



# Astrodienst Ephemeris Tables for the year 1969

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 1969  
geocentric

JANUARY 1969

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 41 52	10°32'41"10	10°11'17	24°32'32	25°38'40	1°11'11	5°27'18	18°48'48	3°59'27	27°47'47	25°R 6	4°R37	4°Y37	21°11'56	29°48'4	W 1
T 2	6 45 49	11°25'18	22° 8	26° 7	26°48	1°45	5°31	18°49	3°59	27°48	25°R 6	4°Y24	4°34	22° 3	29° 5	T 2
F 3	6 49 45	12°26'26	4°26	27°40	27°56	2°19	5°34	18°50	4° 0	27°50	25° 6	4° 9	4°30	22°10	29° 7	F 3
S 4	6 53 42	13°27'35	16° 0	29°13	29° 3	2°53	5°37	18°52	4° 0	27°52	25° 6	3°54	4°27	22°16	29° 8	S 4
S 5	6 57 39	14°28'43	28° 2	0°44	0°11	3°27	5°40	18°53	4° 0	27°54	25° 5	3°40	4°24	22°23	29° 9	S 5
M 6	7 1 35	15°29'51	10°10	2°14	1°18	4° 1	5°43	18°55	4° 0	27°55	25° 5	3°28	4°21	22°30	29°11	M 6
T 7	7 5 32	16°30'59	22°25	3°43	2°25	4°34	5°46	18°57	4° 0	27°57	25° 5	3°19	4°18	22°37	29°12	T 7
W 8	7 9 28	17°32'08	4°10	5° 9	3°32	5° 8	5°48	18°59	4°R 1	27°59	25° 5	3°13	4°15	22°43	29°14	W 8
T 9	7 13 25	18°33'16	17°50	6°33	4°39	5°41	5°51	19° 1	4° 1	28° 0	25° 4	3° 9	4°11	22°50	29°15	T 9
F 10	7 17 21	19°34'24	0°15	7°53	5°45	6°15	5°53	19° 3	4° 0	28° 2	25° 4	3°D 8	4° 8	22°57	29°17	F 10
S 11	7 21 18	20°35'32	13°22	9°10	6°52	6°48	5°55	19° 5	4° 0	28° 3	25° 3	3° 8	4° 5	23° 3	29°19	S 11
S 12	7 25 14	21°36'40	26°50	10°23	7°57	7°22	5°56	19° 7	4° 0	28° 5	25° 3	3°R 8	4° 2	23°10	29°20	S 12
M13	7 29 11	22°37'48	10°11	11°31	9° 3	7°55	5°58	19°10	4° 0	28° 6	25° 2	3° 7	3°59	23°17	29°22	M13
T 14	7 33 8	23°38'56	24°58	12°33	10° 9	8°28	5°59	19°12	4° 0	28° 8	25° 2	3° 4	3°56	23°24	29°24	T 14
W15	7 37 4	24°40'04	9°37	13°29	11°14	9° 1	6° 0	19°15	3°59	28° 9	25° 1	2°57	3°52	23°30	29°26	W15
T 16	7 41 1	25°41'12	24°34	14°18	12°19	9°34	6° 1	19°17	3°59	28°11	25° 0	2°49	3°49	23°37	29°28	T 16
F 17	7 44 57	26°42'20	9°31	14°58	13°23	10° 7	6° 2	19°20	3°58	28°12	25° 0	2°39	3°46	23°44	29°30	F 17
S 18	7 48 54	27°43'27	24°49	15°29	14°28	10°40	6° 3	19°23	3°58	28°13	24°59	2°28	3°43	23°50	29°32	S 18
S 19	7 52 50	28°44'33	9°46	15°51	15°32	11°12	6° 3	19°26	3°57	28°15	24°58	2°19	3°40	23°57	29°34	S 19
M20	7 56 47	29°45'39	24°25	16°R 1	16°35	11°45	6° 3	19°29	3°57	28°16	24°58	2°11	3°36	24° 4	29°36	M20
T 21	8 0 44	0°46'44	8°38	16° 1	17°39	12°17	6°R 3	19°32	3°56	28°17	24°57	2° 6	3°33	24°11	29°38	T 21
W22	8 4 40	1°47'48	22°22	15°49	18°42	12°50	6° 3	19°36	3°55	28°19	24°56	2° 4	3°30	24°17	29°40	W22
T 23	8 8 37	2°48'51	5°Y37	15°25	19°44	13°22	6° 3	19°39	3°55	28°20	24°55	2°D 3	3°27	24°24	29°42	T 23
F 24	8 12 33	3°49'53	18°27	14°50	20°47	13°54	6° 2	19°43	3°54	28°21	24°55	2° 4	3°24	24°31	29°45	F 24
S 25	8 16 30	4°50'54	0°55	14° 5	21°49	14°26	6° 1	19°46	3°53	28°22	24°54	2°R 5	3°21	24°38	29°47	S 25
S 26	8 20 26	5°51'54	13° 6	13°10	22°50	14°58	6° 1	19°50	3°52	28°23	24°53	2° 5	3°17	24°44	29°49	S 26
M27	8 24 23	6°52'53	25° 6	12° 7	23°51	15°30	5°59	19°54	3°51	28°24	24°52	2° 3	3°14	24°51	29°52	M27
T 28	8 28 19	7°53'51	6°11	10°58	24°52	16° 2	5°58	19°58	3°50	28°26	24°51	1°58	3°11	24°58	29°54	T 28
W29	8 32 16	8°54'47	18°49	9°45	25°52	16°33	5°57	20° 2	3°49	28°27	24°50	1°52	3° 8	25° 4	29°57	W29
T 30	8 36 13	9°55'43	0°42	8°30	26°52	17° 5	5°55	20° 6	3°48	28°28	24°49	1°43	3° 5	25°11	29°59	T 30
F 31	8 40 9	10°56'37	12°38	7°15	27°51	17°11	5°53	20°10	3°46	28°29	24°48	1°Y33	3°Y 2	25°18	0°Y 2	F 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
W 1	23s 2	26n30	4n33	23s17	2s 6	14s30	1s38	10s35	1n24	0s58	1n18	5n 1	2s32	0s54	0n45	18s 2
T 2	22 57	28 5	4 53	22 57	2 3	14 4	1 35	10 47	1 24	0 59	1 18	5 2	2 32	0 54	0 45	18 3
F 3	22 52	28 22	4 59	22 35	2 0	13 38	1 32	10 58	1 24	1 1	1 19	5 2	2 32	0 54	0 45	18 3
S 4	22 46	27 20	4 53	22 12	1 56	13 11	1 28	11 10	1 24	1 2	1 19	5 3	2 32	0 54	0 45	18 3
S 5	22 40	25 1	4 33	21 48	1 51	12 44	1 25	11 21	1 24	1 3	1 19	5 4	2 31	0 54	0 45	18 4
M 6	22 33	21 34	4 1	21 23	1 45	12 17	1 21	11 33	1 23	1 3	1 20	5 5	2 31	0 54	0 45	18 4
T 7	22 25	17 9	3 17	20 56	1 39	11 49	1 17	11 44	1 23	1 4	1 20	5 6	2 31	0 54	0 45	18 4
W 8	22 18	11 58	2 24	20 28	1 32	11 21	1 14	11 56	1 23	1 5	1 20	5 7	2 31	0 54	0 45	18 5
T 9	22 10	6 14	1 22	20 0	1 24	10 53	1 10	12 7	1 23	1 6	1 20	5 8	2 30	0 54	0 45	18 5
F 10	22 1	0 8	0 15	19 31	1 15	10 25	1 6	12 18	1 23	1 6	1 21	5 9	2 30	0 54	0 45	18 5
S 11	21 52	6s 7	0s54	19 1	1 5	9 57	1 1	12 29	1 23	1 7	1 21	5 10	2 30	0 54	0 45	18 6
S 12	21 43	12 15	2 2	18 31	0 54	9 28	0 57	12 40	1 23	1 7	1 21	5 11	2 29	0 54	0 45	18 6
M13	21 33	17 58	3 5	18 1	0 43	8 59	0 53	12 51	1 23	1 7	1 21	5 12	2 29	0 54	0 45	18 6
T 14	21 22	22 52	3 59	17 31	0 30	8 31	0 48	13 2	1 23	1 8	1 22	5 13	2 29	0 54	0 45	18 7
W15	21 12	26 29	4 38	17 2	0 16	8 1	0 43	13 12	1 22	1 8	1 22	5 15	2 29	0 54	0 45	18 7
T 16	21 1	28 19	4 59	16 34	0 1	7 32	0 39	13 23	1 22	1 8	1 22	5 16	2 28	0 53	0 45	18 7
F 17	20 19	28 5	5 0	16 7	0n14	7 3	0 34	13 33	1 22	1 8	1 23	5 17	2 28	0 53	0 45	18 7
S 18	20 37	25 45	4 40	15 42	0 31	6 33	0 29	13 44	1 22	1 8	1 23	5 19	2 28	0 53	0 45	18 8
S 19	20 25	21 40	4 1	15 19	0 48	6 4	0 23	13 54	1 22	1 8	1 23	5 20	2 28	0 53	0 45	18 8
M20	20 12	16 19	3 6	14 59	1 6	5 34	0 18	14 4	1 22	1 8	1 23	5 21	2 27	0 52	0 45	18 8
T 21	19 59	10 13	2 2	14 42	1 24	5 5	0 13	14 14	1 21	1 8	1 24	5 23	2 27	0 52	0 45	18 8
W22	19 46	3 49	0 52	14 28	1 42	4 35	0 7	14 24	1 21	1 7	1 24	5 24	2 27	0 52	0 45	18 9
T 23	19 32	2n32	0n19	14 18	2 0	4 5	0 1	14 34	1 21	1 7	1 24	5 26	2 26	0 51	0 45	18 9
F 24	19 18	8 34	1 27	14 11	2 18	3 35	0n 4	14 44	1 21	1 6	1 24	5 27	2 26	0 51	0 46	18 9
S 25	19 3	14 6	2 28	14 8	2 35	3 5	0 10	14 53	1 21	1 6	1 25	5 29	2 26	0 51	0 46	18 9
S 26	18 49	18 58	3 21	14 9	2 50	2 36	0 16	15 3	1 21	1 5	1 25	5 31	2 26	0 50	0 46	18 9
M27	18 33	23 0	4 5	14 14	3 3	2 6	0 23	15 12	1 20	1 4	1 25	5 32	2 25	0 50	0 46	18 10
T 28	18 18	26 2	4 37	14 21	3 15	1 36	0 29	15 22	1 20	1 4	1 26	5 34	2 25	0 49	0 46	18 10
W29	18 2	27 55	4 58	14 32	3 24	1 6	0 35	15 31	1 20	1 3	1 26	5 36	2 25	0 49	0 46	18 10
T 30	17 46	28 32	5 5	14 44	3 31	0 36	0 42	15 40	1 20	1 2	1 26	5 37	2 25	0 49	0 46	18 10
F 31	17s29	27n49	5n 0	14s59	3n36	0s 7	0n48	15s49	1n19	1s 1	1n26	5n39	2s24	0s48	0n46	18s10

Julian Day Number = 2440222.5, Delta T = 39.20 sec  
Ecliptic obliquity = 23°26'44", Nutation = - 0°00'01", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°18'26", Lahiri = 23°25'27"

# ASTRODIENST EPHEMERIS for the year 1969

## geocentric

FEBRUARY 1969

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 6	11 <sup>57</sup> 30	24 <sup>42</sup>	6°R 3	28 <sup>50</sup>	18 <sup>7</sup>	5°R51	20 <sup>14</sup>	3°R45	28 <sup>30</sup>	24°R47	1°R23	2°V58	25 <sup>25</sup>	0°V 4	S 1
S 2	8 48 2	12°58'22	6 <sup>53</sup>	4 <sup>55</sup>	29°49	18°39	5 <sup>49</sup>	20°18	3 <sup>44</sup>	28°30	24 <sup>46</sup>	1°V14	2°55	25°31	0° 7	S 2
M 3	8 51 59	13°59'13	19°14	3°53	0°V46	19°10	5°46	20°23	3°42	28°31	24°45	1° 5	2°52	25°38	0°10	M 3
T 4	8 55 55	15° 0'03	1 <sup>45</sup>	2°58	1°44	19°40	5°43	20°27	3°41	28°32	24°43	0°59	2°49	25°45	0°12	T 4
W 5	8 59 52	16° 0'51	14°26	2°10	2°40	20°11	5°41	20°32	3°40	28°33	24°42	0°56	2°46	25°51	0°15	W 5
T 6	9 3 48	17° 1'39	27°18	1°31	3°36	20°42	5°38	20°37	3°38	28°34	24°41	0°D54	2°42	25°58	0°18	T 6
F 7	9 7 45	18° 2'25	10 <sup>22</sup>	1° 0	4°32	21°12	5°34	20°41	3°37	28°35	24°40	0°55	2°39	26° 5	0°20	F 7
S 8	9 11 42	19° 3'11	23°39	0°37	5°27	21°43	5°31	20°46	3°35	28°35	24°39	0°56	2°36	26°12	0°23	S 8
S 9	9 15 38	20° 3'55	7 <sup>12</sup>	0°22	6°21	22°13	5°27	20°51	3°33	28°36	24°37	0°57	2°33	26°18	0°26	S 9
M10	9 19 35	21° 4'39	21° 0	0°D15	7°15	22°43	5°24	20°56	3°32	28°37	24°36	0°R58	2°30	26°25	0°29	M10
T 11	9 23 31	22° 5'22	5 <sup>5</sup>	0°16	8° 8	23°13	5°20	21° 1	3°30	28°37	24°35	0°57	2°27	26°32	0°32	T 11
W12	9 27 28	23° 6'03	19°25	0°24	9° 0	23°42	5°16	21° 6	3°28	28°38	24°34	0°55	2°23	26°39	0°35	W12
T 13	9 31 24	24° 6'44	3 <sup>59</sup>	0°38	9°51	24°12	5°12	21°11	3°27	28°38	24°32	0°51	2°20	26°45	0°38	T 13
F 14	9 35 21	25° 7'23	18°39	0°58	10°42	24°41	5° 7	21°17	3°25	28°39	24°31	0°45	2°17	26°52	0°41	F 14
S 15	9 39 17	26° 8'02	3 <sup>22</sup>	1°24	11°32	25°11	5° 3	21°22	3°23	28°39	24°30	0°40	2°14	26°59	0°44	S 15
S 16	9 43 14	27° 8'38	1 <sup>58</sup>	1°56	12°21	25°40	4°58	21°27	3°21	28°40	24°28	0°35	2°11	27° 5	0°47	S 16
M17	9 47 11	28° 9'14	2 <sup>21</sup>	2°32	13° 9	26° 9	4°53	21°33	3°19	28°40	24°27	0°31	2° 8	27°12	0°50	M17
T 18	9 51 7	29° 9'47	16°25	3°12	13°56	26°37	4°48	21°39	3°17	28°41	24°25	0°28	2° 4	27°19	0°53	T 18
W19	9 55 4	0 <sup>10</sup> 19	0°V 6	3°56	14°43	27° 6	4°43	21°44	3°15	28°41	24°24	0°D28	2° 1	27°26	0°56	W19
T 20	9 59 0	1°10'49	13°24	4°45	15°28	27°34	4°37	21°50	3°13	28°41	24°22	0°28	1°58	27°32	0°59	T 20
F 21	10 2 57	7°13'12	26°18	5°36	16°13	28° 2	4°32	21°56	3°11	28°42	24°21	0°30	1°55	27°39	1° 3	F 21
S 22	10 6 53	3°11'44	8 <sup>50</sup>	6°31	16°56	28°30	4°26	22° 1	3° 9	28°42	24°19	0°31	1°52	27°46	1° 6	S 22
S 23	10 10 50	4°12'09	21° 6	7°29	17°38	28°58	4°20	22° 7	3° 7	28°42	24°18	0°33	1°48	27°52	1° 9	S 23
M24	10 14 46	5°12'32	3 <sup>11</sup>	8°29	18°19	29°25	4°15	22°13	3° 4	28°42	24°17	0°R34	1°45	27°59	1°12	M24
T 25	10 18 43	6°12'53	15° 4	9°33	18°59	29°53	4° 9	22°19	3° 2	28°42	24°15	0°33	1°42	28° 6	1°16	T 25
W26	10 22 40	7°13'12	26°56	10°38	19°38	0 <sup>20</sup>	4° 2	22°26	3° 0	28°42	24°13	0°32	1°39	28°13	1°19	W26
T 27	10 26 36	8°13'29	8 <sup>50</sup>	11°46	20°16	0°47	3°56	22°32	2°58	28°43	24°12	0°29	1°36	28°19	1°22	T 27
F 28	10 30 33	9 <sup>13</sup> 45	20 <sup>49</sup>	12 <sup>55</sup>	20°V52	1 <sup>14</sup>	3 <sup>50</sup>	22°V38	2 <sup>55</sup>	28 <sup>43</sup>	24 <sup>10</sup>	0°V26	1°V33	28 <sup>12</sup> 26	1°V26	F 28

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
S 1	17s13	25n48	4n41	15s15	3n38	0n23	0n55	15s58	1n19	1s 0	1n27	5n41	2s24	0s47	0n46	18s11	1n42	16n32	15n48	0n33	1n11	28n28	2n48	3n 1
S 2	16 56	22 34	4 9	15 31	3 37	0 52	1 2	16 7	1 19	0 59	1 27	5 43	2 24	0 47	0 46	18 11	1 42	16 33	15 49	0 29	1 10	28 28	2 49	3 1
M 3	16 38	18 18	3 25	15 48	3 35	1 22	1 9	16 16	1 19	0 58	1 27	5 45	2 24	0 46	0 46	18 11	1 42	16 34	15 49	0 26	1 8	28 29	2 50	3 1
T 4	16 20	13 12	2 31	16 6	3 30	1 51	1 16	16 24	1 18	0 56	1 27	5 47	2 24	0 46	0 46	18 11	1 42	16 35	15 49	0 24	1 7	28 29	2 51	3 1
W 5	16 2	7 29	1 28	16 22	3 24	2 20	1 23	16 33	1 18	0 55	1 28	5 48	2 23	0 45	0 46	18 11	1 42	16 36	15 50	0 22	1 6	28 29	2 52	3 1
T 6	15 44	1 23	0 20	16 39	3 16	2 49	1 30	16 41	1 18	0 53	1 28	5 50	2 23	0 45	0 46	18 11	1 42	16 36	15 50	0 22	1 5	28 30	2 53	3 0
F 7	15 26	4s53	0s51	16 54	3 7	3 18	1 38	16 49	1 17	0 52	1 28	5 52	2 23	0 44	0 46	18 11	1 42	16 37	15 51	0 22	1 3	28 30	2 53	3 0
S 8	15 7	11 3	2 0	17 9	2 57	3 46	1 45	16 57	1 17	0 50	1 28	5 54	2 23	0 43	0 46	18 11	1 42	16 38	15 51	0 22	1 2	28 30	2 54	3 0
S 9	14 48	16 49	3 4	17 22	2 46	4 15	1 53	17 6	1 17	0 49	1 29	5 56	2 22	0 43	0 46	18 12	1 42	16 39	15 51	0 23	1 1	28 30	2 55	3 0
M10	14 29	21 50	3 58	17 35	2 35	4 43	2 0	17 14	1 16	0 47	1 29	5 59	2 22	0 42	0 46	18 12	1 42	16 40	15 52	0 23	1 0	28 31	2 56	3 0
T 11	14 9	25 44	4 40	17 46	2 23	5 11	2 8	17 21	1 16	0 45	1 29	6 1	2 22	0 41	0 46	18 12	1 42	16 41	15 52	0 23	0 58	28 31	2 57	3 0
W12	13 49	28 5	5 4	17 56	2 11	5 39	2 16	17 29	1 16	0 43	1 29	6 3	2 22	0 41	0 46	18 12	1 42	16 41	15 52	0 22	0 57	28 31	2 58	2 59
T 13	13 29	28 33	5 10	18 5	1 59	6 7	2 24	17 37	1 15	0 42	1 30	6 5	2 22	0 40	0 46	18 12	1 42	16 42	15 53	0 20	0 56	28 32	3 0	2 59
F 14	13 9	27 1	4 56	18 13	1 47	6 34	2 32	17 44	1 15	0 40	1 30	6 7	2 21	0 39	0 46	18 12	1 42	16 43	15 53	0 18	0 55	28 32	3 1	2 59
S 15	12 49	23 39	4 22	18 19	1 35	7 1	2 40	17 52	1 14	0 38	1 30	6 9	2 21	0 38	0 46	18 12	1 42	16 44	15 53	0 16	0 53	28 32	3 2	2 59
S 16	12 28	18 48	3 31	18 24	1 22	7 28	2 48	17 59	1 14	0 36	1 30	6 11	2 21	0 38	0 46	18 12	1 43	16 45	15 54	0 14	0 52	28 32	3 3	2 59
M17	12 7	12 56	2 27	18 27	1 11	7 54	2 57	18 6	1 14	0 33	1 30	6 14	2 21	0 37	0 46	18 12	1 43	16 45	15 54	0 12	0 51	28 32	3 4	2 59
T 18	11 46	6 32	1 16	18 30	0 59	8 20	3 5	18 13	1 13	0 31	1 31	6 16	2 21	0 36	0 46	18 12	1 43	16 46	15 54	0 11	0 49	28 33	3 5	2 59
W19	11 25	0n 1	0 2	18 30	0 47	8 46	3 13	18 20	1 13	0 29	1 31	6 18	2 20	0 35	0 46	18 12	1 43	16 47	15 54	0 11	0 48	28 33	3 6	2 58
T 20	11 3	6 22	1n10	18 30	0 36	9 12	3 22	18 27	1 12	0 27	1 31	6 20	2 20	0 34	0 46	18 12	1 43	16 48	15 55	0 11	0 47	28 33	3 7	2 58
F 21	10 42	12 16	2 17	18 28	0 25	9 37	3 31	18 34	1 12	0 24	1 31	6 23	2 20	0 33	0 46	18 12	1 43	16 49	15 55	0 12	0 46	28 33	3 8	2 58
S 22	10 20	17 32	3 15	18 25	0 14	10 2	3 39	18 41	1 11	0 22	1 32	6 25	2 20	0 33	0 46	18 12	1 43	16 50	15 55	0 13	0 44	28 34	3 9	2 58
S 23	9 58	21 56	4 3	18 20	0 4	10 26	3 48	18 47	1 11	0 19	1 32	6 28	2 20	0 32	0 46	18 12	1 43	16 50	15 55	0 13	0 43	28 34	3 11	2 58
M24	9 36	25 21	4 39	18 15	0s 6	10 50	3 57	18 53	1 10	0 17	1 32	6 30	2 19	0 31	0 46	18 12	1 43	16 51	15 56	0 13	0 42	28 34	3 12	2 58
T 25	9 14	27 37	5 3	18 7	0 16	11 13	4 6	19 0	1 10	0 14	1 32	6 32	2 19	0 30	0 46	18 12	1 43	16 52	15 56	0 13	0 41	28 34	3 13	2 58
W26	8 52	28 38	5 13	17 59	0 25	11 36	4 14	19 6	1 9	0 12	1 32	6 35	2 19	0 29	0 46	18 12	1 43	16 53	15 56	0 13	0 39	28 34	3 14	2 57
T 27	8 29	28 19	5 11	17 49	0 34	11 59	4 23	19 12	1 8	0 9	1 32	6 37	2 19	0 28	0 46	18 12	1 43	16 54	15 56	0 12	0 38	28 34	3 15	2 57
F 28	8s 7	26n41	4n55	17s37	0s43	12n21	4n32	19s18	1n 8	0s 6	1n33	6n40	2s19	0s27	0n46	18s12	1n43	16n54	15n56	0n10	0n37	28n34	3n17	2n57

Julian Day Number = 2440253.5, Delta T = 39.28 sec

Ecliptic obliquity = 23°26'45, Nutation = 0°00'01, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°18'31, Lahiri = 23°25'31

ASTRODIENST EPHEMERIS for the year 1969  
geocentric

MARCH 1969

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	10 34 29	10 <sup>h</sup> 13'58	2 <sup>h</sup> 28'57	14 <sup>h</sup> 22' 7	21 <sup>h</sup> 21'26	1 <sup>h</sup> 27'40	3 <sup>h</sup> 04'43	22 <sup>h</sup> 27'44	2 <sup>h</sup> 05'53	28 <sup>h</sup> 04'43	24 <sup>h</sup> 09' 9	0 <sup>h</sup> 02'23	1 <sup>h</sup> 07'29	28 <sup>h</sup> 28'33	1 <sup>h</sup> 07'29	S 1
S 2	10 38 26	11 <sup>h</sup> 14'09	15 <sup>h</sup> 17	15 <sup>h</sup> 21	22 <sup>h</sup> 0	2 <sup>h</sup> 6	3 <sup>h</sup> 23'37	22 <sup>h</sup> 50	2 <sup>h</sup> 25'51	28 <sup>h</sup> 04'43	24 <sup>h</sup> 09' 7	0 <sup>h</sup> 07'20	1 <sup>h</sup> 26	28 <sup>h</sup> 40	1 <sup>h</sup> 32	S 2
M 3	10 42 22	12 <sup>h</sup> 14'18	27 <sup>h</sup> 50	16 <sup>h</sup> 36	22 <sup>h</sup> 31	2 <sup>h</sup> 32	3 <sup>h</sup> 30	22 <sup>h</sup> 57	2 <sup>h</sup> 48	28 <sup>h</sup> 43	24 <sup>h</sup> 6	0 <sup>h</sup> 17	1 <sup>h</sup> 23	28 <sup>h</sup> 46	1 <sup>h</sup> 36	M 3
T 4	10 46 19	13 <sup>h</sup> 14'25	10 <sup>h</sup> 37	17 <sup>h</sup> 53	23 <sup>h</sup> 2	2 <sup>h</sup> 58	3 <sup>h</sup> 23	23 <sup>h</sup> 3	2 <sup>h</sup> 46	28 <sup>h</sup> 42	24 <sup>h</sup> 4	0 <sup>h</sup> 15	1 <sup>h</sup> 20	28 <sup>h</sup> 53	1 <sup>h</sup> 39	T 4
W 5	10 50 15	14 <sup>h</sup> 14'31	23 <sup>h</sup> 38	19 <sup>h</sup> 12	23 <sup>h</sup> 30	3 <sup>h</sup> 24	3 <sup>h</sup> 16	23 <sup>h</sup> 10	2 <sup>h</sup> 44	28 <sup>h</sup> 42	24 <sup>h</sup> 3	0 <sup>h</sup> 14	1 <sup>h</sup> 17	29 <sup>h</sup> 0	1 <sup>h</sup> 42	W 5
T 6	10 54 12	15 <sup>h</sup> 14'34	6 <sup>h</sup> 25'4	20 <sup>h</sup> 32	23 <sup>h</sup> 57	3 <sup>h</sup> 49	3 <sup>h</sup> 9	23 <sup>h</sup> 16	2 <sup>h</sup> 41	28 <sup>h</sup> 42	24 <sup>h</sup> 1	0 <sup>h</sup> 01'4	1 <sup>h</sup> 13	29 <sup>h</sup> 6	1 <sup>h</sup> 46	T 6
F 7	10 58 9	16 <sup>h</sup> 14'36	20 <sup>h</sup> 22	21 <sup>h</sup> 54	24 <sup>h</sup> 23	4 <sup>h</sup> 14	3 <sup>h</sup> 2	23 <sup>h</sup> 23	2 <sup>h</sup> 39	28 <sup>h</sup> 42	23 <sup>h</sup> 59	0 <sup>h</sup> 15	1 <sup>h</sup> 10	29 <sup>h</sup> 13	1 <sup>h</sup> 49	F 7
S 8	11 2 5	17 <sup>h</sup> 14'36	4 <sup>h</sup> 22	23 <sup>h</sup> 17	24 <sup>h</sup> 46	4 <sup>h</sup> 39	2 <sup>h</sup> 55	23 <sup>h</sup> 29	2 <sup>h</sup> 36	28 <sup>h</sup> 42	23 <sup>h</sup> 58	0 <sup>h</sup> 16	1 <sup>h</sup> 7	29 <sup>h</sup> 20	1 <sup>h</sup> 53	S 8
S 9	11 6 2	18 <sup>h</sup> 14'35	17 <sup>h</sup> 53	24 <sup>h</sup> 41	25 <sup>h</sup> 8	5 <sup>h</sup> 3	2 <sup>h</sup> 48	23 <sup>h</sup> 36	2 <sup>h</sup> 34	28 <sup>h</sup> 41	23 <sup>h</sup> 56	0 <sup>h</sup> 17	1 <sup>h</sup> 4	29 <sup>h</sup> 27	1 <sup>h</sup> 56	S 9
M10	11 9 58	19 <sup>h</sup> 14'32	1 <sup>h</sup> 27'53	26 <sup>h</sup> 7	25 <sup>h</sup> 27	5 <sup>h</sup> 28	2 <sup>h</sup> 40	23 <sup>h</sup> 43	2 <sup>h</sup> 31	28 <sup>h</sup> 41	23 <sup>h</sup> 55	0 <sup>h</sup> 18	1 <sup>h</sup> 1	29 <sup>h</sup> 33	2 <sup>h</sup> 0	M10
T 11	11 13 55	20 <sup>h</sup> 14'27	15 <sup>h</sup> 59	27 <sup>h</sup> 34	25 <sup>h</sup> 45	5 <sup>h</sup> 52	2 <sup>h</sup> 33	23 <sup>h</sup> 50	2 <sup>h</sup> 29	28 <sup>h</sup> 41	23 <sup>h</sup> 53	0 <sup>h</sup> 01'8	0 <sup>h</sup> 58	29 <sup>h</sup> 40	2 <sup>h</sup> 3	T 11
W12	11 17 51	21 <sup>h</sup> 14'21	0 <sup>h</sup> 31'2	29 <sup>h</sup> 3	26 <sup>h</sup> 1	6 <sup>h</sup> 15	2 <sup>h</sup> 25	23 <sup>h</sup> 56	2 <sup>h</sup> 26	28 <sup>h</sup> 41	23 <sup>h</sup> 51	0 <sup>h</sup> 18	0 <sup>h</sup> 54	29 <sup>h</sup> 47	2 <sup>h</sup> 7	W12
T 13	11 21 48	22 <sup>h</sup> 14'13	14 <sup>h</sup> 27	0 <sup>h</sup> 33'3	26 <sup>h</sup> 14	6 <sup>h</sup> 39	2 <sup>h</sup> 18	24 <sup>h</sup> 3	2 <sup>h</sup> 24	28 <sup>h</sup> 40	23 <sup>h</sup> 50	0 <sup>h</sup> 18	0 <sup>h</sup> 51	29 <sup>h</sup> 54	2 <sup>h</sup> 10	T 13
F 14	11 25 44	23 <sup>h</sup> 14'04	28 <sup>h</sup> 43	2 <sup>h</sup> 4	26 <sup>h</sup> 26	7 <sup>h</sup> 2	2 <sup>h</sup> 10	24 <sup>h</sup> 10	2 <sup>h</sup> 21	28 <sup>h</sup> 40	23 <sup>h</sup> 48	0 <sup>h</sup> 17	0 <sup>h</sup> 48	0 <sup>h</sup> 50	2 <sup>h</sup> 14	F 14
S 15	11 29 41	24 <sup>h</sup> 13'53	12 <sup>h</sup> 25'6	3 <sup>h</sup> 36	26 <sup>h</sup> 35	7 <sup>h</sup> 25	2 <sup>h</sup> 3	24 <sup>h</sup> 17	2 <sup>h</sup> 19	28 <sup>h</sup> 39	23 <sup>h</sup> 46	0 <sup>h</sup> 16	0 <sup>h</sup> 45	0 <sup>h</sup> 7	2 <sup>h</sup> 17	S 15
S 16	11 33 38	25 <sup>h</sup> 13'40	27 <sup>h</sup> 3	5 <sup>h</sup> 10	26 <sup>h</sup> 42	7 <sup>h</sup> 47	1 <sup>h</sup> 55	24 <sup>h</sup> 24	2 <sup>h</sup> 16	28 <sup>h</sup> 39	23 <sup>h</sup> 45	0 <sup>h</sup> 15	0 <sup>h</sup> 42	0 <sup>h</sup> 14	2 <sup>h</sup> 21	S 16
M17	11 37 34	26 <sup>h</sup> 13'25	10 <sup>h</sup> 35'9	6 <sup>h</sup> 45	26 <sup>h</sup> 47	8 <sup>h</sup> 9	1 <sup>h</sup> 47	24 <sup>h</sup> 31	2 <sup>h</sup> 13	28 <sup>h</sup> 38	23 <sup>h</sup> 43	0 <sup>h</sup> 15	0 <sup>h</sup> 39	0 <sup>h</sup> 20	2 <sup>h</sup> 24	M17
T 18	11 41 31	27 <sup>h</sup> 13'08	24 <sup>h</sup> 41	8 <sup>h</sup> 21	26 <sup>h</sup> 49	8 <sup>h</sup> 31	1 <sup>h</sup> 40	24 <sup>h</sup> 38	2 <sup>h</sup> 11	28 <sup>h</sup> 38	23 <sup>h</sup> 42	0 <sup>h</sup> 01'5	0 <sup>h</sup> 35	0 <sup>h</sup> 27	2 <sup>h</sup> 28	T 18
W19	11 45 27	28 <sup>h</sup> 12'49	8 <sup>h</sup> 07	9 <sup>h</sup> 58	26 <sup>h</sup> 49	8 <sup>h</sup> 52	1 <sup>h</sup> 32	24 <sup>h</sup> 45	2 <sup>h</sup> 8	28 <sup>h</sup> 37	23 <sup>h</sup> 40	0 <sup>h</sup> 15	0 <sup>h</sup> 32	0 <sup>h</sup> 34	2 <sup>h</sup> 31	W19
T 20	11 49 24	29 <sup>h</sup> 12'28	21 <sup>h</sup> 14	11 <sup>h</sup> 37	26 <sup>h</sup> 47	9 <sup>h</sup> 13	1 <sup>h</sup> 24	24 <sup>h</sup> 52	2 <sup>h</sup> 6	28 <sup>h</sup> 37	23 <sup>h</sup> 38	0 <sup>h</sup> 15	0 <sup>h</sup> 29	0 <sup>h</sup> 41	2 <sup>h</sup> 35	T 20
F 21	11 53 20	0 <sup>h</sup> 07'12	0 <sup>h</sup> 48	13 <sup>h</sup> 16	26 <sup>h</sup> 42	9 <sup>h</sup> 34	1 <sup>h</sup> 16	25 <sup>h</sup> 0	2 <sup>h</sup> 3	28 <sup>h</sup> 36	23 <sup>h</sup> 37	0 <sup>h</sup> 01'5	0 <sup>h</sup> 26	0 <sup>h</sup> 47	2 <sup>h</sup> 38	F 21
S 22	11 57 17	1 <sup>h</sup> 11'40	16 <sup>h</sup> 36	14 <sup>h</sup> 58	26 <sup>h</sup> 35	9 <sup>h</sup> 55	1 <sup>h</sup> 9	25 <sup>h</sup> 7	2 <sup>h</sup> 0	28 <sup>h</sup> 35	23 <sup>h</sup> 35	0 <sup>h</sup> 15	0 <sup>h</sup> 23	0 <sup>h</sup> 54	2 <sup>h</sup> 42	S 22
S 23	12 1 13	2 <sup>h</sup> 11'12	28 <sup>h</sup> 53	16 <sup>h</sup> 40	26 <sup>h</sup> 25	10 <sup>h</sup> 15	1 <sup>h</sup> 1	25 <sup>h</sup> 14	1 <sup>h</sup> 58	28 <sup>h</sup> 35	23 <sup>h</sup> 33	0 <sup>h</sup> 15	0 <sup>h</sup> 19	1 <sup>h</sup> 1	2 <sup>h</sup> 45	S 23
M24	12 5 10	3 <sup>h</sup> 10'43	10 <sup>h</sup> 25'8	18 <sup>h</sup> 24	26 <sup>h</sup> 12	10 <sup>h</sup> 34	0 <sup>h</sup> 53	25 <sup>h</sup> 21	1 <sup>h</sup> 55	28 <sup>h</sup> 34	23 <sup>h</sup> 32	0 <sup>h</sup> 15	0 <sup>h</sup> 16	1 <sup>h</sup> 7	2 <sup>h</sup> 49	M24
T 25	12 9 6	4 <sup>h</sup> 10'11	22 <sup>h</sup> 55	20 <sup>h</sup> 9	25 <sup>h</sup> 57	10 <sup>h</sup> 53	0 <sup>h</sup> 45	25 <sup>h</sup> 29	1 <sup>h</sup> 53	28 <sup>h</sup> 33	23 <sup>h</sup> 30	0 <sup>h</sup> 14	0 <sup>h</sup> 13	1 <sup>h</sup> 14	2 <sup>h</sup> 52	T 25
W26	12 13 3	5 <sup>h</sup> 9'37	4 <sup>h</sup> 25'48	21 <sup>h</sup> 55	25 <sup>h</sup> 40	11 <sup>h</sup> 12	0 <sup>h</sup> 37	25 <sup>h</sup> 36	1 <sup>h</sup> 50	28 <sup>h</sup> 32	23 <sup>h</sup> 29	0 <sup>h</sup> 01'4	0 <sup>h</sup> 10	1 <sup>h</sup> 21	2 <sup>h</sup> 56	W26
T 27	12 17 0	6 <sup>h</sup> 9'01	16 <sup>h</sup> 42	23 <sup>h</sup> 42	25 <sup>h</sup> 20	11 <sup>h</sup> 31	0 <sup>h</sup> 30	25 <sup>h</sup> 43	1 <sup>h</sup> 47	28 <sup>h</sup> 31	23 <sup>h</sup> 27	0 <sup>h</sup> 14	0 <sup>h</sup> 7	1 <sup>h</sup> 28	3 <sup>h</sup> 0	T 27
F 28	12 20 56	7 <sup>h</sup> 8'22	28 <sup>h</sup> 41	25 <sup>h</sup> 31	24 <sup>h</sup> 58	11 <sup>h</sup> 49	0 <sup>h</sup> 22	25 <sup>h</sup> 51	1 <sup>h</sup> 45	28 <sup>h</sup> 31	23 <sup>h</sup> 26	0 <sup>h</sup> 15	0 <sup>h</sup> 4	1 <sup>h</sup> 34	3 <sup>h</sup> 3	F 28
S 29	12 24 53	8 <sup>h</sup> 7'41	10 <sup>h</sup> 25'1	27 <sup>h</sup> 22	24 <sup>h</sup> 34	12 <sup>h</sup> 6	0 <sup>h</sup> 14	25 <sup>h</sup> 58	1 <sup>h</sup> 42	28 <sup>h</sup> 30	23 <sup>h</sup> 24	0 <sup>h</sup> 15	0 <sup>h</sup> 0	1 <sup>h</sup> 41	3 <sup>h</sup> 7	S 29
S 30	12 28 49	9 <sup>h</sup> 6'57	23 <sup>h</sup> 14	29 <sup>h</sup> 13	24 <sup>h</sup> 7	12 <sup>h</sup> 23	0 <sup>h</sup> 7	26 <sup>h</sup> 5	1 <sup>h</sup> 40	28 <sup>h</sup> 29	23 <sup>h</sup> 22	0 <sup>h</sup> 16	29 <sup>h</sup> 35'7	1 <sup>h</sup> 48	3 <sup>h</sup> 10	S 30
M31	12 32 46	10 <sup>h</sup> 07'12	5 <sup>h</sup> 25'4	1 <sup>h</sup> 07	23 <sup>h</sup> 07'39	12 <sup>h</sup> 27'40	29 <sup>h</sup> 25'59	26 <sup>h</sup> 07'13	1 <sup>h</sup> 23'37	28 <sup>h</sup> 28	23 <sup>h</sup> 21	0 <sup>h</sup> 07'17	29 <sup>h</sup> 35'4	1 <sup>h</sup> 55	3 <sup>h</sup> 07'14	M31

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
S 1	7s44	23n48	4n25	17s25	0s51	12n42	4n41	19s24	1n 7	0s 4	1n33	6n42	2s19	0s26	0n46	18s12	1n43	16n55	15n57	0n 9	0n36	28n35	3n18	2n57										
S 2	7 21	19 48	3 43	17 11	0 59	13 3	4 50	19 30	1 7	0 1	1 33	6 45	2 18	0 25	0 46	18 12	1 43	16 56	15 57	0 8	0 34	28 35	3 19	2 57										
M 3	6 58	14 53	2 49	16 56	1 7	13 23	4 59	19 36	1 6	0n 2	1 33	6 47	2 18	0 24	0 47	18 12	1 43	16 57	15 57	0 7	0 33	28 35	3 20	2 57										
T 4	6 35	9 14	1 46	16 39	1 14	13 43	5 8	19 41	1 5	0 5	1 33	6 50	2 18	0 23	0 47	18 12	1 43	16 58	15 57	0 6	0 32	28 35	3 22	2 57										
W 5	6 12	3 5	0 36	16 21	1 21	14 2	5 17	19 47	1 5	0 8	1 33	6 52	2 18	0 22	0 47	18 12	1 43	16 58	15 57	0 6	0 31	28 35	3 23	2 57										
T 6	5 49	3s18	0s37	16 2	1 27	14 20	5 26	19 52	1 4	0 11	1 33	6 55	2 18	0 21	0 47	18 12	1 44	16 59	15 57	0 6	0 29	28 35	3 24	2 57										
F 7	5 26	9 39	1 49	15 41	1 34	14 38	5 35	19 58	1 3	0 14	1 34	6 57	2 18	0 20	0 47	18 11	1 44	17 0	15 58	0 6	0 28	28 35	3 25	2 56										
S 8	5 2	15 38	2 56	15 20	1 39	14 55	5 44	20 3	1 2	0 16	1 34	7 0	2 17	0 19	0 47	18 11	1 44	17 1	15 58	0 6	0 27	28 35	3 27	2 56										
S 9	4 39	20 54	3 54	14 56	1 45	15 11	5 52	20 8	1 2	0 19	1 34	7 2	2 17	0 18	0 47	18 11	1 44	17 1	15 58	0 7	0 25	28 35	3 28	2 56										
M10	4 16	25 5	4 38	14 32	1 50	15 27	6 1	20 13	1 1	0 22	1 34	7 5	2 17	0 17	0 47	18 11	1 44	17 2	15 58	0 7	0 24	28 35	3 29	2 56										
T 11	3 52	27 47	5 7	14 6	1 54	15 41	6 10	20 18	1 0	0 25	1 34	7 8	2 17	0 16	0 47	18 11	1 44	17 3	15 58	0 7	0 23	28 35	3 30	2 56										
W12	3 28	28 43	5 16	13 39	1 58	15 55	6 18	20 23	0 59	0 29	1 34	7 10	2 17	0 15	0 47	18 11	1 44	17 3	15 58	0 7	0 22	28 35	3 32	2 56										
T 13	3 5	27 45	5 7	13 11	2 2	16 7	6 26	20 28	0 59	0 32	1 34	7 13	2 17	0 14	0 47	18 11	1 44	17 4	15 58	0 7	0 20	28 35	3 33	2 56										
F 14	2 41	24 58	4 38	12 42	2 5	16 19	6 35	20 33	0 58	0 35	1 34	7 15	2 17	0 13	0 47	18 11	1 44	17 5	15 58	0 7	0 19	28 35	3 34	2 56										
S 15	2 18	20 39	3 53	12 11	2 8	16 30	6 43	20 37	0 57	0 38	1 34	7 18	2 17	0 12	0 47	18 10	1 44	17 6	15 58	0 6	0 18	28 35	3 36	2 56										
S 16	1 54	15 13	2 54	11 39	2 11	16 40	6 50	20 42	0 56	0 41	1 34	7 21	2 16	0 11	0 47	18 10	1 44	17 6	15 58	0 6	0 17	28 35	3 37	2 56										
M17	1 30	9 4	1 45	11 6	2 13	16 48	6 58	20 46	0 55	0 44	1 35	7 23	2 16	0 10	0 47	18 10	1 44	17 7	15 58	0 6	0 15	28 35	3 38	2 56										
T 18	1 6	2 35	0 31	10 31	2 15	16 56	7 5	20 50	0 54	0 47	1 35	7 26	2 16	0 9	0 47	18 10	1 44	17 8	15 58	0 6	0 14	28 35	3 40	2 55										
W19	0 43	3n53	0n43	9 56	2 16	17 2	7 12	20 55	0 53	0 50	1 35	7 29	2 16	0 8	0 47	18 10	1 44	17 8	15 58	0 6	0 13	28 35	3 41	2 55										
T 20	0 19	10 3	1 54	9 19	2 16	17 8	7 18	20 59	0 52	0 53	1 35	7 31	2 16	0 7	0 47	18 10	1 44	17 9	15 58	0 6	0 12	28 35	3 42	2 55										
F 21	0n 5	15 39	2 57	8 41	2 17	17 11	7 24	21 3	0 51	0 57	1 35	7 34	2 16	0 6	0 47	18 9	1 44	17 10	15 58	0 6	0 10	28 35	3 44	2 55										
S 22	0 29	20 28	3 50	8 2	2 17	17 14	7 30	21 7	0 50	1 0	1 35	7 37	2 16	0 5	0 47	18 9	1 44	17 10	15 58	0 6	0 9	28 35	3 45	2 55										
S 23	0 52	24 19	4 31	7 21	2 16	17 15	7 35	21 11	0 49	1 3	1 35	7 40	2 16	0 4	0 47	18 9	1 44	17 11	15 58	0 6	0 8	28 35	3 46	2 55										
M24	1 16	27 2	4 59	6 40	2 15	17 15	7 40	21 15	0 48	1 6	1 35	7 42	2 16	0 3	0 47	18 9	1 44	17 11	15 58	0 6	0 6	28 35	3 48	2 55										
T 25	1 39	28 29	5 14	5 57	2 14	17 13	7 44	21 19	0 47	1 9	1 35	7 45	2 15	0 2	0 47	18 9	1 44	17 12	15 58	0 6	0 5	28 35	3 49	2 55										
W26	2 3	28 37	5 16	5 14	2 12	17 10	7 48	21 23	0 45	1 12	1 35	7 48	2 15	0 1	0 47	18 8	1 45	17 13	15 58	0 6	0 4	28 35	3 50	2 55										
T 27	2 27	27 26	5 4	4 29	2 9	17 5	7 51	21 26	0 44	1 15	1 35	7 51	2 15	0n 0	0 47	18 8	1 45	17 13	15 58	0 6	0 3	28 35	3 52	2 55										
F 28	2 50	24 58	4 39	3 43	2 6	16 59	7 53	21 30	0 43	1 18	1 35	7 53	2 15	0 1	0 47	18 8	1 45	17 14	15 58	0 6	0 1	28 35	3 53	2 55										
S 29	3 13	21 23	4 1	2 56	2 3	16 52	7 54	21 34	0 42	1 21	1 35	7 56	2 15	0 2	0 47	18 8	1 45	17 14	15 58	0 6	0 0	28 35	3 55	2 55										
S 30	3 37	16 47	3 11	2 8	1 59	16 43	7 55	21 37	0 40	1 24	1 35	7 59	2 15	0 3	0 47	18 7	1 45	17 15	15 58	0 6	0s 1	28 35	3 56	2 55										
M31	4n 0	11n23	2n11	1s18	1s54	16n32	7n55	21s41	0n39	1n27	1n35	8n 1	2s15	0n 4	0n47	18s 7	1n45	17n15	15n58	0n 7	0s 2	28n34	3n57	2n55										

ASTRODIENST EPHEMERIS for the year 1969  
geocentric

APRIL 1969

00:00 UT

Day	Sid.t	☉	☽	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	Day
T 1	12 36 42	11°5'24	18°54	3°0	23°R 9	12°56	29°R52	26°20	1°R34	28°R27	23°R19	0°Y18	29°X51	2°51	3°Y17	T 1
W 2	12 40 39	12° 4'34	2°13	4°56	22°Y37	13°12	29°M44	26°28	1°32	28°M26	23°M18	0°R18	29°48	2° 8	3°21	W 2
T 3	12 44 35	13° 3'41	15°51	6°53	22° 3	13°28	29°37	26°35	1°29	28°25	23°16	0°18	29°45	2°15	3°24	T 3
F 4	12 48 32	14° 2'47	29°47	8°51	21°28	13°43	29°29	26°43	1°27	28°24	23°15	0°17	29°41	2°21	3°28	F 4
S 5	12 52 29	15° 1'51	13°M56	10°51	20°52	13°57	29°22	26°50	1°24	28°23	23°13	0°15	29°38	2°28	3°31	S 5
S 6	12 56 25	16° 0'53	28°14	12°52	20°15	14°11	29°15	26°58	1°22	28°22	23°12	0°13	29°35	2°35	3°35	S 6
M 7	13 0 22	16°59'54	12°X36	14°54	19°38	14°24	29° 8	27° 5	1°19	28°21	23°10	0°11	29°32	2°42	3°38	M 7
T 8	13 4 18	17°58'52	26°58	16°57	19° 0	14°37	29° 1	27°13	1°17	28°20	23° 9	0° 9	29°29	2°48	3°42	T 8
W 9	13 8 15	18°57'49	11°Z16	19° 1	18°22	14°49	28°54	27°20	1°14	28°19	23° 8	0° 8	29°25	2°55	3°45	W 9
T 10	13 12 11	19°56'44	25°27	21° 5	17°44	15° 1	28°47	27°28	1°12	28°17	23° 6	0°D 8	29°22	3° 2	3°49	T 10
F 11	13 16 8	20°55'38	9°28	23°11	17° 7	15°12	28°40	27°36	1°10	28°16	23° 5	0° 9	29°19	3° 8	3°52	F 11
S 12	13 20 4	21°54'29	23°19	25°17	16°30	15°23	28°34	27°43	1° 7	28°15	23° 3	0°10	29°16	3°15	3°55	S 12
S 13	13 24 1	22°53'19	6°X59	27°23	15°55	15°33	28°27	27°51	1° 5	28°14	23° 2	0°12	29°13	3°22	3°59	S 13
M14	13 27 58	23°52'07	20°28	29°29	15°20	15°42	28°21	27°59	1° 2	28°12	23° 1	0°13	29°10	3°29	4° 2	M14
T 15	13 31 54	24°50'53	3°Y44	1°35	14°47	15°51	28°14	28° 6	1° 0	28°11	22°59	0°R13	29° 6	3°35	4° 5	T 15
W16	13 35 51	25°49'38	16°47	3°40	14°15	15°59	28° 8	28°14	0°58	28°10	22°58	0°12	29° 3	3°42	4° 9	W16
T 17	13 39 47	26°48'20	29°37	5°45	13°44	16° 7	28° 2	28°21	0°56	28° 9	22°57	0°10	29° 0	3°49	4°12	T 17
F 18	13 43 44	27°47'01	12°X14	7°48	13°16	16°14	27°56	28°29	0°53	28° 7	22°55	0° 6	28°57	3°56	4°15	F 18
S 19	13 47 40	28°45'39	24°39	9°50	12°49	16°20	27°50	28°37	0°51	28° 6	22°54	0° 1	28°54	4° 2	4°19	S 19
S 20	13 51 37	29°44'16	6°II52	11°50	12°25	16°26	27°44	28°44	0°49	28° 5	22°53	29°X56	28°50	4° 9	4°22	S 20
M21	13 55 33	0°44'50	18°55	13°48	12° 3	16°31	27°39	28°52	0°47	28° 3	22°52	29°51	28°47	4°16	4°25	M21
T 22	13 59 30	1°41'22	0°51	15°43	11°43	16°35	27°33	29° 0	0°45	28° 2	22°51	29°47	28°44	4°22	4°29	T 22
W23	14 3 27	2°39'53	12°44	17°36	11°25	16°38	27°28	29° 7	0°43	28° 0	22°49	29°44	28°41	4°29	4°32	W23
T 24	14 7 23	3°38'21	24°37	19°25	11°10	16°41	27°23	29°15	0°41	27°59	22°48	29°42	28°38	4°36	4°35	T 24
F 25	14 11 20	4°36'47	6°L34	21°12	10°57	16°43	27°18	29°23	0°38	27°57	22°47	29°D41	28°35	4°43	4°38	F 25
S 26	14 15 16	5°35'11	18°42	22°54	10°47	16°45	27°13	29°30	0°37	27°56	22°46	29°42	28°31	4°49	4°41	S 26
S 27	14 19 13	6°33'32	1°M 4	24°33	10°39	16°R46	27° 8	29°38	0°35	27°55	22°45	29°44	28°28	4°56	4°44	S 27
M28	14 23 9	7°31'52	13°45	26° 9	10°34	16°45	27° 4	29°45	0°33	27°53	22°44	29°45	28°25	5° 3	4°48	M28
T 29	14 27 6	8°30'09	26°49	27°40	10°30	16°45	27° 0	29°53	0°31	27°52	22°43	29°R46	28°22	5°10	4°51	T 29
W30	14 31 2	9°28'25	10°L18	29°X 7	10°D30	16°X43	26°M55	0°X 1	0°29	27°M50	22°M42	29°X45	28°X19	5°216	4°Y54	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	decl	lat
T 1	4n23	5n21	1n 3	0s28	1s49	16n20	7n54	21s44	0n38	1n30	1n35	8n 4	2s15	0n 5	0n47	18s 7	1n45	17n16	15n58	0n 7	0s 4	28n34	3n59	2n55					
W 2	4 46	1s 3	0s11	0n23	1 44	16 6	7 53	21 47	0 36	1 33	1 35	8 7	2 15	0 6	0 47	18 7	1 45	17 16	15 58	0 7	0 5	28 34	4 0	2 55					
T 3	5 10	7 33	1 25	1 14	1 38	15 51	7 50	21 51	0 35	1 36	1 35	8 10	2 15	0 7	0 47	18 6	1 45	17 17	15 58	0 7	0 6	28 34	4 1	2 55					
F 4	5 32	13 50	2 36	2 7	1 31	15 35	7 47	21 54	0 33	1 39	1 34	8 12	2 15	0 8	0 47	18 6	1 45	17 17	15 58	0 7	0 7	28 34	4 3	2 55					
S 5	5 55	19 30	3 38	3 0	1 24	15 17	7 43	21 57	0 32	1 42	1 34	8 15	2 15	0 9	0 47	18 6	1 45	17 18	15 57	0 6	0 9	28 34	4 4	2 54					
S 6	6 18	24 7	4 28	3 54	1 16	14 58	7 38	22 0	0 30	1 44	1 34	8 18	2 15	0 10	0 46	18 6	1 45	17 18	15 57	0 5	0 10	28 33	4 5	2 54					
M 7	6 41	27 17	5 1	4 49	1 8	14 38	7 31	22 4	0 29	1 47	1 34	8 21	2 15	0 11	0 46	18 5	1 45	17 19	15 57	0 4	0 11	28 33	4 7	2 54					
T 8	7 3	28 39	5 15	5 44	1 0	14 17	7 25	22 7	0 27	1 50	1 34	8 23	2 15	0 12	0 46	18 5	1 45	17 19	15 57	0 4	0 12	28 33	4 8	2 54					
W 9	7 26	28 6	5 9	6 40	0 51	13 56	7 17	22 10	0 25	1 53	1 34	8 26	2 14	0 13	0 46	18 5	1 45	17 20	15 57	0 3	0 14	28 33	4 9	2 54					
T 10	7 48	25 43	4 45	7 35	0 42	13 33	7 8	22 13	0 24	1 55	1 34	8 29	2 14	0 14	0 46	18 5	1 45	17 20	15 57	0 3	0 15	28 33	4 11	2 54					
F 11	8 10	21 48	4 4	8 31	0 32	13 10	6 59	22 16	0 22	1 58	1 34	8 32	2 14	0 15	0 46	18 4	1 45	17 20	15 56	0 4	0 16	28 32	4 12	2 54					
S 12	8 32	16 43	3 9	9 27	0 22	12 47	6 49	22 19	0 20	2 0	1 34	8 34	2 14	0 16	0 46	18 4	1 45	17 21	15 56	0 4	0 18	28 32	4 14	2 54					
S 13	8 54	10 52	2 4	10 22	0 11	12 23	6 38	22 21	0 18	2 3	1 34	8 37	2 14	0 17	0 46	18 4	1 45	17 21	15 56	0 5	0 19	28 32	4 15	2 54					
M14	9 16	4 36	0 53	11 17	0 1	11 59	6 27	22 24	0 16	2 5	1 34	8 40	2 14	0 18	0 46	18 3	1 45	17 22	15 56	0 5	0 20	28 32	4 16	2 54					
T 15	9 37	1n47	0n19	12 11	0n10	11 35	6 15	22 27	0 15	2 8	1 33	8 43	2 14	0 19	0 46	18 3	1 45	17 22	15 56	0 5	0 21	28 31	4 18	2 54					
W16	9 59	7 59	1 30	13 5	0 21	11 11	6 3	22 30	0 13	2 10	1 33	8 45	2 14	0 19	0 46	18 3	1 45	17 22	15 55	0 5	0 23	28 31	4 19	2 54					
T 17	10 20	13 45	2 34	13 57	0 32	10 48	5 50	22 33	0 11	2 12	1 33	8 48	2 14	0 20	0 46	18 2	1 45	17 23	15 55	0 4	0 24	28 31	4 20	2 54					
F 18	10 41	18 51	3 30	14 48	0 43	10 25	5 37	22 36	0 9	2 15	1 33	8 51	2 14	0 21	0 46	18 2	1 45	17 23	15 55	0 2	0 25	28 31	4 21	2 54					
S 19	11 2	23 3	4 15	15 37	0 54	10 2	5 24	22 38	0 6	2 17	1 33	8 54	2 14	0 22	0 46	18 2	1 45	17 23	15 55	0 1	0 26	28 30	4 23	2 54					
S 20	11 23	26 11	4 47	16 25	1 5	9 40	5 10	22 41	0 4	2 19	1 33	8 56	2 14	0 23	0 46	18 1	1 45	17 23	15 54	0s 1	0 28	28 30	4 24	2 54					
M21	11 44	28 4	5 6	17 11	1 15	9 18	4 56	22 44	0 2	2 21	1 33	8 59	2 14	0 24	0 46	18 1	1 45	17 24	15 54	0 3	0 29	28 30	4 25	2 54					
T 22	12 4	28 38	5 12	17 55	1 25	8 57	4 42	22 46	0s 0	2 23	1 32	9 2	2 14	0 25	0 46	18 1	1 46	17 24	15 54	0 5	0 30	28 29	4 27	2 54					
W23	12 24	27 53	5 4	18 36	1 35	8 37	4 28	22 49	0 2	2 25	1 32	9 4	2 14	0 25	0 46	18 0	1 46	17 24	15 54	0 7	0 31	28 29	4 28	2 54					
T 24	12 44	25 51	4 43	19 16	1 44	8 18	4 14	22 52	0 5	2 27	1 32	9 7	2 14	0 26	0 46	18 0	1 46	17 24	15 53	0 7	0 33	28 29	4 29	2 54					
F 25	13 4	22 40	4 10	19 53	1 53	8 0	3 59	22 54	0 7	2 29	1 32	9 10	2 14	0 27	0 46	18 0	1 46	17 24	15 53	0 7	0 34	28 28	4 31	2 54					
S 26	13 23	18 28	3 25	20 27	2 1	7 43	3 45	22 57	0 10	2 31	1 32	9 12	2 14	0 28	0 46	17 59	1 46	17 25	15 53	0 7	0 35	28 28	4 32	2 54					
S 27	13 43	13 26	2 30	20 59	2 8	7 27	3 31	22 59	0 12	2 32	1 32	9 15	2 14	0 28	0 46	17 59	1 46	17 25	15 52	0 7	0 36	28 28	4 33	2 54					
M28	14 2	7 43	1 26	21 29	2 15	7 12	3 17	23 2	0 15	2 34	1 31	9 18	2 14	0 29	0 46	17 59	1 46	17 25	15 52	0 6	0 38	28 27	4 34	2 54					
T 29	14 20	1 30	0 16	21 56	2 21	6 58	3 4	23 4	0 17	2 35	1 31	9 20	2 14	0 30	0 46	17 58	1 46	17 25	15 52	0 6	0 39	28 27	4 36	2 54					
W30	14n39	4s57	0s57	22n20	2n26	6n46	2n50	23s 7	0s20	2n37	1n31	9n23	2s14	0n31	0n46	17s58	1n46	17n25	15n52	0s 6	0s40	28n27	4n37	2n54					

# ASTRODIENST EPHEMERIS for the year 1969

## geocentric

MAY 1969

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 59	10♌26°38	24♊12	0♏30	10♍31	16°R41	26°R51	0♌8	0°R27	27°R48	22°R41	29°R43	28♋16	5♌23	4♍57	T 1	
F 2	14 38 56	11°24'50	8♏28	1°48	10°35	16♌38	26♏47	0°16	0♌25	27♏47	22♏40	29♋39	28°12	5°30	5°0	F 2	
S 3	14 42 52	12°23'00	23°3	3°2	10°42	16°34	26°44	0°23	0°24	27°45	22°39	29°34	28°9	5°36	5°3	S 3	
S 4	14 46 49	13°21'09	7♌49	4°12	10°50	16°30	26°40	0°31	0°22	27°44	22°38	29°27	28°6	5°43	5°6	S 4	
M 5	14 50 45	14°19'16	22°39	5°17	11°1	16°25	26°37	0°38	0°20	27°42	22°37	29°20	28°3	5°50	5°9	M 5	
T 6	14 54 42	15°17'21	7♌23	6°17	11°13	16°19	26°34	0°46	0°19	27°41	22°36	29°15	28°0	5°57	5°11	T 6	
W 7	14 58 38	16°15'25	21°57	7°13	11°28	16°12	26°31	0°53	0°17	27°39	22°36	29°11	27°56	6°3	5°14	W 7	
T 8	15 2 35	17°13'28	6♌15	8°3	11°45	16°4	26°28	1°1	0°16	27°38	22°35	29°8	27°53	6°10	5°17	T 8	
F 9	15 6 31	18°11'29	20°14	8°50	12°3	15°56	26°25	1°8	0°14	27°36	22°34	29°D 8	27°50	6°17	5°20	F 9	
S 10	15 10 28	19°9'29	3♌56	9°31	12°24	15°47	26°22	1°15	0°13	27°34	22°33	29°8	27°47	6°23	5°23	S 10	
S 11	15 14 25	20°7'28	17°19	10°7	12°46	15°37	26°20	1°23	0°11	27°33	22°33	29°9	27°44	6°30	5°25	S 11	
M 12	15 18 21	21°5'25	0♍28	10°38	13°10	15°27	26°18	1°30	0°10	27°31	22°32	29°R 10	27°41	6°37	5°28	M 12	
T 13	15 22 18	22°3'21	13°22	11°4	13°36	15°15	26°16	1°38	0°9	27°30	22°31	29°9	27°37	6°44	5°31	T 13	
W 14	15 26 14	23°1'16	26°5	11°26	14°3	15°3	26°14	1°45	0°7	27°28	22°31	29°6	27°34	6°50	5°33	W 14	
T 15	15 30 11	23°59'09	8♌37	11°42	14°32	14°51	26°13	1°52	0°6	27°26	22°30	29°0	27°31	6°57	5°36	T 15	
F 16	15 34 7	24°57'01	20°59	11°53	15°3	14°37	26°11	1°59	0°5	27°25	22°29	28°52	27°28	7°4	5°39	F 16	
S 17	15 38 4	25°54'51	3♏12	11°59	15°34	14°23	26°10	2°7	0°4	27°23	22°29	28°42	27°25	7°11	5°41	S 17	
S 18	15 42 0	26°52'40	15°17	12°R 1	16°7	14°9	26°9	2°14	0°3	27°21	22°28	28°31	27°22	7°17	5°44	S 18	
M 19	15 45 57	27°50'28	27°16	11°57	16°42	13°53	26°8	2°21	0°2	27°20	22°28	28°20	27°18	7°24	5°46	M 19	
T 20	15 49 54	28°48'14	9♏10	11°50	17°17	13°37	26°7	2°28	0°1	27°18	22°27	28°10	27°15	7°31	5°48	T 20	
W 21	15 53 50	29°45'59	21°1	11°37	17°54	13°21	26°7	2°35	29♏59	27°17	22°27	28°2	27°12	7°37	5°51	W 21	
T 22	15 57 47	0♏43'42	2♏52	11°21	18°32	13°4	26°6	2°42	29°59	27°15	22°27	27°56	27°9	7°44	5°53	T 22	
F 23	16 1 43	1°41'23	14°48	11°1	19°12	12°46	26°D 6	2°49	29°58	27°13	22°26	27°52	27°6	7°51	5°56	F 23	
S 24	16 5 40	2°39'03	26°53	10°37	19°52	12°29	26°6	2°56	29°57	27°12	22°26	27°51	27°2	7°58	5°58	S 24	
S 25	16 9 36	3°36'42	9♏12	10°11	20°33	12°10	26°6	3°3	29°57	27°10	22°26	27°D 51	26°59	8°4	6°0	S 25	
M 26	16 13 33	4°34'18	21°50	9°42	21°15	11°51	26°7	3°10	29°56	27°8	22°25	27°R 51	26°56	8°11	6°2	M 26	
T 27	16 17 29	5°31'54	4♏52	9°11	21°58	11°32	26°7	3°17	29°55	27°7	22°25	27°51	26°53	8°18	6°4	T 27	
W 28	16 21 26	6°29'28	18°21	8°38	22°43	11°13	26°8	3°24	29°55	27°5	22°25	27°50	26°50	8°24	6°6	W 28	
T 29	16 25 23	7°27'00	2♏19	8°4	23°28	10°53	26°9	3°31	29°54	27°4	22°25	27°46	26°47	8°31	6°8	T 29	
F 30	16 29 19	8°24'31	16°44	7°31	24°13	10°33	26°10	3°38	29°54	27°2	22°25	27°39	26°43	8°38	6°10	F 30	
S 31	16 33 16	9♏22'02	1♌34	6♏57	25°Y 0	10♌13	26♏11	3♌44	29♏53	27♏0	22♏25	27♋31	26♋40	8♌45	6♍12	S 31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14n57	11s23	2s 9	22n42	2n30	6n34	2n37	23s 9	0s23	2n38	1n31	9n26	2s14	0n31	0n46	17s58	1n46
F 2	15 16	17 23	3 14	23 1	2 33	6 23	2 23	23 12	0 25	2 40	1 31	9 28	2 14	0 32	0 46	17 57	1 46
S 3	15 33	22 32	4 8	23 18	2 35	6 14	2 11	23 14	0 28	2 41	1 30	9 31	2 14	0 33	0 46	17 57	1 46
S 4	15 51	26 20	4 47	23 33	2 37	6 6	1 58	23 16	0 31	2 42	1 30	9 33	2 14	0 33	0 46	17 57	1 46
M 5	16 8	28 20	5 6	23 46	2 37	5 58	1 45	23 19	0 34	2 43	1 30	9 36	2 14	0 34	0 46	17 56	1 46
T 6	16 25	28 19	5 5	23 56	2 36	5 52	1 33	23 21	0 37	2 45	1 30	9 38	2 14	0 35	0 46	17 56	1 46
W 7	16 42	26 20	4 44	24 4	2 35	5 47	1 22	23 23	0 40	2 46	1 30	9 41	2 14	0 35	0 46	17 55	1 46
T 8	16 59	22 41	4 6	24 9	2 32	5 43	1 10	23 26	0 43	2 46	1 29	9 44	2 15	0 36	0 46	17 55	1 46
F 9	17 15	17 48	3 14	24 13	2 28	5 40	0 59	23 28	0 46	2 47	1 29	9 46	2 15	0 36	0 46	17 55	1 46
S 10	17 31	12 7	2 12	24 15	2 23	5 38	0 48	23 30	0 49	2 48	1 29	9 49	2 15	0 37	0 46	17 54	1 46
S 11	17 47	5 59	1 3	24 14	2 17	5 37	0 37	23 32	0 52	2 49	1 29	9 51	2 15	0 37	0 46	17 54	1 46
M 12	18 2	0n17	0n 7	24 12	2 10	5 37	0 27	23 34	0 55	2 50	1 29	9 54	2 15	0 38	0 46	17 54	1 46
T 13	18 17	6 26	1 16	24 8	2 2	5 38	0 17	23 36	0 58	2 50	1 28	9 56	2 15	0 38	0 46	17 53	1 46
W 14	18 32	12 14	2 19	24 2	1 53	5 40	0 7	23 38	1 2	2 51	1 28	9 58	2 15	0 39	0 45	17 53	1 46
T 15	18 46	17 27	3 15	23 54	1 43	5 42	0s 2	23 40	1 5	2 51	1 28	10 1	2 15	0 39	0 45	17 52	1 46
F 16	19 1	21 52	4 1	23 44	1 32	5 45	0 11	23 41	1 8	2 51	1 28	10 3	2 15	0 40	0 45	17 52	1 46
S 17	19 14	25 17	4 35	23 33	1 20	5 50	0 20	23 43	1 12	2 52	1 27	10 6	2 15	0 40	0 45	17 52	1 46
S 18	19 28	27 32	4 56	23 20	1 7	5 54	0 28	23 45	1 15	2 52	1 27	10 8	2 15	0 40	0 45	17 51	1 46
M 19	19 41	28 28	5 3	23 6	0 53	6 0	0 37	23 46	1 18	2 52	1 27	10 10	2 15	0 41	0 45	17 51	1 46
T 20	19 54	28 5	4 58	22 50	0 38	6 6	0 45	23 48	1 22	2 52	1 27	10 13	2 15	0 41	0 45	17 51	1 46
W 21	20 6	26 25	4 40	22 33	0 22	6 13	0 52	23 49	1 25	2 52	1 26	10 15	2 15	0 42	0 45	17 50	1 46
T 22	20 19	23 34	4 10	22 15	0 6	6 21	1 0	23 50	1 29	2 52	1 26	10 18	2 16	0 42	0 45	17 50	1 46
F 23	20 30	19 43	3 28	21 55	0s11	6 29	1 7	23 51	1 32	2 52	1 26	10 20	2 16	0 42	0 45	17 50	1 46
S 24	20 42	15 1	2 37	21 35	0 28	6 38	1 14	23 52	1 35	2 52	1 26	10 22	2 16	0 42	0 45	17 49	1 46
S 25	20 53	9 38	1 38	21 14	0 45	6 47	1 20	23 53	1 39	2 51	1 26	10 24	2 16	0 43	0 45	17 49	1 46
M 26	21 4	3 44	0 32	20 52	1 3	6 57	1 26	23 54	1 42	2 51	1 25	10 27	2 16	0 43	0 45	17 49	1 46
T 27	21 14	2s30	0s37	20 30	1 20	7 8	1 33	23 55	1 46	2 51	1 25	10 29	2 16	0 43	0 45	17 48	1 46
W 28	21 24	8 50	1 47	20 8	1 38	7 19	1 38	23 56	1 49	2 50	1 25	10 31	2 16	0 43	0 45	17 48	1 46
T 29	21 34	14 58	2 52	19 46	1 55	7 30	1 44	23 56	1 52	2 49	1 25	10 33	2 16	0 43	0 45	17 47	1 46
F 30	21 43	20 29	3 49	19 25	2 11	7 42	1 49	23 57	1 56	2 49	1 24	10 35	2 16	0 44	0 45	17 47	1 46
S 31	21n52	24s54	4s31	19n 4	2s27	7n54	1s54	23s57	1s59	2n48	1n24	10n38	2s16	0n44	0n45	17s47	1n46

Julian Day Number = 2440342.5, Delta T = 39.52 sec  
 Ecliptic obliquity = 23°26'45", Nutation = - 0°00'01", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°18'43", Lahiri = 23°25'43"



# ASTRODIENST EPHEMERIS for the year 1969

## geocentric

JUNE 1969

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 12	10II19'31	16♂39	6°R24	25Y48	9°R53	26♂13	3♂51	29°R53	26°R59	22°R25	27°R21	26♂37	8♂51	6Y14	S 1
M 2	16 41 9	11°16'59	1♂50	5II53	26°36	9♂33	26°15	3°58	29♂53	26♂57	22♂24	27♂11	26°34	8°58	6°16	M 2
T 3	16 45 5	12°14'26	16°56	5°24	27°25	9°12	26°16	4° 4	29°53	26°56	22°D24	27° 1	26°31	9° 5	6°18	T 3
W 4	16 49 2	13°11'53	1♂48	4°57	28°15	8°52	26°18	4°11	29°52	26°54	22°25	26°54	26°28	9°12	6°20	W 4
T 5	16 52 59	14° 9'18	16°20	4°32	29° 5	8°31	26°21	4°17	29°52	26°53	22°25	26°49	26°24	9°18	6°22	T 5
F 6	16 56 55	15° 6'43	0♂27	4°12	29°56	8°11	26°23	4°24	29°52	26°51	22°25	26°47	26°21	9°25	6°23	F 6
S 7	17 0 52	16° 4'07	14°10	3°54	0♂48	7°51	26°25	4°30	29°D52	26°50	22°25	26°D47	26°18	9°32	6°25	S 7
S 8	17 4 48	17° 1'31	27°29	3°41	1°40	7°31	26°28	4°36	29°52	26°48	22°25	26°R47	26°15	9°38	6°27	S 8
M 9	17 8 45	17°58'54	10Y28	3°32	2°33	7°11	26°31	4°43	29°52	26°47	22°25	26°46	26°12	9°45	6°28	M 9
T 10	17 12 41	18°56'17	23°10	3°26	3°27	6°51	26°34	4°49	29°52	26°45	22°25	26°44	26° 8	9°52	6°30	T 10
W11	17 16 38	19°53'39	5♂39	3°D26	4°21	6°32	26°37	4°55	29°52	26°44	22°26	26°39	26° 5	9°59	6°31	W11
T 12	17 20 34	20°51'01	17°56	3°30	5°15	6°13	26°40	5° 1	29°53	26°42	22°26	26°32	26° 2	10° 5	6°33	T 12
F 13	17 24 31	21°48'22	0II 6	3°38	6°10	5°54	26°44	5° 7	29°53	26°41	22°26	26°21	25°59	10°12	6°34	F 13
S 14	17 28 28	22°45'42	12° 9	3°51	7° 6	5°36	26°48	5°13	29°53	26°39	22°27	26° 9	25°56	10°19	6°35	S 14
S 15	17 32 24	23°43'02	24° 7	4° 8	8° 2	5°18	26°51	5°19	29°54	26°38	22°27	25°55	25°53	10°25	6°37	S 15
M16	17 36 21	24°40'22	6♂ 0	4°30	8°58	5° 1	26°55	5°25	29°54	26°37	22°27	25°41	25°49	10°32	6°38	M16
T 17	17 40 17	25°37'40	17°52	4°57	9°55	4°45	27° 0	5°31	29°55	26°35	22°28	25°28	25°46	10°39	6°39	T 17
W18	17 44 14	26°34'58	29°43	5°27	10°52	4°28	27° 4	5°37	29°55	26°34	22°28	25°17	25°43	10°46	6°40	W18
T 19	17 48 10	27°32'15	11♂35	6° 3	11°50	4°13	27° 8	5°42	29°56	26°32	22°29	25° 9	25°40	10°52	6°41	T 19
F 20	17 52 7	28°29'32	23°32	6°42	12°48	3°58	27°13	5°48	29°56	26°31	22°29	25° 3	25°37	10°59	6°43	F 20
S 21	17 56 3	29°26'48	5♂37	7°26	13°46	3°44	27°18	5°54	29°57	26°30	22°30	25° 1	25°34	11° 6	6°44	S 21
S 22	18 0 0	0♂24'03	17°55	8°14	14°45	3°31	27°23	5°59	29°58	26°29	22°30	25° 0	25°30	11°12	6°44	S 22
M23	18 3 57	1°21'18	0♂30	9° 6	15°44	3°18	27°28	6° 5	29°59	26°27	22°31	24°59	25°27	11°19	6°45	M23
T 24	18 7 53	2°18'31	13°27	10° 2	16°44	3° 6	27°33	6°10	29°59	26°26	22°32	24°59	25°24	11°26	6°46	T 24
W25	18 11 50	3°15'45	26°51	11° 2	17°44	2°55	27°39	6°15	0♂ 1	26°25	22°32	24°58	25°21	11°33	6°47	W25
T 26	18 15 46	4°12'57	10♂44	12° 6	18°44	2°44	27°44	6°21	0° 1	26°24	22°33	24°54	25°18	11°39	6°48	T 26
F 27	18 19 43	5°10'09	25° 7	13°14	19°44	2°34	27°50	6°26	0° 3	26°22	22°34	24°48	25°14	11°46	6°48	F 27
S 28	18 23 39	6° 7'21	9♂55	14°26	20°45	2°26	27°56	6°31	0° 4	26°21	22°35	24°39	25°11	11°53	6°49	S 28
S 29	18 27 36	7° 4'33	25° 4	15°41	21°46	2°18	28° 2	6°36	0° 5	26°20	22°36	24°29	25° 8	12° 0	6°50	S 29
M30	18 31 32	8♂ 1'44	10♂23	17II 1	22♂48	2♂10	28♂ 8	6♂41	0♂ 6	26♂19	22♂36	24♂19	25♂ 5	12♂ 6	6Y50	M30

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	decl lat	
S 1	22n 0	27s41	4s56	18n43	2s42	8n 7	1s59	23s57	2s 2	2n47	1n24	10n40	2s17	0n44	0n45	17s46	S 1
M 2	22 8	28 26	5 0	18 24	2 56	8 20	2 4	23 57	2 5	2 46	1 24	10 42	2 17	0 44	0 45	17 46	M 2
T 3	22 16	27 4	4 44	18 6	3 9	8 34	2 8	23 57	2 9	2 45	1 23	10 44	2 17	0 44	0 45	17 46	T 3
W 4	22 23	23 47	4 8	17 50	3 21	8 47	2 12	23 57	2 12	2 44	1 23	10 46	2 17	0 44	0 45	17 45	W 4
T 5	22 30	19 4	3 16	17 35	3 32	9 2	2 16	23 57	2 15	2 43	1 23	10 48	2 17	0 44	0 45	17 45	T 5
F 6	22 37	13 25	2 14	17 22	3 41	9 16	2 20	23 57	2 18	2 42	1 23	10 50	2 17	0 44	0 45	17 45	F 6
S 7	22 43	7 15	1 6	17 10	3 50	9 31	2 24	23 57	2 21	2 41	1 22	10 52	2 17	0 44	0 44	17 44	S 7
S 8	22 49	0 57	0n 4	17 1	3 57	9 45	2 27	23 56	2 24	2 40	1 22	10 54	2 17	0 44	0 44	17 44	S 8
M 9	22 54	5n15	1 12	16 54	4 2	10 1	2 30	23 56	2 27	2 38	1 22	10 56	2 18	0 44	0 44	17 44	M 9
T 10	22 59	11 5	2 15	16 49	4 7	10 16	2 33	23 55	2 30	2 37	1 22	10 58	2 18	0 44	0 44	17 43	T 10
W11	23 4	16 23	3 10	16 45	4 10	10 31	2 36	23 54	2 32	2 35	1 21	11 0	2 18	0 44	0 44	17 43	W11
T 12	23 8	20 56	3 55	16 44	4 12	10 47	2 39	23 54	2 35	2 34	1 21	11 2	2 18	0 44	0 44	17 43	T 12
F 13	23 12	24 33	4 29	16 45	4 13	11 3	2 41	23 53	2 38	2 32	1 21	11 4	2 18	0 43	0 44	17 43	F 13
S 14	23 15	27 3	4 51	16 47	4 12	11 19	2 43	23 52	2 40	2 31	1 21	11 5	2 18	0 43	0 44	17 42	S 14
S 15	23 18	28 18	4 59	16 52	4 11	11 35	2 45	23 52	2 43	2 29	1 21	11 7	2 19	0 43	0 44	17 42	S 15
M16	23 20	28 13	4 55	16 58	4 9	11 51	2 47	23 51	2 45	2 27	1 20	11 9	2 19	0 43	0 44	17 42	M16
T 17	23 22	26 50	4 37	17 6	4 5	12 7	2 49	23 50	2 47	2 25	1 20	11 11	2 19	0 43	0 44	17 41	T 17
W18	23 24	24 15	4 8	17 16	4 1	12 24	2 50	23 49	2 50	2 23	1 20	11 13	2 19	0 42	0 44	17 41	W18
T 19	23 25	20 38	3 28	17 27	3 56	12 40	2 52	23 48	2 52	2 21	1 20	11 14	2 19	0 42	0 44	17 41	T 19
F 20	23 26	16 10	2 38	17 40	3 50	12 56	2 53	23 48	2 54	2 19	1 19	11 16	2 19	0 42	0 44	17 41	F 20
S 21	23 27	11 1	1 41	17 53	3 43	13 13	2 54	23 47	2 56	2 17	1 19	11 18	2 20	0 41	0 44	17 40	S 21
S 22	23 27	5 21	0 37	18 8	3 35	13 29	2 55	23 46	2 58	2 15	1 19	11 19	2 20	0 41	0 44	17 40	S 22
M23	23 26	0s39	0s29	18 24	3 27	13 45	2 56	23 46	3 0	2 13	1 19	11 21	2 20	0 41	0 44	17 40	M23
T 24	23 26	6 47	1 36	18 41	3 18	14 1	2 56	23 45	3 1	2 10	1 18	11 23	2 20	0 40	0 44	17 40	T 24
W25	23 24	12 50	2 40	18 59	3 9	14 18	2 57	23 44	3 3	2 8	1 18	11 24	2 20	0 40	0 44	17 39	W25
T 26	23 23	18 29	3 37	19 17	2 59	14 34	2 57	23 44	3 5	2 6	1 18	11 26	2 20	0 39	0 44	17 39	T 26
F 27	23 21	23 17	4 22	19 36	2 49	14 50	2 57	23 43	3 6	2 3	1 18	11 27	2 21	0 39	0 44	17 39	F 27
S 28	23 18	26 45	4 51	19 55	2 38	15 6	2 57	23 43	3 8	2 1	1 18	11 29	2 21	0 39	0 44	17 39	S 28
S 29	23 15	28 22	5 1	20 15	2 27	15 22	2 57	23 43	3 9	1 58	1 17	11 30	2 21	0 38	0 44	17 38	S 29
M30	23n12	27s51	4s49	20n34	2s15	15n37	2s57	23s43	3s10	1n55	1n17	11n32	2s21	0n38	0n43	17s38	M30

Julian Day Number = 2440373.5, Delta T = 39.60 sec  
 Ecliptic obliquity = 23°26'44, Nutation = 0°00'00, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 24°18'47, Lahiri = 23°25'48

## ASTRODIENST EPHEMERIS for the year 1969

geocentric

JULY 1969

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 35 29	8°58'55	25°34'1	18°12'3	23°49'4	2°R 4	28°14'1	6°34'6	0°11'7	26°R18	22°37'3	24°R 9	25°11'2	12°13'1	6°51'1	T 1
W 2	18 39 26	9°56'06	10°47'4	19°50'0	24°51'1	1°58'5	28°20'0	6°51'0	0°8'8	26°M17	22°38'0	24°11'2	24°59'0	12°20'0	6°51'0	W 2
T 3	18 43 22	10°53'17	25°31'1	21°20'0	25°54'1	1°53'3	28°27'0	6°55'0	0°10'0	26°16'0	22°39'0	23°57'0	24°55'0	12°26'0	6°52'0	T 3
F 4	18 47 19	11°50'29	9°49'4	22°54'0	26°56'1	1°49'1	28°34'0	7°0'0	0°11'0	26°15'0	22°40'0	23°54'0	24°52'0	12°33'0	6°52'0	F 4
S 5	18 51 15	12°47'40	23°40'0	24°31'0	27°59'0	1°46'0	28°40'0	7°4'0	0°12'0	26°14'0	22°41'0	23°D54	24°49'0	12°40'0	6°52'0	S 5
S 6	18 55 12	13°44'52	7°3'0	26°11'0	29°2'0	1°44'0	28°47'0	7°9'0	0°14'0	26°13'0	22°42'0	23°54'0	24°46'0	12°47'0	6°52'0	S 6
M 7	18 59 8	14°42'04	20°2'0	27°55'0	0°11'5	1°43'0	28°54'0	7°13'0	0°15'0	26°12'0	22°43'0	23°R54	24°43'0	12°53'0	6°53'0	M 7
T 8	19 3 5	15°39'16	2°40'0	29°42'0	1°9'0	1°D42	29°2'0	7°18'0	0°17'0	26°11'0	22°44'0	23°53'0	24°40'0	13°0'0	6°53'0	T 8
W 9	19 7 2	16°36'29	15°3'0	1°32'0	2°12'0	1°42'0	29°9'0	7°22'0	0°19'0	26°10'0	22°45'0	23°49'0	24°36'0	13°7'0	6°53'0	W 9
T 10	19 10 58	17°33'42	27°13'0	3°25'0	3°16'0	1°43'0	29°16'0	7°26'0	0°20'0	26°9'0	22°46'0	23°43'0	24°33'0	13°13'0	6°R53	T 10
F 11	19 14 55	18°30'56	9°11'5	5°21'0	4°20'0	1°45'0	29°24'0	7°30'0	0°22'0	26°8'0	22°48'0	23°35'0	24°30'0	13°20'0	6°53'0	F 11
S 12	19 18 51	19°28'10	21°12'0	7°19'0	5°25'0	1°48'0	29°32'0	7°34'0	0°24'0	26°7'0	22°49'0	23°25'0	24°27'0	13°27'0	6°53'0	S 12
S 13	19 22 48	20°25'25	3°4'0	9°19'0	6°29'0	1°51'0	29°39'0	7°38'0	0°26'0	26°7'0	22°50'0	23°13'0	24°24'0	13°34'0	6°53'0	S 13
M14	19 26 44	21°22'40	14°56'0	11°22'0	7°34'0	1°56'0	29°47'0	7°42'0	0°27'0	26°6'0	22°51'0	23°1'0	24°20'0	13°40'0	6°52'0	M14
T 15	19 30 41	22°19'55	26°48'0	13°26'0	8°39'0	2°0'0	29°55'0	7°46'0	0°29'0	26°5'0	22°52'0	22°51'0	24°17'0	13°47'0	6°52'0	T 15
W16	19 34 37	23°17'10	8°41'0	15°32'0	9°44'0	2°7'0	0°4'0	7°49'0	0°31'0	26°4'0	22°54'0	22°41'0	24°14'0	13°54'0	6°52'0	W16
T 17	19 38 34	24°14'26	20°38'0	17°38'0	10°49'0	2°13'0	0°12'0	7°53'0	0°33'0	26°4'0	22°55'0	22°35'0	24°11'0	14°0'0	6°51'0	T 17
F 18	19 42 31	25°11'42	2°14'0	19°46'0	11°55'0	2°21'0	0°20'0	7°56'0	0°35'0	26°3'0	22°56'0	22°30'0	24°8'0	14°7'0	6°51'0	F 18
S 19	19 46 27	26°8'58	14°51'0	21°54'0	13°1'0	2°29'0	0°29'0	8°0'0	0°37'0	26°2'0	22°58'0	22°28'0	24°5'0	14°14'0	6°51'0	S 19
S 20	19 50 24	27°6'14	2°13'0	24°2'0	14°6'0	2°38'0	0°37'0	8°3'0	0°40'0	26°2'0	22°59'0	22°D28	24°1'0	14°21'0	6°50'0	S 20
M21	19 54 20	28°3'31	9°45'1	26°10'0	15°12'0	2°48'0	0°46'0	8°6'0	0°42'0	26°1'0	23°1'0	22°29'0	23°58'0	14°27'0	6°50'0	M21
T 22	19 58 17	29°0'48	22°48'0	28°18'0	16°19'0	2°58'0	0°55'0	8°9'0	0°44'0	26°1'0	23°2'0	22°R30	23°55'0	14°34'0	6°49'0	T 22
W23	20 2 13	29°58'05	6°11'7	0°42'5	17°25'0	3°10'0	1°4'0	8°13'0	0°46'0	26°0'0	23°4'0	22°30'0	23°52'0	14°41'0	6°48'0	W23
T 24	20 6 10	0°55'23	19°53'0	2°32'0	18°31'0	3°22'0	1°13'0	8°15'0	0°49'0	26°0'0	23°5'0	22°28'0	23°49'0	14°47'0	6°48'0	T 24
F 25	20 10 6	1°52'41	4°4'5	4°37'0	19°38'0	3°34'0	1°22'0	8°18'0	0°51'0	25°59'0	23°7'0	22°24'0	23°46'0	14°54'0	6°47'0	F 25
S 26	20 14 3	2°49'59	18°42'0	6°42'0	20°45'0	3°48'0	1°31'0	8°21'0	0°53'0	25°59'0	23°8'0	22°19'0	23°42'0	15°1'0	6°46'0	S 26
S 27	20 18 0	3°47'18	3°34'0	8°45'0	21°52'0	4°2'0	1°41'0	8°24'0	0°56'0	25°59'0	23°10'0	22°12'0	23°39'0	15°8'0	6°45'0	S 27
M28	20 21 56	4°44'38	18°51'0	10°47'0	22°59'0	4°16'0	1°50'0	8°26'0	0°58'0	25°58'0	23°11'0	22°5'0	23°36'0	15°14'0	6°44'0	M28
T 29	20 25 53	5°41'58	4°4'4	12°47'0	24°6'0	4°32'0	2°0'0	8°29'0	1°1'0	25°58'0	23°13'0	21°59'0	23°33'0	15°21'0	6°43'0	T 29
W30	20 29 49	6°39'18	19°10'0	14°46'0	25°13'0	4°48'0	2°9'0	8°31'0	1°3'0	25°58'0	23°15'0	21°54'0	23°30'0	15°28'0	6°42'0	W30
T 31	20 33 46	7°36'40	3°45'8	16°44'0	26°11'2	5°4'4	2°19'0	8°33'0	1°4'6	25°57'0	23°16'0	21°45'1	23°26'0	15°34'0	6°41'0	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n 8	25s13	4s17	20n53	2s 3	15n53	2s57	23s43	3s12	1n53	1n17	11n33	2s21	0n37	0n43	17s38	1n45	17n 4	15n26	2s19	1s59	27n47	5n27	2n59
W 2	23 4	20 51	3 27	21 12	1 51	16 8	2 56	23 43	3 13	1 50	1 17	11 34	2 22	0 36	0 43	17 38	1 45	17 3	15 26	2 22	2 0	27 46	5 27	2 59
T 3	23 0	15 17	2 24	21 31	1 39	16 24	2 55	23 43	3 14	1 47	1 17	11 36	2 22	0 36	0 43	17 37	1 45	17 2	15 25	2 24	2 1	27 45	5 28	2 59
F 4	22 55	9 2	1 14	21 49	1 26	16 39	2 55	23 43	3 15	1 44	1 16	11 37	2 22	0 35	0 43	17 37	1 45	17 1	15 25	2 25	2 2	27 44	5 28	2 59
S 5	22 50	2 32	0 1	22 6	1 14	16 53	2 54	23 43	3 16	1 42	1 16	11 38	2 22	0 35	0 43	17 37	1 45	17 1	15 24	2 25	2 4	27 43	5 28	2 59
S 6	22 44	3n51	1n 9	22 22	1 1	17 8	2 53	23 44	3 17	1 39	1 16	11 40	2 22	0 34	0 43	17 37	1 45	17 0	15 24	2 25	2 5	27 42	5 28	2 59
M 7	22 38	9 54	2 14	22 37	0 49	17 22	2 52	23 44	3 18	1 36	1 16	11 41	2 23	0 33	0 43	17 37	1 45	16 59	15 24	2 25	2 6	27 41	5 28	2 59
T 8	22 32	15 23	3 10	22 50	0 36	17 36	2 51	23 45	3 18	1 33	1 16	11 42	2 23	0 33	0 43	17 37	1 44	16 58	15 23	2 26	2 7	27 40	5 29	2 59
W 9	22 25	20 7	3 57	23 2	0 24	17 50	2 49	23 45	3 19	1 29	1 15	11 43	2 23	0 32	0 43	17 36	1 44	16 58	15 23	2 27	2 9	27 39	5 29	3 0
T 10	22 18	23 56	4 31	23 12	0 12	18 4	2 48	23 46	3 20	1 26	1 15	11 44	2 23	0 31	0 43	17 36	1 44	16 57	15 22	2 30	2 10	27 38	5 29	3 0
F 11	22 10	26 40	4 53	23 20	0 0	18 17	2 47	23 47	3 20	1 23	1 15	11 45	2 23	0 31	0 43	17 36	1 44	16 56	15 22	2 33	2 11	27 37	5 29	3 0
S 12	22 2	28 11	5 2	23 26	0n11	18 30	2 45	23 48	3 21	1 20	1 15	11 46	2 24	0 30	0 43	17 36	1 44	16 55	15 22	2 37	2 12	27 36	5 29	3 0
S 13	21 54	28 23	4 58	23 29	0 22	18 43	2 43	23 50	3 21	1 17	1 15	11 48	2 24	0 29	0 43	17 36	1 44	16 54	15 21	2 42	2 14	27 35	5 29	3 0
M14	21 45	27 16	4 41	23 30	0 33	18 55	2 42	23 51	3 22	1 13	1 14	11 49	2 24	0 28	0 43	17 36	1 44	16 53	15 21	2 46	2 15	27 34	5 29	3 0
T 15	21 36	24 55	4 12	23 29	0 43	19 7	2 40	23 52	3 22	1 10	1 14	11 50	2 24	0 28	0 43	17 36	1 44	16 53	15 20	2 50	2 16	27 33	5 29	3 0
W16	21 26	21 30	3 32	23 24	0 52	19 19	2 38	23 54	3 23	1 6	1 14	11 50	2 25	0 27	0 43	17 35	1 44	16 52	15 20	2 54	2 17	27 32	5 29	3 0
T 17	21 16	17 10	2 42	23 17	1 1	19 30	2 36	23 55	3 23	1 3	1 14	11 51	2 25	0 26	0 43	17 35	1 44	16 51	15 20	2 57	2 19	27 31	5 29	3 0
F 18	21 6	12 8	1 44	23 7	1 9	19 41	2 34	23 57	3 23	1 0	1 14	11 52	2 25	0 25	0 43	17 35	1 44	16 50	15 19	2 59	2 20	27 30	5 29	3 0
S 19	20 56	6 36	0 41	22 55	1 16	19 52	2 31	23 59	3 23	0 56	1 13	11 53	2 25	0 24	0 43	17 35	1 44	16 49	15 19	2 59	2 21	27 29	5 29	3 0
S 20	20 45	0 43	0s26	22 40	1 23	20 2	2 29	24 1	3 23	0 52	1 13	11 54	2 26	0 23	0 43	17 35	1 44	16 48	15 19	2 59	2 22	27 28	5 29	3 1
M21	20 33	5s19	1 32	22 22	1 28	20 11	2 27	24 3	3 24	0 49	1 13	11 55	2 26	0 23	0 43	17 35	1 44	16 47	15 18	2 59	2 24	27 27	5 29	3 1
T 22	20 22	11 16	2 35	22 2	1 33	20 21	2 24	24 5	3 24	0 45	1 13	11 56	2 26	0 22	0 43	17 35	1 44	16 47	15 18	2 59	2 25	27 26	5 28	3 1
W23	20 10	16 54	3 32	21 39	1 38	20 30	2 22	24 8	3 24	0 41	1 13	11 56	2 26	0 21	0 43	17 35	1 44	16 46	15 18	2 59	2 26	27 25	5 28	3 1
T 24	19 57	21 52	4 19	21 14	1 41	20 38	2 19	24 10	3 24	0 38	1 13	11 57	2 26	0 20	0 43	17 35	1 44	16 45	15 17	2 59	2 27	27 24	5 28	3 1
F 25	19 45	25 45	4 52	20 47	1 44	20 46	2 17	24 12	3 24	0 34	1 12	11 58	2 27	0 19	0 42	17 35	1 44	16 44	15 17	3 1	2 29	27 23	5 28	3 1
S 26	19 32	28 3	5 7	20 18	1 45	20 54	2 14	24 15	3 24	0 30	1 12	11 58	2 27	0 18	0 42	17 35	1 44	16 43	15 17	3 3	2 30	27 22	5 28	3 1
S 27	19 19	28 25	5 1	19 48	1 47	21 1	2 11	24 17	3 24	0 26	1 12	11 59	2 27	0 17	0 42	17 35	1 43	16 42	15 16	3 6	2 31	27 21	5 27	3 1
M28	19 5	26 39	4 35	19 15	1 47	21 7	2 9	24 20	3 23	0 22	1 12	12 0	2 27	0 16	0 42	17 35	1 43	16 41	15 16	3 8	2 33	27 20	5 27	3 1
T 29	18 51	22 57	3 49	18 41	1 47	21 13	2 6	24 23	3 23	0 18	1 12	12 0	2 28	0 15	0 42	17 35	1 43	16 40	15 16	3 11	2 34	27 19	5 27	3 1
W30	18 37	17 43	2 47	18 6	1 46	21 19	2 3	24 26	3 23	0 14	1 12	12 1	2 28	0 14	0 42	17 35	1 43	16 39	15 15	3 13	2 35	27 17	5 26	3 1
T 31	18n22	11s32	1s35	17n29	1n45	21n24	2s 0	24s28	3s23	0n10	1n11	12n 1	2s28	0n13	0n42	17s35	1n43	16n38	15n15	3s14	2s36	27n16	5n26	3n



ASTRODIENST EPHEMERIS for the year 1969  
geocentric

AUGUST 1969

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	20 37 42	8♌34'02	18♋23	18♌39	27♊29	5♈21	2♈29	8♏35	1♎8	25°R57	23♑18	21°D49	23♋23	15♌41	6°R40	F 1
S 2	20 41 39	9°31'26	2♊21	20°34	28°36	5°39	2°39	8°37	1°11	25♌57	23°20	21♋50	23°20	15°48	6♊39	S 2
S 3	20 45 35	10°28'51	15°51	22°26	29°44	5°58	2°49	8°39	1°14	25°57	23°21	21°51	23°17	15°55	6°38	S 3
M 4	20 49 32	11°26'16	28°55	24°17	0♈52	6°17	2°59	8°41	1°16	25°57	23°23	21°52	23°14	16°1	6°37	M 4
T 5	20 53 29	12°23'44	11♏36	26°7	2°1	6°36	3°9	8°43	1°19	25°56	23°25	21°R53	23°11	16°8	6°35	T 5
W 6	20 57 25	13°21'12	23°59	27°55	3°9	6°56	3°19	8°45	1°22	25°56	23°27	21°52	23°7	16°15	6°34	W 6
T 7	21 1 22	14°18'42	6♊8	29°41	4°18	7°17	3°30	8°46	1°25	25°56	23°28	21°50	23°4	16°21	6°33	T 7
F 8	21 5 18	15°16'13	18°8	1♑26	5°26	7°38	3°40	8°48	1°28	25°D56	23°30	21°46	23°1	16°28	6°31	F 8
S 9	21 9 15	16°13'45	0♈1	3°9	6°35	8°0	3°51	8°49	1°31	25°56	23°32	21°41	22°58	16°35	6°30	S 9
S 10	21 13 11	17°11'19	11°53	4°50	7°44	8°22	4°1	8°50	1°34	25°56	23°34	21°35	22°55	16°42	6°28	S 10
M 11	21 17 8	18°8'54	23°44	6°30	8°53	8°45	4°12	8°51	1°37	25°57	23°36	21°29	22°52	16°48	6°27	M 11
T 12	21 21 4	19°6'30	5♌39	8°9	10°2	9°8	4°23	8°52	1°40	25°57	23°38	21°24	22°48	16°55	6°25	T 12
W 13	21 25 1	20°4'07	17°38	9°46	11°11	9°32	4°33	8°53	1°43	25°57	23°40	21°19	22°45	17°2	6°23	W 13
T 14	21 28 58	21°1'46	29°44	11°21	12°20	9°56	4°44	8°54	1°46	25°57	23°41	21°16	22°42	17°8	6°22	T 14
F 15	21 32 54	21°59'25	11♑57	12°55	13°30	10°20	4°55	8°55	1°49	25°57	23°43	21°14	22°39	17°15	6°20	F 15
S 16	21 36 51	22°57'06	24°20	14°28	14°39	10°46	5°6	8°55	1°52	25°58	23°45	21°D13	22°36	17°22	6°18	S 16
S 17	21 40 47	23°54'48	6♈55	15°58	15°49	11°11	5°18	8°56	1°55	25°58	23°47	21°14	22°32	17°29	6°17	S 17
M 18	21 44 44	24°52'31	19°44	17°28	16°58	11°37	5°29	8°56	1°58	25°58	23°49	21°16	22°29	17°35	6°15	M 18
T 19	21 48 40	25°50'15	2♌48	18°56	18°8	12°4	5°40	8°57	2°1	25°58	23°51	21°17	22°26	17°42	6°13	T 19
W 20	21 52 37	26°48'01	16°11	20°22	19°18	12°31	5°51	8°57	2°5	25°59	23°53	21°18	22°23	17°49	6°11	W 20
T 21	21 56 33	27°45'47	29°53	21°46	20°28	12°58	6°3	8°R57	2°8	25°59	23°55	21°R19	22°20	17°55	6°9	T 21
F 22	22 0 30	28°43'35	13♈56	23°9	21°38	13°26	6°14	8°57	2°11	26°0	23°57	21°18	22°17	18°2	6°7	F 22
S 23	22 4 27	29°41'24	28°18	24°31	22°48	13°54	6°26	8°57	2°15	26°0	23°59	21°16	22°13	18°9	6°5	S 23
S 24	22 8 23	0♑39'14	12♏56	25°51	23°59	14°22	6°37	8°56	2°18	26°1	24°2	21°14	22°10	18°15	6°3	S 24
M 25	22 12 20	1°37'05	27°9	27°9	25°9	14°51	6°49	8°56	2°21	26°1	24°4	21°11	22°7	18°22	6°1	M 25
T 26	22 16 16	2°34'57	12♈40	28°25	26°20	15°20	7°0	8°56	2°25	26°2	24°6	21°9	22°4	18°29	5°59	T 26
W 27	22 20 13	3°32'51	27°31	29°39	27°30	15°50	7°12	8°55	2°28	26°2	24°8	21°7	22°1	18°36	5°56	W 27
T 28	22 24 9	4°30'46	12♋9	0♈52	28°41	16°20	7°24	8°54	2°32	26°3	24°10	21°6	21°58	18°42	5°54	T 28
F 29	22 28 6	5°28'43	26°30	2°2	29°52	16°50	7°36	8°54	2°35	26°4	24°12	21°D6	21°54	18°49	5°52	F 29
S 30	22 32 2	6°26'41	10♊28	3°11	1♌3	17°21	7°48	8°53	2°38	26°4	24°14	21°7	21°51	18°56	5°50	S 30
S 31	22 35 59	7♑24'42	24♊1	4♈17	2♌14	17♈52	8♈0	8♏52	2♈42	26♌5	24♑16	21♋8	21♋48	19♌2	5♊47	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	18n 8	4s53	0s19	16n52	1n43	21n28	1s57	24s31	3s23	0n 6	1n11	12n 2	2s28	0n12
S 2	17 52	1n48	0n57	16 13	1 40	21 32	1 54	24 34	3 22	0 2	1 11	12 2	2 29	0 10
S 3	17 52	8 11	2 7	15 34	1 37	21 36	1 51	24 37	3 22	0s 2	1 11	12 2	2 29	0 9
M 4	17 21	14 1	3 7	14 54	1 33	21 39	1 48	24 40	3 22	0 6	1 11	12 3	2 29	0 8
T 5	17 5	19 5	3 57	14 13	1 29	21 41	1 44	24 43	3 21	0 10	1 11	12 3	2 29	0 7
W 6	16 49	23 12	4 35	13 31	1 24	21 43	1 41	24 46	3 21	0 14	1 11	12 3	2 30	0 6
T 7	16 32	26 15	4 59	12 50	1 19	21 45	1 38	24 50	3 21	0 19	1 10	12 4	2 30	0 5
F 8	16 16	28 4	5 10	12 7	1 14	21 45	1 35	24 53	3 20	0 23	1 10	12 4	2 30	0 4
S 9	15 59	28 34	5 7	11 25	1 8	21 46	1 31	24 56	3 20	0 27	1 10	12 4	2 30	0 2
S 10	15 41	27 45	4 51	10 42	1 2	21 45	1 28	24 59	3 19	0 32	1 10	12 4	2 31	0 1
M 11	15 24	25 41	4 23	9 59	0 56	21 44	1 25	25 2	3 19	0 36	1 10	12 4	2 31	0 0
T 12	15 6	22 28	3 43	9 16	0 49	21 43	1 21	25 5	3 18	0 40	1 10	12 4	2 31	0s 1
W 13	14 48	18 18	2 53	8 33	0 42	21 41	1 18	25 8	3 18	0 45	1 10	12 4	2 31	0 2
T 14	14 29	13 22	1 55	7 50	0 34	21 38	1 15	25 12	3 17	0 49	1 10	12 4	2 32	0 4
F 15	14 11	7 52	0 51	7 7	0 27	21 35	1 11	25 15	3 17	0 54	1 9	12 4	2 32	0 5
S 16	13 52	1 59	0s17	6 25	0 19	21 31	1 8	25 18	3 16	0 58	1 9	12 4	2 32	0 6
S 17	13 33	4s 3	1 25	5 42	0 11	21 27	1 4	25 21	3 15	1 3	1 9	12 4	2 32	0 7
M 18	13 14	10 2	2 30	5 0	0 3	21 22	1 1	25 24	3 15	1 7	1 9	12 4	2 33	0 9
T 19	12 55	15 43	3 29	4 18	0s 6	21 16	0 57	25 27	3 14	1 12	1 9	12 4	2 33	0 10
W 20	12 35	20 47	4 18	3 36	0 14	21 10	0 54	25 30	3 14	1 16	1 9	12 4	2 33	0 11
T 21	12 15	24 54	4 53	2 55	0 23	21 3	0 51	25 33	3 13	1 21	1 9	12 4	2 33	0 13
F 22	11 55	27 38	5 12	2 14	0 32	20 56	0 47	25 36	3 12	1 26	1 9	12 3	2 34	0 14
S 23	11 35	28 38	5 12	1 33	0 41	20 48	0 44	25 39	3 11	1 30	1 9	12 3	2 34	0 15
S 24	11 15	27 40	4 52	0 50	0 50	20 40	0 40	25 41	3 11	1 35	1 8	12 3	2 34	0 17
M 25	10 54	24 45	4 13	0 14	0 59	20 31	0 37	25 44	3 10	1 40	1 8	12 2	2 34	0 18
T 26	10 33	20 9	3 16	0s25	1 8	20 21	0 33	25 47	3 9	1 44	1 8	12 2	2 35	0 19
W 27	10 13	14 19	2 7	1 3	1 17	20 11	0 30	25 49	3 9	1 49	1 8	12 2	2 35	0 21
T 28	9 51	7 46	0 49	1 40	1 27	20 0	0 26	25 51	3 8	1 54	1 8	12 1	2 35	0 22
F 29	9 30	0 56	0n30	2 17	1 36	19 49	0 23	25 54	3 7	1 59	1 8	12 1	2 35	0 24
S 30	9 9	5n45	1 45	2 53	1 45	19 37	0 20	25 56	3 6	2 3	1 8	12 0	2 36	0 25
S 31	8n47	11n59	2n52	3s27	1s55	19n24	0s16	25s58	3s 5	2s 8	1n 8	12n 0	2s36	0s26

Julian Day Number = 2440434.5, Delta T = 39.77 sec  
Ecliptic obliquity = 23°26'45, Nutation = 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°18'55, Lahiri = 23°25'56

ASTRODIENST EPHEMERIS for the year 1969  
geocentric

SEPTEMBER 1969

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 39 56	8♐22'44	7♊10	5♊21	3♊25	18♊23	8♊12	8°R51	2♊45	26♐6	24♐18	21♐9	21♐45	19♐9	5°R45	M 1	
T 2	22 43 52	9°20'48	19°56	6°23	4°36	18°55	8°24	8♊50	2°49	26°7	24°21	21°10	21°42	19°16	5°Y43	T 2	
W 3	22 47 49	10°18'54	2♐22	7°22	5°47	19°27	8°36	8°48	2°53	26°8	24°23	21°11	21°38	19°23	5°40	W 3	
T 4	22 51 45	11°17'02	14°33	8°19	6°59	19°59	8°48	8°47	2°56	26°8	24°25	21°R11	21°35	19°29	5°38	T 4	
F 5	22 55 42	12°15'12	26°33	9°12	8°10	20°32	9°0	8°45	3°0	26°9	24°27	21°10	21°32	19°36	5°36	F 5	
S 6	22 59 38	13°13'24	8♐26	10°3	9°21	21°5	9°12	8°44	3°3	26°10	24°29	21°10	21°29	19°43	5°33	S 6	
S 7	23 3 35	14°11'38	20°18	10°50	10°33	21°38	9°25	8°42	3°7	26°11	24°31	21°9	21°26	19°49	5°31	S 7	
M 8	23 7 31	15°9'54	2♐11	11°35	11°45	22°11	9°37	8°40	3°11	26°12	24°34	21°8	21°23	19°56	5°28	M 8	
T 9	23 11 28	16°8'12	14°9	12°15	12°57	22°45	9°49	8°39	3°14	26°13	24°36	21°7	21°19	20°3	5°26	T 9	
W10	23 15 25	17°6'32	26°16	12°51	14°8	23°19	10°2	8°37	3°18	26°14	24°38	21°7	21°16	20°9	5°23	W10	
T 11	23 19 21	18°4'53	8♐33	13°24	15°20	23°53	10°14	8°34	3°22	26°15	24°40	21°6	21°13	20°16	5°21	T 11	
F 12	23 23 18	19°3'17	21°1	13°51	16°32	24°28	10°27	8°32	3°25	26°16	24°42	21°D 6	21°10	20°23	5°18	F 12	
S 13	23 27 14	20°1'42	3♊43	14°14	17°45	25°3	10°39	8°30	3°29	26°18	24°45	21°6	21°7	20°30	5°15	S 13	
S 14	23 31 11	21°0'09	16°38	14°32	18°57	25°38	10°52	8°28	3°33	26°19	24°47	21°R 6	21°3	20°36	5°13	S 14	
M15	23 35 7	21°58'38	29°46	14°44	20°9	26°13	11°4	8°25	3°36	26°20	24°49	21°6	21°0	20°43	5°10	M15	
T 16	23 39 4	22°57'08	13♐9	14°51	21°21	26°48	11°17	8°23	3°40	26°21	24°51	21°6	20°57	20°50	5°8	T 16	
W17	23 43 0	23°55'41	26°44	14°R51	22°34	27°24	11°30	8°20	3°44	26°22	24°54	21°6	20°54	20°56	5°5	W17	
T 18	23 46 57	24°54'15	10♊33	14°45	23°46	28°0	11°42	8°17	3°48	26°24	24°56	21°6	20°51	21°3	5°2	T 18	
F 19	23 50 54	25°52'50	24°34	14°31	24°59	28°37	11°55	8°14	3°51	26°25	24°58	21°D 6	20°48	21°10	5°0	F 19	
S 20	23 54 50	26°51'28	8♊45	14°11	26°11	29°13	12°8	8°11	3°55	26°26	25°0	21°6	20°44	21°17	4°57	S 20	
S 21	23 58 47	27°50'06	23°5	13°44	27°24	29°50	12°21	8°8	3°59	26°28	25°2	21°6	20°41	21°23	4°54	S 21	
M22	0 2 43	28°48'47	7♊31	13°10	28°37	0♊27	12°33	8°5	4°3	26°29	25°5	21°7	20°38	21°30	4°52	M22	
T 23	0 6 40	29°47'29	21°58	12°28	29°50	1°4	12°46	8°2	4°7	26°30	25°7	21°7	20°35	21°37	4°49	T 23	
W24	0 10 36	0♊46'13	6♊22	11°40	1♐2	1°41	12°59	7°59	4°10	26°32	25°9	21°8	20°32	21°43	4°46	W24	
T 25	0 14 33	1°44'59	20°38	10°47	2°15	2°19	13°12	7°55	4°14	26°33	25°11	21°R 8	20°29	21°50	4°43	T 25	
F 26	0 18 29	2°43'46	4♐42	9°47	3°28	2°57	13°25	7°52	4°18	26°35	25°14	21°8	20°25	21°57	4°41	F 26	
S 27	0 22 26	3°42'36	18°29	8°44	4°42	3°35	13°38	7°49	4°22	26°36	25°16	21°7	20°22	22°3	4°38	S 27	
S 28	0 26 22	4°41'28	1♊57	7°38	5°55	4°13	13°50	7°45	4°25	26°38	25°18	21°6	20°19	22°10	4°35	S 28	
M29	0 30 19	5°40'22	15°4	6°30	7°8	4°51	14°3	7°41	4°29	26°39	25°20	21°4	20°16	22°17	4°33	M29	
T 30	0 34 16	6♊39'18	27♊51	5♊23	8♐21	5♊29	14♊16	7♊38	4♊33	26♐41	25♐22	21♐1	20♐13	22♐24	4♐30	T 30	

Day	☉	☾	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n26	17n30	3n48	4s 1	2s 4	19n11	0s13	26s 0	3s 5	2s13	1n 8	11n59	2s36	0s28	0n41	17s39	1n41	16n 8	15n 9	3s31	3s16	26n36	5n 5	3n 3	
T 2	8 4	22 4	4 31	4 34	2 13	18 58	0 10	26 2	3 4	2 18	1 8	11 58	2 36	0 29	0 41	17 39	1 41	16 7	15 9	3 30	3 18	26 35	5 4	3 3	
W 3	7 42	25 32	5 0	5 6	2 22	18 44	0 6	26 4	3 3	2 23	1 7	11 58	2 37	0 31	0 41	17 39	1 41	16 6	15 9	3 30	3 19	26 33	5 3	3 3	
T 4	7 20	27 45	5 14	5 37	2 31	18 29	0 3	26 6	3 2	2 27	1 7	11 57	2 37	0 32	0 41	17 39	1 41	16 5	15 9	3 30	3 20	26 32	5 2	3 3	
F 5	6 58	28 39	5 15	6 6	2 40	18 14	0n 0	26 7	3 1	2 32	1 7	11 56	2 37	0 34	0 41	17 40	1 41	16 4	15 9	3 30	3 21	26 30	5 1	3 3	
S 6	6 36	28 12	5 2	6 34	2 49	17 58	0 3	26 9	3 0	2 37	1 7	11 56	2 37	0 35	0 41	17 40	1 41	16 3	15 9	3 30	3 23	26 29	5 0	3 3	
S 7	6 13	26 28	4 37	7 0	2 57	17 42	0 7	26 10	3 0	2 42	1 7	11 55	2 38	0 36	0 41	17 40	1 41	16 3	15 9	3 31	3 24	26 28	4 59	3 3	
M 8	5 51	23 33	3 59	7 25	3 5	17 26	0 10	26 11	2 59	2 47	1 7	11 54	2 38	0 38	0 41	17 40	1 41	16 2	15 9	3 31	3 25	26 26	4 58	3 3	
T 9	5 28	19 38	3 11	7 48	3 13	17 8	0 13	26 12	2 58	2 52	1 7	11 53	2 38	0 39	0 41	17 41	1 41	16 1	15 9	3 31	3 26	26 25	4 57	3 3	
W10	5 6	14 51	2 13	8 10	3 21	16 51	0 16	26 13	2 57	2 57	1 7	11 53	2 38	0 41	0 41	17 41	1 41	16 0	15 9	3 31	3 28	26 23	4 56	3 3	
T 11	4 43	9 26	1 9	8 29	3 28	16 33	0 19	26 14	2 56	3 2	1 7	11 52	2 38	0 42	0 41	17 41	1 41	15 59	15 9	3 32	3 29	26 22	4 55	3 3	
F 12	4 20	3 34	0 0	8 46	3 34	16 14	0 22	26 15	2 55	3 7	1 7	11 51	2 39	0 44	0 41	17 42	1 41	15 58	15 9	3 32	3 30	26 20	4 54	3 3	
S 13	3 57	2s32	1s 9	9 0	3 40	15 55	0 25	26 15	2 54	3 12	1 7	11 50	2 39	0 45	0 41	17 42	1 41	15 57	15 9	3 32	3 31	26 19	4 53	3 3	
S 14	3 34	8 39	2 17	9 12	3 46	15 35	0 28	26 16	2 53	3 17	1 7	11 49	2 39	0 47	0 41	17 42	1 41	15 56	15 9	3 32	3 33	26 18	4 52	3 3	
M15	3 11	14 29	3 18	9 21	3 51	15 15	0 31	26 16	2 52	3 22	1 7	11 48	2 39	0 48	0 41	17 43	1 41	15 55	15 9	3 32	3 34	26 16	4 51	3 3	
T 16	2 48	19 46	4 10	9 27	3 54	14 55	0 33	26 16	2 51	3 27	1 7	11 47	2 39	0 50	0 41	17 43	1 40	15 55	15 9	3 32	3 35	26 15	4 50	3 3	
W17	2 25	24 7	4 49	9 30	3 57	14 34	0 36	26 16	2 50	3 32	1 7	11 46	2 40	0 51	0 41	17 43	1 40	15 54	15 9	3 32	3 36	26 13	4 49	3 3	
T 18	2 2	27 10	5 12	9 29	3 59	14 13	0 39	26 15	2 49	3 37	1 6	11 45	2 40	0 53	0 41	17 44	1 40	15 53	15 9	3 32	3 38	26 12	4 48	3 3	
F 19	1 38	28 36	5 16	9 25	4 0	13 51	0 42	26 15	2 48	3 42	1 6	11 44	2 40	0 54	0 41	17 44	1 40	15 52	15 9	3 32	3 39	26 10	4 47	3 3	
S 20	1 15	28 11	5 2	9 16	3 59	13 29	0 44	26 14	2 47	3 47	1 6	11 43	2 40	0 56	0 41	17 44	1 40	15 51	15 9	3 32	3 40	26 9	4 46	3 3	
S 21	0 52	25 53	4 29	9 4	3 57	13 7	0 47	26 13	2 46	3 52	1 6	11 42	2 40	0 57	0 41	17 45	1 40	15 50	15 9	3 32	3 41	26 7	4 45	3 3	
M22	0 28	21 55	3 39	8 47	3 53	12 44	0 49	26 12	2 45	3 57	1 6	11 40	2 41	0 59	0 41	17 45	1 40	15 50	15 9	3 31	3 43	26 5	4 44	3 3	
T 23	0 5	16 38	2 35	8 25	3 48	12 21	0 52	26 11	2 44	4 2	1 6	11 39	2 41	1 0	0 41	17 45	1 40	15 49	15 9	3 31	3 44	26 4	4 42	3 3	
W24	0s18	10 26	1 21	8 0	3 41	11 57	0 54	26 10	2 43	4 7	1 6	11 38	2 41	1 2	0 41	17 46	1 40	15 48	15 9	3 31	3 45	26 2	4 41	3 3	
T 25	0 42	3 45	0 3	7 30	3 31	11 33	0 56	26 8	2 42	4 12	1 6	11 37	2 41	1 3	0 41	17 46	1 40	15 47	15 9	3 31	3 46	26 1	4 40	3 2	
F 26	1 5	3n 0	1n14	6 57	3 20	11 9	0 59	26 6	2 41	4 17	1 6	11 36	2 41	1 5	0 41	17 46	1 40	15 46	15 9	3 31	3 48	25 59	4 39	3 2	
S 27	1 29	9 30	2 26	6 20	3 7	10 44	1 1	26 4	2 40	4 22	1 6	11 34	2 41	1 6	0 41	17 47	1 40	15 46	15 10	3 31	3 49	25 58	4 38	3 2	
S 28	1 52	15 23	3 27	5 40	2 52	10 19	1 3	26 2	2 39	4 27	1 6	11 33	2 42	1 8	0 41	17 47	1 40	15 45	15 10	3 32	3 50	25 56	4 37	3 2	
M29	2 15	20 26	4 16	4 58	2 36	9 54	1 5	26 0	2 38	4 32	1 6	11 32	2 42	1 9	0 41	17 48	1 40	15 44	15 10	3 33	3 51	25 55	4 36	3 2	
T 30	2s39	24n24	4n50	4s15	2s18	9n29	1n 7	25s57	2s37	4s37	1n 6	11n30	2s42	1s11	0n41	17s48	1n40	15n43	15n10	3s34	3s53	25n53	4n34	3n 2	

Julian Day Number = 2440465.5, Delta T = 39.85 sec  
Ecliptic obliquity = 23°26'45, Nutation = 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°19'00, Lahiri = 23°26'00

ASTRODIENST EPHEMERIS for the year 1969  
geocentric

OCTOBER 1969

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 38 12	7♏38°16	10♏20	4♏R18	9♏35	6♏8	14♏29	7♏R34	4♏37	26♏43	25♏25	20♏R59	20♏9	22♏30	4♏R27	W 1
T 2	0 42 9	8♏37°17	22°32	3♏17	10°48	6°47	14°42	7♏30	4°41	26°44	25°27	20♏58	20°6	22°37	4♏Y25	T 2
F 3	0 46 5	9♏36°20	4♏33	2°21	12°1	7°26	14°55	7°26	4°44	26°46	25°29	20♏D57	20°3	22°44	4°22	F 3
S 4	0 50 2	10°35'25	16°27	1°33	13°15	8°5	15°8	7°22	4°48	26°47	25°31	20°57	20°0	22°50	4°19	S 4
S 5	0 53 58	11°34'33	28°19	0°53	14°29	8°44	15°21	7°18	4°52	26°49	25°33	20°58	19°57	22°57	4°16	S 5
M 6	0 57 55	12°33'43	10♏13	0°22	15°42	9°24	15°34	7°14	4°56	26°51	25°35	20°59	19°54	23°4	4°14	M 6
T 7	1 1 52	13°32'55	22°13	0°2	16°56	10°4	15°47	7°10	4°59	26°53	25°38	21°1	19°50	23°10	4°11	T 7
W 8	1 5 48	14°32'09	4♏25	29°D52	18°10	10°43	16°0	7°6	5°3	26°54	25°40	21°3	19°47	23°17	4°8	W 8
T 9	1 9 45	15°31'26	16°51	29♏53	19°23	11°23	16°13	7°1	5°7	26°56	25°42	21°R 3	19°44	23°24	4°6	T 9
F 10	1 13 41	16°30'44	29°34	0♏5	20°37	12°3	16°26	6°57	5°11	26°58	25°44	21°3	19°41	23°31	4°3	F 10
S 11	1 17 38	17°30'05	12♏35	0°26	21°51	12°44	16°39	6°53	5°14	27°0	25°46	21°2	19°38	23°37	4°0	S 11
S 12	1 21 34	18°29'28	25°53	0°58	23°5	13°24	16°52	6°48	5°18	27°2	25°48	20°59	19°35	23°44	3°58	S 12
M13	1 25 31	19°28'53	9♏28	1°39	24°19	14°5	17°5	6°44	5°22	27°4	25°50	20°55	19°31	23°51	3°55	M13
T 14	1 29 27	20°28'20	23°17	2°28	25°33	14°45	17°18	6°39	5°26	27°5	25°52	20°50	19°28	23°57	3°53	T 14
W15	1 33 24	21°27'49	7♏17	3°26	26°47	15°26	17°31	6°35	5°29	27°7	25°54	20°46	19°25	24°4	3°50	W15
T 16	1 37 20	22°27'19	21°23	4°30	28°2	16°7	17°44	6°30	5°33	27°9	25°56	20°42	19°22	24°11	3°48	T 16
F 17	1 41 17	23°26'52	5♏34	5°40	29°16	16°48	17°57	6°25	5°37	27°11	25°58	20°39	19°19	24°17	3°45	F 17
S 18	1 45 14	24°26'26	19°45	6°55	0♏30	17°29	18°10	6°21	5°40	27°13	26°0	20°D38	19°15	24°24	3°43	S 18
S 19	1 49 10	25°26'02	3♏55	8°15	1°44	18°11	18°23	6°16	5°44	27°15	26°2	20°38	19°12	24°31	3°40	S 19
M20	1 53 7	26°25'39	18°3	9°39	2°59	18°52	18°36	6°11	5°48	27°17	26°4	20°39	19°9	24°38	3°38	M20
T 21	1 57 3	27°25'18	2♏5	11°6	4°13	19°34	18°49	6°7	5°51	27°19	26°6	20°41	19°6	24°44	3°35	T 21
W22	2 1 0	28°24'59	16°2	12°37	5°27	20°16	19°2	6°2	5°55	27°21	26°8	20°R42	19°3	24°51	3°33	W22
T 23	2 4 56	29°24'42	29°50	14°9	6°42	20°57	19°15	5°57	5°58	27°23	26°10	20°41	19°0	24°58	3°30	T 23
F 24	2 8 53	0♏24'26	13♏29	15°43	7°56	21°39	19°28	5°52	6°2	27°25	26°12	20°39	18°56	25°4	3°28	F 24
S 25	2 12 49	1°24'13	26°56	17°19	9°11	22°21	19°41	5°48	6°5	27°27	26°14	20°35	18°53	25°11	3°26	S 25
S 26	2 16 46	2°24'01	10♏8	18°56	10°25	23°3	19°54	5°43	6°9	27°29	26°16	20°29	18°50	25°18	3°23	S 26
M27	2 20 43	3°23'51	23°6	20°34	11°40	23°45	20°7	5°38	6°12	27°31	26°18	20°22	18°47	25°24	3°21	M27
T 28	2 24 39	4°23'44	5♏47	22°13	12°55	24°28	20°19	5°33	6°16	27°34	26°20	20°14	18°44	25°31	3°19	T 28
W29	2 28 36	5°23'38	18°12	23°52	14°9	25°10	20°32	5°28	6°19	27°36	26°22	20°6	18°41	25°38	3°17	W29
T 30	2 32 32	6°23'35	0♏24	25°31	15°24	25°53	20°45	5°23	6°23	27°38	26°23	19°59	18°37	25°44	3°15	T 30
F 31	2 36 29	7♏23'34	12♏24	27♏10	16♏39	26♏35	20♏58	5♏19	6♏26	27♏40	26♏25	19♏54	18♏34	25♏51	3♏Y12	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	3s 2	27n 7	5n10	3s32	1s59	9n 3	1n 9	25s54	2s36	4s42	1n 6	11n29	2s42	1s12	0n41	17s48
T 2	3 25	28 29	5 15	2 49	1 39	8 37	1 11	25 51	2 35	4 47	1 6	11 28	2 42	1 14	0 41	17 49
F 3	3 48	28 28	5 7	2 9	1 19	8 10	1 13	25 48	2 34	4 52	1 6	11 26	2 42	1 15	0 41	17 49
S 4	4 12	27 9	4 45	1 31	0 58	7 44	1 14	25 45	2 33	4 57	1 6	11 25	2 42	1 17	0 41	17 50
S 5	4 35	24 36	4 11	0 56	0 38	7 17	1 16	25 41	2 32	5 2	1 6	11 23	2 43	1 18	0 41	17 50
M 6	4 58	21 0	3 26	0 26	0 19	6 50	1 18	25 37	2 31	5 7	1 6	11 22	2 43	1 20	0 41	17 51
T 7	5 21	16 30	2 32	0 0	0n 0	6 23	1 19	25 33	2 30	5 12	1 6	11 21	2 43	1 21	0 41	17 51
W 8	5 44	11 18	1 30	0n20	0 18	5 55	1 21	25 29	2 29	5 17	1 6	11 19	2 43	1 23	0 41	17 51
T 9	6 7	5 33	0 23	0 35	0 35	5 28	1 22	25 24	2 27	5 22	1 6	11 18	2 43	1 24	0 41	17 52
F 10	6 30	0s32	0s47	0 44	0 50	5 0	1 23	25 20	2 26	5 27	1 6	11 16	2 43	1 26	0 41	17 52
S 11	6 52	6 45	1 55	0 48	1 3	4 32	1 25	25 15	2 25	5 32	1 6	11 15	2 43	1 27	0 41	17 53
S 12	7 15	12 47	2 59	0 46	1 16	4 3	1 26	25 10	2 24	5 37	1 6	11 13	2 43	1 29	0 41	17 53
M13	7 38	18 21	3 54	0 40	1 26	3 35	1 27	25 4	2 23	5 42	1 6	11 12	2 43	1 30	0 41	17 54
T 14	8 0	23 4	4 37	0 28	1 35	3 7	1 28	24 59	2 22	5 47	1 6	11 10	2 43	1 32	0 41	17 54
W15	8 22	26 31	5 3	0 13	1 43	2 38	1 29	24 53	2 21	5 52	1 6	11 9	2 43	1 33	0 41	17 55
T 16	8 44	28 21	5 12	0 30	1 49	2 9	1 30	24 47	2 20	5 57	1 6	11 7	2 43	1 34	0 41	17 55
F 17	9 7	28 21	5 2	0 30	1 54	1 41	1 31	24 41	2 18	6 2	1 6	11 5	2 44	1 36	0 41	17 56
S 18	9 29	26 29	4 33	0 56	1 58	1 12	1 31	24 34	2 17	6 7	1 6	11 4	2 44	1 37	0 41	17 56
S 19	9 50	22 58	3 47	1 25	2 1	0 43	1 32	24 27	2 16	6 12	1 6	11 2	2 44	1 39	0 41	17 57
M20	10 12	18 6	2 48	1 57	2 2	0 14	1 33	24 21	2 15	6 17	1 6	11 1	2 44	1 40	0 41	17 57
T 21	10 34	12 17	1 40	2 31	2 3	0s15	1 33	24 13	2 14	6 21	1 6	10 59	2 44	1 42	0 41	17 58
W22	10 55	5 54	0 25	3 6	2 3	0 44	1 34	24 6	2 13	6 26	1 6	10 58	2 44	1 43	0 41	17 58
T 23	11 16	0n42	0n49	3 43	2 1	1 13	1 34	23 59	2 11	6 31	1 6	10 56	2 44	1 44	0 41	17 58
F 24	11 37	7 10	2 1	4 21	2 0	1 42	1 34	23 51	2 10	6 36	1 6	10 54	2 44	1 46	0 41	17 59
S 25	11 58	13 14	3 4	5 0	1 57	2 12	1 34	23 43	2 9	6 41	1 6	10 53	2 44	1 47	0 41	17 59
S 26	12 19	18 35	3 56	5 40	1 54	2 41	1 35	23 35	2 8	6 46	1 6	10 51	2 44	1 49	0 41	18 0
M27	12 39	22 58	4 34	6 20	1 50	3 10	1 35	23 26	2 7	6 51	1 6	10 50	2 44	1 50	0 41	18 0
T 28	12 59	26 10	4 58	7 0	1 46	3 39	1 35	23 17	2 5	6 55	1 6	10 48	2 44	1 51	0 41	18 1
W29	13 19	28 2	5 8	7 41	1 42	4 8	1 35	23 9	2 4	7 0	1 6	10 47	2 44	1 53	0 41	18 1
T 30	13 39	28 30	5 3	8 22	1 37	4 37	1 34	23 0	2 3	7 5	1 6	10 45	2 44	1 54	0 41	18 2
F 31	13s59	27n35	4n45	9s 3	1n32	5s 6	1n34	22s50	2s 2	7s10	1n 6	10n43	2s44	1s55	0n41	18s 2

Julian Day Number = 2440495.5, Delta T = 39.93 sec  
Ecliptic obliquity = 23°26'45", Nutation = 0°00'02", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 24°19'04", Lahiri = 23°26'04"

ASTRODIENST EPHEMERIS for the year 1969  
geocentric

NOVEMBER 1969

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 25	8♍23'34	24♌17	28♊50	17♊54	27♊18	21♊10	5°R14	6♊29	27♍42	26♍27	19°R50	18♋31	25♊58	3°R10	S 1
S 2	2 44 22	9°23'37	6♌8	0♍29	19°8	28°1	21°23	5♊9	6°33	27°44	26°29	19°D49	18°28	26°5	3♋8	S 2
M 3	2 48 18	10°23'42	18°0	2°9	20°23	28°43	21°36	5°4	6°36	27°46	26°30	19°K49	18°25	26°11	3°6	M 3
T 4	2 52 15	11°23'49	29°59	3°48	21°38	29°26	21°49	4°59	6°39	27°49	26°32	19°50	18°21	26°18	3°4	T 4
W 5	2 56 12	12°23'59	12♍12	5°27	22°53	0♋9	22°1	4°55	6°43	27°51	26°34	19°51	18°18	26°25	3°2	W 5
T 6	3 0 8	13°24'10	24°42	7°6	24°8	0°52	22°14	4°50	6°46	27°53	26°36	19°R51	18°15	26°31	3°0	T 6
F 7	3 4 5	14°24'23	7♊33	8°44	25°23	1°35	22°26	4°45	6°49	27°55	26°37	19°50	18°12	26°38	2°58	F 7
S 8	3 8 1	15°24'38	20°47	10°22	26°38	2°19	22°39	4°40	6°52	27°57	26°39	19°46	18°9	26°45	2°57	S 8
S 9	3 11 58	16°24'55	4♍25	12°0	27°53	3°2	22°51	4°36	6°55	28°0	26°40	19°39	18°6	26°51	2°55	S 9
M10	3 15 54	17°25'14	18°25	13°38	29°8	3°45	23°4	4°31	6°59	28°2	26°42	19°31	18°2	26°58	2°53	M10
T 11	3 19 51	18°25'35	2♊42	15°15	0♍23	4°29	23°16	4°26	7°2	28°4	26°44	19°21	17°59	27°5	2°51	T 11
W12	3 23 47	19°25'57	17°11	16°52	1°38	5°12	23°29	4°22	7°5	28°6	26°45	19°11	17°56	27°12	2°50	W12
T 13	3 27 44	20°26'21	1♊44	18°28	2°53	5°56	23°41	4°17	7°8	28°8	26°47	19°3	17°53	27°18	2°48	T 13
F 14	3 31 41	21°26'47	16°16	20°5	4°8	6°40	23°53	4°13	7°11	28°11	26°48	18°56	17°50	27°25	2°46	F 14
S 15	3 35 37	22°27'13	0♋40	21°41	5°23	7°23	24°5	4°8	7°14	28°13	26°50	18°51	17°47	27°32	2°45	S 15
S 16	3 39 34	23°27'41	14°54	23°16	6°39	8°7	24°18	4°4	7°17	28°15	26°51	18°49	17°43	27°38	2°43	S 16
M17	3 43 30	24°28'11	28°55	24°52	7°54	8°51	24°30	3°59	7°20	28°17	26°52	18°D49	17°40	27°45	2°42	M17
T 18	3 47 27	25°28'41	12♋44	26°27	9°9	9°35	24°42	3°55	7°22	28°20	26°54	18°R50	17°37	27°52	2°41	T 18
W19	3 51 23	26°29'12	26°20	28°2	10°24	10°19	24°54	3°51	7°25	28°22	26°55	18°49	17°34	27°58	2°39	W19
T 20	3 55 20	27°29'45	9♋45	29°36	11°39	11°3	25°6	3°47	7°28	28°24	26°56	18°48	17°31	28°5	2°38	T 20
F 21	3 59 16	28°30'19	22°59	1♊11	12°55	11°47	25°18	3°42	7°31	28°26	26°58	18°43	17°27	28°12	2°37	F 21
S 22	4 3 13	29°30'55	6♊2	2°45	14°10	12°31	25°30	3°38	7°33	28°29	26°59	18°36	17°24	28°18	2°36	S 22
S 23	4 7 10	0♊31'32	18°54	4°19	15°25	13°15	25°41	3°34	7°36	28°31	27°0	18°25	17°21	28°25	2°34	S 23
M24	4 11 6	1°32'10	1♍35	5°53	16°40	13°59	25°53	3°30	7°39	28°33	27°1	18°13	17°18	28°32	2°33	M24
T 25	4 15 3	2°32'50	14°4	7°27	17°56	14°43	26°5	3°26	7°41	28°35	27°3	17°59	17°15	28°39	2°32	T 25
W26	4 18 59	3°33'31	26°22	9°0	19°11	15°27	26°16	3°23	7°44	28°38	27°4	17°46	17°12	28°45	2°31	W26
T 27	4 22 56	4°34'13	8♌28	10°34	20°26	16°12	26°28	3°19	7°46	28°40	27°5	17°34	17°8	28°52	2°30	T 27
F 28	4 26 52	5°34'57	20°26	12°7	21°42	16°56	26°40	3°15	7°49	28°42	27°6	17°23	17°5	28°59	2°29	F 28
S 29	4 30 49	6°35'42	2♌17	13°40	22°57	17°40	26°51	3°11	7°51	28°44	27°7	17°16	17°2	29°5	2°29	S 29
S 30	4 34 46	7♊36'29	14♌5	15♊14	24♍12	18♋25	27♊2	3♊8	7♊54	28♍47	27♍8	17♋11	16♋59	29♌12	2♋28	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	14s18	25n26	4n14	9s43	1n26	5s34	1n34	22s41	2s 1	7s14	1n 6	10n42	2s44	1s57	0n41	18s 3	1n39	15n25	15n18	4s 2	4s33	24n59	3n59	2n58			
S 2	14 38	22 11	3 33	10 23	1 20	6 3	1 34	22 31	2 0	7 19	1 6	10 40	2 43	1 58	0 41	18 3	1 39	15 25	15 19	4 2	4 34	24 57	3 58	2 58			
M 3	14 57	18 1	2 43	11 3	1 15	6 32	1 33	22 21	1 58	7 24	1 6	10 39	2 43	1 59	0 41	18 4	1 39	15 25	15 19	4 2	4 35	24 55	3 57	2 58			
T 4	15 15	13 7	1 45	11 43	1 8	7 0	1 33	22 11	1 57	7 29	1 6	10 37	2 43	2 1	0 41	18 4	1 39	15 24	15 19	4 2	4 36	24 53	3 56	2 58			
W 5	15 34	7 37	0 41	12 22	1 2	7 29	1 32	22 1	1 56	7 33	1 6	10 36	2 43	2 2	0 41	18 5	1 39	15 24	15 20	4 1	4 38	24 51	3 55	2 58			
T 6	15 52	1 42	0s26	13 1	0 56	7 57	1 31	21 50	1 55	7 38	1 6	10 34	2 43	2 3	0 41	18 5	1 39	15 24	15 20	4 1	4 39	24 49	3 54	2 57			
F 7	16 10	4s26	1 33	13 38	0 49	8 25	1 31	21 39	1 54	7 42	1 6	10 33	2 43	2 4	0 42	18 6	1 39	15 23	15 21	4 2	4 40	24 48	3 54	2 57			
S 8	16 28	10 33	2 38	14 16	0 43	8 53	1 30	21 28	1 52	7 47	1 7	10 31	2 43	2 6	0 42	18 6	1 39	15 23	15 21	4 3	4 41	24 46	3 53	2 57			
S 9	16 45	16 22	3 35	14 52	0 36	9 20	1 29	21 17	1 51	7 52	1 7	10 30	2 43	2 7	0 42	18 7	1 39	15 23	15 21	4 6	4 43	24 44	3 52	2 57			
M10	17 2	21 29	4 21	15 28	0 29	9 48	1 28	21 6	1 50	7 56	1 7	10 28	2 43	2 8	0 42	18 7	1 39	15 23	15 22	4 9	4 44	24 42	3 51	2 57			
T 11	17 19	25 28	4 51	16 3	0 22	10 15	1 27	20 54	1 49	8 1	1 7	10 27	2 43	2 9	0 42	18 8	1 39	15 22	15 22	4 13	4 45	24 40	3 50	2 56			
W12	17 36	27 52	5 4	16 38	0 16	10 42	1 26	20 43	1 47	8 5	1 7	10 25	2 43	2 10	0 42	18 8	1 39	15 22	15 23	4 17	4 46	24 38	3 49	2 56			
T 13	17 52	28 22	4 56	17 11	0 9	11 9	1 25	20 31	1 46	8 10	1 7	10 24	2 43	2 12	0 42	18 9	1 39	15 22	15 23	4 20	4 47	24 36	3 48	2 56			
F 14	18 8	26 55	4 30	17 44	0 2	11 35	1 24	20 18	1 45	8 14	1 7	10 23	2 42	2 13	0 42	18 9	1 39	15 22	15 24	4 23	4 49	24 34	3 48	2 56			
S 15	18 23	23 42	3 47	18 16	0s 5	12 1	1 23	20 6	1 44	8 19	1 7	10 21	2 42	2 14	0 42	18 10	1 39	15 22	15 24	4 25	4 50	24 33	3 47	2 56			
S 16	18 39	19 5	2 50	18 47	0 11	12 27	1 21	19 54	1 43	8 23	1 7	10 20	2 42	2 15	0 42	18 10	1 39	15 21	15 24	4 25	4 51	24 31	3 46	2 55			
M17	18 54	13 29	1 44	19 17	0 18	12 53	1 20	19 41	1 41	8 27	1 7	10 19	2 42	2 16	0 42	18 11	1 39	15 21	15 25	4 26	4 52	24 29	3 45	2 55			
T 18	19 8	7 17	0 32	19 46	0 25	13 18	1 19	19 28	1 40	8 32	1 7	10 17	2 42	2 17	0 42	18 11	1 39	15 21	15 25	4 25	4 54	24 27	3 45	2 55			
W19	19 22	0 51	0n40	20 14	0 31	13 43	1 17	19 15	1 39	8 36	1 7	10 16	2 42	2 18	0 42	18 12	1 39	15 21	15 26	4 25	4 55	24 25	3 44	2 55			
T 20	19 36	5n32	1 49	20 41	0 38	14 8	1 16	19 2	1 38	8 40	1 7	10 15	2 42	2 19	0 42	18 12	1 39	15 21	15 26	4 26	4 56	24 23	3 43	2 55			
F 21	19 50	11 34	2 51	21 7	0 44	14 32	1 14	18 48	1 37	8 45	1 7	10 13	2 41	2 20	0 42	18 13	1 39	15 21	15 27	4 28	4 57	24 21	3 42	2 55			
S 22	20 3	17 2	3 43	21 32	0 50	14 56	1 13	18 35	1 35	8 49	1 7	10 12	2 41	2 22	0 42	18 13	1 39	15 21	15 27	4 31	4 59	24 19	3 42	2 54			
S 23	20 16	21 39	4 22	21 56	0 56	15 20	1 11	18 21	1 34	8 53	1 8	10 11	2 41	2 23	0 42	18 14	1 39	15 21	15 28	4 35	5 0	24 17	3 41	2 54			
M24	20 28	25 11	4 48	22 19	1 2	15 43	1 9	18 7	1 33	8 57	1 8	10 10	2 41	2 24	0 42	18 14	1 39	15 21	15 28	4 40	5 1	24 15	3 41	2 54			
T 25	20 41	27 27	5 0	22 41	1 8	16 6	1 8	17 53	1 32	9 1	1 8	10 9	2 41	2 25	0 42	18 15	1 39	15 21	15 29	4 45	5 2	24 13	3 40	2 54			
W26	20 52	28 21	4 57	23 1	1 14	16 28	1 6	17 39	1 31	9 5	1 8	10 8	2 41	2 26	0 42	18 15	1 39	15 21	15 29	4 50	5 4	24 11	3 39	2 53			
T 27	21 4	27 51	4 41	23 21	1 19	16 50	1 4	17 24	1 29	9 9	1 8	10 6	2 40	2 26	0 42	18 16	1 39	15 21	15 30	4 55	5 5	24 9	3 39	2 53			
F 28	21 14	26 3	4 13	23 39	1 25	17 11	1 2	17 10	1 28	9 14	1 8	10 5	2 40	2 27	0 42	18 16	1 39	15 21	15 30	4 59	5 6	24 7	3 38	2 53			
S 29	21 25	23 7	3 34	23 56	1 30	17 33	1 0	16 55	1 27	9 18	1 8	10 4	2 40	2 28	0 42	18 17	1 39	15 21	15 31	5 2	5 7	24 5	3 38	2 53			
S 30	21s35	19n15	2n45	24s12	1s35	17s53	0n58	16s40	1s26	9s22	1n 8	10n 3	2s40	2s29	0n42	18s17	1n39	15n21	15n31	5s 4	5s 9	24n 3	3n37	2n53			

## ASTRODIENST EPHEMERIS for the year 1969

geocentric

DECEMBER 1969

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 38 42	8°37'17	25°55	16°47	25°28	19°39	27°14	3°R 4	7°56	28°49	27°9	17°R 9	16°56	29°19	2°R27	M 1	
T 2	4 42 39	9°38'07	7°52	18°20	26°43	19°53	27°25	3°R 1	7°58	28°51	27°10	17°D 9	16°53	29°25	2°Y26	T 2	
W 3	4 46 35	10°38'58	20° 1	19°53	27°58	20°38	27°36	2°58	8° 0	28°53	27°11	17°R 9	16°49	29°32	2°26	W 3	
T 4	4 50 32	11°39'50	2°29	21°26	29°14	21°22	27°47	2°55	8° 3	28°56	27°12	17°R 8	16°46	29°39	2°25	T 4	
F 5	4 54 28	12°40'44	15°19	22°58	0°29	22° 7	27°58	2°51	8° 5	28°58	27°13	17° 6	16°43	29°45	2°25	F 5	
S 6	4 58 25	13°41'39	28°35	24°31	1°45	22°51	28° 9	2°48	8° 7	29° 0	27°13	17° 1	16°40	29°52	2°24	S 6	
S 7	5 2 21	14°42'35	12°21	26° 4	3° 0	23°36	28°20	2°45	8° 9	29° 2	27°14	16°53	16°37	29°59	2°24	S 7	
M 8	5 6 18	15°43'33	26°33	27°36	4°16	24°20	28°31	2°42	8°11	29° 4	27°15	16°43	16°33	0°52	2°23	M 8	
T 9	5 10 15	16°44'32	11°10	29° 9	5°31	25° 5	28°41	2°40	8°13	29° 7	27°16	16°31	16°30	0°12	2°23	T 9	
W10	5 14 11	17°45'31	26° 3	0°34	6°47	25°50	28°52	2°37	8°15	29° 9	27°17	16°18	16°27	0°19	2°23	W10	
T 11	5 18 8	18°46'32	11°3	2°13	8° 2	26°34	29° 2	2°34	8°17	29°11	27°17	16° 7	16°24	0°26	2°23	T 11	
F 12	5 22 4	19°47'33	26° 0	3°45	9°17	27°19	29°13	2°32	8°18	29°13	27°18	15°58	16°21	0°32	2°22	F 12	
S 13	5 26 1	20°48'35	10°47	5°16	10°33	28° 4	29°23	2°30	8°20	29°15	27°18	15°52	16°18	0°39	2°22	S 13	
S 14	5 29 57	21°49'37	25°17	6°47	11°48	28°48	29°33	2°27	8°22	29°17	27°19	15°49	16°14	0°46	2°D22	S 14	
M15	5 33 54	22°50'40	9°26	8°18	13° 4	29°33	29°43	2°25	8°23	29°19	27°20	15°48	16°11	0°52	2°22	M15	
T 16	5 37 50	23°51'43	23°15	9°48	14°19	0°18	29°53	2°23	8°25	29°22	27°20	15°48	16° 8	0°59	2°22	T 16	
W17	5 41 47	24°52'46	6°45	11°17	15°35	1° 3	0°13	2°21	8°27	29°24	27°21	15°47	16° 5	1° 6	2°23	W17	
T 18	5 45 44	25°53'50	19°57	12°46	16°50	1°47	0°13	2°19	8°28	29°26	27°21	15°45	16° 2	1°12	2°23	T 18	
F 19	5 49 40	26°54'54	2°54	14°13	18° 6	2°32	0°23	2°17	8°29	29°28	27°21	15°41	15°59	1°19	2°23	F 19	
S 20	5 53 37	27°55'59	15°39	15°39	19°21	3°17	0°33	2°16	8°31	29°30	27°22	15°33	15°55	1°26	2°23	S 20	
S 21	5 57 33	28°57'04	28°12	17° 4	20°37	4° 2	0°42	2°14	8°32	29°32	27°22	15°23	15°52	1°32	2°24	S 21	
M22	6 1 30	29°58'09	10°36	18°27	21°52	4°47	0°51	2°12	8°33	29°34	27°22	15°10	15°49	1°39	2°24	M22	
T 23	6 5 26	0°59'14	22°51	19°48	23° 8	5°31	1° 1	2°11	8°35	29°36	27°23	14°56	15°46	1°46	2°25	T 23	
W24	6 9 23	2° 0'21	4°58	21° 6	24°23	6°16	1°10	2°10	8°36	29°38	27°23	14°42	15°43	1°52	2°25	W24	
T 25	6 13 20	3° 1'27	16°57	22°22	25°39	7° 1	1°19	2° 9	8°37	29°40	27°23	14°29	15°39	1°59	2°26	T 25	
F 26	6 17 16	4° 2'34	28°50	23°34	26°54	7°46	1°28	2° 8	8°38	29°42	27°23	14°19	15°36	2° 6	2°26	F 26	
S 27	6 21 13	5° 3'41	10°40	24°43	28°10	8°30	1°37	2° 7	8°39	29°44	27°23	14°11	15°33	2°12	2°27	S 27	
S 28	6 25 9	6° 4'48	22°27	25°47	29°25	9°15	1°46	2° 6	8°40	29°46	27°23	14° 6	15°30	2°19	2°28	S 28	
M29	6 29 6	7° 5'56	4°17	26°45	0°41	10° 0	1°54	2° 5	8°41	29°48	27°24	14° 3	15°27	2°26	2°29	M29	
T 30	6 33 2	8° 7'05	16°12	27°38	1°56	10°45	2° 3	2° 5	8°42	29°49	27°24	14°D 3	15°24	2°33	2°29	T 30	
W31	6 36 59	9° 8'14	28°19	28°23	3°12	11°29	2°11	2° 4	8°43	29°51	27°24	14°H 3	15°20	2°39	2°Y30	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	decl lat
M 1	21s45	14n36	1n50	24s26	1s40	18s13	0n56	16s25	1s25	9s26	1n 8	10n 2	2s40	2s30	0n42	18s18	1n39
T 2	21 54	9 23	0 49	24 40	1 44	18 33	0 54	16 10	1 23	9 29	1 8	10 1	2 39	2 31	0 42	18 18	1 39
W 3	22 3	3 43	0s15	24 52	1 48	18 52	0 52	15 55	1 22	9 33	1 9	10 1	2 39	2 32	0 42	18 19	1 39
T 4	22 11	2s13	1 20	25 2	1 53	19 10	0 50	15 40	1 21	9 37	1 9	10 0	2 39	2 33	0 42	18 19	1 39
F 5	22 19	8 14	2 23	25 12	1 56	19 29	0 48	15 24	1 20	9 41	1 9	9 59	2 39	2 33	0 42	18 20	1 39
S 6	22 27	14 5	3 20	25 20	2 0	19 46	0 46	15 8	1 19	9 45	1 9	9 58	2 38	2 34	0 42	18 20	1 39
S 7	22 34	19 28	4 8	25 26	2 3	20 3	0 44	14 52	1 17	9 49	1 9	9 57	2 38	2 35	0 42	18 21	1 39
M 8	22 41	23 57	4 42	25 32	2 6	20 19	0 41	14 37	1 16	9 52	1 9	9 56	2 38	2 36	0 42	18 21	1 39
T 9	22 47	27 3	4 59	25 35	2 9	20 35	0 39	14 20	1 15	9 56	1 9	9 56	2 38	2 37	0 42	18 22	1 39
W10	22 53	28 19	4 56	25 38	2 11	20 50	0 37	14 4	1 14	10 0	1 9	9 55	2 38	2 37	0 42	18 22	1 39
T 11	22 58	27 31	4 32	25 39	2 13	21 5	0 35	13 48	1 13	10 3	1 9	9 54	2 37	2 38	0 42	18 23	1 39
F 12	23 3	24 44	3 51	25 38	2 15	21 19	0 32	13 31	1 11	10 7	1 10	9 54	2 37	2 39	0 42	18 23	1 39
S 13	23 8	20 19	2 54	25 36	2 16	21 32	0 30	13 15	1 10	10 10	1 10	9 53	2 37	2 39	0 43	18 23	1 39
S 14	23 12	14 46	1 46	25 33	2 16	21 45	0 28	12 58	1 9	10 14	1 10	9 53	2 36	2 40	0 43	18 24	1 39
M15	23 15	8 33	0 34	25 27	2 17	21 57	0 25	12 42	1 8	10 17	1 10	9 52	2 36	2 41	0 43	18 24	1 39
T 16	23 18	2 5	0n39	25 21	2 16	22 9	0 23	12 25	1 7	10 21	1 10	9 52	2 36	2 41	0 43	18 25	1 39
W17	23 21	4n20	1 48	25 13	2 16	22 19	0 21	12 8	1 6	10 24	1 10	9 51	2 36	2 42	0 43	18 25	1 39
T 18	23 23	10 25	2 50	25 3	2 14	22 30	0 18	11 51	1 4	10 27	1 10	9 51	2 35	2 42	0 43	18 26	1 39
F 19	23 25	15 57	3 42	24 53	2 12	22 39	0 16	11 33	1 3	10 30	1 11	9 50	2 35	2 43	0 43	18 26	1 39
S 20	23 26	20 41	4 21	24 40	2 9	22 48	0 13	11 16	1 2	10 34	1 11	9 50	2 35	2 43	0 43	18 26	1 39
S 21	23 26	24 26	4 47	24 26	2 6	22 56	0 11	10 59	1 1	10 37	1 11	9 50	2 35	2 44	0 43	18 27	1 39
M22	23 27	26 59	4 59	24 11	2 2	23 3	0 8	10 41	1 0	10 40	1 11	9 50	2 34	2 44	0 43	18 27	1 39
T 23	23 26	28 12	4 58	23 55	1 57	23 10	0 6	10 24	0 59	10 43	1 11	9 49	2 34	2 45	0 43	18 28	1 39
W24	23 26	28 3	4 42	23 38	1 52	23 16	0 4	10 6	0 58	10 46	1 11	9 49	2 34	2 45	0 43	18 28	1 39
T 25	23 25	26 35	4 14	23 19	1 45	23 21	0 1	9 49	0 56	10 49	1 11	9 49	2 33	2 46	0 43	18 28	1 39
F 26	23 23	23 55	3 36	22 59	1 38	23 26	0s 1	9 31	0 55	10 52	1 12	9 49	2 33	2 46	0 43	18 29	1 39
S 27	23 21	20 15	2 48	22 39	1 29	23 30	0 4	9 13	0 54	10 55	1 12	9 49	2 33	2 46	0 43	18 29	1 39
S 28	23 18	15 48	1 52	22 18	1 20	23 33	0 6	8 55	0 53	10 58	1 12	9 49	2 33	2 47	0 43	18 30	1 39
M29	23 15	10 45	0 52	21 56	1 9	23 35	0 8	8 37	0 52	11 1	1 12	9 49	2 32	2 47	0 43	18 30	1 39
T 30	23 12	5 16	0s12	21 35	0 57	23 37	0 11	8 19	0 51	11 3	1 12	9 49	2 32	2 47	0 43	18 30	1 39
W31	23s 8	0s29	1s15	21s13	0s44	23s38	0s13	8s 1	0s50	11s 6	1n12	9n49	2s32	2s48	0n43	18s31	1n39

Julian Day Number = 2440556.5, Delta T = 40.10 sec

Ecliptic obliquity = 23°26'44", Nutation = 0°00'03", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°19'12", Lahiri = 23°26'13"