

SWISS EPHEMERIS for the year 1669

JANUARY 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	6 44 28	11♁14'57	20♁23	18♁34	28♁13	1♁14	2°R26	11♁53	29♁35	25♁44	29°R32	18°R33	16♁53	25♁5	1♁29
W 2	6 48 25	12°16'09	5♁29	19°18	29°23	2° 1	2II21	11°59	29°37	25°47	29II31	18♁27	16°50	25°12	1°32
T 3	6 52 21	13°17'21	20°26	20° 6	0♁34	2°47	2°17	12° 6	29°40	25°49	29°29	18°19	16°47	25°19	1°35
F 4	6 56 18	14°18'32	6♁4	20°59	1°44	3°33	2°12	12°12	29°43	25°51	29°28	18°10	16°43	25°25	1°38
S 5	7 0 14	15°19'43	21°11	21°55	2°55	4°19	2° 8	12°19	29°45	25°53	29°27	18° 1	16°40	25°32	1°41
S 6	7 4 11	16°20'53	5♁57	22°55	4° 6	5° 5	2° 4	12°26	29°48	25°56	29°26	17°53	16°37	25°39	1°44
M 7	7 8 7	17°22'03	20°17	23°58	5°17	5°51	2° 0	12°33	29°51	25°58	29°25	17°48	16°34	25°45	1°47
T 8	7 12 4	18°23'12	4♀9	25° 4	6°28	6°37	1°57	12°39	29°54	26° 0	29°24	17°45	16°31	25°52	1°50
W 9	7 16 0	19°24'20	17°32	26°12	7°39	7°23	1°53	12°46	29°56	26° 2	29°22	17°D44	16°28	25°59	1°53
T 10	7 19 57	20°25'28	0♁31	27°22	8°50	8° 9	1°50	12°53	29°59	26° 5	29°21	17°44	16°24	26° 6	1°57
F 11	7 23 54	21°26'35	13° 9	28°34	10° 2	8°55	1°47	13° 0	0♁2	26° 7	29°20	17°R45	16°21	26°12	2° 0
S 12	7 27 50	22°27'41	25°30	29°48	11°13	9°41	1°44	13° 7	0° 5	26° 9	29°19	17°44	16°18	26°19	2° 3
S 13	7 31 47	23°28'46	7II39	1♁4	12°25	10°27	1°42	13°14	0° 8	26°11	29°18	17°42	16°15	26°26	2° 6
M14	7 35 43	24°29'50	19°40	2°21	13°36	11°13	1°39	13°21	0°11	26°14	29°17	17°38	16°12	26°32	2°10
T 15	7 39 40	25°30'54	1♁35	3°39	14°48	11°59	1°37	13°28	0°14	26°16	29°16	17°30	16° 9	26°39	2°13
W16	7 43 36	26°31'57	13°28	4°59	16° 0	12°45	1°35	13°35	0°17	26°18	29°15	17°20	16° 5	26°46	2°16
T 17	7 47 33	27°32'59	25°20	6°20	17°11	13°31	1°33	13°42	0°20	26°21	29°14	17° 7	16° 2	26°53	2°20
F 18	7 51 29	28°34'01	7♁12	7°42	18°23	14°16	1°32	13°49	0°23	26°23	29°13	16°53	15°59	26°59	2°23
S 19	7 55 26	29°35'01	19° 7	9° 5	19°35	15° 2	1°31	13°56	0°26	26°25	29°12	16°39	15°56	27° 6	2°27
S 20	7 59 23	0♁36'01	1♁4	10°29	20°47	15°48	1°29	14° 3	0°29	26°27	29°11	16°26	15°53	27°13	2°30
M21	8 3 19	1°37'00	13° 7	11°54	21°59	16°34	1°28	14°10	0°32	26°30	29°10	16°15	15°49	27°19	2°34
T 22	8 7 16	2°37'58	25°16	13°19	23°11	17°19	1°28	14°17	0°35	26°32	29° 9	16° 7	15°46	27°26	2°37
W23	8 11 12	3°38'56	7♁36	14°46	24°23	18° 5	1°27	14°24	0°38	26°34	29° 8	16° 1	15°43	27°33	2°41
T 24	8 15 9	4°39'53	20°10	16°14	25°36	18°51	1°27	14°31	0°42	26°36	29° 7	15°59	15°40	27°40	2°45
F 25	8 19 5	5°40'49	3♁2	17°42	26°48	19°36	1°D27	14°38	0°45	26°39	29° 6	15°D58	15°37	27°46	2°48
S 26	8 23 2	6°41'44	16°15	19°11	28° 0	20°22	1°27	14°45	0°48	26°41	29° 5	15°R58	15°34	27°53	2°52
S 27	8 26 58	7°42'39	29°54	20°41	29°13	21° 8	1°27	14°53	0°51	26°43	29° 4	15°57	15°30	28° 0	2°55
M28	8 30 55	8°43'33	14♁4	0 22°12	0♁25	21°53	1°27	15° 0	0°54	26°45	29° 3	15°55	15°27	28° 6	2°59
T 29	8 34 52	9°44'26	28°34	23°43	1°38	22°39	1°28	15° 7	0°58	26°48	29° 2	15°50	15°24	28°13	3° 3
W30	8 38 48	10°45'19	13♁31	25°15	2°50	23°24	1°29	15°14	1° 1	26°50	29° 1	15°43	15°21	28°20	3° 7
T 31	8 42 45	11°46'10	28♁45	26♁48	4♁3	24♁10	1II30	15°21	1♁4	26♁52	29II0	15♁32	15♁18	28♁27	3♁10

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	23s 0	25s49	2s42	20s39	2n21	17s22	2n29	11s58	0s59	19n58	0s44	18s10	0s56	12s20	0s44	20s41	0n22	18n30	4s59	17n23	16n55	25n51	5s57	5n22
W 2	22 55 27	6 3 44	20 51	2 13	17 39	2 28	11 41	0 58	19 58	0 43	18 8	0 56	12 19	0 44	20 40	0 22	18 30	4 59	17 21	16 54	25 50	5 56	5 22	
T 3	22 49 26	20 4 31	21 3	2 4	17 55	2 26	11 23	0 57	19 57	0 43	18 6	0 56	12 18	0 44	20 40	0 22	18 30	4 59	17 19	16 53	25 49	5 55	5 21	
F 4	22 43 23	36 4 58	21 6	1 55	18 11	2 25	11 6	0 56	19 56	0 43	18 4	0 56	12 17	0 44	20 40	0 22	18 30	4 59	17 16	16 52	25 48	5 55	5 21	
S 5	22 36 19	16 5 4 21	28 1 46	18 27	2 23	10 48	0 56	19 56	0 43	18 2	0 56	12 16	0 44	20 39	0 22	18 30	4 59	17 14	16 51	25 47	5 54	5 21		
S 6	22 29 13	50 4 50	21 41	1 37	18 42	2 21	10 31	0 55	19 55	0 43	18 0	0 56	12 15	0 44	20 39	0 22	18 30	4 59	17 12	16 50	25 46	5 53	5 20	
M 7	22 21 7	48 4 18	21 53	1 28	18 57	2 19	10 13	0 54	19 55	0 42	17 59	0 56	12 14	0 44	20 38	0 22	18 30	4 59	17 10	16 49	25 45	5 52	5 20	
T 8	22 13 1	34 3 31	22 5	1 18	19 11	2 17	9 55	0 53	19 54	0 42	17 57	0 57	12 13	0 44	20 38	0 22	18 30	4 59	17 9	16 48	25 44	5 51	5 20	
W 9	22 5 4	4n32	2 34	22 17	1 9	19 25	2 15	9 37	0 52	19 54	0 42	17 55	0 57	12 12	0 44	20 38	0 22	18 30	4 59	17 9	16 47	25 43	5 51	5 20
T 10	21 56 10	16 1 31	22 27	1 0	19 38	2 13	9 19	0 51	19 53	0 42	17 53	0 57	12 11	0 44	20 37	0 22	18 30	4 59	17 9	16 46	25 42	5 50	5 19	
F 11	21 46 15	25 0 25	22 37	0 51	19 51	2 10	9 1	0 50	19 53	0 41	17 51	0 57	12 10	0 44	20 37	0 22	18 31	4 58	17 9	16 46	25 41	5 49	5 19	
S 12	21 37 19	50 0n41	22 47	0 42	20 3	2 8	8 43	0 50	19 53	0 41	17 49	0 57	12 9	0 44	20 36	0 22	18 31	4 58	17 9	16 45	25 40	5 48	5 19	
S 13	21 26 23	20 1 44	22 55	0 33	20 15	2 6	8 25	0 49	19 52	0 41	17 47	0 57	12 8	0 44	20 36	0 21	18 31	4 58	17 9	16 44	25 39	5 47	5 19	
M14	21 16 25	45 2 41	23 3	0 25	20 26	2 3	8 7	0 48	19 52	0 41	17 45	0 57	12 7	0 44	20 36	0 21	18 31	4 58	17 7	16 43	25 38	5 46	5 18	
T 15	21 5 26	59 3 10	23 10	0 16	20 37	2 1	7 48	0 47	19 52	0 40	17 43	0 57	12 6	0 44	20 35	0 21	18 31	4 58	17 5	16 42	25 37	5 45	5 18	
W16	20 53 26	57 4 31	23 15	0 8	20 47	1 58	7 30	0 46	19 52	0 40	17 41	0 57	12 5	0 44	20 35	0 21	18 31	4 58	17 5	16 41	25 36	5 44	5 18	
T 17	20 41 25	41 4 39	23 20	0s	20 57	1 55	7 12	0 45	19 52	0 40	17 39	0 57	12 4	0 44	20 34	0 21	18 31	4 58	16 59	16 40	25 35	5 43	5 18	
F 18	20 29 23	17 4 56	23 24	0 8	21 6	1 53	6 53	0 45	19 52	0 40	17 37	0 57	12 2	0 44	20 34	0 21	18 31	4 58	16 55	16 39	25 34	5 42	5 18	
S 19	20 17 19	52 5 0	23 26	0 16	21 15	1 50	6 35	0 44	19 51	0 39	17 35	0 57	12 1	0 44	20 33	0 21	18 31	4 58	16 51	16 38	25 33	5 41	5 17	
S 20	20 4 15	38 4 51	23 28	0 24	21 23	1 47	6 16	0 43	19 51	0 39	17 33	0 57	12 0	0 44	20 33	0 21	18 31	4 57	16 47	16 37	25 32	5 40	5 17	
M21	19 50 10	47 4 29	23 28	0 31	21 30	1 44	5 58	0 42	19 52	0 39	17 31	0 57	11 59	0 44	20 33	0 21	18 32	4 57	16 44	16 36	25 31	5 39	5 17	
T 22	19 36 5	27 3 54	23 27	0 38	21 37	1 41	5 39	0 41	19 52	0 39	17 29	0 57	11 58	0 44	20 32	0 21	18 32	4 57	16 41	16 35	25 30	5 38	5 17	
W23	19 22 0s	9 3 8	23 25	0 45	21 43	1 39	5 20	0 40	19 52	0 38	17 27	0 57	11 57	0 44	20 32	0 21	18 32	4 57	16 40	16 35	25 29	5 37	5 16	
T 24	19 8 5	52 2 12	23 21	0 52	21 49	1 36	5 2	0 40	19 52	0 38	17 25	0 57	11 56	0 44	20 31	0 21	18 32	4 57	16 39	16 34	25 28	5 36	5 16	
F 25	18 53 11	29 1 8	23 17	0 58	21 54	1 33	4 43	0 39	19 52	0 38	17 23	0 57	11 55	0 44	20 31	0 21	18 32	4 57	16 39	16 33	25 27	5 35	5 16	
S 26	18 38 16	45 0s 2	23 10	1 5	21 59	1 30	4 24	0 38	19 52	0 38	17 21	0 57	11 53	0 44	20 31	0 21	18 32	4 57	16 39	16 32	25 26	5 33	5 16	
S 27	18 23 21	21 1 13	23 3	1 11	22 2	1 26	4 6	0 37	19 53	0 37	17 19	0 57	11 52	0 44	20 30	0 21	18 32	4 57	16 39	16 31	25 24	5 32	5 16	
M28	18 7 24	53 2 22	22 54	1 16	22 6	1 23	3 47	0 36	19 53	0 37	17 17	0 57	11 51	0 44	20 30	0 21	18 32	4 56	16 38	16 30	25 23	5 31	5 16	
T 29	17 51 26	53 3 24	22 44	1 22	22 8	1 20	3 28	0 35	19 53	0														

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FEBRUARY 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
F 1	8 46 41	12 ⁴⁷ 00	14 ⁴⁸ 5	28 ²² 22	5 ¹⁶ 16	24 ⁵⁵ 55	1 ³¹ 31	15 ²⁹ 29	1 ⁸ 8	26 ⁵⁴ 54	29 ^R 0	15 ^R 21	15 ¹⁵ 15	28 ³³ 33	3 ¹⁴ 14
S 2	8 50 38	13 ⁴⁷ 49	29 ¹⁹ 19	29 ⁵⁷ 57	6 ²⁸ 28	25 ⁴⁰ 40	1 ³³ 33	15 ³⁶ 36	1 ¹¹ 11	26 ⁵⁷ 57	28 ⁵⁹ 59	15 ⁹ 9	15 ¹¹ 11	28 ⁴⁰ 40	3 ¹⁸ 18
S 3	8 54 34	14 ⁴⁸ 36	14 ¹⁷ 17	1 ³² 32	7 ⁴¹ 41	26 ²⁶ 26	1 ³⁴ 34	15 ⁴³ 43	1 ¹⁴ 14	26 ⁵⁹ 59	28 ⁵⁸ 58	14 ⁵⁸ 58	15 ⁸ 8	28 ⁴⁷ 47	3 ²² 22
M 4	8 58 31	15 ⁴⁹ 22	28 ⁴⁹ 49	3 ⁸ 8	8 ⁵⁴ 54	27 ¹¹ 11	1 ³⁶ 36	15 ⁵⁰ 50	1 ¹⁸ 18	27 ¹ 1	28 ⁵⁷ 57	14 ⁵⁰ 50	15 ⁵ 5	28 ⁵³ 53	3 ²⁶ 26
T 5	9 2 27	16 ⁵⁰ 06	12 ¹⁷ 52	4 ⁴⁵ 45	10 ⁷ 7	27 ⁵⁷ 57	1 ³⁸ 38	15 ⁵⁷ 57	1 ²¹ 21	27 ³ 3	28 ⁵⁶ 56	14 ⁴⁵ 45	15 ² 2	29 ⁰ 0	3 ³⁰ 30
W 6	9 6 24	17 ⁵⁰ 48	26 ²⁵ 25	6 ²³ 23	11 ¹⁹ 19	28 ⁴² 42	1 ⁴¹ 41	16 ⁵ 5	1 ²⁴ 24	27 ⁵ 5	28 ⁵⁶ 56	14 ⁴² 42	14 ⁵⁹ 59	29 ⁷ 7	3 ³³ 33
T 7	9 10 21	18 ⁵¹ 29	9 ³⁰ 30	8 ¹ 1	12 ³² 32	29 ²⁷ 27	1 ⁴³ 43	16 ¹² 12	1 ²⁸ 28	27 ⁷ 7	28 ⁵⁵ 55	14 ⁴² 42	14 ⁵⁵ 55	29 ¹⁴ 14	3 ³⁷ 37
F 8	9 14 17	19 ⁵² 09	22 ¹⁰ 10	9 ⁴¹ 41	13 ⁴⁵ 45	0 ¹² 12	1 ⁴⁶ 46	16 ¹⁹ 19	1 ³¹ 31	27 ¹⁰ 10	28 ⁵⁴ 54	14 ⁴² 42	14 ⁵² 52	29 ²⁰ 20	3 ⁴¹ 41
S 9	9 18 14	20 ⁵² 46	4 ³⁰ 30	11 ²¹ 21	14 ⁵⁸ 58	0 ⁵⁷ 57	1 ⁴⁹ 49	16 ²⁶ 26	1 ³⁴ 34	27 ¹² 12	28 ⁵³ 53	14 ⁴¹ 41	14 ⁴⁹ 49	29 ²⁷ 27	3 ⁴⁵ 45
S 10	9 22 10	21 ⁵³ 22	16 ³⁷ 37	13 ² 2	16 ¹¹ 11	1 ⁴³ 43	1 ⁵² 52	16 ³³ 33	1 ³⁸ 38	27 ¹⁴ 14	28 ⁵³ 53	14 ³⁹ 39	14 ⁴⁶ 46	29 ³⁴ 34	3 ⁴⁹ 49
M 11	9 26 7	22 ⁵³ 56	28 ³³ 33	14 ⁴⁴ 44	17 ²⁴ 24	2 ²⁸ 28	1 ⁵⁵ 55	16 ⁴¹ 41	1 ⁴¹ 41	27 ¹⁶ 16	28 ⁵² 52	14 ³⁴ 34	14 ⁴³ 43	29 ⁴⁰ 40	3 ⁵³ 53
T 12	9 30 3	23 ⁵⁴ 29	10 ²⁵ 25	16 ²⁷ 27	18 ³⁷ 37	3 ¹³ 13	1 ⁵⁸ 58	16 ⁴⁸ 48	1 ⁴⁵ 45	27 ¹⁸ 18	28 ⁵² 52	14 ²⁷ 27	14 ⁴⁰ 40	29 ⁴⁷ 47	3 ⁵⁷ 57
W 13	9 34 0	24 ⁵⁴ 59	22 ¹⁶ 16	18 ¹⁰ 10	19 ⁵⁰ 50	3 ⁵⁸ 58	2 ² 2	16 ⁵⁵ 55	1 ⁴⁸ 48	27 ²⁰ 20	28 ⁵¹ 51	14 ¹⁶ 16	14 ³⁶ 36	29 ⁵⁴ 54	4 ¹ 1
T 14	9 37 56	25 ⁵⁵ 28	4 ¹⁷ 17	19 ⁵⁵ 55	21 ³ 3	4 ⁴³ 43	2 ⁶ 6	17 ² 2	1 ⁵² 52	27 ²² 22	28 ⁵⁰ 50	14 ⁴ 4	14 ³³ 33	0 ¹ 1	4 ⁵ 5
F 15	9 41 53	26 ⁵⁵ 55	16 ² 2	21 ⁴⁰ 40	22 ¹⁶ 16	5 ²⁸ 28	2 ¹⁰ 10	17 ⁹ 9	1 ⁵⁵ 55	27 ²⁴ 24	28 ⁵⁰ 50	13 ⁵⁰ 50	14 ³⁰ 30	0 ⁷ 7	4 ⁹ 9
S 16	9 45 50	27 ⁵⁶ 21	28 ² 2	23 ²⁷ 27	23 ²⁹ 29	6 ¹² 12	2 ¹⁴ 14	17 ¹⁶ 16	1 ⁵⁹ 59	27 ²⁶ 26	28 ⁴⁹ 49	13 ³⁵ 35	14 ²⁷ 27	0 ¹⁴ 14	4 ¹³ 13
S 17	9 49 46	28 ⁵⁶ 45	10 ¹⁸ 18	25 ¹⁴ 14	24 ⁴² 42	6 ⁵⁷ 57	2 ¹⁸ 18	17 ²³ 23	2 ² 2	27 ²⁸ 28	28 ⁴⁹ 49	13 ²² 22	14 ²⁴ 24	0 ²¹ 21	4 ¹⁷ 17
M 18	9 53 43	29 ⁵⁷ 07	22 ²¹ 21	27 ³ 3	25 ⁵⁵ 55	7 ⁴² 42	2 ²³ 23	17 ³¹ 31	2 ⁵ 5	27 ³⁰ 30	28 ⁴⁸ 48	13 ¹¹ 11	14 ²⁰ 20	0 ²⁸ 28	4 ²⁰ 20
T 19	9 57 39	0 ⁵⁷ 27	4 ²⁴ 24	28 ⁵² 52	27 ⁹ 9	8 ²⁷ 27	2 ²⁷ 27	17 ³⁸ 38	2 ⁹ 9	27 ³² 32	28 ⁴⁸ 48	13 ² 2	14 ¹⁷ 17	0 ³⁴ 34	4 ²⁴ 24
W 20	10 1 36	1 ⁵⁷ 46	17 ¹² 12	0 ⁴² 42	28 ²² 22	9 ¹² 12	2 ³² 32	17 ⁴⁵ 45	2 ¹² 12	27 ³⁴ 34	28 ⁴⁷ 47	12 ⁵⁶ 56	14 ¹⁴ 14	0 ⁴¹ 41	4 ²⁸ 28
T 21	10 5 32	2 ⁵⁸ 04	29 ⁵³ 53	2 ³⁴ 34	29 ³⁵ 35	9 ⁵⁶ 56	2 ³⁷ 37	17 ⁵² 52	2 ¹⁶ 16	27 ³⁶ 36	28 ⁴⁷ 47	12 ⁵⁴ 54	14 ¹¹ 11	0 ⁴⁸ 48	4 ³² 32
F 22	10 9 29	3 ⁵⁸ 20	12 ¹⁴ 14	4 ²⁶ 26	0 ⁴⁸ 48	10 ⁴¹ 41	2 ⁴³ 43	17 ⁵⁹ 59	2 ¹⁹ 19	27 ³⁸ 38	28 ⁴⁶ 46	12 ^D 53	14 ⁸ 8	0 ⁵⁴ 54	4 ³⁶ 36
S 23	10 13 25	4 ⁵⁸ 34	26 ² 2	6 ¹⁹ 19	2 ¹ 1	11 ²⁶ 26	2 ⁴⁸ 48	18 ⁶ 6	2 ²³ 23	27 ⁴⁰ 40	28 ⁴⁶ 46	12 ⁵³ 53	14 ⁵ 5	1 ¹ 1	4 ⁴⁰ 40
S 24	10 17 22	5 ⁵⁸ 47	9 ³⁵ 35	8 ¹² 12	3 ¹⁵ 15	12 ¹⁰ 10	2 ⁵⁴ 54	18 ¹³ 13	2 ²⁶ 26	27 ⁴² 42	28 ⁴⁵ 45	12 ^R 53	14 ¹ 1	1 ⁸ 8	4 ⁴⁴ 44
M 25	10 21 19	6 ⁵⁸ 59	23 ³⁰ 30	10 ⁷ 7	4 ²⁸ 28	12 ⁵⁵ 55	2 ⁵⁹ 59	18 ²⁰ 20	2 ³⁰ 30	27 ⁴⁴ 44	28 ⁴⁵ 45	12 ⁵² 52	13 ⁵⁸ 58	1 ¹⁵ 15	4 ⁴⁸ 48
T 26	10 25 15	7 ⁵⁹ 09	7 ³⁷ 37	12 ² 2	5 ⁴¹ 41	13 ³⁹ 39	3 ⁵ 5	18 ²⁷ 27	2 ³³ 33	27 ⁴⁶ 46	28 ⁴⁵ 45	12 ⁴⁹ 49	13 ⁵⁵ 55	1 ²¹ 21	4 ⁵² 52
W 27	10 29 12	8 ⁵⁹ 18	22 ²⁶ 26	13 ⁵⁸ 58	6 ⁵⁵ 55	14 ²⁴ 24	3 ¹¹ 11	18 ³⁴ 34	2 ³⁶ 36	27 ⁴⁸ 48	28 ⁴⁴ 44	12 ⁴³ 43	13 ⁵² 52	1 ²⁸ 28	4 ⁵⁶ 56
T 28	10 33 8	9 ⁵⁹ 25	7 ³⁰ 30	15 ⁴⁵ 45	8 ⁸ 8	15 ¹⁸ 18	3 ¹⁸ 18	18 ⁴¹ 41	2 ⁴⁰ 40	27 ⁵⁰ 50	28 ⁴⁴ 44	12 ³⁵ 35	13 ⁴⁹ 49	1 ³⁵ 35	4 ⁶⁰ 60

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
F 1	17s 0	21s25	5s 0	22s 6	1s36	22s12	1n11	2s32	0s33	19n55	0s36	17s 9	0s58	11s46	0s44	20s28	0n21	18n33	4s56	16n28	16n26	25n19	5s26	5n15
S 2	16 43	16 16	4 51	21 50	1 41	22 12	1 7	2 13	0 32	19 55	0 36	17 7	0 58	11 45	0 44	20 28	0 21	18 33	4 56	16 25	16 25	25 18	5 25	5 15
S 3	16 25	10 13	4 22	21 34	1 45	22 12	1 4	1 54	0 31	19 56	0 36	17 4	0 58	11 44	0 44	20 27	0 21	18 33	4 56	16 22	16 24	25 16	5 24	5 15
M 4	16 7	3 47	3 37	21 15	1 49	22 10	1 1	1 35	0 31	19 56	0 36	17 2	0 58	11 43	0 44	20 27	0 21	18 33	4 56	16 19	16 23	25 15	5 23	5 14
T 5	15 49	2n39	2 39	20 55	1 52	22 8	0 58	1 16	0 30	19 57	0 35	17 0	0 58	11 42	0 44	20 26	0 21	18 33	4 55	16 18	16 23	25 14	5 21	5 14
W 6	15 31	8 44	1 35	20 34	1 55	22 6	0 54	0 58	0 29	19 58	0 35	16 58	0 58	11 40	0 43	20 26	0 21	18 34	4 55	16 17	16 22	25 13	5 20	5 14
T 7	15 12	14 15	0 27	20 11	1 58	22 3	0 51	0 39	0 28	19 58	0 35	16 56	0 58	11 39	0 43	20 26	0 21	18 34	4 55	16 17	16 21	25 12	5 19	5 14
F 8	14 53	18 59	0n39	19 47	2 0	21 59	0 48	0 20	0 27	19 59	0 35	16 54	0 58	11 38	0 43	20 25	0 21	18 34	4 55	16 17	16 20	25 10	5 18	5 14
S 9	14 34	22 46	1 43	19 22	2 2	21 54	0 44	0 1	0 26	20 0	0 34	16 52	0 58	11 37	0 43	20 25	0 21	18 34	4 55	16 16	16 19	25 9	5 16	5 14
S 10	14 14	25 28	2 40	18 54	2 3	21 49	0 41	0n17	0 26	20 1	0 34	16 50	0 58	11 35	0 43	20 24	0 21	18 34	4 55	16 16	16 18	25 8	5 15	5 14
M 11	13 55	26 58	3 29	18 26	2 5	21 43	0 38	0 36	0 25	20 2	0 34	16 48	0 58	11 34	0 43	20 24	0 21	18 34	4 55	16 14	16 17	25 7	5 14	5 14
T 12	13 35	27 13	4 9	17 56	2 5	21 37	0 35	0 55	0 24	20 3	0 34	16 46	0 58	11 33	0 43	20 23	0 21	18 34	4 54	16 12	16 16	25 5	5 13	5 13
W 13	13 14	26 13	4 38	17 24	2 6	21 30	0 31	1 13	0 23	20 4	0 34	16 43	0 58	11 32	0 43	20 23	0 21	18 34	4 54	16 9	16 15	25 4	5 11	5 13
T 14	12 54	24 2	4 55	16 51	2 6	21 22	0 28	1 32	0 22	20 5	0 33	16 41	0 59	11 31	0 43	20 23	0 21	18 35	4 54	16 5	16 14	25 3	5 10	5 13
F 15	12 33	20 49	5 0	16 17	2 5	21 14	0 25	1 50	0 22	20 6	0 33	16 39	0 59	11 29	0 43	20 22	0 21	18 35	4 54	16 1	16 13	25 2	5 9	5 13
S 16	12 13	16 43	4 51	15 41	2 4	21 5	0 21	2 9	0 21	20 7	0 33	16 37	0 59	11 28	0 43	20 22	0 21	18 35						

SWISS EPHEMERIS for the year 1669

MARCH 1669 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁
F 1	10 37 5	10♌59'30	22♋22	17♌50	9♋21	15♌52	3♌24	18♋47	2♌43	27♋51	28♌44	12♌26	13♌46	1♌41	5♌4
S 2	10 41 1	11°59'33	7♌24	19°47	10°35	16°37	3°30	18°54	2°47	27°53	28♌44	12♌16	13°42	1°48	5°8
S 3	10 44 58	12°59'35	22°14	21°43	11°48	17°21	3°37	19°1	2°50	27°55	28°43	12°7	13°39	1°55	5°12
M 4	10 48 54	13°59'34	6♌46	23°39	13°2	18°5	3°44	19°8	2°54	27°56	28°43	12°0	13°36	2°2	5°16
T 5	10 52 51	14°59'32	20°52	25°34	14°15	18°49	3°51	19°15	2°57	27°58	28°43	11°56	13°33	2°8	5°20
W 6	10 56 48	15°59'27	4♌31	27°28	15°29	19°34	3°58	19°21	3°0	28°0	28°43	11°54	13°30	2°15	5°24
T 7	11 0 44	16°59'20	17°42	29°21	16°42	20°18	4°5	19°28	3°4	28°1	28°43	11°D54	13°26	2°22	5°28
F 8	11 4 41	17°59'11	0♌28	1♌12	17°55	21°2	4°13	19°35	3°7	28°3	28°43	11°55	13°23	2°28	5°32
S 9	11 8 37	18°59'00	12°53	3°1	19°9	21°46	4°21	19°41	3°10	28°5	28°43	11°56	13°20	2°35	5°36
S 10	11 12 34	19°58'46	25°2	4°47	20°22	22°30	4°28	19°48	3°14	28°6	28°42	11°R56	13°17	2°42	5°39
M11	11 16 30	20°58'31	7♌1	6°31	21°36	23°14	4°36	19°54	3°17	28°8	28°42	11°54	13°14	2°49	5°43
T 12	11 20 27	21°58'13	18°53	8°10	22°49	23°57	4°44	20°1	3°20	28°9	28°D42	11°50	13°11	2°55	5°47
W13	11 24 23	22°57'52	0♌44	9°46	24°3	24°41	4°52	20°7	3°24	28°11	28°42	11°45	13°7	3°2	5°51
T 14	11 28 20	23°57'30	12°37	11°16	25°16	25°25	5°1	20°14	3°27	28°12	28°42	11°37	13°4	3°9	5°55
F 15	11 32 17	24°57'05	24°36	12°42	26°30	26°9	5°9	20°20	3°30	28°14	28°43	11°28	13°1	3°16	5°59
S 16	11 36 13	25°56'38	6♌43	14°3	27°43	26°53	5°18	20°27	3°34	28°15	28°43	11°19	12°58	3°22	6°2
S 17	11 40 10	26°56'09	18°58	15°17	28°57	27°36	5°26	20°33	3°37	28°17	28°43	11°11	12°55	3°29	6°6
M18	11 44 6	27°55'38	1♌25	16°26	0♌10	28°20	5°35	20°39	3°40	28°18	28°43	11°4	12°52	3°36	6°10
T 19	11 48 3	28°55'04	14°1	17°28	1°24	29°3	5°44	20°45	3°43	28°19	28°43	10°59	12°48	3°42	6°14
W20	11 51 59	29°54'29	26°50	18°23	2°37	29°47	5°53	20°51	3°46	28°21	28°43	10°56	12°45	3°49	6°17
T 21	11 55 56	0♌53'52	9♌49	19°11	3°51	0♌30	6°2	20°58	3°50	28°22	28°43	10°D55	12°42	3°56	6°21
F 22	11 59 52	1°53'13	23°2	19°52	5°4	1°14	6°12	21°4	3°53	28°23	28°44	10°56	12°39	4°3	6°25
S 23	12 3 49	2°52'32	6♌27	20°25	6°18	1°57	6°21	21°10	3°56	28°25	28°44	10°57	12°36	4°9	6°28
S 24	12 7 46	3°51'50	20°6	20°51	7°31	2°40	6°30	21°16	3°59	28°26	28°44	10°58	12°32	4°16	6°32
M25	12 11 42	4°51'06	4♌0	21°9	8°45	3°24	6°40	21°22	4°2	28°27	28°44	10°R59	12°29	4°23	6°36
T 26	12 15 39	5°50'20	18°8	21°20	9°58	4°7	6°50	21°27	4°5	28°28	28°45	10°58	12°26	4°29	6°39
W27	12 19 35	6°49'32	2♌29	21°R24	11°12	4°50	7°0	21°33	4°8	28°29	28°45	10°56	12°23	4°36	6°43
T 28	12 23 32	7°48'42	17°0	21°21	12°25	5°33	7°10	21°39	4°11	28°30	28°45	10°53	12°20	4°43	6°46
F 29	12 27 28	8°47'51	1♌36	21°11	13°39	6°16	7°20	21°45	4°14	28°31	28°46	10°48	12°17	4°50	6°50
S 30	12 31 25	9°46'58	16°11	20°54	14°53	6°59	7°30	21°50	4°17	28°32	28°46	10°44	12°13	4°56	6°53
S 31	12 35 21	10°46'02	0♌39	20°Y31	16♌6	7♌42	7♌40	21°56	4♌20	28♌33	28♌46	10♌39	12♌10	5♌3	6♌57

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	7s27	18s47	4s59	5s49	1s5	18s15	0s19	6n5	0s11	20n23	0s30	16s10	1s0	11s12	0s43	20s17	0n21	18n37	4s52	15n36	16n0	24n43	4s49	5n12
S 2	7 5 13	4 4 35	4 5 5	0 56	17 58	0 22	6 23	0 10	20 26	0 30	16 8	1 0	11 11	0 43	20 17	0 21	18 37	4 52	15 33	15 59	24 42	4 48	5 12	
S 3	6 42	6 39	3 53	4 1	0 47	17 40	0 25	6 41	0 9	20 24	0 30	16 6	1 0	11 9	0 43	20 16	0 21	18 37	4 51	15 30	15 58	24 41	4 46	5 12
M 4	6 19	0 0	2 56	3 6	0 37	17 22	0 27	6 58	0 9	20 27	0 30	16 4	1 0	11 8	0 43	20 16	0 21	18 37	4 51	15 28	15 57	24 39	4 45	5 12
T 5	5 55	6n28	1 50	2 11	0 27	17 4	0 30	7 16	0 8	20 29	0 29	16 2	1 0	11 7	0 44	20 16	0 21	18 38	4 51	15 27	15 56	24 38	4 44	5 12
W 6	5 32	12 26	0 39	1 15	0 16	16 45	0 33	7 33	0 7	20 30	0 29	16 0	1 0	11 6	0 44	20 15	0 21	18 38	4 51	15 26	15 55	24 36	4 42	5 12
T 7	5 9	17 38	0n31	0 20	0 5	16 26	0 36	7 51	0 6	20 32	0 29	15 58	1 1	11 5	0 44	20 15	0 21	18 38	4 51	15 26	15 54	24 35	4 41	5 12
F 8	4 45	21 53	1 38	0n35	0n7	16 6	0 38	8 8	0 6	20 33	0 29	15 56	1 1	11 3	0 44	20 15	0 21	18 38	4 51	15 26	15 53	24 34	4 39	5 12
S 9	4 22	25 0	2 38	1 30	0 19	15 45	0 41	8 25	0 5	20 35	0 29	15 54	1 1	11 2	0 44	20 14	0 21	18 38	4 50	15 27	15 52	24 32	4 38	5 12
S 10	3 59	26 54	3 30	2 23	0 31	15 25	0 43	8 42	0 4	20 37	0 28	15 52	1 1	11 1	0 44	20 14	0 21	18 38	4 50	15 27	15 51	24 31	4 37	5 12
M11	3 35	27 30	4 12	3 16	0 44	15 3	0 46	8 59	0 3	20 38	0 28	15 50	1 1	11 0	0 44	20 14	0 21	18 39	4 50	15 26	15 50	24 29	4 35	5 12
T 12	3 11	26 49	4 43	4 7	0 57	14 42	0 48	9 16	0 3	20 40	0 28	15 48	1 1	10 59	0 44	20 13	0 21	18 39	4 50	15 25	15 49	24 28	4 34	5 12
W13	2 48	24 56	5 1	4 57	1 10	14 20	0 51	9 33	0 2	20 42	0 28	15 46	1 1	10 57	0 44	20 13	0 21	18 39	4 50	15 23	15 48	24 26	4 32	5 12
T 14	2 24	21 57	5 7	5 44	1 23	13 57	0 53	9 50	0 1	20 43	0 28	15 44	1 1	10 56	0 44	20 13	0 21	18 39	4 50	15 21	15 47	24 25	4 31	5 13
F 15	2 1	18 2	4 59	6 29	1 35	13 34	0 55	10 6	0 1	20 45	0 27	15 42	1 1	10 55	0 44	20 13	0 21	18 39	4 49	15 18	15 47	24 24	4 29	5 13
S 16	1 37	13 21	4 38	7 12	1 48	13 11	0 57	10 23	0n0	20 47	0 27	15 40	1 2	10 54	0 44	20 12	0 21	18 39	4 49	15 15	15 46	24 22	4 28	5 13
S 17	1 13	8 6	4 3	7 53	2 0	12 48	0 59	10 39	0 1	20 48	0 27	15 39	1 2	10 53	0 44	20 12	0 21	18 40	4 49	15 13	15 45	24 21	4 27	5 13
M18	0 50	2 27	3 17	8 30	2 12	12 24	1 2	10 55	0 2	20 50	0 27	15 37	1 2	10 52	0 44	20 12	0 21	18 40	4 49	15 11	15 44	24 19	4 25	5 13
T 19	0 26	3s23	2 20	9 4	2 23	11 59	1 4	11 12	0 2	20 52	0 27	15 35	1 2	10 50	0 44	20 11	0 21	18 40	4 49	15 9	15 43	24 18	4 24	5 13
W20	0 2	9 11	1 16	9 35	2 33	11 35	1 6	11 28	0 3	20 54	0 27	15 33	1 2	10 49	0 44	20 11	0 21	18 40	4 49	15 8	15 42	24 16	4 22	5 13
T 21	0n21	14 42	0 6	10 2	2 43	11 10	1 7	11 44	0 4	20 55	0 26	15 31	1 2	10 48	0 44	20 11	0 21	18 40	4 48	15 8	15 41	24 15	4 21	5 13
F 22	0 45	19 37	1s5	10 26	2 52	10 45	1 9	11 59	0 4	20 57	0 26	15 29	1 2	10 47	0 44	20 11	0 21	18 40	4 48	15 8	15 40	24 13	4 20	5 13
S 23	1 9	23 38	2 14	10 45	2 59	10 19	1 11	12 15	0 5	20 59	0 26	15 28	1 2	10 46	0 44	20 10	0 21	18 41	4 48	15 8	15 39	24 12	4 18	5 13
S 24	1 32	26 23	3 17	11 1	3 6	9 53	1 13	12 31	0 6	21 1	0 26													

SWISS EPHEMERIS for the year 1669

APRIL 1669 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
M 1	12 39 18	11°45'05	14°45'53	20°R 3	17°K20	8°R25	7°II51	22°≈ 1	4°K23	28°R34	28°II47	10°R36	12°R 7	5°Ω10	7°K 0	
T 2	12 43 14	12°44'06	28°48	19°Y30	18°33	9° 8	8° 1	22° 7	4°26	28°35	28°47	10°R34	12° 4	5°17	7° 4	
W 3	12 47 11	13°43'04	12°R21	18°53	19°47	9°51	8°12	22°12	4°29	28°36	28°48	10°D34	12° 1	5°23	7° 7	
T 4	12 51 8	14°42'01	25°31	18°13	21° 0	10°34	8°22	22°17	4°32	28°37	28°48	10°34	11°57	5°30	7°10	
F 5	12 55 4	15°40'55	8°II19	17°30	22°14	11°17	8°33	22°23	4°34	28°38	28°49	10°36	11°54	5°37	7°14	
S 6	12 59 1	16°39'47	20°48	16°45	23°28	11°59	8°44	22°28	4°37	28°39	28°49	10°37	11°51	5°43	7°17	
S 7	13 2 57	17°38'37	3°R 1	16° 0	24°41	12°42	8°55	22°33	4°40	28°40	28°50	10°39	11°48	5°50	7°20	
M 8	13 6 54	18°37'25	15° 2	15°14	25°55	13°25	9° 6	22°38	4°43	28°40	28°51	10°R40	11°45	5°57	7°23	
T 9	13 10 50	19°36'10	26°57	14°30	27° 8	14° 7	9°17	22°43	4°45	28°41	28°51	10°39	11°42	6° 4	7°26	
W10	13 14 47	20°34'53	8°R49	13°47	28°22	14°50	9°28	22°48	4°48	28°42	28°52	10°38	11°38	6°10	7°30	
T 11	13 18 43	21°33'34	20°45	13° 7	29°35	15°32	9°40	22°53	4°51	28°42	28°53	10°36	11°35	6°17	7°33	
F 12	13 22 40	22°32'12	2°II46	12°30	0°Y49	16°15	9°51	22°58	4°53	28°43	28°53	10°34	11°32	6°24	7°36	
S 13	13 26 37	23°30'48	14°58	11°56	2° 2	16°57	10° 2	23° 2	4°56	28°44	28°54	10°31	11°29	6°30	7°39	
S 14	13 30 33	24°29'23	27°22	11°26	3°16	17°39	10°14	23° 7	4°58	28°44	28°55	10°29	11°26	6°37	7°42	
M15	13 34 30	25°27'55	10°R 1	11° 1	4°29	18°22	10°26	23°12	5° 1	28°45	28°55	10°27	11°23	6°44	7°45	
T 16	13 38 26	26°26'25	22°54	10°41	5°43	19° 4	10°37	23°16	5° 3	28°45	28°56	10°25	11°19	6°51	7°48	
W17	13 42 23	27°24'53	6°II 4	10°25	6°57	19°46	10°49	23°21	5° 6	28°46	28°57	10°D25	11°16	6°57	7°50	
T 18	13 46 19	28°23'19	19° 27	10°14	8°10	20°28	11° 1	23°25	5° 8	28°46	28°58	10°25	11°13	7° 4	7°53	
F 19	13 50 16	29°21'44	3°R 7	10° 9	9°24	21°10	11°13	23°29	5°10	28°46	28°58	10°25	11°10	7°11	7°56	
S 20	13 54 12	0°R20'07	16°52	10°D 8	10°37	21°53	11°25	23°33	5°13	28°47	28°59	10°26	11° 7	7°18	7°59	
S 21	13 58 9	1°18'29	0°R50	10°12	11°51	22°35	11°37	23°38	5°15	28°47	29° 0	10°27	11° 3	7°24	8° 2	
M22	14 2 6	2°16'49	14°56	10°22	13° 4	23°17	11°49	23°42	5°17	28°47	29° 1	10°28	11° 0	7°31	8° 4	
T 23	14 6 2	3°15'07	29° 7	10°35	14°18	23°59	12° 1	23°46	5°20	28°48	29° 2	10°R28	10°57	7°38	8° 7	
W24	14 9 59	4°13'24	13°R21	10°54	15°31	24°40	12°13	23°49	5°22	28°48	29° 3	10°28	10°54	7°44	8°10	
T 25	14 13 55	5°11'39	27°36	11°17	16°45	25°22	12°26	23°53	5°24	28°48	29° 4	10°28	10°51	7°51	8°12	
F 26	14 17 52	6° 9'53	11°K48	11°45	17°58	26° 4	12°38	23°57	5°26	28°48	29° 5	10°27	10°48	7°58	8°15	
S 27	14 21 48	7° 8'05	25°55	12°16	19°12	26°46	12°50	24° 1	5°28	28°48	29° 6	10°27	10°44	8° 5	8°17	
S 28	14 25 45	8° 6'15	9°Y54	12°52	20°25	27°28	13° 3	24° 4	5°30	28°48	29° 7	10°26	10°41	8°11	8°19	
M29	14 29 41	9° 4'25	23°41	13°32	21°39	28° 9	13°16	24° 8	5°32	28°48	29° 8	10°26	10°38	8°18	8°22	
T 30	14 33 38	10°R 2'32	7°R14	14°Y15	22°Y53	28°R51	13°II28	24°≈11	5°K34	28°R48	29°II 9	10°R26	10°R35	8°Ω25	8°K24	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
M 1	4n39	3n47	2s16	10n46	3n 9	6s18	1s24	14n31	0n11	21n15	0s25	15s12	1s 4	10s36	0s44	20s 8
T 2	5 2 10 4	1 4 10 28	3 3 5 50	1 25 14 45	0 12 21 17	0 24 15 10	1 4 10 35	0 44 20 8	0 21 18 42	4 47 15	1 15 29	23 56	4 4 5 14			
W 3	5 25 15 44	0n10	10 6 2 54	5 22 1 26	14 59 0 12 21 19	0 24 15 9	1 4 10 34	0 44 20 8	0 21 18 42	4 46 15	1 15 28	23 55	4 3 5 14			
T 4	5 48 20 29	1 21 9 41	2 45 4 54	1 27 15 13	0 13 21 21	0 24 15 7	1 4 10 33	0 44 20 8	0 21 18 43	4 46 15	1 15 27	23 53	4 2 5 14			
F 5	6 11 24 9	2 27 9 15	2 34 4 26	1 28 15 27	0 14 21 23	0 24 15 6	1 4 10 32	0 44 20 8	0 21 18 43	4 46 15	2 15 26	23 51	4 0 5 14			
S 6	6 34 26 33	3 23 8 46	2 21 3 58	1 29 15 41	0 14 21 25	0 24 15 4	1 4 10 31	0 44 20 8	0 21 18 43	4 46 15	2 15 25	23 50	3 59 5 15			
S 7	6 56 27 36	4 9 8 16	2 8 3 29	1 30 15 55	0 15 21 26	0 24 15 2	1 5 10 30	0 44 20 7	0 21 18 43	4 46 15	3 15 24	23 48	3 58 5 15			
M 8	7 19 27 20	4 44 7 45	1 53 3 1	1 30 16 8	0 15 21 28	0 23 15 1	1 5 10 29	0 44 20 7	0 21 18 43	4 46 15	3 15 23	23 47	3 56 5 15			
T 9	7 41 25 48	5 6 7 14	1 38 2 32	1 31 16 22	0 16 21 30	0 23 14 59	1 5 10 28	0 44 20 7	0 21 18 43	4 45 15	3 15 22	23 45	3 55 5 15			
W10	8 3 23 8	5 14 6 42	1 22 2 3	1 31 16 35	0 17 21 32	0 23 14 58	1 5 10 27	0 44 20 7	0 21 18 44	4 45 15	3 15 21	23 43	3 54 5 15			
T 11	8 25 19 30	5 10 6 11	1 5 1 34	1 32 16 48	0 17 21 34	0 23 14 56	1 5 10 26	0 44 20 7	0 21 18 44	4 45 15	2 15 20	23 42	3 52 5 15			
F 12	8 47 15 2	4 51 5 42	0 49 1 5	1 32 17 1	0 18 21 36	0 23 14 55	1 5 10 25	0 44 20 7	0 21 18 44	4 45 15	1 15 19	23 40	3 51 5 15			
S 13	9 9 9 56	4 20 5 13	0 32 0 36	1 33 17 14	0 19 21 37	0 23 14 54	1 6 10 24	0 44 20 7	0 21 18 44	4 45 15	0 15 18	23 38	3 50 5 16			
S 14	9 30 4 21	3 36 4 46	0 15 0 7	1 33 17 26	0 19 21 39	0 23 14 52	1 6 10 24	0 44 20 6	0 21 18 44	4 45 15	0 15 17	23 37	3 49 5 16			
M15	9 52 1s31	2 40 4 21	0s 1 0n22	1 33 17 39	0 20 21 41	0 22 14 51	1 6 10 23	0 44 20 6	0 21 18 44	4 44 14 59	15 16	23 35	3 47 5 16			
T 16	10 13 7 27	1 35 3 58	0 17 0 51	1 33 17 51	0 20 21 43	0 22 14 50	1 6 10 22	0 44 20 6	0 21 18 44	4 44 14 58	15 15	23 33	3 46 5 16			
W17	10 34 13 11	0 24 3 38	0 33 1 20	1 33 18 3	0 21 21 45	0 22 14 48	1 6 10 21	0 44 20 6	0 21 18 45	4 44 14 58	15 14	23 32	3 45 5 16			
T 18	10 55 18 25	0s50	3 20 0 48	1 49 1 33	18 15 0 22 21 46	0 22 14 47	1 6 10 20	0 44 20 6	0 21 18 45	4 44 14 58	15 13	23 30	3 44 5 16			
F 19	11 16 22 48	2 2 3 4	1 2 2 18	1 33 18 27	0 22 21 48	0 22 14 46	1 7 10 19	0 44 20 6	0 21 18 45	4 44 14 59	15 12	23 28	3 43 5 17			
S 20	11 37 25 57	3 8 2 51	1 16 2 47	1 33 18 38	0 23 21 50	0 22 14 45	1 7 10 18	0 44 20 6	0 21 18 45	4 44 14 59	15 11	23 27	3 41 5 17			
S 21	11 57 27 33	4 4 2 41	1 29 3 16	1 33 18 50	0 23 21 52	0 22 14 43	1 7 10 18	0 44 20 6	0 21 18 45	4 44 14 59	15 10	23 25	3 40 5 17			
M22	12 17 27 23	4 46 2 34	1 41 3 45	1 33 19 1	0 24 21 54	0 21 14 42	1 7 10 17	0 45 20 6	0 21 18 45	4 43 14 59	15 9	23 23	3 39 5 17			
T 23	12 37 25 26	5 10 2 29	1 52 4 14	1 32 19 12	0 24 21 55	0 21 14 41	1 7 10 16	0 45 20 6	0 21 18 46	4 43 14 59	15 8	23 21	3 38 5 17			
W24	12 57 21 53	5 16 2 26	2 3 4 43	1 32 19 23	0 25 21 57	0 21 14 40	1 7 10 15	0 45 20 6	0 21 18 46	4 43 14 59	15 7	23 20	3 37 5 18			
T 25	13 17 17 4	5 3 2 26	2 13 5 11	1 31 19 33	0 26 21 59	0 21 14 39	1 8 10 14	0 45 20 6	0 21 18 46	4 43 14 59	15 6	23 18	3 36 5 18			
F 26	13 36 11 19	4 31 2 29	2 22 5 40	1 31 19 44	0 26 22 1	0 21 14 38	1 8 10 14	0 45 20 6	0 21 18 46	4 43 14 59	15 5	23 16	3 35 5 18			
S 27	13 55 5 1	3 42 2 33	2 30 6 8	1 30 19 54	0 27 22 2	0 21 14 37	1 8 10 13	0 45 20 6	0 21 18 46	4 43 14 59	15 4	23 14	3 33 5 18			
S 28	14 14 1n27	2 41 2 41	2 37 6 37	1 29 20 4	0 27 22 4	0 21 14 36	1 8 10 12	0 45 20 6	0 21 18 46	4 43 14 59	15 3	23 13	3 32 5 18			
M29	14 33 7 48	1 32 2 50	2 44 7 5	1 29 20 14	0 28 22 6	0 21 14 35	1 8 10 12	0 45 20 6	0 21 18 46	4 42 14 59	15 2	23 11	3 31 5 19			
T 30	14n51	13n40	0s18	3n 1 2s50	7n33	1s28	20n24	0n28	22n 7	0s20	14s34	1s 8	10s11	0s45	20s 6	

Julian Day Number = 2330740.5, Delta T = 25.27 sec
 Ecliptic obliquity = 23°29'04, Nutation = - 0°00'12
 Ayanamsha: Fagan/Bradley = 20°07'25, Lahiri = 19°14'25Greg. Calendar

SWISS EPHEMERIS for the year 1669

MAY 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	14 37 35	11♈ 0'38	20♋31	15♃ 2	24♃ 6	29♋32	13♂41	24♁14	5♃36	28°R48	29♂10	10°R26	10♋32	8♌31	8♃26
T 2	14 41 31	11°58'42	3♂30	15°52	25°20	0♂14	13°53	24°18	5°38	28♋48	29°11	10♋26	10°29	8°38	8°29
F 3	14 45 28	12°56'45	16°13	16°45	26°33	0°56	14° 6	24°21	5°39	28°48	29°12	10°26	10°25	8°45	8°31
S 4	14 49 24	13°54'45	28°39	17°42	27°47	1°37	14°19	24°24	5°41	28°48	29°13	10°26	10°22	8°52	8°33
S 5	14 53 21	14°52'44	10♋52	18°42	29° 0	2°18	14°32	24°27	5°43	28°48	29°14	10°25	10°19	8°58	8°35
M 6	14 57 17	15°50'41	22°55	19°45	0♂14	3° 0	14°45	24°30	5°45	28°48	29°15	10°25	10°16	9° 5	8°37
T 7	15 1 14	16°48'37	4♌50	20°50	1°27	3°41	14°58	24°32	5°46	28°48	29°16	10°24	10°13	9°12	8°39
W 8	15 5 10	17°46'30	16°43	21°59	2°41	4°23	15°11	24°35	5°48	28°48	29°17	10°D24	10° 9	9°19	8°41
T 9	15 9 7	18°44'22	28°39	23°10	3°54	5° 4	15°24	24°38	5°49	28°47	29°18	10°24	10° 6	9°25	8°43
F 10	15 13 4	19°42'12	10♎41	24°23	5° 8	5°45	15°37	24°40	5°51	28°47	29°20	10°25	10° 3	9°32	8°45
S 11	15 17 0	20°40'00	22°54	25°40	6°21	6°26	15°50	24°43	5°52	28°47	29°21	10°26	10° 0	9°39	8°46
S 12	15 20 57	21°37'46	5♌22	26°58	7°35	7° 7	16° 3	24°45	5°54	28°46	29°22	10°27	9°57	9°45	8°48
M13	15 24 53	22°35'31	18° 9	28°20	8°48	7°48	16°16	24°47	5°55	28°46	29°23	10°28	9°54	9°52	8°50
T 14	15 28 50	23°33'14	1♌15	29°43	10° 2	8°29	16°29	24°49	5°56	28°46	29°24	10°28	9°50	9°59	8°51
W15	15 32 46	24°30'56	14°42	1♂ 9	11°15	9°10	16°43	24°51	5°58	28°45	29°26	10°R28	9°47	10° 6	8°53
T 16	15 36 43	25°28'37	28°29	2°38	12°29	9°51	16°56	24°53	5°59	28°45	29°27	10°28	9°44	10°12	8°55
F 17	15 40 39	26°26'16	12♌32	4° 9	13°42	10°32	17° 9	24°55	6° 0	28°44	29°28	10°26	9°41	10°19	8°56
S 18	15 44 36	27°23'54	26°49	5°42	14°56	11°13	17°23	24°57	6° 1	28°44	29°29	10°24	9°38	10°26	8°57
S 19	15 48 33	28°21'31	11♋13	7°17	16° 9	11°54	17°36	24°58	6° 2	28°43	29°31	10°22	9°35	10°33	8°59
M20	15 52 29	29°19'07	25°41	8°55	17°23	12°35	17°49	25° 0	6° 3	28°42	29°32	10°20	9°31	10°39	9° 0
T 21	15 56 26	0♂16'42	10♁ 6	10°35	18°36	13°15	18° 3	25° 2	6° 4	28°42	29°33	10°18	9°28	10°46	9° 1
W22	16 0 22	1°14'16	24°24	12°17	19°50	13°56	18°16	25° 3	6° 5	28°41	29°35	10°17	9°25	10°53	9° 3
T 23	16 4 19	2°11'49	8♃34	14° 2	21° 3	14°37	18°30	25° 4	6° 6	28°40	29°36	10°D17	9°22	10°59	9° 4
F 24	16 8 15	3° 9'22	23°32	15°49	22°17	15°18	18°43	25° 5	6° 7	28°40	29°37	10°18	9°19	11° 6	9° 5
S 25	16 12 12	4° 6'53	6♃19	17°38	23°30	15°58	18°57	25° 6	6° 8	28°39	29°39	10°19	9°15	11°13	9° 6
S 26	16 16 8	5° 4'24	19°52	19°30	24°44	16°39	19°10	25° 7	6° 9	28°38	29°40	10°21	9°12	11°20	9° 7
M27	16 20 5	6° 1'53	3♋13	21°24	25°57	17°19	19°24	25° 8	6° 9	28°37	29°41	10°22	9° 9	11°26	9° 8
T 28	16 24 2	6°59'22	16°22	23°19	27°11	18° 0	19°38	25° 9	6°10	28°37	29°43	10°R22	9° 6	11°33	9° 9
W29	16 27 58	7°56'51	29°17	25°18	28°25	18°40	19°51	25°10	6°11	28°36	29°44	10°21	9° 3	11°40	9° 9
T 30	16 31 55	8°54'18	12♂ 0	27°18	29°38	19°21	20° 5	25°10	6°11	28°35	29°45	10°18	9° 0	11°47	9°10
F 31	16 35 51	9♂15'44	24♂30	29♋20	0♂52	20♂ 1	20♂19	25♁11	6♃12	28♋34	29♂47	10♋14	8♌56	11♌53	9♃11

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	15n10	18n48	0n56	3n15	2s55	8n 1	1s27	20n34	0n29	22n 9	0s20	14s33	1s 9	10s10	0s45	20s 6	0n21	18n47	4s42	14n59	15n 0	23n 7	3s29	5n19
T 2	15 27 22	56 2 4	3 30	2 59	8 29	1 26	20 43	0 29	22 11	0 20	14 32	1 9	10 10	0 45	20 6	0 21	18 47	4 42	14 59	14 59	23 6	3 28	5 19	
F 3	15 45 25	51 3 5	3 47	3 2	8 56	1 25	20 52	0 30	22 12	0 20	14 31	1 9	10 9	0 45	20 6	0 21	18 47	4 42	14 59	14 58	23 4	3 27	5 20	
S 4	16 3 27	25 3 56	4 7	3 5	9 24	1 24	21 1	0 30	22 14	0 20	14 30	1 9	10 8	0 45	20 6	0 21	18 47	4 42	14 59	14 57	23 2	3 26	5 20	
S 5	16 20 27	37 4 36	4 27	3 7	9 51	1 23	21 10	0 31	22 16	0 20	14 29	1 9	10 8	0 45	20 6	0 21	18 47	4 42	14 58	14 56	23 0	3 25	5 20	
M 6	16 37 26	30 5 2	4 50	3 8	10 18	1 22	21 19	0 32	22 17	0 20	14 28	1 10	10 7	0 45	20 6	0 21	18 47	4 42	14 58	14 55	22 58	3 24	5 20	
T 7	16 53 24	11 5 15	5 14	3 9	10 45	1 20	21 27	0 32	22 19	0 20	14 28	1 10	10 7	0 45	20 6	0 21	18 47	4 41	14 58	14 54	22 57	3 23	5 20	
W 8	17 10 20	51 5 15	5 39	3 9	11 11	1 19	21 35	0 33	22 20	0 19	14 27	1 10	10 6	0 45	20 6	0 21	18 48	4 41	14 58	14 53	22 55	3 22	5 21	
T 9	17 16 26	40 5 1	6 6	3 8	11 37	1 18	21 44	0 33	22 22	0 19	14 26	1 10	10 6	0 45	20 6	0 21	18 48	4 41	14 58	14 52	22 53	3 21	5 21	
F 10	17 42 11	47 4 34	6 34	3 7	12 3	1 16	21 51	0 34	22 23	0 19	14 26	1 10	10 5	0 45	20 6	0 21	18 48	4 41	14 58	14 51	22 51	3 20	5 21	
S 11	17 57 6	24 3 54	7 4	3 5	12 29	1 15	21 59	0 34	22 25	0 19	14 25	1 10	10 5	0 45	20 6	0 21	18 48	4 41	14 59	14 50	22 49	3 20	5 21	
S 12	18 12 0	39 3 2	7 35	3 2	12 54	1 13	22 7	0 35	22 26	0 19	14 24	1 11	10 4	0 45	20 6	0 21	18 48	4 41	14 59	14 49	22 47	3 19	5 22	
M13	18 27 5	16 2 0	8 7	2 59	13 19	1 12	22 14	0 35	22 28	0 19	14 24	1 11	10 4	0 45	20 6	0 21	18 48	4 41	14 59	14 48	22 46	3 18	5 22	
T 14	18 42 11	8 0 51	8 40	2 55	13 44	1 10	22 21	0 36	22 29	0 19	14 23	1 11	10 3	0 45	20 6	0 21	18 48	4 41	14 59	14 47	22 44	3 17	5 22	
W15	18 56 16	39 0s23	9 14	2 51	14 9	1 9	22 28	0 36	22 31	0 19	14 23	1 11	10 3	0 45	20 6	0 21	18 48	4 40	14 59	14 46	22 42	3 16	5 22	
T 16	19 10 21	27 1 38	9 49	2 46	14 33	1 7	22 34	0 37	22 32	0 18	14 22	1 11	10 2	0 45	20 6	0 21	18 49	4 40	14 59	14 45	22 40	3 15	5 23	
F 17	19 24 25	7 2 48	10 25	2 40	14 57	1 5	22 41	0 37	22 34	0 18	14 22	1 12	10 2	0 45	20 6	0 21	18 49	4 40	14 59	14 44	22 38	3 15	5 23	
S 18	19 37 27	15 3 48	11 1	2 34	15 20	1 4	22 47	0 38	22 35	0 18	14 21	1 12	10 1	0 45	20 7	0 21	18 49	4 40	14 58	14 43	22 36	3 14	5 23	
S 19	19 50 27	35 4 35	11 39	2 28	15 43	1 2	22 53	0 38	22 36	0 18	14 21	1 12	10 1	0 45	20 7	0 21	18 49	4 40	14 57	14 42	22 34	3 13	5 23	
M20	20 3 26	2 5 5	12 17	2 21	16 6	1 0	22 59	0 38	22 38	0 18	14 21	1 12	10 1	0 46	20 7	0 21	18 49	4 40	14 57	14 41	22 32	3 12	5 24	
T 21	20 15 22	48 5 15	12 55	2 13	16 28	0 58	23 5	0 39	22 39	0 18	14 20	1 12	10 0	0 46	20 7	0 21	18 49	4 40	14 56	14 40	22 31	3 12	5 24	
W22	20 27 18	12 5 5	13 34	2 5	16 50	0 56	23 10	0 39	22 40	0 18	14 20	1 13	10 0	0 46	20 7	0 21	18 49	4 40	14 56	14 39	22 29	3 11	5 24	
T 23	20 38 12	39 4 37	14 14	1 57	17 11	0 54	23 15	0 40	22 42	0 18	14 20	1 13	10 0	0 46	20 7	0 21	18 49	4 40	14 56	14 38	22 27	3 10	5 24	
F 24	20 50 6	32 3 53	14 53	1 48	17 32	0 52	23 20	0 40	22 43	0 18	14 20	1 13	10 0	0 46	20 7	0 21	18 49	4 40	14 56	14 37	22 25	3 10	5 25	
S 25	21 1 0	11 2 56	15 33	1 38	17 53	0 50	23 25	0 41	22 44	0 17	14 20	1 13	9 59	0 46	20 7	0 21	18 50	4 39	14 57	14 36	22 23	3 9	5 25	
S 26	21 11 6	n 5 1 50	16 13	1 29	18 13	0 48	23 30	0 41	22 45	0 17	14 19	1 13	9 59	0 46	20 8	0 21	18 50	4 39	14 57	14 35	22 21	3 8	5 25	
M27	21 21 12	0 0 39	16 52	1 19	18 32	0 46	23 34	0 42	22 46	0 17	14 19	1 14	9 59	0 46	20 8	0 21	18 50	4 39	14 57	14 34	22 19	3 8	5 25	
T 28	21 31 17	17 0n33	17 32	1 9	18 51	0 44	23 38	0 42	22 48	0 17	14 19	1 14	9 59	0 46	20 8	0 21	18 50	4 39	14 57	14 33	22 17	3 7	5 26	
W29	21 40 21	41 1 42	18 11	0 58	19 10	0 42	23 42	0 43	22 49	0 17	14 19													

SWISS EPHEMERIS for the year 1669

JUNE 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	16 39 48	10II49'10	6☾49	1II24	2II 5	20II41	20II32	25☾11	6♁12	28°R33	29II48	10°R 9	8☾53	12♁ 0	9♁12
S 2	16 43 44	11°46'34	18°58	3°29	3°19	21°22	20°46	25°12	6°12	28☾32	29°50	10☾ 4	8°50	12° 7	9°12
M 3	16 47 41	12°43'57	0☾58	5°37	4°32	22° 2	21° 0	25°12	6°13	28°31	29°51	9°58	8°47	12°13	9°13
T 4	16 51 38	13°41'20	12°52	7°45	5°46	22°42	21°13	25°R12	6°13	28°30	29°52	9°54	8°44	12°20	9°13
W 5	16 55 34	14°38'41	24°44	9°55	6°59	23°22	21°27	25°12	6°13	28°29	29°54	9°51	8°41	12°27	9°14
T 6	16 59 31	15°36'01	6☾38	12° 6	8°13	24° 3	21°41	25°12	6°14	28°28	29°55	9°49	8°37	12°34	9°14
F 7	17 3 27	16°33'20	18°39	14°17	9°27	24°43	21°54	25°12	6°14	28°27	29°57	9°D48	8°34	12°40	9°14
S 8	17 7 24	17°30'38	0☾50	16°29	10°40	25°23	22° 8	25°11	6°14	28°26	29°58	9°49	8°31	12°47	9°14
S 9	17 11 20	18°27'56	13°18	18°41	11°54	26° 3	22°22	25°11	6°14	28°25	29°59	9°50	8°28	12°54	9°15
M10	17 15 17	19°25'12	26° 5	20°53	13° 7	26°43	22°36	25°10	6°R14	28°23	0☾ 1	9°52	8°25	13° 0	9°15
T 11	17 19 13	20°22'28	9☾17	23° 4	14°21	27°23	22°49	25°10	6°14	28°22	0° 2	9°R53	8°21	13° 7	9°15
W12	17 23 10	21°19'43	22°53	25°15	15°35	28° 3	23° 3	25° 9	6°14	28°21	0° 4	9°52	8°18	13°14	9°R15
T 13	17 27 7	22°16'57	6♁55	27°25	16°48	28°43	23°17	25° 8	6°14	28°20	0° 5	9°49	8°15	13°21	9°15
F 14	17 31 3	23°14'11	21°20	29°34	18° 2	29°23	23°31	25° 7	6°14	28°19	0° 7	9°45	8°12	13°27	9°15
S 15	17 35 0	24°11'24	6☾ 2	1☾41	19°15	0☾ 3	23°44	25° 6	6°13	28°17	0° 8	9°39	8° 9	13°34	9°14
S 16	17 38 56	25° 8'37	20°53	3°47	20°29	0°42	23°58	25° 5	6°13	28°16	0°10	9°32	8° 6	13°41	9°14
M17	17 42 53	26° 5'50	5☾46	5°51	21°43	1°22	24°12	25° 4	6°13	28°15	0°11	9°26	8° 2	13°48	9°14
T 18	17 46 49	27° 3'02	20°31	7°53	22°56	2° 2	24°26	25° 3	6°13	28°13	0°13	9°20	7°59	13°54	9°14
W19	17 50 46	28° 0'14	5♁ 4	9°54	24°10	2°42	24°39	25° 2	6°12	28°12	0°14	9°16	7°56	14° 1	9°13
T 20	17 54 42	28°57'26	19°19	11°53	25°24	3°21	24°53	25° 0	6°12	28°11	0°16	9°14	7°53	14° 8	9°13
F 21	17 58 39	29°54'38	3☾14	13°49	26°37	4° 1	25° 7	24°59	6°11	28° 9	0°17	9°D14	7°50	14°14	9°12
S 22	18 2 36	0☾51'51	16°50	15°44	27°51	4°41	25°21	24°57	6°11	28° 8	0°19	9°15	7°47	14°21	9°12
S 23	18 6 32	1°49'03	0☾ 8	17°37	29° 5	5°20	25°34	24°55	6°10	28° 7	0°20	9°15	7°43	14°28	9°11
M24	18 10 29	2°46'15	13°10	19°27	0☾18	6° 0	25°48	24°53	6° 9	28° 5	0°22	9°R16	7°40	14°35	9°10
T 25	18 14 25	3°43'28	25°58	21°15	1°32	6°39	26° 2	24°52	6° 9	28° 4	0°23	9°14	7°37	14°41	9°10
W26	18 18 22	4°40'40	8II34	23° 2	2°46	7°19	26°15	24°50	6° 8	28° 2	0°25	9°11	7°34	14°48	9° 9
T 27	18 22 18	5°37'53	21° 0	24°46	3°59	7°58	26°29	24°48	6° 7	28° 1	0°26	9° 5	7°31	14°55	9° 8
F 28	18 26 15	6°35'06	3☾17	26°28	5°13	8°38	26°43	24°45	6° 6	27°59	0°27	8°56	7°27	15° 2	9° 7
S 29	18 30 11	7°32'18	15°26	28° 7	6°27	9°17	26°56	24°43	6° 6	27°58	0°29	8°46	7°24	15° 8	9° 6
S 30	18 34 8	8☾29'31	27☾28	29☾45	7☾41	9☾57	27II10	24☾41	6♁ 5	27☾56	0☾30	8☾35	7☾21	15☾15	9♁ 5

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	22n 7	27n39	4n21	20n 3	0s26	20n 3	0s35	23n53	0n44	22n52	0s17	14s19	1s15	9s58	0s46	20s 9	0m21	18n50	4s39	14n53	14n29	22n 9	3s 5	5n27
S 2	22 14	26 56	4 51	20 39	0 15	20 19	0 33	23 56	0 44	22 53	0 17	14 19	1 15	9 58	0 46	20 9	0 21	18 50	4 39	14 52	14 28	22 7	3 5	5 27
M 3	22 22	24 59	5 7	21 13	0 4	20 35	0 30	23 59	0 45	22 54	0 17	14 19	1 15	9 58	0 46	20 9	0 21	18 50	4 39	14 50	14 27	22 5	3 4	5 27
T 4	22 29	21 57	5 11	21 43	0n 7	20 51	0 28	24 2	0 45	22 55	0 16	14 20	1 15	9 58	0 46	20 9	0 21	18 51	4 39	14 49	14 26	22 3	3 4	5 28
W 5	22 36	18 1	5 1	22 16	0 1	21 6	0 26	24 5	0 46	22 56	0 16	14 20	1 15	9 58	0 46	20 10	0 21	18 51	4 38	14 48	14 25	22 1	3 4	5 28
T 6	22 42	13 23	4 38	22 44	0 27	21 20	0 23	24 7	0 46	22 57	0 16	14 20	1 16	9 58	0 46	20 10	0 21	18 51	4 38	14 47	14 24	21 59	3 3	5 28
F 7	22 48	8 13	4 3	23 11	0 37	21 34	0 21	24 9	0 46	22 58	0 16	14 20	1 16	9 58	0 46	20 10	0 21	18 51	4 38	14 47	14 23	21 57	3 3	5 28
S 8	22 54	2 40	3 16	23 35	0 47	21 47	0 19	24 11	0 47	22 59	0 16	14 20	1 16	9 57	0 46	20 10	0 21	18 51	4 38	14 47	14 22	21 55	3 2	5 29
S 9	22 59	3s 7	2 19	23 56	0 56	21 59	0 16	24 13	0 47	23 0	0 16	14 21	1 16	9 58	0 46	20 10	0 21	18 51	4 38	14 47	14 21	21 53	3 2	5 29
M10	23 4	8 56	1 14	24 15	1 5	22 11	0 14	24 14	0 48	23 1	0 16	14 21	1 16	9 58	0 46	20 11	0 21	18 51	4 38	14 48	14 20	21 51	3 2	5 29
T 11	23 8	14 34	0 3	24 31	1 13	22 22	0 12	24 16	0 48	23 2	0 16	14 22	1 17	9 58	0 46	20 11	0 21	18 51	4 38	14 48	14 19	21 49	3 2	5 29
W12	23 12	19 39	1s10	24 44	1 20	22 33	0 9	24 17	0 48	23 2	0 16	14 22	1 17	9 58	0 46	20 11	0 21	18 51	4 38	14 48	14 18	21 47	3 1	5 30
T 13	23 16	23 49	2 21	24 55	1 27	22 43	0 7	24 17	0 49	23 3	0 16	14 22	1 17	9 58	0 46	20 11	0 21	18 51	4 38	14 47	14 17	21 45	3 1	5 30
F 14	23 19	26 37	3 25	25 2	1 33	22 52	0 4	24 18	0 49	23 4	0 15	14 23	1 17	9 58	0 46	20 12	0 21	18 51	4 38	14 46	14 16	21 43	3 1	5 30
S 15	23 21	27 37	4 17	25 7	1 39	23 1	0 2	24 19	0 50	23 5	0 15	14 23	1 17	9 58	0 47	20 12	0 21	18 51	4 38	14 44	14 15	21 41	3 1	5 31
S 16	23 24	26 40	4 52	25 9	1 44	23 9	0n 0	24 19	0 50	23 6	0 15	14 24	1 18	9 58	0 47	20 12	0 21	18 51	4 38	14 42	14 14	21 39	3 1	5 31
M17	23 26	23 49	5 7	25 9	1 48	23 16	0 3	24 19	0 50	23 6	0 15	14 25	1 18	9 58	0 47	20 12	0 21	18 51	4 38	14 40	14 13	21 37	3 0	5 31
T 18	23 27	19 26	5 2	25 5	1 51	23 23	0 5	24 19	0 51	23 7	0 15	14 25	1 18	9 58	0 47	20 13	0 21	18 51	4 38	14 38	14 12	21 35	3 0	5 31
W19	23 28	13 58	4 37	25 0	1 53	23 29	0 7	24 18	0 51	23 8	0 15	14 26	1 18	9 59	0 47	20 13	0 21	18 52	4 37	14 37	14 11	21 33	3 0	5 32
T 20	23 29	7 51	3 56	24 52	1 55	23 34	0 10	24 18	0 51	23 8	0 15	14 26	1 18	9 59	0 47	20 13	0 21	18 52	4 37	14 36	14 10	21 31	3 0	5 32
F 21	23 29	1 29	3 1	24 41	1 56	23 39	0 12	24 17	0 52	23 9	0 15	14 27	1 18	9 59	0 47	20 14	0 21	18 52	4 37	14 36	14 9	21 29	3 0	5 32
S 22	23 29	4n49	1 58	24 29	1 56	23 43	0 15	24 16	0 52	23 9	0 15	14 28	1 19	9 59	0 47	20 14	0 21	18 52	4 37	14 36	14 8	21 26	3 0	5 32
S 23	23 28	10 47	0 49	24 14	1 56	23 46	0 17	24 15	0 53	23 10	0 15	14 29	1 19	9 59	0 47	20 14	0 21	18 52	4 37	14 36	14 7	21 24	3 0	5 33
M24	23 27	16 9	0n21	23 58	1 55	23 48	0 19	24 14	0 53	23 11	0 14	14 29	1 19	10 0	0 47	20 14	0 21	18 52	4 37	14 36	14 6	21 22	3 0	5 33

SWISS EPHEMERIS for the year 1669

JULY 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	18 38 5	9☉26'44	9☽24	1♂21	8♁54	10♁36	27♂23	24°R38	6°R 4	27°R55	0♁32	8°R24	7♂18	15♂22	9°R 4
T 2	18 42 1	10°23'56	21°16	2°54	10° 8	11°15	27°37	24°R36	6°R 3	27°R53	0°33	8°R14	7°15	15°28	9°R 3
W 3	18 45 58	11°21'08	3♂6	4°25	11°22	11°55	27°50	24°33	6° 2	27°52	0°35	8° 6	7°12	15°35	9° 2
T 4	18 49 54	12°18'21	14°59	5°54	12°36	12°34	28° 4	24°31	6° 1	27°50	0°36	8° 0	7° 8	15°42	9° 1
F 5	18 53 51	13°15'33	26°58	7°21	13°50	13°13	28°17	24°28	5°59	27°49	0°38	7°57	7° 5	15°49	9° 0
S 6	18 57 47	14°12'45	9♁ 7	8°46	15° 3	13°53	28°31	24°25	5°58	27°47	0°39	7°D55	7° 2	15°55	8°58
S 7	19 1 44	15° 9'57	21°31	10° 8	16°17	14°32	28°44	24°22	5°57	27°46	0°41	7°55	6°59	16° 2	8°57
M 8	19 5 40	16° 7'09	4♂15	11°28	17°31	15°11	28°58	24°19	5°56	27°44	0°42	7°R56	6°56	16° 9	8°55
T 9	19 9 37	17° 4'21	17°24	12°46	18°45	15°50	29°11	24°16	5°55	27°42	0°43	7°55	6°53	16°15	8°54
W10	19 13 34	18° 1'34	1♂ 1	14° 1	19°59	16°29	29°24	24°13	5°53	27°41	0°45	7°53	6°49	16°22	8°52
T 11	19 17 30	18°58'46	15° 7	15°14	21°12	17° 8	29°38	24°10	5°52	27°39	0°46	7°49	6°46	16°29	8°51
F 12	19 21 27	19°55'59	29°41	16°24	22°26	17°47	29°51	24° 6	5°50	27°38	0°48	7°43	6°43	16°36	8°49
S 13	19 25 23	20°53'12	14♁36	17°32	23°40	18°26	0♁ 4	24° 3	5°49	27°36	0°49	7°34	6°40	16°42	8°48
S 14	19 29 20	21°50'25	29°46	18°37	24°54	19° 5	0°17	24° 0	5°47	27°34	0°50	7°24	6°37	16°49	8°46
M15	19 33 16	22°47'39	14♁59	19°40	26° 8	19°44	0°31	23°56	5°46	27°33	0°52	7°13	6°33	16°56	8°44
T 16	19 37 13	23°44'54	0♁ 5	20°39	27°22	20°23	0°44	23°53	5°44	27°31	0°53	7° 5	6°30	17° 3	8°42
W17	19 41 10	24°42'09	14°54	21°36	28°36	21° 2	0°57	23°49	5°43	27°30	0°55	6°58	6°27	17° 9	8°41
T 18	19 45 6	25°39'25	29°21	22°29	29°50	21°41	1°10	23°46	5°41	27°28	0°56	6°53	6°24	17°16	8°39
F 19	19 49 3	26°36'42	13♂23	23°19	1♂ 3	22°20	1°23	23°42	5°40	27°26	0°57	6°51	6°21	17°23	8°37
S 20	19 52 59	27°34'00	26°59	24° 6	2°17	22°59	1°36	23°38	5°38	27°25	0°59	6°D51	6°18	17°29	8°35
S 21	19 56 56	28°31'19	10♁11	24°49	3°31	23°38	1°49	23°34	5°36	27°23	1° 0	6°R51	6°14	17°36	8°33
M22	20 0 52	29°28'39	23° 4	25°29	4°45	24°17	2° 2	23°30	5°34	27°21	1° 1	6°50	6°11	17°43	8°31
T 23	20 4 49	0♂26'00	5♂40	26° 5	5°59	24°56	2°15	23°26	5°33	27°20	1° 3	6°48	6° 8	17°50	8°29
W24	20 8 45	1°23'22	18° 4	26°36	7°13	25°34	2°27	23°22	5°31	27°18	1° 4	6°43	6° 5	17°56	8°26
T 25	20 12 42	2°20'45	0♁17	27° 4	8°27	26°13	2°40	23°18	5°29	27°17	1° 5	6°35	6° 2	18° 3	8°24
F 26	20 16 39	3°18'09	12°22	27°27	9°41	26°52	2°53	23°14	5°27	27°15	1° 6	6°24	5°59	18°10	8°22
S 27	20 20 35	4°15'34	24°22	27°46	10°55	27°31	3° 6	23°10	5°25	27°13	1° 8	6°11	5°55	18°16	8°20
S 28	20 24 32	5°12'59	6♂18	28° 0	12° 9	28° 9	3°18	23° 6	5°23	27°12	1° 9	5°57	5°52	18°23	8°18
M29	20 28 28	6°10'26	18°10	28° 9	13°23	28°48	3°31	23° 2	5°21	27°10	1°10	5°43	5°49	18°30	8°15
T 30	20 32 25	7° 7'54	0♂ 1	28°R13	14°37	29°27	3°43	22°58	5°19	27° 8	1°11	5°30	5°46	18°37	8°13
W31	20 36 21	8♂ 5'22	11♂53	28♂12	15♂51	0♂ 5	3♁56	22♁53	5♂17	27♁ 7	1♁13	5♂20	5♂43	18♂43	8♂10

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n 9	22n48	5n 3	21n21	1n30	23n46	0n35	23n59	0n55	23n14	0s14	14s36	1s20	10s 2	0s47
T 2	23 5 19	6 4 56	20 54	1 24 23	43 0 37	23 56	0 56 23	14 0 14	14 37	1 21	10 3	0 47 20	17 0 21	18 52	4 37
W 3	23 0 14	39 4 35	20 27	1 17 23	39 0 39	23 53	0 56 23	14 0 14	14 38	1 21	10 3	0 47 20	17 0 21	18 52	4 37
T 4	22 55 9	39 4 3	19 58	1 10 23	34 0 41	23 49	0 56 23	15 0 14	14 39	1 21	10 3	0 47 20	17 0 21	18 52	4 37
F 5	22 49 4	16 3 20	19 29	1 3 23	29 0 43	23 46	0 57 23	15 0 13	14 40	1 21	10 4	0 47 20	18 0 21	18 52	4 37
S 6	22 43 1s22	2 27	18 59	0 55	23 23	0 45	23 42	0 57 23	15 0 13	14 41	1 21	10 4	0 47 20	18 52	4 37
S 7	22 37 7	4 1 26	18 29	0 47	23 16	0 47	23 38	0 57 23	15 0 13	14 42	1 21	10 5	0 47 20	18 52	4 37
M 8	22 31 12	39 0 20	17 59	0 38	23 9	0 49	23 34	0 58 23	16 0 13	14 43	1 22	10 5	0 47 20	19 0 21	18 52
T 9	22 23 17	52 0s50	17 28	0 29	23 1	0 51	23 30	0 58 23	16 0 13	14 44	1 22	10 6	0 47 20	19 0 21	18 52
W10	22 16 22	21 1 59	16 58	0 19	22 52	0 53	23 26	0 58 23	16 0 13	14 46	1 22	10 6	0 47 20	19 0 21	18 52
T 11	22 8 25	42 3 4	16 27	0 9	22 43	0 55	23 21	0 59 23	16 0 13	14 47	1 22	10 7	0 47 20	20 0 21	18 52
F 12	22 0 27	27 3 58	15 56	0s 1	22 33	0 57	23 16	0 59 23	16 0 13	14 48	1 22	10 7	0 47 20	20 0 21	18 52
S 13	21 51 27	17 4 38	15 25	0 12	22 22	0 59	23 11	0 59 23	16 0 13	14 49	1 22	10 8	0 48 20	20 0 21	18 52
S 14	21 43 25	6 4 58	14 55	0 23	22 11	1 0	23 6	0 59 23	16 0 13	14 51	1 23	10 8	0 48 20	21 0 21	18 52
M15	21 33 21	7 4 58	14 25	0 34	21 59	1 2	23 1	1 0 23	16 0 13	14 52	1 23	10 9	0 48 20	21 0 21	18 52
T 16	21 24 15	47 4 37	13 55	0 46	21 46	1 4	22 55	1 0 23	16 0 13	14 53	1 23	10 10	0 48 20	21 0 21	18 52
W17	21 13 9	37 3 58	13 26	0 57	21 33	1 5	22 50	1 0 23	16 0 12	14 55	1 23	10 10	0 48 20	22 0 21	18 52
T 18	21 3 3 4	3 4 12	57 1 10	21 19	1 7	22 44	1 1	23 16	0 12	14 56	1 23	10 11	0 48 20	22 0 21	18 52
F 19	20 52 3n26	2 1 12	29 1 22	21 4	1 8	22 38	1 1	23 16	0 12	14 57	1 23	10 12	0 48 20	22 0 21	18 52
S 20	20 41 9	36 0 52	12 2	1 34	20 49	1 10	22 32	1 1	23 16	0 12	14 59	1 23	10 12	0 48 20	23 0 21
S 21	20 30 15	11 0n18	11 36	1 47	20 33	1 11	22 25	1 1	23 16	0 12	15 0	1 24	10 13	0 48 20	23 0 21
M22	20 18 19	56 1 25	11 10	2 0	20 17	1 12	22 19	1 2	23 16	0 12	15 2	1 24	10 14	0 48 20	23 0 21
T 23	20 6 23	41 2 26	10 46	2 13	20 0	1 14	22 12	1 2	23 16	0 12	15 3	1 24	10 14	0 48 20	24 0 21
W24	19 53 26	15 3 19	10 23	2 25	19 42	1 15	22 5	1 2	23 16	0 12	15 4	1 24	10 15	0 48 20	24 0 21
T 25	19 40 27	31 4 2	10 2	2 38	19 24	1 16	21 58	1 2	23 16	0 12	15 6	1 24	10 16	0 48 20	24 0 21
F 26	19 27 27	27 4 34	9 42	2 51	19 6	1 17	21 51	1 3	23 15	0 12	15 7	1 24	10 16	0 48 20	25 0 21
S 27	19 14 26	5 4 53	9 24	3 4	18 47	1 18	21 44	1 3	23 15	0 12	15 9	1 24	10 17	0 48 20	25 0 21
S 28	19 0 23	34 4 59	9 7	3 16	18 27	1 19	21 36	1 3	23 15	0 12	15 10	1 25	10 18	0 48 20	25 0 21
M29	18 46 20	2 4 52	8 53	3 28	18 7	1 20	21 29	1 4	23 15	0 11	15 12	1 25	10 19	0 48 20	26 0 21
T 30	18 31 15	44 4 33	8 41	3 40	17 46	1 21	21 21	1 4	23 15	0 11	15 13	1 25	10 19	0 48 20	26 0 21
W31	18n17	10n50	4n 1	8n31	3s51	17n25	1n22	21n13	1n 4	23n14	0s11	15s15	1s25	10s20	0s48

Julian Day Number = 2330831.5, Delta T = 25.03 sec
 Ecliptic obliquity = 23°29'03, Nutation = - 0°00'10
 Ayanamsha: Fagan/Bradley = 20°07'38, Lahiri = 19°14'38Greg. Calendar

SWISS EPHEMERIS for the year 1669

AUGUST 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	20 40 18	9♁ 2'51	23♁47	28°R 6	17♁ 5	0♁44	4♁ 8	22°R49	5°R15	27°R 5	1♁14	5°R12	5♁39	18♁50	8°R 8
F 2	20 44 14	10° 0'21	5♁46	27♁54	18°19	1°22	4°20	22♁45	5♁13	27♁ 4	1°15	5♁ 6	5°36	18°57	8♁ 6
S 3	20 48 11	10°57'52	17°55	27°37	19°33	2° 1	4°33	22°40	5°11	27° 2	1°16	5° 4	5°33	19° 4	8° 3
S 4	20 52 8	11°55'24	0♁.18	27°15	20°47	2°40	4°45	22°36	5° 9	27° 1	1°17	5° 3	5°30	19°10	8° 1
M 5	20 56 4	12°52'57	12°59	26°47	22° 1	3°18	4°57	22°32	5° 7	26°59	1°19	5° 3	5°27	19°17	7°58
T 6	21 0 1	13°50'30	26° 3	26°15	23°16	3°57	5° 9	22°27	5° 4	26°57	1°20	5° 3	5°24	19°24	7°55
W 7	21 3 57	14°48'05	9♁734	25°38	24°30	4°35	5°21	22°23	5° 2	26°56	1°21	5° 1	5°20	19°30	7°53
T 8	21 7 54	15°45'40	23°34	24°57	25°44	5°14	5°33	22°18	5° 0	26°54	1°22	4°57	5°17	19°37	7°50
F 9	21 11 50	16°43'17	8♁ 4	24°12	26°58	5°52	5°45	22°14	4°58	26°53	1°23	4°50	5°14	19°44	7°48
S 10	21 15 47	17°40'54	22°59	23°25	28°12	6°31	5°57	22° 9	4°56	26°51	1°24	4°41	5°11	19°51	7°45
S 11	21 19 43	18°38'33	8♁11	22°35	29°26	7° 9	6° 8	22° 5	4°53	26°50	1°25	4°31	5° 8	19°57	7°42
M12	21 23 40	19°36'13	23°32	21°44	0♁40	7°47	6°20	22° 0	4°51	26°48	1°26	4°21	5° 5	20° 4	7°39
T 13	21 27 37	20°33'54	8♁48	20°52	1°54	8°26	6°32	21°56	4°49	26°47	1°27	4°12	5° 1	20°11	7°37
W14	21 31 33	21°31'37	23°40	20° 2	3° 8	9° 4	6°43	21°51	4°46	26°46	1°28	4° 5	4°58	20°17	7°34
T 15	21 35 30	22°29'21	8♁29	19°13	4°22	9°42	6°55	21°47	4°44	26°44	1°29	4° 0	4°55	20°24	7°31
F 16	21 39 26	23°27'06	22°40	18°27	5°36	10°21	7° 6	21°42	4°42	26°43	1°30	3°58	4°52	20°31	7°28
S 17	21 43 23	24°24'54	6♁23	17°44	6°50	10°59	7°17	21°38	4°39	26°41	1°31	3°D57	4°49	20°38	7°26
S 18	21 47 19	25°22'43	19°39	17° 6	8° 5	11°37	7°28	21°33	4°37	26°40	1°32	3°R58	4°45	20°44	7°23
M19	21 51 16	26°20'34	2♁32	16°34	9°19	12°16	7°40	21°29	4°35	26°39	1°33	3°58	4°42	20°51	7°20
T 20	21 55 12	27°18'27	15° 4	16° 8	10°33	12°54	7°51	21°24	4°32	26°37	1°34	3°56	4°39	20°58	7°17
W21	21 59 9	28°16'22	27°22	15°49	11°47	13°32	8° 2	21°20	4°30	26°36	1°35	3°53	4°36	21° 4	7°14
T 22	22 3 6	29°14'18	9♁29	15°37	13° 1	14°10	8°12	21°15	4°28	26°35	1°36	3°46	4°33	21°11	7°11
F 23	22 7 2	0♁12'16	21°28	15°D33	14°15	14°49	8°23	21°11	4°25	26°33	1°37	3°38	4°30	21°18	7° 8
S 24	22 10 59	1°10'16	3♁22	15°37	15°29	15°27	8°34	21° 6	4°23	26°32	1°38	3°27	4°26	21°25	7° 6
S 25	22 14 55	2° 8'18	15°14	15°50	16°43	16° 5	8°44	21° 2	4°20	26°31	1°39	3°15	4°23	21°31	7° 3
M26	22 18 52	3° 6'21	27° 5	16°11	17°57	16°43	8°55	20°58	4°18	26°30	1°39	3° 4	4°20	21°38	7° 0
T 27	22 22 48	4° 4'26	8♁58	16°40	19°12	17°21	9° 5	20°53	4°16	26°28	1°40	2°53	4°17	21°45	6°57
W28	22 26 45	5° 2'33	20°54	17°17	20°26	17°59	9°16	20°49	4°13	26°27	1°41	2°44	4°14	21°51	6°54
T 29	22 30 41	6° 0'41	2♁53	18° 2	21°40	18°38	9°26	20°45	4°11	26°26	1°42	2°38	4°10	21°58	6°51
F 30	22 34 38	6°58'51	14°59	18°55	22°54	19°16	9°36	20°40	4° 8	26°25	1°42	2°34	4° 7	22° 5	6°48
S 31	22 38 35	7♁57'02	27♁14	19♁55	24♁ 8	19♁54	9♁46	20♁36	4♁ 6	26♁24	1♁43	2°D32	4♁ 4	22♁12	6♁45

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	18n 2	5n31	3n19	8n23	4s 1	17n 3	1n23	21n 5	1n 4	23n14	0s11	15s16	1s25	10s21	0s48	20s27	0n21	18n52	4s37	13n17	13n26	19n58	3s16	5n40
F 2	17 46	0s 2	2 28	8 18	4 11	16 41	1 23	20 56	1 5	23 14	0 11	15 18	1 25	10 22	0 48	20 27	0 21	18 52	4 37	13 15	13 25	19 55	3 17	5 40
S 3	17 31	5 40	1 29	8 15	4 20	16 19	1 24	20 48	1 5	23 13	0 11	15 20	1 25	10 22	0 48	20 27	0 21	18 52	4 37	13 14	13 24	19 53	3 18	5 40
S 4	17 15	11 12	0 25	8 15	4 28	15 55	1 24	20 39	1 5	23 13	0 11	15 21	1 25	10 23	0 48	20 27	0 21	18 52	4 37	13 14	13 23	19 51	3 19	5 40
M 5	16 59	16 26	0s42	8 18	4 35	15 32	1 25	20 31	1 5	23 13	0 11	15 23	1 25	10 24	0 48	20 28	0 21	18 52	4 37	13 14	13 22	19 48	3 20	5 41
T 6	16 42	21 4	1 49	8 23	4 40	15 8	1 25	20 22	1 5	23 12	0 11	15 24	1 26	10 25	0 48	20 28	0 21	18 52	4 37	13 14	13 21	19 46	3 21	5 41
W 7	16 25	24 45	2 52	8 32	4 44	14 44	1 26	20 13	1 6	23 12	0 11	15 26	1 26	10 26	0 48	20 28	0 21	18 52	4 37	13 13	13 20	19 44	3 21	5 41
T 8	16 8	27 6	3 47	8 43	4 47	14 19	1 26	20 4	1 6	23 11	0 11	15 27	1 26	10 27	0 48	20 29	0 21	18 52	4 37	13 12	13 19	19 41	3 22	5 41
F 9	15 51	27 43	4 29	8 57	4 48	13 54	1 26	19 55	1 6	23 11	0 11	15 29	1 26	10 27	0 48	20 29	0 21	18 52	4 37	13 9	13 17	19 39	3 23	5 41
S 10	15 34	26 22	4 55	9 13	4 47	13 29	1 27	19 45	1 6	23 11	0 10	15 30	1 26	10 28	0 48	20 29	0 21	18 52	4 37	13 7	13 16	19 37	3 24	5 41
S 11	15 16	23 5	5 0	9 32	4 44	13 3	1 27	19 36	1 7	23 10	0 10	15 32	1 26	10 29	0 48	20 30	0 21	18 52	4 37	13 3	13 15	19 34	3 25	5 41
M12	14 58	18 10	4 45	9 53	4 39	12 37	1 27	19 26	1 7	23 10	0 10	15 33	1 26	10 30	0 48	20 30	0 21	18 52	4 37	13 0	13 14	19 32	3 26	5 41
T 13	14 40	12 7	4 8	10 15	4 33	12 10	1 27	19 16	1 7	23 9	0 10	15 35	1 26	10 31	0 48	20 30	0 20	18 52	4 37	12 57	13 13	19 29	3 27	5 41
W14	14 21	5 27	3 16	10 39	4 24	11 43	1 27	19 6	1 7	23 9	0 10	15 37	1 26	10 32	0 48	20 31	0 20	18 52	4 37	12 54	13 12	19 27	3 28	5 41
T 15	14 3	1n22	2 11	11 4	4 14	11 16	1 26	18 56	1 7	23 8	0 10	15 38	1 26	10 32	0 48	20 31	0 20	18 52	4 37	12 53	13 11	19 25	3 29	5 41
F 16	13 44	7 55	1 0	11 29	4 2	10 49	1 26	18 46	1 8	23 8	0 10	15 40	1 26	10 33	0 48	20 31	0 20	18 52	4 37	12 52	13 10	19 22	3 30	5 41
S 17	13 25	13 53	0n13	11 55	3 49	10 21	1 26	18 36	1 8	23 7	0 10	15 41	1 26	10 34	0 48	20 31	0 20	18 52	4 37	12 52	13 9	19 20	3 31	5 41
S 18	13 5	19 0	1 22	12 20	3 34	9 53	1 26	18 25	1 8	23 7	0 10	15 43	1 27	10 35	0 48	20 32	0 20	18 52	4 37	12 52	13 8	19 17	3 32	5 41
M19	12 46	23 5	2 26	12 45	3 18	9 25	1 25	18 15	1 8	23 6	0 10	15 44	1 27	10 36	0 48	20 32	0 20	18 52	4 37	12 52	13 7	19 15	3 33	5 41
T 20	12 26	25 58	3 20	13 9	3 1	8 56	1 25	18 4	1 8	23 6	0 10	15 46	1 27	10 37	0 48	20 32	0 20	18 51	4 37	12 51	13 6	19 13	3 34	5 41
W21	12 6	27 32	4 4	13 31	2 44	8 27	1 24	17 53	1 9	23 5	0 10	15 47	1 27	10 38	0 48	20 33	0 20	18 51	4 37	12 50	13 5	19 10	3 35	5 41
T 22	11 46	27 44	4 36	13 52	2 26	7 58	1 24	17 42	1 9	23 4	0 9	15 49	1 27	10 39	0 48	20 33	0 20	18 51	4 37	12 48	13 4	19 8	3 36	5 41
F 23	11 25	26 39	4 56	14 10	2 7	7 29	1 23	17 31	1 9	23 4	0 9	15 50	1 27	10 39	0 48	20 33	0 20	18 51	4 37	12 45	13 3	19 5	3 37	5 41
S 24	11 5	24 21	5 3	14 27	1 49	7 0	1 22	17 20	1 9	23 3	0 9	15 52	1 27	10 40	0 48	20 33	0 20	18 51	4 37	12 41	13 1	19 3	3 38	5 41
S 25	10 44	21 1	4 56	14 41	1 31	6 30	1 21	17 9	1 9	23 3	0 9	15 53	1 27	10 41	0 48	20 34	0 20	18 51	4 37	12 37	13 0	19 0	3 39	5 41
M26	10 23	16 50	4 37	14 52	1 13	6 0	1 20	16 58	1 10	23 2	0 9	15 55	1 27	10 42	0 48	20 34	0 20	18 51	4 37	12 33	12 59	18 58	3 41	5 41
T 27	10 12	1 4	6 15	0 55	5 30	1 20	16 46	1 10	23 1	0 9	15 56	1 27	10 43	0 48	20 34	0 20	18 51	4 37	12 30	12 58	18 55	3 42	5 41	
W28	9 41	6 44	3 23	15 5	0 38	5 0	1 19	16 35	1 10	23 1	0 9	15 57	1 27	10 44	0 48	20 34	0 20	18 51	4 37	12 27	12 57	18 53	3 43	5 41
T 29	9 19	1 10	2 32	15 7	0 21	4 30	1 17	16 23	1 10	23 0														

SWISS EPHEMERIS for the year 1669

SEPTEMBER 1669 GC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	22 42 31	8♍55'15	9♎42	21♌ 2	25♎22	20♏32	9♄56	20°R32	4°R 4	26°R23	1♁44	2♁32	4♁ 1	22♌18	6°R42							
M 2	22 46 28	9°53'30	22°25	22°16	26°36	21°10	10° 5	20°R28	4°R 1	26°R21	1°44	2°33	3°58	22°25	6°R39							
T 3	22 50 24	10°51'46	5♌28	23°36	27°51	21°48	10°15	20°24	3°59	26°20	1°45	2°R34	3°55	22°32	6°R36							
W 4	22 54 21	11°50'03	18°53	25° 1	29° 5	22°26	10°25	20°20	3°57	26°19	1°46	2°34	3°51	22°38	6°R34							
T 5	22 58 17	12°48'22	2♁44	26°30	0♁19	23° 4	10°34	20°16	3°54	26°18	1°46	2°32	3°48	22°45	6°R31							
F 6	23 2 14	13°46'43	17° 2	28° 5	1°33	23°42	10°44	20°12	3°52	26°17	1°47	2°28	3°45	22°52	6°R28							
S 7	23 6 10	14°45'05	1♁43	29°43	2°47	24°20	10°53	20° 8	3°49	26°16	1°48	2°23	3°42	22°59	6°R25							
S 8	23 10 7	15°43'29	16°43	1♎24	4° 1	24°58	11° 2	20° 4	3°47	26°16	1°48	2°16	3°39	23° 5	6°R22							
M 9	23 14 4	16°41'55	1♁53	3° 8	5°15	25°36	11°11	20° 0	3°45	26°15	1°49	2° 9	3°36	23°12	6°R19							
T 10	23 18 0	17°40'22	17° 4	4°54	6°29	26°14	11°20	19°56	3°43	26°14	1°49	2° 3	3°32	23°19	6°R16							
W 11	23 21 57	18°38'51	2♎ 6	6°42	7°43	26°52	11°28	19°53	3°40	26°13	1°50	1°58	3°29	23°25	6°R14							
T 12	23 25 53	19°37'22	16°48	8°31	8°57	27°30	11°37	19°49	3°38	26°12	1°50	1°55	3°26	23°32	6°R11							
F 13	23 29 50	20°35'56	1♁ 7	10°22	10°11	28° 8	11°46	19°46	3°36	26°11	1°50	1°D54	3°23	23°39	6° 8							
S 14	23 33 46	21°34'31	14°57	12°13	11°26	28°46	11°54	19°42	3°33	26°11	1°51	1°55	3°20	23°46	6° 5							
S 15	23 37 43	22°33'09	28°20	14° 4	12°40	29°23	12° 2	19°39	3°31	26°10	1°51	1°56	3°16	23°52	6° 2							
M 16	23 41 39	23°31'49	11♐18	15°56	13°54	0♎ 1	12°10	19°35	3°29	26° 9	1°52	1°58	3°13	23°59	6° 0							
T 17	23 45 36	24°30'31	23°53	17°47	15° 8	0°39	12°18	19°32	3°27	26° 8	1°52	1°R58	3°10	24° 6	5°57							
W 18	23 49 33	25°29'15	6♁12	19°39	16°22	1°17	12°26	19°29	3°25	26° 8	1°52	1°58	3° 7	24°12	5°54							
T 19	23 53 29	26°28'02	18°17	21°30	17°36	1°55	12°34	19°26	3°22	26° 7	1°53	1°56	3° 4	24°19	5°52							
F 20	23 57 26	27°26'51	0♏14	23°20	18°50	2°33	12°41	19°23	3°20	26° 7	1°53	1°52	3° 1	24°26	5°49							
S 21	0 1 22	28°25'42	12° 6	25°10	20° 4	3°11	12°49	19°20	3°18	26° 6	1°53	1°47	2°57	24°33	5°46							
S 22	0 5 19	29°24'36	23°57	26°59	21°18	3°48	12°56	19°17	3°16	26° 6	1°53	1°41	2°54	24°39	5°44							
M 23	0 9 15	0♁23'31	5♎50	28°48	22°32	4°26	13° 3	19°14	3°14	26° 5	1°54	1°35	2°51	24°46	5°41							
T 24	0 13 12	1°22'29	17°47	0♁36	23°46	5° 4	13°10	19°11	3°12	26° 5	1°54	1°30	2°48	24°53	5°39							
W 25	0 17 8	2°21'28	29°50	2°23	25° 0	5°42	13°17	19° 8	3°10	26° 4	1°54	1°26	2°45	24°59	5°36							
T 26	0 21 5	3°20'30	12♁ 0	4° 9	26°14	6°19	13°24	19° 6	3° 8	26° 4	1°54	1°23	2°42	25° 6	5°34							
F 27	0 25 1	4°19'34	24°19	5°54	27°28	6°57	13°30	19° 3	3° 6	26° 3	1°54	1°21	2°38	25°13	5°31							
S 28	0 28 58	5°18'39	6♎48	7°39	28°42	7°35	13°37	19° 1	3° 4	26° 3	1°54	1°D21	2°35	25°20	5°29							
S 29	0 32 55	6°17'47	19°29	9°22	29°56	8°13	13°43	18°58	3° 2	26° 3	1°54	1°22	2°32	25°26	5°26							
M 30	0 36 51	7°16'57	2♁24	11♁ 5	1♎10	8♎50	13♁49	18°56	3♁ 0	26° 3	1°54	1♁23	2♁29	25°33	5♁24							

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	8n14	15s21	0s38	14n53	0n23	2n58	1n14	15n47	1n11	22n58	0s 9	16s 3	1s27	10s47	0s48	20s35	0n20	18n51	4s38	12n23	12n53	18n43	3s47	5n41
M 2	7 52	20 6	1 45	14 41	0 36	2 28	1 13	15 35	1 11	22 58	0 9	16 4	1 27	10 48	0 48	20 35	0 20	18 51	4 38	12 23	12 52	18 41	3 48	5 41
T 3	7 30	24 0	2 48	14 26	0 48	1 57	1 11	15 23	1 11	22 57	0 8	16 6	1 27	10 49	0 48	20 36	0 20	18 51	4 38	12 23	12 51	18 38	3 49	5 41
W 4	7 8	26 43	3 43	14 8	0 59	1 26	1 10	15 11	1 11	22 56	0 8	16 7	1 27	10 50	0 48	20 36	0 20	18 51	4 38	12 23	12 50	18 36	3 51	5 41
T 5	6 46	27 55	4 27	13 47	1 9	0 55	1 8	14 59	1 11	22 56	0 8	16 8	1 27	10 51	0 48	20 36	0 20	18 51	4 38	12 23	12 49	18 33	3 52	5 40
F 6	6 23	27 18	4 57	13 22	1 17	0 24	1 7	14 46	1 11	22 55	0 8	16 10	1 27	10 52	0 48	20 36	0 20	18 51	4 38	12 21	12 47	18 31	3 53	5 40
S 7	6 1	24 49	5 8	12 55	1 25	0s 7	1 5	14 34	1 12	22 54	0 8	16 11	1 27	10 52	0 48	20 36	0 20	18 51	4 38	12 19	12 46	18 28	3 54	5 40
S 8	5 38	20 35	4 58	12 25	1 31	0 38	1 3	14 21	1 12	22 54	0 8	16 12	1 27	10 53	0 48	20 37	0 20	18 50	4 38	12 17	12 45	18 26	3 55	5 40
M 9	5 16	14 59	4 28	11 53	1 37	1 9	1 2	14 8	1 12	22 53	0 8	16 13	1 27	10 54	0 48	20 37	0 20	18 50	4 38	12 15	12 44	18 23	3 56	5 40
T 10	4 53	8 28	3 38	11 18	1 41	1 40	1 0	13 56	1 12	22 52	0 8	16 14	1 27	10 55	0 48	20 37	0 20	18 50	4 38	12 13	12 43	18 20	3 58	5 40
W 11	4 30	1 31	2 34	10 41	1 45	2 11	0 58	13 43	1 12	22 52	0 8	16 16	1 27	10 56	0 48	20 37	0 20	18 50	4 38	12 11	12 42	18 18	3 59	5 40
T 12	4 7	5n22	1 21	10 3	1 47	2 42	0 56	13 30	1 12	22 51	0 8	16 17	1 27	10 57	0 48	20 37	0 20	18 50	4 38	12 10	12 41	18 15	4 0	5 40
F 13	3 44	11 49	0 4	9 23	1 49	3 13	0 54	13 17	1 12	22 50	0 8	16 18	1 27	10 57	0 48	20 38	0 20	18 50	4 38	12 10	12 40	18 13	4 1	5 39
S 14	3 21	17 28	1n10	8 41	1 50	3 44	0 52	13 4	1 13	22 50	0 7	16 19	1 27	10 58	0 48	20 38	0 20	18 50	4 38	12 10	12 39	18 10	4 2	5 39
S 15	2 58	22 5	2 19	7 58	1 50	4 14	0 50	12 51	1 13	22 49	0 7	16 20	1 27	10 59	0 48	20 38	0 20	18 50	4 38	12 10	12 38	18 8	4 3	5 39
M 16	2 34	25 26	3 18	7 14	1 49	4 45	0 48	12 37	1 13	22 48	0 7	16 21	1 27	11 0	0 48	20 38	0 20	18 50	4 38	12 11	12 37	18 5	4 4	5 39
T 17	2 11	27 26	4 5	6 30	1 48	5 16	0 46	12 24	1 13	22 48	0 7	16 22	1 27	11 1	0 48	20 38	0 20	18 50	4 38	12 11	12 36	18 3	4 6	5 39
W 18	1 48	28 0	4 40	5 44	1 46	5 46	0 44	12 11	1 13	22 47	0 7	16 23	1 27	11 1	0 48	20 38	0 20	18 50	4 38	12 11	12 34	18 0	4 7	5 39
T 19	1 24	27 14	5 2	4 58	1 44	6 17	0 42	11 57	1 13	22 46	0 7	16 24	1 27	11 2	0 48	20 38	0 20	18 50	4 38	12 10	12 33	17 57	4 8	5 38
F 20	1 1	25 12	5 11	4 12	1 41	6 47	0 39	11 44	1 13	22 46	0 7	16 25	1 27	11 3	0 48	20 39	0 20	18 50	4 39	12 9	12 32	17 55	4 9	5 38
S 21	0 38	22 5	6 3	3 25	1 38	7 17	0 37	11 30	1 13	22 45	0 7	16 26	1 27	11 4	0 48	20 39	0 20	18 50	4 39	12 7	12 31	17 52	4 10	5 38
S 22	0 14	18 5	4 48	2 38	1 34	7 47	0 35	11 16	1 14	22 45	0 7	16 27	1 27	11 4	0 48	20 39	0 20	18 50	4 39	12 5	12 30	17 50	4 11	5 38
M 23	0s 9	13 23	4 18	1 51	1 30	8 17	0 32	11 3	1 14	22 44	0 7	16 28	1 27	11 5	0 48	20 39	0 20	18 50	4 39	12 3	12 29	17 47	4 12	5 38
T 24	0 33	8 9	3 36	1 4	1 25	8 47	0 30	10 49	1 14	22 43	0 7	16 29	1 27	11 6	0 48	20 39	0 20	18 50	4 39	12 1	12 28	17 45	4 14	5 37
W 25	0 56	2 34	2 44	0 17	1 20	9 16	0 27	10 35	1 14	22 43	0 6	16 29	1 27	11 6	0 48	20 39	0 20	18 49	4 39	12 0	12 27	17 42	4 15	5 37
T 26	1 20	3s 9	1 44	0s30	1 15	9 46	0 25	10 21	1 14	22 42	0 6	16 30	1 27	11 7	0 48	20 39	0 20	18 49	4 39	11 58	12 26	17 39	4 16	5 37
F 27	1 43	8 51	0 39	1 17	1 10	10 15	0 22	10 7	1 14	22 42	0 6	16 31	1 27	11 8	0 48	20 39	0 20	18 49	4 39	11 58	12 25	17 37	4 17	5 37
S 28	2 7	14 17	0s30	2 4	1 4	10 43	0 20	9 53	1 14	22 41	0 6	16 32	1 27	11 9	0 48	20 39	0 20	18 49	4 39	11 58	12 24	17 34	4 18	5 37
S 29	2 30	19 12	1 38	2 50	0 58	11 12	0 17	9 39	1 14	22 41	0 6	16 32												

SWISS EPHEMERIS for the year 1669

OCTOBER 1669 GC

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Day	Sid.t	☉	☽	♀	♂	♄	♃	♅	♁	♂	♆	♇	♈	♉	♊	♋	♌
T 1	0 40 48	8♌16°08	15♌34	12♌47	2♌24	9♍28	13♎55	18°R54	2°R59	26°R 2	1♎54	1♏25	2♏26	25♐40	5°R22		
W 2	0 44 44	9°15'21	29° 2	14°29	3°38	10° 6	14° 1	18♎52	2♎57	26♎ 2	1°R54	1°26	2°22	25°46	5♎19		
T 3	0 48 41	10°14'37	12♌48	16° 9	4°52	10°43	14° 6	18°50	2°55	26° 2	1°54	1°R26	2°19	25°53	5°17		
F 4	0 52 37	11°13'53	26°54	17°49	6° 6	11°21	14°12	18°48	2°53	26° 2	1°54	1°26	2°16	26° 0	5°15		
S 5	0 56 34	12°13'12	11♌17	19°27	7°20	11°59	14°17	18°46	2°52	26° 2	1°54	1°24	2°13	26° 7	5°13		
S 6	1 0 30	13°12'32	25°55	21° 6	8°34	12°36	14°22	18°45	2°50	26° 2	1°54	1°22	2°10	26°13	5°11		
M 7	1 4 27	14°11'54	10♌43	22°43	9°48	13°14	14°27	18°43	2°48	26° 2	1°54	1°20	2° 7	26°20	5° 9		
T 8	1 8 24	15°11'18	25°33	24°20	11° 2	13°52	14°32	18°41	2°47	26°D 2	1°54	1°18	2° 3	26°27	5° 7		
W 9	1 12 20	16°10'44	10♌18	25°56	12°15	14°29	14°36	18°40	2°45	26° 2	1°54	1°16	2° 0	26°33	5° 5		
T 10	1 16 17	17°10'11	24°50	27°31	13°29	15° 7	14°41	18°39	2°44	26° 2	1°54	1°D15	1°57	26°40	5° 3		
F 11	1 20 13	18° 9'41	9♌ 4	29° 5	14°43	15°44	14°45	18°37	2°42	26° 2	1°53	1°15	1°54	26°47	5° 1		
S 12	1 24 10	19° 9'13	22°55	0♌39	15°57	16°22	14°49	18°36	2°41	26° 2	1°53	1°16	1°51	26°54	4°59		
S 13	1 28 6	20° 8'48	6♌22	2°13	17°11	16°59	14°53	18°35	2°39	26° 2	1°53	1°17	1°47	27° 0	4°57		
M14	1 32 3	21° 8'25	19°24	3°45	18°25	17°37	14°57	18°34	2°38	26° 2	1°53	1°18	1°44	27° 7	4°55		
T 15	1 35 59	22° 8'04	2♎ 5	5°18	19°39	18°14	15° 0	18°34	2°37	26° 3	1°52	1°19	1°41	27°14	4°54		
W16	1 39 56	23° 7'45	14°27	6°49	20°52	18°52	15° 4	18°33	2°36	26° 3	1°52	1°19	1°38	27°20	4°52		
T 17	1 43 53	24° 7'28	26°34	8°20	22° 6	19°29	15° 7	18°32	2°34	26° 3	1°52	1°R20	1°35	27°27	4°50		
F 18	1 47 49	25° 7'14	8♌32	9°50	23°20	20° 7	15°10	18°32	2°33	26° 3	1°51	1°19	1°32	27°34	4°49		
S 19	1 51 46	26° 7'02	20°24	11°20	24°34	20°44	15°13	18°31	2°32	26° 4	1°51	1°19	1°28	27°41	4°47		
S 20	1 55 42	27° 6'52	2♍16	12°49	25°48	21°22	15°15	18°31	2°31	26° 4	1°51	1°18	1°25	27°47	4°46		
M21	1 59 39	28° 6'44	14°10	14°18	27° 1	21°59	15°18	18°31	2°30	26° 5	1°50	1°18	1°22	27°54	4°44		
T 22	2 3 35	29° 6'39	26°12	15°46	28°15	22°37	15°20	18°31	2°29	26° 5	1°50	1°17	1°19	28° 1	4°43		
W23	2 7 32	0♌ 6'35	8♌23	17°13	29°29	23°14	15°22	18°D31	2°28	26° 6	1°49	1°17	1°16	28° 7	4°42		
T 24	2 11 28	1° 6'34	20°45	18°40	0♌43	23°52	15°24	18°31	2°27	26° 6	1°49	1°D17	1°13	28°14	4°40		
F 25	2 15 25	2° 6'34	3♌20	20° 6	1°56	24°29	15°25	18°31	2°26	26° 7	1°48	1°R17	1° 9	28°21	4°39		
S 26	2 19 22	3° 6'37	16°10	21°31	3°10	25° 6	15°27	18°31	2°25	26° 7	1°48	1°17	1° 6	28°27	4°38		
S 27	2 23 18	4° 6'41	29°13	22°56	4°24	25°44	15°28	18°32	2°25	26° 8	1°47	1°17	1° 3	28°34	4°37		
M28	2 27 15	5° 6'47	12♌29	24°19	5°37	26°21	15°29	18°32	2°24	26° 9	1°47	1°17	1° 0	28°41	4°36		
T 29	2 31 11	6° 6'55	25°49	25°42	6°51	26°59	15°30	18°33	2°23	26° 9	1°46	1°16	0°57	28°48	4°35		
W30	2 35 8	7° 7'05	9♌40	27° 4	8° 5	27°36	15°31	18°34	2°23	26°10	1°45	1°15	0°53	28°54	4°34		
T 31	2 39 4	8♌ 7'16	23♌33	28♌26	9♌18	28♌13	15♎31	18♎34	2♎22	26♎11	1♎45	1♏15	0♏50	29♐ 1	4♎33		

Day	☉	☽	♀	♂	♄	♃	♅	♁	♂	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	3s17	26s21	3s40	4s22	0n46	12s 9	0n12	9n11	1n15	22n40	0s 6	16s34	1s27	11s10	0s48	20s40	0n20	18n49	4s39	11n59	12n20	17n26	4s21	5n36
W 2	3 41	27 55	4 26	5 7	0 39	12 36	0 9	8 57	1 15	22 39	0 6	16 34	1 27	11 11	0 48	20 40	0 20	18 49	4 39	12 0	12 19	17 24	4 22	5 36
T 3	4 4	27 49	4 59	5 52	0 33	13 4	0 7	8 43	1 15	22 39	0 6	16 35	1 27	11 12	0 48	20 40	0 19	18 49	4 39	12 0	12 18	17 21	4 23	5 35
F 4	4 4	27 57	5 14	6 36	0 26	13 31	0 4	8 28	1 15	22 38	0 6	16 35	1 27	11 12	0 48	20 40	0 19	18 49	4 39	12 0	12 17	17 18	4 24	5 35
S 5	4 50	22 23	5 10	7 20	0 20	13 58	0 1	8 14	1 15	22 38	0 5	16 36	1 27	11 13	0 48	20 40	0 19	18 49	4 39	11 59	12 16	17 16	4 25	5 35
S 6	5 13	17 24	4 47	8 3	0 13	14 25	0s 2	8 0	1 15	22 37	0 5	16 36	1 27	11 13	0 48	20 40	0 19	18 49	4 39	11 58	12 15	17 13	4 26	5 34
M 7	5 37	11 19	4 4	8 46	0 6	14 51	0 4	7 45	1 15	22 37	0 5	16 37	1 26	11 14	0 48	20 40	0 19	18 49	4 39	11 57	12 14	17 10	4 27	5 34
T 8	6 0	4 36	3 5	9 28	0s 1	15 17	0 7	7 31	1 15	22 36	0 5	16 37	1 26	11 15	0 48	20 40	0 19	18 49	4 40	11 57	12 13	17 8	4 28	5 34
W 9	6 23	2n21	1 53	10 9	0 8	15 42	0 10	7 16	1 15	22 36	0 5	16 38	1 26	11 15	0 48	20 40	0 19	18 49	4 40	11 56	12 12	17 5	4 29	5 34
T 10	6 45	9 5	0 35	10 50	0 15	16 7	0 13	7 2	1 15	22 36	0 5	16 38	1 26	11 16	0 48	20 40	0 19	18 49	4 40	11 56	12 10	17 2	4 30	5 33
F 11	7 8	15 13	0n43	11 30	0 22	16 32	0 16	6 47	1 15	22 35	0 5	16 38	1 26	11 16	0 48	20 40	0 19	18 49	4 40	11 56	12 9	17 0	4 31	5 33
S 12	7 31	20 25	1 57	12 10	0 28	16 56	0 18	6 33	1 15	22 35	0 5	16 39	1 26	11 17	0 48	20 40	0 19	18 49	4 40	11 56	12 8	16 57	4 32	5 33
S 13	7 53	24 24	3 2	12 49	0 35	17 20	0 21	6 18	1 15	22 34	0 5	16 39	1 26	11 17	0 48	20 40	0 19	18 49	4 40	11 57	12 7	16 54	4 33	5 32
M14	8 16	26 59	3 56	13 27	0 42	17 43	0 24	6 4	1 16	22 34	0 5	16 39	1 26	11 18	0 48	20 40	0 19	18 48	4 40	11 57	12 6	16 52	4 34	5 32
T 15	8 38	28 5	4 37	14 5	0 49	18 6	0 27	5 49	1 16	22 34	0 4	16 39	1 26	11 18	0 47	20 40	0 19	18 48	4 40	11 57	12 5	16 49	4 35	5 32
W16	9 0	27 43	5 3	14 41	0 56	18 29	0 30	5 34	1 16	22 34	0 4	16 39	1 26	11 18	0 47	20 40	0 19	18 48	4 40	11 57	12 4	16 46	4 36	5 32
T 17	9 22	26 3	5 16	15 17	1 2	18 51	0 32	5 20	1 16	22 33	0 4	16 40	1 26	11 19	0 47	20 40	0 19	18 48	4 40	11 57	12 3	16 43	4 37	5 31
F 18	9 44	23 13	5 14	15 53	1 9	19 13	0 35	5 5	1 16	22 33	0 4	16 40	1 26	11 19	0 47	20 40	0 19	18 48	4 40	11 57	12 2	16 41	4 38	5 31
S 19	10 6	19 27	5 0	16 27	1 15	19 34	0 38	4 50	1 16	22 33	0 4	16 40	1 26	11 20	0 47	20 40	0 19	18 48	4 40	11 57	12 1	16 38	4 38	5 31
S 20	10 28	14 55	4 32	17 1	1 22	19 54	0 41	4 35	1 16	22 33	0 4	16 40	1 26	11 20	0 47	20 40	0 19	18 48	4 40	11 57	11 59	16 35	4 39	5 30
M21	10 49	9 49	3 53	17 33	1 28	20 14	0 44	4 21	1 16	22 33	0 4	16 40	1 26	11 20	0 47	20 40	0 19	18 48	4 40	11 57	11 58	16 33	4 40	5 30
T 22	11 11	4 18	3 3	18 5	1 34	20 34	0 46	4 6	1 16	22 32	0 4	16 40	1 25	11 21	0 47	20 40	0 19	18 48	4 40	11 57	11 57	16 30	4 41	5 30
W23	11 32	1s26	2 4	18 36	1 40	20 53	0 49	3 51	1 16	22 32	0 4	16 40	1 25	11 21	0 47	20 40	0 19	18 48	4 40	11 57	11 56	16 27	4 42	5 29
T 24	11 53	7 13	0 58	19 6	1 46	21 11	0 52	3 36	1 16	22 32	0 3	16 40	1 25	11 21	0 47	20 39	0 19	18 48	4 40	11 57	11 55	16 24	4 42	5 29
F 25	12 14	12 50	0s11	19 35	1 51	21 29	0 55	3 22	1 16	22 32	0 3	16 39	1 25	11 22	0 47	20 39	0 19	18 48	4 40	11 57	11 54	16 22	4 43	5 29
S 26	12 34	18 0	1 22	20 3	1 57	21 46	0 57	3 7	1 16	22 32	0 3	16 39	1 25	11 22	0 47	20 39	0 19	18 48	4 40	11 57	11 53	16 19	4 44	5 28
S 27	12 55	22 26	2 29	20 30	2 2	22 3	1 0	2 52	1 16	22 32	0 3	16 39	1 25	11 22	0 47	20 39	0 19	18 48	4 40	11 57	11 52	16 16	4 45	5 28
M28	13 15	25 47	3 29	20 56	2 7	22 19	1 3	2 37	1 16	22 32	0 3	16 39	1 25	11 22	0 47	20 39	0 19	18 48	4 40	11 56	11 51			

SWISS EPHEMERIS for the year 1669

NOVEMBER 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	2 43 1	9M 7'29	7♁36	29M.46	10♁32	28M.50	15♁31	18♁35	2°R21	26♁12	1°R44	1°D15	0♁47	29M 8	4°R32
S 2	2 46 57	10° 7'43	21°48	1♁ 5	11°46	29°28	15°R31	18°36	2♁21	26°13	1♁43	1♁15	0°44	29°14	4♁31
S 3	2 50 54	11° 7'58	6♁ 5	2°22	12°59	0♁ 5	15°31	18°37	2°20	26°13	1°43	1°15	0°41	29°21	4°31
M 4	2 54 51	12° 8'15	20°26	3°39	14°13	0°42	15°31	18°39	2°20	26°14	1°42	1°16	0°38	29°28	4°30
T 5	2 58 47	13° 8'33	4♁48	4°53	15°26	1°19	15°30	18°40	2°20	26°15	1°41	1°17	0°34	29°35	4°29
W 6	3 2 44	14° 8'53	19° 5	6° 6	16°40	1°57	15°30	18°41	2°20	26°16	1°41	1°18	0°31	29°41	4°29
T 7	3 6 40	15° 9'14	3♁13	7°17	17°53	2°34	15°29	18°43	2°19	26°17	1°40	1°R18	0°28	29°48	4°28
F 8	3 10 37	16° 9'38	17° 9	8°26	19° 7	3°11	15°28	18°45	2°19	26°18	1°39	1°18	0°25	29°55	4°28
S 9	3 14 33	17°10'02	0II49	9°32	20°20	3°48	15°26	18°46	2°19	26°19	1°38	1°16	0°22	0M 1	4°28
S 10	3 18 30	18°10'29	14°10	10°36	21°33	4°25	15°25	18°48	2°19	26°20	1°37	1°14	0°19	0° 8	4°27
M11	3 22 26	19°10'57	27°11	11°36	22°47	5° 3	15°23	18°50	2°D19	26°21	1°37	1°12	0°15	0°15	4°27
T 12	3 26 23	20°11'27	9♁53	12°33	24° 0	5°40	15°21	18°52	2°19	26°23	1°36	1° 9	0°12	0°21	4°27
W13	3 30 20	21°11'59	22°17	13°26	25°14	6°17	15°19	18°54	2°19	26°24	1°35	1° 6	0° 9	0°28	4°27
T 14	3 34 16	22°12'33	4M27	14°14	26°27	6°54	15°17	18°57	2°19	26°25	1°34	1° 4	0° 6	0°35	4°D27
F 15	3 38 13	23°13'08	16°26	14°57	27°40	7°31	15°14	18°59	2°19	26°26	1°33	1° 3	0° 3	0°42	4°27
S 16	3 42 9	24°13'45	28°18	15°35	28°53	8° 8	15°11	19° 1	2°19	26°27	1°32	1°D 3	29M59	0°48	4°27
S 17	3 46 6	25°14'24	10M10	16° 6	0♁ 7	8°45	15° 9	19° 4	2°20	26°29	1°31	1° 4	29°56	0°55	4°27
M18	3 50 2	26°15'05	22° 5	16°29	1°20	9°22	15° 5	19° 6	2°20	26°30	1°30	1° 5	29°53	1° 2	4°27
T 19	3 53 59	27°15'47	4♁ 8	16°45	2°33	9°59	15° 2	19° 9	2°20	26°31	1°29	1° 7	29°50	1° 8	4°28
W20	3 57 55	28°16'30	16°23	16°R52	3°46	10°36	14°59	19°12	2°21	26°33	1°28	1° 9	29°47	1°15	4°28
T 21	4 1 52	29°17'15	28°55	16°50	4°59	11°13	14°55	19°15	2°21	26°34	1°27	1°R 9	29°44	1°22	4°28
F 22	4 5 49	0♁18'02	11M45	16°37	6°12	11°50	14°51	19°18	2°22	26°36	1°26	1° 9	29°40	1°29	4°29
S 23	4 9 45	1°18'50	24°54	16°13	7°26	12°27	14°47	19°21	2°23	26°37	1°25	1° 7	29°37	1°35	4°29
S 24	4 13 42	2°19'40	8♁22	15°39	8°39	13° 4	14°43	19°24	2°23	26°39	1°24	1° 3	29°34	1°42	4°30
M25	4 17 38	3°20'31	22° 6	14°53	9°52	13°41	14°38	19°28	2°24	26°40	1°23	0°59	29°31	1°49	4°30
T 26	4 21 35	4°21'23	6♁ 4	13°58	11° 5	14°18	14°34	19°31	2°25	26°42	1°22	0°53	29°28	1°55	4°31
W27	4 25 31	5°22'15	20°11	12°52	12°17	14°55	14°29	19°34	2°25	26°43	1°21	0°48	29°25	2° 2	4°32
T 28	4 29 28	6°23'09	4♁24	11°39	13°30	15°31	14°24	19°38	2°26	26°45	1°20	0°43	29°21	2° 9	4°32
F 29	4 33 25	7°24'04	18°37	10°20	14°43	16° 8	14°19	19°42	2°27	26°46	1°19	0°40	29°18	2°15	4°33
S 30	4 37 21	8♁24'59	2♁49	8♁58	15♁56	16♁45	14♁14	19♁45	2♁28	26♁48	1♁18	0°D39	29M15	2M22	4♁34

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s34	23s28	5s15	22s29	2s24	23s16	1s13	1n38	1n16	22n32	0s 2	16s38	1s25	11s23	0s47
S 2	14 53	18 57	4 57	22 49	2 28	23 29	1 16	1 23	1 16	22 32	0 2	16 37	1 25	11 23	0 47
S 3	15 12	13 19	4 20	23 8	2 31	23 41	1 18	1 8	1 16	22 33	0 2	16 37	1 25	11 23	0 47
M 4	15 30	6 58	3 27	23 26	2 33	23 53	1 20	0 53	1 16	22 33	0 2	16 36	1 25	11 23	0 47
T 5	15 49	0 15	2 22	23 42	2 36	24 4	1 23	0 38	1 16	22 33	0 2	16 36	1 24	11 23	0 47
W 6	16 7	6n27	1 7	23 57	2 38	24 14	1 25	0 23	1 16	22 33	0 2	16 35	1 24	11 24	0 47
T 7	16 25	12 47	0n11	24 11	2 39	24 23	1 28	0 9	1 16	22 33	0 2	16 35	1 24	11 24	0 47
F 8	16 42	18 22	1 27	24 23	2 40	24 32	1 30	0s 6	1 16	22 34	0 2	16 34	1 24	11 24	0 47
S 9	17 0 22	54 2	2 36	24 33	2 40	24 40	1 32	0 21	1 16	22 34	0 2	16 34	1 24	11 24	0 47
S 10	17 16	26 6	3 35	24 42	2 39	24 47	1 34	0 36	1 16	22 34	0 1	16 33	1 24	11 24	0 47
M11	17 33	27 49	4 21	24 50	2 38	24 53	1 36	0 51	1 16	22 34	0 1	16 32	1 24	11 24	0 47
T 12	17 50	28 0	4 54	24 56	2 36	24 59	1 38	1 5	1 16	22 35	0 1	16 31	1 24	11 24	0 46
W13	18 6	26 45	5 11	25 0	2 33	25 4	1 40	1 20	1 16	22 35	0 1	16 31	1 24	11 23	0 46
T 14	18 21	24 16	5 14	25 2	2 30	25 8	1 42	1 35	1 16	22 36	0 1	16 30	1 24	11 23	0 46
F 15	18 37	20 46	5 4	25 2	2 25	25 12	1 44	1 49	1 16	22 36	0 1	16 29	1 24	11 23	0 46
S 16	18 52	16 27	4 40	25 0	2 19	25 15	1 46	2 4	1 16	22 36	0 1	16 28	1 24	11 23	0 46
S 17	19 7	11 33	4 5	24 57	2 12	25 17	1 48	2 19	1 16	22 37	0 0	16 27	1 24	11 23	0 46
M18	19 21	6 11	3 18	24 51	2 4	25 18	1 49	2 33	1 16	22 37	0 0	16 27	1 23	11 23	0 46
T 19	19 35	0 33	2 23	24 43	1 54	25 19	1 51	2 48	1 16	22 38	0 0	16 26	1 23	11 23	0 46
W20	19 49	5s13	1 20	24 33	1 43	25 18	1 53	3 2	1 16	22 38	0 0	16 25	1 23	11 23	0 46
T 21	20 2	10 55	0 12	24 20	1 31	25 17	1 54	3 17	1 16	22 39	0n 0	16 24	1 23	11 22	0 46
F 22	20 15	16 18	0s58	24 5	1 17	25 16	1 56	3 32	1 16	22 40	0 0	16 23	1 23	11 22	0 46
S 23	20 28	21 4	2 6	23 47	1 1	25 13	1 57	3 46	1 16	22 40	0 0	16 22	1 23	11 22	0 46
S 24	20 40	24 51	3 9	23 26	0 44	25 10	1 58	4 0	1 16	22 41	0 0	16 21	1 23	11 22	0 46
M25	20 52	27 17	4 3	23 3	0 26	25 6	1 59	4 15	1 16	22 41	0 1	16 19	1 23	11 21	0 46
T 26	21 3	28 3	4 42	22 38	0 6	25 1	2 0	4 29	1 16	22 42	0 1	16 18	1 23	11 21	0 46
W27	21 14	27 0	5 6	22 10	0n14	24 56	2 2	4 44	1 15	22 43	0 1	16 17	1 23	11 21	0 46
T 28	21 25	24 13	5 10	21 40	0 34	24 50	2 2	4 58	1 15	22 43	0 1	16 16	1 23	11 20	0 46
F 29	21 35	19 57	4 56	21 9	0 54	24 43	2 3	5 12	1 15	22 44	0 1	16 15	1 23	11 20	0 46
S 30	21s45	14s35	4s23	20s37	1n14	24s35	2s 4	5s26	1n15	22n45	0n 1	16s14	1s23	11s20	0s46

Julian Day Number = 2330954.5, Delta T = 24.69 sec
 Ecliptic obliquity = 23°29'04, Nutation = - 0°00'10
 Ayanamsha: Fagan/Bradley = 20°07'55, Lahiri = 19°14'54 Greg. Calendar

SWISS EPHEMERIS for the year 1669

DECEMBER 1669 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	4 41 18	9 ^h 25'55	16 ^h 58	7 ^h R35	17 ^h 9	17 ^h 22	14 ^h R 8	19 ^h 49	2 ^h 29	26 ^h 50	1 ^h R17	0 ^h 39	29 ^h 12	2 ^h 29	4 ^h 35
M 2	4 45 14	10 ^h 26'52	1 ^h 0	6 ^h 15	18 ^h 21	17 ^h 59	14 ^h 3	19 ^h 53	2 ^h 30	26 ^h 51	1 ^h 16	0 ^h 40	29 ^h 9	2 ^h 36	4 ^h 36
T 3	4 49 11	11 ^h 27'49	14 ^h 57	4 ^h 59	19 ^h 34	18 ^h 35	13 ^h 57	19 ^h 57	2 ^h 31	26 ^h 53	1 ^h 14	0 ^h 41	29 ^h 5	2 ^h 42	4 ^h 37
W 4	4 53 7	12 ^h 28'47	28 ^h 45	3 ^h 51	20 ^h 47	19 ^h 12	13 ^h 51	20 ^h 1	2 ^h 32	26 ^h 55	1 ^h 13	0 ^h R42	29 ^h 2	2 ^h 49	4 ^h 38
T 5	4 57 4	13 ^h 29'46	12 ^h 26	2 ^h 51	21 ^h 59	19 ^h 49	13 ^h 45	20 ^h 5	2 ^h 34	26 ^h 57	1 ^h 12	0 ^h 41	28 ^h 59	2 ^h 56	4 ^h 40
F 6	5 1 0	14 ^h 30'45	25 ^h 56	2 ^h 2	23 ^h 12	20 ^h 25	13 ^h 39	20 ^h 9	2 ^h 35	26 ^h 58	1 ^h 11	0 ^h 39	28 ^h 56	3 ^h 2	4 ^h 41
S 7	5 4 57	15 ^h 31'45	9 ^h 11	1 ^h 24	24 ^h 24	21 ^h 2	13 ^h 33	20 ^h 14	2 ^h 36	27 ^h 0	1 ^h 10	0 ^h 34	28 ^h 53	3 ^h 9	4 ^h 42
S 8	5 8 54	16 ^h 32'46	22 ^h 20	0 ^h 57	25 ^h 37	21 ^h 38	13 ^h 26	20 ^h 18	2 ^h 37	27 ^h 2	1 ^h 9	0 ^h 27	28 ^h 50	3 ^h 16	4 ^h 44
M 9	5 12 50	17 ^h 33'48	5 ^h 11	0 ^h 41	26 ^h 49	22 ^h 15	13 ^h 20	20 ^h 23	2 ^h 39	27 ^h 4	1 ^h 8	0 ^h 18	28 ^h 46	3 ^h 22	4 ^h 45
T 10	5 16 47	18 ^h 34'51	17 ^h 46	0 ^h D36	28 ^h 1	22 ^h 52	13 ^h 13	20 ^h 27	2 ^h 40	27 ^h 6	1 ^h 6	0 ^h 9	28 ^h 43	3 ^h 29	4 ^h 46
W 11	5 20 43	19 ^h 35'55	0 ^h 8	0 ^h 41	29 ^h 13	23 ^h 28	13 ^h 6	20 ^h 32	2 ^h 42	27 ^h 8	1 ^h 5	29 ^h 59	28 ^h 40	3 ^h 36	4 ^h 48
T 12	5 24 40	20 ^h 36'59	12 ^h 16	0 ^h 55	0 ^h 25	24 ^h 5	12 ^h 59	20 ^h 37	2 ^h 43	27 ^h 10	1 ^h 4	29 ^h 52	28 ^h 37	3 ^h 43	4 ^h 50
F 13	5 28 36	21 ^h 38'04	24 ^h 14	1 ^h 18	1 ^h 37	24 ^h 41	12 ^h 52	20 ^h 41	2 ^h 45	27 ^h 12	1 ^h 3	29 ^h 46	28 ^h 34	3 ^h 49	4 ^h 51
S 14	5 32 33	22 ^h 39'10	6 ^h 11	1 ^h 48	2 ^h 49	25 ^h 17	12 ^h 45	20 ^h 46	2 ^h 46	27 ^h 13	1 ^h 2	29 ^h 42	28 ^h 31	3 ^h 56	4 ^h 53
S 15	5 36 29	23 ^h 40'16	17 ^h 56	2 ^h 26	4 ^h 1	25 ^h 54	12 ^h 38	20 ^h 51	2 ^h 48	27 ^h 15	1 ^h 0	29 ^h 40	28 ^h 27	4 ^h 3	4 ^h 55
M 16	5 40 26	24 ^h 41'24	29 ^h 49	3 ^h 9	5 ^h 13	26 ^h 30	12 ^h 30	20 ^h 56	2 ^h 50	27 ^h 17	0 ^h 59	29 ^h D40	28 ^h 24	4 ^h 9	4 ^h 56
T 17	5 44 23	25 ^h 42'32	11 ^h 50	3 ^h 58	6 ^h 25	27 ^h 7	12 ^h 23	21 ^h 1	2 ^h 52	27 ^h 19	0 ^h 58	29 ^h 41	28 ^h 21	4 ^h 16	4 ^h 58
W 18	5 48 19	26 ^h 43'41	24 ^h 6	4 ^h 51	7 ^h 37	27 ^h 43	12 ^h 15	21 ^h 6	2 ^h 53	27 ^h 21	0 ^h 57	29 ^h R42	28 ^h 18	4 ^h 23	5 ^h 0
T 19	5 52 16	27 ^h 44'50	6 ^h 11	5 ^h 49	8 ^h 48	28 ^h 19	12 ^h 8	21 ^h 12	2 ^h 55	27 ^h 23	0 ^h 56	29 ^h R41	28 ^h 15	4 ^h 29	5 ^h 2
F 20	5 56 12	28 ^h 46'00	19 ^h 36	6 ^h 50	10 ^h 0	28 ^h 56	12 ^h 0	21 ^h 17	2 ^h 57	27 ^h 25	0 ^h 54	29 ^h 39	28 ^h 11	4 ^h 36	5 ^h 4
S 21	6 0 9	29 ^h 47'11	2 ^h 56	7 ^h 55	11 ^h 11	29 ^h 32	11 ^h 52	21 ^h 22	2 ^h 59	27 ^h 28	0 ^h 53	29 ^h 35	28 ^h 8	4 ^h 43	5 ^h 6
S 22	6 4 5	0 ^h 38'22	16 ^h 42	9 ^h 3	12 ^h 22	0 ^h 11	11 ^h 45	21 ^h 28	3 ^h 1	27 ^h 30	0 ^h 52	29 ^h 28	28 ^h 5	4 ^h 50	5 ^h 8
M 23	6 8 2	1 ^h 49'34	0 ^h 51	10 ^h 13	13 ^h 34	0 ^h 44	11 ^h 37	21 ^h 33	3 ^h 3	27 ^h 32	0 ^h 51	29 ^h 19	28 ^h 2	4 ^h 56	5 ^h 11
T 24	6 11 58	2 ^h 50'46	15 ^h 17	11 ^h 26	14 ^h 45	1 ^h 20	11 ^h 29	21 ^h 39	3 ^h 5	27 ^h 34	0 ^h 49	29 ^h 8	27 ^h 59	5 ^h 3	5 ^h 13
W 25	6 15 55	3 ^h 51'58	29 ^h 54	12 ^h 40	15 ^h 56	1 ^h 56	11 ^h 21	21 ^h 44	3 ^h 7	27 ^h 36	0 ^h 48	28 ^h 58	27 ^h 56	5 ^h 10	5 ^h 15
T 26	6 19 52	4 ^h 53'09	14 ^h 35	13 ^h 56	17 ^h 7	2 ^h 32	11 ^h 13	21 ^h 50	3 ^h 9	27 ^h 38	0 ^h 47	28 ^h 48	27 ^h 52	5 ^h 16	5 ^h 17
F 27	6 23 48	5 ^h 54'21	29 ^h 11	15 ^h 14	18 ^h 18	3 ^h 8	11 ^h 5	21 ^h 56	3 ^h 12	27 ^h 40	0 ^h 46	28 ^h 41	27 ^h 49	5 ^h 23	5 ^h 20
S 28	6 27 45	6 ^h 55'32	13 ^h 38	16 ^h 33	19 ^h 29	3 ^h 44	10 ^h 57	22 ^h 2	3 ^h 14	27 ^h 42	0 ^h 45	28 ^h 36	27 ^h 46	5 ^h 30	5 ^h 22
S 29	6 31 41	7 ^h 56'43	27 ^h 52	17 ^h 54	20 ^h 39	4 ^h 20	10 ^h 49	22 ^h 7	3 ^h 16	27 ^h 45	0 ^h 43	28 ^h 34	27 ^h 43	5 ^h 36	5 ^h 25
M 30	6 35 38	8 ^h 57'54	11 ^h 50	19 ^h 16	21 ^h 50	4 ^h 56	10 ^h 40	22 ^h 13	3 ^h 18	27 ^h 47	0 ^h 42	28 ^h D34	27 ^h 40	5 ^h 43	5 ^h 27
T 31	6 39 34	9 ^h 59'04	25 ^h 34	20 ^h 38	23 ^h 0	5 ^h 11	10 ^h 32	22 ^h 19	3 ^h 21	27 ^h 49	0 ^h 41	28 ^h R34	27 ^h 37	5 ^h 50	5 ^h 30

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	21s54	8s28	3s35	20s 5	1n33	24s27	2s 5	5s40	1n15	22n45	0n 1	16s12	1s23	11s19	0s46	20s32	0n18	18n48	4s41	11n43	11n13	14n37	4s57	5n15
M 2	22 3	1 57	2 34	19 35	1 50	24 18	2 5	5 54	1 15	22 46	0 2	16 11	1 23	11 19	0 46	20 32	0 18	18 48	4 41	11 44	11 11	14 34	4 57	5 15
T 3	22 12	4n36	1 24	19 7	2 5	24 8	2 6	6 9	1 15	22 47	0 2	16 10	1 22	11 18	0 46	20 31	0 18	18 48	4 41	11 44	11 10	14 32	4 57	5 14
W 4	22 20	10 53	0 11	18 42	2 18	23 57	2 6	6 23	1 15	22 48	0 2	16 8	1 22	11 18	0 46	20 31	0 18	18 48	4 41	11 44	11 9	14 29	4 57	5 14
T 5	22 28	16 36	1n 3	18 20	2 29	23 46	2 7	6 36	1 15	22 48	0 2	16 7	1 22	11 17	0 46	20 31	0 18	18 48	4 41	11 44	11 8	14 26	4 57	5 14
F 6	22 35	21 25	2 12	18 2	2 38	23 34	2 7	6 50	1 15	22 49	0 2	16 6	1 22	11 17	0 46	20 30	0 18	18 48	4 41	11 43	11 7	14 23	4 57	5 13
S 7	22 42	25 3	3 13	17 48	2 44	23 22	2 7	7 4	1 15	22 50	0 2	16 4	1 22	11 16	0 46	20 30	0 18	18 48	4 41	11 41	11 6	14 20	4 57	5 13
S 8	22 48	27 17	4 2	17 39	2 48	23 9	2 7	7 18	1 14	22 51	0 2	16 3	1 22	11 16	0 45	20 30	0 18	18 48	4 41	11 39	11 5	14 17	4 57	5 13
M 9	22 54	28 1	4 38	17 33	2 50	22 55	2 7	7 32	1 14	22 51	0 3	16 1	1 22	11 15	0 45	20 29	0 18	18 48	4 41	11 36	11 4	14 14	4 56	5 12
T 10	23 0	27 15	5 0	17 32	2 51	22 40	2 7	7 45	1 14	22 52	0 3	16 0	1 22	11 15	0 45	20 29	0 18	18 48	4 41	11 33	11 2	14 11	4 56	5 12
W 11	23 5	25 9	5 7	17 34	2 50	22 25	2 7	7 59	1 14	22 53	0 3	15 58	1 22	11 14	0 45	20 29	0 18	18 48	4 41	11 30	11 1	14 8	4 56	5 12
T 12	23 9	21 56	4 59	17 39	2 48	22 10	2 7	8 13	1 14	22 54	0 3	15 57	1 22	11 14	0 45	20 28	0 18	18 48	4 41	11 27	11 0	14 5	4 56	5 11
F 13	23 13	17 51	4 39	17 47	2 44	21 53	2 6	8 26	1 14	22 55	0 3	15 55	1 22	11 13	0 45	20 28	0 18	18 48	4 41	11 25	10 59	14 2	4 55	5 11
S 14	23 17	13 7	4 7	17 57	2 40	21 36	2 6	8 40	1 14	22 56	0 3	15 53	1 22	11 12	0 45	20 28	0 18	18 48	4 41	11 23	10 58	13 59	4 55	5 10
S 15	23 20	7 55	3 25	18 10	2 35	21 19	2 5	8 53	1 14	22 56	0 3	15 52	1 22	11 12	0 45	20 27	0 18	18 48	4 41	11 22	10 57	13 56	4 55	5 10
M 16	23 23	2 25	2 33	18 24	2 29	21 1	2 4	9 6	1 13	22 57	0 4	15 50	1 22	11 11	0 45	20 27	0 18	18 48	4 41	11 22	10 56	13 54	4 54	5 10
T 17	23 25	3s15	1 34	18 39	2 22	20 42	2 4	9 19	1 13	22 58	0 4	15 48	1 22	11 11	0 45	20 26	0 18	18 48	4 41	11 23	10 54	13 51	4 54	5 9
W 18	23 27	8 54	0 30	18 56	2 15	20 23	2 3	9 33	1 13	22 59	0 4	15 47	1 22	11 10	0 45	20 26								