

SWISS EPHEMERIS for the year 1431

JANUARY 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	7 14 39	19°31'39	13°26'	5°R42	24°57	18°58	0°38	16°36	21°57	15°R37	7°R18	27°R56	29°40	1°45	9°42
T 2	7 18 36	20°12'44	25°19'	5°32	25°20	19°25	0°41	16°43	21° 5	15°L36	7°16	27°D55	29°37	1°52	9°44
W 3	7 22 32	21°13'48	7°19	4°31	26°35	19°52	0°44	16°50	21° 6	15°34	7°15	27°A55	29°34	1°58	9°47
T 4	7 26 29	22°14'52	18°53	4°10	27°49	20°18	0°48	16°57	21° 7	15°33	7°14	27°56	29°31	2° 5	9°50
F 5	7 30 25	23°15'55	0°43	3°58	29° 4	20°45	0°52	17° 4	21° 7	15°31	7°13	27°58	29°28	2°12	9°53
S 6	7 34 22	24°16'58	12°40	3°D54	0°319	21°11	0°56	17°11	21° 8	15°30	7°12	28° 0	29°25	2°18	9°56
S 7	7 38 18	25°18'01	24°50	3°59	1°34	21°37	1° 0	17°18	21° 9	15°28	7°10	28°R 1	29°21	2°25	9°59
M 8	7 42 15	26°19'02	7°19	4°10	2°49	22° 3	1° 4	17°25	21°10	15°27	7° 9	28° 0	29°18	2°31	10° 1
T 9	7 46 12	27°20'04	20° 9	4°29	4° 3	22°28	1° 8	17°32	21°11	15°25	7° 8	27°58	29°15	2°38	10° 4
W10	7 50 8	28°21'04	3°26	4°55	5°18	22°53	1°13	17°39	21°12	15°24	7° 7	27°55	29°12	2°45	10° 7
T 11	7 54 5	29°22'05	17° 9	5°26	6°33	23°18	1°18	17°46	21°13	15°22	7° 6	27°50	29° 9	2°51	10°10
F 12	7 58 1	0°23'04	1°30	6° 2	7°48	23°43	1°23	17°53	21°14	15°20	7° 5	27°46	29° 6	2°58	10°14
S 13	8 1 58	1°24'03	15°55	6°43	9° 3	24° 7	1°28	18° 0	21°15	15°19	7° 3	27°42	29° 2	3° 5	10°17
S 14	8 5 54	2°25'00	0°47	7°28	10°18	24°32	1°34	18° 7	21°16	15°17	7° 2	27°39	28°59	3°11	10°20
M15	8 9 51	3°25'57	15°49	8°18	11°32	24°55	1°39	18°14	21°18	15°16	7° 1	27°37	28°56	3°18	10°23
T 16	8 13 47	4°26'52	0°52	9°11	12°47	25°19	1°45	18°21	21°19	15°14	7° 0	27°D37	28°53	3°25	10°26
W17	8 17 44	5°27'46	15°46	10° 7	14° 2	25°42	1°51	18°28	21°20	15°12	6°59	27°38	28°50	3°31	10°29
T 18	8 21 41	6°28'38	0°56	11° 6	15°17	26° 5	1°57	18°35	21°21	15°11	6°58	27°39	28°46	3°38	10°33
F 19	8 25 37	7°29'29	14°46	12° 8	16°32	26°28	2° 3	18°42	21°23	15° 9	6°57	27°40	28°43	3°45	10°36
S 20	8 29 34	8°30'19	28°46	13°13	17°47	26°50	2° 9	18°49	21°24	15° 7	6°56	27°41	28°40	3°51	10°39
S 21	8 33 30	9°31'07	12°23	14°19	19° 1	27°12	2°16	18°56	21°26	15° 6	6°55	27°R42	28°37	3°58	10°43
M22	8 37 27	10°31'54	25°40	15°28	20°16	27°34	2°23	19° 2	21°27	15° 4	6°54	27°41	28°34	4° 5	10°46
T 23	8 41 23	11°32'39	8°38	16°39	21°31	27°56	2°30	19° 9	21°29	15° 2	6°53	27°40	28°31	4°11	10°49
W24	8 45 20	12°33'22	21°19	17°52	22°46	28°17	2°37	19°16	21°31	15° 1	6°52	27°38	28°27	4°18	10°53
T 25	8 49 16	13°34'04	3°47	19° 6	24° 1	28°37	2°44	19°23	21°32	14°59	6°51	27°35	28°24	4°24	10°56
F 26	8 53 13	14°34'44	16° 3	20°22	25°16	28°58	2°51	19°29	21°34	14°57	6°50	27°33	28°21	4°31	11° 0
S 27	8 57 10	15°35'23	28° 9	21°40	26°30	29°18	2°59	19°36	21°36	14°55	6°49	27°32	28°18	4°38	11° 3
S 28	9 1 6	16°36'00	10°8	22°58	27°45	29°38	3° 6	19°42	21°38	14°54	6°48	27°30	28°15	4°44	11° 7
M29	9 5 3	17°36'35	22° 0	24°19	29° 0	29°57	3°14	19°49	21°40	14°52	6°47	27°D30	28°12	4°51	11°10
T 30	9 8 59	18°37'09	3°49	25°40	0°15	0°M16	3°22	19°56	21°42	14°50	6°46	27°30	28° 8	4°58	11°14
W31	9 12 56	19°37'42	15°37	27°3	1°29	0°M34	3°30	20°3	21°44	14°49	6°45	27°A30	28° 5	5°11	11°17

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	22s 8	18n 5	1n18	19s59	3n25	22s45	0n38	5s33	2n 3	10n40	1s 8	22s23	0n 5	7n44	0s34	16n29	0n18	21n43	1s36	12s14	11s37	10n43	3s43	4n34
T 2	21 59	13 21	0 14	20 4	3 21	22 50	0 36	5 43	2 3	10 42	1 8	22 23	0 5	7 44	0 34	16 30	0 18	21 43	1 36	12 14	11 38	10 39	3 42	4 34
W 3	21 50	8 9	0s50	20 10	3 17	22 55	0 33	5 53	2 4	10 43	1 7	22 22	0 5	7 44	0 34	16 30	0 18	21 43	1 36	12 14	11 40	10 36	3 42	4 34
T 4	21 40	2 42	1 52	20 17	3 11	23 0	0 30	6 2	2 4	10 45	1 7	22 21	0 5	7 44	0 34	16 31	0 18	21 43	1 36	12 14	11 41	10 33	3 41	4 34
F 5	21 30	2s53	2 50	20 24	3 3	23 3	0 28	6 12	2 5	10 46	1 7	22 20	0 5	7 45	0 34	16 31	0 18	21 44	1 36	12 13	11 42	10 30	3 40	4 33
S 6	21 20	8 24	3 41	20 32	2 55	23 6	0 25	6 21	2 5	10 48	1 6	22 19	0 5	7 45	0 34	16 32	0 18	21 44	1 36	12 12	11 43	10 27	3 39	4 33
S 7	21 9	13 43	4 23	20 41	2 46	23 8	0 22	6 31	2 6	10 50	1 6	22 19	0 5	7 45	0 34	16 32	0 18	21 44	1 36	12 12	11 44	10 23	3 38	4 33
M 8	20 57	18 37	4 53	20 50	2 37	23 10	0 19	6 40	2 6	10 51	1 6	22 18	0 5	7 46	0 34	16 33	0 18	21 44	1 35	12 12	11 45	10 20	3 37	4 33
T 9	20 46	22 49	5 11	21 0	2 27	23 10	0 17	6 49	2 6	10 53	1 5	22 17	0 5	7 46	0 34	16 33	0 18	21 44	1 35	12 13	11 46	10 17	3 36	4 33
W10	20 33	26 0	5 12	21 9	2 17	23 10	0 14	6 58	2 7	10 55	1 5	22 16	0 5	7 46	0 34	16 34	0 18	21 44	1 35	12 14	11 47	10 14	3 36	4 32
T 11	20 21	27 48	4 56	21 18	2 6	23 10	0 11	7 7	2 7	10 57	1 5	22 15	0 5	7 47	0 34	16 34	0 18	21 44	1 35	12 16	11 48	10 11	3 35	4 32
F 12	20 8	27 52	4 22	21 27	1 56	23 8	0 9	7 15	2 8	10 59	1 5	22 14	0 5	7 47	0 34	16 35	0 18	21 44	1 35	12 17	11 50	10 7	3 34	4 32
S 13	19 55	26 2	3 30	21 36	1 45	23 6	0 6	7 24	2 8	11 1	1 4	22 13	0 5	7 48	0 34	16 35	0 18	21 45	1 35	12 19	11 51	10 4	3 33	4 32
S 14	19 41	22 22	2 22	21 44	1 34	23 4	0 3	7 33	2 8	11 3	1 4	22 13	0 5	7 48	0 34	16 36	0 18	21 45	1 35	12 20	11 52	10 1	3 32	4 31
M15	19 27	17 10	1 5	21 52	1 24	23 0	0 1	7 41	2 9	11 5	1 4	22 12	0 4	7 49	0 34	16 36	0 18	21 45	1 35	12 20	11 53	9 58	3 31	4 31
T 16	19 13	10 55	0n18	21 59	1 13	22 56	0s 2	7 49	2 9	11 8	1 3	22 11	0 4	7 49	0 34	16 37	0 18	21 45	1 35	12 20	11 54	9 54	3 30	4 31
W17	18 58	4 7	1 39	22 5	1 3	22 51	0 5	7 57	2 10	11 10	1 3	22 10	0 4	7 50	0 33	16 37	0 18	21 45	1 35	12 20	11 55	9 51	3 29	4 31
T 18	18 43	2n47	2 51	22 10	0 53	22 45	0 7	8 5	2 10	11 12	1 3	22 9	0 4	7 50	0 33	16 38	0 18	21 45	1 35	12 20	11 56	9 48	3 28	4 31
F 19	18 27	9 24	3 52	22 15	0 43	22 39	0 10	8 13	2 10	11 15	1 3	22 8	0 4	7 51	0 33	16 38	0 18	21 45	1 35	12 19	11 57	9 45	3 27	4 30
S 20	18 12	15 22	4 37	22 18	0 33	22 32	0 12	8 21	2 11	11 17	1 2	22 7	0 4	7 51	0 33	16 39	0 18	21 46	1 35	12 19	11 58	9 42	3 26	4 30
S 21	17 56	20 26	5 5	22 21	0 24	22 24	0 15	8 28	2 11	11 20	1 2	22 6	0 4	7 52	0 33	16 39	0 18	21 46	1 34	12 19	12 0	9 38	3 24	4 30
M22	17 39	24 21	5 16	22 23	0 14	22 16	0 18	8 36	2 12	11 22	1 2	22 6	0 4	7 53	0 33	16 40	0 18	21 46	1 34	12 19	12 1	9 35	3 23	4 30
T 23	17 22	26 55	5 10	22 24	0 5	22 7	0 20	8 43	2 12	11 25	1 1	22 5	0 4	7 53	0 33	16 40	0 18	21 46	1 34	12 19	12 2	9 32	3 22	4 30
W24	17 6	28 3	4 50	22 23	0s 4	21 57	0 23	8 50	2 12	11 28	1 1	22 4	0 4	7 54										

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FEBRUARY 1431 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	9 16 52	20 ³⁸ 13	27 ¹⁷ 26	28 ³ 27	2 ² 44	0 ¹¹ 52	3 ⁸ 39	20 ³ 9	21 ¹⁷ 46	14 ¹ R47	6 ¹ R44	27 ³ 31	28 ³ 2	5 ¹¹ 11	11 ¹ 21
F 2	9 20 49	21 ³⁸ 43	9 ² 18	29 ⁵ 2	3 ⁵ 9	1 ¹⁰	3 ⁴⁷	20 ¹⁵	21 ⁴⁸	14 ¹ L45	6 ¹ 43	27 ³ 32	27 ⁵ 9	5 ¹⁸	11 ² 24
S 3	9 24 45	22 ³⁹ 11	21 ¹ 8	1 ¹ 19	5 ¹⁴	1 ²⁷	3 ⁵⁵	20 ²¹	21 ⁵⁰	14 ⁴⁴	6 ⁴³	27 ³ 32	27 ⁵ 6	5 ²⁴	11 ² 28
S 4	9 28 42	23 ³⁹ 38	3 ¹¹ 29	2 ⁴⁶	6 ²⁹	1 ⁴⁴	4 ⁴	20 ²⁸	21 ⁵²	14 ⁴²	6 ⁴²	27 ³ 33	27 ⁵ 2	5 ³¹	11 ³ 32
M 5	9 32 39	24 ⁴⁰ 03	15 ⁵ 5	4 ¹⁴	7 ⁴³	2 ¹	4 ¹³	20 ³⁴	21 ⁵⁴	14 ⁴⁰	6 ⁴¹	27 ³ 33	27 ⁴ 9	5 ³⁸	11 ³ 35
T 6	9 36 35	25 ⁴⁰ 28	28 ⁴⁰	5 ⁴⁴	8 ⁵⁸	2 ¹⁷	4 ²²	20 ⁴⁰	21 ⁵⁶	14 ³⁹	6 ⁴⁰	27 ³ R33	27 ⁴ 6	5 ⁴⁴	11 ³ 39
W 7	9 40 32	26 ⁴⁰ 50	11 ¹ 49	7 ¹⁵	10 ¹³	2 ³²	4 ³¹	20 ⁴⁷	21 ⁵⁹	14 ³⁷	6 ³⁹	27 ³ 33	27 ⁴ 3	5 ⁵¹	11 ³ 43
T 8	9 44 28	27 ⁴¹ 12	25 ² 3	8 ⁴⁶	11 ²⁸	2 ⁴⁷	4 ⁴⁰	20 ⁵³	22 ¹	14 ³⁵	6 ³⁹	27 ³ D33	27 ⁴ 0	5 ⁵⁷	11 ³ 46
F 9	9 48 25	28 ⁴¹ 32	9 ² 25	10 ¹⁹	12 ⁴²	3 ²	4 ⁴⁹	20 ⁵⁹	22 ³	14 ³⁴	6 ³⁸	27 ³ 33	27 ³ 7	6 ⁴	11 ³ 50
S 10	9 52 21	29 ⁴¹ 50	23 ⁵ 2	11 ⁵³	13 ⁵⁷	3 ¹⁶	4 ⁵⁹	21 ⁵	22 ⁶	14 ³²	6 ³⁷	27 ³ 33	27 ³ 3	6 ¹¹	11 ³ 54
S 11	9 56 18	0 ¹ 42'07	8 ³ 42	13 ²⁷	15 ¹²	3 ³⁰	5 ⁸	21 ¹¹	22 ⁸	14 ³¹	6 ³⁷	27 ³ 33	27 ³ 0	6 ¹⁷	11 ³ 58
M12	10 0 14	1 ⁴² 22	23 ⁴⁸	15 ³	16 ²⁷	3 ⁴³	5 ¹⁸	21 ¹⁷	22 ¹⁰	14 ²⁹	6 ³⁶	27 ³ R34	27 ² 7	6 ²⁴	12 ¹
T 13	10 4 11	2 ⁴² 36	9 ¹ 1	16 ⁴⁰	17 ⁴¹	3 ⁵⁵	5 ²⁸	21 ²³	22 ¹³	14 ²⁷	6 ³⁵	27 ³ 33	27 ² 4	6 ³¹	12 ¹ 5
W14	10 8 8	3 ⁴² 47	24 ¹ 2	18 ¹⁸	18 ⁵⁶	4 ⁷	5 ³⁸	21 ²⁹	22 ¹⁵	14 ²⁶	6 ³⁵	27 ³ 33	27 ² 1	6 ³⁷	12 ¹ 9
T 15	10 12 4	4 ⁴² 56	9 ¹ 11	19 ⁵⁷	20 ¹¹	4 ¹⁸	5 ⁴⁸	21 ³⁵	22 ¹⁸	14 ²⁴	6 ³⁴	27 ³ 32	27 ¹ 7	6 ⁴⁴	12 ¹ 12
F 16	10 16 1	5 ⁴³ 04	23 ⁵⁰	21 ³⁷	21 ²⁶	4 ²⁹	5 ⁵⁸	21 ⁴⁰	22 ²¹	14 ²³	6 ³⁴	27 ³ 32	27 ¹ 4	6 ⁵¹	12 ¹ 16
S 17	10 19 57	6 ⁴³ 09	8 ¹ 5	23 ¹⁸	22 ⁴⁰	4 ⁴⁰	6 ⁸	21 ⁴⁶	22 ²³	14 ²¹	6 ³³	27 ³ 31	27 ¹ 1	6 ⁵⁷	12 ¹ 20
S 18	10 23 54	7 ⁴³ 12	21 ⁵³	25 ⁰	23 ⁵⁵	4 ⁴⁹	6 ¹⁹	21 ⁵²	22 ²⁶	14 ²⁰	6 ³²	27 ³ 30	27 ⁰ 8	7 ⁴	12 ¹ 24
M19	10 27 50	8 ⁴³ 13	5 ¹ 14	26 ⁴³	25 ¹⁰	4 ⁵⁹	6 ²⁹	21 ⁵⁷	22 ²⁸	14 ¹⁸	6 ³²	27 ³ D29	27 ⁰ 5	7 ¹¹	12 ¹ 28
T 20	10 31 47	9 ⁴³ 12	18 ¹¹	28 ²⁷	26 ²⁴	5 ⁷	6 ⁴⁰	22 ³	22 ³¹	14 ¹⁷	6 ³¹	27 ³ 29	27 ⁰ 2	7 ¹⁷	12 ¹ 31
W21	10 35 43	10 ⁴³ 09	0 ¹ 47	0 ¹ 13	27 ³⁹	5 ¹⁵	6 ⁵⁰	22 ⁸	22 ³⁴	14 ¹⁵	6 ³¹	27 ³ 30	26 ⁵ 8	7 ²⁴	12 ¹ 35
T 22	10 39 40	11 ⁴³ 03	13 ⁶	1 ⁵⁹	28 ⁵⁴	5 ²²	7 ¹	22 ¹⁴	22 ³⁷	14 ¹⁴	6 ³¹	27 ³ 31	26 ⁵ 5	7 ³¹	12 ¹ 39
F 23	10 43 37	12 ⁴² 55	25 ¹²	3 ⁴⁷	0 ¹ 8	5 ²⁹	7 ¹²	22 ¹⁹	22 ⁴⁰	14 ¹²	6 ³⁰	27 ³ 33	26 ⁵ 2	7 ³⁷	12 ¹ 43
S 24	10 47 33	13 ⁴² 45	7 ¹ 9	5 ³⁶	1 ²³	5 ³⁵	7 ²³	22 ²⁵	22 ⁴²	14 ¹¹	6 ³⁰	27 ³ 34	26 ⁴ 9	7 ⁴⁴	12 ¹ 46
S 25	10 51 30	14 ⁴² 33	18 ⁵⁹	7 ²⁶	2 ³⁷	5 ⁴⁰	7 ³⁴	22 ³⁰	22 ⁴⁵	14 ⁹	6 ²⁹	27 ³ 35	26 ⁴ 6	7 ⁵⁰	12 ¹ 50
M26	10 55 26	15 ⁴² 19	0 ¹ 47	9 ¹⁷	3 ⁵²	5 ⁴⁵	7 ⁴⁵	22 ³⁵	22 ⁴⁸	14 ⁸	6 ²⁹	27 ³ R35	26 ⁴ 3	7 ⁵⁷	12 ¹ 54
T 27	10 59 23	16 ⁴² 02	12 ³⁵	11 ⁹	5 ⁷	5 ⁴⁹	7 ⁵⁷	22 ⁴⁰	22 ⁵¹	14 ⁷	6 ²⁹	27 ³ 34	26 ³ 9	8 ⁴	12 ¹ 58
W28	11 3 19	17 ⁴¹ 44	24 ¹⁷ 24	13 ¹ 3	6 ¹ 21	5 ¹¹ 53	8 ¹ 8	22 ³ 45	22 ¹ 54	14 ¹ 5	6 ² 28	27 ³ 33	26 ³ 6	8 ¹ 10	13 ¹ 1

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
T 1	14s40	1s24	2s39	21s37	1s6	20s17	0s41	9s42	2n15	11n51	0s59	21s57	0n3	8n0	0s33	16n45	0n19	21n47	1s34	12s22	12s12	9n3	3s12	4n28
F 2	14 20	6 57	3 32	21 25	1 12	20 1	0 43	9 48	2 15	11 54	0 59	21 56	0 3	8 1	0 33	16 45	0 19	21 47	1 33	12 22	12 13	8 59	3 10	4 28
S 3	14 0	12 18	4 17	21 12	1 19	19 45	0 46	9 54	2 16	11 57	0 59	21 55	0 3	8 1	0 33	16 46	0 19	21 47	1 33	12 22	12 14	8 56	3 9	4 28
S 4	13 41	17 16	4 50	20 58	1 24	19 29	0 48	9 59	2 16	12 0	0 58	21 54	0 3	8 2	0 33	16 46	0 19	21 48	1 33	12 22	12 15	8 53	3 8	4 28
M 5	13 20	21 37	5 11	20 43	1 30	19 12	0 50	10 5	2 16	12 3	0 58	21 53	0 3	8 3	0 33	16 47	0 19	21 48	1 33	12 22	12 16	8 50	3 7	4 28
T 6	13 0	25 5	5 18	20 26	1 35	18 54	0 52	10 10	2 16	12 6	0 58	21 52	0 3	8 4	0 33	16 47	0 19	21 48	1 33	12 22	12 17	8 46	3 5	4 28
W 7	12 40	27 22	5 8	20 8	1 40	18 36	0 54	10 15	2 17	12 10	0 58	21 51	0 3	8 5	0 33	16 48	0 19	21 48	1 33	12 22	12 18	8 43	3 4	4 27
T 8	12 19	28 7	4 41	19 48	1 44	18 17	0 56	10 20	2 17	12 13	0 57	21 51	0 3	8 6	0 33	16 48	0 19	21 48	1 33	12 22	12 19	8 40	3 3	4 27
F 9	11 58	27 7	3 57	19 27	1 49	17 58	0 57	10 25	2 17	12 16	0 57	21 50	0 3	8 7	0 33	16 49	0 19	21 48	1 33	12 22	12 20	8 37	3 2	4 27
S 10	11 37	24 18	2 57	19 5	1 52	17 38	0 59	10 29	2 17	12 20	0 57	21 49	0 3	8 7	0 33	16 49	0 19	21 48	1 33	12 22	12 22	8 33	3 0	4 27
S 11	11 16	19 48	1 43	18 41	1 56	17 18	1 1	10 34	2 18	12 23	0 57	21 48	0 3	8 8	0 33	16 50	0 19	21 48	1 33	12 22	12 23	8 30	2 59	4 27
M12	10 54	13 58	0 21	18 16	1 59	16 57	1 3	10 38	2 18	12 27	0 57	21 47	0 2	8 9	0 33	16 50	0 19	21 49	1 33	12 22	12 24	8 27	2 58	4 27
T 13	10 32	7 14	1n3	17 49	2 2	16 36	1 4	10 42	2 18	12 30	0 56	21 46	0 2	8 10	0 33	16 51	0 19	21 49	1 32	12 22	12 25	8 23	2 56	4 27
W14	10 11	0 8	2 23	17 22	2 4	16 14	1 6	10 46	2 18	12 34	0 56	21 45	0 2	8 11	0 33	16 51	0 19	21 49	1 32	12 22	12 26	8 20	2 55	4 27
T 15	9 49	6n53	3 31	16 52	2 6	15 52	1 8	10 50	2 18	12 37	0 56	21 45	0 2	8 12	0 33	16 52	0 19	21 49	1 32	12 22	12 27	8 17	2 54	4 27
F 16	9 27	13 22	4 24	16 21	2 7	15 30	1 9	10 53	2 18	12 41	0 56	21 44	0 2	8 13	0 33	16 52	0 19	21 49	1 32	12 22	12 28	8 14	2 52	4 27
S 17	9 4	18 58	4 59	15 49	2 9	15 7	1 11	10 57	2 18	12 44	0 55	21 43	0 2	8 14	0 33	16 52	0 19	21 49	1 32	12 23	12 29	8 10	2 51	4 26
S 18	8 42	23 22	5 16	15 16	2 9	14 43	1 12	11 0	2 19	12 48	0 55	21 42	0 2	8 15	0 33	16 53	0 19	21 49	1 32	12 23	12 30	8 7	2 50	4 26
M19	8 20	26 24	5 15	14 41	2 10	14 19	1 13	11 3	2 19	12 52	0 55	21 41	0 2	8 16	0 32	16 53	0 19	21 49	1 32	12 23	12 31	8 4	2 48	4 26
T 20	7 57	27 55	4 57	14 4	2 9	13 55	1 15	11 5	2 19	12 55	0 55	21 40	0 2	8 17	0 32	16 54	0 19	21 50	1 32	12 23	12 33	8 1	2 47	4 26
W21	7 34	27 56	4 26	13 26	2 9	13 31	1 16	11 8	2 19	12 59	0 55	21 40	0 2	8 18	0 32	16 54	0 19	21 50	1 32	12 23	12 34	7 57	2 46	4 26
T 22	7 11	26 33	3 42	12 47	2 8	13 6	1 17	11 11	2 19	13 3	0 54	21 39	0 2	8 19	0 32	16 55	0 19	21 50	1 32	12 22	12 35	7 54	2 44	4 26
F 23	6 48	23 57	2 50	12 7	2 6	12 40	1 18	11 13	2 19	13 6	0 54	21 38	0 2	8 20	0 32	16 55	0 19	21 50	1 32	12 22	12 36	7 51	2 43	4 26
S 24																								

SWISS EPHEMERIS for the year 1431

MARCH 1431 JC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
T 1	11 7 16	18°41'23	6°18	14°58	7°36	5°55	8°19	22°50	22°57	14°R 4	6°R28	27°R30	26°33	8°17	13° 5
F 2	11 11 12	19°41'01	18°18	16°54	8°50	5°57	8°31	22°55	23° 0	14°Ω 3	6°28	27°26	26°30	8°24	13° 9
S 3	11 15 9	20°40'36	0°12	18°50	10° 5	5°59	8°43	23° 0	23° 3	14° 1	6°28	27°22	26°27	8°30	13°13
S 4	11 19 6	21°40'10	12°44	20°48	11°19	5°R59	8°54	23° 5	23° 6	14° 0	6°27	27°19	26°23	8°37	13°16
M 5	11 23 2	22°39'42	25°15	22°47	12°34	5°59	9° 6	23° 9	23° 9	13°59	6°27	27°15	26°20	8°44	13°20
T 6	11 26 59	23°39'13	8°1	24°47	13°48	5°58	9°18	23°14	23°12	13°58	6°27	27°13	26°17	8°50	13°24
W 7	11 30 55	24°38'41	21° 6	26°48	15° 3	5°57	9°30	23°19	23°15	13°56	6°27	27°D12	26°14	8°57	13°28
T 8	11 34 52	25°38'08	4°32	28°49	16°18	5°54	9°42	23°23	23°18	13°55	6°27	27°12	26°11	9° 4	13°31
F 9	11 38 48	26°37'33	18°20	0°Y51	17°32	5°51	9°54	23°28	23°22	13°54	6°27	27°14	26° 8	9°10	13°35
S 10	11 42 45	27°36'56	2°32	2°53	18°46	5°47	10° 6	23°32	23°25	13°53	6°27	27°15	26° 4	9°17	13°39
S 11	11 46 41	28°36'18	17° 7	4°55	20° 1	5°42	10°18	23°36	23°28	13°52	6°27	27°16	26° 1	9°24	13°42
M12	11 50 38	29°35'37	2°H 0	6°57	21°15	5°37	10°31	23°40	23°31	13°51	6°D27	27°R17	25°58	9°30	13°46
T 13	11 54 35	0°Y34'55	17° 5	8°59	22°30	5°31	10°43	23°45	23°34	13°50	6°27	27°15	25°55	9°37	13°50
W14	11 58 31	1°34'10	2°Y15	11° 0	23°44	5°24	10°56	23°49	23°38	13°49	6°27	27°12	25°52	9°44	13°53
T 15	12 2 28	2°33'23	17°18	13° 0	24°59	5°16	11° 8	23°53	23°41	13°48	6°27	27° 8	25°49	9°50	13°57
F 16	12 6 24	3°32'35	2°B 6	14°58	26°13	5° 7	11°21	23°56	23°44	13°47	6°27	27° 2	25°45	9°57	14° 1
S 17	12 10 21	4°31'44	16°31	16°55	27°28	4°58	11°33	24° 0	23°47	13°46	6°27	26°57	25°42	10° 3	14° 4
S 18	12 14 17	5°30'51	0°II 30	18°50	28°42	4°48	11°46	24° 4	23°51	13°45	6°27	26°52	25°39	10°10	14° 8
M19	12 18 14	6°29'55	14° 0	20°42	29°56	4°37	11°59	24° 8	23°54	13°44	6°27	26°48	25°36	10°17	14°11
T 20	12 22 10	7°28'58	27° 2	22°31	1°Y11	4°25	12°12	24°11	23°57	13°43	6°27	26°46	25°33	10°23	14°15
W21	12 26 7	8°27'58	9°240	24°17	2°25	4°13	12°25	24°15	24° 1	13°42	6°28	26°D45	25°29	10°30	14°18
T 22	12 30 4	9°26'55	21°58	25°59	3°39	4° 0	12°37	24°18	24° 4	13°41	6°28	26°46	25°26	10°37	14°22
F 23	12 34 0	10°25'51	4°Ω 1	27°38	4°54	3°46	12°50	24°21	24° 8	13°41	6°28	26°47	25°23	10°43	14°25
S 24	12 37 57	11°24'44	15°53	29°12	6° 8	3°31	13° 4	24°25	24°11	13°40	6°28	26°49	25°20	10°50	14°29
S 25	12 41 53	12°23'34	27°41	0°B41	7°22	3°16	13°17	24°28	24°14	13°39	6°29	26°R49	25°17	10°57	14°32
M26	12 45 50	13°22'23	9°H28	2° 6	8°36	3° 1	13°30	24°31	24°18	13°39	6°29	26°48	25°14	11° 3	14°36
T 27	12 49 46	14°21'09	21°17	3°26	9°51	2°44	13°43	24°34	24°21	13°38	6°29	26°45	25°10	11°10	14°39
W28	12 53 43	15°19'53	3°A 11	4°40	11° 5	2°27	13°56	24°37	24°24	13°37	6°30	26°40	25° 7	11°17	14°43
T 29	12 57 39	16°18'35	15°13	5°50	12°19	2° 9	14° 9	24°39	24°28	13°37	6°30	26°33	25° 4	11°23	14°46
F 30	13 1 36	17°17'15	27°24	6°53	13°33	1°51	14°23	24°42	24°31	13°36	6°31	26°24	25° 1	11°30	14°49
S 31	13 5 32	18°Y15'54	9°M46	7°B51	14°Y48	1°M33	14°B36	24°B45	24°Y35	13°B36	6°B31	26°A14	24°A58	11°H37	14°B52

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	4s29	5s32	3s18	7s34	1s46	10s 2	1s23	11s22	2n18	13n29	0s53	21s33	0n 1	8n27	0s32	16n58	0n19	21n51	1s31	12s23	12s42	7n31	2s34	4n26
F 2	4 6 10	5 7 4	4 4	6 44	1 41	9 35	1 24	11 23	2 18	13 33	0 53	21 33	0 1	8 28	0 32	16 58	0 19	21 51	1 31	12 24	12 43	7 28	2 33	4 26
S 3	3 42 16	2 4 40	5 53	1 35	9 7	1 24	11 24	2 17	13 37	0 53	21 32	0 1	8 29	0 32	16 58	0 19	21 51	1 31	12 25	12 44	7 24	2 32	4 26	
S 4	3 19 20	32 5 4	5 1	1 29	8 39	1 25	11 24	2 17	13 41	0 52	21 31	0 1	8 30	0 32	16 59	0 19	21 51	1 31	12 27	12 46	7 21	2 30	4 26	
M 5	2 55 24	13 5 14	4 8	1 22	8 11	1 25	11 24	2 17	13 45	0 52	21 30	0 1	8 32	0 32	16 59	0 19	21 51	1 31	12 28	12 47	7 18	2 29	4 26	
T 6	2 32 26	47 5 9	3 13	1 15	7 43	1 26	11 24	2 16	13 49	0 52	21 30	0 1	8 33	0 32	16 59	0 19	21 51	1 30	12 29	12 48	7 15	2 27	4 26	
W 7	2 8 28	0 4 47	2 18	1 7	7 14	1 26	11 24	2 16	13 53	0 52	21 29	0 1	8 34	0 32	17 0	0 19	21 51	1 30	12 29	12 49	7 11	2 26	4 26	
T 8	1 44 27	36 4 10	1 22	0 59	6 45	1 26	11 24	2 16	13 57	0 52	21 28	0 1	8 35	0 32	17 0	0 19	21 51	1 30	12 29	12 50	7 8	2 25	4 26	
F 9	1 21 25	31 3 18	0 25	0 50	6 16	1 27	11 23	2 15	14 1	0 52	21 28	0 1	8 36	0 32	17 0	0 19	21 51	1 30	12 28	12 51	7 5	2 23	4 26	
S 10	0 57 21	47 2 12	0n32	0 40	5 47	1 27	11 23	2 15	14 5	0 51	21 27	0 1	8 38	0 32	17 1	0 19	21 52	1 30	12 28	12 52	7 1	2 22	4 26	
S 11	0 33 16	38 0 55	1 30	0 30	5 18	1 27	11 22	2 14	14 9	0 51	21 26	0 1	8 39	0 32	17 1	0 19	21 52	1 30	12 27	12 53	6 58	2 20	4 26	
M12	0 10 10	24 0n26	2 28	0 20	4 48	1 27	11 20	2 13	14 13	0 51	21 26	0 1	8 40	0 32	17 1	0 19	21 52	1 30	12 27	12 54	6 55	2 19	4 26	
T 13	0n14	3 29 1 46	3 26	0 9	4 19	1 27	11 19	2 13	14 17	0 51	21 25	0 0	8 41	0 32	17 2	0 19	21 52	1 30	12 28	12 55	6 51	2 18	4 26	
W14	0 38 3n38	2 59 4 24	0n 2	3 49	1 27	11 17	2 12	14 21	0 51	21 24	0 0	8 42	0 32	17 2	0 19	21 52	1 30	12 29	12 56	6 48	2 16	4 26		
T 15	1 1 10	30 4 0	5 21	0 13	3 19	1 27	11 15	2 11	14 25	0 51	21 24	0 0	8 44	0 32	17 2	0 19	21 52	1 30	12 30	12 57	6 45	2 15	4 26	
F 16	1 25 16	39 4 42	6 18	0 25	2 50	1 26	11 13	2 10	14 29	0 50	21 23	0 0	8 45	0 32	17 3	0 19	21 52	1 29	12 32	12 58	6 42	2 13	4 26	
S 17	1 48 21	43 5 6	7 14	0 36	2 20	1 26	11 11	2 10	14 33	0 50	21 23	0 0	8 46	0 32	17 3	0 19	21 52	1 29	12 34	13 0	6 38	2 12	4 26	
S 18	2 12 25	23 5 11	8 8	0 48	1 50	1 26	11 8	2 9	14 37	0 50	21 22	0s 0	8 47	0 32	17 3	0 19	21 52	1 29	12 36	13 1	6 35	2 11	4 26	
M19	2 35 27	28 4 57	9 2	1 0	1 20	1 25	11 6	2 8	14 41	0 50	21 21	0 0	8 49	0 32	17 3	0 19	21 52	1 29	12 37	13 2	6 32	2 9	4 26	
T 20	2 59 27	58 4 29	9 54	1 11	0 49	1 25	11 3	2 7	14 45	0 50	21 21	0 0	8 50	0 32	17 4	0 19	21 52	1 29	12 38	13 3	6 28	2 8	4 26	
W21	3 22 26	57 3 48	10 44	1 23	0 19	1 24	11 0	2 6	14 49	0 50	21 20	0 0	8 51	0 32	17 4	0 19	21 53	1 29	12 38	13 4	6 25	2 6	4 26	
T 22	3 45 24	39 2 58	11 32	1 34	0n11	1 24	10 56	2 4	14 53	0 49	21 20	0 0	8 52	0 32	17 4	0 19	21 53	1 29	12 38	13 5	6 22	2 5	4 26	
F 23	4 9 21	16 2 1	12 17	1 45	0 41	1 23	10 53	2 3	14 58	0 49	21 19	0 0	8 54	0 32	17 4	0 19	21 53	1 29	12 37	13 6	6 18	2 4	4 26	
S 24	4 32 17	4 0 59	13 1	1 55	1 11	1 22	10 49	2 2	15 2	0 49	21 19	0 1	8 55	0 32	17 5	0 19	21 53	1 29	12 37	13 7	6 15			

SWISS EPHEMERIS for the year 1431

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	13 9 29	19°14'30	22°18	8♂44	16♂2	1°R13	14♂50	24♂47	24♂38	13°R35	6♂31	26°R 5	24♂54	11♂43	14♂56	
M 2	13 13 26	20°13'05	5♂2	9°30	17°16	0♂54	15° 3	24°50	24°42	13♂35	6°32	25♂56	24°51	11°50	14°59	
T 3	13 17 22	21°11'37	17°59	10°11	18°30	0°33	15°17	24°52	24°45	13°34	6°32	25°50	24°48	11°56	15° 2	
W 4	13 21 19	22°10'09	1♂9	10°46	19°44	0°13	15°30	24°54	24°49	13°34	6°33	25°45	24°45	12° 3	15° 5	
T 5	13 25 15	23° 8'38	14°35	11°15	20°58	29♂52	15°44	24°56	24°52	13°33	6°34	25°43	24°42	12°10	15° 9	
F 6	13 29 12	24° 7'06	28°17	11°37	22°12	29°31	15°57	24°58	24°55	13°33	6°34	25°D43	24°39	12°16	15°12	
S 7	13 33 8	25° 5'33	12♂17	11°54	23°27	29° 9	16°11	25° 0	24°59	13°33	6°35	25°44	24°35	12°23	15°15	
S 8	13 37 5	26° 3'57	26°34	12° 5	24°41	28°47	16°25	25° 2	25° 2	13°32	6°35	25°R44	24°32	12°30	15°18	
M 9	13 41 1	27° 2'20	11♂7	12°R11	25°55	28°25	16°38	25° 4	25° 6	13°32	6°36	25°43	24°29	12°36	15°21	
T 10	13 44 58	28° 0'42	25°52	12°10	27° 9	28° 3	16°52	25° 6	25° 9	13°32	6°37	25°40	24°26	12°43	15°24	
W 11	13 48 55	28°59'02	10♂44	12° 5	28°23	27°41	17° 6	25° 7	25°13	13°32	6°37	25°34	24°23	12°50	15°27	
T 12	13 52 51	29°57'20	25°34	11°54	29°37	27°18	17°20	25° 9	25°16	13°32	6°38	25°26	24°20	12°56	15°30	
F 13	13 56 48	0♂55'36	10♂15	11°38	0♂51	26°56	17°33	25°10	25°20	13°32	6°39	25°17	24°16	13° 3	15°33	
S 14	14 0 44	1°53'51	24°37	11°18	2° 5	26°34	17°47	25°11	25°23	13°31	6°39	25° 6	24°13	13°10	15°35	
S 15	14 4 41	2°52'03	8♂37	10°53	3°19	26°11	18° 1	25°13	25°26	13°31	6°40	24°56	24°10	13°16	15°38	
M 16	14 8 37	3°50'14	22° 9	10°25	4°33	25°49	18°15	25°14	25°30	13°D31	6°41	24°48	24° 7	13°23	15°41	
T 17	14 12 34	4°48'23	5♂15	9°54	5°47	25°27	18°29	25°15	25°33	13°31	6°42	24°42	24° 4	13°30	15°44	
W 18	14 16 30	5°46'30	17°56	9°21	7° 1	25° 5	18°43	25°16	25°37	13°31	6°43	24°39	24° 0	13°36	15°47	
T 19	14 20 27	6°44'35	0♂16	8°45	8°15	24°44	18°57	25°16	25°40	13°32	6°44	24°38	23°57	13°43	15°49	
F 20	14 24 24	7°42'38	12°20	8° 9	9°29	24°23	19°11	25°17	25°44	13°32	6°44	24°D37	23°54	13°50	15°52	
S 21	14 28 20	8°40'39	24°14	7°31	10°43	24° 2	19°25	25°18	25°47	13°32	6°45	24°R38	23°51	13°56	15°54	
S 22	14 32 17	9°38'38	6♂2	6°54	11°57	23°41	19°39	25°18	25°50	13°32	6°46	24°37	23°48	14° 3	15°57	
M 23	14 36 13	10°36'35	17°49	6°18	13°11	23°21	19°53	25°19	25°54	13°32	6°47	24°35	23°45	14°10	15°59	
T 24	14 40 10	11°34'30	29°42	5°43	14°25	23° 2	20° 7	25°19	25°57	13°32	6°48	24°30	23°41	14°16	16° 2	
W 25	14 44 6	12°32'24	11♂42	5°10	15°39	22°43	20°21	25°19	26° 0	13°33	6°49	24°23	23°38	14°23	16° 4	
T 26	14 48 3	13°30'16	23°54	4°39	16°52	22°24	20°35	25°19	26° 4	13°33	6°50	24°13	23°35	14°30	16° 7	
F 27	14 51 59	14°28'06	6♂18	4°12	18° 6	22° 6	20°49	25°R19	26° 7	13°33	6°51	24° 1	23°32	14°36	16° 9	
S 28	14 55 56	15°25'55	18°55	3°47	19°20	21°49	21° 3	25°19	26°10	13°34	6°52	23°49	23°29	14°43	16°11	
S 29	14 59 53	16°23'42	1♂46	3°27	20°34	21°32	21°17	25°19	26°14	13°34	6°53	23°36	23°26	14°49	16°14	
M 30	15 3 49	17♂21'28	14♂50	3♂10	21♂48	21♂15	21♂31	25♂19	26♂17	13♂35	6♂54	23♂24	23♂22	14♂56	16♂16	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	7n33	23s19	5s 5	17n10	2n52	5n11	1s14	10s14	1n49	15n34	0s48	21s15	0s 1	9n 5	0s32	17n 6
M 2	7 56	26 9	5 2	17 28	2 55	5 41	1 13	10 9	1 47	15 38	0 48	21 15	0 1	9 6	0 32	17 6
T 3	8 18	27 41	4 44	17 43	2 57	6 10	1 11	10 3	1 46	15 42	0 48	21 15	0 1	9 7	0 32	17 6
W 4	8 40	27 41	4 10	17 55	2 58	6 40	1 10	9 58	1 44	15 46	0 48	21 14	0 1	9 9	0 32	17 6
T 5	9 1 26	4 3	2 22	18 4	2 58	7 9	1 9	9 53	1 42	15 51	0 48	21 14	0 1	9 10	0 32	17 7
F 6	9 23	22 53	2 22	18 10	2 56	7 38	1 7	9 47	1 39	15 55	0 47	21 14	0 2	9 11	0 32	17 7
S 7	9 44	18 19	1 11	18 12	2 53	8 7	1 6	9 41	1 37	15 59	0 47	21 14	0 2	9 13	0 32	17 7
S 8	10 6	12 38	0n 4	18 12	2 49	8 36	1 4	9 36	1 35	16 3	0 47	21 13	0 2	9 14	0 32	17 7
M 9	10 27	6 10	1 21	18 8	2 44	9 4	1 2	9 30	1 33	16 7	0 47	21 13	0 2	9 15	0 32	17 7
T 10	10 48	0n42	2 34	18 1	2 37	9 33	1 1	9 24	1 31	16 11	0 47	21 13	0 2	9 16	0 32	17 7
W 11	11 9	7 34	3 36	17 52	2 29	10 1	0 59	9 19	1 28	16 15	0 47	21 13	0 2	9 18	0 32	17 7
T 12	11 30	14 0	4 23	17 40	2 19	10 29	0 57	9 13	1 26	16 19	0 47	21 12	0 2	9 19	0 32	17 7
F 13	11 50	19 34	4 53	17 25	2 9	10 56	0 56	9 7	1 23	16 23	0 47	21 12	0 2	9 20	0 32	17 7
S 14	12 10	23 53	5 3	17 7	1 57	11 24	0 54	9 1	1 21	16 27	0 46	21 12	0 2	9 21	0 32	17 7
S 15	12 30	26 39	4 55	16 47	1 44	11 51	0 52	8 56	1 18	16 31	0 46	21 12	0 2	9 23	0 32	17 7
M 16	12 50	27 46	4 30	16 25	1 30	12 18	0 50	8 50	1 16	16 35	0 46	21 12	0 2	9 24	0 32	17 7
T 17	13 10	27 16	3 51	16 1	1 15	12 44	0 48	8 44	1 13	16 39	0 46	21 12	0 2	9 25	0 32	17 7
W 18	13 29	25 19	3 2	15 35	0 59	13 10	0 46	8 39	1 11	16 43	0 46	21 12	0 3	9 26	0 32	17 7
T 19	13 49	22 12	2 6	15 8	0 43	13 36	0 44	8 33	1 8	16 46	0 46	21 12	0 3	9 28	0 32	17 7
F 20	14 8	18 11	1 5	14 41	0 26	14 2	0 42	8 28	1 5	16 50	0 46	21 12	0 3	9 29	0 32	17 7
S 21	14 26	13 31	0 2	14 12	0 9	14 27	0 40	8 23	1 3	16 54	0 46	21 12	0 3	9 30	0 32	17 7
S 22	14 45	8 24	1s 0	13 44	0s 8	14 52	0 38	8 18	1 0	16 58	0 46	21 12	0 3	9 31	0 32	17 7
M 23	15 3	2 59	2 0	13 15	0 26	15 17	0 36	8 13	0 57	17 2	0 46	21 12	0 3	9 33	0 32	17 7
T 24	15 21	2s33	2 55	12 48	0 43	15 41	0 33	8 8	0 54	17 6	0 45	21 12	0 3	9 34	0 32	17 7
W 25	15 39	8 3	3 42	12 21	1 0	16 5	0 31	8 4	0 52	17 10	0 45	21 12	0 3	9 35	0 32	17 7
T 26	15 57	13 19	4 20	11 55	1 16	16 28	0 29	7 59	0 49	17 14	0 45	21 12	0 3	9 36	0 32	17 7
F 27	16 14	18 10	4 46	11 31	1 32	16 51	0 27	7 55	0 46	17 17	0 45	21 12	0 3	9 37	0 32	17 7
S 28	16 31	22 18	4 59	11 8	1 47	17 13	0 25	7 51	0 43	17 21	0 45	21 12	0 3	9 39	0 32	17 6
S 29	16 48	25 26	4 57	10 48	2 1	17 35	0 22	7 48	0 40	17 25	0 45	21 12	0 4	9 40	0 32	17 6
M 30	17n 4	27s17	4s40	10n30	2s15	17n57	0s20	7s44	0n38	17n29	0s45	21s12	0s 4	9n41	0s32	17n 6

Julian Day Number = 2243820.5, Delta T = 277.51 sec
 Ecliptic obliquity = 23°30'55", Nutation = 0°00'09"
 Ayanamsha: Fagan/Bradley = 16°48'22", Lahiri = 15°55'21" Julian Calendar 1 Apr. 1431 == Greg. Calendar 10 Apr. 1431

SWISS EPHEMERIS for the year 1431

MAY 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	15 7 46	18♌19'13	28♌ 6	2°R58	23♌ 2	21°R 0	21♌45	25°R18	26♌20	13♌35	6♌55	23°R15	23♌19	15♌ 3	16♌18
W 2	15 11 42	19°16'57	11♌32	2♌50	24°15	20♌45	21°59	25♌18	26°23	13°36	6°56	23°R 9	23°16	15° 9	16°20
T 3	15 15 39	20°14'39	25° 9	2°D47	25°29	20°31	22°13	25°17	26°27	13°36	6°57	23° 5	23°13	15°16	16°22
F 4	15 19 35	21°12'20	8♌55	2°48	26°43	20°17	22°28	25°17	26°30	13°37	6°59	23° 3	23°10	15°23	16°24
S 5	15 23 32	22°10'01	22°53	2°53	27°57	20° 5	22°42	25°16	26°33	13°37	7° 0	23° 3	23° 6	15°29	16°26
S 6	15 27 28	23° 7'40	7♌ 0	3° 3	29°10	19°53	22°56	25°15	26°36	13°38	7° 1	23° 3	23° 3	15°36	16°28
M 7	15 31 25	24° 5'18	21°16	3°18	0♌24	19°42	23°10	25°14	26°39	13°39	7° 2	23° 1	23° 0	15°43	16°30
T 8	15 35 22	25° 2'55	5♌40	3°37	1°38	19°31	23°24	25°13	26°43	13°39	7° 3	22°58	22°57	15°49	16°32
W 9	15 39 18	26° 0'32	20° 8	4° 1	2°52	19°22	23°38	25°12	26°46	13°40	7° 4	22°51	22°54	15°56	16°34
T 10	15 43 15	26°58'07	4♌34	4°28	4° 5	19°13	23°52	25°11	26°49	13°41	7° 6	22°42	22°51	16° 3	16°36
F 11	15 47 11	27°55'41	18°53	5° 0	5°19	19° 5	24° 6	25° 9	26°52	13°42	7° 7	22°31	22°47	16° 9	16°37
S 12	15 51 8	28°53'14	2♌59	5°36	6°33	18°58	24°20	25° 8	26°55	13°42	7° 8	22°19	22°44	16°16	16°39
S 13	15 55 4	29°50'46	16°46	6°16	7°47	18°51	24°34	25° 7	26°58	13°43	7° 9	22° 8	22°41	16°23	16°41
M14	15 59 1	0♌48'17	0♌12	7° 0	9° 0	18°46	24°48	25° 5	27° 1	13°44	7°11	21°58	22°38	16°29	16°42
T 15	16 2 57	1°45'47	13°14	7°47	10°14	18°41	25° 2	25° 3	27° 4	13°45	7°12	21°51	22°35	16°36	16°44
W16	16 6 54	2°43'16	25°53	8°38	11°28	18°37	25°16	25° 1	27° 7	13°46	7°13	21°46	22°32	16°43	16°45
T 17	16 10 51	3°40'43	8♌14	9°33	12°41	18°34	25°30	25° 0	27°10	13°47	7°15	21°44	22°28	16°49	16°47
F 18	16 14 47	4°38'09	20°19	10°31	13°55	18°32	25°44	24°58	27°13	13°48	7°16	21°D43	22°25	16°56	16°48
S 19	16 18 44	5°35'34	2♌13	11°32	15° 9	18°30	25°58	24°56	27°16	13°49	7°17	21°R43	22°22	17° 3	16°49
S 20	16 22 40	6°32'57	14° 3	12°37	16°22	18°D30	26°12	24°53	27°19	13°50	7°19	21°43	22°19	17° 9	16°51
M21	16 26 37	7°30'20	25°52	13°45	17°36	18°30	26°26	24°51	27°21	13°51	7°20	21°42	22°16	17°16	16°52
T 22	16 30 33	8°27'41	7♌48	14°56	18°50	18°31	26°40	24°49	27°24	13°52	7°21	21°38	22°12	17°23	16°53
W23	16 34 30	9°25'01	19°53	16°11	20° 3	18°33	26°54	24°47	27°27	13°53	7°23	21°32	22° 9	17°29	16°54
T 24	16 38 26	10°22'20	2♌12	17°28	21°17	18°35	27° 8	24°44	27°30	13°55	7°24	21°24	22° 6	17°36	16°55
F 25	16 42 23	11°19'39	14°47	18°48	22°30	18°39	27°22	24°42	27°32	13°56	7°25	21°14	22° 3	17°43	16°56
S 26	16 46 20	12°16'56	27°40	20°12	23°44	18°43	27°35	24°39	27°35	13°57	7°27	21° 2	22° 0	17°49	16°57
S 27	16 50 16	13°14'13	10♌49	21°38	24°57	18°48	27°49	24°36	27°38	13°58	7°28	20°51	21°57	17°56	16°58
M28	16 54 13	14°11'29	24°15	23° 8	26°11	18°53	28° 3	24°34	27°40	14° 0	7°30	20°41	21°53	18° 3	16°59
T 29	16 58 9	15° 8'45	7♌54	24°40	27°25	19° 0	28°17	24°31	27°43	14° 1	7°31	20°33	21°50	18° 9	16°59
W30	17 2 6	16° 6'00	21°43	26°15	28°38	19° 7	28°31	24°28	27°46	14° 2	7°33	20°27	21°47	18°16	17° 0
T 31	17 6 2	17♌ 3'14	5♌41	27♌53	29♌52	19°14	28♌44	24♌25	27♌48	14♌ 4	7♌34	20°24	21°44	18♌23	17♌ 1

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	17n20	27s37	4s 7	10n14	2s27	18n18	0s18	7s41	0n35	17n32	0s45	21s12	0s 4	9n42	0s32	17n 6	0n19	21n55	1s25	13s49	13s47	4n 9	1s16	4n30
W 2	17 36	26 21	3 21	10 0	2 39	18 39	0 15	7 38	0 32	17 36	0 45	21 12	0 4	9 43	0 32	17 6	0 19	21 55	1 25	13 51	13 48	4 6	1 15	4 30
T 3	17 52	23 30	2 22	9 49	2 49	18 59	0 13	7 35	0 29	17 40	0 45	21 13	0 4	9 45	0 32	17 6	0 19	21 55	1 25	13 52	13 49	4 2	1 14	4 31
F 4	18 7	19 16	1 14	9 41	2 59	19 19	0 11	7 32	0 27	17 44	0 45	21 13	0 4	9 46	0 32	17 6	0 19	21 55	1 25	13 52	13 50	3 59	1 13	4 31
S 5	18 22	13 57	0 1	9 35	3 7	19 38	0 8	7 30	0 24	17 47	0 45	21 13	0 4	9 47	0 32	17 5	0 19	21 55	1 25	13 53	13 51	3 56	1 12	4 31
S 6	18 37	7 50	1n13	9 31	3 14	19 57	0 6	7 28	0 21	17 51	0 44	21 13	0 4	9 48	0 32	17 5	0 19	21 55	1 25	13 53	13 53	3 52	1 12	4 31
M 7	18 51	1 17	2 23	9 31	3 21	20 15	0 3	7 26	0 19	17 54	0 44	21 14	0 4	9 49	0 32	17 5	0 19	21 55	1 25	13 53	13 54	3 49	1 11	4 31
T 8	19 5	5n23	3 25	9 32	3 26	20 32	0 1	7 25	0 16	17 58	0 44	21 14	0 4	9 50	0 32	17 5	0 19	21 55	1 25	13 54	13 55	3 46	1 10	4 31
W 9	19 19	11 48	4 13	9 36	3 30	20 49	0n 1	7 24	0 14	18 2	0 44	21 14	0 4	9 51	0 32	17 5	0 19	21 55	1 25	13 57	13 56	3 42	1 9	4 32
T 10	19 33	17 34	4 46	9 42	3 34	21 6	0 4	7 23	0 11	18 5	0 44	21 14	0 5	9 53	0 32	17 4	0 19	21 55	1 25	14 0	13 57	3 39	1 8	4 32
F 11	19 46	22 18	5 0	9 50	3 36	21 22	0 6	7 22	0 8	18 9	0 44	21 15	0 5	9 54	0 32	17 4	0 19	21 55	1 24	14 3	13 58	3 36	1 7	4 32
S 12	19 58	25 39	4 55	10 1	3 38	21 37	0 9	7 21	0 6	18 12	0 44	21 15	0 5	9 55	0 32	17 4	0 19	21 55	1 24	14 7	13 59	3 32	1 6	4 32
S 13	20 11	27 24	4 34	10 13	3 38	21 51	0 11	7 21	0 3	18 16	0 44	21 15	0 5	9 56	0 32	17 4	0 19	21 55	1 24	14 11	14 0	3 29	1 6	4 32
M14	20 23	27 28	3 57	10 28	3 38	22 6	0 13	7 22	0 1	18 19	0 44	21 16	0 5	9 57	0 32	17 3	0 19	21 55	1 24	14 14	14 1	3 26	1 5	4 33
T 15	20 35	25 59	3 9	10 44	3 37	22 19	0 16	7 22	0s 2	18 23	0 44	21 16	0 5	9 58	0 32	17 3	0 19	21 55	1 24	14 16	14 2	3 22	1 4	4 33
W16	20 46	23 12	2 12	11 2	3 35	22 32	0 18	7 23	0 4	18 26	0 44	21 17	0 5	9 59	0 32	17 3	0 19	21 55	1 24	14 18	14 3	3 19	1 3	4 33
T 17	20 57	19 24	1 11	11 22	3 32	22 44	0 21	7 24	0 6	18 30	0 44	21 17	0 5	10 0	0 32	17 3	0 19	21 55	1 24	14 18	14 4	3 16	1 3	4 33
F 18	21 8	14 53	0 7	11 43	3 29	22 55	0 23	7 25	0 9	18 33	0 44	21 18	0 5	10 1	0 32	17 2	0 19	21 55	1 24	14 19	14 5	3 12	1 2	4 33
S 19	21 18	9 51	0s56	12 6	3 25	23 6	0 25	7 27	0 11	18 36	0 44	21 18	0 5	10 2	0 32	17 2	0 19	21 55	1 24	14 19	14 6	3 9	1 1	4 33
S 20	21 28	4 31	1 56	12 30	3 20	23 16	0 28	7 29	0 13	18 40	0 43	21 18	0 5	10 3	0 32	17 2	0 19	21 55	1 24	14 19	14 7	3 6	1 1	4 34
M21	21 38	0s58	2 51	12 55	3 15	23 26	0 30	7 31	0 16	18 43	0 43	21 19	0 6	10 4	0 32	17 1	0 19	21 55	1 24	14 19	14 8	3 2	1 0	4 34
T 22	21 47	6 27	3 39	13 22	3 9	23 35	0 32	7 33	0 18	18 46	0 43	21 19	0 6	10 5	0 32	17 1	0 19	21 55	1 24	14 20	14 9	2 59	0 59	4 34
W23	21 56	11 46	4 18	13 50	3 2	23 43	0 35	7 36	0 20	18 49	0 43	21 20	0 6	10 6	0 32	17 1	0 19	21 55	1 23	14 22	14 10	2 56	0 59	4 34
T 24	22 4 16	44 4	4 46	14 18	2 55	23 50	0 37	7 39	0 22	18 53	0 43	21 20	0 6	10 7	0 32	17 0	0 19	21 55	1 23	14 25	14 11	2 52	0 58	4 34
F 25	22 13 21	6 5	0 14	48 2	2 47	23 57	0 39	7 42	0 24	18 56	0 43	21 21	0 6	10 8	0 32	17 0	0 19	21 55	1 23	14 28	14 12	2 49	0 58	4 35
S 26	22 20 24	34 5	0 15	18 2	2 39	24 3	0 41	7 46	0 26	18 59	0 43	21 22	0 6	10 9	0 32	17 0	0 19	21 55	1 23	14 32	14 13	2 46	0 57	4 35
S 27	22 28 26	50 4	4 44	15 49	2 30	24 9	0 44	7 49	0 28	19 2	0 43	21 22	0 6	10 10	0 32	16 59	0 19	21 55	1 23	14 35	14 14	2 42	0 56	4 35
M28	22 35 27	36 4	4 13	16 21	2 21	24 13	0 46	7 53	0 30	19 5	0 43	21 23	0 6	10 11	0 32	16 59	0 19	21 55	1 23	14 39	14 15	2 39	0 56	4 35
T 29	22 41 26	42																						

SWISS EPHEMERIS for the year 1431

JUNE 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
F 1	17 9 59	18II 0'29	19♌43	29♉34	1♄ 5	19♌23	28♉58	24°R22	27°Y51	14♌ 5	7♄36	20°D24	21♌41	18♉29	17♉ 2
S 2	17 13 56	18°57'43	3♌49	1II18	2°19	19°32	29°11	24♉19	27°53	14° 6	7°37	20°24	21°38	18°36	17° 2
S 3	17 17 52	19°54'56	17°58	3° 4	3°32	19°42	29°25	24°15	27°55	14° 8	7°38	20°R24	21°34	18°43	17° 3
M 4	17 21 49	20°52'10	2°Y 7	4°54	4°46	19°52	29°39	24°12	27°58	14° 9	7°40	20°24	21°31	18°49	17° 3
T 5	17 25 45	21°49'23	16°16	6°46	5°59	20° 3	29°52	24° 9	28° 0	14°11	7°41	20°22	21°28	18°56	17° 3
W 6	17 29 42	22°46'37	0♉23	8°40	7°13	20°15	0II 6	24° 5	28° 3	14°12	7°43	20°17	21°25	19° 3	17° 4
T 7	17 33 38	23°43'50	14°24	10°37	8°26	20°28	0°19	24° 2	28° 5	14°14	7°44	20°10	21°22	19° 9	17° 4
F 8	17 37 35	24°41'04	28°16	12°37	9°40	20°41	0°33	23°58	28° 7	14°15	7°46	20° 2	21°18	19°16	17° 4
S 9	17 41 31	25°38'17	11II57	14°38	10°53	20°54	0°46	23°55	28° 9	14°17	7°47	19°53	21°15	19°23	17° 5
S 10	17 45 28	26°35'30	25°23	16°42	12° 6	21° 9	0°59	23°51	28°11	14°19	7°49	19°44	21°12	19°29	17° 5
M11	17 49 25	27°32'43	8♄31	18°47	13°20	21°23	1°13	23°47	28°14	14°20	7°51	19°37	21° 9	19°36	17° 5
T 12	17 53 21	28°29'55	21°21	20°54	14°33	21°39	1°26	23°44	28°16	14°22	7°52	19°31	21° 6	19°43	17°R 5
W13	17 57 18	29°27'07	3♌54	23° 2	15°47	21°55	1°39	23°40	28°18	14°24	7°54	19°28	21° 3	19°49	17° 5
T 14	18 1 14	0♄24'19	16°10	25°11	17° 0	22°12	1°52	23°36	28°20	14°25	7°55	19°D27	20°59	19°56	17° 5
F 15	18 5 11	1°21'31	28°13	27°21	18°14	22°29	2° 5	23°32	28°22	14°27	7°57	19°27	20°56	20° 3	17° 4
S 16	18 9 7	2°18'42	10♉ 7	29°31	19°27	22°46	2°18	23°28	28°24	14°29	7°58	19°28	20°53	20° 9	17° 4
S 17	18 13 4	3°15'53	21°57	1♄42	20°40	23° 5	2°31	23°24	28°26	14°30	8° 0	19°29	20°50	20°16	17° 4
M18	18 17 0	4°13'03	3♌47	3°52	21°54	23°23	2°44	23°20	28°27	14°32	8° 1	19°R30	20°47	20°22	17° 4
T 19	18 20 57	5°10'14	15°44	6° 2	23° 7	23°43	2°57	23°16	28°29	14°34	8° 3	19°29	20°44	20°29	17° 3
W20	18 24 54	6° 7'24	27°51	8°12	24°21	24° 2	3°10	23°12	28°31	14°36	8° 4	19°27	20°40	20°36	17° 3
T 21	18 28 50	7° 4'34	10♌13	10°20	25°34	24°23	3°23	23° 8	28°33	14°38	8° 6	19°23	20°37	20°42	17° 2
F 22	18 32 47	8° 1'44	22°54	12°28	26°47	24°43	3°36	23° 4	28°34	14°39	8° 7	19°18	20°34	20°49	17° 2
S 23	18 36 43	8°58'55	5♌56	14°34	28° 1	25° 5	3°48	22°59	28°36	14°41	8° 9	19°11	20°31	20°56	17° 1
S 24	18 40 40	9°56'05	19°19	16°39	29°14	25°26	4° 1	22°55	28°38	14°43	8°11	19° 5	20°28	21° 2	17° 1
M25	18 44 36	10°53'15	3♉ 3	18°43	0♌27	25°49	4°13	22°51	28°39	14°45	8°12	18°59	20°24	21° 9	17° 0
T 26	18 48 33	11°50'26	17° 4	20°44	1°40	26°11	4°26	22°47	28°41	14°47	8°14	18°54	20°21	21°16	16°59
W27	18 52 30	12°47'37	1♌18	22°45	2°54	26°34	4°38	22°42	28°42	14°49	8°15	18°52	20°18	21°22	16°58
T 28	18 56 26	13°44'48	15°41	24°43	4° 7	26°58	4°51	22°38	28°44	14°51	8°17	18°D51	20°15	21°29	16°58
F 29	19 0 23	14°41'59	0♌ 7	26°40	5°20	27°21	5° 3	22°34	28°45	14°53	8°18	18°51	20°12	21°36	16°57
S 30	19 4 19	15°39'12	14♌33	28♄35	6♌33	27°46	5II15	22°29	28°Y46	14♌55	8♄20	18°52	20° 9	21°42	16°56

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat									
F 1	22n58	15s 0	0s 4	18n30	1s40	24n25	0n54	8s12	0s38	19n18	0s43	21s25	0s 7	10n15	0s32	16n57	0n19	21n55	1s23	14s44	14s19	2n26	0s54	4n36
S 2	23 3	9 2	1n11	19 2	1 29	24 26	0 56	8 17	0 40	19 21	0 43	21 26	0 7	10 15	0 32	16 57	0 19	21 55	1 23	14 44	14 20	2 22	0 54	4 36
S 3	23 8	2 36	2 22	19 34	1 18	24 26	0 58	8 22	0 41	19 24	0 43	21 27	0 7	10 16	0 32	16 57	0 19	21 55	1 23	14 44	14 21	2 19	0 53	4 36
M 4	23 12	3n58	3 24	20 5	1 7	24 26	1 0	8 28	0 43	19 27	0 43	21 27	0 7	10 17	0 32	16 56	0 19	21 55	1 23	14 44	14 23	2 16	0 53	4 37
T 5	23 16	10 19	4 13	20 36	0 55	24 25	1 2	8 33	0 45	19 29	0 43	21 28	0 7	10 18	0 32	16 56	0 19	21 55	1 23	14 45	14 24	2 12	0 53	4 37
W 6	23 19	16 7	4 47	21 6	0 44	24 23	1 4	8 39	0 47	19 32	0 43	21 29	0 7	10 19	0 32	16 55	0 19	21 55	1 22	14 46	14 25	2 9	0 52	4 37
T 7	23 22	21 2	5 4	21 35	0 32	24 20	1 6	8 46	0 48	19 35	0 43	21 29	0 7	10 20	0 32	16 55	0 19	21 55	1 22	14 48	14 26	2 6	0 52	4 37
F 8	23 24	24 45	5 2	22 3	0 20	24 17	1 7	8 52	0 50	19 38	0 43	21 30	0 7	10 20	0 32	16 54	0 19	21 55	1 22	14 51	14 27	2 2	0 52	4 37
S 9	23 27	26 58	4 43	22 29	0 9	24 13	1 9	8 59	0 51	19 41	0 43	21 31	0 7	10 21	0 32	16 54	0 19	21 55	1 22	14 54	14 28	1 59	0 51	4 38
S 10	23 28	27 35	4 9	22 53	0n 2	24 8	1 11	9 6	0 53	19 44	0 42	21 31	0 7	10 22	0 32	16 53	0 19	21 55	1 22	14 57	14 29	1 56	0 51	4 38
M11	23 30	26 36	3 22	23 15	0 13	24 3	1 12	9 13	0 55	19 46	0 42	21 32	0 7	10 23	0 32	16 53	0 19	21 55	1 22	14 59	14 30	1 52	0 51	4 38
T 12	23 30	24 12	2 25	23 36	0 24	23 57	1 14	9 20	0 56	19 49	0 42	21 33	0 8	10 23	0 32	16 53	0 19	21 55	1 22	15 1	14 31	1 49	0 51	4 38
W13	23 31	20 41	1 23	23 54	0 34	23 50	1 16	9 27	0 58	19 52	0 42	21 34	0 8	10 24	0 32	16 52	0 19	21 55	1 22	15 2	14 32	1 46	0 51	4 39
T 14	23 31	16 19	0 18	24 9	0 44	23 42	1 17	9 35	0 59	19 55	0 42	21 34	0 8	10 25	0 32	16 52	0 19	21 55	1 22	15 2	14 33	1 42	0 50	4 39
F 15	23 30	11 24	0s47	24 22	0 53	23 34	1 18	9 43	1 0	19 57	0 42	21 35	0 8	10 25	0 32	16 51	0 19	21 55	1 22	15 2	14 34	1 39	0 50	4 39
S 16	23 30	6 7	1 49	24 32	1 1	23 25	1 20	9 50	1 2	20 0	0 42	21 36	0 8	10 26	0 32	16 51	0 19	21 55	1 22	15 2	14 35	1 36	0 50	4 39
S 17	23 28	0 39	2 47	24 40	1 9	23 15	1 21	9 59	1 3	20 2	0 42	21 37	0 8	10 27	0 32	16 50	0 19	21 55	1 22	15 1	14 36	1 32	0 50	4 39
M18	23 27	4s49	3 37	24 44	1 17	23 5	1 22	10 7	1 5	20 5	0 42	21 37	0 8	10 27	0 32	16 50	0 19	21 55	1 22	15 1	14 37	1 29	0 50	4 39
T 19	23 25	10 10	4 18	24 46	1 24	22 54	1 24	10 15	1 6	20 7	0 42	21 38	0 8	10 28	0 32	16 49	0 19	21 55	1 22	15 1	14 38	1 26	0 50	4 40
W20	23 22	15 13	4 48	24 45	1 30	22 42	1 25	10 24	1 7	20 10	0 42	21 39	0 8	10 29	0 32	16 48	0 19	21 55	1 22	15 2	14 39	1 22	0 50	4 40
T 21	23 20	19 46	5 6	24 41	1 35	22 30	1 26	10 32	1 8	20 12	0 42	21 40	0 8	10 29	0 32	16 48	0 19	21 55	1 22	15 3	14 40	1 19	0 50	4 40
F 22	23 16	23 32	5 9	24 35	1 39	22 17	1 27	10 41	1 10	20 15	0 42	21 41	0 9	10 30	0 32	16 47	0 19	21 55	1 21	15 5	14 41	1 16	0 50	4 40
S 23	23 13	26 14	4 57	24 25	1 43	22 4	1 28	10 50	1 11	20 17	0 42	21 41	0 9	10 30	0 32	16 47	0 19	21 55	1 21	15 7	14 42	1 12	0 50	4 40
S 24	23 8	27 32	4 28	24 14	1 46	21 49	1 29	10 59	1 12	20 20	0 42	21 42	0 9	10 31	0 32	16 4								

SWISS EPHEMERIS for the year 1431

JULY 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	19 8 16	16°36'25	28°53'	0°29'	7°47'	28°10'	5°27'	22°R25	28°Y48	14°L57	8°E21	18°S53	20°A 5	21°M49	16°R55	
M 2	19 12 12	17°33'38	13°Y 7	2°20'	9° 0'	28°35'	5°39'	22°Z20	28°49'	14°59'	8°23'	18°R54	20° 2	21°56'	16°K54	
T 3	19 16 9	18°30'53	27°11'	4°10'	10°13'	29° 1'	5°51'	22°16'	28°50'	15° 1'	8°24'	18°54'	19°59'	22° 2'	16°53'	
W 4	19 20 5	19°28'08	11°B 4	5°58'	11°26'	29°26'	6° 3'	22°12'	28°51'	15° 3'	8°26'	18°53'	19°56'	22° 9'	16°51'	
T 5	19 24 2	20°25'25	24°46'	7°44'	12°39'	29°53'	6°15'	22° 7'	28°52'	15° 5'	8°27'	18°50'	19°53'	22°16'	16°50'	
F 6	19 27 59	21°22'42	8°II 5	9°28'	13°53'	0°M19	6°27'	22° 3'	28°53'	15° 7'	8°29'	18°46'	19°50'	22°22'	16°49'	
S 7	19 31 55	22°20'00	21°31'	11°10'	15° 6'	0°46'	6°39'	21°58'	28°54'	15° 9'	8°30'	18°42'	19°46'	22°29'	16°48'	
S 8	19 35 52	23°17'19	4°E32	12°51'	16°19'	1°13'	6°51'	21°54'	28°55'	15°11'	8°32'	18°38'	19°43'	22°36'	16°46'	
M 9	19 39 48	24°14'38	17°20'	14°30'	17°32'	1°41'	7° 2'	21°49'	28°56'	15°13'	8°33'	18°35'	19°40'	22°43'	16°45'	
T 10	19 43 45	25°11'58	29°53'	16° 7'	18°45'	2° 9'	7°14'	21°45'	28°57'	15°15'	8°35'	18°33'	19°37'	22°49'	16°43'	
W11	19 47 41	26° 9'19	12°L13	17°42'	19°58'	2°37'	7°25'	21°40'	28°58'	15°18'	8°36'	18°32'	19°34'	22°56'	16°42'	
T 12	19 51 38	27° 6'41	24°21'	19°16'	21°11'	3° 6'	7°36'	21°36'	28°59'	15°20'	8°38'	18°D32	19°30'	23° 3'	16°40'	
F 13	19 55 34	28° 4'03	6°M20	20°48'	22°24'	3°35'	7°48'	21°32'	28°59'	15°22'	8°39'	18°32'	19°27'	23° 9'	16°39'	
S 14	19 59 31	29° 1'26	18°12'	22°18'	23°37'	4° 4'	7°59'	21°27'	29° 0'	15°24'	8°41'	18°34'	19°24'	23°16'	16°37'	
S 15	20 3 28	29°58'49	0°A 1	23°46'	24°50'	4°34'	8°10'	21°23'	29° 1'	15°26'	8°42'	18°35'	19°21'	23°23'	16°36'	
M16	20 7 24	0°L56'14	11°51'	25°12'	26° 3'	5° 4'	8°21'	21°18'	29° 1'	15°28'	8°44'	18°37'	19°18'	23°29'	16°34'	
T 17	20 11 21	1°53'38	23°47'	26°36'	27°16'	5°34'	8°32'	21°14'	29° 2'	15°31'	8°45'	18°38'	19°15'	23°36'	16°32'	
W18	20 15 17	2°51'04	5°M53	27°59'	28°29'	6° 5'	8°42'	21°10'	29° 2'	15°33'	8°47'	18°R38	19°11'	23°43'	16°30'	
T 19	20 19 14	3°48'30	18°14'	29°19'	29°42'	6°35'	8°53'	21° 6'	29° 3'	15°35'	8°48'	18°37'	19° 8'	23°49'	16°28'	
F 20	20 23 10	4°45'57	0°X55	0°M38	0°M55	7° 7'	9° 4'	21° 1'	29° 3'	15°37'	8°50'	18°36'	19° 5'	23°56'	16°27'	
S 21	20 27 7	5°43'25	13°58'	1°55'	2° 8'	7°38'	9°14'	20°57'	29° 3'	15°39'	8°51'	18°35'	19° 2'	24° 3'	16°25'	
S 22	20 31 3	6°40'54	27°25'	3° 9'	3°21'	8°10'	9°25'	20°53'	29° 4'	15°41'	8°52'	18°33'	18°59'	24° 9'	16°23'	
M23	20 35 0	7°38'24	11°Z17	4°22'	4°34'	8°41'	9°35'	20°49'	29° 4'	15°44'	8°54'	18°32'	18°56'	24°16'	16°21'	
T 24	20 38 57	8°35'55	25°32'	5°32'	5°47'	9°14'	9°45'	20°45'	29° 4'	15°46'	8°55'	18°31'	18°52'	24°23'	16°19'	
W25	20 42 53	9°33'26	10°A 6	6°40'	6°59'	9°46'	9°55'	20°40'	29° 4'	15°48'	8°57'	18°30'	18°49'	24°29'	16°16'	
T 26	20 46 50	10°30'59	24°52'	7°45'	8°12'	10°19'	10° 5'	20°36'	29° 4'	15°50'	8°58'	18°D30	18°46'	24°36'	16°14'	
F 27	20 50 46	11°28'33	9°K43	8°48'	9°25'	10°52'	10°15'	20°32'	29°R 4	15°53'	8°59'	18°30'	18°43'	24°43'	16°12'	
S 28	20 54 43	12°26'09	24°33'	9°49'	10°38'	11°25'	10°25'	20°28'	29° 4'	15°55'	9° 1'	18°31'	18°40'	24°49'	16°10'	
S 29	20 58 39	13°23'45	9°Y14	10°46'	11°50'	11°58'	10°34'	20°25'	29° 4'	15°57'	9° 2'	18°31'	18°36'	24°56'	16° 8'	
M30	21 2 36	14°21'24	23°41'	11°41'	13° 3'	12°32'	10°44'	20°21'	29° 4'	15°59'	9° 3'	18°32'	18°33'	25° 3'	16° 5'	
T 31	21 6 32	15°19'04	7°B50	12°M33	14°M16	13°M 6	10°I53	20°Z17	29°Y 4	16°L 1	9°E 4	18°A32	18°A30	25°M 9	16°K 3	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	22n29	2n38	3n22	21n52	1n47	19n53	1n33	12s 6	1s20	20n35	0s42	21s48	0s 9	10n34	0s33	16n42
M 2	22 21 9 5	4 14	21 24	1 45	19 34	1 34	12 16	1 21	20 38	0 42	21 49	0 9	10 35	0 33	16 42	0 19
T 3	22 14 15 1	4 51	20 56	1 42	19 15	1 34	12 26	1 22	20 40	0 42	21 49	0 10	10 35	0 33	16 41	0 19
W 4	22 6 20 6	5 10	20 26	1 39	18 55	1 34	12 36	1 23	20 42	0 42	21 50	0 10	10 36	0 33	16 41	0 19
T 5	21 57 24 3	5 11	19 55	1 35	18 34	1 34	12 46	1 24	20 44	0 42	21 51	0 10	10 36	0 33	16 40	0 19
F 6	21 49 26 36	4 55	19 23	1 30	18 13	1 34	12 56	1 25	20 46	0 42	21 52	0 10	10 36	0 33	16 39	0 19
S 7	21 39 27 38	4 24	18 50	1 25	17 52	1 34	13 7	1 26	20 48	0 42	21 53	0 10	10 37	0 33	16 39	0 19
S 8	21 30 27 5	3 39	18 17	1 20	17 30	1 34	13 17	1 26	20 50	0 42	21 54	0 10	10 37	0 33	16 38	0 19
M 9	21 20 25 5	2 43	17 43	1 14	17 7	1 34	13 28	1 27	20 52	0 42	21 54	0 10	10 37	0 33	16 38	0 19
T 10	21 10 21 53	1 41	17 8	1 7	16 44	1 34	13 38	1 28	20 54	0 42	21 55	0 10	10 38	0 33	16 37	0 19
W11	20 59 17 45	0 35	16 32	1 1	16 21	1 34	13 49	1 29	20 56	0 42	21 56	0 10	10 38	0 33	16 36	0 19
T 12	20 48 12 57	0s32	15 57	0 54	15 57	1 33	13 59	1 30	20 57	0 42	21 57	0 10	10 38	0 33	16 36	0 19
F 13	20 37 7 43	1 37	15 20	0 46	15 33	1 33	14 10	1 31	20 59	0 42	21 57	0 10	10 38	0 33	16 35	0 19
S 14	20 25 2 17	2 37	14 44	0 39	15 9	1 32	14 21	1 31	21 1	0 42	21 58	0 10	10 39	0 33	16 34	0 19
S 15	20 13 3s12	3 30	14 7	0 30	14 44	1 32	14 32	1 32	21 3	0 42	21 59	0 11	10 39	0 33	16 34	0 19
M16	20 1 8 35	4 14	13 31	0 22	14 18	1 31	14 42	1 33	21 5	0 42	22 0	0 11	10 39	0 33	16 33	0 19
T 17	19 48 13 42	4 47	12 54	0 13	13 52	1 31	14 53	1 34	21 6	0 42	22 1	0 11	10 39	0 33	16 33	0 19
W18	19 35 18 22	5 9	12 17	0 4	13 26	1 30	15 4	1 34	21 8	0 42	22 1	0 11	10 39	0 33	16 32	0 19
T 19	19 22 22 22	5 16	11 40	0s 5	13 0	1 29	15 15	1 35	21 10	0 42	22 2	0 11	10 39	0 33	16 31	0 19
F 20	19 8 25 27	5 9	11 4	0 14	12 33	1 28	15 26	1 36	21 11	0 42	22 3	0 11	10 40	0 33	16 31	0 19
S 21	18 54 27 17	4 46	10 27	0 24	12 6	1 27	15 37	1 36	21 13	0 42	22 4	0 11	10 40	0 33	16 30	0 19
S 22	18 40 27 36	4 7	9 51	0 34	11 39	1 26	15 48	1 37	21 14	0 42	22 4	0 11	10 40	0 33	16 29	0 19
M23	18 25 26 13	3 12	9 16	0 44	11 11	1 25	15 59	1 38	21 16	0 42	22 5	0 11	10 40	0 33	16 29	0 19
T 24	18 10 23 8	2 4	8 41	0 54	10 43	1 23	16 10	1 38	21 17	0 42	22 6	0 11	10 40	0 33	16 28	0 19
W25	17 55 18 31	0 46	8 6	1 4	10 15	1 22	16 21	1 39	21 19	0 42	22 6	0 11	10 40	0 33	16 27	0 19
T 26	17 39 12 43	0n35	7 32	1 15	9 46	1 21	16 32	1 39	21 20	0 42	22 7	0 11	10 40	0 33	16 27	0 19
F 27	17 24 6 10	1 55	6 58	1 25	9 17	1 19	16 43	1 40	21 22	0 42	22 8	0 12	10 40	0 33	16 26	0 19
S 28	17 8 0n41	3 7	6 26	1 36	8 48	1 18	16 54	1 40	21 23	0 42	22 8	0 12	10 40	0 33	16 25	0 19
S 29	16 51 7 26	4 6	5 54	1 47	8 19	1 16	17 5	1 41	21 25	0 42	22 9	0 12	10 40	0 33	16 25	0 19
M30	16 35 13 41	4 48	5 23	1 58	7 50	1 15	17 15	1 41	21 26	0 42	22 10	0 12	10 40	0 33	16 24	0 19
T 31	16n18	19n 5	5n12	4n53	2s 9	7n20	1n13	17s26	1s42	21n27	0s42	22s10	0s12	10n40	0s33	16n23

Julian Day Number = 2243911.5, Delta T = 277.22 sec
 Ecliptic obliquity = 23°30'54, Nutation = 0°00'11
 Ayanamsha: Fagan/Bradley = 16°48'34, Lahiri = 15°55'34 Julian Calendar 1 July 1431 == Greg. Calendar 10 July 1431

SWISS EPHEMERIS for the year 1431

AUGUST 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	21 10 29	16Ω16'46	21♁41	13♁22	15♁28	13♁40	11♁ 3	20°R13	29°R 4	16Ω 4	9♁ 6	18°R32	18♁27	25♁16	16°R 1
T 2	21 14 26	17°14'29	5♁13	14° 7	16°41	14°14	11°12	20♁ 9	29°Y 4	16° 6	9° 7	18♁32	18°24	25°23	15♁58
F 3	21 18 22	18°12'15	18°26	14°49	17°54	14°49	11°21	20° 6	29° 3	16° 8	9° 8	18°D32	18°21	25°29	15°56
S 4	21 22 19	19°10'01	1♁22	15°27	19° 6	15°24	11°30	20° 2	29° 3	16°10	9°10	18°32	18°17	25°36	15°54
S 5	21 26 15	20° 7'50	14° 4	16° 2	20°19	15°59	11°39	19°59	29° 2	16°13	9°11	18°32	18°14	25°43	15°51
M 6	21 30 12	21° 5'40	26°32	16°32	21°31	16°34	11°47	19°55	29° 2	16°15	9°12	18°32	18°11	25°49	15°49
T 7	21 34 8	22° 3'32	8Ω48	16°57	22°44	17°10	11°56	19°52	29° 1	16°17	9°13	18°32	18° 8	25°56	15°46
W 8	21 38 5	23° 1'25	20°55	17°18	23°56	17°45	12° 4	19°48	29° 1	16°19	9°14	18°R32	18° 5	26° 3	15°44
T 9	21 42 1	23°59'20	2♁54	17°34	25° 9	18°21	12°13	19°45	29° 0	16°21	9°16	18°32	18° 2	26° 9	15°41
F 10	21 45 58	24°57'16	14°47	17°45	26°21	18°57	12°21	19°42	29° 0	16°24	9°17	18°32	17°58	26°16	15°39
S 11	21 49 55	25°55'13	26°37	17°R51	27°34	19°34	12°29	19°39	28°59	16°26	9°18	18°31	17°55	26°23	15°36
S 12	21 53 51	26°53'12	8♁26	17°51	28°46	20°10	12°37	19°36	28°58	16°28	9°19	18°30	17°52	26°29	15°33
M13	21 57 48	27°51'13	20°16	17°45	29°58	20°47	12°45	19°33	28°57	16°30	9°20	18°29	17°49	26°36	15°31
T 14	22 1 44	28°49'15	2♁12	17°32	1♁11	21°24	12°52	19°30	28°57	16°32	9°21	18°27	17°46	26°43	15°28
W15	22 5 41	29°47'18	14°17	17°14	2°23	22° 1	13° 0	19°27	28°56	16°35	9°22	18°26	17°42	26°49	15°25
T 16	22 9 37	0♁45'23	26°36	16°49	3°35	22°38	13° 7	19°24	28°55	16°37	9°23	18°D26	17°39	26°56	15°23
F 17	22 13 34	1°43'30	9♁12	16°19	4°47	23°15	13°14	19°21	28°54	16°39	9°24	18°26	17°36	27° 3	15°20
S 18	22 17 30	2°41'38	22°10	15°42	6° 0	23°53	13°21	19°19	28°53	16°41	9°25	18°27	17°33	27° 9	15°17
S 19	22 21 27	3°39'47	5♁33	15° 0	7°12	24°31	13°28	19°16	28°52	16°43	9°26	18°28	17°30	27°16	15°14
M20	22 25 24	4°37'58	19°22	14°12	8°24	25° 9	13°35	19°14	28°51	16°45	9°27	18°29	17°27	27°23	15°12
T 21	22 29 20	5°36'10	3♁38	13°20	9°36	25°47	13°42	19°11	28°49	16°48	9°28	18°30	17°23	27°29	15° 9
W22	22 33 17	6°34'24	18°18	12°24	10°48	26°25	13°48	19° 9	28°48	16°50	9°29	18°R30	17°20	27°36	15° 6
T 23	22 37 13	7°32'40	3♁17	11°26	12° 0	27° 4	13°54	19° 7	28°47	16°52	9°30	18°30	17°17	27°43	15° 3
F 24	22 41 10	8°30'57	18°26	10°26	13°12	27°42	14° 0	19° 5	28°46	16°54	9°31	18°28	17°14	27°49	15° 0
S 25	22 45 6	9°29'16	3♁36	9°25	14°24	28°21	14° 6	19° 3	28°44	16°56	9°32	18°26	17°11	27°56	14°58
S 26	22 49 3	10°27'37	18°38	8°26	15°36	29° 0	14°12	19° 1	28°43	16°58	9°33	18°23	17° 7	28° 3	14°55
M27	22 52 59	11°26'01	3♁23	7°29	16°47	29°39	14°18	18°59	28°42	17° 0	9°34	18°20	17° 4	28°10	14°52
T 28	22 56 56	12°24'26	17°46	6°36	17°59	0♁18	14°23	18°57	28°40	17° 2	9°34	18°18	17° 1	28°16	14°49
W29	23 0 53	13°22'54	1♁44	5°48	19°11	0°58	14°29	18°55	28°39	17° 4	9°35	18°16	16°58	28°23	14°46
T 30	23 4 49	14°21'24	15°15	5° 6	20°23	1°37	14°34	18°54	28°37	17° 6	9°36	18°D16	16°55	28°30	14°44
F 31	23 8 46	15°19'56	28♁22	4♁32	21♁34	2♁17	14♁39	18♁52	28♁36	17Ω 8	9♁37	18♁17	16♁52	28♁36	14♁41

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	16n 0	23n20	5n17	4n25	2s19	6n50	1n11	17s37	1s42	21n29	0s42	22s11	0s12	10n40	0s33	16n23	0n19	21n53	1s20	15s19	15s21	0s57	1s 8	4n46
T 2	15 43	26 13	5 4	3 58	2 30	6 20	1 9	17 48	1 43	21 30	0 42	22 12	0 12	10 39	0 33	16 22	0 19	21 53	1 19	15 19	15 22	1 0	1 9	4 46
F 3	15 25	27 35	4 35	3 32	2 41	5 50	1 7	17 59	1 43	21 31	0 42	22 12	0 12	10 39	0 33	16 21	0 19	21 53	1 19	15 19	15 23	1 3	1 10	4 46
S 4	15 7	27 24	3 53	3 7	2 51	5 20	1 5	18 9	1 44	21 32	0 42	22 13	0 12	10 39	0 33	16 21	0 19	21 53	1 19	15 19	15 24	1 7	1 11	4 46
S 5	14 49	25 45	3 0	2 44	3 2	4 49	1 3	18 20	1 44	21 33	0 42	22 14	0 12	10 39	0 33	16 20	0 19	21 53	1 19	15 19	15 25	1 10	1 12	4 46
M 6	14 31	22 52	1 59	2 23	3 12	4 18	1 1	18 31	1 45	21 35	0 42	22 14	0 12	10 39	0 33	16 20	0 19	21 53	1 19	15 19	15 26	1 13	1 13	4 46
T 7	14 12	18 59	0 54	2 4	3 22	3 48	0 59	18 41	1 45	21 36	0 42	22 15	0 12	10 39	0 33	16 19	0 19	21 52	1 19	15 19	15 27	1 17	1 14	4 46
W 8	13 53	14 22	0s13	1 47	3 31	3 17	0 57	18 52	1 45	21 37	0 42	22 15	0 12	10 38	0 33	16 18	0 19	21 52	1 19	15 19	15 28	1 20	1 15	4 46
T 9	13 34	9 15	1 19	1 33	3 40	2 46	0 54	19 2	1 46	21 38	0 42	22 16	0 13	10 38	0 33	16 18	0 19	21 52	1 19	15 19	15 29	1 23	1 16	4 47
F 10	13 15	3 51	2 21	1 21	3 49	2 15	0 52	19 13	1 46	21 39	0 42	22 16	0 13	10 38	0 33	16 17	0 19	21 52	1 19	15 19	15 30	1 26	1 16	4 47
S 11	12 55	1s39	3 16	1 11	3 56	1 44	0 49	19 23	1 46	21 40	0 42	22 17	0 13	10 38	0 33	16 16	0 19	21 52	1 19	15 20	15 31	1 30	1 17	4 47
S 12	12 35	7 4	4 3	1 5	4 4	1 13	0 47	19 33	1 47	21 41	0 42	22 17	0 13	10 37	0 33	16 16	0 19	21 52	1 19	15 20	15 32	1 33	1 18	4 47
M13	12 15	12 15	4 39	1 1	4 10	0 41	0 44	19 44	1 47	21 42	0 42	22 18	0 13	10 37	0 33	16 15	0 19	21 52	1 19	15 20	15 33	1 36	1 19	4 47
T 14	11 55	17 2	5 4	1 1	4 15	0 10	0 42	19 54	1 47	21 43	0 42	22 18	0 13	10 37	0 33	16 14	0 19	21 52	1 19	15 21	15 33	1 40	1 20	4 47
W15	11 35	21 12	5 16	1 4	4 20	0s21	0 39	20 4	1 48	21 44	0 42	22 19	0 13	10 36	0 33	16 14	0 19	21 52	1 19	15 21	15 34	1 43	1 21	4 47
T 16	11 14	24 32	5 13	1 11	4 23	0 52	0 36	20 14	1 48	21 45	0 42	22 19	0 13	10 36	0 33	16 13	0 20	21 52	1 19	15 21	15 35	1 46	1 23	4 47
F 17	10 54	26 47	4 56	1 22	4 24	1 24	0 34	20 24	1 48	21 46	0 42	22 20	0 13	10 36	0 33	16 12	0 20	21 52	1 19	15 21	15 36	1 49	1 24	4 47
S 18	10 33	27 40	4 24	1 36	4 24	1 55	0 31	20 33	1 49	21 46	0 42	22 20	0 13	10 35	0 33	16 12	0 20	21 52	1 19	15 21	15 37	1 53	1 25	4 47
S 19	10 12	27 0	3 36	1 53	4 23	2 26	0 28	20 43	1 49	21 47	0 42	22 21	0 13	10 35	0 34	16 11	0 20	21 52	1 19	15 21	15 38	1 56	1 26	4 47
M20	9 51	24 39	2 34	2 15	4 19	2 58	0 25	20 52	1 49	21 48	0 42	22 21	0 13	10 35	0 34	16 10	0 20	21 52	1 19	15 20	15 39	1 59	1 27	4 47
T 21	9 29	20 43	1 21	2 39	4 14	3 29	0 22	21 2	1 49	21 49	0 43	22 22	0 13	10 34	0 34	16 10	0 20	21 52	1 19	15 20	15 40	2 3	1 28	4 47
W22	9 8	15 25	0 1	3 7	4 7	4 0	0 19	21 11	1 49	21 49	0 43	22 22	0 13	10 34	0 34	16 9	0 20	21 52	1 19	15 20	15 41	2 6	1 29	4 47
T 23	8 46	9 5	1n21	3 38	3 58	4 31	0 16	21 20	1 50	21 50	0 43	22 22	0 14	10 33	0 34	16 9	0 20	21 52	1 19	15 20	15 42	2 9	1 30	4 47
F 24	8 24	2 10	2 38	4 11	3 47	5 2	0 13	21 30	1 50	21 51	0 43	22 23	0 14	10 33	0 34	16 8	0 20	21 52	1 19	15 20	15 43	2 12	1 31	4 47
S 25	8 2	4n51	3 44	4 46	3 34	5 33	0 10	21 38	1 50	21 52	0 43	22 23	0 14	10 32	0 34	16 7	0 20	21 52	1 19	15 21	15 44	2 16	1 32	4 47
S 26	7 40	11 32	4 33	5 21	3 19	6 4	0 6	21 47	1 50	21 52	0 43	22 23	0 14	10 32	0 34	16 7	0 20	21 52	1 19	15 22	15 45	2 19	1 33	4 47
M27	7 18	17 26	5 4	5 57	3 3	6 34	0 3	21 56	1 50	21 53	0 43	22 24	0 14	10 31	0 34	16 6	0 20	21 52	1 19	15 23	15 46	2 22	1 34	4 46
T 28	6 56	22 13	5 15	6 33	2 46	7 5	0s 0	22 5	1 50	21 54	0 43	22 24	0 14	10 31	0 34	16 5	0 20	21 52	1 19	15 24	1			

SWISS EPHEMERIS for the year 1431

SEPTEMBER 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	23 12 42	16 ^η 18'31	11 ^ϵ 8	4°R 7	22 [♁] 46	2 [♂] 57	14 [♂] 44	18°R51	28°R34	17 [♁] 10	9 [♁] 38	18 [♁] 18	16 [♁] 48	28 ^η 43	14°R38
S 2	23 16 39	17°17'08	23°37	3 ^η 50	23°58	3°37	14°48	18 [♁] 50	28 [♀] 32	17°12	9°38	18°20	16°45	28°50	14 [♂] 35
M 3	23 20 35	18°15'46	5 [♁] 51	3°D43	25° 9	4°17	14°53	18°48	28°31	17°14	9°39	18°21	16°42	28°56	14°32
T 4	23 24 32	19°14'27	17°55	3°45	26°21	4°57	14°57	18°47	28°29	17°16	9°40	18°R22	16°39	29° 3	14°29
W 5	23 28 28	20°13'10	29°52	3°57	27°32	5°38	15° 1	18°46	28°27	17°18	9°40	18°21	16°36	29°10	14°27
T 6	23 32 25	21°11'55	11 ^η 44	4°19	28°44	6°18	15° 5	18°45	28°25	17°20	9°41	18°19	16°33	29°16	14°24
F 7	23 36 22	22°10'42	23°33	4°51	29°55	6°59	15° 9	18°44	28°24	17°22	9°42	18°15	16°29	29°23	14°21
S 8	23 40 18	23° 9'31	5 [♁] 22	5°31	1 [♁] 6	7°40	15°12	18°44	28°22	17°24	9°42	18° 9	16°26	29°30	14°18
S 9	23 44 15	24° 8'22	17°13	6°20	2°18	8°21	15°16	18°43	28°20	17°26	9°43	18° 3	16°23	29°36	14°15
M10	23 48 11	25° 7'15	29° 7	7°17	3°29	9° 2	15°19	18°42	28°18	17°28	9°43	17°56	16°20	29°43	14°13
T 11	23 52 8	26° 6'10	11 [♁] 7	8°21	4°40	9°43	15°22	18°42	28°16	17°29	9°44	17°49	16°17	29°50	14°10
W12	23 56 4	27° 5'07	23°14	9°31	5°51	10°24	15°25	18°42	28°14	17°31	9°44	17°44	16°13	29°56	14° 7
T 13	0 0 1	28° 4'06	5 [♂] 33	10°48	7° 2	11° 6	15°27	18°41	28°12	17°33	9°45	17°39	16°10	0 [♁] 3	14° 4
F 14	0 3 57	29° 3'06	11 [♂] 7	12°10	8°13	11°47	15°30	18°41	28°10	17°35	9°45	17°37	16° 7	0°10	14° 2
S 15	0 7 54	0 [♁] 2'09	0 [♂] 59	13°37	9°24	12°29	15°32	18°D41	28° 8	17°37	9°46	17°D36	16° 4	0°16	13°59
S 16	0 11 50	1° 1'13	14°13	15° 7	10°35	13°11	15°34	18°41	28° 6	17°38	9°46	17°37	16° 1	0°23	13°56
M17	0 15 47	2° 0'19	27°52	16°41	11°46	13°53	15°36	18°42	28° 4	17°40	9°46	17°38	15°58	0°30	13°54
T 18	0 19 44	2°59'26	11 [♁] 58	18°17	12°57	14°35	15°38	18°42	28° 1	17°42	9°47	17°R39	15°54	0°37	13°51
W19	0 23 40	3°58'36	26°30	19°56	14° 8	15°17	15°39	18°42	27°59	17°43	9°47	17°39	15°51	0°43	13°49
T 20	0 27 37	4°57'47	11 [♂] 25	21°37	15°19	15°59	15°40	18°43	27°57	17°45	9°47	17°37	15°48	0°50	13°46
F 21	0 31 33	5°57'00	26°36	23°19	16°29	16°42	15°41	18°43	27°55	17°47	9°48	17°33	15°45	0°57	13°43
S 22	0 35 30	6°56'15	11 [♀] 54	25° 2	17°40	17°24	15°42	18°44	27°53	17°48	9°48	17°27	15°42	1° 3	13°41
S 23	0 39 26	7°55'32	27° 8	26°46	18°50	18° 7	15°43	18°45	27°50	17°50	9°48	17°19	15°39	1°10	13°38
M24	0 43 23	8°54'52	12 [♂] 8	28°31	20° 1	18°49	15°43	18°45	27°48	17°51	9°48	17°11	15°35	1°17	13°36
T 25	0 47 19	9°54'14	26°44	0 [♁] 16	21°11	19°32	15°44	18°46	27°46	17°53	9°49	17° 4	15°32	1°23	13°33
W26	0 51 16	10°53'38	10 [♂] 52	2° 1	22°21	20°15	15°R44	18°47	27°43	17°55	9°49	16°58	15°29	1°30	13°31
T 27	0 55 13	11°53'04	24°31	3°46	23°31	20°58	15°44	18°49	27°41	17°56	9°49	16°55	15°26	1°37	13°29
F 28	0 59 9	12°52'33	7 [♁] 40	5°30	24°42	21°41	15°43	18°50	27°39	17°57	9°49	16°D53	15°23	1°43	13°26
S 29	1 3 6	13°52'04	20°25	7°15	25°52	22°24	15°43	18°51	27°36	17°59	9°49	16°53	15°19	1°50	13°24
S 30	1 7 2	14 [♁] 51'38	2 [♁] 49	8 [♁] 59	27 [♁] 2	23 [♂] 7	15 [♂] 42	18 [♂] 53	27 [♀] 34	18 [♁] 0	9 [♁] 49	16 [♁] 54	15 [♁] 16	1 [♁] 57	13 [♂] 22

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	5n25	26n12	3n10	8n39	1s29	9s 5	0s14	22s37	1s51	21n56	0s43	22s25	0s14	10n28	0s34	16n 3	0n20	21n52	1s18	15s24	15s51	2s39	1s40	4n46
S 2	5 2 23	36 2 12	9 4 1	9 9 35	0 17	22 45	1 51	21 56	0 43	22 25	0 14	10 28	0 34	16 2	0 20	21 52	1 18	15 23	15 52	2 42	1 41	4 46		
M 3	4 39	19 58	1 8	9 24	0 50	10 5	0 20	22 53	1 51	21 57	0 43	22 26	0 14	10 27	0 34	16 2	0 20	21 52	1 18	15 23	15 53	2 45	1 42	4 46
T 4	4 16	15 33	0 2	9 41	0 31	10 34	0 24	23 0	1 51	21 57	0 43	22 26	0 14	10 27	0 34	16 1	0 20	21 52	1 18	15 22	15 54	2 48	1 44	4 46
W 5	3 53	10 35	1s 3	9 53	0 13	11 3	0 27	23 8	1 51	21 58	0 43	22 26	0 14	10 26	0 34	16 1	0 20	21 52	1 18	15 23	15 55	2 52	1 45	4 46
T 6	3 30	5 16	2 4	10 1	0n 4	11 32	0 31	23 15	1 51	21 58	0 43	22 26	0 14	10 25	0 34	16 0	0 20	21 52	1 18	15 23	15 56	2 55	1 46	4 46
F 7	3 7	0s11	3 0	10 4	0 19	12 1	0 34	23 22	1 51	21 58	0 43	22 26	0 15	10 25	0 34	16 0	0 20	21 52	1 18	15 25	15 57	2 58	1 47	4 46
S 8	2 43	5 38	3 48	10 3	0 34	12 29	0 38	23 29	1 51	21 59	0 43	22 27	0 15	10 24	0 34	15 59	0 20	21 52	1 18	15 26	15 58	3 1	1 48	4 46
S 9	2 20	10 53	4 27	9 57	0 48	12 57	0 41	23 36	1 51	21 59	0 43	22 27	0 15	10 23	0 34	15 58	0 20	21 51	1 18	15 28	15 59	3 5	1 49	4 45
M10	1 57	15 46	4 54	9 47	1 0	13 25	0 45	23 42	1 51	21 59	0 43	22 27	0 15	10 23	0 34	15 58	0 20	21 51	1 18	15 30	16 0	3 8	1 51	4 45
T 11	1 33	20 5	5 8	9 34	1 11	13 53	0 48	23 48	1 51	22 0	0 43	22 27	0 15	10 22	0 34	15 57	0 20	21 51	1 18	15 32	16 0	3 11	1 52	4 45
W12	1 10	23 37	5 8	9 16	1 20	14 20	0 52	23 54	1 51	22 0	0 43	22 27	0 15	10 21	0 34	15 57	0 20	21 51	1 18	15 34	16 1	3 14	1 53	4 45
T 13	0 46	26 8	4 55	8 54	1 29	14 47	0 56	24 0	1 51	22 0	0 43	22 27	0 15	10 20	0 34	15 56	0 20	21 51	1 18	15 35	16 2	3 18	1 54	4 45
F 14	0 23	27 25	4 27	8 30	1 36	15 14	0 59	24 6	1 51	22 0	0 43	22 27	0 15	10 20	0 34	15 56	0 20	21 51	1 18	15 36	16 3	3 21	1 55	4 45
S 15	0s 1	27 16	3 46	8 2	1 42	15 40	1 3	24 12	1 51	22 1	0 43	22 27	0 15	10 19	0 34	15 55	0 20	21 51	1 18	15 36	16 4	3 24	1 56	4 45
S 16	0 24	25 35	2 51	7 31	1 47	16 6	1 6	24 17	1 51	22 1	0 43	22 27	0 15	10 18	0 34	15 55	0 20	21 51	1 18	15 36	16 5	3 27	1 58	4 45
M17	0 48	22 22	1 45	6 58	1 50	16 31	1 10	24 22	1 50	22 1	0 43	22 27	0 15	10 17	0 34	15 54	0 20	21 51	1 18	15 36	16 6	3 31	1 59	4 44
T 18	1 12	17 45	0 31	6 23	1 53	16 56	1 13	24 27	1 50	22 1	0 43	22 27	0 15	10 17	0 34	15 54	0 20	21 51	1 18	15 35	16 7	3 34	2 0	4 44
W19	1 35	11 59	0n48	5 45	1 55	17 21	1 17	24 32	1 50	22 1	0 43	22 27	0 15	10 16	0 34	15 53	0 20	21 51	1 18	15 35	16 8	3 37	2 1	4 44
T 20	1 59	5 23	2 5	5 6	1 56	17 46	1 20	24 36	1 50	22 1	0 43	22 27	0 15	10 15	0 34	15 53	0 20	21 51	1 18	15 36	16 9	3 40	2 2	4 44
F 21	2 22	1n37	3 14	4 26	1 56	18 9	1 24	24 40	1 50	22 2	0 43	22 27	0 15	10 14	0 34	15 52	0 20	21 51	1 18	15 37	16 10	3 44	2 3	4 44
S 22	2 46	8 33	4 10	3 44	1 55	18 33	1 27	24 44	1 50	22 2	0 43	22 27	0 15	10 13	0 34	15 52	0 20	21 51	1 18	15 39	16 11	3 47	2 4	4 44
S 23	3 9	14 57	4 48	3 1	1 53	18 56	1 31	24 48	1 50	22 2	0 43	22 27	0 15	10 13	0 34	15 51	0 20	21 51	1 18	15 42	16 12	3 50	2 6	4 43
M24	3 33	20 22	5 5	2 18	1 51	19 19	1 34	24 52	1 49	22 2	0 43	22 27	0 15	10 12	0 34	15 51	0 20	21 52	1 18	15 44	16 13	3 53	2 7	4 43
T 25	3 56	24 23	5 2	1 34	1 49	19 41	1 38	24 55	1 49	22 2	0 43	22 27	0 16	10 11	0 34	15 50	0 20	21 52	1 18	15 46	16 14	3 57	2 8	4 43
W26	4 19	26 46	4 41	0 49	1 46	20 3	1 41	24 58	1 49	22 2	0 43	22 27	0 16	10 10	0 34	15 50	0 20	21 52	1 18	15 48	16 15	4 0	2 9	4 43
T 27	4 43	27 27	4 3	0 4	1 42	20 24	1 44	25 1	1 49	22 2	0 43	22 27	0 16	10 9	0 34	15 50	0 20	21 52	1 18	15 49	16 16	4 3	2 10	4 43
F 28	5 6	26 32	3 14	0s42	1 38	20 45	1 48	25 4	1 49	22 2	0 43	22 27	0 16	10 8	0 34	15 49	0 20	2						

SWISS EPHEMERIS for the year 1431

OCTOBER 1431 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	1 10 59	15 ⁵¹ 14	14 ⁰² 57	10 ⁰⁴ 43	28 ⁰⁸ 12	23 ²⁷ 51	15 ^{0R} 41	18 ⁰³ 54	27 ^{0R} 32	18 ⁰² 2	9 ⁰² 49	16 ^{0R} 54	15 ⁰⁰ 13	2 ⁰² 3	13 ^{0R} 19
T 2	1 14 55	16 ⁵⁰ 52	26 ⁵⁵	12 ²⁶	29 ²¹	24 ³⁴	15 ^{0I} 40	18 ⁵⁶	27 ^{0Y} 29	18 ⁰³	9 ^{0R} 49	16 ⁰⁰ 54	15 ¹⁰	2 ¹⁰	13 ^{0I} 17
W 3	1 18 52	17 ⁵⁰ 32	8 ⁰⁰ 46	14 ⁰⁹	0 ⁰⁰ 31	25 ¹⁷	15 ³⁹	18 ⁵⁸	27 ²⁷	18 ⁰⁴	9 ⁴⁹	16 ⁵¹	15 ⁰⁷	2 ¹⁷	13 ¹⁵
T 4	1 22 48	18 ⁵⁰ 14	20 ³⁴	15 ⁵¹	1 ⁴¹	26 ⁰¹	15 ³⁷	18 ⁵⁹	27 ²⁴	18 ⁰⁶	9 ⁴⁹	16 ⁴⁶	15 ⁰⁴	2 ²³	13 ¹³
F 5	1 26 45	19 ⁴⁹ 59	2 ⁰² 23	17 ³³	2 ⁵¹	26 ⁴⁵	15 ³⁵	19 ⁰¹	27 ²²	18 ⁰⁷	9 ⁴⁹	16 ³⁸	15 ⁰⁰	2 ³⁰	13 ¹¹
S 6	1 30 42	20 ⁴⁹ 45	14 ¹⁴	19 ¹⁴	4 ⁰⁰	27 ²⁹	15 ³³	19 ⁰³	27 ¹⁹	18 ⁰⁸	9 ⁴⁹	16 ²⁸	14 ⁵⁷	2 ³⁷	13 ⁰⁸
S 7	1 34 38	21 ⁴⁹ 34	26 ¹⁰	20 ⁵⁵	5 ⁰⁹	28 ¹²	15 ³¹	19 ⁰⁶	27 ¹⁷	18 ⁰⁹	9 ⁴⁹	16 ¹⁶	14 ⁵⁴	2 ⁴⁴	13 ⁰⁶
M 8	1 38 35	22 ⁴⁹ 25	8 ⁰⁰ 12	22 ³⁵	6 ¹⁹	28 ⁵⁶	15 ²⁹	19 ⁰⁸	27 ¹⁵	18 ¹¹	9 ⁴⁹	16 ⁰³	14 ⁵¹	2 ⁵⁰	13 ⁰⁴
T 9	1 42 31	23 ⁴⁹ 17	20 ²¹	24 ¹⁴	7 ²⁸	29 ⁴⁰	15 ²⁶	19 ¹⁰	27 ¹²	18 ¹²	9 ⁴⁹	15 ⁵⁰	14 ⁴⁸	2 ⁵⁷	13 ⁰²
W10	1 46 28	24 ⁴⁹ 12	2 ⁰⁰ 37	25 ⁵³	8 ³⁷	0 ⁰⁰ 25	15 ²⁴	19 ¹³	27 ¹⁰	18 ¹³	9 ⁴⁹	15 ³⁹	14 ⁴⁴	3 ⁰⁴	13 ⁰⁰
T 11	1 50 24	25 ⁴⁹ 08	15 ⁰⁴	27 ³²	9 ⁴⁶	1 ⁰⁹	15 ²¹	19 ¹⁵	27 ⁰⁷	18 ¹⁴	9 ⁴⁸	15 ³⁰	14 ⁴¹	3 ¹⁰	12 ⁵⁹
F 12	1 54 21	26 ⁴⁹ 06	27 ⁴²	29 ¹⁰	10 ⁵⁵	1 ⁵³	15 ¹⁸	19 ¹⁸	27 ⁰⁵	18 ¹⁵	9 ⁴⁸	15 ²⁴	14 ³⁸	3 ¹⁷	12 ⁵⁷
S 13	1 58 17	27 ⁴⁹ 06	10 ⁰⁰ 34	0 ⁰⁰ 47	12 ⁰⁴	2 ³⁷	15 ¹⁴	19 ²⁰	27 ⁰²	18 ¹⁶	9 ⁴⁸	15 ²⁰	14 ³⁵	3 ²⁴	12 ⁵⁵
S 14	2 2 14	28 ⁴⁹ 08	23 ⁴⁴	2 ²⁴	13 ¹³	3 ²²	15 ¹¹	19 ²³	27 ⁰⁰	18 ¹⁷	9 ⁴⁸	15 ^{0D} 19	14 ³²	3 ³⁰	12 ⁵³
M15	2 6 11	29 ⁴⁹ 11	7 ⁰⁰ 14	4 ⁰⁰	14 ²¹	4 ⁰⁶	15 ⁰⁷	19 ²⁶	26 ⁵⁷	18 ¹⁸	9 ⁴⁷	15 ¹⁹	14 ²⁹	3 ³⁷	12 ⁵²
T 16	2 10 7	0 ⁰⁰ 49'15	21 ⁰⁶	5 ³⁶	15 ³⁰	4 ⁵¹	15 ⁰³	19 ²⁹	26 ⁵⁵	18 ¹⁹	9 ⁴⁷	15 ^{0R} 19	14 ²⁵	3 ⁴⁴	12 ⁵⁰
W17	2 14 4	1 ⁴⁹ 22	5 ⁰⁰ 22	7 ¹²	16 ³⁸	5 ³⁵	14 ⁵⁹	19 ³²	26 ⁵²	18 ²⁰	9 ⁴⁷	15 ¹⁸	14 ²²	3 ⁵⁰	12 ⁴⁸
T 18	2 18 0	2 ⁴⁹ 29	20 ⁰¹	8 ⁴⁷	17 ⁴⁶	6 ²⁰	14 ⁵⁵	19 ³⁵	26 ⁵⁰	18 ²¹	9 ⁴⁶	15 ¹⁴	14 ¹⁹	3 ⁵⁷	12 ⁴⁷
F 19	2 21 57	3 ⁴⁹ 38	4 ⁰⁰ 57	10 ²¹	18 ⁵⁴	7 ⁰⁵	14 ⁵⁰	19 ³⁹	26 ⁴⁷	18 ²²	9 ⁴⁶	15 ⁰⁸	14 ¹⁶	4 ⁰⁴	12 ⁴⁵
S 20	2 25 53	4 ⁴⁹ 49	20 ⁰⁴	11 ⁵⁶	20 ⁰²	7 ⁵⁰	14 ⁴⁶	19 ⁴²	26 ⁴⁵	18 ²²	9 ⁴⁶	14 ⁵⁹	14 ¹³	4 ¹⁰	12 ⁴⁴
S 21	2 29 50	5 ⁵⁰ 02	5 ⁰⁰ 13	13 ³⁰	21 ¹⁰	8 ³⁵	14 ⁴¹	19 ⁴⁵	26 ⁴³	18 ²³	9 ⁴⁵	14 ⁴⁸	14 ¹⁰	4 ¹⁷	12 ⁴²
M22	2 33 46	6 ⁵⁰ 17	20 ¹²	15 ⁰³	22 ¹⁷	9 ¹⁹	14 ³⁶	19 ⁴⁹	26 ⁴⁰	18 ²⁴	9 ⁴⁵	14 ³⁶	14 ⁰⁶	4 ²⁴	12 ⁴¹
T 23	2 37 43	7 ⁵⁰ 33	4 ⁰⁰ 53	16 ³⁶	23 ²⁵	10 ⁰⁴	14 ³¹	19 ⁵²	26 ³⁸	18 ²⁵	9 ⁴⁴	14 ²⁵	14 ⁰³	4 ³¹	12 ⁴⁰
W24	2 41 40	8 ⁵⁰ 52	19 ⁰⁸	18 ⁰⁹	24 ³²	10 ⁵⁰	14 ²⁶	19 ⁵⁶	26 ³⁵	18 ²⁵	9 ⁴⁴	14 ¹⁶	14 ⁰⁰	4 ³⁷	12 ³⁸
T 25	2 45 36	9 ⁵¹ 12	2 ⁰⁰ 53	19 ⁴¹	25 ³⁹	11 ³⁵	14 ²⁰	20 ⁰⁰	26 ³³	18 ²⁶	9 ⁴³	14 ⁰⁹	13 ⁵⁷	4 ⁴⁴	12 ³⁷
F 26	2 49 33	10 ⁵¹ 34	16 ⁰⁹	21 ¹³	26 ⁴⁶	12 ²⁰	14 ¹⁵	20 ⁰⁴	26 ³¹	18 ²⁷	9 ⁴³	14 ⁰⁵	13 ⁵⁴	4 ⁵¹	12 ³⁶
S 27	2 53 29	11 ⁵¹ 59	28 ⁵⁹	22 ⁴⁵	27 ⁵³	13 ⁰⁵	14 ⁰⁹	20 ⁰⁸	26 ²⁸	18 ²⁷	9 ⁴²	14 ⁰⁴	13 ⁵⁰	4 ⁵⁷	12 ³⁵
S 28	2 57 26	12 ⁵² 25	11 ⁰⁰ 25	24 ¹⁷	29 ⁰⁰	13 ⁵⁰	14 ⁰³	20 ¹²	26 ²⁶	18 ²⁸	9 ⁴¹	14 ⁰³	13 ⁴⁷	5 ⁰⁴	12 ³⁴
M29	3 1 22	13 ⁵² 53	23 ³⁴	25 ⁴⁸	0 ⁰⁰ 6	14 ³⁶	13 ⁵⁷	20 ¹⁶	26 ²⁴	18 ²⁸	9 ⁴¹	14 ⁰³	13 ⁴⁴	5 ¹¹	12 ³³
T 30	3 5 19	14 ⁵³ 23	5 ⁰⁰ 30	27 ¹⁹	1 ¹²	15 ²¹	13 ⁵¹	20 ²⁰	26 ²¹	18 ²⁹	9 ⁴⁰	14 ⁰²	13 ⁴¹	5 ¹⁷	12 ³²
W31	3 9 15	15 ⁵³ 54	17 ⁰⁰ 20	28 ⁰⁰ 49	2 ⁰⁰ 18	16 ⁰⁰ 6	13 ⁰⁰ 44	20 ⁰⁰ 24	26 ⁰⁰ 19	18 ⁰⁰ 29	9 ⁰⁰ 40	13 ⁰⁰ 59	13 ⁰⁰ 38	5 ⁰⁰ 24	12 ⁰⁰ 31

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	6s15	16n34	0n10	2s58	1n24	21s44	1s57	25s10	1s48	22n 1	0s43	22s26	0s16	10n 6	0s34	15n48	0n20	21n52	1s18	15s49	16s19	4s16	2s14	4n42
T 2	6 38	11 45	0s53	3 43	1 19	22 2	2 1	25 12	1 48	22 1	0 43	22 26	0 16	10 5	0 34	15 47	0 20	21 52	1 18	15 49	16 20	4 19	2 15	4 42
W 3	7 1	6 33	1 54	4 28	1 13	22 20	2 4	25 13	1 47	22 1	0 43	22 26	0 16	10 4	0 34	15 47	0 20	21 52	1 18	15 50	16 21	4 22	2 16	4 41
T 4	7 24	1 9	2 49	5 13	1 7	22 38	2 7	25 14	1 47	22 1	0 43	22 26	0 16	10 3	0 34	15 47	0 20	21 52	1 17	15 52	16 22	4 26	2 17	4 41
F 5	7 47	4s16	3 38	5 58	1 12	22 55	2 10	25 15	1 47	22 1	0 44	22 26	0 16	10 2	0 34	15 46	0 20	21 52	1 17	15 54	16 23	4 29	2 18	4 41
S 6	8 9	9 34	4 16	6 42	0 55	23 11	2 13	25 16	1 47	22 1	0 44	22 25	0 16	10 2	0 34	15 46	0 20	21 52	1 17	15 57	16 24	4 32	2 19	4 41
S 7	8 32	14 32	4 44	7 26	0 49	23 27	2 16	25 16	1 46	22 0	0 44	22 25	0 16	10 1	0 34	15 46	0 20	21 52	1 17	16 1	16 25	4 35	2 20	4 40
M 8	8 54	19 0	4 59	8 9	0 43	23 42	2 18	25 17	1 46	22 0	0 44	22 25	0 16	10 0	0 34	15 45	0 20	21 52	1 17	16 5	16 26	4 38	2 21	4 40
T 9	9 16	22 43	5 1	8 52	0 36	23 57	2 21	25 17	1 46	22 0	0 44	22 25	0 16	9 59	0 34	15 45	0 20	21 52	1 17	16 8	16 27	4 42	2 22	4 40
W10	9 39	25 28	4 49	9 34	0 30	24 11	2 24	25 16	1 45	21 59	0 44	22 24	0 16	9 58	0 34	15 45	0 20	21 52	1 17	16 12	16 28	4 45	2 23	4 40
T 11	10 0	27 2	4 23	10 16	0 23	24 24	2 27	25 16	1 45	21 59	0 43	22 24	0 16	9 57	0 34	15 44	0 21	21 52	1 17	16 14	16 29	4 48	2 24	4 39
F 12	10 22	27 14	3 44	10 57	0 16	24 37	2 29	25 15	1 45	21 59	0 43	22 24	0 16	9 56	0 34	15 44	0 21	21 52	1 17	16 16	16 30	4 51	2 25	4 39
S 13	10 44	25 58	2 53	11 38	0 10	24 49	2 32	25 14	1 44	21 58	0 43	22 23	0 16	9 55	0 34	15 44	0 21	21 52	1 17	16 17	16 31	4 55	2 26	4 39
S 14	11 5	23 15	1 52	12 18	0 32	25 0	2 34	25 12	1 44	21 58	0 43	22 23	0 17	9 55	0 34	15 43	0 21	21 52	1 17	16 18	16 32	4 58	2 27	4 39
M15	11 27	19 13	0 43	12 57	0s 4	25 11	2 36	25 11	1 44	21 58	0 43	22 23	0 17	9 54	0 34	15 43	0 21	21 52	1 17	16 18	16 32	5 1	2 28	4 38
T 16	11 48	14 1	0n31	13 36	0 10	25 21	2 39	25 9	1 43	21 57	0 43	22 22	0 17	9 53	0 34	15 43	0 21	21 52	1 17	16 18	16 33	5 4	2 29	4 38
W17	12 9	7 57	1 44	14 14	0 17	25 31	2 41	25 6	1 43	21 57	0 43	22 22	0 17	9 52	0 34	15 43	0 21	21 52	1 17	16 18	16 34	5 7	2 30	4 38
T 18	12 29	1 20	2 52	14 51	0 24	25 39	2 43	25 4	1 42	21 56	0 43	22 21	0 17	9 51	0 34	15 42	0 21	21 52	1 17	16 19	16 35	5 10	2 31	4 38
F 19	12 50	5n30	3 50	15 27	0 30	25 47	2 45	25 1	1 42	21 56	0 43	22 21	0 17	9 50	0 34	15 42	0 21	21 52	1 17	16 21	16 36	5 14	2 31	4 37
S 20	13 10	12 5	4 33	16 3	0 37	25 55	2 47	24 58	1 41	21 55	0 43	22 21	0 17	9 49	0 34	15 42	0 21	21 52	1 17	16 24	16 37	5 17	2 32	4 37
S 21	13 30	17 57	4 56	16 38	0 43	26 1	2 49	24																

SWISS EPHEMERIS for the year 1431

NOVEMBER 1431 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	3 13 12	16♏54'28	29♐ 9	0♌19	3♊24	16♌52	13°R38	20♌28	26°R17	18♏30	9°R39	13°R53	13♌35	5♌31	12°R30	
F 2	3 17 9	17°55'03	10♏59	1°49	4°30	17°37	13II31	20°33	26°V14	18°30	9°38	13♌44	13°31	5°37	12°R29	
S 3	3 21 5	18°55'40	22°54	3°19	5°35	18°23	13°24	20°37	26°12	18°30	9°37	13°33	13°28	5°44	12°29	
S 4	3 25 2	19°56'19	4♏58	4°48	6°40	19° 8	13°17	20°42	26°10	18°31	9°37	13°19	13°25	5°51	12°28	
M 5	3 28 58	20°56'59	17°10	6°17	7°45	19°54	13°10	20°46	26° 8	18°31	9°36	13° 5	13°22	5°58	12°27	
T 6	3 32 55	21°57'40	29°32	7°45	8°50	20°40	13° 3	20°51	26° 6	18°31	9°35	12°50	13°19	6° 4	12°27	
W 7	3 36 51	22°58'24	12♏ 4	9°13	9°54	21°26	12°56	20°56	26° 4	18°31	9°34	12°38	13°16	6°11	12°26	
T 8	3 40 48	23°59'08	24°46	10°41	10°59	22°11	12°49	21° 1	26° 1	18°31	9°34	12°27	13°12	6°18	12°26	
F 9	3 44 44	24°59'54	7♌39	12° 7	12° 3	22°57	12°41	21° 6	25°59	18°32	9°33	12°20	13° 9	6°24	12°26	
S 10	3 48 41	26° 0'40	20°43	13°34	13° 6	23°43	12°34	21°11	25°57	18°32	9°32	12°16	13° 6	6°31	12°25	
S 11	3 52 38	27° 1'28	3♌59	14°59	14°10	24°29	12°26	21°16	25°55	18°32	9°31	12°14	13° 3	6°38	12°25	
M 12	3 56 34	28° 2'17	17°30	16°23	15°13	25°15	12°19	21°21	25°53	18°R32	9°30	12°D14	13° 0	6°44	12°25	
T 13	4 0 31	29° 3'07	1♏16	17°47	16°15	26° 1	12°11	21°26	25°51	18°32	9°29	12°R14	12°56	6°51	12°25	
W 14	4 4 27	0♌ 3'57	15°19	19° 9	17°18	26°47	12° 3	21°31	25°49	18°32	9°28	12°13	12°53	6°58	12°25	
T 15	4 8 24	1° 4'49	29°38	20°30	18°20	27°33	11°55	21°37	25°48	18°32	9°27	12°10	12°50	7° 5	12°D25	
F 16	4 12 20	2° 5'41	14°V11	21°50	19°22	28°19	11°47	21°42	25°46	18°32	9°26	12° 4	12°47	7°11	12°25	
S 17	4 16 17	3° 6'34	28°55	23° 8	20°23	29° 5	11°39	21°47	25°44	18°31	9°25	11°56	12°44	7°18	12°25	
S 18	4 20 13	4° 7'28	13♏41	24°24	21°24	29°51	11°31	21°53	25°42	18°31	9°24	11°46	12°41	7°25	12°25	
M 19	4 24 10	5° 8'23	28°22	25°37	22°24	0♌37	11°23	21°59	25°40	18°31	9°23	11°35	12°37	7°31	12°25	
T 20	4 28 7	6° 9'19	12II50	26°48	23°25	1°23	11°15	22° 4	25°39	18°31	9°22	11°25	12°34	7°38	12°25	
W 21	4 32 3	7°10'16	26°59	27°56	24°24	2° 9	11° 7	22°10	25°37	18°31	9°21	11°16	12°31	7°45	12°26	
T 22	4 36 0	8°11'15	10♌42	29° 0	25°24	2°55	10°59	22°16	25°35	18°30	9°20	11°10	12°28	7°51	12°26	
F 23	4 39 56	9°12'14	24° 0	0♌ 0	26°22	3°42	10°51	22°21	25°34	18°30	9°19	11° 6	12°25	7°58	12°26	
S 24	4 43 53	10°13'14	6♏53	0°55	27°21	4°28	10°42	22°27	25°32	18°30	9°18	11°D 4	12°22	8° 5	12°27	
S 25	4 47 49	11°14'15	19°23	1°45	28°18	5°14	10°34	22°33	25°31	18°29	9°17	11° 5	12°18	8°12	12°27	
M 26	4 51 46	12°15'18	1♏36	2°29	29°16	6° 0	10°26	22°39	25°29	18°29	9°16	11° 5	12°15	8°18	12°28	
T 27	4 55 42	13°16'21	13°35	3° 6	0♌13	6°47	10°18	22°45	25°28	18°28	9°15	11°R 6	12°12	8°25	12°29	
W 28	4 59 39	14°17'25	25°27	3°35	1° 9	7°33	10°10	22°51	25°26	18°28	9°14	11° 5	12° 9	8°32	12°29	
T 29	5 3 36	15°18'31	7♌17	3°56	2° 4	8°19	10° 2	22°57	25°25	18°27	9°13	11° 2	12° 6	8°38	12°30	
F 30	5 7 32	16♏19'37	19♏ 9	4♌ 7	3♌ 0	9♌ 5	9II54	23♌ 3	25°V24	18♏27	9°12	10♌57	12♌ 2	8♌45	12°R31	

Day	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
T 1	16s56	2s56	3s34	22s 1	1s47	26s30	3s 2	24s 2	1s36	21n48	0s43	22s14	0s17	9n39	0s34	15n40	0n21	21n53	1s17	16s43	16s48	5s55	2s41	4n34
F 2	17 13	8 14	4 13	22 25	1 52	26 28	3 2	23 55	1 35	21 47	0 43	22 14	0 18	9 38	0 34	15 40	0 21	21 53	1 17	16 45	16 49	5 58	2 41	4 33
S 3	17 30	13 16	4 41	22 47	1 56	26 26	3 2	23 49	1 35	21 46	0 43	22 13	0 18	9 38	0 34	15 40	0 21	21 54	1 17	16 49	16 50	6 1	2 42	4 33
S 4	17 47	17 52	4 56	23 8	2 1	26 23	3 3	23 42	1 34	21 46	0 43	22 12	0 18	9 37	0 34	15 40	0 21	21 54	1 16	16 52	16 51	6 4	2 42	4 33
M 5	18 3 21	47 4 59	23 28	2 5	26 19	3 3	23 35	1 34	21 45	0 43	22 12	0 18	9 36	0 34	15 40	0 21	21 54	1 16	16 57	16 52	6 8	2 43	4 32	
T 6	18 19	24 47	4 47	23 47	2 8	26 15	3 2	23 27	1 33	21 44	0 42	22 11	0 18	9 35	0 34	15 40	0 21	21 54	1 16	17 1	16 53	6 11	2 43	4 32
W 7	18 34	26 38	4 22	24 4	2 12	26 10	3 2	23 20	1 33	21 43	0 42	22 10	0 18	9 34	0 33	15 39	0 21	21 54	1 16	17 4	16 54	6 14	2 44	4 32
T 8	18 50	27 7	3 43	24 20	2 15	26 5	3 2	23 12	1 32	21 42	0 42	22 10	0 18	9 34	0 33	15 39	0 21	21 54	1 16	17 7	16 54	6 17	2 44	4 31
F 9	19 5 26	9 2 52	24 35	2 18	25 59	3 1	23 3	1 31	21 42	0 42	22 9	0 18	9 33	0 33	15 39	0 21	21 54	1 16	17 9	16 55	6 20	2 45	4 31	
S 10	19 19	23 45	1 51	24 49	2 20	25 52	3 1	22 55	1 31	21 41	0 42	22 8	0 18	9 32	0 33	15 39	0 21	21 54	1 16	17 11	16 56	6 23	2 45	4 31
S 11	19 33	20 1	0 44	25 1	2 22	25 44	3 0	22 46	1 30	21 40	0 42	22 7	0 18	9 32	0 33	15 39	0 21	21 54	1 16	17 11	16 57	6 27	2 45	4 30
M 12	19 47	15 12	0n28	25 12	2 23	25 36	2 59	22 37	1 30	21 39	0 42	22 7	0 18	9 31	0 33	15 39	0 21	21 54	1 16	17 11	16 58	6 30	2 46	4 30
T 13	20 1	9 31	1 39	25 21	2 58	25 28	2 58	22 28	1 29	21 38	0 42	22 6	0 18	9 30	0 33	15 39	0 21	21 55	1 16	17 11	16 59	6 33	2 46	4 30
W 14	20 14	3 16	2 46	25 29	2 25	25 18	2 56	22 19	1 28	21 37	0 42	22 5	0 18	9 29	0 33	15 39	0 21	21 55	1 16	17 11	17 0	6 36	2 46	4 29
T 15	20 26	3n16	3 43	25 35	2 25	25 9	2 55	22 9	1 28	21 36	0 42	22 4	0 18	9 29	0 33	15 40	0 21	21 55	1 16	17 12	17 1	6 39	2 47	4 29
F 16	20 39	9 43	4 28	25 40	2 25	24 58	2 53	21 59	1 27	21 35	0 42	22 4	0 18	9 28	0 33	15 40	0 21	21 55	1 16	17 14	17 2	6 42	2 47	4 29
S 17	20 51	15 42	4 54	25 44	2 24	24 47	2 51	21 49	1 27	21 34	0 41	22 3	0 18	9 28	0 33	15 40	0 21	21 55	1 16	17 16	17 3	6 45	2 47	4 29
S 18	21 2 20	47 5 2	25 45	2 22	24 36	2 49	21 39	1 26	21 33	0 41	22 2	0 18	9 27	0 33	15 40	0 21	21 55	1 16	17 19	17 3	6 49	2 48	4 28	
M 19	21 13	24 34	4 49	25 46	2 19	24 24	2 47	21 28	1 25	21 32	0 41	22 1	0 18	9 26	0 33	15 40	0 21	21 55	1 16	17 22	17 4	6 52	2 48	4 28
T 20	21 24	26 41	4 18	25 45	2 16	24 11	2 45	21 17	1 25	21 31	0 41	22 0	0 18	9 26	0 33	15 40	0 21	21 55	1 16	17 25	17 5	6 55	2 48	4 28
W 21	21 35	27 1	3 32	25 42	2 12	23 58	2 42	21 6	1 24	21 30	0 41	21 59	0 19	9 25	0 33	15 40	0 21	21 55	1 16	17 27	17 6	6 58	2 48	4 27
T 22	21 44	25 39	2 34	25 37	2 7	23 44	2 39	20 55	1 23	21 29	0 41	21 58	0 19	9 25	0 33	15 40	0 21	21 56	1 16	17 29	17 7	7 1	2 48	4 27
F 23	21 54	22 51	1 30	25 32	2 1	23 30	2 37	20 44	1 23	21 28	0 41	21 58	0 19	9 24	0 33	15 40	0 22	21 56	1 16	17 30	17 8	7 4	2 48	4 27
S 24	22 3 18	58 0 22	25 25	1 54	23 16	2 33	20 32	1 22	21 27	0 41	21 57	0 19	9 23	0 33	15 40	0 22	21 56	1 16	17 30	17 9	7 7	2 49	4 26	
S 25	22 12	14 21	0s44	25 16	1 46	23 1	2 30	20 20	1 21	21 26	0 40	21 56	0 19	9 23	0 33	15 41	0 22	21 56	1 16	17 30	17 10	7 10	2 49	4 26
M 26	22 20	9 16	1 48	25 6	1 36	22 45	2 27	20 8	1 21	21 25	0 40	21 55	0 19	9 22	0 33	15 41	0 22	21 56	1 16	17 30	17 11	7 14	2 49	4 26
T 27	22 28	3 56	2 45	24 55	1 26	22 30	2 23	19 56	1 20	21 24	0 40	21 54	0 19	9 22	0 33	15 41	0 22	21 56	1 16	17 30	17 12	7 17	2 49	4 25
W 28	22 35	1s28	3 35	24 42	1 14	22 13	2 19	19 43	1 19	21 23	0 40	21 53	0 19	9 21	0 33	15 41	0 22	21 56	1 15	17 30	17 12	7 20	2 49	4 25
T 29	22 42	6 48	4 15	24 28	1 1	21 57	2 15	19 31	1 19	21 22	0 40	21 52	0 19	9 21	0 33	15 41	0							

SWISS EPHEMERIS for the year 1431

DECEMBER 1431 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	5 11 29	17°20'44	1♈ 8	4°R 7	3♋54	9♌52	9°R45	23♍10	25°R22	18°R26	9°R10	10°R50	11°R59	8♎52	12♏32
S 2	5 15 25	18°21'52	13°17	3♋57	4°48	10°38	9♌37	23°16	25°Y21	18♎25	9°R 9	10°R41	11°56	8°58	12°33
M 3	5 19 22	19°23'01	25°39	3°34	5°41	11°24	9°30	23°22	25°20	18°25	9° 8	10°31	11°53	9° 5	12°34
T 4	5 23 18	20°24'10	8♌15	3° 1	6°33	12°11	9°22	23°29	25°19	18°24	9° 7	10°21	11°50	9°12	12°35
W 5	5 27 15	21°25'20	21° 4	2°15	7°25	12°57	9°14	23°35	25°18	18°23	9° 6	10°12	11°47	9°19	12°36
T 6	5 31 12	22°26'30	4♌ 7	1°19	8°16	13°43	9° 6	23°41	25°17	18°23	9° 5	10° 5	11°43	9°25	12°37
F 7	5 35 8	23°27'41	17°23	0°14	9° 6	14°30	8°58	23°48	25°16	18°22	9° 3	10° 0	11°40	9°32	12°38
S 8	5 39 5	24°28'52	0♌49	29♌ 0	9°56	15°16	8°51	23°54	25°15	18°21	9° 2	9°57	11°37	9°39	12°40
S 9	5 43 1	25°30'03	14°25	27°41	10°44	16° 3	8°43	24° 1	25°14	18°20	9° 1	9°D57	11°34	9°45	12°41
M10	5 46 58	26°31'14	28°11	26°20	11°32	16°49	8°36	24° 7	25°13	18°19	9° 0	9°58	11°31	9°52	12°42
T 11	5 50 54	27°32'25	12♌ 5	24°58	12°19	17°35	8°28	24°14	25°12	18°18	8°58	9°59	11°28	9°59	12°44
W12	5 54 51	28°33'36	26° 7	23°38	13° 4	18°22	8°21	24°21	25°12	18°17	8°57	10°R 0	11°24	10° 5	12°45
T 13	5 58 47	29°34'47	10♌16	22°24	13°49	19° 8	8°14	24°27	25°11	18°16	8°56	10° 0	11°21	10°12	12°47
F 14	6 2 44	0♌35'57	24°31	21°16	14°33	19°54	8° 7	24°34	25°10	18°15	8°55	9°58	11°18	10°19	12°49
S 15	6 6 41	1°37'08	8♌49	20°17	15°15	20°41	8° 0	24°41	25°10	18°14	8°53	9°53	11°15	10°26	12°50
S 16	6 10 37	2°38'18	23° 6	19°28	15°57	21°27	7°53	24°48	25° 9	18°13	8°52	9°48	11°12	10°32	12°52
M17	6 14 34	3°39'28	7♌18	18°49	16°37	22°14	7°47	24°54	25° 9	18°12	8°51	9°42	11° 8	10°39	12°54
T 18	6 18 30	4°40'38	21°19	18°20	17°16	23° 0	7°40	25° 1	25° 8	18°11	8°50	9°36	11° 5	10°46	12°55
W19	6 22 27	5°41'48	5♌ 7	18° 1	17°54	23°46	7°34	25° 8	25° 8	18°10	8°48	9°31	11° 2	10°52	12°57
T 20	6 26 23	6°42'58	18°36	17°D52	18°30	24°33	7°27	25°15	25° 8	18° 9	8°47	9°28	10°59	10°59	12°59
F 21	6 30 20	7°44'07	1♌45	17°53	19° 5	25°19	7°21	25°22	25° 7	18° 8	8°46	9°26	10°56	11° 6	13° 1
S 22	6 34 16	8°45'17	14°34	18° 2	19°39	26° 5	7°15	25°29	25° 7	18° 7	8°45	9°D26	10°53	11°13	13° 3
S 23	6 38 13	9°46'26	27° 5	18°18	20°11	26°52	7°10	25°36	25° 7	18° 5	8°43	9°27	10°49	11°19	13° 5
M24	6 42 10	10°47'36	9♌19	18°42	20°41	27°38	7° 4	25°43	25° 7	18° 4	8°42	9°29	10°46	11°26	13° 7
T 25	6 46 6	11°48'45	21°21	19°13	21°10	28°24	6°58	25°50	25° 7	18° 3	8°41	9°31	10°43	11°33	13° 9
W26	6 50 3	12°49'54	3♌15	19°49	21°37	29°10	6°53	25°57	25°D 7	18° 2	8°40	9°32	10°40	11°39	13°12
T 27	6 53 59	13°51'03	15° 6	20°31	22° 2	29°57	6°48	26° 4	25° 7	18° 0	8°38	9°R32	10°37	11°46	13°14
F 28	6 57 56	14°52'12	26°59	21°18	22°26	0♌43	6°43	26°11	25° 7	17°59	8°37	9°32	10°34	11°53	13°16
S 29	7 1 52	15°53'21	8♌59	22° 8	22°48	1°29	6°38	26°18	25° 7	17°58	8°36	9°30	10°30	11°59	13°19
S 30	7 5 49	16°54'29	21°11	23° 3	23° 8	2°15	6°33	26°25	25° 7	17°56	8°35	9°27	10°27	12° 6	13°21
M31	7 9 45	17°55'38	3♌37	24♌ 1	23°R25	3♌ 1	6♌29	26°32	25°Y 7	17°55	8°33	9°R24	10°R24	12°D 13	13°R23

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
S 1	22s55	16s36	5s 1	23s58	0s31	21s22	2s 6	19s 5	1s17	21n20	0s39	21s50	0s19	9n20	0s33	15n42	0n22	21n57	1s15	17s34	17s15	7s29	2s49	4n24
S 2	23 0 20	43 5	5 23	41 0	14 21	5 2	1 18	51 1	17 21	19 0	39 21	49 0	19 9	20 0	33 15	42 0	22 21	57 1	15 17	37 17	16 7	35 2	49 4	24 4
M 3	23 5 24	0 4	55 23	23 0n	5 20	47 1	56 18	38 1	16 21	18 0	39 21	48 0	19 9	19 0	33 15	42 0	22 21	57 1	15 17	40 17	17 7	35 2	48 4	24 4
T 4	23 10 26	12 4	31 23	5 20	24 20	29 1	51 18	24 1	15 21	17 0	39 21	47 0	19 9	19 0	33 15	42 0	22 21	57 1	15 17	42 17	18 7	38 2	48 4	23 4
W 5	23 14 27	4 3	52 22	46 0	43 20	10 1	45 18	10 1	15 21	16 0	39 21	46 0	19 9	18 0	33 15	43 0	22 21	57 1	15 17	45 17	19 7	41 2	48 4	23 4
T 6	23 18 26	28 3	1 22	27 1	3 19	51 1	39 17	56 1	14 21	15 0	39 21	45 0	19 9	18 0	33 15	43 0	22 21	57 1	15 17	47 17	19 7	45 2	48 4	23 4
F 7	23 21 24	21 1	59 22	7 1	23 19	32 1	33 17	42 1	13 21	14 0	38 21	44 0	19 9	18 0	33 15	43 0	22 21	57 1	15 17	48 17	20 7	48 2	48 4	22 4
S 8	23 24 20	50 0	49 21	48 1	43 19	13 1	27 17	28 1	12 21	13 0	38 21	43 0	19 9	18 0	33 15	43 0	22 21	58 1	15 17	48 17	21 7	51 2	48 4	22 4
S 9	23 26 16	10 0n	24 21	29 2	1 18	53 1	20 17	13 1	12 21	12 0	38 21	42 0	20 9	17 0	33 15	44 0	22 21	58 1	15 17	49 17	22 7	54 2	47 4	22 4
M10	23 28 10	37 1	37 21	10 2	18 18	33 1	14 16	58 1	11 21	11 0	38 21	41 0	20 9	17 0	33 15	44 0	22 21	58 1	15 17	48 17	23 7	57 2	47 4	21 4
T 11	23 29 4	30 2	45 20	53 2	32 18	14 1	7 16	43 1	10 21	10 0	38 21	39 0	20 9	17 0	33 15	44 0	22 21	58 1	15 17	48 17	24 8	0 2	47 4	21 4
W12	23 30 1n	52 3	44 20	37 2	45 17	34 0	59 16	28 1	10 21	9 0	38 21	38 0	20 9	16 0	33 15	45 0	22 21	58 1	15 17	48 17	25 8	3 2	47 4	21 4
T 13	23 31 8	12 4	30 20	23 2	55 17	54 0	52 16	13 1	9 21	8 0	37 21	37 0	20 9	16 0	32 15	45 0	22 21	58 1	15 17	48 17	26 8	6 2	46 4	20 4
F 14	23 31 14	9 4	59 20	12 3	2 17	13 0	44 15	58 1	8 21	7 0	37 21	36 0	20 9	16 0	32 15	45 0	22 21	58 1	15 17	48 17	27 8	9 2	46 4	20 4
S 15	23 30 19	22 5	10 20	2 3	8 16	53 0	36 15	42 1	7 21	6 0	37 21	35 0	20 9	16 0	32 15	46 0	22 21	59 1	15 17	50 17	27 8	12 2	46 4	20 4
S 16	23 29 23	28 5	2 19	56 3	10 16	33 0	28 15	27 1	7 21	5 0	37 21	34 0	20 9	16 0	32 15	46 0	22 21	59 1	15 17	51 17	28 8	15 2	45 4	20 4
M17	23 28 26	7 4	35 19	52 3	11 16	12 0	19 15	11 1	6 21	4 0	37 21	33 0	20 9	16 0	32 15	46 0	22 21	59 1	14 17	53 17	29 8	18 2	45 4	19 4
T 18	23 26 27	6 3	52 19	51 3	10 15	52 0	10 14	55 1	5 21	4 0	36 21	31 0	20 9	15 0	32 15	47 0	22 21	59 1	14 17	54 17	30 8	21 2	44 4	19 4
W19	23 23 26	21 2	56 19	52 3	7 15	32 0	1 14	39 1	4 21	3 0	36 21	30 0	20 9	15 0	32 15	47 0	22 21	59 1	14 17	55 17	31 8	24 2	44 4	19 4
T 20	23 21 24	3 1	51 19	55 3	3 15	12 0n	9 14	23 1	4 21	2 0	36 21	29 0	20 9	15 0	32 15	47 0	22 21	59 1	14 17	56 17	32 8	28 2	43 4	18 4
F 21	23 17 20	31 0	42 20	0 2	58 14	51 0	18 14	7 1	3 21	1 0	36 21	28 0	20 9	15 0	32 15	48 0	22 21	59 1	14 17	57 17	33 8	31 2	43 4	18 4
S 22	23 13 16	4 0s	28 20	7 2	52 14	31 0	28 13	50 1	2 21	0 0	36 21	27 0	20 9	15 0	32 15	48 0	22 22	0 1	14 17	57 17	34 8	34 2	42 4	18 4
S 23	23 9 11	2 1	35 20	16 2	45 14	11 0	39 13	34 1	1 21	0 0	35 21	25 0	20 9	15 0	32 15	48 0	22 22	0 1	14 17					