

SWISS EPHEMERIS for the year 1644

JANUARY 1644 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	6 40 45	10♌17'59	27♎21	23♌56	17♌40	16♌47	15♌52	1♏39	19♎53	2♌58	3♁37	19♎28	20♎28	27♎47	16♁28
S 2	6 44 42	11°19'08	9♎ 9	25°24	18°55	17°31	15°57	1°42	19°56	3° 0	3♁36	19°R28	20°25	27°54	16♁25
S 3	6 48 38	12°20'18	21° 1	26°53	20°11	18°15	16° 2	1°45	19°58	3° 2	3°36	19°28	20°21	28° 0	16°22
M 4	6 52 35	13°21'28	3♎ 1	28°23	21°26	18°59	16° 6	1°48	20° 1	3° 4	3°35	19°26	20°18	28° 7	16°18
T 5	6 56 31	14°22'38	15°19	29°53	22°42	19°42	16°11	1°52	20° 4	3° 6	3°34	19°21	20°15	28°14	16°15
W 6	7 0 28	15°23'48	27°55	1♌23	23°57	20°26	16°17	1°55	20° 6	3° 7	3°33	19°14	20°12	28°20	16°12
T 7	7 4 24	16°24'58	10♌52	2°54	25°12	21°10	16°22	1°59	20° 9	3° 9	3°32	19° 5	20° 9	28°27	16° 9
F 8	7 8 21	17°26'07	24°13	4°25	26°28	21°54	16°28	2° 2	20°11	3°11	3°31	18°54	20° 6	28°34	16° 5
S 9	7 12 18	18°27'17	7♌55	5°57	27°43	22°38	16°33	2° 6	20°13	3°13	3°31	18°44	20° 2	28°40	16° 2
S 10	7 16 14	19°28'26	21°57	7°30	28°58	23°22	16°39	2°10	20°16	3°14	3°30	18°33	19°59	28°47	15°59
M 11	7 20 11	20°29'34	6♎12	9° 3	0♎14	24° 6	16°45	2°13	20°18	3°16	3°29	18°25	19°56	28°53	15°56
T 12	7 24 7	21°30'42	20°36	10°36	1°29	24°51	16°51	2°17	20°20	3°18	3°28	18°19	19°53	29° 0	15°54
W 13	7 28 4	22°31'49	5♁ 3	12°10	2°44	25°35	16°58	2°21	20°23	3°19	3°28	18°16	19°50	29° 7	15°51
T 14	7 32 0	23°32'56	19°27	13°45	4° 0	26°19	17° 5	2°26	20°25	3°21	3°27	18°D16	19°46	29°13	15°48
F 15	7 35 57	24°34'01	3♏45	15°20	5°15	27° 3	17°11	2°30	20°27	3°23	3°26	18°16	19°43	29°20	15°45
S 16	7 39 53	25°35'05	17°55	16°55	6°30	27°48	17°18	2°34	20°29	3°24	3°26	18°17	19°40	29°27	15°43
S 17	7 43 50	26°36'09	1♌56	18°31	7°46	28°32	17°25	2°38	20°31	3°26	3°25	18°R17	19°37	29°33	15°40
M 18	7 47 47	27°37'11	15°46	20° 8	9° 1	29°16	17°33	2°43	20°33	3°27	3°25	18°16	19°34	29°40	15°37
T 19	7 51 43	28°38'13	29°27	21°45	10°16	0♌ 1	17°40	2°47	20°35	3°29	3°24	18°12	19°31	29°47	15°35
W 20	7 55 40	29°39'13	12♎57	23°23	11°31	0°45	17°47	2°52	20°37	3°30	3°23	18° 6	19°27	29°53	15°33
T 21	7 59 36	0♎40'13	26°15	25° 2	12°46	1°30	17°55	2°57	20°39	3°32	3°23	17°58	19°24	29°59	15°30
F 22	8 3 33	1°41'11	9♌21	26°41	14° 2	2°14	18° 3	3° 2	20°40	3°33	3°22	17°50	19°21	0♎ 7	15°28
S 23	8 7 29	2°42'08	22°15	28°21	15°17	2°59	18°11	3° 6	20°42	3°34	3°22	17°41	19°18	0°13	15°26
S 24	8 11 26	3°43'05	4♎54	0♎ 1	16°32	3°43	18°19	3°11	20°44	3°36	3°21	17°34	19°15	0°20	15°24
M 25	8 15 22	4°44'00	17°20	1°42	17°47	4°28	18°28	3°16	20°46	3°37	3°21	17°28	19°12	0°27	15°22
T 26	8 19 19	5°44'54	29°33	3°24	19° 2	5°12	18°36	3°22	20°47	3°38	3°20	17°24	19° 8	0°33	15°20
W 27	8 23 16	6°45'48	11♎35	5° 7	20°17	5°57	18°45	3°27	20°49	3°40	3°20	17°D22	19° 5	0°40	15°18
T 28	8 27 12	7°46'40	23°28	6°50	21°32	6°42	18°53	3°32	20°50	3°41	3°19	17°22	19° 2	0°46	15°16
F 29	8 31 9	8°47'32	5♌17	8°34	22°48	7°27	19° 2	3°37	20°52	3°42	3°19	17°23	18°59	0°53	15°14
S 30	8 35 5	9°48'22	17° 4	10°18	24° 3	8°11	19°11	3°43	20°53	3°43	3°19	17°25	18°56	1° 0	15°12
S 31	8 39 2	10♎49'12	28♎55	12♎ 4	25♎18	8♌56	19♏20	3♏48	20♎54	3♌44	3♁18	17♎27	18♎52	1♎ 6	15♁11

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
F 1	23s 5	1n42	0n42	23s27	0s 6	23s19	1s 1	23s 8	0s18	5n 4	1s17	1s33	2s25	17s27	0n19	19s13	1n36	9n26	11s41	4n11	3n47	1n29	16n56	5s54
S 2	23 0	2s 3	1 43	23 37	0 13	23 11	1 3	23 13	0 19	5 6	1 17	1 32	2 25	17 27	0 19	19 13	1 36	9 26	11 41	4 11	3 48	1 27	16 55	5 54
S 3	22 55	5 45	2 40	23 47	0 20	23 2	1 5	23 17	0 20	5 8	1 17	1 31	2 24	17 28	0 19	19 14	1 36	9 26	11 41	4 11	3 50	1 25	16 55	5 54
M 4	22 49	9 15	3 31	23 56	0 27	22 52	1 6	23 22	0 20	5 10	1 16	1 29	2 24	17 29	0 19	19 14	1 36	9 26	11 40	4 12	3 51	1 24	16 55	5 53
T 5	22 42	12 26	4 13	24 3	0 34	22 41	1 8	23 26	0 21	5 12	1 16	1 28	2 24	17 29	0 19	19 14	1 36	9 26	11 40	4 13	3 52	1 22	16 55	5 53
W 6	22 36	15 7	4 44	24 9	0 41	22 30	1 9	23 30	0 22	5 15	1 16	1 26	2 24	17 30	0 19	19 14	1 37	9 26	11 40	4 16	3 53	1 20	16 55	5 53
T 7	22 28	17 9	5 1	24 14	0 47	22 18	1 11	23 33	0 22	5 17	1 16	1 24	2 23	17 31	0 19	19 15	1 37	9 26	11 40	4 20	3 55	1 18	16 54	5 53
F 8	22 21	18 19	5 3	24 18	0 54	22 5	1 12	23 37	0 23	5 19	1 15	1 23	2 23	17 31	0 19	19 15	1 37	9 26	11 39	4 24	3 56	1 16	16 54	5 53
S 9	22 13	18 28	4 47	24 21	1 0	21 52	1 14	23 40	0 24	5 22	1 15	1 21	2 23	17 32	0 19	19 15	1 37	9 26	11 39	4 28	3 57	1 14	16 54	5 53
S 10	22 4	17 30	4 15	24 22	1 6	21 38	1 15	23 43	0 24	5 24	1 15	1 19	2 23	17 33	0 19	19 16	1 37	9 26	11 39	4 32	3 58	1 13	16 54	5 53
M 11	21 55	15 26	3 26	24 21	1 11	21 23	1 16	23 46	0 25	5 27	1 14	1 18	2 23	17 33	0 19	19 16	1 37	9 27	11 39	4 35	4 0	1 11	16 54	5 52
T 12	21 46	12 24	2 23	24 20	1 17	21 8	1 18	23 48	0 26	5 30	1 14	1 16	2 22	17 34	0 19	19 16	1 37	9 27	11 39	4 38	4 1	1 9	16 54	5 52
W 13	21 36	8 35	1 10	24 17	1 22	20 52	1 19	23 51	0 26	5 32	1 14	1 14	2 22	17 34	0 19	19 17	1 37	9 27	11 38	4 39	4 2	1 7	16 54	5 52
T 14	21 26	4 17	0s 6	24 13	1 27	20 35	1 20	23 53	0 27	5 35	1 14	1 12	2 22	17 35	0 19	19 17	1 37	9 27	11 38	4 39	4 3	1 5	16 54	5 52
F 15	21 15	0n14	1 22	24 7	1 31	20 18	1 21	23 55	0 28	5 38	1 13	1 10	2 22	17 36	0 19	19 17	1 37	9 27	11 38	4 39	4 5	1 3	16 54	5 52
S 16	21 4	4 41	2 33	24 0	1 36	20 0	1 22	23 56	0 28	5 41	1 13	1 8	2 22	17 36	0 19	19 17	1 37	9 27	11 38	4 38	4 6	1 1	16 53	5 51
S 17	20 52	8 50	3 33	23 51	1 40	19 42	1 23	23 57	0 29	5 44	1 13	1 7	2 21	17 37	0 19	19 18	1 37	9 27	11 37	4 38	4 7	1 0	16 53	5 51
M 18	20 41	12 26	4 20	23 41	1 44	19 23	1 24	23 58	0 30	5 47	1 12	1 5	2 21	17 37	0 19	19 18	1 37	9 27	11 37	4 39	4 8	0 58	16 53	5 51
T 19	20 28	15 19	4 52	23 29	1 47	19 4	1 25	23 59	0 30	5 50	1 12	1 3	2 21	17 38	0 19	19 18	1 37	9 27	11 37	4 41	4 10	0 56	16 53	5 51
W 20	20 16	17 19	5 6	23 16	1 51	18 44	1 26	24 0	0 31	5 53	1 12	1 1	2 21	17 38	0 19	19 18	1 37	9 28	11 37	4 43	4 11	0 54	16 53	5 50
T 21	20 3	18 21	5 5	23 2	1 54	18 23	1 26	24 0	0 32	5 56	1 12	0 58	2 20	17 39	0 19	19 19	1 37	9 28	11 36	4 46	4 12	0 52	16 53	5 50
F 22	19 49	18 23	4 47	22 46	1 56	18 2	1 27	24 0	0 32	6 0	1 11	0 56	2 20	17 39	0 19	19 19	1 37	9 28	11 36	4 49	4 13	0 50	16 53	5 50
S 23	19 36	17 28	4 14	22 28	1 59	17 41	1 28	24 0	0 33	6 3	1 11	0 54	2 20	17 40	0 19	19 19	1 37	9 28	11 36	4 53	4 15	0 49	16 53	5 50
S 24	19 21	15 41	3 30	22																				

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	8 42 58	11 ^h 50'01"	10 ^m 56	13 ^h 50'	26 ^h 33'	9 ^h 34'	19 ^h 29'	3 ^h 54'	20 ^m 56	3 ^h 46'	3 ^h 18'	17 ^h 27'	18 ^m 49'	1 ^h 13'	15 ^h R 9
T 2	8 46 55	12 ^h 50'49"	23 ^h 10	15 ^h 36'	27 ^h 48'	10 ^h 26'	19 ^h 39'	3 ^h 59'	20 ^h 57'	3 ^h 47'	3 ^h 18'	17 ^h 27'	18 ^h 46'	1 ^h 20'	15 ^h II 8
W 3	8 50 51	13 ^h 51'36"	5 ^m 44	17 ^h 24'	29 ^h 3'	11 ^h 11'	19 ^h 48'	4 ^h 5'	20 ^h 58'	3 ^h 48'	3 ^h 17'	17 ^h 25'	18 ^h 43'	1 ^h 26'	15 ^h 6
T 4	8 54 48	14 ^h 52'22"	18 ^h 40'	19 ^h 12'	0 ^h 18'	11 ^h 56'	19 ^h 58'	4 ^h 11'	20 ^h 59'	3 ^h 49'	3 ^h 17'	17 ^h 21'	18 ^h 40'	1 ^h 33'	15 ^h 5
F 5	8 58 45	15 ^h 53'07"	2 ^h 3	21 ^h 0'	1 ^h 33'	12 ^h 41'	20 ^h 8'	4 ^h 17'	21 ^h 0'	3 ^h 50'	3 ^h 17'	17 ^h 17'	18 ^h 37'	1 ^h 40'	15 ^h 4
S 6	9 2 41	16 ^h 53'50"	15 ^h 51'	22 ^h 49'	2 ^h 48'	13 ^h 26'	20 ^h 18'	4 ^h 22'	21 ^h 1'	3 ^h 51'	3 ^h 17'	17 ^h 12'	18 ^h 33'	1 ^h 46'	15 ^h 3
S 7	9 6 38	17 ^h 54'33"	0 ^h 3	24 ^h 39'	4 ^h 2'	14 ^h 11'	20 ^h 28'	4 ^h 28'	21 ^h 2'	3 ^h 52'	3 ^h 16'	17 ^h 7'	18 ^h 30'	1 ^h 53'	15 ^h 2
M 8	9 10 34	18 ^h 55'14"	14 ^h 36'	26 ^h 29'	5 ^h 17'	14 ^h 56'	20 ^h 38'	4 ^h 34'	21 ^h 3'	3 ^h 53'	3 ^h 16'	17 ^h 3'	18 ^h 27'	2 ^h 0'	15 ^h 1
T 9	9 14 31	19 ^h 55'54"	29 ^h 22'	28 ^h 19'	6 ^h 32'	15 ^h 41'	20 ^h 48'	4 ^h 40'	21 ^h 4'	3 ^h 53'	3 ^h 16'	17 ^h 1'	18 ^h 24'	2 ^h 6'	15 ^h 0
W10	9 18 27	20 ^h 56'32"	14 ^h 15'	0 ^h 15'	7 ^h 47'	16 ^h 26'	20 ^h 58'	4 ^h 46'	21 ^h 5'	3 ^h 54'	3 ^h 16'	17 ^h D 0	18 ^h 21'	2 ^h 13'	14 ^h 59
T 11	9 22 24	21 ^h 57'09"	29 ^h 6'	1 ^h 58'	9 ^h 2'	17 ^h 12'	21 ^h 9'	4 ^h 53'	21 ^h 6'	3 ^h 55'	3 ^h 16'	17 ^h 0'	18 ^h 18'	2 ^h 20'	14 ^h 58
F 12	9 26 20	22 ^h 57'44"	13 ^h 48'	3 ^h 48'	10 ^h 17'	17 ^h 57'	21 ^h 20'	4 ^h 59'	21 ^h 6'	3 ^h 56'	3 ^h 16'	17 ^h 1'	18 ^h 14'	2 ^h 26'	14 ^h 57
S 13	9 30 17	23 ^h 58'17"	28 ^h 17'	5 ^h 37'	11 ^h 31'	18 ^h 42'	21 ^h 30'	5 ^h 5'	21 ^h 7'	3 ^h 57'	3 ^h 16'	17 ^h 3'	18 ^h 11'	2 ^h 33'	14 ^h 57
S 14	9 34 14	24 ^h 58'48"	12 ^h 28'	7 ^h 25'	12 ^h 46'	19 ^h 27'	21 ^h 41'	5 ^h 11'	21 ^h 8'	3 ^h 57'	3 ^h 15'	17 ^h 4'	18 ^h 8'	2 ^h 39'	14 ^h 56
M15	9 38 10	25 ^h 59'18"	26 ^h 21'	9 ^h 12'	14 ^h 1'	20 ^h 13'	21 ^h 52'	5 ^h 18'	21 ^h 8'	3 ^h 58'	3 ^h 15'	17 ^h R 4	18 ^h 5'	2 ^h 46'	14 ^h 56
T 16	9 42 7	26 ^h 59'45"	9 ^h 55'	10 ^h 57'	15 ^h 16'	20 ^h 58'	22 ^h 3'	5 ^h 24'	21 ^h 9'	3 ^h 59'	3 ^h D15	17 ^h 4'	18 ^h 2'	2 ^h 53'	14 ^h 56
W17	9 46 3	28 ^h 0'11"	23 ^h 12'	12 ^h 40'	16 ^h 30'	21 ^h 43'	22 ^h 14'	5 ^h 31'	21 ^h 9'	3 ^h 59'	3 ^h 15'	17 ^h 2'	17 ^h 58'	2 ^h 59'	14 ^h 55
T 18	9 50 0	29 ^h 0'35"	6 ^h 12'	14 ^h 20'	17 ^h 45'	22 ^h 29'	22 ^h 25'	5 ^h 37'	21 ^h 9'	4 ^h 0'	3 ^h 15'	17 ^h 0'	17 ^h 55'	3 ^h 6'	14 ^h 55
F 19	9 53 56	0 ^h 1'56"	18 ^h 58'	15 ^h 58'	18 ^h 59'	23 ^h 14'	22 ^h 37'	5 ^h 44'	21 ^h 10'	4 ^h 0'	3 ^h 16'	16 ^h 58'	17 ^h 52'	3 ^h 13'	14 ^h 55
S 20	9 57 53	1 ^h 1'16"	1 ^h 30'	17 ^h 32'	20 ^h 14'	23 ^h 59'	22 ^h 48'	5 ^h 50'	21 ^h 10'	4 ^h 1'	3 ^h 16'	16 ^h 55'	17 ^h 49'	3 ^h 19'	14 ^h D55
S 21	10 1 49	2 ^h 1'34"	13 ^h 51'	19 ^h 2'	21 ^h 29'	24 ^h 45'	23 ^h 0'	5 ^h 57'	21 ^h 10'	4 ^h 1'	3 ^h 16'	16 ^h 53'	17 ^h 46'	3 ^h 26'	14 ^h 55
M22	10 5 46	3 ^h 1'51"	26 ^h 1'	20 ^h 27'	22 ^h 43'	25 ^h 30'	23 ^h 11'	6 ^h 4'	21 ^h 10'	4 ^h 2'	3 ^h 16'	16 ^h 51'	17 ^h 43'	3 ^h 33'	14 ^h 55
T 23	10 9 43	4 ^h 2'05"	8 ^h 3'	21 ^h 47'	23 ^h 58'	26 ^h 16'	23 ^h 23'	6 ^h 11'	21 ^h 11'	4 ^h 2'	3 ^h 16'	16 ^h 50'	17 ^h 39'	3 ^h 39'	14 ^h 55
W24	10 13 39	5 ^h 2'18"	19 ^h 58'	23 ^h 1'	25 ^h 12'	27 ^h 1'	23 ^h 35'	6 ^h 17'	21 ^h R11	4 ^h 2'	3 ^h 16'	16 ^h D50	17 ^h 36'	3 ^h 46'	14 ^h 56
T 25	10 17 36	6 ^h 2'29"	1 ^h 49'	24 ^h 8'	26 ^h 26'	27 ^h 47'	23 ^h 46'	6 ^h 24'	21 ^h 11'	4 ^h 3'	3 ^h 16'	16 ^h 51'	17 ^h 33'	3 ^h 53'	14 ^h 56
F 26	10 21 32	7 ^h 2'38"	13 ^h 36'	25 ^h 8'	27 ^h 41'	28 ^h 32'	23 ^h 58'	6 ^h 31'	21 ^h 10'	4 ^h 3'	3 ^h 16'	16 ^h 51'	17 ^h 30'	3 ^h 59'	14 ^h 57
S 27	10 25 29	8 ^h 2'45"	25 ^h 25'	26 ^h 1'	28 ^h 55'	29 ^h 18'	24 ^h 10'	6 ^h 38'	21 ^h 10'	4 ^h 3'	3 ^h 17'	16 ^h 52'	17 ^h 27'	4 ^h 6'	14 ^h 57
S 28	10 29 25	9 ^h 2'51"	7 ^h 18'	26 ^h 45'	0 ^h 9'	0 ^h 4	24 ^h 22'	6 ^h 45'	21 ^h 10'	4 ^h 4'	3 ^h 17'	16 ^h 53'	17 ^h 23'	4 ^h 13'	14 ^h 58
M29	10 33 22	10 ^h 1'56"	19 ^h 18'	27 ^h 21'	1 ^h 24'	0 ^h 49'	24 ^h 35'	6 ^h 52'	21 ^h 10'	4 ^h 4'	3 ^h 17'	16 ^h 54'	17 ^h 20'	4 ^h 19'	14 ^h 59

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	17s16	11s 9	4n12	18s39	2s 2	14s 6	1s30	23s47	0s39	6n35	1s 9	0s34	2s18	17s43	0n19	19s21	1n38	9n30	11s34	4n58	4n26	0n32	16n54	5s47
T 2	16 59	14 0	4 45	18 5	2 0	13 40	1 30	23 44	0 40	6 38	1 9	0 32	2 18	17 43	0 19	19 21	1 38	9 30	11 33	4 58	4 27	0 30	16 54	5 47
W 3	16 42	16 16	5 6	17 31	1 57	13 14	1 30	23 41	0 40	6 42	1 8	0 29	2 18	17 44	0 19	19 21	1 38	9 30	11 33	4 59	4 28	0 28	16 55	5 46
T 4	16 24	17 48	5 13	16 54	1 54	12 47	1 30	23 38	0 41	6 46	1 8	0 27	2 18	17 44	0 19	19 21	1 38	9 30	11 33	5 0	4 30	0 26	16 55	5 46
F 5	16 6	18 25	5 3	16 16	1 51	12 20	1 30	23 34	0 42	6 50	1 8	0 24	2 18	17 44	0 19	19 21	1 38	9 31	11 33	5 2	4 31	0 24	16 55	5 46
S 6	15 48	17 59	4 35	15 37	1 47	11 53	1 29	23 30	0 42	6 54	1 8	0 22	2 18	17 45	0 19	19 21	1 38	9 31	11 32	5 4	4 32	0 23	16 55	5 45
S 7	15 30	16 26	3 50	14 56	1 42	11 26	1 29	23 26	0 43	6 58	1 7	0 19	2 18	17 45	0 19	19 22	1 38	9 31	11 32	5 6	4 33	0 21	16 55	5 45
M 8	15 11	13 47	2 49	14 14	1 37	10 58	1 28	23 22	0 44	7 2	1 7	0 17	2 17	17 45	0 19	19 22	1 38	9 31	11 32	5 7	4 35	0 19	16 56	5 45
T 9	14 52	10 13	1 35	13 30	1 31	10 29	1 28	23 18	0 44	7 6	1 7	0 14	2 17	17 45	0 19	19 22	1 38	9 31	11 31	5 8	4 36	0 17	16 56	5 44
W10	14 32	5 59	0 15	12 45	1 24	10 1	1 27	23 13	0 45	7 10	1 7	0 12	2 17	17 45	0 19	19 22	1 38	9 32	11 31	5 9	4 37	0 15	16 56	5 44
T 11	14 13	1 22	1s 6	11 59	1 17	9 32	1 27	23 8	0 46	7 14	1 7	0 9	2 17	17 46	0 19	19 22	1 38	9 32	11 31	5 9	4 38	0 13	16 56	5 44
F 12	13 53	3n16	2 22	11 12	1 9	9 3	1 26	23 3	0 46	7 18	1 6	0 7	2 17	17 46	0 19	19 22	1 38	9 32	11 31	5 8	4 40	0 11	16 57	5 43
S 13	13 33	7 38	3 28	10 25	1 1	8 34	1 25	22 57	0 47	7 23	1 6	0 4	2 17	17 46	0 19	19 22	1 38	9 33	11 30	5 7	4 41	0 10	16 57	5 43
S 14	13 13	11 28	4 20	9 36	0 51	8 5	1 24	22 51	0 48	7 27	1 6	0 1	2 17	17 46	0 19	19 22	1 38	9 33	11 30	5 7	4 42	0 8	16 57	5 43
M15	12 53	14 35	4 56	8 47	0 41	7 35	1 23	22 45	0 48	7 31	1 6	0n 1	2 16	17 46	0 19	19 22	1 38	9 33	11 30	5 7	4 43	0 6	16 57	5 42
T 16	12 32	16 49	5 13	7 57	0 31	7 5	1 22	22 39	0 49	7 35	1 6	0 4	2 16	17 46	0 19	19 22	1 38	9 33	11 29	5 7	4 45	0 4	16 58	5 42
W17	12 11	18 5	5 14	7 7	0 20	6 35	1 21	22 33	0 50	7 40	1 5	0 7	2 16	17 46	0 19	19 22	1 38	9 34	11 29	5 8	4 46	0 2	16 58	5 42
T 18	11 50	18 22	4 58	6 18	0 8	6 5	1 20	22 26	0 50	7 44	1 5	0 9	2 16	17 47	0 19	19 23	1 38	9 34	11 29	5 8	4 47	0 0	16 58	5 41
F 19	11 29	17 43	4 28	5 28	0n 5	5 35	1 19	22 19	0 51	7 48	1 5	0 12	2 16	17 47	0 19	19 23	1 38	9 34	11 29	5 9	4 48	0s 2	16 59	5 41
S 20	11 8	16 12	3 46	4 40	0 18	5 4	1 18	22 12	0 52	7 53	1 5	0 15	2 16	17 47	0 19	19 23	1 38	9 34	11 28	5 10	4 49	0 3	16 59	5 41
S 21	10 46	13 56	2 53	3 52	0 31</																			

SWISS EPHEMERIS for the year 1644

MARCH 1644 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	10 37 18	11♂ 2'58	1♂32	27♂48	2♂38	1♂35	24♂47	6♂59	21°R10	4♂ 4	3♂18	16♂54	17♂17	4♂26	14♂59
W 2	10 41 15	12° 3'00	14° 1	28° 6	3°52	2°21	24°59	7° 6	21♂ 9	4° 4	3°18	16°R55	17°14	4°33	15° 0
T 3	10 45 12	13° 2'59	26°52	28°15	5° 6	3° 6	25°12	7°13	21° 9	4° 4	3°18	16°54	17°11	4°39	15° 1
F 4	10 49 8	14° 2'57	10♂ 8	28°R15	6°20	3°52	25°24	7°20	21° 9	4° 4	3°19	16°54	17° 8	4°46	15° 2
S 5	10 53 5	15° 2'53	23°50	28° 6	7°35	4°38	25°37	7°28	21° 8	4°R 4	3°19	16°54	17° 4	4°52	15° 4
S 6	10 57 1	16° 2'48	7♂59	27°49	8°49	5°24	25°49	7°35	21° 8	4° 4	3°19	16°54	17° 1	4°59	15° 5
M 7	11 0 58	17° 2'41	22°32	27°24	10° 3	6°10	26° 2	7°42	21° 7	4° 4	3°20	16°D54	16°58	5° 6	15° 6
T 8	11 4 54	18° 2'32	7♂26	26°51	11°17	6°55	26°15	7°49	21° 6	4° 4	3°20	16°54	16°55	5°12	15° 7
W 9	11 8 51	19° 2'21	22°33	26°12	12°31	7°41	26°28	7°56	21° 6	4° 4	3°21	16°R54	16°52	5°19	15° 9
T 10	11 12 47	20° 2'07	7♂43	25°27	13°44	8°27	26°41	8° 4	21° 5	4° 4	3°21	16°54	16°49	5°26	15°10
F 11	11 16 44	21° 1'52	22°47	24°38	14°58	9°13	26°54	8°11	21° 4	4° 4	3°22	16°53	16°45	5°32	15°12
S 12	11 20 40	22° 1'35	7♂37	23°46	16°12	9°59	27° 7	8°18	21° 3	4° 4	3°22	16°53	16°42	5°39	15°14
S 13	11 24 37	23° 1'16	22° 6	22°51	17°26	10°45	27°20	8°26	21° 2	4° 3	3°23	16°52	16°39	5°46	15°16
M14	11 28 34	24° 0'54	6♂11	21°56	18°40	11°31	27°33	8°33	21° 1	4° 3	3°23	16°52	16°36	5°52	15°17
T 15	11 32 30	25° 0'30	19°51	21° 1	19°53	12°16	27°46	8°41	21° 0	4° 3	3°24	16°D51	16°33	5°59	15°19
W16	11 36 27	26° 0'03	3♂ 7	20° 7	21° 7	13° 2	27°59	8°48	20°59	4° 2	3°24	16°51	16°29	6° 6	15°21
T 17	11 40 23	26°59'35	16° 0	19°16	22°21	13°48	28°12	8°55	20°58	4° 2	3°25	16°52	16°26	6°12	15°23
F 18	11 44 20	27°59'04	28° 34	18°28	23°34	14°34	28°26	9° 3	20°57	4° 2	3°26	16°53	16°23	6°19	15°26
S 19	11 48 16	28°58'30	10♂54	17°44	24°48	15°20	28°39	9°10	20°56	4° 1	3°26	16°54	16°20	6°26	15°28
S 20	11 52 13	29°57'55	23° 1	17° 4	26° 1	16° 6	28°53	9°18	20°55	4° 1	3°27	16°55	16°17	6°32	15°30
M21	11 56 9	0♂57'17	5♂ 0	16°30	27°15	16°52	29° 6	9°25	20°53	4° 0	3°28	16°56	16°14	6°39	15°33
T 22	12 0 6	1°56'37	16°52	16° 1	28°28	17°38	29°20	9°33	20°52	4° 0	3°28	16°R56	16°10	6°46	15°35
W23	12 4 3	2°55'55	28°42	15°38	29°41	18°24	29°33	9°40	20°51	3°59	3°29	16°56	16° 7	6°52	15°38
T 24	12 7 59	3°55'10	10♂30	15°21	0♂55	19°10	29°47	9°48	20°49	3°59	3°30	16°55	16° 4	6°59	15°40
F 25	12 11 56	4°54'24	22°19	15°10	2° 8	19°56	0♂ 1	9°55	20°48	3°58	3°31	16°52	16° 1	7° 6	15°43
S 26	12 15 52	5°53'36	4♂12	15°D 4	3°21	20°42	0°14	10° 3	20°46	3°57	3°32	16°50	15°58	7°12	15°46
S 27	12 19 49	6°52'46	16°10	15° 4	4°34	21°28	0°28	10°11	20°45	3°57	3°32	16°46	15°54	7°19	15°48
M28	12 23 45	7°51'54	28°16	15° 9	5°47	22°14	0°42	10°18	20°43	3°56	3°33	16°43	15°51	7°26	15°51
T 29	12 27 42	8°51'00	10♂32	15°20	7° 0	23° 0	0°56	10°26	20°42	3°55	3°34	16°40	15°48	7°32	15°54
W30	12 31 38	9°50'04	23° 3	15°36	8°13	23°46	1°10	10°33	20°40	3°55	3°35	16°38	15°45	7°39	15°57
T 31	12 35 35	10°49'07	5♂50	15♂57	9♂26	24°32	1♂23	10°41	20♂38	3♂54	3♂36	16°D37	15♂42	7♂45	16♂ 0

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	7s26	15s30	5n 7	1n32	2n37	0n 6	1s 2	20s47	0s58	8n38	1s 3	0n43	2s15	17s47	0n19	19s23	1n39	9n38	11s26	5n11	5n 2	0s22	17n 3	5s37
W 2	7 3 17 16	5 18	1 50	2 50	0 37	1 0	20 38	0 59	8 43	1 3	0 46	2 15	17 46	0 19	19 23	1 39	9 38	11 25	5 11	5 3	0 24	17 4	5 37	
T 3	6 40 18 14	5 13	2 4	3 1	1 9	0 58	20 28	0 59	8 48	1 3	0 49	2 15	17 46	0 19	19 23	1 39	9 38	11 25	5 11	5 4	0 26	17 4	5 36	
F 4	6 17 18 14	4 52	2 13	3 11	1 40	0 56	20 18	1 0	8 52	1 2	0 51	2 15	17 46	0 19	19 23	1 39	9 39	11 25	5 11	5 6	0 28	17 5	5 36	
S 5	5 54 17 12	4 45	2 17	3 19	2 11	0 54	20 7	1 1	8 57	1 2	0 54	2 14	17 46	0 19	19 23	1 39	9 39	11 24	5 11	5 7	0 30	17 5	5 35	
S 6	5 31 15 5	3 20	2 17	3 26	2 42	0 52	19 57	1 1	9 2	1 2	0 57	2 14	17 46	0 19	19 22	1 39	9 39	11 24	5 11	5 8	0 31	17 6	5 35	
M 7	5 8 11 57	2 11	2 12	3 32	3 13	0 50	19 46	1 2	9 7	1 2	1 0	2 14	17 46	0 19	19 22	1 39	9 40	11 24	5 11	5 9	0 33	17 6	5 35	
T 8	4 44 7 59	0 52	2 2	3 36	3 45	0 47	19 35	1 3	9 11	1 2	1 3	2 14	17 46	0 19	19 22	1 39	9 40	11 24	5 11	5 11	0 35	17 7	5 34	
W 9	4 21 3 27	0s31	1 49	3 37	4 16	0 45	19 24	1 3	9 16	1 2	1 6	2 14	17 45	0 19	19 22	1 39	9 40	11 23	5 11	5 12	0 37	17 7	5 34	
T 10	3 57 1n20	1 53	1 31	3 37	4 46	0 43	19 13	1 4	9 21	1 1	1 9	2 14	17 45	0 19	19 22	1 39	9 41	11 23	5 11	5 13	0 39	17 8	5 34	
F 11	3 34 5 59	3 7	1 10	3 35	5 17	0 40	19 1	1 4	9 26	1 1	1 12	2 14	17 45	0 19	19 22	1 39	9 41	11 23	5 11	5 14	0 41	17 8	5 33	
S 12	3 10 10 11	4 6	0 45	3 31	5 48	0 38	18 49	1 5	9 31	1 1	1 15	2 14	17 45	0 19	19 22	1 40	9 41	11 23	5 11	5 16	0 43	17 9	5 33	
S 13	2 47 13 40	4 49	0 18	3 25	6 19	0 36	18 37	1 6	9 35	1 1	1 18	2 14	17 45	0 19	19 22	1 40	9 42	11 22	5 12	5 17	0 45	17 9	5 33	
M14	2 23 16 15	5 12	0s11	3 18	6 49	0 33	18 25	1 6	9 40	1 1	1 21	2 14	17 44	0 19	19 22	1 40	9 42	11 22	5 12	5 18	0 46	17 10	5 32	
T 15	1 59 17 49	5 17	0 41	3 8	7 19	0 31	18 13	1 7	9 45	1 1	1 24	2 14	17 44	0 19	19 22	1 40	9 42	11 22	5 12	5 19	0 48	17 10	5 32	
W16	1 36 18 22	5 5	1 12	2 58	7 49	0 28	18 1	1 7	9 50	1 1	1 27	2 14	17 44	0 19	19 22	1 40	9 43	11 21	5 12	5 20	0 50	17 11	5 32	
T 17	1 12 17 55	4 38	1 43	2 46	8 19	0 25	17 48	1 8	9 55	1 0	1 30	2 14	17 43	0 19	19 22	1 40	9 43	11 21	5 12	5 22	0 52	17 12	5 31	
F 18	0 48 16 36	3 58	2 14	2 32	8 49	0 23	17 35	1 9	10 0	1 0	1 33	2 14	17 43	0 19	19 21	1 40	9 44	11 21	5 11	5 23	0 54	17 12	5 31	
S 19	0 25 14 32	3 7	2 44	2 18	9 19	0 20	17 22	1 9	10 5	1 0	1 36	2 14	17 43	0 19	19 21	1 40	9 44	11 21	5 11	5 24	0 56	17 13	5 31	
S 20	0 1 11 50	2 9	3 13	2 4	9 48	0 17	17 9	1 10	10 10	1 0	1 39	2 14	17 42	0 19	19 21	1 40	9 44	11 20	5 11	5 25	0 58	17 13	5 30	
M21	0n23 8 41	1 6	3 40	1 48	10 17	0 15	16 56	1 10	10 15	1 0	1 41	2 14	17 42	0 19	19 21	1 40	9 45	11 20	5 10	5 27	1 0	17 14	5 30	
T 22	0 46 5 11	0 0	4 6	1 33	10 46	0 12	16 42	1 11	10 19	1 0	1 44	2 14	17 42	0 19	19 21	1 40	9 45	11 20	5 10	5 28	1 1	17 14	5 30	
W23	1 10 1 30	1n 5	4 29	1 17	11 14	0 9	16 28	1 11	10 24	1 0	1 47	2 14	17 41	0 19	19 21	1 40	9 45	11 20	5 10	5 29	1 3	17 15	5 29	
T 24	1 34 2s13	2 7	4 50	1 2	11 43	0 6	16 14	1 12	10 29	1 0	1 50	2 14	17 41	0 19	19 21	1 40	9 46	11 19	5 11	5 30	1 5	17 16	5 29	
F 25	1 57 5 52	3 4	5 9	0 46	12 11	0 3	16 0	1 12	10 34	0 59	1 53	2 14	17 41	0 19	19 20	1 40	9 46	11 19	5 12	5 32	1 7	17 16	5 29	
S 26	2 21 9 18	3 52	5 25	0 31	12 39	0 1	15 46	1 13	10 39	0 59	1 56	2 14	17 40	0 19	19 20	1 40	9 47	11 19	5 13	5 33	1 9	17 17	5 28	
S 27	2 44 12 22	4 32	5 38	0 17	13 6	0n 2	15 32	1 14	10 44	0 59	1 59	2 14	17 40	0 19	19 20	1 40	9 47	11 19	5 14	5 34	1 11	17 17	5 28	
M28	3 8 14 57	4 59	5 50	0 2	13 33	0 5	15 18	1 14	10 49	0 59	2 2	2 14	17 39	0 19	19 20	1 40	9 47	11 19	5 15	5 35	1 13	17 18	5 28	
T 29	3 31 16 54	5 13	5 58	0s12	14 0	0 8	15 3	1 15	10 54	0 59	2 5	2 14	17 39	0 19	19 20	1 40	9 48	11 18	5 16	5 37	1 14	17 19	5 27	
W30	3 54 18 5	5 13	6 4	0 25	14 27	0 11	14 48	1																

SWISS EPHEMERIS for the year 1644

APRIL 1644 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
F 1	12 39 32	11°48'08"	18°59'	16°22'	10°39'	25°18'	1°37'	10°48'	20°37'	3°53'	3°37'	16°37'	15°39'	7°52'	16°11'	3								
S 2	12 43 28	12°47'07"	2°31'	16°52'	11°52'	26° 4'	1°51'	10°56'	20°35'	3°52'	3°38'	16°38'	15°35'	7°59'	16° 7'									
S 3	12 47 25	13°46'04"	16°28'	17°27'	13° 4'	26°50'	2° 5'	11° 3'	20°33'	3°51'	3°38'	16°40'	15°32'	8° 5'	16°10'									
M 4	12 51 21	14°45'00"	0°36'	18° 5'	14°17'	27°36'	2°19'	11°11'	20°31'	3°50'	3°39'	16°41'	15°29'	8°12'	16°13'									
T 5	12 55 18	15°43'53"	15°36'	18°47'	15°30'	28°22'	2°33'	11°18'	20°29'	3°49'	3°40'	16°R42	15°26'	8°19'	16°17'									
W 6	12 59 14	16°42'45"	0°38'	19°33'	16°42'	29° 9'	2°47'	11°26'	20°27'	3°48'	3°41'	16°41'	15°23'	8°25'	16°20'									
T 7	13 3 11	17°41'35"	15°51'	20°22'	17°55'	29°55'	3° 1'	11°34'	20°25'	3°47'	3°42'	16°39'	15°20'	8°32'	16°24'									
F 8	13 7 7	18°40'23"	1°3'	21°14'	19° 7'	0°41'	3°16'	11°41'	20°23'	3°46'	3°43'	16°35'	15°16'	8°39'	16°27'									
S 9	13 11 4	19°39'09"	16° 5'	22° 9'	20°20'	1°27'	3°30'	11°49'	20°21'	3°45'	3°44'	16°31'	15°13'	8°45'	16°31'									
S 10	13 15 0	20°37'53"	0°11'48"	23° 8'	21°32'	2°13'	3°44'	11°56'	20°19'	3°44'	3°45'	16°26'	15°10'	8°52'	16°35'									
M 11	13 18 57	21°36'35"	15° 6'	24° 9'	22°44'	2°59'	3°58'	12° 4'	20°17'	3°43'	3°46'	16°21'	15° 7'	8°59'	16°38'									
T 12	13 22 54	22°35'14"	28°56'	25°13'	23°57'	3°45'	4°12'	12°11'	20°15'	3°42'	3°48'	16°18'	15° 4'	9° 5'	16°42'									
W 13	13 26 50	23°33'52"	12°51'18"	26°19'	25° 9'	4°31'	4°27'	12°19'	20°13'	3°41'	3°49'	16°15'	15° 0'	9°12'	16°46'									
T 14	13 30 47	24°32'27"	25°13'	27°28'	26°21'	5°17'	4°41'	12°26'	20°11'	3°40'	3°50'	16°D15	14°57'	9°19'	16°50'									
F 15	13 34 43	25°31'00"	7°45'	28°40'	27°33'	6° 3'	4°55'	12°33'	20° 9'	3°39'	3°51'	16°16'	14°54'	9°25'	16°54'									
S 16	13 38 40	26°29'30"	20° 0'	29°54'	28°45'	6°49'	5° 9'	12°41'	20° 6'	3°38'	3°52'	16°17'	14°51'	9°32'	16°58'									
S 17	13 42 36	27°27'59"	2°11'10"	1°10'	29°57'	7°35'	5°23'	12°48'	20° 4'	3°36'	3°53'	16°19'	14°48'	9°39'	17° 2'									
M 18	13 46 33	28°26'25"	13°54'	2°28'	1°11' 9"	8°21'	5°38'	12°56'	20° 2'	3°35'	3°54'	16°R19	14°45'	9°45'	17° 6'									
T 19	13 50 29	29°24'49"	25°42'	3°48'	2°21'	9° 6'	5°52'	13° 3'	20° 0'	3°34'	3°55'	16°19'	14°41'	9°52'	17°11'									
W 20	13 54 26	0°23'11"	7°42'29"	5°10'	3°32'	9°52'	6° 6'	13°10'	19°57'	3°33'	3°56'	16°17'	14°38'	9°59'	17°15'									
T 21	13 58 23	1°21'32"	19°18'	6°35'	4°44'	10°38'	6°21'	13°18'	19°55'	3°31'	3°58'	16°12'	14°35'	10° 5'	17°19'									
F 22	14 2 19	2°19'50"	1°11'12"	8° 1'	5°55'	11°24'	6°35'	13°25'	19°53'	3°30'	3°59'	16° 6'	14°32'	10°12'	17°23'									
S 23	14 6 16	3°18'07"	13°12'	9°29'	7° 7'	12°10'	6°49'	13°32'	19°50'	3°29'	4° 0'	15°58'	14°29'	10°19'	17°28'									
S 24	14 10 12	4°16'21"	25°19'	11° 0'	8°18'	12°56'	7° 4'	13°40'	19°48'	3°27'	4° 1'	15°49'	14°26'	10°25'	17°32'									
M 25	14 14 9	5°14'35"	7°35'	12°32'	9°30'	13°42'	7°18'	13°47'	19°46'	3°26'	4° 2'	15°40'	14°22'	10°32'	17°37'									
T 26	14 18 5	6°12'46"	20° 2'	14° 6'	10°41'	14°28'	7°32'	13°54'	19°43'	3°25'	4° 4'	15°32'	14°19'	10°39'	17°41'									
W 27	14 22 2	7°10'56"	2°34'11"	15°42'	11°52'	15°13'	7°47'	14° 1'	19°41'	3°23'	4° 5'	15°25'	14°16'	10°45'	17°46'									
T 28	14 25 58	8° 9'05"	15°33'	17°20'	13° 3'	15°59'	8° 1'	14° 8'	19°38'	3°22'	4° 6'	15°20'	14°13'	10°52'	17°51'									
F 29	14 29 55	9° 7'12"	28°42'	19° 0'	14°14'	16°45'	8°15'	14°15'	19°36'	3°20'	4° 7'	15°18'	14°10'	10°59'	17°55'									
S 30	14 33 52	10° 5'18"	12°58' 9"	20°41'	15°11'25"	17°31'	8°29'	14°49'22"	19°11'33"	3°19'	4°11' 9"	15°D17	14°11' 6"	11°5' 5"	18°11' 0"									

Day	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	4n40	17s44	4n26	6s 9	0s50	15n19	0n17	14s18	1s16	11n 9	0s59	2n14	2s14	17s38	0n19	19s19	1n40	9n49	11s18	5n17	5n40	1s20	17n20	5s26
S 2	5 4 16	4 3 40	6 8 1	2 15 44	0 20 14	3 1 17	11 14 0	59 2 17	2 14 17	37 0 19	19 19 1	41 9 49	11 17 5	17 5 17	5 41 1	22 17 21	5 26							
S 3	5 27 13	24 2 39	6 5 1	13 16 9	0 23 13	48 1 17	11 18 0	58 2 20	2 14 17	37 0 19	19 19 1	41 9 50	11 17 5	16 5 43	1 24 17	22 5 26								
M 4	5 49 9	51 1 26	6 0 1	23 16 34	0 26 13	32 1 18	11 23 0	58 2 23	2 14 17	36 0 19	19 19 1	41 9 50	11 17 5	16 5 44	1 26 17	22 5 25								
T 5	6 12 5	36 0 6	5 52 1	33 16 58	0 29 13	17 1 18	11 28 0	58 2 26	2 14 17	36 0 19	19 18 1	41 9 50	11 17 5	16 5 45	1 28 17	23 5 25								
W 6	6 35 0	54 1s16	5 43 1	42 17 22	0 32 13	1 1 19	11 33 0	58 2 29	2 14 17	35 0 19	19 18 1	41 9 51	11 17 5	16 5 46	1 29 17	24 5 25								
T 7	6 57 3	53 2 33	5 31 1	51 17 45	0 35 12	45 1 19	11 38 0	58 2 32	2 14 17	35 0 19	19 18 1	41 9 51	11 16 5	17 5 48	1 31 17	24 5 25								
F 8	7 20 8	26 3 39	5 18 1	59 18 8	0 38 12	30 1 20	11 43 0	58 2 35	2 14 17	34 0 19	19 18 1	41 9 51	11 16 5	18 5 49	1 33 17	25 5 24								
S 9	7 42 12	23 4 30	5 3 2	6 18 31	0 41 12	14 1 20	11 48 0	58 2 37	2 14 17	34 0 19	19 17 1	41 9 52	11 16 5	20 5 50	1 35 17	25 5 24								
S 10	8 4 15	27 5 1	4 46 2	12 18 53	0 44 11	57 1 20	11 53 0	58 2 40	2 14 17	33 0 19	19 17 1	41 9 52	11 16 5	22 5 51	1 37 17	26 5 24								
M 11	8 26 17	29 5 12	4 27 2	18 19 14	0 46 11	41 1 21	11 58 0	58 2 43	2 14 17	32 0 19	19 17 1	41 9 53	11 15 5	24 5 53	1 39 17	27 5 24								
T 12	8 48 18	24 5 4	4 6 2	24 19 35	0 49 11	25 1 21	12 2 0	58 2 46	2 14 17	32 0 19	19 17 1	41 9 53	11 15 5	25 5 54	1 41 17	27 5 23								
W 13	9 10 18	15 4 41	3 44 2	29 19 56	0 52 11	9 1 22	12 7 0	57 2 49	2 14 17	31 0 19	19 17 1	41 9 53	11 15 5	26 5 55	1 43 17	28 5 23								
T 14	9 32 17	9 4 3	3 21 2	33 20 16	0 55 10	52 1 22	12 12 0	57 2 52	2 14 17	31 0 19	19 16 1	41 9 54	11 15 5	26 5 56	1 44 17	29 5 23								
F 15	9 53 15	14 3 15	2 55 2	36 20 36	0 58 10	35 1 23	12 17 0	57 2 55	2 14 17	30 0 19	19 16 1	41 9 54	11 15 5	26 5 57	1 46 17	29 5 23								
S 16	10 14 12	39 2 18	2 29 2	39 20 55	1 1 10	19 1 23	12 22 0	57 2 57	2 14 17	30 0 19	19 16 1	41 9 54	11 15 5	25 5 59	1 48 17	30 5 22								
S 17	10 35 9	35 1 17	2 1 2	42 21 13	1 4 10	2 1 23	12 27 0	57 3 0	2 14 17	29 0 19	19 16 1	41 9 55	11 14 5	25 6 0	1 50 17	30 5 22								
M 18	10 56 6	9 0 13	1 31 2	44 21 31	1 7 9	45 1 24	12 31 0	57 3 3	2 14 17	28 0 19	19 15 1	41 9 55	11 14 5	24 6 1	1 52 17	31 5 22								
T 19	11 17 2	29 0n51	1 1																					

SWISS EPHEMERIS for the year 1644

MAY 1644 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	14 37 48	11♈ 3'22	25♌56	22♋25	16♉36	18♈16	8♄44	14♋30	19°R31	3°R17	4♉10	15♎18	14♎ 3	11♌12	18♉ 5
M 2	14 41 45	12° 1'25	10♈ 4	24°11	17°47	19° 2	8°58	14°37	19♎28	3♌16	4°11	15°R19	14° 0	11°19	18° 9
T 3	14 45 41	12°59'27	24°32	25°58	18°57	19°48	9°12	14°44	19°26	3°14	4°12	15°19	13°57	11°25	18°14
W 4	14 49 38	13°57'27	9♋19	27°47	20° 8	20°34	9°27	14°50	19°23	3°13	4°14	15°16	13°54	11°32	18°19
T 5	14 53 34	14°55'25	24°17	29°38	21°19	21°19	9°41	14°57	19°21	3°11	4°15	15°12	13°51	11°39	18°24
F 6	14 57 31	15°53'23	9♌20	1♈32	22°29	22° 5	9°55	15° 4	19°18	3°10	4°16	15° 5	13°47	11°45	18°29
S 7	15 1 27	16°51'19	24°19	3°27	23°39	22°50	10° 9	15°11	19°16	3° 8	4°18	14°56	13°44	11°52	18°34
S 8	15 5 24	17°49'13	9♉ 2	5°23	24°50	23°36	10°24	15°18	19°13	3° 7	4°19	14°47	13°41	11°58	18°39
M 9	15 9 21	18°47'06	23°24	7°22	26° 0	24°21	10°38	15°25	19°11	3° 5	4°20	14°37	13°38	12° 5	18°44
T 10	15 13 17	19°44'57	7♌19	9°23	27°10	25° 7	10°52	15°31	19° 8	3° 4	4°22	14°29	13°35	12°12	18°49
W 11	15 17 14	20°42'46	20°46	11°25	28°20	25°52	11° 6	15°38	19° 6	3° 2	4°23	14°24	13°31	12°18	18°54
T 12	15 21 10	21°40'34	3♌25	13°29	29°30	26°38	11°21	15°45	19° 3	3° 1	4°24	14°20	13°28	12°25	18°59
F 13	15 25 7	22°38'20	16°20	15°34	0♌40	27°23	11°35	15°51	19° 1	2°59	4°26	14°18	13°25	12°32	19° 5
S 14	15 29 3	23°36'04	28°35	17°41	1°50	28° 8	11°49	15°58	18°58	2°57	4°27	14°D18	13°22	12°38	19°10
S 15	15 33 0	24°33'47	10♎36	19°49	2°59	28°54	12° 3	16° 4	18°56	2°56	4°28	14°R19	13°19	12°45	19°15
M 16	15 36 56	25°31'28	22°28	21°59	4° 9	29°39	12°17	16°11	18°53	2°54	4°30	14°19	13°16	12°52	19°20
T 17	15 40 53	26°29'08	4♌15	24° 9	5°18	0♋24	12°31	16°17	18°51	2°53	4°31	14°17	13°12	12°58	19°26
W 18	15 44 50	27°26'46	16° 3	26°20	6°27	1° 9	12°45	16°24	18°48	2°51	4°32	14°13	13° 9	13° 5	19°31
T 19	15 48 46	28°24'22	27°56	28°32	7°37	1°55	12°59	16°30	18°46	2°49	4°34	14° 6	13° 6	13°12	19°36
F 20	15 52 43	29°21'57	9♍56	0♉44	8°46	2°40	13°13	16°36	18°43	2°48	4°35	13°57	13° 3	13°18	19°42
S 21	15 56 39	0♉19'31	22° 6	2°55	9°55	3°25	13°27	16°42	18°41	2°46	4°37	13°45	13° 0	13°25	19°47
S 22	16 0 36	1°17'04	4♌26	5° 7	11° 3	4°10	13°41	16°48	18°38	2°44	4°38	13°33	12°57	13°32	19°52
M 23	16 4 32	2°14'36	16°57	7°18	12°12	4°55	13°55	16°54	18°36	2°43	4°39	13°20	12°53	13°38	19°58
T 24	16 8 29	3°12'07	29°41	9°28	13°21	5°40	14° 9	17° 0	18°34	2°41	4°41	13° 8	12°50	13°45	20° 3
W 25	16 12 25	4° 9'36	12♌35	11°36	14°29	6°25	14°23	17° 6	18°31	2°40	4°42	12°58	12°47	13°52	20° 9
T 26	16 16 22	5° 7'05	25°41	13°44	15°37	7° 9	14°37	17°12	18°29	2°38	4°43	12°51	12°44	13°58	20°14
F 27	16 20 19	6° 4'33	9♌ 0	15°50	16°46	7°54	14°50	17°18	18°26	2°36	4°45	12°46	12°41	14° 5	20°20
S 28	16 24 15	7° 2'00	22°31	17°54	17°54	8°39	15° 4	17°24	18°24	2°35	4°46	12°44	12°37	14°12	20°25
S 29	16 28 12	7°59'27	6♈16	19°56	19° 2	9°24	15°18	17°30	18°22	2°33	4°47	12°44	12°34	14°18	20°31
M 30	16 32 8	8°56'52	20°16	21°57	20° 9	10° 8	15°32	17°35	18°20	2°31	4°49	12°44	12°31	14°25	20°36
T 31	16 36 5	9♉54'17	4♋30	23♉55	21♌17	10♋53	15♌45	17♋41	18♌17	2♌30	4♉50	12♎43	12♎28	14♌32	20♉42

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	15n10	11s18	1n42	6n38	2s17	24n28	1n40	6s 0	1s28	13n33	0s56	3n38	2s16	17s20	0n19	19s12	1n41	10n 0	11s12	5n48	6n17	2s16	17n39	5s19
M 2	15 28	7 22	0 28	7 22	2 11	24 37	1 43	5 42	1 29	13 37	0 56	3 41	2 16	17 19	0 19	19 11	1 41	10 0	11 12	5 48	6 18	2 18	17 39	5 19
T 3	15 46	2 56	0s49	8 7	2 4	24 46	1 45	5 25	1 29	13 42	0 56	3 44	2 16	17 19	0 19	19 11	1 41	10 1	11 12	5 48	6 20	2 20	17 40	5 19
W 4	16 3	1n47	2 5	8 53	1 58	24 54	1 47	5 7	1 29	13 47	0 56	3 46	2 16	17 18	0 19	19 11	1 41	10 1	11 12	5 49	6 21	2 22	17 41	5 19
T 5	16 21	6 27	3 13	9 39	1 50	25 1	1 49	4 49	1 29	13 51	0 56	3 49	2 16	17 17	0 19	19 10	1 41	10 1	11 12	5 51	6 22	2 24	17 41	5 19
F 6	16 37	10 43	4 8	10 25	1 43	25 7	1 51	4 31	1 30	13 56	0 56	3 51	2 16	17 17	0 19	19 10	1 41	10 2	11 12	5 53	6 23	2 26	17 42	5 19
S 7	16 54	14 17	4 45	11 12	1 34	25 13	1 53	4 13	1 30	14 0	0 56	3 54	2 16	17 16	0 19	19 10	1 41	10 2	11 11	5 57	6 24	2 28	17 42	5 18
S 8	17 10	16 52	5 3	12 0	1 26	25 18	1 55	3 56	1 30	14 5	0 56	3 56	2 16	17 15	0 19	19 9	1 42	10 2	11 11	6 0	6 26	2 30	17 43	5 18
M 9	17 17	18 19	5 1	12 47	1 17	25 22	1 57	3 38	1 30	14 9	0 56	3 59	2 16	17 15	0 19	19 9	1 42	10 3	11 11	6 4	6 27	2 31	17 43	5 18
T 10	17 42	18 37	4 41	13 35	1 8	25 26	1 59	3 20	1 31	14 14	0 56	4 1	2 17	17 14	0 19	19 9	1 42	10 3	11 11	6 7	6 28	2 33	17 44	5 18
W 11	17 58	17 50	4 5	14 22	0 58	25 29	2 1	3 2	1 31	14 18	0 56	4 4	2 17	17 13	0 19	19 9	1 42	10 3	11 11	6 9	6 29	2 35	17 44	5 18
T 12	18 13	16 8	3 19	15 9	0 48	25 31	2 2	2 44	1 31	14 23	0 56	4 6	2 17	17 13	0 19	19 8	1 42	10 4	11 11	6 11	6 31	2 37	17 45	5 18
F 13	18 28	13 41	2 23	15 56	0 38	25 33	2 4	2 26	1 31	14 27	0 56	4 9	2 17	17 12	0 19	19 8	1 42	10 4	11 11	6 11	6 32	2 39	17 45	5 18
S 14	18 42	10 42	1 23	16 42	0 27	25 33	2 5	2 8	1 31	14 31	0 56	4 11	2 17	17 11	0 19	19 8	1 42	10 4	11 11	6 11	6 33	2 41	17 46	5 18
S 15	18 57	7 18	0 20	17 27	0 17	25 34	2 7	1 50	1 32	14 36	0 56	4 13	2 17	17 11	0 19	19 7	1 42	10 4	11 11	6 11	6 34	2 43	17 46	5 17
M 16	19 11	3 40	0n43	18 12	0 6	25 33	2 8	1 32	1 32	14 40	0 56	4 16	2 17	17 10	0 19	19 7	1 42	10 5	11 11	6 11	6 35	2 45	17 47	5 17
T 17	19 24	0s 6	1 44	18 55	0n 4	25 32	2 9	1 15	1 32	14 44	0 56	4 18	2 18	17 9	0 19	19 7	1 42	10 5	11 11	6 12	6 37	2 46	17 47	5 17
W 18	19 38	3 52	2 40	19 37	0 15	25 30	2 10	0 57	1 32	14 49	0 56	4 20	2 18	17 9	0 19	19 6	1 42	10 5	11 11	6 13	6 38	2 48	17 48	5 17
T 19	19 50	7 30	3 30	20 17	0 25	25 27	2 12	0 39	1 32	14 53	0 56	4 22	2 18	17 8	0 19	19 6	1 42	10 6	11 10	6 16	6 39	2 50	17 48	5 17
F 20	20 3	10 52	4 10	20 55	0 35	25 24	2 13	0 21	1 32	14 57	0 56	4 25	2 18	17 7	0 19	19 6	1 42	10 6	11 10	6 20	6 40	2 52	17 49	5 17
S 21	20 15	13 49	4 40	21 31	0 45	25 20	2 14	0 3	1 32	15 1	0 56	4 27	2 18	17 7	0 19	19 5	1 42	10 6	11 10	6 24	6 42	2 54	17 49	5 17
S 22	20 27	16 12	4 57	22 5	0 55	25 15	2 14	0n15	1 32	15 5	0 56	4 29	2 18	17 6	0 19	19 5	1 42	10 7	11 10	6 29	6 43	2 56	17 50	5 17
M 23	20 39	17 52	5 0	22 37	1 4	25 10	2 15	0 32	1 33	15 10	0 56	4 31	2 19	17 5	0 19	19 5	1 42	10 7	11 10	6 34	6 44	2 58	17 50	5 17
T 24	20 50	18 40	4 49	23 6	1 13	25 4	2 16	0 50	1 33	15 14	0 56	4 33	2 19	17 5	0 19	19 4	1 42	10 7	11 10	6 38	6 45	3 0	17 50	5 17
W 25	21 1	18 32	4 22	23 33	1 21	24 57	2 16	1 8	1 33	15 18	0 56	4 36	2 19	17 4	0 19	19 4	1 42	10 7	11 10	6 42	6 46	3 2	17 51	5 17
T 26	21 12	17 25	3 42	23 57	1 28	24 50	2 17	1 26	1 33	15 22	0 56	4 38	2 19	17 3	0 19	19 4	1 42	10 8	11 10	6 45	6 48	3 3	17 51	5 17
F 27	21 22	15 20	2 48	24 18	1 35	24 42	2 17	1 43	1 33	15 26	0 56	4 40	2 19	17 3	0 19	19 4	1 42	10 8	11 10	6 47	6 49	3 5	17 52	5 17
S 28	21 31	12 23	1 45	24 37	1 42	24 33	2 17	2 1	1 33	15 30	0 56	4 42	2 19	17 2	0 19	19 3	1 42	10 8	11 10	6 47	6 50	3 7	17 52	5 17
S 29	21 41	8 42	0 34	24 53	1 47																			

SWISS EPHEMERIS for the year 1644

JUNE 1644 GC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
W 1	16 40 1	10II51'42	18°V58	25II50	22°25	11°V37	15°S59	17°V47	18°R15	2°R28	4II52	12°R40	12°M25	14°S38	20II47
T 2	16 43 58	11°49'06	3°S35	27°44	23°32	12°22	16°12	17°52	18°M13	2°S27	4°S3	12°M34	12°22	14°45	20°53
F 3	16 47 54	12°46'29	18°17	29°35	24°39	13° 6	16°26	17°58	18°10	2°25	4°54	12°26	12°18	14°52	20°59
S 4	16 51 51	13°43'52	2II56	1°S23	25°46	13°51	16°39	18° 3	18° 8	2°23	4°56	12°16	12°15	14°58	21° 4
S 5	16 55 48	14°41'14	17°25	3° 9	26°53	14°35	16°53	18° 8	18° 6	2°22	4°57	12° 4	12°12	15° 5	21°10
M 6	16 59 44	15°38'35	1°S37	4°53	28° 0	15°19	17° 6	18°13	18° 4	2°20	4°58	11°53	12° 9	15°12	21°15
T 7	17 3 41	16°35'56	15°26	6°34	29° 7	16° 4	17°20	18°19	18° 2	2°19	5° 0	11°43	12° 6	15°18	21°21
W 8	17 7 37	17°33'16	28°51	8°12	0°I13	16°48	17°33	18°24	18° 0	2°17	5° 1	11°35	12° 3	15°25	21°27
T 9	17 11 34	18°30'34	11°I50	9°48	1°19	17°32	17°46	18°29	17°58	2°16	5° 2	11°30	11°59	15°32	21°32
F 10	17 15 30	19°27'52	24°26	11°21	2°25	18°16	17°59	18°34	17°56	2°14	5° 4	11°27	11°56	15°38	21°38
S 11	17 19 27	20°25'09	6°M43	12°52	3°31	19° 0	18°12	18°38	17°54	2°13	5° 5	11°27	11°53	15°45	21°44
S 12	17 23 23	21°22'26	18°45	14°20	4°37	19°44	18°25	18°43	17°52	2°11	5° 6	11°27	11°50	15°52	21°49
M13	17 27 20	22°19'41	0°S38	15°45	5°43	20°27	18°38	18°48	17°50	2°10	5° 8	11°26	11°47	15°58	21°55
T 14	17 31 17	23°16'56	12°27	17° 8	6°48	21°11	18°51	18°53	17°48	2° 8	5° 9	11°25	11°43	16° 5	22° 1
W15	17 35 13	24°14'09	24°18	18°27	7°53	21°55	19° 4	18°57	17°46	2° 7	5°10	11°21	11°40	16°12	22° 6
T 16	17 39 10	25°11'23	6°M14	19°45	8°58	22°38	19°17	19° 2	17°44	2° 5	5°12	11°15	11°37	16°18	22°12
F 17	17 43 6	26° 8'35	18°20	20°59	10° 3	23°22	19°30	19° 6	17°42	2° 4	5°13	11° 7	11°34	16°25	22°18
S 18	17 47 3	27° 5'48	0°S39	22°10	11° 7	24° 5	19°43	19°10	17°41	2° 2	5°14	10°57	11°31	16°32	22°23
S 19	17 50 59	28° 2'59	13°13	23°18	12°11	24°49	19°55	19°15	17°39	2° 1	5°16	10°45	11°28	16°38	22°29
M20	17 54 56	29° 0'11	26° 1	24°24	13°15	25°32	20° 8	19°19	17°37	1°59	5°17	10°33	11°24	16°45	22°35
T 21	17 58 52	29°57'22	9°S 3	25°26	14°19	26°15	20°20	19°23	17°36	1°58	5°18	10°22	11°21	16°52	22°40
W22	18 2 49	0°S54'33	22°19	26°25	15°23	26°59	20°33	19°27	17°34	1°57	5°19	10°13	11°18	16°59	22°46
T 23	18 6 46	1°51'44	5°S46	27°21	16°26	27°42	20°45	19°31	17°32	1°55	5°21	10° 6	11°15	17° 5	22°51
F 24	18 10 42	2°48'55	19°24	28°13	17°29	28°25	20°58	19°35	17°31	1°54	5°22	10° 2	11°12	17°12	22°57
S 25	18 14 39	3°46'05	3°M10	29° 2	18°32	29° 8	21°10	19°38	17°29	1°53	5°23	10° 0	11° 9	17°19	23° 3
S 26	18 18 35	4°43'16	17° 4	29°48	19°34	29°50	21°22	19°42	17°28	1°51	5°24	10°D 0	11° 5	17°25	23° 8
M27	18 22 32	5°40'27	1°V 6	0°I29	20°37	0°S33	21°34	19°46	17°27	1°50	5°26	10°R 1	11° 2	17°32	23°14
T 28	18 26 28	6°37'39	15°15	1° 7	21°39	1°16	21°46	19°49	17°25	1°49	5°27	10° 1	10°59	17°39	23°19
W29	18 30 25	7°34'51	29°29	1°41	22°40	1°58	21°58	19°52	17°24	1°47	5°28	9°59	10°56	17°45	23°25
T 30	18 34 21	8°32'03	13°S46	2°I11	23°I42	2°S41	22°S10	19°V56	17°M23	1°S46	5°I29	9°M55	10°M53	17°S52	23°I31

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	22n 7	4n41	2s59	25n24	1n59	23n52	2n17	3n11	1s33	15n46	0s56	4n50	2s20	17s 0	0n19	19s 2	1n41	10n 9	11s10	6n49	6n55	3s15	17n54	5s17
T 2	22 15	9 3	3 54	25 30	2 22	23 41	2 17	3 28	1 33	15 50	0 56	4 52	2 20	16 59	0 19	19 2	1 41	10 9	11 10	6 51	6 56	3 17	17 54	5 17
F 3	22 22	12 54	4 35	25 33	2 4	23 28	2 17	3 45	1 33	15 54	0 56	4 53	2 21	16 58	0 19	19 1	1 41	10 10	11 10	6 54	6 57	3 18	17 54	5 17
S 4	22 29	15 56	4 57	25 33	2 5	23 15	2 16	4 3	1 33	15 57	0 56	4 55	2 21	16 58	0 19	19 1	1 41	10 10	11 10	6 58	6 59	3 20	17 55	5 17
S 5	22 36	17 55	4 59	25 32	2 5	23 2	2 15	4 20	1 33	16 1	0 56	4 57	2 21	16 57	0 19	19 1	1 41	10 10	11 10	7 3	7 0	3 22	17 55	5 17
M 6	22 42	18 45	4 43	25 28	2 5	22 48	2 15	4 37	1 33	16 5	0 56	4 59	2 21	16 57	0 19	19 1	1 41	10 10	11 10	7 7	7 1	3 24	17 55	5 17
T 7	22 48	18 26	4 11	25 23	2 4	22 33	2 14	4 54	1 33	16 9	0 56	5 1	2 21	16 56	0 19	19 0	1 41	10 11	11 10	7 11	7 2	3 26	17 56	5 17
W 8	22 54	17 5	3 25	25 15	2 2	22 18	2 13	5 11	1 33	16 13	0 56	5 2	2 22	16 56	0 19	19 0	1 41	10 11	11 10	7 14	7 3	3 28	17 56	5 17
T 9	22 59	14 52	2 30	25 6	1 59	22 3	2 12	5 28	1 33	16 16	0 56	5 4	2 22	16 55	0 19	19 0	1 41	10 11	11 10	7 16	7 5	3 30	17 56	5 17
F 10	23 4	12 0	1 29	24 55	1 56	21 47	2 11	5 45	1 32	16 20	0 56	5 6	2 22	16 54	0 19	18 59	1 41	10 11	11 10	7 17	7 6	3 32	17 57	5 17
S 11	23 8	8 41	0 25	24 43	1 52	21 30	2 9	6 2	1 32	16 24	0 56	5 7	2 22	16 54	0 19	18 59	1 41	10 11	11 10	7 17	7 7	3 34	17 57	5 17
S 12	23 12	5 3	0n39	24 29	1 47	21 13	2 8	6 18	1 32	16 27	0 56	5 9	2 22	16 53	0 19	18 59	1 41	10 12	11 10	7 17	7 8	3 35	17 57	5 17
M13	23 16	1 17	1 40	24 14	1 41	20 55	2 6	6 35	1 32	16 31	0 56	5 11	2 23	16 53	0 19	18 59	1 41	10 12	11 10	7 17	7 9	3 37	17 57	5 17
T 14	23 19	2s31	2 37	23 58	1 35	20 37	2 5	6 51	1 32	16 34	0 56	5 12	2 23	16 52	0 19	18 58	1 41	10 12	11 10	7 18	7 11	3 39	17 58	5 17
W15	23 21	6 14	3 27	23 40	1 29	20 18	2 3	7 8	1 32	16 38	0 56	5 14	2 23	16 52	0 19	18 58	1 41	10 12	11 10	7 19	7 12	3 41	17 58	5 18
T 16	23 24	9 43	4 8	23 22	1 21	19 59	2 1	7 24	1 32	16 41	0 56	5 15	2 23	16 51	0 19	18 58	1 41	10 12	11 10	7 21	7 13	3 43	17 58	5 18
F 17	23 26	12 51	4 39	23 3	1 13	19 40	1 59	7 41	1 32	16 45	0 56	5 17	2 24	16 51	0 19	18 58	1 41	10 13	11 10	7 25	7 14	3 45	17 58	5 18
S 18	23 27	15 29	4 57	22 43	1 5	19 20	1 57	7 57	1 31	16 48	0 56	5 18	2 24	16 50	0 18	18 57	1 41	10 13	11 10	7 29	7 16	3 47	17 58	5 18
S 19	23 28	17 26	5 1	22 23	0 56	19 0	1 54	8 13	1 31	16 51	0 56	5 19	2 24	16 50	0 18	18 57	1 41	10 13	11 10	7 33	7 17	3 49	17 59	5 18
M20	23 29	18 35	4 51	22 2	0 46	18 39	1 52	8 29	1 31	16 55	0 56	5 21	2 24	16 49	0 18	18 57	1 41	10 13	11 10	7 38	7 18	3 50	17 59	5 18
T 21	23 29	18 46	4 25	21 40	0 36	18 18	1 49	8 45	1 31	16 58	0 56	5 22	2 25	16 49	0 18	18 57	1 41	10 13	11 10	7 42	7 19	3 52	17 59	5 18
W22	23 29	17 56	3 45	21 19	0 25	17 57	1 47	9 0	1 31	17 1	0 56	5 23	2 25	16 49	0 18	18 56	1 41	10 13	11 11	7 45	7 20	3 54	17 59	5 18
T 23	23 28	16 6	2 51	20 57	0 13	17 35	1 44	9 16	1 30	17 5	0 56	5 25	2 25	16 48	0 18	18 56	1 41	10 13	11 11	7 48	7 22	3 56	17 59	5 19
F 24	23 27	13 20	1 47	20 35	0 1	17 13	1 41	9 32	1 30	17 8	0 56	5 26	2 25	16 48	0 18	18 56	1 41	10 14	11 11	7 49	7 23	3 58	17 59	5 19
S 25	23 26	9 48	0 36	20 13	0s11	16 51	1 38	9 47	1 30	17 11	0 56	5 27	2 26	16 47	0 18	18 56	1 41	10 14	11 11	7 50	7 24	4 0	18 0	5 19
S 26	23 24	5 41	0s38	19 51	0 24	16 28	1 34	10 2	1 29	17 14	0 56	5 28	2 26	16 47	0 18	18 55	1 41	10 14	11 11	7 50	7 25	4 2	18 0	5 19
M27	23 22	1 15	1 50	19 29	0 37	16 5	1 31	10 18	1 29	17 17	0 56	5 29	2 26	16 47	0 18	18 55	1 41	10 14	11 11	7 50	7 26	4 4	18 0	5 19
T 28	23 19	3n18	2 56	19 7	0 51	15 42	1 27	10 33	1 29	17 20	0 56	5 30	2 26	16 46	0 18	18 55	1 41	10 14	11 11	7 50	7 28	4 6	18 0	5 19
W29	23 16	7 41	3 52	18 46	1 5	15 18	1 24	10 48	1 29	17 23	0 56	5 31	2 27	16 46	0 18	18 55	1 41	10 14	1					

SWISS EPHEMERIS for the year 1644

JULY 1644 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	18 38 18	9 ^h 29'15"	28 ^h 04'	2 ^h 03'36"	24 ^h 04'33"	3 ^h 08'23"	22 ^h 28'22"	19 ^h 05'59"	17 ^h R21	1 ^h R45	5 ^h II30	9 ^h R48	10 ^h 49	17 ^h 05'59"	23 ^h II36
S 2	18 42 15	10 ^h 26'28"	12 ^h II17	2 ^h 57	25 ^h 44	4 ^h 6	22 ^h 33	20 ^h 2	17 ^h II20	1 ^h 044	5 ^h 31	9 ^h 40	10 ^h 46	18 ^h 5	23 ^h 42
S 3	18 46 11	11 ^h 23'41"	26 ^h 22	3 ^h 14	26 ^h 44	4 ^h 48	22 ^h 45	20 ^h 5	17 ^h 19	1 ^h 43	5 ^h 33	9 ^h 31	10 ^h 43	18 ^h 12	23 ^h 47
M 4	18 50 8	12 ^h 20'54"	10 ^h 02	3 ^h 26	27 ^h 44	5 ^h 30	22 ^h 57	20 ^h 8	17 ^h 18	1 ^h 42	5 ^h 34	9 ^h 22	10 ^h 40	18 ^h 19	23 ^h 53
T 5	18 54 4	13 ^h 18'08"	23 ^h 45	3 ^h 34	28 ^h 44	6 ^h 12	23 ^h 8	20 ^h 11	17 ^h 17	1 ^h 40	5 ^h 35	9 ^h 13	10 ^h 37	18 ^h 25	23 ^h 58
W 6	18 58 1	14 ^h 15'21"	6 ^h 05	3 ^h R36	29 ^h 43	6 ^h 54	23 ^h 20	20 ^h 14	17 ^h 16	1 ^h 39	5 ^h 36	9 ^h 7	10 ^h 34	18 ^h 32	24 ^h 4
T 7	19 1 57	15 ^h 12'35"	19 ^h 50	3 ^h 34	0 ^h 42	7 ^h 36	23 ^h 31	20 ^h 16	17 ^h 15	1 ^h 38	5 ^h 37	9 ^h 3	10 ^h 30	18 ^h 39	24 ^h 9
F 8	19 5 54	16 ^h 9'49"	2 ^h 42	3 ^h 27	1 ^h 41	8 ^h 18	23 ^h 42	20 ^h 19	17 ^h 14	1 ^h 37	5 ^h 38	9 ^h 1	10 ^h 27	18 ^h 45	24 ^h 15
S 9	19 9 50	17 ^h 7'02"	14 ^h 37	3 ^h 16	2 ^h 39	9 ^h 0	23 ^h 53	20 ^h 21	17 ^h 13	1 ^h 36	5 ^h 39	9 ^h D 1	10 ^h 24	18 ^h 52	24 ^h 20
S 10	19 13 47	18 ^h 4'16"	26 ^h 40	2 ^h 59	3 ^h 37	9 ^h 41	24 ^h 4	20 ^h 24	17 ^h 12	1 ^h 35	5 ^h 40	9 ^h 2	10 ^h 21	18 ^h 59	24 ^h 25
M 11	19 17 44	19 ^h 1'30"	8 ^h 03	2 ^h 39	4 ^h 34	10 ^h 23	24 ^h 15	20 ^h 26	17 ^h 12	1 ^h 34	5 ^h 41	9 ^h 3	10 ^h 18	19 ^h 5	24 ^h 31
T 12	19 21 40	19 ^h 58'45"	20 ^h 24	2 ^h 14	5 ^h 31	11 ^h 4	24 ^h 26	20 ^h 28	17 ^h 11	1 ^h 33	5 ^h 42	9 ^h R 4	10 ^h 15	19 ^h 12	24 ^h 36
W 13	19 25 37	20 ^h 55'59"	2 ^h 16	1 ^h 45	6 ^h 28	11 ^h 45	24 ^h 37	20 ^h 30	17 ^h 10	1 ^h 32	5 ^h 43	9 ^h 3	10 ^h 11	19 ^h 19	24 ^h 41
T 14	19 29 33	21 ^h 53'14"	1 ^h 15	1 ^h 12	7 ^h 24	12 ^h 26	24 ^h 47	20 ^h 32	17 ^h 10	1 ^h 31	5 ^h 44	9 ^h 1	10 ^h 8	19 ^h 25	24 ^h 47
F 15	19 33 30	22 ^h 50'28"	26 ^h 25	0 ^h 36	8 ^h 19	13 ^h 7	24 ^h 58	20 ^h 34	17 ^h 9	1 ^h 31	5 ^h 45	8 ^h 56	10 ^h 5	19 ^h 32	24 ^h 52
S 16	19 37 26	23 ^h 47'44"	8 ^h 49	29 ^h 58	9 ^h 15	13 ^h 48	25 ^h 8	20 ^h 36	17 ^h 9	1 ^h 30	5 ^h 46	8 ^h 50	10 ^h 2	19 ^h 39	24 ^h 57
S 17	19 41 23	24 ^h 44'59"	21 ^h 32	29 ^h 17	10 ^h 9	14 ^h 29	25 ^h 18	20 ^h 38	17 ^h 8	1 ^h 29	5 ^h 47	8 ^h 43	9 ^h 59	19 ^h 45	25 ^h 2
M 18	19 45 19	25 ^h 42'16"	4 ^h 33	28 ^h 35	11 ^h 3	15 ^h 10	25 ^h 29	20 ^h 39	17 ^h 8	1 ^h 28	5 ^h 48	8 ^h 36	9 ^h 55	19 ^h 52	25 ^h 7
T 19	19 49 16	26 ^h 39'32"	17 ^h 53	27 ^h 53	11 ^h 56	15 ^h 50	25 ^h 39	20 ^h 41	17 ^h 7	1 ^h 27	5 ^h 49	8 ^h 29	9 ^h 52	19 ^h 59	25 ^h 12
W 20	19 53 13	27 ^h 36'49"	1 ^h 30	27 ^h 10	12 ^h 49	16 ^h 31	25 ^h 49	20 ^h 42	17 ^h 7	1 ^h 27	5 ^h 50	8 ^h 23	9 ^h 49	20 ^h 5	25 ^h 18
T 21	19 57 9	28 ^h 34'07"	15 ^h 21	26 ^h 28	13 ^h 42	17 ^h 11	25 ^h 59	20 ^h 43	17 ^h 7	1 ^h 26	5 ^h 51	8 ^h 20	9 ^h 46	20 ^h 12	25 ^h 23
F 22	20 1 6	29 ^h 31'26"	29 ^h 24	25 ^h 48	14 ^h 33	17 ^h 51	26 ^h 8	20 ^h 45	17 ^h 6	1 ^h 25	5 ^h 52	8 ^h 18	9 ^h 43	20 ^h 19	25 ^h 28
S 23	20 5 2	0 ^h 28'46"	13 ^h 34	25 ^h 10	15 ^h 24	18 ^h 31	26 ^h 18	20 ^h 46	17 ^h 6	1 ^h 25	5 ^h 53	8 ^h D18	9 ^h 40	20 ^h 25	25 ^h 33
S 24	20 8 59	1 ^h 26'06"	27 ^h 48	24 ^h 35	16 ^h 15	19 ^h 11	26 ^h 28	20 ^h 47	17 ^h 6	1 ^h 24	5 ^h 54	8 ^h 19	9 ^h 36	20 ^h 32	25 ^h 38
M 25	20 12 55	2 ^h 23'28"	12 ^h 07	24 ^h 4	17 ^h 4	19 ^h 51	26 ^h 37	20 ^h 47	17 ^h 6	1 ^h 23	5 ^h 55	8 ^h 20	9 ^h 33	20 ^h 39	25 ^h 43
T 26	20 16 52	3 ^h 20'50"	26 ^h 17	23 ^h 37	17 ^h 53	20 ^h 31	26 ^h 46	20 ^h 48	17 ^h D 6	1 ^h 23	5 ^h 55	8 ^h 21	9 ^h 30	20 ^h 45	25 ^h 48
W 27	20 20 48	4 ^h 18'14"	10 ^h 02	23 ^h 15	18 ^h 41	21 ^h 11	26 ^h 56	20 ^h 49	17 ^h 6	1 ^h 22	5 ^h 56	8 ^h R21	9 ^h 27	20 ^h 52	25 ^h 52
T 28	20 24 45	5 ^h 15'40"	24 ^h 33	22 ^h 59	19 ^h 29	21 ^h 50	27 ^h 5	20 ^h 49	17 ^h 6	1 ^h 22	5 ^h 57	8 ^h 20	9 ^h 24	20 ^h 59	25 ^h 57
F 29	20 28 42	6 ^h 13'06"	8 ^h II31	22 ^h 48	20 ^h 15	22 ^h 30	27 ^h 14	20 ^h 50	17 ^h 6	1 ^h 21	5 ^h 58	8 ^h 17	9 ^h 21	21 ^h 6	26 ^h 2
S 30	20 32 38	7 ^h 10'34"	22 ^h 20	22 ^h D44	21 ^h 1	23 ^h 9	27 ^h 22	20 ^h 50	17 ^h 7	1 ^h 21	5 ^h 59	8 ^h 13	9 ^h 17	21 ^h 12	26 ^h 7
S 31	20 36 35	8 ^h 08'03"	5 ^h 05	22 ^h 05	21 ^h 46	23 ^h 08	27 ^h 31	20 ^h 51	17 ^h 7	1 ^h 20	5 ^h II59	8 ^h 08	9 ^h 14	21 ^h 19	26 ^h II11

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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		
F 1	23n 9	14n55	4s58	18n 6	1s33	14n30	1n16	11n17	1s28	17n29	0s56	5n33	2s27	16s45	0n18	18s54	1n41	10n14	11s11	7n54	7n31	4s11	18n 0	5s20
S 2	23 4	17 17	5 4	17 47	1 48	14 6	1 12	11 32	1 28	17 32	0 56	5 34	2 27	16 45	0 18	18 54	1 41	10 15	11 11	7 58	7 32	4 13	18 0	5 20
S 3	23 0	18 34	4 52	17 29	2 3	13 41	1 7	11 46	1 27	17 35	0 56	5 35	2 28	16 45	0 18	18 54	1 41	10 15	11 11	8 1	7 34	4 15	18 0	5 20
M 4	22 54	18 44	4 22	17 11	2 18	13 16	1 3	12 1	1 27	17 38	0 56	5 36	2 28	16 44	0 18	18 54	1 41	10 15	11 12	8 4	7 35	4 17	18 0	5 20
T 5	22 49	17 48	3 38	16 55	2 33	12 51	0 58	12 15	1 27	17 41	0 56	5 37	2 28	16 44	0 18	18 54	1 41	10 15	11 12	8 8	7 36	4 19	18 0	5 21
W 6	22 43	15 56	2 43	16 40	2 48	12 26	0 54	12 29	1 26	17 44	0 56	5 38	2 28	16 44	0 18	18 53	1 40	10 15	11 12	8 10	7 37	4 21	18 0	5 21
T 7	22 37	13 17	1 41	16 26	3 2	12 0	0 49	12 43	1 25	17 46	0 57	5 38	2 29	16 44	0 18	18 53	1 40	10 15	11 12	8 11	7 38	4 22	18 0	5 21
F 8	22 30	10 6	0 36	16 14	3 17	11 35	0 44	12 57	1 26	17 49	0 57	5 39	2 29	16 43	0 18	18 53	1 40	10 15	11 12	8 12	7 40	4 24	18 0	5 21
S 9	22 23	6 32	0n30	16 3	3 30	11 9	0 39	13 11	1 25	17 52	0 57	5 40	2 29	16 43	0 18	18 53	1 40	10 15	11 12	8 12	7 41	4 26	18 0	5 22
S 10	22 16	2 46	1 34	15 54	3 44	10 43	0 33	13 24	1 25	17 54	0 57	5 41	2 29	16 43	0 18	18 53	1 40	10 15	11 12	8 12	7 42	4 28	18 0	5 22
M 11	22 8	1s 4	2 32	15 46	3 56	10 17	0 28	13 38	1 24	17 57	0 57	5 41	2 30	16 43	0 18	18 53	1 40	10 15	11 12	8 11	7 43	4 30	18 0	5 22
T 12	22 0	4 50	3 24	15 40	4 8	9 51	0 22	13 51	1 24	18 0	0 57	5 42	2 30	16 42	0 18	18 52	1 40	10 15	11 12	8 11	7 44	4 32	18 0	5 22
W 13	21 51	8 24	4 8	15 36	4 19	9 25	0 17	14 4	1 23	18 2	0 57	5 42	2 30	16 42	0 18	18 52	1 40	10 15	11 13	8 11	7 46	4 34	18 0	5 23
T 14	21 42	11 40	4 41	15 33</																				

SWISS EPHEMERIS for the year 1644

AUGUST 1644 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	20 40 31	9♂ 5'33	19♂22	22♂54	22♂30	24♂27	27♂40	20♂51	17♂ 7	1°R20	6♂ 0	8°R 4	9♂11	21♂26	26♂16
T 2	20 44 28	10° 3'04	2♂32	23° 9	23°14	25° 6	27°48	20°R51	17° 7	1♂20	6° 1	8♂ 0	9° 8	21°32	26°21
W 3	20 48 24	11° 0'36	15°26	23°01	23°56	25°44	27°56	20°51	17° 8	1°19	6° 1	7°57	9° 5	21°39	26°25
T 4	20 52 21	11°58'10	28° 4	23°59	24°37	26°23	28° 5	20°51	17° 8	1°19	6° 2	7°55	9° 1	21°46	26°30
F 5	20 56 17	12°55'44	10♂28	24°35	25°17	27° 1	28°13	20°50	17° 9	1°19	6° 3	7°D55	8°58	21°52	26°34
S 6	21 0 14	13°53'19	22°38	25°17	25°56	27°39	28°20	20°50	17° 9	1°19	6° 3	7°56	8°55	21°59	26°39
S 7	21 4 11	14°50'56	4♂38	26° 6	26°34	28°18	28°28	20°49	17°10	1°18	6° 4	7°57	8°52	22° 6	26°43
M 8	21 8 7	15°48'33	16°31	27° 1	27°11	28°55	28°36	20°49	17°11	1°18	6° 4	7°59	8°49	22°12	26°47
T 9	21 12 4	16°46'11	28°21	28° 3	27°47	29°33	28°43	20°48	17°11	1°18	6° 5	8° 0	8°46	22°19	26°52
W10	21 16 0	17°43'51	10♂13	29°11	28°21	0♂11	28°51	20°47	17°12	1°18	6° 6	8° 1	8°42	22°26	26°56
T 11	21 19 57	18°41'31	22°11	0♂25	28°54	0°48	28°58	20°46	17°13	1°18	6° 6	8°R 1	8°39	22°32	27° 0
F 12	21 23 53	19°39'13	4♂21	1°44	29°26	1°25	29° 5	20°45	17°14	1°18	6° 7	8° 1	8°36	22°39	27° 4
S 13	21 27 50	20°36'56	16°47	3° 9	29°57	2° 3	29°12	20°44	17°15	1°D18	6° 7	7°59	8°33	22°46	27° 8
S 14	21 31 46	21°34'39	29°31	4°39	0♂25	2°39	29°18	20°43	17°16	1°18	6° 8	7°57	8°30	22°52	27°12
M15	21 35 43	22°32'24	12♂38	6°13	0°53	3°16	29°25	20°42	17°17	1°18	6° 8	7°55	8°26	22°59	27°16
T 16	21 39 40	23°30'11	26° 8	7°52	1°18	3°53	29°31	20°40	17°18	1°18	6° 8	7°53	8°23	23° 6	27°20
W17	21 43 36	24°27'58	10♂8	9°34	1°42	4°29	29°38	20°39	17°19	1°18	6° 9	7°52	8°20	23°12	27°24
T 18	21 47 33	25°25'47	24°12	11°20	2° 5	5° 5	29°44	20°37	17°20	1°18	6° 9	7°51	8°17	23°19	27°28
F 19	21 51 29	26°23'37	8♂39	13° 9	2°25	5°42	29°50	20°36	17°21	1°18	6°10	7°D50	8°14	23°26	27°32
S 20	21 55 26	27°21'29	23°15	15° 0	2°44	6°17	29°55	20°34	17°23	1°19	6°10	7°51	8°11	23°33	27°35
S 21	21 59 22	28°19'23	7♂55	16°53	3° 1	6°53	0♂11	20°32	17°24	1°19	6°10	7°51	8° 7	23°39	27°39
M22	22 3 19	29°17'18	22°33	18°48	3°16	7°29	0° 6	20°30	17°25	1°19	6°11	7°52	8° 4	23°46	27°43
T 23	22 7 15	0♂15'15	7♂ 2	20°44	3°29	8° 4	0°12	20°28	17°27	1°20	6°11	7°53	8° 1	23°53	27°46
W24	22 11 12	1°13'14	21°20	22°41	3°40	8°39	0°17	20°26	17°28	1°20	6°11	7°53	7°58	23°59	27°50
T 25	22 15 9	2°11'15	5♂23	24°39	3°49	9°14	0°22	20°23	17°30	1°20	6°11	7°R53	7°55	24° 6	27°53
F 26	22 19 5	3° 9'18	19°11	26°37	3°56	9°49	0°26	20°21	17°31	1°21	6°12	7°53	7°52	24°13	27°56
S 27	22 23 2	4° 7'23	2♂43	28°34	4° 0	10°23	0°31	20°19	17°33	1°21	6°12	7°53	7°48	24°19	28° 0
S 28	22 26 58	5° 5'30	15°59	0♂32	4° 3	10°57	0°35	20°16	17°35	1°22	6°12	7°52	7°45	24°26	28° 3
M29	22 30 55	6° 3'39	29° 0	2°29	4°R 3	11°32	0°40	20°13	17°36	1°22	6°12	7°52	7°42	24°33	28° 6
T 30	22 34 51	7° 1'49	11♂48	4°26	4° 0	12° 5	0°44	20°11	17°38	1°23	6°12	7°52	7°39	24°39	28° 9
W31	22 38 48	8♂ 0'02	24♂22	6♂22	3♂56	12♂39	0♂48	20°V 8	17♂40	1♂23	6♂12	7°D52	7♂36	24♂46	28♂12

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	18n 1	18n12	3s55	18n32	3s 3	1n 7	2s 2	17n45	1s12	18n44	0s58	5n45	2s36	16s42	0n17	18s51	1n39	10n15	11s15	8n34	8n 8	5s 9	17n57	5s29
T 2	17 46	16 40	3 2	18 45	2 47	0 42	2 10	17 55	1 11	18 45	0 58	5 45	2 36	16 42	0 17	18 51	1 39	10 15	11 16	8 35	8 10	5 11	17 57	5 29
W 3	17 30	14 19	2 0	18 58	2 30	0 17	2 19	18 5	1 11	18 47	0 58	5 44	2 36	16 42	0 17	18 51	1 39	10 15	11 16	8 36	8 11	5 13	17 57	5 29
T 4	17 14	11 19	0 54	19 9	2 14	0s 8	2 29	18 15	1 10	18 49	0 59	5 44	2 36	16 42	0 17	18 51	1 39	10 15	11 16	8 37	8 12	5 15	17 57	5 30
F 5	16 58	7 52	0n14	19 19	1 57	0 32	2 38	18 24	1 9	18 51	0 59	5 44	2 37	16 42	0 17	18 51	1 39	10 15	11 16	8 37	8 13	5 17	17 56	5 30
S 6	16 41	4 9	1 20	19 28	1 41	0 56	2 47	18 34	1 8	18 52	0 59	5 43	2 37	16 43	0 17	18 51	1 39	10 15	11 16	8 37	8 14	5 19	17 56	5 31
S 7	16 25	0 20	2 22	19 35	1 24	1 20	2 57	18 43	1 8	18 54	0 59	5 43	2 37	16 43	0 17	18 51	1 39	10 15	11 17	8 36	8 16	5 21	17 56	5 31
M 8	16 8	3s28	3 17	19 41	1 8	1 44	3 6	18 52	1 7	18 56	0 59	5 42	2 37	16 43	0 17	18 51	1 39	10 15	11 17	8 36	8 17	5 23	17 55	5 31
T 9	15 50	7 7	4 3	19 44	0 52	2 7	3 16	19 1	1 6	18 57	0 59	5 42	2 38	16 43	0 17	18 51	1 39	10 14	11 17	8 35	8 18	5 24	17 55	5 32
W10	15 33	10 29	4 40	19 45	0 37	2 30	3 26	19 10	1 5	18 59	0 59	5 41	2 38	16 44	0 17	18 51	1 39	10 14	11 17	8 35	8 19	5 26	17 55	5 32
T 11	15 15	13 27	5 4	19 44	0 22	2 52	3 36	19 18	1 4	19 0	0 59	5 41	2 38	16 44	0 17	18 51	1 39	10 14	11 17	8 35	8 20	5 28	17 54	5 33
F 12	14 57	15 53	5 15	19 41	0 8	3 14	3 47	19 27	1 4	19 1	0 59	5 40	2 39	16 44	0 17	18 51	1 39	10 14	11 18	8 35	8 22	5 30	17 54	5 33
S 13	14 39	17 39	5 12	19 35	0n 6	3 36	3 57	19 35	1 3	19 3	0 59	5 40	2 39	16 44	0 17	18 51	1 38	10 14	11 18	8 35	8 23	5 32	17 54	5 34
S 14	14 20	18 35	4 54	19 26	0 19	3 57	4 7	19 43	1 2	19 4	1 0	5 39	2 39	16 45	0 17	18 51	1 38	10 14	11 18	8 36	8 24	5 34	17 53	5 34
M15	14 2	18 34	4 20	19 15	0 31	4 17	4 18	19 51	1 1	19 5	1 0	5 38	2 39	16 45	0 17	18 51	1 38	10 14	11 18	8 37	8 25	5 36	17 53	5 34
T 16	13 43	17 30	3 31	19 1	0 42	4 37	4 29	19 59	1 0	19 7	1 0	5 37	2 40	16 45	0 17	18 51	1 38	10 14	11 18	8 38	8 26	5 38	17 53	5 35
W17	13 23	15 24	2 28	18 44	0 53	4 57	4 39	20 6	0 59	19 8	1 0	5 37	2 40	16 46	0 17	18 51	1 38	10 14	11 18	8 38	8 28	5 39	17 52	5 35
T 18	13 4	12 18	1 15	18 24	1 2	5 16	4 50	20 14	0 58	19 9	1 0	5 36	2 40	16 46	0 17	18 51	1 38	10 13	11 19	8 39	8 29	5 41	17 52	5 36
F 19	12 44	8 25	0s 4	18 2	1 11	5 34	5 1	20 21	0 57	19 10	1 0	5 35	2 40	16 46	0 17	18 52	1 38	10 13	11 19	8 39	8 30	5 43	17 51	5 36
S 20	12 25	3 58	1 24	17 37	1 18	5 51	5 12	20 28	0 57	19 11	1 0	5 34	2 41	16 47	0 17	18 52	1 38	10 13	11 19	8 39	8 31	5 45	17 51	5 37
S 21	12 5	0n43	2 39	17 9	1 25	6 8	5 23	20 35	0 56	19 13	1 0	5 33	2 41	16 47	0 17	18 52	1 38	10 13	11 19	8 38	8 32	5 47	17 51	5 37
M22	11 45	5 20	3 43	16 39	1 31	6 24	5 34	20 42	0 55	19 14	1 0	5 32	2 41	16 48	0 17	18 52	1 38	10 13	11 19	8 38	8 34	5 49	17 50	5 38
T 23	11 24	9 35	4 33	16 7	1 36	6 39	5 45	20 49	0 54	19 15	1 0	5 31	2 41	16 48	0 17	18 52	1 38	10 13	11 20	8 38	8 35	5 51	17 50	5 38
W24	11 4	13 14	5 4	15 33	1 39	6 54	5 56	20 55	0 53	19 16	1 1	5 30	2 42	16 48	0 17	18 52	1 38	10 13	11 20	8 38	8 36	5 52	17 49	5 39
T 25	10 43	16 2	5 17	14 56	1 43	7 7	6 7	21 1	0 52	19 16	1 1	5 29	2 42	16 49	0 17	18 52	1 38	10 12	11 20	8 38	8 37	5 54	17 49	5 39
F 26	10 22	17 52	5 11	14 18	1 45	7 20	6 17	21 8	0 51	19 17	1 1	5 28	2 42	16 49	0 17	18 52	1 38	10 12	11 20	8 38	8 38	5 56	17 48	5 40
S 27	10 1	18 39	4 48	13 39	1 46	7 32	6 28	21 14	0 50	19 18	1 1	5 27	2 42	16 50	0 17	18 53	1 38	10 12	11 21	8 38	8 39	5 58	17 48	5 40
S 28	9 40	18 23	4 10	12 58	1 47	7 42	6 39	21 20	0 49	19 19	1 1	5 26	2 42	16 50	0 17	18 53	1 38	10 12	11 21	8 38	8 41	6 0	17 48	5 41
M29	9 18	17 8	3 19	12 16	1 47	7 52	6 49	21 25	0 47	1														

SWISS EPHEMERIS for the year 1644

SEPTEMBER 1644 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	22 42 44	8 ^m 58'16	6 ^m 44	8 ^m 17	3°R49	13 ^h 12	0 ^h 51	20°R 5	17 ^m 42	1 ^h 24	6 ^h 13	7°R52	7 ^m 32	24 ^h 53	28 ^h 15
F 2	22 46 41	9°56'32	18°55	10°11	3 ^h 39	13°45	0°55	20°Y 2	17°44	1°25	6°13	7°R52	7°29	24°59	28°18
S 3	22 50 38	10°54'50	0 ^h 58	12° 5	3°28	14°18	0°58	19°59	17°46	1°25	6°13	7°52	7°26	25° 6	28°21
S 4	22 54 34	11°53'09	12°53	13°57	3°13	14°51	1° 1	19°56	17°48	1°26	6°13	7°51	7°23	25°13	28°23
M 5	22 58 31	12°51'31	24°44	15°48	2°57	15°23	1° 4	19°53	17°50	1°27	6°R13	7°51	7°20	25°20	28°26
T 6	23 2 27	13°49'53	6 ^m 34	17°38	2°38	15°56	1° 7	19°49	17°52	1°27	6°13	7°50	7°17	25°26	28°29
W 7	23 6 24	14°48'18	18°25	19°27	2°17	16°28	1° 9	19°46	17°54	1°28	6°13	7°49	7°13	25°33	28°31
T 8	23 10 20	15°46'44	0 ^h 22	21°15	1°54	16°59	1°12	19°42	17°56	1°29	6°13	7°49	7°10	25°40	28°33
F 9	23 14 17	16°45'12	12°30	23° 2	1°29	17°31	1°14	19°39	17°58	1°30	6°13	7°D48	7° 7	25°46	28°36
S 10	23 18 13	17°43'42	24°52	24°48	1° 1	18° 2	1°16	19°35	18° 0	1°31	6°12	7°48	7° 4	25°53	28°38
S 11	23 22 10	18°42'13	7 ^h 33	26°33	0°32	18°32	1°18	19°32	18° 3	1°32	6°12	7°49	7° 1	26° 0	28°40
M12	23 26 6	19°40'46	20°37	28°16	0° 1	19° 3	1°19	19°28	18° 5	1°33	6°12	7°50	6°58	26° 6	28°42
T 13	23 30 3	20°39'20	4 ^h 6	29°59	29 ^m 29	19°33	1°21	19°24	18° 7	1°34	6°12	7°51	6°54	26°13	28°45
W14	23 34 0	21°37'56	18° 2	1 ^h 41	28°55	20° 3	1°22	19°20	18°10	1°35	6°12	7°52	6°51	26°20	28°47
T 15	23 37 56	22°36'34	2 ^h 22	3°21	28°21	20°33	1°23	19°16	18°12	1°36	6°12	7°R52	6°48	26°26	28°48
F 16	23 41 53	23°35'14	17° 5	5° 1	27°45	21° 2	1°24	19°12	18°15	1°37	6°11	7°52	6°45	26°33	28°50
S 17	23 45 49	24°33'56	2 ^h Y 2	6°39	27° 9	21°31	1°24	19° 8	18°17	1°38	6°11	7°51	6°42	26°40	28°52
S 18	23 49 46	25°32'39	17° 6	8°17	26°32	22° 0	1°25	19° 4	18°20	1°39	6°11	7°50	6°38	26°46	28°54
M19	23 53 42	26°31'25	2 ^h 8	9°54	25°55	22°29	1°R25	19° 0	18°22	1°40	6°11	7°47	6°35	26°53	28°55
T 20	23 57 39	27°30'13	16°59	11°30	25°18	22°57	1°25	18°56	18°25	1°42	6°10	7°45	6°32	27° 0	28°57
W21	0 1 35	28°29'04	1 ^h 33	13° 4	24°41	23°25	1°25	18°51	18°28	1°43	6°10	7°43	6°29	27° 7	28°58
T 22	0 5 32	29°27'56	15°45	14°38	24° 5	23°52	1°24	18°47	18°30	1°44	6°10	7°41	6°26	27°13	29° 0
F 23	0 9 29	0 ^h 26'51	29°33	16°11	23°30	24°19	1°24	18°43	18°33	1°45	6° 9	7°D40	6°23	27°20	29° 1
S 24	0 13 25	1°25'49	12 ^h 59	17°43	22°55	24°46	1°23	18°38	18°36	1°47	6° 9	7°41	6°19	27°27	29° 2
S 25	0 17 22	2°24'49	26° 3	19°15	22°22	25°12	1°22	18°34	18°39	1°48	6° 9	7°42	6°16	27°33	29° 3
M26	0 21 18	3°23'51	8 ^h 48	20°45	21°51	25°38	1°21	18°29	18°42	1°49	6° 8	7°44	6°13	27°40	29° 4
T 27	0 25 15	4°22'55	21°18	22°15	21°20	26° 4	1°19	18°25	18°45	1°51	6° 8	7°45	6°10	27°47	29° 5
W28	0 29 11	5°22'01	3 ^h 36	23°43	20°52	26°29	1°17	18°20	18°47	1°52	6° 7	7°R46	6° 7	27°53	29° 6
T 29	0 33 8	6°21'10	15°43	25°11	20°26	26°54	1°16	18°16	18°50	1°54	6° 7	7°46	6° 3	28° 0	29° 7
F 30	0 37 4	7 ^h 20'21	27 ^h 44	26 ^h 38	20 ^h 1	27 ^h 19	1 ^h 14	18°Y11	18 ^m 53	1 ^h 55	6 ^h 11	7 ^h 44	6 ^h 0	28 ^h 7	29 ^h 8

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	8n13	8n58	0 s 6	10n 4	1n43	8s13	7s19	21n42	0s44	19n22	1 s 1	5n21	2s43	16s52	0n17	18s53	1n37	10n11	11s22	8n38	8n45	6s 7	17n46	5s43
F 2	7 51	5 20	1n 1	9 19	1 41	8 18	7 28	21 47	0 43	19 22	1 2	5 19	2 44	16 53	0 17	18 54	1 37	10 11	11 22	8 38	8 47	6 9	17 45	5 43
S 3	7 29	1 31	2 5	8 33	1 38	8 22	7 37	21 52	0 42	19 23	1 2	5 18	2 44	16 53	0 17	18 54	1 37	10 11	11 22	8 38	8 48	6 11	17 45	5 44
S 4	7 7	2s18	3 2	7 47	1 34	8 24	7 46	21 57	0 41	19 24	1 2	5 17	2 44	16 54	0 17	18 54	1 37	10 11	11 22	8 38	8 49	6 13	17 44	5 44
M 5	6 45	6 0	3 52	7 0	1 30	8 25	7 54	22 2	0 40	19 24	1 2	5 15	2 44	16 55	0 17	18 54	1 37	10 10	11 22	8 39	8 50	6 15	17 44	5 45
T 6	6 22	9 28	4 31	6 13	1 26	8 25	8 2	22 6	0 38	19 25	1 2	5 14	2 44	16 55	0 17	18 54	1 37	10 10	11 23	8 39	8 51	6 17	17 43	5 45
W 7	6 0	12 33	4 59	5 26	1 22	8 23	8 9	22 11	0 37	19 25	1 2	5 12	2 45	16 56	0 17	18 55	1 37	10 10	11 23	8 39	8 52	6 19	17 43	5 46
T 8	5 37	15 8	5 14	4 39	1 17	8 19	8 15	22 15	0 36	19 25	1 2	5 11	2 45	16 56	0 17	18 55	1 37	10 10	11 23	8 39	8 54	6 20	17 42	5 46
F 9	5 14	17 7	5 16	3 52	1 12	8 15	8 21	22 19	0 35	19 26	1 2	5 9	2 45	16 57	0 17	18 55	1 37	10 10	11 23	8 39	8 55	6 22	17 42	5 47
S 10	4 52	18 20	5 3	3 5	1 6	8 8	8 26	22 23	0 33	19 26	1 2	5 8	2 45	16 58	0 17	18 55	1 37	10 9	11 23	8 39	8 56	6 24	17 41	5 48
S 11	4 29	18 41	4 35	2 18	1 0	8 1	8 31	22 27	0 32	19 26	1 3	5 6	2 45	16 58	0 16	18 56	1 37	10 9	11 24	8 39	8 57	6 26	17 41	5 48
M12	4 6	18 4	3 53	1 31	0 54	7 52	8 34	22 31	0 31	19 26	1 3	5 5	2 45	16 59	0 16	18 56	1 37	10 9	11 24	8 39	8 58	6 28	17 40	5 49
T 13	3 43	16 25	2 56	0 45	0 48	7 42	8 37	22 35	0 29	19 27	1 3	5 3	2 46	17 0	0 16	18 56	1 37	10 9	11 24	8 39	9 0	6 30	17 39	5 49
W14	3 19	13 45	1 48	0s 2	0 42	7 30	8 39	22 39	0 28	19 27	1 3	5 2	2 46	17 0	0 16	18 56	1 37	10 8	11 24	8 38	9 1	6 32	17 39	5 50
T 15	2 56	10 10	0 30	0 48	0 35	7 17	8 40	22 42	0 27	19 27	1 3	5 0	2 46	17 1	0 16	18 57	1 37	10 8	11 24	8 38	9 2	6 34	17 38	5 50
F 16	2 33	5 53	0s51	1 34	0 29	7 3	8 40	22 45	0 25	19 27	1 3	4 58	2 46	17 2	0 16	18 57	1 36	10 8	11 25	8 38	9 3	6 35	17 38	5 51
S 17	2 10	1 10	2 10	2 19	0 22	6 48	8 39	22 49	0 24	19 27	1 3	4 57	2 46	17 3	0 16	18 57	1 36	10 8	11 25	8 38	9 4	6 37	17 37	5 51
S 18	1 46	3n39	3 20	3 4	0 15	6 31	8 37	22 52	0 23	19 27	1 3	4 55	2 46	17 3	0 16	18 57	1 36	10 7	11 25	8 39	9 5	6 39	17 37	5 52
M19	1 23	8 13	4 17	3 48	0 8	6 14	8 34	22 55	0 21	19 27	1 3	4 53	2 46	17 4	0 16	18 58	1 36	10 7	11 25	8 40	9 7	6 41	17 36	5 53
T 20	1 0	12 13	4 55	4 33	0 1	5 56	8 31	22 58	0 20	19 27	1 3	4 52	2 47	17 5	0 16	18 58	1 36	10 7	11 25	8 41	9 8	6 43	17 36	5 53
W21	0 36	15 23	5 13	5 16	0s 7	5 38	8 26	23 1	0 18	19 27	1 4	4 50	2 47	17 6	0 16	18 58	1 36	10 7	11 26	8 42	9 9	6 45	17 35	5 54
T 22	0 13	17 33	5 12	5 59	0 14	5 18	8 21	23 4	0 17	19 26	1 4	4 48	2 47	17 6	0 16	18 59	1 36	10 7	11 26	8 42	9 10	6 47	17 34	5 54
F 23	0s11	18 36	4 53	6 42	0 21	4 58	8 14	23 6	0 15	19 26	1 4	4 46	2 47	17 7	0 16	18 59	1 36	10 6	11 26	8 42	9 11	6 48	17 34	5 55
S 24	0 34	18 35	4 18	7 24	0 28	4 38	8 7	23 9	0 14	19 26	1 4	4 45	2 47	17 8	0 16	18 59	1 36	10 6	11 26	8 42	9 12	6 50	17 33	5 56
S 25	0 58	17 33	3 30	8 6	0 36	4 18	7 59	23 12	0 12	19 26	1 4	4 43	2 47	17 9	0 16	18 59	1 36	10 6	11 26	8 42	9 14	6 52	17 33	5 56
M26	1 21	15 38	2 33	8 47	0 43	3 57	7 50	23 14	0 11	19 25	1 4	4 41	2 47	17 10	0 16	19 0	1 36	10 6	11 26	8 41	9 15	6 54	17 32	5 57
T 27	1 15	13 1	1 29	9 27	0 50	3 37	7 41	23 17	0 9	19 25	1 4	4 39	2 47	17 10	0 16	19 0	1 36	10 5	11 27	8 41	9 16	6 56	17 31	5 57
W28	2 8	9 51	0 23	10 7	0 57	3 17	7 31	23 19	0 7	19 25	1 4	4 37	2 47	17 11	0 16	19 0	1 36	10 5	11 27	8 40	9 17	6 58	17 31	5 58
T 29	2 32	6 19	0n44	10 46	1 5	2 57	7 20	23 21	0 6	19 24	1 4	4 36	2 47	17 12	0 16	19 1	1 36	10 5	11 27					

SWISS EPHEMERIS for the year 1644

OCTOBER 1644 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
S 1	0 41 1	8 ^h 19 ^m 34 ^s	9 ^h 43 ^m 39 ^s	28 ^h 4 ^m	19 ^h R39	27 ^h II43	1 ^h R11	18 ^h R 7	18 ^h ML56	1 ^h 756	6 ^h R 6	7 ^h R41	5 ^h np57	28 ^h 13	29 ^h II 8
S 2	0 44 58	9 ^h 18 ^m 49 ^s	21 ^m 30 ^s	29 ^h 29	19 ^h np19	28 ^h 6	1 ^h II 9	18 ^h Y 2	18 ^h 59	1 ^h 58	6 ^h II 5	7 ^h np36	5 ^h 54	28 ^h 20	29 ^h 9
M 3	0 48 54	10 ^h 18 ^m 06 ^s	3 ^h ML20	0 ^h ML53	19 ^h 1	28 ^h 30	1 ^h 6	17 ^h 57	19 ^h 3	2 ^h 0	6 ^h 5	7 ^h 31	5 ^h 51	28 ^h 27	29 ^h 9
T 4	0 52 51	11 ^h 17 ^m 25 ^s	15 ^m 11 ^s	2 ^h 16	18 ^h 46	28 ^h 52	1 ^h 4	17 ^h 52	19 ^h 6	2 ^h 1	6 ^h 4	7 ^h 24	5 ^h 48	28 ^h 34	29 ^h 10
W 5	0 56 47	12 ^h 16 ^m 46 ^s	27 ^m 4 ^s	3 ^h 38	18 ^h 33	29 ^h 15	1 ^h 0	17 ^h 48	19 ^h 9	2 ^h 3	6 ^h 3	7 ^h 18	5 ^h 44	28 ^h 40	29 ^h 10
T 6	1 0 44	13 ^h 16 ^m 08 ^s	9 ^h 7 ^m 2 ^s	4 ^h 59	18 ^h 22	29 ^h 36	0 ^h 57	17 ^h 43	19 ^h 12	2 ^h 4	6 ^h 3	7 ^h 13	5 ^h 41	28 ^h 47	29 ^h 10
F 7	1 4 40	14 ^h 15 ^m 33 ^s	21 ^m 9 ^s	6 ^h 19	18 ^h 14	29 ^h 58	0 ^h 54	17 ^h 38	19 ^h 15	2 ^h 6	6 ^h 2	7 ^h 9	5 ^h 38	28 ^h 54	29 ^h 10
S 8	1 8 37	15 ^h 15 ^m 00 ^s	3 ^h 328	7 ^h 38	18 ^h 9	0 ^h 519	0 ^h 50	17 ^h 33	19 ^h 18	2 ^h 8	6 ^h 1	7 ^h 6	5 ^h 35	29 ^h 0	29 ^h R10
S 9	1 12 33	16 ^h 14 ^m 28 ^s	16 ^m 4 ^s	8 ^h 56	18 ^h 5	0 ^h 39	0 ^h 47	17 ^h 29	19 ^h 22	2 ^h 9	6 ^h 1	7 ^h D 5	5 ^h 32	29 ^h 7	29 ^h 10
M10	1 16 30	17 ^h 13 ^m 58 ^s	29 ^m 0 ^s	10 ^h 12	18 ^h D 5	0 ^h 59	0 ^h 43	17 ^h 24	19 ^h 25	2 ^h 11	6 ^h 0	7 ^h 6	5 ^h 29	29 ^h 14	29 ^h 10
T 11	1 20 26	18 ^h 13 ^m 30 ^s	12 ^h 221	11 ^h 27	18 ^h 6	1 ^h 18	0 ^h 38	17 ^h 19	19 ^h 28	2 ^h 13	5 ^h 59	7 ^h 7	5 ^h 25	29 ^h 20	29 ^h 10
W12	1 24 23	19 ^h 13 ^m 03 ^s	26 ^m 9 ^s	12 ^h 40	18 ^h 10	1 ^h 37	0 ^h 34	17 ^h 14	19 ^h 32	2 ^h 14	5 ^h 59	7 ^h 9	5 ^h 22	29 ^h 27	29 ^h 9
T 13	1 28 20	20 ^h 12 ^m 39 ^s	10 ^h 724	13 ^h 52	18 ^h 16	1 ^h 56	0 ^h 30	17 ^h 10	19 ^h 35	2 ^h 16	5 ^h 58	7 ^h R 9	5 ^h 19	29 ^h 34	29 ^h 9
F 14	1 32 16	21 ^h 12 ^m 16 ^s	25 ^m 2 ^s	15 ^h 2	18 ^h 25	2 ^h 14	0 ^h 25	17 ^h 5	19 ^h 38	2 ^h 18	5 ^h 57	7 ^h 8	5 ^h 16	29 ^h 40	29 ^h 9
S 15	1 36 13	22 ^h 11 ^m 55 ^s	10 ^h Y 9	16 ^m 9 ^s	18 ^h 35	2 ^h 31	0 ^h 20	17 ^h 0	19 ^h 42	2 ^h 20	5 ^h 56	7 ^h 4	5 ^h 13	29 ^h 47	29 ^h 8
S 16	1 40 9	23 ^h 11 ^m 36 ^s	25 ^m 25 ^s	17 ^h 15	18 ^h 48	2 ^h 48	0 ^h 15	16 ^h 55	19 ^h 45	2 ^h 22	5 ^h 56	6 ^h 59	5 ^h 9	29 ^h 54	29 ^h 7
M17	1 44 6	24 ^h 11 ^m 18 ^s	10 ^h 344	18 ^h 19	19 ^h 3	3 ^h 4	0 ^h 10	16 ^h 51	19 ^h 48	2 ^h 24	5 ^h 55	6 ^h 52	5 ^h 6	0 ^h ML 1	29 ^h 7
T 18	1 48 2	25 ^h 11 ^m 04 ^s	25 ^m 53	19 ^h 20	19 ^h 20	3 ^h 19	0 ^h 4	16 ^h 46	19 ^h 52	2 ^h 25	5 ^h 54	6 ^h 45	5 ^h 3	0 ^h 7	29 ^h 6
W19	1 51 59	26 ^h 10 ^m 51 ^s	10 ^h II45	20 ^h 18	19 ^h 39	3 ^h 34	2 ^h Y 59	16 ^h 41	19 ^h 55	2 ^h 27	5 ^h 53	6 ^h 38	5 ^h 0	0 ^h 14	29 ^h 5
T 20	1 55 55	27 ^h 10 ^m 40 ^s	25 ^m 11 ^s	21 ^h 13	20 ^h 0	3 ^h 49	2 ^h Y 53	16 ^h 37	19 ^h 59	2 ^h 29	5 ^h 52	6 ^h 32	4 ^h 57	0 ^h 21	29 ^h 4
F 21	1 59 52	28 ^h 10 ^m 32 ^s	9 ^h 56 9	22 ^m 4 ^s	20 ^h 23	4 ^h 3	2 ^h Y 47	16 ^h 32	20 ^h 2	2 ^h 31	5 ^h 51	6 ^h 28	4 ^h 54	0 ^h 27	29 ^h 3
S 22	2 3 49	29 ^h 10 ^m 26 ^s	22 ^m 38 ^s	22 ^m 52 ^s	20 ^h 47	4 ^h 16	2 ^h Y 41	16 ^h 27	20 ^h 6	2 ^h 33	5 ^h 51	6 ^h 26	4 ^h 50	0 ^h 34	29 ^h 2
S 23	2 7 45	0 ^h ML1022	5 ^h Q40	23 ^m 35 ^s	21 ^h 14	4 ^h 28	2 ^h Y 35	16 ^h 23	20 ^h 9	2 ^h 35	5 ^h 50	6 ^h D26	4 ^h 47	0 ^h 41	29 ^h 1
M24	2 11 42	1 ^h 10 ^m 21 ^s	18 ^m 20 ^s	24 ^m 14 ^s	21 ^h 42	4 ^h 40	2 ^h Y 29	16 ^h 18	20 ^h 13	2 ^h 37	5 ^h 49	6 ^h 27	4 ^h 44	0 ^h 47	28 ^h 59
T 25	2 15 38	2 ^h 10 ^m 21 ^s	0 ^h np41	24 ^m 47 ^s	22 ^h 11	4 ^h 51	2 ^h Y 23	16 ^h 14	20 ^h 17	2 ^h 39	5 ^h 48	6 ^h R28	4 ^h 41	0 ^h 54	28 ^h 58
W26	2 19 35	3 ^h 10 ^m 24 ^s	12 ^h 49	25 ^m 14 ^s	22 ^h 43	5 ^h 2	2 ^h Y 16	16 ^h 9	20 ^h 20	2 ^h 41	5 ^h 47	6 ^h 28	4 ^h 38	1 ^h 1	28 ^h 56
T 27	2 23 31	4 ^h 10 ^m 29 ^s	24 ^m 47 ^s	25 ^m 35 ^s	23 ^h 15	5 ^h 11	2 ^h Y 9	16 ^h 5	20 ^h 24	2 ^h 43	5 ^h 46	6 ^h 26	4 ^h 34	1 ^h 8	28 ^h 55
F 28	2 27 28	5 ^h 10 ^m 36 ^s	6 ^h 40	25 ^m 49 ^s	23 ^h 49	5 ^h 20	2 ^h Y 2	16 ^h 1	20 ^h 27	2 ^h 45	5 ^h 45	6 ^h 21	4 ^h 31	1 ^h 14	28 ^h 53
S 29	2 31 24	6 ^h 10 ^m 45 ^s	18 ^h 31	25 ^m R55	24 ^m 25	5 ^h 29	2 ^h Y 56	15 ^h 56	20 ^h 31	2 ^h 47	5 ^h 44	6 ^h 14	4 ^h 28	1 ^h 21	28 ^h 51
S 30	2 35 21	7 ^h 10 ^m 55 ^s	0 ^h ML20	25 ^m 53 ^s	25 ^m 2 ^s	5 ^h 36	2 ^h Y 48	15 ^h 52	20 ^h 35	2 ^h 49	5 ^h 43	6 ^h 5	4 ^h 25	1 ^h 28	28 ^h 50
MB1	2 39 18	8 ^h ML11'08	12 ^h ML12	25 ^h ML42	25 ^h np40	5 ^h 543	2 ^h Y 41	15 ^h Y48	20 ^h ML38	2 ^h 751	5 ^h II42	6 ^h Y53	4 ^h np22	1 ^h ML34	28 ^h II48

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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	decl	lat
S 1	3s18	1s17	2n46	12s 2	1s19	2s17	6s57	23n26	0s 2	19n23	1s 4	4n32	2s48	17s14	0n16	19s 1	1n36	10n 4	11s27	8n42	9n21	7s 3	17n29	6s 0
S 2	3 42 5 3	3 37	12 39	1 26	1 59	6 45	23 28	0 1	19 22	1 5	4 30	2 48	17 15	0 16	19 2	1 36	10 4	11 28	8 44	9 22	7 5	17 29	6 0	
M 3	4 5 8 36	4 48	13 15	1 33	1 40	6 33	23 30	0n 1	19 22	1 5	4 28	2 48	17 15	0 16	19 2	1 36	10 4	11 28	8 46	9 23	7 7	17 28	6 1	
T 4	4 28 11 49	4 48	13 50	1 40	1 23	6 20	23 32	0 3	19 21	1 5	4 26	2 48	17 16	0 16	19 3	1 36	10 4	11 28	8 48	9 24	7 9	17 27	6 1	
W 5	4 52 14 34	5 6	14 25	1 46	1 6	6 7	23 34	0 5	19 21	1 5	4 25	2 48	17 17	0 16	19 3	1 36	10 3	11 28	8 51	9 25	7 11	17 27	6 2	
T 6	5 15 16 43	5 11	14 59	1 53	0 50	5 54	23 36	0 7	19 20	1 5	4 23	2 48	17 18	0 16	19 3	1 35	10 3	11 28	8 53	9 27	7 13	17 26	6 3	
F 7	5 38 18 10	5 2	15 32	1 59	0 34	5 41	23 37	0 8	19 19	1 5	4 21	2 48	17 19	0 16	19 4	1 35	10 3	11 28	8 54	9 28	7 14	17 26	6 3	
S 8	6 1 18 48	4 39	16 3	2 5	0 20	5 28	23 39	0 10	19 18	1 5	4 19	2 48	17 20	0 16	19 4	1 35	10 3	11 29	8 55	9 29	7 16	17 25	6 4	
S 9	6 24 18 30	4 2	16 34	2 11	0 6	5 14	23 41	0 12	19 17	1 5	4 17	2 48	17 21	0 16	19 4	1 35	10 2	11 29	8 55	9 30	7 18	17 24	6 4	
M10	6 47 17 16	3 12	17 4	2 17	0n 6	5 1	23 43	0 14	19 17	1 5	4 16	2 48	17 22	0 16	19 5	1 35	10 2	11 29	8 55	9 31	7 20	17 24	6 5	
T 11	7 10 15 2	2 11	17 33	2 23	0 18	4 48	23 45	0 16	19 16	1 5	4 14	2 48	17 22	0 16	19 5	1 35	10 2	11 29	8 55	9 32	7 22	17 23	6 6	
W12	7 32 11 54	0 59	18 1	2 28	0 29	4 34	23 46	0 18	19 15	1 5	4 12	2 48	17 23	0 16	19 6	1 35	10 1	11 29	8 54	9 34	7 24	17 23	6 6	
T 13	7 55 7 57	0s18	18 28																					

SWISS EPHEMERIS for the year 1644

NOVEMBER 1644 GC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
T 1	2 43 14	9♈11'22	24♌ 6	25°R21	26♍20	5♄49	28°R34	15°R44	20♌42	2♃53	5°R41	5°R40	4♎19	1♈41	28°R46
W 2	2 47 11	10°11'39	6♊ 5	24♌51	27° 0	5°55	28♃27	15°R39	20°46	2°56	5♈40	5♎28	4°15	1°48	28♈44
T 3	2 51 7	11°11'56	18° 9	24°10	27°42	5°59	28°19	15°35	20°49	2°58	5°39	5°16	4°12	1°54	28°42
F 4	2 55 4	12°12'16	0♉21	23°20	28°25	6° 3	28°12	15°31	20°53	3° 0	5°38	5° 7	4° 9	2° 1	28°40
S 5	2 59 0	13°12'37	12°43	22°21	29° 9	6° 6	28° 4	15°27	20°57	3° 2	5°37	5° 0	4° 6	2° 8	28°37
S 6	3 2 57	14°12'59	25°18	21°14	29°54	6° 8	27°56	15°24	21° 0	3° 4	5°36	4°56	4° 3	2°15	28°35
M 7	3 6 53	15°13'23	8♋10	20° 0	0♉40	6° 9	27°48	15°20	21° 4	3° 6	5°35	4°54	4° 0	2°21	28°33
T 8	3 10 50	16°13'49	21°23	18°42	1°27	6°R10	27°41	15°16	21° 8	3° 8	5°34	4°D54	3°56	2°28	28°30
W 9	3 14 47	17°14'15	4♋59	17°21	2°15	6° 9	27°33	15°12	21°12	3°11	5°33	4°R55	3°53	2°35	28°28
T 10	3 18 43	18°14'43	19° 0	16° 1	3° 3	6° 8	27°25	15° 9	21°15	3°13	5°32	4°54	3°50	2°41	28°25
F 11	3 22 40	19°15'12	3♈28	14°44	3°53	6° 6	27°17	15° 5	21°19	3°15	5°31	4°51	3°47	2°48	28°23
S 12	3 26 36	20°15'43	18°20	13°33	4°43	6° 3	27° 9	15° 2	21°23	3°17	5°30	4°46	3°44	2°55	28°20
S 13	3 30 33	21°16'15	3♊29	12°29	5°34	5°59	27° 1	14°58	21°26	3°19	5°28	4°38	3°40	3° 1	28°17
M14	3 34 29	22°16'48	18°46	11°35	6°26	5°55	26°52	14°55	21°30	3°22	5°27	4°27	3°37	3° 8	28°14
T 15	3 38 26	23°17'23	4♈ 0	10°51	7°19	5°49	26°44	14°52	21°34	3°24	5°26	4°16	3°34	3°15	28°11
W16	3 42 22	24°17'59	19° 0	10°19	8°12	5°43	26°36	14°49	21°38	3°26	5°25	4° 5	3°31	3°22	28° 8
T 17	3 46 19	25°18'37	3♄37	9°59	9° 7	5°35	26°28	14°46	21°41	3°28	5°24	3°55	3°28	3°28	28° 5
F 18	3 50 16	26°19'17	17°45	9°D50	10° 1	5°27	26°20	14°43	21°45	3°31	5°23	3°48	3°25	3°35	28° 2
S 19	3 54 12	27°19'58	1♈22	9°52	10°57	5°18	26°12	14°40	21°49	3°33	5°22	3°44	3°21	3°42	27°59
S 20	3 58 9	28°20'41	14°30	10° 5	11°53	5° 9	26° 3	14°37	21°52	3°35	5°21	3°42	3°18	3°48	27°56
M21	4 2 5	29°21'26	27°13	10°27	12°49	4°58	25°55	14°35	21°56	3°37	5°19	3°41	3°15	3°55	27°53
T 22	4 6 2	0♉22'12	9♎34	10°58	13°47	4°46	25°47	14°32	22° 0	3°40	5°18	3°41	3°12	4° 2	27°49
W23	4 9 58	1°22'59	21°40	11°37	14°44	4°34	25°39	14°29	22° 3	3°42	5°17	3°40	3° 9	4° 9	27°46
T 24	4 13 55	2°23'49	3♌36	12°23	15°43	4°21	25°31	14°27	22° 7	3°44	5°16	3°37	3° 6	4°15	27°43
F 25	4 17 51	3°24'39	15°26	13°15	16°41	4° 7	25°23	14°25	22°11	3°46	5°15	3°32	3° 2	4°22	27°39
S 26	4 21 48	4°25'31	27°15	14°12	17°41	3°52	25°15	14°23	22°14	3°49	5°14	3°24	2°59	4°29	27°36
S 27	4 25 45	5°26'24	9♈ 5	15°14	18°40	3°36	25° 7	14°20	22°18	3°51	5°13	3°12	2°56	4°35	27°32
M28	4 29 41	6°27'19	21° 0	16°20	19°41	3°20	24°59	14°18	22°22	3°53	5°11	2°59	2°53	4°42	27°29
T 29	4 33 38	7°28'14	3♊ 1	17°30	20°41	3° 3	24°51	14°16	22°25	3°55	5°10	2°44	2°50	4°49	27°25
W30	4 37 34	8♊29'11	15♊ 9	18♈42	21♉42	2♄45	24♃43	14°R15	22♌29	3♃58	5♈ 9	2♎29	2♎46	4♈55	27♈21

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	14s35	14s 2	4n56	21s15	2s10	0n48	0s43	24n25	1n 4	18n49	1s 5	3n38	2s46	17s43	0n16	19s14	1n35	9n56	11s31	9n27	9n57	8s 1	17n11	6s17
W 2	14 54	16 24	5 2	20 55	1 58	0 41	0 34	24 27	1 6	18 47	1 5	3 37	2 46	17 44	0 16	19 14	1 35	9 56	11 31	9 31	9 58	8 2	17 11	6 18
T 3	15 13	18 3	4 55	20 31	1 43	0 32	0 25	24 30	1 9	18 46	1 5	3 36	2 46	17 44	0 16	19 15	1 35	9 56	11 31	9 36	9 59	8 4	17 10	6 19
F 4	15 32	18 55	4 34	20 3	1 27	0 23	0 16	24 32	1 12	18 44	1 5	3 34	2 46	17 45	0 16	19 15	1 35	9 56	11 32	9 39	10 0	8 6	17 10	6 19
S 5	15 50	18 53	4 0	19 31	1 10	0 13	0 8	24 35	1 14	18 42	1 5	3 33	2 46	17 46	0 16	19 15	1 34	9 55	11 32	9 42	10 1	8 8	17 9	6 20
S 6	16 8	17 56	3 14	18 55	0 51	0 3	0n 1	24 38	1 17	18 41	1 5	3 31	2 46	17 47	0 16	19 16	1 34	9 55	11 32	9 43	10 3	8 10	17 9	6 20
M 7	16 26	16 3	2 17	18 17	0 31	0s 8	0 9	24 40	1 20	18 39	1 5	3 30	2 45	17 48	0 16	19 16	1 34	9 55	11 32	9 44	10 4	8 12	17 8	6 21
T 8	16 43	13 17	1 11	17 36	0 11	0 19	0 17	24 43	1 23	18 37	1 5	3 29	2 45	17 49	0 16	19 17	1 34	9 55	11 32	9 44	10 5	8 13	17 7	6 21
W 9	17 1	9 43	0s 0	16 53	0n10	0 31	0 24	24 46	1 26	18 36	1 5	3 28	2 45	17 50	0 16	19 17	1 34	9 55	11 32	9 44	10 6	8 15	17 7	6 21
T 10	17 18	5 30	1 14	16 11	0 30	0 44	0 31	24 49	1 28	18 34	1 5	3 26	2 45	17 51	0 16	19 18	1 34	9 54	11 32	9 44	10 7	8 17	17 6	6 22
F 11	17 34	0 50	2 25	15 30	0 50	0 57	0 39	24 52	1 31	18 32	1 5	3 25	2 45	17 52	0 16	19 18	1 34	9 54	11 32	9 45	10 8	8 19	17 6	6 22
S 12	17 51	3n59	3 28	14 51	1 8	1 11	0 46	24 55	1 34	18 30	1 5	3 24	2 45	17 53	0 16	19 18	1 34	9 54	11 32	9 47	10 10	8 21	17 6	6 23
S 13	18 7	8 39	4 18	14 15	1 25	1 25	0 52	24 58	1 37	18 29	1 5	3 23	2 44	17 54	0 16	19 19	1 34	9 54	11 32	9 50	10 11	8 23	17 5	6 23
M14	18 22	12 48	4 50	13 44	1 40	1 40	0 59	25 1	1 40	18 27	1 5	3 22	2 44	17 55	0 16	19 19	1 34	9 54	11 32	9 54	10 12	8 24	17 5	6 24
T 15	18 38	16 4	5 1	13 19	1 54	1 55	1 5	25 4	1 43	18 25	1 4	3 21	2 44	17 56	0 16	19 20	1 34	9 53	11 32	9 58	10 13	8 26	17 4	6 24
W16	18 53	18 12	4 51	12 58	2 5	2 10	1 11	25 7	1 46	18 23	1 4	3 20	2 44	17 57	0 15	19 20	1 34	9 53	11 32	10 2	10 14	8 28	17 4	6 25
T 17	19 8	19 4	4 22	12 43	2 14	2 26	1 17	25 10	1 49	18 21	1 4	3 19	2 44	17 58	0 15	19 21	1 34	9 53	11 32	10 5	10 15	8 30	17 3	6 25
F 18	19 22	18 43	3 37	12 34	2 21	2 43	1 22	25 14	1 52	18 20	1 4	3 18	2 43	17 59	0 15	19 21	1 34	9 53	11 32	10 8	10 16	8 32	17 3	6 25
S 19	19 36	17 15	2 42	12 29	2 26	3 0	1 28	25 17	1 55	18 18	1 4	3 17	2 43	18 0	0 15	19 22	1 34	9 53	11 32	10 10	10 18	8 34	17 2	6 26
S 20	19 50	14 55	1 40	12 30	2 30	3 17	1 33	25 20	1 58	18 16	1 4	3 16	2 43	18 1	0 15	19 22	1 34	9 52	11 32	10 10	10 19	8 35	17 2	6 26
M21	20 3	11 56	0 34	12 35	2 31	3 34	1 38	25 24	2 0	18 14	1 4	3 15	2 43	18 2	0 15	19 22	1 34	9 52	11 32	10 10	10 20	8 37	17 1	6 27
T 22	20 16	8 29	0n31	12 44	2 32	3 52	1 43	25 27	2 3	18 13	1 4	3 14	2 43	18 3	0 15	19 23	1 34	9 52	11 32	10 11	10 21	8 39	17 1	6 27
W23	20 28	4 45	1 34	12 57	2 31	4 10	1 47	25 31	2 6	18 11	1 3	3 14	2 42	18 4	0 15	19 23	1 34	9 52	11 32	10 11	10 22	8 41	17 1	6 27
T 24	20 41	0 53	2 31	13 12	2 30	4 28	1 52	25 34	2 9	18 9	1 3	3 13	2 42	18 5	0 15	19 24	1 34	9 52	11 32	10 12	10 23	8 43	17 0	6 28
F 25	20 53	2s59	3 21	13 31	2 27	4 47	1 56	25 37	2 12	18 7	1 3	3 12	2 42	18 6	0 15	19 24	1 34	9 51	11 32	10 14	10 25	8 45	17 0	6 28
S 26	21 4	6 44	4 3	13 51	2 23	5 6	2 0	25 41	2 15	18 5	1 3	3 11	2 42	18 7	0 15	19 25	1 34	9 51	11 32	10 17	10 26	8 46	16 59	6 28
S 27	21 15	10 13	4 34	14 13	2 19	5 25	2 4	25 44	2 18	18 4	1 3	3 12	2 41	18 8	0 15	19 25	1 34	9 51	11 32	10 21	10 27	8 48	16 59	6 29
M28	21 26	13 20	4 53	14 37	2 14	5 44	2 8	25 48	2 21	18 2	1 3	3 11	2 41	18 9	0 15	19 25	1 34	9 51	11 32	10 26	10 28	8 50	16 59	6 29
T 29	21 36	15 54	4 59	15 1	2 9	6 4	2 11	25 51	2 24	18 0	1 2	3 10	2 41	18 10	0 15	19 26	1 34	9 51	11 32	10 31	10 29	8 52	16 58	6 29
W30	21s46	17s49	4n52	15s27	2n 3	6s24	2n14	25n54	2n27	17n59	1s 2	3												

SWISS EPHEMERIS for the year 1644

DECEMBER 1644 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
T 1	4 41 31	9♁30'09	27♁25	19♁58	22♁44	2°R27	24°R36	14°R13	22♁33	4♁ 0	5°R 8	2°R15	2♁43	5♁ 2	27°R18	
F 2	4 45 27	10°31'08	9♁30	21°15	23°46	2♁ 8	24♁28	14°Y11	22°36	4° 2	5°II 7	2♁ 4	2°40	5° 9	27°II14	
S 3	4 49 24	11°32'07	22°24	22°35	24°48	1°48	24°21	14°10	22°40	4° 5	5° 6	1°55	2°37	5°16	27°10	
S 4	4 53 20	12°33'08	5♁ 9	23°56	25°51	1°28	24°13	14° 9	22°43	4° 7	5° 5	1°50	2°34	5°22	27° 7	
M 5	4 57 17	13°34'08	18° 6	25°19	26°54	1° 7	24° 6	14° 7	22°47	4° 9	5° 4	1°47	2°31	5°29	27° 3	
T 6	5 1 14	14°35'10	1♁19	26°42	27°57	0°46	23°59	14° 6	22°50	4°11	5° 2	1°D47	2°27	5°36	26°59	
W 7	5 5 10	15°36'12	14°50	28° 7	29° 1	0°24	23°52	14° 5	22°54	4°13	5° 1	1°R47	2°24	5°42	26°55	
T 8	5 9 7	16°37'14	28°40	29°33	0♁ 5	0° 2	23°45	14° 4	22°57	4°16	5° 0	1°46	2°21	5°49	26°51	
F 9	5 13 3	17°38'17	12°Y51	1♁ 0	1° 9	29°II39	23°38	14° 3	23° 1	4°18	4°59	1°44	2°18	5°56	26°47	
S 10	5 17 0	18°39'20	27°22	2°28	2°14	29°16	23°31	14° 2	23° 4	4°20	4°58	1°39	2°15	6° 3	26°43	
S 11	5 20 56	19°40'24	12♁10	3°56	3°19	28°53	23°24	14° 2	23° 8	4°22	4°57	1°32	2°12	6° 9	26°39	
M12	5 24 53	20°41'28	27° 7	5°24	4°24	28°30	23°18	14° 1	23°11	4°25	4°56	1°22	2° 8	6°16	26°36	
T 13	5 28 49	21°42'33	12°II 6	6°53	5°29	28° 6	23°12	14° 1	23°15	4°27	4°55	1°11	2° 5	6°23	26°32	
W14	5 32 46	22°43'38	26°56	8°23	6°35	27°43	23° 5	14° 1	23°18	4°29	4°54	1° 0	2° 2	6°29	26°28	
T 15	5 36 43	23°44'44	11♁29	9°53	7°41	27°19	22°59	14° 0	23°21	4°31	4°52	0°51	1°59	6°36	26°24	
F 16	5 40 39	24°45'50	25°38	11°23	8°47	26°55	22°54	14°D 0	23°25	4°33	4°51	0°44	1°56	6°43	26°20	
S 17	5 44 36	25°46'57	9♁19	12°54	9°54	26°32	22°48	14° 0	23°28	4°35	4°50	0°39	1°52	6°50	26°16	
S 18	5 48 32	26°48'05	22°33	14°25	11° 0	26° 8	22°42	14° 0	23°31	4°37	4°49	0°37	1°49	6°56	26°12	
M19	5 52 29	27°49'13	5♁21	15°56	12° 7	25°44	22°37	14° 1	23°35	4°40	4°48	0°D37	1°46	7° 3	26° 8	
T 20	5 56 25	28°50'21	17°48	17°28	13°15	25°21	22°32	14° 1	23°38	4°42	4°47	0°37	1°43	7°10	26° 4	
W21	6 0 22	29°51'31	29°57	18°59	14°22	24°58	22°27	14° 2	23°41	4°44	4°46	0°R38	1°40	7°16	26° 0	
T 22	6 4 18	0♁52'40	11♁55	20°32	15°30	24°35	22°22	14° 2	23°44	4°46	4°45	0°37	1°37	7°23	25°56	
F 23	6 8 15	1°53'51	23°46	22° 4	16°38	24°12	22°17	14° 3	23°47	4°48	4°44	0°34	1°33	7°30	25°52	
S 24	6 12 12	2°55'01	5♁35	23°37	17°46	23°50	22°12	14° 4	23°50	4°50	4°43	0°29	1°30	7°37	25°48	
S 25	6 16 8	3°56'13	17°28	25°10	18°54	23°28	22° 8	14° 5	23°53	4°52	4°42	0°22	1°27	7°43	25°44	
M26	6 20 5	4°57'24	29°27	26°43	20° 2	23° 7	22° 4	14° 6	23°56	4°54	4°41	0°12	1°24	7°50	25°40	
T 27	6 24 1	5°58'36	11♁35	28°17	21°11	22°46	22° 0	14° 7	24° 0	4°56	4°40	0° 1	1°21	7°57	25°36	
W28	6 27 58	6°59'48	23°54	29°51	22°19	22°25	21°56	14° 8	24° 2	4°58	4°39	29♁Ω1	1°18	8° 3	25°32	
T 29	6 31 54	8° 0'59	6♁24	1♁25	23°28	22° 5	21°52	14° 9	24° 5	5° 0	4°38	29°41	1°14	8°10	25°28	
F 30	6 35 51	9° 2'11	19° 6	3° 0	24°37	21°46	21°49	14°11	24° 8	5° 2	4°37	29°32	1°11	8°17	25°24	
S 31	6 39 47	10♁ 3'23	1♁59	4♁35	25♁47	21°II27	21♁46	14°Y12	24♁11	5♁ 4	4°II36	29♁Ω27	1♁ 8	8♁24	25°II20	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	21s55	18s56	4n32	15s53	1n57	6s44	2n18	25n57	2n30	17n57	1s 2	3n 9	2s40	18s12	0n15	19s27
F 2	22 4 19 10	3 58 16 20	1 50 7 4	2 21 26 0	2 32 17 55	1 2 3 9	2 40 18 12	0 15 19 27	1 34 9 50	11 32 10 46	10 33 8 57	16 57 6 30				
S 3	22 12 18 28	3 12 16 47	1 43 7 24	2 23 26 3	2 35 17 54	1 2 3 8	2 40 18 13	0 15 19 27	1 34 9 50	11 32 10 49	10 34 8 59	16 57 6 30				
S 4	22 21 16 49	2 16 17 14	1 36 7 44	2 26 26 6	2 38 17 52	1 2 3 8	2 40 18 14	0 15 19 28	1 34 9 50	11 31 10 51	10 35 9 1	16 56 6 31				
M 5	22 28 14 18	1 12 17 41	1 29 8 5	2 28 26 9	2 40 17 50	1 1 3 8	2 39 18 15	0 15 19 28	1 34 9 50	11 31 10 51	10 36 9 3	16 56 6 31				
T 6	22 35 10 59	0 2 18 8	1 22 8 25	2 31 26 12	2 43 17 49	1 1 3 8	2 39 18 16	0 15 19 29	1 34 9 50	11 31 10 52	10 37 9 5	16 56 6 31				
W 7	22 42 7 2	1s 9 18 34	1 15 8 46	2 33 26 14	2 46 17 47	1 1 3 7	2 39 18 17	0 15 19 29	1 34 9 50	11 31 10 52	10 38 9 6	16 55 6 31				
T 8	22 49 2 38	2 17 19 0	1 7 9 6	2 35 26 17	2 48 17 46	1 1 3 7	2 39 18 18	0 15 19 30	1 34 9 50	11 31 10 52	10 39 9 8	16 55 6 32				
F 9	22 54 2n 2	3 19 19 25	1 0 9 27	2 36 26 19	2 50 17 44	1 1 3 7	2 38 18 19	0 15 19 30	1 34 9 50	11 31 10 53	10 41 9 10	16 55 6 32				
S 10	23 0 6 40	4 10 19 50	0 52 9 48	2 38 26 22	2 53 17 43	1 0 3 7	2 38 18 20	0 15 19 30	1 34 9 50	11 31 10 54	10 42 9 12	16 55 6 32				
S 11	23 5 10 59	4 45 20 14	0 45 10 4	2 39 26 24	2 55 17 41	1 0 3 7	2 38 18 20	0 15 19 31	1 34 9 49	11 31 10 57	10 43 9 14	16 54 6 32				
M12	23 9 14 40	5 1 20 38	0 37 10 29	2 41 26 26	2 57 17 40	1 0 3 7	2 37 18 21	0 15 19 31	1 34 9 49	11 31 11 0	10 44 9 15	16 54 6 32				
T 13	23 13 17 23	4 56 21 1	0 30 10 50	2 42 26 27	2 59 17 39	1 0 3 7	2 37 18 22	0 15 19 31	1 34 9 49	11 31 11 4	10 45 9 17	16 54 6 33				
W14	23 17 18 55	4 32 21 23	0 22 11 10	2 43 26 29	3 1 17 37	0 59 3 8	2 37 18 23	0 15 19 32	1 34 9 49	11 31 11 8	10 46 9 19	16 54 6 33				
T 15	23 20 19 10	3 50 21 44	0 15 11 31	2 44 26 31	3 3 17 36	0 59 3 8	2 37 18 24	0 15 19 32	1 34 9 49	11 30 11 12	10 47 9 21	16 53 6 33				
F 16	23 23 18 12	2 55 22 4	0 8 11 51	2 45 26 32	3 5 17 35	0 59 3 8	2 36 18 25	0 15 19 33	1 34 9 49	11 30 11 14	10 48 9 23	16 53 6 33				
S 17	23 25 16 10	1 51 22 23	0 0 12 12	2 45 26 33	3 7 17 33	0 59 3 8	2 36 18 26	0 15 19 33	1 34 9 49	11 30 11 16	10 50 9 25	16 53 6 33				
S 18	23 27 13 21	0 43 22 41	0s 7 12 32	2 46 26 34	3 9 17 32	0 58 3 8	2 36 18 26	0 15 19 33	1 34 9 49	11 30 11 16	10 51 9 26	16 53 6 33				
M19	23 28 9 57	0n25 22 58	0 14 12 52	2 46 26 35	3 10 17 31	0 58 3 9	2 36 18 27	0 15 19 34	1 34 9 49	11 30 11 17	10 52 9 28	16 53 6 33				
T 20	23 29 6 13	1 30 23 14	0 20 13 12	2 46 26 36	3 12 17 30	0 58 3 9	2 35 18 28	0 15 19 34	1 34 9 49	11 30 11 16	10 53 9 30	16 52 6 33				
W21	23 29 2 19	2 30 23 29	0 27 13 32	2 46 26 36	3 13 17 29	0 58 3 10	2 35 18 29	0 15 19 34	1 34 9 49	11 30 11 16	10 54 9 32	16 52 6 33				
T 22	23 29 1s37	3 22 23 42	0 34 13 52	2 46 26 37	3 14 17 28	0 57 3 10	2 35 18 30	0 15 19 35	1 34 9 49	11 29 11 16	10 55 9 34	16 52 6 33				
F 23	23 28 5 27	4 5 23 55	0 40 14 11	2 46 26 37	3 16 17 27	0 57 3 11	2 34 18 30	0 15 19 35	1 34 9 49	11 29 11 17	10 56 9 35	16 52 6 33				
S 24	23 27 9 3	4 37 24 6	0 47 14 31	2 45 26 37	3 17 17 26	0 57 3 11	2 34 18 31	0 15 19 36	1 34 9 49	11 29 11 19	10 58 9 37	16 52 6 33				
S 25	23 25 12 19	4 57 24 16	0 53 14 50	2 45 26 37	3 18 17 25	0 57 3 12	2 34 18 32	0 15 19 36	1 34 9 49	11 29 11 22	10 59 9 39	16 52 6 34				
M26	23 23 15 6	5 5 24 25	0 59 15 9	2 44 26 37	3 19 17 24	0 56 3 13	2 34 18 33	0 15 19 36	1 34 9 49	11 29 11 25	11 0 9 41	16 51 6 34				
T 27	23 21 17 17	4 59 24 33	1 4 15 27	2 44 26 37	3 20 17 24	0 56 3 13	2 33 18 33	0 15 19 37	1 35 9 49	11 29 11 29	11 1 9 43	16 51 6 34				
W28	23 18 18 42	4 39 24 39	1 10 15 46	2 43 26 36	3 21 17 23	0 56 3 14	2 33 18 34	0 15 19 37	1 35 9 49	11 29 11 33	11 2 9 44	16 51 6 33				
T 29	23 14 19 15	4 5 24 44	1 15 16 4	2 42 26 36	3 21 17 22	0 56 3 15	2 33 18 35	0 15 19 37	1 35 9 49	11 28 11 36	11 3 9 46	16 51 6 33				
F 30	23 10 18 50	3 19 24 47	1 20 16 21	2 41 26 35	3 22 17 22	0 55 3 16	2 32 18 36	0 15 19 38	1 35 9 49	11 28 11 39	11 4 9 48	16 51 6 33				
S 31	23s 6 17s27	2n22 24s50	1s25 16s39	2n40 26n34	3n22 17n21	0s55 3n16	2s32 18s36	0n15 19s38	1n35 9n49	11s28 11n41	11n 5 9s50	16n51 6s33				

Julian Day Number = 2321853.5, Delta T = 52.31 sec
 Ecliptic obliquity = 23°28'59", Nutation = - 0°00'09"
 Ayanamsha: Fagan/Bradley = 19°47'03", Lahiri = 18°54'03"Greg. Calendar