



# Astrodienst Ephemeris Tables for the year 2080

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 2080  
geocentric

JANUARY 2080

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 42 20	10 <sup>3</sup> 27'23	18 <sup>1</sup> 16	14 <sup>3</sup> 35	6 <sup>2</sup> 40	6 <sup>1</sup> 5	25 <sup>3</sup> 4	3 <sup>2</sup> 28	0 <sup>2</sup> 29	2 <sup>2</sup> 25	12 <sup>1</sup> 10	18 <sup>1</sup> 7	17 <sup>1</sup> 46	8 <sup>3</sup> 28	6 <sup>1</sup> 53	M 1
T 2	6 46 16	11 <sup>1</sup> 28'32	1 <sup>8</sup> 44	16 <sup>1</sup> 12	7 <sup>1</sup> 54	6 <sup>1</sup> 40	25 <sup>1</sup> 18	3 <sup>1</sup> 34	0 <sup>1</sup> 32	2 <sup>1</sup> 24	12 <sup>1</sup> 10	18 <sup>1</sup> 7	17 <sup>1</sup> 43	8 <sup>3</sup> 35	6 <sup>1</sup> 52	T 2
W 3	6 50 13	12 <sup>1</sup> 29'40	15 <sup>1</sup> 40	17 <sup>1</sup> 50	9 <sup>1</sup> 8	7 <sup>1</sup> 15	25 <sup>1</sup> 32	3 <sup>1</sup> 41	0 <sup>1</sup> 36	2 <sup>1</sup> 22	12 <sup>1</sup> 10	18 <sup>1</sup> 5	17 <sup>1</sup> 39	8 <sup>3</sup> 41	6 <sup>1</sup> 51	W 3
T 4	6 54 9	13 <sup>1</sup> 30'49	0 <sup>1</sup> 11	19 <sup>1</sup> 27	10 <sup>1</sup> 22	7 <sup>1</sup> 51	25 <sup>1</sup> 45	3 <sup>1</sup> 48	0 <sup>1</sup> 39	2 <sup>1</sup> 21	12 <sup>1</sup> 10	18 <sup>1</sup> 0	17 <sup>1</sup> 36	8 <sup>3</sup> 48	6 <sup>1</sup> 51	T 4
F 5	6 58 6	14 <sup>1</sup> 31'57	14 <sup>1</sup> 57	21 <sup>1</sup> 6	11 <sup>1</sup> 36	8 <sup>1</sup> 26	25 <sup>1</sup> 59	3 <sup>1</sup> 55	0 <sup>1</sup> 42	2 <sup>1</sup> 19	12 <sup>1</sup> 11	17 <sup>1</sup> 53	17 <sup>1</sup> 33	8 <sup>3</sup> 55	6 <sup>1</sup> 50	F 5
S 6	7 2 3	15 <sup>1</sup> 33'06	0 <sup>1</sup> 29	22 <sup>1</sup> 44	12 <sup>1</sup> 50	9 <sup>1</sup> 1	26 <sup>1</sup> 13	4 <sup>1</sup> 2	0 <sup>1</sup> 46	2 <sup>1</sup> 18	12 <sup>1</sup> 11	17 <sup>1</sup> 43	17 <sup>1</sup> 30	9 <sup>1</sup> 1	6 <sup>1</sup> 49	S 6
S 7	7 5 59	16 <sup>1</sup> 34'14	15 <sup>1</sup> 31	24 <sup>1</sup> 23	14 <sup>1</sup> 4	9 <sup>1</sup> 36	26 <sup>1</sup> 27	4 <sup>1</sup> 9	0 <sup>1</sup> 49	2 <sup>1</sup> 16	12 <sup>1</sup> 11	17 <sup>1</sup> 31	17 <sup>1</sup> 27	9 <sup>1</sup> 8	6 <sup>1</sup> 49	S 7
M 8	7 9 56	17 <sup>1</sup> 35'22	0 <sup>1</sup> 21	26 <sup>1</sup> 2	15 <sup>1</sup> 18	10 <sup>1</sup> 11	26 <sup>1</sup> 41	4 <sup>1</sup> 16	0 <sup>1</sup> 53	2 <sup>1</sup> 14	12 <sup>1</sup> 11	17 <sup>1</sup> 19	17 <sup>1</sup> 23	9 <sup>1</sup> 15	6 <sup>1</sup> 48	M 8
T 9	7 13 52	18 <sup>1</sup> 36'30	15 <sup>1</sup> 58	27 <sup>1</sup> 41	16 <sup>1</sup> 32	10 <sup>1</sup> 46	26 <sup>1</sup> 55	4 <sup>1</sup> 23	0 <sup>1</sup> 56	2 <sup>1</sup> 13	12 <sup>1</sup> 12	17 <sup>1</sup> 9	17 <sup>1</sup> 20	9 <sup>1</sup> 22	6 <sup>1</sup> 48	T 9
W10	7 17 49	19 <sup>1</sup> 37'38	0 <sup>1</sup> 14	29 <sup>1</sup> 20	17 <sup>1</sup> 46	11 <sup>1</sup> 21	27 <sup>1</sup> 10	4 <sup>1</sup> 30	1 <sup>1</sup> 0	2 <sup>1</sup> 11	12 <sup>1</sup> 12	17 <sup>1</sup> 0	17 <sup>1</sup> 17	9 <sup>1</sup> 28	6 <sup>1</sup> 47	W10
T 11	7 21 45	20 <sup>1</sup> 38'46	14 <sup>1</sup> 58	0 <sup>1</sup> 59	19 <sup>1</sup> 0	11 <sup>1</sup> 56	27 <sup>1</sup> 24	4 <sup>1</sup> 37	1 <sup>1</sup> 3	2 <sup>1</sup> 9	12 <sup>1</sup> 12	16 <sup>1</sup> 55	17 <sup>1</sup> 14	9 <sup>1</sup> 35	6 <sup>1</sup> 47	T 11
F 12	7 25 42	21 <sup>1</sup> 39'53	28 <sup>1</sup> 44	2 <sup>1</sup> 39	20 <sup>1</sup> 14	12 <sup>1</sup> 31	27 <sup>1</sup> 38	4 <sup>1</sup> 44	1 <sup>1</sup> 7	2 <sup>1</sup> 8	12 <sup>1</sup> 13	16 <sup>1</sup> 52	17 <sup>1</sup> 11	9 <sup>1</sup> 42	6 <sup>1</sup> 47	F 12
S 13	7 29 38	22 <sup>1</sup> 41'01	11 <sup>1</sup> 59	4 <sup>1</sup> 18	21 <sup>1</sup> 28	13 <sup>1</sup> 5	27 <sup>1</sup> 52	4 <sup>1</sup> 51	1 <sup>1</sup> 10	2 <sup>1</sup> 6	12 <sup>1</sup> 13	16 <sup>1</sup> 51	17 <sup>1</sup> 8	9 <sup>1</sup> 49	6 <sup>1</sup> 46	S 13
S 14	7 33 35	23 <sup>1</sup> 42'09	24 <sup>1</sup> 50	5 <sup>1</sup> 57	22 <sup>1</sup> 42	13 <sup>1</sup> 40	28 <sup>1</sup> 6	4 <sup>1</sup> 58	1 <sup>1</sup> 14	2 <sup>1</sup> 4	12 <sup>1</sup> 14	16 <sup>1</sup> 51	17 <sup>1</sup> 4	9 <sup>1</sup> 55	6 <sup>1</sup> 46	S 14
M15	7 37 32	24 <sup>1</sup> 43'17	7 <sup>1</sup> 19	7 <sup>1</sup> 36	23 <sup>1</sup> 56	14 <sup>1</sup> 15	28 <sup>1</sup> 20	5 <sup>1</sup> 5	1 <sup>1</sup> 17	2 <sup>1</sup> 3	12 <sup>1</sup> 14	16 <sup>1</sup> 51	17 <sup>1</sup> 1	10 <sup>1</sup> 2	6 <sup>1</sup> 46	M15
T 16	7 41 28	25 <sup>1</sup> 44'25	19 <sup>1</sup> 32	9 <sup>1</sup> 14	25 <sup>1</sup> 11	14 <sup>1</sup> 49	28 <sup>1</sup> 34	5 <sup>1</sup> 12	1 <sup>1</sup> 21	2 <sup>1</sup> 1	12 <sup>1</sup> 14	16 <sup>1</sup> 49	16 <sup>1</sup> 58	10 <sup>1</sup> 9	6 <sup>1</sup> 46	T 16
W17	7 45 25	26 <sup>1</sup> 45'32	1 <sup>1</sup> 33	10 <sup>1</sup> 52	26 <sup>1</sup> 25	15 <sup>1</sup> 24	28 <sup>1</sup> 48	5 <sup>1</sup> 19	1 <sup>1</sup> 24	1 <sup>1</sup> 59	12 <sup>1</sup> 15	16 <sup>1</sup> 44	16 <sup>1</sup> 55	10 <sup>1</sup> 15	6 <sup>1</sup> 46	W17
T 18	7 49 21	27 <sup>1</sup> 46'40	13 <sup>1</sup> 28	12 <sup>1</sup> 28	27 <sup>1</sup> 39	15 <sup>1</sup> 58	29 <sup>1</sup> 2	5 <sup>1</sup> 26	1 <sup>1</sup> 28	1 <sup>1</sup> 58	12 <sup>1</sup> 15	16 <sup>1</sup> 37	16 <sup>1</sup> 52	10 <sup>1</sup> 22	6 <sup>1</sup> 46	T 18
F 19	7 53 18	28 <sup>1</sup> 47'47	25 <sup>1</sup> 19	14 <sup>1</sup> 4	28 <sup>1</sup> 54	16 <sup>1</sup> 33	29 <sup>1</sup> 16	5 <sup>1</sup> 33	1 <sup>1</sup> 31	1 <sup>1</sup> 56	12 <sup>1</sup> 16	16 <sup>1</sup> 26	16 <sup>1</sup> 49	10 <sup>1</sup> 29	6 <sup>1</sup> 46	F 19
S 20	7 57 14	29 <sup>1</sup> 48'53	7 <sup>1</sup> 310	15 <sup>1</sup> 38	0 <sup>1</sup> 8	17 <sup>1</sup> 7	29 <sup>1</sup> 31	5 <sup>1</sup> 40	1 <sup>1</sup> 35	1 <sup>1</sup> 54	12 <sup>1</sup> 17	16 <sup>1</sup> 13	16 <sup>1</sup> 45	10 <sup>1</sup> 36	6 <sup>1</sup> 46	S 20
S 21	8 1 11	0 <sup>1</sup> 49'59	19 <sup>1</sup> 2	17 <sup>1</sup> 11	1 <sup>1</sup> 22	17 <sup>1</sup> 41	29 <sup>1</sup> 45	5 <sup>1</sup> 47	1 <sup>1</sup> 38	1 <sup>1</sup> 53	12 <sup>1</sup> 17	15 <sup>1</sup> 59	16 <sup>1</sup> 42	10 <sup>1</sup> 42	6 <sup>1</sup> 47	S 21
M22	8 5 7	1 <sup>1</sup> 51'05	0 <sup>1</sup> 58	18 <sup>1</sup> 41	2 <sup>1</sup> 37	18 <sup>1</sup> 15	29 <sup>1</sup> 59	5 <sup>1</sup> 54	1 <sup>1</sup> 42	1 <sup>1</sup> 51	12 <sup>1</sup> 18	15 <sup>1</sup> 44	16 <sup>1</sup> 39	10 <sup>1</sup> 49	6 <sup>1</sup> 47	M22
T 23	8 9 4	2 <sup>1</sup> 52'10	12 <sup>1</sup> 58	20 <sup>1</sup> 9	3 <sup>1</sup> 51	18 <sup>1</sup> 49	0 <sup>1</sup> 13	6 <sup>1</sup> 2	1 <sup>1</sup> 45	1 <sup>1</sup> 49	12 <sup>1</sup> 18	15 <sup>1</sup> 31	16 <sup>1</sup> 36	10 <sup>1</sup> 56	6 <sup>1</sup> 47	T 23
W24	8 13 1	3 <sup>1</sup> 53'14	25 <sup>1</sup> 3	21 <sup>1</sup> 33	5 <sup>1</sup> 5	19 <sup>1</sup> 24	0 <sup>1</sup> 27	6 <sup>1</sup> 9	1 <sup>1</sup> 49	1 <sup>1</sup> 48	12 <sup>1</sup> 19	15 <sup>1</sup> 19	16 <sup>1</sup> 33	11 <sup>1</sup> 2	6 <sup>1</sup> 48	W24
T 25	8 16 57	4 <sup>1</sup> 54'18	7 <sup>1</sup> 15	22 <sup>1</sup> 54	6 <sup>1</sup> 20	19 <sup>1</sup> 57	0 <sup>1</sup> 41	6 <sup>1</sup> 16	1 <sup>1</sup> 52	1 <sup>1</sup> 46	12 <sup>1</sup> 20	15 <sup>1</sup> 10	16 <sup>1</sup> 29	11 <sup>1</sup> 9	6 <sup>1</sup> 48	T 25
F 26	8 20 54	5 <sup>1</sup> 55'20	19 <sup>1</sup> 35	24 <sup>1</sup> 10	7 <sup>1</sup> 34	20 <sup>1</sup> 31	0 <sup>1</sup> 55	6 <sup>1</sup> 23	1 <sup>1</sup> 56	1 <sup>1</sup> 44	12 <sup>1</sup> 20	15 <sup>1</sup> 4	16 <sup>1</sup> 26	11 <sup>1</sup> 16	6 <sup>1</sup> 49	F 26
S 27	8 24 50	6 <sup>1</sup> 56'21	2 <sup>1</sup> 6	25 <sup>1</sup> 21	8 <sup>1</sup> 48	21 <sup>1</sup> 5	1 <sup>1</sup> 9	6 <sup>1</sup> 30	2 <sup>1</sup> 0	1 <sup>1</sup> 42	12 <sup>1</sup> 21	15 <sup>1</sup> 1	16 <sup>1</sup> 23	11 <sup>1</sup> 23	6 <sup>1</sup> 49	S 27
S 28	8 28 47	7 <sup>1</sup> 57'22	14 <sup>1</sup> 50	26 <sup>1</sup> 26	10 <sup>1</sup> 3	21 <sup>1</sup> 39	1 <sup>1</sup> 24	6 <sup>1</sup> 37	2 <sup>1</sup> 3	1 <sup>1</sup> 41	12 <sup>1</sup> 22	15 <sup>1</sup> D 1	16 <sup>1</sup> 20	11 <sup>1</sup> 29	6 <sup>1</sup> 50	S 28
M29	8 32 43	8 <sup>1</sup> 58'21	27 <sup>1</sup> 52	27 <sup>1</sup> 25	11 <sup>1</sup> 17	22 <sup>1</sup> 12	1 <sup>1</sup> 38	6 <sup>1</sup> 45	2 <sup>1</sup> 7	1 <sup>1</sup> 39	12 <sup>1</sup> 22	15 <sup>1</sup> 1	16 <sup>1</sup> 17	11 <sup>1</sup> 36	6 <sup>1</sup> 51	M29
T 30	8 36 40	9 <sup>1</sup> 59'19	11 <sup>1</sup> 13	28 <sup>1</sup> 16	12 <sup>1</sup> 32	22 <sup>1</sup> 46	1 <sup>1</sup> 52	6 <sup>1</sup> 52	2 <sup>1</sup> 10	1 <sup>1</sup> 37	12 <sup>1</sup> 23	15 <sup>1</sup> R 1	16 <sup>1</sup> 14	11 <sup>1</sup> 43	6 <sup>1</sup> 52	T 30
W31	8 40 36	11 <sup>1</sup> 58'016	24 <sup>1</sup> 58	28 <sup>1</sup> 58	13 <sup>1</sup> 346	23 <sup>1</sup> 19	2 <sup>1</sup> 6	6 <sup>1</sup> 59	2 <sup>1</sup> 14	1 <sup>1</sup> 36	12 <sup>1</sup> 24	15 <sup>1</sup> 0	16 <sup>1</sup> 10	11 <sup>1</sup> 50	6 <sup>1</sup> 52	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂	♂	♂	♂			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂	♂			
M 1	23s 1	7n10	0n 1	24s36	1s59	19s47	1n39	12s23	1n13	21s25	0s19	19s49	0s27	20s34	0s32	19n17	0s21	10s50	17s 0	7n 6	6n58	28s14	12n42	1s10
T 2	22 56	13 11	1 11	24 27	2 1	20 1	1 37	12 35	1 13	21 23	0 19	19 47	0 27	20 33	0 32	19 17	0 21	10 50	16 59	7 6	6 57	28 13	12 42	1 10
W 3	22 51	18 45	2 20	24 17	2 4	20 15	1 35	12 47	1 13	21 20	0 19	19 46	0 27	20 33	0 32	19 17	0 21	10 50	16 59	7 5	6 56	28 13	12 41	1 10
T 4	22 45	23 27	3 22	24 5	2 5	20 28	1 33	12 58	1 13	21 18	0 19	19 44	0 27	20 32	0 32	19 18	0 21	10 49	16 59	7 4	6 54	28 13	12 41	1 10
F 5	22 38	26 46	4 12	23 52	2 7	20 40	1 30	13 10	1 12	21 15	0 19	19 42	0 27	20 31	0 32	19 18	0 21	10 49	16 58	7 1	6 53	28 12	12 41	1 10
S 6	22 32	28 12	4 46	23 37	2 8	20 52	1 28	13 21	1 12	21 13	0 19	19 41	0 27	20 30	0 32	19 18	0 21	10 48	16 58	6 57	6 52	28 12	12 41	1 10
S 7	22 24	27 29	5 0	23 20	2 8	21 3	1 26	13 33	1 12	21 10	0 19	19 39	0 27	20 30	0 32	19 19	0 21	10 48	16 58	6 52	6 51	28 12	12 40	1 10
M 8	22 17	24 42	4 52	23 2	2 8	21 14	1 24	13 44	1 12	21 8	0 19	19 38	0 27	20 29	0 32	19 19	0 21	10 47	16 57	6 48	6 50	28 11	12 40	1 10
T 9	22 8	20 14	4 23	22 42	2 8	21 24	1 21	13 55	1 12	21 5	0 19	19 36	0 27	20 28	0 32	19 19	0 21	10 47	16 57	6 44	6 48	28 11	12 40	1 10
W10	22 0	14 36	3 38	22 21	2 7	21 34	1 19	14 6	1 11	21 2	0 19	19 35	0 27	20 27	0 32	19 20	0 21	10 47	16 56	6 41	6 47	28 11	12 40	1 10
T 11	21 51	8 22	2 40	21 59	2 6	21 43	1 16	14 17	1 11	21 0	0 20	19 33	0 27	20 27	0 32	19 20	0 21	10 46	16 56	6 39	6 46	28 10	12 40	1 10
F 12	21 41	1 57	1 34	21 34	2 4	21 51	1 14	14 28	1 11	20 57	0 20	19 31	0 28	20 26	0 32	19 21	0 21	10 46	16 56	6 38	6 45	28 10	12 40	1 10
S 13	21 31	4s21	0 26	21 9	2 1	21 58	1 11	14 38	1 11	20 54	0 20	19 30	0 28	20 25	0 32	19 21	0 21	10 45	16 55	6 37	6 43	28 9	12 40	1 11
S 14	21 21	10 16	0s42	20 41	1 58	22 5	1 9	14 49	1 10	20 52	0 20	19 28	0 28	20 24	0 32	19 21	0 21	10 45	16 55	6 37	6 42	28 9	12 40	1 11
M15	21 10	15 37	1 46	20 13	1 55	22 12	1 6	15 0	1 10	20 49	0 20	19 26	0 28	20 24	0 32	19 22	0 21	10 44	16 55	6 37	6 41	28 9	12 40	1 11
T 16	20 59	20 14	2 43	19 43	1 51	22 17	1 3	15 10	1 10	20 46	0 20	19 25	0 28	20 23	0 32	19 22	0 21	10 44	16 54	6 36	6 40	28 8	12 40	1 11
W17	20 48	23 56	3 33	19 12	1 46	22 22	1 1	15 20	1 10	20 43	0 20	19 23	0 28	20 22	0 32	19 23	0 21	10 43	16 54	6 35	6 39	28 8	12 40	1 11
T 18	20 36	26 34	4 12	18 39	1 40	22 27	0 58	15 30	1 9	20 40	0 20	19 21	0 28	20 21	0 32	19 23	0 21	10 43	16 54	6 32	6 37	28 7	12 40	1 11
F 19	20 24	28 1	4 40	18 6	1 34	22 30	0 55	15 41	1 9	20 38	0 20	19 20	0 28	20 21	0 32	19 23	0 21	10 42	16 53	6 28	6 36	28 7	12 40	1 11
S 20	20 11	28 10	4 56	17 31	1 26	22 33	0 52	15 51	1 9	20 35	0 20	19 18	0 28	20 20	0 32	19 24	0 21	10 42	16 53	6 23	6 35	28 6	12 40	1 11
S 21	19 58	27 1	4 59	16 56	1 18	22 36	0 50	16 0	1 8	20 32	0 20	19 16	0 28	20 19	0 32	19 24	0 21	10 41	16 53	6 17	6 34	28 6	12 40	1 11
M22	19 44	24 39	4 50	16 19	1 10	22 37	0 47	16 10	1 8	20 29	0 21	19 15	0 28	20 18	0 32	19 24	0 21	10 41	16 52	6 11	6 33	28 6	12 40	1 11
T 23	19 31	21 11	4 27	15 43	1 0	22 38	0 44	16 20	1 8	20 26	0 21	19 13	0 28	20 17	0 32	19 25	0 21	10 40	16 52	6 6	6 31	28 5	12 40	1 11
W24	19 17	16 48	3 52	15 6	0 49	22 39	0 41	16 29	1 7	20 23	0 21	19 11	0 28	20 17	0 32	19 25	0 21	10 39	16 52	6 2	6 30	28 5	12 40	1 11
T 25	19 2	11 43	3 6	14 29	0 38	22 38	0 38	16 39	1 7	20 20	0 21	19 10	0 28	20 16	0 33	19 26	0 21	10 39	16 51	5 58	6 29	28 4	12 40	1 11
F 26	18 47	6 8	2 11	13 52	0 26	22 37	0 36	16 48	1 7	20 17	0 21	19 8	0 28	20 15	0 33	19 26	0 21	10 38	16 51	5 56	6 28	28 4	12 40	1 11
S 27	18 32	0 13	1 8	13 16	0 12	22 36	0 33	16 57	1 6	20 14	0 21	19 6	0 29	20 14	0 33	19 26	0 20	10 38	16 51	5 55	6 26	28 3	12 41	1 11
S 28	18 16	5n50	0 1	12 40	0n 2	22 33	0 30	17 7	1 6	20 11	0 21	19 4	0 29	20 13	0 33	19 27	0 20	10 37	16 50	5 55	6 25	28 3	12 41	1 11
M29	18 0	11 46	1n 8	12 6	0 17	22 30	0 27	17 16	1 6	20 8	0 21	19 3	0 29	20 13	0 33	19 27	0 20	10 37	16 50	5 55	6 24	28 2	12 41	1 11
T30	17 44	17 20	2 15	11 34	0 32	22 26	0 24	17 24	1 5	20 5	0 21	19 1	0 29	20 12	0 33	19 28	0 20	10 36	16 50	5 55	6 23	28 1	12 41	1 11
W31	17s28	22n10	3n16	11s 4	0n48	22s22	0n21	17s33	1n 5	20s 2	0s21	18s59	0s29	20s11	0s33	19n28	0s20	10s35	16s49	5n55	6n22	28s 1	12n41	1s10

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

FEBRUARY 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 33	12° 1'11	9° 8	29° 31	15° 1	23° 53	2° 20	7° 6	2° 17	1° 34	12° 25	14° 57	16° 7	11° 56	6° 53	T 1
F 2	8 48 30	13° 2'06	23° 41	29° 55	16° 15	24° 26	2° 34	7° 13	2° 21	1° 32	12° 26	14° 52	16° 4	12° 3	6° 54	F 2
S 3	8 52 26	14° 2'59	8° 34	0° 8	17° 30	24° 59	2° 48	7° 20	2° 24	1° 31	12° 26	14° 44	16° 1	12° 10	6° 55	S 3
S 4	8 56 23	15° 3'51	23° 40	0° R10	18° 44	25° 33	3° 2	7° 27	2° 28	1° 29	12° 27	14° 35	15° 58	12° 16	6° 56	S 4
M 5	9 0 19	16° 4'42	8° 49	0° 1	19° 59	26° 6	3° 16	7° 34	2° 31	1° 27	12° 28	14° 26	15° 55	12° 23	6° 58	M 5
T 6	9 4 16	17° 5'31	23° 51	29° 41	21° 13	26° 39	3° 30	7° 42	2° 34	1° 26	12° 29	14° 17	15° 51	12° 30	6° 59	T 6
W 7	9 8 12	18° 6'19	8° 36	29° 10	22° 28	27° 11	3° 44	7° 49	2° 38	1° 24	12° 30	14° 10	15° 48	12° 37	7° 0	W 7
T 8	9 12 9	19° 7'07	22° 57	28° 29	23° 42	27° 44	3° 58	7° 56	2° 41	1° 23	12° 31	14° 6	15° 45	12° 43	7° 1	T 8
F 9	9 16 6	20° 7'53	6° 51	27° 39	24° 57	28° 17	4° 12	8° 3	2° 45	1° 21	12° 32	14° 4	15° 42	12° 50	7° 3	F 9
S 10	9 20 2	21° 8'38	20° 15	26° 41	26° 11	28° 49	4° 25	8° 10	2° 48	1° 19	12° 33	14° D 4	15° 39	12° 57	7° 4	S 10
S 11	9 23 59	22° 9'22	3° 13	25° 37	27° 26	29° 22	4° 39	8° 17	2° 52	1° 18	12° 34	14° 5	15° 35	13° 3	7° 5	S 11
M 12	9 27 55	23° 10'05	15° 48	24° 30	28° 40	29° 54	4° 53	8° 24	2° 55	1° 16	12° 35	14° 6	15° 32	13° 10	7° 7	M 12
T 13	9 31 52	24° 10'47	28° 4	23° 19	29° 55	0° 27	5° 7	8° 31	2° 58	1° 15	12° 36	14° R 6	15° 29	13° 17	7° 9	T 13
W 14	9 35 48	25° 11'28	10° 8	22° 9	1° 9	0° 59	5° 21	8° 38	3° 2	1° 13	12° 37	14° 5	15° 26	13° 24	7° 10	W 14
T 15	9 39 45	26° 12'08	22° 2	21° 0	2° 24	1° 31	5° 34	8° 45	3° 5	1° 12	12° 38	14° 1	15° 23	13° 30	7° 12	T 15
F 16	9 43 41	27° 12'47	3° 53	19° 54	3° 39	2° 3	5° 48	8° 52	3° 8	1° 10	12° 39	13° 56	15° 20	13° 37	7° 14	F 16
S 17	9 47 38	28° 13'24	15° 44	18° 53	4° 53	2° 35	6° 2	8° 59	3° 12	1° 9	12° 40	13° 48	15° 16	13° 44	7° 15	S 17
S 18	9 51 35	29° 14'00	27° 39	17° 57	6° 8	3° 6	6° 15	9° 5	3° 15	1° 7	12° 41	13° 40	15° 13	13° 51	7° 17	S 18
M 19	9 55 31	0° 14'35	9° 39	17° 8	7° 22	3° 38	6° 29	9° 12	3° 18	1° 6	12° 42	13° 31	15° 10	13° 57	7° 19	M 19
T 20	9 59 28	1° 15'08	21° 47	16° 26	8° 37	4° 9	6° 42	9° 19	3° 21	1° 4	12° 43	13° 23	15° 7	14° 4	7° 21	T 20
W 21	10 3 24	2° 15'40	4° 3	15° 52	9° 51	4° 41	6° 56	9° 26	3° 25	1° 3	12° 45	13° 16	15° 4	14° 11	7° 23	W 21
T 22	10 7 21	3° 16'10	16° 29	15° 25	11° 6	5° 12	7° 9	9° 33	3° 28	1° 2	12° 46	13° 10	15° 1	14° 17	7° 25	T 22
F 23	10 11 17	4° 16'39	29° 6	15° 6	12° 21	5° 43	7° 23	9° 39	3° 31	1° 0	12° 47	13° 7	14° 57	14° 24	7° 27	F 23
S 24	10 15 14	5° 17'05	11° 53	14° 54	13° 35	6° 14	7° 36	9° 46	3° 34	0° 59	12° 48	13° D 6	14° 54	14° 31	7° 29	S 24
S 25	10 19 10	6° 17'30	24° 53	14° D 49	14° 50	6° 45	7° 49	9° 53	3° 37	0° 58	12° 49	13° 7	14° 51	14° 38	7° 32	S 25
M 26	10 23 7	7° 17'54	8° 7	14° 51	16° 4	7° 15	8° 3	9° 59	3° 40	0° 56	12° 50	13° 8	14° 48	14° 44	7° 34	M 26
T 27	10 27 3	8° 18'15	21° 35	15° 0	17° 19	7° 46	8° 16	10° 6	3° 43	0° 55	12° 52	13° 10	14° 45	14° 51	7° 36	T 27
W 28	10 31 0	9° 18'34	5° 19	15° 14	18° 33	8° 16	8° 29	10° 13	3° 46	0° 54	12° 53	13° R 11	14° 41	14° 58	7° 38	W 28
T 29	10 34 57	10° 18'51	19° 20	15° 35	19° 48	8° 46	8° 42	10° 19	3° 49	0° 52	12° 54	13° Y 11	14° Y 38	15° 5	7° 41	T 29

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
T 1	17s11	25n53	4n 7	10s37	1n 5	22s17	0n19	17s42	1n 4	19s59	0s22	18s57	0s29	20s10	0s33	19n28	0s20	10s35	16s49	5n53	6n20	28s 0	12n42	1s11	
F 2	16 54	28 0	4 43	10 13	1 22	22 11	0 16	17 50	1 4	19 56	0 22	18 56	0 29	20 10	0 33	19 29	0 20	10 34	16 49	5 51	6 19	28 0	12 42	1 11	
S 3	16 36	28 11	5 2	9 52	1 40	22 4	0 13	17 59	1 4	19 53	0 22	18 54	0 29	20 9	0 33	19 29	0 20	10 34	16 48	5 48	6 18	27 59	12 42	1 11	
S 4	16 19	26 17	5 0	9 35	1 57	21 57	0 10	18 7	1 3	19 50	0 22	18 52	0 29	20 8	0 33	19 29	0 20	10 33	16 48	5 45	6 17	27 59	12 43	1 11	
M 5	16 1	22 30	4 37	9 23	2 14	21 50	0 7	18 15	1 3	19 47	0 22	18 50	0 29	20 7	0 33	19 30	0 20	10 32	16 48	5 41	6 15	27 58	12 43	1 11	
T 6	15 42	17 15	3 55	9 14	2 30	21 41	0 4	18 23	1 2	19 43	0 22	18 49	0 29	20 6	0 33	19 30	0 20	10 32	16 47	5 38	6 14	27 57	12 43	1 11	
W 7	15 24	11 5	2 58	9 11	2 45	21 32	0 2	18 31	1 2	19 40	0 22	18 47	0 29	20 6	0 33	19 31	0 20	10 31	16 47	5 35	6 13	27 57	12 44	1 11	
T 8	15 5	4 29	1 51	9 12	2 59	21 22	0s 1	18 39	1 1	19 37	0 22	18 45	0 29	20 5	0 33	19 31	0 20	10 31	16 47	5 34	6 12	27 56	12 44	1 11	
F 9	14 46	2s 7	0 39	9 17	3 12	21 12	0 4	18 47	1 1	19 34	0 22	18 43	0 30	20 4	0 33	19 31	0 20	10 30	16 47	5 33	6 11	27 56	12 45	1 11	
S 10	14 27	8 25	0s33	9 27	3 22	21 1	0 7	18 55	1 0	19 31	0 22	18 42	0 30	20 3	0 33	19 32	0 20	10 29	16 46	5 33	6 9	27 55	12 45	1 11	
S 11	14 7	14 10	1 41	9 40	3 31	20 49	0 9	19 2	1 0	19 28	0 23	18 40	0 30	20 3	0 33	19 32	0 20	10 29	16 46	5 33	6 8	27 54	12 46	1 11	
M 12	13 47	19 9	2 42	9 56	3 37	20 37	0 12	19 9	0 59	19 24	0 23	18 38	0 30	20 2	0 33	19 32	0 20	10 28	16 46	5 33	6 7	27 54	12 46	1 11	
T 13	13 27	23 12	3 34	10 16	3 41	20 24	0 15	19 17	0 59	19 21	0 23	18 37	0 30	20 1	0 33	19 33	0 20	10 27	16 45	5 34	6 6	27 53	12 47	1 11	
W 14	13 7	26 10	4 15	10 37	3 42	20 11	0 17	19 24	0 58	19 18	0 23	18 35	0 30	20 0	0 33	19 33	0 20	10 27	16 45	5 33	6 4	27 52	12 47	1 11	
T 15	12 47	27 56	4 45	11 0	3 41	19 57	0 20	19 31	0 58	19 15	0 23	18 33	0 30	20 0	0 33	19 33	0 20	10 26	16 45	5 32	6 3	27 52	12 48	1 11	
F 16	12 26	28 25	5 3	11 23	3 38	19 42	0 23	19 38	0 57	19 11	0 23	18 31	0 30	19 59	0 33	19 34	0 20	10 26	16 45	5 29	6 2	27 51	12 48	1 11	
S 17	12 5	27 35	5 7	11 47	3 33	19 27	0 25	19 45	0 56	19 8	0 23	18 30	0 30	19 58	0 33	19 34	0 20	10 25	16 44	5 27	6 1	27 50	12 49	1 11	
S 18	11 44	25 30	4 58	12 11	3 26	19 11	0 28	19 51	0 56	19 5	0 23	18 28	0 30	19 57	0 33	19 34	0 20	10 24	16 44	5 23	6 0	27 50	12 49	1 11	
M 19	11 23	22 16	4 36	12 33	3 17	18 54	0 30	19 58	0 55	19 2	0 24	18 26	0 30	19 57	0 33	19 35	0 20	10 24	16 44	5 20	5 58	27 49	12 50	1 11	
T 20	11 2	18 3	4 2	12 55	3 8	18 38	0 33	20 4	0 55	18 58	0 24	18 24	0 30	19 56	0 33	19 35	0 20	10 23	16 44	5 17	5 57	27 48	12 51	1 11	
W 21	10 40	13 3	3 16	13 16	2 57	18 20	0 35	20 11	0 54	18 55	0 24	18 23	0 31	19 55	0 33	19 35	0 20	10 22	16 43	5 14	5 56	27 48	12 51	1 11	
T 22	10 18	7 28	2 19	13 35	2 45	18 2	0 37	20 17	0 53	18 52	0 24	18 21	0 31	19 54	0 33	19 36	0 20	10 22	16 43	5 12	5 55	27 47	12 52	1 11	
F 23	9 56	1 31	1 15	13 52	2 32	17 44	0 40	20 23	0 53	18 48	0 24	18 19	0 31	19 54	0 33	19 36	0 20	10 21	16 43	5 11	5 53	27 46	12 53	1 11	
S 24	9 34	4n36	0 7	14 8	2 20	17 25	0 42	20 29	0 52	18 45	0 24	18 18	0 31	19 53	0 33	19 36	0 20	10 20	16 43	5 10	5 52	27 45	12 53	1 11	
S 25	9 12	10 37	1n 4	14 22	2 7	17 5	0 44	20 35	0 51	18 42	0 24	18 16	0 31	19 52	0 33	19 37	0 20	10 20	16 43	5 11	5 51	27 45	12 54	1 11	
M 26	8 50	16 17	2 12	14 34	1 53	16 45	0 46	20 41	0 51	18 39	0 24	18 14	0 31	19 52	0 33	19 37	0 20	10 19	16 42	5 11	5 50	27 44	12 55	1 11	
T 27	8 27	21 17	3 14	14 44	1 40	16 25	0 49	20 46	0 50	18 35	0 24	18 12	0 31	19 51	0 33	19 37	0 20	10 18	16 42	5 12	5 49	27 43	12 55	1 11	
W 28	8 5	25 13	4 7	14 52	1 27	16 4	0 51	20 52	0 49	18 32	0 25	18 11	0 31	19 50	0 33	19 38	0 20	10 18	16 42	5 12	5 47	27 42	12 56	1 11	
T 29	7s42	27n45	4n46	14s59	1n14	15s42	0s53	20s58	0n48	18s29	0s25	18s 9	0s31	19s50	0s33	19n38	0s20	10s17	16s42	5n12	5n46	27s41	12n57	1s11	

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

MARCH 2080

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	10 38 53	11♈19'07	3♊37	16♋0	21♌2	9♍16	8♎55	10♏26	3♐52	0♑R51	12♒55	13♓R 9	14♈35	15♉11	7♊43	F 1
S 2	10 42 50	12°19'20	18° 7	16°31	22°17	9°46	9° 8	10°32	3°55	0♒50	12°57	13♓ 6	14°32	15°18	7°46	S 2
S 3	10 46 46	13°19'31	2♊47	17° 6	23°32	10°16	9°21	10°39	3°58	0°49	12°58	13° 2	14°29	15°25	7°48	S 3
M 4	10 50 43	14°19'40	17°30	17°46	24°46	10°46	9°34	10°45	4° 1	0°48	12°59	12°57	14°26	15°31	7°51	M 4
T 5	10 54 39	15°19'47	2♋8	18°29	26° 1	11°15	9°47	10°51	4° 4	0°47	13° 1	12°53	14°22	15°38	7°53	T 5
W 6	10 58 36	16°19'52	16°36	19°16	27°15	11°44	10° 0	10°58	4° 7	0°46	13° 2	12°50	14°19	15°45	7°56	W 6
T 7	11 2 32	17°19'55	0♌47	20° 7	28°30	12°13	10°12	11° 4	4°10	0°45	13° 3	12°49	14°16	15°52	7°59	T 7
F 8	11 6 29	18°19'57	14°36	21° 1	29°44	12°42	10°25	11°10	4°12	0°43	13° 5	12°D48	14°13	15°58	8° 1	F 8
S 9	11 10 26	19°19'56	28° 1	21°57	0♍59	13°11	10°38	11°16	4°15	0°42	13° 6	12°49	14°10	16° 5	8° 4	S 9
S 10	11 14 22	20°19'54	11♎2	22°57	2°13	13°39	10°50	11°22	4°18	0°41	13° 7	12°50	14° 7	16°12	8° 7	S 10
M 11	11 18 19	21°19'51	23°42	23°59	3°28	14° 8	11° 3	11°28	4°21	0°41	13° 9	12°52	14° 3	16°18	8°10	M 11
T 12	11 22 15	22°19'45	6♌4	25° 4	4°42	14°36	11°15	11°34	4°23	0°40	13°10	12°53	14° 0	16°25	8°13	T 12
W 13	11 26 12	23°19'38	18°11	26°11	5°57	15° 4	11°27	11°40	4°26	0°39	13°11	12°R54	13°57	16°32	8°15	W 13
T 14	11 30 8	24°19'30	0♎9	27°20	7°11	15°32	11°39	11°46	4°29	0°38	13°13	12°54	13°54	16°39	8°18	T 14
F 15	11 34 5	25°19'20	12° 2	28°31	8°26	15°59	11°52	11°52	4°31	0°37	13°14	12°53	13°51	16°45	8°21	F 15
S 16	11 38 1	26°19'08	23°54	29°44	9°40	16°27	12° 4	11°58	4°34	0°36	13°15	12°51	13°47	16°52	8°24	S 16
S 17	11 41 58	27°18'54	5♎50	0♍59	10°55	16°54	12°16	12° 4	4°36	0°35	13°17	12°49	13°44	16°59	8°27	S 17
M 18	11 45 55	28°18'38	17°55	2°16	12° 9	17°21	12°28	12° 9	4°38	0°35	13°18	12°47	13°41	17° 6	8°31	M 18
T 19	11 49 51	29°18'21	0♋9	3°35	13°24	17°47	12°40	12°15	4°41	0°34	13°20	12°45	13°38	17°12	8°34	T 19
W 20	11 53 48	0♌18'01	12°36	4°56	14°38	18°14	12°51	12°20	4°43	0°33	13°21	12°43	13°35	17°19	8°37	W 20
T 21	11 57 44	1°17'40	25°18	6°17	15°52	18°40	13° 3	12°26	4°46	0°33	13°23	12°42	13°32	17°26	8°40	T 21
F 22	12 1 41	2°17'17	8♌14	7°41	17° 7	19° 6	13°15	12°31	4°48	0°32	13°24	12°D41	13°28	17°32	8°43	F 22
S 23	12 5 37	3°16'52	21°24	9° 6	18°21	19°32	13°26	12°37	4°50	0°31	13°25	12°42	13°25	17°39	8°46	S 23
S 24	12 9 34	4°16'24	4♎48	10°33	19°36	19°57	13°38	12°42	4°52	0°31	13°27	12°42	13°22	17°46	8°50	S 24
M 25	12 13 30	5°15'55	18°24	12° 1	20°50	20°22	13°49	12°47	4°54	0°30	13°28	12°43	13°19	17°53	8°53	M 25
T 26	12 17 27	6°15'23	2♊12	13°30	22° 5	20°47	14° 0	12°53	4°57	0°30	13°30	12°43	13°16	17°59	8°56	T 26
W 27	12 21 24	7°14'49	16° 9	15° 1	23°19	21°12	14°11	12°58	4°59	0°29	13°31	12°44	13°12	18° 6	9° 0	W 27
T 28	12 25 20	8°14'13	0♎15	16°34	24°33	21°36	14°22	13° 3	5° 1	0°29	13°33	12°44	13° 9	18°13	9° 3	T 28
F 29	12 29 17	9°13'34	14°26	18° 8	25°48	22° 0	14°33	13° 8	5° 3	0°28	13°34	12°R44	13° 6	18°20	9° 7	F 29
S 30	12 33 13	10°12'53	28°42	19°43	27° 2	22°24	14°44	13°13	5° 5	0°28	13°36	12°44	13° 3	18°26	9°10	S 30
S 31	12 37 10	11♌12'10	12♊58	21♋19	28♌16	22♍47	14♎55	13♏18	5♐7	0♑28	13♒37	12♓44	13♓ 0	18♉33	9♊13	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	7s19	28n31	5n 8	15s 4	1n 1	15s21	0s55	21s 3	0n48	18s25	0s25	18s 7	0s31	19s49
S 2	6 56	27 20	5 11	15 7	0 49	14 58	0 57	21 8	0 47	18 22	0 25	18 6	0 31	19 48
S 3	6 33	24 18	4 54	15 8	0 36	14 36	0 59	21 13	0 46	18 19	0 25	18 4	0 32	19 47
M 4	6 10	19 40	4 18	15 7	0 24	14 13	1 1	21 18	0 45	18 15	0 25	18 2	0 32	19 47
T 5	5 47	13 53	3 24	15 5	0 13	13 49	1 2	21 23	0 44	18 12	0 25	18 1	0 32	19 46
W 6	5 24	7 25	2 19	15 1	0 1	13 26	1 4	21 28	0 44	18 9	0 26	17 59	0 32	19 46
T 7	5 0	0 42	1 6	14 55	0s10	13 1	1 6	21 33	0 43	18 5	0 26	17 58	0 32	19 45
F 8	4 37	5s54	0s10	14 48	0 20	12 37	1 7	21 37	0 42	18 2	0 26	17 56	0 32	19 44
S 9	4 13	12 3	1 23	14 40	0 30	12 12	1 9	21 42	0 41	17 59	0 26	17 54	0 32	19 44
S 10	3 50	17 30	2 29	14 29	0 40	11 47	1 11	21 46	0 40	17 56	0 26	17 53	0 32	19 43
M 11	3 26	22 1	3 26	14 18	0 49	11 21	1 12	21 51	0 39	17 52	0 26	17 51	0 32	19 42
T 12	3 3	25 27	4 13	14 4	0 58	10 55	1 14	21 55	0 38	17 49	0 26	17 50	0 32	19 42
W 13	2 39	27 40	4 46	13 50	1 6	10 29	1 15	21 59	0 37	17 46	0 26	17 48	0 33	19 41
T 14	2 15	28 33	5 7	13 33	1 14	10 3	1 16	22 3	0 36	17 43	0 27	17 47	0 33	19 41
F 15	1 52	28 7	5 15	13 16	1 22	9 36	1 17	22 7	0 35	17 39	0 27	17 45	0 33	19 40
S 16	1 28	26 24	5 9	12 57	1 29	9 9	1 19	22 11	0 34	17 36	0 27	17 43	0 33	19 39
S 17	1 4	23 29	4 50	12 37	1 36	8 42	1 20	22 14	0 33	17 33	0 27	17 42	0 33	19 39
M 18	0 40	19 33	4 18	12 15	1 42	8 15	1 21	22 18	0 32	17 30	0 27	17 40	0 33	19 38
T 19	0 17	14 45	3 34	11 52	1 48	7 47	1 22	22 22	0 31	17 26	0 27	17 39	0 33	19 38
W 20	0n 7	9 16	2 39	11 27	1 53	7 19	1 23	22 25	0 30	17 23	0 27	17 38	0 33	19 37
T 21	0 31	3 19	1 35	11 2	1 58	6 51	1 23	22 29	0 28	17 20	0 28	17 36	0 33	19 37
F 22	0 55	2n53	0 25	10 35	2 3	6 23	1 24	22 32	0 27	17 17	0 28	17 35	0 34	19 36
S 23	1 18	9 5	0n48	10 7	2 7	5 54	1 25	22 35	0 26	17 14	0 28	17 33	0 34	19 36
S 24	1 42	14 59	1 59	9 37	2 10	5 26	1 26	22 38	0 25	17 11	0 28	17 32	0 34	19 35
M 25	2 5	20 16	3 5	9 7	2 14	4 57	1 26	22 42	0 23	17 8	0 28	17 30	0 34	19 35
T 26	2 29	24 32	4 1	8 35	2 16	4 28	1 27	22 45	0 22	17 4	0 28	17 29	0 34	19 34
W 27	2 53	27 25	4 43	8 2	2 19	3 59	1 27	22 48	0 21	17 1	0 29	17 28	0 34	19 34
T 28	3 16	28 35	5 9	7 28	2 21	3 30	1 28	22 51	0 19	16 58	0 29	17 26	0 34	19 33
F 29	3 39	27 54	5 17	6 52	2 22	3 1	1 28	22 53	0 18	16 55	0 29	17 25	0 34	19 33
S 30	4 3	25 23	5 5	6 16	2 23	2 32	1 28	22 56	0 17	16 52	0 29	17 24	0 34	19 32
S 31	4n26	21n17	4n34	5s38	2s23	2s 2	1s28	22s59	0n15	16s49	0s29	17s23	0s35	19s32

Julian Day Number = 2480824.5, Delta T = 84.77 sec  
Ecliptic obliquity = 23°25'53, Nutation = - 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°51'37, Lahiri = 24°58'37

# ASTRODIENST EPHEMERIS for the year 2080

## geocentric

APRIL 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 41 6	12°11'24	27°01'13	22°57'57	29°31'31	23°10'10	15°56'06	13°23'23	5°58'08	0°27'27	13°38'38	12°44'44	12°57'57	18°40'40	9°17'17	M 1
T 2	12 45 3	13°10'36	11°02'22	24°37'37	0°45'45	23°33'33	15°16'16	13°27'27	5°10'10	0°02'27	13°40'40	12°44'44	12°53'53	18°46'46	9°20'20	T 2
W 3	12 48 59	14° 9'45	25°22'22	26°18'18	1°59'59	23°56'56	15°27'27	13°32'32	5°12'12	0°27'27	13°41'41	12°44'44	12°50'50	18°53'53	9°24'24	W 3
T 4	12 52 56	15° 8'53	9°52'09	28° 0'00	3°14'14	24°18'18	15°37'37	13°37'37	5°14'14	0°27'27	13°43'43	12°44'44	12°47'47	19° 0'00	9°28'28	T 4
F 5	12 56 53	16° 7'58	22°40'40	29°43'43	4°28'28	24°40'40	15°47'47	13°41'41	5°16'16	0°26'26	13°44'44	12°44'44	12°44'44	19° 7'07	9°31'31	F 5
S 6	13 0 49	17° 7'02	5°18'55	1°29'29	5°42'42	25° 1'01	15°57'57	13°46'46	5°17'17	0°26'26	13°46'46	12°44'44	12°41'41	19°13'13	9°35'35	S 6
S 7	13 4 46	18° 6'03	18°51'51	3°15'15	6°57'57	25°23'23	16° 7'07	13°50'50	5°19'19	0°26'26	13°47'47	12°43'43	12°38'38	19°20'20	9°38'38	S 7
M 8	13 8 42	19° 5'03	1°29'29	5° 3'03	8°11'11	25°43'43	16°17'17	13°54'54	5°20'20	0°26'26	13°49'49	12°42'42	12°34'34	19°27'27	9°42'42	M 8
T 9	13 12 39	20° 4'01	13°51'51	6°53'53	9°25'25	26° 4'04	16°27'27	13°58'58	5°22'22	0°26'26	13°50'50	12°41'41	12°31'31	19°33'33	9°46'46	T 9
W10	13 16 35	21° 2'57	26° 1'01	8°43'43	10°39'39	26°24'24	16°37'37	14° 3'03	5°23'23	0°26'26	13°51'51	12°40'40	12°28'28	19°40'40	9°49'49	W10
T11	13 20 32	22° 1'52	8°30'30	10°36'36	11°54'54	26°44'44	16°46'46	14° 7'07	5°25'25	0°26'26	13°53'53	12°40'40	12°25'25	19°47'47	9°53'53	T11
F12	13 24 28	23° 0'44	19°54'54	12°30'30	13° 8'08	27° 3'03	16°56'56	14°11'11	5°26'26	0°26'26	13°54'54	12°40'40	12°22'22	19°54'54	9°57'57	F12
S13	13 28 25	23°59'35	1°47'47	14°25'25	14°22'22	27°22'22	17° 5'05	14°15'15	5°27'27	0°26'26	13°56'56	12°40'40	12°18'18	20° 0'00	10° 0'00	S13
S14	13 32 22	24°58'24	13°44'44	16°22'22	15°36'36	27°40'40	17°15'15	14°18'18	5°29'29	0°26'26	13°57'57	12°40'40	12°15'15	20° 7'07	10° 4'04	S14
M15	13 36 18	25°57'12	25°50'50	18°20'20	16°50'50	27°58'58	17°24'24	14°22'22	5°30'30	0°26'26	13°59'59	12°41'41	12°12'12	20°14'14	10° 8'08	M15
T16	13 40 15	26°55'57	8°38'38	20°20'20	18° 5'05	28°16'16	17°33'33	14°26'26	5°31'31	0°27'27	14° 0'00	12°42'42	12° 9'09	20°21'21	10°12'12	T16
W17	13 44 11	27°54'41	20°42'42	22°21'21	19°19'19	28°33'33	17°42'42	14°29'29	5°32'32	0°27'27	14° 2'02	12°44'44	12° 6'06	20°27'27	10°15'15	W17
T18	13 48 8	28°53'23	3°39'39	24°24'24	20°33'33	28°50'50	17°50'50	14°33'33	5°33'33	0°27'27	14° 3'03	12°44'44	12° 3'03	20°34'34	10°19'19	T18
F19	13 52 4	29°52'03	16°46'46	26°27'27	21°47'47	29° 6'06	17°59'59	14°36'36	5°34'34	0°27'27	14° 4'04	12°44'44	11°59'59	20°41'41	10°23'23	F19
S20	13 56 1	0°35'04	0°38'18	28°32'32	23° 1'01	29°22'22	18° 7'07	14°40'40	5°35'35	0°28'28	14° 6'06	12°44'44	11°56'56	20°47'47	10°27'27	S20
S21	13 59 57	1°49'18	14° 8'08	0°38'38	24°15'15	29°37'37	18°16'16	14°43'43	5°36'36	0°28'28	14° 7'07	12°42'42	11°53'53	20°54'54	10°30'30	S21
M22	14 3 54	2°47'52	28°13'13	2°45'45	25°29'29	29°52'52	18°24'24	14°46'46	5°37'37	0°28'28	14° 9'09	12°40'40	11°50'50	21° 1'01	10°34'34	M22
T23	14 7 51	3°46'25	12°12'12	4°52'52	26°44'44	0°30'30	18°32'32	14°49'49	5°38'38	0°29'29	14°10'10	12°37'37	11°47'47	21° 8'08	10°38'38	T23
W24	14 11 47	4°44'55	26°49'49	7° 0'00	27°58'58	0°20'20	18°40'40	14°52'52	5°39'39	0°29'29	14°11'11	12°34'34	11°44'44	21°14'14	10°42'42	W24
T25	14 15 44	5°43'23	11°03'03	9° 9'09	29°12'12	0°33'33	18°48'48	14°55'55	5°40'40	0°30'30	14°13'13	12°32'32	11°40'40	21°21'21	10°46'46	T25
F26	14 19 40	6°41'49	25°30'30	11°17'17	0°26'26	0°46'46	18°55'55	14°58'58	5°40'40	0°30'30	14°14'14	12°30'30	11°37'37	21°28'28	10°50'50	F26
S27	14 23 37	7°40'13	9°04'43	13°25'25	1°40'40	0°58'58	19° 3'03	15° 0'00	5°41'41	0°31'31	14°15'15	12°30'30	11°34'34	21°34'34	10°53'53	S27
S28	14 27 33	8°38'35	23°47'47	15°33'33	2°54'54	1° 9'09	19°10'10	15° 3'03	5°41'41	0°31'31	14°17'17	12°31'31	11°31'31	21°41'41	10°57'57	S28
M29	14 31 30	9°36'55	7°04'41	17°40'40	4° 8'08	1°20'20	19°17'17	15° 6'06	5°42'42	0°32'32	14°18'18	12°32'32	11°28'28	21°48'48	11° 1'01	M29
T30	14 35 26	10°35'12	21°02'25	19°04'46	5°22'22	1°30'30	19°25'25	15°58'58	5°42'42	0°33'33	14°19'19	12°33'33	11°24'24	21°55'55	11° 5'05	T30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	4n49	15n59	3n46	4s59	2s23	1s33	1s28	23s 2	0n14	16s46	0s29	17s21	0s35	19s31	0s34	19n44
T 2	5 12	9 51	2 45	4 19	2 23	1 3	1 28	23 4	0 12	16 43	0 30	17 20	0 35	19 31	0 34	19 44
W 3	5 35	3 18	1 35	3 38	2 22	0 34	1 28	23 7	0 11	16 40	0 30	17 19	0 35	19 31	0 34	19 44
T 4	5 58	3s19	0 20	2 56	2 20	0 4	1 28	23 10	0 9	16 38	0 30	17 18	0 35	19 30	0 34	19 44
F 5	6 21	9 40	0s55	2 13	2 18	0n25	1 28	23 12	0 7	16 35	0 30	17 16	0 35	19 30	0 34	19 44
S 6	6 43	15 27	2 5	1 29	2 16	0 55	1 28	23 15	0 6	16 32	0 30	17 15	0 35	19 29	0 34	19 44
S 7	7 6	20 25	3 7	0 44	2 13	1 25	1 28	23 17	0 4	16 29	0 30	17 14	0 35	19 29	0 34	19 44
M 8	7 28	24 20	3 58	0n 2	2 9	1 54	1 27	23 19	0 2	16 26	0 31	17 13	0 36	19 29	0 34	19 44
T 9	7 51	27 3	4 37	0 49	2 5	2 24	1 27	23 22	0 1	16 23	0 31	17 12	0 36	19 28	0 34	19 44
W10	8 13	28 25	5 3	1 36	2 1	2 53	1 27	23 24	0s 1	16 21	0 31	17 11	0 36	19 28	0 34	19 44
T11	8 35	28 26	5 15	2 25	1 56	3 23	1 26	23 26	0 3	16 18	0 31	17 10	0 36	19 28	0 34	19 44
F12	8 57	27 8	5 14	3 15	1 50	3 52	1 26	23 29	0 5	16 15	0 31	17 9	0 36	19 28	0 34	19 44
S13	9 18	24 36	4 59	4 5	1 44	4 21	1 25	23 31	0 7	16 13	0 31	17 8	0 36	19 27	0 34	19 44
S14	9 40	21 1	4 31	4 56	1 38	4 51	1 24	23 33	0 9	16 10	0 32	17 7	0 36	19 27	0 34	19 44
M15	10 1	16 32	3 51	5 47	1 31	5 20	1 23	23 36	0 11	16 7	0 32	17 6	0 36	19 27	0 34	19 44
T16	10 23	11 18	3 0	6 39	1 23	5 49	1 23	23 38	0 13	16 5	0 32	17 5	0 37	19 26	0 34	19 44
W17	10 44	5 30	1 59	7 32	1 15	6 18	1 22	23 40	0 15	16 2	0 32	17 4	0 37	19 26	0 34	19 44
T18	11 5	0n39	0 50	8 25	1 7	6 47	1 21	23 42	0 17	16 0	0 32	17 3	0 37	19 26	0 34	19 44
F19	11 25	6 56	0n22	9 18	0 58	7 15	1 20	23 45	0 19	15 57	0 33	17 2	0 37	19 26	0 35	19 44
S20	11 46	13 4	1 35	10 11	0 49	7 44	1 19	23 47	0 21	15 55	0 33	17 1	0 37	19 26	0 35	19 44
S21	12 6	18 42	2 44	11 4	0 39	8 12	1 18	23 49	0 23	15 52	0 33	17 1	0 37	19 25	0 35	19 44
M22	12 26	23 24	3 45	11 58	0 30	8 40	1 16	23 52	0 26	15 50	0 33	17 0	0 37	19 25	0 35	19 44
T23	12 46	26 46	4 32	12 50	0 19	9 8	1 15	23 54	0 28	15 48	0 33	16 59	0 38	19 25	0 35	19 44
W24	13 6	28 26	5 2	13 42	0 9	9 36	1 14	23 56	0 30	15 46	0 34	16 58	0 38	19 25	0 35	19 44
T25	13 26	28 10	5 14	14 34	0n 2	10 3	1 12	23 59	0 33	15 43	0 34	16 57	0 38	19 25	0 35	19 44
F26	13 45	26 3	5 6	15 24	0 12	10 31	1 11	24 1	0 35	15 41	0 34	16 57	0 38	19 25	0 35	19 44
S27	14 4	22 18	4 39	16 14	0 23	10 58	1 10	24 4	0 38	15 39	0 34	16 56	0 38	19 24	0 35	19 44
S28	14 23	17 18	3 56	17 2	0 34	11 24	1 8	24 6	0 40	15 37	0 34	16 55	0 38	19 24	0 35	19 44
M29	14 41	11 28	3 0	17 48	0 44	11 51	1 7	24 9	0 43	15 35	0 35	16 55	0 38	19 24	0 35	19 43
T30	15n 0	5n 8	1n53	18n33	0n55	12n17	1s 5	24s11	0s46	15s33	0s35	16s54	0s39	19s24	0s35	19n43

Julian Day Number = 2480855.5, Delta T = 84.80 sec  
 Ecliptic obliquity = 23°25'53, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°51'41, Lahiri = 24°58'42

# ASTRODIENST EPHEMERIS for the year 2080

## geocentric

MAY 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 39 23	11°33'27	4°58	21°50	6°36	1°40	19°31	15°10	5°43	0°23	14°21	12°34	11°21	22°28	11°8	W 1
T 2	14 43 20	12°31'41	18°19	23°53	7°50	1°49	19°38	15°13	5°43	0°34	14°22	12°R35	11°18	22°8	11°13	T 2
F 3	14 47 16	13°29'53	1°27	25°53	9°4	1°58	19°45	15°15	5°44	0°35	14°23	12°33	11°15	22°15	11°16	F 3
S 4	14 51 13	14°28'02	14°23	27°52	10°18	2°6	19°51	15°17	5°44	0°36	14°25	12°30	11°12	22°22	11°20	S 4
S 5	14 55 9	15°26'11	27°5	29°48	11°32	2°13	19°58	15°19	5°44	0°36	14°26	12°26	11°9	22°28	11°24	S 5
M 6	14 59 6	16°24'17	9°35	1°41	12°46	2°20	20°4	15°21	5°44	0°37	14°27	12°20	11°5	22°35	11°28	M 6
T 7	15 3 2	17°22'22	21°52	3°31	14°0	2°26	20°10	15°23	5°45	0°38	14°28	12°14	11°2	22°42	11°32	T 7
W 8	15 6 59	18°20'26	3°59	5°18	15°14	2°31	20°16	15°24	5°45	0°39	14°30	12°8	10°59	22°48	11°36	W 8
T 9	15 10 15	19°18'28	15°57	7°2	16°28	2°36	20°21	15°26	5°R45	0°40	14°31	12°3	10°56	22°55	11°39	T 9
F 10	15 14 52	20°16'28	27°51	8°42	17°42	2°40	20°27	15°27	5°45	0°41	14°32	11°59	10°53	23°2	11°43	F 10
S 11	15 18 49	21°14'28	9°44	10°20	18°56	2°43	20°32	15°29	5°45	0°42	14°33	11°56	10°50	23°9	11°47	S 11
S 12	15 22 45	22°12'26	21°39	11°53	20°9	2°46	20°38	15°30	5°44	0°43	14°35	11°D56	10°46	23°15	11°51	S 12
M13	15 26 42	23°10'22	3°43	13°23	21°23	2°47	20°43	15°31	5°44	0°44	14°36	11°56	10°43	23°22	11°55	M13
T 14	15 30 38	24°8'17	16°1	14°49	22°37	2°48	20°47	15°32	5°44	0°45	14°37	11°57	10°40	23°29	11°58	T 14
W15	15 34 35	25°6'11	28°35	16°11	23°51	2°R49	20°52	15°33	5°44	0°46	14°38	11°59	10°37	23°35	12°2	W15
T 16	15 38 31	26°4'04	11°32	17°30	25°5	2°48	20°57	15°34	5°44	0°47	14°39	12°R0	10°34	23°42	12°6	T 16
F 17	15 42 28	27°1'55	24°53	18°45	26°19	2°47	21°1	15°35	5°43	0°48	14°40	11°59	10°30	23°49	12°10	F 17
S 18	15 46 24	27°59'46	8°39	19°55	27°33	2°45	21°5	15°36	5°43	0°50	14°42	11°56	10°27	23°56	12°13	S 18
S 19	15 50 21	28°57'35	22°49	21°2	28°47	2°43	21°9	15°36	5°42	0°51	14°43	11°51	10°24	24°2	12°17	S 19
M20	15 54 18	29°55'22	7°18	22°5	0°II0	2°39	21°13	15°37	5°42	0°52	14°44	11°45	10°21	24°9	12°21	M20
T 21	15 58 14	0°II53'09	22°1	23°3	1°14	2°35	21°17	15°37	5°41	0°53	14°45	11°38	10°18	24°16	12°25	T 21
W22	16 2 11	1°50'54	6°49	23°58	2°28	2°30	21°20	15°38	5°41	0°55	14°46	11°30	10°15	24°22	12°28	W22
T 23	16 6 7	2°48'37	21°34	24°48	3°42	2°24	21°23	15°38	5°40	0°56	14°47	11°23	10°11	24°29	12°32	T 23
F 24	16 10 4	3°46'19	6°0	25°34	4°56	2°18	21°27	15°38	5°39	0°57	14°48	11°19	10°8	24°36	12°36	F 24
S 25	16 14 0	4°43'59	20°31	26°15	6°10	2°10	21°29	15°R38	5°39	0°59	14°49	11°16	10°5	24°43	12°39	S 25
S 26	16 17 57	5°41'37	4°34	26°53	7°23	2°2	21°32	15°38	5°38	1°0	14°50	11°D15	10°2	24°49	12°43	S 26
M27	16 21 53	6°39'14	18°20	27°25	8°37	1°54	21°35	15°38	5°37	1°2	14°51	11°15	9°59	24°56	12°47	M27
T 28	16 25 50	7°36'50	1°49	27°53	9°51	1°44	21°37	15°38	5°36	1°3	14°52	11°16	9°56	25°3	12°50	T 28
W29	16 29 47	8°34'24	15°3	28°16	11°5	1°34	21°39	15°37	5°35	1°5	14°53	11°R16	9°52	25°10	12°54	W29
T 30	16 33 43	9°31'56	28°2	28°35	12°18	1°23	21°41	15°37	5°34	1°6	14°54	11°15	9°49	25°16	12°57	T 30
F 31	16 37 40	10°II29'28	10°50	28°II49	13°II32	1°12	21°43	15°36	5°33	1°8	14°55	11°Y11	9°Y46	25°23	13°1	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n18	1s20	0n42	19n16	1n5	12n43	1s3	24s14	0s48	15s31	0s35	16s54	0s39	19s24	0s35	19n43
T 2	15 36	7 40	0s31	19 57	1 15	13 9	1 2	24 16	0 51	15 29	0 35	16 53	0 39	19 24	0 35	19 43
F 3	15 53	13 33	1 41	20 35	1 24	13 34	1 0	24 19	0 54	15 27	0 35	16 53	0 39	19 24	0 35	19 43
S 4	16 10	18 46	2 45	21 11	1 33	13 59	0 58	24 22	0 57	15 25	0 36	16 52	0 39	19 24	0 35	19 43
S 5	16 27	23 3	3 39	21 45	1 42	14 24	0 56	24 25	1 0	15 23	0 36	16 52	0 39	19 24	0 35	19 43
M 6	16 44	26 11	4 21	22 16	1 49	14 48	0 55	24 27	1 3	15 22	0 36	16 51	0 39	19 24	0 35	19 43
T 7	17 1	28 1	4 51	22 45	1 56	15 12	0 53	24 30	1 6	15 20	0 36	16 51	0 40	19 24	0 35	19 42
W 8	17 17	28 29	5 7	23 12	2 3	15 35	0 51	24 33	1 9	15 18	0 37	16 51	0 40	19 24	0 35	19 42
T 9	17 33	27 36	5 10	23 35	2 9	15 58	0 49	24 36	1 12	15 17	0 37	16 50	0 40	19 24	0 35	19 42
F 10	17 49	25 27	4 59	23 57	2 13	16 21	0 47	24 40	1 15	15 15	0 37	16 50	0 40	19 24	0 35	19 42
S 11	18 4	22 13	4 35	24 15	2 18	16 44	0 45	24 43	1 18	15 14	0 37	16 50	0 40	19 24	0 35	19 42
S 12	18 19	18 3	3 59	24 32	2 21	17 5	0 43	24 46	1 22	15 12	0 37	16 49	0 40	19 24	0 35	19 41
M13	18 34	13 8	3 12	24 46	2 23	17 27	0 41	24 49	1 25	15 11	0 38	16 49	0 40	19 24	0 35	19 41
T 14	18 48	7 36	2 16	24 58	2 25	17 48	0 38	24 53	1 28	15 9	0 38	16 49	0 41	19 24	0 35	19 41
W15	19 2	1 40	1 12	25 8	2 25	18 9	0 36	24 56	1 32	15 8	0 38	16 49	0 41	19 24	0 35	19 41
T 16	19 16	4n31	0 2	25 15	2 25	18 29	0 34	24 59	1 35	15 7	0 38	16 49	0 41	19 24	0 35	19 41
F 17	19 29	10 42	1n 9	25 21	2 24	18 48	0 32	25 3	1 39	15 6	0 39	16 49	0 41	19 25	0 36	19 40
S 18	19 42	16 34	2 19	25 25	2 22	19 7	0 30	25 7	1 42	15 5	0 39	16 49	0 41	19 25	0 36	19 40
S 19	19 55	21 43	3 22	25 26	2 19	19 26	0 27	25 10	1 46	15 4	0 39	16 49	0 41	19 25	0 36	19 40
M20	20 8	25 41	4 13	25 27	2 15	19 44	0 25	25 14	1 50	15 3	0 39	16 48	0 41	19 25	0 36	19 40
T 21	20 20	28 0	4 49	25 25	2 10	20 2	0 23	25 18	1 53	15 2	0 39	16 49	0 42	19 25	0 36	19 39
W22	20 31	28 20	5 5	25 22	2 4	20 19	0 21	25 21	1 57	15 1	0 40	16 49	0 42	19 25	0 36	19 39
T 23	20 43	26 40	5 2	25 17	1 58	20 35	0 18	25 25	2 1	15 0	0 40	16 49	0 42	19 25	0 36	19 39
F 24	20 54	23 13	4 38	25 11	1 50	20 51	0 16	25 29	2 5	14 59	0 40	16 49	0 42	19 26	0 36	19 39
S 25	21 5	18 24	3 58	25 4	1 41	21 6	0 14	25 33	2 8	14 58	0 40	16 49	0 42	19 26	0 36	19 38
S 26	21 15	12 41	3 4	24 55	1 32	21 21	0 11	25 37	2 12	14 58	0 41	16 49	0 42	19 26	0 36	19 38
M27	21 25	6 27	2 0	24 46	1 21	21 35	0 9	25 41	2 16	14 57	0 41	16 49	0 42	19 26	0 36	19 38
T 28	21 34	0 3	0 50	24 35	1 10	21 49	0 7	25 45	2 20	14 57	0 41	16 49	0 43	19 27	0 36	19 37
W29	21 44	6s14	0s20	24 23	0 58	22 2	0 4	25 49	2 24	14 56	0 41	16 50	0 43	19 27	0 36	19 37
T 30	21 52	12 9	1 28	24 10	0 45	22 14	0 2	25 53	2 28	14 56	0 42	16 50	0 43	19 27	0 36	19 37
F 31	22n 1	17s28	2s31	23n57	0n31	22n26	0n 1	25s57	2s32	14s55	0s42	16s50	0s43	19s27	0s36	19n36

Julian Day Number = 2480885.5, Delta T = 84.83 sec  
 Ecliptic obliquity = 23°25'53, Nutation = - 0°00'04, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°51'45, Lahiri = 24°58'46



ASTRODIENST EPHEMERIS for the year 2080  
geocentric

JUNE 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 41 36	11♐26'58	23♐26	28♐58	14♐46	1°R 0	21♐45	15°R36	5°R32	1♐ 9	14♐56	11°R 5	9♐43	25♐30	13♐ 4	S 1
S 2	16 45 33	12°24'27	5♐53	29° 3	16° 0	0♐47	21°46	15♐35	5♐31	1°11	14°56	10♐57	9°40	25°36	13° 8	S 2
M 3	16 49 29	13°21'55	18°10	29°R 3	17°13	0°33	21°47	15°34	5°30	1°12	14°57	10°46	9°36	25°43	13°11	M 3
T 4	16 53 26	14°19'22	0♐19	28°58	18°27	0°19	21°49	15°33	5°29	1°14	14°58	10°35	9°33	25°50	13°15	T 4
W 5	16 57 22	15°16'48	12°21	28°49	19°41	0° 5	21°49	15°32	5°28	1°16	14°59	10°23	9°30	25°57	13°18	W 5
T 6	17 1 19	16°14'14	24°16	28°36	20°55	29♐49	21°50	15°31	5°26	1°17	15° 0	10°13	9°27	26° 3	13°21	T 6
F 7	17 5 16	17°11'38	6♐ 8	28°19	22° 8	29°34	21°51	15°30	5°25	1°19	15° 1	10° 4	9°24	26°10	13°25	F 7
S 8	17 9 12	18° 9'02	17°59	27°59	23°22	29°17	21°51	15°29	5°24	1°21	15° 1	9°57	9°21	26°17	13°28	S 8
S 9	17 13 9	19° 6'25	29°54	27°35	24°36	29° 1	21°R51	15°27	5°22	1°22	15° 2	9°53	9°17	26°23	13°31	S 9
M10	17 17 5	20° 3'48	11♐56	27° 8	25°49	28°44	21°51	15°26	5°21	1°24	15° 3	9°52	9°14	26°30	13°35	M10
T 11	17 21 2	21° 1'10	24°10	26°39	27° 3	28°26	21°51	15°24	5°19	1°26	15° 4	9°D51	9°11	26°37	13°38	T 11
W12	17 24 58	21°58'31	6♐43	26° 8	28°17	28° 8	21°50	15°22	5°18	1°28	15° 4	9°R52	9° 8	26°44	13°41	W12
T 13	17 28 55	22°55'52	19°37	25°35	29°31	27°50	21°49	15°21	5°16	1°30	15° 5	9°51	9° 5	26°50	13°44	T 13
F 14	17 32 51	23°53'13	2♐59	25° 2	0♐44	27°31	21°49	15°19	5°15	1°31	15° 6	9°50	9° 2	26°57	13°47	F 14
S 15	17 36 48	24°50'33	16°49	24°28	1°58	27°12	21°48	15°17	5°13	1°33	15° 6	9°45	8°58	27° 4	13°51	S 15
S 16	17 40 45	25°47'53	1♐ 7	23°54	3°12	26°53	21°46	15°15	5°12	1°35	15° 7	9°39	8°55	27°10	13°54	S 16
M17	17 44 41	26°45'12	15°50	23°22	4°25	26°34	21°45	15°13	5°10	1°37	15° 7	9°30	8°52	27°17	13°57	M17
T 18	17 48 38	27°42'31	0♐50	22°50	5°39	26°15	21°43	15°10	5° 8	1°39	15° 8	9°19	8°49	27°24	14° 0	T 18
W19	17 52 34	28°39'50	15°59	22°21	6°53	25°55	21°41	15° 8	5° 6	1°41	15° 9	9° 9	8°46	27°31	14° 3	W19
T 20	17 56 31	29°37'07	1♐ 5	21°54	8° 6	25°36	21°39	15° 6	5° 5	1°43	15° 9	8°59	8°42	27°37	14° 6	T 20
F 21	18 0 27	0♐34'25	16° 0	21°30	9°20	25°16	21°37	15° 3	5° 3	1°45	15°10	8°52	8°39	27°44	14° 9	F 21
S 22	18 4 24	1°31'41	0♐36	21° 9	10°34	24°57	21°35	15° 1	5° 1	1°47	15°10	8°47	8°36	27°51	14°12	S 22
S 23	18 8 21	2°28'56	14°48	20°52	11°47	24°38	21°32	14°58	4°59	1°49	15°11	8°44	8°33	27°57	14°14	S 23
M24	18 12 17	3°26'11	28°36	20°38	13° 1	24°19	21°30	14°56	4°57	1°51	15°11	8°43	8°30	28° 4	14°17	M24
T 25	18 16 14	4°23'25	12♐ 2	20°29	14°15	24° 0	21°27	14°53	4°55	1°53	15°12	8°43	8°27	28°11	14°20	T 25
W26	18 20 10	5°20'39	25° 6	20°25	15°28	23°42	21°24	14°50	4°53	1°55	15°12	8°43	8°23	28°18	14°23	W26
T 27	18 24 7	6°17'52	7♐54	20°D25	16°42	23°24	21°20	14°47	4°51	1°57	15°12	8°41	8°20	28°24	14°25	T 27
F 28	18 28 3	7°15'04	20°27	20°29	17°56	23° 6	21°17	14°44	4°49	1°59	15°13	8°36	8°17	28°31	14°28	F 28
S 29	18 32 0	8°12'16	2♐50	20°39	19° 9	22°49	21°13	14°41	4°47	2° 1	15°13	8°28	8°14	28°38	14°31	S 29
S 30	18 35 56	9°09'28	15♐ 3	20♐53	20°23	22♐32	21° 9	14°38	4°45	2° 3	15°13	8°18	8°11	28°44	14°33	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
S 1	22n 9	21s56	3s25	23n42	0n17	22n37	0n 3	26s 1	2s36	14s55	0s42	16s51	0s43	19s28	0s36	19n36	0s18	9s37	16s48	4n23	3n51	25s54	14n32	1s17			
S 2	22 16	25 21	4 8	23 27	0 1	22 47	0 5	26 5	2 40	14 55	0 42	16 51	0 43	19 28	0 36	19 36	0 18	9 37	16 48	4 20	3 50	25 52	14 33	1 17			
M 3	22 24	27 33	4 40	23 11	0s14	22 57	0 8	26 9	2 43	14 55	0 43	16 51	0 43	19 28	0 36	19 35	0 18	9 37	16 49	4 16	3 48	25 51	14 34	1 17			
T 4	22 31	28 23	4 58	22 55	0 31	23 6	0 10	26 13	2 47	14 55	0 43	16 52	0 44	19 29	0 36	19 35	0 18	9 37	16 49	4 11	3 47	25 49	14 35	1 17			
W 5	22 37	27 52	5 2	22 38	0 47	23 14	0 13	26 17	2 51	14 54	0 43	16 52	0 44	19 29	0 36	19 35	0 18	9 37	16 49	4 7	3 46	25 48	14 36	1 17			
T 6	22 43	26 4	4 53	22 21	1 4	23 22	0 15	26 21	2 55	14 54	0 43	16 53	0 44	19 29	0 36	19 34	0 18	9 37	16 50	4 2	3 45	25 46	14 37	1 17			
F 7	22 49	23 7	4 32	22 4	1 22	23 29	0 17	26 25	2 59	14 55	0 44	16 53	0 44	19 30	0 36	19 34	0 18	9 37	16 50	3 59	3 43	25 45	14 38	1 17			
S 8	22 54	19 13	3 59	21 46	1 39	23 36	0 20	26 29	3 3	14 55	0 44	16 54	0 44	19 30	0 36	19 34	0 18	9 37	16 50	3 57	3 42	25 43	14 39	1 17			
S 9	22 59	14 33	3 15	21 28	1 56	23 41	0 22	26 32	3 7	14 55	0 44	16 54	0 44	19 30	0 36	19 33	0 18	9 37	16 51	3 55	3 41	25 42	14 40	1 18			
M10	23 4	9 17	2 23	21 11	2 13	23 46	0 24	26 36	3 10	14 55	0 44	16 55	0 45	19 31	0 36	19 33	0 18	9 37	16 51	3 54	3 40	25 40	14 40	1 18			
T 11	23 8	3 34	1 22	20 54	2 30	23 51	0 27	26 39	3 14	14 55	0 45	16 55	0 45	19 31	0 36	19 33	0 18	9 37	16 51	3 54	3 38	25 39	14 41	1 18			
W12	23 11	2n24	0 17	20 37	2 46	23 54	0 29	26 43	3 18	14 56	0 45	16 56	0 45	19 32	0 36	19 32	0 18	9 37	16 51	3 54	3 37	25 37	14 42	1 18			
T 13	23 15	8 28	0n52	20 20	3 1	23 57	0 31	26 46	3 21	14 56	0 45	16 57	0 45	19 32	0 36	19 32	0 18	9 37	16 52	3 54	3 36	25 35	14 43	1 18			
F 14	23 17	14 22	1 59	20 5	3 16	23 59	0 33	26 49	3 25	14 57	0 45	16 57	0 45	19 32	0 36	19 31	0 18	9 37	16 52	3 53	3 35	25 34	14 44	1 18			
S 15	23 20	19 46	3 2	19 50	3 29	24 1	0 36	26 52	3 28	14 57	0 46	16 58	0 45	19 33	0 36	19 31	0 18	9 37	16 52	3 52	3 33	25 32	14 45	1 18			
S 16	23 22	24 13	3 56	19 36	3 42	24 1	0 38	26 55	3 32	14 58	0 46	16 59	0 45	19 33	0 36	19 31	0 18	9 38	16 53	3 49	3 32	25 31	14 45	1 18			
M17	23 23	27 15	4 36	19 23	3 53	24 1	0 40	26 58	3 35	14 59	0 46	17 0	0 46	19 34	0 36	19 30	0 18	9 38	16 53	3 46	3 31	25 29	14 46	1 19			
T 18	23 25	28 23	4 57	19 12	4 3	24 1	0 42	27 1	3 38	14 59	0 46	17 0	0 46	19 34	0 36	19 30	0 18	9 38	16 54	3 42	3 30	25 27	14 47	1 19			
W19	23 25	27 25	4 59	19 2	4 11	23 59	0 44	27 4	3 42	15 0	0 47	17 1	0 46	19 34	0 37	19 29	0 18	9 38	16 54	3 37	3 28	25 26	14 48	1 19			
T 20	23 26	24 26	4 39	18 53	4 19	23 57	0 46	27 6	3 45	15 1	0 47	17 2	0 46	19 35	0 37	19 29	0 18	9 38	16 54	3 34	3 27	25 24	14 48	1 19			
F 21	23 26	19 51	4 0	18 46	4 24	23 55	0 49	27 8	3 48	15 2	0 47	17 3	0 46	19 35	0 37	19 29	0 18	9 38	16 55	3 31	3 26	25 22	14 49	1 19			
S 22	23 25	14 10	3 7	18 40	4 29	23 51	0 51	27 10	3 51	15 3	0 47	17 4	0 46	19 36	0 37	19 28	0 18	9 38	16 55	3 29	3 25	25 21	14 50	1 19			
S 23	23 24	7 52	2 3	18 36	4 32	23 47	0 53	27 12	3 53	15 4	0 48	17 5	0 46	19 36	0 37	19 28	0 18	9 38	16 55	3 28	3 23	25 19	14 51	1 19			
M24	23 23	1 22	0 53	18 34	4 33	23 42	0 55	27 14	3 56	15 5	0 48	17 6	0 47	19 37	0 37	19 27	0 18	9 39	16 56	3 27	3 22	25 17	14 51	1 19			
T 25	23 22	5s 1	0s17	18 33	4 33	23 36	0 56	27 16	3 59	15 6	0 48	17 7	0 47	19 37	0 37	19 27	0 18	9 39	16 56	3 27	3 21	25 16	14 52	1 20			
W26	23 19	11 2	1 25	18 34	4 32	23 30	0 58	27 18	4 1	15 8	0 48	17 8	0 47	19 38	0 37	19 26	0 18	9 39	16 56	3 27	3 20	25 14	14 53	1 20			
T 27	23 17	16 28	2 27	18 36	4 30	23 23	1 0	27 19	4 3	15 9	0 49	17 9	0 47	19 38	0 37	19 26	0 18	9 39	16 57	3 26	3 18	25 12	14 53	1 20			
F 28	23 14	21 5	3 21	18 40	4 26	23 15	1 2	27 20	4 6	15 10	0 49	17 10	0 47	19 39	0 37	19 26	0 18	9 39	16 57	3 24	3 17	25 11	14 54	1 20			
S 29	23 11	24 43	4 4	18 46	4 21	23 7	1 4	27 22	4 8	15 12	0 49	17 11	0 47	19 39	0 37	19 25	0 18	9 39	16 57	3 22	3 16	25 9	14 55	1 20			
S 30	23n 7	27s 9	4s36	18n52	4s15	22n58	1n 5	27s23	4s10	15s13	0s49	17s12	0s47	19s40	0s37	19n25	0s18	9s40	16s58	3n17	3n15	25s 7	14n55	1s20			

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

JULY 2080

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 39 53	10 <sup>56</sup> 6'39	27 <sup>♂</sup> 9	21 <sup>♂</sup> 12	21 <sup>♂</sup> 37	22°R15	21°R 5	14°R35	4°R43	2 <sup>♂</sup> 5	15°V14	8°R 6	8°V 8	28 <sup>♂</sup> 51	14 <sup>♂</sup> 36	M 1
T 2	18 43 50	11° 3'51	9 <sup>♂</sup> 9	21°36	22°50	21 <sup>♂</sup> 59	21 <sup>♂</sup> 1	14 <sup>♂</sup> 31	4 <sup>♂</sup> 41	2° 7	15°14	7°V52	8° 4	28°58	14°38	T 2
W 3	18 47 46	12° 1'02	21° 5	22° 5	24° 4	21°44	20°57	14°28	4°39	2° 9	15°14	7°39	8° 1	29° 5	14°41	W 3
T 4	18 51 43	12°58'13	2 <sup>♂</sup> 58	22°39	25°17	21°29	20°52	14°25	4°37	2°11	15°14	7°26	7°58	29°11	14°43	T 4
F 5	18 55 39	13°55'24	14°49	23°18	26°31	21°15	20°48	14°21	4°35	2°13	15°15	7°15	7°55	29°18	14°46	F 5
S 6	18 59 36	14°52'35	26°40	24° 1	27°45	21° 1	20°43	14°18	4°32	2°16	15°15	7° 7	7°52	29°25	14°48	S 6
S 7	19 3 32	15°49'47	8 <sup>♂</sup> 36	24°49	28°58	20°48	20°38	14°14	4°30	2°18	15°15	7° 2	7°48	29°31	14°50	S 7
M 8	19 7 29	16°46'58	20°38	25°42	0 <sup>♂</sup> 12	20°36	20°33	14°10	4°28	2°20	15°15	6°59	7°45	29°38	14°53	M 8
T 9	19 11 25	17°44'10	2 <sup>♂</sup> 52	26°39	1°25	20°24	20°28	14° 7	4°26	2°22	15°15	6°D58	7°42	29°45	14°55	T 9
W10	19 15 22	18°41'23	15°22	27°41	2°39	20°14	20°22	14° 3	4°23	2°24	15°15	6°R58	7°39	29°52	14°57	W10
T 11	19 19 19	19°38'35	28°14	28°47	3°53	20° 4	20°17	13°59	4°21	2°26	15°16	6°58	7°36	29°58	14°59	T 11
F 12	19 23 15	20°35'49	11 <sup>♂</sup> 31	29°57	5° 6	19°54	20°11	13°55	4°19	2°29	15°16	6°57	7°33	0 <sup>♂</sup> 5	15° 1	F 12
S 13	19 27 12	21°33'03	25°16	1 <sup>♂</sup> 12	6°20	19°46	20° 5	13°51	4°16	2°31	15°16	6°53	7°29	0°12	15° 3	S 13
S 14	19 31 8	22°30'17	9 <sup>♂</sup> 11	2°32	7°33	19°38	19°59	13°47	4°14	2°33	15°16	6°47	7°26	0°18	15° 5	S 14
M15	19 35 5	23°27'32	24°13	3°55	8°47	19°31	19°53	13°43	4°12	2°35	15°R16	6°39	7°23	0°25	15° 7	M15
T 16	19 39 1	24°24'47	9 <sup>♂</sup> 17	5°23	10° 0	19°25	19°47	13°39	4° 9	2°37	15°16	6°29	7°20	0°32	15° 9	T 16
W17	19 42 58	25°22'03	24°33	6°54	11°14	19°19	19°40	13°35	4° 7	2°40	15°16	6°19	7°17	0°39	15°11	W17
T 18	19 46 55	26°19'20	9 <sup>♂</sup> 10	8°30	12°28	19°15	19°34	13°31	4° 5	2°42	15°16	6°10	7°14	0°45	15°12	T 18
F 19	19 50 51	27°16'36	24°58	10° 9	13°41	19°11	19°27	13°27	4° 2	2°44	15°15	6° 3	7°10	0°52	15°14	F 19
S 20	19 54 48	28°13'53	9 <sup>♂</sup> 17	11°52	14°55	19° 9	19°21	13°23	4° 0	2°46	15°15	5°58	7° 7	0°59	15°16	S 20
S 21	19 58 44	29°11'09	24°11	13°38	16° 8	19° 7	19°14	13°18	3°58	2°48	15°15	5°55	7° 4	1° 5	15°17	S 21
M22	20 2 41	0 <sup>♂</sup> 8'27	8 <sup>♂</sup> 7	15°28	17°22	19° 6	19° 7	13°14	3°55	2°51	15°15	5°D55	7° 1	1°12	15°19	M22
T 23	20 6 37	1° 5'44	21°37	17°20	18°35	19°D 5	19° 0	13°10	3°53	2°53	15°15	5°55	6°58	1°19	15°21	T 23
W24	20 10 34	2° 3'02	4 <sup>♂</sup> 12	19°16	19°49	19° 6	18°53	13° 5	3°50	2°55	15°15	5°R56	6°54	1°26	15°22	W24
T 25	20 14 30	3° 0'20	17°27	21°14	21° 2	19° 8	18°46	13° 1	3°48	2°57	15°15	5°55	6°51	1°32	15°23	T 25
F 26	20 18 27	3°57'38	29°54	23°13	22°16	19°10	18°38	12°57	3°46	3° 0	15°14	5°52	6°48	1°39	15°25	F 26
S 27	20 22 24	4°54'57	12 <sup>♂</sup> 9	25°15	23°29	19°13	18°31	12°52	3°43	3° 2	15°14	5°46	6°45	1°46	15°26	S 27
S 28	20 26 20	5°52'16	24°14	27°18	24°43	19°17	18°24	12°48	3°41	3° 4	15°14	5°38	6°42	1°52	15°27	S 28
M29	20 30 17	6°49'36	6 <sup>♂</sup> 13	29°23	25°56	19°22	18°16	12°44	3°38	3° 6	15°13	5°29	6°39	1°59	15°29	M29
T 30	20 34 13	7°46'57	18° 7	1 <sup>♂</sup> 28	27°10	19°28	18° 9	12°39	3°36	3° 8	15°13	5°18	6°35	2° 6	15°30	T 30
W31	20 38 10	8 <sup>♂</sup> 44'18	29 <sup>♂</sup> 59	3 <sup>♂</sup> 34	28 <sup>♂</sup> 23	19 <sup>♂</sup> 34	18 <sup>♂</sup> 1	12 <sup>♂</sup> 35	3 <sup>♂</sup> 34	3 <sup>♂</sup> 11	15°V13	5°V 7	6°V32	2 <sup>♂</sup> 13	15 <sup>♂</sup> 31	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	decl lat	decl lat	decl lat
M 1	23n 3	28s18	4s54	19n 0	4s 9	22n48	1n 7	27s24	4s12	15s15	0s49	17s13	0s47	19s40	0s37	19n24
T 2	22 58	28 6	4 59	19 9	4 1	22 38	1 9	27 25	4 14	15 16	0 50	17 14	0 48	19 41	0 37	19 24
W 3	22 53	26 35	4 51	19 20	3 52	22 27	1 10	27 25	4 15	15 18	0 50	17 15	0 48	19 41	0 37	19 23
T 4	22 48	23 53	4 31	19 31	3 43	22 15	1 12	27 26	4 17	15 20	0 50	17 16	0 48	19 42	0 37	19 23
F 5	22 42	20 11	3 58	19 43	3 33	22 3	1 13	27 26	4 18	15 21	0 50	17 17	0 48	19 43	0 37	19 22
S 6	22 36	15 41	3 16	19 55	3 22	21 50	1 15	27 27	4 20	15 23	0 51	17 18	0 48	19 43	0 37	19 22
S 7	22 30	10 34	2 24	20 9	3 11	21 36	1 16	27 27	4 21	15 25	0 51	17 19	0 48	19 44	0 37	19 21
M 8	22 23	5 1	1 25	20 22	3 0	21 22	1 18	27 27	4 22	15 27	0 51	17 21	0 48	19 44	0 37	19 21
T 9	22 15	0n48	0 22	20 36	2 47	21 7	1 19	27 28	4 23	15 29	0 51	17 22	0 48	19 45	0 37	19 21
W10	22 8	6 44	0n44	20 50	2 35	20 52	1 20	27 28	4 24	15 30	0 52	17 23	0 49	19 45	0 37	19 20
T 11	22 0	12 33	1 50	21 3	2 22	20 36	1 21	27 28	4 25	15 32	0 52	17 24	0 49	19 46	0 37	19 20
F 12	21 51	18 0	2 52	21 17	2 9	20 19	1 22	27 28	4 26	15 34	0 52	17 25	0 49	19 46	0 37	19 19
S 13	21 42	22 44	3 46	21 30	1 56	20 2	1 23	27 28	4 26	15 37	0 52	17 27	0 49	19 47	0 37	19 19
S 14	21 33	26 18	4 29	21 42	1 42	19 44	1 24	27 28	4 27	15 39	0 52	17 28	0 49	19 48	0 37	19 18
M15	21 24	28 13	4 55	21 54	1 29	19 26	1 25	27 28	4 27	15 41	0 53	17 29	0 49	19 48	0 37	19 18
T 16	21 14	28 7	5 1	22 4	1 15	19 7	1 26	27 27	4 28	15 43	0 53	17 30	0 49	19 49	0 37	19 17
W17	21 3	25 54	4 47	22 13	1 2	18 47	1 27	27 27	4 28	15 45	0 53	17 32	0 49	19 49	0 37	19 17
T 18	20 53	21 49	4 12	22 21	0 49	18 28	1 28	27 27	4 28	15 47	0 53	17 33	0 50	19 50	0 37	19 16
F 19	20 42	16 19	3 19	22 27	0 35	18 7	1 28	27 27	4 28	15 50	0 53	17 34	0 50	19 50	0 37	19 16
S 20	20 31	9 58	2 14	22 32	0 23	17 46	1 29	27 27	4 28	15 52	0 54	17 36	0 50	19 51	0 37	19 15
S 21	20 19	3 16	1 2	22 34	0 10	17 25	1 29	27 26	4 28	15 54	0 54	17 37	0 50	19 52	0 37	19 15
M22	20 7	3s24	0s12	22 34	0n 2	17 3	1 30	27 26	4 28	15 57	0 54	17 38	0 50	19 52	0 37	19 14
T 23	19 54	9 42	1 23	22 32	0 14	16 41	1 30	27 26	4 28	15 59	0 54	17 40	0 50	19 53	0 37	19 14
W24	19 42	15 23	2 27	22 28	0 25	16 18	1 31	27 26	4 28	16 1	0 54	17 41	0 50	19 53	0 37	19 13
T 25	19 29	20 16	3 22	22 21	0 36	15 55	1 31	27 25	4 27	16 4	0 55	17 42	0 50	19 54	0 37	19 13
F 26	19 15	24 8	4 7	22 11	0 46	15 31	1 31	27 25	4 27	16 6	0 55	17 44	0 50	19 54	0 37	19 12
S 27	19 2	26 51	4 39	21 59	0 55	15 7	1 31	27 25	4 26	16 9	0 55	17 45	0 50	19 55	0 37	19 12
S 28	18 48	28 16	4 58	21 44	1 4	14 43	1 31	27 25	4 26	16 11	0 55	17 46	0 51	19 56	0 37	19 11
M29	18 34	28 21	5 4	21 26	1 11	14 18	1 31	27 25	4 25	16 13	0 55	17 48	0 51	19 56	0 37	19 11
T 30	18 19	27 6	4 56	21 6	1 18	13 53	1 31	27 24	4 25	16 16	0 55	17 49	0 51	19 57	0 37	19 10
W31	18n 4	24s38	4s36	20n43	1n25	13n27	1n31	27s24	4s24	16s18	0s56	17s50	0s51	19s57	0s37	19n10

Julian Day Number = 2480946.5, Delta T = 84.90 sec  
Ecliptic obliquity = 23°25'52, Nutation = - 0°00'02, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°51'54, Lahiri = 24°58'54



ASTRODIENST EPHEMERIS for the year 2080  
geocentric

AUGUST 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 42 6	9♏41'40	11♏51	5♏40	29♏36	19♏41	17°R53	12°R30	3°R31	3♏13	15°R12	4°R58	6♏29	2♏19	15♏32	T 1
F 2	20 46 3	10°39'02	23°44	7°46	0♏50	19°49	17°46	12°26	3°29	3°15	15°12	4°49	6°26	2°26	15°33	F 2
S 3	20 49 59	11°36'26	5♏40	9°52	2° 3	19°58	17°38	12°21	3°26	3°17	15°12	4°43	6°23	2°33	15°34	S 3
S 4	20 53 56	12°33'50	17°41	11°57	3°17	20° 8	17°30	12°17	3°24	3°19	15°11	4°39	6°20	2°39	15°35	S 4
M 5	20 57 53	13°31'16	29°49	14° 1	4°30	20°18	17°22	12°12	3°22	3°22	15°11	4°D38	6°16	2°46	15°35	M 5
T 6	21 1 149	14°28'43	12♏ 8	16° 4	5°43	20°29	17°15	12° 8	3°19	3°24	15°10	4°38	6°13	2°53	15°36	T 6
W 7	21 5 46	15°26'11	24°41	18° 7	6°57	20°41	17° 7	12° 3	3°17	3°26	15°10	4°39	6°10	3° 0	15°37	W 7
T 8	21 9 42	16°23'40	7♏33	20° 8	8°10	20°53	16°59	11°59	3°15	3°28	15° 9	4°40	6° 7	3° 6	15°38	T 8
F 9	21 13 39	17°21'11	20°47	22° 8	9°24	21° 6	16°51	11°55	3°12	3°30	15° 9	4°R40	6° 4	3°13	15°38	F 9
S 10	21 17 35	18°18'43	4♏26	24° 7	10°37	21°20	16°43	11°50	3°10	3°33	15° 8	4°39	6° 0	3°20	15°39	S 10
S 11	21 21 32	19°16'16	18°31	26° 4	11°50	21°35	16°36	11°46	3° 8	3°35	15° 8	4°36	5°57	3°26	15°39	S 11
M12	21 25 28	20°13'51	3♏ 2	28° 0	13° 4	21°50	16°28	11°41	3° 6	3°37	15° 7	4°31	5°54	3°33	15°40	M12
T 13	21 29 25	21°11'28	17°55	29°55	14°17	22° 6	16°20	11°37	3° 3	3°39	15° 7	4°26	5°51	3°40	15°40	T 13
W14	21 33 22	22° 9'05	3♏ 2	1♏48	15°30	22°22	16°12	11°33	3° 1	3°41	15° 6	4°19	5°48	3°46	15°40	W14
T 15	21 37 18	23° 6'44	18°14	3°39	16°43	22°39	16° 4	11°28	2°59	3°43	15° 5	4°13	5°45	3°53	15°41	T 15
F 16	21 41 15	24° 4'24	3♏21	5°29	17°57	22°57	15°57	11°24	2°57	3°45	15° 5	4° 9	5°41	4° 0	15°41	F 16
S 17	21 45 11	25° 2'06	18°13	7°18	19°10	23°15	15°49	11°20	2°55	3°48	15° 4	4° 6	5°38	4° 7	15°41	S 17
S 18	21 49 8	25°59'48	2♏44	9° 5	20°23	23°35	15°41	11°15	2°52	3°50	15° 3	4°D 5	5°35	4°13	15°41	S 18
M19	21 53 4	26°57'32	16°48	10°51	21°36	23°54	15°34	11°11	2°50	3°52	15° 3	4° 6	5°32	4°20	15°R41	M19
T 20	21 57 1	27°55'16	0♏25	12°35	22°50	24°14	15°26	11° 7	2°48	3°54	15° 2	4° 7	5°29	4°27	15°41	T 20
W21	22 0 57	28°53'02	13°36	14°18	24° 3	24°35	15°19	11° 3	2°46	3°56	15° 1	4° 9	5°25	4°33	15°41	W21
T 22	22 4 54	29°50'49	26°24	16° 0	25°16	24°56	15°12	10°59	2°44	3°58	15° 0	4°R 9	5°22	4°40	15°41	T 22
F 23	22 8 51	0♏48'37	8♏52	17°40	26°29	25°18	15° 4	10°55	2°42	4° 0	15° 0	4° 9	5°19	4°47	15°40	F 23
S 24	22 12 47	1°46'26	21° 5	19°18	27°42	25°41	14°57	10°51	2°40	4° 2	14°59	4° 7	5°16	4°54	15°40	S 24
S 25	22 16 44	2°44'17	3♏ 7	20°56	28°55	26° 4	14°50	10°47	2°38	4° 4	14°58	4° 4	5°13	5° 0	15°40	S 25
M26	22 20 40	3°42'08	15° 3	22°32	0♏ 8	26°27	14°43	10°43	2°36	4° 6	14°57	4° 0	5°10	5° 7	15°40	M26
T 27	22 24 37	4°40'01	26°55	24° 6	1°22	26°51	14°36	10°39	2°34	4° 8	14°56	3°55	5° 6	5°14	15°39	T 27
W28	22 28 33	5°37'56	8♏46	25°40	2°35	27°16	14°29	10°35	2°32	4°10	14°56	3°50	5° 3	5°20	15°39	W28
T 29	22 32 30	6°35'51	20°40	27°12	3°48	27°40	14°23	10°31	2°30	4°12	14°55	3°46	5° 0	5°27	15°38	T 29
F 30	22 36 26	7°33'48	2♏38	28°42	5° 1	28° 6	14°16	10°27	2°29	4°14	14°54	3°42	4°57	5°34	15°37	F 30
S 31	22 40 23	8♏31'47	14♏42	0♏11	6♏14	28♏32	14° 9	10°24	2°27	4♏16	14°53	3°39	4°54	5°40	15♏37	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	17n49	21s 8	4s 4	20n18	1n30	13n 1	1n31	27s24	4s23	16s21	0s56	17s52	0s51	19s58	0s37	19n 9
F 2	17 34	16 46	3 21	19 51	1 35	12 35	1 31	27 24	4 22	16 23	0 56	17 53	0 51	19 58	0 37	19 9
S 3	17 18	11 44	2 29	19 21	1 38	12 9	1 30	27 24	4 21	16 26	0 56	17 54	0 51	19 59	0 37	19 8
S 4	17 2	6 15	1 30	18 50	1 41	11 42	1 30	27 24	4 21	16 28	0 56	17 56	0 51	19 59	0 37	19 8
M 5	16 46	0 28	0 26	18 16	1 44	11 14	1 29	27 24	4 20	16 31	0 56	17 57	0 51	20 0	0 37	19 7
T 6	16 29	5n25	0n40	17 41	1 45	10 47	1 29	27 23	4 19	16 33	0 56	17 58	0 51	20 1	0 37	19 7
W 7	16 12	11 12	1 46	17 4	1 46	10 19	1 28	27 23	4 18	16 36	0 57	18 0	0 51	20 1	0 37	19 6
T 8	15 55	16 40	2 48	16 26	1 46	9 51	1 27	27 23	4 17	16 38	0 57	18 1	0 52	20 2	0 37	19 6
F 9	15 38	21 31	3 43	15 47	1 45	9 23	1 27	27 23	4 16	16 41	0 57	18 2	0 52	20 2	0 37	19 5
S 10	15 20	25 24	4 27	15 7	1 44	8 54	1 26	27 23	4 14	16 43	0 57	18 4	0 52	20 3	0 37	19 5
S 11	15 2	27 52	4 57	14 26	1 42	8 26	1 25	27 23	4 13	16 46	0 57	18 5	0 52	20 3	0 37	19 4
M12	14 44	28 32	5 9	13 44	1 40	7 57	1 24	27 22	4 12	16 48	0 57	18 6	0 52	20 4	0 37	19 4
T 13	14 26	27 12	5 0	13 1	1 37	7 27	1 23	27 22	4 11	16 51	0 57	18 8	0 52	20 4	0 37	19 3
W14	14 7	23 52	4 31	12 17	1 34	6 58	1 22	27 22	4 10	16 53	0 57	18 9	0 52	20 5	0 37	19 3
T 15	13 49	18 53	3 43	11 33	1 30	6 28	1 20	27 22	4 9	16 56	0 57	18 10	0 52	20 5	0 37	19 2
F 16	13 30	12 45	2 39	10 49	1 25	5 59	1 19	27 22	4 7	16 58	0 58	18 11	0 52	20 6	0 37	19 2
S 17	13 10	5 58	1 25	10 4	1 21	5 29	1 18	27 21	4 6	17 0	0 58	18 13	0 52	20 6	0 37	19 1
S 18	12 51	0s58	0 7	9 20	1 16	4 59	1 16	27 21	4 5	17 3	0 58	18 14	0 52	20 7	0 37	19 1
M19	12 31	7 40	1s 9	8 35	1 10	4 28	1 15	27 21	4 3	17 5	0 58	18 15	0 52	20 7	0 37	19 0
T 20	12 12	13 47	2 18	7 49	1 4	3 58	1 13	27 20	4 2	17 7	0 58	18 16	0 52	20 8	0 37	19 0
W21	11 52	19 4	3 19	7 4	0 58	3 28	1 12	27 20	4 1	17 10	0 58	18 17	0 52	20 8	0 37	18 59
T 22	11 31	23 20	4 7	6 19	0 52	2 57	1 10	27 19	3 59	17 12	0 58	18 19	0 52	20 9	0 37	18 59
F 23	11 11	26 25	4 42	5 34	0 45	2 26	1 8	27 19	3 58	17 14	0 58	18 20	0 52	20 9	0 37	18 58
S 24	10 50	28 11	5 4	4 49	0 38	1 56	1 6	27 18	3 56	17 16	0 58	18 21	0 53	20 10	0 37	18 58
S 25	10 30	28 36	5 12	4 4	0 31	1 25	1 5	27 17	3 55	17 18	0 58	18 22	0 53	20 10	0 37	18 57
M26	10 9	27 39	5 6	3 20	0 24	0 54	1 3	27 17	3 54	17 20	0 58	18 23	0 53	20 10	0 37	18 57
T 27	9 48	25 28	4 48	2 35	0 16	0 23	1 1	27 16	3 52	17 23	0 58	18 24	0 53	20 11	0 37	18 56
W28	9 27	22 11	4 16	1 51	0 8	0s 8	0 59	27 15	3 51	17 25	0 58	18 25	0 53	20 11	0 37	18 56
T 29	9 5	17 59	3 34	1 7	0 1	0 39	0 57	27 14	3 49	17 27	0 58	18 26	0 53	20 12	0 37	18 56
F 30	8 44	13 3	2 42	0 24	0s 8	1 9	0 54	27 13	3 48	17 29	0 58	18 28	0 53	20 12	0 37	18 55
S 31	8n22	7s36	1s42	0s19	0s16	1s40	0n52	27s12	3s46	17s30	0s58	18s29	0s53	20s12	0s37	18n55

Julian Day Number = 2480977.5, Delta T = 84.93 sec  
Ecliptic obliquity = 23°25'53, Nutation = - 0°00'00, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°51'58, Lahiri = 24°58'59

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

SEPTEMBER 2080

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 44 20	9 <sup>h</sup> 29'47"	26 <sup>h</sup> 53'	1 <sup>h</sup> 39'	7 <sup>h</sup> 27'	28 <sup>h</sup> 58'	14°R 3	10°R20	2°R25	4 <sup>h</sup> 18'	14°R52	3°R38	4 <sup>h</sup> 51'	5 <sup>h</sup> 47'	15°R36	S 1
M 2	22 48 16	10°27'49"	9 <sup>h</sup> 14'	3° 6'	8°40'	29°25'	13 <sup>h</sup> 57'	10 <sup>h</sup> 17'	2 <sup>h</sup> 23'	4°20'	14°Y51	3°D38	4°47'	5°54'	15°R35	M 2
T 3	22 52 13	11°25'53"	21°46'	4°31'	9°53'	29°52'	13°51'	10°13'	2°22'	4°21'	14°50'	3°Y39	4°44'	6° 1'	15°34	T 3
W 4	22 56 9	12°23'59"	4 <sup>h</sup> 31'	5°54'	11° 5'	0 <sup>h</sup> 19'	13°45'	10°10'	2°20'	4°23'	14°49'	3°40'	4°41'	6° 7'	15°34	W 4
T 5	23 0 6	13°22'06"	17°31'	7°17'	12°18'	0°47'	13°39'	10° 6'	2°18'	4°25'	14°48'	3°42'	4°38'	6°14'	15°33	T 5
F 6	23 4 2	14°20'16"	0 <sup>h</sup> 11'49"	8°37'	13°31'	1°16'	13°33'	10° 3'	2°17'	4°27'	14°47'	3°43'	4°35'	6°21'	15°32	F 6
S 7	23 7 59	15°18'27"	14°26'	9°57'	14°44'	1°44'	13°27'	10° 0'	2°15'	4°29'	14°46'	3°R43	4°31'	6°27'	15°31	S 7
S 8	23 11 55	16°16'41"	28°23'	11°14'	15°57'	2°13'	13°22'	9°57'	2°14'	4°30'	14°45'	3°43'	4°28'	6°34'	15°29	S 8
M 9	23 15 52	17°14'57"	12 <sup>h</sup> 34'	12°31'	17°10'	2°43'	13°17'	9°54'	2°12'	4°32'	14°44'	3°42'	4°25'	6°41'	15°28	M 9
T 10	23 19 49	18°13'15"	27°13'	13°45'	18°22'	3°13'	13°12'	9°51'	2°11'	4°34'	14°43'	3°40'	4°22'	6°47'	15°27	T 10
W11	23 23 45	19°11'35"	12 <sup>h</sup> 0'	14°58'	19°35'	3°43'	13° 7'	9°48'	2° 9'	4°36'	14°42'	3°38'	4°19'	6°54'	15°26	W11
T 12	23 27 42	20° 9'57"	26°52'	16° 9'	20°48'	4°14'	13° 2'	9°45'	2° 8'	4°37'	14°41'	3°37'	4°16'	7° 1'	15°25	T 12
F 13	23 31 38	21° 8'20"	11 <sup>h</sup> 43'	17°18'	22° 1'	4°45'	12°57'	9°42'	2° 7'	4°39'	14°40'	3°35'	4°12'	7° 8'	15°23	F 13
S 14	23 35 35	22° 6'46"	26°25'	18°25'	23°13'	5°16'	12°53'	9°39'	2° 5'	4°41'	14°39'	3°35'	4° 9'	7°14'	15°22	S 14
S 15	23 39 31	23° 5'13"	10 <sup>h</sup> 51'	19°29'	24°26'	5°48'	12°48'	9°37'	2° 4'	4°42'	14°38'	3°D35	4° 6'	7°21'	15°20	S 15
M16	23 43 28	24° 3'42"	24°55'	20°32'	25°39'	6°20'	12°44'	9°34'	2° 3'	4°44'	14°37'	3°35'	4° 3'	7°28'	15°19	M16
T 17	23 47 24	25° 2'13"	8 <sup>h</sup> 35'	21°32'	26°51'	6°52'	12°40'	9°32'	2° 2'	4°45'	14°36'	3°36'	4° 0'	7°34'	15°17	T 17
W18	23 51 21	26° 0'46"	21°51'	22°30'	28° 4'	7°24'	12°36'	9°29'	2° 1'	4°47'	14°35'	3°37'	3°57'	7°41'	15°16	W18
T 19	23 55 17	26°59'20"	4 <sup>h</sup> 43'	23°25'	29°17'	7°57'	12°33'	9°27'	2° 0'	4°48'	14°34'	3°37'	3°53'	7°48'	15°14	T 19
F 20	23 59 14	27°57'56"	17°14'	24°17'	0 <sup>h</sup> 29'	8°31'	12°29'	9°25'	1°59'	4°50'	14°33'	3°38'	3°50'	7°54'	15°12	F 20
S 21	0 3 11	28°56'34"	29°29'	25° 5'	1°42'	9° 4'	12°26'	9°23'	1°58'	4°51'	14°31'	3°R38	3°47'	8° 1'	15°10	S 21
S 22	0 7 7	29°55'13"	11 <sup>h</sup> 32'	25°50'	2°54'	9°38'	12°23'	9°21'	1°57'	4°53'	14°30'	3°38'	3°44'	8° 8'	15° 9	S 22
M23	0 11 4	0 <sup>h</sup> 53'54"	23°27'	26°32'	4° 7'	10°12'	12°20'	9°19'	1°56'	4°54'	14°29'	3°38'	3°41'	8°15'	15° 7	M23
T 24	0 15 0	1°52'37"	5 <sup>h</sup> 19'	27° 9'	5°19'	10°46'	12°18'	9°17'	1°55'	4°56'	14°28'	3°37'	3°37'	8°21'	15° 5	T 24
W25	0 18 57	2°51'21"	17°11'	27°43'	6°32'	11°21'	12°15'	9°15'	1°54'	4°57'	14°27'	3°37'	3°34'	8°28'	15° 3	W25
T 26	0 22 53	3°50'08"	29° 8'	28°11'	7°44'	11°56'	12°13'	9°13'	1°53'	4°58'	14°26'	3°D37	3°31'	8°35'	15° 1	T 26
F 27	0 26 50	4°48'55"	11 <sup>h</sup> 12'	28°34'	8°56'	12°31'	12°11'	9°12'	1°53'	5° 0'	14°25'	3°37'	3°28'	8°41'	14°59	F 27
S 28	0 30 46	5°47'45"	23°26'	28°52'	10° 9'	13° 6'	12° 9'	9°10'	1°52'	5° 1'	14°24'	3°37'	3°25'	8°48'	14°57	S 28
S 29	0 34 43	6°46'37"	5 <sup>h</sup> Y51	29° 4'	11°21'	13°42'	12° 7'	9° 9'	1°52'	5° 2'	14°22'	3°R37	3°22'	8°55'	14°55	S 29
M30	0 38 40	7 <sup>h</sup> 45'31"	18°Y30	29°R10	12 <sup>h</sup> 33'	14 <sup>h</sup> 18'	12 <sup>h</sup> 6'	9 <sup>h</sup> 8'	1 <sup>h</sup> 51'	5 <sup>h</sup> 2'	14°Y21	3°Y37	3°Y18	9 <sup>h</sup> 1'	14 <sup>h</sup> 52'	M30

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	8n 0	1s48	0s37	1s 1	0s24	2s11	0n50	27s10	3s45	17s32	0s58	18s30	0s53	20s13	0s37	18n54	0s17	10s 6	17s18	1n27	1n55	23s 6	15n 4	1s30			
M 2	7 39	4n 8	0n31	1 43	0 32	2 42	0 48	27 9	3 43	17 34	0 58	18 31	0 53	20 13	0 37	18 54	0 17	10 7	17 18	1 27	1 54	23 4	15 4	1 30			
T 3	7 16	10 0	1 38	2 25	0 41	3 13	0 45	27 8	3 42	17 36	0 58	18 32	0 53	20 14	0 37	18 53	0 17	10 8	17 19	1 27	1 53	23 1	15 3	1 31			
W 4	6 54	15 34	2 42	3 6	0 49	3 44	0 43	27 6	3 40	17 38	0 58	18 33	0 53	20 14	0 37	18 53	0 17	10 8	17 19	1 28	1 52	22 59	15 3	1 31			
T 5	6 32	20 33	3 39	3 46	0 58	4 15	0 40	27 4	3 39	17 39	0 58	18 33	0 53	20 14	0 37	18 53	0 17	10 9	17 19	1 28	1 50	22 57	15 2	1 31			
F 6	6 10	24 38	4 25	4 26	1 6	4 45	0 38	27 3	3 37	17 41	0 58	18 34	0 53	20 15	0 37	18 52	0 17	10 9	17 19	1 29	1 49	22 55	15 2	1 31			
S 7	5 47	27 27	4 58	5 5	1 15	5 16	0 35	27 1	3 36	17 43	0 58	18 35	0 53	20 15	0 37	18 52	0 17	10 10	17 19	1 29	1 48	22 53	15 1	1 31			
S 8	5 25	28 40	5 14	5 43	1 23	5 46	0 33	26 59	3 34	17 44	0 58	18 36	0 53	20 15	0 37	18 51	0 17	10 10	17 20	1 29	1 47	22 51	15 1	1 31			
M 9	5 2	28 0	5 12	6 21	1 32	6 17	0 30	26 57	3 32	17 46	0 58	18 37	0 53	20 16	0 37	18 51	0 17	10 11	17 20	1 28	1 45	22 49	15 0	1 32			
T 10	4 39	25 26	4 50	6 58	1 40	6 47	0 27	26 54	3 31	17 47	0 58	18 38	0 53	20 16	0 37	18 50	0 17	10 11	17 20	1 27	1 44	22 46	15 0	1 32			
W11	4 17	21 9	4 8	7 34	1 49	7 17	0 24	26 52	3 29	17 49	0 58	18 39	0 53	20 16	0 37	18 50	0 17	10 12	17 20	1 27	1 43	22 44	14 59	1 32			
T 12	3 54	15 31	3 9	8 9	1 57	7 47	0 22	26 49	3 28	17 50	0 58	18 39	0 53	20 17	0 37	18 50	0 17	10 12	17 20	1 26	1 42	22 42	14 59	1 32			
F 13	3 31	8 59	1 58	8 43	2 5	8 17	0 19	26 47	3 26	17 51	0 58	18 40	0 53	20 17	0 37	18 49	0 17	10 13	17 20	1 26	1 40	22 40	14 58	1 32			
S 14	3 8	2 2	0 40	9 16	2 14	8 47	0 16	26 44	3 24	17 52	0 58	18 41	0 53	20 17	0 37	18 49	0 17	10 13	17 21	1 25	1 39	22 38	14 58	1 32			
S 15	2 45	4s54	0s40	9 49	2 22	9 16	0 13	26 41	3 23	17 54	0 58	18 42	0 53	20 17	0 37	18 48	0 17	10 14	17 21	1 25	1 38	22 35	14 57	1 33			
M16	2 21	11 26	1 55	10 20	2 30	9 45	0 10	26 38	3 21	17 55	0 58	18 42	0 53	20 18	0 37	18 48	0 17	10 14	17 21	1 26	1 37	22 33	14 57	1 33			
T 17	1 58	17 14	3 2	10 50	2 37	10 14	0 7	26 35	3 20	17 56	0 58	18 43	0 53	20 18	0 37	18 48	0 17	10 15	17 21	1 26	1 35	22 31	14 56	1 33			
W18	1 35	22 2	3 57	11 18	2 45	10 43	0 4	26 31	3 18	17 57	0 58	18 44	0 53	20 18	0 37	18 47	0 17	10 16	17 21	1 26	1 34	22 29	14 55	1 33			
T 19	1 12	25 37	4 38	11 45	2 52	11 12	0 1	26 28	3 16	17 58	0 58	18 44	0 53	20 18	0 37	18 47	0 17	10 16	17 21	1 26	1 33	22 26	14 55	1 33			
F 20	0 49	27 52	5 4	12 11	2 59	11 40	0s 2	26 24	3 15	17 59	0 58	18 45	0 53	20 18	0 37	18 47	0 17	10 17	17 21	1 27	1 31	22 24	14 54	1 33			
S 21	0 25	28 42	5 16	12 35	3 6	12 9	0 5	26 20	3 13	18 0	0 58	18 45	0 53	20 19	0 37	18 46	0 17	10 17	17 21	1 27	1 30	22 22	14 53	1 33			
S 22	0 2	28 9	5 14	12 58	3 12	12 36	0 8	26 16	3 12	18 1	0 58	18 46	0 53	20 19	0 37	18 46	0 17	10 18	17 22	1 27	1 29	22 20	14 53	1 34			
M23	0s21	26 18	4 58	13 18	3 18	13 4	0 12	26 12	3 10	18 1	0 58	18 47	0 53	20 19	0 37	18 46	0 17	10 18	17 22	1 26	1 28	22 17	14 52	1 34			
T 24	0 45	23 18	4 30	13 37	3 23	13 31	0 15	26 7	3 8	18 2	0 58	18 47	0 53	20 19	0 37	18 45	0 17	10 19	17 22	1 26	1 26	22 15	14 51	1 34			
W25	1 8	19 20	3 50	13 54	3 28	13 58	0 18	26 3	3 7	18 3	0 58	18 48	0 53	20 19	0 37	18 45	0 17	10 19	17 22	1 26	1 25	22 13	14 51	1 34			
T 26	1 31	14 35	3 0	14 8	3 33	14 25	0 21	25 58	3 5	18 3	0 58	18 48	0 53	20 20	0 36	18 45	0 17	10 20	17 22	1 26	1 24	22 11	14 50	1 34			
F 27	1 55	9 14	2 1	14 20	3 36	14 51	0 24	25 53	3 3	18 4	0 58	18 48	0 53	20 20	0 36	18 44	0 17	10 20	17 22	1 26	1 23	22 8	14 49	1 34			
S 28	2 18	3 28	0 56	14 29	3 39	15 17	0 28	25 48	3 2	18 4	0 58	18 49	0 53	20 20	0 36	18 44	0 17	10 21	17 22	1 26	1 21	22 6	14 48	1 35			
S 29	2 41	2n31	0n12	14 35	3 41	15 43	0 31	25 43	3 0	18 5	0 58	18 49	0 53	20 20	0 36	18 44	0 17	10 21	17 22	1 26	1 20	22 4	14 48	1 35			
M30	3s 5	8n30	1n22	14s38	3s42	16s 8	0s34	25s37	2s59	18s 5	0s58	18s49	0s53	20s20	0s36	18n43	0s17	10s22	17s22	1n26	1n19	22s 1	14n47	1s35			

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

OCTOBER 2080

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 42 36	8♂44'27	1♂22	29°R 9	13♂45	14♂54	12°R 4	9°R 6	1°R50	5♂ 5	14°R20	3°R37	3°Y15	9♂ 8	14°R50	T 1
W 2	0 46 33	9°43'25	14°27	29♂ 1	14°58	15°30	12♂ 3	9♂ 5	1♂50	5° 6	14°Y19	3°Y36	3°12	9°15	14♂48	W 2
T 3	0 50 29	10°42'25	27°46	28°45	16°10	16° 6	12° 2	9° 4	1°50	5° 7	14°18	3°35	3° 9	9°22	14°46	T 3
F 4	0 54 26	11°41'28	11♂19	28°22	17°22	16°43	12° 1	9° 3	1°49	5° 8	14°17	3°35	3° 6	9°28	14°43	F 4
S 5	0 58 22	12°40'32	25° 4	27°51	18°34	17°20	12° 1	9° 3	1°49	5° 9	14°15	3°34	3° 2	9°35	14°41	S 5
S 6	1 2 19	13°39'40	9♂ 1	27°12	19°46	17°57	12° 0	9° 2	1°49	5°10	14°14	3°D33	2°59	9°42	14°39	S 6
M 7	1 6 15	14°38'49	23° 9	26°25	20°58	18°34	12°D 0	9° 1	1°49	5°11	14°13	3°33	2°56	9°48	14°36	M 7
T 8	1 10 12	15°38'01	7♂25	25°32	22°10	19°12	12° 0	9° 1	1°48	5°12	14°12	3°34	2°53	9°55	14°34	T 8
W 9	1 14 9	16°37'15	21°48	24°32	23°22	19°50	12° 1	9° 0	1°48	5°13	14°11	3°35	2°50	10° 2	14°31	W 9
T 10	1 18 5	17°36'32	6♂14	23°27	24°34	20°28	12° 1	9° 0	1°48	5°14	14°10	3°36	2°47	10° 8	14°29	T 10
F 11	1 22 2	18°35'50	20°39	22°18	25°46	21° 6	12° 2	9° 0	1°D48	5°15	14° 8	3°37	2°43	10°15	14°26	F 11
S 12	1 25 58	19°35'11	4♂58	21° 6	26°58	21°44	12° 3	9° 0	1°48	5°16	14° 7	3°R37	2°40	10°22	14°24	S 12
S 13	1 29 55	20°34'34	19° 5	19°54	28°10	22°22	12° 4	9°D 0	1°48	5°17	14° 6	3°37	2°37	10°28	14°21	S 13
M14	1 33 51	21°33'59	2♂58	18°44	29°21	23° 1	12° 5	9° 0	1°49	5°18	14° 5	3°35	2°34	10°35	14°18	M14
T 15	1 37 48	22°33'26	16°32	17°38	0♂33	23°40	12° 6	9° 0	1°49	5°19	14° 4	3°33	2°31	10°42	14°16	T 15
W16	1 41 44	23°32'55	29°45	16°37	1°45	24°19	12° 8	9° 0	1°49	5°19	14° 3	3°30	2°28	10°49	14°13	W16
T 17	1 45 41	24°32'26	12♂38	15°43	2°56	24°58	12°10	9° 1	1°49	5°20	14° 2	3°27	2°24	10°55	14°10	T 17
F 18	1 49 38	25°31'59	25°11	14°58	4° 8	25°37	12°12	9° 1	1°50	5°21	14° 0	3°24	2°21	11° 2	14° 7	F 18
S 19	1 53 34	26°31'33	7♂28	14°23	5°20	26°17	12°14	9° 2	1°50	5°21	13°59	3°22	2°18	11° 9	14° 5	S 19
S 20	1 57 31	27°31'09	19°32	13°59	6°31	26°56	12°17	9° 3	1°51	5°22	13°58	3°20	2°15	11°15	14° 2	S 20
M21	2 1 27	28°30'47	1♂27	13°47	7°43	27°36	12°19	9° 3	1°51	5°23	13°57	3°D20	2°12	11°22	13°59	M21
T 22	2 5 24	29°30'27	13°18	13°D45	8°54	28°16	12°22	9° 4	1°52	5°23	13°56	3°21	2° 8	11°29	13°56	T 22
W23	2 9 20	0♂30'08	25°10	13°54	10° 5	28°56	12°25	9° 5	1°52	5°24	13°55	3°22	2° 5	11°35	13°53	W23
T 24	2 13 17	1°29'52	7♂ 8	14°14	11°17	29°36	12°28	9° 6	1°53	5°24	13°54	3°24	2° 2	11°42	13°50	T 24
F 25	2 17 13	2°29'36	19°17	14°44	12°28	0♂16	12°32	9° 8	1°54	5°25	13°53	3°26	1°59	11°49	13°48	F 25
S 26	2 21 10	3°29'23	1°Y39	15°24	13°39	0°57	12°35	9° 9	1°54	5°25	13°51	3°R26	1°56	11°55	13°45	S 26
S 27	2 25 7	4°29'11	14°17	16°11	14°50	1°37	12°39	9°10	1°55	5°25	13°50	3°26	1°53	12° 2	13°42	S 27
M28	2 29 3	5°29'01	27°14	17° 6	16° 1	2°18	12°43	9°12	1°56	5°26	13°49	3°24	1°49	12° 9	13°39	M28
T 29	2 33 0	6°28'54	10♂29	18° 8	17°12	2°58	12°47	9°13	1°57	5°26	13°48	3°20	1°46	12°16	13°36	T 29
W30	2 36 56	7°28'48	24° 1	19°15	18°23	3°39	12°51	9°15	1°58	5°26	13°47	3°15	1°43	12°22	13°33	W30
T 31	2 40 53	8♂28'44	7♂47	20♂28	19♂34	4♂20	12♂56	9♂17	1♂59	5♂27	13°Y46	3°Y10	1°Y40	12♂29	13♂30	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	3s28	14n15	2n28	14s37	3s42	16s33	0s37	25s32	2s57	18s 5	0s57	18s50	0s53	20s20	0s36	18n43
W 2	3 51	19 28	3 27	14 33	3 40	16 58	0 41	25 26	2 55	18 6	0 57	18 50	0 53	20 20	0 36	18 43
T 3	4 14	23 50	4 17	14 25	3 37	17 22	0 44	25 20	2 54	18 6	0 57	18 50	0 53	20 20	0 36	18 43
F 4	4 37	26 58	4 53	14 12	3 33	17 46	0 47	25 14	2 52	18 6	0 57	18 51	0 53	20 20	0 36	18 42
S 5	5 0	28 33	5 13	13 56	3 27	18 9	0 50	25 7	2 50	18 6	0 57	18 51	0 53	20 20	0 36	18 42
S 6	5 23	28 22	5 15	13 35	3 20	18 32	0 54	25 1	2 49	18 6	0 57	18 51	0 53	20 20	0 36	18 42
M 7	5 46	26 21	4 58	13 9	3 10	18 54	0 57	24 54	2 47	18 6	0 57	18 51	0 53	20 20	0 36	18 41
T 8	6 9	22 39	4 23	12 39	2 59	19 16	1 0	24 47	2 45	18 6	0 57	18 51	0 53	20 20	0 36	18 41
W 9	6 32	17 34	3 31	12 5	2 46	19 38	1 3	24 40	2 44	18 6	0 57	18 51	0 53	20 20	0 36	18 41
T 10	6 55	11 29	2 26	11 26	2 31	19 59	1 6	24 33	2 42	18 6	0 57	18 51	0 53	20 20	0 36	18 41
F 11	7 17	4 48	1 11	10 45	2 14	20 19	1 10	24 25	2 41	18 5	0 57	18 51	0 53	20 20	0 36	18 41
S 12	7 40	2s 5	0s 7	10 2	1 56	20 39	1 13	24 18	2 39	18 5	0 57	18 51	0 53	20 20	0 36	18 40
S 13	8 2	8 46	1 24	9 17	1 37	20 59	1 16	24 10	2 37	18 5	0 57	18 51	0 53	20 20	0 36	18 40
M14	8 24	14 55	2 35	8 32	1 17	21 18	1 19	24 2	2 36	18 4	0 57	18 51	0 53	20 20	0 36	18 40
T 15	8 46	20 12	3 35	7 47	0 56	21 36	1 22	23 53	2 34	18 4	0 56	18 51	0 53	20 20	0 36	18 40
W16	9 8	24 21	4 22	7 5	0 36	21 54	1 25	23 45	2 32	18 3	0 56	18 51	0 53	20 20	0 36	18 40
T 17	9 30	27 10	4 54	6 25	0 16	22 11	1 28	23 36	2 31	18 3	0 56	18 51	0 53	20 20	0 36	18 39
F 18	9 52	28 32	5 11	5 50	0n 4	22 28	1 31	23 27	2 29	18 2	0 56	18 51	0 53	20 20	0 36	18 39
S 19	10 14	28 26	5 14	5 19	0 23	22 44	1 34	23 18	2 28	18 1	0 56	18 51	0 53	20 20	0 36	18 39
S 20	10 35	26 59	5 2	4 54	0 40	22 59	1 37	23 9	2 26	18 0	0 56	18 51	0 53	20 20	0 36	18 39
M21	10 57	24 20	4 38	4 34	0 56	23 14	1 40	23 0	2 24	18 0	0 56	18 50	0 53	20 19	0 36	18 39
T 22	11 18	20 40	4 1	4 21	1 10	23 28	1 43	22 50	2 23	17 59	0 56	18 50	0 53	20 19	0 36	18 39
W23	11 39	16 11	3 15	4 13	1 23	23 42	1 46	22 40	2 21	17 58	0 56	18 50	0 53	20 19	0 36	18 39
T 24	11 59	11 3	2 19	4 10	1 34	23 55	1 49	22 30	2 19	17 57	0 56	18 50	0 53	20 19	0 36	18 38
F 25	12 20	5 25	1 17	4 13	1 43	24 7	1 51	22 20	2 18	17 56	0 56	18 49	0 53	20 19	0 36	18 38
S 26	12 40	0n30	0 10	4 21	1 51	24 19	1 54	22 9	2 16	17 55	0 55	18 49	0 53	20 19	0 36	18 38
S 27	13 1	6 32	0n59	4 33	1 57	24 30	1 57	21 59	2 15	17 54	0 55	18 49	0 53	20 18	0 36	18 38
M28	13 21	12 27	2 6	4 50	2 2	24 41	1 59	21 48	2 13	17 52	0 55	18 48	0 53	20 18	0 36	18 38
T 29	13 41	17 56	3 8	5 10	2 6	24 50	2 2	21 37	2 11	17 51	0 55	18 48	0 53	20 18	0 36	18 38
W30	14 0	22 39	4 1	5 34	2 8	24 59	2 4	21 26	2 10	17 50	0 55	18 47	0 53	20 18	0 36	18 38
T 31	14s20	26n13	4n41	6s 0	2n 9	25s 8	2s 7	21s15	2s 8	17s48	0s55	18s47	0s53	20s17	0s36	18n38

Julian Day Number = 2481038.5, Delta T = 85.00 sec  
Ecliptic obliquity = 23°25'53, Nutation = - 0°00'02, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 25°52'06, Lahiri = 24°59'07

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

NOVEMBER 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 44 49	9♐28'42	21♐44	21♐45	20♐45	5♐1	13♐1	9♐19	2♐0	5♐27	13♐45	3♐4	1♐37	12♐36	13♐27	F 1
S 2	2 48 46	10°28'43	5♐49	23° 5	21°56	5°42	13° 5	9°21	2° 1	5°27	13°44	2°59	1°34	12°42	13♐24	S 2
S 3	2 52 42	11°28'45	19°59	24°29	23° 7	6°24	13°10	9°23	2° 2	5°27	13°43	2°55	1°30	12°49	13°21	S 3
M 4	2 56 39	12°28'50	4♐9	25°56	24°17	7° 5	13°16	9°25	2° 3	5°27	13°42	2°53	1°27	12°56	13°18	M 4
T 5	3 0 36	13°28'57	18°18	27°24	25°28	7°47	13°21	9°27	2° 5	5°27	13°41	2°53	1°24	13° 2	13°15	T 5
W 6	3 4 32	14°29'06	2♐25	28°55	26°38	8°28	13°27	9°30	2° 6	5°27	13°40	2°54	1°21	13° 9	13°12	W 6
T 7	3 8 29	15°29'17	16°28	0♐27	27°49	9°10	13°32	9°32	2° 7	5°R27	13°39	2°56	1°18	13°16	13° 9	T 7
F 8	3 12 25	16°29'30	0♐25	2° 0	28°59	9°52	13°38	9°35	2° 9	5°27	13°38	2°R56	1°14	13°22	13° 6	F 8
S 9	3 16 22	17°29'45	14°16	3°34	0♐9	10°33	13°44	9°38	2°10	5°27	13°37	2°56	1°11	13°29	13° 3	S 9
S 10	3 20 18	18°30'01	27°58	5° 9	1°19	11°15	13°51	9°40	2°12	5°27	13°36	2°53	1° 8	13°36	13° 0	S 10
M11	3 24 15	19°30'20	11♐29	6°44	2°30	11°57	13°57	9°43	2°13	5°27	13°35	2°48	1° 5	13°43	12°57	M11
T 12	3 28 11	20°30'41	24°46	8°20	3°40	12°40	14° 3	9°46	2°15	5°27	13°34	2°41	1° 2	13°49	12°54	T 12
W13	3 32 8	21°31'03	7♐48	9°56	4°49	13°22	14°10	9°49	2°17	5°27	13°34	2°32	0°59	13°56	12°52	W13
T 14	3 36 5	22°31'27	20°34	11°32	5°59	14° 4	14°17	9°52	2°18	5°26	13°33	2°23	0°55	14° 3	12°49	T 14
F 15	3 40 1	23°31'53	3♐4	13° 8	7° 9	14°46	14°24	9°55	2°20	5°26	13°32	2°14	0°52	14° 9	12°46	F 15
S 16	3 43 58	24°32'20	15°19	14°44	8°19	15°29	14°31	9°59	2°22	5°26	13°31	2° 6	0°49	14°16	12°43	S 16
S 17	3 47 54	25°32'48	27°22	16°20	9°28	16°11	14°39	10° 2	2°24	5°26	13°30	1°59	0°46	14°23	12°40	S 17
M18	3 51 51	26°33'18	9♐16	17°57	10°38	16°54	14°46	10° 6	2°25	5°25	13°29	1°55	0°43	14°29	12°37	M18
T 19	3 55 47	27°33'48	21° 6	19°33	11°47	17°36	14°54	10° 9	2°27	5°25	13°29	1°53	0°40	14°36	12°34	T 19
W20	3 59 44	28°34'21	2♐56	21° 9	12°56	18°19	15° 2	10°13	2°29	5°24	13°28	1°D53	0°36	14°43	12°31	W20
T 21	4 3 40	29°34'54	14°53	22°45	14° 5	19° 2	15°10	10°17	2°31	5°24	13°27	1°54	0°33	14°49	12°29	T 21
F 22	4 7 37	0♐35'28	27° 1	24°20	15°14	19°45	15°18	10°21	2°33	5°23	13°26	1°R55	0°30	14°56	12°26	F 22
S 23	4 11 34	1°36'04	9♐26	25°56	16°23	20°27	15°26	10°24	2°35	5°23	13°26	1°55	0°27	15° 3	12°23	S 23
S 24	4 15 30	2°36'41	22°11	27°31	17°32	21°10	15°35	10°28	2°38	5°22	13°25	1°53	0°24	15° 9	12°20	S 24
M25	4 19 27	3°37'19	5♐19	29° 6	18°40	21°53	15°43	10°33	2°40	5°22	13°24	1°48	0°20	15°16	12°18	M25
T 26	4 23 23	4°37'59	18°52	0♐41	19°48	22°36	15°52	10°37	2°42	5°21	13°23	1°41	0°17	15°23	12°15	T 26
W27	4 27 20	5°38'40	2♐47	2°16	20°57	23°19	16° 1	10°41	2°44	5°20	13°23	1°32	0°14	15°29	12°12	W27
T 28	4 31 16	6°39'22	17° 0	3°51	22° 5	24° 2	16°10	10°45	2°47	5°20	13°22	1°21	0°11	15°36	12°10	T 28
F 29	4 35 13	7°40'06	1♐27	5°26	23°13	24°46	16°19	10°50	2°49	5°19	13°22	1°10	0° 8	15°43	12° 7	F 29
S 30	4 39 9	8♐40'51	16°28	7♐0	24°20	25°29	16°28	10°54	2°51	5♐18	13°21	1°Y 1	0°Y 5	15°50	12♐4	S 30

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	14s39	28n14	5n 4	6s28	2n 9	25s15	2s 9	21s 3	2s 7	17s47	0s55	18s46	0s53	20s17	0s36	18n38	0s17	10s33	17s20	1n13	0n38	20s45	14n18	1s39
S 2	14 58	28 28	5 10	6 59	2 8	25 22	2 11	20 51	2 5	17 46	0 55	18 46	0 53	20 17	0 36	18 38	0 17	10 34	17 20	1 11	0 37	20 43	14 17	1 39
S 3	15 16	26 50	4 57	7 31	2 7	25 28	2 13	20 40	2 3	17 44	0 55	18 45	0 53	20 17	0 36	18 38	0 17	10 34	17 20	1 10	0 36	20 40	14 16	1 39
M 4	15 35	23 31	4 26	8 5	2 4	25 34	2 16	20 28	2 2	17 42	0 55	18 44	0 53	20 16	0 36	18 38	0 17	10 34	17 20	1 9	0 35	20 38	14 15	1 39
T 5	15 53	18 48	3 38	8 39	2 1	25 39	2 18	20 15	2 0	17 41	0 55	18 44	0 53	20 16	0 36	18 38	0 17	10 34	17 19	1 9	0 33	20 35	14 14	1 39
W 6	16 11	13 4	2 38	9 15	1 58	25 43	2 20	20 3	1 59	17 39	0 55	18 43	0 53	20 16	0 35	18 38	0 17	10 34	17 19	1 9	0 32	20 33	14 13	1 39
T 7	16 28	6 42	1 28	9 51	1 54	25 46	2 22	19 50	1 57	17 37	0 54	18 43	0 53	20 15	0 35	18 38	0 17	10 35	17 19	1 10	0 31	20 30	14 12	1 39
F 8	16 46	0 2	0 14	10 27	1 49	25 49	2 23	19 38	1 56	17 36	0 54	18 42	0 53	20 15	0 35	18 38	0 17	10 35	17 19	1 10	0 30	20 28	14 11	1 39
S 9	17 3	6s34	1s 1	11 4	1 44	25 51	2 25	19 25	1 54	17 34	0 54	18 41	0 53	20 15	0 35	18 38	0 17	10 35	17 19	1 10	0 28	20 25	14 10	1 39
S 10	17 20	12 47	2 11	11 41	1 39	25 52	2 27	19 12	1 53	17 32	0 54	18 40	0 53	20 14	0 35	18 38	0 17	10 35	17 18	1 9	0 27	20 23	14 9	1 39
M11	17 36	18 19	3 13	12 18	1 33	25 53	2 28	18 59	1 51	17 30	0 54	18 40	0 53	20 14	0 35	18 38	0 17	10 35	17 18	1 7	0 26	20 20	14 8	1 39
T 12	17 52	22 52	4 2	12 54	1 27	25 52	2 30	18 45	1 49	17 28	0 54	18 39	0 53	20 14	0 35	18 38	0 17	10 35	17 18	1 4	0 25	20 17	14 8	1 40
W13	18 8	26 11	4 39	13 30	1 21	25 52	2 31	18 32	1 48	17 26	0 54	18 38	0 53	20 13	0 35	18 38	0 17	10 35	17 18	1 1	0 23	20 15	14 7	1 40
T 14	18 24	28 5	5 0	14 6	1 15	25 50	2 32	18 18	1 46	17 24	0 54	18 37	0 53	20 13	0 35	18 38	0 17	10 36	17 18	0 57	0 22	20 12	14 6	1 40
F 15	18 39	28 30	5 6	14 41	1 8	25 48	2 34	18 4	1 45	17 22	0 54	18 36	0 53	20 12	0 35	18 38	0 17	10 36	17 17	0 53	0 21	20 10	14 5	1 40
S 16	18 54	27 29	4 58	15 16	1 2	25 45	2 35	17 50	1 43	17 20	0 54	18 35	0 53	20 12	0 35	18 38	0 17	10 36	17 17	0 50	0 20	20 7	14 4	1 40
S 17	19 8	25 12	4 37	15 50	0 55	25 41	2 36	17 36	1 42	17 17	0 54	18 34	0 53	20 11	0 35	18 38	0 17	10 36	17 17	0 47	0 18	20 5	14 3	1 40
M18	19 23	21 51	4 4	16 24	0 48	25 36	2 36	17 22	1 40	17 15	0 54	18 33	0 53	20 11	0 35	18 38	0 17	10 36	17 17	0 46	0 17	20 2	14 2	1 40
T 19	19 37	17 38	3 21	16 57	0 41	25 31	2 37	17 7	1 39	17 13	0 53	18 32	0 53	20 11	0 35	18 38	0 17	10 36	17 16	0 45	0 16	20 0	14 1	1 40
W20	19 50	12 44	2 29	17 29	0 35	25 25	2 38	16 52	1 37	17 10	0 53	18 31	0 53	20 10	0 35	18 38	0 17	10 36	17 16	0 45	0 14	19 57	14 0	1 40
T 21	20 3	7 20	1 30	18 0	0 28	25 19	2 38	16 38	1 36	17 8	0 53	18 30	0 53	20 10	0 35	18 39	0 17	10 36	17 16	0 45	0 13	19 54	13 59	1 40
F 22	20 16	1 35	0 26	18 31	0 21	25 12	2 39	16 23	1 34	17 5	0 53	18 29	0 53	20 9	0 35	18 39	0 17	10 36	17 15	0 46	0 12	19 52	13 58	1 40
S 23	20 28	4n21	0n40	19 0	0 14	25 4	2 39	16 8	1 33	17 3	0 53	18 28	0 53	20 9	0 35	18 39	0 17	10 36	17 15	0 46	0 11	19 49	13 57	1 40
S 24	20 41	10 16	1 46	19 29	0 7	24 55	2 39	15 53	1 31	17 0	0 53	18 27	0 53	20 8	0 35	18 39	0 17	10 36	17 15	0 45	0 9	19 47	13 57	1 40
M25	20 52	15 56	2 48	19 57	0 0	24 46	2 40	15 37	1 30	16 58	0 53	18 26	0 53	20 8	0 35	18 39	0 17	10 36	17 15	0 43	0 8	19 44	13 56	1 40
T 26	21 3	21 0	3 43	20 24	0s 7	24 36	2 39	15 22	1 28	16 55	0 53	18 25	0 53	20 7	0 35	18 39	0 17	10 36	17 14	0 40	0 7	19 41	13 55	1 40
W27	21 14	25 3	4 26	20 49	0 13	24 25	2 39	15 6	1 27	16 52	0 53	18 24	0 53	20 7	0 35	18 39	0 17	10 36	17 14	0 36	0 6	19 39	13 54	1 40
T 28	21 25	27 39	4 53	21 14	0 20	24 14	2 39	14 51	1 25	16 50	0 53	18 23	0 53	20 6	0 35	18 40	0 17	10 36	17 14	0 32	0 4	19 36	13 53	1 40
F 29	21 35	28 28	5 2	21 38	0 26	24 2	2 39	14 35	1 24	16 47	0 53	18 21	0 53	20 5	0 35	18 40	0 17	10 36	17 13	0 28	0 3	19 34	13 52	1 40
S 30	21s45	27n18	4n52	22s 1	0s33	23s50	2s38	14s19	1s23	16s44	0s53	18s20	0s53	20s 5	0s35	18n40	0s17	10s36	17s13	0n24	0n 2	19s31	13n51	1s41

ASTRODIENST EPHEMERIS for the year 2080  
geocentric

DECEMBER 2080

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 43 6	9°41'37	0°02'33	8°34'34	25°38'28	26°12'12	16°37'37	10°59'59	2°54'54	5°R18	13°R20	0°R53	0°Y 1	15°56'56	12°R 2	S 1
M 2	4 47 3	10°42'25	15° 0	10° 9	26°35	26°55	16°47	11° 3	2°56	5°R17	13°Y20	0°Y48	29°X58	16° 3	11°59'59	M 2
T 3	4 50 59	11°43'14	29°16	11°43	27°43	27°38	16°56	11° 8	2°59	5°16	13°19	0°45	29°55	16°10	11°57	T 3
W 4	4 54 56	12°44'05	13°17	13°17	28°50	28°22	17° 6	11°13	3° 1	5°15	13°19	0°D45	29°52	16°16	11°54	W 4
T 5	4 58 52	13°44'57	27°12	14°52	29°56	29° 5	17°16	11°18	3° 4	5°14	13°18	0°R45	29°49	16°23	11°52	T 5
F 6	5 2 49	14°45'50	10°51	16°26	1°33	29°48	17°26	11°23	3° 6	5°13	13°18	0°45	29°46	16°30	11°49	F 6
S 7	5 6 45	15°46'45	24°19	18° 0	2°10	0°X32	17°36	11°28	3° 9	5°12	13°17	0°43	29°42	16°36	11°47	S 7
S 8	5 10 42	16°47'41	7°36	19°34	3°16	1°15	17°46	11°33	3°12	5°11	13°17	0°38	29°39	16°43	11°45	S 8
M 9	5 14 38	17°48'39	20°42	21° 8	4°22	1°59	17°56	11°38	3°14	5°10	13°17	0°30	29°36	16°50	11°43	M 9
T 10	5 18 35	18°49'37	3°38	22°42	5°28	2°42	18° 7	11°43	3°17	5° 9	13°16	0°19	29°33	16°56	11°40	T 10
W 11	5 22 32	19°50'37	16°23	24°17	6°33	3°26	18°17	11°48	3°20	5° 8	13°16	0° 6	29°30	17° 3	11°38	W 11
T 12	5 26 28	20°51'37	28°55	25°51	7°39	4° 9	18°28	11°54	3°23	5° 7	13°15	29°X52	29°26	17°10	11°36	T 12
F 13	5 30 25	21°52'38	11°31	27°26	8°44	4°53	18°39	11°59	3°25	5° 6	13°15	29°38	29°23	17°16	11°34	F 13
S 14	5 34 21	22°53'40	23°25	29° 0	9°48	5°37	18°50	12° 4	3°28	5° 5	13°15	29°25	29°20	17°23	11°32	S 14
S 15	5 38 18	23°54'43	5°24	0°35	10°53	6°20	19° 1	12°10	3°31	5° 4	13°15	29°14	29°17	17°30	11°30	S 15
M 16	5 42 14	24°55'46	17°16	2° 9	11°57	7° 4	19°12	12°16	3°34	5° 2	13°14	29° 6	29°14	17°36	11°28	M 16
T 17	5 46 11	25°56'49	29° 3	3°44	13° 1	7°48	19°23	12°21	3°37	5° 1	13°14	29° 1	29°11	17°43	11°26	T 17
W 18	5 50 8	26°57'53	10°X52	5°19	14° 5	8°31	19°34	12°27	3°40	5° 0	13°14	28°59	29° 7	17°50	11°24	W 18
T 19	5 54 4	27°58'57	22°45	6°54	15° 8	9°15	19°46	12°33	3°43	4°59	13°14	28°58	29° 4	17°57	11°22	T 19
F 20	5 58 1	29° 0'02	4°Y50	8°29	16°11	9°59	19°57	12°38	3°46	4°57	13°13	28°58	29° 1	18° 3	11°20	F 20
S 21	6 1 57	0°31'07	17°12	10° 4	17°14	10°42	20° 9	12°44	3°49	4°56	13°13	28°58	28°58	18°10	11°19	S 21
S 22	6 5 54	1° 2'12	29°55	11°39	18°16	11°26	20°21	12°50	3°52	4°55	13°13	28°55	28°55	18°17	11°17	S 22
M 23	6 9 50	2° 3'18	13°X 4	13°14	19°18	12°10	20°32	12°56	3°55	4°53	13°13	28°50	28°52	18°23	11°15	M 23
T 24	6 13 47	3° 4'23	26°42	14°49	20°20	12°54	20°44	13° 2	3°58	4°52	13°13	28°43	28°48	18°30	11°14	T 24
W 25	6 17 43	4° 5'29	10°II48	16°23	21°21	13°37	20°56	13° 8	4° 1	4°51	13°13	28°33	28°45	18°37	11°12	W 25
T 26	6 21 40	5° 6'36	25°19	17°58	22°22	14°21	21° 8	13°15	4° 5	4°49	13°13	28°21	28°42	18°43	11°11	T 26
F 27	6 25 37	6° 7'42	10°X 8	19°33	23°22	15° 5	21°20	13°21	4° 8	4°48	13°D13	28° 9	28°39	18°50	11° 9	F 27
S 28	6 29 33	7° 8'49	25° 8	21° 7	24°22	15°49	21°33	13°27	4°11	4°46	13°13	27°58	28°36	18°57	11° 8	S 28
S 29	6 33 30	8° 9'57	10°R 7	22°40	25°22	16°32	21°45	13°33	4°14	4°45	13°13	27°49	28°32	19° 3	11° 7	S 29
M 30	6 37 26	9°11'04	24°57	24°14	26°21	17°16	21°57	13°40	4°18	4°44	13°13	27°43	28°29	19°10	11° 6	M 30
T 31	6 41 23	10°12'12	9°II33	25°346	27°19	18°X 0	22°10	13°46	4°21	4°42	13°Y13	27°X39	28°X26	19°17	11°X 4	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s54	24n18	4n23	22s22	0s39	23s37	2s37	14s 3	1s21	16s41	0s53	18s19	0s53	20s 4	0s35	18n40	0s17	10s36	17s13	0n21	0n 1	19s28	13n51	1s41					
M 2	22 3	19 48	3 38	22 43	0 46	23 24	2 37	13 47	1 20	16 38	0 53	18 18	0 53	20 4	0 35	18 40	0 17	10 36	17 13	0 19	0s 1	19 26	13 50	1 41					
T 3	22 11	14 12	2 39	23 2	0 52	23 9	2 36	13 31	1 18	16 35	0 53	18 16	0 53	20 3	0 35	18 40	0 17	10 36	17 12	0 18	0 2	19 23	13 49	1 41					
W 4	22 19	7 57	1 31	23 20	0 58	22 55	2 35	13 14	1 17	16 32	0 52	18 15	0 53	20 3	0 35	18 41	0 17	10 36	17 12	0 18	0 3	19 21	13 48	1 41					
T 5	22 27	1 24	0 19	23 37	1 4	22 39	2 33	12 58	1 15	16 29	0 52	18 14	0 53	20 2	0 35	18 41	0 17	10 35	17 12	0 18	0 4	19 18	13 48	1 41					
F 6	22 34	5s 7	0s53	23 53	1 9	22 23	2 32	12 41	1 14	16 26	0 52	18 12	0 53	20 1	0 35	18 41	0 17	10 35	17 11	0 18	0 6	19 15	13 47	1 41					
S 7	22 40	11 18	2 1	24 8	1 15	22 7	2 31	12 25	1 13	16 23	0 52	18 11	0 53	20 1	0 35	18 41	0 17	10 35	17 11	0 17	0 7	19 13	13 46	1 41					
S 8	22 47	16 54	3 2	24 21	1 20	21 50	2 29	12 8	1 11	16 20	0 52	18 9	0 53	20 0	0 35	18 42	0 17	10 35	17 11	0 15	0 8	19 10	13 45	1 41					
M 9	22 52	21 38	3 51	24 33	1 25	21 33	2 27	11 51	1 10	16 17	0 52	18 8	0 53	19 59	0 35	18 42	0 17	10 35	17 10	0 12	0 10	19 7	13 45	1 41					
T 10	22 58	25 16	4 28	24 44	1 30	21 15	2 25	11 34	1 8	16 13	0 52	18 7	0 53	19 59	0 35	18 42	0 17	10 35	17 10	0 8	0 11	19 5	13 44	1 41					
W 11	23 3	27 34	4 51	24 53	1 35	20 56	2 23	11 17	1 7	16 10	0 52	18 5	0 53	19 58	0 35	18 42	0 17	10 35	17 10	0 2	0 12	19 2	13 43	1 41					
T 12	23 7	28 25	5 0	25 1	1 40	20 37	2 21	11 0	1 6	16 7	0 52	18 4	0 53	19 57	0 35	18 43	0 17	10 34	17 9	0s 3	0 13	18 59	13 43	1 41					
F 13	23 11	27 50	4 54	25 8	1 44	20 18	2 19	10 43	1 4	16 3	0 52	18 2	0 53	19 57	0 35	18 43	0 17	10 34	17 9	0 9	0 15	18 57	13 42	1 41					
S 14	23 14	25 54	4 34	25 14	1 48	19 58	2 16	10 26	1 3	16 0	0 52	18 1	0 53	19 56	0 35	18 43	0 17	10 34	17 9	0 14	0 16	18 54	13 41	1 41					
S 15	23 17	22 50	4 3	25 18	1 52	19 38	2 13	10 8	1 2	15 56	0 52	17 59	0 53	19 55	0 35	18 43	0 17	10 34	17 8	0 18	0 17	18 51	13 41	1 41					
M 16	23 20	18 51	3 21	25 20	1 55	19 17	2 11	9 51	1 0	15 53	0 52	17 58	0 53	19 55	0 35	18 44	0 17	10 34	17 8	0 21	0 18	18 48	13 40	1 41					
T 17	23 22	14 9	2 31	25 21	1 59	18 56	2 8	9 33	0 59	15 49	0 52	17 56	0 53	19 54	0 35	18 44	0 17	10 33	17 7	0 23	0 20	18 46	13 39	1 41					
W 18	23 24	8 57	1 34	25 21	2 1	18 35	2 4	9 16	0 58	15 46	0 52	17 54	0 53	19 53	0 35	18 44	0 17	10 33	17 7	0 24	0 21	18 43	13 39	1 41					
T 19	23 25	3 23	0 33	25 19	2 4	18 13	2 1	8 58	0 56	15 42	0 52	17 53	0 53	19 53	0 35	18 45	0 17	10 33	17 7	0 25	0 22	18 40	13 38	1 41					
F 20	23 26	2n24	0n31	25 16	2 6	17 51	1 58	8 40	0 55	15 38	0 52	17 51	0 53	19 52	0 35	18 45	0 17	10 33	17 6	0 25	0 23	18 38	13 38	1 41					
S 21	23 26	8 13	1 35	25 11	2 8	17 28	1 54	8 23	0 54	15 35	0 52	17 49	0 53	19 51	0 35	18 45	0 17	10 32	17 6	0 25	0 25	18 35	13 37	1 41					
S 22	23 26	13 52	2 36	25 5	2 10	17 5	1 50	8 5	0 52	15 31	0 52	17 48	0 53	19 50	0 35	18 46	0 17	10 32	17 6	0 26	0 26	18 32	13 37	1 41					
M 23	23 25	19 6	3 30	24 57	2 11	16 42	1 46	7 47	0 51	15 27	0 52	17 46	0 53	19 50	0 35	18 46	0 17	10 32	17 5	0 28	0 27	18 29	13 36	1 41					
T 24	23 24	23 33	4 15	24 48	2 12	16 19	1 42	7 29	0 50	15 23	0 51	17 44	0 53	19 49	0 35	18 46	0 17	10 31	17 5	0 31	0 28	18 27	13 36	1 41					
W 25	23 22	26 47	4 46	24 37	2 12	15 55	1 38	7 11	0 49	15 19	0 51	17 43	0 53	19 48	0 35	18 47	0 17	10 31	17 5	0 35	0 30	18 24	13 35	1 41					
T 26	23 20	28 21	5 0	24 24	2 12	15 31	1 33	6 53	0 47	15 16	0 51	17 41	0 53	19 47	0 35	18 47	0 17	10 31	17 4	0 39	0 31	18 21	13 35	1 41					
F 27	23 17	27 56	4 54	24 11	2 11	15 7	1 28	6 35	0 46	15 12	0 51	17 39	0 53	19 47	0 35	18 47	0 17	10 30	17 4	0 44	0 32	18 19	13 34	1 41					
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