



SWISS EPHEMERIS for the year 2023

FEBRUARY 2023

00:00 UT

Table with 16 columns: Day, Sid.t, ☉, ☽, ♃, ♆, ♂, ♀, ♄, ♁, ♃, ♅, ♁, ♁, ☾, ☽. Rows for days W 1 to T 28.

Table with 16 columns: Day, ☉, ☽, ♃, ♆, ♂, ♀, ♄, ♁, ♃, ♅, ♁, ♁, ☾, ☽. Rows for days W 1 to T 28 with sub-columns for decl and lat.

Julian Day Number = 2459976.5, Delta T = 75.95 sec
Ecliptic obliquity = 23°26'18", Nutation = - 0°00'09"
Ayanamsha: Fagan/Bradley = 25°03'46", Lahiri = 24°10'46"





SWISS EPHEMERIS for the year 2023

MAY 2023

00:00 UT

Table with 16 columns (Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ☾, ☿, ♁, ♃) and 31 rows of astronomical data.

Table with 17 columns (Day, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ☾, ☿, ♁, ♃) and 31 rows of astronomical data.

Julian Day Number = 2460065.5, Delta T = 76.34 sec
Ecliptic obliquity = 23°26'18, Nutation = - 0°00'10
Ayanamsha: Fagan/Bradley = 25°03'59, Lahiri = 24°10'59





SWISS EPHEMERIS for the year 2023

AUGUST 2023

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 37 23	8♌31'31"	27♈29'	4♍14	27♈1	13♍14	13♈41	5♌R43	22♈45	27♌R26	28♌R54	28♌R32	28♌Y59	22♌54	19♌R56

Day	☉	☽	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	18n 8	25s34	5s 1	9n52	0s 6	7n19	5s30	7n26	0n55	14n47	1s13	11s 1	1s44	18n 9	0s19

Julian Day Number = 2460157.5, Delta T = 76.74 sec  
 Ecliptic obliquity = 23°26'18", Nutation = -0°00'07"  
 Ayanamsha: Fagan/Bradley = 25°04'11", Lahiri = 24°11'11"



# SWISS EPHEMERIS for the year 2023

SEPTEMBER 2023

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♄	♃	♁	♆	♁	♁	♁	♁	♁
F 1	22 39 36	8♍19°23	21♋36	18°R37	12°R23	2♃51	15♂34	3°R29	23°R 4	26°R46	28°R15	25°R48	27°Y20	26♌22	19°R19
S 2	22 43 33	9°17'24	6♋33	17♍48	12♌17	3°30	15°34	3♋25	23♉4	26♋45	28♉14	25°Y45	27°17	26°29	19°Y17
S 3	22 47 30	10°15'27	21° 7	16°55	12°14	4° 9	15°35	3°20	23° 4	26°43	28°13	25°D43	27°14	26°35	19°15
M 4	22 51 26	11°13'32	5♉15	16° 0	12°D12	4°47	15°35	3°16	23° 4	26°42	28°12	25°44	27°11	26°42	19°13
T 5	22 55 23	12°11'39	18°54	15° 2	12°13	5°26	15°R35	3°11	23° 3	26°40	28°11	25°45	27° 7	26°49	19°11
W 6	22 59 19	13° 9'48	2♍ 7	14° 4	12°17	6° 5	15°35	3° 7	23° 3	26°38	28°10	25°46	27° 4	26°55	19° 9
T 7	23 3 16	14° 7'59	14°56	13° 6	12°22	6°44	15°34	3° 2	23° 3	26°37	28° 9	25°R47	27° 1	27° 2	19° 7
F 8	23 7 12	15° 6'12	27°26	12°10	12°30	7°23	15°34	2°58	23° 2	26°35	28° 8	25°46	26°58	27° 9	19° 5
S 9	23 11 9	16° 4'27	9♉41	11°16	12°40	8° 2	15°33	2°53	23° 2	26°34	28° 8	25°43	26°55	27°16	19° 3
S 10	23 15 5	17° 2'44	21°44	10°27	12°52	8°41	15°32	2°49	23° 1	26°32	28° 7	25°39	26°52	27°22	19° 1
M11	23 19 2	18° 1'03	3♌40	9°44	13° 7	9°20	15°31	2°45	23° 0	26°30	28° 6	25°33	26°48	27°29	18°58
T 12	23 22 59	18°59'24	15°32	9° 7	13°23	9°59	15°29	2°40	23° 0	26°29	28° 5	25°27	26°45	27°36	18°56
W13	23 26 55	19°57'47	27°23	8°37	13°41	10°38	15°28	2°36	22°59	26°27	28° 4	25°20	26°42	27°42	18°54
T 14	23 30 52	20°56'12	9♍15	8°16	14° 1	11°17	15°26	2°32	22°58	26°25	28° 4	25°14	26°39	27°49	18°51
F 15	23 34 48	21°54'39	21° 9	8° 4	14°23	11°56	15°24	2°28	22°57	26°24	28° 3	25° 8	26°36	27°56	18°49
S 16	23 38 45	22°53'07	3♌ 8	8°D 0	14°47	12°36	15°22	2°24	22°57	26°22	28° 2	25° 5	26°33	28° 2	18°47
S 17	23 42 41	23°51'38	15°13	8° 6	15°12	13°15	15°19	2°20	22°56	26°20	28° 2	25° 3	26°29	28° 9	18°44
M18	23 46 38	24°50'10	27°27	8°22	15°39	13°54	15°17	2°16	22°55	26°19	28° 1	25°D 2	26°26	28°16	18°42
T 19	23 50 34	25°48'44	9♍51	8°47	16° 8	14°34	15°14	2°12	22°54	26°17	28° 0	25° 3	26°23	28°23	18°39
W20	23 54 31	26°47'20	22°28	9°21	16°38	15°13	15°11	2° 8	22°53	26°15	28° 0	25° 5	26°20	28°29	18°37
T 21	23 58 28	27°45'57	5♀21	10° 4	17° 9	15°53	15° 8	2° 4	22°52	26°14	27°59	25° 6	26°17	28°36	18°35
F 22	0 2 24	28°44'37	18°33	10°55	17°42	16°32	15° 5	2° 0	22°50	26°12	27°59	25° 8	26°13	28°43	18°32
S 23	0 6 21	29°43'18	2♉ 5	11°54	18°16	17°12	15° 1	1°56	22°49	26°10	27°58	25°R 8	26°10	28°49	18°29
S 24	0 10 17	0♁42'00	16° 1	13° 0	18°52	17°52	14°57	1°53	22°48	26° 9	27°58	25° 7	26° 7	28°56	18°27
M25	0 14 14	1°40'44	0♁18	14°12	19°29	18°31	14°53	1°49	22°47	26° 7	27°57	25° 5	26° 4	29° 3	18°24
T 26	0 18 10	2°39'30	14°56	15°31	20° 7	19°11	14°49	1°45	22°45	26° 6	27°57	25° 3	26° 1	29° 9	18°22
W27	0 22 7	3°38'18	29°49	16°54	20°46	19°51	14°45	1°42	22°44	26° 4	27°56	25° 0	25°58	29°16	18°19
T 28	0 26 3	4°37'07	14♋49	18°22	21°27	20°31	14°40	1°38	22°43	26° 2	27°56	24°57	25°54	29°23	18°17
F 29	0 30 0	5°35'58	29°49	19°54	22° 9	21°10	14°36	1°35	22°41	26° 1	27°56	24°55	25°51	29°30	18°14
S 30	0 33 56	6♁34'52	14°Y40	21♍30	22♌51	21♃50	14♂31	1°32	22♉40	25♋59	27♉55	24°Y54	25°Y48	29♌36	18°Y11

Day	☉	☽	♀	♁	♂	♄	♃	♁	♆	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	8n27	5s59	2s53	0n22	4s29	9n59	7s23	0s33	0n38	15n14	1s19	11s54	1s47	18n14	0s19
S 2	8 5	1n 3	1 42	0 45	4 26	10 7	7 16	0 49	0 38	15 14	1 19	11 55	1 47	18 14	0 19
S 3	7 43	7 51	0 25	1 10	4 20	10 15	7 9	1 5	0 37	15 14	1 19	11 57	1 47	18 14	0 19
M 4	7 21	14 5	0n51	1 39	4 12	10 23	7 1	1 20	0 37	15 14	1 20	11 59	1 47	18 14	0 19
T 5	6 59	19 24	2 2	2 9	4 3	10 30	6 53	1 36	0 36	15 14	1 20	12 0	1 47	18 14	0 19
W 6	6 37	23 35	3 4	2 42	3 52	10 37	6 45	1 52	0 36	15 14	1 20	12 2	1 47	18 14	0 19
T 7	6 15	26 29	3 55	3 17	3 39	10 44	6 37	2 8	0 35	15 13	1 20	12 4	1 47	18 13	0 19
F 8	5 52	27 58	4 33	3 52	3 24	10 50	6 28	2 24	0 34	15 13	1 20	12 5	1 47	18 13	0 19
S 9	5 30	28 2	4 58	4 27	3 8	10 56	6 19	2 40	0 34	15 13	1 21	12 7	1 47	18 13	0 19
S 10	5 7	26 46	5 9	5 1	2 50	11 1	6 10	2 56	0 33	15 12	1 21	12 8	1 47	18 13	0 19
M11	4 44	24 18	5 7	5 35	2 32	11 6	6 1	3 12	0 33	15 12	1 21	12 10	1 47	18 13	0 19
T 12	4 21	20 49	4 51	6 6	2 13	11 10	5 52	3 28	0 32	15 11	1 21	12 11	1 47	18 13	0 19
W13	3 59	16 30	4 23	6 35	1 53	11 14	5 43	3 43	0 32	15 11	1 21	12 13	1 47	18 13	0 19
T 14	3 36	11 34	3 44	7 1	1 34	11 17	5 34	3 59	0 31	15 10	1 21	12 15	1 47	18 12	0 19
F 15	3 13	6 11	2 54	7 24	1 14	11 20	5 24	4 15	0 31	15 9	1 22	12 16	1 47	18 12	0 19
S 16	2 49	0 33	1 57	7 43	0 55	11 22	5 15	4 31	0 30	15 8	1 22	12 18	1 47	18 12	0 19
S 17	2 26	5s10	0 53	7 58	0 36	11 24	5 6	4 47	0 29	15 7	1 22	12 19	1 47	18 12	0 19
M18	2 3	10 46	0s13	8 9	0 18	11 25	4 56	5 3	0 29	15 7	1 22	12 20	1 47	18 11	0 19
T 19	1 40	16 2	1 20	8 15	0 1	11 26	4 47	5 18	0 28	15 6	1 22	12 22	1 47	18 11	0 19
W20	1 17	20 43	2 25	8 17	0n15	11 26	4 38	5 34	0 28	15 5	1 22	12 23	1 47	18 11	0 19
T 21	0 53	24 32	3 23	8 15	0 29	11 26	4 28	5 50	0 27	15 5	1 23	12 25	1 47	18 11	0 19
F 22	0 30	27 8	4 13	8 8	0 43	11 25	4 19	6 6	0 27	15 2	1 23	12 26	1 47	18 10	0 19
S 23	0 7	28 15	4 49	7 57	0 55	11 23	4 10	6 21	0 26	15 1	1 23	12 27	1 47	18 10	0 19
S 24	0s17	27 37	5 10	7 42	1 7	11 21	4 1	6 37	0 25	15 0	1 23	12 29	1 47	18 10	0 19
M25	0 40	25 11	5 13	7 24	1 17	11 18	3 52	6 53	0 25	14 59	1 23	12 30	1 47	18 9	0 19
T 26	1 3	21 4	4 56	7 1	1 25	11 15	3 43	7 8	0 24	14 57	1 23	12 31	1 47	18 9	0 19
W27	1 27	15 34	4 19	6 36	1 33	11 11	3 34	7 24	0 24	14 56	1 23	12 32	1 47	18 9	0 19
T 28	1 50	9 6	3 23	6 7	1 39	11 7	3 25	7 39	0 23	14 55	1 24	12 34	1 47	18 8	0 19
F 29	2 13	2 7	2 14	5 35	1 44	11 2	3 16	7 55	0 23	14 53	1 24	12 35	1 47	18 8	0 19
S 30	2s37	4n55	0s56	5n 2	1n48	10n57	3s 7	8s10	0n22	14n52	1s24	12s36	1s47	18n 8	0s19

Julian Day Number = 2460188.5, Delta T = 76.88 sec  
 Ecliptic obliquity = 23°26'19", Nutation = -0°00'07"  
 Ayanamsha: Fagan/Bradley = 25°04'16", Lahiri = 24°11'16"

SWISS EPHEMERIS for the year 2023

OCTOBER 2023

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	0 37 53	7♋33'47	29♏13	23♍ 8	23♌35	22♋30	14°R26	1°R29	22°R38	25°R57	27°R55	24°D54	25°V45	29♌43	18°R 9
M 2	0 41 50	8°32'44	13♋24	24°48	24°20	23°10	14♋21	1♋25	22♋37	25♋56	27♋55	24°V54	25°42	29°50	18°V 6
T 3	0 45 46	9°31'44	27°10	26°31	25° 5	23°50	14°16	1°22	22°35	25°54	27°54	24°55	25°39	29°56	18° 3
W 4	0 49 43	10°30'46	10♈29	28°15	25°52	24°30	14°10	1°19	22°34	25°53	27°54	24°57	25°35	0♏ 3	18° 1
T 5	0 53 39	11°29'50	23°24	29°59	26°39	25°11	14° 4	1°16	22°32	25°51	27°54	24°58	25°32	0°10	17°58
F 6	0 57 36	12°28'57	5♌58	1♌45	27°28	25°51	13°59	1°14	22°30	25°49	27°54	24°58	25°29	0°16	17°55
S 7	1 1 32	13°28'06	18°14	3°31	28°17	26°31	13°53	1°11	22°28	25°48	27°54	24°R58	25°26	0°23	17°52
S 8	1 5 29	14°27'17	0♉18	5°17	29° 7	27°11	13°47	1° 8	22°27	25°46	27°54	24°58	25°23	0°30	17°50
M 9	1 9 26	15°26'31	12°13	7° 4	29°57	27°52	13°40	1° 5	22°25	25°45	27°54	24°57	25°19	0°37	17°47
T 10	1 13 22	16°25'47	24° 4	8°50	0♏49	28°32	13°34	1° 3	22°23	25°43	27°54	24°56	25°16	0°43	17°44
W 11	1 17 19	17°25'05	5♎55	10°36	1°41	29°13	13°28	1° 1	22°21	25°42	27°D54	24°55	25°13	0°50	17°41
T 12	1 21 15	18°24'25	17°49	12°22	2°34	29°53	13°21	0°58	22°19	25°40	27°54	24°54	25°10	0°57	17°39
F 13	1 25 12	19°23'47	29°49	14° 8	3°28	0♌34	13°14	0°56	22°17	25°39	27°54	24°53	25° 7	1° 3	17°36
S 14	1 29 8	20°23'11	11♌57	15°53	4°22	1°14	13° 7	0°54	22°15	25°37	27°54	24°53	25° 4	1°10	17°33
S 15	1 33 5	21°22'38	24°16	17°37	5°17	1°55	13° 0	0°52	22°13	25°36	27°54	24°D52	25° 0	1°17	17°31
M 16	1 37 1	22°22'07	6♌46	19°21	6°12	2°36	12°53	0°50	22°11	25°34	27°54	24°53	24°57	1°23	17°28
T 17	1 40 58	23°21'37	19°28	21° 4	7° 8	3°16	12°46	0°48	22° 9	25°33	27°54	24°53	24°54	1°30	17°25
W 18	1 44 54	24°21'10	2♌23	22°47	8° 4	3°57	12°39	0°46	22° 7	25°31	27°54	24°53	24°51	1°37	17°22
T 19	1 48 51	25°20'44	15°32	24°29	9° 1	4°38	12°31	0°44	22° 5	25°30	27°54	24°R53	24°48	1°44	17°20
F 20	1 52 48	26°20'21	28°55	26°11	9°59	5°19	12°24	0°43	22° 3	25°29	27°55	24°53	24°45	1°50	17°17
S 21	1 56 44	27°19'59	12♋33	27°51	10°57	6° 0	12°16	0°41	22° 1	25°27	27°55	24°53	24°41	1°57	17°14
S 22	2 0 41	28°19'38	26°26	29°32	11°56	6°41	12° 8	0°40	21°58	25°26	27°55	24°D52	24°38	2° 4	17°12
M 23	2 4 37	29°19'20	10♌33	1♌11	12°55	7°22	12° 1	0°39	21°56	25°25	27°56	24°53	24°35	2°10	17° 9
T 24	2 8 34	0♏19'03	24°52	2°50	13°54	8° 3	11°53	0°37	21°54	25°23	27°56	24°53	24°32	2°17	17° 6
W 25	2 12 30	1°18'48	9♋20	4°29	14°54	8°44	11°45	0°36	21°52	25°22	27°56	24°53	24°29	2°24	17° 4
T 26	2 16 27	2°18'34	23°54	6° 6	15°55	9°25	11°37	0°35	21°49	25°21	27°57	24°54	24°25	2°30	17° 1
F 27	2 20 23	3°18'22	8♏29	7°44	16°55	10° 7	11°29	0°34	21°47	25°20	27°57	24°55	24°22	2°37	16°59
S 28	2 24 20	4°18'12	22°59	9°20	17°57	10°48	11°21	0°34	21°45	25°18	27°58	24°R55	24°19	2°44	16°56
S 29	2 28 17	5°18'04	7♌17	10°57	18°58	11°29	11°13	0°33	21°42	25°17	27°58	24°55	24°16	2°50	16°53
M 30	2 32 13	6°17'58	21°19	12°32	20° 0	12°11	11° 5	0°32	21°40	25°16	27°59	24°54	24°13	2°57	16°51
T 31	2 36 10	7♌17'53	5♈ 2	14♌ 8	21♏ 3	12♌52	10♋57	0♋32	21♋38	25♋15	27♋59	24♏52	24♏10	3♏ 4	16♏48

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	3s 0	11n34	0n24	4n25	1n51	10n51	2s58	8s26	0n21	14n50	1s24	12s37	1s47	18n 7	0s19	2s47	1s17	23s16	2s44	9n38	9n57	15n34	8n32	1n32
M 2	3 23 17	28 18	1 41	3 47	1 53	10 44	2 50	8 41	0 21	14 48	1 24	12 38	1 47	18 7	0 19	2 47	1 17	23 16	2 44	9 39	9 56	15 31	8 31	1 32
T 3	3 47 22	26 16	2 49	3 8	1 54	10 37	2 41	8 56	0 20	14 47	1 24	12 39	1 47	18 6	0 19	2 48	1 17	23 16	2 44	9 39	9 55	15 28	8 30	1 32
W 4	4 10 25	45 3 46	2 27	1 54	10 30	2 33	9 11	0 20	14 45	1 24	12 40	1 47	18 6	0 19	2 49	1 17	23 16	2 44	9 39	9 54	15 25	8 29	1 32	
T 5	4 33 27	46 4 30	1 45	1 54	10 22	2 25	9 27	0 19	14 43	1 24	12 41	1 47	18 6	0 19	2 49	1 17	23 16	2 44	9 40	9 52	15 23	8 28	1 32	
F 6	4 56 28	17 4 59	1 2	1 53	10 13	2 17	9 42	0 19	14 41	1 24	12 42	1 47	18 5	0 19	2 50	1 17	23 16	2 44	9 40	9 51	15 20	8 27	1 32	
S 7	5 19 27	23 5 14	0 18	1 51	10 4	2 8	9 57	0 18	14 40	1 25	12 43	1 47	18 5	0 19	2 51	1 17	23 16	2 44	9 40	9 50	15 17	8 25	1 32	
S 8	5 42 25	13 5 15	0s27	1 48	9 54	2 0	10 12	0 17	14 38	1 25	12 44	1 47	18 4	0 19	2 51	1 17	23 16	2 44	9 40	9 49	15 14	8 24	1 32	
M 9	6 5 21	58 5 2	1 12	1 45	9 44	1 53	10 27	0 17	14 36	1 25	12 45	1 47	18 4	0 19	2 52	1 17	23 16	2 44	9 40	9 48	15 11	8 23	1 32	
T 10	6 28 17	51 4 37	1 57	1 42	9 33	1 45	10 42	0 16	14 34	1 25	12 46	1 47	18 3	0 19	2 52	1 17	23 16	2 44	9 39	9 47	15 8	8 22	1 31	
W 11	6 50 13	3 3 59	2 42	1 38	9 22	1 37	10 57	0 16	14 32	1 25	12 46	1 46	18 3	0 19	2 53	1 17	23 16	2 44	9 39	9 45	15 5	8 21	1 31	
T 12	7 13 7	45 3 11	3 27	1 34	9 10	1 30	11 12	0 15	14 30	1 25	12 47	1 46	18 2	0 19	2 54	1 17	23 16	2 44	9 38	9 44	15 2	8 20	1 31	
F 13	7 35 2	8 2 15	4 12	1 29	8 58	1 22	11 27	0 15	14 28	1 25	12 48	1 46	18 2	0 19	2 54	1 17	23 16	2 44	9 38	9 43	15 0	8 19	1 31	
S 14	7 58 3s38	1 11 4 57	1 24	8 45	1 15	11 41	0 14	14 25	1 25	12 49	1 46	18 1	0 19	2 55	1 17	23 16	2 44	9 38	9 42	14 57	8 18	1 31		
S 15	8 20 9	21 0 3	5 42	1 19	8 41	1 8	11 56	0 13	14 23	1 25	12 49	1 46	18 1	0 19	2 55	1 17	23 16	2 44	9 38	9 41	14 54	8 17	1 31	
M 16	8 42 14	48 1s 5	6 27	1 13	8 18	1 1	12 10	0 13	14 21	1 25	12 50	1 46	18 0	0 19	2 56	1 16	23 16	2 44	9 38	9 40	14 51	8 15	1 31	
T 17	9 4 19	43 2 12	7 11	1 7	8 4	0 54	12 25	0 12	14 19	1 25	12 50	1 46	18 0	0 19	2 56	1 16	23 16	2 44	9 38	9 38	14 48	8 14	1 31	
W 18	9 26 23	48 3 13	7 55	1 1	7 49	0 47	12 39	0 12	14 17	1 25	12 51	1 46	17 59	0 19	2 57	1 16	23 16	2 44	9 38	9 37	14 45	8 13	1 31	
T 19	9 48 26	43 4 6	8 38	0 55	7 34	0 40	12 54	0 11	14 14	1 25	12 52	1 46	17 59	0 19	2 57	1 16	23 16	2 44	9 38	9 36	14 42	8 12	1 31	
F 20	10 10 28	11 4 45	9 21	0 49	7 18	0 34	13 8	0 10	14 12	1 25	12 52	1 46	17 58	0 19	2 58	1 16	23 16	2 44	9 38	9 35	14 39	8 11	1 31	
S 21	10 31 27	59 5 10	10 3	0 42	7 2	0 27	13 22	0 10	14 10	1 25	12 52	1 46	17 58	0 19	2 59	1 16	23 16	2 44	9 38	9 34	14 36	8 10	1 31	
S 22	10 53 26	3 5 17	10 45	0 36	6 46	0 21	13 36	0 9	14 8	1 25	12 53	1 45	17 57	0 19	2 59	1 16	23 16	2 44	9 38	9 33	14 33	8 9	1 30	
M 23	11 14 22	29 5 5	11 26	0 29	6 29	0 15	13 50	0 9	14 5	1 25	12 53	1 45	17 56	0 19	3 0	1 16	23 16	2 44	9 38	9 31	14 30	8 8	1 30	
T 24	11 35 17	33 4 35	12 6	0 23	6 12	0 9	14 4	0 8	14 3	1 25	12 54	1 45	17 56	0 19	3 0	1 16	23 16	2 44	9 38	9 30	14 28	8 7	1 30	
W 25	11 56 11	34 3 47	12 46	0 16	5 54	0 3	14 18	0 7	14 0	1 25	12 54	1 45	17 55	0 19	3 1	1 16	23 15	2 44	9 38	9 29	14 25	8 5	1 30	
T 26	12 16 4	55 2 44	13 25	0 9	5 36	0n 3	14 31	0 7	13 58	1 25	12 54	1 45	17 55	0 19	3 1	1 16	23 15	2 44	9 38	9 28	14 22	8 4	1 30	
F 27	12 37 1n59	1 30 14	3 0 3	5 18	0 9	14 45	0 6	13 56	1 25	12 54	1 45	17 54	0 19	3 1	1 16	23 15	2 44	9 39	9 27	14 19	8 3	1 30		
S 28	12 57 8	46 0 11	14 40	0s 4	4 59	0 15	14 58	0 6	13 53	1 25	12 55	1 45	17 53	0 19	3 2	1 16	23 15	2 44	9 39	9 26	14 16	8 2	1 30	
S 29	13																							

# SWISS EPHEMERIS for the year 2023

NOVEMBER 2023

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	2 40 6	8M17:51	18II22	15M42	22m 5	13M34	10°R49	0°R31	21°R35	25°R14	28°R0	24°R51	24°Y 6	3m 11	16°R46
T 2	2 44 3	9°17:51	18II20	17°17	23° 9	14°15	10°R40	0°R31	21°R33	25°R13	28° 1	24°Y49	24° 0	3°17	16°Y43
F 3	2 47 59	10°17:54	13°57	18°50	24°12	14°57	10°32	0°31	21°30	25°12	28° 1	24°47	24° 3	3°24	16°41
S 4	2 51 56	11°17:58	26°17	20°24	25°16	15°38	10°24	0°D31	21°28	25°11	28° 2	24°45	23°57	3°31	16°38
S 5	2 55 52	12°18'04	8Ω22	21°57	26°20	16°20	10°16	0°31	21°25	25°10	28° 3	24°D45	23°54	3°37	16°36
M 6	2 59 49	13°18'13	20°18	23°29	27°24	17° 2	10° 8	0°31	21°23	25° 9	28° 3	24°45	23°50	3°44	16°34
T 7	3 3 46	14°18'23	2m 9	25° 1	28°29	17°44	10° 0	0°31	21°20	25° 8	28° 4	24°46	23°47	3°51	16°31
W 8	3 7 42	15°18'35	14° 0	26°33	29°34	18°25	9°52	0°32	21°18	25° 7	28° 5	24°47	23°44	3°57	16°29
T 9	3 11 39	16°18'50	25°56	28° 5	0Ω39	19° 7	9°43	0°32	21°16	25° 6	28° 6	24°49	23°41	4° 4	16°27
F 10	3 15 35	17°19'06	8Ω 0	29°36	1°45	19°49	9°35	0°33	21°13	25° 5	28° 7	24°50	23°38	4°11	16°24
S 11	3 19 32	18°19'24	20°17	1Ω 6	2°51	20°31	9°27	0°33	21°11	25° 4	28° 7	24°R51	23°35	4°17	16°22
S 12	3 23 28	19°19'45	2m49	2°37	3°57	21°13	9°20	0°34	21° 8	25° 3	28° 8	24°51	23°31	4°24	16°20
M13	3 27 25	20°20'07	15°37	4° 7	5° 3	21°55	9°12	0°35	21° 6	25° 3	28° 9	24°50	23°28	4°31	16°18
T 14	3 31 21	21°20'30	28°41	5°36	6°10	22°38	9° 4	0°36	21° 3	25° 2	28°10	24°47	23°25	4°38	16°16
W15	3 35 18	22°20'56	12Ω 2	7° 5	7°17	23°20	8°56	0°37	21° 1	25° 1	28°11	24°43	23°22	4°44	16°14
T 16	3 39 15	23°21'23	25°36	8°34	8°24	24° 2	8°48	0°38	20°58	25° 0	28°12	24°38	23°19	4°51	16°12
F 17	3 43 11	24°21'51	9Ω23	10° 2	9°31	24°44	8°41	0°39	20°56	25° 0	28°13	24°34	23°16	4°58	16°10
S 18	3 47 8	25°22'21	23°19	11°30	10°39	25°27	8°33	0°41	20°53	24°59	28°14	24°30	23°12	5° 4	16° 8
S 19	3 51 4	26°22'52	7Ω21	12°58	11°47	26° 9	8°26	0°42	20°51	24°58	28°15	24°27	23° 9	5°11	16° 6
M20	3 55 1	27°23'25	21°28	14°24	12°55	26°51	8°19	0°44	20°48	24°58	28°16	24°D26	23° 6	5°18	16° 4
T 21	3 58 57	28°23'58	5Ω37	15°50	14° 3	27°34	8°11	0°45	20°46	24°57	28°18	24°26	23° 3	5°24	16° 2
W22	4 2 54	29°24'33	19°47	17°16	15°11	28°17	8° 4	0°47	20°43	24°57	28°19	24°27	23° 0	5°31	16° 0
T 23	4 6 50	0Ω25'09	3Y56	18°41	16°20	28°59	7°57	0°49	20°41	24°56	28°20	24°28	22°56	5°38	15°58
F 24	4 10 47	1°25'45	18° 2	20° 5	17°28	29°42	7°51	0°51	20°38	24°56	28°21	24°R29	22°53	5°44	15°57
S 25	4 14 44	2°26'24	2Ω 3	21°28	18°37	0Ω24	7°44	0°53	20°36	24°56	28°22	24°29	22°50	5°51	15°55
S 26	4 18 40	3°27'03	15°56	22°49	19°46	1° 7	7°37	0°55	20°33	24°55	28°24	24°27	22°47	5°58	15°53
M27	4 22 37	4°27'44	29°37	24°10	20°55	1°50	7°31	0°58	20°31	24°55	28°25	24°23	22°44	6° 4	15°52
T 28	4 26 33	5°28'26	13II 5	25°29	22° 5	2°33	7°24	1° 0	20°29	24°55	28°26	24°18	22°41	6°11	15°50
W29	4 30 30	6°29'09	26°16	26°47	23°14	3°16	7°18	1° 2	20°26	24°54	28°28	24°10	22°37	6°18	15°49
T 30	4 34 26	7°29'54	9Ω 9	28°3	24Ω24	3Ω59	7Ω12	1Ω 5	20Ω24	24Ω54	28Ω29	24Ω 2	22Ω34	6Ω25	15Ω47

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
W 1	14s16	27n 9	4n14	17s 2	0s31	3n41	0n36	15s51	0n 3	13n43	1s25	12s55	1s44	17n51	0s19	3s 4	1s16	23s15	2s44	9n37	9n21	14n 4	7n58	1n30
T 2	14 35	28 16	4 50	17 36	0 38	3 21	0 41	16 4	0 3	13 41	1 25	12 55	1 44	17 50	0 19	3 4	1 16	23 15	2 44	9 37	9 20	14 1	7 57	1 29
F 3	14 54	27 51	5 10	18 8	0 44	3 0	0 46	16 17	0 2	13 38	1 25	12 55	1 44	17 50	0 19	3 4	1 16	23 14	2 44	9 36	9 19	13 58	7 56	1 29
S 4	15 13	26 4	5 16	18 40	0 51	2 39	0 50	16 30	0	2 13 36	1 25	12 55	1 44	17 49	0 19	3 5	1 16	23 14	2 44	9 35	9 17	13 55	7 55	1 29
S 5	15 32	23 6	5 7	19 10	0 57	2 18	0 55	16 42	0	1 13 34	1 25	12 55	1 44	17 48	0 19	3 5	1 16	23 14	2 44	9 35	9 16	13 52	7 54	1 29
M 6	15 50	19 13	4 45	19 40	1 3	1 56	0 59	16 55	0	0 13 31	1 24	12 55	1 44	17 48	0 19	3 6	1 16	23 14	2 44	9 35	9 15	13 49	7 53	1 29
T 7	16 8	14 37	4 11	20 9	1 10	1 35	1 4	17 7	0s 0	0 13 29	1 24	12 54	1 44	17 47	0 19	3 6	1 16	23 14	2 44	9 35	9 14	13 46	7 52	1 29
W 8	16 26	9 28	3 27	20 37	1 16	1 13	1 8	17 19	0	1 13 26	1 24	12 54	1 44	17 47	0 19	3 6	1 16	23 14	2 44	9 36	9 13	13 43	7 51	1 29
T 9	16 43	3 57	2 33	21 3	1 22	0 50	1 12	17 31	0	1 13 24	1 24	12 54	1 44	17 46	0 19	3 7	1 16	23 14	2 44	9 37	9 12	13 40	7 50	1 29
F 10	17 0	1s46	1 31	21 29	1 27	0 28	1 16	17 43	0	2 13 21	1 24	12 54	1 43	17 45	0 19	3 7	1 16	23 13	2 45	9 37	9 10	13 37	7 49	1 29
S 11	17 17	7 32	0 25	21 54	1 33	0 5	1 20	17 55	0	3 13 19	1 24	12 53	1 43	17 45	0 19	3 7	1 16	23 13	2 45	9 37	9 9	13 34	7 48	1 28
S 12	17 34	13 8	0s44	22 17	1 38	0s18	1 23	18 7	0	3 13 17	1 24	12 53	1 43	17 44	0 19	3 8	1 16	23 13	2 45	9 37	9 8	13 31	7 47	1 28
M13	17 50	18 18	1 52	22 40	1 44	0 41	1 27	18 18	0	4 13 14	1 24	12 52	1 43	17 43	0 19	3 8	1 16	23 13	2 45	9 37	9 7	13 28	7 46	1 28
T 14	18 6	22 43	2 55	23 1	1 49	1 4	1 30	18 30	0	4 13 12	1 23	12 52	1 43	17 43	0 19	3 8	1 16	23 13	2 45	9 36	9 6	13 25	7 45	1 28
W15	18 21	26 2	3 50	23 21	1 53	1 27	1 34	18 41	0	5 13 10	1 23	12 51	1 43	17 42	0 19	3 8	1 16	23 13	2 45	9 34	9 5	13 22	7 44	1 28
T 16	18 37	27 55	4 33	23 40	1 58	1 51	1 37	18 52	0	6 13 7	1 23	12 51	1 43	17 41	0 19	3 9	1 16	23 12	2 45	9 33	9 3	13 19	7 43	1 28
F 17	18 52	28 7	5 1	23 58	2 2	2 15	1 40	19 3	0	6 13 5	1 23	12 50	1 43	17 41	0 19	3 9	1 16	23 12	2 45	9 31	9 2	13 16	7 42	1 28
S 18	19 6	26 33	5 12	24 15	2 7	2 38	1 43	19 14	0	7 13 3	1 23	12 50	1 42	17 40	0 19	3 9	1 16	23 12	2 45	9 30	9 1	13 13	7 41	1 28
S 19	19 21	23 20	5 4	24 30	2 10	3 2	1 45	19 25	0	7 13 1	1 23	12 49	1 42	17 39	0 19	3 9	1 16	23 12	2 45	9 29	9 0	13 10	7 41	1 27
M20	19 35	18 44	4 38	24 45	2 14	3 26	1 48	19 35	0	8 12 58	1 22	12 48	1 42	17 39	0 19	3 10	1 16	23 12	2 45	9 28	8 59	13 7	7 40	1 27
T 21	19 48	13 6	3 55	24 57	2 17	3 50	1 51	19 45	0	9 12 56	1 22	12 48	1 42	17 38	0 19	3 10	1 16	23 11	2 45	9 28	8 58	13 4	7 39	1 27
W22	20 1	6 46	2 58	25 9	2 20	4 15	1 53	19 55	0	9 12 54	1 22	12 47	1 42	17 38	0 19	3 10	1 16	23 11	2 45	9 28	8 56	13 1	7 38	1 27
T 23	20 14	0 7	1 50	25 19	2 22	4 39	1 55	20 5	0	10 12 52	1 22	12 46	1 42	17 37	0 19	3 10	1 16	23 11	2 45	9 29	8 55	12 58	7 37	1 27
F 24	20 27	6n32	0 35	25 28	2 24	5 3	1 57	20 15	0	10 12 50	1 22	12 45	1 42	17 36	0 19	3 10	1 16	23 11	2 45	9 29	8 54	12 55	7 36	1 27
S 25	20 39	12 50																						

# SWISS EPHEMERIS for the year 2023

DECEMBER 2023

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Day	Sid.t	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	4 38 23	8♁30'40	21♁45	29♁17	25♁34	4♁42	7°R 6	1♁ 8	20°R22	24°R54	28♁30	23°R55	22°Y31	6♁31	15°R46	
S 2	4 42 20	9°31'28	4♁ 5	0♁28	26°44	5°25	7♁ 1	1°11	20♁19	24♁54	28°32	23°Y48	22°28	6°38	15°Y44	
S 3	4 46 16	10°32'17	16°10	1°36	27°54	6° 8	6°55	1°13	20°17	24°54	28°33	23°43	22°25	6°45	15°43	
M 4	4 50 13	11°33'07	28° 6	2°42	29° 5	6°51	6°50	1°16	20°15	24°53	28°34	23°39	22°22	6°51	15°42	
T 5	4 54 9	12°33'59	9♁57	3°44	0♁15	7°34	6°44	1°19	20°12	24°53	28°36	23°D38	22°18	6°58	15°41	
W 6	4 58 6	13°34'52	21°47	4°41	1°26	8°17	6°39	1°23	20°10	24°53	28°37	23°38	22°15	7° 5	15°39	
T 7	5 2 2	14°35'46	3♁42	5°34	2°36	9° 1	6°34	1°26	20° 8	24°D53	28°39	23°40	22°12	7°11	15°38	
F 8	5 5 59	15°36'42	15°48	6°21	3°47	9°44	6°30	1°29	20° 6	24°53	28°40	23°41	22° 9	7°18	15°37	
S 9	5 9 55	16°37'38	28° 8	7° 2	4°58	10°27	6°25	1°33	20° 4	24°53	28°42	23°R41	22° 6	7°25	15°36	
S 10	5 13 52	17°38'36	10♁47	7°37	6° 9	11°11	6°21	1°36	20° 1	24°54	28°43	23°39	22° 2	7°31	15°35	
M11	5 17 49	18°39'36	23°48	8° 3	7°21	11°54	6°17	1°40	19°59	24°54	28°45	23°35	21°59	7°38	15°34	
T 12	5 21 45	19°40'36	7♁12	8°21	8°32	12°38	6°13	1°43	19°57	24°54	28°47	23°29	21°56	7°45	15°33	
W13	5 25 42	20°41'37	20°57	8°R29	9°43	13°21	6° 9	1°47	19°55	24°54	28°48	23°20	21°53	7°51	15°33	
T 14	5 29 38	21°42'37	5♁ 0	8°27	10°55	14° 5	6° 5	1°51	19°53	24°54	28°50	23°10	21°50	7°58	15°32	
F 15	5 33 35	22°43'42	19°15	8°14	12° 7	14°49	6° 2	1°55	19°51	24°55	28°51	23° 0	21°47	8° 5	15°31	
S 16	5 37 31	23°44'45	3♁39	7°49	13°18	15°33	5°59	1°59	19°49	24°55	28°53	22°51	21°43	8°11	15°31	
S 17	5 41 28	24°45'49	18° 3	7°13	14°30	16°16	5°56	2° 3	19°47	24°55	28°55	22°44	21°40	8°18	15°30	
M18	5 45 24	25°46'53	2♁24	6°25	15°42	17° 0	5°53	2° 7	19°45	24°56	28°56	22°39	21°37	8°25	15°29	
T 19	5 49 21	26°47'58	16°38	5°27	16°54	17°44	5°50	2°12	19°44	24°56	28°58	22°37	21°34	8°32	15°29	
W20	5 53 18	27°49'02	0°Y43	4°19	18° 6	18°28	5°48	2°16	19°42	24°56	29° 0	22°D36	21°31	8°38	15°29	
T 21	5 57 14	28°50'07	14°38	3° 4	19°18	19°12	5°45	2°21	19°40	24°57	29° 2	22°37	21°28	8°45	15°28	
F 22	6 1 11	29°51'13	28°23	1°44	20°30	19°56	5°43	2°25	19°38	24°57	29° 3	22°R37	21°24	8°52	15°28	
S 23	6 5 7	0♁52'18	11♁59	0°22	21°43	20°40	5°42	2°30	19°37	24°58	29° 5	22°35	21°21	8°58	15°28	
S24	6 9 4	1°53'24	25°25	28♁59	22°55	21°24	5°40	2°34	19°35	24°59	29° 7	22°31	21°18	9° 5	15°27	
M25	6 13 0	2°54'30	8♁42	27°40	24° 8	22° 8	5°39	2°39	19°33	24°59	29° 9	22°24	21°15	9°12	15°27	
T 26	6 16 57	3°55'36	21°47	26°27	25°20	22°52	5°38	2°44	19°32	25° 0	29°10	22°14	21°12	9°18	15°27	
W27	6 20 53	4°56'43	4♁41	25°20	26°33	23°37	5°37	2°49	19°30	25° 1	29°12	22° 2	21° 8	9°25	15°D27	
T 28	6 24 50	5°57'50	17°21	24°23	27°45	24°21	5°36	2°54	19°29	25° 1	29°14	21°48	21° 5	9°32	15°27	
F 29	6 28 47	6°58'57	29°48	23°36	28°58	25° 5	5°35	2°59	19°27	25° 2	29°16	21°35	21° 2	9°38	15°27	
S 30	6 32 43	8° 0'05	12♁ 2	22°59	0♁11	25°50	5°35	3° 4	19°26	25° 3	29°18	21°22	20°59	9°45	15°27	
S 31	6 36 40	9♁ 1'13	24♁ 5	22♁33	1♁24	26♁34	5°D35	3♁ 9	19♁24	25♁ 4	29♁20	21°Y12	20°Y56	9♁52	15°Y28	

Day	☉		☽		♀		♁		♂		♂		♂		♂		♂		
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	21s43	26n45	5n 8	25s51	2s25	7s53	2n 9	21s19	0s15	12n37	1s20	12s39	1s41	17n32	0s19	3s11	1s15	23s 9	2s45
S 2	21 53	24 9	5 3	25 49	2 23	8 17	2 10	21 27	0 15	12 36	1 20	12 38	1 41	17 31	0 19	3 11	1 15	23 9	2 45
S 3	22 2	20 31	4 45	25 45	2 20	8 41	2 11	21 35	0 16	12 34	1 20	12 37	1 41	17 31	0 19	3 11	1 15	23 8	2 45
M 4	22 10	16 7	4 15	25 40	2 16	9 5	2 12	21 43	0 16	12 33	1 19	12 35	1 41	17 30	0 19	3 11	1 15	23 8	2 45
T 5	22 18	11 8	3 33	25 34	2 11	9 29	2 13	21 51	0 17	12 31	1 19	12 34	1 41	17 30	0 19	3 11	1 15	23 8	2 45
W 6	22 26	5 45	2 43	25 26	2 5	9 53	2 14	21 59	0 18	12 30	1 19	12 33	1 40	17 29	0 19	3 11	1 15	23 8	2 45
T 7	22 33	0 9	1 46	25 17	1 58	10 16	2 14	22 6	0 18	12 28	1 18	12 32	1 40	17 28	0 19	3 11	1 15	23 7	2 45
F 8	22 40	5s34	0 42	25 7	1 50	10 40	2 15	22 13	0 19	12 27	1 18	12 30	1 40	17 28	0 19	3 11	1 15	23 7	2 45
S 9	22 46	11 11	0s24	24 56	1 41	11 3	2 15	22 20	0 19	12 26	1 18	12 29	1 40	17 27	0 19	3 11	1 15	23 7	2 45
S 10	22 52	16 30	1 31	24 44	1 31	11 26	2 16	22 27	0 20	12 25	1 18	12 28	1 40	17 27	0 19	3 11	1 15	23 6	2 45
M11	22 57	21 13	2 34	24 30	1 19	11 49	2 16	22 33	0 21	12 24	1 17	12 26	1 40	17 26	0 19	3 11	1 15	23 6	2 45
T 12	23 2	24 59	3 31	24 16	1 6	12 12	2 16	22 40	0 21	12 23	1 17	12 25	1 40	17 26	0 19	3 10	1 15	23 6	2 45
W13	23 7	27 24	4 17	24 2	0 52	12 35	2 16	22 46	0 22	12 22	1 17	12 23	1 40	17 25	0 19	3 10	1 15	23 6	2 45
T 14	23 11	28 9	4 49	23 46	0 36	12 57	2 16	22 52	0 22	12 21	1 17	12 22	1 40	17 25	0 19	3 10	1 15	23 5	2 45
F 15	23 14	27 3	5 3	23 30	0 19	13 19	2 15	22 57	0 23	12 20	1 16	12 20	1 40	17 24	0 19	3 10	1 15	23 5	2 45
S 16	23 17	24 10	4 59	23 13	0 1	13 41	2 15	23 3	0 24	12 19	1 16	12 19	1 39	17 24	0 19	3 10	1 15	23 5	2 45
S 17	23 20	19 47	4 35	22 57	0n18	14 3	2 15	23 8	0 24	12 18	1 16	12 17	1 39	17 23	0 19	3 10	1 15	23 4	2 45
M18	23 22	14 16	3 54	22 39	0 38	14 24	2 14	23 13	0 25	12 18	1 15	12 16	1 39	17 23	0 19	3 10	1 15	23 4	2 45
T 19	23 24	8 2	2 59	22 22	0 58	14 45	2 13	23 18	0 25	12 17	1 15	12 14	1 39	17 22	0 19	3 9	1 15	23 4	2 45
W20	23 25	1 27	1 54	22 4	1 18	15 6	2 13	23 22	0 26	12 17	1 15	12 12	1 39	17 22	0 19	3 9	1 15	23 3	2 45
T 21	23 26	5n 7	0 42	21 47	1 37	15 26	2 12	23 26	0 27	12 16	1 14	12 11	1 39	17 21	0 19	3 9	1 15	23 3	2 45
F 22	23 26	11 23	0n31	21 30	1 55	15 46	2 11	23 30	0 27	12 16	1 14	12 9	1 39	17 21	0 19	3 9	1 15	23 3	2 46
S 23	23 26	17 2	1 41	21 14	2 12	16 6	2 10	23 34	0 28	12 15	1 14	12 7	1 39	17 20	0 19	3 8	1 15	23 2	2 46
S 24	23 25	21 47	2 45	20 59	2 27	16 25	2 9	23 38	0 28	12 15	1 14	12 5	1 39	17 20	0 19	3 8	1 15	23 2	2 46
M25	23 24	25 21	3 39	20 45	2 40	16 44	2 8	23 41	0 29	12 15	1 13	12 4	1 39	17 19	0 19	3 8	1 14	23 2	2 46
T 26	23 23	27 30	4 20	20 33	2 50	17 3	2 6	23 44	0 30	12 15	1 13	12 2	1 39	17 19	0 18	3 8	1 14	23 1	2 46
W27	23 21	28 8	4 47	20 24	2 58	17 21	2 5	23 47	0 30	12 15	1 13	12 0	1 38	17 19	0 18	3 7	1 14	23 1	2 46
T 28	23 18	27 16	5 0	20 16	3 3	17 39	2 3	23 50	0 31	12 15	1 12	11 58	1 38	17 18	0 18	3 7	1 14	23 1	2 46
F 29	23 15	25 2	4 58	20 11	3 6	17 57	2 2	23 52	0 31	12 15	1 12	11 56	1 38	17 18	0 18	3 7	1 14	23 0	2 46
S 30	23 12	21 41	4 42	20 8	3 7	18 14	2 0	23 54	0 32	12 15	1 12	11 54	1 38	17 17	0 18	3 6	1 14	23 0	2 46
S 31	23s 8	17n28	4n13	20s 8	3n 6	18s30	1n59	23s56	0s32	12n16	1s11	11s52	1s38	17n17	0s18	3s 6	1s14	23s 0	2s46

Julian Day Number = 2460279.5, Delta T = 77.27 sec  
 Ecliptic obliquity = 23°26'18, Nutation = - 0°00'07  
 Ayanamsha: Fagan/Bradley = 25°04'28, Lahiri = 24°11'28