

SWISS EPHEMERIS for the year 1619

JANUARY 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 41 0	10 ²² 22'41	17 ⁰⁸ 46	8 ³⁵ 55	26 ²⁶ 22	3 ²¹ 14	5 ¹¹ 2	2°R11	21°R56	9 ³⁵ 35	9°R40	23°D 8	24 ³⁸ 0	0 ²⁷ 41	23 ²² 43	
W 2	6 44 56	11°23'50	2 ⁰² 19	10°32	27°13	3°37	5°13	2 ^{II} 8	21 ⁰⁵ 54	9°35	9 ³⁹ 39	23° 8	23°56	0°48	23°46	
T 3	6 48 53	12°24'59	16°29	12°10	28° 3	3°59	5°24	2° 5	21°51	9°36	9°39	23° 9	23°53	0°54	23°49	
F 4	6 52 49	13°26'07	0 ¹¹ 14	13°48	28°52	4°21	5°36	2° 2	21°49	9°36	9°38	23°10	23°50	1° 1	23°53	
S 5	6 56 46	14°27'16	13°32	15°26	29°41	4°43	5°47	1°59	21°46	9°36	9°38	23°10	23°47	1° 8	23°56	
S 6	7 0 42	15°28'24	26°26	17° 5	0 ¹¹ 28	5° 4	5°59	1°56	21°44	9°36	9°37	23°11	23°44	1°15	24° 0	
M 7	7 4 39	16°29'33	8 ²⁵ 59	18°44	1°14	5°25	6°11	1°53	21°41	9°36	9°37	23°12	23°40	1°21	24° 3	
T 8	7 8 35	17°30'41	21°14	20°24	2° 0	5°46	6°23	1°50	21°38	9°36	9°37	23°R12	23°37	1°28	24° 7	
W 9	7 12 32	18°31'49	3 ¹¹ 16	22° 4	2°45	6° 6	6°34	1°48	21°36	9°37	9°36	23°11	23°34	1°35	24°10	
T 10	7 16 29	19°32'58	15°10	23°45	3°28	6°26	6°46	1°45	21°33	9°37	9°36	23°11	23°31	1°41	24°14	
F 11	7 20 25	20°34'05	27° 0	25°26	4°10	6°45	6°59	1°43	21°31	9°R37	9°36	23°11	23°28	1°48	24°18	
S 12	7 24 22	21°35'13	8 ²⁷ 50	27° 8	4°52	7° 4	7°11	1°40	21°28	9°37	9°36	23°10	23°25	1°55	24°21	
S 13	7 28 18	22°36'20	20°44	28°50	5°32	7°23	7°23	1°38	21°25	9°37	9°35	23°10	23°21	2° 1	24°25	
M14	7 32 15	23°37'27	2 ³⁴ 45	0 ²² 32	6°10	7°41	7°41	1°36	21°23	9°36	9°35	23°D10	23°18	2° 8	24°29	
T 15	7 36 11	24°38'33	14°55	2°15	6°48	7°59	7°48	1°34	21°20	9°36	9°35	23°10	23°15	2°15	24°32	
W16	7 40 8	25°39'39	27°15	3°57	7°24	8°17	8° 0	1°32	21°18	9°36	9°35	23°R10	23°12	2°21	24°36	
T 17	7 44 4	26°40'44	9 ²² 48	5°41	7°59	8°34	8°13	1°30	21°15	9°36	9°35	23°10	23° 9	2°28	24°40	
F 18	7 48 1	27°41'48	2 ²³ 33	7°24	8°32	8°50	8°26	1°29	21°12	9°36	9°34	23°10	23° 6	2°35	24°44	
S 19	7 51 58	28°42'51	5 ¹¹ 32	9° 7	9° 4	9° 6	8°38	1°27	21°10	9°35	9°34	23° 9	23° 2	2°42	24°47	
S 20	7 55 54	29°43'53	18°44	10°50	9°34	9°22	8°51	1°26	21° 7	9°35	9°34	23° 8	22°59	2°48	24°51	
M21	7 59 51	0 ²² 44'53	2 ¹¹ 10	12°33	10° 3	9°37	9° 4	1°24	21° 5	9°35	9°34	23° 8	22°56	2°55	24°55	
T 22	8 3 47	1°45'53	15°49	14°16	10°30	9°52	9°17	1°23	21° 2	9°34	9°34	23° 7	22°53	3° 2	24°59	
W23	8 7 44	2°46'52	29°42	15°58	10°55	10° 6	9°30	1°22	20°59	9°34	9°D34	23°D 7	22°50	3° 8	25° 3	
T 24	8 11 40	3°47'49	13 ⁰⁸ 48	17°39	11°18	10°20	9°43	1°21	20°57	9°34	9°34	23° 7	22°46	3°15	25° 7	
F 25	8 15 37	4°48'45	28° 5	19°18	11°40	10°33	9°56	1°20	20°54	9°33	9°34	23° 7	22°43	3°22	25°11	
S 26	8 19 33	5°49'40	12 ^{II} 30	20°56	11°59	10°46	10°10	1°19	20°52	9°33	9°34	23° 8	22°40	3°28	25°15	
S 27	8 23 30	6°50'34	27° 1	22°33	12°16	10°58	10°23	1°19	20°49	9°32	9°34	23° 9	22°37	3°35	25°19	
M28	8 27 27	7°51'26	11 ⁰⁸ 32	24° 7	12°32	11°10	10°36	1°18	20°47	9°32	9°34	23°10	22°34	3°42	25°23	
T 29	8 31 23	8°52'17	25°59	25°38	12°45	11°21	10°50	1°18	20°44	9°31	9°34	23°R10	22°31	3°48	25°27	
W30	8 35 20	9°53'06	10 ⁰¹ 15	27° 5	12°56	11°31	11° 3	1°17	20°42	9°30	9°35	23°10	22°27	3°55	25°31	
T 31	8 39 16	10 ²² 53'55	24 ⁰¹ 15	28 ²⁸ 28	13 ¹¹ 5	11 ²⁴ 41	11 ¹¹ 16	1 ^{II} 17	20 ⁰⁴ 40	9 ²³ 30	9 ³⁵ 35	23 ³⁸ 8	22 ³² 24	4 ²⁷ 2	25 ²² 35	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	23s 5	22n48	0n30	24s56	1s45	13s11	0s27	0n58	2n28	10s43	1s 7	18n46	1s55	22n12	0n31	2s22
W 2	23 0 18 52	0s51	24 52	1 49	12 46	0 20	0 50	2 29	10 39	1 7	18 45	1 55	22 13	0 31	2 22	1 34
T 3	22 55 13 56	2 6	24 47	1 52	12 22	0 12	0 42	2 30	10 35	1 7	18 45	1 55	22 13	0 31	2 22	1 34
F 4	22 49 8 26	3 12	24 41	1 55	11 58	0 4	0 35	2 31	10 30	1 6	18 44	1 54	22 14	0 31	2 22	1 34
S 5	22 42 2 43	4 5	24 32	1 57	11 33	0n 4	0 27	2 32	10 26	1 6	18 44	1 54	22 14	0 31	2 22	1 34
S 6	22 35 2s55	4 44	24 22	2 0	11 9	0 12	0 19	2 33	10 22	1 6	18 44	1 54	22 15	0 31	2 22	1 34
M 7	22 28 8 17	5 8	24 11	2 2	10 45	0 20	0 12	2 34	10 17	1 6	18 43	1 54	22 15	0 31	2 22	1 34
T 8	22 20 13 12	5 17	23 58	2 3	10 20	0 29	0 5	2 35	10 13	1 6	18 43	1 54	22 15	0 31	2 22	1 34
W 9	22 12 17 31	5 12	23 43	2 4	9 56	0 38	0s 2	2 36	10 8	1 6	18 43	1 53	22 16	0 31	2 22	1 34
T 10	22 4 21 6	4 54	23 27	2 5	9 32	0 47	0 9	2 37	10 4	1 6	18 43	1 53	22 16	0 31	2 22	1 35
F 11	21 55 23 48	4 24	23 9	2 6	9 8	0 56	0 16	2 38	9 59	1 6	18 42	1 53	22 17	0 31	2 22	1 35
S 12	21 45 25 29	3 42	22 50	2 6	8 44	1 6	0 23	2 39	9 54	1 6	18 42	1 53	22 17	0 31	2 22	1 35
S 13	21 35 26 0	2 51	22 29	2 5	8 20	1 15	0 29	2 40	9 50	1 6	18 42	1 52	22 17	0 31	2 22	1 35
M14	21 25 25 19	1 51	22 6	2 4	7 57	1 25	0 35	2 41	9 45	1 5	18 42	1 52	22 18	0 31	2 22	1 35
T 15	21 14 23 25	0 46	21 42	2 3	7 33	1 36	0 41	2 42	9 40	1 5	18 42	1 52	22 18	0 31	2 22	1 35
W16	21 3 20 23	0n23	21 16	2 1	7 10	1 46	0 47	2 43	9 36	1 5	18 41	1 52	22 19	0 31	2 22	1 35
T 17	20 52 16 22	1 31	20 48	1 58	6 47	1 57	0 53	2 45	9 31	1 5	18 41	1 51	22 19	0 31	2 21	1 35
F 18	20 40 11 34	2 36	20 19	1 55	6 25	2 8	0 58	2 46	9 26	1 5	18 41	1 51	22 20	0 31	2 21	1 35
S 19	20 28 6 11	3 34	19 48	1 51	6 3	2 19	1 4	2 47	9 21	1 5	18 41	1 51	22 20	0 31	2 21	1 35
S 20	20 15 0 27	4 22	19 16	1 47	5 41	2 30	1 9	2 48	9 16	1 5	18 41	1 50	22 20	0 31	2 21	1 35
M21	20 2 5n23	4 56	18 42	1 42	5 19	2 42	1 14	2 49	9 11	1 5	18 41	1 50	22 21	0 31	2 21	1 35
T 22	19 49 11 4	5 14	18 7	1 36	4 58	2 53	1 19	2 50	9 6	1 5	18 41	1 50	22 21	0 31	2 21	1 35
W23	19 35 16 18	5 15	17 31	1 30	4 38	3 5	1 23	2 51	9 1	1 5	18 41	1 50	22 22	0 31	2 20	1 35
T 24	19 21 20 43	4 57	16 54	1 23	4 18	3 18	1 28	2 52	8 56	1 5	18 41	1 49	22 22	0 31	2 20	1 35
F 25	19 6 24 0	4 20	16 15	1 15	3 58	3 30	1 32	2 53	8 51	1 5	18 41	1 49	22 22	0 31	2 20	1 35
S 26	18 51 25 45	3 27	15 36	1 6	3 39	3 42	1 36	2 54	8 46	1 4	18 41	1 49	22 23	0 31	2 20	1 35
S 27	18 36 25 47	2 20	14 55	0 57	3 21	3 55	1 40	2 55	8 41	1 4	18 42	1 49	22 23	0 31	2 19	1 36
M28	18 21 24 3	1 4	14 15	0 47	3 3	4 8	1 43	2 56	8 36	1 4	18 42	1 48	22 23	0 31	2 19	1 36
T 29	18 5 20 45	0s16	13 34	0 36	2 46	4 21	1 47	2 57	8 31	1 4	18 42	1 48	22 24	0 31	2 19	1 36
W30	17 49 16 13	1 33	12 53	0 24	2 30	4 34	1 50	2 58	8 26	1 4	18 42	1 48	22 24	0 31	2 19	1 36
T 31	17s32	10n54	2s43	12s12	0s11	2s14	4n47	1s53	3n 0	8s20	1s 4	18n42	1s48	22n25	0n31	2s18

Julian Day Number = 2312387.5, Delta T = 94.74 sec
 Ecliptic obliquity = 23°29'23, Nutation = 0°00'16
 Ayanamsha: Fagan/Bradley = 19°25'22, Lahiri = 18°32'22Greg. Calendar

SWISS EPHEMERIS for the year 1619

FEBRUARY 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	8 43 13	11 ⁵⁴ 42	7 ⁵⁶ 56	29 ⁴⁷ 47	13 ¹¹ 11	11 ⁵¹ 51	11 ³⁰ 30	1°D17	20°R37	9°R29	9 ³⁵ 35	23°R 6	22 ²¹ 21	4 ⁹ 9	25 ³⁹ 39
S 2	8 47 9	12°55'28	21°16	1 ⁰ 0	13°15	11°59	11°44	1 ¹⁷ 17	20 ³⁵ 35	9 ²⁸ 28	9°35	23 ³ 3	22°18	4°15	25°43
S 3	8 51 6	13°56'13	4 ¹⁴ 14	2° 7	13°R16	12° 8	11°57	1°17	20°33	9°28	9°35	23° 0	22°15	4°22	25°47
M 4	8 55 2	14°56'57	16°51	3° 7	13°15	12°15	12°11	1°17	20°30	9°27	9°36	22°57	22°12	4°29	25°51
T 5	8 58 59	15°57'40	29°10	4° 0	13°12	12°22	12°25	1°18	20°28	9°26	9°36	22°55	22° 8	4°35	25°56
W 6	9 2 56	16°58'22	11 ¹⁵ 15	4°44	13° 6	12°28	12°39	1°18	20°26	9°25	9°36	22°54	22° 5	4°42	26° 0
T 7	9 6 52	17°59'02	23°10	5°19	12°58	12°34	12°52	1°19	20°23	9°24	9°36	22°D54	22° 2	4°49	26° 4
F 8	9 10 49	18°59'42	5 ⁰ 0	5°44	12°47	12°39	13° 6	1°20	20°21	9°23	9°37	22°54	21°59	4°55	26° 8
S 9	9 14 45	20° 0'20	16°51	5°59	12°33	12°43	13°20	1°20	20°19	9°23	9°37	22°56	21°56	5° 2	26°12
S 10	9 18 42	21° 0'57	28°47	6°R 4	12°17	12°47	13°34	1°21	20°17	9°22	9°38	22°58	21°52	5° 9	26°16
M11	9 22 38	22° 1'33	10 ⁵² 52	5°58	11°59	12°50	13°48	1°22	20°15	9°21	9°38	23° 0	21°49	5°15	26°20
T 12	9 26 35	23° 2'08	23° 9	5°42	11°38	12°52	14° 2	1°24	20°13	9°20	9°38	23°R 0	21°46	5°22	26°24
W13	9 30 31	24° 2'41	5 ³³ 33	5°16	11°15	12°54	14°16	1°25	20°11	9°19	9°39	22°59	21°43	5°29	26°29
T 14	9 34 28	25° 3'13	18°33	4°40	10°50	12°54	14°30	1°26	20° 9	9°18	9°39	22°57	21°40	5°35	26°33
F 15	9 38 25	26° 3'42	1 ⁴¹ 41	3°56	10°23	12°R54	14°45	1°28	20° 7	9°16	9°40	22°53	21°37	5°42	26°37
S 16	9 42 21	27° 4'11	15° 5	3° 5	9°54	12°54	14°59	1°29	20° 5	9°15	9°40	22°48	21°33	5°49	26°41
S 17	9 46 18	28° 4'37	28°44	2° 8	9°23	12°52	15°13	1°31	20° 3	9°14	9°41	22°42	21°30	5°56	26°45
M18	9 50 14	29° 5'02	12 ³⁴ 34	1° 7	8°50	12°50	15°27	1°33	20° 1	9°13	9°41	22°36	21°27	6° 2	26°49
T 19	9 54 11	0 ⁵² 52	26°33	0° 3	8°16	12°47	15°41	1°35	19°59	9°12	9°42	22°31	21°24	6° 9	26°54
W20	9 58 7	1° 5'46	10 ³⁸ 38	28 ⁵⁷ 57	7°41	12°43	15°56	1°37	19°57	9°11	9°42	22°28	21°21	6°16	26°58
T 21	10 2 4	2° 6'05	24°45	27°53	7° 5	12°39	16°10	1°39	19°55	9° 9	9°43	22°26	21°18	6°22	27° 2
F 22	10 6 0	3° 6'22	8 ⁵⁴ 54	26°50	6°28	12°33	16°24	1°41	19°54	9° 8	9°44	22°D26	21°14	6°29	27° 6
S 23	10 9 57	4° 6'36	23° 3	25°51	5°51	12°27	16°39	1°43	19°52	9° 7	9°44	22°27	21°11	6°36	27°10
S 24	10 13 54	5° 6'49	7 ⁵⁹ 59	24°55	5°13	12°20	16°53	1°46	19°50	9° 6	9°45	22°28	21° 8	6°42	27°14
M25	10 17 50	6° 7'00	21° 9	24° 6	4°35	12°13	17° 7	1°49	19°49	9° 4	9°46	22°R29	21° 5	6°49	27°18
T 26	10 21 47	7° 7'08	5 ¹⁰ 10	23°22	3°58	12° 4	17°22	1°51	19°47	9° 3	9°46	22°28	21° 2	6°56	27°23
W27	10 25 43	8° 7'15	18°59	22°45	3°21	11°55	17°36	1°54	19°46	9° 2	9°47	22°25	20°58	7° 2	27°27
T 28	10 29 40	9 ⁷ 7	2 ³⁸ 38	22 ¹⁴ 14	2 ⁴⁵ 45	11 ⁴⁵ 45	17 ⁵¹ 51	1 ⁵⁷ 57	19 ⁴⁴ 44	9 ⁰ 0	9 ⁴⁸ 48	22 ²⁰ 20	20 ⁵⁵ 55	7 ⁹ 9	27 ³¹ 31

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	17s15	5n10	3s43	11s32	0n 2	2s 0	5n 0	1s55	3n 1	8s15	1s 4	18n43	1s47	22n25	0n31
S 2	16 58	0s38	4 28	10 53	0 17	1 46	5 14	1 58	3 2	8 10	1 4	18 43	1 47	22 25	0 31
S 3	16 41	6 15	4 58	10 15	0 31	1 33	5 27	2 0	3 3	8 5	1 4	18 43	1 47	22 26	0 31
M 4	16 23	11 27	5 13	9 39	0 47	1 21	5 40	2 2	3 4	7 59	1 4	18 43	1 46	22 26	0 31
T 5	16 5 16	4 5	13 9	6 1	3 1	1 10	5 53	2 4	3 5	7 54	1 4	18 44	1 46	22 26	0 31
W 6	15 47	19 58	4 59	8 35	1 19	1 1	6 7	2 5	3 6	7 49	1 4	18 44	1 46	22 27	0 31
T 7	15 28	22 59	4 32	8 7	1 35	0 52	6 19	2 6	3 7	7 43	1 4	18 45	1 46	22 27	0 31
F 8	15 10	25 1	3 54	7 42	1 51	0 44	6 32	2 7	3 8	7 38	1 4	18 45	1 45	22 27	0 31
S 9	14 51	25 55	3 6	7 22	2 7	0 38	6 45	2 8	3 9	7 33	1 4	18 45	1 45	22 28	0 31
S 10	14 31	25 38	2 9	7 5	2 23	0 32	6 57	2 9	3 10	7 27	1 4	18 46	1 45	22 28	0 31
M11	14 12	24 9	1 6	6 53	2 38	0 28	7 9	2 9	3 11	7 22	1 4	18 46	1 45	22 28	0 31
T 12	13 52	21 29	0n 1	6 46	2 52	0 25	7 20	2 9	3 12	7 16	1 4	18 47	1 44	22 29	0 31
W13	13 32	17 46	1 9	6 44	3 5	0 24	7 31	2 9	3 13	7 11	1 4	18 47	1 44	22 29	0 31
T 14	13 12	13 9	2 15	6 46	3 17	0 24	7 42	2 8	3 14	7 5	1 4	18 48	1 44	22 29	0 31
F 15	12 51	7 51	3 16	6 53	3 26	0 25	7 52	2 7	3 15	7 0	1 4	18 48	1 44	22 29	0 31
S 16	12 31	2 6	4 6	7 4	3 34	0 27	8 1	2 6	3 16	6 54	1 4	18 49	1 43	22 30	0 31
S 17	12 10	3n50	4 44	7 19	3 40	0 30	8 9	2 5	3 16	6 49	1 4	18 50	1 43	22 30	0 31
M18	11 49	9 40	5 6	7 37	3 44	0 35	8 17	2 3	3 17	6 43	1 4	18 50	1 43	22 30	0 31
T 19	11 28	15 4	5 10	7 58	3 45	0 41	8 24	2 1	3 18	6 38	1 4	18 51	1 42	22 31	0 31
W20	11 6	19 43	4 55	8 22	3 44	0 48	8 30	1 59	3 19	6 32	1 3	18 52	1 42	22 31	0 31
T 21	10 45	23 15	4 23	8 47	3 41	0 57	8 35	1 57	3 20	6 27	1 3	18 52	1 42	22 31	0 31
F 22	10 23	25 22	3 34	9 13	3 35	1 6	8 40	1 54	3 20	6 21	1 3	18 53	1 42	22 31	0 31
S 23	10 1	25 51	2 33	9 40	3 28	1 17	8 43	1 51	3 21	6 15	1 3	18 54	1 41	22 32	0 31
S 24	9 39	24 40	1 22	10 6	3 20	1 28	8 45	1 48	3 22	6 10	1 3	18 54	1 41	22 32	0 31
M25	9 17	21 56	0 7	10 32	3 10	1 40	8 47	1 44	3 22	6 4	1 3	18 55	1 41	22 32	0 31
T 26	8 55	17 55	1s 8	10 57	2 58	1 53	8 47	1 40	3 23	5 59	1 3	18 56	1 41	22 32	0 31
W27	8 33	12 58	2 18	11 21	2 46	2 7	8 46	1 36	3 23	5 53	1 3	18 57	1 40	22 32	0 31
T 28	8s10	7n27	3s19	11s43	2n33	2s21	8n45	1s32	3n24	5s47	1s 3	18n58	1s40	22n33	0n31

Julian Day Number = 2312418.5, Delta T = 121.76 sec
 Ecliptic obliquity = 23°29'23", Nutation = 0°00'17"
 Ayanamsha: Fagan/Bradley = 19°25'26", Lahiri = 18°32'26"Greg. Calendar

SWISS EPHEMERIS for the year 1619

MARCH 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	10 33 36	10° 7'22"	16° 3' 3	21°R51	2°R10	11°R35	18° 5	2°II 0	19°R43	8°R59	9°R48	22°R13	20°R52	7°R16	27°R35
S 2	10 37 33	11° 7'23"	29°12	21°R34	1°R36	11°R23	18°20	2° 3	19°R42	8°R58	9°R49	22°R 5	20°49	7°22	27°39
S 3	10 41 29	12° 7'22"	12° 4	21°24	1° 4	11°11	18°34	2° 6	19°40	8°56	9°50	21°55	20°46	7°29	27°43
M 4	10 45 26	13° 7'19"	24°38	21°D21	0°33	10°58	18°49	2° 9	19°39	8°55	9°51	21°47	20°43	7°36	27°47
T 5	10 49 23	14° 7'14"	6° 57	21°23	0° 4	10°44	19° 3	2°13	19°38	8°53	9°52	21°39	20°39	7°42	27°51
W 6	10 53 19	15° 7'08"	19° 2	21°32	29°R37	10°30	19°18	2°16	19°37	8°52	9°52	21°33	20°36	7°49	27°55
T 7	10 57 16	16° 7'00"	0° 58	21°47	29°13	10°15	19°32	2°20	19°36	8°50	9°53	21°30	20°33	7°56	27°59
F 8	11 1 12	17° 6'50"	12°49	22° 7	28°50	9°59	19°47	2°23	19°34	8°49	9°54	21°D28	20°30	8° 2	28° 3
S 9	11 5 9	18° 6'39"	24°39	22°32	28°30	9°43	20° 1	2°27	19°33	8°47	9°55	21°28	20°27	8° 9	28° 7
S 10	11 9 5	19° 6'26"	6° 34	23° 2	28°12	9°25	20°16	2°31	19°33	8°46	9°56	21°29	20°24	8°16	28°11
M11	11 13 2	20° 6'11"	18°40	23°36	27°57	9° 8	20°30	2°35	19°32	8°44	9°57	21°R30	20°20	8°23	28°15
T 12	11 16 58	21° 5'55"	1° 2	24°14	27°44	8°49	20°45	2°39	19°31	8°43	9°58	21°29	20°17	8°29	28°19
W13	11 20 55	22° 5'36"	13°42	24°56	27°33	8°30	20°59	2°43	19°30	8°41	9°59	21°27	20°14	8°36	28°23
T 14	11 24 52	23° 5'16"	26°45	25°42	27°25	8°11	21°14	2°47	19°29	8°40	10° 0	21°22	20°11	8°43	28°26
F 15	11 28 48	24° 4'54"	10° 11	26°32	27°20	7°51	21°28	2°52	19°28	8°38	10° 1	21°15	20° 8	8°49	28°30
S 16	11 32 45	25° 4'30"	23°58	27°25	27°17	7°30	21°43	2°56	19°28	8°36	10° 2	21° 5	20° 4	8°56	28°34
S 17	11 36 41	26° 4'04"	8° 4	28°20	27°D16	7° 9	21°57	3° 1	19°27	8°35	10° 3	20°55	20° 1	9° 3	28°38
M18	11 40 38	27° 3'35"	22°23	29°19	27°18	6°48	22°12	3° 5	19°27	8°33	10° 4	20°44	19°58	9° 9	28°42
T 19	11 44 34	28° 3'05"	6° 49	0° 20	27°22	6°26	22°26	3°10	19°26	8°32	10° 5	20°35	19°55	9°16	28°45
W20	11 48 31	29° 2'32"	21°16	1°24	27°28	6° 4	22°41	3°15	19°26	8°30	10° 6	20°28	19°52	9°23	28°49
T 21	11 52 27	0° 1'57"	5° 38	2°30	27°37	5°41	22°55	3°20	19°25	8°28	10° 7	20°23	19°49	9°29	28°53
F 22	11 56 24	1° 1'20"	19°53	3°39	27°47	5°19	23°10	3°24	19°25	8°27	10° 8	20°21	19°45	9°36	28°56
S 23	12 0 21	2° 0'41"	3° 59	4°50	28° 0	4°56	23°24	3°29	19°25	8°25	10° 9	20°D20	19°42	9°43	29° 0
S 24	12 4 17	2°59'59"	17°54	6° 3	28°15	4°33	23°39	3°35	19°24	8°23	10°10	20°R21	19°39	9°49	29° 4
M25	12 8 14	3°59'14"	1° 38	7°18	28°32	4°10	23°53	3°40	19°24	8°22	10°11	20°20	19°36	9°56	29° 7
T 26	12 12 10	4°58'27"	15°13	8°35	28°51	3°47	24° 7	3°45	19°24	8°20	10°12	20°18	19°33	10° 3	29°11
W27	12 16 7	5°57'38"	28°37	9°53	29°11	3°23	24°22	3°50	19°24	8°18	10°14	20°13	19°29	10° 9	29°14
T 28	12 20 3	6°56'47"	11° 51	11°14	29°34	3° 0	24°36	3°56	19°D24	8°17	10°15	20° 5	19°26	10°16	29°18
F 29	12 24 0	7°55'53"	24°54	12°36	29°58	2°37	24°51	4° 1	19°24	8°15	10°16	19°55	19°23	10°23	29°21
S 30	12 27 56	8°54'58"	7° 45	14° 1	0° 24	2°14	25° 5	4° 7	19°24	8°14	10°17	19°43	19°20	10°29	29°25
S 31	12 31 53	9° 54'00"	20° 23	15° 26	0° 51	1° 51	25° 19	4° 12	19°24	8°12	10° 18	19° 29	19° 17	10° 36	29° 28

Day	☉		☽		♀		♁		♃		♅		♁		♁		♁		♁					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
F 1	7s47	1n42	4s 8	12s 3	2n20	2s36	8n42	1s27	3n24	5s42	1s 3	18n58	1s40	22n33	0n31	2s 5	1n37	0n 8	15s24	21s39	21s52	25s 4	7s 0	5n41
S 2	7 25	4s 0	4 43	12 22	2 6	2 51	8 39	1 23	3 24	5 36	1 3	18 59	1 40	22 33	0 31	2 4	1 37	0 9	15 24	21 41	21 52	25 5	6 59	5 41
S 3	7 2 9	25 5	2 12	38 1	5 2	3 6	8 34	1 18	3 25	5 30	1 3	19 0	1 39	22 33	0 31	2 4	1 37	0 9	15 24	21 42	21 53	25 5	6 57	5 41
M 4	6 39	14 18	5 6	12 53	1 38	3 21	8 29	1 12	3 25	5 25	1 3	19 1	1 39	22 33	0 31	2 3	1 37	0 10	15 23	21 43	21 53	25 6	6 56	5 41
T 5	6 16	18 31	4 56	13 5	1 24	3 37	8 23	1 7	3 25	5 19	1 3	19 2	1 39	22 33	0 31	2 3	1 37	0 10	15 23	21 45	21 54	25 6	6 55	5 41
W 6	5 53	21 53	4 32	13 15	1 10	3 52	8 16	1 1	3 25	5 13	1 4	19 3	1 39	22 34	0 31	2 2	1 37	0 11	15 23	21 46	21 54	25 7	6 53	5 41
T 7	5 29	24 16	3 57	13 24	0 56	4 7	8 9	0 55	3 25	5 7	1 4	19 4	1 38	22 34	0 31	2 1	1 37	0 11	15 22	21 46	21 55	25 7	6 52	5 41
F 8	5 6	25 34	3 12	13 30	0 43	4 23	8 1	0 49	3 25	5 2	1 4	19 5	1 38	22 34	0 31	2 1	1 37	0 12	15 22	21 46	21 55	25 8	6 50	5 41
S 9	4 43	25 42	2 19	13 34	0 29	4 37	7 53	0 43	3 25	4 56	1 4	19 6	1 38	22 34	0 31	2 0	1 37	0 12	15 22	21 46	21 56	25 8	6 49	5 41
S 10	4 19	24 39	1 19	13 36	0 17	4 52	7 43	0 36	3 25	4 50	1 4	19 7	1 38	22 34	0 31	1 59	1 37	0 13	15 22	21 46	21 56	25 9	6 48	5 41
M11	3 56	22 26	0 15	13 37	0 4	5 6	7 34	0 29	3 25	4 45	1 4	19 8	1 37	22 34	0 31	1 59	1 37	0 14	15 21	21 46	21 57	25 9	6 46	5 41
T 12	3 32	19 9	0n51	13 35	0s 7	5 20	7 24	0 22	3 25	4 39	1 4	19 9	1 37	22 34	0 31	1 58	1 37	0 14	15 21	21 46	21 57	25 9	6 45	5 41
W13	3 9	14 54	1 56	13 32	0 19	5 33	7 14	0 15	3 24	4 33	1 4	19 10	1 37	22 34	0 31	1 58	1 37	0 15	15 21	21 47	21 58	25 10	6 43	5 41
T 14	2 45	9 51	2 57	13 27	0 30	5 46	7 3	0 8	3 24	4 28	1 4	19 11	1 37	22 35	0 31	1 57	1 37	0 15	15 21	21 47	21 58	25 10	6 42	5 41
F 15	2 21	4 14	3 49	13 20	0 40	5 58	6 52	0 0	3 23	4 22	1 4	19 12	1 36	22 35	0 31	1 56	1 37	0 16	15 20	21 48	21 59	25 11	6 41	5 41
S 16	1 58	1n44	4 30	13 11	0 50	6 9	6 41	0n 7	3 23	4 16	1 4	19 13	1 36	22 35	0 31	1 56	1 37	0 16	15 20	21 50	21 59	25 11	6 39	5 41
S 17	1 34	7 43	4 55	13 1	1 0	6 20	6 30	0 15	3 22	4 10	1 4	19 14	1 36	22 35	0 31	1 55	1 37	0 17	15 20	21 52	22 0	25 11	6 38	5 42
M18	1 10	13 24	5 3	12 49	1 9	6 30	6 19	0 22	3 21	4 5	1 4	19 15	1 36	22 35	0 31	1 54	1 37	0 17	15 20	21 53	22 0	25 12	6 36	5 42
T 19	0 47	18 23	4 51	12 35	1 18	6 40	6 7	0 30	3 20	3 59	1 4	19 16	1 36	22 35	0 31	1 54	1 37	0 18	15 19	21 55	22 1	25 12	6 35	5 42
W20	0 23	22 18	4 21	12 20	1 26	6 48	5 56	0 38	3 19	3 53	1 4	19 17	1 35	22 35	0 31	1 53	1 38	0 18	15 19	21 56	22 1	25 13	6 34	5 42
T 21	0n 1	24 48	3 34	12 3	1 33	6 57	5 44	0 46	3 18	3 48	1 4	19 19	1 35	22 35	0 31	1 52	1 38	0 19	15 19	21 56	22 1	25 13	6 32	5 42
F 22	0 24	25 40	2 34	11 45	1 41	7 4	5 32	0 54	3 17	3 42	1 4	19 20	1 35	22 35	0 30	1 52	1 38	0 19	15 19	21 57	22 2	25 13	6 31	5 42
S 23	0 48	24 52	1 26	11 25	1 47	7 10	5 21	1 2	3 16	3 36	1 4	19 21	1 35	22 35	0 30	1 51	1 38	0 20	15 18	21 57	22 2	25 14	6 30	5 42
S 24	1 12	22 30	0 13	11 4	1 53	7 16	5 9	1 10	3 15	3 31														

SWISS EPHEMERIS for the year 1619

APRIL 1619 GC

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M 1	12 35 49	10°Y53'00	2M48	16X54	1X21	1°R28	25X33	4II18	19E24	8°R10	10B20	19°R16	19B14	10X43	29X31
T 2	12 39 46	11°51'59	15° 0	18°23	1°51	1A 6	25°48	4°24	19°25	8A 9	10°21	19°5 4	19°10	10°49	29°35
W 3	12 43 43	12°50'55	27° 2	19°54	2°23	0°44	26° 2	4°29	19°25	8° 7	10°22	18°55	19° 7	10°56	29°38
T 4	12 47 39	13°49'50	8X56	21°26	2°57	0°22	26°16	4°35	19°25	8° 5	10°23	18°48	19° 4	11° 3	29°41
F 5	12 51 36	14°48'43	20°45	23° 0	3°32	0° 0	26°30	4°41	19°26	8° 4	10°24	18°44	19° 1	11° 9	29°45
S 6	12 55 32	15°47'34	2B34	24°36	4° 8	29M39	26°44	4°47	19°26	8° 2	10°26	18°42	18°58	11°16	29°48
S 7	12 59 29	16°46'23	14°29	26°13	4°45	29°18	26°58	4°53	19°27	8° 0	10°27	18°42	18°55	11°23	29°51
M 8	13 3 25	17°45'11	26°33	27°52	5°24	28°58	27°12	4°59	19°27	7°59	10°28	18°42	18°51	11°29	29°54
T 9	13 7 22	18°43'57	8X54	29°32	6° 3	28°38	27°27	5° 5	19°28	7°57	10°29	18°41	18°48	11°36	29°57
W10	13 11 18	19°42'41	21°36	1Y14	6°44	28°19	27°40	5°12	19°29	7°55	10°31	18°38	18°45	11°43	29°59
T 11	13 15 15	20°41'23	4X42	2°57	7°26	28° 0	27°54	5°18	19°29	7°54	10°32	18°33	18°42	11°49	0X 3
F 12	13 19 12	21°40'04	18°16	4°42	8° 9	27°42	28° 8	5°24	19°30	7°52	10°33	18°25	18°39	11°56	0° 6
S 13	13 23 8	22°38'43	2Y16	6°29	8°53	27°24	28°22	5°31	19°31	7°51	10°35	18°15	18°35	12° 3	0° 9
S 14	13 27 5	23°37'20	16°40	8°17	9°37	27° 8	28°36	5°37	19°32	7°49	10°36	18° 4	18°32	12°10	0°12
M15	13 31 1	24°35'55	1B21	10° 7	10°23	26°51	28°50	5°44	19°33	7°48	10°37	17°52	18°29	12°16	0°14
T 16	13 34 58	25°34'28	16°13	11°58	11°10	26°36	29° 4	5°50	19°34	7°46	10°39	17°42	18°26	12°23	0°17
W17	13 38 54	26°32'59	1II 4	13°51	11°57	26°21	29°17	5°57	19°35	7°44	10°40	17°34	18°23	12°30	0°20
T 18	13 42 51	27°31'28	15° 49	15°46	12°45	26° 7	29°31	6° 4	19°36	7°43	10°41	17°28	18°20	12°36	0°23
F 19	13 46 47	28°29'55	0E21	17°43	13°34	25°54	29°45	6°10	19°37	7°41	10°42	17°25	18°16	12°43	0°25
S 20	13 50 44	29°28'20	14°35	19°40	14°23	25°41	29°58	6°17	19°38	7°40	10°44	17°D25	18°13	12°50	0°28
S 21	13 54 41	0B26'43	28°32	21°40	15°14	25°29	0Y12	6°24	19°39	7°38	10°45	17°R25	18°10	12°56	0°30
M22	13 58 37	1°25'03	12A11	23°41	16° 5	25°18	0°25	6°31	19°41	7°37	10°47	17°24	18° 7	13° 3	0°33
T 23	14 2 34	2°23'21	25°34	25°43	16°56	25° 8	0°39	6°38	19°42	7°35	10°48	17°22	18° 4	13°10	0°35
W24	14 6 30	3°21'38	8M42	27°47	17°48	24°59	0°52	6°45	19°43	7°34	10°49	17°18	18° 1	13°16	0°38
T 25	14 10 27	4°19'52	21°37	29°53	18°41	24°50	1° 5	6°52	19°45	7°32	10°51	17°11	17°57	13°23	0°40
F 26	14 14 23	5°18'04	4A20	1B59	19°34	24°42	1°18	6°59	19°46	7°31	10°52	17° 1	17°54	13°30	0°42
S 27	14 18 20	6°16'14	16°52	4° 7	20°28	24°35	1°32	7° 6	19°48	7°30	10°53	16°50	17°51	13°36	0°44
S 28	14 22 16	7°14'22	29°14	6°15	21°23	24°29	1°45	7°13	19°50	7°28	10°55	16°37	17°48	13°43	0°47
M29	14 26 13	8°12'29	11M26	8°24	22°18	24°24	1°58	7°20	19°51	7°27	10°56	16°25	17°45	13°50	0°49
T 30	14 30 10	9B10'34	23M30	10B34	23X13	24M19	2Y11	7II28	19E53	7A26	10B57	16B14	17B41	13X56	0X51

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	4n19	17s 2	4s52	7s25	2s25	7s36	3n39	2n11	3n 1	2s45	1s 5	19n32	1s33	22n35	0n30	1s45	1n38	0n25	15s17	22s 6	22s 6	25s17	6s18	5n44
T 2	4 42	20 41	4 31	6 51	2 27	7 36	3 28	2 18	2 59	2 40	1 5	19 33	1 33	22 35	0 30	1 44	1 38	0 25	15 16	22 8	22 7	25 17	6 16	5 44
W 3	5 5	23 23	3 57	6 17	2 28	7 34	3 18	2 25	2 57	2 34	1 5	19 34	1 32	22 35	0 30	1 44	1 38	0 26	15 16	22 9	22 7	25 17	6 15	5 44
T 4	5 28	25 2	3 14	5 41	2 29	7 32	3 7	2 32	2 55	2 29	1 5	19 35	1 32	22 35	0 30	1 43	1 38	0 26	15 16	22 10	22 10	25 17	6 14	5 44
F 5	5 51	25 32	2 22	5 4	2 29	7 29	2 57	2 38	2 53	2 23	1 5	19 37	1 32	22 35	0 30	1 43	1 38	0 27	15 16	22 11	22 8	25 18	6 12	5 44
S 6	6 14	24 52	1 24	4 26	2 29	7 25	2 47	2 45	2 51	2 18	1 5	19 38	1 32	22 35	0 30	1 42	1 38	0 27	15 16	22 11	22 9	25 18	6 11	5 45
S 7	6 36	23 4	0 22	3 46	2 28	7 21	2 37	2 51	2 48	2 12	1 5	19 39	1 32	22 34	0 30	1 41	1 38	0 28	15 16	22 11	22 9	25 18	6 10	5 45
M 8	6 59	20 13	0n42	3 6	2 27	7 16	2 27	2 57	2 46	2 6	1 5	19 41	1 31	22 34	0 30	1 41	1 38	0 28	15 16	22 11	22 10	25 18	6 9	5 45
T 9	7 21	16 23	1 45	2 24	2 25	7 11	2 18	3 3	2 44	2 1	1 5	19 42	1 31	22 34	0 30	1 40	1 38	0 29	15 15	22 11	22 10	25 19	6 7	5 45
W10	7 44	11 44	2 45	1 42	2 23	7 4	2 8	3 8	2 41	1 55	1 5	19 43	1 31	22 34	0 30	1 39	1 38	0 29	15 15	22 11	22 10	25 19	6 6	5 45
T 11	8 6	6 26	3 38	0 58	2 20	6 57	1 59	3 13	2 39	1 50	1 5	19 44	1 31	22 34	0 30	1 39	1 38	0 30	15 15	22 12	22 11	25 19	6 5	5 46
F 12	8 28	0 39	4 20	0 13	2 17	6 50	1 50	3 18	2 36	1 44	1 5	19 46	1 31	22 34	0 30	1 38	1 38	0 30	15 15	22 13	22 11	25 19	6 4	5 46
S 13	8 50	5n19	4 49	0n33	2 13	6 42	1 41	3 23	2 34	1 39	1 6	19 47	1 30	22 34	0 30	1 37	1 38	0 31	15 15	22 15	22 12	25 19	6 2	5 46
S 14	9 11	11 11	5 0	1 19	2 9	6 33	1 32	3 27	2 31	1 34	1 6	19 48	1 30	22 34	0 30	1 37	1 38	0 31	15 15	22 16	22 12	25 20	6 1	5 46
M15	9 33	16 32	4 52	2 7	2 4	6 24	1 24	3 31	2 28	1 28	1 6	19 50	1 30	22 33	0 30	1 36	1 38	0 32	15 15	22 18	22 13	25 20	6 0	5 47
T 16	9 54	20 56	4 25	2 56	1 58	6 14	1 15	3 35	2 26	1 23	1 6	19 51	1 30	22 33	0 30	1 36	1 38	0 32	15 15	22 19	22 13	25 20	5 59	5 47
W17	10 16	23 59	3 39	3 45	1 52	6 4	1 7	3 38	2 23	1 17	1 6	19 52	1 30	22 33	0 30	1 35	1 38	0 33	15 14	22 20	22 14	25 20	5 58	5 47
T 18	10 37	25 22	2 39	4 35	1 46	5 53	0 59	3 42	2 20	1 12	1 6	19 54	1 30	22 33	0 30	1 34	1 38	0 33	15 14	22 21	22 14	25 20	5 57	5 47
F 19	10 58	24 58	1 29	5 26	1 39	5 41	0 51	3 44	2 18	1 7	1 6	19 55	1 29	22 33	0 30	1 34	1 38	0 34	15 14	22 21	22 14	25 21	5 55	5 48
S 20	11 19	22 56	0 15	6 18	1 32	5 29	0 43	3 47	2 15	1 1	1 6	19 56	1 29	22 33	0 30	1 33	1 38	0 34	15 14	22 21	22 15	25 21	5 54	5 48
S 21	11 39	19 32	0s59	7 10	1 24	5 17	0 36	3 49	2 12	0 56	1 6	19 58	1 29	22 32	0 30	1 33	1 38	0 35	15 14	22 21	22 15	25 21	5 53	5 48
M22	11 59	15 8	2 7	8 2	1 16	5 4	0 28	3 51	2 10	0 51	1 6	19 59	1 29	22 32	0 30	1 32	1 37	0 35	15 14	22 21	22 16	25 21	5 52	5 48
T 23	12 20	10 5	3 7	8 55	1 7	4 51	0 21	3 53	2 7	0 46	1 7	20 0	1 29	22 32	0 30	1 32	1 37	0 35	15 14	22 22	22 16	25 21	5 51	5 49
W24	12 40	4 40	3 57	9 48	0 58	4 37	0 14	3 54	2 4	0 40	1 7	20 1	1 29	22 32	0 30	1 31	1 37	0 36	15 14	22 22	22 17	25 21	5 50	5 49
T 25	12 59	0s50	4 33	10 41	0 49	4 22	0 7	3 55	2 1	0 35	1 7	20 3	1 29	22 31	0 30	1 30	1 37	0 36	15 14	22 23	22 17	25 21	5 49	5 49
F 26	13 19	6 13	4 54	11 35	0 39	4 8	0 1	3 55	1 59	0 30	1 7	20 4	1 28	22 31	0 30	1 30	1 37	0 37	15 14	22 24	22 17	25 21	5 48	5 49
S 27	13 38	11 17	5 2	12 28	0 29	3 52	0s 6	3 56	1 56	0 25	1 7	20 5	1 28	22 31	0 30	1 29	1 37	0 37	15 14	22 26	22 18	25 22	5 47	5 50
S 28	13 57	15 48	4 54	13 20	0 19	3 37	0 12	3 56	1 53	0 20	1 7	20 7	1 28	22 31	0 30	1 29	1 37	0 38	15 14	22 27	22 18	25 22	5 46	5 50
M29	14 16	19 38	4 34	14 12	0 8	3 21	0 18	3 55	1 51	0 15	1 7	20 8	1 28	22 30	0 30	1 28	1 37	0 38	15 14	22 29	22 19	25 22	5 45	5 50
T 30	14n35	22s34	4s 1	15n 4	0n 2	3s 4	0s24	3n55	1															

SWISS EPHEMERIS for the year 1619

MAY 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁
W 1	14 34 6	10♈ 8'38	5♊26	12♉44	24♋9	24°R15	2♃24	7♂35	19♁55	7°R24	10♉59	16°R 5	17♉38	14♊ 3	0♈53
T 2	14 38 3	11° 6'40	17°17	14°54	25° 6	24♋12	2°37	7°42	19°56	7♁23	11° 0	15♉59	17°35	14°10	0°55
F 3	14 41 59	12° 4'40	29° 4	17° 4	26° 3	24°10	2°49	7°49	19°58	7°22	11° 1	15°55	17°32	14°16	0°57
S 4	14 45 56	13° 2'39	10♉53	19°14	27° 0	24° 8	3° 2	7°57	20° 0	7°20	11° 3	15°D54	17°29	14°23	0°59
S 5	14 49 52	14° 0'37	22°47	21°22	27°58	24°D 8	3°15	8° 4	20° 2	7°19	11° 4	15°54	17°26	14°30	1° 0
M 6	14 53 49	14°58'33	4♋51	23°30	28°56	24° 8	3°28	8°12	20° 4	7°18	11° 5	15°54	17°22	14°36	1° 2
T 7	14 57 45	15°56'28	17°10	25°36	29°55	24° 8	3°40	8°19	20° 6	7°17	11° 7	15°R55	17°19	14°43	1° 4
W 8	15 1 42	16°54'22	29°49	27°40	0♃54	24°10	3°53	8°26	20° 8	7°15	11° 8	15°54	17°16	14°50	1° 6
T 9	15 5 39	17°52'14	12♋54	29°42	1°53	24°12	4° 5	8°34	20°10	7°14	11°10	15°51	17°13	14°56	1° 7
F 10	15 9 35	18°50'05	26°26	1♂43	2°53	24°15	4°17	8°41	20°12	7°13	11°11	15°46	17°10	15° 3	1° 9
S 11	15 13 32	19°47'55	10♃27	3°41	3°53	24°19	4°30	8°49	20°14	7°12	11°12	15°39	17° 6	15°10	1°10
S 12	15 17 28	20°45'44	24°55	5°36	4°53	24°23	4°42	8°57	20°17	7°11	11°14	15°31	17° 3	15°16	1°12
M13	15 21 25	21°43'31	9♉46	7°29	5°54	24°29	4°54	9° 4	20°19	7°10	11°15	15°23	17° 0	15°23	1°13
T 14	15 25 21	22°41'17	24°51	9°20	6°55	24°34	5° 6	9°12	20°21	7° 9	11°16	15°16	16°07	15°30	1°14
W15	15 29 18	23°39'02	10♂ 0	11° 7	7°56	24°41	5°18	9°19	20°24	7° 8	11°18	15°10	16°04	15°36	1°16
T 16	15 33 14	24°36'46	25° 4	12°51	8°58	24°48	5°30	9°27	20°26	7° 7	11°19	15° 6	16°01	15°43	1°17
F 17	15 37 11	25°34'28	9♁54	14°32	10° 0	24°56	5°41	9°35	20°28	7° 6	11°20	15°D 4	16°07	15°50	1°18
S 18	15 41 8	26°32'08	24°24	16°11	11° 2	25° 5	5°53	9°42	20°31	7° 5	11°22	15° 5	16°04	15°56	1°19
S 19	15 45 4	27°29'47	8♁32	17°46	12° 4	25°14	6° 5	9°50	20°33	7° 4	11°23	15° 6	16°01	16° 3	1°20
M20	15 49 1	28°27'24	22°16	19°17	13° 7	25°24	6°16	9°58	20°36	7° 3	11°24	15°R 7	16°08	16°10	1°21
T 21	15 52 57	29°25'00	5♃38	20°46	14° 9	25°34	6°28	10° 6	20°38	7° 2	11°26	15° 7	16°05	16°16	1°22
W22	15 56 54	0♂22'34	18°40	22°11	15°13	25°45	6°39	10°13	20°41	7° 1	11°27	15° 5	16°02	16°23	1°23
T 23	16 0 50	1°20'06	1♁25	23°33	16°16	25°57	6°50	10°21	20°44	7° 0	11°28	15° 1	16°08	16°30	1°24
F 24	16 4 47	2°17'38	13°55	24°52	17°19	26° 9	7° 1	10°29	20°46	7° 0	11°29	14°56	16°05	16°36	1°24
S 25	16 8 43	3°15'08	26°14	26° 7	18°23	26°22	7°12	10°37	20°49	6°59	11°31	14°49	16°02	16°43	1°25
S 26	16 12 40	4°12'36	8♂23	27°19	19°27	26°35	7°23	10°45	20°52	6°58	11°32	14°42	16°09	16°50	1°26
M27	16 16 37	5°10'04	20°24	28°27	20°31	26°49	7°34	10°52	20°55	6°57	11°33	14°35	16°06	16°56	1°26
T 28	16 20 33	6° 7'31	2♊19	29°32	21°36	27° 4	7°45	11° 0	20°57	6°57	11°34	14°28	16°02	17° 3	1°27
W29	16 24 30	7° 4'56	14°10	0♁33	22°40	27°19	7°55	11° 8	21° 0	6°56	11°36	14°23	16° 9	17°10	1°27
T 30	16 28 26	8° 2'21	25°59	1°31	23°45	27°34	8° 6	11°16	21° 3	6°55	11°37	14°20	16° 6	17°16	1°28
F 31	16 32 23	8♂59'45	7♉47	2♁24	24♃50	27♃50	8♃16	11♂24	21♁ 6	6♁55	11♉38	14♉18	16♉ 3	17♊23	1♈28

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	14n53	24s30	3s18	15n54	0n13	2s47	0s30	3n54	1n45	0s 5	1s 8	20n11	1s28	22n30	0n30	1s27	1n37	0n39	15s14	22s31	22s19	25s22	5s43	5n51
T 2	15 12 25	19 2 26	16 43	0 23	2 30	0 36	3 53	1 43	0n 0	1 8	20 12	1 28	22 30	0 30	1 27	1 37	0 39	15 13	22 32	22 20	25 22	5 42	5 51	
F 3	15 30 24	58 1 29	17 31	0 34	2 12	0 41	3 51	1 40	0 5	1 8	20 13	1 27	22 29	0 30	1 26	1 37	0 40	15 13	22 32	22 20	25 22	5 41	5 51	
S 4	15 47 23	29 0 27	18 17	0 44	1 55	0 47	3 49	1 38	0 10	1 8	20 15	1 27	22 29	0 30	1 26	1 37	0 40	15 13	22 32	22 21	25 22	5 40	5 52	
S 5	16 5 20	57 0n37	19 1	0 54	1 36	0 52	3 47	1 35	0 15	1 8	20 16	1 27	22 29	0 30	1 25	1 37	0 41	15 13	22 32	22 21	25 22	5 39	5 52	
M 6	16 22 17	29 1 40	19 43	1 4	1 18	0 57	3 45	1 32	0 20	1 8	20 17	1 27	22 28	0 30	1 25	1 37	0 41	15 13	22 32	22 22	25 22	5 38	5 52	
T 7	16 39 13	11 2 39	20 23	1 14	0 59	1 2	3 42	1 30	0 25	1 8	20 19	1 27	22 28	0 30	1 24	1 37	0 41	15 13	22 32	22 22	25 22	5 37	5 52	
W 8	16 55 8 14	3 33	21 1	1 22	0 40	1 7	3 40	1 27	0 30	1 8	20 20	1 27	22 28	0 30	1 24	1 37	0 42	15 13	22 32	22 22	25 22	5 36	5 53	
T 9	17 12 2 46	4 17	21 37	1 31	0 20	1 11	3 36	1 25	0 35	1 9	20 21	1 27	22 28	0 30	1 24	1 37	0 42	15 13	22 33	22 23	25 22	5 36	5 53	
F 10	17 28 3n 0	4 49	22 10	1 39	0 1	1 16	3 33	1 22	0 39	1 9	20 22	1 27	22 27	0 30	1 23	1 37	0 43	15 13	22 33	22 23	25 22	5 35	5 53	
S 11	17 43 8 49	5 5	22 40	1 46	0n19	1 20	3 29	1 20	0 44	1 9	20 24	1 26	22 27	0 30	1 23	1 37	0 43	15 13	22 34	22 24	25 22	5 34	5 54	
S 12	17 59 14 21	5 2	23 8	1 53	0 40	1 24	3 25	1 18	0 49	1 9	20 25	1 26	22 27	0 30	1 22	1 37	0 43	15 14	22 35	22 24	25 22	5 33	5 54	
M13	18 14 19 11	4 39	23 33	1 58	1 0	1 28	3 21	1 15	0 53	1 9	20 26	1 26	22 26	0 30	1 22	1 37	0 44	15 14	22 36	22 24	25 22	5 32	5 54	
T 14	18 29 22 50	3 57	23 56	2 4	1 21	1 32	3 16	1 13	0 58	1 9	20 27	1 26	22 26	0 30	1 21	1 37	0 44	15 14	22 37	22 25	25 22	5 32	5 55	
W15	18 43 24 55	2 57	24 16	2 8	1 42	1 36	3 12	1 10	1 3	1 10	20 29	1 26	22 25	0 29	1 21	1 37	0 44	15 14	22 38	22 25	25 22	5 31	5 55	
T 16	18 58 25 9	1 46	24 34	2 11	2 3	1 39	3 7	1 8	1 7	1 10	20 30	1 26	22 25	0 29	1 21	1 37	0 45	15 14	22 38	22 26	25 22	5 30	5 55	
F 17	19 12 23 35	0 28	24 49	2 14	2 24	1 42	3 1	1 6	1 12	1 10	20 31	1 26	22 25	0 29	1 20	1 37	0 45	15 14	22 38	22 26	25 22	5 30	5 55	
S 18	19 25 20 28	0s50	25 2	2 16	2 45	1 46	2 56	1 4	1 16	1 10	20 32	1 26	22 24	0 29	1 20	1 37	0 45	15 14	22 38	22 26	25 22	5 29	5 56	
S 19	19 39 16 11	2 3	25 12	2 17	3 7	1 49	2 50	1 1	1 21	1 10	20 34	1 26	22 24	0 29	1 20	1 37	0 46	15 14	22 38	22 27	25 22	5 28	5 56	
M20	19 51 11 10	3 7	25 21	2 18	3 28	1 52	2 44	0 59	1 25	1 10	20 35	1 25	22 24	0 29	1 19	1 37	0 46	15 14	22 38	22 27	25 22	5 28	5 56	
T 21	20 4 5 46	3 59	25 27	2 17	3 50	1 55	2 38	0 57	1 29	1 11	20 36	1 25	22 23	0 29	1 19	1 37	0 46	15 14	22 38	22 27	25 22	5 27	5 57	
W22	20 16 0 15	4 37	25 31	2 16	4 12	1 57	2 32	0 55	1 34	1 11	20 37	1 25	22 23	0 29	1 19	1 37	0 47	15 14	22 38	22 28	25 22	5 26	5 57	
T 23	20 28 5s 9	5 0	25 33	2 14	4 34	2 0	2 25	0 53	1 38	1 11	20 39	1 25	22 22	0 29	1 18	1 37	0 47	15 14	22 38	22 28	25 22	5 26	5 57	
F 24	20 40 10 15	5 9	25 34	2 11	4 56	2 2	2 18	0 51	1 42	1 11	20 40	1 25	22 22	0 29	1 18	1 37	0 47	15 14	22 39	22 29	25 22	5 25	5 58	
S 25	20 51 14 51	5 3	25 33	2 7	5 18	2 4	2 11	0 48	1 46	1 11	20 41	1 25	22 21	0 29	1 18	1 37	0 48	15 14	22 40	22 29	25 22	5 25	5 58	
S 26	21 2 18 48	4 43	25 30	2 2	5 40	2 7	2 4	0 46	1 51	1 11	20 42	1 25	22 21	0 29	1 18	1 36	0 48	15 14	22 41	22 29	25 22	5 24	5 58	
M27	21 12 21 55	4 11	25 26	1 57	6 3	2 9	1 57	0 44	1 55	1 12	20 43	1 25	22 21	0 29	1 17	1 36	0 48	15 14	22 41	22 30	25 22	5 24	5 59	
T 28	21 23 24 4	3 29	25 20	1 51	6 25	2 10	1 49	0 42	1 59	1 12	20 45	1 25	22 20	0 29	1 17	1 36	0 48	15 15	22 42	22 30	25 21	5 23	5 59	
W29	21 32 25 9	2 37	25 13	1 43	6 47	2 12	1 41	0 40	2 3	1 12	20 46	1 25	22 20	0 29	1 17	1 36	0 49							

SWISS EPHEMERIS for the year 1619

JUNE 1619 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	16 36 19	9II57'08	19Z38	3E14	25Y55	28M 7	8Y27	11II32	21E 9	6°R54	11B39	14°D18	16Z 0	17A30	1K28
S 2	16 40 16	10°54'30	1A35	4° 0	27° 0	28°24	8°37	11°39	21°12	6A54	11°41	14Z19	15°57	17°36	1°28
M 3	16 44 12	11°51'52	13°42	4°42	28° 6	28°41	8°47	11°47	21°15	6°53	11°42	14°21	15°53	17°43	1°29
T 4	16 48 9	12°49'13	26° 3	5°20	29°11	28°59	8°57	11°55	21°18	6°53	11°43	14°23	15°50	17°50	1°29
W 5	16 52 6	13°46'33	8K41	5°53	0B17	29°18	9° 7	12° 3	21°21	6°52	11°44	14°R23	15°47	17°56	1°R29
T 6	16 56 2	14°43'53	21°42	6°22	1°23	29°37	9°16	12°11	21°24	6°52	11°45	14°23	15°44	18° 3	1°29
F 7	16 59 59	15°41'13	5Y 9	6°47	2°29	29°56	9°26	12°19	21°27	6°52	11°47	14°22	15°41	18°10	1°29
S 8	17 3 55	16°38'32	19° 3	7° 8	3°35	0A16	9°36	12°26	21°31	6°51	11°48	14°20	15°38	18°16	1°28
S 9	17 7 52	17°35'51	3B25	7°24	4°42	0°36	9°45	12°34	21°34	6°51	11°49	14°16	15°34	18°23	1°28
M10	17 11 48	18°33'09	18°10	7°35	5°48	0°57	9°54	12°42	21°37	6°51	11°50	14°13	15°31	18°30	1°28
T 11	17 15 45	19°30'27	3II12	7°42	6°55	1°18	10° 3	12°50	21°40	6°50	11°51	14°10	15°28	18°36	1°28
W12	17 19 41	20°27'45	18°24	7°R44	8° 2	1°39	10°13	12°58	21°43	6°50	11°52	14° 7	15°25	18°43	1°27
T 13	17 23 38	21°25'02	3E36	7°42	9° 9	2° 1	10°21	13° 5	21°47	6°50	11°53	14° 6	15°22	18°50	1°27
F 14	17 27 35	22°22'19	18°37	7°35	10°16	2°23	10°30	13°13	21°50	6°50	11°54	14°D 6	15°18	18°56	1°26
S 15	17 31 31	23°19'34	3L20	7°25	11°23	2°46	10°39	13°21	21°53	6°50	11°56	14° 6	15°15	19° 3	1°26
S 16	17 35 28	24°16'50	17°40	7° 9	12°30	3° 9	10°47	13°29	21°57	6°50	11°57	14° 8	15°12	19° 9	1°25
M17	17 39 24	25°14'04	1M34	6°50	13°38	3°32	10°56	13°36	22° 0	6°50	11°58	14° 9	15° 9	19°16	1°24
T 18	17 43 21	26°11'18	15° 2	6°28	14°45	3°56	11° 4	13°44	22° 3	6°D50	11°59	14°10	15° 6	19°23	1°24
W19	17 47 17	27° 8'31	28° 6	6° 2	15°53	4°20	11°12	13°52	22° 7	6°50	12° 0	14°R10	15° 3	19°29	1°23
T 20	17 51 14	28° 5'43	10A49	5°33	17° 1	4°45	11°20	14° 0	22°10	6°50	12° 1	14°10	14°59	19°36	1°22
F 21	17 55 11	29° 2'55	23°15	5° 1	18° 9	5°10	11°28	14° 7	22°14	6°50	12° 2	14° 9	14°56	19°43	1°21
S 22	17 59 7	0E 0'06	5L26	4°28	19°17	5°35	11°35	14°15	22°17	6°50	12° 3	14° 7	14°53	19°49	1°20
S 23	18 3 4	0°57'17	17°28	3°53	20°25	6° 0	11°43	14°23	22°20	6°50	12° 4	14° 5	14°50	19°56	1°19
M24	18 7 0	1°54'28	29°22	3°17	21°33	6°26	11°50	14°30	22°24	6°50	12° 5	14° 3	14°47	20° 3	1°18
T 25	18 10 57	2°51'39	11A12	2°41	22°41	6°52	11°58	14°38	22°27	6°50	12° 5	14° 2	14°44	20° 9	1°17
W26	18 14 53	3°48'49	23° 0	2° 5	23°50	7°19	12° 5	14°45	22°31	6°51	12° 6	14° 0	14°40	20°16	1°16
T 27	18 18 50	4°45'59	4Z50	1°31	24°58	7°45	12°12	14°53	22°35	6°51	12° 7	14° 0	14°37	20°23	1°14
F 28	18 22 46	5°43'09	16°42	0°57	26° 7	8°12	12°18	15° 0	22°38	6°51	12° 8	14°D 0	14°34	20°29	1°13
S 29	18 26 43	6°40'19	28°40	0°27	27°15	8°40	12°25	15° 8	22°42	6°51	12° 9	14° 0	14°31	20°36	1°12
S 30	18 30 40	7E37'29	10A46	29II58	28B24	9A 7	12Y32	15II15	22E45	6A52	12B10	14Z 1	14Z28	20A43	1K10

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	21n59	21s34	0n29	24n44	1n17	7n55	2s17	1n17	0n35	2n15	1s13	20n49	1s24	22n18	0n29	1s16	1n36	0n49	15s15	22s43	22s32	25s21	5s22	6n 0
S 2	22 8 18 20	1 33 24 33	1 7 8 17	2 18 1 8	0 33 2 18	1 13 20 50	1 24 22 18	0 29 1 16	1 36 0 50	15 15 22 43	22 32 25 21	5 21 6 1												
M 3	22 15 14 17	2 34 24 20	0 56 8 39	2 19 1 0	0 31 2 22	1 13 20 51	1 24 22 17	0 29 1 16	1 36 0 50	15 15 22 43	22 32 25 21	5 21 6 1												
T 4	22 23 9 35	3 29 24 7	0 44 9 2	2 20 0 51	0 29 2 26	1 13 20 52	1 24 22 17	0 29 1 16	1 36 0 50	15 15 22 43	22 33 25 21	5 21 6 1												
W 5	22 30 4 23	4 15 23 53	0 32 9 24	2 21 0 42	0 27 2 30	1 13 20 54	1 24 22 16	0 29 1 16	1 36 0 50	15 16 22 43	22 33 25 20	5 20 6 1												
T 6	22 37 1n 9	4 50 23 39	0 19 9 46	2 21 0 33	0 26 2 33	1 14 20 55	1 24 22 16	0 29 1 16	1 36 0 50	15 16 22 43	22 34 25 20	5 20 6 2												
F 7	22 43 6 47	5 10 23 24	0 5 10 8	2 22 0 23	0 24 2 37	1 14 20 56	1 24 22 15	0 29 1 16	1 36 0 51	15 16 22 43	22 34 25 20	5 20 6 2												
S 8	22 49 12 18	5 13 23 8	0s10	10 30	2 23 0 14	0 22 2 40	1 14 20 57	1 24 22 15	0 29 1 15	1 36 0 51	15 16 22 43	22 34 25 20	5 19 6 2											
S 9	22 55 17 19	4 57 22 52	0 25 10 52	2 23 0 4	0 20 2 44	1 14 20 58	1 24 22 14	0 29 1 15	1 36 0 51	15 16 22 43	22 35 25 20	5 19 6 3												
M10	23 0 21 27	4 21 22 36	0 40 11 14	2 23 0s 5	0 19 2 47	1 14 20 59	1 24 22 14	0 29 1 15	1 36 0 51	15 16 22 44	22 35 25 19	5 19 6 3												
T 11	23 4 24 13	3 26 22 20	0 56 11 35	2 24 0 15	0 17 2 51	1 15 21 0	1 24 22 13	0 29 1 15	1 36 0 51	15 16 22 44	22 35 25 19	5 19 6 3												
W12	23 9 25 15	2 17 22 4	1 12 11 57	2 24 0 25	0 15 2 54	1 15 21 1	1 24 22 13	0 29 1 15	1 36 0 51	15 17 22 44	22 36 25 19	5 19 6 4												
T 13	23 13 24 24	0 58 21 48	1 28 12 18	2 24 0 36	0 14 2 57	1 15 21 2	1 24 22 12	0 29 1 15	1 36 0 52	15 17 22 44	22 36 25 19	5 19 6 4												
F 14	23 16 21 47	0s25 21 31	1 45 12 40	2 23 0 46	0 12 3 1	1 15 21 3	1 24 22 12	0 29 1 15	1 36 0 52	15 17 22 45	22 37 25 19	5 18 6 4												
S 15	23 19 17 46	1 44 21 15	2 2 13 1	2 23 0 56	0 11 3 4	1 16 21 4	1 24 22 11	0 29 1 15	1 36 0 52	15 17 22 44	22 37 25 18	5 18 6 5												
S 16	23 22 12 48	2 55 21 0	2 18 13 21	2 23 1 7	0 9 3 7	1 16 21 5	1 24 22 11	0 29 1 15	1 36 0 52	15 17 22 44	22 37 25 18	5 18 6 5												
M17	23 24 7 19	3 53 20 44	2 35 13 42	2 22 1 18	0 7 3 10	1 16 21 6	1 23 22 10	0 29 1 15	1 36 0 52	15 18 22 44	22 38 25 18	5 18 6 5												
T 18	23 26 1 40	4 36 20 30	2 50 14 2	2 22 1 29	0 6 3 13	1 16 21 7	1 23 22 10	0 29 1 15	1 35 0 52	15 18 22 44	22 38 25 18	5 18 6 5												
W19	23 27 3s53	5 4 20 15	3 6 14 22	2 21 1 40	0 4 3 16	1 17 21 8	1 23 22 9	0 29 1 15	1 35 0 52	15 18 22 44	22 38 25 17	5 18 6 6												
T 20	23 29 9 8	5 16 20 2	3 21 14 42	2 20 1 51	0 3 3 19	1 17 21 9	1 23 22 8	0 29 1 15	1 35 0 52	15 18 22 44	22 39 25 17	5 18 6 6												
F 21	23 29 13 53	5 12 19 49	3 35 15 2	2 20 2 2	0 1 3 22	1 17 21 10	1 23 22 8	0 29 1 15	1 35 0 53	15 18 22 44	22 39 25 17	5 18 6 6												
S 22	23 29 17 59	4 55 19 37	3 48 15 21	2 19 2 13	0 0 3 25	1 17 21 11	1 23 22 7	0 29 1 15	1 35 0 53	15 19 22 44	22 39 25 17	5 18 6 7												
S 23	23 29 21 18	4 24 19 26	4 0 15 41	2 18 2 25	0s 1 3 27	1 18 21 12	1 23 22 7	0 29 1 16	1 35 0 53	15 19 22 45	22 40 25 16	5 18 6 7												
M24	23 29 23 41	3 43 19 17	4 10 15 59	2 17 2 36	0 3 3 30	1 18 21 13	1 23 22 6	0 29 1 16	1 35 0 53	15 19 22 45	22 40 25 16	5 19 6 7												
T 25	23 27 25 0	2 52 19 8</																						

SWISS EPHEMERIS for the year 1619

JULY 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	18 34 36	8♄34'39	23♋ 1	29°R33	29♃33	9♂35	12♃38	15♁23	22♄49	6♁52	12♃11	14♃ 1	14♃24	20♃49	1°R 9
T 2	18 38 33	9°31'50	5♋30	29♁12	0♁42	10° 3	12°44	15°30	22°52	6°53	12°12	14° 2	14°21	20°56	1♁ 8
W 3	18 42 29	10°29'01	18°14	28°55	1°51	10°32	12°50	15°38	22°56	6°53	12°12	14° 2	14°18	21° 3	1° 6
T 4	18 46 26	11°26'12	1♃16	28°42	3° 0	11° 0	12°56	15°45	23° 0	6°54	12°13	14° 2	14°15	21° 9	1° 4
F 5	18 50 22	12°23'23	14°40	28°34	4°10	11°29	13° 2	15°52	23° 3	6°54	12°14	14°R 2	14°12	21°16	1° 3
S 6	18 54 19	13°20'36	28°26	28°D31	5°19	11°59	13° 7	16° 0	23° 7	6°55	12°15	14° 2	14° 9	21°23	1° 1
S 7	18 58 15	14°17'48	12♃35	28°32	6°29	12°28	13°13	16° 7	23°10	6°55	12°15	14°D 2	14° 5	21°29	0°59
M 8	19 2 12	15°15'02	27° 5	28°40	7°38	12°58	13°18	16°14	23°14	6°56	12°16	14° 2	14° 2	21°36	0°57
T 9	19 6 9	16°12'16	11♁53	28°52	8°48	13°28	13°23	16°21	23°18	6°56	12°17	14° 2	13°59	21°43	0°56
W10	19 10 5	17° 9'30	26°53	29°10	9°57	13°58	13°28	16°28	23°21	6°57	12°18	14° 3	13°56	21°49	0°54
T 11	19 14 2	18° 6'45	11♄56	29°33	11° 7	14°29	13°32	16°35	23°25	6°58	12°18	14°R 3	13°53	21°56	0°52
F 12	19 17 58	19° 4'01	26°55	0♄ 2	12°17	14°59	13°37	16°43	23°29	6°59	12°19	14° 3	13°50	22° 3	0°50
S 13	19 21 55	20° 1'16	11♁40	0°36	13°27	15°30	13°41	16°50	23°32	6°59	12°19	14° 2	13°46	22° 9	0°48
S 14	19 25 51	20°58'32	26° 6	1°16	14°37	16° 1	13°45	16°57	23°36	7° 0	12°20	14° 2	13°43	22°16	0°46
M15	19 29 48	21°55'49	10♁ 8	2° 1	15°47	16°33	13°49	17° 3	23°40	7° 1	12°21	14° 1	13°40	22°23	0°44
T 16	19 33 44	22°53'05	23°43	2°52	16°57	17° 5	13°53	17°10	23°43	7° 2	12°21	14° 0	13°37	22°29	0°41
W17	19 37 41	23°50'22	6♁52	3°47	18° 7	17°36	13°57	17°17	23°47	7° 3	12°22	13°59	13°34	22°36	0°39
T 18	19 41 38	24°47'39	19°38	4°48	19°18	18° 9	14° 0	17°24	23°51	7° 4	12°22	13°D59	13°30	22°43	0°37
F 19	19 45 34	25°44'57	2♁ 4	5°54	20°28	18°41	14° 3	17°31	23°54	7° 5	12°23	13°59	13°27	22°49	0°35
S 20	19 49 31	26°42'14	14°13	7° 5	21°39	19°13	14° 6	17°37	23°58	7° 6	12°23	13°59	13°24	22°56	0°32
S 21	19 53 27	27°39'33	26°12	8°21	22°49	19°46	14° 9	17°44	24° 2	7° 7	12°24	14° 0	13°21	23° 3	0°30
M22	19 57 24	28°36'52	8♁ 3	9°42	24° 0	20°19	14°12	17°51	24° 6	7° 8	12°24	14° 1	13°18	23° 9	0°28
T 23	20 1 20	29°34'11	19°51	11° 8	25°10	20°52	14°14	17°57	24° 9	7° 9	12°25	14° 3	13°15	23°16	0°25
W24	20 5 17	0♁31'31	1♃40	12°38	26°21	21°25	14°16	18° 4	24°13	7°10	12°25	14° 4	13°11	23°22	0°23
T 25	20 9 13	1°28'52	13°34	14°12	27°32	21°59	14°19	18°10	24°16	7°11	12°25	14°R 4	13° 8	23°29	0°20
F 26	20 13 10	2°26'14	25°33	15°51	28°43	22°33	14°20	18°17	24°20	7°12	12°26	14° 4	13° 5	23°36	0°18
S 27	20 17 7	3°23'36	7♁42	17°33	29°54	23° 7	14°22	18°23	24°24	7°13	12°26	14° 2	13° 2	23°42	0°15
S 28	20 21 3	4°20'59	20° 1	19°19	1♄ 5	23°41	14°24	18°29	24°27	7°14	12°27	14° 0	12°59	23°49	0°13
M29	20 25 0	5°18'23	2♁32	21° 8	2°16	24°15	14°25	18°35	24°31	7°16	12°27	13°57	12°56	23°56	0°10
T 30	20 28 56	6°15'48	15°16	23° 0	3°27	24°49	14°26	18°42	24°35	7°17	12°27	13°54	12°52	24° 2	0° 7
W31	20 32 53	7♁13'14	28♁14	24♄55	4♄38	25♁24	14♃27	18♁48	24♄38	7♁18	12♃27	13♄51	12♃49	24♃ 9	0♁ 5

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	23n13	10s43	3n20	18n45	4s45	18n 2	2s 7	3s59	0s12	3n47	1s20	21n19	1s23	22n 2	0n29	1s17	1n35	0n53	15s21	22s45	22s43	25s14	5s20	6n 9
T 2	23 9 5 39	4 9 18 46	4 43 18 18	2 5 4 12	0 13 3 49	1 20 21 19	1 23 22 1	0 29 1 17	1 35 0 53	15 21 22 45	22 43 25 13	5 20 6 9												
W 3	23 4 0 16	4 46 18 48	4 41 18 34	2 3 4 24	0 15 3 51	1 20 21 20	1 23 22 1	0 29 1 17	1 35 0 53	15 21 22 45	22 43 25 13	5 21 6 10												
T 4	23 0 5n15	5 10 18 52	4 37 18 49	2 1 4 36	0 16 3 53	1 20 21 21	1 23 22 0	0 29 1 18	1 35 0 53	15 21 22 45	22 44 25 13	5 21 6 10												
F 5	22 55 10 40	5 18 18 58	4 31 19 4	1 59 4 49	0 17 3 55	1 21 21 22	1 23 22 0	0 29 1 18	1 35 0 53	15 21 22 45	22 44 25 12	5 21 6 10												
S 6	22 49 15 43	5 8 19 4	4 25 19 19	1 57 5 1	0 18 3 57	1 21 21 23	1 23 21 59	0 29 1 18	1 35 0 53	15 22 22 45	22 44 25 12	5 22 6 10												
S 7	22 43 20 4	4 39 19 12	4 17 19 33	1 55 5 14	0 20 3 59	1 21 21 23	1 23 21 58	0 29 1 18	1 35 0 53	15 22 22 45	22 45 25 12	5 22 6 11												
M 8	22 37 23 19	3 52 19 21	4 8 19 46	1 53 5 27	0 21 4 1	1 21 21 24	1 23 21 58	0 29 1 19	1 35 0 53	15 22 22 45	22 45 25 11	5 22 6 11												
T 9	22 30 25 4	2 49 19 31	3 58 19 59	1 51 5 40	0 22 4 2	1 22 21 25	1 23 21 57	0 29 1 19	1 34 0 53	15 22 22 45	22 45 25 11	5 23 6 11												
W10	22 23 25 1	1 34 19 42	3 48 20 12	1 48 5 52	0 23 4 4	1 22 21 25	1 23 21 57	0 29 1 19	1 34 0 53	15 23 22 45	22 46 25 10	5 23 6 11												
T 11	22 16 23 9	0 12 19 53	3 36 20 24	1 46 6 5	0 24 4 5	1 22 21 26	1 23 21 56	0 29 1 20	1 34 0 53	15 23 22 45	22 46 25 10	5 24 6 11												
F 12	22 8 19 39	1s11 20 5	3 24 20 36	1 44 6 18	0 25 4 7	1 22 21 27	1 23 21 55	0 29 1 20	1 34 0 53	15 23 22 45	22 46 25 10	5 24 6 12												
S 13	22 0 14 57	2 28 20 18	3 11 20 47	1 41 6 31	0 26 4 8	1 23 21 28	1 23 21 55	0 29 1 20	1 34 0 53	15 24 22 45	22 47 25 9	5 25 6 12												
S 14	21 51 9 30	3 33 20 31	2 58 20 58	1 39 6 44	0 27 4 10	1 23 21 28	1 23 21 54	0 29 1 21	1 34 0 53	15 24 22 45	22 47 25 9	5 25 6 12												
M15	21 42 3 43	4 24 20 44	2 45 21 8	1 36 6 57	0 29 4 11	1 23 21 29	1 23 21 53	0 29 1 21	1 34 0 52	15 24 22 45	22 47 25 8	5 26 6 12												
T 16	21 33 2s 3	4 58 20 57	2 31 21 17	1 34 7 11	0 30 4 12	1 24 21 30	1 23 21 53	0 29 1 21	1 34 0 52	15 24 22 45	22 47 25 8	5 26 6 12												
W17	21 23 7 33	5 15 21 10	2 17 21 26	1 31 7 24	0 31 4 13	1 24 21 30	1 23 21 52	0 29 1 22	1 34 0 52	15 25 22 45	22 48 25 7	5 27 6 13												
T 18	21 13 12 34	5 16 21 22	2 2 21 35	1 29 7 37	0 32 4 14	1 24 21 31	1 23 21 52	0 29 1 22	1 34 0 52	15 25 22 45	22 48 25 7	5 28 6 13												
F 19	21 2 16 55	5 2 21 34	1 48 21 43	1 26 7 50	0 33 4 15	1 24 21 31	1 23 21 51	0 29 1 23	1 34 0 52	15 25 22 45	22 48 25 7	5 28 6 13												
S 20	20 52 20 30	4 34 21 45	1 33 21 50	1 23 8 4	0 34 4 16	1 25 21 32	1 23 21 50	0 29 1 23	1 34 0 52	15 25 22 45	22 49 25 6	5 29 6 13												
S 21	20 40 23 9	3 55 21 55	1 19 21 57	1 21 8 17	0 35 4 17	1 25 21 33	1 23 21 50	0 29 1 23	1 34 0 52	15 26 22 45	22 49 25 6	5 30 6 13												
M22	20 29 24 46	3 7 22 4	1 4 22 3	1 18 8 30	0 36 4 18	1 25 21 33	1 23 21 49	0 29 1 24	1 34 0 52	15 26 22 45	22 49 25 5	5 30 6 13												
T 23	20 17 25 16	2 10 22 11	0 50 22 9	1 15 8 44	0 37 4 19	1 26 21 34	1 23 21 48	0 29 1 24	1 34 0 51	15 26 22 45	22 50 25 5	5 31 6 14												
W24	20 5 24 37	1 8 22 17	0 36 22 14	1 12 8 57	0 38 4 19	1 26 21 34	1 23 21 48	0 29 1 25	1 34 0 51	15 27 22 45	22 50 25 4	5 32 6 14												
T 25	19 52 22 51	0 3 22 21	0 23 22 19	1 9 9 11	0 39 4 20	1 26 21 35	1 23 21 47	0 29 1 25	1 34 0 51	15 27 22 45	22 50 25 4	5 32 6 14												
F 26	19 39 20 2	1n 3 22 23	0 10 22 23	1 6 9 24	0 40 4 20	1 26 21 35	1 23 21 47	0 29 1 26	1 34 0 51	15 27 22 45	22 51 25 3	5 33 6 14												
S 27	19 26 16 20	2 7 22 23	0n 3 22 26	1 3 9 38	0 40 4 21	1 27 21 36	1 23 21 46	0 29 1 26	1 34 0 51	15 27 22 45	22 51 25 3	5 34 6 14												
S 28	19 13 11 54	3 6 22 21	0 15 22 29	1 1 9 51	0 41 4 21	1 27 21 36	1 23 21 45	0 29 1 27	1 34 0 51	15 28 22 45	22 51 25 2	5 35 6 14												
M29	18 59 6 55	3 56 22 16	0 27 22 31	0 58 10 5	0 42 4 21	1 27 21 37	1 23 21 45	0 29 1 27	1 34 0 50	15 28 22 45	22 52 25 2	5 35 6 14												
T 30	18 45 1 34	4 36 22 8	0 37 22 32	0 55 10 18	0 43 4 21	1 28 21 37	1 23 21 44	0 29 1 28	1 34 0 50	15 28 22 46	22 52 25 1	5 36 6 15												
W31	18n30	3n56	5n 3	21n58	0n48	22n33	0s52	10s32	0s44	4n22	1s28	21n38	1s23	21n43	0n29	1s28	1n34	0n50	15s29	22s46	22s52	25s 1	5s37	6n15

Julian Day Number = 2312568.5, Delta T = 121.85 sec
 Ecliptic obliquity = 23°29'21, Nutation = 0°00'17
 Ayanamsha: Fagan/Bradley = 19°25'47, Lahiri = 18°32'47Greg. Calendar

SWISS EPHEMERIS for the year 1619

AUGUST 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	20 36 49	8♏10'42	11♏26	26♌52	5♌50	25♌59	14♏28	18♏54	24♌42	7♌20	12♌28	13♏48	12♌46	24♌16	0°R 2
F 2	20 40 46	9° 8'11	24°54	28°51	7° 1	26°34	14°28	19° 0	24°45	7°21	12°28	13♌46	12°43	24°22	29♌59
S 3	20 44 42	10° 5'41	8♌38	0♏52	8°12	27° 9	14°29	19° 6	24°49	7°22	12°28	13°D45	12°40	24°29	29°56
S 4	20 48 39	11° 3'13	22°37	2°53	9°24	27°44	14°R29	19°12	24°53	7°24	12°28	13°46	12°36	24°36	29°54
M 5	20 52 36	12° 0'46	6♏52	4°56	10°36	28°20	14°29	19°17	24°56	7°25	12°28	13°47	12°33	24°42	29°51
T 6	20 56 32	12°58'21	21°20	6°59	11°47	28°55	14°29	19°23	25° 0	7°27	12°29	13°48	12°30	24°49	29°48
W 7	21 0 29	13°55'57	5♌58	9° 2	12°59	29°31	14°28	19°29	25° 3	7°28	12°29	13°49	12°27	24°56	29°45
T 8	21 4 25	14°53'34	20°42	11° 5	14°11	0♏ 7	14°27	19°34	25° 7	7°30	12°29	13°R49	12°24	25° 2	29°42
F 9	21 8 22	15°51'13	5♏24	13° 8	15°23	0°43	14°27	19°40	25°10	7°31	12°29	13°48	12°21	25° 9	29°40
S 10	21 12 18	16°48'53	19°58	15°11	16°35	1°20	14°26	19°45	25°14	7°33	12°29	13°45	12°17	25°16	29°37
S 11	21 16 15	17°46'34	4♏17	17°12	17°47	1°56	14°24	19°51	25°17	7°34	12°29	13°41	12°14	25°22	29°34
M12	21 20 11	18°44'17	18°17	19°13	18°59	2°33	14°23	19°56	25°21	7°36	12°29	13°35	12°11	25°29	29°31
T 13	21 24 8	19°42'00	1♌53	21°13	20°11	3° 9	14°21	20° 1	25°24	7°37	12°R29	13°30	12° 8	25°36	29°28
W14	21 28 5	20°39'45	15° 5	23°12	21°23	3°46	14°19	20° 6	25°28	7°39	12°29	13°25	12° 5	25°42	29°25
T 15	21 32 1	21°37'31	27°54	25° 9	22°35	4°23	14°17	20°11	25°31	7°41	12°29	13°21	12° 2	25°49	29°22
F 16	21 35 58	22°35'18	10♏21	27° 6	23°47	5° 1	14°15	20°16	25°34	7°42	12°29	13°18	11°58	25°55	29°19
S 17	21 39 54	23°33'07	22°31	29° 1	25° 0	5°38	14°13	20°21	25°38	7°44	12°29	13°D17	11°55	26° 2	29°16
S 18	21 43 51	24°30'56	4♌29	0♏55	26°12	6°16	14°10	20°26	25°41	7°46	12°29	13°18	11°52	26° 9	29°13
M19	21 47 47	25°28'47	16°20	2°47	27°25	6°53	14° 7	20°31	25°44	7°48	12°29	13°19	11°49	26°15	29°10
T 20	21 51 44	26°26'39	28° 8	4°39	28°37	7°31	14° 4	20°36	25°48	7°49	12°28	13°21	11°46	26°22	29° 7
W21	21 55 40	27°24'33	9♌59	6°29	29°50	8° 9	14° 1	20°40	25°51	7°51	12°28	13°R22	11°42	26°29	29° 4
T 22	21 59 37	28°22'27	21°57	8°17	1♏ 2	8°47	13°58	20°45	25°54	7°53	12°28	13°21	11°39	26°35	29° 1
F 23	22 3 34	29°20'24	4♌ 5	10° 5	2°15	9°25	13°54	20°49	25°57	7°55	12°28	13°19	11°36	26°42	28°58
S 24	22 7 30	0♏18'21	16°26	11°51	3°28	10° 4	13°50	20°54	26° 1	7°57	12°28	13°15	11°33	26°49	28°55
S 25	22 11 27	1°16'20	29° 2	13°35	4°41	10°42	13°46	20°58	26° 4	7°58	12°27	13° 9	11°30	26°55	28°52
M26	22 15 23	2°14'21	11♌53	15°19	5°53	11°21	13°42	21° 2	26° 7	8° 0	12°27	13° 1	11°27	27° 2	28°49
T 27	22 19 20	3°12'23	24°59	17° 1	7° 6	12° 0	13°38	21° 6	26°10	8° 2	12°27	12°52	11°23	27° 9	28°46
W28	22 23 16	4°10'27	8♏19	18°42	8°19	12°39	13°33	21°10	26°13	8° 4	12°27	12°44	11°20	27°15	28°43
T 29	22 27 13	5° 8'33	21°49	20°21	9°32	13°18	13°29	21°14	26°16	8° 6	12°26	12°36	11°17	27°22	28°40
F 30	22 31 9	6° 6'41	5♌31	22° 0	10°45	13°57	13°24	21°18	26°19	8° 8	12°26	12°31	11°14	27°29	28°37
S 31	22 35 6	7♏ 4'51	19♌22	23♏37	11♏59	14♏36	13°V19	21♏22	26♌22	8♌10	12♌26	12♌27	11♌11	27♌35	28♌34

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat								
T 1	18n16	9n21	5n14	21n46	0n57	22n33	0s49	10s45	0s45	4n22	1s28	21n38	1s23	21n43	0n29								
F 2	18 1 14 26	5 8 21 30	1 6 22 33	0 46 10 59	0 46 4 22	1 28 21 39	1 23 21 42	0 29 1 29	1 33 0 50	15 29 22 47	22 53 24 59	5 39 6 15											
S 3	17 45 18 54	4 45 21 12	1 13 22 32	0 43 11 12	0 47 4 21	1 29 21 39	1 23 21 41	0 29 1 30	1 33 0 49	15 30 22 47	22 53 24 59	5 40 6 15											
S 4	17 30 22 25	4 5 20 51	1 20 22 30	0 40 11 26	0 47 4 21	1 29 21 40	1 23 21 41	0 29 1 31	1 33 0 49	15 30 22 47	22 53 24 58	5 41 6 15											
M 5	17 14 24 36	3 9 20 28	1 26 22 27	0 37 11 39	0 48 4 21	1 29 21 40	1 23 21 40	0 29 1 31	1 33 0 49	15 30 22 46	22 54 24 58	5 41 6 15											
T 6	16 57 25 12	2 0 20 2	1 31 22 24	0 34 11 53	0 49 4 21	1 30 21 41	1 23 21 40	0 29 1 32	1 33 0 49	15 30 22 46	22 54 24 57	5 42 6 15											
W 7	16 41 24 4	0 43 19 35	1 36 22 21	0 31 12 6	0 50 4 20	1 30 21 41	1 24 21 39	0 29 1 32	1 33 0 48	15 31 22 46	22 54 24 57	5 43 6 15											
T 8	16 24 21 16	0s38 19 4	1 39 22 17	0 28 12 20	0 51 4 20	1 30 21 41	1 24 21 38	0 29 1 33	1 33 0 48	15 31 22 46	22 55 24 56	5 44 6 15											
F 9	16 7 17 6	1 55 18 32	1 42 22 12	0 25 12 33	0 51 4 19	1 30 21 42	1 24 21 38	0 29 1 34	1 33 0 48	15 31 22 46	22 55 24 55	5 45 6 15											
S 10	15 50 11 56	3 5 17 59	1 44 22 6	0 22 12 47	0 52 4 18	1 31 21 42	1 24 21 37	0 30 1 34	1 33 0 48	15 32 22 47	22 55 24 55	5 46 6 15											
S 11	15 32 6 13	4 1 17 23	1 45 22 0	0 19 13 0	0 53 4 18	1 31 21 43	1 24 21 36	0 30 1 35	1 33 0 47	15 32 22 47	22 55 24 54	5 47 6 15											
M12	15 14 0 19	4 42 16 46	1 46 21 53	0 16 13 13	0 54 4 17	1 31 21 43	1 24 21 36	0 30 1 36	1 33 0 47	15 32 22 48	22 56 24 54	5 48 6 15											
T 13	14 56 5s25	5 5 16 8	1 46 21 46	0 13 13 27	0 54 4 16	1 31 21 43	1 24 21 35	0 30 1 36	1 33 0 47	15 32 22 48	22 56 24 53	5 49 6 15											
W14	14 38 10 44	5 11 15 28	1 45 21 38	0 10 13 40	0 55 4 15	1 32 21 44	1 24 21 35	0 30 1 37	1 33 0 47	15 33 22 49	22 56 24 52	5 50 6 15											
T 15	14 20 15 26	5 1 14 47	1 44 21 29	0 7 13 53	0 56 4 14	1 32 21 44	1 24 21 34	0 30 1 38	1 33 0 46	15 33 22 49	22 57 24 52	5 51 6 15											
F 16	14 1 19 20	4 38 14 6	1 42 21 20	0 4 14 7	0 57 4 13	1 32 21 44	1 24 21 33	0 30 1 38	1 33 0 46	15 33 22 49	22 57 24 51	5 52 6 15											
S 17	13 42 22 20	4 2 13 23	1 39 21 10	0 1 14 20	0 57 4 12	1 32 21 44	1 24 21 33	0 30 1 39	1 33 0 46	15 34 22 49	22 57 24 50	5 53 6 15											
S 18	13 23 24 17	3 16 12 40	1 36 20 59	0n 2 14 33	0 58 4 10	1 33 21 45	1 24 21 32	0 30 1 40	1 33 0 45	15 34 22 49	22 57 24 50	5 54 6 15											
M19	13 3 25 8	2 22 11 57	1 33 20 48	0 5 14 46	0 59 4 9	1 33 21 45	1 24 21 32	0 30 1 41	1 33 0 45	15 34 22 49	22 58 24 49	5 55 6 15											
T 20	12 44 24 50	1 22 11 12	1 29 20 37	0 8 14 59	0 59 4 8	1 33 21 45	1 24 21 31	0 30 1 41	1 33 0 45	15 35 22 49	22 58 24 48	5 56 6 15											
W21	12 24 23 25	0 18 10 28	1 25 20 24	0 11 15 12	1 0 4 6	1 34 21 46	1 24 21 30	0 30 1 42	1 33 0 44	15 35 22 49	22 58 24 48	5 57 6 15											
T 22	12 4 20 56	0n46 9 43	1 20 20 11	0 13 15 25	1 1 4 5	1 34 21 46	1 24 21 30	0 30 1 43	1 33 0 44	15 35 22 49	22 59 24 47	5 58 6 15											
F 23	11 44 17 30	1 50 8 58	1 15 19 58	0 16 15 38	1 1 4 3	1 34 21 46	1 24 21 29	0 30 1 43	1 33 0 44	15 35 22 49	22 59 24 46	5 59 6 15											
S 24	11 23 13 15	2 49 8 12	1 9 19 44	0 19 15 51	1 2 4 1	1 34 21 46	1 24 21 29	0 30 1 44	1 33 0 43	15 36 22 50	22 59 24 46	6 0 6 15											
S 25	11 3 8 23	3 41 7 27	1 4 19 29	0 22 16 3	1 3 4 0	1 34 21 47	1 24 21 28	0 30 1 45	1 33 0 43	15 36 22 50	22 59 24 45	6 2 6 15											
M26	10 42 3 4	4 23 6 41	0 58 19 14	0 24 16 16	1 3 3 58	1 35 21 47	1 25 21 28	0 30 1 46	1 33 0 43	15 36 22 51	23 0 24 44	6 3 6 15											
T 27	10 21 2n28	4 52 5 56	0 52 18 58	0 27 16 29	1 4 3 56	1 35 21 47	1 25 21 27	0 30 1 46	1 33 0 42	15 37 22 52	23 0 24 44	6 4 6 15											
W28	10 0 7 58	5 6 5 10	0 45 18 42	0 30 16 41	1 4 3 54	1 35 21 47	1 25 21 26	0 30 1 47	1 33 0 42	15 37 22 53	23 0 24 43	6 5 6 15											
T 29	9 39 13 12	5 3 4 25	0 38 18 25	0 32 16 54	1 5 3 52	1 35 21 47	1 25 21 26	0 30 1 48	1 33 0 42	15 37 22 53	23 1 24 42	6 6 6 15											
F 30	9 17 17 49	4 42 3 40	0 32 18 8	0 35 17 6	1 6 3 50	1 36 21 48	1 25 21 25	0 30 1 49	1 33 0 41	15 37 22 54	23 1 24 41	6 7 6 15											
S 31	8n56	21n33	4n 6	2n55	0n24	17n50	0n37	17s 6	3n48	1s36	21n48	1s25	21n25	0n30	1s50	1n33	0n41	15s38	22s54	23s 1	24s41	6s 8	6n14

Julian Day Number = 2312599.5, Delta T = 121.87 sec
 Ecliptic obliquity = 23°29'22, Nutation = 0°00'18
 Ayanamsha: Fagan/Bradley = 19°25'51, Lahiri = 18°32'51 Greg. Calendar

SWISS EPHEMERIS for the year 1619

SEPTEMBER 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	22 39 3	8 ^m 3'03	3 ^{II} 21	25 ^m 13	13 ^Ω 12	15 ^m 15	13 [°] R14	21 ^{II} 25	26 ^Ω 25	8 ^Ω 12	12 [°] R25	12 [°] D26	11 [♁] 8	27 [♁] 42	28 [°] R31
M 2	22 42 59	9 [°] 1'18	17 [°] 27	26 [°] 48	14 [°] 25	15 [°] 55	13 [°] Y 9	21 [°] 29	26 [°] 28	8 [°] 14	12 [°] Y25	12 [°] Z26	11 [°] 4	27 [°] 49	28 [°] 28
T 3	22 46 56	9 [°] 59'34	1 ^Ω 39	28 [°] 22	15 [°] 38	16 [°] 35	13 [°] 3	21 [°] 32	26 [°] 31	8 [°] 16	12 [°] 24	12 [°] 27	11 [°] 1	27 [°] 55	28 [°] 26
W 4	22 50 52	10 [°] 57'53	15 [°] 55	29 [°] 54	16 [°] 52	17 [°] 14	12 [°] 58	21 [°] 36	26 [°] 34	8 [°] 18	12 [°] 24	12 [°] R27	10 [°] 58	28 [°] 2	28 [°] 23
T 5	22 54 49	11 [°] 56'13	0 ^Ω 14	1 ^Ω 25	18 [°] 5	17 [°] 54	12 [°] 52	21 [°] 39	26 [°] 37	8 [°] 20	12 [°] 23	12 [°] 26	10 [°] 55	28 [°] 8	28 [°] 20
F 6	22 58 45	12 [°] 54'36	14 [°] 31	2 [°] 56	19 [°] 19	18 [°] 34	12 [°] 46	21 [°] 42	26 [°] 40	8 [°] 22	12 [°] 23	12 [°] 22	10 [°] 52	28 [°] 15	28 [°] 17
S 7	23 2 42	13 [°] 53'00	28 [°] 43	4 [°] 25	20 [°] 32	19 [°] 14	12 [°] 40	21 [°] 45	26 [°] 43	8 [°] 24	12 [°] 22	12 [°] 16	10 [°] 48	28 [°] 22	28 [°] 14
S 8	23 6 38	14 [°] 51'26	12 ^m 44	5 [°] 53	21 [°] 46	19 [°] 55	12 [°] 34	21 [°] 48	26 [°] 45	8 [°] 26	12 [°] 22	12 [°] 7	10 [°] 45	28 [°] 28	28 [°] 11
M 9	23 10 35	15 [°] 49'55	26 [°] 31	7 [°] 19	22 [°] 59	20 [°] 35	12 [°] 27	21 [°] 51	26 [°] 48	8 [°] 28	12 [°] 21	11 [°] 57	10 [°] 42	28 [°] 35	28 [°] 8
T 10	23 14 32	16 [°] 48'25	9 ^Ω 59	8 [°] 45	24 [°] 13	21 [°] 15	12 [°] 21	21 [°] 54	26 [°] 51	8 [°] 30	12 [°] 21	11 [°] 46	10 [°] 39	28 [°] 42	28 [°] 6
W11	23 18 28	17 [°] 46'56	23 [°] 6	10 [°] 9	25 [°] 27	21 [°] 56	12 [°] 14	21 [°] 56	26 [°] 53	8 [°] 32	12 [°] 20	11 [°] 36	10 [°] 36	28 [°] 48	28 [°] 3
T 12	23 22 25	18 [°] 45'30	5 ^m 52	11 [°] 32	26 [°] 41	22 [°] 37	12 [°] 7	21 [°] 59	26 [°] 56	8 [°] 35	12 [°] 20	11 [°] 27	10 [°] 33	28 [°] 55	28 [°] 0
F 13	23 26 21	19 [°] 44'05	18 [°] 18	12 [°] 54	27 [°] 54	23 [°] 18	12 [°] 0	22 [°] 1	26 [°] 58	8 [°] 37	12 [°] 19	11 [°] 20	10 [°] 29	29 [°] 2	27 [°] 57
S 14	23 30 18	20 [°] 42'43	0 [♁] 28	14 [°] 14	29 [°] 8	23 [°] 59	11 [°] 54	22 [°] 4	27 [°] 1	8 [°] 39	12 [°] 18	11 [°] 16	10 [°] 26	29 [°] 8	27 [°] 55
S 15	23 34 14	21 [°] 41'22	12 [°] 26	15 [°] 33	0 ^m 22	24 [°] 40	11 [°] 46	22 [°] 6	27 [°] 3	8 [°] 41	12 [°] 18	11 [°] 14	10 [°] 23	29 [°] 15	27 [°] 52
M16	23 38 11	22 [°] 40'02	24 [°] 16	16 [°] 51	1 [°] 36	25 [°] 21	11 [°] 39	22 [°] 8	27 [°] 6	8 [°] 43	12 [°] 17	11 [°] D13	10 [°] 20	29 [°] 22	27 [°] 49
T 17	23 42 7	23 [°] 38'44	6 [♁] 5	18 [°] 7	2 [°] 50	26 [°] 2	11 [°] 32	22 [°] 10	27 [°] 8	8 [°] 45	12 [°] 16	11 [°] R14	10 [°] 17	29 [°] 28	27 [°] 47
W18	23 46 4	24 [°] 37'29	17 [°] 56	19 [°] 22	4 [°] 4	26 [°] 43	11 [°] 25	22 [°] 12	27 [°] 11	8 [°] 47	12 [°] 16	11 [°] 14	10 [°] 13	29 [°] 35	27 [°] 44
T 19	23 50 1	25 [°] 36'14	29 [°] 57	20 [°] 35	5 [°] 18	27 [°] 25	11 [°] 17	22 [°] 14	27 [°] 13	8 [°] 50	12 [°] 15	11 [°] 12	10 [°] 10	29 [°] 42	27 [°] 42
F 20	23 53 57	26 [°] 35'02	12 [♁] 11	21 [°] 46	6 [°] 32	28 [°] 7	11 [°] 10	22 [°] 16	27 [°] 15	8 [°] 52	12 [°] 14	11 [°] 8	10 [°] 7	29 [°] 48	27 [°] 39
S 21	23 57 54	27 [°] 33'51	24 [°] 42	22 [°] 56	7 [°] 47	28 [°] 48	11 [°] 2	22 [°] 17	27 [°] 18	8 [°] 54	12 [°] 14	11 [°] 2	10 [°] 4	29 [°] 55	27 [°] 37
S 22	0 1 50	28 [°] 32'42	7 [♁] 32	24 [°] 3	9 [°] 1	29 [°] 30	10 [°] 54	22 [°] 19	27 [°] 20	8 [°] 56	12 [°] 13	10 [°] 53	10 [°] 1	0 [♁] 1	27 [°] 34
M23	0 5 47	29 [°] 31'35	20 [°] 42	25 [°] 9	10 [°] 15	0 [♁] 12	10 [°] 47	22 [°] 20	27 [°] 22	8 [°] 58	12 [°] 12	10 [°] 42	9 [°] 58	0 [°] 8	27 [°] 32
T 24	0 9 43	0 [♁] 30'30	4 ^Y 11	26 [°] 12	11 [°] 29	0 [°] 54	10 [°] 39	22 [°] 21	27 [°] 24	9 [°] 1	12 [°] 11	10 [°] 30	9 [°] 54	0 [°] 15	27 [°] 30
W25	0 13 40	1 [°] 29'27	17 [°] 56	27 [°] 13	12 [°] 44	1 [°] 36	10 [°] 31	22 [°] 23	27 [°] 26	9 [°] 3	12 [°] 10	10 [°] 18	9 [°] 51	0 [°] 21	27 [°] 27
T 26	0 17 36	2 [°] 28'26	1 [♁] 53	28 [°] 12	13 [°] 58	2 [°] 18	10 [°] 23	22 [°] 24	27 [°] 28	9 [°] 5	12 [°] 10	10 [°] 7	9 [°] 48	0 [°] 28	27 [°] 25
F 27	0 21 33	3 [°] 27'28	15 [°] 58	29 [°] 7	15 [°] 12	3 [°] 0	10 [°] 15	22 [°] 25	27 [°] 30	9 [°] 7	12 [°] 9	9 [°] 58	9 [°] 45	0 [°] 35	27 [°] 23
S 28	0 25 29	4 [°] 26'32	0 ^{II} 8	29 [°] 59	16 [°] 27	3 [°] 43	10 [°] 7	22 [°] 26	27 [°] 32	9 [°] 10	12 [°] 8	9 [°] 52	9 [°] 42	0 [°] 41	27 [°] 20
S 29	0 29 26	5 [°] 25'38	14 [°] 18	0 ^m 49	17 [°] 41	4 [°] 25	9 [°] 59	22 [°] 26	27 [°] 34	9 [°] 12	12 [°] 7	9 [°] 49	9 [°] 39	0 [°] 48	27 [°] 18
M30	0 33 23	6 [♁] 24'46	28 ^{II} 27	1 ^m 35	18 ^m 56	5 [♁] 8	9 ^Y 51	22 ^{II} 27	27 [♁] 36	9 [♁] 14	12 [♁] 6	9 [♁] 48	9 [♁] 35	0 [♁] 55	27 [♁] 16

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	8n34	24n 2	3n14	2n10	0n17	17n31	0n40	17s30	1s 7	3n46	1s36	21n48	1s25	21n24	0n30	1s50	1n33	0n41	15s38	22s54	23s 1	24s40	6s 9	6n14
M 2	8 12 25	3 2 10	1 26	0 10	17 13	0 42	17 42	1 7	3 43	1 36	21 48	1 25	21 24	0 30	1 51	1 33	0 40	15 38	22 54	23 2	24 39	6 10	6 14	
T 3	7 50 24	26 0 58	0 41	0 2	16 53	0 44	17 54	1 8	3 41	1 36	21 48	1 25	21 23	0 30	1 52	1 33	0 40	15 38	22 54	23 2	24 39	6 12	6 14	
W 4	7 28 22	14 0s19	0s 2	0s 5	16 33	0 47	18 6	1 8	3 39	1 37	21 48	1 25	21 23	0 30	1 53	1 33	0 39	15 39	22 54	23 2	24 38	6 13	6 14	
T 5	7 6 18	37 1 34	0 46	0 13	16 13	0 49	18 18	1 9	3 36	1 37	21 48	1 25	21 22	0 30	1 54	1 33	0 39	15 39	22 54	23 2	24 37	6 14	6 14	
F 6	6 44 13	55 2 43	1 29	0 21	15 52	0 51	18 30	1 9	3 34	1 37	21 49	1 25	21 22	0 30	1 55	1 32	0 39	15 39	22 55	23 3	24 36	6 15	6 14	
S 7	6 21 8	30 3 41	2 12	0 29	15 31	0 53	18 41	1 10	3 31	1 37	21 49	1 25	21 21	0 30	1 55	1 32	0 38	15 39	22 55	23 3	24 35	6 16	6 13	
S 8	5 59 2	43 4 25	2 54	0 37	15 9	0 55	18 53	1 10	3 29	1 37	21 49	1 25	21 21	0 30	1 56	1 32	0 38	15 40	22 56	23 3	24 35	6 17	6 13	
M 9	5 36 3s 5	4 53	3 36	0 44	14 47	0 57	19 4	1 11	3 26	1 37	21 49	1 26	21 20	0 30	1 57	1 32	0 37	15 40	22 57	23 3	24 34	6 18	6 13	
T 10	5 13 8 36	5 3 4	17 0	52	14 24	0 59	19 15	1 11	3 23	1 38	21 49	1 26	21 20	0 30	1 58	1 32	0 37	15 40	22 58	23 4	24 33	6 19	6 13	
W11	4 50 13 35	4 57	4 57	1 0	14 1	1 1	19 27	1 12	3 21	1 38	21 49	1 26	21 19	0 30	1 59	1 32	0 37	15 40	22 59	23 4	24 32	6 20	6 13	
T 12	4 27 17 51	4 37	5 37	1 8	13 38	1 3	19 37	1 12	3 18	1 38	21 49	1 26	21 19	0 30	2 0	1 32	0 36	15 41	23 0	23 4	24 31	6 22	6 13	
F 13	4 4 21 12	4 3	6 17	1 16	13 14	1 5	19 48	1 13	3 15	1 38	21 49	1 26	21 18	0 30	2 0	1 32	0 36	15 41	23 0	23 4	24 31	6 23	6 12	
S 14	3 41 23 32	3 19	6 55	1 24	12 50	1 7	19 59	1 13	3 12	1 38	21 49	1 26	21 18	0 30	2 1	1 32	0 35	15 41	23 1	23 5	24 30	6 24	6 12	
S 15	3 18 24 46	2 27	7 33	1 32	12 26	1 8	20 10	1 13	3 9	1 38	21 49	1 26	21 17	0 30	2 2	1 32	0 35	15 41	23 1	23 5	24 29	6 25	6 12	
M16	2 55 24 51	1 29	8 10	1 40	12 1	1 10	20 20	1 14	3 6	1 38	21 49	1 26	21 17	0 30	2 3	1 32	0 35	15 42	23 1	23 5	24 28	6 26	6 12	
T 17	2 32 23 48	0 27	8 47	1 48	11 36	1 12	20 30	1 14	3 4	1 39	21 49	1 26	21 16	0 30	2 4	1 32	0 34	15 42	23 1	23 5	24 27	6 27	6 11	
W18	2 8 21 42	0n36	9 22	1 55	11 10	1 13	20 40	1 15	3 1	1 39	21 49	1 26	21 16	0 30	2 5	1 32	0 34	15 42	23 1	23 6	24 26	6 28	6 11	
T 19	1 45 18 37	1 38	9 57	2 3	10 44	1 14	20 50	1 15	2 58	1 39	21 50	1 26	21 15	0 30	2									

SWISS EPHEMERIS for the year 1619

OCTOBER 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	0 37 19	7♁23'57	12♁32	2♁17	20♁10	5♁50	9°R43	22II27	27♁38	9♁16	12°R 5	9°R48	9♁32	1♁1	27°R14
W 2	0 41 16	8°23'10	26°35	2°55	21°25	6°33	9°V35	22°28	27°39	9°19	12♁ 4	9°R47	9°29	1° 8	27°R12
T 3	0 45 12	9°22'26	10♁33	3°28	22°40	7°16	9°27	22°28	27°41	9°21	12° 4	9°45	9°26	1°15	27°10
F 4	0 49 9	10°21'44	24°26	3°56	23°54	7°59	9°19	22°28	27°43	9°23	12° 3	9°41	9°23	1°21	27° 8
S 5	0 53 5	11°21'04	8♁12	4°19	25° 9	8°42	9°11	22°R28	27°44	9°25	12° 2	9°33	9°19	1°28	27° 6
S 6	0 57 2	12°20'26	21°48	4°35	26°24	9°25	9° 2	22°28	27°46	9°27	12° 1	9°22	9°16	1°35	27° 4
M 7	1 0 58	13°19'50	5♁13	4°45	27°38	10° 8	8°54	22°28	27°47	9°30	12° 0	9°10	9°13	1°41	27° 3
T 8	1 4 55	14°19'17	18°23	4°R49	28°53	10°51	8°46	22°28	27°49	9°32	11°59	8°57	9°10	1°48	27° 1
W 9	1 8 52	15°18'46	1♁17	4°44	0♁ 8	11°35	8°38	22°28	27°50	9°34	11°58	8°44	9° 7	1°54	26°59
T 10	1 12 48	16°18'16	13°54	4°32	1°23	12°18	8°30	22°27	27°52	9°36	11°57	8°32	9° 4	2° 1	26°57
F 11	1 16 45	17°17'49	26°15	4°12	2°38	13° 2	8°23	22°26	27°53	9°39	11°56	8°24	9° 0	2° 8	26°56
S 12	1 20 41	18°17'23	8♁22	3°43	3°53	13°46	8°15	22°26	27°54	9°41	11°55	8°17	8°57	2°14	26°54
S 13	1 24 38	19°16'59	20°18	3° 5	5° 8	14°29	8° 7	22°25	27°55	9°43	11°54	8°14	8°54	2°21	26°53
M14	1 28 34	20°16'37	2♁ 7	2°19	6°23	15°13	7°59	22°24	27°57	9°45	11°53	8°13	8°51	2°28	26°51
T 15	1 32 31	21°16'17	13°54	1°25	7°38	15°57	7°51	22°23	27°58	9°47	11°52	8°D13	8°48	2°34	26°50
W16	1 36 27	22°15'59	25°45	0°23	8°53	16°41	7°44	22°22	27°59	9°50	11°51	8°R13	8°45	2°41	26°49
T 17	1 40 24	23°15'42	7♁45	29♁15	10° 8	17°25	7°36	22°21	28° 0	9°52	11°50	8°12	8°41	2°48	26°47
F 18	1 44 21	24°15'27	20° 0	28° 3	11°23	18° 9	7°29	22°19	28° 1	9°54	11°49	8° 9	8°38	2°54	26°46
S 19	1 48 17	25°15'14	2♁34	26°48	12°38	18°53	7°22	22°18	28° 1	9°56	11°48	8° 4	8°35	3° 1	26°45
S 20	1 52 14	26°15'02	15°31	25°32	13°53	19°37	7°14	22°16	28° 2	9°58	11°46	7°56	8°32	3° 8	26°44
M21	1 56 10	27°14'52	28°53	24°18	15° 8	20°22	7° 7	22°14	28° 3	10° 1	11°45	7°46	8°29	3°14	26°43
T 22	2 0 7	28°14'44	12°V38	23° 7	16°23	21° 6	7° 0	22°13	28° 4	10° 3	11°44	7°35	8°25	3°21	26°42
W23	2 4 3	29°14'38	26°45	22° 3	17°38	21°51	6°53	22°11	28° 4	10° 5	11°43	7°24	8°22	3°27	26°41
T 24	2 8 0	0♁14'34	11♁ 8	21° 7	18°53	22°35	6°46	22° 9	28° 5	10° 7	11°42	7°14	8°19	3°34	26°40
F 25	2 11 56	1°14'32	25°40	20°20	20° 8	23°20	6°40	22° 7	28° 6	10° 9	11°41	7° 5	8°16	3°41	26°39
S 26	2 15 53	2°14'32	10II15	19°43	21°24	24° 4	6°33	22° 4	28° 6	10°11	11°40	7° 0	8°13	3°47	26°39
S 27	2 19 50	3°14'34	24°47	19°19	22°39	24°49	6°27	22° 2	28° 7	10°13	11°39	6°58	8°10	3°54	26°38
M28	2 23 46	4°14'38	9♁12	19° 5	23°54	25°34	6°21	22° 0	28° 7	10°15	11°38	6°D57	8° 6	4° 1	26°37
T 29	2 27 43	5°14'45	23°25	19°D 4	25° 9	26°19	6°14	21°57	28° 7	10°17	11°37	6°58	8° 3	4° 7	26°37
W30	2 31 39	6°14'53	7♁26	19°13	26°25	27° 4	6° 8	21°55	28° 8	10°20	11°35	6°R58	8° 0	4°14	26°36
T 31	2 35 36	7♁15'04	21♁15	19♁33	27♁40	27♁49	6°V 3	21II52	28♁ 8	10♁22	11♁34	6♁57	7♁57	4♁21	26♁36

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	2s57	22n39	0s15	15s21	3s15	5n14	1n27	22s37	1s19	2n20	1s39	21n49	1s27	21n11	0n31
W 2	3 20	19 27	1 28	15 37	3 19	4 45	1 27	22 45	1 19	2 17	1 39	21 49	1 27	21 11	0 31
T 3	3 43	15 9	2 35	15 51	3 21	4 16	1 28	22 52	1 19	2 14	1 39	21 49	1 27	21 10	0 31
F 4	4 7	10 4	3 32	16 3	3 23	3 46	1 28	23 0	1 20	2 11	1 39	21 49	1 27	21 10	0 31
S 5	4 30	4 32	4 17	16 11	3 24	3 17	1 29	23 7	1 20	2 7	1 39	21 49	1 28	21 10	0 31
S 6	4 53	1s 8	4 46	16 17	3 25	2 48	1 29	23 14	1 20	2 4	1 39	21 49	1 28	21 10	0 31
M 7	5 16	6 39	5 0	16 20	3 24	2 18	1 29	23 21	1 20	2 1	1 39	21 49	1 28	21 9	0 31
T 8	5 39	11 47	4 56	16 19	3 22	1 48	1 29	23 27	1 21	1 58	1 39	21 49	1 28	21 9	0 31
W 9	6 3	16 17	4 38	16 15	3 19	1 19	1 29	23 33	1 21	1 55	1 39	21 49	1 28	21 9	0 31
T 10	6 25	19 57	4 16	6 3	3 14	0 49	1 29	23 39	1 21	1 52	1 39	21 49	1 28	21 9	0 31
F 11	6 48	22 38	3 23	15 53	3 8	0 19	1 29	23 45	1 21	1 49	1 39	21 49	1 28	21 8	0 31
S 12	7 11	24 14	2 31	15 36	3 0	0s11	1 29	23 51	1 21	1 46	1 39	21 48	1 28	21 8	0 31
S 13	7 34	24 41	1 34	15 14	2 50	0 41	1 29	23 56	1 22	1 43	1 39	21 48	1 28	21 8	0 31
M14	7 56	24 1	0 32	14 47	2 39	1 11	1 29	24 1	1 22	1 40	1 39	21 48	1 28	21 8	0 31
T 15	8 19	22 16	0n30	14 16	2 26	1 41	1 28	24 6	1 22	1 37	1 39	21 48	1 28	21 7	0 31
W16	8 41	19 32	1 32	13 40	2 11	2 11	1 28	24 11	1 22	1 34	1 38	21 48	1 28	21 7	0 31
T 17	9 3	15 57	2 30	13 0	1 54	2 41	1 28	24 15	1 22	1 31	1 38	21 48	1 28	21 7	0 31
F 18	9 25	11 38	3 23	12 18	1 36	3 10	1 27	24 20	1 22	1 28	1 38	21 48	1 28	21 7	0 31
S 19	9 47	6 44	4 7	11 32	1 16	3 40	1 27	24 24	1 22	1 26	1 38	21 48	1 28	21 7	0 31
S 20	10 9	1 25	4 40	10 46	0 56	4 10	1 26	24 27	1 23	1 23	1 38	21 47	1 28	21 7	0 32
M21	10 31	4n 7	4 59	9 59	0 35	4 40	1 25	24 31	1 23	1 20	1 38	21 47	1 29	21 7	0 32
T 22	10 52	9 37	5 1	9 14	0 15	5 9	1 24	24 34	1 23	1 17	1 38	21 47	1 29	21 6	0 32
W23	11 14	14 46	4 46	8 31	0n 5	5 39	1 24	24 37	1 23	1 15	1 37	21 47	1 29	21 6	0 32
T 24	11 35	19 11	4 12	7 52	0 25	6 8	1 23	24 40	1 23	1 12	1 37	21 47	1 29	21 6	0 32
F 25	11 56	22 28	3 21	7 18	0 43	6 38	1 22	24 42	1 23	1 10	1 37	21 47	1 29	21 6	0 32
S 26	12 17	24 18	2 17	6 48	1 0	7 7	1 21	24 44	1 23	1 7	1 37	21 46	1 29	21 6	0 32
S 27	12 37	24 28	1 4	6 25	1 15	7 36	1 20	24 46	1 23	1 5	1 37	21 46	1 29	21 6	0 32
M28	12 58	22 58	0s12	6 7	1 29	8 5	1 19	24 48	1 23	1 3	1 37	21 46	1 29	21 6	0 32
T 29	13 18	20 2	1 27	5 56	1 40	8 33	1 17	24 49	1 23	1 1	1 36	21 46	1 29	21 6	0 32
W30	13 38	15 57	2 35	5 50	1 50	9 2	1 16	24 51	1 23	0 58	1 36	21 46	1 29	21 6	0 32
T 31	13s58	11n 4	3s34	5s50	1n58	9s30	1n15	24s51	1s23	0n56	1s36	21n46	1s29	21n 6	0n32

Julian Day Number = 2312660.5, Delta T = 121.91 sec
 Ecliptic obliquity = 23°29'21, Nutation = 0°00'16
 Ayanamsha: Fagan/Bradley = 19°26'00, Lahiri = 18°33'00Greg. Calendar

SWISS EPHEMERIS for the year 1619

NOVEMBER 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
F 1	2 39 32	8♌15'16	4♍52	20♌2	28♌55	28♌34	5°R57	21°R49	28♌8	10♌24	11°R33	6°R54	7♌54	4♌27	26°R35
S 2	2 43 29	9°15'31	18°17	20°41	0♌10	29°19	5°V51	21°II46	28°8	10°26	11°R32	6°R48	7°50	4°34	26°R35
S 3	2 47 25	10°15'48	1♌30	21°27	1°26	0♌4	5°46	21°43	28°8	10°28	11°31	6°40	7°47	4°41	26°35
M 4	2 51 22	11°16'06	14°31	22°21	2°41	0°50	5°41	21°40	28°R8	10°30	11°30	6°31	7°44	4°47	26°35
T 5	2 55 19	12°16'27	27°20	23°20	3°56	1°35	5°36	21°37	28°8	10°32	11°29	6°20	7°41	4°54	26°34
W 6	2 59 15	13°16'49	9♌56	24°26	5°12	2°20	5°31	21°34	28°8	10°34	11°28	6°10	7°38	5°0	26°34
T 7	3 3 12	14°17'13	22°19	25°36	6°27	3°6	5°26	21°30	28°8	10°36	11°26	6°1	7°35	5°7	26°D34
F 8	3 7 8	15°17'39	4♌30	26°50	7°43	3°51	5°22	21°27	28°8	10°37	11°25	5°55	7°31	5°14	26°34
S 9	3 11 5	16°18'06	16°31	28°7	8°58	4°37	5°17	21°23	28°7	10°39	11°24	5°50	7°28	5°20	26°34
S 10	3 15 1	17°18'35	28°23	29°27	10°13	5°23	5°13	21°20	28°7	10°41	11°23	5°48	7°25	5°27	26°35
M11	3 18 58	18°19'05	10♌10	0♌50	11°29	6°8	5°9	21°16	28°7	10°43	11°22	5°D48	7°22	5°34	26°35
T 12	3 22 54	19°19'37	21°56	2°15	12°44	6°54	5°6	21°12	28°6	10°45	11°21	5°49	7°19	5°40	26°35
W13	3 26 51	20°20'10	3♌46	3°42	14°0	7°40	5°2	21°8	28°6	10°47	11°20	5°50	7°16	5°47	26°35
T 14	3 30 48	21°20'44	15°44	5°10	15°15	8°26	4°59	21°5	28°5	10°49	11°19	5°R51	7°12	5°54	26°36
F 15	3 34 44	22°21'19	27°56	6°39	16°31	9°11	4°55	21°1	28°5	10°50	11°18	5°51	7°9	6°0	26°36
S 16	3 38 41	23°21'56	10♌27	8°10	17°46	9°57	4°52	20°57	28°4	10°52	11°16	5°50	7°6	6°7	26°37
S 17	3 42 37	24°22'33	23°22	9°41	19°1	10°43	4°50	20°52	28°3	10°54	11°15	5°46	7°3	6°14	26°37
M18	3 46 34	25°23'12	6°V43	11°12	20°17	11°29	4°47	20°48	28°3	10°56	11°14	5°41	7°0	6°20	26°38
T 19	3 50 30	26°23'52	20°32	12°45	21°32	12°16	4°45	20°44	28°2	10°57	11°13	5°35	6°56	6°27	26°39
W20	3 54 27	27°24'33	4♌47	14°17	22°48	13°2	4°42	20°40	28°1	10°59	11°12	5°29	6°53	6°34	26°40
T 21	3 58 23	28°25'16	19°25	15°50	24°3	13°48	4°40	20°35	28°0	11°1	11°11	5°23	6°50	6°40	26°41
F 22	4 2 20	29°26'00	4♌17	17°24	25°19	14°34	4°39	20°31	27°59	11°2	11°10	5°18	6°47	6°47	26°41
S 23	4 6 17	0♌26'45	19°17	18°57	26°34	15°20	4°37	20°26	27°58	11°4	11°9	5°16	6°44	6°53	26°42
S 24	4 10 13	1°27'32	4♌14	20°30	27°50	16°7	4°36	20°22	27°57	11°6	11°8	5°D15	6°41	7°0	26°43
M25	4 14 10	2°28'20	19°2	22°4	29°5	16°53	4°35	20°17	27°56	11°7	11°7	5°15	6°37	7°7	26°44
T 26	4 18 6	3°29'09	3♌35	23°38	0♌21	17°39	4°34	20°13	27°55	11°9	11°6	5°17	6°34	7°13	26°46
W27	4 22 3	4°30'00	17°49	25°12	1°36	18°26	4°33	20°8	27°54	11°10	11°5	5°18	6°31	7°20	26°47
T 28	4 25 59	5°30'52	1♍43	26°45	2°52	19°12	4°32	20°3	27°52	11°12	11°4	5°R19	6°28	7°27	26°48
F 29	4 29 56	6°31'46	15°16	28°19	4°7	19°58	4°32	19°59	27°51	11°13	11°3	5°19	6°25	7°33	26°49
S 30	4 33 52	7♌32'41	28♍31	29♌53	5♌23	20♌45	4°D32	19°II54	27°50	11°15	11°2	5°R17	6°22	7°40	26°51

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s17	5n43	4s19	5s55	2n5	9s58	1n13	24s52	1s23	0n54	1s36	21n45	1s29	21n6	0n32
S 2	14 37	0 12	4 50	6 5	2 10	10 26	1 12	24 52	1 23	0 52	1 36	21 45	1 29	21 6	0 32
S 3	14 56	5s15	5 4	6 19	2 13	10 54	1 11	24 53	1 23	0 50	1 35	21 45	1 29	21 6	0 32
M 4	15 15	10 23	5 2	6 37	2 15	11 21	1 9	24 52	1 23	0 48	1 35	21 45	1 29	21 6	0 32
T 5	15 33	14 59	4 45	6 58	2 16	11 48	1 7	24 52	1 23	0 47	1 35	21 44	1 29	21 6	0 32
W 6	15 51	18 51	4 15	7 22	2 16	12 15	1 6	24 51	1 23	0 45	1 35	21 44	1 29	21 6	0 32
T 7	16 10	21 48	3 32	7 49	2 15	12 41	1 4	24 50	1 23	0 43	1 34	21 44	1 29	21 6	0 32
F 8	16 27	23 43	2 41	8 17	2 13	13 7	1 3	24 49	1 23	0 42	1 34	21 44	1 29	21 6	0 32
S 9	16 45	24 30	1 42	8 48	2 11	13 33	1 1	24 47	1 23	0 40	1 34	21 44	1 29	21 6	0 32
S 10	17 2 24	9 0 40	9 19	2 7	13 59	0 59	24 46	1 23	0 39	1 34	21 43	1 29	21 6	0 32	2 49
M11	17 19	22 42	0n24	9 52	2 3	14 24	0 57	24 43	1 23	0 37	1 33	21 43	1 29	21 7	0 32
T 12	17 36	20 17	1 26	10 25	1 59	14 49	0 55	24 41	1 23	0 36	1 33	21 43	1 29	21 7	0 32
W13	17 52	16 59	2 26	10 59	1 54	15 13	0 53	24 38	1 23	0 35	1 33	21 43	1 29	21 7	0 32
T 14	18 8	12 59	3 20	11 34	1 49	15 37	0 51	24 36	1 22	0 34	1 33	21 42	1 29	21 7	0 32
F 15	18 24	8 22	4 5	12 9	1 43	16 1	0 49	24 32	1 22	0 33	1 32	21 42	1 29	21 7	0 32
S 16	18 39	3 20	4 41	12 43	1 37	16 24	0 47	24 29	1 22	0 32	1 32	21 42	1 29	21 7	0 32
S 17	18 54	2n 0	5 3	13 18	1 31	16 47	0 45	24 25	1 22	0 31	1 32	21 41	1 29	21 7	0 33
M18	19 9	7 25	5 11	13 53	1 25	17 10	0 43	24 21	1 22	0 30	1 31	21 41	1 29	21 8	0 33
T 19	19 23	12 40	5 0	14 27	1 18	17 31	0 41	24 17	1 22	0 30	1 31	21 41	1 29	21 8	0 33
W20	19 37	17 24	4 31	15 1	1 11	17 53	0 39	24 12	1 22	0 29	1 31	21 41	1 29	21 8	0 33
T 21	19 51	21 13	3 44	15 35	1 5	18 14	0 37	24 7	1 22	0 29	1 31	21 40	1 29	21 8	0 33
F 22	20 4 23	41 2	4 41	16 8	0 58	18 34	0 35	24 2	1 21	0 28	1 30	21 40	1 29	21 8	0 33
S 23	20 17 24	29 1	1 26	16 41	0 51	18 54	0 32	23 57	1 21	0 28	1 30	21 40	1 29	21 9	0 33
S 24	20 30 23	31 0	6 17	17 13	0 44	19 14	0 30	23 51	1 21	0 28	1 30	21 39	1 29	21 9	0 33
M25	20 42 20	54 1s15	17 44	0 37	19 33	0 28	23 45	1 21	0 27	1 29	21 39	1 29	21 9	0 33	2 58
T 26	20 54 16	59 2	29 18	14 0	30 19	51 0	26 23	39 1	21 0	27 1	29 21	39 0	33 2	59 1	34 0
W27	21 5 12	9 3	32 18	44 0	23 20	9 0	23 33	33 1	20 0	27 1	29 21	39 0	33 2	59 1	34 0
T 28	21 16 6	49 4	22 19	13 0	16 20	26 0	21 23	26 1	20 0	27 1	29 21	38 1	29 21	10 0	33 0
F 29	21 27 1	17 4	55 19	41 0	9 20	43 0	19 23	19 1	20 0	27 1	28 21	38 1	29 21	10 0	33 0
S 30	21s37	4s10	5s12	20s8	0n2	20s59	0n16	23s12	1s20	0n28	1s28	21n38	1s29	21n11	0n33

Julian Day Number = 2312691.5, Delta T = 121.92 sec
 Ecliptic obliquity = 23°29'21", Nutation = 0°00'16"
 Ayanamsha: Fagan/Bradley = 19°26'04", Lahiri = 18°33'04"Greg. Calendar

SWISS EPHEMERIS for the year 1619

DECEMBER 1619 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	4 37 49	8°33'37	11°29	17°27	6°38	21°32	4°32	19°R49	27°R48	11°16	11°R 1	5°R14	6°18	7°47	26°52
M 2	4 41 46	9°34'34	24°11	3° 1	7°54	22°18	4°32	19°II44	27°247	11°17	11°R 0	5°10	6°15	7°53	26°54
T 3	4 45 42	10°35'33	6°141	4°35	9° 9	23° 5	4°33	19°39	27°45	11°19	10°59	5° 6	6°12	8° 0	26°55
W 4	4 49 39	11°36'33	18°59	6° 8	10°25	23°51	4°34	19°35	27°44	11°20	10°58	5° 2	6° 9	8° 7	26°57
T 5	4 53 35	12°37'34	17° 8	7°42	11°40	24°38	4°35	19°30	27°42	11°21	10°57	4°58	6° 6	8°13	26°59
F 6	4 57 32	13°38'35	13° 8	9°16	12°56	25°25	4°36	19°25	27°41	11°23	10°56	4°56	6° 2	8°20	27° 0
S 7	5 1 28	14°39'38	25° 1	10°50	14°11	26°12	4°37	19°20	27°39	11°24	10°55	4°54	5°59	8°26	27° 2
S 8	5 5 25	15°40'41	6°350	12°24	15°27	26°58	4°39	19°15	27°37	11°25	10°54	4°D54	5°56	8°33	27° 4
M 9	5 9 21	16°41'45	18°36	13°59	16°42	27°45	4°40	19°10	27°36	11°26	10°53	4°55	5°53	8°40	27° 6
T 10	5 13 18	17°42'50	0°23	15°33	17°58	28°32	4°42	19° 5	27°34	11°27	10°52	4°56	5°50	8°46	27° 8
W 11	5 17 15	18°43'55	12°14	17° 7	19°13	29°19	4°44	19° 0	27°32	11°29	10°51	4°57	5°47	8°53	27°10
T 12	5 21 11	19°45'01	24°12	18°42	20°29	0°6	4°47	18°55	27°30	11°30	10°51	4°59	5°43	9° 0	27°12
F 13	5 25 8	20°46'07	6°23	20°16	21°44	0°53	4°49	18°50	27°28	11°31	10°50	5° 0	5°40	9° 6	27°14
S 14	5 29 4	21°47'13	18°50	21°51	23° 0	1°39	4°52	18°45	27°26	11°32	10°49	5°R 0	5°37	9°13	27°16
S 15	5 33 1	22°48'19	1°39	23°26	24°15	2°26	4°55	18°40	27°24	11°33	10°48	5° 0	5°34	9°20	27°18
M 16	5 36 57	23°49'26	14°51	25° 1	25°31	3°13	4°58	18°35	27°22	11°34	10°47	4°59	5°31	9°26	27°21
T 17	5 40 54	24°50'33	28°32	26°36	26°46	4° 0	5° 2	18°30	27°20	11°35	10°47	4°58	5°28	9°33	27°23
W 18	5 44 50	25°51'40	12°340	28°12	28° 2	4°47	5° 5	18°25	27°18	11°35	10°46	4°57	5°24	9°40	27°25
T 19	5 48 47	26°52'47	27°14	29°48	29°17	5°34	5° 9	18°20	27°16	11°36	10°45	4°56	5°21	9°46	27°28
F 20	5 52 44	27°53'54	12°II10	1°324	0°333	6°21	5°13	18°16	27°14	11°37	10°44	4°55	5°18	9°53	27°30
S 21	5 56 40	28°55'02	27°19	3° 0	1°48	7° 8	5°17	18°11	27°12	11°38	10°44	4°D55	5°15	10° 0	27°33
S 22	6 0 37	29°56'10	12°33	4°36	3° 4	7°55	5°22	18° 6	27° 9	11°39	10°43	4°55	5°12	10° 6	27°35
M 23	6 4 33	0°57'19	27°41	6°13	4°19	8°42	5°26	18° 1	27° 7	11°40	10°42	4°55	5° 8	10°13	27°38
T 24	6 8 30	1°58'27	12°36	7°50	5°35	9°29	5°31	17°56	27° 5	11°40	10°42	4°56	5° 5	10°19	27°41
W 25	6 12 26	2°59'36	27° 9	9°27	6°50	10°17	5°36	17°52	27° 3	11°41	10°41	4°56	5° 2	10°26	27°43
T 26	6 16 23	4° 0'46	11°18	11° 5	8° 6	11° 4	5°41	17°47	27° 0	11°42	10°40	4°56	4°59	10°33	27°46
F 27	6 20 20	5° 1'55	25° 0	12°42	9°21	11°51	5°46	17°42	26°58	11°42	10°40	4°R56	4°56	10°39	27°49
S 28	6 24 16	6° 3'05	8°17	14°20	10°37	12°38	5°51	17°38	26°56	11°43	10°39	4°D56	4°53	10°46	27°52
S 29	6 28 13	7° 4'16	21°11	15°58	11°52	13°25	5°57	17°33	26°53	11°43	10°39	4°56	4°49	10°53	27°54
M 30	6 32 9	8° 5'26	3°145	17°37	13° 8	14°12	6° 3	17°29	26°51	11°44	10°38	4°56	4°46	10°59	27°57
T 31	6 36 6	9° 6'37	16°14	19°15	14°23	14°59	6° 9	17°24	26°48	11°44	10°38	4°57	4°43	11° 6	28° 0

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	21s47	9s20	5s12	20s34	0s 5	21s14	0n14	23s 4	1s19	0n28	1s28	21n37	1s29	21n11	0n33	3s 1	1n34	0n10	15s44	23s23	23s20	23s 8	7s11	5n44
M 2	21 56 14	0 4 57	21 0	0 12	21 29	0 12	22 56	1 19	0 28	1 27	21 37	1 29	21 11	0 33	3 2	1 34	0 10	15 44	23 23	23 20	23 6	7 11	5 44	
T 3	22 5 17	59 4 28	21 24	0 18	21 43	0 9	22 48	1 19	0 29	1 27	21 37	1 29	21 12	0 33	3 2	1 34	0 10	15 44	23 23	23 21	23 5	7 11	5 43	
W 4	22 13 21	8 3 47	21 47	0 25	21 57	0 7	22 40	1 19	0 29	1 27	21 36	1 29	21 12	0 33	3 3	1 34	0 10	15 44	23 24	23 21	23 4	7 11	5 43	
T 5	22 21 23	18 2 56	22 9	0 31	22 10	0 4	22 32	1 18	0 30	1 26	21 36	1 28	21 12	0 33	3 3	1 34	0 10	15 44	23 24	23 21	23 3	7 10	5 43	
F 6	22 29 24	22 1 57	22 31	0 38	22 22	0 2	22 23	1 18	0 31	1 26	21 36	1 28	21 13	0 33	3 4	1 34	0 10	15 44	23 24	23 21	23 1	7 10	5 42	
S 7	22 36 24	18 0 54	22 51	0 44	22 33	0s 0	22 14	1 18	0 32	1 26	21 36	1 28	21 13	0 33	3 4	1 34	0 9	15 43	23 24	23 21	23 0	7 10	5 42	
S 8	22 43 23	8 0n11	23 10	0 50	22 44	0 3	22 4	1 18	0 32	1 25	21 35	1 28	21 13	0 33	3 5	1 34	0 9	15 43	23 24	23 21	22 59	7 10	5 41	
M 9	22 49 20	57 1 15	23 27	0 56	22 55	0 5	21 55	1 17	0 33	1 25	21 35	1 28	21 14	0 33	3 5	1 34	0 9	15 43	23 24	23 21	22 57	7 9	5 41	
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S 29	23 18 13	0 5 6	24 39	2 8	23 47	0 50	17 57	1 10	1 9	1 19	21 29	1 26	21 22	0 34	3 11	1 36	0 10	15 38	23 24	23 24	22 30	6 59	5 34	