



# Astrodienst Ephemeris Tables for the year 2033

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 2033  
geocentric

JANUARY 2033

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 51	10°35'23	5°31'13	3°52'52	27°58'54	8°13'38	6°40'40	3°R 7	29°R10	15°V 4	13°49'49	27°R37	26°46'46	16°16'16	21°R32	S 1
S 2	6 47 48	11°53'34	19°31'19	5°26'28	28°58'9	9°14'6	6°53'38	3°29'29	29°II 7	15°5'13	13°51'27	27°45'25	26°43'26	16°23'16	21°B30	S 2
M 3	6 51 44	12°54'45	4°2'7	7°1'0	0°1'1	9°50'7	7°7'20	2°57'29	29°5'15	15°5'13	13°52'27	27°13'26	26°40'16	16°30'16	21°28'16	M 3
T 4	6 55 41	13°55'56	18°39'8	8°35'1	1°4'10	10°26'7	7°20'20	2°52'29	29°2'15	15°5'13	13°54'27	27°3'26	26°37'16	16°36'16	21°27'16	T 4
W 5	6 59 37	14°57'06	3°11'15	10°11'2	2°6'11	11°2'7	7°34'24	2°47'29	29°0'15	15°6'13	13°56'26	26°55'26	26°33'16	16°43'16	21°25'16	W 5
T 6	7 3 34	15°58'17	17°44'11	11°46'3	3°9'11	11°38'7	7°48'24	2°42'28	28°57'15	15°6'13	13°57'26	26°49'26	26°30'16	16°50'16	21°24'16	T 6
F 7	7 7 31	16°59'27	2°1'13	13°22'4	4°10'12	12°14'8	8°2'20	2°38'28	28°55'15	15°6'13	13°59'26	26°47'26	26°27'16	16°56'16	21°22'16	F 7
S 8	7 11 27	18°0'36	16°5'14	14°58'5	5°12'12	12°49'8	8°15'20	2°33'28	28°52'15	15°7'14	14°1'26	26°D46	26°24'16	17°3'16	21°21'16	S 8
S 9	7 15 24	19°1'45	29°56'16	16°35'6	6°13'13	13°25'8	8°29'20	2°28'28	28°50'15	15°7'14	14°2'26	26°R46	26°21'16	17°10'16	21°19'16	S 9
M10	7 19 20	20°2'54	13°33'18	18°12'7	7°13'14	14°1'8	8°43'24	2°24'28	28°48'15	15°8'14	14°4'26	26°46'26	26°18'16	17°16'16	21°18'16	M10
T 11	7 23 17	21°4'02	26°58'19	19°50'8	8°13'14	14°36'8	8°57'20	2°19'28	28°45'15	15°8'14	14°6'26	26°43'26	26°14'16	17°23'16	21°17'16	T 11
W12	7 27 13	22°5'09	10°12'21	21°28'9	9°13'15	15°12'9	9°11'20	2°15'28	28°43'15	15°9'14	14°7'26	26°37'26	26°11'16	17°30'16	21°16'16	W12
T 13	7 31 10	23°6'17	23°16'23	23°6'10	10°12'15	15°47'9	9°25'20	2°10'28	28°41'15	15°10'14	14°9'26	26°29'26	26°8'16	17°36'16	21°15'16	T 13
F 14	7 35 6	24°7'23	6°9'24	24°45'11	11°11'16	16°23'9	9°39'20	2°6'28	28°38'15	15°10'14	14°11'26	26°17'26	26°5'16	17°43'16	21°14'16	F 14
S 15	7 39 3	25°8'29	18°50'26	25°12'9	12°9'16	16°58'9	9°53'20	2°1'28	28°36'15	15°11'14	14°13'26	26°3'26	26°2'16	17°50'16	21°13'16	S 15
S 16	7 43 0	26°9'35	1°21'28	28°5'13	6'17	17°34'10	10°7'10	1°57'28	28°34'15	15°12'14	14°14'25	25°49'25	25°58'17	17°56'16	21°12'16	S 16
M17	7 46 56	27°10'40	13°39'29	29°45'14	3'18	18°9'10	10°21'10	1°53'28	28°32'15	15°12'14	14°16'25	25°35'25	25°55'18	18°3'16	21°11'16	M17
T 18	7 50 53	28°11'45	25°47'1	18°26'15	0'18	18°44'10	10°35'10	1°49'28	28°30'15	15°13'14	14°18'25	25°22'25	25°52'18	18°10'16	21°10'16	T 18
W19	7 54 49	29°12'49	7°16'3	15°56'19	20'19	19°20'10	10°49'10	1°45'28	28°28'15	15°14'14	14°20'25	25°12'25	25°49'18	18°16'16	21°10'16	W19
T 20	7 58 46	0°13'53	19°37'4	4°49'16	51'19	19°55'11	11°3'14	1°40'28	28°25'15	15°15'14	14°21'25	25°4'25	25°46'18	18°23'16	21°9'16	T 20
F 21	8 2 42	1°14'56	1°25'6	6°32'17	46'20	20°30'11	11°18'10	1°36'28	28°23'15	15°16'14	14°23'25	25°0'25	25°43'18	18°30'16	21°8'16	F 21
S 22	8 6 39	2°15'59	13°13'8	8°14'18	40'21	21°5'11	11°32'10	1°33'28	28°21'15	15°17'14	14°25'24	24°58'25	25°39'25	18°36'16	21°8'16	S 22
S 23	8 10 35	3°17'01	25°7'9	9°58'19	33'21	21°40'11	11°46'10	1°29'28	28°19'15	15°18'14	14°27'24	24°D58	25°36'18	18°43'16	21°7'16	S 23
M24	8 14 32	4°18'03	7°12'11	11°41'20	26'22	22°15'12	12°0'10	1°25'28	28°17'15	15°19'14	14°29'24	24°R58	25°33'18	18°50'16	21°7'16	M24
T 25	8 18 29	5°19'05	19°34'13	25'21	17'22	22°50'12	12°14'10	1°21'28	28°16'15	15°20'14	14°30'24	24°57'25	25°30'18	18°56'16	21°7'16	T 25
W26	8 22 25	6°20'06	2°17'15	9'22	9'22	23°25'12	12°29'10	1°18'28	28°14'15	15°21'14	14°32'24	24°54'25	25°27'19	19°3'16	21°6'16	W26
T 27	8 26 22	7°21'07	15°27'16	53'22	59'24	24°0'12	12°43'10	1°14'28	28°12'15	15°22'14	14°34'24	24°49'25	25°24'19	19°10'16	21°6'16	T 27
F 28	8 30 18	8°22'07	29°5'18	37'23	48'24	24°34'12	12°57'10	1°11'28	28°10'15	15°23'14	14°36'24	24°42'25	25°20'19	19°17'16	21°6'16	F 28
S 29	8 34 15	9°23'06	13°12'20	22'24	37'25	25°9'13	13°11'10	1°7'28	28°8'15	15°24'14	14°38'24	24°32'25	25°17'19	19°23'21	21°D 6	S 29
S 30	8 38 11	10°24'05	27°44'22	5'25	25'25	25°44'13	13°26'10	1°4'28	28°7'15	15°25'14	14°39'24	24°20'25	25°14'19	19°30'21	21°6'16	S 30
M31	8 42 8	11°25'02	12°35'23	49'26	12'26	26°18'13	13°40'10	1°1'28	28°II 5	15°V 26	14°41'24	24°49'25	25°11'19	19°16'37	21°B 6	M31

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	22s59	18s41	4n39	24s32	1s 9	13s29	1s22	13s19	1n 7	19s 9	0s34	22n27	0s57	23n39	0n13	4n27	1s36	23s20	6s58	10s37	10s19	2n20	15n14	3s 0			
S 2	22 54	17 5	4 58	24 34	1 15	13 2	1 17	13 31	1 7	19 6	0 34	22 27	0 57	23 39	0 13	4 28	1 36	23 20	6 58	10 33	10 18	2 18	15 14	3 0			
M 3	22 48	14 24	4 59	24 35	1 20	12 36	1 13	13 42	1 7	19 2	0 34	22 27	0 57	23 39	0 13	4 28	1 36	23 19	6 58	10 29	10 17	2 16	15 13	3 0			
T 4	22 42	10 47	4 40	24 34	1 25	12 9	1 8	13 54	1 7	18 59	0 34	22 27	0 57	23 39	0 13	4 28	1 36	23 19	6 58	10 25	10 16	2 14	15 13	3 0			
W 5	22 36	6 32	4 3	24 32	1 30	11 42	1 3	14 5	1 6	18 56	0 34	22 27	0 57	23 39	0 13	4 28	1 36	23 18	6 58	10 22	10 14	2 12	15 13	3 0			
T 6	22 29	1 55	3 11	24 29	1 34	11 15	0 58	14 16	1 6	18 52	0 34	22 28	0 57	23 39	0 13	4 28	1 36	23 18	6 58	10 20	10 13	2 10	15 12	3 0			
F 7	22 21	2n45	2 7	24 24	1 39	10 48	0 53	14 28	1 6	18 49	0 34	22 28	0 57	23 39	0 13	4 28	1 36	23 17	6 58	10 19	10 12	2 8	15 12	3 0			
S 8	22 13	7 12	0 56	24 17	1 43	10 21	0 48	14 39	1 5	18 45	0 34	22 28	0 56	23 39	0 13	4 29	1 36	23 17	6 58	10 19	10 11	2 6	15 12	3 0			
S 9	22 5	11 11	0s17	24 10	1 46	9 53	0 42	14 50	1 5	18 41	0 34	22 28	0 56	23 39	0 13	4 29	1 36	23 16	6 58	10 19	10 10	2 4	15 12	3 0			
M10	21 56	14 31	1 28	24 0	1 50	9 25	0 37	15 0	1 5	18 38	0 35	22 29	0 56	23 39	0 13	4 29	1 36	23 16	6 58	10 19	10 9	2 2	15 11	3 0			
T 11	21 47	17 0	2 32	23 50	1 53	8 58	0 31	15 11	1 5	18 34	0 35	22 29	0 56	23 39	0 13	4 29	1 36	23 15	6 58	10 18	10 8	2 0	15 11	3 0			
W12	21 37	18 33	3 28	23 38	1 56	8 30	0 25	15 22	1 4	18 31	0 35	22 29	0 56	23 39	0 13	4 30	1 36	23 14	6 58	10 16	10 6	1 58	15 11	2 59			
T 13	21 27	19 4	4 12	23 24	1 58	8 2	0 19	15 33	1 4	18 27	0 35	22 29	0 56	23 39	0 13	4 30	1 36	23 14	6 58	10 13	10 5	1 56	15 11	2 59			
F 14	21 17	18 36	4 42	23 9	2 0	7 34	0 12	15 43	1 4	18 23	0 35	22 29	0 56	23 39	0 13	4 30	1 36	23 13	6 58	10 9	10 4	1 54	15 11	2 59			
S 15	21 6	17 12	4 57	22 52	2 2	7 6	0 6	15 53	1 3	18 20	0 35	22 30	0 55	23 39	0 13	4 31	1 36	23 13	6 58	10 4	10 3	1 52	15 10	2 59			
S 16	20 55	15 0	4 58	22 34	2 4	6 38	0n 1	16 4	1 3	18 16	0 35	22 30	0 55	23 39	0 13	4 31	1 35	23 12	6 58	9 58	10 2	1 50	15 10	2 59			
M17	20 43	12 10	4 45	22 14	2 5	6 10	0 7	16 14	1 2	18 12	0 35	22 30	0 55	23 39	0 13	4 31	1 35	23 12	6 58	9 53	10 1	1 49	15 10	2 59			
T 18	20 31	8 51	4 19	21 52	2 6	5 41	0 14	16 24	1 2	18 8	0 35	22 30	0 55	23 39	0 13	4 32	1 35	23 11	6 58	9 49	10 0	1 47	15 10	2 59			
W19	20 19	5 13	3 42	21 30	2 6	5 13	0 21	16 34	1 2	18 5	0 35	22 30	0 55	23 39	0 13	4 32	1 35	23 11	6 58	9 45	9 58	1 45	15 10	2 59			
T 20	20 6	1 25	2 55	21 5	2 6	4 45	0 28	16 44	1 1	18 1	0 35	22 31	0 55	23 39	0 13	4 32	1 35	23 10	6 58	9 42	9 57	1 43	15 10	2 59			
F 21	19 53	2s25	2 1	20 39	2 5	4 17	0 36	16 53	1 1	17 57	0 35	22 31	0 54	23 39	0 13	4 33	1 35	23 10	6 58	9 41	9 56	1 41	15 10	2 59			
S 22	19 39	6 10	1 2	20 12	2 4	3 49	0 43	17 3	1 1	17 53	0 35	22 31	0 54	23 39	0 13	4 33	1 35	23 9	6 58	9 40	9 55	1 39	15 10	2 59			
S 23	19 25	9 42	0n 1	19 43	2 2	3 21	0 51	17 12	1 0	17 49	0 35	22 31	0 54	23 39	0 13	4 33	1 35	23 9	6 58	9 40	9 54	1 37	15 10	2 58			
M24	19 11	12 54	1 4	19 12	2 0	2 53	0 59	17 22	1 0	17 45	0 35	22 31	0 54	23 39	0 13	4 34	1 35	23 8	6 58	9 40	9 53	1 35	15 10	2 58			
T 25	18 56	15 35	2 7	18 40	1 58	2 26	1 7	17 31	0 59	17 41	0 35	22 32	0 54	23 38	0 13	4 34	1 35	23 8	6 58	9 39	9 51	1 33	15 10	2 58			
W26	18 41	17 36	3 4	18 7	1 55	1 58	1 15	17 40	0 59	17 37	0 36	22 32	0 54	23 38	0 13	4 35	1 35	23 7	6 58	9 38	9 50	1 31	15 10	2 58			
T 27	18 26	18 46	3 54	17 32	1 51	1 30	1 23	17 49	0 58	17 33	0 36	22 32	0 54	23 38	0 13	4 35	1 35	23 7	6 58	9 37	9 49	1 29	15 10	2 58			
F 28	18 10	18 53	4 32	16 56	1 46	1 3	1 32	17 58	0 58	17 30	0 36	22 32	0 53	23 38	0 13	4 36	1 35	23 6	6 58	9 34	9 48	1 27	15 10	2 58			
S 29	17 54	17 52	4 56	16 18	1 41	0 36	1 41	18 7	0 58	17 26	0 36	22 32	0 53	23 38	0 13	4 36	1 35	23 6	6 58	9 30	9 47	1 25	15 10	2 58			
S 30	17 38	15 41	5 1	15 39	1 36	0 9	1 49	18 16	0 57	17 22	0 36	22 33	0 53	23 38	0 13	4 37	1 35	23 5	6 58	9 26	9 46	1 23	15 10	2 58			
M31	17s21	12s27	4n46	14s59	1s29	0n18	1n58	18s24	0n57	17s17	0s36	22n33	0s53	23n38	0n13	4n37	1s35	23s 5	6s58	9s22	9s44	1n21	15n10	2s58			

# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

FEBRUARY 2033

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 46 4	12 <sup>25</sup> 59	27 <sup>36</sup> 36	25 <sup>31</sup> 31	26 <sup>58</sup> 58	26 <sup>53</sup> 53	13 <sup>54</sup> 54	0°R58	28°R 3	15°V27	14 <sup>43</sup> 43	23°R58	25 <sup>8</sup> 8	19 <sup>43</sup> 43	21 <sup>8</sup> 8	T 1
W 2	8 50 1	13 <sup>26</sup> 54	12 <sup>37</sup> 37	27°13	27°42	27°27	14° 9	0°55	28 <sup>II</sup> 2	15°29	14°45	23 <sup>50</sup> 50	25° 4	19°50	21° 7	W 2
T 3	8 53 58	14°27'48	27°30	28°54	28°26	28° 2	14°23	0°52	28° 0	15°30	14°47	23°45	25° 1	19°57	21° 7	T 3
F 4	8 57 54	15°28'41	12°V 7	0°X32	29° 9	28°36	14°37	0°49	27°59	15°31	14°49	23°43	24°58	20° 3	21° 7	F 4
S 5	9 1 51	16°29'32	26°25	2° 9	29°51	29°10	14°52	0°46	27°57	15°33	14°50	23°D42	24°55	20°10	21° 8	S 5
S 6	9 5 47	17°30'22	10 <sup>8</sup> 21	3°43	0°V31	29°44	15° 6	0°44	27°56	15°34	14°52	23°43	24°52	20°17	21° 8	S 6
M 7	9 9 44	18°31'10	23°57	5°15	1°10	0°X18	15°20	0°41	27°54	15°35	14°54	23°R43	24°49	20°23	21° 9	M 7
T 8	9 13 40	19°31'57	7 <sup>II</sup> 14	6°42	1°48	0°52	15°34	0°39	27°53	15°37	14°56	23°41	24°45	20°30	21° 9	T 8
W 9	9 17 37	20°32'43	20°15	8° 6	2°25	1°26	15°49	0°36	27°52	15°38	14°58	23°37	24°42	20°37	21°10	W 9
T 10	9 21 33	21°33'27	3 <sup>3</sup> 1	9°24	3° 0	2° 0	16° 3	0°34	27°50	15°40	15° 0	23°31	24°39	20°43	21°11	T 10
F 11	9 25 30	22°34'09	15°36	10°37	3°34	2°34	16°17	0°32	27°49	15°41	15° 1	23°22	24°36	20°50	21°11	F 11
S 12	9 29 27	23°34'50	28° 0	11°43	4° 6	3° 7	16°32	0°30	27°48	15°43	15° 3	23°11	24°33	20°57	21°12	S 12
S 13	9 33 23	24°35'29	10 <sup>15</sup> 15	12°43	4°37	3°41	16°46	0°28	27°47	15°44	15° 5	22°59	24°30	21° 3	21°13	S 13
M14	9 37 20	25°36'07	22°21	13°34	5° 6	4°14	17° 0	0°26	27°46	15°46	15° 7	22°48	24°26	21°10	21°14	M14
T 15	9 41 16	26°36'44	4 <sup>II</sup> 21	14°17	5°34	4°48	17°14	0°25	27°45	15°48	15° 9	22°38	24°23	21°17	21°15	T 15
W16	9 45 13	27°37'19	16°14	14°51	6° 0	5°21	17°28	0°23	27°44	15°49	15°10	22°30	24°20	21°23	21°16	W16
T 17	9 49 9	28°37'52	28° 3	15°16	6°23	5°54	17°43	0°22	27°43	15°51	15°12	22°24	24°17	21°30	21°17	T 17
F 18	9 53 6	29°38'24	9 <sup>15</sup> 15	15°30	6°46	6°27	17°57	0°20	27°42	15°53	15°14	22°21	24°14	21°37	21°19	F 18
S 19	9 57 2	0°X38'55	21°39	15°R34	7° 6	7° 0	18°11	0°19	27°41	15°54	15°16	22°D20	24°10	21°43	21°20	S 19
S 20	10 0 59	1°39'25	3 <sup>III</sup> 34	15°28	7°24	7°33	18°25	0°18	27°41	15°56	15°18	22°20	24° 7	21°50	21°21	S 20
M21	10 4 56	2°39'53	15°38	15°11	7°40	8° 6	18°39	0°17	27°40	15°58	15°19	22°22	24° 4	21°57	21°23	M21
T 22	10 8 52	3°40'20	27°57	14°45	7°54	8°39	18°53	0°16	27°39	16° 0	15°21	22°R23	24° 1	22° 3	21°24	T 22
W23	10 12 49	4°40'45	10 <sup>14</sup> 14	14°10	8° 6	9°12	19° 7	0°15	27°39	16° 1	15°23	22°23	23°58	22°10	21°26	W23
T 24	10 16 45	5°41'10	23°40	13°27	8°16	9°44	19°21	0°14	27°38	16° 3	15°25	22°21	23°55	22°17	21°27	T 24
F 25	10 20 42	6°41'32	7 <sup>III</sup> 12	12°36	8°23	10°17	19°35	0°14	27°38	16° 5	15°26	22°17	23°51	22°23	21°29	F 25
S 26	10 24 38	7°41'54	21°13	11°40	8°29	10°49	19°49	0°13	27°37	16° 7	15°28	22°12	23°48	22°30	21°31	S 26
S 27	10 28 35	8°42'14	5 <sup>III</sup> 42	10°40	8°31	11°21	20° 3	0°13	27°37	16° 9	15°30	22° 5	23°45	22°37	21°32	S 27
M28	10 32 31	9°X42'32	20 <sup>III</sup> 35	9°X37	8°R32	11°X54	20 <sup>III</sup> 17	0°13	27 <sup>III</sup> 37	16°V11	15 <sup>III</sup> 31	21 <sup>III</sup> 59	23 <sup>III</sup> 42	22 <sup>III</sup> 43	21 <sup>III</sup> 34	M28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	
T 1	17s 4	8s21	4n12	14s18	1s22	0n44	2n 7	18s33	0n56	17s13	0s36	22n33	0s53	23n38	0n13	T 1
W 2	16 47	3 44	3 20	13 36	1 14	1 11	2 17	18 41	0 56	17 9	0 36	22 33	0 53	23 38	0 13	W 2
T 3	16 29	1n 4	2 15	12 53	1 6	1 37	2 26	18 49	0 55	17 5	0 36	22 33	0 52	23 38	0 13	T 3
F 4	16 11	5 44	1 1	12 10	0 57	2 2	2 36	18 57	0 55	17 1	0 36	22 34	0 52	23 38	0 13	F 4
S 5	15 53	9 58	0s14	11 26	0 46	2 28	2 45	19 5	0 54	16 57	0 36	22 34	0 52	23 38	0 13	S 5
S 6	15 35	13 32	1 27	10 42	0 36	2 53	2 55	19 13	0 54	16 53	0 36	22 34	0 52	23 38	0 13	S 6
M 7	15 16	16 16	2 34	9 57	0 24	3 18	3 5	19 21	0 53	16 49	0 37	22 34	0 52	23 38	0 13	M 7
T 8	14 57	18 3	3 30	9 14	0 12	3 42	3 15	19 28	0 52	16 45	0 37	22 34	0 51	23 38	0 13	T 8
W 9	14 38	18 51	4 14	8 31	0n 2	4 6	3 25	19 36	0 52	16 41	0 37	22 35	0 51	23 38	0 13	W 9
T 10	14 19	18 39	4 45	7 48	0 15	4 29	3 36	19 43	0 51	16 36	0 37	22 35	0 51	23 38	0 13	T 10
F 11	13 59	17 32	5 1	7 8	0 30	4 53	3 46	19 50	0 51	16 32	0 37	22 35	0 51	23 38	0 13	F 11
S 12	13 39	15 36	5 3	6 29	0 45	5 15	3 57	19 57	0 50	16 28	0 37	22 35	0 51	23 38	0 13	S 12
S 13	13 19	13 0	4 50	5 52	1 0	5 37	4 7	20 4	0 50	16 24	0 37	22 35	0 51	23 38	0 13	S 13
M14	12 59	9 52	4 25	5 17	1 16	5 59	4 18	20 11	0 49	16 20	0 37	22 36	0 50	23 38	0 13	M14
T 15	12 38	6 22	3 48	4 46	1 32	6 19	4 29	20 18	0 48	16 15	0 37	22 36	0 50	23 38	0 13	T 15
W16	12 18	2 39	3 1	4 18	1 48	6 40	4 40	20 24	0 48	16 11	0 37	22 36	0 50	23 38	0 13	W16
T 17	11 57	1s10	2 7	3 55	2 3	6 59	4 51	20 31	0 47	16 7	0 37	22 36	0 50	23 38	0 13	T 17
F 18	11 36	4 55	1 7	3 35	2 19	7 18	5 2	20 37	0 46	16 3	0 38	22 36	0 50	23 38	0 13	F 18
S 19	11 14	8 30	0 4	3 20	2 34	7 36	5 13	20 43	0 46	15 58	0 38	22 36	0 49	23 38	0 13	S 19
S 20	10 53	11 45	1n 0	3 9	2 48	7 54	5 24	20 50	0 45	15 54	0 38	22 37	0 49	23 38	0 13	S 20
M21	10 31	14 34	2 3	3 4	3 1	8 11	5 35	20 56	0 44	15 50	0 38	22 37	0 49	23 38	0 13	M21
T 22	10 10	16 46	3 0	3 3	3 12	8 26	5 47	21 1	0 43	15 46	0 38	22 37	0 49	23 38	0 13	T 22
W23	9 48	18 13	3 51	3 7	3 22	8 41	5 58	21 7	0 43	15 41	0 38	22 37	0 49	23 38	0 13	W23
T 24	9 25	18 46	4 32	3 16	3 30	8 55	6 9	21 13	0 42	15 37	0 38	22 37	0 49	23 38	0 13	T 24
F 25	9 3	18 16	4 59	3 29	3 37	9 8	6 19	21 18	0 41	15 33	0 38	22 38	0 48	23 38	0 13	F 25
S 26	8 41	16 40	5 9	3 47	3 41	9 20	6 30	21 24	0 40	15 28	0 38	22 38	0 48	23 38	0 13	S 26
S 27	8 18	13 59	5 1	4 8	3 43	9 31	6 41	21 29	0 40	15 24	0 39	22 38	0 48	23 38	0 13	S 27
M28	7s56	10s19	4n32	4s31	3n42	9n41	6n51	21s34	0n39	15s20	0s39	22n38	0s48	23n38	0n13	M28

Julian Day Number = 2463629.5, Delta T = 70.03 sec

Ecliptic obliquity = 23°25'58, Nutation = 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°12'09, Lahiri = 24°19'09

## ASTRODIENST EPHEMERIS for the year 2033

geocentric

MARCH 2033

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 36 28	10°42'49"	5°44'	8°R33	8°R30	12°26'	20°31'	0°R13	27°R36	16°V13	15°33'	21°R52	23°39'	22°50'	21°36'	T 1
W 2	10 40 24	11°43'04"	20°59'	7°H30	8°V25	12°57'	20°45'	0°D13	27°H36	16°14'	15°35'	21°48'	23°35'	22°57'	21°38'	W 2
T 3	10 44 21	12°43'17"	6°V9	6°29'	8°18'	13°29'	20°59'	0°S13	27°36'	16°16'	15°36'	21°45'	23°32'	23°3'	21°40'	T 3
F 4	10 48 18	13°43'28"	21°6'	5°30'	8°8'	14°1'	21°13'	0°13'	27°36'	16°18'	15°38'	21°D44	23°29'	23°10'	21°42'	F 4
S 5	10 52 14	14°43'37"	5°B42	4°36'	7°56'	14°32'	21°26'	0°13'	27°36'	16°20'	15°40'	21°44'	23°26'	23°17'	21°44'	S 5
S 6	10 56 11	15°43'44"	19°53'	3°47'	7°42'	15°4'	21°40'	0°14'	27°D36	16°22'	15°41'	21°46'	23°23'	23°23'	21°46'	S 6
M 7	11 0 7	16°43'49"	3°H39	3°4'	7°25'	15°35'	21°54'	0°14'	27°36'	16°24'	15°43'	21°47'	23°20'	23°30'	21°49'	M 7
T 8	11 4 4	17°43'52"	17°0'	2°27'	7°5'	16°6'	22°7'	0°15'	27°36'	16°26'	15°45'	21°R48	23°16'	23°37'	21°51'	T 8
W 9	11 8 0	18°43'53"	29°59'	1°57'	6°44'	16°37'	22°21'	0°16'	27°36'	16°28'	15°46'	21°47'	23°13'	23°43'	21°53'	W 9
T 10	11 11 57	19°43'51"	12°S40	1°33'	6°19'	17°8'	22°34'	0°17'	27°36'	16°31'	15°48'	21°45'	23°10'	23°50'	21°56'	T 10
F 11	11 15 53	20°43'47"	25°5'	1°16'	5°53'	17°38'	22°48'	0°18'	27°36'	16°33'	15°49'	21°41'	23°7'	23°57'	21°58'	F 11
S 12	11 19 50	21°43'41"	7°Q17	1°6'	5°25'	18°9'	23°1'	0°19'	27°37'	16°35'	15°51'	21°37'	23°4'	24°3'	22°1'	S 12
S 13	11 23 47	22°43'33"	19°21'	1°D2	4°55'	18°39'	23°15'	0°20'	27°37'	16°37'	15°52'	21°32'	23°1'	24°10'	22°3'	S 13
M14	11 27 43	23°43'23"	1°H18	1°4'	4°23'	19°9'	23°28'	0°21'	27°38'	16°39'	15°54'	21°27'	22°57'	24°17'	22°6'	M14
T 15	11 31 40	24°43'11"	13°10'	1°13'	3°49'	19°39'	23°41'	0°23'	27°38'	16°41'	15°55'	21°22'	22°54'	24°23'	22°8'	T 15
W16	11 35 36	25°42'57"	24°59'	1°26'	3°15'	20°9'	23°55'	0°24'	27°39'	16°43'	15°57'	21°18'	22°51'	24°30'	22°11'	W16
T 17	11 39 33	26°42'40"	6°B48	1°46'	2°39'	20°39'	24°8'	0°26'	27°39'	16°45'	15°58'	21°16'	22°48'	24°36'	22°14'	T 17
F 18	11 43 29	27°42'22"	18°38'	2°10'	2°2'	21°9'	24°21'	0°28'	27°40'	16°48'	16°0'	21°D15	22°45'	24°43'	22°17'	F 18
S 19	11 47 26	28°42'02"	0°M31	2°39'	1°25'	21°38'	24°34'	0°30'	27°40'	16°50'	16°1'	21°16'	22°41'	24°50'	22°19'	S 19
S 20	11 51 22	29°41'40"	12°31'	3°13'	0°47'	22°7'	24°47'	0°32'	27°41'	16°52'	16°3'	21°17'	22°38'	24°56'	22°22'	S 20
M21	11 55 19	0°V41'17"	24°41'	3°50'	0°9'	22°36'	25°0'	0°34'	27°42'	16°54'	16°4'	21°18'	22°35'	25°3'	22°25'	M21
T 22	11 59 16	1°40'51"	7°H4	4°32'	29°H31	23°5'	25°13'	0°36'	27°43'	16°56'	16°5'	21°20'	22°32'	25°10'	22°28'	T 22
W23	12 3 12	2°40'24"	19°44'	5°17'	28°54'	23°34'	25°26'	0°38'	27°44'	16°58'	16°7'	21°21'	22°29'	25°16'	22°31'	W23
T 24	12 7 9	3°39'55"	2°B44	6°6'	28°18'	24°2'	25°39'	0°41'	27°45'	17°1'	16°8'	21°R22	22°26'	25°23'	22°34'	T 24
F 25	12 11 5	4°39'24"	16°8'	6°58'	27°42'	24°31'	25°51'	0°43'	27°46'	17°3'	16°10'	21°21'	22°22'	25°30'	22°37'	F 25
S 26	12 15 2	5°38'52"	29°58'	7°53'	27°7'	24°59'	26°4'	0°46'	27°47'	17°5'	16°11'	21°20'	22°19'	25°36'	22°40'	S 26
S 27	12 18 58	6°38'18"	14°B14	8°52'	26°34'	25°27'	26°16'	0°48'	27°48'	17°7'	16°12'	21°19'	22°16'	25°43'	22°44'	S 27
M28	12 22 55	7°37'42"	28°54'	9°52'	26°2'	25°54'	26°29'	0°51'	27°49'	17°10'	16°13'	21°17'	22°13'	25°50'	22°47'	M28
T 29	12 26 51	8°37'04"	13°H53	10°56'	25°32'	26°22'	26°41'	0°54'	27°50'	17°12'	16°15'	21°15'	22°10'	25°56'	22°50'	T 29
W30	12 30 48	9°36'24"	29°2'	12°2'	25°4'	26°49'	26°54'	0°57'	27°51'	17°14'	16°16'	21°14'	22°7'	26°3'	22°53'	W30
T 31	12 34 44	10°V35'42"	14°V13	13°H10	24°H38	27°H16	27°36'	1°S0	27°H53	17°V16	16°B17	21°D14	22°3'	26°H10	22°B57	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s33	5s56	3n44	4s57	3n40	9n49	7n2	21s39	0n38	15s16	0s39	22n38	0s48	23n38	0n13	4n56
W 2	7 10	1 8	2 39	5 25	3 35	9 56	7 12	21 44	0 37	15 11	0 39	22 38	0 47	23 38	0 13	4 57
T 3	6 47	3n44	1 24	5 54	3 29	10 3	7 21	21 49	0 36	15 7	0 39	22 39	0 47	23 38	0 13	4 57
F 4	6 24	8 17	0 3	6 23	3 21	10 7	7 31	21 53	0 35	15 3	0 39	22 39	0 47	23 38	0 13	4 58
S 5	6 1	12 14	1s15	6 51	3 11	10 11	7 39	21 58	0 34	14 58	0 39	22 39	0 47	23 38	0 13	4 59
S 6	5 38	15 20	2 28	7 19	3 0	10 13	7 48	22 2	0 34	14 54	0 39	22 39	0 47	23 38	0 13	5 0
M 7	5 14	17 27	3 29	7 46	2 47	10 13	7 56	22 7	0 33	14 50	0 39	22 39	0 47	23 38	0 13	5 1
T 8	4 51	18 32	4 17	8 12	2 34	10 12	8 3	22 11	0 32	14 45	0 40	22 40	0 46	23 38	0 13	5 1
W 9	4 27	18 35	4 50	8 35	2 21	10 10	8 10	22 15	0 31	14 41	0 40	22 40	0 46	23 38	0 13	5 2
T 10	4 4	17 42	5 9	8 57	2 7	10 6	8 16	22 19	0 30	14 37	0 40	22 40	0 46	23 38	0 13	5 3
F 11	3 40	16 0	5 12	9 16	1 2	10 1	8 22	22 23	0 29	14 33	0 40	22 40	0 46	23 38	0 13	5 4
S 12	3 17	13 35	5 1	9 33	1 38	9 54	8 27	22 27	0 28	14 28	0 40	22 40	0 46	23 38	0 13	5 5
S 13	2 53	10 38	4 37	9 48	1 23	9 45	8 31	22 30	0 27	14 24	0 40	22 40	0 45	23 38	0 13	5 5
M14	2 30	7 15	4 1	10 1	1 9	9 36	8 34	22 34	0 25	14 20	0 40	22 41	0 45	23 38	0 13	5 6
T 15	2 6	3 37	3 14	10 11	0 55	9 24	8 36	22 37	0 24	14 15	0 40	22 41	0 45	23 38	0 13	5 7
W16	1 42	0s9	2 20	10 19	0 41	9 12	8 37	22 41	0 23	14 11	0 41	22 41	0 45	23 38	0 13	5 8
T 17	1 18	3 54	1 19	10 25	0 28	8 58	8 38	22 44	0 22	14 7	0 41	22 41	0 45	23 38	0 13	5 9
F 18	0 55	7 31	0 15	10 28	0 15	8 43	8 37	22 47	0 21	14 3	0 41	22 41	0 45	23 38	0 13	5 10
S 19	0 31	10 51	0n51	10 30	0 2	8 26	8 36	22 50	0 20	13 58	0 41	22 42	0 44	23 38	0 13	5 10
S 20	0 7	13 46	1 55	10 29	0s10	8 9	8 33	22 53	0 19	13 54	0 41	22 42	0 44	23 38	0 13	5 11
M21	0n16	16 7	2 54	10 26	0 22	7 51	8 30	22 56	0 17	13 50	0 41	22 42	0 44	23 38	0 13	5 12
T 22	0 40	17 45	3 47	10 22	0 33	7 32	8 25	22 59	0 16	13 46	0 41	22 42	0 44	23 38	0 13	5 13
W23	1 4	18 33	4 30	10 15	0 44	7 12	8 20	23 2	0 15	13 42	0 42	22 42	0 44	23 38	0 13	5 14
T 24	1 27	18 24	5 0	10 7	0 54	6 52	8 14	23 4	0 14	13 37	0 42	22 42	0 44	23 38	0 13	5 15
F 25	1 51	17 14	5 15	9 57	1 4	6 32	8 7	23 7	0 12	13 33	0 42	22 43	0 43	23 38	0 13	5 16
S 26	2 15	15 3	5 13	9 45	1 13	6 11	7 59	23 9	0 11	13 29	0 42	22 43	0 43	23 38	0 13	5 16
S 27	2 38	11 54	4 52	9 31	1 22	5 50	7 50	23 12	0 10	13 25	0 42	22 43	0 43	23 38	0 13	5 17
M28	3 2	7 55	4 11	9 16	1 30	5 28	7 41	23 14	0 8	13 21	0 42	22 43	0 43	23 38	0 13	5 18
T 29	3 25	3 22	3 13	8 59	1 38	5 7	7 31	23 16	0 7	13 17	0 43	22 43	0 43	23 38	0 13	5 19
W30	3 48	1n27	2 0	8 40	1 45	4 47	7 20	23 18	0 5	13 13	0 43	22 43	0 42	23 38	0 13	5 20
T 31	4n12	6n12	0n39	8s20	1s52	4n26	7n9	23s21	0n4	13s9	0s43	22n43	0s42	23n38	0n13	5n21

Julian Day Number = 2463657.5, Delta T = 70.05 sec

Ecliptic obliquity = 23°25'58", Nutation = 0°00'08", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°12'13", Lahiri = 24°19'13"



# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

MAY 2033

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 58	10°56'54	6°32'	3°22'	29°18'	8°44'	2°42'	3°21'	28°56'	18°26'	16°43'	21°R11	20°25'	29°36'	24°55'	S 1
M 2	14 40 54	11°55'10	20°34'	5°25'	29°55'	9° 0'	2°52'	3°27'	28°58'	18°28'	16°43'	21° 8	20°22'	29°43'	24°59'	M 2
T 3	14 44 51	12°53'24	4°52'	7°30'	0°Y33	9°15'	3° 1'	3°33'	29° 1'	18°30'	16°44'	21° 5	20°18'	29°49'	25° 3	T 3
W 4	14 48 47	13°51'35	17°23'	9°36'	1°13'	9°30'	3°10'	3°39'	29° 4'	18°32'	16°44'	21° 2	20°15'	29°56'	25° 7	W 4
T 5	14 52 44	14°49'45	0°11'	11°43'	1°54'	9°45'	3°18'	3°45'	29° 7'	18°34'	16°44'	21° 0	20°12'	0° 3	25°11'	T 5
F 6	14 56 40	15°47'53	12°37'	13°51'	2°35'	9°58'	3°27'	3°51'	29° 9'	18°36'	16°45'	21°D 0	20° 9	0° 9	25°16'	F 6
S 7	15 0 37	16°45'59	24°47'	16° 1'	3°18'	10°12'	3°35'	3°57'	29°12'	18°38'	16°45'	21° 0	20° 6	0°16'	25°20'	S 7
S 8	15 4 34	17°44'03	6°45'	18°10'	4° 2'	10°25'	3°44'	4° 3'	29°15'	18°40'	16°45'	21° 1	20° 3	0°23'	25°24'	S 8
M 9	15 8 30	18°42'05	18°35'	20°21'	4°46'	10°37'	3°52'	4° 9	29°18'	18°42'	16°45'	21° 3	19°59'	0°29'	25°28'	M 9
T 10	15 12 27	19°40'05	0°23'	22°31'	5°32'	10°49'	4° 0	4°16'	29°21'	18°44'	16°46'	21° 4	19°56'	0°36'	25°32'	T 10
W11	15 16 23	20°38'03	12°12'	24°42'	6°18'	11° 0	4° 8	4°22'	29°24'	18°46'	16°46'	21° 6	19°53'	0°43'	25°37'	W11
T 12	15 20 20	21°36'00	24° 7	26°52'	7° 5	11°10'	4°16'	4°28'	29°27'	18°48'	16°46'	21°R 6	19°50'	0°49'	25°41'	T 12
F 13	15 24 16	22°33'55	6°11'	29° 1	7°53'	11°20'	4°24'	4°35'	29°30'	18°50'	16°46'	21° 5	19°47'	0°56'	25°45'	F 13
S 14	15 28 13	23°31'48	18°26'	1°11'10	8°42'	11°30'	4°31'	4°41'	29°33'	18°52'	16°46'	21° 2	19°43'	1° 3	25°49'	S 14
S 15	15 32 9	24°29'40	0°53'	3°17'	9°31'	11°38'	4°38'	4°48'	29°36'	18°54'	16°46'	20°58'	19°40'	1° 9	25°54'	S 15
M16	15 36 6	25°27'31	13°33'	5°23'	10°21'	11°46'	4°46'	4°54'	29°39'	18°56'	16°46'	20°53'	19°37'	1°16'	25°58'	M16
T 17	15 40 3	26°25'20	26°28'	7°27'	11°12'	11°54'	4°53'	5° 1	29°42'	18°58'	16°46'	20°47'	19°34'	1°23'	26° 2	T 17
W18	15 43 59	27°23'08	9°35'	9°29'	12° 3	12° 1	5° 0	5° 8	29°45'	19° 0	16°R46	20°41'	19°31'	1°29'	26° 6	W18
T 19	15 47 56	28°20'54	22°56'	11°29'	12°55'	12° 7	5° 7	5°15'	29°49'	19° 2	16°46'	20°36'	19°28'	1°36'	26°11'	T 19
F 20	15 51 52	29°18'40	6°30'	13°27'	13°48'	12°12'	5°13'	5°21'	29°52'	19° 4	16°46'	20°33'	19°24'	1°42'	26°15'	F 20
S 21	15 55 49	0°16'24	20°16'	15°22'	14°41'	12°17'	5°20'	5°28'	29°55'	19° 5	16°46'	20°31'	19°21'	1°49'	26°19'	S 21
S 22	15 59 45	1°14'07	4°15'	17°14'	15°35'	12°21'	5°26'	5°35'	29°58'	19° 7	16°46'	20°D30	19°18'	1°56'	26°23'	S 22
M23	16 3 42	2°11'49	18°24'	19° 4	16°30'	12°24'	5°32'	5°42'	0° 1	19° 9	16°46'	20°31'	19°15'	2° 2	26°28'	M23
T 24	16 7 38	3° 9'30	2°Y43	20°51'	17°24'	12°27'	5°38'	5°49'	0° 5	19°11'	16°46'	20°32'	19°12'	2° 9	26°32'	T 24
W25	16 11 35	4° 7'11	17°10'	22°35'	18°20'	12°29'	5°44'	5°56'	0° 8	19°12'	16°46'	20°R33	19° 9	2°16'	26°36'	W25
T 26	16 15 31	5° 4'50	1°40'	24°16'	19°16'	12°30'	5°50'	6° 3	0°11'	19°14'	16°45'	20°33'	19° 5	2°22'	26°40'	T 26
F 27	16 19 28	6° 2'28	16°10'	25°54'	20°12'	12°R30	5°55'	6°10'	0°15'	19°16'	16°45'	20°30'	19° 2	2°29'	26°44'	F 27
S 28	16 23 25	7° 0'05	0°13'4	27°29'	21° 9	12°30'	6° 1	6°17'	0°18'	19°18'	16°45'	20°26'	18°59'	2°36'	26°49'	S 28
S 29	16 27 21	7°57'41	14°46'	29° 1	22° 6	12°29'	6° 6	6°24'	0°21'	19°19'	16°45'	20°19'	18°56'	2°42'	26°53'	S 29
M30	16 31 18	8°55'16	28°40'	0°30'3	23° 4	12°27'	6°11'	6°32'	0°25'	19°21'	16°44'	20°12'	18°53'	2°49'	26°57'	M30
T 31	16 35 14	9°15'25	12°14	1°55'	24°Y 2	12°24	6°16	6°39	0°28	19°Y22	16°44	20° 4	18°49	2°56	27° 1	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	15n 6	17n42	3s45	11n34	1s 8	0n34	0n56	24s 8	1s 0	11s16	0s49	22n46	0s38	23n39	0n13	5n47
M 2	15 24	18 35	4 32	12 24	0 59	0 41	0 46	24 10	1 2	11 13	0 49	22 46	0 37	23 39	0 13	5 47
T 3	15 42	18 20	5 2	13 14	0 50	0 48	0 37	24 12	1 5	11 10	0 49	22 46	0 37	23 39	0 13	5 48
W 4	16 0	17 6	5 15	14 3	0 40	0 55	0 29	24 13	1 8	11 7	0 49	22 46	0 37	23 39	0 13	5 49
T 5	16 17	15 2	5 11	14 52	0 30	1 4	0 20	24 15	1 11	11 4	0 50	22 46	0 37	23 39	0 13	5 50
F 6	16 34	12 19	4 53	15 41	0 19	1 13	0 12	24 17	1 14	11 1	0 50	22 46	0 37	23 39	0 13	5 51
S 7	16 50	9 8	4 22	16 29	0 9	1 22	0 4	24 19	1 17	10 58	0 50	22 46	0 37	23 39	0 13	5 51
S 8	17 7	5 37	3 40	17 16	0n 2	1 32	0s 4	24 21	1 20	10 55	0 50	22 46	0 37	23 39	0 13	5 52
M 9	17 23	1 55	2 49	18 1	0 12	1 43	0 12	24 23	1 23	10 52	0 51	22 46	0 36	23 39	0 13	5 53
T 10	17 39	1s51	1 51	18 46	0 23	1 54	0 19	24 25	1 26	10 50	0 51	22 46	0 36	23 39	0 13	5 54
W11	17 54	5 34	0 49	19 28	0 33	2 6	0 26	24 27	1 29	10 47	0 51	22 45	0 36	23 39	0 13	5 54
T 12	18 10	9 6	0n17	20 9	0 43	2 18	0 33	24 30	1 32	10 44	0 51	22 45	0 36	23 39	0 13	5 55
F 13	18 24	12 18	1 22	20 48	0 53	2 31	0 40	24 32	1 35	10 42	0 51	22 45	0 36	23 39	0 13	5 56
S 14	18 39	15 0	2 24	21 25	1 3	2 44	0 46	24 35	1 39	10 39	0 52	22 45	0 36	23 39	0 13	5 56
S 15	18 53	17 3	3 20	21 59	1 12	2 58	0 53	24 37	1 42	10 37	0 52	22 45	0 36	23 39	0 13	5 57
M16	19 7	18 19	4 8	22 31	1 21	3 12	0 59	24 40	1 46	10 34	0 52	22 45	0 36	23 39	0 13	5 58
T 17	19 21	18 39	4 44	23 1	1 29	3 26	1 5	24 43	1 49	10 32	0 52	22 45	0 35	23 39	0 13	5 58
W18	19 34	18 1	5 5	23 28	1 37	3 41	1 10	24 45	1 53	10 30	0 53	22 45	0 35	23 39	0 13	5 59
T 19	19 47	16 22	5 11	23 52	1 44	3 56	1 16	24 48	1 56	10 27	0 53	22 45	0 35	23 39	0 13	6 0
F 20	20 0	13 49	4 59	24 14	1 51	4 12	1 21	24 52	2 0	10 25	0 53	22 44	0 35	23 39	0 13	6 0
S 21	20 12	10 27	4 30	24 33	1 56	4 28	1 26	24 55	2 3	10 23	0 53	22 44	0 35	23 39	0 13	6 1
S 22	20 24	6 27	3 45	24 50	2 1	4 44	1 31	24 58	2 7	10 21	0 54	22 44	0 35	23 39	0 13	6 2
M23	20 36	2 3	2 46	25 4	2 5	5 1	1 36	25 2	2 11	10 19	0 54	22 44	0 35	23 39	0 13	6 2
T 24	20 47	2n32	1 35	25 15	2 9	5 17	1 40	25 5	2 15	10 17	0 54	22 44	0 35	23 39	0 13	6 3
W25	20 58	7 1	0 18	25 25	2 11	5 34	1 45	25 9	2 19	10 15	0 54	22 44	0 34	23 39	0 13	6 4
T 26	21 8	11 7	1s 0	25 31	2 13	5 52	1 49	25 13	2 23	10 13	0 55	22 43	0 34	23 39	0 13	6 4
F 27	21 19	14 32	2 14	25 36	2 14	6 9	1 53	25 17	2 27	10 11	0 55	22 43	0 34	23 39	0 13	6 5
S 28	21 28	17 1	3 19	25 39	2 14	6 27	1 56	25 21	2 30	10 10	0 55	22 43	0 34	23 39	0 13	6 5
S 29	21 38	18 24	4 11	25 39	2 13	6 45	2 0	25 25	2 35	10 8	0 55	22 43	0 34	23 39	0 13	6 6
M30	21 47	18 39	4 46	25 38	2 12	7 3	2 3	25 29	2 39	10 6	0 56	22 42	0 34	23 39	0 13	6 7
T 31	21n56	17n49	5s 5	25n35	2n10	7n21	2s 7	25s33	2s43	10s 5	0s56	22n42	0s34	23n39	0n13	6n 7

Julian Day Number = 2463718.5, Delta T = 70.09 sec  
 Ecliptic obliquity = 23°25'57, Nutation = 0°00'05, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 25°12'21, Lahiri = 24°19'22



# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

JUNE 2033

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 39 11	10 <sup>II</sup> 50'22	25 <sup>☾</sup> 25	3 <sup>☾</sup> 18	25 <sup>♂</sup> 0	12°R21	6 <sup>♂</sup> 21	6 <sup>☾</sup> 46	0 <sup>☾</sup> 32	19 <sup>♂</sup> 24	16°R44	19°R56	18 <sup>☾</sup> 46	3 <sup>☾</sup> 2	27 <sup>♂</sup> 5	W 1
T 2	16 43 7	11°47'53	8 <sup>☾</sup> 13	4°37	25°59	12 <sup>☾</sup> 17	6°25	6°54	0°35	19°26	16 <sup>☾</sup> 43	19 <sup>☾</sup> 50	18°43	3°9	27°10	T 2
F 3	16 47 4	12°45'23	20°41	5°53	26°58	12°12	6°30	7°1	0°39	19°27	16°43	19°45	18°40	3°16	27°14	F 3
S 4	16 51 1	13°42'52	2 <sup>☾</sup> 52	7°5	27°57	12°6	6°34	7°8	0°42	19°29	16°42	19°43	18°37	3°22	27°18	S 4
S 5	16 54 57	14°40'19	14°50	8°14	28°57	12°0	6°38	7°16	0°45	19°30	16°42	19°D42	18°34	3°29	27°22	S 5
M 6	16 58 54	15°37'45	26°41	9°20	29°57	11°53	6°42	7°23	0°49	19°32	16°41	19°42	18°30	3°36	27°26	M 6
T 7	17 2 50	16°35'10	8 <sup>☾</sup> 29	10°22	0 <sup>☾</sup> 58	11°45	6°45	7°31	0°52	19°33	16°41	19°43	18°27	3°42	27°30	T 7
W 8	17 6 47	17°32'34	20°21	11°21	1°58	11°36	6°49	7°38	0°56	19°34	16°40	19°R44	18°24	3°49	27°34	W 8
T 9	17 10 43	18°29'57	2 <sup>☾</sup> 20	12°16	2°59	11°27	6°52	7°46	0°59	19°36	16°40	19°43	18°21	3°55	27°38	T 9
F 10	17 14 40	19°27'18	14°31	13°7	4°1	11°17	6°55	7°53	1°3	19°37	16°39	19°40	18°18	4°2	27°42	F 10
S 11	17 18 36	20°24'39	26°57	13°54	5°2	11°6	6°58	8°1	1°7	19°38	16°39	19°35	18°15	4°9	27°46	S 11
S 12	17 22 33	21°21'59	9 <sup>♂</sup> 40	14°37	6°4	10°55	7°1	8°8	1°10	19°40	16°38	19°27	18°11	4°15	27°50	S 12
M13	17 26 30	22°19'19	22°40	15°17	7°6	10°43	7°3	8°16	1°14	19°41	16°37	19°18	18°8	4°22	27°54	M13
T 14	17 30 26	23°16'37	5 <sup>☾</sup> 57	15°52	8°9	10°30	7°6	8°23	1°17	19°42	16°37	19°8	18°5	4°29	27°58	T 14
W15	17 34 23	24°13'55	19°29	16°23	9°11	10°17	7°8	8°31	1°21	19°44	16°36	18°57	18°2	4°35	28°2	W15
T 16	17 38 19	25°11'12	3 <sup>☾</sup> 13	16°50	10°14	10°3	7°10	8°39	1°24	19°45	16°35	18°48	17°59	4°42	28°6	T 16
F 17	17 42 16	26°8'29	17°6	17°12	11°17	9°49	7°12	8°46	1°28	19°46	16°35	18°41	17°55	4°49	28°10	F 17
S 18	17 46 12	27°5'46	1 <sup>☾</sup> 6	17°30	12°21	9°34	7°13	8°54	1°31	19°47	16°34	18°36	17°52	4°55	28°14	S 18
S 19	17 50 9	28°3'02	15°10	17°43	13°24	9°19	7°15	9°2	1°35	19°48	16°33	18°33	17°49	5°2	28°18	S 19
M20	17 54 5	29°0'18	29°17	17°52	14°28	9°3	7°16	9°10	1°39	19°49	16°32	18°D33	17°46	5°9	28°22	M20
T 21	17 58 2	29°57'34	13 <sup>♂</sup> 26	17°R56	15°32	8°47	7°17	9°17	1°42	19°50	16°31	18°R33	17°43	5°15	28°25	T 21
W22	18 1 59	0 <sup>☾</sup> 54'50	27°35	17°56	16°37	8°30	7°18	9°25	1°46	19°51	16°31	18°33	17°40	5°22	28°29	W22
T 23	18 5 55	1°52'06	11 <sup>☾</sup> 43	17°51	17°41	8°13	7°19	9°33	1°49	19°52	16°30	18°31	17°36	5°29	28°33	T 23
F 24	18 9 52	2°49'21	25°48	17°41	18°46	7°55	7°19	9°41	1°53	19°53	16°29	18°27	17°33	5°35	28°37	F 24
S 25	18 13 48	3°46'36	9 <sup>☾</sup> 46	17°28	19°51	7°38	7°19	9°48	1°57	19°54	16°28	18°20	17°30	5°42	28°40	S 25
S 26	18 17 45	4°43'52	23°36	17°10	20°56	7°20	7°R19	9°56	2°0	19°55	16°27	18°10	17°27	5°49	28°44	S 26
M27	18 21 41	5°41'07	7 <sup>☾</sup> 11	16°49	22°1	7°1	7°19	10°4	2°4	19°56	16°26	17°59	17°24	5°55	28°48	M27
T 28	18 25 38	6°38'21	20°31	16°24	23°6	6°43	7°19	10°12	2°7	19°57	16°25	17°47	17°21	6°2	28°51	T 28
W29	18 29 34	7°35'36	3 <sup>☾</sup> 32	15°56	24°12	6°25	7°18	10°20	2°11	19°58	16°24	17°35	17°17	6°8	28°55	W29
T 30	18 33 31	8 <sup>☾</sup> 32'50	16 <sup>☾</sup> 14	15 <sup>☾</sup> 25	25 <sup>☾</sup> 17	6 <sup>☾</sup> 6	7 <sup>☾</sup> 18	10 <sup>☾</sup> 27	2 <sup>☾</sup> 15	19 <sup>☾</sup> 58	16 <sup>☾</sup> 23	17 <sup>☾</sup> 25	17 <sup>☾</sup> 14	6 <sup>☾</sup> 15	28 <sup>☾</sup> 58	T 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
W 1	22n 4	16n 2	5s 6	25n30	2n 7	7n40	2s10	25s38	2s47	10s 3	0s56	22n42	0s34	23n39	0n13	6n 8	1s35	22s50	7s23	7s47	7s21	2s29	16n40	2s55
T 2	22 12	13 30	4 52	25 24	2 3	7 58	2 13	25 42	2 51	10 2	0 57	22 42	0 34	23 39	0 13	6 8	1 35	22 51	7 23	7 45	7 20	2 31	16 40	2 55
F 3	22 19	10 25	4 24	25 16	1 58	8 17	2 15	25 47	2 55	10 0	0 57	22 41	0 33	23 39	0 13	6 9	1 35	22 51	7 23	7 43	7 19	2 33	16 41	2 55
S 4	22 26	6 57	3 45	25 7	1 52	8 36	2 18	25 51	2 59	9 59	0 57	22 41	0 33	23 39	0 13	6 9	1 35	22 52	7 23	7 42	7 18	2 35	16 42	2 56
S 5	22 33	3 16	2 56	24 56	1 46	8 55	2 20	25 56	3 4	9 58	0 57	22 41	0 33	23 39	0 13	6 10	1 35	22 52	7 24	7 42	7 16	2 37	16 43	2 56
M 6	22 39	0s32	2 1	24 45	1 39	9 13	2 23	26 1	3 8	9 57	0 58	22 41	0 33	23 39	0 13	6 10	1 35	22 52	7 24	7 42	7 15	2 39	16 44	2 56
T 7	22 45	4 17	1 0	24 32	1 31	9 32	2 25	26 6	3 12	9 56	0 58	22 40	0 33	23 39	0 13	6 11	1 35	22 53	7 24	7 43	7 14	2 41	16 44	2 56
W 8	22 51	7 54	0n 3	24 19	1 22	9 51	2 27	26 11	3 16	9 55	0 58	22 40	0 33	23 39	0 13	6 11	1 35	22 53	7 24	7 43	7 13	2 42	16 45	2 56
T 9	22 56	11 14	1 7	24 5	1 13	10 11	2 29	26 16	3 20	9 54	0 58	22 40	0 33	23 39	0 13	6 12	1 35	22 54	7 25	7 43	7 11	2 44	16 46	2 56
F 10	23 1	14 8	2 9	23 50	1 3	10 30	2 30	26 21	3 25	9 53	0 59	22 39	0 33	23 39	0 13	6 12	1 35	22 54	7 25	7 42	7 10	2 46	16 47	2 56
S 11	23 5	16 28	3 5	23 34	0 52	10 49	2 32	26 26	3 29	9 52	0 59	22 39	0 33	23 39	0 13	6 13	1 35	22 54	7 25	7 40	7 9	2 48	16 47	2 57
S 12	23 9	18 2	3 54	23 18	0 40	11 8	2 33	26 31	3 33	9 51	0 59	22 39	0 33	23 39	0 13	6 13	1 35	22 55	7 25	7 37	7 8	2 50	16 48	2 57
M13	23 13	18 42	4 32	23 1	0 28	11 27	2 34	26 36	3 37	9 50	1 0	22 38	0 32	23 39	0 13	6 14	1 35	22 55	7 26	7 33	7 7	2 52	16 49	2 57
T 14	23 16	18 23	4 55	22 45	0 15	11 46	2 35	26 42	3 41	9 50	1 0	22 38	0 32	23 39	0 13	6 14	1 35	22 56	7 26	7 29	7 5	2 54	16 50	2 57
W15	23 18	17 1	5 3	22 27	0 2	12 5	2 36	26 47	3 45	9 49	1 0	22 37	0 32	23 39	0 13	6 14	1 35	22 56	7 26	7 25	7 4	2 55	16 50	2 57
T 16	23 21	14 40	4 54	22 10	0s12	12 24	2 37	26 52	3 50	9 49	1 0	22 37	0 32	23 39	0 13	6 15	1 35	22 57	7 26	7 22	7 3	2 57	16 51	2 57
F 17	23 23	11 27	4 27	21 53	0 27	12 43	2 38	26 57	3 54	9 48	1 1	22 37	0 32	23 39	0 13	6 15	1 35	22 57	7 27	7 19	7 2	2 59	16 52	2 57
S 18	23 24	7 35	3 44	21 36	0 42	13 1	2 38	27 2	3 58	9 48	1 1	22 36	0 32	23 39	0 13	6 16	1 36	22 57	7 27	7 17	7 1	3 1	16 52	2 58
S 19	23 25	3 16	2 48	21 18	0 58	13 20	2 39	27 7	4 2	9 48	1 1	22 36	0 32	23 39	0 13	6 16	1 36	22 58	7 27	7 16	6 59	3 3	16 53	2 58
M20	23 26	1n15	1 41	21 2	1 14	13 38	2 39	27 12	4 5	9 48	1 2	22 35	0 32	23 39	0 13	6 16	1 36	22 58	7 27	7 16	6 58	3 5	16 54	2 58
T 21	23 26	5 43	0 27	20 45	1 30	13 57	2 39	27 17	4 9	9 47	1 2	22 35	0 32	23 39	0 13	6 17	1 36	22 59	7 28	7 16	6 57	3 7	16 54	2 58
W22	23 26	9 52	0s48	20 29	1 46	14 15	2 39	27 22	4 13	9 47	1 2	22 34	0 32	23 39	0 13	6 17	1 36	22 59	7 28	7 16	6 56	3 8	16 55	2 58
T 23	23 25	13 27	2 0	20 13	2 2	14 33	2 39	27 27	4 17	9 47	1 2	22 34	0 31	23 39	0 13	6 17	1 36	23 0	7 28	7 15	6 55	3 10	16 56	2 58
F 24	23 24	16 13	3 4	19 58	2 19	14 51	2 39	27 32	4 20	9 47	1 3	22 33	0 31	23 38	0 13	6 18	1 36	23 0	7 28	7 14	6 53	3 12	16 56	2 59
S 25	23 23	18 1	3 56	19 44	2 35	15 8	2 39	27 36	4 24	9 48	1 3	22 33	0 31	23 38	0 13	6 18	1 36	23 1	7 28	7 11	6 52	3 14	16 57	2 59
S 26	23 21	18 43	4 34	19 30	2 51	15 26	2 39	27 41	4 27	9 48	1 3	22 33	0 31	23 38	0 13	6 18	1 36	23 1	7 29	7 7	6 51	3 16	16 58	2 59
M27	23 19	18 19	4 56	19 17	3 7	15 43	2 38	27 45	4 31	9 48	1 4	22 32	0 31	23 38	0 13	6 19	1 36	23 2	7 29	7 3	6 50	3 18	16 58	2 59
T 28	23 16	16 54	5 1	19 5	3 22	16 0	2 37	27 49	4 34	9 49	1 4	22 32	0 31	23 38	0 13	6 19	1 36	23 2	7 29	6 59	6 48	3 19	16 59	2 59
W29	23 13	14 39	4 50	18 55	3 36	16 17	2 37	27 53	4 37	9 49	1 4	22 31	0 31	23 38	0 13	6 19	1 36	23 3	7 29	6 54	6 47	3 21	16 59	3 0
T 30	23n 9	11n45	4s25	18n45	3s49	16n33	2s36	27s57	4s40	9s50	1s 4	22n31	0s31	23n38	0n13	6n19	1s36	23s 3	7s29	6s50	6s46	3s23	17n 0	3s 0

# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

JULY 2033

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 37 28	9°30'03	28°39	14°R52	26°R23	5°R48	7°R17	10°35	2°18	19°V59	16°R22	17°R17	17°11	6°22	29°R 2	F 1
S 2	18 41 24	10°27'17	10°47	14°17	27°29	5°29	7°16	10°43	2°22	20° 0	16°21	17°12	17° 8	6°28	29° 5	S 2
S 3	18 45 21	11°24'30	22°45	13°41	28°35	5°11	7°14	10°51	2°25	20° 0	16°20	17° 9	17° 5	6°35	29° 9	S 3
M 4	18 49 17	12°21'42	4°35	13° 4	29°42	4°53	7°13	10°59	2°29	20° 1	16°19	17° 8	17° 1	6°42	29°12	M 4
T 5	18 53 14	13°18'55	16°24	12°27	0°II48	4°35	7°11	11° 6	2°32	20° 2	16°18	17° 8	16°58	6°48	29°15	T 5
W 6	18 57 10	14°16'07	28°16	11°51	1°55	4°17	7° 9	11°14	2°36	20° 2	16°17	17° 8	16°55	6°55	29°19	W 6
T 7	19 1 7	15°13'18	10°17	11°17	3° 1	3°59	7° 7	11°22	2°39	20° 3	16°16	17° 6	16°52	7° 2	29°22	T 7
F 8	19 5 3	16°10'30	22°32	10°44	4° 8	3°42	7° 5	11°30	2°43	20° 3	16°15	17° 3	16°49	7° 8	29°25	F 8
S 9	19 9 0	17° 7'42	5°16	10°14	5°15	3°25	7° 3	11°38	2°46	20° 4	16°13	16°57	16°46	7°15	29°29	S 9
S 10	19 12 57	18° 4'53	18° 0	9°47	6°23	3° 9	7° 0	11°45	2°50	20° 4	16°12	16°49	16°42	7°22	29°32	S 10
M 11	19 16 53	19° 2'05	1°16	9°23	7°30	2°53	6°57	11°53	2°53	20° 5	16°11	16°38	16°39	7°28	29°35	M 11
T 12	19 20 50	19°59'17	14°54	9° 3	8°37	2°37	6°54	12° 1	2°57	20° 5	16°10	16°26	16°36	7°35	29°38	T 12
W 13	19 24 46	20°56'29	28°50	8°48	9°45	2°22	6°51	12° 9	3° 0	20° 5	16° 9	16°15	16°33	7°42	29°41	W 13
T 14	19 28 43	21°53'41	12°59	8°37	10°52	2° 8	6°48	12°16	3° 4	20° 6	16° 8	16° 4	16°30	7°48	29°44	T 14
F 15	19 32 39	22°50'53	27°18	8°32	12° 0	1°54	6°44	12°24	3° 7	20° 6	16° 6	15°56	16°27	7°55	29°47	F 15
S 16	19 36 36	23°48'06	11°39	8°D31	13° 8	1°41	6°41	12°32	3°11	20° 6	16° 5	15°50	16°23	8° 1	29°50	S 16
S 17	19 40 32	24°45'20	26° 0	8°36	14°16	1°28	6°37	12°40	3°14	20° 7	16° 4	15°47	16°20	8° 8	29°53	S 17
M 18	19 44 29	25°42'34	10°15	8°46	15°24	1°16	6°33	12°47	3°18	20° 7	16° 3	15°46	16°17	8°15	29°56	M 18
T 19	19 48 26	26°39'49	24°25	9° 2	16°33	1° 5	6°29	12°55	3°21	20° 7	16° 1	15°46	16°14	8°21	29°58	T 19
W 20	19 52 22	27°37'04	8°26	9°24	17°41	0°54	6°24	13° 3	3°24	20° 7	16° 0	15°46	16°11	8°28	0°II 1	W 20
T 21	19 56 19	28°34'21	22°20	9°51	18°50	0°44	6°20	13°10	3°28	20° 7	15°59	15°44	16° 7	8°35	0° 4	T 21
F 22	20 0 15	29°31'38	6°II 5	10°24	19°58	0°35	6°15	13°18	3°31	20° 7	15°58	15°40	16° 4	8°41	0° 7	F 22
S 23	20 4 12	0°L28'56	19°40	11° 2	21° 7	0°27	6°10	13°25	3°34	20°R 7	15°56	15°33	16° 1	8°48	0° 9	S 23
S 24	20 8 8	1°26'15	3°5	11°46	22°16	0°19	6° 5	13°33	3°38	20° 7	15°55	15°24	15°58	8°55	0°12	S 24
M 25	20 12 5	2°23'35	16°18	12°36	23°25	0°12	6° 0	13°41	3°41	20° 7	15°54	15°12	15°55	9° 1	0°14	M 25
T 26	20 16 1	3°20'55	29°17	13°31	24°34	0° 6	5°54	13°48	3°44	20° 7	15°52	15° 1	15°52	9° 8	0°17	T 26
W 27	20 19 58	4°18'16	12°2	14°31	25°43	0° 1	5°49	13°56	3°47	20° 7	15°51	14°49	15°48	9°15	0°19	W 27
T 28	20 23 55	5°15'38	24°32	15°37	26°52	29°157	5°43	14° 3	3°50	20° 7	15°50	14°39	15°45	9°21	0°21	T 28
F 29	20 27 51	6°13'00	6°148	16°48	28° 1	29°53	5°37	14°11	3°54	20° 7	15°48	14°31	15°42	9°28	0°24	F 29
S 30	20 31 48	7°10'23	18°52	18° 4	29°11	29°50	5°32	14°18	3°57	20° 7	15°47	14°25	15°39	9°35	0°26	S 30
S 31	20 35 44	8°L 7'46	0°46	19°25	0°20	29°149	5°125	14°25	4°0	20°V 6	15°46	14°22	15°36	9°41	0°II28	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	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl
F 1	23n 6	8n23	3s47	18n36	4s 2	16n50	2s35	28s 1	4s43	9s50	1s 5	22n30	0s31	23n38	0n13	6n20	1s36	23s 4	7s30	6s47	6s45	3s25	17n 0	3s 0										
S 2	23 1	4 44	3 0	18 29	4 13	17 6	2 34	28 4	4 45	9 51	1 5	22 29	0 31	23 38	0 13	6 20	1 36	23 4	7 30	6 45	6 44	3 27	17 1	3 0										
S 3	22 57	0 57	2 6	18 22	4 23	17 21	2 33	28 8	4 48	9 52	1 5	22 29	0 31	23 38	0 13	6 20	1 36	23 5	7 30	6 44	6 42	3 29	17 1	3 0										
M 4	22 51	2s50	1 6	18 17	4 31	17 37	2 32	28 11	4 50	9 52	1 6	22 28	0 30	23 38	0 13	6 20	1 36	23 5	7 30	6 44	6 41	3 30	17 2	3 1										
T 5	22 46	6 30	0 4	18 14	4 38	17 52	2 30	28 14	4 53	9 53	1 6	22 28	0 30	23 38	0 13	6 20	1 36	23 6	7 30	6 44	6 40	3 32	17 3	3 1										
W 6	22 40	9 56	0n59	18 11	4 44	18 6	2 29	28 17	4 55	9 54	1 6	22 27	0 30	23 38	0 13	6 20	1 37	23 6	7 31	6 44	6 39	3 34	17 3	3 1										
T 7	22 34	13 0	1 59	18 10	4 48	18 21	2 27	28 19	4 57	9 55	1 6	22 27	0 30	23 38	0 13	6 21	1 37	23 7	7 31	6 43	6 38	3 36	17 3	3 1										
F 8	22 27	15 34	2 56	18 10	4 50	18 35	2 26	28 22	4 59	9 56	1 7	22 26	0 30	23 38	0 13	6 21	1 37	23 7	7 31	6 42	6 36	3 38	17 4	3 1										
S 9	22 20	17 27	3 45	18 12	4 51	18 49	2 24	28 24	5 1	9 58	1 7	22 25	0 30	23 38	0 14	6 21	1 37	23 8	7 31	6 39	6 35	3 40	17 4	3 2										
S 10	22 13	18 30	4 24	18 15	4 50	19 2	2 22	28 26	5 2	9 59	1 7	22 25	0 30	23 38	0 14	6 21	1 37	23 8	7 31	6 36	6 34	3 41	17 5	3 2										
M11	22 5	18 35	4 50	18 19	4 48	19 15	2 20	28 28	5 4	10 0	1 8	22 24	0 30	23 38	0 14	6 21	1 37	23 9	7 31	6 32	6 33	3 43	17 5	3 2										
T 12	21 57	17 37	5 1	18 24	4 44	19 27	2 19	28 30	5 5	10 1	1 8	22 24	0 30	23 38	0 14	6 21	1 37	23 9	7 32	6 28	6 31	3 45	17 6	3 2										
W13	21 48	15 36	4 54	18 30	4 39	19 39	2 17	28 31	5 6	10 3	1 8	22 23	0 30	23 37	0 14	6 21	1 37	23 10	7 32	6 23	6 30	3 47	17 6	3 3										
T 14	21 39	12 37	4 29	18 37	4 32	19 51	2 14	28 32	5 8	10 4	1 8	22 22	0 30	23 37	0 14	6 21	1 37	23 10	7 32	6 19	6 29	3 49	17 7	3 3										
F 15	21 30	8 51	3 47	18 46	4 24	20 2	2 12	28 34	5 9	10 6	1 9	22 22	0 30	23 37	0 14	6 21	1 37	23 11	7 32	6 16	6 28	3 50	17 7	3 3										
S 16	21 20	4 34	2 50	18 55	4 16	20 13	2 10	28 35	5 9	10 7	1 9	22 21	0 30	23 37	0 14	6 21	1 37	23 11	7 32	6 14	6 27	3 52	17 7	3 3										
S 17	21 10	0 1	1 43	19 4	4 6	20 23	2 8	28 36	5 10	10 9	1 9	22 20	0 29	23 37	0 14	6 21	1 37	23 12	7 32	6 13	6 25	3 54	17 8	3 4										
M18	21 0	4n30	0 29	19 14	3 55	20 33	2 6	28 36	5 11	10 11	1 9	22 20	0 29	23 37	0 14	6 21	1 37	23 12	7 33	6 12	6 24	3 56	17 8	3 4										
T 19	20 49	8 45	0s46	19 25	3 43	20 43	2 3	28 37	5 11	10 13	1 10	22 19	0 29	23 37	0 14	6 21	1 37	23 13	7 33	6 12	6 23	3 58	17 8	3 4										
W20	20 38	12 28	1 57	19 36	3 30	20 51	2 1	28 37	5 12	10 15	1 10	22 19	0 29	23 37	0 14	6 21	1 37	23 14	7 33	6 12	6 22	4 0	17 9	3 4										
T 21	20 26	15 26	3 1	19 47	3 17	21 0	1 58	28 38	5 12	10 16	1 10	22 18	0 29	23 37	0 14	6 21	1 37	23 14	7 33	6 11	6 20	4 1	17 9	3 5										
F 22	20 15	17 29	3 53	19 58	3 4	21 8	1 56	28 38	5 12	10 18	1 10	22 17	0 29	23 37	0 14	6 21	1 37	23 15	7 33	6 10	6 19	4 3	17 9	3 5										
S 23	20 2	18 31	4 32	20 9	2 50	21 15	1 53	28 38	5 12	10 21	1 11	22 16	0 29	23 37	0 14	6 21	1 38	23 15	7 33	6 7	6 18	4 5	17 10	3 5										
S 24	19 50	18 29	4 55	20 20	2 35	21 22	1 50	28 38	5 12	10 23	1 11	22 16	0 29	23 37	0 14	6 21	1 38	23 16	7 33	6 4	6 17	4 7	17 10	3 5										
M25	19 37	17 27	5 2	20 30	2 21	21 29	1 48	28 38	5 12	10 25	1 11	22 15	0 29	23 37	0 14	6 21	1 38	23 16	7 33	5 59	6 16	4 9	17 10	3 6										
T 26	19 24	15 31	4 53	20 39	2 6	21 34	1 45	28 37	5 11	10 27	1 11	22 14	0 29	23 37	0 14	6 21	1 38	23 17	7 34	5 55	6 14	4 10	17 10	3 6										
W27	19 11	12 52	4 29	20 48	1 51	21 40	1 42	28 37	5 11	10 29	1 12	22 14	0 29	23 36	0 14	6 21	1 38	23 17	7 34	5 50	6 13	4 12	17 11	3 6										
T 28	18 57	9 41	3 53	20 56	1 36	21 45	1 39	28 36	5 10	10 32	1 12	22 13	0 29	23 36	0 14	6 21	1 38	23 18	7 34	5 46	6 12	4 14	17 11	3 6										
F 29	18 43	6 8	3 6	21 2	1 21	21 49	1 36	28 36	5 10	10 34	1 12	22 12	0 29	23 36	0 14	6 21	1 38	23 18	7 34	5 43	6 11	4 16	17 11	3 7										
S 30	18 28	2 23	2 12	21 7	1 7	21 52	1 33	28 35	5 9	10 36	1 12	22 12	0 29	23 36	0 14	6 21	1 38	23 19	7 34	5 41	6 9	4 18	17 11	3 7										
S 31	18n14	1s24	1s12	21n10	0s52	21n55	1s30	28s34	5s 8	10s39	1s13	22n11	0s28	23n36	0n14	6n21	1s38	23s19	7s34	5s40	6s 8	4s19	17n12	3s 7										



## ASTRODIENST EPHEMERIS for the year 2033

geocentric

AUGUST 2033

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 39 41	9♌ 5'10	12♋34	20♊50	1♈30	29°R48	5°R19	14♌33	4♌ 3	20°R 6	15°R44	14°D21	15♌33	9♌48	0♏30	M 1
T 2	20 43 37	10° 2'34	24°22	22°21	2°40	29°D48	5♏13	14°40	4° 6	20°Y 6	15♌43	14♌22	15°29	9°54	0°33	T 2
W 3	20 47 34	11° 0'00	6♏13	23°55	3°49	29♌48	5° 6	14°47	4° 9	20° 5	15°42	14°R22	15°26	10° 1	0°35	W 3
T 4	20 51 30	11°57'26	18°14	25°34	4°59	29°50	5° 0	14°55	4°12	20° 5	15°40	14°22	15°23	10° 8	0°37	T 4
F 5	20 55 27	12°54'52	0♌30	27°17	6° 9	29°52	4°53	15° 2	4°15	20° 5	15°39	14°21	15°20	10°14	0°38	F 5
S 6	20 59 24	13°52'19	13° 5	29° 3	7°19	29°56	4°46	15° 9	4°18	20° 4	15°38	14°17	15°17	10°21	0°40	S 6
S 7	21 3 20	14°49'48	26° 3	0♌53	8°29	29°59	4°40	15°16	4°21	20° 4	15°36	14°11	15°13	10°28	0°42	S 7
M 8	21 7 17	15°47'16	9♌27	2°45	9°40	0♌ 5	4°33	15°23	4°24	20° 3	15°35	14° 3	15°10	10°34	0°44	M 8
T 9	21 11 13	16°44'46	23°17	4°40	10°50	0°11	4°25	15°30	4°27	20° 3	15°33	13°55	15° 7	10°41	0°46	T 9
W10	21 15 10	17°42'17	7♌29	6°37	12° 0	0°17	4°18	15°38	4°30	20° 2	15°32	13°46	15° 4	10°48	0°47	W10
T 11	21 19 6	18°39'48	22° 0	8°36	13°11	0°24	4°11	15°45	4°33	20° 2	15°31	13°38	15° 1	10°54	0°49	T 11
F 12	21 23 3	19°37'21	6♏42	10°36	14°21	0°33	4° 4	15°51	4°35	20° 1	15°29	13°31	14°58	11° 1	0°51	F 12
S 13	21 26 59	20°34'55	21°28	12°38	15°32	0°42	3°56	15°58	4°38	20° 0	15°28	13°27	14°54	11° 8	0°52	S 13
S 14	21 30 56	21°32'30	6♏11	14°40	16°43	0°51	3°49	16° 5	4°41	20° 0	15°27	13°25	14°51	11°14	0°53	S 14
M15	21 34 53	22°30'07	20°45	16°42	17°54	1° 2	3°41	16°12	4°44	19°59	15°25	13°D25	14°48	11°21	0°55	M15
T 16	21 38 49	23°27'45	5♏ 5	18°45	19° 5	1°13	3°34	16°19	4°46	19°58	15°24	13°26	14°45	11°27	0°56	T 16
W17	21 42 46	24°25'25	19°11	20°47	20°16	1°25	3°26	16°26	4°49	19°58	15°23	13°R27	14°42	11°34	0°57	W17
T 18	21 46 42	25°23'07	3♏ 1	22°49	21°27	1°37	3°18	16°32	4°51	19°57	15°21	13°27	14°38	11°41	0°59	T 18
F 19	21 50 39	26°20'50	16°35	24°50	22°38	1°50	3°10	16°39	4°54	19°56	15°20	13°25	14°35	11°47	1° 0	F 19
S 20	21 54 35	27°18'35	29°54	26°51	23°49	2° 4	3° 3	16°46	4°56	19°55	15°19	13°21	14°32	11°54	1° 1	S 20
S 21	21 58 32	28°16'21	13♌ 0	28°51	25° 1	2°19	2°55	16°52	4°59	19°54	15°17	13°16	14°29	12° 1	1° 2	S 21
M22	22 2 28	29°14'09	25°52	0♏50	26°12	2°34	2°47	16°59	5° 1	19°53	15°16	13° 9	14°26	12° 7	1° 3	M22
T 23	22 6 25	0♏11'59	8♏21	2°48	27°23	2°50	2°39	17° 5	5° 4	19°52	15°15	13° 1	14°23	12°14	1° 4	T 23
W24	22 10 22	1° 9'49	20°58	4°44	28°35	3° 7	2°31	17°11	5° 6	19°51	15°13	12°53	14°19	12°21	1° 5	W24
T 25	22 14 18	2° 7'42	3♏13	6°40	29°47	3°24	2°23	17°18	5° 8	19°51	15°12	12°47	14°16	12°27	1° 5	T 25
F 26	22 18 15	3° 5'36	15°18	8°34	0♌58	3°42	2°15	17°24	5°11	19°50	15°11	12°42	14°13	12°34	1° 6	F 26
S 27	22 22 11	4° 3'31	27°15	10°27	2°10	4° 1	2° 7	17°30	5°13	19°48	15°10	12°39	14°10	12°41	1° 7	S 27
S 28	22 26 8	5° 1'28	9♌ 5	12°18	3°22	4°20	2° 0	17°36	5°15	19°47	15° 8	12°D38	14° 7	12°47	1° 7	S 28
M29	22 30 4	5°59'26	20°51	14° 9	4°34	4°40	1°52	17°42	5°17	19°46	15° 7	12°38	14° 4	12°54	1° 8	M29
T 30	22 34 1	6°57'25	2♏38	15°58	5°46	5° 0	1°44	17°48	5°20	19°45	15° 6	12°39	14° 0	13° 0	1° 8	T 30
W31	22 37 57	7♏55'26	14♏29	17♏45	6♌58	5♌21	1♏36	17♌54	5♌22	19°Y44	15♌ 5	12♌41	13♌57	13♌ 7	1♏ 9	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
M 1	17n59	5s 7	0s10	21n12	0s38	21n58	1s27	28s33	5s 7	10s41	1s13	22n10	0s28	23n36	0n14	6n20	1s38	23s20	7s34	5s40	6s 7	4s21	17n12	3s 7					
T 2	17 43	8 37	0n53	21 11	0 24	22 0	1 24	28 32	5 6	10 44	1 13	22 9	0 28	23 36	0 14	6 20	1 38	23 20	7 34	5 40	6 6	4 23	17 12	3 8					
W 3	17 28	11 47	1 54	21 8	0 11	22 1	1 21	28 31	5 5	10 46	1 13	22 9	0 28	23 36	0 14	6 20	1 38	23 21	7 34	5 40	6 5	4 25	17 12	3 8					
T 4	17 12	14 31	2 51	21 3	0n 2	22 2	1 18	28 30	5 4	10 49	1 13	22 8	0 28	23 36	0 14	6 20	1 38	23 21	7 34	5 40	6 3	4 27	17 12	3 8					
F 5	16 56	16 39	3 41	20 56	0 15	22 2	1 15	28 29	5 3	10 52	1 14	22 7	0 28	23 36	0 14	6 20	1 38	23 22	7 35	5 39	6 2	4 28	17 12	3 8					
S 6	16 40	18 2	4 22	20 46	0 26	22 2	1 12	28 28	5 2	10 54	1 14	22 6	0 28	23 36	0 14	6 19	1 38	23 22	7 35	5 38	6 1	4 30	17 12	3 9					
S 7	16 23	18 32	4 51	20 34	0 37	22 1	1 9	28 26	5 0	10 57	1 14	22 6	0 28	23 36	0 14	6 19	1 38	23 23	7 35	5 36	6 0	4 32	17 13	3 9					
M 8	16 6	18 2	5 5	20 19	0 48	21 59	1 6	28 25	4 59	11 0	1 14	22 5	0 28	23 35	0 14	6 19	1 38	23 23	7 35	5 33	5 58	4 34	17 13	3 9					
T 9	15 49	16 28	5 2	20 1	0 57	21 57	1 3	28 24	4 58	11 2	1 14	22 4	0 28	23 35	0 14	6 19	1 39	23 24	7 35	5 29	5 57	4 36	17 13	3 10					
W10	15 31	13 53	4 40	19 40	1 6	21 54	0 59	28 22	4 56	11 5	1 15	22 3	0 28	23 35	0 14	6 19	1 39	23 24	7 35	5 26	5 56	4 37	17 13	3 10					
T 11	15 14	10 23	4 0	19 17	1 13	21 51	0 56	28 21	4 55	11 8	1 15	22 3	0 28	23 35	0 14	6 18	1 39	23 25	7 35	5 23	5 55	4 39	17 13	3 10					
F 12	14 56	6 12	3 4	18 52	1 20	21 47	0 53	28 19	4 53	11 11	1 15	22 2	0 28	23 35	0 14	6 18	1 39	23 25	7 35	5 20	5 54	4 41	17 13	3 10					
S 13	14 38	1 37	1 55	18 24	1 26	21 42	0 50	28 17	4 51	11 14	1 15	22 1	0 28	23 35	0 14	6 18	1 39	23 25	7 35	5 18	5 52	4 43	17 13	3 11					
S 14	14 19	3n 3	0 39	17 53	1 32	21 37	0 46	28 16	4 50	11 17	1 15	22 0	0 28	23 35	0 14	6 17	1 39	23 26	7 35	5 18	5 51	4 45	17 13	3 11					
M15	14 1	7 29	0s39	17 21	1 36	21 31	0 43	28 14	4 48	11 19	1 15	22 0	0 27	23 35	0 14	6 17	1 39	23 26	7 35	5 18	5 50	4 46	17 13	3 11					
T 16	13 42	11 25	1 54	16 47	1 40	21 25	0 40	28 12	4 46	11 22	1 16	21 59	0 27	23 35	0 14	6 17	1 39	23 27	7 35	5 18	5 49	4 48	17 13	3 12					
W17	13 23	14 37	3 1	16 11	1 42	21 18	0 37	28 10	4 45	11 25	1 16	21 58	0 27	23 35	0 14	6 16	1 39	23 27	7 35	5 18	5 47	4 50	17 13	3 12					
T 18	13 3	16 54	3 56	15 33	1 44	21 10	0 34	28 8	4 43	11 28	1 16	21 57	0 27	23 35	0 14	6 16	1 39	23 28	7 35	5 18	5 46	4 52	17 13	3 12					
F 19	12 44	18 11	4 36	14 53	1 45	21 2	0 30	28 6	4 41	11 31	1 16	21 57	0 27	23 35	0 14	6 16	1 39	23 28	7 35	5 18	5 45	4 54	17 13	3 12					
S 20	12 24	18 26	5 0	14 13	1 46	20 53	0 27	28 4	4 39	11 34	1 16	21 56	0 27	23 35	0 14	6 15	1 39	23 29	7 35	5 16	5 44	4 55	17 13	3 13					
S 21	12 4	17 41	5 9	13 31	1 45	20 44	0 24	28 2	4 37	11 37	1 16	21 55	0 27	23 34	0 14	6 15	1 39	23 29	7 35	5 14	5 42	4 57	17 13	3 13					
M22	11 44	16 2	5 1	12 48	1 45	20 34	0 21	28 0	4 36	11 40	1 16	21 54	0 27	23 34	0 14	6 15	1 39	23 29	7 35	5 11	5 41	4 59	17 13	3 13					
T 23	11 24	13 38	4 39	12 5	1 43	20 23	0 18	27 58	4 34	11 43	1 16	21 54	0 27	23 34	0 14	6 14	1 39	23 30	7 35	5 8	5 40	5 1	17 12	3 14					
W24	11 3	10 39	4 4	11 20	1 41	20 12	0 14	27 55	4 32	11 46	1 17	21 53	0 27	23 34	0 14	6 14	1 39	23 30	7 35	5 5	5 39	5 2	17 12	3 14					
T 25	10 43	7 15	3 18	10 35	1 38	20 1	0 11	27 53	4 30	11 49	1 17	21 52	0 27	23 34	0 14	6 13	1 39	23 31	7 35	5 3	5 38	5 4	17 12	3 14					
F 26	10 22	3 35	2 23	9 50	1 35	19 48	0 8	27 50	4 28	11 52	1 17	21 51	0 27	23 34	0 14	6 13	1 39	23 31	7 35	5 1	5 36	5 6	17 12	3 14					
S 27	10 1	0s10	1 23	9 4	1 32	19 35	0 5	27 48	4 26	11 55	1 17	21 51	0 27	23 34	0 14	6 13	1 39	23 31	7 35	5 0	5 35	5 8	17 12	3 15					
S 28	9 40	3 54	0 19	8 18	1 28	19 22	0 2	27 45	4 24	11 58	1 17	21 50	0 27	23 34	0 14	6 12	1 39	23 32	7 35	4 59	5 34	5 10	17 12	3 15					
M29	9 19	7 27	0n45	7 31	1 23	19 8	0n 1	27 42	4 22	12 0	1 17	21 49	0 27	23 34	0 14	6 12	1 40	23 32	7 35	4 59	5 33	5 11	17 11	3 15					
T 30	8 57	10 42	1 47	6 45	1 19	18 54	0 4	27 40	4 20	12 3	1 17	21 48	0 27	23 34	0 14	6 11	1 40	23 33	7 35	5 0	5 31	5 13	17 11	3 16					
W31	8n36	13s33	2n46	5n58	1n13	18n39	0n 7	27s37	4s18	12s 6	1s17	21n48	0s27	23n34	0n14	6n11	1s40	23s33	7s35	5s 0	5s30	5s15	17n11	3s16					

# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

SEPTEMBER 2033

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 41 54	8♈53'29	26♈29	19♈32	8♈10	5♈43	1°R28	18°0	5♈24	19°R43	15°R 3	12♈42	13♈54	13♈14	1♈11 9	T 1	
F 2	22 45 50	9°51'32	8♈43	21°17	9°22	6° 5	1°K20	18° 6	5°26	19°Y42	15°≈ 2	12°R43	13°51	13°20	1° 9	F 2	
S 3	22 49 47	10°49'38	21°16	23° 1	10°34	6°28	1°13	18°12	5°28	19°41	15° 1	12°42	13°48	13°27	1° 9	S 3	
S 4	22 53 44	11°47'44	4♈12	24°44	11°47	6°51	1° 5	18°18	5°30	19°39	15° 0	12°41	13°44	13°34	1° 9	S 4	
M 5	22 57 40	12°45'52	17°34	26°25	12°59	7°14	0°58	18°23	5°31	19°38	14°59	12°37	13°41	13°40	1°10	M 5	
T 6	23 1 37	13°44'01	1≈24	28° 5	14°12	7°39	0°50	18°29	5°33	19°37	14°57	12°34	13°38	13°47	1°R10	T 6	
W 7	23 5 33	14°42'12	15°40	29°44	15°24	8° 3	0°43	18°34	5°35	19°36	14°56	12°30	13°35	13°54	1°10	W 7	
T 8	23 9 30	15°40'25	0♈20	1♈22	16°37	8°28	0°35	18°40	5°37	19°34	14°55	12°26	13°32	14° 0	1° 9	T 8	
F 9	23 13 26	16°38'39	15°16	2°59	17°49	8°54	0°28	18°45	5°38	19°33	14°54	12°23	13°29	14° 7	1° 9	F 9	
S 10	23 17 23	17°36'54	0°Y21	4°35	19° 2	9°20	0°21	18°50	5°40	19°32	14°53	12°21	13°25	14°14	1° 9	S 10	
S 11	23 21 19	18°35'12	15°25	6° 9	20°15	9°46	0°14	18°56	5°42	19°30	14°52	12°D21	13°22	14°20	1° 9	S 11	
M12	23 25 16	19°33'32	0♈19	7°42	21°28	10°13	0° 6	19° 1	5°43	19°29	14°51	12°22	13°19	14°27	1° 8	M12	
T 13	23 29 13	20°31'53	14°58	9°14	22°41	10°41	29≈59	19° 6	5°45	19°27	14°50	12°23	13°16	14°33	1° 8	T 13	
W14	23 33 9	21°30'17	29°17	10°45	23°54	11° 8	29°53	19°11	5°46	19°26	14°49	12°24	13°13	14°40	1° 7	W14	
T 15	23 37 6	22°28'43	13II14	12°15	25° 7	11°36	29°46	19°16	5°48	19°25	14°48	12°25	13°10	14°47	1° 7	T 15	
F 16	23 41 2	23°27'11	26°48	13°44	26°20	12° 5	29°39	19°20	5°49	19°23	14°47	12°R25	13° 6	14°53	1° 6	F 16	
S 17	23 44 59	24°25'42	10♈ 1	15°12	27°33	12°34	29°33	19°25	5°50	19°22	14°46	12°25	13° 3	15° 0	1° 5	S 17	
S 18	23 48 55	25°24'14	22°55	16°38	28°46	13° 3	29°27	19°30	5°51	19°20	14°45	12°23	13° 0	15° 7	1° 5	S 18	
M19	23 52 52	26°22'49	5♈23	18° 4	29°59	13°33	29°20	19°34	5°53	19°19	14°44	12°21	12°57	15°13	1° 4	M19	
T 20	23 56 48	27°21'26	17°56	19°28	1♈13	14° 3	29°14	19°39	5°54	19°17	14°43	12°19	12°54	15°20	1° 3	T 20	
W21	0 0 45	28°20'04	0♈ 8	20°51	2°26	14°33	29° 8	19°43	5°55	19°16	14°42	12°17	12°50	15°27	1° 2	W21	
T 22	0 4 42	29°18'45	12°11	22°13	3°40	15° 4	29° 2	19°48	5°56	19°14	14°41	12°15	12°47	15°33	1° 1	T 22	
F 23	0 8 38	0♈17'28	24° 6	23°33	4°53	15°35	28°57	19°52	5°57	19°13	14°40	12°14	12°44	15°40	1° 0	F 23	
S 24	0 12 35	1°16'13	5♈56	24°52	6° 7	16° 7	28°51	19°56	5°58	19°11	14°39	12°13	12°41	15°47	0°59	S 24	
S 25	0 16 31	2°15'00	17°44	26°10	7°20	16°38	28°46	20° 0	5°59	19° 9	14°39	12°D13	12°38	15°53	0°58	S 25	
M26	0 20 28	3°13'48	29°30	27°27	8°34	17°10	28°40	20° 4	6° 0	19° 8	14°38	12°14	12°35	16° 0	0°57	M26	
T 27	0 24 24	4°12'39	11♈19	28°41	9°48	17°43	28°35	20° 8	6° 0	19° 6	14°37	12°14	12°31	16° 7	0°55	T 27	
W28	0 28 21	5°11'31	23°13	29°55	11° 2	18°16	28°31	20°12	6° 1	19° 5	14°36	12°15	12°28	16°13	0°54	W28	
T 29	0 32 17	6°10'26	5♈15	1♈ 6	12°15	18°49	28°26	20°15	6° 2	19° 3	14°35	12°16	12°25	16°20	0°52	T 29	
F 30	0 36 14	7♈ 9'22	17♈29	2♈16	13♈29	19♈22	28≈21	20♈19	6≈3	19°Y 1	14≈35	12♈16	12♈22	16≈26	0II51	F 30	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n14	15s50	3n37	5n11	1n 8	18n23	0n10	27s34	4s15	12s 9	1s17	21n47	0s27	23n34	0n14	6n10	1s40
F 2	7 52	17 28	4 20	4 24	1 2	18 7	0 13	27 31	4 13	12 12	1 17	21 46	0 26	23 34	0 14	6 10	1 40
S 3	7 30	18 17	4 52	3 38	0 56	17 50	0 16	27 28	4 11	12 15	1 17	21 46	0 26	23 34	0 14	6 9	1 40
S 4	7 8	18 12	5 10	2 51	0 50	17 33	0 19	27 24	4 9	12 17	1 17	21 45	0 26	23 34	0 14	6 9	1 40
M 5	6 46	17 7	5 13	2 5	0 43	17 16	0 22	27 21	4 7	12 20	1 17	21 44	0 26	23 33	0 14	6 8	1 40
T 6	6 24	15 1	4 57	1 19	0 37	16 57	0 25	27 17	4 5	12 23	1 17	21 43	0 26	23 33	0 14	6 8	1 40
W 7	6 1	11 57	4 23	0 34	0 30	16 39	0 27	27 14	4 3	12 25	1 17	21 43	0 26	23 33	0 15	6 7	1 40
T 8	5 39	8 3	3 31	0s12	0 23	16 20	0 30	27 10	4 1	12 28	1 17	21 42	0 26	23 33	0 15	6 7	1 40
F 9	5 16	3 36	2 24	0 57	0 16	16 0	0 33	27 6	3 59	12 31	1 17	21 41	0 26	23 33	0 15	6 6	1 40
S 10	4 54	1n 9	1 6	1 42	0 8	15 40	0 35	27 2	3 57	12 33	1 17	21 41	0 26	23 33	0 15	6 6	1 40
S 11	4 31	5 48	0s17	2 26	0 1	15 20	0 38	26 58	3 55	12 36	1 17	21 40	0 26	23 33	0 15	6 5	1 40
M12	4 8	10 3	1 38	3 10	0s 7	14 59	0 40	26 54	3 52	12 38	1 17	21 39	0 26	23 33	0 15	6 5	1 40
T 13	3 45	13 36	2 51	3 53	0 14	14 38	0 43	26 50	3 50	12 41	1 17	21 39	0 26	23 33	0 15	6 4	1 40
W14	3 22	16 14	3 51	4 36	0 22	14 16	0 45	26 45	3 48	12 43	1 17	21 38	0 26	23 33	0 15	6 3	1 40
T 15	2 59	17 49	4 36	5 18	0 30	13 54	0 48	26 41	3 46	12 45	1 17	21 37	0 26	23 33	0 15	6 3	1 40
F 16	2 36	18 19	5 5	6 0	0 38	13 31	0 50	26 36	3 44	12 48	1 17	21 37	0 26	23 33	0 15	6 2	1 40
S 17	2 13	17 48	5 16	6 41	0 46	13 8	0 52	26 31	3 42	12 50	1 17	21 36	0 26	23 33	0 15	6 2	1 40
S 18	1 50	16 22	5 11	7 22	0 53	12 45	0 55	26 26	3 40	12 52	1 17	21 36	0 26	23 33	0 15	6 1	1 40
M19	1 26	14 10	4 51	8 2	1 1	12 21	0 57	26 21	3 38	12 54	1 17	21 35	0 26	23 33	0 15	6 1	1 40
T 20	1 3	11 22	4 17	8 41	1 9	11 57	0 59	26 16	3 35	12 56	1 17	21 34	0 26	23 33	0 15	6 0	1 40
W21	0 40	8 6	3 33	9 19	1 17	11 33	1 1	26 10	3 33	12 58	1 17	21 34	0 25	23 33	0 15	5 59	1 40
T 22	0 16	4 32	2 39	9 57	1 25	11 8	1 3	26 5	3 31	13 0	1 17	21 33	0 25	23 33	0 15	5 59	1 40
F 23	0s 7	0 50	1 39	10 34	1 32	10 43	1 5	25 59	3 29	13 2	1 17	21 33	0 25	23 33	0 15	5 58	1 40
S 24	0 30	2s53	0 35	11 11	1 40	10 18	1 7	25 53	3 27	13 4	1 17	21 32	0 25	23 33	0 15	5 58	1 40
S 25	0 54	6 29	0n31	11 46	1 48	9 52	1 9	25 47	3 25	13 6	1 17	21 32	0 25	23 33	0 15	5 57	1 40
M26	1 17	9 49	1 35	12 21	1 55	9 27	1 10	25 41	3 23	13 8	1 17	21 31	0 25	23 33	0 15	5 56	1 40
T 27	1 40	12 46	2 35	12 55	2 2	9 0	1 12	25 35	3 21	13 9	1 17	21 31	0 25	23 33	0 15	5 56	1 40
W28	2 4	15 12	3 29	13 27	2 9	8 34	1 14	25 28	3 19	13 11	1 17	21 30	0 25	23 33	0 15	5 55	1 40
T 29	2 27	17 0	4 14	13 59	2 16	8 7	1 15	25 21	3 16	13 13	1 16	21 30	0 25	23 33	0 15	5 54	1 40
F 30	2s50	18s 3	4n49	14s30	2s23	7n40	1n17	25s14	3s14	13s14	1s16	21n29	0s25	23n33	0n15	5n54	1s41

Julian Day Number = 2463841.5, Delta T = 70.17 sec

Ecliptic obliquity = 23°25'57, Nutation = 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°12'38, Lahiri = 24°19'39

## ASTRODIENST EPHEMERIS for the year 2033

geocentric

OCTOBER 2033

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 10	8♂ 8'20	29♂59	3♂24	14♂43	19♂55	28♂17	20♂22	6♂ 3	19♂ 0	14♂34	12♂17	12♂19	16♂33	0♂49	S 1
S 2	0 44 7	9° 7'19	12♂51	4°30	15°57	20°29	28♂13	20°26	6° 4	18♂58	14♂33	12♂17	12°15	16°40	0♂48	S 2
M 3	0 48 4	10° 6'21	26° 6	5°34	17°11	21° 4	28° 9	20°29	6° 4	18°56	14°33	12°17	12°12	16°46	0°46	M 3
T 4	0 52 0	11° 5'24	9♂47	6°36	18°25	21°38	28° 5	20°32	6° 5	18°55	14°32	12°16	12° 9	16°53	0°44	T 4
W 5	0 55 57	12° 4'29	23°55	7°35	19°39	22°13	28° 1	20°35	6° 5	18°53	14°31	12°D16	12° 6	17° 0	0°43	W 5
T 6	0 59 53	13° 3'35	8♂28	8°31	20°53	22°47	27°57	20°38	6° 5	18°51	14°31	12°16	12° 3	17° 6	0°41	T 6
F 7	1 3 50	14° 2'43	23°23	9°24	22° 8	23°23	27°54	20°41	6° 6	18°50	14°30	12°17	12° 0	17°13	0°39	F 7
S 8	1 7 46	15° 1'54	8♂31	10°14	23°22	23°58	27°51	20°44	6° 6	18°48	14°30	12°R17	11°56	17°20	0°37	S 8
S 9	1 11 43	16° 1'06	23°45	11° 0	24°36	24°34	27°48	20°47	6° 6	18°46	14°29	12°17	11°53	17°26	0°35	S 9
M10	1 15 39	17° 0'20	8♂55	11°43	25°50	25° 9	27°45	20°49	6° 6	18°45	14°29	12°16	11°50	17°33	0°33	M10
T 11	1 19 36	17°59'37	23°50	12°21	27° 5	25°45	27°43	20°52	6° 6	18°43	14°28	12°16	11°47	17°40	0°31	T 11
W12	1 23 33	18°58'56	8♂25	12°55	28°19	26°22	27°40	20°54	6°R 6	18°41	14°28	12°15	11°44	17°46	0°29	W12
T 13	1 27 29	19°58'17	22°35	13°23	29°34	26°58	27°38	20°57	6° 6	18°40	14°27	12°14	11°41	17°53	0°27	T 13
F 14	1 31 26	20°57'40	6♂17	13°46	0♂48	27°35	27°36	20°59	6° 6	18°38	14°27	12°14	11°37	17°59	0°25	F 14
S 15	1 35 22	21°57'06	19°33	14° 3	2° 3	28°12	27°35	21° 1	6° 6	18°36	14°27	12°D13	11°34	18° 6	0°22	S 15
S 16	1 39 19	22°56'34	2♂25	14°13	3°17	28°49	27°33	21° 3	6° 6	18°35	14°26	12°13	11°31	18°13	0°20	S 16
M17	1 43 15	23°56'05	14°57	14°R16	4°32	29°26	27°32	21° 5	6° 5	18°33	14°26	12°14	11°28	18°19	0°18	M17
T 18	1 47 12	24°55'37	27°12	14°12	5°46	0♂ 3	27°30	21° 7	6° 5	18°31	14°26	12°15	11°25	18°26	0°15	T 18
W19	1 51 8	25°55'12	9♂14	13°59	7° 1	0°41	27°29	21° 8	6° 5	18°30	14°26	12°16	11°21	18°33	0°13	W19
T 20	1 55 5	26°54'49	21° 8	13°38	8°16	1°19	27°29	21°10	6° 4	18°28	14°25	12°18	11°18	18°39	0°10	T 20
F 21	1 59 2	27°54'28	2♂57	13° 8	9°30	1°57	27°28	21°11	6° 4	18°26	14°25	12°19	11°15	18°46	0° 8	F 21
S 22	2 2 58	28°54'09	14°44	12°30	10°45	2°35	27°28	21°12	6° 3	18°25	14°25	12°R19	11°12	18°53	0° 5	S 22
S 23	2 6 55	29°53'53	26°32	11°42	12° 0	3°13	27°D28	21°14	6° 3	18°23	14°25	12°18	11° 9	18°59	0° 2	S 23
M24	2 10 51	0♂53'38	8♂22	10°47	13°15	3°52	27°28	21°15	6° 2	18°22	14°25	12°17	11° 6	19° 6	29♂59	M24
T 25	2 14 48	1°53'25	20°17	9°44	14°30	4°30	27°28	21°16	6° 1	18°20	14°25	12°14	11° 2	19°13	29°57	T 25
W26	2 18 44	2°53'14	2♂18	8°35	15°44	5° 9	27°28	21°17	6° 1	18°18	14°25	12°11	10°59	19°19	29°54	W26
T 27	2 22 41	3°53'06	14°29	7°22	16°59	5°48	27°29	21°17	6° 0	18°17	14°25	12° 7	10°56	19°26	29°52	T 27
F 28	2 26 37	4°52'58	26°50	6° 6	18°14	6°27	27°30	21°18	5°59	18°15	14°D25	12° 4	10°53	19°32	29°49	F 28
S 29	2 30 34	5°52'53	9♂25	4°49	19°29	7° 6	27°31	21°19	5°58	18°14	14°25	12° 1	10°50	19°39	29°46	S 29
S 30	2 34 31	6°52'49	22°16	3°34	20°44	7°46	27°32	21°19	5°57	18°12	14°25	11°59	10°47	19°46	29°43	S 30
M31	2 38 27	7♂52'47	5♂25	2♂24	21♂59	8♂25	27♂34	21♂19	5♂56	18♂10	14♂25	11°D58	10♂43	19♂52	29♂40	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	3s14	18s15	5n11	15s 0	2s30	7n13	1n18	25s 7	3s12	13s16	1s16	21n29	0s25	23n33	0n15	5n53	1s41	23s40	7s33	4s51	4s52	6s 9	16n58	3s25	
S 2	3 37	17 32	5 18	15 28	2 36	6 46	1 20	25 0	3 10	13 17	1 16	21 28	0 25	23 33	0 15	5 53	1 41	23 41	7 33	4 51	4 51	6 11	16 58	3 25	
M 3	4 0	15 52	5 9	15 56	2 42	6 18	1 21	24 53	3 8	13 18	1 16	21 28	0 25	23 33	0 15	5 52	1 41	23 41	7 33	4 51	4 49	6 13	16 57	3 26	
T 4	4 23	13 15	4 42	16 22	2 48	5 50	1 22	24 45	3 6	13 20	1 16	21 27	0 25	23 33	0 15	5 51	1 41	23 41	7 33	4 51	4 48	6 14	16 57	3 26	
W 5	4 46	9 48	3 58	16 46	2 54	5 22	1 23	24 38	3 4	13 21	1 16	21 27	0 25	23 33	0 15	5 51	1 41	23 41	7 33	4 51	4 47	6 16	16 56	3 26	
T 6	5 9	5 39	2 57	17 9	2 59	4 54	1 24	24 30	3 2	13 22	1 16	21 26	0 25	23 33	0 15	5 50	1 41	23 41	7 33	4 51	4 46	6 18	16 55	3 26	
F 7	5 32	1 3	1 43	17 31	3 3	4 26	1 25	24 22	3 0	13 23	1 16	21 26	0 25	23 33	0 15	5 49	1 41	23 41	7 33	4 51	4 44	6 20	16 55	3 27	
S 8	5 55	3n42	0 21	17 51	3 8	3 57	1 26	24 14	2 58	13 24	1 15	21 26	0 25	23 33	0 15	5 49	1 41	23 41	7 33	4 51	4 43	6 21	16 54	3 27	
S 9	6 18	8 14	1s 3	18 9	3 11	3 29	1 27	24 5	2 56	13 25	1 15	21 25	0 25	23 33	0 15	5 48	1 41	23 41	7 33	4 51	4 42	6 23	16 53	3 27	
M10	6 41	12 12	2 23	18 26	3 15	3 0	1 28	23 57	2 54	13 26	1 15	21 25	0 25	23 33	0 15	5 47	1 41	23 41	7 33	4 51	4 41	6 25	16 53	3 27	
T 11	7 3	15 19	3 31	18 40	3 17	2 31	1 29	23 48	2 52	13 26	1 15	21 25	0 24	23 33	0 15	5 47	1 41	23 41	7 32	4 51	4 39	6 26	16 52	3 28	
W12	7 26	17 21	4 24	18 52	3 19	2 2	1 29	23 39	2 50	13 27	1 15	21 24	0 24	23 33	0 15	5 46	1 41	23 41	7 32	4 50	4 38	6 28	16 51	3 28	
T 13	7 48	18 15	4 59	19 2	3 20	1 33	1 30	23 30	2 48	13 28	1 15	21 24	0 24	23 33	0 15	5 46	1 41	23 41	7 32	4 50	4 37	6 30	16 51	3 28	
F 14	8 11	18 1	5 16	19 9	3 20	1 4	1 30	23 21	2 46	13 28	1 15	21 24	0 24	23 33	0 15	5 45	1 41	23 41	7 32	4 50	4 36	6 32	16 50	3 28	
S 15	8 33	16 48	5 15	19 13	3 19	0 35	1 31	23 11	2 44	13 29	1 14	21 23	0 24	23 33	0 15	5 44	1 41	23 41	7 32	4 50	4 34	6 33	16 49	3 29	
S 16	8 55	14 46	4 58	19 15	3 18	0 5	1 31	23 2	2 42	13 29	1 14	21 23	0 24	23 33	0 15	5 44	1 41	23 41	7 32	4 50	4 33	6 35	16 49	3 29	
M17	9 17	12 5	4 28	19 13	3 14	0s24	1 31	22 52	2 40	13 29	1 14	21 23	0 24	23 33	0 15	5 43	1 41	23 41	7 32	4 50	4 32	6 37	16 48	3 29	
T 18	9 39	8 55	3 45	19 7	3 10	0 53	1 32	22 42	2 38	13 30	1 14	21 23	0 24	23 33	0 15	5 42	1 41	23 41	7 32	4 50	4 31	6 38	16 47	3 29	
W19	10 1	5 25	2 53	18 58	3 4	1 23	1 32	22 32	2 36	13 30	1 14	21 23	0 24	23 33	0 15	5 42	1 41	23 41	7 31	4 51	4 29	6 40	16 46	3 30	
T 20	10 22	1 45	1 55	18 44	2 57	1 52	1 32	22 22	2 34	13 30	1 14	21 22	0 24	23 33	0 15	5 41	1 41	23 41	7 31	4 51	4 28	6 42	16 46	3 30	
F 21	10 44	1s58	0 52	18 26	2 48	2 21	1 32	22 11	2 32	13 30	1 14	21 22	0 24	23 33	0 15	5 41	1 41	23 41	7 31	4 52	4 27	6 44	16 45	3 30	
S 22	11 5	5 36	0n13	18 4	2 37	2 51	1 32	22 0	2 30	13 30	1 13	21 22	0 24	23 33	0 16	5 40	1 41	23 41	7 31	4 52	4 26	6 45	16 44	3 30	
S 23	11 26	9 1	1 18	17 38	2 24	3 20	1 32	21 50	2 28	13 30	1 13	21 22	0 24	23 33	0 16	5 39	1 41	23 41	7 31	4 52	4 25	6 47	16 43	3 31	
M24	11 47	12 5	2 19	17 7	2 10	3 49	1 31	21 39	2 26	13 30	1 13	21 22	0 24	23 33	0 16	5 39	1 41	23 41	7 31	4 51	4 23	6 49	16 43	3 31	
T 25	12 8	14 41	3 15	16 32	1 54	4 19	1 31	21 28	2 24	13 30	1 13	21 22	0 24	23 33	0 16	5 38	1 41	23 41	7 31	4 50	4 22	6 50	16 42	3 31	
W26	12 28	16 39	4 2	15 53	1 36	4 48	1 31	21 16	2 22	13 29	1 13	21 22	0 24	23 33	0 16	5 37	1 41	23 40	7 30	4 49	4 21	6 52	16 41	3 31	
T 27	12 49	17 54	4 39	15 11	1 17	5 17	1 30	21 5	2 20	13 29	1 13	21 22	0 24	23 33	0 16	5 37	1 41	23 40	7 30	4 47	4 20	6 54	16 40	3 31	
F 28	13 9	18 20	5 4	14 27	0 57	5 46	1 30	20 53	2 18	13 28	1 13	21 21	0 24	23 33	0 16	5 36	1 41	23 40	7 30	4 46	4 18	6 55	16 40	3 32	
S 29	13 29	17 52	5 14	13 42	0 37	6 15	1 29	20 41	2 16	13 28	1 12	21 21	0 24	23 34	0 16	5 36	1 41	23 40	7 30	4 45	4 17	6 57	16 39	3 32	
S 30	13 48	16 30	5 10	12 57	0 16	6 43	1 29	20 29	2 14	13 27	1 12	21 21	0 23	23 34	0 16	5 35	1 41	23 40	7 30	4 44	4 16	6 59	16 38	3 32	
M31	14s 8	14s14	4n49	12s14	0n 4	7s12	1n28	20s17	2s13	13s27	1s12	21n21	0s23	23n34	0n16	5n35	1s40	23s40	7s30	4s44	4s15	7s 1	16n37	3s32	

# ASTRODIENST EPHEMERIS for the year 2033

## geocentric

NOVEMBER 2033

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 24	8♉52°46	18♊56	1°R20	23♈14	9♊ 5	27♊35	21♈20	5°R55	18°R 9	14♊25	11♈58	10♈40	19♈59	29°R37	T 1
W 2	2 46 20	9°52'47	2♊50	0♉24	24°29	9°45	27°37	21°R20	5♈54	18°V 7	14°25	11°59	10°37	20° 6	29♈34	W 2
T 3	2 50 17	10°52'50	17° 7	29♈39	25°44	10°25	27°39	21°20	5°53	18° 6	14°25	12° 1	10°34	20°12	29°31	T 3
F 4	2 54 13	11°52'54	1°V45	29° 4	26°59	11° 5	27°41	21°19	5°52	18° 4	14°25	12° 2	10°31	20°19	29°28	F 4
S 5	2 58 10	12°53'00	16°41	28°40	28°14	11°45	27°44	21°19	5°51	18° 3	14°25	12°R 2	10°27	20°26	29°25	S 5
S 6	3 2 6	13°53'07	1♊47	28°29	29°29	12°25	27°47	21°19	5°49	18° 1	14°26	12° 1	10°24	20°32	29°22	S 6
M 7	3 6 3	14°53'16	16°55	28°D28	0♉45	13° 5	27°49	21°18	5°48	18° 0	14°26	11°58	10°21	20°39	29°19	M 7
T 8	3 9 59	15°53'27	1♉56	28°39	2° 0	13°46	27°52	21°18	5°47	17°58	14°26	11°54	10°18	20°46	29°16	T 8
W 9	3 13 56	16°53'40	16°40	29° 0	3°15	14°26	27°56	21°17	5°45	17°57	14°27	11°49	10°15	20°52	29°13	W 9
T 10	3 17 53	17°53'55	1♈ 0	29°30	4°30	15° 7	27°59	21°16	5°44	17°56	14°27	11°43	10°12	20°59	29°10	T 10
F 11	3 21 49	18°54'12	14°52	0♉10	5°45	15°47	28° 3	21°15	5°42	17°54	14°27	11°38	10° 8	21° 6	29° 7	F 11
S 12	3 25 46	19°54'30	28°16	0°57	7° 1	16°28	28° 7	21°14	5°41	17°53	14°28	11°34	10° 5	21°12	29° 4	S 12
S 13	3 29 42	20°54'51	11♈12	1°50	8°16	17° 9	28°11	21°13	5°39	17°51	14°28	11°32	10° 2	21°19	29° 0	S 13
M14	3 33 39	21°55'14	23°45	2°50	9°31	17°50	28°15	21°12	5°38	17°50	14°29	11°D32	9°59	21°25	28°57	M14
T 15	3 37 35	22°55'38	5♉59	3°55	10°46	18°31	28°19	21°11	5°36	17°49	14°29	11°32	9°56	21°32	28°54	T 15
W16	3 41 32	23°56'04	17°58	5° 5	12° 2	19°12	28°24	21° 9	5°34	17°48	14°30	11°34	9°52	21°39	28°51	W16
T 17	3 45 28	24°56'32	29°49	6°19	13°17	19°54	28°28	21° 8	5°33	17°46	14°30	11°36	9°49	21°45	28°48	T 17
F 18	3 49 25	25°57'02	11♈35	7°36	14°32	20°35	28°33	21° 6	5°31	17°45	14°31	11°R36	9°46	21°52	28°44	F 18
S 19	3 53 22	26°57'34	23°22	8°56	15°48	21°16	28°38	21° 4	5°29	17°44	14°31	11°35	9°43	21°59	28°41	S 19
S 20	3 57 18	27°58'08	5♉12	10°18	17° 3	21°58	28°44	21° 2	5°27	17°43	14°32	11°32	9°40	22° 5	28°38	S 20
M21	4 1 15	28°58'43	17° 8	11°42	18°18	22°39	28°49	21° 0	5°25	17°41	14°33	11°27	9°37	22°12	28°35	M21
T 22	4 5 11	29°59'19	29°13	13° 8	19°34	23°21	28°55	20°58	5°23	17°40	14°33	11°20	9°33	22°19	28°31	T 22
W23	4 9 8	0♉59'57	11♈28	14°36	20°49	24° 3	29° 1	20°56	5°21	17°39	14°34	11°11	9°30	22°25	28°28	W23
T 24	4 13 4	2° 0'37	23°53	16° 4	22° 5	24°45	29° 7	20°54	5°19	17°38	14°35	11° 1	9°27	22°32	28°25	T 24
F 25	4 17 1	3° 1'18	6♈30	17°34	23°20	25°26	29°13	20°51	5°17	17°37	14°35	10°51	9°24	22°39	28°22	F 25
S 26	4 20 58	4° 2'00	19°18	19° 4	24°35	26° 8	29°19	20°49	5°15	17°36	14°36	10°42	9°21	22°45	28°19	S 26
S 27	4 24 54	5° 2'43	2♊18	20°35	25°51	26°50	29°26	20°46	5°13	17°35	14°37	10°35	9°18	22°52	28°15	S 27
M28	4 28 51	6° 3'27	15°32	22° 7	27° 6	27°32	29°32	20°43	5°11	17°34	14°38	10°31	9°14	22°59	28°12	M28
T 29	4 32 47	7° 4'12	29° 1	23°38	28°22	28°14	29°39	20°41	5° 9	17°33	14°39	10°29	9°11	23° 5	28° 9	T 29
W30	4 36 44	8♉ 4'58	12♈45	25♉11	29♉37	28♊56	29♊46	20♈38	5♈ 7	17°V32	14♊40	10°D29	9♈ 8	23♈12	28♈ 6	W30

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	14s27	11s 9	4n12	11s34	0n24	7s40	1n27	20s 5	2s11	13s26	1s12	21n21	0s23	23n34	0n16	5n34	1s40	23s40	7s30	4s44	4s13	7s 2	16n36	3s32			
W 2	14 46	7 22	3 19	10 57	0 43	8 9	1 27	19 52	2 9	13 25	1 12	21 22	0 23	23 34	0 16	5 33	1 40	23 39	7 29	4 44	4 12	7 4	16 36	3 32			
T 3	15 5	3 3	2 13	10 24	1 0	8 37	1 26	19 40	2 7	13 24	1 12	21 22	0 23	23 34	0 16	5 33	1 40	23 39	7 29	4 45	4 11	7 6	16 35	3 33			
F 4	15 24	1n33	0 56	9 57	1 16	9 5	1 25	19 27	2 5	13 23	1 11	21 22	0 23	23 34	0 16	5 32	1 40	23 39	7 29	4 45	4 10	7 7	16 34	3 33			
S 5	15 42	6 10	0s25	9 36	1 30	9 32	1 24	19 14	2 3	13 22	1 11	21 22	0 23	23 34	0 16	5 32	1 40	23 39	7 29	4 45	4 8	7 9	16 33	3 33			
S 6	16 0	10 26	1 46	9 21	1 42	10 0	1 23	19 1	2 1	13 21	1 11	21 22	0 23	23 34	0 16	5 31	1 40	23 39	7 29	4 45	4 7	7 11	16 32	3 33			
M 7	16 18	14 1	2 59	9 11	1 52	10 27	1 22	18 48	2 0	13 20	1 11	21 22	0 23	23 34	0 16	5 31	1 40	23 38	7 29	4 44	4 6	7 12	16 32	3 33			
T 8	16 35	16 38	4 0	9 7	2 1	10 54	1 21	18 34	1 58	13 19	1 11	21 22	0 23	23 34	0 16	5 30	1 40	23 38	7 29	4 42	4 5	7 14	16 31	3 33			
W 9	16 53	18 5	4 42	9 8	2 7	11 21	1 19	18 21	1 56	13 18	1 11	21 22	0 23	23 34	0 16	5 30	1 40	23 38	7 29	4 40	4 3	7 16	16 30	3 34			
T 10	17 10	18 19	5 6	9 14	2 12	11 48	1 18	18 7	1 54	13 16	1 10	21 22	0 23	23 34	0 16	5 29	1 40	23 38	7 28	4 38	4 2	7 17	16 29	3 34			
F 11	17 26	17 27	5 11	9 24	2 16	12 14	1 17	17 53	1 52	13 15	1 10	21 23	0 23	23 34	0 16	5 29	1 40	23 37	7 28	4 36	4 1	7 19	16 28	3 34			
S 12	17 43	15 37	4 59	9 38	2 18	12 40	1 15	17 39	1 51	13 13	1 10	21 23	0 23	23 35	0 16	5 28	1 40	23 37	7 28	4 35	4 0	7 21	16 28	3 34			
S 13	17 59	13 4	4 31	9 56	2 19	13 5	1 14	17 25	1 49	13 12	1 10	21 23	0 23	23 35	0 16	5 28	1 40	23 37	7 28	4 34	3 58	7 22	16 27	3 34			
M14	18 14	9 58	3 51	10 17	2 19	13 31	1 12	17 11	1 47	13 10	1 10	21 23	0 23	23 35	0 16	5 27	1 40	23 37	7 28	4 33	3 57	7 24	16 26	3 34			
T 15	18 30	6 30	3 2	10 40	2 18	13 56	1 11	16 56	1 45	13 9	1 10	21 24	0 23	23 35	0 16	5 27	1 40	23 36	7 28	4 34	3 56	7 26	16 25	3 34			
W16	18 45	2 50	2 5	11 5	2 15	14 20	1 9	16 42	1 44	13 7	1 9	21 24	0 22	23 35	0 16	5 26	1 40	23 36	7 28	4 34	3 55	7 28	16 24	3 35			
T 17	19 0	0s54	1 4	11 32	2 13	14 45	1 8	16 27	1 42	13 5	1 9	21 24	0 22	23 35	0 16	5 26	1 40	23 36	7 27	4 35	3 53	7 29	16 24	3 35			
F 18	19 14	4 35	0 0	12 0	2 9	15 9	1 6	16 12	1 40	13 3	1 9	21 25	0 22	23 35	0 16	5 25	1 40	23 36	7 27	4 35	3 52	7 31	16 23	3 35			
S 19	19 28	8 6	1n 3	12 30	2 5	15 32	1 4	15 58	1 38	13 1	1 9	21 25	0 22	23 35	0 16	5 25	1 40	23 35	7 27	4 35	3 51	7 33	16 22	3 35			
S 20	19 42	11 18	2 4	13 0	2 0	15 55	1 2	15 42	1 37	12 59	1 9	21 25	0 22	23 35	0 16	5 24	1 40	23 35	7 27	4 34	3 50	7 34	16 21	3 35			
M21	19 55	14 4	3 0	13 31	1 55	16 18	1 1	15 27	1 35	12 57	1 9	21 26	0 22	23 35	0 16	5 24	1 40	23 35	7 27	4 32	3 48	7 36	16 20	3 35			
T 22	20 9	16 16	3 48	14 2	1 50	16 41	0 59	15 12	1 33	12 55	1 8	21 26	0 22	23 35	0 16	5 24	1 40	23 34	7 27	4 29	3 47	7 38	16 20	3 35			
W23	20 21	17 45	4 27	14 33	1 44	17 2	0 57	14 57	1 32	12 53	1 8	21 26	0 22	23 36	0 16	5 23	1 40	23 34	7 27	4 25	3 46	7 39	16 19	3 35			
T 24	20 33	18 25	4 53	15 5	1 38	17 24	0 55	14 41	1 30	12 51	1 8	21 27	0 22	23 36	0 16	5 23	1 40	23 34	7 27	4 21	3 45	7 41	16 18	3 35			
F 25	20 45	18 11	5 5	15 36	1 31	17 45	0 53	14 25	1 28	12 48	1 8	21 27	0 22	23 36	0 16	5 22	1 40	23 33	7 26	4 18	3 43	7 43	16 17	3 35			
S 26	20 57	17 3	5 3	16 7	1 25	18 5	0 51	14 10	1 27	12 46	1 8	21 28	0 22	23 36	0 16	5 22	1 40	23 33	7 26	4 14	3 42	7 44	16 17	3 35			
S 27	21 8	15 1	4 45	16 38	1 18	18 25	0 49	13 54	1 25	12 44	1 8	21 28	0 22	23 36	0 16	5 22	1 40	23 33	7 26	4 11	3 41	7 46	16 16	3 35			
M28	21 19	12 10	4 11	17 9	1 11	18 45	0 47	13 38	1 23	12 41	1 8	21 29	0 22	23 36	0 16	5 21	1 40	23 32	7 26	4 10	3 40	7 48	16 15	3 36			
T 29	21 29	8 38	3 23	17 38	1 4	19 4	0 45	13 22	1 22	12 39	1 7	21 29	0 22	23 36	0 16	5 21	1 40	23 32	7 26	4 9	3 38	7 49	16 14	3 36			
W30	21s39	4s34	2n23	18s 8	0n57	19s22	0n42	13s 6	1s20	12s36	1s 7	21n30	0s21	23n36	0n16	5n21	1s40	23s31	7s26	4s 9	3s37	7s51	16m13	3s36			

## ASTRODIENST EPHEMERIS for the year 2033

geocentric

DECEMBER 2033

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s48	0s10	1n13	18s36	0n50	19s40	0n40	12s49	1s19	12s33	1s7	21n30	0s21	23n36	0n16	5n20
F 2	21s58	4n20	0s3	19s4	0s43	19s58	0s38	12s33	1s17	12s31	1s7	21s31	0s21	23s36	0s16	5s20
S 3	22s6	8s39	1s20	19s31	0s36	20s14	0s36	12s16	1s15	12s28	1s7	21s31	0s21	23s37	0s16	5s20
S 4	22s14	12s30	2s32	19s58	0s29	20s31	0s34	12s0	1s14	12s25	1s7	21s32	0s21	23s37	0s16	5s20
M 5	22s22	15s35	3s35	20s23	0s22	20s46	0s31	11s43	1s12	12s22	1s6	21s33	0s21	23s37	0s16	5s19
T 6	22s30	17s36	4s23	20s48	0s14	21s1	0s29	11s26	1s11	12s19	1s6	21s33	0s21	23s37	0s16	5s19
W 7	22s37	18s27	4s52	21s11	0s7	21s16	0s27	11s10	1s9	12s16	1s6	21s34	0s21	23s37	0s16	5s19
T 8	22s43	18s6	5s3	21s34	0s0	21s30	0s24	10s53	1s8	12s13	1s6	21s34	0s21	23s37	0s16	5s19
F 9	22s49	16s39	4s55	21s55	0s6	21s43	0s22	10s36	1s6	12s10	1s6	21s35	0s21	23s37	0s16	5s18
S 10	22s55	14s19	4s31	22s16	0s13	21s55	0s20	10s19	1s5	12s7	1s6	21s36	0s21	23s37	0s16	5s18
S 11	23s0	11s20	3s54	22s35	0s20	22s7	0s17	10s2	1s3	12s4	1s6	21s36	0s21	23s37	0s16	5s18
M 12	23s4	7s55	3s5	22s54	0s27	22s19	0s15	9s44	1s2	12s0	1s6	21s37	0s20	23s38	0s16	5s18
T 13	23s9	4s14	2s10	23s11	0s33	22s29	0s12	9s27	1s0	11s57	1s5	21s38	0s20	23s38	0s16	5s18
W 14	23s12	0s27	1s9	23s27	0s39	22s39	0s10	9s10	0s59	11s54	1s5	21s38	0s20	23s38	0s16	5s18
T 15	23s16	3s17	0s7	23s42	0s46	22s48	0s8	8s52	0s57	11s50	1s5	21s39	0s20	23s38	0s17	5s17
F 16	23s19	6s53	0s56	23s55	0s58	22s57	0s5	8s35	0s56	11s47	1s5	21s40	0s20	23s38	0s17	5s17
S 17	23s21	10s13	1s55	24s8	0s52	23s5	0s3	8s17	0s55	11s43	1s5	21s40	0s20	23s38	0s17	5s17
S 18	23s23	13s10	2s51	24s19	1s4	23s12	0s0	8s0	0s53	11s40	1s5	21s41	0s20	23s38	0s17	5s17
M 19	23s24	15s36	3s39	24s29	1s9	23s18	0s2	7s42	0s52	11s36	1s5	21s42	0s20	23s38	0s17	5s17
T 20	23s25	17s22	4s18	24s37	1s15	23s24	0s4	7s25	0s50	11s33	1s5	21s42	0s20	23s38	0s17	5s17
W 21	23s26	18s20	4s45	24s45	1s20	23s29	0s7	7s7	0s49	11s29	1s4	21s43	0s20	23s38	0s17	5s17
T 22	23s26	18s25	4s59	24s51	1s25	23s33	0s9	6s49	0s48	11s25	1s4	21s44	0s20	23s38	0s17	5s17
F 23	23s25	17s33	4s58	24s55	1s30	23s37	0s12	6s31	0s46	11s21	1s4	21s45	0s19	23s39	0s17	5s17
S 24	23s25	15s45	4s40	24s59	1s34	23s40	0s14	6s13	0s45	11s17	1s4	21s45	0s19	23s39	0s17	5s17
S 25	23s23	13s5	4s8	25s0	1s39	23s42	0s16	5s55	0s43	11s14	1s4	21s46	0s19	23s39	0s17	5s17
M 26	23s21	9s42	3s21	25s1	1s43	23s43	0s19	5s38	0s42	11s10	1s4	21s47	0s19	23s39	0s17	5s17
T 27	23s19	5s45	2s22	25s0	1s47	23s44	0s21	5s20	0s41	11s6	1s4	21s48	0s19	23s39	0s17	5s17
W 28	23s16	1s28	1s14	24s57	1s50	23s44	0s23	5s2	0s39	11s2	1s4	21s48	0s19	23s39	0s17	5s17
T 29	23s13	2n57	0s1	24s53	1s54	23s43	0s26	4s44	0s38	10s58	1s4	21s49	0s19	23s39	0s17	5s17
F 30	23s9	7s15	1s13	24s48	1s57	23s41	0s28	4s26	0s37	10s53	1s3	21s50	0s19	23s39	0s17	5s17
S 31	23s5	11n10	2s23	24s41	1s59	23s39	0s30	4s7	0s36	10s49	1s3	21n51	0s19	23n39	0n17	5n17

Julian Day Number = 2463932.5, Delta T = 70.24 sec

Ecliptic obliquity = 23°25'56", Nutation = 0°00'02", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°12'51", Lahiri = 24°19'51"