> 32	12 <sup>11</sup> 12	14 <sup>11</sup> 18	14 <sup>11</sup> 40	18 <sup>11</sup> 53	4 <sup>11</sup> 57	F 29
S 30	12 32 22	9 <sup>11</sup> 59'51	29 <sup>11</sup> 27	15 <sup>11</sup> 5	25 <sup>11</sup> 15	4 <sup>11</sup> 1	0 <sup>11</sup> 6	28 <sup>11</sup> 23	27 <sup>11</sup> 48	28 <sup>11</sup> 33	12 <sup>11</sup> 13	14 <sup>11</sup> 18	14 <sup>11</sup> 37	18 <sup>11</sup> 59	4 <sup>11</sup> 59	S 30
S 31	12 36 18	10 <sup>11</sup> 59'09	14 <sup>11</sup> 11	15 <sup>11</sup> 29	26 <sup>11</sup> 8	4 <sup>11</sup> 44	29 <sup>11</sup> 59	28 <sup>11</sup> 29	27 <sup>11</sup> 45	28 <sup>11</sup> 35	12 <sup>11</sup> 15	14 <sup>11</sup> D18	14 <sup>11</sup> 33	19 <sup>11</sup> 6	5 <sup>11</sup> 0	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	7s24	6s 0	3n11	1n22	2n30	11n41	1n29	23s16	0s32	0s 4	1n32	14s10	1s 7	1n 7	0n47	18n 4	1s40	19s19	13s 4	5s45	6s21	14s 7	17s37	5n46
S 2	7 1	1 36	2 4	1 40	2 43	12 9	1 34	23 13	0 33	0 1	1 32	14 8	1 7	1 8	0 47	18 4	1 40	19 18	13 4	5 44	6 20	14 8	17 36	5 46
S 3	6 38	2n58	0 49	1 53	2 56	12 37	1 40	23 9	0 33	0n 1	1 33	14 6	1 7	1 9	0 48	18 5	1 40	19 17	13 4	5 43	6 18	14 9	17 36	5 47
M 4	6 15	7 23	0s31	2 2	3 7	13 5	1 45	23 6	0 34	0 4	1 33	14 4	1 7	1 10	0 48	18 5	1 40	19 17	13 4	5 43	6 17	14 10	17 35	5 48
T 5	5 52	11 21	1 48	2 5	3 16	13 32	1 50	23 1	0 35	0 7	1 33	14 1	1 7	1 11	0 48	18 5	1 40	19 16	13 4	5 43	6 16	14 11	17 34	5 48
W 6	5 28	14 36	2 58	2 4	3 24	13 59	1 56	22 57	0 36	0 10	1 33	13 59	1 8	1 12	0 48	18 5	1 40	19 16	13 5	5 44	6 15	14 13	17 34	5 49
T 7	5 5	16 56	3 57	1 58	3 31	14 26	2 1	22 53	0 37	0 13	1 33	13 57	1 8	1 13	0 48	18 6	1 40	19 15	13 5	5 44	6 14	14 14	17 33	5 49
F 8	4 42	18 11	4 40	1 47	3 36	14 53	2 6	22 48	0 38	0 16	1 33	13 55	1 8	1 14	0 48	18 6	1 40	19 14	13 5	5 45	6 12	14 15	17 32	5 50
S 9	4 18	18 19	5 6	1 32	3 38	15 19	2 12	22 43	0 39	0 19	1 33	13 52	1 8	1 15	0 48	18 6	1 40	19 14	13 5	5 44	6 11	14 16	17 31	5 51
S 10	3 55	17 22	5 14	1 13	3 39	15 45	2 17	22 38	0 40	0 22	1 33	13 50	1 8	1 16	0 48	18 6	1 40	19 13	13 5	5 44	6 10	14 17	17 31	5 51
M 11	3 31	15 27	5 5	0 51	3 38	16 10	2 22	22 33	0 41	0 25	1 34	13 48	1 8	1 17	0 48	18 7	1 40	19 13	13 5	5 43	6 9	14 18	17 30	5 52
T 12	3 8	12 45	4 39	0 25	3 34	16 35	2 28	22 27	0 42	0 28	1 34	13 46	1 8	1 18	0 48	18 7	1 40	19 12	13 5	5 41	6 7	14 19	17 29	5 52
W 13	2 44	9 27	4 0	0s 3	3 29	17 0	2 33	22 21	0 43	0 31	1 34	13 43	1 8	1 19	0 48	18 7	1 40	19 12	13 5	5 40	6 6	14 21	17 29	5 53
T 14	2 20	5 45	3 8	0 32	3 21	17 24	2 38	22 15	0 44	0 34	1 34	13 41	1 8	1 20	0 48	18 8	1 40	19 11	13 5	5 39	6 5	14 22	17 28	5 54
F 15	1 57	1 51	2 8	1 3	3 12	17 48	2 44	22 9	0 45	0 38	1 34	13 39	1 8	1 21	0 48	18 8	1 40	19 11	13 5	5 38	6 4	14 23	17 27	5 54
S 16	1 33	2s 4	1 3	1 34	3 2	18 12	2 49	22 3	0 46	0 41	1 34	13 37	1 9	1 22	0 48	18 8	1 39	19 10	13 5	5 37	6 3	14 24	17 26	5 55
S 17	1 9	5 50	0n 4	2 5	2 50	18 35	2 54	21 56	0 47	0 44	1 34	13 35	1 9	1 23	0 48	18 9	1 39	19 10	13 5	5 37	6 1	14 25	17 26	5 56
M 18	0 45	9 19	1 10	2 36	2 37	18 58	2 59	21 50	0 48	0 47	1 34	13 33	1 9	1 24	0 48	18 9	1 39	19 9	13 6	5 37	6 0	14 26	17 25	5 56
T 19	0 22	12 23	2 13	3 5	2 24	19 20	3 5	21 43	0 49	0 50	1 34	13 30	1 9	1 25	0 48	18 9	1 39	19 9	13 6	5 38	5 59	14 27	17 24	5 57
W 20	0n 2	14 54	3 9	3 33	2 9	19 42	3 10	21 36	0 50	0 53	1 34	13 28	1 9	1 26	0 48	18 10	1 39	19 8	13 6	5 38	5 58	14 28	17 24	5 57
T 21	0 26	16 48	3 57	3 59	1 54	20 3	3 15	21 28	0 51	0 56	1 34	13 26	1 9	1 27	0 48	18 10	1 39	19 8	13 6	5 39	5 56	14 30	17 23	5 58
F 22	0 49	17 58	4 35	4 23	1 39	20 25	3 20	21 21	0 52	0 59	1 34	13 24	1 9	1 28	0 48	18 10	1 39	19 7	13 6	5 39	5 55	14 31	17 22	5 59
S 23	1 13	18 21	5 2	4 45	1 24	20 45	3 25	21 13	0 53	1 2	1 34	13 22	1 9	1 29	0 48	18 11	1 39	19 7	13 6	5 40	5 54	14 32	17 21	5 59
S 24	1 37	17 54	5 16	5 4	1 8	21 5	3 30	21 5	0 55	1 6	1 34	13 20	1 10	1 30	0 48	18 11	1 39	19 6	13 6	5 40	5 53	14 33	17 21	6 0
M 25	2 0	16 34	5 15	5 21	0 53	21 25	3 36	20 57	0 56	1 9	1 34	13 18	1 10	1 31	0 48	18 11	1 39	19 6	13 7	5 39	5 51	14 34	17 20	6 1
T 26	2 24	14 24	4 59	5 36	0 39	21 44	3 40	20 49	0 57	1 12	1 34	13 16	1 10	1 32	0 48	18 12	1 39	19 5	13 7	5 39	5 50	14 35	17 19	6 1
W 27	2 47	11 25	4 27	5 48	0 24	22 3	3 45	20 40	0 58	1 15	1 34	13 14	1 10	1 33	0 48	18 12	1 39	19 5	13 7	5 39	5 49	14 36	17 19	6 2
T 28	3 11	7 44	3 38	5 57	0 10	22 21	3 50	20 32	0 59	1 18	1 34	13 12	1 10	1 34	0 48	18 13	1 39	19 4	13 7	5 38	5 48	14 37	17 18	6 3
F 29	3 34	3 31	2 36	6 4	0s 4	22 39	3 55	20 23	1 0	1 21	1 34	13 10	1 10	1 35	0 48	18 13	1 39	19 4	13 7	5 38	5 47	14 38	17 17	6 3
S 30	3 57	1n 2	1 22	6 8	0 17	22 57	4 0	20 14	1 1	1 24	1 34	13 8	1 10	1 36	0 47	18 13	1 39	19 4	13 7	5 38	5 45	14 40	17 16	6 4
S 31	4n21	5n36	0n 1	6s11	0s30	23n14	4n 4	20s 5	1s 2	1n27	1n34	13s 6	1s11	1n37	0n47	18n14	1s39	19s 3	13s 8	5s38	5s44	14s41	17s16	6n 5

ASTRODIENST EPHEMERIS for the year 2052  
geocentric

APRIL 2052

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 40 15	11°58'25	29°Y 5	15°K 58	26°B 56	5°26	29°R 51	28°35	27°R 43	28°B 37	12°K 16	14°A 18	14°A 30	19°M 13	5°B 1	M 1
T 2	12 44 12	12°57'39	14°B 1	16°32	27°45	6° 9	29°M 44	28°41	27°M 40	28°38	12°18	14°18	14°27	19°19	5° 2	T 2
W 3	12 48 8	13°56'50	28°52	17°10	28°34	6°52	29°37	28°47	27°38	28°40	12°19	14°R 18	14°24	19°26	5° 3	W 3
T 4	12 52 5	14°56'00	13°II 30	17°51	29°22	7°35	29°29	28°53	27°35	28°42	12°21	14°18	14°21	19°33	5° 4	T 4
F 5	12 56 1	15°55'07	27°50	18°36	0°II 9	8°17	29°22	28°58	27°33	28°43	12°22	14°18	14°17	19°39	5° 5	F 5
S 6	12 59 58	16°54'12	11°B 51	19°25	0°55	9° 0	29°15	29° 4	27°30	28°45	12°23	14°D 18	14°14	19°46	5° 5	S 6
S 7	13 3 54	17°53'15	25°31	20°17	1°40	9°43	29° 8	29° 9	27°28	28°47	12°25	14°18	14°11	19°53	5° 6	S 7
M 8	13 7 51	18°52'15	8°B 51	21°12	2°24	10°26	29° 1	29°15	27°25	28°49	12°26	14°18	14° 8	19°59	5° 6	M 8
T 9	13 11 47	19°51'13	21°52	22°10	3° 7	11° 9	28°54	29°21	27°23	28°51	12°28	14°18	14° 5	20° 6	5° 7	T 9
W10	13 15 44	20°50'08	4°M 37	23°10	3°49	11°51	28°47	29°26	27°21	28°52	12°29	14°19	14° 2	20°13	5° 7	W10
T 11	13 19 41	21°49'01	17° 8	24°14	4°30	12°34	28°40	29°31	27°18	28°54	12°30	14°20	13°58	20°19	5° 7	T 11
F 12	13 23 37	22°47'52	29°27	25°20	5°10	13°17	28°34	29°37	27°16	28°56	12°32	14°20	13°55	20°26	5° 7	F 12
S 13	13 27 34	23°46'41	11°A 36	26°28	5°48	14° 0	28°27	29°42	27°14	28°58	12°33	14°R 21	13°52	20°33	5°R 7	S 13
S 14	13 31 30	24°45'28	23°37	27°39	6°25	14°43	28°21	29°47	27°12	29° 0	12°34	14°20	13°49	20°39	5° 7	S 14
M15	13 35 27	25°44'13	5°M 33	28°52	7° 1	15°25	28°15	29°52	27° 9	29° 2	12°35	14°20	13°46	20°46	5° 7	M15
T 16	13 39 23	26°42'56	17°24	0°Y 7	7°36	16° 8	28° 9	29°57	27° 7	29° 4	12°37	14°18	13°43	20°53	5° 7	T 16
W17	13 43 20	27°41'38	29°14	1°25	8° 9	16°51	28° 3	0°K 2	27° 5	29° 6	12°38	14°17	13°39	20°59	5° 7	W17
T 18	13 47 16	28°40'17	11°A 4	2°44	8°41	17°34	27°57	0° 7	27° 3	29° 8	12°39	14°14	13°36	21° 6	5° 6	T 18
F 19	13 51 13	29°38'55	22°58	4° 6	9°12	18°17	27°51	0°12	27° 1	29°10	12°40	14°12	13°33	21°13	5° 6	F 19
S 20	13 55 10	0°B 37'31	5°B 0	5°29	9°41	18°59	27°46	0°17	26°59	29°12	12°41	14°10	13°30	21°19	5° 5	S 20
S 21	13 59 6	1°36'05	17°11	6°54	10° 8	19°42	27°40	0°21	26°57	29°14	12°43	14° 9	13°27	21°26	5° 4	S 21
M22	14 3 3	2°34'38	29°38	8°21	10°34	20°25	27°35	0°26	26°55	29°16	12°44	14°D 8	13°23	21°33	5° 4	M22
T 23	14 6 59	3°33'09	12°24	9°51	10°58	21° 8	27°30	0°30	26°53	29°18	12°45	14° 8	13°20	21°40	5° 3	T 23
W24	14 10 56	4°31'38	25°32	11°21	11°20	21°51	27°25	0°35	26°51	29°20	12°46	14° 9	13°17	21°46	5° 2	W24
T 25	14 14 52	5°30'06	9°K 5	12°54	11°40	22°33	27°20	0°39	26°49	29°22	12°47	14°11	13°14	21°53	5° 1	T 25
F 26	14 18 49	6°28'32	23° 5	14°29	11°59	23°16	27°15	0°44	26°47	29°24	12°48	14°12	13°11	22° 0	5° 0	F 26
S 27	14 22 45	7°26'56	7°Y 31	16° 5	12°16	23°59	27°10	0°48	26°46	29°26	12°49	14°R 13	13° 8	22° 6	4°58	S 27
S 28	14 26 42	8°25'19	22°20	17°43	12°30	24°42	27° 6	0°52	26°44	29°28	12°50	14°13	13° 4	22°13	4°57	S 28
M29	14 30 39	9°23'40	7°B 25	19°23	12°43	25°24	27° 2	0°56	26°42	29°31	12°51	14°12	13° 1	22°20	4°56	M29
T 30	14 34 35	10°21'59	22°B 37	21°Y 5	12°II 53	26°7	26°M 58	1°K 0	26°M 40	29°B 33	12°K 52	14°A 9	12°A 58	22°M 26	4°B 54	T 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
M 1	4n44	9n53	1s21	6s10	0s42	23n30	4n 9	19s55	1s 3	1n30	1n34	13s 4	1s11	1n38	0n47	18n14	1s39	19s 3	13s 8	5s38	5s43	14s42	17s15	6n 5	
T 2	5 7	13 32	2 38	6 8	0 53	23 46	4 13	19 46	1 4	1 33	1 34	13 2	1 11	1 39	0 47	18 15	1 39	19 2	13 8	5 38	5 42	14 43	17 14	6 6	
W 3	5 30	16 16	3 43	6 3	1 4	24 1	4 18	19 36	1 5	1 36	1 34	13 0	1 11	1 40	0 47	18 15	1 39	19 2	13 8	5 38	5 40	14 44	17 14	6 7	
T 4	5 53	17 53	4 33	5 57	1 15	24 16	4 22	19 26	1 6	1 38	1 34	12 58	1 11	1 41	0 47	18 15	1 39	19 2	13 8	5 38	5 39	14 45	17 13	6 7	
F 5	6 16	18 20	5 5	5 48	1 25	24 31	4 26	19 16	1 8	1 41	1 34	12 56	1 11	1 42	0 47	18 16	1 39	19 1	13 9	5 38	5 38	14 46	17 12	6 8	
S 6	6 38	17 38	5 18	5 38	1 34	24 44	4 30	19 6	1 9	1 44	1 34	12 55	1 11	1 43	0 47	18 16	1 38	19 1	13 9	5 38	5 37	14 47	17 12	6 9	
S 7	7 1	15 55	5 12	5 25	1 42	24 58	4 34	18 56	1 10	1 47	1 34	12 53	1 12	1 44	0 47	18 17	1 38	19 1	13 9	5 38	5 36	14 48	17 11	6 9	
M 8	7 23	13 23	4 49	5 11	1 50	25 11	4 38	18 45	1 11	1 49	1 34	12 51	1 12	1 45	0 47	18 17	1 38	19 0	13 9	5 38	5 34	14 49	17 10	6 10	
T 9	7 46	10 14	4 12	4 55	1 58	25 23	4 42	18 35	1 12	1 52	1 34	12 49	1 12	1 46	0 47	18 18	1 38	19 0	13 9	5 38	5 33	14 50	17 10	6 11	
W10	8 8	6 39	3 23	4 37	2 5	25 35	4 46	18 24	1 13	1 55	1 33	12 47	1 12	1 47	0 47	18 18	1 38	19 0	13 10	5 39	5 32	14 51	17 9	6 11	
T 11	8 30	2 51	2 25	4 18	2 11	25 46	4 49	18 13	1 14	1 57	1 33	12 46	1 12	1 48	0 47	18 18	1 38	18 59	13 10	5 39	5 31	14 52	17 8	6 12	
F 12	8 52	1s 2	1 22	3 57	2 17	25 57	4 52	18 2	1 15	2 0	1 33	12 44	1 12	1 49	0 47	18 19	1 38	18 59	13 10	5 39	5 29	14 54	17 8	6 13	
S 13	9 14	4 49	0 15	3 34	2 22	26 7	4 55	17 51	1 17	2 2	1 33	12 42	1 12	1 49	0 47	18 19	1 38	18 59	13 10	5 39	5 28	14 55	17 7	6 13	
S 14	9 35	8 22	0n51	3 10	2 26	26 16	4 58	17 39	1 18	2 5	1 33	12 41	1 13	1 50	0 47	18 20	1 38	18 58	13 11	5 39	5 27	14 56	17 6	6 14	
M15	9 57	11 33	1 55	2 45	2 30	26 25	5 1	17 28	1 19	2 7	1 33	12 39	1 13	1 51	0 47	18 20	1 38	18 58	13 11	5 39	5 26	14 57	17 6	6 15	
T 16	10 18	14 15	2 53	2 18	2 34	26 34	5 4	17 16	1 20	2 9	1 33	12 37	1 13	1 52	0 47	18 21	1 38	18 58	13 11	5 38	5 24	14 58	17 5	6 15	
W17	10 39	16 20	3 44	1 50	2 36	26 42	5 6	17 4	1 21	2 12	1 33	12 36	1 13	1 53	0 47	18 21	1 38	18 58	13 11	5 38	5 23	14 59	17 4	6 16	
T 18	11 0	17 43	4 25	1 20	2 39	26 49	5 8	16 52	1 22	2 14	1 32	12 34	1 13	1 54	0 47	18 22	1 38	18 57	13 12	5 37	5 22	15 0	17 4	6 16	
F 19	11 21	18 20	4 55	0 50	2 40	26 56	5 10	16 40	1 23	2 16	1 32	12 33	1 13	1 54	0 47	18 22	1 38	18 57	13 12	5 36	5 21	15 1	17 3	6 17	
S 20	11 41	18 8	5 12	0 18	2 41	27 2	5 12	16 28	1 25	2 18	1 32	12 31	1 14	1 55	0 47	18 23	1 38	18 57	13 12	5 35	5 19	15 2	17 2	6 18	
S 21	12 2	17 6	5 16	0n15	2 42	27 8	5 14	16 15	1 26	2 20	1 32	12 30	1 14	1 56	0 47	18 23	1 38	18 57	13 12	5 35	5 18	15 3	17 2	6 18	
M22	12 22	15 15	5 5	0 50	2 42	27 13	5 15	16 3	1 27	2 22	1 32	12 28	1 14	1 57	0 47	18 23	1 38	18 57	13 13	5 34	5 17	15 4	17 1	6 19	
T 23	12 42	12 37	4 39	1 25	2 42	27 17	5 16	15 50	1 28	2 24	1 32	12 27	1 14	1 57	0 47	18 24	1 38	18 56	13 13	5 34	5 16	15 5	17 1	6 20	
W24	13 2	9 17	3 57	2 2	2 41	27 21	5 16	15 38	1 29	2 26	1 32	12 25	1 14	1 58	0 47	18 24	1 38	18 56	13 13	5 35	5 15	15 6	17 0	6 20	
T 25	13 21	5 21	3 2	2 39	2 39	27 24	5 17	15 25	1 30	2 28	1 31	12 24	1 14	1 59	0 47	18 25	1 38	18 56	13 13	5 35	5 13	15 7	16 59	6 21	
F 26	13 40	1 0	1 54	3 18	2 37	27 27	5 17	15 12	1 32	2 29	1 31	12 22	1 15	2 0	0 47	18 25	1 38	18 56	13 14	5 36	5 12	15 8	16 59	6 22	
S 27	13 59	3n33	0 37	3 57	2 34	27 29	5 17	14 59	1 33	2 31	1 31	12 21	1 15	2 0	0 47	18 26	1 38	18 56	13 14	5 36	5 11	15 9	16 58	6 22	
S 28	14 18	8 0	0s45	4 37	2 31	27 30	5 16	14 46	1 34	2 33	1 31	12 20	1 15	2 1	0 47	18 26	1 38	18 56	13 14	5 36	5 10	15 10	16 58	6 23	
M29	14 37	12 1	2 4	5 18	2 28	27 31	5 15	14 32	1 35	2 34	1 31	12 19	1 15	2 2	0 47	18 27	1 38	18 55	13 15	5 36	5 8	15 11	16 57	6 23	
T 30	14n55	15n16	3s16	6n 0	2s23	27n31	5n13	14s19	1s36	2n35	1n30	12s17	1s15	2n 2	0n47	18n27	1s38	18s55	13s15	5s35	5s 7	15s12	16s57	6n24	

# ASTRODIENST EPHEMERIS for the year 2052

## geocentric

MAY 2052

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 38 32	11°20'17	7°11'47	22°48'13	13°11'1	26°50'50	26°54'54	1°48'4	26°39'39	29°35'35	12°53'53	14°R 6	12°55'55	22°33'33	4°R53	W 1
T 2	14 42 28	12°18'33	22°44'18	24°33'13	13°7	27°33'33	26°50'50	1°8	26°37'37	29°37'37	12°54'54	14°2	12°52'52	22°40'40	4°51	T 2
F 3	14 46 25	13°16'46	7°22'22	26°20'20	13°11	28°15'15	26°46'46	1°12	26°36'36	29°39'39	12°55'55	13°58	12°48'48	22°46'46	4°49	F 3
S 4	14 50 21	14°14'58	21°35'35	28°9	13°R12	28°58'58	26°43'43	1°15	26°34'34	29°41'41	12°56'56	13°55	12°45'45	22°53'53	4°48	S 4
S 5	14 54 18	15°13'08	5°21'21	29°59'59	13°12	29°40'40	26°40'40	1°19	26°33'33	29°44'44	12°57'57	13°54	12°42'42	23°0'0	4°46	S 5
M 6	14 58 14	16°11'15	18°41'41	1°52'52	13°8	0°23'23	26°37'37	1°22	26°31'31	29°46'46	12°58'58	13°D53	12°39'39	23°6'6	4°44	M 6
T 7	15 2 11	17°9'21	1°37'37	3°47'47	13°2	1°6'6	26°34'34	1°26	26°30'30	29°48'48	12°59'59	13°54	12°36'36	23°13'13	4°42	T 7
W 8	15 6 8	18°7'24	14°13'13	5°43'43	12°54	1°48'48	26°31'31	1°29	26°29'29	29°50'50	13°0'0	13°56	12°33'33	23°20'20	4°40	W 8
T 9	15 10 4	19°5'26	26°32'32	7°41'41	12°43	2°31'31	26°29'29	1°32	26°27'27	29°52'52	13°0'0	13°57	12°29'29	23°26'26	4°38	T 9
F 10	15 14 1	20°3'26	8°40'40	9°40'40	12°30	3°13'13	26°26'26	1°35	26°26'26	29°55'55	13°1'1	13°R58	12°26'26	23°33'33	4°35	F 10
S 11	15 17 57	21°1'24	20°38'38	11°41'41	12°14	3°56'56	26°24'24	1°39	26°25'25	29°57'57	13°2'2	13°58	12°23'23	23°40'40	4°33	S 11
S 12	15 21 54	21°59'21	2°31'31	13°44'44	11°56	4°38'38	26°22'22	1°42	26°24'24	29°59'59	13°3'3	13°56	12°20'20	23°46'46	4°31	S 12
M13	15 25 50	22°57'15	14°21'21	15°49'49	11°36	5°21'21	26°20'20	1°44	26°23'23	0°11'11	13°3'3	13°53	12°17'17	23°53'53	4°28	M13
T 14	15 29 47	23°55'09	26°11'11	17°55'55	11°13	6°3'3	26°19'19	1°47	26°22'22	0°4'4	13°4'4	13°47	12°14'14	24°0'0	4°26	T 14
W15	15 33 43	24°53'00	8°2'2	20°2'2	10°49	6°45'45	26°17'17	1°50	26°21'21	0°6'6	13°5'5	13°41	12°10'10	24°6'6	4°23	W15
T 16	15 37 40	25°50'51	19°56'56	22°11'11	10°22	7°28'28	26°16'16	1°53	26°20'20	0°8'8	13°5'5	13°33	12°7'7	24°13'13	4°20	T 16
F 17	15 41 37	26°48'40	1°35'56	24°20'20	9°53	8°10'10	26°15'15	1°55	26°19'19	0°10'10	13°6'6	13°25	12°4'4	24°20'20	4°18	F 17
S 18	15 45 33	27°46'28	14°2'2	26°31'31	9°22	8°52'52	26°14'14	1°58	26°18'18	0°13'13	13°7'7	13°18	12°1'1	24°26'26	4°15	S 18
S 19	15 49 30	28°44'14	26°18'18	28°42'42	8°50	9°35'35	26°13'13	2°0	26°17'17	0°15'15	13°7'7	13°12	11°58'58	24°33'33	4°12	S 19
M20	15 53 26	29°41'59	8°22'22	0°53'53	8°16	10°17'17	26°12'12	2°2	26°17'17	0°17'17	13°8'8	13°8	11°54'54	24°40'40	4°9	M20
T 21	15 57 23	0°39'44	21°30'30	3°5'5	7°42'42	10°59'59	26°12'12	2°4	26°16'16	0°19'19	13°8'8	13°5	11°51'51	24°47'47	4°6	T 21
W22	16 1 19	1°37'27	4°33'33	5°16'16	7°6'6	11°41'41	26°12'12	2°6	26°15'15	0°22'22	13°9'9	13°D 5	11°48'48	24°53'53	4°3	W22
T 23	16 5 16	2°35'09	17°58'58	7°27'27	6°29	12°23'23	26°D12	2°8	26°15'15	0°24'24	13°9'9	13°6	11°45'45	25°0'0	4°0	T 23
F 24	16 9 12	3°32'50	1°49'49	9°37'37	5°52	13°5'5	26°12'12	2°10	26°14'14	0°26'26	13°10'10	13°7	11°42'42	25°7'7	3°57	F 24
S 25	16 13 9	4°30'30	1°6'4	11°46'46	5°14	13°47'47	26°12'12	2°12	26°14'14	0°28'28	13°10'10	13°R 7	11°39'39	25°13'13	3°54	S 25
S 26	16 17 5	5°28'09	0°8'44	13°54'54	4°37	14°29'29	26°13'13	2°14	26°13'13	0°30'30	13°11'11	13°6	11°35'35	25°20'20	3°51	S 26
M27	16 21 2	6°25'47	15°44'44	16°1'1	3°59	15°11'11	26°14'14	2°15	26°13'13	0°33'33	13°11'11	13°3	11°32'32	25°27'27	3°47	M27
T 28	16 24 59	7°23'24	0°56'56	18°6'6	3°22	15°53'53	26°15'15	2°17	26°13'13	0°35'35	13°12'12	12°57	11°29'29	25°33'33	3°44	T 28
W29	16 28 55	8°21'00	16°11'11	20°8'8	2°45	16°35'35	26°16'16	2°18	26°12'12	0°37'37	13°12'12	12°50	11°26'26	25°40'40	3°41	W29
T 30	16 32 52	9°18'35	1°37'17	22°9'9	2°10	17°16'16	26°17'17	2°20	26°12'12	0°39'39	13°12'12	12°41	11°23'23	25°47'47	3°37	T 30
F 31	16 36 48	10°16'08	16°5'5	24°8'8	1°35	17°58'58	26°18'18	2°21	26°12'12	0°41'41	13°13'13	12°43	11°20'20	25°53'53	3°34	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n14	17n26	4s13	6n43	2s19	27n30	5n12	14s 5	1s37	2n37	1n30	12s16	1s16	2n 3	0n47	18n28
T 2	15 31	18 22	4 52	7 27	2 13	27 29	5 9	13 52	1 39	2 38	1 30	12 15	1 16	2 3	0 47	18 28
F 3	15 49	18 3	5 11	8 11	2 8	27 27	5 7	13 38	1 40	2 39	1 30	12 14	1 16	2 4	0 47	18 29
S 4	16 7	16 35	5 11	8 55	2 1	27 24	5 4	13 24	1 41	2 41	1 30	12 13	1 16	2 5	0 47	18 29
S 5	16 24	14 12	4 52	9 41	1 55	27 20	5 0	13 11	1 42	2 42	1 29	12 11	1 16	2 5	0 47	18 30
M 6	16 40	11 8	4 18	10 26	1 48	27 15	4 56	12 57	1 43	2 43	1 29	12 10	1 16	2 6	0 47	18 31
T 7	16 57	7 36	3 31	11 12	1 40	27 10	4 51	12 43	1 45	2 44	1 29	12 9	1 17	2 6	0 47	18 31
W 8	17 13	3 49	2 36	11 59	1 32	27 4	4 46	12 29	1 46	2 45	1 29	12 8	1 17	2 7	0 46	18 31
T 9	17 29	0s 4	1 34	12 45	1 23	26 57	4 40	12 14	1 47	2 45	1 29	12 7	1 17	2 7	0 46	18 32
F 10	17 45	3 53	0 29	13 32	1 15	26 49	4 34	12 0	1 48	2 46	1 28	12 6	1 17	2 8	0 46	18 32
S 11	18 0	7 30	0n36	14 18	1 5	26 40	4 27	11 46	1 49	2 47	1 28	12 5	1 17	2 8	0 46	18 33
S 12	18 15	10 47	1 39	15 4	0 56	26 30	4 20	11 31	1 51	2 47	1 28	12 5	1 18	2 8	0 46	18 33
M13	18 30	13 38	2 38	15 50	0 46	26 20	4 12	11 17	1 52	2 48	1 28	12 4	1 18	2 9	0 46	18 33
T 14	18 45	15 54	3 29	16 35	0 36	26 8	4 3	11 2	1 53	2 48	1 27	12 3	1 18	2 9	0 46	18 34
W15	18 59	17 30	4 12	17 20	0 25	25 55	3 54	10 48	1 54	2 49	1 27	12 2	1 18	2 10	0 46	18 34
T 16	19 13	18 21	4 43	18 4	0 15	25 42	3 45	10 33	1 55	2 49	1 27	12 1	1 18	2 10	0 46	18 35
F 17	19 26	18 22	5 2	18 47	0 4	25 27	3 34	10 18	1 56	2 49	1 27	12 1	1 19	2 10	0 46	18 35
S 18	19 39	17 35	5 9	19 28	0n 6	25 12	3 23	10 3	1 58	2 49	1 27	12 0	1 19	2 11	0 46	18 36
S 19	19 52	15 58	5 1	20 8	0 17	24 56	3 12	9 49	1 59	2 49	1 26	11 59	1 19	2 11	0 46	18 36
M20	20 5	13 35	4 39	20 46	0 27	24 39	3 0	9 34	2 0	2 49	1 26	11 59	1 19	2 11	0 46	18 37
T 21	20 17	10 30	4 2	21 22	0 37	24 21	2 48	9 19	2 1	2 49	1 26	11 58	1 19	2 11	0 46	18 37
W22	20 29	6 51	3 13	21 57	0 47	24 2	2 35	9 4	2 2	2 49	1 26	11 58	1 20	2 11	0 46	18 38
T 23	20 40	2 44	2 11	22 29	0 57	23 43	2 22	8 49	2 4	2 49	1 25	11 57	1 20	2 12	0 46	18 38
F 24	20 51	1n39	1 1	22 58	1 6	23 23	2 9	8 34	2 5	2 49	1 25	11 57	1 20	2 12	0 46	18 39
S 25	21 2	6 4	0s16	23 25	1 15	23 3	1 55	8 19	2 6	2 48	1 25	11 56	1 20	2 12	0 46	18 39
S 26	21 12	10 16	1 33	23 50	1 23	22 42	1 41	8 4	2 7	2 48	1 25	11 56	1 20	2 12	0 46	18 40
M27	21 22	13 54	2 46	24 12	1 30	22 21	1 27	7 49	2 8	2 47	1 24	11 55	1 21	2 12	0 46	18 40
T 28	21 32	16 37	3 48	24 31	1 37	22 0	1 13	7 33	2 10	2 47	1 24	11 55	1 21	2 12	0 46	18 41
W29	21 41	18 11	4 33	24 47	1 44	21 39	0 58	7 18	2 11	2 46	1 24	11 55	1 21	2 12	0 46	18 41
T 30	21 50	18 26	5 0	25 1	1 49	21 18	0 44	7 3	2 12	2 46	1 24	11 54	1 21	2 12	0 46	18 41
F 31	21n59	17n25	5s 5	25n12	1n54	20n57	0n30	6s48	2s13	2n45	1n23	11s54	1s21	2n12	0n46	18n42

Julian Day Number = 2470658.5, Delta T = 75.27 sec

Ecliptic obliquity = 23°25'48", Nutation = 0°00'03", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°28'17", Lahiri = 24°35'17"



ASTRODIENST EPHEMERIS for the year 2052  
geocentric

JUNE 2052

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 40 45	11Ⅱ13'41	0♂28	26Ⅱ 4	1°R 2	18Ⅰ39	26Ⅱ20	2Ⅰ22	26°R12	0Ⅱ44	13Ⅰ13	12°R26	11♂16	26Ⅱ 0	3°R30	S 1
S 2	16 44 41	12°11'11	14°23	27°58	0Ⅱ30	19°21	26°22	2°23	26Ⅱ12	0°46	13°13	12♂20	11°13	26° 7	3♂27	S 2
M 3	16 48 38	13° 8'41	27°48	29°49	29♂59	20° 2	26°24	2°24	26°D12	0°48	13°13	12°17	11°10	26°13	3°23	M 3
T 4	16 52 35	14° 6'09	10Ⅱ46	19♂38	29°31	20°44	26°26	2°25	26°12	0°51	13°14	12°D16	11° 7	26°20	3°19	T 4
W 5	16 56 31	15° 3'36	23°20	3°24	29° 5	21°25	26°28	2°25	26°12	0°53	13°14	12°16	11° 4	26°27	3°16	W 5
T 6	17 0 28	16° 1'02	5♂36	5° 7	28°40	22° 6	26°31	2°26	26°12	0°55	13°14	12°17	11° 0	26°33	3°12	T 6
F 7	17 4 24	16°58'27	17°39	6°48	28°18	22°47	26°33	2°26	26°12	0°57	13°14	12°R17	10°57	26°40	3° 8	F 7
S 8	17 8 21	17°55'50	29°33	8°26	27°58	23°29	26°36	2°27	26°13	0°59	13°14	12°16	10°54	26°47	3° 4	S 8
S 9	17 12 17	18°53'13	11Ⅱ22	10° 1	27°40	24°10	26°39	2°27	26°13	1° 1	13°14	12°12	10°51	26°53	3° 1	S 9
M10	17 16 14	19°50'34	23°11	11°33	27°25	24°50	26°42	2°27	26°13	1° 4	13°14	12° 5	10°48	27° 0	2°57	M10
T 11	17 20 10	20°47'55	5♂ 2	13° 3	27°12	25°31	26°46	2°27	26°14	1° 6	13°14	11°57	10°45	27° 7	2°53	T 11
W12	17 24 7	21°45'15	16°57	14°30	27° 1	26°12	26°49	2°R27	26°14	1° 8	13°14	11°46	10°41	27°14	2°49	W12
T 13	17 28 4	22°42'34	28°58	15°54	26°53	26°53	26°53	2°27	26°15	1°10	13°R14	11°33	10°38	27°20	2°45	T 13
F 14	17 32 0	23°39'53	11♂ 6	17°15	26°47	27°33	26°57	2°27	26°15	1°12	13°14	11°21	10°35	27°27	2°41	F 14
S 15	17 35 57	24°37'11	23°23	18°33	26°43	28°14	27° 1	2°27	26°16	1°14	13°14	11° 9	10°32	27°34	2°37	S 15
S 16	17 39 53	25°34'28	5♂49	19°49	26°D42	28°54	27° 5	2°27	26°17	1°16	13°14	10°59	10°29	27°40	2°34	S 16
M17	17 43 50	26°31'45	18°26	21° 1	26°43	29°35	27° 9	2°26	26°17	1°18	13°14	10°51	10°26	27°47	2°30	M17
T 18	17 47 46	27°29'01	1Ⅰ16	22°10	26°47	0Ⅱ15	27°13	2°26	26°18	1°21	13°14	10°47	10°22	27°54	2°26	T 18
W19	17 51 43	28°26'18	14°21	23°16	26°53	0°55	27°18	2°25	26°19	1°23	13°14	10°44	10°19	28° 0	2°22	W19
T 20	17 55 39	29°23'34	27°44	24°19	27° 1	1°35	27°23	2°24	26°20	1°25	13°14	10°D44	10°16	28° 7	2°18	T 20
F 21	17 59 36	0♂20'49	11Ⅱ26	25°18	27°11	2°15	27°28	2°23	26°21	1°27	13°14	10°R44	10°13	28°14	2°14	F 21
S 22	18 3 33	1°18'05	25°30	26°15	27°23	2°54	27°33	2°22	26°22	1°29	13°13	10°43	10°10	28°20	2°10	S 22
S 23	18 7 29	2°15'21	9♂56	27° 7	27°37	3°34	27°38	2°21	26°23	1°31	13°13	10°41	10° 6	28°27	2° 6	S 23
M24	18 11 26	3°12'36	24°40	27°56	27°54	4°14	27°43	2°20	26°24	1°33	13°13	10°36	10° 3	28°34	2° 2	M24
T 25	18 15 22	4° 9'51	9Ⅱ38	28°42	28°12	4°53	27°49	2°19	26°25	1°35	13°13	10°29	10° 0	28°41	1°58	T 25
W26	18 19 19	5° 7'07	24°41	29°23	28°32	5°32	27°55	2°18	26°26	1°37	13°12	10°19	9°57	28°47	1°54	W26
T 27	18 23 15	6° 4'22	9♂40	0♂ 1	28°53	6°11	28° 0	2°16	26°28	1°39	13°12	10° 8	9°54	28°54	1°50	T 27
F 28	18 27 12	7° 1'36	24°25	0°35	29°17	6°50	28° 6	2°15	26°29	1°40	13°12	9°57	9°51	29° 1	1°46	F 28
S 29	18 31 8	7°58'51	8♂49	1° 5	29°42	7°29	28°12	2°13	26°30	1°42	13°11	9°47	9°47	29° 7	1°42	S 29
S 30	18 35 5	8♂56'05	22♂46	1♂30	0Ⅱ 8	8Ⅱ 8	28Ⅱ19	2Ⅰ11	26Ⅱ32	1Ⅱ44	13Ⅰ11	9♂40	9♂44	29Ⅱ14	1♂38	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	decl lat	decl lat
S 1	22n 7	15n18 4s51	25n20 1n58	20n37 0n16	6s33 2s14	2n44 1n23	11s54 1s22	2n12 0n46	18n42 1s37	18s57 13s26	4s55 4s27	15s43 16s43	6n40			
S 2	22 15	12 22 4 19	25 26 2 2	20 17 0 2	6 17 2 15	2 43 1 23	11 54 1 22	2 12 0 45	18 43 1 37	18 57 13 26	4 53 4 26	15 44 16 43	6 40			
M 3	22 22	8 52 3 35	25 30 2 4	19 57 0s12	6 2 2 17	2 42 1 23	11 54 1 22	2 12 0 45	18 43 1 37	18 58 13 26	4 51 4 25	15 45 16 43	6 40			
T 4	22 29	5 3 2 40	25 31 2 6	19 38 0 25	5 47 2 18	2 41 1 23	11 54 1 22	2 12 0 45	18 44 1 37	18 58 13 27	4 51 4 24	15 46 16 43	6 41			
W 5	22 36	1 7 1 40	25 30 2 7	19 19 0 39	5 32 2 19	2 40 1 22	11 53 1 23	2 12 0 45	18 44 1 38	18 58 13 27	4 51 4 22	15 47 16 42	6 41			
T 6	22 42	2s46 0 36	25 27 2 7	19 1 0 51	5 16 2 20	2 39 1 22	11 53 1 23	2 12 0 45	18 45 1 38	18 58 13 28	4 51 4 21	15 48 16 42	6 41			
F 7	22 48	6 29 0n29	25 22 2 7	18 44 1 4	5 1 2 21	2 37 1 22	11 53 1 23	2 12 0 45	18 45 1 38	18 59 13 28	4 51 4 20	15 49 16 42	6 42			
S 8	22 53	9 53 1 31	25 15 2 5	18 28 1 16	4 46 2 22	2 36 1 22	11 54 1 23	2 12 0 45	18 45 1 38	18 59 13 28	4 51 4 19	15 50 16 42	6 42			
S 9	22 58	12 53 2 28	25 6 2 3	18 12 1 28	4 31 2 23	2 35 1 21	11 54 1 23	2 12 0 45	18 46 1 38	18 59 13 29	4 49 4 18	15 51 16 42	6 42			
M10	23 2	15 20 3 20	24 56 2 1	17 58 1 39	4 16 2 24	2 33 1 21	11 54 1 24	2 12 0 45	18 46 1 38	18 59 13 29	4 47 4 16	15 52 16 42	6 42			
T 11	23 7	17 9 4 2	24 44 1 57	17 45 1 50	4 0 2 26	2 32 1 21	11 54 1 24	2 11 0 45	18 47 1 38	19 0 13 29	4 43 4 15	15 52 16 41	6 43			
W12	23 10	18 14 4 34	24 30 1 53	17 32 2 0	3 45 2 27	2 30 1 21	11 54 1 24	2 11 0 45	18 47 1 38	19 0 13 30	4 39 4 14	15 53 16 41	6 43			
T 13	23 14	18 31 4 54	24 16 1 48	17 20 2 10	3 30 2 28	2 28 1 20	11 54 1 24	2 11 0 45	18 48 1 38	19 0 13 30	4 34 4 13	15 54 16 41	6 43			
F 14	23 17	17 58 5 1	24 0 1 42	17 10 2 20	3 15 2 29	2 27 1 20	11 55 1 24	2 11 0 45	18 48 1 38	19 1 13 30	4 29 4 11	15 55 16 41	6 43			
S 15	23 19	16 34 4 55	23 43 1 36	17 0 2 29	3 0 2 29	2 25 1 20	11 55 1 25	2 10 0 45	18 48 1 38	19 1 13 31	4 25 4 10	15 56 16 41	6 43			
S 16	23 21	14 23 4 34	23 26 1 28	16 52 2 37	2 45 2 31	2 23 1 20	11 55 1 25	2 10 0 45	18 49 1 38	19 1 13 31	4 21 4 9	15 57 16 41	6 44			
M17	23 23	11 30 4 0	23 7 1 21	16 44 2 45	2 30 2 32	2 21 1 20	11 56 1 25	2 10 0 45	18 49 1 38	19 2 13 31	4 18 4 8	15 58 16 41	6 44			
T 18	23 24	8 1 3 13	22 48 1 12	16 37 2 53	2 15 2 33	2 19 1 19	11 56 1 25	2 9 0 45	18 50 1 38	19 2 13 32	4 16 4 6	15 59 16 41	6 44			
W19	23 25	4 5 2 15	22 28 1 3	16 32 3 0	2 0 2 34	2 17 1 19	11 56 1 25	2 9 0 45	18 50 1 38	19 3 13 32	4 15 4 5	16 0 16 40	6 44			
T 20	23 26	0n 9 1 8	22 7 0 53	16 27 3 7	1 45 2 35	2 15 1 19	11 57 1 26	2 8 0 45	18 50 1 38	19 3 13 33	4 15 4 4	16 0 16 40	6 44			
F 21	23 26	4 28 0s 4	21 46 0 43	16 23 3 13	1 30 2 37	2 13 1 19	11 57 1 26	2 8 0 45	18 51 1 38	19 3 13 33	4 15 4 3	16 1 16 40	6 44			
S 22	23 25	8 39 1 17	21 25 0 32	16 20 3 19	1 15 2 38	2 10 1 18	11 58 1 26	2 8 0 45	18 51 1 38	19 4 13 33	4 14 4 1	16 2 16 40	6 45			
S 23	23 25	12 27 2 28	21 4 0 21	16 17 3 25	1 1 2 39	2 8 1 18	11 58 1 26	2 7 0 45	18 52 1 38	19 4 13 34	4 14 4 0	16 3 16 40	6 45			
M24	23 23	15 32 3 30	20 42 0 9	16 16 3 30	0 46 2 40	2 6 1 18	11 59 1 26	2 7 0 45	18 52 1 38	19 5 13 34	4 12 3 59	16 4 16 40	6 45			
T 25	23 22	17 37 4 19	20 21 0s 4	16 15 3 35	0 31 2 41	2 3 1 18	12 0 1 27	2 6 0 44	18 52 1 38	19 5 13 34	4 9 3 58	16 5 16 40	6 45			
W26	23 20	18 30 4 50	19 59 0 17	16 15 3 40	0 17 2 42	2 1 1 18	12 0 1 27	2 6 0 44	18 53 1 38	19 5 13 35	4 5 3 56	16 6 16 40	6 45			
T 27	23 17	18 5 5 1	19 38 0 31	16 16 3 44	0 2 2 43	1 59 1 17	12 1 1 27	2 5 0 44	18 53 1 38	19 6 13 35	4 1 3 55	16 7 16 40	6 45			
F 28	23 15	16 27 4 51	19 17 0 45	16 17 3 47	0n12 2 44	1 56 1 17	12 2 1 27	2 5 0 44	18 53 1 38	19 6 13 35	3 56 3 54	16 7 16 40	6 45			
S 29	23 11	13 49 4 23	18 57 0 59	16 19 3 51	0 27 2 45	1 53 1 17	12 3 1 27	2 4 0 44	18 54 1 38	19 7 13 36	3 53 3 53	16 8 16 40	6 45			
S 30	23n 8	10n27 3s40	18n37 1s14	16n22 3s54	0n41 2s46	1n51 1n17	12s 3 1s28	2n 3 0n44	18n54 1s38	19s 7 13s36	3s50 3s51	16s 9 16s40	6n45			

Julian Day Number = 2470689.5, Delta T = 75.29 sec  
Ecliptic obliquity = 23°25'47, Nutation = 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°28'21, Lahiri = 24°35'22

ASTRODIENST EPHEMERIS for the year 2052  
geocentric

JULY 2052

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 39 2	9♌53'18	6♍14	1♏51	0♐36	8♑47	28♒25	2°R 9	26♓33	1♑46	13°R10	9°R35	9♒41	29♓21	1°R34	M 1
T 2	18 42 58	10°50'31	19°15	2° 8	1° 6	9°25	28°32	2♊ 8	26°35	1°48	13♋10	9♓32	9°38	29°27	1♌30	T 2
W 3	18 46 55	11°47'44	1♌52	2°20	1°37	10° 3	28°38	2° 6	26°36	1°50	13°10	9°31	9°35	29°34	1°26	W 3
T 4	18 50 51	12°44'56	14° 9	2°27	2°10	10°41	28°45	2° 3	26°38	1°52	13° 9	9°31	9°32	29°41	1°23	T 4
F 5	18 54 48	13°42'09	26°12	2°R30	2°43	11°19	28°52	2° 1	26°39	1°53	13° 9	9°31	9°28	29°47	1°19	F 5
S 6	18 58 44	14°39'20	8♎ 6	2°28	3°18	11°57	28°59	1°59	26°41	1°55	13° 8	9°29	9°25	29°54	1°15	S 6
S 7	19 2 41	15°36'32	19°55	2°21	3°54	12°35	29° 6	1°57	26°43	1°57	13° 7	9°25	9°22	0♌ 1	1°11	S 7
M 8	19 6 37	16°33'44	1♌45	2°10	4°32	13°12	29°13	1°54	26°45	1°59	13° 7	9°19	9°19	0° 7	1° 7	M 8
T 9	19 10 34	17°30'55	13°40	1°54	5°10	13°49	29°21	1°52	26°47	2° 0	13° 6	9°10	9°16	0°14	1° 4	T 9
W10	19 14 31	18°28'07	25°41	1°34	5°50	14°26	29°28	1°49	26°48	2° 2	13° 6	8°58	9°12	0°21	1° 0	W10
T 11	19 18 27	19°25'18	7♌51	1°10	6°31	15° 3	29°36	1°47	26°50	2° 4	13° 5	8°46	9° 9	0°28	0°56	T 11
F 12	19 22 24	20°22'30	20°11	0°42	7°12	15°40	29°44	1°44	26°52	2° 5	13° 4	8°33	9° 6	0°34	0°53	F 12
S 13	19 26 20	21°19'42	2♌43	0°11	7°55	16°17	29°52	1°41	26°54	2° 7	13° 4	8°21	9° 3	0°41	0°49	S 13
S 14	19 30 17	22°16'54	15°25	29♌36	8°39	16°53	29°59	1°38	26°56	2° 9	13° 3	8°10	9° 0	0°48	0°46	S 14
M15	19 34 13	23°14'07	28°18	29° 0	9°23	17°29	0♐ 8	1°35	26°59	2°10	13° 2	8° 2	8°57	0°54	0°42	M15
T 16	19 38 10	24°11'20	11♋22	28°21	10° 9	18° 5	0°16	1°32	27° 1	2°12	13° 2	7°57	8°53	1° 1	0°39	T 16
W17	19 42 6	25° 8'33	24°39	27°41	10°55	18°41	0°25	1°29	27° 3	2°13	13° 1	7°55	8°50	1° 8	0°35	W17
T 18	19 46 3	26° 5'48	8♑ 8	27° 1	11°42	19°16	0°33	1°26	27° 5	2°15	13° 0	7°D54	8°47	1°14	0°32	T 18
F 19	19 50 0	27° 3'02	21°51	26°21	12°30	19°51	0°42	1°23	27° 7	2°16	12°59	7°R54	8°44	1°21	0°29	F 19
S 20	19 53 56	28° 0'18	5♊50	25°41	13°18	20°26	0°50	1°19	27°10	2°18	12°58	7°54	8°41	1°28	0°25	S 20
S 21	19 57 53	28°57'35	20° 3	25° 3	14° 8	21° 1	0°59	1°16	27°12	2°19	12°58	7°53	8°37	1°35	0°22	S 21
M22	20 1 49	29°54'52	4♐30	24°28	14°58	21°36	1° 8	1°12	27°15	2°20	12°57	7°49	8°34	1°41	0°19	M22
T 23	20 5 46	0♏52'10	19° 6	23°55	15°49	22°10	1°17	1° 9	27°17	2°22	12°56	7°43	8°31	1°48	0°16	T 23
W24	20 9 42	1°49'29	3♌47	23°26	16°40	22°44	1°26	1° 5	27°20	2°23	12°55	7°34	8°28	1°55	0°13	W24
T 25	20 13 39	2°46'49	18°25	23° 1	17°32	23°18	1°36	1° 2	27°22	2°24	12°54	7°25	8°25	2° 1	0°10	T 25
F 26	20 17 35	3°44'10	2♏53	22°40	18°25	23°51	1°45	0°58	27°25	2°26	12°53	7°15	8°22	2° 8	0° 7	F 26
S 27	20 21 32	4°41'31	17° 4	22°24	19°18	24°24	1°54	0°54	27°27	2°27	12°52	7° 6	8°18	2°15	0° 4	S 27
S 28	20 25 29	5°38'52	0♍54	22°14	20°11	24°57	2° 4	0°50	27°30	2°28	12°51	6°59	8°15	2°21	0° 1	S 28
M29	20 29 25	6°36'15	14°18	22°D 9	21° 6	25°30	2°14	0°46	27°33	2°29	12°50	6°55	8°12	2°28	29♌58	M29
T 30	20 33 22	7°33'37	27°19	22°11	22° 0	26° 2	2°23	0°42	27°35	2°31	12°49	6°53	8° 9	2°35	29°56	T 30
W31	20 37 18	8♏31'01	9♌56	22♌18	22♐56	26♑34	2♌33	0♋38	27♓38	2♐32	12♋48	6°D52	8♌ 6	2♌41	29♌53	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23n 4	6n38	2s46	18n18	1s29	16n25	3s57	0n55	2s47	1n48	1n16	12s 4	1s28	2n 3	0n44	18n54
T 2	22 59	2 38	1 45	17 59	1 44	16 28	3 59	1 10	2 48	1 45	1 16	12 5	1 28	2 2	0 44	18 55
W 3	22 54	1s22	0 40	17 41	2 0	16 32	4 1	1 24	2 49	1 42	1 16	12 6	1 28	2 1	0 44	18 55
T 4	22 49	5 12	0n25	17 25	2 15	16 37	4 3	1 38	2 50	1 39	1 16	12 7	1 28	2 1	0 44	18 55
F 5	22 43	8 45	1 27	17 9	2 31	16 41	4 5	1 52	2 51	1 37	1 16	12 8	1 29	2 0	0 44	18 56
S 6	22 37	11 55	2 25	16 55	2 46	16 47	4 6	2 5	2 52	1 34	1 15	12 9	1 29	1 59	0 44	18 56
S 7	22 31	14 33	3 16	16 41	3 1	16 52	4 7	2 19	2 52	1 30	1 15	12 10	1 29	1 59	0 44	18 56
M 8	22 24	16 36	3 59	16 29	3 16	16 58	4 8	2 33	2 53	1 27	1 15	12 11	1 29	1 58	0 44	18 57
T 9	22 17	17 56	4 32	16 19	3 30	17 4	4 9	2 46	2 54	1 24	1 15	12 12	1 29	1 57	0 44	18 57
W10	22 9	18 29	4 53	16 10	3 44	17 11	4 9	3 0	2 55	1 21	1 15	12 13	1 30	1 56	0 44	18 57
T 11	22 1	18 12	5 0	16 2	3 57	17 17	4 9	3 13	2 56	1 18	1 15	12 14	1 30	1 56	0 44	18 58
F 12	21 53	17 3	4 54	15 56	4 9	17 24	4 9	3 26	2 57	1 15	1 14	12 15	1 30	1 55	0 44	18 58
S 13	21 44	15 6	4 34	15 52	4 20	17 31	4 9	3 40	2 58	1 11	1 14	12 17	1 30	1 54	0 44	18 58
S 14	21 35	12 23	4 0	15 50	4 30	17 38	4 9	3 53	2 59	1 8	1 14	12 18	1 30	1 53	0 44	18 58
M15	21 26	9 2	3 13	15 49	4 38	17 46	4 8	4 6	3 0	1 5	1 14	12 19	1 31	1 52	0 44	18 59
T 16	21 16	5 12	2 16	15 49	4 51	17 53	4 7	4 18	3 0	1 1	1 14	12 20	1 31	1 51	0 44	18 59
W17	21 6	1 4	1 10	15 51	4 45	18 0	4 7	4 31	3 1	0 58	1 13	12 21	1 31	1 50	0 44	18 59
T 18	20 55	3n12	0s 1	15 55	4 55	18 8	4 5	4 44	3 2	0 54	1 13	12 23	1 31	1 49	0 44	18 59
F 19	20 44	7 23	1 13	16 0	4 57	18 15	4 4	4 56	3 3	0 50	1 13	12 24	1 31	1 49	0 44	19 0
S 20	20 33	11 13	2 23	16 7	4 58	18 22	4 3	5 9	3 4	0 47	1 13	12 25	1 31	1 48	0 43	19 0
S 21	20 22	14 28	3 24	16 15	4 57	18 30	4 1	5 21	3 4	0 43	1 13	12 27	1 32	1 47	0 43	19 0
M22	20 10	16 52	4 14	16 24	4 54	18 37	3 59	5 33	3 5	0 39	1 13	12 28	1 32	1 46	0 43	19 0
T 23	19 57	18 12	4 47	16 34	4 49	18 44	3 57	5 45	3 6	0 36	1 12	12 30	1 32	1 45	0 43	19 1
W24	19 45	18 20	5 2	16 45	4 43	18 51	3 55	5 57	3 7	0 32	1 12	12 31	1 32	1 44	0 43	19 1
T 25	19 32	17 15	4 58	16 56	4 36	18 58	3 53	6 9	3 7	0 28	1 12	12 33	1 32	1 43	0 43	19 1
F 26	19 19	15 4	4 34	17 8	4 27	19 5	3 51	6 20	3 8	0 24	1 12	12 34	1 32	1 41	0 43	19 1
S 27	19 5	12 0	3 53	17 21	4 16	19 12	3 49	6 32	3 9	0 20	1 12	12 35	1 32	1 40	0 43	19 1
S 28	18 51	8 21	3 0	17 34	4 5	19 19	3 46	6 43	3 9	0 16	1 12	12 37	1 33	1 39	0 43	19 2
M29	18 37	4 22	1 58	17 47	3 52	19 25	3 43	6 54	3 10	0 12	1 11	12 38	1 33	1 38	0 43	19 2
T 30	18 22	0 17	0 51	18 0	3 39	19 31	3 41	7 5	3 11	0 8	1 11	12 40	1 33	1 37	0 43	19 2
W31	18n 8	3s41	0n16	18n13	3s25	19n37	3s38	7n16	3s11	0n 4	1n11	12s42	1s33	1n36	0n43	19n 2

Julian Day Number = 2470719.5, Delta T = 75.32 sec  
Ecliptic obliquity = 23°25'47, Nutation = 0°00'04, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°28'25, Lahiri = 24°35'26



## ASTRODIENST EPHEMERIS for the year 2052

geocentric

AUGUST 2052

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 41 15	9♂28'25	22♂15	22♂32	23♂51	27♂6	2♂43	0°R34	27♂41	2♂33	12°R47	6♂53	8♂3	2♂48	29°R50	T 1
F 2	20 45 11	10°25'49	4♂20	22°52	24°48	27°37	2°53	0°H30	27°44	2°34	12°H46	6°54	7°59	2°55	29°H48	F 2
S 3	20 49 8	11°23'14	16°15	23°18	25°44	28°8	3°3	0°26	27°47	2°35	12°45	6°R54	7°56	3°2	29°45	S 3
S 4	20 53 4	12°20'40	28°6	23°51	26°41	28°39	3°13	0°22	27°49	2°36	12°44	6°52	7°53	3°8	29°43	S 4
M 5	20 57 1	13°18'07	9♂58	24°30	27°39	29°9	3°23	0°18	27°52	2°37	12°43	6°49	7°50	3°15	29°41	M 5
T 6	21 0 58	14°15'34	21°56	25°15	28°37	29°40	3°34	0°14	27°55	2°38	12°42	6°43	7°47	3°22	29°39	T 6
W 7	21 4 54	15°13'02	4♂2	26°7	29°35	0♂9	3°44	0°9	27°58	2°39	12°41	6°36	7°43	3°28	29°36	W 7
T 8	21 8 51	16°10'31	16°21	27°5	0♂34	0°39	3°55	0°5	28°1	2°40	12°40	6°27	7°40	3°35	29°34	T 8
F 9	21 12 47	17°8'01	28°53	28°9	1°33	1°7	4°5	0°1	28°4	2°41	12°39	6°18	7°37	3°42	29°32	F 9
S 10	21 16 44	18°5'32	11♂39	29°18	2°33	1°36	4°16	29♂56	28°8	2°42	12°38	6°10	7°34	3°48	29°30	S 10
S 11	21 20 40	19°3'04	24°40	0♂33	3°33	2°4	4°27	29°52	28°11	2°43	12°37	6°3	7°31	3°55	29°29	S 11
M12	21 24 37	20°0'37	7♂54	1°54	4°33	2°32	4°37	29°47	28°14	2°43	12°36	5°58	7°28	4°2	29°27	M12
T 13	21 28 33	20°58'11	21°21	3°20	5°34	2°59	4°48	29°43	28°17	2°44	12°34	5°55	7°24	4°9	29°25	T 13
W14	21 32 30	21°55'46	4♂58	4°50	6°35	3°26	4°59	29°39	28°20	2°45	12°33	5°D54	7°21	4°15	29°24	W14
T 15	21 36 27	22°53'23	18°45	6°25	7°36	3°53	5°10	29°34	28°23	2°46	12°32	5°55	7°18	4°22	29°22	T 15
F 16	21 40 23	23°51'02	2♂40	8°5	8°38	4°19	5°21	29°30	28°27	2°46	12°31	5°56	7°15	4°29	29°21	F 16
S 17	21 44 20	24°48'42	16°43	9°48	9°40	4°45	5°33	29°25	28°30	2°47	12°30	5°57	7°12	4°35	29°19	S 17
S 18	21 48 16	25°46'24	0♂53	11°34	10°42	5°10	5°44	29°21	28°33	2°47	12°29	5°R57	7°9	4°42	29°18	S 18
M19	21 52 13	26°44'07	15°8	13°24	11°44	5°34	5°55	29°16	28°37	2°48	12°27	5°56	7°5	4°49	29°17	M19
T 20	21 56 9	27°41'52	29°25	15°16	12°47	5°59	6°7	29°12	28°40	2°49	12°26	5°53	7°2	4°55	29°15	T 20
W21	22 0 6	28°39'39	13♂41	17°10	13°50	6°22	6°18	29°7	28°43	2°49	12°25	5°48	6°59	5°2	29°14	W21
T 22	22 4 2	29°37'27	27°52	19°7	14°54	6°45	6°29	29°2	28°47	2°50	12°24	5°43	6°56	5°9	29°13	T 22
F 23	22 7 59	0♂35'17	11♂54	21°4	15°57	7°8	6°41	28°58	28°50	2°50	12°23	5°37	6°53	5°16	29°13	F 23
S 24	22 11 56	1°33'08	25°42	23°3	17°1	7°30	6°53	28°53	28°54	2°50	12°21	5°32	6°49	5°22	29°12	S 24
S 25	22 15 52	2°31'01	9♂13	25°2	18°5	7°52	7°4	28°49	28°57	2°51	12°20	5°29	6°46	5°29	29°11	S 25
M26	22 19 49	3°28'55	22°25	27°1	19°10	8°13	7°16	28°44	29°1	2°51	12°19	5°26	6°43	5°36	29°10	M26
T 27	22 23 45	4°26'50	5♂17	29°1	20°14	8°33	7°28	28°40	29°4	2°51	12°18	5°D26	6°40	5°42	29°10	T 27
W28	22 27 42	5°24'47	17°51	1♂0	21°19	8°53	7°40	28°35	29°8	2°52	12°16	5°26	6°37	5°49	29°9	W28
T 29	22 31 38	6°22'46	0♂19	2°59	22°24	9°12	7°52	28°31	29°11	2°52	12°15	5°28	6°34	5°56	29°9	T 29
F 30	22 35 35	7°20'45	12°9	4°58	23°30	9°31	8°4	28°26	29°15	2°52	12°14	5°29	6°30	6°2	29°9	F 30
S 31	22 39 31	8♂18'47	24♂19	6♂55	24♂35	9♂49	8♂16	28♂22	29♂18	2♂52	12♂13	5♂31	6♂27	6♂9	29♂9	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
T 1	17n52	7s24	1n22	18n25	3s10	19n43	3s35	7n27	3s12	0n 0	1n11	12s43	1s33	1n35	0n43	19n 2	1s39	19s25	13s45	2s44	3s11	16s35	16s46	6n40			
F 2	17 37	10 44	2 22	18 37	2 55	19 48	3 32	7 38	3 12	0s 4	1 11	12 45	1 33	1 34	0 43	19 3	1 39	19 25	13 45	2 44	3 10	16 36	16 46	6 39			
S 3	17 21	13 34	3 15	18 48	2 39	19 53	3 29	7 48	3 13	0 8	1 11	12 46	1 33	1 33	0 43	19 3	1 39	19 26	13 45	2 44	3 9	16 37	16 47	6 39			
S 4	17 5	15 50	4 0	18 58	2 24	19 58	3 25	7 58	3 14	0 12	1 11	12 48	1 34	1 31	0 43	19 3	1 39	19 27	13 46	2 44	3 8	16 37	16 47	6 39			
M 5	16 49	17 25	4 34	19 7	2 8	20 2	3 22	8 9	3 14	0 16	1 10	12 49	1 34	1 30	0 43	19 3	1 39	19 27	13 46	2 42	3 6	16 38	16 47	6 38			
T 6	16 33	18 15	4 57	19 15	1 51	20 7	3 19	8 19	3 15	0 20	1 10	12 51	1 34	1 29	0 43	19 3	1 39	19 28	13 46	2 40	3 5	16 39	16 48	6 38			
W 7	16 16	18 16	5 6	19 21	1 35	20 10	3 15	8 28	3 15	0 25	1 10	12 53	1 34	1 28	0 43	19 3	1 40	19 28	13 46	2 37	3 4	16 40	16 48	6 38			
T 8	15 59	17 26	5 2	19 26	1 20	20 14	3 12	8 38	3 16	0 29	1 10	12 54	1 34	1 27	0 43	19 3	1 40	19 29	13 46	2 34	3 3	16 40	16 48	6 37			
F 9	15 42	15 45	4 43	19 29	1 4	20 17	3 8	8 48	3 16	0 33	1 10	12 56	1 34	1 25	0 43	19 4	1 40	19 30	13 47	2 30	3 1	16 41	16 49	6 37			
S 10	15 24	13 16	4 10	19 30	0 49	20 20	3 4	8 57	3 17	0 38	1 10	12 58	1 34	1 24	0 43	19 4	1 40	19 30	13 47	2 27	3 0	16 42	16 49	6 37			
S 11	15 6	10 5	3 24	19 29	0 34	20 22	3 1	9 6	3 17	0 42	1 10	12 59	1 34	1 23	0 43	19 4	1 40	19 31	13 47	2 24	2 59	16 43	16 49	6 36			
M12	14 48	6 21	2 25	19 25	0 19	20 24	2 57	9 15	3 17	0 46	1 9	13 1	1 35	1 21	0 43	19 4	1 40	19 31	13 47	2 22	2 58	16 43	16 50	6 36			
T 13	14 30	2 14	1 18	19 19	0 5	20 26	2 53	9 24	3 18	0 51	1 9	13 3	1 35	1 20	0 43	19 4	1 40	19 32	13 47	2 21	2 56	16 44	16 50	6 35			
W14	14 12	2n 3	0 5	19 11	0n 8	20 27	2 49	9 33	3 18	0 55	1 9	13 4	1 35	1 19	0 43	19 4	1 40	19 33	13 47	2 21	2 55	16 45	16 51	6 35			
T 15	13 53	6 17	1s 9	19 0	0 21	20 28	2 45	9 42	3 18	1 0	1 9	13 6	1 35	1 18	0 43	19 4	1 40	19 33	13 48	2 21	2 54	16 45	16 51	6 35			
F 16	13 34	10 12	2 20	18 46	0 32	20 28	2 41	9 50	3 19	1 4	1 9	13 8	1 35	1 16	0 43	19 4	1 40	19 34	13 48	2 21	2 53	16 46	16 51	6 34			
S 17	13 15	13 35	3 23	18 29	0 43	20 28	2 37	9 58	3 19	1 9	1 9	13 9	1 35	1 15	0 43	19 4	1 40	19 34	13 48	2 22	2 51	16 47	16 52	6 34			
S 18	12 55	16 10	4 15	18 10	0 53	20 27	2 33	10 6	3 19	1 13	1 9	13 11	1 35	1 14	0 43	19 4	1 40	19 35	13 48	2 22	2 50	16 48	16 52	6 33			
M19	12 36	17 47	4 51	17 48	1 3	20 26	2 29	10 14	3 19	1 18	1 9	13 13	1 35	1 12	0 43	19 4	1 40	19 35	13 48	2 21	2 49	16 48	16 53	6 33			
T 20	12 16	18 17	5 9	17 23	1 11	20 25	2 25	10 22	3 20	1 23	1 9	13 14	1 35	1 11	0 43	19 4	1 40	19 36	13 48	2 20	2 48	16 49	16 53	6 33			
W21	11 56	17 37	5 8	16 56	1 19	20 23	2 21	10 29	3 20	1 27	1 8	13 16	1 35	1 10	0 43	19 5	1 40	19 37	13 48	2 18	2 46	16 50	16 54	6 32			
T 22	11 36	15 52	4 48	16 26	1 25	20 20	2 16	10 37	3 20	1 32	1 8	13 18	1 35	1 8	0 43	19 5	1 40	19 37	13 49	2 16	2 45	16 50	16 54	6 32			
F 23	11 16	13 12	4 11	15 54	1 31	20 17	2 12	10 44	3 20	1 36	1 8	13 19	1 35	1 7	0 43	19 5	1 40	19 38	13 49	2 14	2 44	16 51	16 54	6 31			
S 24	10 55	9 49	3 20	15 20	1 35	20 14	2 8	10 51	3 20	1 41	1 8	13 21	1 36	1 5	0 42	19 5	1 40	19 38	13 49	2 12	2 42	16 52	16 55	6 31			
S 25	10 34	5 58	2 18	14 44	1 39	20 10	2 4	10 58	3 20	1 46	1 8	13 23	1 36	1 4	0 42	19 5	1 40	19 39	13 49	2 11	2 41	16 53	16 55	6 30			
M26	10 14	1 56	1 11	14 6	1 42	20 6	1 59	11 5	3 20	1 51	1 8	13 24	1 36	1 3	0 42	19 5	1 41	19 40	13 49	2 10	2 40	16 53	16 56	6 30			
T 27	9 53	2s 7	0 1	13 26	1 44	20 1	1 55	11 11	3 20	1 55	1 8	13 26	1 36	1 1	0 42	19 5	1 41	19 40	13 49	2 9	2 39	16 54	16 56	6 29			
W28	9 31	5 58	1n 8	12 46	1 46	19 55	1 51	11 17	3 20	2 0	1 8	13 27	1 36	1 0	0 42	19 5	1 41	19 41	13 49	2 10	2 37	16 55	16 57	6 29			
T 29	9 10	9 28	2 1	12 3	1 46	19 49	1 46	11 23	3 20	2 5	1 8	13 29	1 36	0 58	0 42	19 5	1 41	19 41	13 49	2 10	2 36	16 55	16 57	6 29			
F 30	8 49	12 30	3 8	11 20	1 46	19 43	1 42	11 29	3 20	2 10	1 8	13 31	1 36	0 57	0 42	19 5	1 41	19 42	13 49	2 11	2 35	16 56	16 58	6 28			
S 31	8n27	14s59	3m56	10n36	1n45	19n36	1s37	11n35	3s20	2s14	1n 7	13s32	1s36	0n55	0n42	19n 5	1s41	19s42	13s49	2s11	2s34	16s57	16s58	6n28			

ASTRODIENST EPHEMERIS for the year 2052  
geocentric

SEPTEMBER 2052

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 43 28	9♐16'49	6♊1	8♏52	25♎41	10♏6	8♏28	28°R18	29♐22	2♏52	12°R11	5°R32	6♏24	6♊16	29°R 8	S 1
M 2	22 47 24	10°14'53	17°54	10°48	26°47	10°23	8°40	28°13	29°26	2°53	12°10	5♏31	6°21	6°23	29°D 8	M 2
T 3	22 51 21	11°12'58	29°53	12°43	27°53	10°39	8°52	28° 9	29°29	2°53	12° 9	5°30	6°18	6°29	29♊8	T 3
W 4	22 55 18	12°11'05	12♎2	14°37	28°59	10°54	9° 4	28° 4	29°33	2°53	12° 8	5°28	6°15	6°36	29° 9	W 4
T 5	22 59 14	13° 9'13	24°24	16°30	0♏6	11° 9	9°16	28° 0	29°37	2°R53	12° 6	5°25	6°11	6°43	29° 9	T 5
F 6	23 3 11	14° 7'23	7♎4	18°22	1°12	11°23	9°28	27°56	29°40	2°53	12° 5	5°22	6° 8	6°49	29° 9	F 6
S 7	23 7 7	15° 5'34	20° 2	20°13	2°19	11°37	9°41	27°52	29°44	2°53	12° 4	5°18	6° 5	6°56	29°10	S 7
S 8	23 11 4	16° 3'47	3♏19	22° 2	3°26	11°49	9°53	27°47	29°48	2°52	12° 3	5°16	6° 2	7° 3	29°10	S 8
M 9	23 15 0	17° 2'01	16°54	23°50	4°34	12° 1	10° 6	27°43	29°51	2°52	12° 1	5°14	5°59	7°10	29°11	M 9
T 10	23 18 57	18° 0'17	0♏45	25°38	5°41	12°12	10°18	27°39	29°55	2°52	12° 0	5°D13	5°55	7°16	29°11	T 10
W11	23 22 53	18°58'35	14°49	27°24	6°49	12°22	10°30	27°35	29°59	2°52	11°59	5°14	5°52	7°23	29°12	W11
T 12	23 26 50	19°56'55	29° 1	29° 8	7°56	12°32	10°43	27°31	0♏2	2°52	11°58	5°14	5°49	7°30	29°13	T 12
F 13	23 30 47	20°55'18	13♏19	0♏52	9° 4	12°41	10°55	27°27	0° 6	2°52	11°56	5°15	5°46	7°36	29°14	F 13
S 14	23 34 43	21°53'42	27°39	2°35	10°13	12°49	11° 8	27°23	0°10	2°51	11°55	5°17	5°43	7°43	29°15	S 14
S 15	23 38 40	22°52'08	11♏56	4°16	11°21	12°56	11°21	27°19	0°14	2°51	11°54	5°17	5°40	7°50	29°16	S 15
M16	23 42 36	23°50'37	26° 9	5°57	12°29	13° 3	11°33	27°15	0°17	2°51	11°53	5°R17	5°36	7°56	29°17	M16
T 17	23 46 33	24°49'08	10♎15	7°36	13°38	13° 8	11°46	27°12	0°21	2°50	11°51	5°17	5°33	8° 3	29°18	T 17
W18	23 50 29	25°47'41	24°12	9°14	14°47	13°13	11°59	27° 8	0°25	2°50	11°50	5°16	5°30	8°10	29°20	W18
T 19	23 54 26	26°46'16	7♏58	10°52	15°56	13°17	12°11	27° 4	0°29	2°49	11°49	5°15	5°27	8°17	29°21	T 19
F 20	23 58 22	27°44'53	21°33	12°28	17° 5	13°19	12°24	27° 1	0°33	2°49	11°48	5°14	5°24	8°23	29°23	F 20
S 21	0 2 19	28°43'32	4♏54	14° 3	18°14	13°21	12°37	26°57	0°36	2°48	11°47	5°13	5°20	8°30	29°24	S 21
S 22	0 6 16	29°42'14	18° 2	15°38	19°24	13°23	12°50	26°54	0°40	2°48	11°45	5°13	5°17	8°37	29°26	S 22
M23	0 10 12	0♏40'57	0♏54	17°11	20°33	13°R23	13° 3	26°50	0°44	2°47	11°44	5°D13	5°14	8°43	29°28	M23
T 24	0 14 9	1°39'42	13°33	18°43	21°43	13°22	13°15	26°47	0°48	2°47	11°43	5°13	5°11	8°50	29°30	T 24
W25	0 18 5	2°38'30	25°57	20°15	22°53	13°21	13°28	26°44	0°52	2°46	11°42	5°13	5° 8	8°57	29°32	W25
T 26	0 22 2	3°37'19	8♏9	21°45	24° 3	13°18	13°41	26°41	0°55	2°45	11°41	5°13	5° 5	9° 4	29°34	T 26
F 27	0 25 58	4°36'10	20°11	23°15	25°13	13°15	13°54	26°38	0°59	2°45	11°40	5°13	5° 1	9°10	29°36	F 27
S 28	0 29 55	5°35'03	2♊7	24°43	26°23	13°11	14° 7	26°35	1° 3	2°44	11°38	5°R13	4°58	9°17	29°38	S 28
S 29	0 33 51	6°33'57	13°58	26°11	27°33	13° 6	14°20	26°32	1° 7	2°43	11°37	5°13	4°55	9°24	29°40	S 29
M30	0 37 48	7♏32'54	25♊50	27♏37	28♏43	13♏0	14♏33	26°29	1°10	2♏42	11°36	5♏13	4♏52	9♊30	29♊43	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	8n 5	16s48	4n34	9n51	1n44	19n28	1s33	11n41	3s20	2s19	1n 7	13s34	1s36	0n54	0n42	19n 5
M 2	7 43	17 54	5 0	9 5	1 42	19 21	1 29	11 46	3 20	2 24	1 7	13 35	1 36	0 53	0 42	19 5
T 3	7 21	18 13	5 13	8 19	1 40	19 12	1 24	11 51	3 19	2 29	1 7	13 37	1 36	0 51	0 42	19 5
W 4	6 59	17 42	5 12	7 32	1 37	19 3	1 20	11 56	3 19	2 34	1 7	13 38	1 36	0 50	0 42	19 4
T 5	6 37	16 21	4 57	6 45	1 33	18 53	1 16	12 1	3 19	2 39	1 7	13 40	1 36	0 48	0 42	19 4
F 6	6 15	14 11	4 28	5 58	1 29	18 43	1 11	12 6	3 18	2 44	1 7	13 41	1 36	0 47	0 42	19 4
S 7	5 52	11 15	3 44	5 11	1 25	18 33	1 7	12 10	3 18	2 48	1 7	13 43	1 36	0 45	0 42	19 4
S 8	5 30	7 41	2 47	4 23	1 20	18 22	1 3	12 14	3 17	2 53	1 7	13 44	1 36	0 44	0 42	19 4
M 9	5 7	3 39	1 40	3 36	1 15	18 10	0 58	12 19	3 17	2 58	1 7	13 46	1 36	0 42	0 42	19 4
T 10	4 44	0n40	0 25	2 48	1 10	17 58	0 54	12 22	3 16	3 3	1 7	13 47	1 36	0 41	0 42	19 4
W11	4 22	5 1	0s53	2 1	1 4	17 46	0 50	12 26	3 16	3 8	1 7	13 49	1 36	0 39	0 42	19 4
T 12	3 59	9 8	2 8	1 14	0 58	17 33	0 46	12 30	3 15	3 13	1 7	13 50	1 36	0 38	0 42	19 4
F 13	3 36	12 43	3 15	0 27	0 52	17 19	0 41	12 33	3 14	3 18	1 7	13 51	1 36	0 36	0 42	19 4
S 14	3 13	15 33	4 11	0s19	0 46	17 5	0 37	12 36	3 14	3 23	1 6	13 53	1 36	0 35	0 42	19 4
S 15	2 50	17 24	4 51	1 6	0 39	16 50	0 33	12 39	3 13	3 28	1 6	13 54	1 36	0 33	0 42	19 4
M16	2 27	18 10	5 13	1 52	0 33	16 35	0 29	12 42	3 12	3 33	1 6	13 55	1 36	0 32	0 42	19 3
T 17	2 3	17 48	5 15	2 37	0 26	16 20	0 25	12 44	3 11	3 38	1 6	13 57	1 36	0 30	0 42	19 3
W18	1 40	16 21	5 0	3 22	0 19	16 4	0 21	12 47	3 10	3 43	1 6	13 58	1 36	0 29	0 42	19 3
T 19	1 17	13 58	4 27	4 7	0 12	15 47	0 17	12 49	3 9	3 48	1 6	13 59	1 36	0 27	0 42	19 3
F 20	0 54	10 51	3 39	4 51	0 5	15 30	0 13	12 51	3 8	3 53	1 6	14 0	1 36	0 26	0 42	19 3
S 21	0 30	7 13	2 40	5 35	0s 3	15 13	0 9	12 52	3 7	3 58	1 6	14 2	1 36	0 24	0 42	19 3
S 22	0 7	3 17	1 34	6 18	0 10	14 55	0 5	12 54	3 5	4 3	1 6	14 3	1 36	0 23	0 42	19 3
M23	0s16	0s43	0 24	7 1	0 17	14 37	0 1	12 55	3 4	4 8	1 6	14 4	1 36	0 21	0 42	19 2
T 24	0 40	4 38	0n46	7 43	0 25	14 18	0n 3	12 56	3 3	4 13	1 6	14 5	1 36	0 20	0 42	19 2
W25	1 3	8 16	1 53	8 24	0 32	13 59	0 6	12 57	3 1	4 18	1 6	14 6	1 36	0 18	0 42	19 2
T 26	1 26	11 30	2 53	9 5	0 40	13 40	0 10	12 58	3 0	4 23	1 6	14 7	1 36	0 17	0 42	19 2
F 27	1 50	14 11	3 45	9 45	0 47	13 20	0 14	12 59	2 58	4 28	1 6	14 8	1 36	0 15	0 42	19 2
S 28	2 13	16 14	4 26	10 25	0 54	12 59	0 17	12 59	2 56	4 33	1 6	14 9	1 36	0 14	0 42	19 2
S 29	2 36	17 34	4 56	11 4	1 2	12 39	0 21	12 59	2 55	4 38	1 6	14 10	1 36	0 12	0 42	19 1
M30	3s 0	18s 9	5n13	11s42	1s 9	12n18	0n24	12n59	2s53	4s43	1n 6	14s11	1s36	0n11	0n42	19n 1

Julian Day Number = 2470781.5, Delta T = 75.37 sec  
Ecliptic obliquity = 23°25'48, Nutation = 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°28'34, Lahiri = 24°35'34

ASTRODIENST EPHEMERIS for the year 2052  
geocentric

OCTOBER 2052

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 41 44	8♈31'52	7♌48	29♎3	29♏54	12°R53	14♎46	26°R26	1♈14	2°R41	11°R35	5°D13	4♎49	9♎37	29♎45	T 1
W 2	0 45 41	9°30'52	19°55	0♏27	1♏5	12♎45	14°59	26♎23	1°18	2♏41	11♎34	5♎13	4°46	9°44	29°48	W 2
T 3	0 49 38	10°29'54	2♎16	1°51	2°15	12°37	15°12	26°21	1°22	2°40	11°33	5°13	4°42	9°50	29°50	T 3
F 4	0 53 34	11°28'57	14°55	3°13	3°26	12°27	15°25	26°18	1°26	2°39	11°32	5°14	4°39	9°57	29°53	F 4
S 5	0 57 31	12°28'03	27°56	4°34	4°37	12°17	15°38	26°16	1°29	2°38	11°31	5°15	4°36	10°4	29°56	S 5
S 6	1 1 27	13°27'10	11♎21	5°55	5°48	12°6	15°51	26°13	1°33	2°37	11°30	5°15	4°33	10°11	29°59	S 6
M 7	1 5 24	14°26'18	25°9	7°14	7°0	11°54	16°4	26°11	1°37	2°36	11°29	5°16	4°30	10°17	0♎1	M 7
T 8	1 9 20	15°25'29	9♎19	8°31	8°11	11°42	16°17	26°9	1°40	2°35	11°28	5°R16	4°26	10°24	0°4	T 8
W 9	1 13 17	16°24'42	23°48	9°48	9°22	11°28	16°30	26°7	1°44	2°34	11°27	5°15	4°23	10°31	0°8	W 9
T 10	1 17 13	17°23'57	8♎29	11°3	10°34	11°14	16°43	26°5	1°48	2°33	11°26	5°14	4°20	10°37	0°11	T 10
F 11	1 21 10	18°23'14	23°15	12°16	11°46	11°0	16°56	26°3	1°52	2°32	11°25	5°13	4°17	10°44	0°14	F 11
S 12	1 25 7	19°22'33	7♏59	13°28	12°57	10°44	17°9	26°1	1°55	2°31	11°24	5°11	4°14	10°51	0°17	S 12
S 13	1 29 3	20°21'55	22°35	14°38	14°9	10°28	17°22	25°59	1°59	2°30	11°23	5°10	4°11	10°58	0°21	S 13
M14	1 33 0	21°21'19	6♎58	15°46	15°21	10°12	17°35	25°58	2°2	2°28	11°22	5°9	4°7	11°4	0°24	M14
T 15	1 36 56	22°20'46	21°4	16°52	16°33	9°54	17°48	25°56	2°6	2°27	11°21	5°D8	4°4	11°11	0°27	T 15
W16	1 40 53	23°20'14	4♎52	17°56	17°45	9°37	18°1	25°55	2°10	2°26	11°20	5°8	4°1	11°18	0°31	W16
T 17	1 44 49	24°19'45	18°23	18°58	18°58	9°18	18°14	25°54	2°13	2°25	11°19	5°9	3°58	11°24	0°35	T 17
F 18	1 48 46	25°19'19	1♏37	19°57	20°10	9°0	18°27	25°52	2°17	2°23	11°19	5°11	3°55	11°31	0°38	F 18
S 19	1 52 42	26°18'54	14°35	20°53	21°22	8°40	18°40	25°51	2°20	2°22	11°18	5°12	3°51	11°38	0°42	S 19
S 20	1 56 39	27°18'32	27°20	21°45	22°35	8°21	18°53	25°50	2°24	2°21	11°17	5°13	3°48	11°45	0°46	S 20
M21	2 0 36	28°18'11	9♎53	22°35	23°48	8°1	19°5	25°49	2°27	2°20	11°16	5°R13	3°45	11°51	0°50	M21
T 22	2 4 32	29°17'53	22°15	23°20	25°0	7°41	19°18	25°48	2°31	2°18	11°15	5°12	3°42	11°58	0°54	T 22
W23	2 8 29	0♏17'37	4♏27	24°1	26°13	7°21	19°31	25°48	2°34	2°17	11°15	5°10	3°39	12°5	0°58	W23
T 24	2 12 25	1°17'23	16°32	24°37	27°26	7°1	19°44	25°47	2°38	2°15	11°14	5°6	3°36	12°11	1°2	T 24
F 25	2 16 22	2°17'11	28°29	25°8	28°39	6°40	19°57	25°47	2°41	2°14	11°13	5°2	3°32	12°18	1°6	F 25
S 26	2 20 18	3°17'01	10♎22	25°33	29°52	6°20	20°10	25°46	2°45	2°13	11°12	4°57	3°29	12°25	1°11	S 26
S 27	2 24 15	4°16'52	22°13	25°52	1♎5	5°59	20°23	25°46	2°48	2°11	11°12	4°52	3°26	12°32	1°15	S 27
M28	2 28 11	5°16'45	4♎4	26°4	2°18	5°39	20°36	25°46	2°52	2°10	11°11	4°47	3°23	12°38	1°19	M28
T 29	2 32 8	6°16'40	16°0	26°R8	3°31	5°18	20°48	25°45	2°55	2°8	11°10	4°44	3°20	12°45	1°24	T 29
W30	2 36 5	7°16'37	28°4	26°4	4°44	4°58	21°1	25°D45	2°58	2°7	11°10	4°42	3°17	12°52	1°28	W30
T 31	2 40 1	8♏16'35	10♎20	25♏51	5♎58	4♎38	21♎14	25♎46	3♎1	2♏5	11♎9	4°D41	3♎13	12♎58	1♎33	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	decl	decl	decl	decl	lat
T 1	3s23	17s56	5n17	12s19	1s17	11n56	0n28	12n59	2s51	4s48	1n 6	14s12	1s36	0n 9	0n42	19n 1	1s42	19s56	13s48	2s 4	1s55	17s17	17s13	6n13			
W 2	3 46	16 53	5 7	12 56	1 24	11 34	0 31	12 59	2 49	4 53	1 6	14 13	1 36	0 8	0 42	19 1	1 42	19 56	13 48	2 4	1 53	17 17	17 13	6 12			
T 3	4 9	15 3	4 43	13 32	1 31	11 12	0 34	12 58	2 47	4 58	1 6	14 14	1 36	0 6	0 42	19 1	1 42	19 57	13 48	2 4	1 52	17 18	17 14	6 12			
F 4	4 32	12 27	4 4	14 7	1 38	10 50	0 38	12 57	2 44	5 3	1 6	14 15	1 36	0 5	0 42	19 0	1 42	19 57	13 48	2 5	1 51	17 18	17 14	6 12			
S 5	4 55	9 10	3 13	14 41	1 45	10 27	0 41	12 56	2 42	5 8	1 6	14 15	1 36	0 3	0 42	19 0	1 43	19 57	13 48	2 5	1 50	17 19	17 15	6 11			
S 6	5 18	5 19	2 9	15 15	1 52	10 4	0 44	12 55	2 40	5 13	1 6	14 16	1 35	0 2	0 42	19 0	1 43	19 57	13 48	2 5	1 48	17 20	17 15	6 11			
M 7	5 41	1 4	0 56	15 47	1 59	9 40	0 47	12 54	2 37	5 18	1 6	14 17	1 35	0 0	0 42	19 0	1 43	19 58	13 47	2 5	1 47	17 20	17 16	6 10			
T 8	6 4	3n21	0s22	16 19	2 5	9 16	0 50	12 53	2 35	5 23	1 6	14 17	1 35	0s 1	0 42	18 59	1 43	19 58	13 47	2 5	1 46	17 21	17 16	6 10			
W 9	6 27	7 40	1 41	16 49	2 11	8 52	0 53	12 51	2 32	5 28	1 6	14 18	1 35	0 3	0 42	18 59	1 43	19 58	13 47	2 5	1 45	17 21	17 16	6 9			
T 10	6 50	11 35	2 54	17 19	2 18	8 28	0 56	12 49	2 30	5 33	1 6	14 19	1 35	0 4	0 42	18 59	1 43	19 58	13 47	2 5	1 43	17 22	17 17	6 9			
F 11	7 12	14 47	3 55	17 47	2 24	8 3	0 58	12 47	2 27	5 38	1 6	14 19	1 35	0 6	0 42	18 59	1 43	19 59	13 47	2 4	1 42	17 22	17 17	6 8			
S 12	7 35	17 0	4 41	18 15	2 29	7 38	1 1	12 45	2 24	5 43	1 6	14 20	1 35	0 7	0 42	18 58	1 43	19 59	13 47	2 4	1 41	17 23	17 18	6 8			
S 13	7 57	18 5	5 8	18 41	2 35	7 13	1 4	12 43	2 21	5 48	1 6	14 20	1 35	0 8	0 42	18 58	1 43	19 59	13 46	2 3	1 40	17 24	17 18	6 8			
M14	8 20	17 59	5 16	19 6	2 40	6 47	1 6	12 41	2 18	5 53	1 6	14 21	1 35	0 10	0 42	18 58	1 43	19 59	13 46	2 3	1 38	17 24	17 19	6 7			
T 15	8 42	16 46	5 4	19 30	2 45	6 21	1 9	12 38	2 15	5 58	1 6	14 21	1 35	0 11	0 42	18 58	1 43	19 59	13 46	2 2	1 37	17 25	17 19	6 7			
W16	9 4	14 36	4 35	19 52	2 49	5 56	1 11	12 36	2 12	6 3	1 6	14 22	1 35	0 13	0 42	18 57	1 43	20 0	13 46	2 2	1 36	17 25	17 19	6 6			
T 17	9 26	11 39	3 50	20 13	2 53	5 29	1 13	12 33	2 9	6 8	1 6	14 22	1 35	0 14	0 42	18 57	1 43	20 0	13 46	2 3	1 35	17 26	17 20	6 6			
F 18	9 48	8 10	2 55	20 33	2 57	5 3	1 15	12 30	2 6	6 13	1 6	14 22	1 35	0 16	0 42	18 57	1 43	20 0	13 46	2 3	1 33	17 26	17 20	6 6			
S 19	10 9	4 21	1 51	20 51	3 0	4 36	1 18	12 27	2 2	6 18	1 6	14 23	1 35	0 17	0 42	18 57	1 43	20 0	13 45	2 4	1 32	17 27	17 20	6 5			
S 20	10 31	0 24	0 43	21 8	3 2	4 10	1 20	12 24	1 59	6 23	1 6	14 23	1 34	0 18	0 42	18 56	1 43	20 0	13 45	2 4	1 31	17 27	17 21	6 5			
M21	10 52	3s31	0n26	21 22	3 4	4 33	1 22	12 21	1 55	6 27	1 6	14 23	1 34	0 20	0 42	18 56	1 43	20 0	13 45	2 4	1 29	17 28	17 21	6 4			
T 22	11 13	7 14	1 32	21 35	3 5	3 16	1 24	12 18	1 52	6 32	1 6	14 23	1 34	0 21	0 42	18 56	1 43	20 0	13 45	2 4	1 28	17 29	17 22	6 4			
W23	11 34	10 35	2 34	21 46	3 6	2 49	1 25	12 15	1 48	6 37	1 6	14 24	1 34	0 23	0 42	18 55	1 43	20 1	13 44	2 3	1 27	17 29	17 22	6 4			
T 24	11 55	13 27	3 28	21 55	3 6	2 21	1 27	12 12	1 45	6 42	1 6	14 24	1 34	0 24	0 42	18 55	1 43	20 1	13 44	2 2	1 26	17 30	17 22	6 3			
F 25	12 16	15 43	4 12	22 2	3 5	1 54	1 29	12 9	1 41	6 47	1 6	14 24	1 34	0 25	0 42	18 55	1 43	20 1	13 44	2 0	1 24	17 30	17 23	6 3			
S 26	12 36	17 18	4 44	22 6	3 3	1 26	1 30	12 5	1 38	6 52	1 6	14 24	1 34	0 27	0 42	18 55	1 43	20 1	13 44	1 58	1 23	17 31	17 23	6 3			
S 27	12 57	18 8	5 5	22 7	2 59	0 58	1 32	12 2	1 34	6 56	1 6	14 24	1 34	0 28	0 42	18 54	1 43	20 1	13 44	1 56	1 22	17 31	17 23	6 2			
M28	13 17	18 10	5 12	22 6	2 55	0 31	1 33	11 59	1 30	7 1	1 6	14 24	1 34	0 29	0 42	18 54	1 43	20 1	13 43	1 54	1 21	17 32	17 23	6 2			
T 29	13 36	17 24	5 6	22 1	2 49	0 3	1 35	11 56	1 26	7 6	1 6	14 24	1 34	0 31	0 42	18 54	1 43	20 1	13 43	1 53	1 19	17 32	17 24	6 2			
W30	13 56	15 51	4 47	21 53	2 42	0s25	1 36	11 53	1 23	7 11	1 6	14 24	1 34	0 32	0 42	18 53	1 43	20 1	13 43	1 52	1 18	17 33	17 24	6 1			
T 31	14s16	13s34	4n14	21s42	2s34	0s53	1n37	11n50	1s19	7s15	1n 6	14s24	1s34	0s33	0n42	18n53	1s43	20s 1	13s43	1s52	1s17	17s33	17s24	6n 1			

# ASTRODIENST EPHEMERIS for the year 2052

## geocentric

NOVEMBER 2052

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 43 58	9♍16°35	22♋54	25°R29	7♋11	4°R19	21♂27	25♋46	3♋ 5	2°R 4	11°R 9	4♋42	3♋10	13♋ 5	1♋37	F 1
S 2	2 47 54	10°16'37	5♋50	24♍58	8°24	3♋59	21°39	25°46	3° 8	2♋ 2	11♋ 8	4°44	3° 7	13°12	1°42	S 2
S 3	2 51 51	11°16'40	19°11	24°17	9°38	3°41	21°52	25°47	3°11	2° 1	11° 8	4°45	3° 4	13°19	1°47	S 3
M 4	2 55 47	12°16'44	3♋ 0	23°27	10°52	3°22	22° 5	25°47	3°14	1°59	11° 7	4°R46	3° 1	13°25	1°52	M 4
T 5	2 59 44	13°16'50	17°16	22°28	12° 5	3° 4	22°17	25°48	3°17	1°57	11° 7	4°45	2°57	13°32	1°56	T 5
W 6	3 3 40	14°16'58	1♋58	21°21	13°19	2°46	22°30	25°48	3°20	1°56	11° 6	4°43	2°54	13°39	2° 1	W 6
T 7	3 7 37	15°17'08	16°58	20° 8	14°33	2°29	22°42	25°49	3°24	1°54	11° 6	4°39	2°51	13°45	2° 6	T 7
F 8	3 11 33	16°17'19	2♋ 7	18°51	15°46	2°13	22°55	25°50	3°27	1°53	11° 5	4°33	2°48	13°52	2°11	F 8
S 9	3 15 30	17°17'33	17°17	17°31	17° 0	1°57	23° 7	25°51	3°30	1°51	11° 5	4°26	2°45	13°59	2°16	S 9
S 10	3 19 27	18°17'48	2♋17	16°12	18°14	1°41	23°20	25°52	3°33	1°49	11° 5	4°20	2°42	14° 6	2°21	S 10
M 11	3 23 23	19°18'06	16°58	14°56	19°28	1°27	23°32	25°53	3°36	1°48	11° 4	4°14	2°38	14°12	2°26	M 11
T 12	3 27 20	20°18'25	1♋15	13°46	20°42	1°13	23°44	25°55	3°38	1°46	11° 4	4°11	2°35	14°19	2°32	T 12
W 13	3 31 16	21°18'46	15° 7	12°43	21°56	0°59	23°57	25°56	3°41	1°44	11° 4	4° 9	2°32	14°26	2°37	W 13
T 14	3 35 13	22°19'09	28°34	11°49	23°10	0°47	24° 9	25°58	3°44	1°43	11° 3	4°D 9	2°29	14°32	2°42	T 14
F 15	3 39 9	23°19'34	11♋39	11° 6	24°25	0°35	24°21	25°59	3°47	1°41	11° 3	4°10	2°26	14°39	2°47	F 15
S 16	3 43 6	24°20'01	24°24	10°35	25°39	0°23	24°33	26° 1	3°50	1°39	11° 3	4°11	2°23	14°46	2°53	S 16
S 17	3 47 2	25°20'30	6♋53	10°15	26°53	0°13	24°45	26° 3	3°52	1°38	11° 3	4°R12	2°19	14°53	2°58	S 17
M 18	3 50 59	26°21'00	19°10	10°D 7	28° 7	0° 3	24°57	26° 5	3°55	1°36	11° 3	4°10	2°16	14°59	3° 4	M 18
T 19	3 54 56	27°21'33	1♋18	10°10	29°22	29♋55	25° 9	26° 7	3°58	1°34	11° 2	4° 7	2°13	15° 6	3° 9	T 19
W 20	3 58 52	28°22'06	13°20	10°23	0♋36	29°47	25°21	26° 9	4° 0	1°33	11° 2	4° 0	2°10	15°13	3°15	W 20
T 21	4 2 49	29°22'42	25°16	10°47	1°51	29°39	25°33	26°11	4° 3	1°31	11° 2	3°52	2° 7	15°19	3°20	T 21
F 22	4 6 45	0♋23°19	7♋10	11°19	3° 5	29°33	25°45	26°14	4° 5	1°29	11° 2	3°41	2° 3	15°26	3°26	F 22
S 23	4 10 42	1°23'58	19° 2	11°59	4°20	29°27	25°57	26°16	4° 8	1°28	11° 2	3°29	2° 0	15°33	3°31	S 23
S 24	4 14 38	2°24'37	0♋53	12°46	5°34	29°23	26° 8	26°19	4°10	1°26	11°D 2	3°17	1°57	15°40	3°37	S 24
M 25	4 18 35	3°25'19	12°46	13°40	6°49	29°19	26°20	26°21	4°13	1°24	11° 2	3° 6	1°54	15°46	3°43	M 25
T 26	4 22 32	4°26'01	24°43	14°39	8° 3	29°16	26°32	26°24	4°15	1°22	11° 2	2°57	1°51	15°53	3°49	T 26
W 27	4 26 28	5°26'44	6♋46	15°42	9°18	29°13	26°43	26°27	4°17	1°21	11° 2	2°51	1°48	16° 0	3°54	W 27
T 28	4 30 25	6°27'29	19° 0	16°50	10°33	29°12	26°55	26°30	4°20	1°19	11° 2	2°47	1°44	16° 6	4° 0	T 28
F 29	4 34 21	7°28'14	1♋29	18° 2	11°47	29°D11	27° 6	26°33	4°22	1°17	11° 2	2°45	1°41	16°13	4° 6	F 29
S 30	4 38 18	8♋29°01	14♋17	19♍16	13♍ 2	29♋12	27♂17	26♋36	4♋24	1♋16	11♋ 3	2°D45	1♋38	16♋20	4♋12	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	14s35	10s35	3n29	21s27	2s23	1s21	1n38	11n46	1s15	7s20	1n 6	14s24	1s33	0s34	0n43	18n53	1s43	20s 1	13s42	1s52	1s16	17s34	17s25	6n 1			
S 2	14 54	7 1	2 31	21 8	2 12	1 49	1 39	11 44	1 11	7 25	1 6	14 23	1 33	0 36	0 43	18 52	1 43	20 1	13 42	1 53	1 14	17 34	17 25	6 0			
S 3	15 12	2 59	1 24	20 44	1 58	2 17	1 40	11 41	1 7	7 30	1 6	14 23	1 33	0 37	0 43	18 52	1 43	20 1	13 42	1 53	1 13	17 35	17 25	6 0			
M 4	15 31	1n20	0 10	20 17	1 43	2 45	1 41	11 38	1 4	7 34	1 6	14 23	1 33	0 38	0 43	18 52	1 43	20 1	13 42	1 54	1 12	17 35	17 25	6 0			
T 5	15 49	5 44	1s 8	19 46	1 26	3 13	1 41	11 35	1 0	7 39	1 6	14 23	1 33	0 39	0 43	18 51	1 43	20 1	13 41	1 53	1 11	17 36	17 26	5 59			
W 6	16 7	9 55	2 22	19 11	1 8	3 41	1 42	11 33	0 56	7 43	1 6	14 22	1 33	0 41	0 43	18 51	1 43	20 1	13 41	1 52	1 9	17 36	17 26	5 59			
T 7	16 25	13 33	3 29	18 33	0 48	4 9	1 43	11 31	0 52	7 48	1 6	14 22	1 33	0 42	0 43	18 51	1 43	20 1	13 41	1 51	1 8	17 37	17 26	5 59			
F 8	16 42	16 19	4 21	17 52	0 28	4 37	1 43	11 28	0 49	7 53	1 6	14 21	1 33	0 43	0 43	18 50	1 43	20 0	13 41	1 48	1 7	17 37	17 26	5 59			
S 9	16 59	17 55	4 55	17 10	0 7	5 5	1 43	11 26	0 45	7 57	1 7	14 21	1 33	0 44	0 43	18 50	1 43	20 0	13 40	1 46	1 5	17 38	17 26	5 58			
S 10	17 16	18 16	5 9	16 28	0n13	5 33	1 44	11 24	0 41	8 2	1 7	14 21	1 33	0 45	0 43	18 50	1 43	20 0	13 40	1 43	1 4	17 38	17 27	5 58			
M11	17 33	17 22	5 1	15 47	0 33	6 1	1 44	11 23	0 38	8 6	1 7	14 20	1 33	0 46	0 43	18 49	1 44	20 0	13 40	1 41	1 3	17 39	17 27	5 58			
T 12	17 49	15 24	4 35	15 8	0 52	6 28	1 44	11 21	0 34	8 11	1 7	14 20	1 32	0 48	0 43	18 49	1 44	20 0	13 39	1 40	1 2	17 39	17 27	5 57			
W13	18 5	12 34	3 54	14 32	1 10	6 56	1 44	11 20	0 31	8 15	1 7	14 19	1 32	0 49	0 43	18 49	1 44	20 0	13 39	1 39	1 0	17 40	17 27	5 57			
T 14	18 21	9 9	3 0	14 0	1 26	7 23	1 44	11 19	0 27	8 20	1 7	14 18	1 32	0 50	0 43	18 48	1 44	20 0	13 39	1 39	0 59	17 40	17 27	5 57			
F 15	18 36	5 22	1 59	13 34	1 41	7 51	1 44	11 18	0 24	8 24	1 7	14 18	1 32	0 51	0 43	18 48	1 44	20 0	13 39	1 39	0 58	17 41	17 27	5 57			
S 16	18 51	1 25	0 53	13 12	1 53	8 18	1 44	11 17	0 20	8 28	1 7	14 17	1 32	0 52	0 43	18 48	1 44	19 59	13 38	1 40	0 57	17 41	17 27	5 56			
S 17	19 5	2s31	0n14	12 56	2 3	8 45	1 44	11 17	0 17	8 33	1 7	14 16	1 32	0 53	0 43	18 47	1 44	19 59	13 38	1 40	0 55	17 42	17 28	5 56			
M18	19 20	6 16	1 20	12 46	2 12	9 12	1 43	11 16	0 14	8 37	1 7	14 16	1 32	0 54	0 43	18 47	1 44	19 59	13 38	1 39	0 54	17 42	17 28	5 56			
T 19	19 34	9 44	2 20	12 41	2 18	9 38	1 43	11 16	0 11	8 41	1 7	14 15	1 32	0 55	0 43	18 47	1 44	19 59	13 37	1 38	0 53	17 42	17 28	5 56			
W20	19 47	12 45	3 14	12 40	2 23	10 5	1 43	11 16	0 7	8 46	1 7	14 14	1 32	0 56	0 43	18 46	1 44	19 59	13 37	1 36	0 52	17 43	17 28	5 56			
T 21	20 1	15 13	3 58	12 45	2 26	10 31	1 42	11 17	0 4	8 50	1 7	14 13	1 32	0 57	0 43	18 46	1 44	19 58	13 37	1 32	0 50	17 43	17 28	5 55			
F 22	20 13	17 1	4 32	12 53	2 27	10 57	1 41	11 17	0 1	8 54	1 7	14 12	1 31	0 58	0 43	18 46	1 44	19 58	13 37	1 28	0 49	17 44	17 28	5 55			
S 23	20 26	18 5	4 54	13 5	2 28	11 23	1 41	11 18	0n 2	8 58	1 8	14 11	1 31	0 59	0 43	18 45	1 44	19 58	13 36	1 23	0 48	17 44	17 28	5 55			
S 24	20 38	18 22	5 3	13 20	2 27	11 48	1 40	11 19	0 5	9 2	1 8	14 10	1 31	1 0	0 43	18 45	1 44	19 58	13 36	1 18	0 47	17 45	17 28	5 55			
M25	20 50	17 51	4 59	13 38	2 25	12 13	1 39	11 20	0 7	9 6	1 8	14 9	1 31	1 1	0 43	18 45	1 44	19 57	13 36	1 14	0 45	17 45	17 28	5 55			
T 26	21 1	16 33	4 42	13 58	2 22	12 38	1 38	11 22	0 10	9 10	1 8	14 8	1 31	1 2	0 43	18 44	1 44	19 57	13 35	1 10	0 44	17 46	17 28	5 55			
W27	21 12	14 30	4 13	14 20	2 18	13 3	1 37	11 24	0 13	9 15	1 8	14 7	1 31	1 3	0 43	18 44	1 44	19 57	13 35	1 8	0 43	17 46	17 28	5 54			
T 28	21 23	11 47	3 31	14 43	2 14	13 27	1 36	11 26	0 16	9 19	1 8	14 6	1 31	1 3	0 43	18 44	1 43	19 56	13 35	1 6	0 42	17 47	17 28	5 54			
F 29	21 33	8 28	2 38	15 7	2 9	13 52	1 35	11 28	0 18	9 23	1 8	14 5	1 31	1 4	0 43	18 43	1 43	19 56	13 35	1 6	0 40	17 47	17 28	5 54			
S 30	21s43	4s42	1n37	15s33	2n 4	14s15	1n34	11n30	0n21	9s26	1n 8	14s 4	1s31	1s 5	0n43	18n43	1s43	19s56	13s34	1s 6	0s39	17s47	17s28	5n54			

Julian Day Number = 2470842.5, Delta T = 75.42 sec

Ecliptic obliquity = 23°25'48, Nutation = - 0°00'00, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°28'42, Lahiri = 24°35'43

# ASTRODIENST EPHEMERIS for the year 2052

## geocentric

DECEMBER 2052

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 42 14	9♂29'48	27♂29	20♂34	14♂17	29♂13	27♂28	26♂39	4♂26	1♂14	11♂3	2♂45	1♂35	16♂27	4♂18	S 1
M 2	4 46 11	10°30'36	11♂8	21°53	15°32	29°14	27°40	26°43	4°28	1♂12	11°3	2♂45	1°32	16°33	4°24	M 2
T 3	4 50 7	11°31'25	25°16	23°14	16°46	29°17	27°51	26°46	4°30	1°11	11°3	2°43	1°29	16°40	4°30	T 3
W 4	4 54 4	12°32'15	9♂53	24°37	18°1	29°20	28°2	26°49	4°32	1°9	11°3	2°39	1°25	16°47	4°36	W 4
T 5	4 58 0	13°33'06	24°54	26°2	19°16	29°24	28°13	26°53	4°34	1°7	11°4	2°32	1°22	16°53	4°42	T 5
F 6	5 1 57	14°33'58	10♂12	27°27	20°31	29°29	28°23	26°57	4°36	1°6	11°4	2°22	1°19	17°0	4°48	F 6
S 7	5 5 54	15°34'51	25°35	28°54	21°46	29°35	28°34	27°0	4°38	1°4	11°4	2°11	1°16	17°7	4°54	S 7
S 8	5 9 50	16°35'46	10♂51	0♂21	23°1	29°41	28°45	27°4	4°39	1°2	11°5	2°0	1°13	17°14	5°0	S 8
M 9	5 13 47	17°36'41	25°49	1°50	24°16	29°48	28°55	27°8	4°41	1°1	11°5	1°51	1°9	17°20	5°6	M 9
T 10	5 17 43	18°37'37	10♂23	3°19	25°31	29°56	29°6	27°12	4°43	0°59	11°5	1°43	1°6	17°27	5°12	T 10
W 11	5 21 40	19°38'35	24°27	4°48	26°46	0♂4	29°16	27°16	4°45	0°58	11°6	1°39	1°3	17°34	5°18	W 11
T 12	5 25 36	20°39'33	8♂1	6°18	28°1	0°13	29°27	27°20	4°46	0°56	11°6	1°37	1°0	17°41	5°24	T 12
F 13	5 29 33	21°40'33	21°7	7°48	29°16	0°23	29°37	27°25	4°48	0°54	11°7	1°D36	0°57	17°47	5°30	F 13
S 14	5 33 30	22°41'33	3♂50	9°19	0♂31	0°33	29°47	27°29	4°49	0°53	11°7	1°R36	0°54	17°54	5°37	S 14
S 15	5 37 26	23°42'35	16°14	10°50	1°46	0°44	29°57	27°33	4°50	0°51	11°8	1°35	0°50	18°1	5°43	S 15
M 16	5 41 23	24°43'38	28°24	12°21	3°1	0°55	0♂7	27°38	4°52	0°50	11°8	1°33	0°47	18°7	5°49	M 16
T 17	5 45 19	25°44'42	10♂24	13°52	4°16	1°8	0°17	27°42	4°53	0°48	11°9	1°28	0°44	18°14	5°55	T 17
W 18	5 49 16	26°45'46	22°18	15°24	5°31	1°20	0°27	27°47	4°54	0°47	11°9	1°19	0°41	18°21	6°1	W 18
T 19	5 53 12	27°46'52	4♂10	16°56	6°46	1°34	0°36	27°52	4°56	0°45	11°10	1°8	0°38	18°28	6°8	T 19
F 20	5 57 9	28°47'58	16°1	18°28	8°2	1°48	0°46	27°57	4°57	0°44	11°11	0°54	0°35	18°34	6°14	F 20
S 21	6 1 5	29°49'05	27°53	20°0	9°17	2°2	0°55	28°1	4°58	0°42	11°11	0°39	0°31	18°41	6°20	S 21
S 22	6 5 2	0♂50'12	9♂48	21°33	10°32	2°17	1°5	28°6	4°59	0°41	11°12	0°24	0°28	18°48	6°26	S 22
M 23	6 8 59	1°51'20	21°47	23°6	11°47	2°33	1°14	28°11	5°0	0°40	11°13	0°9	0°25	18°54	6°33	M 23
T 24	6 12 55	2°52'28	3♂50	24°39	13°2	2°49	1°23	28°17	5°1	0°38	11°13	29♂57	0°22	19°1	6°39	T 24
W 25	6 16 52	3°53'36	16°0	26°12	14°17	3°6	1°32	28°22	5°2	0°37	11°14	29°48	0°19	19°8	6°45	W 25
T 26	6 20 48	4°54'44	28°19	27°45	15°33	3°23	1°41	28°27	5°2	0°36	11°15	29°42	0°15	19°15	6°51	T 26
F 27	6 24 45	5°55'53	10♂50	29°19	16°48	3°40	1°50	28°32	5°3	0°34	11°16	29°38	0°12	19°21	6°58	F 27
S 28	6 28 41	6°57'01	23°36	0♂53	18°3	3°59	1°58	28°38	5°4	0°33	11°17	29°37	0°9	19°28	7°4	S 28
S 29	6 32 38	7°58'10	6♂42	2°27	19°18	4°17	2°7	28°43	5°5	0°32	11°17	29°37	0°6	19°35	7°10	S 29
M 30	6 36 34	8°59'18	20°11	4°2	20°33	4°36	2°15	28°49	5°5	0°30	11°18	29°37	0°3	19°42	7°16	M 30
T 31	6 40 31	10♂0'26	4♂6	5♂36	21♂49	4♂56	2♂24	28♂54	5♂6	0♂29	11♂19	29♂35	29♂59	19♂48	7♂23	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
S 1	21s52	0s34	0n28	15s59	1n58	14s39	1n33	11n33	0n23	9s30	1n 8	14 s 3	1s31	1s 6	0n43	18n43	1s43	19s55	13s34	1s 6	0s38	17s48	17s28	5n54			
M 2	22 1	3n43	0s44	16 26	1 52	15 2	1 31	11 36	0 26	9 34	1 8	14 2	1 31	1 7	0 43	18 42	1 43	19 55	13 34	1 6	0 36	17 48	17 28	5 54			
T 3	22 9	7 58	1 57	16 52	1 46	15 24	1 30	11 39	0 28	9 38	1 9	14 0	1 31	1 7	0 43	18 42	1 43	19 55	13 33	1 5	0 35	17 49	17 28	5 54			
W 4	22 17	11 52	3 3	17 19	1 39	15 47	1 28	11 43	0 30	9 42	1 9	13 59	1 30	1 8	0 43	18 42	1 43	19 54	13 33	1 3	0 34	17 49	17 28	5 53			
T 5	22 25	15 7	3 59	17 46	1 32	16 9	1 27	11 46	0 33	9 46	1 9	13 58	1 30	1 9	0 43	18 41	1 43	19 54	13 33	1 0	0 33	17 49	17 28	5 53			
F 6	22 32	17 22	4 39	18 12	1 25	16 30	1 25	11 50	0 35	9 49	1 9	13 56	1 30	1 10	0 43	18 41	1 43	19 54	13 32	0 56	0 31	17 50	17 28	5 53			
S 7	22 39	18 22	4 59	18 38	1 18	16 51	1 24	11 54	0 37	9 53	1 9	13 55	1 30	1 10	0 44	18 41	1 43	19 53	13 32	0 52	0 30	17 50	17 27	5 53			
S 8	22 45	18 2	4 58	19 4	1 11	17 12	1 22	11 58	0 39	9 57	1 9	13 54	1 30	1 11	0 44	18 40	1 43	19 53	13 32	0 48	0 29	17 51	17 27	5 53			
M 9	22 51	16 27	4 36	19 29	1 3	17 32	1 20	12 2	0 41	10 0	1 9	13 52	1 30	1 12	0 44	18 40	1 43	19 52	13 32	0 44	0 28	17 51	17 27	5 53			
T 10	22 57	13 50	3 56	19 54	0 56	17 52	1 19	12 7	0 43	10 4	1 9	13 51	1 30	1 12	0 44	18 40	1 43	19 52	13 31	0 41	0 26	17 52	17 27	5 53			
W 11	23 2	10 29	3 3	20 18	0 48	18 11	1 17	12 12	0 45	10 8	1 10	13 49	1 30	1 13	0 44	18 39	1 43	19 52	13 31	0 39	0 25	17 52	17 27	5 53			
T 12	23 6	6 41	2 1	20 41	0 41	18 30	1 15	12 17	0 47	10 11	1 10	13 48	1 30	1 14	0 44	18 39	1 43	19 51	13 31	0 38	0 24	17 52	17 27	5 53			
F 13	23 10	2 40	0 55	21 3	0 34	18 48	1 13	12 22	0 49	10 15	1 10	13 46	1 30	1 14	0 44	18 39	1 43	19 51	13 30	0 38	0 23	17 53	17 26	5 53			
S 14	23 14	1s21	0n12	21 24	0 26	19 6	1 11	12 27	0 51	10 18	1 10	13 45	1 30	1 15	0 44	18 39	1 43	19 50	13 30	0 38	0 21	17 53	17 26	5 53			
S 15	23 17	5 12	1 17	21 45	0 19	19 23	1 9	12 32	0 52	10 21	1 10	13 43	1 30	1 15	0 44	18 38	1 43	19 50	13 30	0 38	0 20	17 53	17 26	5 53			
M 16	23 19	8 46	2 17	22 4	0 12	19 39	1 7	12 38	0 54	10 25	1 10	13 41	1 29	1 16	0 44	18 38	1 43	19 49	13 30	0 37	0 19	17 54	17 26	5 53			
T 17	23 22	11 56	3 10	22 23	0 4	19 56	1 5	12 44	0 56	10 28	1 10	13 40	1 29	1 16	0 44	18 38	1 43	19 49	13 29	0 35	0 18	17 54	17 25	5 53			
W 18	23 23	14 34	3 54	22 40	0s 3	20 11	1 3	12 50	0 57	10 31	1 10	13 38	1 29	1 17	0 44	18 37	1 43	19 48	13 29	0 32	0 16	17 55	17 25	5 53			
T 19	23 25	16 35	4 27	22 57	0 10	20 26	1 1	12 56	0 59	10 35	1 11	13 36	1 29	1 17	0 44	18 37	1 43	19 48	13 29	0 27	0 15	17 55	17 25	5 53			
F 20	23 25	17 54	4 49	23 12	0 17	20 41	0 58	13 2	1 0	10 38	1 11	13 35	1 29	1 17	0 44	18 37	1 43	19 47	13 28	0 22	0 14	17 55	17 25	5 53			
S 21	23 26	18 26	4 59	23 26	0 23	20 54	0 56	13 8	1 2	10 41	1 11	13 33	1 29	1 18	0 44	18 37	1 43	19 47	13 28	0 16	0 12	17 56	17 24	5 53			
S 22	23 26	18 10	4 55	23 40	0 30	21 8	0 54	13 15	1 3	10 44	1 11	13 31	1 29	1 18	0 44	18 36	1 43	19 46	13 28	0 9	0 11	17 56	17 24	5 53			
M 23	23 25	17 5	4 39	23 51	0 36	21 20	0 52	13 22	1 4	10 47	1 11	13 29	1 29	1 19	0 44	18 36	1 43	19 46	13 28	0 4	0 10	17 56	17 24	5 53			
T 24	23 24	15 15	4 9	24 2	0 43	21 32	0 49	13 28	1 6	10 50	1 11	13 28	1 29	1 19	0 44	18 36	1 43	19 45	13 27	0n 1	0 9	17 57	17 23	5 53			
W 25	23 22	12 43	3 28	24 12	0 49	21 44	0 47	13 35	1 7	10 53	1 12	13 26	1 29	1 19	0 44	18 36	1 43	19 45	13 27	0 5	0 7	17 57	17 23	5 53			
T 26	23 20	9 36	2 37	24 20	0 55	21 54	0 45	13 42	1 8	10 56	1 12	13 24	1 29	1 20	0 44	18 35	1 43	19 44	13 27	0 7	0 6	17 58	17 23	5 53			
F 27	23 18	6 0	1 38	24 27	1 1	22 4	0 42	13 49	1 9	10 59	1 12	13 22	1 29	1 20	0 44	18 35	1 43	19 44	13 27	0 9	0 5	17 58	17 22	5 53			
S 28	23 15	2 3	0 32	24 32	1 7	22 14	0 40	13 57	1 10	11 2	1 12	13 20	1 29	1 20	0 44	18 35	1 43	19 43	13 26	0 9	0 4	17 58	17 22	5 53			
S 29	23 11	2n 5	0s37	24 37	1 12	22 23	0 37	14 4	1 12	11 4	1 12	13 18	1 29	1 20	0 44	18 35	1 43	19 42	13 26	0 9	0 2	17 59	17 22	5 53			
M 30	23 8	6 14	1 46	24 40	1 17	22 31	0 35	14 11	1 13	11 7	1 12	13 16	1 29	1 20	0 44	18 35	1 43	19 42	13 26	0 9	0 1	17 59	17 21	5 53			
T 31	23s 3	10n11	2s51	24s41	1s23	22s38	0n32	14n19	1n14	11s10	1n12	13s14	1s29	1s21	0n44	18n34	1s43	19s41	13s26	0n10	0n 0	17s59	17s21	5n53			