

SWISS EPHEMERIS for the year 1709

JANUARY 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
T 1	6 41 46	10♁31'47	14♎24	18♁15	29♎24	15°R50	28♁11	27°R39	22°R10	22°R57	26°R28	22°R16	23♁17	2♁48	18♁41	
W 2	6 45 43	11°32'57	28°22	19°27	0♁36	15°E26	28°19	27♎34	22♁8	22°Y57	26♁27	22°D16	23°14	2°55	18°47	
T 3	6 49 39	12°34'06	11♁56	20°41	1°47	15° 2	28°26	27°30	22° 7	22°D57	26°26	22°R16	23°10	3° 1	18°52	
F 4	6 53 36	13°35'16	25° 8	21°56	2°59	14°38	28°33	27°25	22° 5	22°57	26°25	22♁16	23° 7	3° 8	18°58	
S 5	6 57 32	14°36'26	8♎ 1	23°13	4°11	14°14	28°40	27°20	22° 3	22°57	26°24	22°13	23° 4	3°15	19° 3	
S 6	7 1 29	15°37'36	20°39	24°32	5°23	13°50	28°47	27°16	22° 1	22°57	26°23	22° 8	23° 1	3°22	19° 9	
M 7	7 5 25	16°38'46	3♁ 4	25°52	6°35	13°26	28°54	27°11	21°59	22°57	26°22	22° 0	22°58	3°28	19°14	
T 8	7 9 22	17°39'56	15°19	27°13	7°47	13° 2	29° 1	27° 7	21°57	22°57	26°21	21°50	22°55	3°35	19°20	
W 9	7 13 18	18°41'06	27°26	28°35	8°59	12°39	29° 7	27° 2	21°55	22°58	26°20	21°38	22°51	3°42	19°25	
T 10	7 17 15	19°42'15	9♁27	29°58	10°11	12°16	29°13	26°58	21°53	22°58	26°19	21°25	22°48	3°48	19°31	
F 11	7 21 12	20°43'24	21°22	1♁22	11°24	11°53	29°20	26°53	21°51	22°58	26°18	21°12	22°45	3°55	19°37	
S 12	7 25 8	21°44'32	3♁14	2°47	12°36	11°30	29°26	26°49	21°49	22°58	26°16	21° 2	22°42	4° 2	19°42	
S 13	7 29 5	22°45'40	15° 3	4°12	13°48	11° 8	29°31	26°45	21°46	22°59	26°15	20°53	22°39	4° 8	19°48	
M14	7 33 1	23°46'47	26°52	5°39	15° 1	10°47	29°37	26°41	21°44	22°59	26°14	20°47	22°36	4°15	19°53	
T 15	7 36 58	24°47'54	8♁42	7° 6	16°13	10°26	29°43	26°37	21°42	22°59	26°13	20°44	22°32	4°22	19°59	
W16	7 40 54	25°48'59	20°39	8°34	17°26	10° 5	29°48	26°33	21°40	23° 0	26°12	20°D43	22°29	4°28	20° 4	
T 17	7 44 51	26°50'04	2°Y45	10° 3	18°39	9°45	29°53	26°29	21°37	23° 0	26°10	20°44	22°26	4°35	20°10	
F 18	7 48 47	27°51'07	15° 5	11°32	19°51	9°25	29°58	26°25	21°35	23° 1	26° 9	20°45	22°23	4°42	20°15	
S 19	7 52 44	28°52'10	27°44	13° 2	21° 4	9° 7	0♎ 3	26°21	21°33	23° 1	26° 8	20°R46	22°20	4°49	20°21	
S 20	7 56 41	29°53'12	10♁48	14°32	22°17	8°48	0° 8	26°17	21°30	23° 2	26° 6	20°45	22°16	4°55	20°26	
M21	8 0 37	0♁54'12	24°18	16° 4	23°30	8°31	0°13	26°14	21°28	23° 3	26° 5	20°42	22°13	5° 2	20°32	
T 22	8 4 34	1°55'12	8♎19	17°35	24°42	8°14	0°17	26°10	21°26	23° 3	26° 4	20°38	22°10	5° 9	20°37	
W23	8 8 30	2°56'10	22°48	19° 8	25°55	7°58	0°21	26° 7	21°23	23° 4	26° 3	20°31	22° 7	5°15	20°42	
T 24	8 12 27	3°57'08	7♁42	20°41	27° 8	7°42	0°25	26° 3	21°21	23° 5	26° 1	20°24	22° 4	5°22	20°48	
F 25	8 16 23	4°58'04	22°54	22°15	28°21	7°28	0°29	26° 0	21°18	23° 5	26° 0	20°17	22° 1	5°29	20°53	
S 26	8 20 20	5°58'59	8♎14	23°50	29°34	7°14	0°33	25°57	21°16	23° 6	25°58	20°11	21°57	5°35	20°59	
S 27	8 24 16	6°59'53	23°30	25°25	0♁47	7° 1	0°37	25°54	21°13	23° 7	25°57	20° 6	21°54	5°42	21° 4	
M28	8 28 13	8° 0'46	8♎31	27° 1	2° 0	6°48	0°40	25°51	21°11	23° 8	25°56	20° 4	21°51	5°49	21° 9	
T 29	8 32 10	9° 1'38	23°11	28°37	3°14	6°37	0°43	25°48	21° 8	23° 9	25°54	20°D 3	21°48	5°55	21°15	
W30	8 36 6	10° 2'30	7♁25	0♁14	4°27	6°26	0°46	25°45	21° 6	23°10	25°53	20° 4	21°45	6° 2	21°20	
T 31	8 40 3	11° 3'20	21♁11	1♁53	5♁40	6♁16	0♎49	25♎42	21♎ 3	23°Y10	25♎51	20♁ 5	21♁42	6♁ 9	21♁25	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	23s 4	6n47	0n42	21s35	1n22	17s50	2n16	26n24	3n54	9s41	1n15	22n24	1s 3	14n51	0n45	7n18
W 2	22 59	0 9	0s32	21 50	1 14	18 7	2 15	26 29	3 55	9 43	1 15	22 24	1 3	14 52	0 45	7 18
T 3	22 53	6s18	1 42	22 4	1 5	18 23	2 13	26 33	3 56	9 46	1 15	22 24	1 3	14 52	0 45	7 18
F 4	22 47	12 18	2 45	22 18	0 56	18 39	2 11	26 37	3 57	9 48	1 15	22 24	1 3	14 53	0 45	7 18
S 5	22 41	17 38	3 38	22 31	0 48	18 54	2 9	26 40	3 59	9 51	1 16	22 24	1 3	14 53	0 45	7 18
S 6	22 34	22 6	4 19	22 43	0 39	19 9	2 7	26 44	4 0	9 53	1 16	22 24	1 3	14 54	0 45	7 19
M 7	22 26	25 29	4 46	22 54	0 31	19 23	2 5	26 47	4 0	9 55	1 16	22 25	1 2	14 55	0 45	7 19
T 8	22 19	27 39	5 1 23	4 0	23 19	37 2	3 26	50 4	1 9	9 57	1 16	22 25	1 2	14 55	0 45	7 19
W 9	22 10	28 28	5 1 23	14 0	15 19	51 2	1 26	53 4	2 9	9 59	1 16	22 25	1 2	14 56	0 45	7 19
T 10	22 2 27	56 4	4 48	23 22	0 7	20 4	1 58	26 56	4 2	10 1	1 16	22 25	1 2	14 57	0 45	7 19
F 11	21 53	26 6	4 22	23 30	0s 1	20 16	1 56	26 59	4 3	10 3	1 17	22 25	1 2	14 57	0 45	7 19
S 12	21 43	23 7	3 45	23 36	0 9	20 28	1 54	27 1	4 3	10 5	1 17	22 25	1 2	14 58	0 45	7 19
S 13	21 33	19 12	2 59	23 41	0 17	20 39	1 51	27 3	4 3	10 7	1 17	22 25	1 2	14 59	0 45	7 20
M14	21 23	14 32	2 4	23 45	0 24	20 50	1 49	27 5	4 4	10 9	1 17	22 25	1 1	15 0	0 45	7 20
T 15	21 12	9 19	1 4	23 48	0 31	21 0	1 46	27 7	4 4	10 11	1 18	22 25	1 1	15 0	0 45	7 20
W16	21 1	3 43	0 23	50 0	38	21 10	1 44	27 9	4 4	10 13	1 18	22 25	1 1	15 1	0 45	7 20
T 17	20 50	2n 5	1n 4	23 51	0 45	21 19	1 41	27 10	4 3	10 14	1 18	22 25	1 1	15 2	0 45	7 20
F 18	20 38	7 54	2 7	23 50	0 51	21 27	1 38	27 11	4 3	10 16	1 18	22 25	1 1	15 3	0 45	7 21
S 19	20 25	13 34	3 6	23 48	0 58	21 35	1 36	27 12	4 3	10 17	1 18	22 25	1 1	15 3	0 45	7 21
S 20	20 13	18 50	3 56	23 44	1 4	21 43	1 33	27 13	4 2	10 19	1 19	22 25	1 0	15 4	0 45	7 21
M21	19 59	23 20	4 36	23 40	1 10	21 49	1 30	27 14	4 2	10 20	1 19	22 25	1 0	15 5	0 45	7 21
T 22	19 46	26 41	5 1 23	34 1	15 21	55 1	27 27	14 4	1 10	21 1	19 22	25 1	0 15	6 0 45	7 22	1 44
W23	19 32	28 24	5 8	23 26	1 21	22 1	1 24	27 15	4 1	10 23	1 19	22 25	1 0	15 7 0 45	7 22	1 44
T 24	19 18	28 9	4 54	23 18	1 26	22 6	1 21	27 15	4 0	10 24	1 19	22 26	1 0	15 7 0 45	7 22	1 44
F 25	19 3 25	48 4	20 23	8 1	31 22	10 1	18 27	15 3	59 10	25 1	20 22	26 1	0 15	8 0 45	7 23	1 44
S 26	18 48	21 34	3 27	22 56	1 35	22 13	1 15	27 15	3 58	10 26	1 20	22 26	0 59	15 9 0 45	7 23	1 44
S 27	18 33	15 54	2 19	22 43	1 39	22 16	1 12	27 15	3 58	10 27	1 20	22 26	0 59	15 10 0 45	7 23	1 44
M28	18 18	9 21	1 2	22 29	1 43	22 19	1 9	27 15	3 57	10 28	1 20	22 26	0 59	15 11 0 45	7 24	1 44
T 29	18 2	2 27	0s17	22 13	1 47	22 20	1 6	27 14	3 56	10 29	1 21	22 26	0 59	15 12 0 45	7 24	1 44
W30	17 46	4s22	1 33	21 56	1 50	22 21	1 3	27 14	3 55	10 30	1 21	22 26	0 59	15 12 0 45	7 24	1 44
T 31	17s29	10s46	2s41	21s37	1s54	22s22	1n 0	27n13	3n53	10s31	1n21	22n26	0s58	15n13	0n45	7n25

Julian Day Number = 2345259.5, Delta T = 8.90 sec
 Ecliptic obliquity = 23°28'46, Nutation = 0°00'03
 Ayanamsha: Fagan/Bradley = 20°40'41, Lahiri = 19°47'41 Greg. Calendar

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FEBRUARY 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓																																																																																																																																																																																																																																																																																																																																																																																																																																								
F 1	8 43 59	12 [♌] 4'09	4 [♋] 31	3 [♋] 31	6 [♋] 53	6°R 7	0 [♌] 52	25°R39	21°R 1	23°Y11	25°R50	20 [♋] 7	21 [♋] 38	6 [♌] 15	21 [♌] 30	S 2	8 47 56	13° 4'58	17°27	5°11	8° 6	5 [♌] 58	0°54	25 [♌] 37	20 [♌] 58	23°12	25 [♌] 48	20°R 7	21°35	6°22	21°36	S 3	8 51 52	14° 5'46	0 [♌] 2	6°51	9°20	5°50	0°57	25°34	20°55	23°13	25°47	20° 5	21°32	6°29	21°41	M 4	8 55 49	15° 6'33	12°22	8°32	10°33	5°44	0°59	25°32	20°53	23°15	25°45	20° 2	21°29	6°36	21°46	T 5	8 59 45	16° 7'18	24°30	10°14	11°46	5°38	1° 1	25°30	20°50	23°16	25°44	19°58	21°26	6°42	21°51	W 6	9 3 42	17° 8'03	6 [♌] 29	11°57	13° 0	5°32	1° 2	25°28	20°47	23°17	25°43	19°52	21°22	6°49	21°56	T 7	9 7 39	18° 8'46	18°23	13°40	14°13	5°28	1° 4	25°26	20°45	23°18	25°41	19°46	21°19	6°56	22° 2	F 8	9 11 35	19° 9'29	0 [♌] 13	15°25	15°27	5°24	1° 5	25°24	20°42	23°19	25°40	19°40	21°16	7° 2	22° 7	S 9	9 15 32	20°10'09	12° 2	17°10	16°40	5°21	1° 6	25°22	20°40	23°20	25°38	19°35	21°13	7° 9	22°12	S 10	9 19 28	21°10'49	23°53	18°56	17°54	5°19	1° 7	25°20	20°37	23°22	25°37	19°31	21°10	7°16	22°17	M11	9 23 25	22°11'26	5 [♌] 46	20°43	19° 7	5°18	1° 8	25°19	20°34	23°23	25°35	19°29	21° 7	7°22	22°22	T 12	9 27 21	23°12'03	17°43	22°30	20°20	5°D17	1° 9	25°17	20°32	23°24	25°34	19°D28	21° 3	7°29	22°27	W13	9 31 18	24°12'37	29°48	24°19	21°34	5°18	1° 9	25°16	20°29	23°25	25°32	19°28	21° 0	7°36	22°32	T 14	9 35 14	25°13'10	12°Y 2	26° 8	22°48	5°19	1°10	25°14	20°26	23°27	25°31	19°29	20°57	7°42	22°36	F 15	9 39 11	26°13'41	24°28	27°58	24° 1	5°20	1°R10	25°13	20°24	23°28	25°29	19°31	20°54	7°49	22°41	S 16	9 43 8	27°14'11	7 [♌] 11	29°49	25°15	5°23	1° 9	25°12	20°21	23°30	25°28	19°33	20°51	7°56	22°46	S 17	9 47 4	28°14'38	20°13	1 [♌] 41	26°28	5°26	1° 9	25°11	20°19	23°31	25°26	19°34	20°48	8° 2	22°51	M18	9 51 1	29°15'04	3 [♌] 37	3°33	27°42	5°30	1° 9	25°10	20°16	23°33	25°25	19°R34	20°44	8° 9	22°56	T 19	9 54 57	0 [♌] 15'28	17°26	5°26	28°55	5°34	1° 8	25°10	20°13	23°34	25°23	19°33	20°41	8°16	23° 0	W20	9 58 54	1°15'50	1 [♌] 39	7°19	0 [♌] 9	5°39	1° 7	25° 9	20°11	23°36	25°22	19°31	20°38	8°22	23° 5	T 21	10 2 50	2°16'09	16°15	9°13	1°23	5°45	1° 6	25° 8	20° 8	23°37	25°20	19°29	20°35	8°29	23°10	F 22	10 6 47	3°16'27	1 [♌] 10	11° 6	2°36	5°52	1° 5	25° 8	20° 6	23°39	25°19	19°27	20°32	8°36	23°14	S 23	10 10 43	4°16'43	16°15	13° 0	3°50	5°59	1° 3	25° 8	20° 3	23°40	25°17	19°25	20°28	8°42	23°19	M24	10 14 40	5°16'57	1 [♌] 23	14°54	5° 4	6° 7	1° 2	25° 8	20° 1	23°42	25°16	19°24	20°25	8°49	23°23	S 25	10 18 37	6°17'09	1 [♌] 24	16°47	6°17	6°15	1° 0	25°D 8	19°58	23°44	25°14	19°D23	20°22	8°56	23°28	T 26	10 22 33	7°17'19	1 [♌] 10	18°39	7°31	6°24	0°58	25° 8	19°56	23°45	25°13	19°24	20°19	9° 3	23°32	W27	10 26 30	8°17'28	15°33	20°30	8°45	6°34	0°56	25° 8	19°53	23°47	25°11	19°24	20°16	9° 9	23°36	T 28	10 30 26	9 [♌] 17'35	29°♁30	22 [♌] 20	9 [♌] 58	6 [♌] 44	0 [♌] 53	25 [♌] 8	19°♁51	23°Y49	25°♁10	19 [♌] 25	20 [♌] 13	9 [♌] 16	23 [♌] 41

Day	☉		☽		♀		♀		♂		♃		♄		♅		♆		♇		♈		♉		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓																																																																																																																																																																																																																																																																																																																																													
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F 1	17s12	16s28	3s38	21s17	1s56	22s21	0n57	27n12	3n52	10s31	1n21	22n26	0s58	15n14	0n45	7n25	1s44	23n32	11n19	3s55	3s19	22s17	15s19	6n31	S 2	16 55 21 15	4 22 20 55	1 59 22 20	0 54 27 11	3 51 10 32	1 21 22 26	0 58 15 15	0 45 7 26	1 44 23 33	11 19 3 55	3 21 22 15	15 18 6 32	S 3	16 38 24 57	4 53 20 32	2 1 22 19	0 51 27 11	3 50 10 33	1 22 22 26	0 58 15 16	0 45 7 26	1 44 23 34	11 19 3 56	3 22 22 13	15 17 6 32	M 4	16 20 27 25	5 9 20 8	2 2 22 16	0 47 27 10	3 49 10 33	1 22 22 27	0 58 15 17	0 45 7 27	1 44 23 34	11 19 3 57	3 23 22 10	15 16 6 32	T 5	16 2 28 32	5 10 19 41	2 4 22 13	0 44 27 9	3 47 10 34	1 22 22 27	0 58 15 17	0 45 7 27	1 44 23 35	11 19 3 59	3 24 22 8	15 15 6 32	W 6	15 44 28 17	4 58 19 14	2 4 22 10	0 41 27 7	3 46 10 34	1 22 22 27	0 57 15 18	0 45 7 27	1 43 23 36	11 20 4 1	3 26 22 6	15 14 6 32	T 7	15 25 26 44	4 34 18 45	2 5 22 5	0 38 27 6	3 45 10 34	1 23 22 27	0 57 15 19	0 45 7 28	1 43 23 36	11 20 4 4	3 27 22 3	15 13 6 33	F 8	15 6 24 0	3 57 18 14	2 5 22 1	0 35 27 5	3 43 10 35	1 23 22 27	0 57 15 20	0 45 7 28	1 43 23 37	11 20 4 6	3 28 22 1	15 12 6 33	S 9	14 47 20 16	3 11 17 42	2 5 21 55	0 32 27 4	3 42 10 35	1 23 22 27	0 57 15 21	0 45 7 29	1 43 23 37	11 20 4 8	3 29 21 59	15 11 6 33	S 10	14 28 15 43	2 16 17 8	2 4 21 49	0 28 27 2	3 40 10 35	1 23 22 27	0 57 15 22	0 45 7 29	1 43 23 38	11 20 4 9	3 31 21 56	15 10 6 33	M11	14 8 10 34	1 15 16 33	2 3 21 42	0 25 27 1	3 39 10 35	1 23 22 27	0 56 15 23	0 45 7 30	1 43 23 39	11 20 4 10	3 32 21 54	15 9 6 34	T 12	13 48 5 1	0 10 15 56	2 1 21 34	0 22 27 0	3 37 10 35	1 24 22 28	0 56 15 23	0 45 7 30	1 43 23 39	11 20 4 11	3 33 21 52	15 8 6 34	W13	13 28 0n47	0n57	15 18 1 58	21 26 0 19	26 58 3 36	10 35 1 24	22 28 0 56	15 24 0 45	7 31 1 43	23 40 11 20	4 11 3 34	21 49 15 7	6 34	T 14	13 8 6 37	2 1 14 38	1 56 21 17	0 16 26 57	3 34 10 35	1 24 22 28	0 56 15 25	0 45 7 32	1 43 23 41	11 20 4 10	3 36 21 47	15 6 6 34	F 15	12 48 12 18	3 1 13 57	1 52 21 8	0 13 26 55	3 33 10 35	1 24 22 28	0 56 15 26	0 45 7 32	1 43 23 41	11 20 4 9	3 37 21 45	15 5 6 35	S 16	12 27 17 36	3 54 13 15	1 48 20 58	0 10 26 53	3 31 10 34	1 25 22 28	0 55 15 27	0 45 7 33	1 43 23 42	11 21 4 9	3 38 21 42	15 4 6 35	S 17	12 6 22 15	4 35 12 31	1 44 20 47	0 7 26 52	3 30 10 34	1 25 22 28	0 55 15 28	0 45 7 33	1 43 23 42	11 21 4 8	3 39 21 40	15 2 6 35	M18	11 45 25 53	5 4 11 46	1 39 20 36	0 4 26 50	3 28 10 34	1 25 22 28	0 55 15 28	0 45 7 34	1 43 23 43	11 21 4 8	3 41 21 37	15 1 6 36	T 19	11 24 28 7	5 15 10 59	1 33 20 24	0 0 26 48	3 27 10 33	1 25 22 29	0 55 15 29	0 45 7 34	1 43 23 43	11 21 4 9	3 42 21 35	15 0 6 36	W20	11 3 28 37	5 9 10 11	1 27 20 12	0s 3 26 46	3 25 10 33	1 25 22 29	0 55 15 30	0 45 7 35	1 43 23 44	11 21 4 9	3 43 21 33	14 59 6 36	T 21	10 41 27 9	4 42 9 22	1 20 19 59	0 6 26 45	3 24 10 32	1 26 22 29	0 54 15 31	0 45 7 36	1 43 23 45	11 21 4 10	3 44 21 30	14 58 6 37	F 22	10 19 23 46	3 56 8 32	1 13 19 45	0 8 26 43	3 22 10 32	1 26 22 29	0 54 15 32	0 45 7 36	1 43 23 45	11 21 4 11	3 46 21 28	14 57 6 37	S 23	9 57 18 45	2 53 7 41	1 5 19 31	0 11 26 41	3 20 10 31	1 26 22 29	0 54 15 32	0 45 7 37	1 43 23 46	11 21 4 12	3 47 21 25	14 56 6 37	S 24	9 35 12 32	1 38 6 49	0 56 19 16	0 14 26 39	3 19 10 30	1 26 22 30	0 54 15 33	0 45 7 37	1 43 23 46	11 21 4 12	3 48 21 23	14 55 6 38	M25	9 13 5 38	0 17 5 57	0 47 19 1	0 17 26 37	3 17 10 29	1 27 22 30	0 54 15 34	0 45 7 38	1 43 23 47	11 21 4 12	3 49 21 21	14 54 6 38	T 26	8 51 1s27	1s 5 4	0 37 18 45	0 20 26 35	3 16 10 28	1 27 22 30	0 54 15 35	0 45 7 39	1 43 23 47	11 21 4 12	3 51 21 18	14 53 6 38	W27	8 28 8 17	2 20 4 11	0 26 18 28	0 23 26 33	3 14 10 27	1 27 22 30	0 53 15 36	0 45 7 39	1 43 23 48	11 21 4 12	3 52 21 16	14 52 6 39	T 28	8s 6 14s30	3s25 3s17	0s15 18s11	0s26 26n31	3n13 10s26	1n27 22n30	0s53 15n36	0n45 7n40	1s42 23n48	11n21 4s12	3s53 21s13	14s51 6n39

Julian Day Number = 2345290.5, Delta T = 8.90 sec
 Ecliptic obliquity = 23°28'47", Nutation = 0°00'04"
 Ayanamsha: Fagan/Bradley = 20°40'46", Lahiri = 19°47'46"Greg. Calendar

SWISS EPHEMERIS for the year 1709

MARCH 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♄	♃	♅	♆	♁	♁	♁	♁	♁
F 1	10 34 23	10♌1740	13♍ 0	24♌ 7	11♌12	6♌55	0°R51	25♐ 9	19°R48	23♑50	25°R 8	19♌26	20♌ 9	9♌23	23♌45
S 2	10 38 19	11°1744	26° 4	25°53	12°26	7° 6	0♍48	25° 9	19♌46	23°52	25♌ 7	19°27	20° 6	9°29	23°49
S 3	10 42 16	12°1747	8♌46	27°36	13°40	7°18	0°45	25°10	19°44	23°54	25° 5	19°R27	20° 3	9°36	23°53
M 4	10 46 12	13°1747	21° 8	29°15	14°53	7°30	0°42	25°10	19°41	23°56	25° 4	19°27	20° 0	9°43	23°57
T 5	10 50 9	14°1747	3♌15	0♑51	16° 7	7°43	0°39	25°11	19°39	23°58	25° 3	19°27	19°57	9°49	24° 1
W 6	10 54 6	15°1744	15°12	2°22	17°21	7°56	0°35	25°12	19°37	23°59	25° 1	19°26	19°53	9°56	24° 5
T 7	10 58 2	16°1740	27° 3	3°48	18°35	8°10	0°32	25°13	19°34	24° 1	25° 0	19°26	19°50	10° 3	24° 9
F 8	11 1 59	17°1734	8♌51	5° 9	19°48	8°25	0°28	25°14	19°32	24° 3	24°58	19°25	19°47	10° 9	24°13
S 9	11 5 55	18°1726	20°41	6°24	21° 2	8°39	0°24	25°16	19°30	24° 5	24°57	19°25	19°44	10°16	24°17
S 10	11 9 52	19°1716	2♌34	7°32	22°16	8°55	0°20	25°17	19°28	24° 7	24°56	19°D25	19°41	10°23	24°21
M11	11 13 48	20°1704	14°35	8°34	23°30	9°10	0°15	25°19	19°26	24° 9	24°54	19°R25	19°38	10°29	24°24
T 12	11 17 45	21°16°50	26°43	9°29	24°44	9°27	0°11	25°20	19°23	24°11	24°53	19°25	19°34	10°36	24°28
W13	11 21 41	22°16°35	9♑ 2	10°16	25°57	9°43	0° 6	25°22	19°21	24°13	24°52	19°25	19°31	10°43	24°32
T 14	11 25 38	23°16°17	21° 31	10°55	27°11	10° 0	0° 2	25°24	19°19	24°15	24°50	19°25	19°28	10°49	24°35
F 15	11 29 35	24°15°57	4♌14	11°26	28°25	10°18	29♑57	25°26	19°17	24°17	24°49	19°24	19°25	10°56	24°39
S 16	11 33 31	25°15°35	17°11	11°49	29°39	10°36	29°51	25°28	19°15	24°19	24°48	19°23	19°22	11° 3	24°42
S 17	11 37 28	26°15°10	0♐22	12° 4	0♌53	10°54	29°46	25°30	19°13	24°21	24°47	19°23	19°19	11° 9	24°46
M18	11 41 24	27°14°44	13°50	12°R11	2° 6	11°13	29°41	25°32	19°11	24°23	24°45	19°22	19°15	11°16	24°49
T 19	11 45 21	28°14°15	27°35	12°10	3°20	11°32	29°35	25°35	19°10	24°25	24°44	19°D22	19°12	11°23	24°52
W20	11 49 17	29°13°44	11♌37	12° 1	4°34	11°51	29°30	25°37	19° 8	24°27	24°43	19°22	19° 9	11°29	24°55
T 21	11 53 14	0♑13°10	25°55	11°45	5°48	12°11	29°24	25°40	19° 6	24°29	24°42	19°23	19° 6	11°36	24°58
F 22	11 57 10	1°12°34	10♌26	11°22	7° 2	12°31	29°18	25°42	19° 4	24°31	24°41	19°24	19° 3	11°43	25° 1
S 23	12 1 7	2°11°56	25° 7	10°52	8°15	12°52	29°12	25°45	19° 3	24°33	24°39	19°25	18°59	11°49	25° 4
S 24	12 5 4	3°11°15	9♑52	10°17	9°29	13°13	29° 6	25°48	19° 1	24°35	24°38	19°25	18°56	11°56	25° 7
M25	12 9 0	4°10°32	24°34	9°37	10°43	13°34	29° 0	25°51	18°59	24°38	24°37	19°R25	18°53	12° 3	25°10
T 26	12 12 57	5° 9°47	9♌ 7	8°54	11°57	13°55	28°53	25°54	18°58	24°40	24°36	19°25	18°50	12° 9	25°13
W27	12 16 53	6° 9°00	23°25	8° 7	13°11	14°17	28°47	25°57	18°56	24°42	24°35	19°23	18°47	12°16	25°16
T 28	12 20 50	7° 8°12	7♍22	7°18	14°24	14°39	28°40	26° 1	18°55	24°44	24°34	19°21	18°44	12°23	25°18
F 29	12 24 46	8° 7°21	20°56	6°29	15°38	15° 2	28°34	26° 4	18°53	24°46	24°33	19°18	18°40	12°29	25°21
S 30	12 28 43	9° 6°28	4♌ 6	5°39	16°52	15°24	28°27	26° 8	18°52	24°48	24°32	19°16	18°37	12°36	25°24
S 31	12 32 39	10♑ 5°34	16♌52	4♑51	18♌ 6	15♌47	28♑20	26♐11	18♌50	24♑51	24♌31	19♌13	18♌34	12♌43	25♌26

Day	☉			☽			♀			♁			♂			♄			♃			♅			♆			♁			♁			♁			♁				
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F 1	7s43	19s49	4s15	2s24	0s 4	17s54	0s28	26n29	3n11	10s25	1n27	22n31	0s53	15n37	0n45	7n41	1s42	23n49	11n21	4s11	3s54	21s11	14s50	6n39																	
S 2	7 20 24	1 4 51	1 31	0n 8	17 36	0 31	26 27	3 10	10 24	1 28	22 31	0 53	15 38	0 45	7 41	1 42	23 49	11 21	4 11	3 56	21 8	14 49	6 40																		
S 3	6 58 26	56 5 12	0 38	0 21	17 17	0 34	26 25	3 8	10 23	1 28	22 31	0 53	15 39	0 45	7 42	1 42	23 50	11 21	4 11	3 57	21 6	14 48	6 40																		
M 4	6 35 28	27 5 17	0n13	0 34	16 58	0 36	26 22	3 7	10 22	1 28	22 31	0 52	15 39	0 45	7 43	1 42	23 50	11 21	4 11	3 58	21 3	14 47	6 40																		
T 5	6 11 28	34 5 8	1 3	0 47	16 39	0 39	26 20	3 5	10 20	1 28	22 31	0 52	15 40	0 45	7 44	1 42	23 51	11 21	4 11	3 59	21 1	14 45	6 41																		
W 6	5 48 27	21 4 46	1 52	1 0	16 19	0 41	26 18	3 4	10 19	1 28	22 32	0 52	15 41	0 45	7 44	1 42	23 51	11 21	4 11	4 1	20 58	14 44	6 41																		
T 7	5 25 24	54 4 12	2 39	1 14	15 58	0 44	26 15	3 2	10 18	1 28	22 32	0 52	15 41	0 45	7 45	1 42	23 52	11 21	4 11	4 2	20 56	14 43	6 42																		
F 8	5 2 21	24 3 27	3 23	1 27	15 38	0 46	26 13	3 1	10 16	1 29	22 32	0 52	15 42	0 45	7 46	1 42	23 52	11 21	4 12	4 3	20 54	14 42	6 42																		
S 9	4 38 17	2 2 33	4 5	1 41	15 16	0 48	26 11	2 59	10 15	1 29	22 32	0 51	15 43	0 45	7 46	1 42	23 52	11 21	4 12	4 4	20 51	14 41	6 42																		
S 10	4 15 12	0 1 32	4 44	1 54	14 55	0 51	26 8	2 58	10 13	1 29	22 33	0 51	15 43	0 45	7 47	1 42	23 53	11 21	4 12	4 6	20 49	14 40	6 43																		
M11	3 51 6	30 0 27	5 21	2 7	14 33	0 53	26 6	2 56	10 11	1 29	22 33	0 51	15 44	0 45	7 48	1 42	23 53	11 20	4 12	4 7	20 46	14 39	6 43																		
T 12	3 28 0	41 0n40	5 54	2 19	14 10	0 55	26 3	2 55	10 10	1 29	22 33	0 51	15 45	0 45	7 49	1 42	23 54	11 20	4 12	4 8	20 44	14 38	6 44																		
W13	3 4 5n13	1 47	6 23	2 31	13 47	0 57	26 0	2 53	10 8	1 29	22 33	0 51	15 45	0 45	7 49	1 42	23 54	11 20	4 12	4 9	20 41	14 37	6 44																		
T 14	2 41 11	1 2 49	6 49	2 42	13 24	0 59	25 58	2 52	10 6	1 30	22 34	0 50	15 46	0 45	7 50	1 42	23 54	11 20	4 12	4 11	20 39	14 36	6 45																		
F 15	2 17 16	28 3 44	7 10	2 52	13 0	1 1	25 55	2 51	10 4	1 30	22 34	0 50	15 47	0 45	7 51	1 42	23 55	11 20	4 12	4 12	20 36	14 35	6 45																		
S 16	1 53 21	17 4 29	7 28	3 1	12 36	1 3	25 52	2 49	10 2	1 30	22 34	0 50	15 47	0 45	7 52	1 42	23 55	11 20	4 12	4 13	20 33	14 34	6 46																		
S 17	1 30 25	9 5 0	7 41	3 9	12 12	1 5	25 49	2 48	10 0	1 30	22 34	0 50	15 48	0 45	7 52	1 42	23 56	11 20	4 13	4 14	20 31	14 33	6 46																		
M18	1 6 27	43 5 16	7 50	3 16	11 47	1 7	25 46	2 46	9 58	1 30	22 35	0 50	15 48	0 45	7 53	1 42	23 56	11 20	4 13	4 16	20 28	14 32	6 47																		
T 19	0 42 28	41 5 14	7 54	3 21	11 22	1 9	25 43	2 45	9 56	1 30	22 35	0 50	15 49	0 45	7 54	1 42	23 56	11 20	4 13	4 17	20 26	14 31	6 47																		
W20	0 18 27	51 4 54	7 54	3 25	10 57	1 10	25 40	2 44	9 54	1 30	22 35	0 49	15 50	0 45	7 55	1 42	23 56	11 20	4 13	4 18	20 23	14 30	6 47																		
T 21	0n 5 25	10 4 15	7 50	3 28	10 31	1 12	25 37	2 42	9 52	1 31	22 35	0 49	15 50	0 45	7 56	1 42	23 57	11 19	4 13	4 19	20 21	14 29	6 48																		
F 22	0 29 20	51 3 20	7 42	3 28	10 5	1 14	25 33	2 41	9 50	1 31	22 36	0 49	15 51	0 45	7 56	1 42	23 57	11 19	4 12	4 21	20 18	14 28	6 48																		
S 23	0 53 15	13 2 11	7 29	3 27	9 39	1 15	25 30	2 40	9 48	1 31	22 36	0 49	15 51	0 45	7 57	1 42	23 57	11 19	4 12	4 22	20 16	14 27	6 49																		
S 24	1 16 8	42 0 53	7 12	3 24	9 13	1 17	25 27	2 38	9 45	1 31	22 36	0 49	15 52	0 45	7 58	1 42	23 58	11 19	4 12	4 23	20 13	14 26	6 49																		
M25	1 40 1	44 0s28	6 52	3 20	8 46	1 18	25 23	2 37	9 43	1 31	22 36	0 48	15 52	0 45	7 59	1 42	23 58	11 19	4 12	4 24	20 11	14 25	6 50																		
T 26	2 3 5s15	1 47	6 29	3 13	8 19	1 19	25 20	2 36	9 41	1 31	22 37	0 48	15 53	0 45	8 0	1 42	23 58	11 19	4 12	4 26	20 8	14 24	6 50																		
W27	2 27 11	51 2 57	6 3	3 5	7 52	1 21	25 16	2 34	9 38	1 31	22 37	0 48	15 53	0 45	8 0	1 42	23 58	11 19	4 12	4 27	20 5	14 23	6 51																		
T 28	2 50 17	41 3 55	5 35	2 55	7 25	1 22	25 12	2 3																																	

SWISS EPHEMERIS for the year 1709

APRIL 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁
M 1	12 36 36	11°Y 4'38	29°A 19	4°R 4	19°H 19	16°E 11	28°R 13	26°I 15	18°R 49	24°Y 53	24°R 30	19°R 12	18°H 31	12°A 49	25°E 28
T 2	12 40 33	12° 3'40	11°E 29	3°Y 20	20°33	16°34	28°E 6	26°19	18°U 48	24°55	24°U 29	19°D 11	18°28	12°56	25°31
W 3	12 44 29	13° 2'40	23°27	2°39	21°47	16°58	27°59	26°22	18°47	24°57	24°28	19°H 12	18°25	13° 3	25°33
T 4	12 48 26	14° 1'38	5°A 18	2° 3	23° 1	17°22	27°51	26°26	18°45	25° 0	24°27	19°13	18°21	13° 9	25°35
F 5	12 52 22	15° 0'35	17° 6	1°31	24°15	17°46	27°44	26°30	18°44	25° 2	24°26	19°15	18°18	13°16	25°37
S 6	12 56 19	15°59'30	28°58	1° 3	25°28	18°11	27°37	26°35	18°43	25° 4	24°26	19°16	18°15	13°23	25°39
S 7	13 0 15	16°58'23	10°H 56	0°41	26°42	18°36	27°29	26°39	18°42	25° 6	24°25	19°18	18°12	13°29	25°41
M 8	13 4 12	17°57'14	23° 3	0°23	27°56	19° 1	27°22	26°43	18°41	25° 9	24°24	19°R 18	18° 9	13°36	25°43
T 9	13 8 8	18°56'03	5°Y 24	0°12	29°10	19°26	27°15	26°48	18°40	25°11	24°23	19°17	18° 5	13°43	25°45
W10	13 12 5	19°54'50	17°58	0° 5	0°Y 24	19°52	27° 7	26°52	18°39	25°13	24°23	19°14	18° 2	13°49	25°47
T 11	13 16 1	20°53'35	0°B 48	0°D 4	1°37	20°17	26°59	26°57	18°39	25°15	24°22	19°10	17°59	13°56	25°48
F 12	13 19 58	21°52'19	13°53	0° 8	2°51	20°43	26°52	27° 1	18°38	25°18	24°21	19° 5	17°56	14° 3	25°50
S 13	13 23 55	22°51'00	27°13	0°17	4° 5	21°10	26°44	27° 6	18°37	25°20	24°20	19° 0	17°53	14° 9	25°51
S 14	13 27 51	23°49'39	10°I 45	0°31	5°19	21°36	26°37	27°11	18°36	25°22	24°20	18°54	17°50	14°16	25°53
M15	13 31 48	24°48'16	24°28	0°49	6°32	22° 3	26°29	27°16	18°36	25°24	24°19	18°50	17°46	14°23	25°54
T 16	13 35 44	25°46'51	8°E 22	1°13	7°46	22°29	26°21	27°21	18°35	25°27	24°19	18°47	17°43	14°30	25°55
W17	13 39 41	26°45'24	22°23	1°40	9° 0	22°56	26°13	27°26	18°35	25°29	24°18	18°D 46	17°40	14°36	25°57
T 18	13 43 37	27°43'54	6°U 32	2°12	10°14	23°24	26° 6	27°31	18°34	25°31	24°18	18°46	17°37	14°43	25°58
F 19	13 47 34	28°42'22	20°45	2°48	11°27	23°51	25°58	27°36	18°34	25°33	24°17	18°47	17°34	14°50	25°59
S 20	13 51 30	29°40'48	5°P 3	3°28	12°41	24°19	25°50	27°41	18°34	25°36	24°17	18°48	17°31	14°56	26° 0
S 21	13 55 27	0°B 39'12	19°21	4°12	13°55	24°46	25°43	27°47	18°33	25°38	24°16	18°R 49	17°27	15° 3	26° 1
M22	13 59 24	1°37'33	3°A 36	4°59	15° 8	25°14	25°35	27°52	18°33	25°40	24°16	18°48	17°24	15°10	26° 2
T 23	14 3 20	2°35'53	17°46	5°49	16°22	25°43	25°28	27°58	18°33	25°42	24°15	18°45	17°21	15°16	26° 2
W24	14 7 17	3°34'10	1°M 44	6°43	17°36	26°11	25°20	28° 3	18°33	25°45	24°15	18°40	17°18	15°23	26° 3
T 25	14 11 13	4°32'26	15°28	7°40	18°49	26°39	25°13	28° 9	18°33	25°47	24°15	18°34	17°15	15°30	26° 4
F 26	14 15 10	5°30'41	28°54	8°39	20° 3	27° 8	25° 5	28°14	18°D 33	25°49	24°14	18°26	17°11	15°36	26° 4
S 27	14 19 6	6°28'53	12°A 0	9°42	21°17	27°37	24°58	28°20	18°33	25°51	24°14	18°18	17° 8	15°43	26° 5
S 28	14 23 3	7°27'04	24°45	10°47	22°30	28° 6	24°50	28°26	18°33	25°54	24°14	18°10	17° 5	15°50	26° 5
M29	14 26 59	8°25'14	7°E 12	11°56	23°44	28°35	24°43	28°32	18°33	25°56	24°14	18° 4	17° 2	15°56	26° 5
T 30	14 30 56	9°23'22	19°E 23	13°Y 6	24°Y 58	29°E 4	24°E 36	28°I 38	18°U 33	25°Y 58	24°U 13	18°H 0	16°H 59	16°A 3	26°E 6

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	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
M 1	4n23	28s39	5s10	3n31	2n 4	5s33	1s26	24n57	2n28	9s26	1n32	22n38	0s47	15n55	0n45	8n 4	1s42	23n59	11n18	4s17	4s33	19s52	14s18	6n53
T 2	4 47	27 50	4 52	2 59	1 49	5 5	1 27	24 53	2 27	9 23	1 32	22 39	0 47	15 55	0 45	8 5	1 42	24 0	11 18	4 17	4 34	19 50	14 17	6 54
W 3	5 10	25 43	4 21	2 29	1 33	4 36	1 28	24 48	2 25	9 21	1 32	22 39	0 47	15 56	0 45	8 6	1 42	24 0	11 18	4 17	4 36	19 47	14 16	6 55
T 4	5 32	22 31	3 39	1 59	1 17	4 8	1 28	24 44	2 24	9 18	1 32	22 39	0 47	15 56	0 45	8 7	1 42	24 0	11 17	4 16	4 37	19 45	14 15	6 55
F 5	5 55	18 24	2 48	1 32	1 1	3 39	1 29	24 40	2 23	9 15	1 32	22 40	0 47	15 56	0 45	8 8	1 42	24 0	11 17	4 16	4 38	19 42	14 15	6 56
S 6	6 18	13 34	1 49	1 6	0 44	3 10	1 30	24 35	2 22	9 13	1 32	22 40	0 46	15 57	0 45	8 9	1 42	24 0	11 17	4 15	4 39	19 39	14 14	6 56
S 7	6 41	8 11	0 46	0 42	0 28	2 42	1 30	24 31	2 21	9 10	1 32	22 40	0 46	15 57	0 45	8 9	1 42	24 0	11 17	4 15	4 40	19 37	14 13	6 57
M 8	7 3	2 27	0n21	0 21	0 12	2 13	1 31	24 26	2 19	9 7	1 32	22 40	0 46	15 57	0 45	8 10	1 42	24 0	11 17	4 15	4 42	19 34	14 12	6 57
T 9	7 26	3n29	1 27	0 2	0s 3	1 43	1 31	24 21	2 18	9 5	1 32	22 41	0 46	15 58	0 44	8 11	1 42	24 0	11 16	4 15	4 43	19 31	14 11	6 58
W10	7 48	9 23	2 31	0s15	0 18	1 14	1 31	24 16	2 17	9 2	1 32	22 41	0 46	15 58	0 44	8 12	1 42	24 0	11 16	4 16	4 44	19 29	14 10	6 58
T 11	8 10	15 1	3 28	0 29	0 33	0 45	1 32	24 11	2 16	8 59	1 32	22 41	0 46	15 58	0 44	8 13	1 42	24 0	11 16	4 18	4 45	19 26	14 9	6 59
F 12	8 32	20 5	4 15	0 40	0 47	0 16	1 32	24 6	2 15	8 57	1 32	22 41	0 45	15 58	0 44	8 13	1 42	24 0	11 16	4 20	4 47	19 23	14 9	6 59
S 13	8 54	24 15	4 49	0 48	1 0	0n13	1 32	24 1	2 14	8 54	1 32	22 42	0 45	15 58	0 44	8 14	1 42	24 1	11 16	4 22	4 48	19 21	14 8	7 0
S 14	9 16	27 11	5 8	0 54	1 13	0 42	1 32	23 56	2 13	8 51	1 32	22 42	0 45	15 59	0 44	8 15	1 42	24 1	11 15	4 24	4 49	19 18	14 7	7 1
M15	9 37	28 31	5 10	0 58	1 25	1 12	1 32	23 50	2 11	8 48	1 32	22 42	0 45	15 59	0 44	8 16	1 42	24 1	11 15	4 26	4 50	19 15	14 6	7 1
T 16	9 59	28 6	4 53	0 59	1 36	1 41	1 32	23 45	2 10	8 46	1 32	22 42	0 45	15 59	0 44	8 17	1 42	24 1	11 15	4 27	4 52	19 13	14 5	7 2
W17	10 20	25 53	4 19	0 58	1 46	2 10	1 32	23 39	2 9	8 43	1 32	22 43	0 45	15 59	0 44	8 18	1 42	24 1	11 15	4 27	4 53	19 10	14 5	7 2
T 18	10 41	22 3	3 30	0 54	1 56	2 39	1 31	23 33	2 8	8 40	1 32	22 43	0 44	15 59	0 44	8 18	1 42	24 0	11 14	4 27	4 54	19 7	14 4	7 3
F 19	11 2	16 55	2 27	0 48	2 5	3 9	1 31	23 27	2 7	8 37	1 32	22 43	0 44	15 59	0 44	8 19	1 42	24 0	11 14	4 27	4 55	19 5	14 3	7 3
S 20	11 23	10 50	1 14	0 40	2 13	3 38	1 31	23 21	2 6	8 35	1 32	22 43	0 44	15 59	0 44	8 20	1 42	24 0	11 14	4 26	4 57	19 2	14 2	7 4
S 21	11 43	4 11	0s 3	0 29	2 21	4 7	1 30	23 15	2 5	8 32	1 32	22 44	0 44	15 59	0 44	8 21	1 42	24 0	11 14	4 26	4 58	18 59	14 2	7 4
M22	12 4	2s39	1 19	0 17	2 28	4 36	1 30	23 9	2 4	8 29	1 32	22 44	0 44	15 59	0 44	8 22	1 42	24 0	11 14	4 26	4 59	18 57	14 1	7 5
T 23	12 24	9 18	2 30	0 2	2 34	5 4	1 29	23 3	2 3	8 27	1 32	22 44	0 44	15 59	0 44	8 22	1 42	24 0	11 13	4 27	5 0	18 54	14 0	7 6
W24	12 44	15 24	3 31	0n14	2 39	5 33	1 29	22 57	2 2	8 24	1 31	22 44	0 43	15 59	0 44	8 23	1 42	24 0	11 13	4 29	5 2	18 51	14 0	7 6
T 25	13 3	20 37	4 18	0 32	2 44	6 2	1 28	22 50	2 1	8 21	1 31	22 45	0 43	15 59	0 44	8 24	1 42	24 0	11 13	4 32	5 3	18 48	13 59	7 7
F 26	13 23	24 40	4 50	0 52	2 48	6 30	1 27	22 43	2 0	8 19	1 31	22 45	0 43	15 59	0 44	8 25	1 42	24 0	11 13	4 35	5 4	18 46	13 58	7 7
S 27	13 42	27 19	5 6	1 13	2 51	6 59	1 26	22 37	1 59	8 16	1 31	22 45	0 43	15 59	0 44	8 26	1 42	24 0	11 12	4 38	5 5	18 43	13 58	7 8
S 28	14 1	28 28	5 5	1 36	2 54	7 27	1 25	22 30	1 58	8 13	1 31	22 45	0 43	15 59	0 44	8 26	1 42	24 0	11 12					

SWISS EPHEMERIS for the year 1709

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W 1	14 34 53	10♁21'28	1♃22	14♃19	26♃12	29♁33	24°R29	28♁44	18♁33	26♃0	24°R13	17°R58	16♃56	16♁10	26♁6						
T 2	14 38 49	11°19'33	13°14	15°35	27°25	0♁3	24♁22	28°50	18°33	26°2	24♁13	17°D57	16°52	16°16	26°R 6						
F 3	14 42 46	12°17'37	25°3	16°53	28°39	0°33	24°14	28°56	18°34	26°5	24°13	17♃58	16°49	16°23	26°6						
S 4	14 46 42	13°15'39	6♃56	18°13	29°53	1°2	24°8	29°2	18°34	26°7	24°13	17°59	16°46	16°30	26°6						
S 5	14 50 39	14°13'40	18°56	19°36	1♁6	1°32	24°1	29°9	18°35	26°9	24°13	17°R59	16°43	16°36	26°6						
M 6	14 54 35	15°11'39	1♃10	21°1	2°20	2°2	23°54	29°15	18°35	26°11	24°D13	17°58	16°40	16°43	26°5						
T 7	14 58 32	16°9'37	13°40	22°28	3°34	2°33	23°47	29°21	18°36	26°13	24°13	17°55	16°36	16°49	26°5						
W 8	15 2 28	17°7'34	26°28	23°57	4°47	3°3	23°41	29°28	18°36	26°16	24°13	17°50	16°33	16°56	26°5						
T 9	15 6 25	18°5'29	9♁37	25°28	6°1	3°34	23°34	29°34	18°37	26°18	24°13	17°42	16°30	17°3	26°4						
F 10	15 10 22	19°3'23	23°5	27°2	7°15	4°4	23°28	29°41	18°38	26°20	24°13	17°33	16°27	17°9	26°4						
S 11	15 14 18	20°1'15	6♁50	28°37	8°28	4°35	23°22	29°47	18°39	26°22	24°13	17°23	16°24	17°16	26°3						
S 12	15 18 15	20°59'06	20°49	0♁15	9°42	5°6	23°15	29°54	18°39	26°24	24°13	17°13	16°21	17°23	26°2						
M13	15 22 11	21°56'55	4♁56	1°55	10°55	5°37	23°9	0♁8	18°40	26°26	24°14	17°4	16°17	17°29	26°2						
T 14	15 26 8	22°54'42	19°8	3°37	12°9	6°8	23°4	0°8	18°41	26°28	24°14	16°58	16°14	17°36	26°1						
W15	15 30 4	23°52'28	3♁21	5°21	13°23	6°39	22°58	0°14	18°42	26°30	24°14	16°54	16°11	17°43	26°0						
T 16	15 34 1	24°50'12	17°33	7°7	14°36	7°11	22°52	0°21	18°43	26°32	24°14	16°52	16°8	17°49	25°59						
F 17	15 37 58	25°47'55	1♃40	8°55	15°50	7°42	22°47	0°28	18°44	26°34	24°15	16°D52	16°5	17°56	25°58						
S 18	15 41 54	26°45'35	15°43	10°45	17°4	8°14	22°41	0°35	18°45	26°36	24°15	16°R53	16°2	18°3	25°57						
S 19	15 45 51	27°43'14	29°41	12°38	18°17	8°46	22°36	0°42	18°47	26°38	24°15	16°52	15°58	18°9	25°55						
M20	15 49 47	28°40'52	13♁32	14°32	19°31	9°17	22°31	0°49	18°48	26°40	24°16	16°50	15°55	18°16	25°54						
T 21	15 53 44	29°38'28	27°16	16°29	20°44	9°49	22°26	0°56	18°49	26°42	24°16	16°45	15°52	18°23	25°53						
W22	15 57 40	0♁36'03	10♁50	18°27	21°58	10°21	22°21	1°3	18°50	26°44	24°17	16°37	15°49	18°29	25°51						
T 23	16 1 37	1°33'36	24°12	20°28	23°12	10°53	22°17	1°10	18°52	26°46	24°17	16°27	15°46	18°36	25°50						
F 24	16 5 33	2°31'08	7♁20	22°30	24°25	11°26	22°12	1°17	18°53	26°48	24°18	16°15	15°42	18°43	25°48						
S 25	16 9 30	3°28'40	20°13	24°34	25°39	11°58	22°8	1°25	18°55	26°50	24°18	16°2	15°39	18°49	25°47						
S 26	16 13 27	4°26'10	2♁51	26°40	26°53	12°30	22°4	1°32	18°56	26°52	24°19	15°51	15°36	18°56	25°45						
M27	16 17 23	5°23'39	15°12	28°47	28°6	13°3	22°0	1°39	18°58	26°54	24°19	15°41	15°33	19°3	25°43						
T 28	16 21 20	6°21'08	27°20	0♁56	29°20	13°35	21°56	1°47	19°0	26°56	24°20	15°33	15°30	19°9	25°42						
W29	16 25 16	7°18'35	9♁17	3°6	0♁33	14°8	21°52	1°54	19°1	26°58	24°21	15°28	15°27	19°16	25°40						
T 30	16 29 13	8°16'02	21°8	5°17	1°47	14°41	21°49	2°1	19°3	26°59	24°21	15°25	15°23	19°23	25°38						
F 31	16 33 9	9♁13'27	2♁57	7♁28	3♁1	15°14	21°46	2°9	19°5	27°0	24°22	15♃24	15♃20	19♁29	25♁36						

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat			
W 1	14n57	23s32	3s44	2n55	2s58	8n51	1s22	22n9	1n55	8s6	1n31	22n46	0s42	15n59	0n44	8n29	1s42	23n59	11n11	4s46	5s10	18s32	13s55	7n10
T 2	15 15 19	41 2 56	3 24	2 59	9 19	1 21	22 2	1 54	8 3	1 31	22 46	0 42	15 59	0 44	8 30	1 42	23 59	11 11	4 46	5 11	18 29	13 55	7 11	
F 3	15 33 15	5 2 0	3 54	2 58	9 46	1 20	21 54	1 53	8 1	1 30	22 46	0 42	15 59	0 44	8 30	1 42	23 59	11 11	4 46	5 13	18 27	13 54	7 11	
S 4	15 51 9	54 0 59	4 26	2 57	10 13	1 19	21 47	1 52	7 58	1 30	22 47	0 42	15 59	0 44	8 31	1 42	23 58	11 11	4 46	5 14	18 24	13 54	7 12	
S 5	16 8 4	18 0n 5	4 59	2 55	10 40	1 18	21 39	1 51	7 56	1 30	22 47	0 42	15 58	0 44	8 32	1 42	23 58	11 10	4 45	5 15	18 21	13 53	7 12	
M 6	16 25 1n32	1 10 5 32	2 53	11 7	1 16	21 31	1 50	7 54	1 30	22 47	0 42	15 58	0 44	8 33	1 42	23 58	11 10	4 46	5 16	18 18	13 53	7 13		
T 7	16 42 7	26 2 13	6 7	2 50	11 33	1 15	21 23	1 49	7 51	1 30	22 47	0 42	15 58	0 44	8 33	1 42	23 58	11 10	4 47	5 18	18 16	13 52	7 13	
W 8	16 59 13	11 3 11	6 43	2 47	11 59	1 13	21 15	1 48	7 49	1 30	22 47	0 41	15 58	0 43	8 34	1 42	23 58	11 10	4 49	5 19	18 13	13 52	7 14	
T 9	17 15 18	30 4 0	7 20	2 43	12 25	1 12	21 7	1 47	7 47	1 30	22 47	0 41	15 58	0 43	8 35	1 42	23 57	11 9	4 52	5 20	18 10	13 51	7 14	
F 10	17 31 23	2 4 37	7 58	2 38	12 51	1 10	20 59	1 46	7 45	1 29	22 48	0 41	15 57	0 43	8 36	1 42	23 57	11 9	4 56	5 21	18 7	13 51	7 15	
S 11	17 47 26	23 4 58	8 37	2 33	13 16	1 9	20 51	1 45	7 42	1 29	22 48	0 41	15 57	0 43	8 36	1 42	23 57	11 9	5 0	5 23	18 4	13 50	7 16	
S 12	18 2 28	12 5 3	9 17	2 27	13 41	1 7	20 43	1 44	7 40	1 29	22 48	0 41	15 57	0 43	8 37	1 42	23 56	11 9	5 4	5 24	18 2	13 50	7 16	
M13	18 17 28	12 4 49	9 57	2 21	14 6	1 5	20 34	1 43	7 38	1 29	22 48	0 41	15 56	0 43	8 38	1 42	23 56	11 8	5 7	5 25	17 59	13 49	7 17	
T 14	18 32 26	21 4 17	10 38	2 15	14 30	1 4	20 25	1 42	7 36	1 29	22 48	0 41	15 56	0 43	8 39	1 42	23 56	11 8	5 9	5 26	17 56	13 49	7 17	
W15	18 46 22	50 3 30	11 19	2 8	14 54	1 2	20 17	1 41	7 34	1 28	22 48	0 41	15 56	0 43	8 39	1 42	23 55	11 8	5 11	5 28	17 53	13 49	7 18	
T 16	19 1 17	58 2 39	12 1	2 0	15 17	1 0	20 8	1 41	7 33	1 28	22 48	0 40	15 55	0 43	8 40	1 42	23 55	11 8	5 11	5 29	17 50	13 48	7 18	
F 17	19 14 12	9 1 20	12 43	1 52	15 41	0 58	19 59	1 40	7 31	1 28	22 48	0 40	15 55	0 43	8 41	1 42	23 55	11 7	5 12	5 30	17 48	13 48	7 19	
S 18	19 28 5	44 0 6	13 26	1 44	16 3	0 56	19 50	1 39	7 29	1 28	22 48	0 40	15 55	0 43	8 42	1 42	23 54	11 7	5 11	5 31	17 45	13 48	7 19	
S 19	19 41 0	5s4 1s 8	14 9	1 35	16 26	0 54	19 40	1 38	7 27	1 28	22 49	0 40	15 54	0 43	8 42	1 42	23 54	11 7	5 12	5 33	17 42	13 47	7 20	
M20	19 54 7	27 2 16	14 52	1 26	16 48	0 53	19 31	1 37	7 25	1 27	22 49	0 40	15 54	0 43	8 43	1 42	23 54	11 6	5 13	5 34	17 39	13 47	7 20	
T 21	20 6 13	34 3 17	15 35	1 16	17 9	0 51	19 22	1 36	7 24	1 27	22 49	0 40	15 53	0 43	8 44	1 42	23 53	11 6	5 15	5 35	17 36	13 47	7 21	
W22	20 19 18	58 4 5	16 17	1 6	17 31	0 48	19 12	1 35	7 22	1 27	22 49	0 40	15 53	0 43	8 44	1 42	23 53	11 6	5 18	5 36	17 34	13 47	7 21	
T 23	20 30 23	21 4 39	17 0	0 56	17 51	0 46	19 2	1 34	7 21	1 27	22 49	0 40	15 52	0 43	8 45	1 42	23 52	11 6	5 22	5 37	17 31	13 46	7 22	
F 24	20 42 26	27 4 57	17 42	0 46	18 11	0 44	18 53	1 33	7 19	1 26	22 49	0 39	15 52	0 43	8 46	1 42	23 52	11 5	5 26	5 39	17 28	13 46	7 22	
S 25	20 53 28	6 5 0	18 23	0 35	18 31	0 42	18 43	1 33	7 18	1 26	22 49	0 39	15 52	0 43	8 46	1 42	23 52	11 5	5 31	5 40	17 25	13 46	7 23	
S 26	21 4 28	15 4 48	19 3	0 24	18 51	0 40	18 33	1 32	7 17	1 26	22 49	0 39	15 51	0 43	8 47	1 42	23 51	11 5	5 35	5 41	17 22	13 46	7 23	
M27	21 14 26	57 4 23	19 42	0 14	19 9	0 38	18 23	1 31	7 15	1 26	22 49	0 39	15 50	0 43	8 48	1 42	23 51	11 5	5 39	5 42	17 19	13 46	7 24	
T 28	21 24 24	25 3 45	20 20	0 3	19 28	0 36	18 13	1 30	7 14	1 26	22 49	0 39	15 50	0 43	8 48	1 42	23 50	11 4	5 42	5 44	17 17	13 46	7 24	
W29	21 34 20																							

SWISS EPHEMERIS for the year 1709

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S 1	16 37 6	10II10'53	14K49	9II40	4II14	15O47	21°R42	2E16	19O 7	27Y 3	24O23	15°R24	15K17	19A36	25°R34
S 2	16 41 2	11° 8'17	26°50	11°52	5°28	16°20	21A39	2°24	19° 8	27° 5	24°24	15K24	15°14	19°43	25C32
M 3	16 44 59	12° 5'41	9Y 6	14° 4	6°42	16°53	21°37	2°31	19°10	27° 6	24°24	15°22	15°11	19°49	25°29
T 4	16 48 56	13° 3'04	21°40	16°16	7°55	17°26	21°34	2°39	19°12	27° 8	24°25	15°19	15° 8	19°56	25°27
W 5	16 52 52	14° 0'27	4B37	18°27	9° 9	18° 0	21°31	2°46	19°14	27°10	24°26	15°12	15° 4	20° 3	25°25
T 6	16 56 49	14°57'49	17°58	20°37	10°23	18°33	21°29	2°54	19°16	27°11	24°27	15° 4	15° 1	20° 9	25°23
F 7	17 0 45	15°55'11	1II43	22°46	11°36	19° 7	21°27	3° 1	19°18	27°13	24°28	14°53	14°58	20°16	25°20
S 8	17 4 42	16°52'32	15°50	24°53	12°50	19°40	21°25	3° 9	19°21	27°15	24°29	14°41	14°55	20°23	25°18
S 9	17 8 38	17°49'52	0E13	26°59	14° 4	20°14	21°23	3°16	19°23	27°16	24°30	14°30	14°52	20°29	25°15
M10	17 12 35	18°47'11	14°46	29° 4	15°17	20°48	21°22	3°24	19°25	27°18	24°31	14°20	14°48	20°36	25°13
T 11	17 16 31	19°44'30	29°23	1E 6	16°31	21°22	21°20	3°32	19°27	27°19	24°32	14°13	14°45	20°43	25°10
W12	17 20 28	20°41'48	13O56	3° 7	17°45	21°56	21°19	3°40	19°30	27°21	24°33	14° 8	14°42	20°49	25° 7
T 13	17 24 25	21°39'05	28°20	5° 5	18°58	22°30	21°18	3°47	19°32	27°23	24°34	14° 5	14°39	20°56	25° 5
F 14	17 28 21	22°36'21	12M34	7° 2	20°12	23° 4	21°17	3°55	19°34	27°24	24°35	14°D 5	14°36	21° 3	25° 2
S 15	17 32 18	23°33'36	26°34	8°56	21°26	23°38	21°16	4° 3	19°37	27°25	24°36	14°R 5	14°33	21° 9	24°59
S 16	17 36 14	24°30'51	10A22	10°48	22°39	24°12	21°16	4°10	19°39	27°27	24°37	14° 4	14°29	21°16	24°56
M17	17 40 11	25°28'04	23°58	12°38	23°53	24°47	21°16	4°18	19°42	27°28	24°38	14° 2	14°26	21°23	24°53
T 18	17 44 7	26°25'17	7L21	14°26	25° 7	25°21	21°D16	4°26	19°44	27°30	24°39	13°57	14°23	21°29	24°50
W19	17 48 4	27°22'30	20°33	16°11	26°20	25°55	21°16	4°34	19°47	27°31	24°40	13°49	14°20	21°36	24°47
T 20	17 52 0	28°19'42	3A33	17°54	27°34	26°30	21°16	4°41	19°49	27°32	24°42	13°39	14°17	21°43	24°44
F 21	17 55 57	29°16'53	16°21	19°35	28°48	27° 5	21°16	4°49	19°52	27°34	24°43	13°27	14°14	21°49	24°41
S 22	17 59 54	0E14'05	28°57	21°13	0E 1	27°39	21°17	4°57	19°55	27°35	24°44	13°15	14°10	21°56	24°38
S 23	18 3 50	1°11'16	11E21	22°49	1°15	28°14	21°18	5° 5	19°58	27°36	24°45	13° 3	14° 7	22° 3	24°35
M24	18 7 47	2° 8'26	23°33	24°23	2°29	28°49	21°18	5°13	20° 0	27°37	24°47	12°53	14° 4	22° 9	24°32
T 25	18 11 43	3° 5'37	5A34	25°54	3°42	29°24	21°20	5°21	20° 3	27°39	24°48	12°45	14° 1	22°16	24°28
W26	18 15 40	4° 2'48	17°28	27°23	4°56	29°59	21°21	5°28	20° 6	27°40	24°49	12°40	13°58	22°23	24°25
T 27	18 19 36	4°59'58	29°16	28°50	6°10	0M34	21°22	5°36	20° 9	27°41	24°51	12°37	13°54	22°29	24°22
F 28	18 23 33	5°57'09	11K 4	0O14	7°24	1° 9	21°24	5°44	20°12	27°42	24°52	12°D36	13°51	22°36	24°19
S 29	18 27 30	6°54'20	22°55	1°36	8°37	1°44	21°26	5°52	20°15	27°43	24°54	12°36	13°48	22°42	24°15
S 30	18 31 26	7E51'31	4Y56	2O55	9E51	2M20	21A28	6E 0	20O18	27Y44	24O55	12°R37	13K45	22A49	24E12

Day	☉	☽	♀	♂	♂	♄	♃	♅	♆	♁	♂	♂	♃	♄										
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat										
S 1	22n 1	6s 2	0s 3	22n34	0n38	20n35	0s27	17n31	1n27	7s10	1n25	22n49	0s39	15n48	0n43	8n51	1s43	23n48	11n 3	5s46	5s49	17s 5	13s45	7n26
S 2	22 9	0 20	1n 0	23 3	0 48	20 51	0 24	17 20	1 26	7 9	1 24	22 49	0 38	15 47	0 43	8 51	1 43	23 48	11 3	5 46	5 50	17 2	13 45	7 26
M 3	22 17	5n29	2 2	23 29	0 57	21 6	0 22	17 9	1 25	7 8	1 24	22 49	0 38	15 46	0 43	8 52	1 43	23 47	11 3	5 47	5 51	16 59	13 45	7 27
T 4	22 24	11 14	2 59	23 52	1 6	21 21	0 20	16 58	1 24	7 8	1 24	22 49	0 38	15 46	0 43	8 52	1 43	23 47	11 3	5 48	5 52	16 56	13 45	7 27
W 5	22 31	16 40	3 49	24 13	1 14	21 34	0 17	16 47	1 23	7 7	1 24	22 49	0 38	15 45	0 43	8 53	1 43	23 46	11 3	5 50	5 53	16 54	13 45	7 28
T 6	22 38	21 30	4 28	24 31	1 22	21 48	0 15	16 36	1 23	7 6	1 23	22 49	0 38	15 44	0 42	8 53	1 43	23 46	11 2	5 54	5 55	16 51	13 45	7 28
F 7	22 44	25 19	4 53	24 46	1 29	22 0	0 13	16 25	1 22	7 6	1 23	22 49	0 38	15 44	0 42	8 54	1 43	23 45	11 2	5 58	5 56	16 48	13 45	7 28
S 8	22 50	27 42	5 0	24 58	1 35	22 12	0 10	16 13	1 21	7 5	1 23	22 49	0 38	15 43	0 42	8 55	1 43	23 45	11 2	6 2	5 57	16 45	13 45	7 29
S 9	22 55	28 18	4 49	25 8	1 41	22 24	0 8	16 2	1 20	7 5	1 22	22 49	0 38	15 42	0 42	8 55	1 43	23 44	11 2	6 7	5 58	16 42	13 45	7 29
M10	23 0	26 58	4 20	25 14	1 46	22 34	0 5	15 50	1 19	7 4	1 22	22 49	0 38	15 42	0 42	8 56	1 43	23 44	11 1	6 11	6 0	16 39	13 45	7 30
T 11	23 5	23 47	3 33	25 18	1 50	22 45	0 3	15 39	1 18	7 4	1 22	22 48	0 38	15 41	0 42	8 56	1 43	23 43	11 1	6 13	6 1	16 36	13 45	7 30
W12	23 9	19 6	2 32	25 20	1 53	22 54	0 1	15 27	1 18	7 4	1 22	22 48	0 37	15 40	0 42	8 57	1 43	23 43	11 1	6 15	6 2	16 33	13 45	7 30
T 13	23 13	13 21	1 22	25 19	1 56	23 3	0n 2	15 15	1 17	7 4	1 21	22 48	0 37	15 39	0 42	8 57	1 43	23 42	11 1	6 16	6 3	16 30	13 46	7 31
F 14	23 16	6 59	0 8	25 15	1 58	23 11	0 4	15 3	1 16	7 4	1 21	22 48	0 37	15 39	0 42	8 58	1 43	23 42	11 1	6 16	6 4	16 27	13 46	7 31
S 15	23 19	0 22	1s 6	25 9	1 59	23 18	0 6	14 51	1 15	7 4	1 21	22 48	0 37	15 38	0 42	8 58	1 43	23 41	11 0	6 16	6 6	16 25	13 46	7 31
S 16	23 22	6s10	2 14	25 1	2 0	23 25	0 9	14 39	1 15	7 4	1 21	22 48	0 37	15 37	0 42	8 59	1 43	23 40	11 0	6 17	6 7	16 22	13 46	7 32
M17	23 24	12 19	3 14	24 51	1 59	23 31	0 11	14 27	1 14	7 4	1 20	22 48	0 37	15 36	0 42	8 59	1 43	23 40	11 0	6 18	6 8	16 19	13 46	7 32
T 18	23 26	17 48	4 3	24 39	1 58	23 37	0 13	14 14	1 13	7 4	1 20	22 47	0 37	15 35	0 42	8 59	1 43	23 39	11 0	6 20	6 9	16 16	13 46	7 32
W19	23 27	22 22	4 37	24 26	1 57	23 42	0 16	14 2	1 12	7 4	1 20	22 47	0 37	15 34	0 42	9 0	1 43	23 39	11 0	6 23	6 11	16 13	13 47	7 33
T 20	23 28	25 45	4 57	24 10	1 54	23 46	0 18	13 49	1 11	7 5	1 19	22 47	0 37	15 34	0 42	9 0	1 43	23 38	10 59	6 26	6 12	16 10	13 47	7 33
F 21	23 29	27 46	5 1	23 53	1 51	23 49	0 20	13 37	1 11	7 5	1 19	22 47	0 37	15 33	0 42	9 1	1 44	23 37	10 59	6 31	6 13	16 7	13 47	7 33
S 22	23 29	28 19	4 50	23 34	1 48	23 52	0 23	13 24	1 10	7 6	1 19	22 47	0 36	15 32	0 42	9 1	1 44	23 37	10 59	6 36	6 14	16 4	13 47	7 33
S 23	23 28	27 25	4 26	23 15	1 43	23 53	0 25	13 11	1 9	7 6	1 19	22 47	0 36	15 31	0 42	9 2	1 44	23 36	10 59	6 40	6 16	16 1	13 48	7 34
M24	23 28	25 12	3 50	22 54	1 38	23 55	0 27	12 58	1 8	7 7	1 18	22 46	0 36	15 30	0 42	9 2	1 44	23 35	10 59	6 44	6 17	15 58	13 48	7 34
T 25	23 27	21 52	3 3	22 31	1 33	23 55	0 30	12 45	1 8	7 7	1 18	22 46	0 36	15 29	0 42	9 2	1 44	23 35	10 58	6 47	6 18	15 55	13 48	7 34
W26	23 25	17 41	2 10	22 8	1 27	23 55	0 32	12 32	1 7	7 8	1 18	22 46	0 36	15 28	0 42	9 3	1 44	23 34	10 58	6 49	6 19	15 52	13 49	7 34
T 27	23 23	12 51	1 10	21 44	1 20	23 54	0 34	12 19	1 6	7 9	1 18	22 46	0 36	15 27	0 42	9 3	1 44	23 34	10 58	6 50	6 20	15 49	13 49	7 35
F 28	23 21	7 33	0 8	21 19	1 13	23 52	0 36	12 6	1 5	7 10	1 17	22 45	0 36	15 26	0 42	9 3	1 44	23 33	10 58	6 51	6 22	15 46	13 49	7 35
S 29	23 18	1 58	0n55	20 54	1 5	23 50	0 38	11 53	1 5	7 11	1 17	22 45	0 36	15 25	0 42	9 4	1 44	23 32	10 58	6 50				

SWISS EPHEMERIS for the year 1709

JULY 1709

00:00 UT

Table with 16 columns (Day, Sid.t, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅) containing astronomical data for July 1709.

Table with 16 columns (Day, ☉, ☽, ♀, ♀, ♂, ♃, ♅, ♁, ♃, ♄, ♅, ♁, ♃, ♅) containing astronomical data for July 1709, including declination and latitude values.

Julian Day Number = 2345440.5, Delta T = 8.89 sec
Ecliptic obliquity = 23°28'46", Nutation = 0°00'05"
Ayanamsha: Fagan/Bradley = 20°41'06", Lahiri = 19°48'06"Greg. Calendar

SWISS EPHEMERIS for the year 1709

AUGUST 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 37 36	8♄24'25"	4♂29	14°R21	19♂15	21♂43	23♂57	10♂3	22♂6	28°R 1	25♂49	10°R51	12♂3	26♂22	22°R20	
F 2	20 41 32	9°21'54"	18°18'	13♂35	20°29'	22°20'	24° 4'	10°10'	22° 9'	28♂1	25°51'	10♂47	12° 0'	26°29'	22♂17	
S 3	20 45 29	10°19'25"	2♂35	12°48'	21°43'	22°58'	24°12'	10°17'	22°13'	28° 1'	25°53'	10°43'	11°57'	26°35'	22°13'	
S 4	20 49 26	11°16'56"	17°16'	12° 1'	22°57'	23°35'	24°19'	10°24'	22°17'	28° 1'	25°55'	10°39'	11°54'	26°42'	22°10'	
M 5	20 53 22	12°14'29"	2♂15	11°14'	24°11'	24°13'	24°26'	10°31'	22°21'	28° 0'	25°57'	10°35'	11°51'	26°49'	22° 7'	
T 6	20 57 19	13°12'03"	17°24'	10°28'	25°25'	24°51'	24°34'	10°38'	22°24'	28° 0'	25°59'	10°33'	11°47'	26°55'	22° 4'	
W 7	21 1 15	14° 9'38"	2♂34	9°44'	26°39'	25°28'	24°42'	10°45'	22°28'	28° 0'	26° 1'	10°31'	11°44'	27° 2'	22° 0'	
T 8	21 5 12	15° 7'13"	17°34'	9° 4'	27°52'	26° 6'	24°50'	10°52'	22°32'	28° 0'	26° 3'	10°D31	11°41'	27° 9'	21°57'	
F 9	21 9 8	16° 4'50"	2♂18	8°27'	29° 6'	26°44'	24°58'	10°59'	22°35'	28° 0'	26° 5'	10°32'	11°38'	27°15'	21°54'	
S 10	21 13 5	17° 2'28"	16°41'	7°55'	0♂20	27°22'	25° 6'	11° 6'	22°39'	27°59'	26° 7'	10°33'	11°35'	27°22'	21°51'	
S 11	21 17 1	18° 0'07"	0♂39	7°28'	1°34'	28° 0'	25°14'	11°13'	22°43'	27°59'	26° 9'	10°35'	11°32'	27°29'	21°48'	
M12	21 20 58	18°57'47"	14°13'	7° 8'	2°48'	28°38'	25°22'	11°20'	22°47'	27°59'	26°11'	10°R35	11°28'	27°35'	21°45'	
T 13	21 24 55	19°55'28"	27°24'	6°53'	4° 2'	29°16'	25°31'	11°27'	22°50'	27°58'	26°13'	10°35'	11°25'	27°42'	21°42'	
W14	21 28 51	20°53'10"	10♂15	6°46'	5°16'	29°54'	25°39'	11°33'	22°54'	27°58'	26°15'	10°34'	11°22'	27°48'	21°39'	
T 15	21 32 48	21°50'53"	22°48'	6°D46	6°30'	0♂32	25°48'	11°40'	22°58'	27°58'	26°17'	10°32'	11°19'	27°55'	21°36'	
F 16	21 36 44	22°48'37"	5♂8	6°53'	7°44'	1°10'	25°57'	11°46'	23° 2'	27°57'	26°19'	10°30'	11°16'	28° 2'	21°33'	
S 17	21 40 41	23°46'23"	17°15'	7° 8'	8°58'	1°49'	26° 6'	11°53'	23° 5'	27°57'	26°21'	10°27'	11°12'	28° 8'	21°31'	
S 18	21 44 37	24°44'09"	29°15'	7°31'	10°12'	2°27'	26°15'	11°59'	23° 9'	27°56'	26°23'	10°25'	11° 9'	28°15'	21°28'	
M19	21 48 34	25°41'57"	11♂8	8° 1'	11°26'	3° 6'	26°24'	12° 6'	23°13'	27°56'	26°25'	10°23'	11° 6'	28°22'	21°25'	
T 20	21 52 30	26°39'47"	22°58'	8°39'	12°40'	3°44'	26°33'	12°12'	23°17'	27°55'	26°26'	10°22'	11° 3'	28°28'	21°23'	
W21	21 56 27	27°37'38"	4♂45	9°24'	13°54'	4°23'	26°42'	12°18'	23°20'	27°54'	26°28'	10°D21	11° 0'	28°35'	21°20'	
T 22	22 0 24	28°35'30"	16°34'	10°17'	15° 8'	5° 1'	26°52'	12°25'	23°24'	27°54'	26°30'	10°21'	10°57'	28°42'	21°18'	
F 23	22 4 20	29°33'24"	28°26'	11°17'	16°22'	5°40'	27° 1'	12°31'	23°28'	27°53'	26°32'	10°22'	10°53'	28°48'	21°15'	
S 24	22 8 17	0♂31'19"	10♂23	12°23'	17°36'	6°18'	27°11'	12°37'	23°31'	27°52'	26°34'	10°22'	10°50'	28°55'	21°13'	
S 25	22 12 13	1°29'17"	22°29'	13°36'	18°50'	6°57'	27°21'	12°43'	23°35'	27°52'	26°36'	10°23'	10°47'	29° 2'	21°10'	
M26	22 16 10	2°27'16"	4♂47	14°54'	20° 4'	7°36'	27°31'	12°49'	23°39'	27°51'	26°38'	10°24'	10°44'	29° 8'	21° 8'	
T 27	22 20 6	3°25'17"	17°21'	16°19'	21°18'	8°15'	27°41'	12°55'	23°43'	27°50'	26°40'	10°25'	10°41'	29°15'	21° 6'	
W28	22 24 3	4°23'20"	0♂14	17°48'	22°32'	8°54'	27°51'	13° 1'	23°46'	27°49'	26°42'	10°R25	10°38'	29°22'	21° 4'	
T 29	22 27 59	5°21'26"	13°29'	19°22'	23°46'	9°33'	28° 1'	13° 7'	23°50'	27°48'	26°44'	10°25'	10°34'	29°28'	21° 1'	
F 30	22 31 56	6°19'33"	27° 9'	21° 0'	25° 0'	10°12'	28°11'	13°12'	23°54'	27°47'	26°46'	10°25'	10°31'	29°35'	20°59'	
S 31	22 35 53	7♂17'42"	11♂15	22♂42	26♂14	10♂51	28♂21	13♂18	23♂57	27♂46	26♂48	10♂24	10♂28	29♂42	20♂57	

Day	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	18n12	26n10	5n11	11n52	4s53	16n26	1n25	3n55	0n41	8s15	1n 9	22n32	0s34	14n49	0n41	9n 8
F 2	17 56 28	7 5 10	12 5	4 54 16	3 1 26	3 40 0	4 0 8 18	1 8 22	32 0 33	14 48 0	4 1 9 8	1 46 23	9 10 54	7 32 7	4 14 1	14 9 7 35
S 3	17 41 28	18 4 51	12 19	4 52 15	3 9 1 26	3 24 0	4 0 8 21	1 8 22	31 0 33	14 47 0	4 1 9 8	1 46 23	8 10 54	7 34 7	5 13 57	14 9 7 35
S 4	17 25 26	31 4 12	12 35	4 49 15	1 15 1 27	3 9 0	3 9 8 23	1 8 22	31 0 33	14 46 0	4 1 9 8	1 46 23	8 10 54	7 35 7	7 13 54	14 10 7 35
M 5	17 9 22	51 3 15	12 52	4 45 14	1 15 1 27	2 53 0	3 8 8 26	1 8 22	31 0 33	14 44 0	4 1 9 8	1 46 23	7 10 54	7 37 7	8 13 51	14 11 7 35
T 6	16 53 17	36 2 4	13 11	4 38 14	1 26 1 27	2 38 0	3 7 8 29	1 7 22	30 0 33	14 43 0	4 1 9 8	1 46 23	6 10 54	7 38 7	9 13 48	14 11 7 34
W 7	16 36 11	15 0 44	13 31	4 29 14	1 1 27	2 22 0	3 7 8 32	1 7 22	30 0 33	14 42 0	4 1 9 8	1 46 23	6 10 54	7 38 7	10 13 45	14 12 7 34
T 8	16 20 4	19 0s39	13 51	4 19 13	1 28 2 6	0 36 8 36	1 7 22	29 0 33	14 41 0	4 1 9 7	1 46 23	5 10 54	7 38 7	12 13 42	14 13 7 34	
F 9	16 3 2s43	1 57	14 12	4 8 13	1 28 1 51	0 35 8 39	1 7 22	28 0 33	14 40 0	4 1 9 7	1 46 23	4 10 54	7 38 7	13 13 39	14 14 7 34	
S 10	15 45 9	26 3 6	14 32	3 55 12	1 44 1 28	1 35 0	3 5 8 42	1 7 22	28 0 33	14 38 0	4 1 9 7	1 47 23	4 10 54	7 37 7	14 13 36	14 14 7 33
S 11	15 28 15	30 4 2	14 53	3 40 12	1 18 1 27	1 19 0	3 4 8 45	1 6 22	27 0 33	14 37 0	4 1 9 7	1 47 23	3 10 54	7 37 7	15 13 33	14 15 7 33
M12	15 10 20	38 4 43	15 13	3 25 11	1 51 1 27	1 3 0	3 3 8 48	1 6 22	27 0 33	14 36 0	4 1 9 7	1 47 23	2 10 54	7 36 7	16 13 30	14 16 7 33
T 13	14 52 24	36 5 7	15 32	3 9 11	1 24 1 27	0 48 0	3 3 8 52	1 6 22	26 0 33	14 35 0	4 1 9 7	1 47 23	2 10 54	7 37 7	18 13 26	14 17 7 33
W14	14 33 27	13 5 15	15 50	2 52 10	1 56 1 27	0 32 0	3 2 8 55	1 6 22	26 0 33	14 33 0	4 1 9 6	1 47 23	1 10 55	7 37 7	19 13 23	14 17 7 32
T 15	14 15 28	25 5 8	16 7	2 35 10	1 29 1 26	0 16 0	3 1 8 58	1 5 22	25 0 33	14 32 0	4 1 9 6	1 47 23	0 10 55	7 38 7	20 13 20	14 18 7 32
F 16	13 56 28	10 4 47	16 22	2 18 10	1 1 26	0 0 31	9 2 1 5	2 25 0	33 14 31	0 41 9 6	1 47 23	0 10 55	7 39 7	21 13 17	14 19 7 32	
S 17	13 37 26	33 4 13	16 35	2 0 9	32 1 25	0s16	0 30 9 5	1 5 22	24 0 33	14 30 0	4 1 9 6	1 47 22	59 10 55	7 40 7	22 13 14	14 19 7 31
S 18	13 18 23	44 3 28	16 47	1 42 9	4 1 25	0 32 0	29 9 8	1 5 22	24 0 33	14 29 0	4 1 9 6	1 47 22	58 10 55	7 40 7	24 13 11	14 20 7 31
M19	12 58 19	56 2 35	16 56	1 25 8	35 1 24	0 48 0	29 9 12	1 5 22	23 0 33	14 27 0	4 1 9 5	1 47 22	58 10 55	7 41 7	25 13 8	14 21 7 31
T 20	12 39 15	23 1 35	17 3	1 7 8	6 1 23	1 4 0	28 9 15	1 4 22	23 0 32	14 26 0	4 1 9 5	1 47 22	57 10 55	7 42 7	26 13 5	14 22 7 30
W21	12 19 10	16 0 31	17 7	0 50 7	37 1 23	1 19 0	27 9 19	1 4 22	22 0 32	14 25 0	4 1 9 5	1 47 22	56 10 55	7 42 7	27 13 2	14 22 7 30
T 22	11 59 4	47 0n34	17 9	0 34 7	7 1 22	1 35 0	27 9 23	1 4 22	22 0 32	14 24 0	4 1 9 4	1 47 22	56 10 55	7 42 7	28 12 58	14 23 7 30
F 23	11 39 0n53	1 39	17 8	0 18 6	38 1 21	1 51 0	26 9 26	1 4 22	21 0 32	14 22 0	4 1 9 4	1 47 22	55 10 55	7 42 7	30 12 55	14 24 7 29
S 24	11 18 6	33 2 39	17 4	0 4 6	8 1 20	2 7 0	25 9 30	1 4 22	21 0 32	14 21 0	4 1 9 4	1 47 22	54 10 55	7 41 7	31 12 52	14 25 7 29
S 25	10 58 12	3 3 33	16 56	0n11	5 38 1 19	2 23 0	25 9 33	1 4 22	20 0 32	14 20 0	4 1 9 4	1 47 22	54 10 55	7 41 7	32 12 49	14 25 7 28
M26	10 37 17	11 4 18	16 46	0 24 5	8 1 18	2 39 0	24 9 37	1 3 22	20 0 32	14 19 0	4 1 9 3	1 47 22	53 10 55	7 41 7	33 12 46	14 26 7 28
T 27	10 16 21	42 4 52	16 33	0 36 4	38 1 17	2 55 0	23 9 41	1 3 22	19 0 32	14 18 0	4 1 9 3	1 47 22	53 10 55	7 41 7	35 12 43	14 27 7 28
W28	9 55 25	19 5														

SWISS EPHEMERIS for the year 1709

SEPTEMBER 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	22 39 49	8 ^m 15'53	25 ^o 45	24 ^o 26	27 ^m 27	11 ^o 30	28 ^o 32	13 ^o 24	24 ^o 01	27 ^o R46	26 ^o 50	10 ^o R24	10 ^o 25	29 ^o 48	20 ^o R55
M 2	22 43 46	9 ^o 14'06	10 ^o 06	26 ^o 14	28 ^o 41	12 ^o 10	28 ^o 42	13 ^o 29	24 ^o 5	27 ^o Y45	26 ^o 52	10 ^o R24	10 ^o 22	29 ^o 55	20 ^o Z54
T 3	22 47 42	10 ^o 12'21	25 ^o 41	28 ^o 3	29 ^o 55	12 ^o 49	28 ^o 53	13 ^o 35	24 ^o 8	27 ^o 44	26 ^o 54	10 ^o D24	10 ^o 18	0 ^o X 1	20 ^o 52
W 4	22 51 39	11 ^o 10'38	10 ^o 06	29 ^o 54	1 ^o 9	13 ^o 28	29 ^o 3	13 ^o 40	24 ^o 12	27 ^o 43	26 ^o 56	10 ^o R24	10 ^o 15	0 ^o 8	20 ^o 50
T 5	22 55 35	12 ^o 8'56	25 ^o 58	1 ^o 47	2 ^o 23	14 ^o 8	29 ^o 14	13 ^o 45	24 ^o 16	27 ^o 42	26 ^o 58	10 ^o 24	10 ^o 12	0 ^o 15	20 ^o 48
F 6	22 59 32	13 ^o 7'17	10 ^o 06	3 ^o 40	3 ^o 37	14 ^o 47	29 ^o 25	13 ^o 51	24 ^o 19	27 ^o 40	27 ^o 0	10 ^o 24	10 ^o 9	0 ^o 21	20 ^o 47
S 7	23 3 28	14 ^o 5'39	25 ^o 26	5 ^o 34	4 ^o 51	15 ^o 27	29 ^o 36	13 ^o 56	24 ^o 23	27 ^o 39	27 ^o 2	10 ^o 23	10 ^o 6	0 ^o 28	20 ^o 45
S 8	23 7 25	15 ^o 4'02	9 ^o 36	7 ^o 28	6 ^o 5	16 ^o 7	29 ^o 47	14 ^o 1	24 ^o 26	27 ^o 38	27 ^o 4	10 ^o 23	10 ^o 3	0 ^o 35	20 ^o 44
M 9	23 11 22	16 ^o 2'27	23 ^o 18	9 ^o 23	7 ^o 19	16 ^o 46	29 ^o 58	14 ^o 6	24 ^o 30	27 ^o 37	27 ^o 5	10 ^o 22	9 ^o 59	0 ^o 41	20 ^o 42
T 10	23 15 18	17 ^o 0'54	6 ^o 35	11 ^o 17	8 ^o 33	17 ^o 26	0 ^o 31	14 ^o 11	24 ^o 34	27 ^o 36	27 ^o 7	10 ^o 22	9 ^o 56	0 ^o 48	20 ^o 41
W 11	23 19 15	17 ^o 59'23	19 ^o 27	13 ^o 11	9 ^o 47	18 ^o 6	0 ^o 20	14 ^o 16	24 ^o 37	27 ^o 35	27 ^o 9	10 ^o D22	9 ^o 53	0 ^o 55	20 ^o 40
T 12	23 23 11	18 ^o 57'53	1 ^o 58	15 ^o 4	11 ^o 0	18 ^o 46	0 ^o 31	14 ^o 21	24 ^o 41	27 ^o 34	27 ^o 11	10 ^o 22	9 ^o 50	1 ^o 1	20 ^o 38
F 13	23 27 8	19 ^o 56'25	14 ^o 12	16 ^o 57	12 ^o 14	19 ^o 26	0 ^o 42	14 ^o 25	24 ^o 44	27 ^o 32	27 ^o 13	10 ^o 23	9 ^o 47	1 ^o 8	20 ^o 37
S 14	23 31 4	20 ^o 54'58	26 ^o 14	18 ^o 49	13 ^o 28	20 ^o 6	0 ^o 54	14 ^o 30	24 ^o 48	27 ^o 31	27 ^o 15	10 ^o 24	9 ^o 44	1 ^o 15	20 ^o 36
S 15	23 35 1	21 ^o 53'34	8 ^o 7	20 ^o 41	14 ^o 42	20 ^o 46	1 ^o 5	14 ^o 34	24 ^o 51	27 ^o 30	27 ^o 17	10 ^o 25	9 ^o 40	1 ^o 21	20 ^o 35
M 16	23 38 57	22 ^o 52'11	19 ^o 56	22 ^o 31	15 ^o 56	21 ^o 26	1 ^o 17	14 ^o 39	24 ^o 54	27 ^o 28	27 ^o 18	10 ^o 26	9 ^o 37	1 ^o 28	20 ^o 34
T 17	23 42 54	23 ^o 50'49	1 ^o 33	24 ^o 21	17 ^o 10	22 ^o 6	1 ^o 28	14 ^o 43	24 ^o 58	27 ^o 27	27 ^o 20	10 ^o 27	9 ^o 34	1 ^o 34	20 ^o 34
W 18	23 46 51	24 ^o 49'30	13 ^o 33	26 ^o 10	18 ^o 23	22 ^o 46	1 ^o 40	14 ^o 47	25 ^o 1	27 ^o 26	27 ^o 22	10 ^o R27	9 ^o 31	1 ^o 41	20 ^o 33
T 19	23 50 47	25 ^o 48'12	25 ^o 26	27 ^o 57	19 ^o 37	23 ^o 26	1 ^o 52	14 ^o 52	25 ^o 5	27 ^o 24	27 ^o 24	10 ^o 26	9 ^o 28	1 ^o 48	20 ^o 32
F 20	23 54 44	26 ^o 46'57	7 ^o Y26	29 ^o 44	20 ^o 51	24 ^o 7	2 ^o 4	14 ^o 56	25 ^o 8	27 ^o 23	27 ^o 26	10 ^o 25	9 ^o 24	1 ^o 54	20 ^o 31
S 21	23 58 40	27 ^o 45'43	19 ^o 34	1 ^o 30	22 ^o 5	24 ^o 47	2 ^o 15	15 ^o 0	25 ^o 11	27 ^o 22	27 ^o 27	10 ^o 23	9 ^o 21	2 ^o 1	20 ^o 31
S 22	0 2 37	28 ^o 44'32	1 ^o 31	3 ^o 15	23 ^o 19	25 ^o 28	2 ^o 27	15 ^o 4	25 ^o 14	27 ^o 20	27 ^o 29	10 ^o 20	9 ^o 18	2 ^o 8	20 ^o 30
M 23	0 6 33	29 ^o 43'23	14 ^o 21	4 ^o 59	24 ^o 32	26 ^o 8	2 ^o 39	15 ^o 7	25 ^o 18	27 ^o 19	27 ^o 31	10 ^o 17	9 ^o 15	2 ^o 14	20 ^o 30
T 24	0 10 30	0 ^o 42'16	27 ^o 3	6 ^o 43	25 ^o 46	26 ^o 49	2 ^o 51	15 ^o 11	25 ^o 21	27 ^o 17	27 ^o 33	10 ^o 14	9 ^o 12	2 ^o 21	20 ^o 30
W 25	0 14 26	1 ^o 41'11	10 ^o II 1	8 ^o 25	27 ^o 0	27 ^o 29	3 ^o 3	15 ^o 15	25 ^o 24	27 ^o 16	27 ^o 34	10 ^o 12	9 ^o 9	2 ^o 28	20 ^o 29
T 26	0 18 23	2 ^o 40'09	23 ^o 16	10 ^o 6	28 ^o 14	28 ^o 10	3 ^o 16	15 ^o 18	25 ^o 27	27 ^o 14	27 ^o 36	10 ^o 11	9 ^o 5	2 ^o 34	20 ^o 29
F 27	0 22 20	3 ^o 39'09	6 ^o 50	11 ^o 47	29 ^o 27	28 ^o 51	3 ^o 28	15 ^o 22	25 ^o 31	27 ^o 13	27 ^o 38	10 ^o D10	9 ^o 2	2 ^o 41	20 ^o 29
S 28	0 26 16	4 ^o 38'11	20 ^o 44	13 ^o 26	0 ^o ML41	29 ^o 32	3 ^o 40	15 ^o 25	25 ^o 34	27 ^o 11	27 ^o 39	10 ^o 11	8 ^o 59	2 ^o 48	20 ^o D29
S 29	0 30 13	5 ^o 37'16	4 ^o 58	15 ^o 5	1 ^o 55	0 ^o ML12	3 ^o 52	15 ^o 28	25 ^o 37	27 ^o 10	27 ^o 41	10 ^o 12	8 ^o 56	2 ^o 54	20 ^o 29
M 30	0 34 9	6 ^o 36'23	19 ^o 029	16 ^o 43	3 ^o ML 8	0 ^o ML53	4 ^o ML 5	15 ^o 32	25 ^o 40	27 ^o Y 8	27 ^o 43	10 ^o X 14	8 ^o X 53	3 ^o X 1	20 ^o Z 29

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁	♁								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat							
S 1	8n29	24n41	3n44	14n42	1n23	2n 5	1n10	4s15	0n20	10s 0	1n 2	22n16	0s32	14n11	0n42	9n 1	1s48	22n50	10n56	7s41	7s41	12s27	14s30	7n26
M 2	8 7	20 9	2 38	14 12	1 30	1 34	1 8	4 31	0 19	10 4	1 2	22 16	0 32	14 10	0 42	9 1	1 48	22 49	10 56	7 41	7 42	12 24	14 31	7 25
T 3	7 45	14 15	1 21	13 39	1 35	1 3	1 7	4 47	0 19	10 8	1 2	22 15	0 32	14 9	0 42	9 0	1 48	22 49	10 56	7 41	7 43	12 21	14 32	7 25
W 4	7 23	7 28	0s 3	13 5	1 39	0 32	1 5	5 3	0 18	10 12	1 2	22 15	0 32	14 8	0 42	9 0	1 48	22 48	10 56	7 41	7 44	12 17	14 32	7 24
T 5	7 1	0 18	1 25	12 28	1 43	0 1	1 3	5 19	0 17	10 16	1 2	22 14	0 32	14 7	0 42	8 59	1 48	22 48	10 57	7 41	7 45	12 14	14 33	7 24
F 6	6 39	6s47	2 41	11 49	1 46	0s30	1 2	5 35	0 17	10 19	1 1	22 14	0 32	14 5	0 42	8 59	1 48	22 47	10 57	7 41	7 47	12 11	14 34	7 23
S 7	6 16	13 21	3 45	11 9	1 47	1 1	1 0	5 51	0 16	10 23	1 1	22 13	0 32	14 4	0 42	8 59	1 48	22 46	10 57	7 41	7 48	12 8	14 35	7 23
S 8	5 54	19 1	4 33	10 27	1 48	1 32	0 58	6 7	0 15	10 27	1 1	22 13	0 32	14 3	0 42	8 58	1 48	22 46	10 57	7 41	7 49	12 5	14 35	7 22
M 9	5 31	23 31	5 4	9 44	1 48	2 3	0 56	6 22	0 15	10 32	1 1	22 13	0 32	14 2	0 42	8 58	1 48	22 45	10 57	7 41	7 50	12 2	14 36	7 22
T 10	5 8	26 39	5 17	9 1	1 48	2 34	0 54	6 38	0 14	10 36	1 1	22 12	0 32	14 1	0 42	8 57	1 48	22 45	10 57	7 42	7 51	11 58	14 37	7 21
W 11	4 45	28 16	5 14	8 16	1 47	3 5	0 52	6 54	0 13	10 40	1 1	22 12	0 31	14 0	0 42	8 57	1 48	22 44	10 58	7 42	7 53	11 55	14 37	7 21
T 12	4 22	28 23	4 55	7 30	1 45	3 36	0 50	7 10	0 13	10 44	1 1	22 11	0 31	13 58	0 42	8 56	1 48	22 44	10 58	7 42	7 54	11 52	14 38	7 20
F 13	3 59	27 6	4 24	6 44	1 43	4 7	0 48	7 26	0 12	10 48	1 0	22 11	0 31	13 57	0 42	8 56	1 48	22 43	10 58	7 41	7 55	11 49	14 39	7 20
S 14	3 36	24 34	3 42	5 58	1 40	4 38	0 46	7 41	0 12	10 52	1 0	22 10	0 31	13 56	0 42	8 55	1 48	22 43	10 58	7 41	7 56	11 46	14 39	7 19
S 15	3 13	21 0	2 50	5 11	1 37	5 8	0 43	7 57	0 11	10 56	1 0	22 10	0 31	13 55	0 42	8 55	1 48	22 42	10 58	7 41	7 57	11 43	14 40	7 19
M 16	2 50	16 37	1 51	4 24	1 33	5 39	0 41	8 13	0 10	11 0	1 0	22 9	0 31	13 54	0 42	8 54	1 48	22 42	10 59	7 40	7 59	11 39	14 40	7 18
T 17	2 27	11 38	0 48	3 37	1 29	6 9	0 39	8 28	0 10	11 4	1 0	22 9	0 31	13 53	0 42	8 54	1 48	22 42	10 59	7 40	8 0	11 36	14 41	7 18
W 18	2 4	6 13	0n17	2 49	1 24	6 40	0 36	8 44	0 9	11 8	1 0	22 8	0 31	13 52	0 42	8 53	1 48	22 41	10 59	7 40	8 1	11 33	14 42	7 17
T 19	1 40	0 34	1 22	2 2	1 20	7 10	0 34	8 59	0 8</															

SWISS EPHEMERIS for the year 1709

OCTOBER 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	0 38 6	7♄35'33	4♃16	18♂20	4♃22	1♃34	4♃17	15♄35	25♂43	27°R 7	27♂44	10°R15	8♃49	3♃8	20♂30
W 2	0 42 2	8°34'44	19°12	19°56	5°36	2°16	4°29	15°38	25°46	27°Y 5	27°46	10°K15	8°46	3°14	20°30
T 3	0 45 59	9°33'58	4♂9	21°32	6°49	2°57	4°42	15°41	25°49	27°4	27°47	10°13	8°43	3°21	20°30
F 4	0 49 55	10°33'14	18°59	23°6	8°3	3°38	4°54	15°43	25°52	27°2	27°49	10°10	8°40	3°27	20°31
S 5	0 53 52	11°32'31	3♃35	24°40	9°17	4°19	5°7	15°46	25°55	27°0	27°50	10°6	8°37	3°34	20°31
S 6	0 57 48	12°31'51	17°49	26°14	10°30	5°0	5°19	15°48	25°58	26°59	27°52	10°1	8°34	3°41	20°32
M 7	1 1 45	13°31'13	1♃38	27°46	11°44	5°42	5°32	15°51	26°0	26°57	27°53	9°56	8°30	3°47	20°32
T 8	1 5 42	14°30'36	15°0	29°18	12°58	6°23	5°45	15°53	26°3	26°56	27°55	9°51	8°27	3°54	20°33
W 9	1 9 38	15°30'02	27°57	0♃49	14°11	7°5	5°57	15°55	26°6	26°54	27°56	9°48	8°24	4°1	20°34
T 10	1 13 35	16°29'29	10♂30	2°19	15°25	7°46	6°10	15°58	26°9	26°52	27°58	9°47	8°21	4°7	20°35
F 11	1 17 31	17°28'58	22°44	3°49	16°38	8°28	6°23	16°0	26°11	26°51	27°59	9°D47	8°18	4°14	20°36
S 12	1 21 28	18°28'29	4♂44	5°18	17°52	9°10	6°36	16°2	26°14	26°49	28°1	9°48	8°15	4°21	20°37
S 13	1 25 24	19°28'01	16°36	6°46	19°5	9°51	6°49	16°3	26°17	26°47	28°2	9°50	8°11	4°27	20°38
M14	1 29 21	20°27'36	28°23	8°13	20°19	10°33	7°2	16°5	26°19	26°46	28°3	9°51	8°8	4°34	20°39
T 15	1 33 18	21°27'12	10♃11	9°40	21°32	11°15	7°14	16°7	26°22	26°44	28°5	9°R52	8°5	4°41	20°41
W16	1 37 14	22°26'49	22°4	11°6	22°46	11°57	7°27	16°8	26°24	26°42	28°6	9°51	8°2	4°47	20°42
T 17	1 41 11	23°26'29	4°Y 5	12°31	23°59	12°39	7°40	16°10	26°27	26°41	28°7	9°48	7°59	4°54	20°43
F 18	1 45 7	24°26'11	16°15	13°56	25°13	13°21	7°53	16°11	26°29	26°39	28°9	9°43	7°55	5°0	20°45
S 19	1 49 4	25°25'54	28°38	15°19	26°26	14°3	8°6	16°12	26°31	26°37	28°10	9°36	7°52	5°7	20°46
S 20	1 53 0	26°25'40	11♂13	16°42	27°40	14°45	8°19	16°13	26°34	26°35	28°11	9°28	7°49	5°14	20°48
M21	1 56 57	27°25'28	24°1	18°3	28°53	15°27	8°32	16°14	26°36	26°34	28°12	9°19	7°46	5°20	20°50
T 22	2 0 53	28°25'18	7♃2	19°24	0♃6	16°9	8°45	16°15	26°38	26°32	28°13	9°11	7°43	5°27	20°51
W23	2 4 50	29°25'10	20°15	20°44	1°20	16°52	8°59	16°15	26°40	26°30	28°14	9°3	7°40	5°34	20°53
T 24	2 8 46	0♃25'04	3♄5	22°2	2°33	17°34	9°12	16°16	26°43	26°29	28°16	8°58	7°36	5°40	20°55
F 25	2 12 43	1°25'01	17°17	23°19	3°46	18°17	9°25	16°17	26°45	26°27	28°17	8°55	7°33	5°47	20°57
S 26	2 16 40	2°24'59	1♂6	24°35	5°0	18°59	9°38	16°17	26°47	26°25	28°18	8°D54	7°30	5°54	20°59
S 27	2 20 36	3°25'00	15°7	25°50	6°13	19°42	9°51	16°17	26°49	26°24	28°19	8°54	7°27	6°0	21°1
M28	2 24 33	4°25'03	29°20	27°2	7°26	20°24	10°4	16°17	26°51	26°22	28°20	8°55	7°24	6°7	21°4
T 29	2 28 29	5°25'09	13♃44	28°13	8°39	21°7	10°17	16°R17	26°53	26°20	28°21	8°R55	7°21	6°14	21°6
W30	2 32 26	6°25'16	28°15	29°22	9°53	21°50	10°31	16°17	26°54	26°19	28°22	8°54	7°17	6°20	21°8
T 31	2 36 22	7♃25'25	12♂49	0♃29	11♃6	22♃33	10♃44	16♄17	26♂56	26°Y17	28♂23	8♃50	7♃14	6♃27	21♂11

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	3s 1	10n28	0n33	7s 7	0n 5	12s58	0n 2	12s 2	0n 1	12s 3	0n58	22n 4	0s31	13n38	0n42
W 2	3 24	3 32	0s49	7 50	0s 2	13 25	0s 0	12 17	0s 0	12 8	0 58	22 3	0 31	13 37	0 42
T 3	3 48	3s36	2 7	8 33	0 9	13 52	0 3	12 31	0 1	12 12	0 58	22 3	0 31	13 36	0 42
F 4	4 11	10 28	3 16	9 14	0 16	14 19	0 6	12 46	0 1	12 16	0 58	22 3	0 31	13 35	0 42
S 5	4 34	16 40	4 11	9 56	0 23	14 45	0 9	13 1	0 2	12 21	0 58	22 2	0 31	13 34	0 42
S 6	4 58	21 48	4 49	10 36	0 30	15 11	0 12	13 15	0 3	12 25	0 58	22 2	0 30	13 33	0 42
M 7	5 21	25 34	5 9	11 16	0 37	15 37	0 15	13 30	0 3	12 29	0 57	22 2	0 30	13 32	0 42
T 8	5 44	27 47	5 11	11 56	0 44	16 2	0 18	13 44	0 4	12 33	0 57	22 2	0 30	13 31	0 42
W 9	6 7	28 25	4 57	12 34	0 51	16 27	0 20	13 58	0 4	12 38	0 57	22 2	0 30	13 30	0 42
T 10	6 30	27 32	4 29	13 12	0 58	16 51	0 23	14 12	0 5	12 42	0 57	22 1	0 30	13 29	0 42
F 11	6 52	25 19	3 49	13 49	1 5	17 15	0 26	14 26	0 6	12 46	0 57	22 1	0 30	13 29	0 42
S 12	7 15	22 1	3 0	14 26	1 11	17 39	0 29	14 40	0 6	12 51	0 57	22 1	0 30	13 28	0 43
S 13	7 38	17 51	2 3	15 2	1 18	18 2	0 32	14 54	0 7	12 55	0 57	22 1	0 30	13 27	0 43
M14	8 0	13 1	1 2	15 36	1 25	18 25	0 35	15 8	0 8	12 59	0 57	22 1	0 30	13 26	0 43
T 15	8 23	7 44	0n 2	16 10	1 31	18 47	0 38	15 22	0 8	13 4	0 57	22 0	0 30	13 25	0 43
W16	8 45	2 9	1 6	16 44	1 38	19 9	0 41	15 35	0 9	13 8	0 57	22 0	0 30	13 24	0 43
T 17	9 7	3n34	2 7	17 16	1 44	19 30	0 44	15 49	0 9	13 12	0 57	22 0	0 30	13 23	0 43
F 18	9 29	9 14	3 4	17 47	1 50	19 51	0 47	16 2	0 10	13 16	0 56	22 0	0 30	13 23	0 43
S 19	9 51	14 38	3 53	18 18	1 56	20 11	0 49	16 15	0 11	13 21	0 56	22 0	0 30	13 22	0 43
S 20	10 13	19 30	4 31	18 47	2 1	20 31	0 52	16 28	0 11	13 25	0 56	22 0	0 30	13 21	0 43
M21	10 34	23 35	4 56	19 16	2 7	20 50	0 55	16 41	0 12	13 29	0 56	22 0	0 30	13 20	0 43
T 22	10 56	26 33	5 7	19 43	2 12	21 9	0 58	16 54	0 12	13 33	0 56	22 0	0 30	13 20	0 43
W23	11 17	28 8	5 1	20 10	2 17	21 27	1 1	17 7	0 13	13 38	0 56	22 0	0 30	13 19	0 43
T 24	11 38	28 5	4 39	20 35	2 22	21 45	1 3	17 19	0 14	13 42	0 56	22 0	0 30	13 18	0 43
F 25	11 59	26 21	4 1	20 59	2 26	22 1	1 6	17 32	0 14	13 46	0 56	22 0	0 30	13 18	0 43
S 26	12 20	23 1	3 9	21 23	2 30	22 18	1 9	17 44	0 15	13 50	0 56	22 0	0 30	13 17	0 43
S 27	12 40	18 18	2 4	21 44	2 34	22 33	1 12	17 56	0 15	13 55	0 56	22 0	0 30	13 16	0 43
M28	13 1	12 31	0 51	22 5	2 37	22 49	1 14	18 8	0 16	13 59	0 56	22 0	0 30	13 16	0 43
T 29	13 21	6 1	0s26	22 24	2 40	23 3	1 17	18 20	0 17	14 3	0 56	22 0	0 29	13 15	0 43
W30	13 41	0s51	1 42	22 42	2 43	23 17	1 19	18 32	0 17	14 7	0 56	22 0	0 29	13 14	0 43
T 31	14s 1	7s42	2s51	22s58	2s45	23s30	1s22	18s44	0s18	14s11	0s56	22n 0	0s29	13n14	0n43

Julian Day Number = 2345532.5, Delta T = 8.90 sec
 Ecliptic obliquity = 23°28'46, Nutation = 0°00'06
 Ayanamsha: Fagan/Bradley = 20°41'19, Lahiri = 19°48'19Greg. Calendar

SWISS EPHEMERIS for the year 1709

NOVEMBER 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	2 40 19	8♌25°36'	27♋20	1♃34	12♌19	23♌15	10♌57	16°R17	26♌58	26°R15	28♌24	8°R43	7♃11	6♃34	21♌13
S 2	2 44 15	9°25'50"	11♌42	2°35'	13°32'	23°58'	11°10'	16♋16	27° 0'	26°V14	28°24'	8♃34	7° 8'	6°40'	21°16'
S 3	2 48 12	10°26'05"	25°49'	3°34'	14°45'	24°41'	11°23'	16°16'	27° 1'	26°12'	28°25'	8°24'	7° 5'	6°47'	21°18'
M 4	2 52 9	11°26'22"	9♌34	4°29'	15°58'	25°24'	11°37'	16°15'	27° 3'	26°11'	28°26'	8°13'	7° 1'	6°53'	21°21'
T 5	2 56 5	12°26'40"	22°56'	5°20'	17°12'	26° 7'	11°50'	16°14'	27° 5'	26° 9'	28°27'	8° 3'	6°58'	7° 0'	21°24'
W 6	3 0 2	13°27'00"	5♌54	6° 7'	18°25'	26°51'	12° 3'	16°14'	27° 6'	26° 7'	28°28'	7°55'	6°55'	7° 7'	21°26'
T 7	3 3 58	14°27'22"	18°30'	6°49'	19°38'	27°34'	12°16'	16°13'	27° 7'	26° 6'	28°28'	7°49'	6°52'	7°13'	21°29'
F 8	3 7 55	15°27'45"	0♌45	7°25'	20°51'	28°17'	12°29'	16°11'	27° 9'	26° 4'	28°29'	7°46'	6°49'	7°20'	21°32'
S 9	3 11 51	16°28'09"	12°46'	7°56'	22° 4'	29° 0'	12°43'	16°10'	27°10'	26° 3'	28°30'	7°D45	6°46'	7°27'	21°35'
S 10	3 15 48	17°28'35"	24°38'	8°20'	23°17'	29°44'	12°56'	16° 9'	27°12'	26° 1'	28°30'	7°45'	6°42'	7°33'	21°38'
M 11	3 19 44	18°29'02"	6♃26	8°36'	24°30'	0♌27	13° 9'	16° 7'	27°13'	26° 0'	28°31'	7°R45	6°39'	7°40'	21°41'
T 12	3 23 41	19°29'30"	18°15'	8°R44	25°42'	1°11'	13°22'	16° 6'	27°14'	25°58'	28°32'	7°45'	6°36'	7°47'	21°45'
W 13	3 27 38	20°30'00"	0♃10	8°43'	26°55'	1°54'	13°35'	16° 4'	27°15'	25°57'	28°32'	7°43'	6°33'	7°53'	21°48'
T 14	3 31 34	21°30'31"	12°16'	8°32'	28° 8'	2°38'	13°49'	16° 3'	27°16'	25°55'	28°33'	7°38'	6°30'	8° 0'	21°51'
F 15	3 35 31	22°31'04"	24°37'	8°12'	29°21'	3°22'	14° 2'	16° 1'	27°17'	25°54'	28°33'	7°30'	6°26'	8° 7'	21°54'
S 16	3 39 27	23°31'37"	7♃14	7°40'	0♌34	4° 5'	14°15'	15°59'	27°18'	25°52'	28°34'	7°20'	6°23'	8°13'	21°58'
S 17	3 43 24	24°32'13"	20° 8'	6°59'	1°46'	4°49'	14°28'	15°57'	27°19'	25°51'	28°34'	7° 8'	6°20'	8°20'	22° 1'
M 18	3 47 20	25°32'50"	3♃18	6° 7'	2°59'	5°33'	14°41'	15°55'	27°20'	25°49'	28°34'	6°54'	6°17'	8°26'	22° 5'
T 19	3 51 17	26°33'28"	16°43'	5° 5'	4°11'	6°17'	14°54'	15°52'	27°21'	25°48'	28°35'	6°42'	6°14'	8°33'	22° 8'
W 20	3 55 14	27°34'08"	0♌20	3°55'	5°24'	7° 1'	15° 7'	15°50'	27°22'	25°47'	28°35'	6°30'	6°11'	8°40'	22°12'
T 21	3 59 10	28°34'49"	14° 7'	2°39'	6°37'	7°45'	15°21'	15°47'	27°22'	25°45'	28°35'	6°22'	6° 7'	8°46'	22°16'
F 22	4 3 7	29°35'32"	28° 0'	1°18'	7°49'	8°29'	15°34'	15°45'	27°23'	25°44'	28°36'	6°16'	6° 4'	8°53'	22°19'
S 23	4 7 3	0♌36'17"	11♌57	29♌56	9° 1'	9°13'	15°47'	15°42'	27°24'	25°42'	28°36'	6°13'	6° 1'	9° 0'	22°23'
S 24	4 11 0	1°37'03"	25°59'	28°35'	10°14'	9°57'	16° 0'	15°39'	27°24'	25°41'	28°36'	6°12'	5°58'	9° 6'	22°27'
M 25	4 14 56	2°37'51"	10♃ 3	27°17'	11°26'	10°41'	16°13'	15°37'	27°25'	25°40'	28°36'	6°12'	5°55'	9°13'	22°31'
T 26	4 18 53	3°38'40"	24°10'	26° 6'	12°38'	11°25'	16°26'	15°34'	27°25'	25°39'	28°37'	6°12'	5°52'	9°20'	22°35'
W 27	4 22 49	4°39'30"	8♌18	25° 3'	13°51'	12°10'	16°38'	15°31'	27°25'	25°37'	28°37'	6° 9'	5°48'	9°26'	22°39'
T 28	4 26 46	5°40'23"	22°26'	24°11'	15° 3'	12°54'	16°51'	15°27'	27°26'	25°36'	28°37'	6° 4'	5°45'	9°33'	22°43'
F 29	4 30 43	6°41'16"	6♌30	23°29'	16°15'	13°38'	17° 4'	15°24'	27°26'	25°35'	28°37'	5°56'	5°42'	9°40'	22°47'
S 30	4 34 39	7°42'11"	20♌27	22♌58	17♌27	14♌23	17♌17	15°22'	27°26'	25°V34	28°V37	5♃44	5♃39	9♃46	22♌51

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s20	14s 6	3s49	23s13	2s46	23s42	1s25	18s55	0s18	14s15	0n56	22n 0	0s29	13n13	0n43
S 2	14 39	19 40	4 31	23 27	2 47	23 54	1 27	19 6	0 19	14 20	0 55	22 0	0 29	13 13	0 43
S 3	14 59	24 2	4 56	23 39	2 48	24 5	1 29	19 17	0 20	14 24	0 55	22 0	0 29	13 12	0 43
M 4	15 17	26 55	5 4	23 49	2 47	24 16	1 32	19 28	0 20	14 28	0 55	22 0	0 29	13 12	0 43
T 5	15 36	28 11	4 54	23 57	2 46	24 25	1 34	19 39	0 21	14 32	0 55	22 0	0 29	13 11	0 43
W 6	15 54	27 49	4 29	24 3	2 44	24 35	1 37	19 50	0 21	14 36	0 55	22 1	0 29	13 11	0 43
T 7	16 12	26 1	3 51	24 8	2 41	24 43	1 39	20 0	0 22	14 40	0 55	22 1	0 29	13 10	0 44
F 8	16 30	23 1	3 4	24 10	2 37	24 50	1 41	20 11	0 23	14 44	0 55	22 1	0 29	13 10	0 44
S 9	16 47	19 4	2 9	24 10	2 32	24 57	1 43	20 21	0 23	14 48	0 55	22 1	0 29	13 9	0 44
S 10	17 5	14 25	1 9	24 8	2 26	25 4	1 45	20 31	0 24	14 52	0 55	22 1	0 29	13 9	0 44
M 11	17 21	9 17	0 7	24 3	2 18	25 9	1 47	20 41	0 24	14 56	0 55	22 2	0 29	13 9	0 44
T 12	17 38	3 48	0n56	23 55	2 9	25 14	1 49	20 50	0 25	15 0	0 55	22 2	0 29	13 8	0 44
W 13	17 54	1n51	1 56	23 45	1 59	25 18	1 51	21 0	0 25	15 4	0 55	22 2	0 29	13 8	0 44
T 14	18 10	7 30	2 52	23 31	1 47	25 21	1 53	21 9	0 26	15 8	0 55	22 2	0 29	13 8	0 44
F 15	18 26	12 59	3 41	23 15	1 33	25 23	1 55	21 18	0 27	15 12	0 55	22 3	0 29	13 7	0 44
S 16	18 41	18 3	4 21	22 55	1 18	25 25	1 56	21 27	0 27	15 16	0 55	22 3	0 29	13 7	0 44
S 17	18 56	22 25	4 48	22 31	1 1	25 26	1 58	21 35	0 28	15 20	0 55	22 3	0 28	13 7	0 44
M 18	19 11	25 45	5 0	22 5	0 43	25 26	2 0	21 44	0 28	15 24	0 55	22 4	0 28	13 6	0 44
T 19	19 25	27 43	4 56	21 35	0 24	25 26	2 1	21 52	0 29	15 28	0 55	22 4	0 28	13 6	0 44
W 20	19 39	28 4	4 35	21 2	0 4	25 24	2 2	22 0	0 29	15 32	0 55	22 4	0 28	13 6	0 44
T 21	19 53	26 41	3 58	20 28	0n16	25 22	2 4	22 8	0 30	15 35	0 55	22 5	0 28	13 6	0 44
F 22	20 6	23 39	3 7	19 51	0 37	25 20	2 5	22 15	0 31	15 39	0 55	22 5	0 28	13 6	0 44
S 23	20 19	19 14	2 4	19 15	0 57	25 16	2 6	22 23	0 31	15 43	0 55	22 5	0 28	13 5	0 44
S 24	20 31	13 43	0 54	18 39	1 16	25 12	2 7	22 30	0 32	15 47	0 55	22 6	0 28	13 5	0 44
M 25	20 43	7 30	0s20	18 4	1 33	25 7	2 8	22 37	0 32	15 50	0 55	22 6	0 28	13 5	0 44
T 26	20 55	0 54	1 33	17 32	1 49	25 1	2 9	22 44	0 33	15 54	0 55	22 6	0 28	13 5	0 44
W 27	21 6	5s45	2 41	17 4	2 3	24 55	2 10	22 50	0 33	15 58	0 55	22 7	0 28	13 5	0 44
T 28	21 17	12 7	3 38	16 40	2 15	24 48	2 11	22 57	0 34	16 2	0 55	22 7	0 28	13 5	0 44
F 29	21 28	17 49	4 22	16 20	2 25	24 40	2 11	23 3	0 34	16 5	0 55	22 8	0 28	13 5	0 44
S 30	21s38	22s32	4s50	16s 6	2n32	24s31	2s12	23s 9	0s35	16s 9	0n55	22n 8	0s28	13n 5	0n45

Julian Day Number = 2345563.5, Delta T = 8.90 sec
 Ecliptic obliquity = 23°28'46", Nutation = 0°00'05"
 Ayanamsha: Fagan/Bradley = 20°41'23", Lahiri = 19°48'23"Greg. Calendar

SWISS EPHEMERIS for the year 1709

DECEMBER 1709

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♄	♃	♅	♁	♁	♁	♁	♁	♁
S 1	4 38 36	8♂43'07	4♂12	22°R40	18♂39	15♂ 8	17♂30	15°R17	27♂26	25°R33	28°R37	5°R32	5♂36	9♂53	22♂55
M 2	4 42 32	9°44'04	17°42	22°D32	19°51	15°52	17°43	15♂14	27°26	25°Y32	28♂37	5♂18	5°32	10° 0	23° 0
T 3	4 46 29	10°45'02	0♂53	22♂35	21° 3	16°37	17°55	15°10	27°R26	25°31	28°37	5° 5	5°29	10° 6	23° 4
W 4	4 50 25	11°46'01	13°45	22°47	22°15	17°21	18° 8	15° 7	27°26	25°29	28°37	4°55	5°26	10°13	23° 8
T 5	4 54 22	12°47'01	26°17	23° 9	23°27	18° 6	18°21	15° 3	27°26	25°28	28°37	4°47	5°23	10°19	23°12
F 6	4 58 18	13°48'02	8♂32	23°39	24°38	18°51	18°33	14°59	27°26	25°27	28°36	4°41	5°20	10°26	23°17
S 7	5 2 15	14°49'03	20°33	24°16	25°50	19°36	18°46	14°55	27°26	25°26	28°36	4°39	5°17	10°33	23°21
S 8	5 6 12	15°50'04	2♂25	25° 0	27° 2	20°21	18°58	14°51	27°26	25°26	28°36	4°D38	5°13	10°39	23°26
M 9	5 10 8	16°51'06	14°12	25°50	28°13	21° 6	19°11	14°47	27°25	25°25	28°36	4°R38	5°10	10°46	23°30
T 10	5 14 5	17°52'09	26° 1	26°44	29°24	21°51	19°23	14°43	27°25	25°24	28°36	4°38	5° 7	10°53	23°35
W 11	5 18 1	18°53'12	7°Y57	27°43	0♂36	22°36	19°36	14°39	27°25	25°23	28°35	4°36	5° 4	10°59	23°39
T 12	5 21 58	19°54'16	20° 5	28°46	1°47	23°21	19°48	14°35	27°24	25°22	28°35	4°32	5° 1	11° 6	23°44
F 13	5 25 54	20°55'20	2♂30	29°53	2°58	24° 6	20° 0	14°31	27°24	25°21	28°35	4°26	4°58	11°13	23°49
S 14	5 29 51	21°56'24	15°15	1♂ 2	4° 9	24°51	20°13	14°26	27°23	25°20	28°34	4°17	4°54	11°19	23°53
S 15	5 33 47	22°57'29	28°22	2°14	5°20	25°36	20°25	14°22	27°22	25°20	28°34	4° 6	4°51	11°26	23°58
M 16	5 37 44	23°58'35	11♂51	3°28	6°31	26°22	20°37	14°17	27°22	25°19	28°33	3°54	4°48	11°33	24° 3
T 17	5 41 41	24°59'40	25°39	4°45	7°42	27° 7	20°49	14°13	27°21	25°18	28°33	3°42	4°45	11°39	24° 7
W 18	5 45 37	26° 0'47	9♂42	6° 3	8°52	27°52	21° 1	14° 8	27°20	25°18	28°32	3°31	4°42	11°46	24°12
T 19	5 49 34	27° 1'54	23°56	7°22	10° 3	28°38	21°13	14° 4	27°19	25°17	28°32	3°23	4°39	11°53	24°17
F 20	5 53 30	28° 3'01	8♂15	8°43	11°13	29°23	21°25	13°59	27°18	25°17	28°31	3°18	4°35	11°59	24°22
S 21	5 57 27	29° 4'09	22°35	10° 5	12°23	0♂ 9	21°37	13°54	27°17	25°16	28°31	3°16	4°32	12° 6	24°27
S 22	6 1 23	0♂ 5'18	6♂51	11°29	13°33	0°54	21°48	13°50	27°16	25°15	28°30	3°D15	4°29	12°12	24°32
M 23	6 5 20	1° 6'27	21° 2	12°53	14°44	1°40	22° 0	13°45	27°15	25°15	28°29	3°16	4°26	12°19	24°37
T 24	6 9 16	2° 7'36	5♂ 6	14°18	15°53	2°25	22°12	13°40	27°14	25°15	28°29	3°R16	4°23	12°26	24°42
W 25	6 13 13	3° 8'46	19° 2	15°44	17° 3	3°11	22°23	13°35	27°13	25°14	28°28	3°15	4°19	12°32	24°47
T 26	6 17 10	4° 9'57	2♂51	17°10	18°13	3°57	22°35	13°30	27°12	25°14	28°27	3°11	4°16	12°39	24°52
F 27	6 21 6	5°11'08	16°31	18°37	19°22	4°42	22°46	13°26	27°11	25°13	28°26	3° 5	4°13	12°46	24°57
S 28	6 25 3	6°12'19	0♂ 1	20° 5	20°32	5°28	22°58	13°21	27° 9	25°13	28°26	2°57	4°10	12°52	25° 2
S 29	6 28 59	7°13'31	13°20	21°34	21°41	6°14	23° 9	13°16	27° 8	25°13	28°25	2°47	4° 7	12°59	25° 7
M 30	6 32 56	8°14'43	26°26	23° 2	22°50	7° 0	23°20	13°11	27° 7	25°13	28°24	2°37	4° 4	13° 6	25°12
T 31	6 36 52	9♂15'55	9♂18	24♂32	23♂59	7♂46	23♂31	13♂ 6	27♂ 5	25°Y12	28♂23	2♂27	4♂ 0	13♂12	25♂17

Day	☉	☽	♀	♁	♂	♄	♃	♅	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s48	25s56	5s 0	15s56	2n37	24s22	2s12	23s14	0s35	16s12	0n55	22n 9	0s28	13n 5	0n45
M 2	21 57	27 46	4 53	15 51	2 41	24 12	2 13	23 20	0 36	16 16	0 55	22 9	0 28	13 5	0 45
T 3	22 6	27 59	4 31	15 50	2 42	24 1	2 13	23 25	0 37	16 20	0 55	22 10	0 27	13 5	0 45
W 4	22 14	26 40	3 55	15 53	2 42	23 50	2 13	23 30	0 37	16 23	0 55	22 10	0 27	13 5	0 45
T 5	22 22	24 0	3 8	15 59	2 41	23 38	2 13	23 34	0 38	16 27	0 55	22 11	0 27	13 5	0 45
F 6	22 30	20 18	2 14	16 9	2 39	23 25	2 13	23 39	0 38	16 30	0 55	22 11	0 27	13 5	0 45
S 7	22 37	15 50	1 14	16 21	2 36	23 12	2 13	23 43	0 39	16 33	0 55	22 12	0 27	13 5	0 45
S 8	22 43	10 49	0 12	16 36	2 31	22 58	2 13	23 47	0 39	16 37	0 55	22 12	0 27	13 5	0 45
M 9	22 50	5 27	0n51	16 52	2 26	22 43	2 13	23 50	0 40	16 40	0 55	22 13	0 27	13 5	0 45
T 10	22 55	0n 7	1 51	17 11	2 21	22 28	2 12	23 54	0 40	16 44	0 55	22 13	0 27	13 6	0 45
W 11	23 1	5 43	2 47	17 30	2 15	22 12	2 12	23 57	0 41	16 47	0 55	22 14	0 27	13 6	0 45
T 12	23 6	11 12	3 37	17 50	2 8	21 55	2 11	24 0	0 41	16 50	0 55	22 14	0 27	13 6	0 45
F 13	23 10	16 23	4 17	18 11	2 1	21 38	2 10	24 2	0 42	16 54	0 55	22 15	0 27	13 6	0 45
S 14	23 14	20 59	4 46	18 32	1 54	21 21	2 9	24 5	0 42	16 57	0 55	22 15	0 27	13 6	0 45
S 15	23 17	24 42	5 0	18 54	1 47	21 3	2 8	24 7	0 43	17 0	0 55	22 16	0 26	13 7	0 45
M 16	23 20	27 11	4 59	19 16	1 39	20 44	2 7	24 9	0 43	17 3	0 55	22 16	0 26	13 7	0 45
T 17	23 23	28 5	4 40	19 37	1 31	20 25	2 6	24 10	0 44	17 6	0 55	22 17	0 26	13 7	0 45
W 18	23 25	27 11	4 5	19 59	1 23	20 5	2 5	24 12	0 44	17 10	0 55	22 18	0 26	13 8	0 45
T 19	23 27	24 31	3 13	20 20	1 16	19 44	2 3	24 13	0 45	17 13	0 55	22 18	0 26	13 8	0 45
F 20	23 28	20 18	2 9	20 41	1 8	19 24	2 2	24 14	0 45	17 16	0 55	22 19	0 26	13 8	0 45
S 21	23 29	14 54	0 57	21 1	1 0	19 2	2 0	24 14	0 46	17 19	0 55	22 19	0 26	13 9	0 45
S 22	23 29	8 43	0s19	21 21	0 52	18 40	1 59	24 15	0 46	17 22	0 55	22 20	0 26	13 9	0 45
M 23	23 28	2 8	1 33	21 39	0 44	18 18	1 57	24 15	0 46	17 25	0 55	22 20	0 26	13 9	0 46
T 24	23 28	4s30	2 42	21 58	0 36	17 55	1 55	24 14	0 47	17 28	0 55	22 21	0 26	13 10	0 46
W 25	23 27	10 51	3 39	22 15	0 28	17 32	1 53	24 14	0 47	17 31	0 55	22 21	0 26	13 10	0 46
T 26	23 25	16 36	4 24	22 31	0 20	17 9	1 50	24 13	0 48	17 34	0 55	22 22	0 25	13 11	0 46
F 27	23 23	21 28	4 52	22 47	0 13	16 45	1 48	24 12	0 48	17 36	0 55	22 23	0 25	13 11	0 46
S 28	23 20	25 9	5 5	23 1	0 5	16 20	1 46	24 11	0 49	17 39	0 55	22 23	0 25	13 12	0 46
S 29	23 17	27 24	5 0	23 15	0s 2	15 56	1 43	24 9	0 49	17 42	0 55	22 24	0 25	13 12	0 46
M 30	23 13	28 5	4 39	23 27	0 9	15 30	1 40	24 7	0 50	17 45	0 55	22 25	0 25	13 13	0 46
T 31	23s 9	27s13	4s 5	23s39	0s17	15s 5	1s37	24s 5	0s50	17s47	0n55	22n25	0s25	13n13	0n46

Julian Day Number = 2345593.5, Delta T = 8.90 sec
 Ecliptic obliquity = 23°28'45", Nutation = 0°00'06"
 Ayanamsha: Fagan/Bradley = 20°41'27", Lahiri = 19°48'27"Greg. Calendar