

SWISS EPHEMERIS for the year 1648

JANUARY 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	6 40 52	10♁19'53	16♁54	21°R 3	4♁ 5	17♁ 3	9°R28	25°R36	6♁55	11♁23	7°R34	3°R31	3♁ 6	10♁29	0°R15
T 2	6 44 48	11°21'04	28°45	20♁10	4°26	17°50	9♁27	25♁34	6°59	11°25	7°R33	3♁30	3° 2	10°36	0°R11
F 3	6 48 45	12°22'14	10°V42	19° 7	4°50	18°36	9°25	25°31	7° 2	11°27	7°32	3°D30	2°59	10°43	0° 7
S 4	6 52 41	13°23'23	22°49	17°57	5°15	19°23	9°23	25°29	7° 5	11°29	7°32	3°30	2°56	10°50	0° 3
S 5	6 56 38	14°24'32	5♁11	16°41	5°42	20°10	9°21	25°26	7° 8	11°31	7°31	3°31	2°53	10°56	29♁59
M 6	7 0 34	15°25'41	17°50	15°22	6°11	20°57	9°19	25°24	7°11	11°33	7°30	3°32	2°50	11° 3	29°54
T 7	7 4 31	16°26'49	0♁53	14° 2	6°41	21°44	9°17	25°22	7°14	11°35	7°29	3°33	2°47	11°10	29°50
W 8	7 8 28	17°27'56	14°19	12°44	7°13	22°30	9°14	25°20	7°17	11°37	7°28	3°34	2°43	11°16	29°46
T 9	7 12 24	18°29'03	28°10	11°30	7°46	23°17	9°12	25°18	7°20	11°39	7°27	3°R35	2°40	11°23	29°41
F 10	7 16 21	19°30'10	12♁24	10°22	8°21	24° 4	9° 9	25°16	7°23	11°41	7°26	3°34	2°37	11°30	29°37
S 11	7 20 17	20°31'16	26°56	9°22	8°57	24°51	9° 6	25°14	7°26	11°43	7°26	3°33	2°34	11°37	29°33
S 12	7 24 14	21°32'21	11♁41	8°30	9°34	25°38	9° 2	25°12	7°29	11°45	7°25	3°32	2°31	11°43	29°28
M13	7 28 10	22°33'26	26°31	7°48	10°13	26°25	8°59	25°11	7°32	11°46	7°24	3°29	2°27	11°50	29°24
T 14	7 32 7	23°34'30	11♁18	7°15	10°53	27°12	8°55	25° 9	7°35	11°48	7°23	3°26	2°24	11°57	29°19
W15	7 36 3	24°35'34	25°55	6°51	11°34	27°59	8°51	25° 8	7°38	11°50	7°22	3°24	2°21	12° 3	29°15
T 16	7 40 0	25°36'38	10♁17	6°37	12°16	28°46	8°47	25° 7	7°40	11°52	7°22	3°22	2°18	12°10	29°10
F 17	7 43 57	26°37'41	24°22	6°D31	12°59	29°33	8°43	25° 6	7°43	11°53	7°21	3°D21	2°15	12°17	29° 6
S 18	7 47 53	27°38'44	8♁ 7	6°34	13°44	0♁21	8°39	25° 5	7°46	11°55	7°20	3°22	2°12	12°24	29° 1
S 19	7 51 50	28°39'47	21°35	6°44	14°29	1° 8	8°34	25° 4	7°49	11°57	7°20	3°23	2° 8	12°30	28°57
M20	7 55 46	29°40'49	4♁45	7° 2	15°16	1°55	8°30	25° 3	7°51	11°59	7°19	3°25	2° 5	12°37	28°52
T 21	7 59 43	0♁41'50	17°39	7°26	16° 3	2°42	8°25	25° 3	7°54	12° 0	7°18	3°26	2° 2	12°44	28°48
W22	8 3 39	1°42'51	0♁21	7°55	16°51	3°29	8°20	25° 2	7°56	12° 2	7°18	3°R27	1°59	12°50	28°43
T 23	8 7 36	2°43'51	12°51	8°31	17°40	4°16	8°15	25° 2	7°59	12° 4	7°17	3°27	1°56	12°57	28°39
F 24	8 11 32	3°44'50	25°11	9°11	18°30	5° 4	8°10	25° 1	8° 1	12° 5	7°17	3°25	1°53	13° 4	28°34
S 25	8 15 29	4°45'48	7♁22	9°55	19°21	5°51	8° 4	25° 1	8° 4	12° 7	7°16	3°21	1°49	13°11	28°30
S 26	8 19 26	5°46'46	19°26	10°44	20°12	6°38	7°58	25°D 1	8° 6	12° 8	7°15	3°16	1°46	13°17	28°25
M27	8 23 22	6°47'42	1♁24	11°36	21° 4	7°25	7°53	25° 1	8° 8	12°10	7°15	3°10	1°43	13°24	28°21
T 28	8 27 19	7°48'36	13°17	12°32	21°57	8°13	7°47	25° 1	8°11	12°11	7°14	3° 3	1°40	13°31	28°16
W29	8 31 15	8°49'30	25° 8	13°31	22°50	9° 0	7°41	25° 1	8°13	12°13	7°14	2°57	1°37	13°37	28°12
T 30	8 35 12	9°50'22	6♁59	14°32	23°44	9°47	7°35	25° 2	8°15	12°14	7°14	2°51	1°33	13°44	28° 8
F 31	8 39 8	10♁51'13	18°V55	15♁36	24♁39	10♁35	7♁28	25♁ 2	8♁17	12♁15	7♁13	2♁47	1♁30	13♁51	28♁ 3

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	23s 5	9s51	5s 4	20s20	1n31	16s29	4n36	23s23	1s 0	9n 8	1n11	17n 9	2s 6	21s25	0n 5	20s44	1n29	10n57	10s48	23n26	23n27	12s 2	12n38	7s41
T 2	23 0	5 19	5 16	20 9	1 50	16 30	4 39	23 17	1 0	9 9	1 12	17 9	2 6	21 26	0 5	20 44	1 29	10 57	10 48	23 26	23 27	12 0	12 38	7 41
F 3	22 54	0 34	5 14	20 0	2 8	16 32	4 41	23 11	1 0	9 10	1 12	17 8	2 6	21 26	0 5	20 44	1 29	10 57	10 47	23 26	23 27	11 58	12 39	7 41
S 4	22 49	4n16	4 59	19 53	2 25	16 34	4 44	23 5	1 0	9 11	1 12	17 8	2 5	21 27	0 5	20 44	1 29	10 57	10 47	23 26	23 27	11 56	12 39	7 42
S 5	22 42	9 2	4 30	19 47	2 41	16 36	4 46	22 58	1 1	9 12	1 13	17 8	2 5	21 27	0 5	20 45	1 29	10 57	10 47	23 26	23 27	11 53	12 40	7 42
M 6	22 35	13 33	3 47	19 43	2 54	16 40	4 47	22 51	1 1	9 13	1 13	17 8	2 5	21 28	0 5	20 45	1 29	10 57	10 47	23 26	23 27	11 51	12 41	7 42
T 7	22 28	17 35	2 51	19 40	3 6	16 43	4 49	22 44	1 1	9 14	1 13	17 7	2 5	21 28	0 5	20 45	1 29	10 58	10 47	23 26	23 27	11 49	12 41	7 42
W 8	22 21	20 50	1 45	19 39	3 14	16 48	4 50	22 36	1 1	9 15	1 13	17 7	2 4	21 29	0 5	20 45	1 29	10 58	10 47	23 26	23 27	11 47	12 42	7 42
T 9	22 12	22 58	0 30	19 39	3 20	16 52	4 50	22 29	1 1	9 16	1 14	17 7	2 4	21 29	0 5	20 46	1 29	10 58	10 46	23 26	23 27	11 44	12 43	7 43
F 10	22 4 23	43 0n49	19 41	3 24	16 57	4 51	22 21	1 2	9 18	1 14	17 7	2 4	21 30	0 5	20 46	1 29	10 58	10 46	23 26	23 28	11 42	12 43	7 43	
S 11	21 55	22 52	2 6	19 44	3 25	17 3	4 51	22 13	1 2	9 19	1 14	17 7	2 4	21 30	0 5	20 46	1 29	10 58	10 46	23 26	23 28	11 40	12 44	7 43
S 12	21 45	20 26	3 15	19 49	3 25	17 8	4 51	22 4	1 2	9 21	1 14	17 6	2 3	21 31	0 5	20 46	1 29	10 58	10 46	23 26	23 28	11 37	12 45	7 43
M13	21 36	16 39	4 12	19 54	3 22	17 14	4 50	21 56	1 2	9 22	1 15	17 6	2 3	21 31	0 5	20 46	1 29	10 58	10 46	23 26	23 28	11 35	12 46	7 43
T 14	21 25	11 50	4 52	20 0	3 17	17 20	4 50	21 47	1 2	9 24	1 15	17 6	2 3	21 32	0 5	20 47	1 29	10 58	10 45	23 26	23 28	11 33	12 46	7 43
W15	21 15	6 24	5 12	20 7	3 11	17 27	4 49	21 38	1 3	9 25	1 15	17 6	2 3	21 32	0 5	20 47	1 29	10 58	10 45	23 26	23 28	11 31	12 47	7 43
T 16	21 4	0 43	5 13	20 15	3 4	17 33	4 47	21 28	1 3	9 27	1 15	17 6	2 2	21 33	0 5	20 47	1 29	10 58	10 45	23 27	23 28	11 28	12 48	7 43
F 17	20 52	4s54	4 54	20 23	2 56	17 40	4 46	21 18	1 3	9 29	1 16	17 6	2 2	21 33	0 5	20 47	1 29	10 58	10 45	23 27	23 28	11 26	12 49	7 43
S 18	20 40	10 9	4 19	20 32	2 47	17 47	4 45	21 9	1 3	9 31	1 16	17 6	2 2	21 34	0 5	20 47	1 29	10 58	10 44	23 27	23 28	11 24	12 50	7 43
S 19	20 28	14 49	3 30	20 41	2 38	17 54	4 43	20 58	1 3	9 33	1 16	17 6	2 1	21 34	0 5	20 48	1 29	10 59	10 44	23 26	23 28	11 21	12 51	7 43
M20	20 15	18 39	2 31	20 50	2 28	18 1	4 41	20 48	1 3	9 35	1 16	17 6	2 1	21 35	0 5	20 48	1 29	10 59	10 44	23 26	23 28	11 19	12 51	7 43
T 21	20 2 21	29 1	2 26	20 59	2 18	18 8	4 39	20 37	1 4	9 37	1 17	17 6	2 1	21 35	0 5	20 48	1 29	10 59	10 44	23 26	23 28	11 17	12 52	7 43
W22	19 49	23 12	0 17	21 7	2 8	18 15	4 36	20 27	1 4	9 39	1 17	17 7	2 1	21 35	0 5	20 48	1 29	10 59	10 44	23 26	23 28	11 14	12 53	7 43
T 23	19 35	23 43	0s51	21 16	1 57	18 22	4 34	20 16	1 4	9 41	1 17	17 7	2 0	21 36	0 5	20 48	1 29	10 59	10 43	23 26	23 28	11 12	12 54	7 43
F 24	19 21	23 3	1 56	21 24	1 46	18 29	4 31	20 4	1 4	9 43	1 17	17 7	2 0	21 36	0 5	20 49	1 29	10 59	10 43	23 26	23 28	11 10	12 55	7 43
S 25	19 7 21	17 2	2 55	21 31	1 36	18 36	4 28	19 53	1 4	9 46	1 18	17 7	2 0	21 37	0 5	20 49	1 29	10 59	10 43	23 27	23 28	11 7	12 56	7 43
S 26	18 52	18 35	3 45	21 38	1 25	18 43	4 25	19 41	1 4	9 48	1 18	17 7	1 59	21 37	0 5	20 49	1 29	10 59	10 43	23 27	23 28	11 5	12 57	7 43
M27	18 37	15 7	4 25	21 44	1 15	18 49	4 22	19 29	1 4	9 50	1 18	17 8	1 59	21 37	0 5	20 49	1 29	11 0	10 42	23 27	23 28	11 3	12 58	7 43
T 28	18 21	11 5	4 52	21 49	1 4	18 56	4 19	19 17	1 4	9 53	1 18	17 8	1 59	21 38	0 5	20 49	1 29	11 0	10 42	23 27	23 28	11 0	12 59	7 43
W29	18 5	6 38	5 8	21 54	0 54	19 2	4 16	19 5	1 4	9 55														

SWISS EPHEMERIS for the year 1648

FEBRUARY 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	8 43 5	11 ⁵² 02	0 ⁵⁹	16 ³⁴	25 ³⁴	11 ²²	7 ^{R22}	25 ³	8 ²⁰	12 ¹⁷	7 ^{R13}	2 ^{R44}	1 ²⁷	13 ⁵⁸	27 ^{R59}
S 2	8 47 1	12 ⁵² 50	13 ¹⁵	17 ⁵¹	26 ³⁰	12 ⁹	7 ¹⁵	25 ⁴	8 ²²	12 ¹⁸	7 ¹²	2 ^{D43}	1 ²⁴	14 ⁴	27 ⁵⁵
M 3	8 50 58	13 ⁵³ 37	25 ⁴⁹	19 ²	27 ²⁶	12 ⁵⁷	7 ⁹	25 ⁴	8 ²⁴	12 ¹⁹	7 ¹²	2 ⁴⁴	1 ²¹	14 ¹¹	27 ⁵⁰
T 4	8 54 55	14 ⁵⁴ 22	8 ⁴⁴	20 ¹⁴	28 ²³	13 ⁴⁴	7 ²	25 ⁵	8 ²⁶	12 ²¹	7 ¹²	2 ⁴⁶	1 ¹⁸	14 ¹⁸	27 ⁴⁶
W 5	8 58 51	15 ⁵⁵ 05	22 ⁶	21 ²⁸	29 ²⁰	14 ³¹	6 ⁵⁵	25 ⁶	8 ²⁸	12 ²²	7 ¹¹	2 ⁴⁷	1 ¹⁴	14 ²⁴	27 ⁴²
T 6	9 2 48	16 ⁵⁵ 47	5 ⁵⁵	22 ⁴⁴	0 ¹⁸	15 ¹⁹	6 ⁴⁸	25 ⁸	8 ³⁰	12 ²³	7 ¹¹	2 ^{R47}	1 ¹¹	14 ³¹	27 ³⁸
F 7	9 6 44	17 ⁵⁶ 27	20 ¹²	24 ¹	1 ¹⁶	16 ⁶	6 ⁴¹	25 ⁹	8 ³¹	12 ²⁴	7 ¹¹	2 ⁴⁶	1 ⁸	14 ³⁸	27 ³³
S 8	9 10 41	18 ⁵⁷ 06	4 ⁵⁵	25 ²⁰	2 ¹⁵	16 ⁵⁴	6 ³⁴	25 ¹⁰	8 ³³	12 ²⁶	7 ¹⁰	2 ⁴³	1 ⁵	14 ⁴⁵	27 ²⁹
S 9	9 14 37	19 ⁵⁷ 43	19 ⁵⁸	26 ⁴⁰	3 ¹⁴	17 ⁴¹	6 ²⁷	25 ¹²	8 ³⁵	12 ²⁷	7 ¹⁰	2 ³⁷	1 ²	14 ⁵¹	27 ²⁵
M 10	9 18 34	20 ⁵⁸ 18	5 ¹⁰	28 ¹	4 ¹⁴	18 ²⁸	6 ²⁰	25 ¹³	8 ³⁷	12 ²⁸	7 ¹⁰	2 ³⁰	0 ⁵⁹	14 ⁵⁸	27 ²¹
T 11	9 22 30	21 ⁵⁸ 53	20 ²²	29 ²⁴	5 ¹⁴	19 ¹⁶	6 ¹²	25 ¹⁵	8 ³⁸	12 ²⁹	7 ¹⁰	2 ²²	0 ⁵⁵	15 ⁵	27 ¹⁷
W 12	9 26 27	22 ⁵⁹ 25	5 ²⁴	0 ⁴⁸	6 ¹⁵	20 ³	6 ⁵	25 ¹⁷	8 ⁴⁰	12 ³⁰	7 ⁹	2 ¹⁵	0 ⁵²	15 ¹¹	27 ¹⁴
T 13	9 30 24	23 ⁵⁹ 57	20 ⁶	2 ¹³	7 ¹⁵	20 ⁵¹	5 ⁵⁷	25 ¹⁹	8 ⁴¹	12 ³¹	7 ⁹	2 ⁸	0 ⁴⁹	15 ¹⁸	27 ¹⁰
F 14	9 34 20	25 ⁰ 27	4 ¹²	3 ³⁹	8 ¹⁷	21 ³⁸	5 ⁵⁰	25 ²¹	8 ⁴³	12 ³²	7 ⁹	2 ⁴	0 ⁴⁶	15 ²⁵	27 ⁶
S 15	9 38 17	26 ⁰ 56	18 ¹⁵	5 ⁶	9 ¹⁸	22 ²⁵	5 ⁴²	25 ²³	8 ⁴⁴	12 ³³	7 ⁹	2 ²	0 ⁴³	15 ³²	27 ²
S 16	9 42 13	27 ¹ 23	1 ⁴¹	6 ³⁴	10 ²⁰	23 ¹³	5 ³⁴	25 ²⁵	8 ⁴⁶	12 ³⁴	7 ⁹	2 ^{D 2}	0 ³⁹	15 ³⁸	26 ⁵⁹
M 17	9 46 10	28 ¹ 50	14 ⁴⁴	8 ³	11 ²²	24 ⁰	5 ²⁷	25 ²⁸	8 ⁴⁷	12 ³⁵	7 ⁹	2 ³	0 ³⁶	15 ⁴⁵	26 ⁵⁵
T 18	9 50 6	29 ² 15	27 ²⁷	9 ³⁴	12 ²⁵	24 ⁴⁸	5 ¹⁹	25 ³⁰	8 ⁴⁹	12 ³⁶	7 ⁹	2 ^{R 4}	0 ³³	15 ⁵²	26 ⁵²
W 19	9 54 3	0 ¹ 38	9 ⁵⁴	11 ⁵	13 ²⁸	25 ³⁵	5 ¹¹	25 ³³	8 ⁵⁰	12 ³⁷	7 ⁹	2 ⁴	0 ³⁰	15 ⁵⁹	26 ⁴⁸
T 20	9 57 59	1 ³ 01	22 ¹⁰	12 ³⁷	14 ³¹	26 ²²	5 ³	25 ³⁵	8 ⁵¹	12 ³⁷	7 ^{D 9}	2 ¹	0 ²⁷	16 ⁵	26 ⁴⁵
F 21	10 1 56	2 ³ 21	4 ¹⁶	14 ¹¹	15 ³⁴	27 ¹⁰	4 ⁵⁵	25 ³⁸	8 ⁵²	12 ³⁸	7 ⁹	1 ⁵⁷	0 ²⁴	16 ¹²	26 ⁴¹
S 22	10 5 53	3 ³ 40	16 ¹⁶	15 ⁴⁵	16 ³⁸	27 ⁵⁷	4 ⁴⁸	25 ⁴¹	8 ⁵³	12 ³⁹	7 ⁹	1 ⁴⁹	0 ²⁰	16 ¹⁹	26 ³⁸
S 23	10 9 49	4 ³ 57	28 ¹²	17 ²¹	17 ⁴²	28 ⁴⁴	4 ⁴⁰	25 ⁴⁴	8 ⁵⁴	12 ³⁹	7 ⁹	1 ³⁹	0 ¹⁷	16 ²⁵	26 ³⁵
M 24	10 13 46	5 ⁴ 12	10 ¹ 6	18 ⁵⁷	18 ⁴⁶	29 ³²	4 ³²	25 ⁴⁷	8 ⁵⁵	12 ⁴⁰	7 ⁹	1 ²⁷	0 ¹⁴	16 ³²	26 ³²
T 25	10 17 42	6 ⁴ 26	21 ⁵⁸	20 ³⁵	19 ⁵¹	0 ¹ 9	4 ²⁴	25 ⁵⁰	8 ⁵⁶	12 ⁴¹	7 ⁹	1 ¹⁴	0 ¹¹	16 ³⁹	26 ²⁹
W 26	10 21 39	7 ⁴ 38	3 ¹ 50	22 ¹³	20 ⁵⁵	1 ⁷	4 ¹⁶	25 ⁵⁴	8 ⁵⁷	12 ⁴¹	7 ⁹	1 ¹	0 ⁸	16 ⁴⁶	26 ²⁶
T 27	10 25 35	8 ⁴ 47	15 ⁴³	23 ⁵³	22 ⁰	1 ⁵⁴	4 ⁸	25 ⁵⁷	8 ⁵⁸	12 ⁴²	7 ⁹	0 ⁵⁰	0 ⁴	16 ⁵²	26 ²³
F 28	10 29 32	9 ⁴ 55	27 ⁴¹	25 ³³	23 ⁶	2 ⁴¹	4 ⁰	26 ⁰	8 ⁵⁹	12 ⁴²	7 ⁹	0 ⁴⁰	0 ¹	16 ⁵⁹	26 ²⁰
S 29	10 33 28	10 ¹ 51	9 ⁴⁶	27 ¹⁵	24 ¹¹	3 ¹ 29	3 ¹ 53	26 ³ 4	9 ¹ 0	12 ⁴³	7 ¹¹ 10	0 ³³	29 ¹ 58	17 ¹ 6	26 ¹⁸

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	17s16	7n33	4s34	22s 2	0n25	19s20	4n 5	18s26	1s 5	10n 3	1n19	17n10	1s58	21s39	0n 5	20s50	1n29	11n 1	10s41	23n27	23n29	10s51	13n 3	7s42
S 2	16 59 12	5 3 56	22 2	0 15	19 25	4 1	18 13	1 5	10 5	1 19	17 10	1 57	21 39	0 5	20 50	1 30	11 1	10 41	23 27	23 29	10 48	13 4	7 42	
M 3	16 41 16	13 3 7	22 2	0 6	19 30	3 58	18 0	1 5	10 8	1 19	17 10	1 57	21 40	0 5	20 50	1 30	11 1	10 41	23 27	23 29	10 46	13 5	7 42	
T 4	16 24 19	43 2 7	22 0	0s 3	19 35	3 54	17 46	1 5	10 11	1 20	17 11	1 57	21 40	0 5	20 50	1 30	11 1	10 40	23 27	23 29	10 44	13 6	7 41	
W 5	16 6 22	17 0 58	21 58	0 12	19 40	3 49	17 32	1 5	10 13	1 20	17 11	1 57	21 40	0 5	20 50	1 30	11 1	10 40	23 27	23 29	10 41	13 7	7 41	
T 6	15 47 23	38 0n17	21 54	0 20	19 44	3 45	17 18	1 5	10 16	1 20	17 12	1 56	21 41	0 5	20 50	1 30	11 1	10 40	23 27	23 29	10 39	13 8	7 41	
F 7	15 29 23	29 1 33	21 49	0 28	19 48	3 41	17 4	1 5	10 19	1 20	17 13	1 56	21 41	0 5	20 51	1 30	11 2	10 40	23 27	23 29	10 37	13 9	7 41	
S 8	15 10 21	44 2 45	21 42	0 36	19 51	3 37	16 50	1 5	10 22	1 20	17 13	1 56	21 41	0 5	20 51	1 30	11 2	10 39	23 27	23 29	10 34	13 10	7 40	
S 9	14 51 18	26 3 46	21 35	0 44	19 54	3 32	16 36	1 5	10 24	1 20	17 14	1 56	21 42	0 5	20 51	1 30	11 2	10 39	23 28	23 29	10 32	13 11	7 40	
M 10	14 32 13	52 4 33	21 26	0 51	19 57	3 28	16 21	1 5	10 27	1 21	17 14	1 55	21 42	0 5	20 51	1 30	11 2	10 39	23 28	23 29	10 29	13 13	7 40	
T 11	14 12 8	25 5 0	21 16	0 59	20 0	3 23	16 6	1 5	10 30	1 21	17 15	1 55	21 42	0 5	20 51	1 30	11 3	10 39	23 28	23 29	10 27	13 14	7 39	
W 12	13 53 2	32 5 6	21 5	1 5	20 2	3 19	15 51	1 5	10 33	1 21	17 16	1 55	21 42	0 5	20 51	1 30	11 3	10 38	23 28	23 29	10 25	13 15	7 39	
T 13	13 33 3	s22 4 52	20 52	1 12	20 3	3 14	15 36	1 5	10 36	1 21	17 17	1 54	21 43	0 5	20 51	1 30	11 3	10 38	23 28	23 29	10 22	13 16	7 39	
F 14	13 13 8	56 4 20	20 38	1 18	20 4	3 10	15 21	1 5	10 39	1 21	17 17	1 54	21 43	0 5	20 51	1 30	11 3	10 38	23 28	23 29	10 20	13 17	7 38	
S 15	12 52 13	53 3 33	20 23	1 24	20 5	3 5	15 5	1 5	10 42	1 21	17 18	1 54	21 43	0 5	20 51	1 30	11 4	10 38	23 28	23 29	10 17	13 18	7 38	
S 16	12 32 18	0 2 36	20 7	1 29	20 5	3 0	14 50	1 5	10 45	1 21	17 19	1 54	21 43	0 5	20 51	1 30	11 4	10 37	23 28	23 29	10 15	13 19	7 37	
M 17	12 11 21	5 1 32	19 49	1 35	20 5	2 55	14 34	1 5	10 48	1 22	17 20	1 53	21 44	0 5	20 51	1 30	11 4	10 37	23 28	23 29	10 13	13 20	7 37	
T 18	11 50 23	3 0 25	19 29	1 40	20 4	2 51	14 18	1 5	10 51	1 22	17 21	1 53	21 44	0 5	20 52	1 30	11 4	10 37	23 28	23 29	10 10	13 21	7 36	
W 19	11 29 23	49 0s42	19 9	1 44	20 3	2 46	14 2	1 5	10 54	1 22	17 21	1 53	21 44	0 5	20 52	1 30	11 5	10 37	23 28	23 29	10 8	13 22	7 36	
T 20	11 7 23	23 1 45	18 47	1 48	20 2	2 41	13 46	1 5	10 57	1 22	17 22	1 52	21 44	0 5	20 52	1 30	11 5	10 36	23 28	23 29	10 5	13 23	7 36	
F 21	10 46 21	52 2 43	18 24	1 52	20 0	2 36	13 29	1 4	11 0	1 22	17 23	1 52	21 44	0 5	20 52	1 30	11 5	10 36	23 28	23 29	10 3	13 24	7 35	
S 22	10 24 19	22 3 33	17 59	1 56	19 57	2 31	13 13	1 4	11 3	1 22	17 24	1 52	21 45	0 5	20 52	1 30	11 5	10 36	23 28	23 29	10 0	13 26	7 35	
S 23	10 2 16	4 4 13	17 33	1 59	19 54	2 26	12 56	1 4	11 6	1 22	17 25	1 52	21 45	0 5	20 52	1 30	11 6	10 35	23 28	23 29	9 58	13 27	7 34	
M 24	9 40 12	8 4 42	17 6	2 2	19 50	2 21	12 40	1 4	11 9	1 22	17 26	1 51	21 45											

SWISS EPHEMERIS for the year 1648

MARCH 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	10 37 25	11° 5'04"	22° 8' 1	28° 58	25° 16	4° 16	3° R45	26° 8	9° 0	12° 43	7° 10	0° R29	29° 55	17° 12	26° R15
M 2	10 41 21	12° 5'06"	4° 11 30	0° 42	26° 22	5° 3	3° 37	26° 12	9° 1	12° 44	7° 10	0° D28	29° 52	17° 19	26° 13
T 3	10 45 18	13° 5'05"	17° 19	2° 27	27° 28	5° 50	3° 29	26° 15	9° 1	12° 44	7° 10	0° D27	29° 49	17° 26	26° 10
W 4	10 49 15	14° 5'02"	0° 32	4° 13	28° 34	6° 38	3° 22	26° 19	9° 2	12° 45	7° 11	0° R28	29° 45	17° 33	26° 8
T 5	10 53 11	15° 4'57"	14° 11	6° 0	29° 41	7° 25	3° 14	26° 23	9° 2	12° 45	7° 11	0° 27	29° 42	17° 39	26° 6
F 6	10 57 8	16° 4'50"	28° 20	7° 49	0° 47	8° 12	3° 7	26° 28	9° 3	12° 45	7° 11	0° 24	29° 39	17° 46	26° 4
S 7	11 1 4	17° 4'40"	12° 57	9° 38	1° 54	8° 59	2° 59	26° 32	9° 3	12° 45	7° 12	0° 19	29° 36	17° 53	26° 1
S 8	11 5 1	18° 4'28"	27° 58	11° 29	3° 0	9° 47	2° 52	26° 36	9° 4	12° 46	7° 12	0° 11	29° 33	17° 59	26° 0
M 9	11 8 57	19° 4'14"	13° 15	13° 21	4° 7	10° 34	2° 44	26° 41	9° 4	12° 46	7° 12	0° 1	29° 30	18° 6	25° 58
T 10	11 12 54	20° 3'58"	28° 38	15° 14	5° 15	11° 21	2° 37	26° 45	9° 4	12° 46	7° 13	29° 50	29° 26	18° 13	25° 56
W 11	11 16 50	21° 3'41"	13° 53	17° 8	6° 22	12° 8	2° 30	26° 50	9° 4	12° 46	7° 13	29° 39	29° 23	18° 20	25° 54
T 12	11 20 47	22° 3'21"	28° 51	19° 4	7° 29	12° 55	2° 23	26° 54	9° 4	12° 46	7° 14	29° 30	29° 20	18° 26	25° 53
F 13	11 24 44	23° 2'59"	13° 24	21° 0	8° 37	13° 42	2° 16	26° 59	9° R 4	12° 46	7° 14	29° 23	29° 17	18° 33	25° 51
S 14	11 28 40	24° 2'36"	27° 27	22° 58	9° 45	14° 29	2° 9	27° 4	9° 4	12° R46	7° 15	29° 19	29° 14	18° 40	25° 50
S 15	11 32 37	25° 2'11"	11° 1	24° 56	10° 52	15° 16	2° 2	27° 9	9° 4	12° 46	7° 15	29° 17	29° 10	18° 47	25° 49
M 16	11 36 33	26° 1'44"	24° 7	26° 56	12° 0	16° 3	1° 56	27° 14	9° 4	12° 46	7° 16	29° 16	29° 7	18° 53	25° 47
T 17	11 40 30	27° 1'16"	6° 34 9	28° 56	13° 9	16° 50	1° 49	27° 19	9° 4	12° 46	7° 16	29° 16	29° 4	19° 0	25° 46
W 18	11 44 26	28° 0'45"	19° 13	0° 57	14° 17	17° 37	1° 43	27° 24	9° 4	12° 46	7° 17	29° 15	29° 1	19° 7	25° 45
T 19	11 48 23	29° 0'13"	1° 22	2° 58	15° 25	18° 24	1° 36	27° 29	9° 3	12° 46	7° 17	29° 13	28° 58	19° 13	25° 44
F 20	11 52 19	29° 59'39"	13° 22	5° 0	16° 34	19° 11	1° 30	27° 35	9° 3	12° 46	7° 18	29° 7	28° 55	19° 20	25° 44
S 21	11 56 16	0° 59'03"	25° 16	7° 2	17° 42	19° 58	1° 24	27° 40	9° 3	12° 46	7° 19	28° 58	28° 51	19° 27	25° 43
S 22	12 0 13	1° 58'26"	7° 7	9° 4	18° 51	20° 45	1° 18	27° 45	9° 2	12° 45	7° 19	28° 47	28° 48	19° 34	25° 42
M 23	12 4 9	2° 57'46"	18° 59	11° 6	20° 0	21° 32	1° 12	27° 51	9° 2	12° 45	7° 20	28° 34	28° 45	19° 40	25° 42
T 24	12 8 6	3° 57'04"	0° 51	13° 7	21° 9	22° 19	1° 7	27° 56	9° 1	12° 45	7° 21	28° 19	28° 42	19° 47	25° 42
W 25	12 12 2	4° 56'20"	12° 46	15° 7	22° 18	23° 5	1° 1	28° 2	9° 1	12° 44	7° 21	28° 5	28° 39	19° 54	25° 41
T 26	12 15 59	5° 55'34"	24° 46	17° 6	23° 27	23° 52	0° 56	28° 8	9° 0	12° 44	7° 22	27° 51	28° 35	20° 0	25° 41
F 27	12 19 55	6° 54'46"	6° 50	19° 3	24° 36	24° 39	0° 51	28° 14	8° 59	12° 44	7° 23	27° 40	28° 32	20° 7	25° D41
S 28	12 23 52	7° 53'56"	19° 2	20° 58	25° 45	25° 26	0° 45	28° 20	8° 59	12° 43	7° 23	27° 32	28° 29	20° 14	25° 41
S 29	12 27 48	8° 53'04"	1° 23	22° 51	26° 55	26° 12	0° 40	28° 26	8° 58	12° 43	7° 24	27° 27	28° 26	20° 21	25° 41
M 30	12 31 45	9° 52'09"	13° 57	24° 41	28° 4	26° 59	0° 36	28° 32	8° 57	12° 42	7° 25	27° 25	28° 23	20° 27	25° 42
T 31	12 35 42	10° 51'12"	26° 46	26° 58	29° 13	27° 46	0° 31	28° 38	8° 56	12° 42	7° 26	27° D24	28° 20	20° 34	25° 42

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	7s25	15n16	3s 9	13s53	2s10	19s18	1n51	10s57	1s 3	11n26	1n22	17n33	1s50	21s46	0n 5	20s52	1n31	11n 8	10s34	23n29	23n29	9s41	13n34	7s30
M 2	7 2 18 54	2 13 13 16	2 10 19 11	1 46 10 39	1 3 11 29	1 23 17 34	1 50 21 46	0 5 20 52	1 31 11 8	10 33 23 29	23 29	9 38 13 35	7 30											
T 3	6 40 21 44	1 9 12 38	2 9 19 3	1 41 10 22	1 3 11 32	1 23 17 35	1 49 21 46	0 5 20 52	1 31 11 8	10 33 23 29	23 29	9 36 13 36	7 29											
W 4	6 16 23 29	0n 0	11 58	2 8 18 55	1 36 10 4	1 3 11 34	1 23 17 36	1 49 21 46	0 5 20 52	1 31 11 9	10 33 23 29	23 29	9 33 13 37	7 28										
T 5	5 53 23 55	1 12 11 17	2 7 18 46	1 31 9 47	1 3 11 37	1 23 17 37	1 49 21 46	0 5 20 52	1 31 11 9	10 33 23 29	23 29	9 31 13 38	7 28											
F 6	5 30 22 51	2 22 10 35	2 5 18 37	1 27 9 29	1 3 11 40	1 23 17 38	1 49 21 46	0 5 20 52	1 31 11 9	10 32 23 29	23 29	9 29 13 39	7 27											
S 7	5 7 20 13	3 25 9 51	2 2 18 27	1 22 9 11	1 2 11 43	1 23 17 40	1 48 21 46	0 5 20 52	1 31 11 9	10 32 23 29	23 29	9 26 13 40	7 27											
S 8	4 43 16 11	4 15 9 7	1 59 18 17	1 17 8 53	1 2 11 45	1 23 17 41	1 48 21 46	0 5 20 52	1 31 11 10	10 32 23 29	23 29	9 24 13 41	7 26											
M 9	4 20 11 1	4 48 8 20	1 56 18 6	1 12 8 35	1 2 11 48	1 23 17 42	1 48 21 46	0 5 20 52	1 31 11 10	10 31 23 29	23 29	9 21 13 42	7 25											
T 10	3 57 5 8	5 0 7 33	1 52 17 54	1 7 8 17	1 2 11 51	1 23 17 43	1 48 21 46	0 5 20 52	1 31 11 10	10 31 23 29	23 29	9 19 13 43	7 25											
W 11	3 33 1s 1	4 51 6 44	1 47 17 43	1 2 7 58	1 2 11 53	1 23 17 45	1 47 21 46	0 5 20 52	1 31 11 11	10 31 23 29	23 29	9 16 13 44	7 24											
T 12	3 9 7 0	4 22 5 54	1 42 17 30	0 58 7 40	1 1 11 56	1 23 17 46	1 47 21 46	0 5 20 52	1 31 11 11	10 31 23 29	23 29	9 14 13 45	7 23											
F 13	2 46 12 26	3 37 5 3	1 37 17 17	0 53 7 22	1 1 11 58	1 22 17 47	1 47 21 46	0 5 20 52	1 31 11 11	10 30 23 29	23 29	9 11 13 46	7 23											
S 14	2 22 17 2	2 40 4 11	1 31 17 4	0 48 7 3	1 1 12 1	1 22 17 49	1 47 21 46	0 5 20 52	1 31 11 12	10 30 23 29	23 29	9 9 13 47	7 22											
S 15	1 59 20 34	1 35 3 18	1 24 16 50	0 44 6 45	1 1 12 3	1 22 17 50	1 46 21 46	0 5 20 52	1 31 11 12	10 30 23 29	23 29	9 6 13 48	7 21											
M 16	1 35 22 54	0 27 2 24	1 17 16 36	0 39 6 26	1 1 12 5	1 22 17 51	1 46 21 46	0 5 20 52	1 31 11 12	10 30 23 29	23 29	9 4 13 49	7 20											
T 17	1 11 23 58	0s40	1 29 1 9	16 21 0 34	6 8 1 0	12 8 1 22	17 53 1 46	21 46 0 5	20 52 1 31	11 13 10 29	23 29 23 29	9 1 13 49	7 20											
W 18	0 48 23 49	1 43 0 33	1 16 6 0	30 5 49	1 0 12 10	1 22 17 54	1 46 21 46	0 5 20 52	1 31 11 13	10 29 23 29	23 29	8 59 13 50	7 19											
T 19	0 24 22 30	2 41 0n23	0 52 15 50	0 26 5 31	1 0 12 12	1 22 17 55	1 46 21 46	0 5 20 52	1 32 11 13	10 29 23 29	23 29	8 56 13 51	7 18											
F 20	0 0 20 12	3 30 1 20	0 43 15 34	0 21 5 12	0 59 12 14	1 22 17 57	1 45 21 46	0 5 20 51	1 32 11 14	10 29 23 29	23 29	8 54 13 52	7 18											
S 21	0n24	17 2 4 10	2 18 0 33	15 17 0 17	4 53 0 59	12 16 1 22	17 58 1 45	21 46 0 5	20 51 1 32	11 14 10 28	23 29 23 29	8 51 13 53	7 17											
S 22	0 47 13 13	4 39 3 15	0 23 15 0	0 12 4 35	0 59 12 18	1 22 18 0	1 45 21 46	0 5 20 51	1 32 11 14	10 28 23 29	23 29	8 48 13 54	7 16											
M 23	1 11 8 54	4 55 4 13	0 12 14 43	0 8 4 16	0 59 12 21	1 22 18 1	1 45 21 46	0 5 20 51	1 32 11 15	10 28 23 29	23 29	8 46 13 54	7 15											
T 24	1 34 4 14	4 59 5 10	0 1 14 25	0 4 3 57	0 58 12 22	1 22 18 3	1 44 21 46	0 5 20 51	1 32 11 15	10 28 23 28	23 29	8 43 13 55	7 15											
W 25	1 58 0n36	4 50 6 7	0n10 14 7	0s 0 3 38	0 58 12 24	1 22 18 4	1 44 21 46	0 5 20 51	1 32 11 15	10 27 23 28	23 29	8 41 13 56	7 14											
T 26	2 21 5 27	4 28 7 4	0 22 13 48	0 4 3 19	0 58 12 26	1 22 18 5	1 44 21 46	0 5 20 51	1 32 11 16	10 27 23 28	23 29	8 38 13 57	7 13											
F 27	2 45 10 9	3 53 7 59	0 33 13 29	0 8 3 0	0 57 12 28	1 22 18 7	1 44 21 46	0 5 20 51	1 32 11 16	10 27 23 28	23 29	8 36 13 57	7 13											
S 28	3 8 14 30	3 8 8 54	0 45 13 9	0 12 2 42	0 57 12 30	1 21 18 8	1 44 21 46	0 5 20 51	1 32 11 16	10 27 23 28	23 29	8 33 13 58	7 12											
S 29	3 32 18 19	2 13 9 47	0 57 12 49	0 16 2 23	0 57 12 31	1 21 18 10	1 43 21 45	0 5 20 51	1 32 11 17	10 27 23 28	23 29	8 31 13 59	7 11											
M 30	3 55 21 21	1 11 10 38	1 8 12 29	0 20 2 4	0 56 12 33	1 21 18 11	1 43 21 45	0 5 20 51	1 32 11 17	10 26 23 28	23 29	8 28 14 0	7 10											
T 31	4n18	23n23	0s 3	11n28	1n20	12s 8	0s24	1s45	0s56	12n34	1n21	18n13	1s43	21s45	0n 5	20s50	1n32	11n18	10s26	23n28	23n28	8s26	14n 0	7s10

Julian Day Number = 2323039.5, Delta T = 48.13 sec
 Ecliptic obliquity = 23°29'07", Nutation = - 0°00'17"
 Ayanamsha: Fagan/Bradley = 19°49'46", Lahiri = 18°56'46"Greg. Calendar

SWISS EPHEMERIS for the year 1648

APRIL 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	12 39 38	11°50'13	9°55	28°11	0°23	28°32	0°27	28°44	8°55	12°R41	7°II27	27°R24	28°II16	20°41	25°542	
T 2	12 43 35	12°49'11	23°27	29°50	1°33	29°19	0°22	28°50	8°54	12°R41	7°28	27°II24	28°13	20°47	25°43	
F 3	12 47 31	13°48'08	7°24	18°25	2°42	0°18	0°18	28°56	8°53	12°40	7°28	27°22	28°10	20°54	25°44	
S 4	12 51 28	14°47'01	21°47	2°56	3°52	0°52	0°14	29° 2	8°52	12°39	7°29	27°18	28° 7	21° 1	25°44	
S 5	12 55 24	15°45'53	6°34	4°22	5° 2	1°38	0°11	29° 9	8°51	12°39	7°30	27°11	28° 4	21° 8	25°45	
M 6	12 59 21	16°44'42	21°38	5°43	6°12	2°24	0° 7	29°15	8°50	12°38	7°31	27° 2	28° 1	21°14	25°46	
T 7	13 3 17	17°43'29	6°51	6°58	7°22	3°11	0° 4	29°22	8°49	12°37	7°32	26°52	27°57	21°21	25°47	
W 8	13 7 14	18°42'13	22° 1	8° 9	8°32	3°57	0° 0	29°28	8°47	12°36	7°33	26°42	27°54	21°28	25°49	
T 9	13 11 11	19°40'56	7°0	9°14	9°42	4°43	29°57	29°35	8°46	12°36	7°34	26°33	27°51	21°35	25°50	
F 10	13 15 7	20°39'37	21°38	10°13	10°52	5°30	29°54	29°41	8°45	12°35	7°35	26°27	27°48	21°41	25°51	
S 11	13 19 4	21°38'17	5°48	11° 6	12° 3	6°16	29°52	29°48	8°43	12°34	7°36	26°22	27°45	21°48	25°53	
S 12	13 23 0	22°36'54	19°29	11°54	13°13	7° 2	29°49	29°55	8°42	12°33	7°37	26°21	27°41	21°55	25°54	
M13	13 26 57	23°35'30	2°34	12°36	14°23	7°48	29°47	0°II 2	8°40	12°32	7°38	26°D21	27°38	22° 1	25°56	
T 14	13 30 53	24°34'05	15°30	13°12	15°34	8°34	29°44	0° 8	8°39	12°31	7°39	26°21	27°35	22° 8	25°58	
W15	13 34 50	25°32'37	27°57	13°41	16°44	9°20	29°42	0°15	8°37	12°30	7°40	26°R22	27°32	22°15	26° 0	
T 16	13 38 46	26°31'08	10°8 7	14° 5	17°55	10° 6	29°41	0°22	8°36	12°29	7°41	26°21	27°29	22°22	26° 2	
F 17	13 42 43	27°29'37	22° 7	14°23	19° 6	10°52	29°39	0°29	8°34	12°28	7°42	26°17	27°26	22°28	26° 4	
S 18	13 46 40	28°28'05	4°8 0	14°35	20°16	11°38	29°38	0°36	8°33	12°27	7°43	26°12	27°22	22°35	26° 6	
S 19	13 50 36	29°26'30	15°51	14°41	21°27	12°24	29°36	0°43	8°31	12°26	7°44	26° 4	27°19	22°42	26° 8	
M20	13 54 33	0°24'55	27°42	14°R41	22°38	13°10	29°35	0°50	8°29	12°25	7°46	25°55	27°16	22°49	26°11	
T 21	13 58 29	1°23'17	9°38	14°36	23°49	13°56	29°34	0°58	8°27	12°24	7°47	25°45	27°13	22°55	26°13	
W22	14 2 26	2°21'38	21°38	14°26	24°59	14°41	29°34	1° 5	8°26	12°23	7°48	25°34	27°10	23° 2	26°16	
T 23	14 6 22	3°19'57	3°46	14°11	26°10	15°27	29°33	1°12	8°24	12°22	7°49	25°25	27° 7	23° 9	26°19	
F 24	14 10 19	4°18'14	16° 2	13°51	27°21	16°13	29°33	1°19	8°22	12°21	7°50	25°17	27° 3	23°15	26°21	
S 25	14 14 15	5°16'29	28°27	13°27	28°32	16°58	29°D32	1°26	8°20	12°19	7°51	25°11	27° 0	23°22	26°24	
S 26	14 18 12	6°14'42	11°II 2	12°59	29°43	17°44	29°33	1°34	8°18	12°18	7°53	25° 8	26°57	23°29	26°27	
M27	14 22 8	7°12'54	23°49	12°28	0°V54	18°29	29°33	1°41	8°16	12°17	7°54	25°D 7	26°54	23°36	26°30	
T 28	14 26 5	8°11'04	6°50	11°55	2° 5	19°15	29°33	1°48	8°14	12°16	7°55	25° 8	26°51	23°42	26°33	
W29	14 30 2	9° 9'12	20° 5	11°19	3°17	20° 0	29°34	1°56	8°12	12°14	7°56	25° 9	26°47	23°49	26°37	
T 30	14 33 58	10°8 7'17	3°II39	10°8 42	4°V28	20°V46	29°II34	2°II 3	8°10	12°13	7°II57	25°R10	26°II44	23°II56	26°540	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
W 1	4n41	24n12	1n 6	12n16	1n31	11s47	0s27	1s26	0s56	12n36	1n21	18n14	1s43	21s45	0n 5	20s50	1n32	11n18	10s26	23n28	23n28	8s23	14n 1	7s 9
T 2	5 4	23 38	2 13	13 1	1 42	11 26	0 31	1 7	0 55	12 37	1 21	18 16	1 43	21 45	0 5	20 50	1 32	11 18	10 26	23 28	23 28	8 21	14 2	7 8
F 3	5 27	21 36	3 15	13 45	1 52	11 4	0 34	0 48	0 55	12 39	1 21	18 18	1 42	21 45	0 5	20 50	1 32	11 19	10 25	23 28	23 28	8 18	14 2	7 7
S 4	5 50	18 9	4 6	14 26	2 2	10 42	0 38	0 30	0 55	12 40	1 21	18 19	1 42	21 45	0 5	20 50	1 32	11 19	10 25	23 27	23 28	8 15	14 3	7 7
S 5	6 13	13 30	4 43	15 4	2 12	10 19	0 41	0 11	0 54	12 41	1 20	18 21	1 42	21 44	0 5	20 50	1 32	11 19	10 25	23 27	23 28	8 13	14 3	7 6
M 6	6 36	7 56	5 1	15 39	2 20	9 57	0 45	0n 8	0 54	12 42	1 20	18 22	1 42	21 44	0 5	20 50	1 32	11 20	10 25	23 27	23 28	8 10	14 4	7 5
T 7	6 58	1 50	4 57	16 12	2 28	9 34	0 48	0 27	0 54	12 43	1 20	18 24	1 42	21 44	0 5	20 50	1 32	11 20	10 25	23 27	23 28	8 8	14 4	7 4
W 8	7 21	4s22	4 33	16 42	2 35	9 10	0 51	0 46	0 53	12 44	1 20	18 25	1 42	21 44	0 5	20 50	1 32	11 20	10 24	23 27	23 28	8 5	14 5	7 4
T 9	7 43	10 15	3 51	17 9	2 42	8 47	0 54	1 4	0 53	12 45	1 20	18 27	1 41	21 44	0 5	20 49	1 32	11 21	10 24	23 26	23 28	8 3	14 5	7 3
F 10	8 5	15 25	2 53	17 33	2 47	8 23	0 57	1 23	0 52	12 46	1 20	18 28	1 41	21 43	0 5	20 49	1 32	11 21	10 24	23 26	23 28	8 0	14 6	7 2
S 11	8 27	19 33	1 47	17 54	2 51	7 59	1 0	1 42	0 52	12 47	1 20	18 30	1 41	21 43	0 5	20 49	1 32	11 21	10 24	23 26	23 28	7 57	14 6	7 1
S 12	8 49	22 28	0 36	18 12	2 54	7 34	1 3	2 0	0 52	12 48	1 19	18 32	1 41	21 43	0 5	20 49	1 33	11 22	10 24	23 26	23 28	7 55	14 7	7 1
M13	9 11	24 1	0s34	18 27	2 57	7 10	1 6	2 19	0 51	12 49	1 19	18 33	1 41	21 43	0 5	20 49	1 33	11 22	10 23	23 26	23 28	7 52	14 7	7 0
T 14	9 32	24 15	1 40	18 39	2 58	6 45	1 8	2 38	0 51	12 49	1 19	18 35	1 41	21 43	0 5	20 49	1 33	11 22	10 23	23 26	23 28	7 50	14 8	6 59
W15	9 54	23 14	2 40	18 48	2 57	6 20	1 11	2 56	0 50	12 50	1 19	18 36	1 40	21 42	0 5	20 48	1 33	11 23	10 23	23 26	23 28	7 47	14 8	6 58
T 16	10 15	21 8	3 32	18 54	2 56	5 55	1 13	3 15	0 50	12 50	1 19	18 38	1 40	21 42	0 5	20 48	1 33	11 23	10 23	23 26	23 28	7 44	14 8	6 58
F 17	10 36	18 9	4 13	18 57	2 53	5 29	1 16	3 33	0 49	12 51	1 19	18 40	1 40	21 42	0 5	20 48	1 33	11 23	10 23	23 26	23 28	7 42	14 9	6 57
S 18	10 57	14 26	4 42	18 56	2 49	5 4	1 18	3 52	0 49	12 51	1 19	18 41	1 40	21 42	0 5	20 48	1 33	11 24	10 22	23 26	23 28	7 39	14 9	6 56
S 19	11 18	10 12	5 0	18 53	2 44	4 38	1 20	4 10	0 48	12 51	1 18	18 43	1 40	21 41	0 5	20 48	1 33	11 24	10 22	23 26	23 27	7 37	14 9	6 55
M20	11 38	5 34	5 4	18 47	2 38	4 12	1 23	4 28	0 48	12 52	1 18	18 44	1 40	21 41	0 5	20 48	1 33	11 24	10 22	23 25	23 27	7 34	14 10	6 55
T 21	11 59	0 43	4 56	18 38	2 30	3 45	1 25	4 46	0 48	12 52	1 18	18 46	1 39	21 41	0 5	20 47	1 33	11 25	10 22	23 25	23 27	7 31	14 10	6 54
W22	12 19	4n13	4 34	18 26	2 20	3 19	1 27	5 5	0 47	12 52	1 18	18 48	1 39	21 41	0 5	20 47	1 33	11 25	10 22	23 25	23 27	7 29	14 10	6 53
T 23	12 39	9 2	4 0	18 11	2 10	2 53	1 29	5 23	0 47	12 52	1 18	18 49	1 39	21 40	0 5	20 47	1 33	11 25	10 22	23 24	23 27	7 26	14 10	6 53
F 24	12 59	13 34	3 14	17 54	1 58	2 26	1 30	5 41	0 46	12 52	1 18	18 51	1 39	21 40	0 5	20 47	1 33	11 26	10 21	23 24	23 27	7 24	14 11	6 52
S 25	13 18	17 36	2 18	17 35	1 45	1 59	1 32	5 59	0 46	12 52	1 17	18 52	1 39	21 40	0 5	20 47	1 33	11 26	10 21	23 24	23 27	7 21	14 11	6 51
S 26	13 38	20 54	1 15	17 13	1 32	1 33	1 34	6 17	0 45	12 52	1 17	18 54	1 39	21 39	0 5	20 47	1 33	11 26	10 21	23 24	23 27	7 18	14 11	6 50
M27	13 57	23 13	0 7	16 50	1 17	1 6	1 35	6 34	0 45	12 51	1 17	18 56	1 39	21 39	0 5	20 46	1 33	11 27	10 21	23 24	23 27	7 16	14 11	6 50
T 28	14 16	24 21	1n 3	16 24	1 1	0 39	1 37	6 52	0 44	12 51	1 17	18 57	1 39	21 39	0 5	20 46	1 33	11 27	10 21	23 24	23 27	7 13	14 11	6 49
W29	14 34	24 8	2 11	15 58	0 45	0 12	1 38	7 10	0 44	12 51	1 17	18 59	1 38	21 38	0 5	20 46	1 33	11 27						

SWISS EPHEMERIS for the year 1648

MAY 1648 GC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	14 37 55	11♈ 5'21	17♎31	10♋R 5	5♊Y39	21♊Y31	29♏Ω35	2♉II11	8♋R 8	12♋R12	7♉II59	25♋R10	26♉II41	24♋R 2	26♋Ω43	
S 2	14 41 51	12° 3'23	1♎42	9♋Ω28	6°50	22°16	29°37	2°18	8♋R 6	12♋R11	8° 0	25♉II 8	26°38	24° 9	26°47	
S 3	14 45 48	13° 1'22	16°10	8°51	8° 1	23° 2	29°38	2°26	8° 4	12° 9	8° 1	25° 5	26°35	24°16	26°50	
M 4	14 49 44	13°59'20	0♉53	8°16	9°13	23°47	29°39	2°33	8° 1	12° 8	8° 2	25° 0	26°32	24°23	26°54	
T 5	14 53 41	14°57'16	15°43	7°42	10°24	24°32	29°41	2°41	7°59	12° 6	8° 4	24°54	26°28	24°29	26°58	
W 6	14 57 37	15°55'11	0♎34	7°11	11°35	25°17	29°43	2°48	7°57	12° 5	8° 5	24°48	26°25	24°36	27° 2	
T 7	15 1 34	16°53'03	15°16	6°43	12°47	26° 2	29°45	2°56	7°55	12° 4	8° 6	24°43	26°22	24°43	27° 6	
F 8	15 5 31	17°50'54	29°43	6°18	13°58	26°47	29°47	3° 4	7°52	12° 2	8° 8	24°40	26°19	24°50	27°10	
S 9	15 9 27	18°48'44	13♋48	5°57	15°10	27°32	29°49	3°11	7°50	12° 1	8° 9	24°38	26°16	24°56	27°14	
S 10	15 13 24	19°46'33	27°29	5°40	16°21	28°17	29°52	3°19	7°48	11°59	8°10	24°D37	26°13	25° 3	27°18	
M11	15 17 20	20°44'20	10♋45	5°27	17°33	29° 1	29°55	3°27	7°46	11°58	8°12	24°38	26° 9	25°10	27°22	
T 12	15 21 17	21°42'06	23°37	5°19	18°44	29°46	29°58	3°34	7°43	11°56	8°13	24°39	26° 6	25°16	27°27	
W13	15 25 13	22°39'51	6♋ 8	5°D15	19°56	0♋31	0♎ 1	3°42	7°41	11°55	8°14	24°41	26° 3	25°23	27°31	
T 14	15 29 10	23°37'34	18°22	5°15	21° 7	1°16	0° 4	3°50	7°38	11°53	8°16	24°R42	26° 0	25°30	27°35	
F 15	15 33 7	24°35'17	0♋24	5°20	22°19	2° 0	0° 7	3°58	7°36	11°52	8°17	24°42	25°57	25°37	27°40	
S 16	15 37 3	25°32'58	12°19	5°30	23°31	2°45	0°11	4° 5	7°34	11°50	8°18	24°41	25°53	25°43	27°45	
S 17	15 41 0	26°30'39	24°11	5°44	24°42	3°29	0°15	4°13	7°31	11°49	8°20	24°38	25°50	25°50	27°49	
M18	15 44 56	27°28'18	6♊ 5	6° 3	25°54	4°14	0°18	4°21	7°29	11°47	8°21	24°35	25°47	25°57	27°54	
T 19	15 48 53	28°25'56	18° 4	6°26	27° 6	4°58	0°23	4°29	7°26	11°46	8°22	24°30	25°44	26° 4	27°59	
W20	15 52 49	29°23'33	0♋10	6°53	28°18	5°42	0°27	4°36	7°24	11°44	8°24	24°26	25°41	26°10	28° 4	
T 21	15 56 46	0♎21'09	12°27	7°24	29°29	6°27	0°31	4°44	7°22	11°42	8°25	24°22	25°38	26°17	28° 9	
F 22	16 0 42	1°18'44	24°56	8° 0	0♋41	7°11	0°36	4°52	7°19	11°41	8°26	24°19	25°34	26°24	28°14	
S 23	16 4 39	2°16'18	7♉38	8°39	1°53	7°55	0°40	5° 0	7°17	11°39	8°28	24°17	25°31	26°30	28°19	
S 24	16 8 35	3°13'51	20°32	9°22	3° 5	8°39	0°45	5° 8	7°14	11°38	8°29	24°D16	25°28	26°37	28°25	
M25	16 12 32	4°11'23	3♋40	10° 9	4°17	9°23	0°50	5°15	7°12	11°36	8°30	24°17	25°25	26°44	28°30	
T 26	16 16 29	5° 8'54	17° 1	11° 0	5°29	10° 7	0°55	5°23	7° 9	11°35	8°32	24°18	25°22	26°51	28°35	
W27	16 20 25	6° 6'23	0♎34	11°54	6°41	10°51	1° 1	5°31	7° 7	11°33	8°33	24°19	25°19	26°57	28°41	
T 28	16 24 22	7° 3'51	14°20	12°52	7°53	11°35	1° 6	5°39	7° 4	11°31	8°35	24°20	25°15	27° 4	28°46	
F 29	16 28 18	8° 1'18	28°18	13°53	9° 5	12°19	1°12	5°47	7° 2	11°30	8°36	24°21	25°12	27°11	28°52	
S 30	16 32 15	8°58'43	12♎26	14°57	10°17	13° 3	1°17	5°55	6°59	11°28	8°37	24°R21	25° 9	27°17	28°57	
S 31	16 36 11	9♉56'07	26♎43	16♋ 4	11♋Ω29	13♋Ω47	1♎23	6♉ 2	6♋R57	11♋R26	8♉II39	24♉II20	25♉II 6	27♋R24	29♋Ω 3	

Day	☉		☽		♀		♂		♂		♂		♂		♂		♂		♂					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
F 1	15n11	19n30	4n 5	15n 2	0n11	0n42	1s41	7n45	0s43	12n50	1n16	19n 2	1s38	21s38	0n 5	20s46	1n33	11n28	10s20	23n24	23n27	7s 5	14n11	6s47
S 2	15 29	15 18	4 44	14 34	0s 7	1 10	1 42	8 2	0 42	12 49	1 16	19 4	1 38	21 37	0 5	20 45	1 33	11 28	10 20	23 24	23 27	7 3	14 11	6 46
S 3	15 47	10 9	5 5	14 6	0 24	1 37	1 43	8 19	0 42	12 49	1 16	19 5	1 38	21 37	0 5	20 45	1 33	11 29	10 20	23 23	23 26	7 0	14 12	6 46
M 4	16 4	4 21	5 8	13 38	0 41	2 4	1 44	8 37	0 41	12 48	1 16	19 7	1 38	21 37	0 5	20 45	1 33	11 29	10 20	23 23	23 26	6 57	14 11	6 45
T 5	16 21	1s45	4 49	13 11	0 58	2 31	1 45	8 54	0 41	12 47	1 16	19 8	1 38	21 36	0 5	20 45	1 33	11 29	10 20	23 23	23 26	6 55	14 11	6 44
W 6	16 38	7 46	4 11	12 46	1 15	2 58	1 46	9 11	0 40	12 46	1 15	19 10	1 38	21 36	0 5	20 45	1 33	11 30	10 20	23 23	23 26	6 52	14 11	6 44
T 7	16 55	13 18	3 17	12 22	1 30	3 26	1 46	9 28	0 40	12 45	1 15	19 11	1 37	21 36	0 5	20 44	1 33	11 30	10 20	23 23	23 26	6 49	14 11	6 43
F 8	17 11	17 59	2 11	11 59	1 46	3 53	1 47	9 44	0 39	12 44	1 15	19 13	1 37	21 35	0 5	20 44	1 33	11 30	10 19	23 23	23 26	6 47	14 11	6 42
S 9	17 27	21 32	0 59	11 39	2 0	4 20	1 47	10 1	0 38	12 43	1 15	19 15	1 37	21 35	0 5	20 44	1 33	11 31	10 19	23 23	23 26	6 44	14 11	6 42
S 10	17 43	23 43	0s16	11 20	2 14	4 47	1 48	10 18	0 38	12 42	1 15	19 16	1 37	21 35	0 5	20 44	1 33	11 31	10 19	23 23	23 26	6 41	14 11	6 41
M11	17 58	24 30	1 27	11 4	2 26	5 14	1 48	10 34	0 37	12 41	1 15	19 18	1 37	21 34	0 5	20 44	1 33	11 31	10 19	23 23	23 26	6 39	14 11	6 40
T 12	18 13	23 54	2 32	10 50	2 38	5 41	1 49	10 50	0 37	12 40	1 14	19 19	1 37	21 34	0 4	20 43	1 33	11 32	10 19	23 23	23 26	6 36	14 11	6 40
W13	18 28	22 7	3 27	10 39	2 48	6 8	1 49	11 7	0 36	12 39	1 14	19 21	1 37	21 34	0 4	20 43	1 33	11 32	10 19	23 23	23 26	6 33	14 10	6 39
T 14	18 43	19 21	4 12	10 30	2 58	6 35	1 49	11 23	0 36	12 38	1 14	19 22	1 37	21 33	0 4	20 43	1 33	11 32	10 19	23 23	23 25	6 31	14 10	6 38
F 15	18 57	15 47	4 45	10 24	3 7	7 1	1 49	11 39	0 35	12 36	1 14	19 24	1 37	21 33	0 4	20 43	1 33	11 32	10 19	23 23	23 25	6 28	14 10	6 38
S 16	19 11	11 39	5 6	10 20	3 14	7 28	1 49	11 55	0 34	12 35	1 14	19 25	1 37	21 32	0 4	20 43	1 33	11 33	10 19	23 23	23 25	6 25	14 10	6 37
S 17	19 25	7 6	5 13	10 18	3 21	7 54	1 49	12 10	0 34	12 33	1 14	19 27	1 37	21 32	0 4	20 42	1 33	11 33	10 19	23 23	23 25	6 23	14 9	6 37
M18	19 38	2 16	5 6	10 19	3 26	8 20	1 48	12 26	0 33	12 32	1 13	19 28	1 36	21 32	0 4	20 42	1 33	11 33	10 18	23 22	23 25	6 20	14 9	6 36
T 19	19 51	2n40	4 47	10 22	3 30	8 47	1 48	12 41	0 33	12 30	1 13	19 30	1 36	21 31	0 4	20 42	1 33	11 34	10 18	23 22	23 25	6 17	14 9	6 35
W20	20 4	7 35	4 14	10 28	3 34	9 13	1 48	12 57	0 32	12 28	1 13	19 31	1 36	21 31	0 4	20 42	1 33	11 34	10 18	23 22	23 25	6 15	14 8	6 35
T 21	20 16	12 16	3 30	10 36	3 36	9 38	1 47	13 12	0 32	12 27	1 13	19 33	1 36	21 30	0 4	20 42	1 33	11 34	10 18	23 22	23 25	6 12	14 8	6 34
F 22	20 28	16 32	2 34	10 46	3 38	10 4	1 47	13 27	0 31	12 25	1 13	19 34	1 36	21 30	0 4	20 41	1 33	11 34	10 18	23 22	23 25	6 9	14 7	6 34
S 23	20 39	20 8	1 30	10 57	3 39	10 29	1 46	13 42	0 30	12 23	1 13	19 36	1 36	21 30	0 4	20 41	1 33	11 35	10 18	23 22				

SWISS EPHEMERIS for the year 1648

JUNE 1648 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	16 40 8	10II53'30	11♁ 6	17♁15	12♁41	14♁30	1♯29	6II10	6°R54	11°R25	8II40	24°R19	25II 3	27♁31	29♁ 9
T 2	16 44 5	11°50'52	25°31	18°29	13°53	15°14	1°36	6°18	6♁52	11♁23	8°42	24II18	24°59	27°38	29°15
W 3	16 48 1	12°48'13	9♯55	19°46	15° 5	15°57	1°42	6°26	6°49	11°22	8°43	24°17	24°56	27°44	29°21
T 4	16 51 58	13°45'32	24°10	21° 6	16°17	16°41	1°48	6°33	6°47	11°20	8°44	24°15	24°53	27°51	29°26
F 5	16 55 54	14°42'51	8♁14	22°28	17°29	17°24	1°55	6°41	6°45	11°18	8°46	24°15	24°50	27°58	29°32
S 6	16 59 51	15°40'10	22° 2	23°54	18°42	18° 8	2° 2	6°49	6°42	11°17	8°47	24°D14	24°47	28° 5	29°38
S 7	17 3 47	16°37'27	5♁32	25°23	19°54	18°51	2° 9	6°57	6°40	11°15	8°48	24°14	24°44	28°11	29°45
M 8	17 7 44	17°34'44	18°41	26°55	21° 6	19°34	2°16	7° 4	6°37	11°13	8°50	24°15	24°40	28°18	29°51
T 9	17 11 40	18°32'01	1♁31	28°29	22°18	20°17	2°23	7°12	6°35	11°12	8°51	24°15	24°37	28°25	29°57
W10	17 15 37	19°29'17	14° 2	0II 7	23°31	21° 1	2°30	7°20	6°32	11°10	8°52	24°16	24°34	28°31	0Ω 3
T 11	17 19 34	20°26'32	26°18	1°47	24°43	21°44	2°37	7°28	6°30	11° 9	8°54	24°16	24°31	28°38	0° 9
F 12	17 23 30	21°23'48	8♁23	3°30	25°55	22°27	2°45	7°35	6°28	11° 7	8°55	24°17	24°28	28°45	0°16
S 13	17 27 27	22°21'03	20°19	5°16	27° 8	23°10	2°52	7°43	6°25	11° 6	8°57	24°R17	24°24	28°52	0°22
S 14	17 31 23	23°18'17	2°V13	7° 4	28°20	23°53	3° 0	7°51	6°23	11° 4	8°58	24°17	24°21	28°58	0°29
M15	17 35 20	24°15'32	14° 8	8°56	29°32	24°35	3° 8	7°58	6°21	11° 2	8°59	24°D17	24°18	29° 5	0°35
T 16	17 39 16	25°12'46	26° 8	10°50	0II45	25°18	3°16	8° 6	6°18	11° 1	9° 1	24°17	24°15	29°12	0°42
W17	17 43 13	26°10'00	8♁19	12°46	1°57	26° 1	3°24	8°13	6°16	10°59	9° 2	24°17	24°12	29°19	0°48
T 18	17 47 9	27° 7'14	20°43	14°45	3°10	26°44	3°32	8°21	6°14	10°58	9° 3	24°17	24° 9	29°25	0°55
F 19	17 51 6	28° 4'28	3II22	16°46	4°22	27°26	3°41	8°28	6°12	10°56	9° 5	24°17	24° 5	29°32	1° 2
S 20	17 55 3	29° 1'42	16°19	18°49	5°35	28° 9	3°49	8°36	6° 9	10°55	9° 6	24°18	24° 2	29°39	1° 8
S 21	17 58 59	29°58'56	29°34	20°53	6°48	28°51	3°58	8°43	6° 7	10°53	9° 7	24°R18	23°59	29°45	1°15
M22	18 2 56	0♁56'09	13♁ 5	23° 0	8° 0	29°34	4° 6	8°51	6° 5	10°52	9° 8	24°17	23°56	29°52	1°22
T 23	18 6 52	1°53'23	26°52	25° 8	9°13	0II16	4°15	8°58	6° 3	10°50	9°10	24°17	23°53	29°59	1°29
W24	18 10 49	2°50'35	10♁51	27°17	10°25	0°58	4°24	9° 6	6° 1	10°49	9°11	24°16	23°50	0°V 6	1°36
T 25	18 14 45	3°47'48	25° 0	29°27	11°38	1°41	4°33	9°13	5°59	10°47	9°12	24°15	23°46	0°12	1°43
F 26	18 18 42	4°45'00	9♯14	1♁37	12°51	2°23	4°42	9°21	5°57	10°46	9°14	24°14	23°43	0°19	1°50
S 27	18 22 38	5°42'12	23°30	3°48	14° 3	3° 5	4°51	9°28	5°54	10°44	9°15	24°13	23°40	0°26	1°57
S 28	18 26 35	6°39'23	7♁45	5°58	15°16	3°47	5° 1	9°35	5°52	10°43	9°16	24°D13	23°37	0°32	2° 4
M29	18 30 32	7°36'34	21°57	8° 8	16°29	4°29	5°10	9°42	5°50	10°41	9°17	24°13	23°34	0°39	2°11
T 30	18 34 28	8°33'44	6♯ 3	10♁18	17II42	5II11	5♯20	9II50	5♁49	10♁40	9II19	24II14	23II30	0°V46	2♁18

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	22n 7	0n14	5n 2	13n58	3s10	14n 7	1s38	15n50	0s25	12n 4	1n11	19n49	1s35	21s26	0n 4	20s39	1n33	11n37	10s18	23n22	23n24	5s42	14n 2	6s28
T 2	22 15	5s41	4 30	14 25	3 4	14 30	1 37	16 3	0 24	12 2	1 11	19 50	1 35	21 26	0 4	20 39	1 33	11 37	10 18	23 22	23 23	5 40	14 1	6 28
W 3	22 23	11 19	3 41	14 52	2 57	14 53	1 35	16 16	0 23	12 0	1 11	19 51	1 35	21 25	0 4	20 39	1 33	11 37	10 18	23 22	23 23	5 37	14 0	6 27
T 4	22 30	16 17	2 39	15 21	2 49	15 15	1 34	16 29	0 23	11 57	1 11	19 53	1 35	21 25	0 4	20 38	1 33	11 38	10 18	23 22	23 23	5 34	14 0	6 27
F 5	22 36	20 17	1 27	15 50	2 41	15 36	1 32	16 42	0 22	11 55	1 11	19 54	1 35	21 24	0 4	20 38	1 33	11 38	10 18	23 22	23 23	5 31	13 59	6 26
S 6	22 43	23 3	0 12	16 20	2 32	15 58	1 31	16 55	0 22	11 52	1 10	19 55	1 35	21 24	0 4	20 38	1 33	11 38	10 18	23 22	23 23	5 29	13 58	6 26
S 7	22 49	24 24	1s 2	16 50	2 23	16 19	1 29	17 8	0 21	11 49	1 10	19 57	1 35	21 24	0 4	20 38	1 33	11 38	10 18	23 22	23 23	5 26	13 57	6 25
M 8	22 54	24 21	2 11	17 20	2 14	16 40	1 28	17 20	0 20	11 47	1 10	19 58	1 35	21 23	0 4	20 38	1 33	11 38	10 18	23 22	23 23	5 23	13 57	6 25
T 9	22 59	22 59	3 12	17 51	2 4	17 0	1 26	17 32	0 20	11 44	1 10	19 59	1 35	21 23	0 4	20 37	1 33	11 39	10 18	23 22	23 23	5 20	13 56	6 25
W10	23 4 20	30 4	2 18	22 1	5 3	17 20	1 24	17 44	0 19	11 41	1 10	20 1	1 35	21 22	0 4	20 37	1 33	11 39	10 18	23 22	23 22	5 18	13 55	6 24
T 11	23 8 17	9 4	4 40	18 53	1 43	17 39	1 22	17 56	0 18	11 39	1 10	20 2	1 35	21 22	0 4	20 37	1 33	11 39	10 18	23 22	23 22	5 15	13 54	6 24
F 12	23 12 13	9 5	5 19	23 1	3 2	17 58	1 21	18 8	0 18	11 36	1 9	20 3	1 35	21 22	0 4	20 37	1 33	11 39	10 18	23 22	23 22	5 12	13 53	6 23
S 13	23 16 8	4 1	5 16	19 54	1 21	18 17	1 19	18 20	0 17	11 33	1 9	20 5	1 35	21 21	0 4	20 37	1 33	11 39	10 18	23 22	23 22	5 9	13 52	6 23
S 14	23 19 3	5 5	5 14	20 24	1 9	18 35	1 17	18 31	0 16	11 30	1 9	20 6	1 35	21 21	0 4	20 36	1 33	11 40	10 18	23 22	23 22	5 7	13 51	6 22
M15	23 22 1n	0 4	5 8	20 53	0 58	18 52	1 15	18 42	0 16	11 27	1 9	20 7	1 35	21 20	0 4	20 36	1 33	11 40	10 18	23 22	23 22	5 4	13 50	6 22
T 16	23 24 5	5 56	4 29	21 21	0 46	19 10	1 13	18 53	0 15	11 24	1 9	20 8	1 35	21 20	0 4	20 36	1 33	11 40	10 18	23 22	23 22	5 1	13 49	6 22
W17	23 26 10	4 2	3 48	21 48	0 35	19 26	1 11	19 4	0 14	11 21	1 9	20 9	1 35	21 20	0 4	20 36	1 33	11 40	10 18	23 22	23 21	4 58	13 48	6 21
T 18	23 27 15	9 2	5 6	22 13	0 23	19 42	1 9	19 15	0 14	11 18	1 9	20 11	1 35	21 19	0 4	20 36	1 33	11 40	10 18	23 22	23 21	4 56	13 47	6 21
F 19	23 28 19	1 1	5 3	22 38	0 12	19 58	1 6	19 25	0 13	11 15	1 9	20 12	1 35	21 19	0 4	20 35	1 33	11 40	10 18	23 22	23 21	4 53	13 46	6 21
S 20	23 29 22	3 0	4 4	23 0	0 1	20 13	1 4	19 35	0 12	11 11	1 8	20 13	1 35	21 19	0 4	20 35	1 33	11 41	10 18	23 22	23 21	4 50	13 45	6 20
S 21	23 29 23	58 0n	29 23	21 0n	10 20	22 28	1 2	19 45	0 11	11 8	1 8	20 14	1 35	21 18	0 4	20 35	1 33	11 41	10 18	23 22	23 21	4 47	13 44	6 20
M22	23 29 24	32 1	4 2	23 39	0 21	20 42	1 0	19 55	0 11	11 5	1 8	20 15	1 35	21 18	0 4	20 35	1 33	11 41	10 18	23 22	23 21	4 45	13 43	6 20
T 23	23 28 23	37 2	5 1	23 55	0 31	20 56	0 58	20 5	0 10	11 1	1 8	20 16	1 35	21 17	0 4	20 35	1 33	11 41	10 18	23 22	23 21	4 42	13 42	6 19
W24	23 27 21	14 3	5 0	24 9	0 41	21 9	0 55	20 14	0 9	10 58	1 8	20 18	1 35	21 17	0 4	20 34	1 33	11 41	10 18	23 22	23 20	4 39	13 41	6 19
T 25	23 26 17	33 4	3 6	24 20	0 50	21 21	0 53	20 24	0 9	10 55	1 8	20 19	1 35	21 17	0 4	20 34	1 33	11 41	10 18	23 22	23 20	4 36	13 40	6 19
F 26	23 24 12	50 5	5 24	28 0	5 9	21 33	0 51	20 33	0 8	10 51	1 8	20 20	1 35	21 16	0 4	20 34	1 33	11 41	10 18	23 22	23 20	4 34	13 38	6 18
S 27	23 22 7	25 5	16 24	33 1	8 21	44 0	48 20	42 0	7 10	48 1	8 20	21 1	35 21	16 0	4 20	34 1	33 11	42 10	18 23	22 23	20 4 31	13 37	6 18	
S 28	23 19 1	37 5	7 24	36 1	15 21	55 0	46 20	50 0	7 10	44 1	7 20	22 1	35 21	16 0	4 20	34 1	33 11	42 10	18 23	22 23	20 4 28	13 36	6 18	
M29	23 16 4	s14 4	4 40	24 36 1	22 22 5	0 43	20 59 0	6 10 41 1	7 20 23 1	35 21 15 0	4 20 34 1	33 11 42 10	18 23 22 23 20 4											

SWISS EPHEMERIS for the year 1648

JULY 1648 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	18 38 25	9 ⁵³ 30'55	20 ¹¹ 1	12 ²⁷ 27	18 ¹¹ 55	5 ¹¹ 53	5 ¹¹ 29	9 ¹¹ 57	5 ¹¹ R47	10 ¹¹ R39	9 ¹¹ 20	24 ¹¹ 15	23 ¹¹ 27	0 ¹¹ Y53	2 ¹¹ Q25
T 2	18 42 21	10 ²⁸ 0'5	3 ¹¹ 49	14 ³⁵	20 ⁷	6 ³⁵	5 ³⁹	10 ⁴	5 ¹¹ 45	10 ¹¹ 37	9 ²¹	24 ¹⁶	23 ²⁴	0 ⁵⁹	2 ³²
F 3	18 46 18	11 ²⁵ 1'6	17 ²⁶	16 ⁴²	21 ²⁰	7 ¹⁶	5 ⁴⁹	10 ¹¹	5 ⁴³	10 ³⁶	9 ²²	24 ¹⁷	23 ²¹	1 ⁶	2 ³⁹
S 4	18 50 14	12 ²² 2'6	0 ¹¹ 51	18 ⁴⁷	22 ³³	7 ⁵⁸	5 ⁵⁸	10 ¹⁸	5 ⁴¹	10 ³⁵	9 ²³	24 ¹⁷ R17	23 ¹⁸	1 ¹³	2 ⁴⁶
S 5	18 54 11	13 ¹⁹ 3'7	14 ¹	20 ⁵¹	23 ⁴⁶	8 ⁴⁰	6 ⁸	10 ²⁵	5 ³⁹	10 ³³	9 ²⁵	24 ¹⁶	23 ¹⁵	1 ²⁰	2 ⁵⁴
M 6	18 58 7	14 ¹⁶ 4'8	26 ⁵⁶	22 ⁵⁴	24 ⁵⁹	9 ²¹	6 ¹⁸	10 ³²	5 ³⁷	10 ³²	9 ²⁶	24 ¹⁴	23 ¹¹	1 ²⁶	3 ¹
T 7	19 2 4	15 ¹³ 5'9	9 ¹¹ 37	24 ⁵⁵	26 ¹²	10 ³	6 ²⁹	10 ³⁹	5 ³⁶	10 ³¹	9 ²⁷	24 ¹¹	23 ⁸	1 ³³	3 ⁸
W 8	19 6 1	16 ¹¹ 1'0	22 ³	26 ⁵⁴	27 ²⁵	10 ⁴⁴	6 ³⁹	10 ⁴⁶	5 ³⁴	10 ³⁰	9 ²⁸	24 ⁸	23 ⁵	1 ⁴⁰	3 ¹⁶
T 9	19 9 57	17 ⁸ 2'2	4 ¹¹ 17	28 ⁵¹	28 ³⁸	11 ²⁵	6 ⁴⁹	10 ⁵³	5 ³²	10 ²⁸	9 ²⁹	24 ⁵	23 ²	1 ⁴⁶	3 ²³
F 10	19 13 54	18 ⁵ 3'5	16 ²⁰	0 ¹¹ 47	29 ⁵¹	12 ⁷	6 ⁵⁹	10 ⁵⁹	5 ³¹	10 ²⁷	9 ³⁰	24 ¹	22 ⁵⁹	1 ⁵³	3 ³⁰
S 11	19 17 50	19 ² 4'8	28 ¹⁶	2 ⁴¹	1 ¹¹ 4	12 ⁴⁸	7 ¹⁰	11 ⁶	5 ²⁹	10 ²⁶	9 ³¹	23 ⁵⁹	22 ⁵⁶	2 ⁰	3 ³⁸
S 12	19 21 47	20 ⁰ 0'1	10 ¹¹ 9	4 ³³	2 ¹⁷	13 ²⁹	7 ²⁰	11 ¹³	5 ²⁸	10 ²⁵	9 ³³	23 ⁵⁷	22 ⁵²	2 ⁷	3 ⁴⁵
M13	19 25 43	20 ⁵⁷ 1'6	2 ¹¹ 3	6 ²³	3 ³⁰	14 ¹⁰	7 ³¹	11 ²⁰	5 ²⁶	10 ²⁴	9 ³⁴	23 ⁵⁷ D57	22 ⁴⁹	2 ¹³	3 ⁵²
T 14	19 29 40	21 ⁵⁴ 3'1	4 ¹¹ 4	8 ¹²	4 ⁴⁴	14 ⁵¹	7 ⁴²	11 ²⁶	5 ²⁵	10 ²³	9 ³⁵	23 ⁵⁷	22 ⁴⁶	2 ²⁰	4 ⁰
W15	19 33 36	22 ⁵¹ 4'7	16 ¹⁴	9 ⁵⁸	5 ⁵⁷	15 ³²	7 ⁵³	11 ³³	5 ²³	10 ²¹	9 ³⁶	23 ⁵⁹	22 ⁴³	2 ²⁷	4 ⁷
T 16	19 37 33	23 ⁴⁹ 0'3	28 ⁴⁰	11 ⁴³	7 ¹⁰	16 ¹³	8 ³	11 ³⁹	5 ²²	10 ²⁰	9 ³⁷	24 ⁰	22 ⁴⁰	2 ³³	4 ¹⁵
F 17	19 41 30	24 ⁴⁶ 2'1	11 ¹¹ 25	13 ²⁶	8 ²³	16 ⁵⁴	8 ¹⁴	11 ⁴⁶	5 ²¹	10 ¹⁹	9 ³⁸	24 ²	22 ³⁶	2 ⁴⁰	4 ²²
S 18	19 45 26	25 ⁴³ 4'0	24 ³²	15 ⁷	9 ³⁷	17 ³⁵	8 ²⁵	11 ⁵²	5 ¹⁹	10 ¹⁸	9 ³⁹	24 ² R 2	22 ³³	2 ⁴⁷	4 ³⁰
S 19	19 49 23	26 ⁴⁰ 5'9	8 ¹¹ 2	16 ⁴⁷	10 ⁵⁰	18 ¹⁶	8 ³⁶	11 ⁵⁸	5 ¹⁸	10 ¹⁷	9 ⁴⁰	24 ²	22 ³⁰	2 ⁵⁴	4 ³⁷
M20	19 53 19	27 ³⁸ 1'9	21 ⁵⁴	18 ²⁵	12 ³	18 ⁵⁶	8 ⁴⁸	12 ⁵	5 ¹⁷	10 ¹⁶	9 ⁴¹	23 ⁵⁹	22 ²⁷	3 ⁰	4 ⁴⁵
T 21	19 57 16	28 ³⁵ 3'9	6 ¹¹ 6	20 ⁰	13 ¹⁷	19 ³⁷	8 ⁵⁹	12 ¹¹	5 ¹⁶	10 ¹⁵	9 ⁴²	23 ⁵⁶	22 ²⁴	3 ⁷	4 ⁵²
W22	20 1 12	29 ³³ 0'1	20 ³³	21 ³⁴	14 ³⁰	20 ¹⁸	9 ¹⁰	12 ¹⁷	5 ¹⁵	10 ¹⁴	9 ⁴³	23 ⁵¹	22 ²¹	3 ¹⁴	5 ⁰
T 23	20 5 9	0 ¹¹ 30'23	5 ¹¹ 8	23 ⁷	15 ⁴⁴	20 ⁵⁸	9 ²¹	12 ²³	5 ¹⁴	10 ¹⁴	9 ⁴⁴	23 ⁴⁵	22 ¹⁷	3 ²¹	5 ⁸
F 24	20 9 6	1 ²⁷ 4'5	19 ⁴⁶	24 ³⁷	16 ⁵⁷	21 ³⁹	9 ³³	12 ²⁹	5 ¹³	10 ¹³	9 ⁴⁵	23 ⁴⁰	22 ¹⁴	3 ²⁷	5 ¹⁵
S 25	20 13 2	2 ²⁵ 0'8	4 ¹¹ 19	26 ⁶	18 ¹¹	22 ¹⁹	9 ⁴⁴	12 ³⁵	5 ¹²	10 ¹²	9 ⁴⁶	23 ³⁶	22 ¹¹	3 ³⁴	5 ²³
S 26	20 16 59	3 ²² 3'2	18 ⁴³	27 ³²	19 ²⁴	22 ⁵⁹	9 ⁵⁶	12 ⁴¹	5 ¹¹	10 ¹¹	9 ⁴⁷	23 ³⁴	22 ⁸	3 ⁴¹	5 ³⁰
M27	20 20 55	4 ¹⁹ 5'6	2 ¹¹ 54	28 ⁵⁷	20 ³⁸	23 ³⁹	10 ⁷	12 ⁴⁷	5 ¹⁰	10 ¹⁰	9 ⁴⁷	23 ³³ D33	22 ⁵	3 ⁴⁷	5 ³⁸
T 28	20 24 52	5 ¹⁷ 2'1	16 ⁵⁰	0 ¹¹ 20	21 ⁵¹	24 ²⁰	10 ¹⁹	12 ⁵³	5 ⁹	10 ⁹	9 ⁴⁸	23 ³³	22 ²	3 ⁵⁴	5 ⁴⁵
W29	20 28 48	6 ¹⁴ 4'6	0 ¹¹ 32	1 ⁴¹	23 ⁵	25 ⁰	10 ³¹	12 ⁵⁹	5 ⁸	10 ⁹	9 ⁴⁹	23 ³⁴	21 ⁵⁸	4 ¹	5 ⁵³
T 30	20 32 45	7 ¹² 1'3	13 ⁵⁹	3 ⁰	24 ¹⁹	25 ⁴⁰	10 ⁴²	13 ⁴	5 ⁷	10 ⁸	9 ⁵⁰	23 ³⁶	21 ⁵⁵	4 ⁸	6 ¹
F 31	20 36 41	8 ¹¹ 9'40	27 ¹¹ 12	4 ¹¹ 17	25 ³²	26 ¹¹ 20	10 ¹¹ 54	13 ¹¹ 10	5 ¹¹ 7	10 ¹¹ 7	9 ¹¹ 51	23 ³⁶ R36	21 ¹¹ 52	4 ¹¹ 14	6 ¹¹ 8

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	23n 9	14s55	2n58	24n27	1n33	22n23	0s38	21n15	0s 4	10n33	1n 7	20n25	1s35	21s15	0n 4	20s33	1n33	11n42	10s18	23n22	23n19	4s20	13n32	6s17
T 2	23 4 19 9	1 51	24 19	1 38	22 31	0 36	21 23	0 4	10 30	1 7	20 26	1 35	21 14	0 4	20 33	1 33	11 42	10 18	23 22	23 19	4 17	13 31	6 17	
F 3	23 0 22 16	0 38	24 8	1 42	22 39	0 33	21 31	0 3	10 26	1 7	20 27	1 35	21 14	0 4	20 33	1 33	11 42	10 18	23 22	23 19	4 14	13 30	6 16	
S 4	22 54 24 5	0s36	23 54	1 45	22 46	0 31	21 38	0 2	10 22	1 7	20 28	1 35	21 14	0 4	20 33	1 33	11 42	10 18	23 22	23 19	4 11	13 28	6 16	
S 5	22 49 24 31	1 47	23 38	1 48	22 52	0 28	21 46	0 2	10 19	1 7	20 29	1 35	21 13	0 4	20 33	1 33	11 42	10 19	23 22	23 19	4 9	13 27	6 16	
M 6	22 43 23 36	2 50	23 20	1 49	22 58	0 26	21 53	0 1	10 15	1 7	20 30	1 35	21 13	0 4	20 33	1 33	11 42	10 19	23 22	23 19	4 6	13 25	6 16	
T 7	22 37 21 28	3 44	23 0	1 50	23 3	0 23	22 0	0 0	10 11	1 6	20 31	1 35	21 13	0 4	20 32	1 33	11 43	10 19	23 21	23 18	4 3	13 24	6 15	
W 8	22 30 18 23	4 26	22 38	1 51	23 7	0 21	22 6	0n 1	10 7	1 6	20 32	1 35	21 13	0 4	20 32	1 33	11 43	10 19	23 21	23 18	4 0	13 23	6 15	
T 9	22 23 14 32	4 55	22 14	1 50	23 11	0 18	22 13	0 1	10 3	1 6	20 33	1 35	21 12	0 4	20 32	1 32	11 43	10 19	23 21	23 18	3 57	13 21	6 15	
F 10	22 16 10 10	5 11	21 48	1 49	23 14	0 16	22 19	0 2	9 59	1 6	20 34	1 35	21 12	0 4	20 32	1 32	11 43	10 19	23 21	23 18	3 55	13 20	6 15	
S 11	22 8 5 28	5 13	21 21	1 48	23 16	0 13	22 25	0 3	9 55	1 6	20 35	1 35	21 12	0 4	20 32	1 32	11 43	10 19	23 21	23 18	3 52	13 18	6 15	
S 12	22 0 0 35	5 1	20 52	1 45	23 17	0 10	22 31	0 3	9 51	1 6	20 36	1 35	21 12	0 4	20 32	1 32	11 43	10 19	23 21	23 18	3 49	13 17	6 14	
M13	21 51 4n19	4 37	20 22	1 42	23 18	0 8	22 37	0 4	9 47	1 6	20 37	1 35	21 11	0 4	20 32	1 32	11 43	10 19	23 21	23 17	3 46	13 15	6 14	
T 14	21 42 9 8	4 0	19 51	1 39	23 19	0 5	22 42	0 5	9 43	1 6	20 37	1 35	21 11	0 4	20 31	1 32	11 43	10 19	23 21	23 17	3 43	13 14	6 14	
W15	21 33 13 39	3 12	19 19	1 35	23 18	0 3	22 48	0 6	9 39	1 6	20 38	1 35	21 11	0 4	20 31	1 32	11 43	10 20	23 21	23 17	3 41	13 12	6 14	
T 16	21 23 17 43	2 14	18 45	1 31	23 17	0 0	22 53	0 6	9 35	1 6	20 39	1 35	21 11	0 4	20 31	1 32	11 43	10 20	23 21	23 17	3 38	13 11	6 14	
F 17	21 13 21 4	1 8	18 11	1 26	23 15	0n 2	22 58	0 7	9 31	1 6	20 40	1 35	21 10	0 4	20 31	1 32	11 43	10 20	23 21	23 17	3 35	13 9	6 14	
S 18	21 2 23 25	0n 3	17 37	1 20	23 13	0 5	23 2	0 8	9 26	1 6	20 41	1 35	21 10	0 4	20 31	1 32	11 43	10 20	23 21	23 17	3 32	13 7	6 13	
S 19	20 52 24 30	1 16	17 1	1 15	23 10	0 7	23 7	0 9	9 22	1 5	20 41	1 35	21 10	0 4	20 31	1 32	11 43	10 20	23 21	23 16	3 29	13 6	6 13	
M20	20 40 24 6	2 26	16 25	1 8	23 6	0 10	23 11	0 9	9 18	1 5	20 42	1 36	21 10	0 4	20 31	1 32	11 43	10 20	23 21	23 16	3 27	13 4	6 13	
T 21	20 29 22 9	3 29	15 49	1 2 23	1 0	12 23	15 0	10 9	14	1 5	20 43	1 36	21 10	0 4	20 31	1 32	11 43	10 20	23 21	23 16	3 24	13 3	6 13	

SWISS EPHEMERIS for the year 1648

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
S 1	20 40 38	9♎ 7'08	10♌14	5♎32	26♁46	26♁59	11♎ 6	13♁15	5°R 6	10°R 7	9♁52	23°R35	21♁49	4°Y21	6♁16	
S 2	20 44 35	10° 4'36	23° 3	6°45	28° 0	27°39	11°18	13°21	5° 5	10° 6	9°52	23°R31	21°46	4°28	6°23	
M 3	20 48 31	11° 2'06	5♌41	7°56	29°13	28°19	11°30	13°26	5° 5	10° 5	9°53	23°26	21°42	4°34	6°31	
T 4	20 52 28	11°59'37	18° 8	9° 4	0♁27	28°59	11°42	13°32	5° 4	10° 5	9°54	23°18	21°39	4°41	6°39	
W 5	20 56 24	12°57'09	0♁25	10°10	1°41	29°38	11°54	13°37	5° 4	10° 4	9°55	23° 9	21°36	4°48	6°46	
T 6	21 0 21	13°54'42	12°32	11°13	2°55	0♁18	12° 6	13°42	5° 4	10° 4	9°55	23° 0	21°33	4°55	6°54	
F 7	21 4 17	14°52'16	24°32	12°14	4° 9	0°57	12°18	13°47	5° 3	10° 3	9°56	22°51	21°30	5° 1	7° 1	
S 8	21 8 14	15°49'52	6°V26	13°13	5°23	1°37	12°30	13°52	5° 3	10° 3	9°57	22°43	21°27	5° 8	7° 9	
S 9	21 12 10	16°47'29	18°17	14° 8	6°37	2°16	12°43	13°57	5° 3	10° 2	9°57	22°37	21°23	5°15	7°16	
M10	21 16 7	17°45'08	0♁10	15° 0	7°51	2°55	12°55	14° 2	5° 2	10° 2	9°58	22°33	21°20	5°22	7°24	
T 11	21 20 3	18°42'48	12° 8	15°50	9° 5	3°34	13° 7	14° 7	5° 2	10° 2	9°58	22°32	21°17	5°28	7°31	
W12	21 24 0	19°40'30	24°16	16°36	10°19	4°14	13°19	14°11	5° 2	10° 1	9°59	22°D31	21°14	5°35	7°39	
T 13	21 27 57	20°38'14	6♁24	17°18	11°33	4°53	13°32	14°16	5°D 2	10° 1	10° 0	22°32	21°11	5°42	7°47	
F 14	21 31 53	21°35'59	19°24	17°57	12°47	5°32	13°44	14°20	5° 2	10° 1	10° 0	22°R33	21° 8	5°48	7°54	
S 15	21 35 50	22°33'46	2♁32	18°32	14° 1	6°11	13°57	14°25	5° 2	10° 1	10° 1	22°32	21° 4	5°55	8° 2	
S 16	21 39 46	23°31'35	16° 7	19° 3	15°15	6°49	14° 9	14°29	5° 2	10° 0	10° 1	22°30	21° 1	6° 2	8° 9	
M17	21 43 43	24°29'25	0♁10	19°30	16°29	7°28	14°22	14°34	5° 3	10° 0	10° 2	22°26	20°58	6° 9	8°16	
T 18	21 47 39	25°27'17	14°39	19°51	17°43	8° 7	14°34	14°38	5° 3	10° 0	10° 2	22°19	20°55	6°15	8°24	
W19	21 51 36	26°25'10	29°27	20° 9	18°57	8°46	14°47	14°42	5° 3	10° 0	10° 3	22°10	20°52	6°22	8°31	
T 20	21 55 33	27°23'05	14♎27	20°20	20°12	9°24	15° 0	14°46	5° 3	10° 0	10° 3	22° 0	20°48	6°29	8°39	
F 21	21 59 29	28°21'01	29°29	20°27	21°26	10° 3	15°12	14°50	5° 4	10° 0	10° 4	21°51	20°45	6°35	8°46	
S 22	22 3 26	29°18'58	14♁24	20°R28	22°40	10°41	15°25	14°54	5° 4	10°D 0	10° 4	21°43	20°42	6°42	8°53	
S 23	22 7 22	0♎16'57	29° 4	20°23	23°55	11°19	15°38	14°58	5° 5	10° 0	10° 4	21°37	20°39	6°49	9° 1	
M24	22 11 19	1°14'58	13♎23	20°12	25° 9	11°58	15°50	15° 1	5° 5	10° 0	10° 5	21°34	20°36	6°56	9° 8	
T 25	22 15 15	2°12'59	27°21	19°55	26°23	12°36	16° 3	15° 5	5° 6	10° 0	10° 5	21°D33	20°33	7° 2	9°15	
W26	22 19 12	3°11'02	10♁57	19°32	27°38	13°14	16°16	15° 8	5° 6	10° 0	10° 5	21°33	20°29	7° 9	9°23	
T 27	22 23 8	4° 9'07	24°13	19° 3	28°52	13°52	16°29	15°12	5° 7	10° 0	10° 6	21°R33	20°26	7°16	9°30	
F 28	22 27 5	5° 7'13	7♌12	18°27	0♎ 6	14°30	16°41	15°15	5° 8	10° 1	10° 6	21°32	20°23	7°22	9°37	
S 29	22 31 1	6° 5'20	19°56	17°46	1°21	15° 8	16°54	15°18	5° 9	10° 1	10° 6	21°29	20°20	7°29	9°44	
S 30	22 34 58	7° 3'29	2♁28	17° 0	2°35	15°46	17° 7	15°21	5° 9	10° 1	10° 6	21°23	20°17	7°36	9°51	
M31	22 38 55	8♎ 1'39	14♁50	16♎ 9	3♎50	16♁23	17♎20	15♁24	5° 10	10° 1	10° 7	21°14	20°14	7°43	9♁58	

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
S 1	18n 1	24s34	1s29	9n 0	0s33	21n28	0n38	23n46	0n19	8n25	1n 5	20n51	1s36	21s 8	0n 4	20s30	1n31	11n43	10s22	23n20	23n14	2s53	12n43	6s12
S 2	17 45 24	1 2 32	8 23	0 43	21 15	0 40	23 47	0 19	8 20	1 5	20 51	1 36	21 8	0 4	20 30	1 31	11 43	10 22	23 20	23 14	2 50	12 42	6 12	
M 3	17 30 22	14 3 27	7 48	0 53	21 2	0 42	23 49	0 20	8 16	1 5	20 52	1 36	21 8	0 4	20 30	1 31	11 43	10 22	23 19	23 14	2 47	12 40	6 12	
T 4	17 14 19	24 4 11	7 12	1 3	20 49	0 44	23 50	0 21	8 11	1 4	20 52	1 36	21 8	0 4	20 30	1 31	11 43	10 22	23 19	23 13	2 44	12 38	6 12	
W 5	16 58 15	45 4 42	6 38	1 14	20 34	0 46	23 51	0 22	8 6	1 4	20 53	1 37	21 8	0 4	20 30	1 31	11 43	10 22	23 18	23 13	2 41	12 36	6 12	
T 6	16 41 11	30 5 1	6 4	1 25	20 20	0 48	23 52	0 22	8 2	1 4	20 53	1 37	21 8	0 4	20 30	1 31	11 43	10 23	23 18	23 13	2 38	12 34	6 13	
F 7	16 24 6	51 5 6	5 31	1 35	20 4	0 50	23 52	0 23	7 57	1 4	20 54	1 37	21 7	0 3	20 30	1 31	11 43	10 23	23 18	23 13	2 36	12 32	6 13	
S 8	16 7 1	59 4 57	4 59	1 46	19 48	0 52	23 53	0 24	7 52	1 4	20 54	1 37	21 7	0 3	20 30	1 31	11 43	10 23	23 17	23 13	2 33	12 30	6 13	
S 9	15 50 2n56	4 36	4 27	1 57	19 32	0 54	23 53	0 25	7 47	1 4	20 55	1 37	21 7	0 3	20 30	1 31	11 42	10 23	23 17	23 12	2 30	12 29	6 13	
M10	15 32 7	46 4 3	3 57	2 8	19 15	0 56	23 53	0 26	7 43	1 4	20 55	1 37	21 7	0 3	20 30	1 31	11 42	10 23	23 17	23 12	2 27	12 27	6 13	
T 11	15 15 12	21 3 19	3 28	2 19	18 57	0 58	23 53	0 26	7 38	1 4	20 56	1 37	21 7	0 3	20 30	1 31	11 42	10 23	23 16	23 12	2 24	12 25	6 13	
W12	14 57 16	32 2 25	3 0	2 29	18 39	0 59	23 52	0 27	7 33	1 4	20 56	1 37	21 7	0 3	20 30	1 31	11 42	10 24	23 16	23 12	2 21	12 23	6 13	
T 13	14 38 20	5 1 24	2 34	2 40	18 20	1 1	23 52	0 28	7 28	1 4	20 57	1 37	21 7	0 3	20 30	1 31	11 42	10 24	23 16	23 11	2 18	12 21	6 13	
F 14	14 20 22	47 0 17	2 9	2 51	18 1	1 3	23 51	0 29	7 24	1 4	20 57	1 37	21 7	0 3	20 30	1 31	11 42	10 24	23 17	23 11	2 16	12 19	6 13	
S 15	14 1 24	21 0n53	1 46	3 1	17 41	1 4	23 50	0 30	7 19	1 4	20 58	1 37	21 7	0 3	20 30	1 31	11 42	10 24	23 16	23 11	2 13	12 17	6 13	
S 16	13 42 24	32 2 2	1 25	3 11	17 20	1 6	23 49	0 30	7 14	1 4	20 58	1 37	21 7	0 3	20 30	1 31	11 42	10 24	23 16	23 11	2 10	12 15	6 13	
M17	13 23 23	11 3 6	1 5	3 21	17 0	1 7	23 48	0 31	7 9	1 4	20 59	1 38	21 7	0 3	20 30	1 31	11 42	10 24	23 16	23 11	2 7	12 13	6 13	
T 18	13 4 20	18 4 0	0 48	3 31	16 38	1 9	23 46	0 32	7 4	1 4	20 59	1 38	21 8	0 3	20 30	1 31	11 42	10 25	23 16	23 10	2 4	12 11	6 13	
W19	12 44 16	3 4 40	0 33	3 40	16 17	1 10	23 44	0 33	6 59	1 4	20 59	1 38	21 8	0 3	20 30	1 30	11 42	10 25	23 15	23 10	2 1	12 9	6 14	
T 20	12 24 10	45 5 0	0 20	3 48	15 54	1 11	23 43	0 34	6 54	1 4	21 0	1 38	21 8	0 3	20 30	1 30	11 41	10 25	23 15	23 10	1 58	12 7	6 14	
F 21	12 4 4 47	5 0	0 10	3 56	15 32	1 13	23 40	0 34	6 49	1 4	21 0	1 38	21 8	0 3	20 30	1 30	11 41	10 25	23 14	23 10	1 55	12 5	6 14	
S 22	11 44 1s23	4 40	0 3	4 4	15 9	1 14	23 38	0 35	6 44	1 4	21 0	1 38	21 8	0 3	20 30	1 30	11 41	10 25	23 14	23 10	1 53	12 3	6 14	
S 23	11 24 7	24 4 1	0s 1	4 10	14 45	1 15	23 36	0 36	6 40	1 4	21 1	1 38	21 8	0 3	20 30	1 30	11 41	10 25	23 13	23 9	1 50	12 1	6 14	
M24	11 3 12	54 3 8	0 2	4 16	14 21	1 16	23 33	0 37	6 35	1 4	21 1	1 38	21 8	0 3	20 30	1 30	11 41	10 26	23 13	23 9	1 47	11 59	6 14	
T 25	10 42 17	35 2 5	0n 1	4 20	13 57	1 17	23 31	0 38	6 30	1 4	21 1	1 38	21 8	0 3	20 30	1 30	11 41	10 26	23 13	23 9	1 44	11 57	6 15	
W26	10 21 21	12 0 56	0 7	4 23	13 32	1 18	23 28	0 38	6 25	1 4	21 2	1 38	21 8	0 3	20 30	1 30	11 41	10 26	23 13	23 9	1 41	11 55	6 15	
T 27	10 0 23	36 0s14	0 17	4 25	13 7	1 19	23 25	0 39	6 20	1 4	21 2	1 38	21 8	0 3	20 31	1 30	11 40	10 26	23 13	23 8	1 38	11 53	6 15	
F 28	9 39 24	39 1 22	0 30	4 26	12 42	1 20	23 21	0 40	6 15	1 4	21 2	1 39	21 9	0 3	20 31	1 30	11 40	10 26	23 13	23 8	1 35	11 51	6 15	
S 29	9 18 24	23 2 24	0 47	4 24	12 16	1 21	23 18	0 41	6 10	1 4	21 2	1 39	21 9											

SWISS EPHEMERIS for the year 1648

SEPTEMBER 1648 GC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
T 1	22 42 51	8♍59'51	27♋4	15°R14	5♍4	17°51	17♍33	15♊27	5♌11	10♌2	10♊7	21°R 3	20♊10	7♍49	10♊6
W 2	22 46 48	9°58'05	9♋11	14♍16	6°19	17°39	17°46	15°30	5°12	10° 2	10° 7	20♊50	20° 7	7°56	10°13
T 3	22 50 44	10°56'20	21°11	13°17	7°33	18°16	17°59	15°33	5°13	10° 3	10° 7	20°37	20° 4	8° 3	10°20
F 4	22 54 41	11°54'37	3♍6	12°17	8°48	18°53	18°12	15°35	5°14	10° 3	10° 7	20°23	20° 1	8° 9	10°27
S 5	22 58 37	12°52'56	14°58	11°17	10° 2	19°31	18°25	15°38	5°15	10° 3	10° 7	20°11	19°58	8°16	10°33
S 6	23 2 34	13°51'17	26°48	10°20	11°17	20° 8	18°38	15°40	5°17	10° 4	10° 7	20° 1	19°54	8°23	10°40
M 7	23 6 30	14°49'41	8♌40	9°26	12°31	20°45	18°50	15°42	5°18	10° 4	10° 7	19°54	19°51	8°30	10°47
T 8	23 10 27	15°48'06	20°37	8°37	13°46	21°22	19° 3	15°45	5°19	10° 5	10° 7	19°50	19°48	8°36	10°54
W 9	23 14 24	16°46'33	2♊43	7°54	15° 1	21°59	19°16	15°47	5°20	10° 6	10°R 7	19°48	19°45	8°43	11° 1
T 10	23 18 20	17°45'03	15° 4	7°19	16°15	22°36	19°29	15°49	5°22	10° 6	10° 7	19°48	19°42	8°50	11° 8
F 11	23 22 17	18°43'35	27°43	6°51	17°30	23°13	19°42	15°51	5°23	10° 7	10° 7	19°48	19°39	8°56	11°14
S 12	23 26 13	19°42'09	10♌47	6°32	18°45	23°50	19°55	15°52	5°25	10° 8	10° 7	19°47	19°35	9° 3	11°21
S 13	23 30 10	20°40'45	24°19	6°D23	20° 0	24°26	20° 8	15°54	5°26	10° 8	10° 7	19°44	19°32	9°10	11°28
M14	23 34 6	21°39'24	8♌20	6°23	21°14	25° 3	20°21	15°56	5°28	10° 9	10° 7	19°39	19°29	9°17	11°34
T 15	23 38 3	22°38'05	22°51	6°33	22°29	25°40	20°34	15°57	5°29	10°10	10° 7	19°31	19°26	9°23	11°41
W16	23 41 59	23°36'47	7♍46	6°53	23°44	26°16	20°47	15°58	5°31	10°11	10° 7	19°21	19°23	9°30	11°47
T 17	23 45 56	24°35'32	22°58	7°22	24°59	26°52	21° 0	16° 0	5°33	10°11	10° 7	19°10	19°19	9°37	11°53
F 18	23 49 53	25°34'19	8♌16	8° 0	26°13	27°28	21°13	16° 1	5°35	10°12	10° 7	18°59	19°16	9°43	12° 0
S 19	23 53 49	26°33'08	23°29	8°47	27°28	28° 5	21°26	16° 2	5°36	10°13	10° 6	18°49	19°13	9°50	12° 6
S 20	23 57 46	27°31'58	8♍26	9°41	28°43	28°41	21°39	16° 3	5°38	10°14	10° 6	18°42	19°10	9°57	12°12
M21	0 1 42	28°30'51	23° 0	10°44	29°58	29°17	21°52	16° 3	5°40	10°15	10° 6	18°38	19° 7	10° 4	12°19
T 22	0 5 39	29°29'45	7♌7	11°53	1♌13	29°52	22° 5	16° 4	5°42	10°16	10° 6	18°36	19° 4	10°10	12°25
W23	0 9 35	0♌28'41	20°48	13° 8	2°28	0♌28	22°18	16° 5	5°44	10°17	10° 5	18°D36	19° 0	10°17	12°31
T 24	0 13 32	1°27'39	4♌3	14°29	3°42	1° 4	22°31	16° 5	5°46	10°18	10° 5	18°R36	18°57	10°24	12°37
F 25	0 17 28	2°26'38	16°57	15°54	4°57	1°39	22°44	16° 6	5°48	10°19	10° 5	18°35	18°54	10°30	12°43
S 26	0 21 25	3°25'39	29°33	17°24	6°12	2°15	22°57	16° 6	5°50	10°20	10° 4	18°32	18°51	10°37	12°49
S 27	0 25 22	4°24'42	11♌55	18°57	7°27	2°50	23° 9	16° 6	5°53	10°22	10° 4	18°27	18°48	10°44	12°54
M28	0 29 18	5°23'47	24° 7	20°33	8°42	3°25	23°22	16°R 6	5°55	10°23	10° 4	18°19	18°45	10°51	13° 0
T 29	0 33 15	6°22'54	6♌10	22°12	9°57	4° 1	23°35	16° 6	5°57	10°24	10° 3	18° 8	18°41	10°57	13° 6
W30	0 37 11	7°22'02	18♌9	23♍52	11♌12	4♌36	23♍48	16♊6	5°59	10°25	10♊3	17♊56	18♊38	11°Y 4	13♌12

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	8n13	16s48	4s34	1n59	4s10	10n57	1n22	23n 7	0n43	5n55	1n 4	21n 3	1s39	21s 9	0n 3	20s31	1n30	11n40	10s27	23n11	23n 7	1s24	11n42	6s16
W 2	7 51	12 41	4 54	2 30	4 1	10 30	1 23	23 3	0 44	5 50	1 4	21 3	1 39	21 9	0 3	20 31	1 30	11 40	10 27	23 10	23 7	1 21	11 40	6 16
T 3	7 29	8 5	5 0	3 2	3 50	10 3	1 23	22 59	0 45	5 44	1 4	21 3	1 39	21 10	0 3	20 31	1 30	11 39	10 28	23 9	23 7	1 18	11 38	6 17
F 4	7 6	3 14	4 53	3 37	3 38	9 35	1 24	22 54	0 46	5 39	1 4	21 4	1 39	21 10	0 3	20 31	1 30	11 39	10 28	23 8	23 7	1 15	11 36	6 17
S 5	6 44	1n43	4 33	4 13	3 23	9 7	1 24	22 50	0 47	5 34	1 4	21 4	1 39	21 10	0 3	20 31	1 30	11 39	10 28	23 7	23 6	1 12	11 34	6 17
S 6	6 22	6 36	4 1	4 49	3 8	8 39	1 24	22 45	0 48	5 29	1 4	21 4	1 40	21 10	0 3	20 32	1 29	11 39	10 28	23 7	23 6	1 9	11 32	6 17
M 7	5 59	11 17	3 19	5 25	2 50	8 11	1 25	22 41	0 48	5 24	1 4	21 4	1 40	21 11	0 3	20 32	1 29	11 39	10 28	23 6	23 6	1 6	11 30	6 18
T 8	5 37	15 34	2 28	6 0	2 32	7 42	1 25	22 36	0 49	5 19	1 4	21 4	1 40	21 11	0 3	20 32	1 29	11 39	10 28	23 6	23 6	1 4	11 28	6 18
W 9	5 14	19 17	1 29	6 34	2 13	7 13	1 25	22 31	0 50	5 14	1 4	21 4	1 40	21 11	0 3	20 32	1 29	11 38	10 29	23 6	23 5	1 1	11 26	6 18
T 10	4 51	22 14	0 25	7 5	1 54	6 44	1 25	22 25	0 51	5 9	1 4	21 4	1 40	21 11	0 3	20 32	1 29	11 38	10 29	23 6	23 5	0 58	11 24	6 19
F 11	4 28	24 10	0n42	7 34	1 34	6 15	1 25	22 20	0 52	5 4	1 4	21 4	1 40	21 12	0 3	20 32	1 29	11 38	10 29	23 6	23 5	0 55	11 22	6 19
S 12	4 5 24	51 1	4 8	7 59	1 14	5 46	1 25	22 15	0 53	4 59	1 4	21 4	1 40	21 12	0 3	20 32	1 29	11 38	10 29	23 5	23 5	0 52	11 19	6 19
S 13	3 42	24 6	2 51	8 20	0 55	5 16	1 25	22 9	0 54	4 54	1 4	21 5	1 40	21 12	0 3	20 33	1 29	11 38	10 29	23 5	23 4	0 49	11 17	6 20
M14	3 19	21 51	3 46	8 38	0 36	4 46	1 24	22 3	0 54	4 49	1 4	21 5	1 40	21 12	0 3	20 33	1 29	11 37	10 30	23 5	23 4	0 46	11 15	6 20
T 15	2 56	18 9	4 29	8 51	0 18	4 16	1 24	21 57	0 55	4 44	1 4	21 5	1 41	21 13	0 3	20 33	1 29	11 37	10 30	23 4	23 4	0 43	11 13	6 20
W16	2 32	13 13	4 54	9 0	0 1	3 46	1 24	21 51	0 56	4 38	1 4	21 5	1 41	21 13	0 3	20 33	1 29	11 37	10 30	23 3	23 4	0 40	11 11	6 21
T 17	2 9	7 23	5 0	9 4	0n16	3 16	1 23	21 45	0 57	4 33	1 4	21 5	1 41	21 13	0 3	20 33	1 29	11 37	10 30	23 3	23 3	0 37	11 9	6 21
F 18	1 46	1 3	4 44	9 4	0 31	2 46	1 23	21 39	0 58	4 28	1 4	21 5	1 41	21 14	0 3	20 33	1 29	11 37	10 30	23 2	23 3	0 34	11 7	6 21
S 19	1 22	5s18	4 8	8 59	0 44	2 16	1 22	21 33	0 59	4 23	1 4	21 5	1 41	21 14	0 3	20 34	1 29	11 36	10 30	23 1	23 3	0 32	11 5	6 22
S 20	0 59	11 16	3 15	8 50	0 57	1 45	1 21	21 26	1 0	4 18	1 4	21 5	1 41	21 14	0 3	20 34	1 29	11 36	10 31	23 0	23 3	0 29	11 3	6 22
M21	0 36	16 27	2 11	8 36	1 8	1 15	1 21	21 20	1 1	4 13	1 4	21 5	1 41	21 15	0 3	20 34	1 29	11 36	10 31	23 0	23 2	0 26	11 1	6 23
T 22	0 12	20 33	1 0	8 19	1 18	0 44	1 20	21 13	1 1	4 8	1 4	21 5	1 41	21 15	0 3	20 34	1 29	11 36	10 31	23 0	23 2	0 23	10 59	6 23
W23	0s11	23 22	0s12	7 58	1 27	0 14	1 19	21 6	1 2	4 3	1 5	21 5	1 41	21 15	0 3	20 34	1 29	11 36	10 31	23 0	23 2	0 20	10 57	6 23
T 24	0 35	24 46	1 21	7 34	1 34	0s17	1 18	20 59	1 3	3 58	1 5	21 4	1 41	21 16	0 3	20 35	1 28	11 35	10 31	23 0	23 2	0 17	10 55	6 24
F 25	0 58	24 47	2 24	7 7	1 40	0 47	1 17	20 52	1 4	3 53	1 5	21 4	1 42	21 16	0 3	20 35	1 28	11 35	10 32	23 0	23 1	0 14	10 53	6 24
S 26	1 22	23 31	3 19	6 36	1 45	1 18	1 16	20 45	1 5	3 48	1 5	21 4	1 42	21 16	0 3	20 35	1 28	11 35	10 32	22 59	23 1	0 11	10 51	6 25
S 27	1 45	21 8	4 3	6 3	1 49	1 49	1 15	20 38	1 6	3 43	1 5	21 4	1 42	21 17	0 3	20 35	1 28	11 35	10 32	22 59	23 1	0 8	10 48	6 25
M28	2 9	17 50	4 35	5 28	1 52	1 19	1 14	20 31	1 7	3 38	1 5	21 4	1 42	21 17	0 3	20 36	1 28	11 34	10 32	22 58	23 0	0 5	10 46	6 26
T 29	2 32	13 49	4 55	4 51	1 54	2 50	1 13	20 23	1 8	3 33	1 5	21 4	1 42	21 18	0 3	20 36	1 28	11 34	10 32	22 57	23 0	0 2	10 44	6 26
W30	2s56	9s19	5s 1	4n12	1n55	3s20	1n12	20																

SWISS EPHEMERIS for the year 1648

OCTOBER 1648 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	0 41 8	8♂21'13	0♀ 4	25♁34	12♂27	5♁10	24♁ 1	16°R 5	6♁ 2	10♁26	10°R 2	17°R43	18♁35	11♀11	13♁17
F 2	0 45 4	9°20'25	11°56	27°17	13°42	5°45	24°13	16♁ 5	6° 4	10°28	10♁ 2	17♁30	18°32	11°17	13°23
S 3	0 49 1	10°19'40	23°48	29° 1	14°57	6°20	24°26	16° 4	6° 6	10°29	10° 1	17°18	18°29	11°24	13°28
S 4	0 52 57	11°18'56	5♁40	0♂46	16°12	6°55	24°39	16° 4	6° 9	10°30	10° 1	17° 9	18°25	11°31	13°33
M 5	0 56 54	12°18'15	17°35	2°31	17°27	7°29	24°52	16° 3	6°11	10°32	10° 0	17° 2	18°22	11°38	13°39
T 6	1 0 50	13°17'36	29°35	4°16	18°42	8° 4	25° 4	16° 2	6°14	10°33	10° 0	16°58	18°19	11°44	13°44
W 7	1 4 47	14°17'00	11♁44	6° 1	19°57	8°38	25°17	16° 1	6°16	10°35	9°59	16°D56	18°16	11°51	13°49
T 8	1 8 44	15°16'26	24° 5	7°46	21°12	9°12	25°30	16° 0	6°19	10°36	9°59	16°57	18°13	11°58	13°54
F 9	1 12 40	16°15'54	6♁43	9°31	22°26	9°46	25°42	15°59	6°22	10°38	9°58	16°57	18°10	12° 4	13°59
S 10	1 16 37	17°15'24	19°42	11°15	23°41	10°20	25°55	15°58	6°24	10°39	9°57	16°R58	18° 6	12°11	14° 4
S 11	1 20 33	18°14'57	3♁ 7	12°59	24°57	10°54	26° 7	15°56	6°27	10°41	9°57	16°56	18° 3	12°18	14° 9
M12	1 24 30	19°14'32	16°59	14°43	26°12	11°28	26°20	15°55	6°30	10°42	9°56	16°53	18° 0	12°25	14°14
T 13	1 28 26	20°14'09	1♁ 19	16°26	27°27	12° 1	26°32	15°53	6°33	10°44	9°55	16°48	17°57	12°31	14°19
W14	1 32 23	21°13'49	1♁ 6	18° 9	28°42	12°35	26°44	15°51	6°35	10°45	9°55	16°41	17°54	12°38	14°23
T 15	1 36 19	22°13'31	1♂12	19°51	29°57	13° 8	26°57	15°50	6°38	10°47	9°54	16°32	17°51	12°45	14°28
F 16	1 40 16	23°13'15	16°28	21°32	1♁12	13°41	27° 9	15°48	6°41	10°49	9°53	16°24	17°47	12°51	14°32
S 17	1 44 13	24°13'00	1♁45	23°13	2°27	14°14	27°21	15°46	6°44	10°50	9°52	16°17	17°44	12°58	14°37
S 18	1 48 9	25°12'48	16°50	24°53	3°42	14°47	27°34	15°43	6°47	10°52	9°52	16°11	17°41	13° 5	14°41
M19	1 52 6	26°12'38	1♁35	26°33	4°57	15°20	27°46	15°41	6°50	10°54	9°51	16° 8	17°38	13°12	14°45
T 20	1 56 2	27°12'30	15°54	28°12	6°12	15°53	27°58	15°39	6°53	10°55	9°50	16°D 7	17°35	13°18	14°49
W21	1 59 59	28°12'23	29°44	29°51	7°27	16°25	28°10	15°36	6°56	10°57	9°49	16° 8	17°31	13°25	14°53
T 22	2 3 55	29°12'18	13♁ 7	1♁29	8°42	16°58	28°22	15°34	6°59	10°59	9°49	16° 9	17°28	13°32	14°57
F 23	2 7 52	0♁12'15	26° 5	3° 7	9°57	17°30	28°34	15°31	7° 2	11° 1	9°48	16°R10	17°25	13°38	15° 1
S 24	2 11 48	1°12'14	8♁42	4°44	11°12	18° 2	28°46	15°28	7° 5	11° 3	9°47	16°10	17°22	13°45	15° 5
S 25	2 15 45	2°12'14	21° 1	6°20	12°27	18°34	28°58	15°26	7° 9	11° 4	9°46	16° 8	17°19	13°52	15° 8
M26	2 19 42	3°12'15	3♁ 9	7°56	13°42	19° 6	29°10	15°23	7°12	11° 6	9°45	16° 4	17°16	13°58	15°12
T 27	2 23 38	4°12'18	15° 7	9°32	14°57	19°37	29°21	15°20	7°15	11° 8	9°44	15°58	17°12	14° 5	15°15
W28	2 27 35	5°12'23	27° 1	11° 7	16°12	20° 9	29°33	15°17	7°18	11°10	9°43	15°51	17° 9	14°12	15°19
T 29	2 31 31	6°12'30	8♀53	12°42	17°27	20°40	29°45	15°13	7°21	11°12	9°42	15°43	17° 6	14°19	15°22
F 30	2 35 28	7°12'38	20°45	14°16	18°42	21°11	29°56	15°10	7°25	11°14	9°41	15°36	17° 3	14°25	15°25
S 31	2 39 24	8♁12'48	2♁39	15♁50	19♁57	21♁42	0♂ 8	15♁ 7	7♁28	11♁16	9♁40	15♁29	17♁ 0	14♀32	15♁28

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	3s19	4s28	4s54	3n32	1n55	3s51	1n10	20n 8	1n10	3n23	1n 5	21n 4	1s42	21s19	0n 3	20s36	1n28	11n34	10s33	22n55	23n 0	0n 3	10n40	6s27
F 2	3 43	0n31	4 35	2 50	1 55	4 21	1 9	20 1	1 11	3 18	1 5	21 4	1 42	21 19	0 3	20 36	1 28	11 34	10 33	22 54	22 59	0 6	10 38	6 28
S 3	4 6	5 29	4 3	2 8	1 54	4 51	1 8	19 53	1 12	3 13	1 5	21 3	1 42	21 19	0 3	20 37	1 28	11 33	10 33	22 53	22 59	0 9	10 36	6 28
S 4	4 29	10 17	3 21	1 24	1 52	5 22	1 6	19 45	1 12	3 8	1 5	21 3	1 43	21 20	0 3	20 37	1 28	11 33	10 33	22 52	22 59	0 12	10 35	6 29
M 5	4 52	14 43	2 30	0 40	1 49	5 52	1 5	19 37	1 13	3 3	1 5	21 3	1 43	21 20	0 3	20 37	1 28	11 33	10 33	22 51	22 59	0 15	10 33	6 29
T 6	5 15	18 37	1 31	0s 4	1 46	6 22	1 3	19 29	1 14	2 58	1 5	21 3	1 43	21 21	0 3	20 37	1 28	11 33	10 33	22 51	22 58	0 18	10 31	6 30
W 7	5 39	21 47	0 28	0 49	1 43	6 52	1 2	19 21	1 15	2 53	1 5	21 3	1 43	21 21	0 3	20 38	1 28	11 32	10 33	22 51	22 58	0 21	10 29	6 30
T 8	6 2	23 59	0n38	1 34	1 39	7 21	1 0	19 13	1 16	2 48	1 5	21 3	1 43	21 22	0 3	20 38	1 28	11 32	10 34	22 51	22 58	0 24	10 27	6 31
F 9	6 25	22 1	1 44	2 20	1 34	7 51	0 58	19 5	1 17	2 43	1 6	21 2	1 43	21 22	0 3	20 38	1 28	11 32	10 34	22 51	22 57	0 27	10 25	6 31
S 10	6 47	24 46	2 46	3 5	1 30	8 20	0 57	18 56	1 18	2 38	1 6	21 2	1 43	21 23	0 3	20 38	1 28	11 32	10 34	22 51	22 57	0 30	10 23	6 32
S 11	7 10	23 5	3 41	3 50	1 25	8 50	0 55	18 48	1 19	2 33	1 6	21 2	1 43	21 23	0 3	20 39	1 28	11 32	10 34	22 51	22 57	0 33	10 21	6 32
M12	7 33	19 59	4 25	4 35	1 19	9 19	0 53	18 40	1 20	2 28	1 6	21 2	1 43	21 23	0 3	20 39	1 28	11 31	10 34	22 50	22 57	0 36	10 19	6 33
T 13	7 55	15 36	4 55	5 20	1 14	9 47	0 51	18 31	1 21	2 23	1 6	21 1	1 43	21 24	0 3	20 39	1 28	11 31	10 34	22 50	22 56	0 39	10 17	6 33
W14	8 18	10 11	5 5	6 5	1 8	10 16	0 49	18 23	1 22	2 18	1 6	21 1	1 43	21 24	0 3	20 39	1 28	11 31	10 34	22 49	22 56	0 42	10 16	6 34
T 15	8 40	4 3	4 56	6 49	1 2	10 44	0 47	18 14	1 23	2 14	1 6	21 1	1 44	21 25	0 3	20 40	1 27	11 31	10 35	22 48	22 56	0 45	10 14	6 34
F 16	9 2	2s25	4 25	7 33	0 56	11 12	0 45	18 6	1 24	2 9	1 6	21 1	1 44	21 25	0 3	20 40	1 27	11 30	10 35	22 47	22 55	0 48	10 12	6 35
S 17	9 24	8 44	3 35	8 16	0 50	11 40	0 43	17 57	1 25	2 4	1 6	21 0	1 44	21 26	0 3	20 40	1 27	11 30	10 35	22 47	22 55	0 50	10 10	6 36
S 18	9 46	14 29	2 31	8 59	0 44	12 8	0 41	17 48	1 26	1 59	1 6	21 0	1 44	21 26	0 3	20 41	1 27	11 30	10 35	22 46	22 55	0 53	10 8	6 36
M19	10 8	19 15	1 18	9 41	0 37	12 35	0 39	17 39	1 27	1 55	1 7	21 0	1 44	21 27	0 3	20 41	1 27	11 30	10 35	22 46	22 55	0 56	10 7	6 37
T 20	10 30	22 43	0 1	10 23	0 31	13 2	0 37	17 31	1 28	1 50	1 7	20 59	1 44	21 27	0 3	20 41	1 27	11 29	10 35	22 46	22 54	0 59	10 5	6 37
W21	10 51	24 42	1s13	11 4	0 24	13 29	0 35	17 22	1 29	1 45	1 7	20 59	1 44	21 28	0 3	20 41	1 27	11 29	10 35	22 46	22 54	1 2	10 3	6 38
T 22	11 13	25 10	2 20	11 45	0 17	13 55	0 32	17 13	1 30	1 40	1 7	20 59	1 44	21 29	0 3	20 42	1 27	11 29	10 35	22 46	22 54	1 5	10 1	6 38
F 23	11 34	24 14	3 19	12 25	0 11	14 21	0 30	17 4	1 31	1 36	1 7	20 58	1 44	21 29	0 3	20 42	1 27	11 29	10 36	22 46	22 53	1 8	10 0	6 39
S 24	11 55	22 4	4 6	13 4	0 4	14 47	0 28	16 55	1 32	1 31	1 7	20 58	1 44	21 30	0 3	20 42	1 27	11 29	10 36	22 46	22 53	1 11	9 58	6 40
S 25	12 16	18 56	4 40	13 42	0s 3	15 12	0 26	16 46	1 33	1 26	1 7	20 58	1 44	21 30	0 3	20 43	1 27	11 28	10 36	22 46	22 53	1 14	9 56	6 40
M26	12 36	15 3	5 1	14 20	0 10	15 37	0 23	16 37	1 34	1 22	1 7	20 57	1 44	21 31	0 3	20 43	1 27	11 28	10 36	22 45	22 52	1 17	9 55	6 41
T 27	12 57	10 37	5 9	14 57	0 16	16 1	0 21	16 28	1 36	1 17	1 7	20 57	1 44	21 31	0 3	20 43	1 27	11 28	10 36	22 45	22 52	1 20	9 53	6 42
W28	13 17	5 49	5 3	15 34	0 23	16 25	0 19	16 19	1 37	1 13	1 8	20 56	1 44	21 32	0 3	20 43	1 27	11 28	10 36	22 44	22 52	1 23	9 52	6 42
T 29	13 37	0 50	4 44	16 9	0 30	16 49																		

SWISS EPHEMERIS for the year 1648

NOVEMBER 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	2 43 21	9 ^m 13'00	14 ^h 37	17 ^m 24	21 ^m 13	22 ^m 13	0 ^h 19	15 ^h R 3	7 ^h 31	11 ^h 18	9 ^h R39	15 ^h R23	16 ^h II56	14 ^h Y39	15 ^h Ω31
M 2	2 47 17	10 ^m 13'13	26 ^h 40	18 ^m 57	22 ^m 28	22 ^m 44	0 ^h 30	15 ^h II 0	7 ^h 35	11 ^h 20	9 ^h II39	15 ^h II20	16 ^h 53	14 ^h 45	15 ^h 34
T 3	2 51 14	11 ^m 13'29	8 ^h II50	20 ^m 30	23 ^m 43	23 ^m 14	0 ^h 42	14 ^h 56	7 ^h 38	11 ^h 22	9 ^h 38	15 ^h 18	16 ^h 50	14 ^h 52	15 ^h 37
W 4	2 55 11	12 ^m 13'46	21 ^h 10	22 ^m 2	24 ^m 58	23 ^m 44	0 ^h 53	14 ^h 52	7 ^h 41	11 ^h 24	9 ^h 37	15 ^h D18	16 ^h 47	14 ^h 59	15 ^h 40
T 5	2 59 7	13 ^m 14'06	3 ^h Ω41	23 ^m 34	26 ^m 13	24 ^m 15	1 ^h 4	14 ^h 49	7 ^h 45	11 ^h 26	9 ^h 36	15 ^h 19	16 ^h 44	15 ^h 6	15 ^h 42
F 6	3 3 4	14 ^m 14'27	16 ^h 25	25 ^m 6	27 ^m 28	24 ^m 44	1 ^h 15	14 ^h 45	7 ^h 48	11 ^h 28	9 ^h 35	15 ^h 21	16 ^h 41	15 ^h 12	15 ^h 45
S 7	3 7 0	15 ^m 14'50	29 ^h 27	26 ^m 38	28 ^m 43	25 ^m 14	1 ^h 26	14 ^h 41	7 ^h 52	11 ^h 30	9 ^h 33	15 ^h 23	16 ^h 37	15 ^h 19	15 ^h 47
S 8	3 10 57	16 ^m 15'15	12 ^h Ω49	28 ^m 9	29 ^m 58	25 ^m 44	1 ^h 37	14 ^h 37	7 ^h 55	11 ^h 32	9 ^h 32	15 ^h R23	16 ^h 34	15 ^h 26	15 ^h 50
M 9	3 14 53	17 ^m 15'42	26 ^h 32	29 ^m 40	1 ^h 13	26 ^m 13	1 ^h 48	14 ^h 33	7 ^h 59	11 ^h 34	9 ^h 31	15 ^h 23	16 ^h 31	15 ^h 32	15 ^h 52
T 10	3 18 50	18 ^m 16'11	10 ^h η39	1 ^h 10	2 ^h 28	26 ^h 42	1 ^h 59	14 ^h 29	8 ^h 2	11 ^h 36	9 ^h 30	15 ^h 22	16 ^h 28	15 ^h 39	15 ^h 54
W 11	3 22 46	19 ^m 16'42	25 ^h 7	2 ^h 41	3 ^h 43	27 ^m 11	2 ^h 10	14 ^h 25	8 ^h 6	11 ^h 38	9 ^h 29	15 ^h 19	16 ^h 25	15 ^h 46	15 ^h 56
T 12	3 26 43	20 ^m 17'15	9 ^h Ω53	4 ^h 10	4 ^h 58	27 ^m 40	2 ^h 20	14 ^h 20	8 ^h 9	11 ^h 41	9 ^h 28	15 ^h 15	16 ^h 22	15 ^h 52	15 ^h 58
F 13	3 30 40	21 ^m 17'49	24 ^h 50	5 ^h 40	6 ^h 13	28 ^m 9	2 ^h 31	14 ^h 16	8 ^h 13	11 ^h 43	9 ^h 27	15 ^h 12	16 ^h 18	15 ^h 59	16 ^h 0
S 14	3 34 36	22 ^m 18'25	9 ^h Ω52	7 ^h 9	7 ^h 28	28 ^m 37	2 ^h 41	14 ^h 12	8 ^h 16	11 ^h 45	9 ^h 26	15 ^h 9	16 ^h 15	16 ^h 6	16 ^h 1
S 15	3 38 33	23 ^m 19'03	24 ^h 48	8 ^h 38	8 ^h 43	29 ^m 5	2 ^h 52	14 ^h 7	8 ^h 20	11 ^h 47	9 ^h 25	15 ^h 7	16 ^h 12	16 ^h 13	16 ^h 3
M 16	3 42 29	24 ^m 19'42	9 ^h ♁31	10 ^h 6	9 ^h 58	29 ^m 33	3 ^h 2	14 ^h 3	8 ^h 23	11 ^h 49	9 ^h 24	15 ^h D 6	16 ^h 9	16 ^h 19	16 ^h 4
T 17	3 46 26	25 ^m 20'23	23 ^h 52	11 ^h 34	11 ^h 14	0 ^h η 1	3 ^h 12	13 ^h 58	8 ^h 27	11 ^h 51	9 ^h 23	15 ^h 6	16 ^h 6	16 ^h 26	16 ^h 6
W 18	3 50 22	26 ^m 21'05	7 ^h Ω50	13 ^h 2	12 ^h 29	0 ^h 29	3 ^h 22	13 ^h 54	8 ^h 31	11 ^h 54	9 ^h 22	15 ^h 7	16 ^h 2	16 ^h 33	16 ^h 7
T 19	3 54 19	27 ^m 21'48	21 ^h 20	14 ^h 28	13 ^h 44	0 ^h 56	3 ^h 32	13 ^h 49	8 ^h 34	11 ^h 56	9 ^h 21	15 ^h 8	15 ^h 59	16 ^h 39	16 ^h 8
F 20	3 58 15	28 ^m 22'32	4 ^h Ω26	15 ^h 54	14 ^h 59	1 ^h 23	3 ^h 42	13 ^h 44	8 ^h 38	11 ^h 58	9 ^h 19	15 ^h 10	15 ^h 56	16 ^h 46	16 ^h 9
S 21	4 2 12	29 ^m 23'17	17 ^h 8	17 ^h 20	16 ^h 14	1 ^h 50	3 ^h 52	13 ^h 40	8 ^h 42	12 ^h 0	9 ^h 18	15 ^h 11	15 ^h 53	16 ^h 53	16 ^h 10
S 22	4 6 9	0 ^h ♁24'04	29 ^h 31	18 ^h 44	17 ^h 29	2 ^h 16	4 ^h 1	13 ^h 35	8 ^h 45	12 ^h 2	9 ^h 17	15 ^h R11	15 ^h 50	17 ^h 0	16 ^h 11
M 23	4 10 5	1 ^h 24'51	11 ^h ♁38	20 ^h 8	18 ^h 44	2 ^h 42	4 ^h 11	13 ^h 30	8 ^h 49	12 ^h 5	9 ^h 16	15 ^h 11	15 ^h 47	17 ^h 6	16 ^h 11
T 24	4 14 2	2 ^h 25'39	23 ^h 38	21 ^h 30	19 ^h 59	3 ^h 8	4 ^h 20	13 ^h 25	8 ^h 53	12 ^h 7	9 ^h 15	15 ^h 10	15 ^h 43	17 ^h 13	16 ^h 12
W 25	4 17 58	3 ^h 26'28	5 ^h Y30	22 ^h 52	21 ^h 14	3 ^h 34	4 ^h 30	13 ^h 21	8 ^h 56	12 ^h 9	9 ^h 14	15 ^h 8	15 ^h 40	17 ^h 20	16 ^h 12
T 26	4 21 55	4 ^h 27'18	17 ^h 21	24 ^h 11	22 ^h 29	3 ^h 59	4 ^h 39	13 ^h 16	9 ^h 0	12 ^h 11	9 ^h 13	15 ^h 7	15 ^h 37	17 ^h 26	16 ^h 13
F 27	4 25 51	5 ^h 28'09	29 ^h 14	25 ^h 29	23 ^h 44	4 ^h 25	4 ^h 48	13 ^h 11	9 ^h 4	12 ^h 14	9 ^h 11	15 ^h 5	15 ^h 34	17 ^h 33	16 ^h 13
S 28	4 29 48	6 ^h 29'01	11 ^h ♁12	26 ^h 46	24 ^h 59	4 ^h 50	4 ^h 57	13 ^h 6	9 ^h 7	12 ^h 16	9 ^h 10	15 ^h 4	15 ^h 31	17 ^h 40	16 ^h 13
S 29	4 33 44	7 ^h 29'54	23 ^h 17	28 ^h 0	26 ^h 14	5 ^h 14	5 ^h 6	13 ^h 1	9 ^h 11	12 ^h 18	9 ^h 9	15 ^h 3	15 ^h 28	17 ^h 46	16 ^h R13
M 30	4 37 41	8 ^h 30'48	5 ^h II32	29 ^h 11	27 ^h 29	5 ^h η39	5 ^h Ω15	12 ^h II56	9 ^h 15	12 ^h 20	9 ^h II 8	15 ^h II 2	15 ^h II24	17 ^h Y53	16 ^h Ω13

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	14s36	13n43	2s39	17s51	0s49	17s57	0n 9	15n43	1n41	0n55	1n 8	20n55	1s45	21s34	0n 2	20s45	1n27	11n27	10s36	22n41	22n51	1n35	9n46	6s45
M 2	14 55	17 50	1 40	18 23	0 55	18 19	0 7	15 34	1 42	0 50	1 8	20 54	1 45	21 35	0 2	20 45	1 27	11 27	10 37	22 41	22 50	1 38	9 44	6 45
T 3	15 14	21 14	0 35	18 54	1 2	18 40	0 4	15 25	1 43	0 46	1 8	20 54	1 45	21 35	0 2	20 45	1 27	11 26	10 37	22 40	22 50	1 41	9 43	6 46
W 4	15 32	23 43	0n32	19 24	1 8	19 1	0 2	15 16	1 44	0 42	1 8	20 53	1 45	21 36	0 2	20 46	1 27	11 26	10 37	22 40	22 50	1 44	9 41	6 47
T 5	15 51	25 5	1 39	19 54	1 14	19 21	0s 1	15 7	1 46	0 37	1 9	20 53	1 45	21 36	0 2	20 46	1 27	11 26	10 37	22 41	22 49	1 47	9 40	6 47
F 6	16 9	25 9	2 42	20 22	1 20	19 41	0 3	14 59	1 47	0 33	1 9	20 53	1 45	21 37	0 2	20 46	1 27	11 26	10 37	22 41	22 49	1 50	9 39	6 48
S 7	16 26	23 52	3 39	20 49	1 25	20 0	0 6	14 50	1 48	0 29	1 9	20 52	1 45	21 37	0 2	20 46	1 27	11 26	10 37	22 41	22 49	1 52	9 37	6 49
S 8	16 44	21 13	4 25	21 16	1 31	20 19	0 8	14 41	1 49	0 25	1 9	20 52	1 45	21 38	0 2	20 47	1 27	11 25	10 37	22 41	22 48	1 55	9 36	6 49
M 9	17 1	17 20	4 57	21 41	1 36	20 37	0 11	14 32	1 50	0 20	1 9	20 51	1 45	21 38	0 2	20 47	1 27	11 25	10 37	22 41	22 48	1 58	9 35	6 50
T 10	17 18	12 24	5 13	22 5	1 42	20 55	0 13	14 23	1 51	0 16	1 9	20 51	1 45	21 39	0 2	20 47	1 27	11 25	10 37	22 41	22 48	2 1	9 33	6 51
W 11	17 35	6 40	5 9	22 29	1 47	21 12	0 16	14 14	1 53	0 12	1 10	20 50	1 45	21 40	0 2	20 48	1 27	11 25	10 37	22 40	22 47	2 4	9 32	6 51
T 12	17 51	0 27	4 46	22 51	1 51	21 28	0 18	14 5	1 54	0 8	1 10	20 50	1 45	21 40	0 2	20 48	1 27	11 25	10 37	22 40	22 47	2 7	9 31	6 52
F 13	18 7	5s53	4 2	23 12	1 56	21 44	0 21	13 56	1 55	0 4	1 10	20 49	1 45	21 41	0 2	20 48	1 27	11 24	10 37	22 40	22 47	2 10	9 30	6 53
S 14	18 23	11 55	3 2	23 31	2 0	21 59	0 23	13 47	1 56	0 0	1 10	20 49	1 45	21 41	0 2	20 49	1 27	11 24	10 37	22 39	22 46	2 13	9 29	6 53
S 15	18 38	17 14	1 50	23 50	2 4	22 13	0 26	13 39	1 57	0s 4	1 10	20 48	1 45	21 42	0 2	20 49	1 26	11 24	10 37	22 39	22 46	2 16	9 28	6 54
M 16	18 53	21 25	0 31	24 7	2 8	22 27	0 28	13 30	1 59	0 8	1 10	20 48	1 45	21 43	0 2	20 49	1 26	11 24	10 37	22 39	22 46	2 19	9 27	6 55
T 17	19 8	24 9	0s48	24 23	2 12	22 40	0 30	13 21	2 0	0 12	1 11	20 47	1 45	21 43	0 2	20 50	1 26	11 24	10 37	22 39	22 45	2 22	9 26	6 56
W 18	19 22	25 17	2 2	24 38	2 15	22 53	0 33	13 13	2 1	0 16	1 11	20 47	1 45	21 44	0 2	20 50	1 26	11 24	10 37	22 39	22 45	2 25	9 25	6 56
T 19	19 37	24 52	3 7	24 51	2 18	23 5	0 35	13 4	2 2	0 19	1 11	20												

SWISS EPHEMERIS for the year 1648

DECEMBER 1648 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
T 1	4 41 38	9♂31'43	17♂57	0♂19	28♂44	6♂3	5♂24	12°R51	9♂18	12♂23	9°R 7	15°D 2	15♂21	18°Y 0	16°R13	
W 2	4 45 34	10°32'39	0♂35	1°24	29°59	6°26	5°32	12♂46	9°22	12°25	9♂6	15♂3	15°18	18° 7	16♂12	
T 3	4 49 31	11°33'36	13°25	2°25	1♂14	6°50	5°41	12°41	9°26	12°27	9° 5	15° 3	15°15	18°13	16°12	
F 4	4 53 27	12°34'35	26°28	3°21	2°29	7°13	5°49	12°36	9°29	12°29	9° 3	15° 3	15°12	18°20	16°12	
S 5	4 57 24	13°35'34	9♂44	4°13	3°44	7°36	5°57	12°31	9°33	12°32	9° 2	15° 3	15° 8	18°27	16°11	
S 6	5 1 20	14°36'34	23°15	4°58	4°59	7°58	6° 5	12°26	9°37	12°34	9° 1	15° 3	15° 5	18°33	16°10	
M 7	5 5 17	15°37'36	7♂0	5°36	6°14	8°20	6°13	12°21	9°40	12°36	9° 0	15°R 3	15° 2	18°40	16° 9	
T 8	5 9 14	16°38'38	20°59	6° 7	7°28	8°42	6°21	12°17	9°44	12°39	8°59	15°D 3	14°59	18°47	16° 8	
W 9	5 13 10	17°39'42	5♂11	6°30	8°43	9° 4	6°29	12°12	9°48	12°41	8°58	15° 4	14°56	18°53	16° 7	
T 10	5 17 7	18°40'46	19°34	6°43	9°58	9°25	6°37	12° 7	9°51	12°43	8°56	15° 4	14°53	19° 0	16° 6	
F 11	5 21 3	19°41'52	4♂5	6°R47	11°13	9°45	6°44	12° 2	9°55	12°45	8°55	15° 4	14°49	19° 7	16° 5	
S 12	5 25 0	20°42'58	18°39	6°39	12°28	10° 6	6°51	11°57	9°58	12°48	8°54	15° 5	14°46	19°14	16° 3	
S 13	5 28 56	21°44'06	3♂10	6°20	13°43	10°26	6°59	11°52	10° 2	12°50	8°53	15° 5	14°43	19°20	16° 2	
M14	5 32 53	22°45'14	17°34	5°49	14°58	10°45	7° 6	11°47	10° 6	12°52	8°52	15°R 5	14°40	19°27	16° 0	
T 15	5 36 49	23°46'22	1♂44	5° 7	16°13	11° 4	7°12	11°42	10° 9	12°54	8°51	15° 5	14°37	19°34	15°59	
W16	5 40 46	24°47'31	15°35	4°13	17°28	11°23	7°19	11°38	10°13	12°57	8°50	15° 4	14°34	19°40	15°57	
T 17	5 44 43	25°48'41	29° 6	3°10	18°43	11°41	7°26	11°33	10°16	12°59	8°49	15° 3	14°30	19°47	15°55	
F 18	5 48 39	26°49'50	12♂14	1°58	19°57	11°59	7°32	11°28	10°20	13° 1	8°48	15° 1	14°27	19°54	15°53	
S 19	5 52 36	27°51'00	25° 0	0°40	21°12	12°17	7°39	11°24	10°24	13° 3	8°47	14°59	14°24	20° 0	15°51	
S 20	5 56 32	28°52'10	7♂28	29♂19	22°27	12°34	7°45	11°19	10°27	13° 5	8°45	14°58	14°21	20° 7	15°49	
M21	6 0 29	29°53'20	19°39	27°57	23°42	12°50	7°51	11°14	10°31	13° 8	8°44	14°57	14°18	20°14	15°46	
T 22	6 4 25	0♂54'29	1°Y39	26°36	24°57	13° 6	7°56	11°10	10°34	13°10	8°43	14°D57	14°14	20°21	15°44	
W23	6 8 22	1°55'39	13°31	25°20	26°11	13°22	8° 2	11° 5	10°38	13°12	8°42	14°57	14°11	20°27	15°41	
T 24	6 12 18	2°56'49	25°22	24°11	27°26	13°37	8° 8	11° 1	10°41	13°14	8°41	14°58	14° 8	20°34	15°39	
F 25	6 16 15	3°57'58	7♂15	23° 9	28°41	13°51	8°13	10°57	10°45	13°16	8°40	15° 0	14° 5	20°41	15°36	
S 26	6 20 12	4°59'08	19°16	22°17	29°56	14° 6	8°18	10°52	10°48	13°18	8°39	15° 1	14° 2	20°47	15°33	
S 27	6 24 8	6° 0'17	1♂27	21°36	1♂10	14°19	8°23	10°48	10°51	13°21	8°38	15° 3	13°59	20°54	15°31	
M28	6 28 5	7° 1'26	13°52	21° 4	2°25	14°32	8°28	10°44	10°55	13°23	8°37	15°R 3	13°55	21° 1	15°28	
T 29	6 32 1	8° 2'36	26°33	20°43	3°40	14°45	8°33	10°40	10°58	13°25	8°36	15° 3	13°52	21° 7	15°25	
W30	6 35 58	9° 3'45	9♂31	20°32	4°54	14°57	8°37	10°36	11° 2	13°27	8°35	15° 1	13°49	21°14	15°21	
T 31	6 39 54	10♂4'54	22♂45	20°D30	6♂9	15♂8	8♂42	10♂32	11♂5	13♂29	8♂34	14♂58	13♂46	21♂21	15♂18	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁	♁								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
T 1	21s55	23n12	0n16	25s42	2s13	24s31	1s 2	11n27	2n19	1s 2	1n13	20n40	1s44	21s51	0n 2	20s54								
W 2	22 4 24 54	1 25 25 37	2 8 24 33	1 4 11 20	2 20 1 5	1 13 20 39	1 44 21 52	0 2 20 54	1 26 11 21	10 37 22 39	22 40 3 7	9 14 7 6												
T 3	22 13 25 19	2 31 25 30	2 3 24 35	1 6 11 13	2 21 1 8	1 14 20 39	1 44 21 52	0 2 20 54	1 26 11 21	10 37 22 39	22 40 3 10	9 13 7 6												
F 4	22 21 24 20	3 30 25 22	1 56 24 36	1 8 11 5	2 23 1 11	1 14 20 38	1 44 21 53	0 2 20 55	1 26 11 21	10 37 22 39	22 40 3 13	9 13 7 7												
S 5	22 29 22 0	4 19 25 13	1 48 24 36	1 10 10 58	2 24 1 14	1 14 20 38	1 44 21 53	0 2 20 55	1 26 11 21	10 37 22 39	22 39 3 16	9 12 7 8												
S 6	22 36 18 26	4 55 25 2	1 39 24 36	1 12 10 51	2 26 1 17	1 14 20 37	1 44 21 54	0 2 20 55	1 26 11 21	10 37 22 39	22 39 3 19	9 12 7 8												
M 7	22 43 13 49	5 14 24 51	1 29 24 34	1 14 10 44	2 27 1 20	1 14 20 36	1 44 21 54	0 2 20 56	1 26 11 21	10 37 22 39	22 39 3 22	9 12 7 9												
T 8	22 49 8 25	5 16 24 38	1 17 24 32	1 16 10 37	2 29 1 23	1 15 20 36	1 44 21 55	0 2 20 56	1 26 11 21	10 37 22 39	22 38 3 25	9 11 7 10												
W 9	22 55 2 30	4 58 24 24	1 4 24 29	1 17 10 30	2 30 1 26	1 15 20 35	1 43 21 56	0 2 20 56	1 26 11 21	10 37 22 39	22 38 3 28	9 11 7 10												
T 10	23 0 3s38	4 22 24 9	0 50 24 25	1 19 10 24	2 32 1 29	1 15 20 35	1 43 21 56	0 2 20 56	1 26 11 21	10 37 22 39	22 38 3 31	9 11 7 11												
F 11	23 5 9 38	3 28 23 53	0 35 24 21	1 21 10 17	2 33 1 32	1 15 20 34	1 43 21 57	0 2 20 57	1 26 11 21	10 36 22 39	22 37 3 34	9 10 7 12												
S 12	23 10 15 8	2 22 23 37	0 18 24 16	1 22 10 11	2 35 1 34	1 15 20 34	1 43 21 57	0 2 20 57	1 26 11 20	10 36 22 39	22 37 3 37	9 10 7 12												
S 13	23 14 19 46	1 6 23 20	0 0 24 10	1 24 10 5	2 36 1 37	1 16 20 33	1 43 21 58	0 2 20 57	1 26 11 20	10 36 22 39	22 36 3 40	9 10 7 13												
M14	23 17 23 8	0s14 23 3	0n19 24 3	1 25 9 59	2 38 1 39	1 16 20 33	1 43 21 58	0 2 20 58	1 26 11 20	10 36 22 39	22 36 3 43	9 10 7 13												
T 15	23 20 24 59	1 31 22 45	0 38 23 56	1 27 9 53	2 40 1 42	1 16 20 32	1 43 21 59	0 2 20 58	1 26 11 20	10 36 22 39	22 36 3 46	9 10 7 14												
W16	23 23 25 14	2 41 22 27	0 58 23 48	1 28 9 47	2 41 1 44	1 16 20 32	1 43 21 59	0 2 20 58	1 26 11 20	10 36 22 39	22 35 3 49	9 10 7 15												
T 17	23 25 23 58	3 40 22 9	1 18 23 39	1 29 9 42	2 43 1 47	1 17 20 31	1 42 22 0	0 2 20 58	1 26 11 20	10 36 22 39	22 35 3 51	9 10 7 15												
F 18	23 27 21 25	4 26 21 51	1 38 23 30	1 31 9 37	2 44 1 49	1 17 20 31	1 42 22 0	0 2 20 59	1 26 11 20	10 36 22 39	22 35 3 54	9 10 7 16												
S 19	23 28 17 52	4 57 21 33	1 56 23 19	1 32 9 31	2 46 1 51	1 17 20 30	1 42 22 1	0 2 20 59	1 26 11 20	10 36 22 38	22 34 3 57	9 10 7 16												
S 20	23 29 13 38	5 14 21 16	2 13 23 8	1 33 9 26	2 48 1 54	1 17 20 30	1 42 22 1	0 2 20 59	1 26 11 20	10 36 22 38	22 34 4 0	9 10 7 17												
M21	23 29 8 56	5 15 21 0	2 28 22 57	1 34 9 22	2 49 1 56	1 18 20 29	1 42 22 2	0 2 21 0	1 26 11 20	10 35 22 38	22 34 4 3	9 10 7 17												
T 22	23 29 3 59	5 3 20 45	2 42 22 44	1 35 9 17	2 51 1 58	1 18 20 29	1 42 22 3	0 2 21 0	1 26 11 20	10 35 22 38	22 33 4 6	9 10 7 18												
W23	23 28 1n 5	4 38 20 32	2 52 22 31	1 36 9 13	2 53 2 0	1 18 20 28	1 42 22 3	0 2 21 0	1 26 11 20	10 35 22 38	22 33 4 9	9 11 7 18												
T 24	23 27 6 5	4 1 20 21	3 0 22 18	1 37 9 8	2 54 2 2	1 18 20 28	1 41 22 4	0 2 21 0	1 26 11 20	10 35 22 38	22 32 4 12	9 11 7 19												
F 25	23 26 10 54	3 14 20 13	3 6 22 3	1 38 9 4	2 56 2 4	1 19 20 27	1 41 22 4	0 2 21 1	1 26 11 20	10 35 22 38	22 32 4 15	9 11 7 19												
S 26	23 23 15 22	2 18 20 6	3 10 21 48	1 38 9 0	2 58 2 6	1 19 20 27	1 41 22 5	0 2 21 1	1 26 11 20	10 35 22 39	22 32 4 18	9 11 7 20												
S 27	23 21 19 17	1 14 20 3	3 11 21 33	1 39 8 57	3 0 2 7	1 19 20 27	1 41 22 5	0 2 21 1	1 26 11 20	10 35 22 39	22 31 4 21	9 12 7 20												
M28	23 18 22 24	0 7 20 1	3 10 21 16	1 39 8 53	3 1 2 9	1 19 20 26	1 41 22 5	0 2 21 1	1 26 11 20	10 34 22 39	22 31 4 24	9 12 7 21												
T 29	23 14 24 29	1n 3 20 2	3 8 21 0	1 40 8 50	3 3 2 11	1 20 20 26	1 40 22 6	0 2 21 2	1 26 11 20	10 34 22 39	22 31 4 27	9 13 7 21												
W30	23 11 25 19	2 11 20 5	3 4 20 42	1 40 8 47	3 5 2 12	1 20 20 25	1 40 22 6	0 2 21 2	1 26 11 20	10 34 22 39	22 30 4 30	9 13 7 22												
T 31	23s 6	24n43	3n12	20s10	2n59	20s24	1s41	8n44	3n 7	2s14	1n20	20n25	1s40	22s 7	0n 2	21s 2	1n26	11n20	10s34	22n38	22n30	4n33	9n14	7s22

Julian Day Number = 2323314.5, Delta T = 47.38 sec
 Ecliptic obliquity = 23°29'08, Nutation = - 0°00'18
 Ayanamsha: Fagan/Bradley = 19°50'24, Lahiri = 18°57'24Greg. Calendar