

# SWISS EPHEMERIS for the year 1911

## JANUARY 1911

00:00 UT

| Day  | Sid.t   | ☉        | ☽       | ♀      | ♂      | ♂     | ♂      | ♂      | ♂      | ♂      | ♂      | ♂      | ♂      | ♂     | ♂      |
|------|---------|----------|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| S 1  | 6 38 6  | 9°27'45  | 13°31   | 26°R22 | 17°359 | 8°2   | 9°M31  | 29°R42 | 24°323 | 20°R28 | 26°R41 | 18°R 5 | 16°R26 | 1°R50 | 29°R14 |
| M 2  | 6 42 3  | 10°28'56 | 25°19   | 26°320 | 19°15  | 8°44  | 9°41   | 29°D42 | 24°26  | 20°R27 | 26°R40 | 17°R55 | 16°23  | 1°57  | 29°17  |
| T 3  | 6 45 59 | 11°30'06 | 7°48    | 26°7   | 20°30  | 9°26  | 9°50   | 29°Y42 | 24°30  | 20°25  | 26°38  | 17°44  | 16°20  | 2°3   | 29°20  |
| W 4  | 6 49 56 | 12°31'17 | 20°28   | 25°42  | 21°46  | 10°8  | 9°59   | 29°42  | 24°33  | 20°23  | 26°37  | 17°34  | 16°17  | 2°10  | 29°23  |
| T 5  | 6 53 53 | 13°32'28 | 3°19    | 25°5   | 23°1   | 10°51 | 10°8   | 29°42  | 24°37  | 20°22  | 26°36  | 17°26  | 16°14  | 2°17  | 29°26  |
| F 6  | 6 57 49 | 14°33'38 | 16°24   | 24°17  | 24°16  | 11°33 | 10°17  | 29°42  | 24°40  | 20°20  | 26°35  | 17°20  | 16°10  | 2°23  | 29°29  |
| S 7  | 7 1 46  | 15°34'47 | 29°42   | 23°18  | 25°32  | 12°15 | 10°25  | 29°43  | 24°44  | 20°18  | 26°34  | 17°16  | 16°7   | 2°30  | 29°32  |
| S 8  | 7 5 42  | 16°35'57 | 13°Y15  | 22°11  | 26°47  | 12°58 | 10°34  | 29°43  | 24°47  | 20°17  | 26°33  | 17°D15 | 16°4   | 2°37  | 29°35  |
| M 9  | 7 9 39  | 17°37'05 | 27°4    | 20°57  | 28°2   | 13°40 | 10°42  | 29°44  | 24°51  | 20°15  | 26°32  | 17°15  | 16°1   | 2°43  | 29°39  |
| T 10 | 7 13 35 | 18°38'14 | 11°B11  | 19°39  | 29°18  | 14°22 | 10°51  | 29°45  | 24°54  | 20°13  | 26°31  | 17°R16 | 15°58  | 2°50  | 29°42  |
| W 11 | 7 17 32 | 19°39'21 | 25°35   | 18°19  | 0°33   | 15°5  | 10°59  | 29°46  | 24°58  | 20°12  | 26°30  | 17°15  | 15°54  | 2°56  | 29°45  |
| T 12 | 7 21 28 | 20°40'28 | 10°II13 | 17°0   | 1°48   | 15°47 | 11°7   | 29°47  | 25°1   | 20°10  | 26°28  | 17°13  | 15°51  | 3°3   | 29°49  |
| F 13 | 7 25 25 | 21°41'35 | 25°1    | 15°44  | 3°4    | 16°30 | 11°15  | 29°48  | 25°5   | 20°8   | 26°27  | 17°9   | 15°48  | 3°10  | 29°52  |
| S 14 | 7 29 22 | 22°42'41 | 9°E52   | 14°33  | 4°19   | 17°12 | 11°23  | 29°49  | 25°8   | 20°6   | 26°26  | 17°1   | 15°45  | 3°16  | 29°55  |
| S 15 | 7 33 18 | 23°43'47 | 24°37   | 13°29  | 5°34   | 17°55 | 11°30  | 29°51  | 25°12  | 20°5   | 26°25  | 16°51  | 15°42  | 3°23  | 29°59  |
| M 16 | 7 37 15 | 24°44'52 | 9°R 9   | 12°33  | 6°50   | 18°38 | 11°38  | 29°52  | 25°16  | 20°3   | 26°24  | 16°40  | 15°39  | 3°30  | 0°2    |
| T 17 | 7 41 11 | 25°45'57 | 23°21   | 11°47  | 8°5    | 19°20 | 11°45  | 29°54  | 25°19  | 20°1   | 26°23  | 16°29  | 15°35  | 3°36  | 0°6    |
| W 18 | 7 45 8  | 26°47'01 | 7°M 7   | 11°9   | 9°20   | 20°3  | 11°53  | 29°56  | 25°23  | 20°0   | 26°22  | 16°19  | 15°32  | 3°43  | 0°9    |
| T 19 | 7 49 4  | 27°48'05 | 20°25   | 10°42  | 10°35  | 20°46 | 12°0   | 29°57  | 25°26  | 19°58  | 26°21  | 16°11  | 15°29  | 3°50  | 0°13   |
| F 20 | 7 53 1  | 28°49'08 | 3°A18   | 10°23  | 11°51  | 21°29 | 12°7   | 29°59  | 25°30  | 19°56  | 26°20  | 16°6   | 15°26  | 3°56  | 0°16   |
| S 21 | 7 56 57 | 29°50'11 | 15°47   | 10°14  | 13°6   | 22°11 | 12°14  | 0°B 1  | 25°33  | 19°55  | 26°19  | 16°3   | 15°23  | 4°3   | 0°20   |
| S 22 | 8 0 54  | 0°51'14  | 27°57   | 10°D13 | 14°21  | 22°54 | 12°20  | 0°3    | 25°37  | 19°53  | 26°18  | 16°D 2 | 15°20  | 4°10  | 0°23   |
| M 23 | 8 4 51  | 1°52'16  | 9°M54   | 10°20  | 15°36  | 23°37 | 12°27  | 0°6    | 25°40  | 19°51  | 26°17  | 16°R 2 | 15°16  | 4°16  | 0°27   |
| T 24 | 8 8 47  | 2°53'18  | 21°42   | 10°34  | 16°51  | 24°20 | 12°33  | 0°8    | 25°44  | 19°50  | 26°16  | 16°2   | 15°13  | 4°23  | 0°31   |
| W 25 | 8 12 44 | 3°54'19  | 3°A29   | 10°55  | 18°6   | 25°3  | 12°40  | 0°10   | 25°47  | 19°48  | 26°16  | 16°1   | 15°10  | 4°30  | 0°34   |
| T 26 | 8 16 40 | 4°55'20  | 15°18   | 11°23  | 19°22  | 25°46 | 12°46  | 0°13   | 25°51  | 19°46  | 26°15  | 15°57  | 15°7   | 4°36  | 0°38   |
| F 27 | 8 20 37 | 5°56'20  | 27°14   | 11°55  | 20°37  | 26°29 | 12°52  | 0°16   | 25°54  | 19°45  | 26°14  | 15°51  | 15°4   | 4°43  | 0°42   |
| S 28 | 8 24 33 | 6°57'20  | 9°B21   | 12°34  | 21°52  | 27°12 | 12°57  | 0°18   | 25°58  | 19°43  | 26°13  | 15°42  | 15°0   | 4°50  | 0°45   |
| S 29 | 8 28 30 | 7°58'18  | 21°41   | 13°16  | 23°7   | 27°55 | 13°3   | 0°21   | 26°1   | 19°42  | 26°12  | 15°30  | 14°57  | 4°56  | 0°49   |
| M 30 | 8 32 26 | 8°59'16  | 4°A14   | 14°3   | 24°22  | 28°38 | 13°9   | 0°24   | 26°5   | 19°40  | 26°11  | 15°17  | 14°54  | 5°3   | 0°53   |
| T 31 | 8 36 23 | 10°0'13  | 17°2    | 14°B54 | 25°37  | 29°21 | 13°M14 | 0°B27  | 26°B 8 | 19°B38 | 26°B10 | 15°B 2 | 14°B51 | 5°B10 | 0°B57  |

Delta T = 11.50 sec.

## FEBRUARY 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♂      | ♂      | ♂      | ♂     | ♂      | ♂      | ♂      | ♂      | ♂      | ♂     | ♂     |
|------|----------|----------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|-------|
| W 1  | 8 40 20  | 11°18'08 | 0°A 3  | 15°B48 | 26°A52 | 0°B 5  | 13°M19 | 0°B30 | 26°B12 | 19°R37 | 26°R10 | 14°R49 | 14°B48 | 5°A16 | 1°B 1 |
| T 2  | 8 44 16  | 12°2'03  | 13°16  | 16°46  | 28°7   | 0°48   | 13°24  | 0°34  | 26°15  | 19°B35 | 26°B 9 | 14°B37 | 14°45  | 5°23  | 1°4   |
| F 3  | 8 48 13  | 13°2'56  | 26°39  | 17°46  | 29°22  | 1°31   | 13°29  | 0°37  | 26°19  | 19°34  | 26°8   | 14°28  | 14°41  | 5°29  | 1°8   |
| S 4  | 8 52 9   | 14°3'48  | 10°Y12 | 18°49  | 0°A37  | 2°14   | 13°34  | 0°41  | 26°22  | 19°32  | 26°7   | 14°23  | 14°38  | 5°36  | 1°12  |
| S 5  | 8 56 6   | 15°4'38  | 23°54  | 19°55  | 1°52   | 2°57   | 13°38  | 0°44  | 26°26  | 19°31  | 26°6   | 14°20  | 14°35  | 5°43  | 1°16  |
| M 6  | 9 0 2    | 16°5'27  | 7°B45  | 21°2   | 3°7    | 3°41   | 13°42  | 0°48  | 26°29  | 19°29  | 26°6   | 14°19  | 14°32  | 5°49  | 1°20  |
| T 7  | 9 3 59   | 17°6'15  | 21°45  | 22°12  | 4°22   | 4°24   | 13°47  | 0°51  | 26°32  | 19°28  | 26°5   | 14°19  | 14°29  | 5°56  | 1°24  |
| W 8  | 9 7 55   | 18°7'01  | 5°II53 | 23°24  | 5°37   | 5°8    | 13°51  | 0°55  | 26°36  | 19°26  | 26°4   | 14°18  | 14°26  | 6°3   | 1°28  |
| T 9  | 9 11 52  | 19°7'45  | 20°9   | 24°37  | 6°52   | 5°51   | 13°54  | 0°59  | 26°39  | 19°25  | 26°4   | 14°16  | 14°22  | 6°9   | 1°32  |
| F 10 | 9 15 49  | 20°8'28  | 4°E31  | 25°52  | 8°7    | 6°34   | 13°58  | 1°3   | 26°42  | 19°23  | 26°3   | 14°10  | 14°19  | 6°16  | 1°36  |
| S 11 | 9 19 45  | 21°9'09  | 18°55  | 27°9   | 9°22   | 7°18   | 14°2   | 1°7   | 26°46  | 19°22  | 26°2   | 14°2   | 14°16  | 6°23  | 1°40  |
| S 12 | 9 23 42  | 22°9'49  | 3°R15  | 28°27  | 10°36  | 8°1    | 14°5   | 1°12  | 26°49  | 19°21  | 26°2   | 13°52  | 14°13  | 6°29  | 1°44  |
| M 13 | 9 27 38  | 23°10'27 | 17°25  | 29°46  | 11°51  | 8°45   | 14°8   | 1°16  | 26°52  | 19°19  | 26°1   | 13°39  | 14°10  | 6°36  | 1°48  |
| T 14 | 9 31 35  | 24°11'04 | 1°M21  | 1°A 7  | 13°6   | 9°28   | 14°11  | 1°20  | 26°55  | 19°18  | 26°1   | 13°27  | 14°6   | 6°43  | 1°52  |
| W 15 | 9 35 31  | 25°11'40 | 14°57  | 2°29   | 14°21  | 10°12  | 14°14  | 1°25  | 26°59  | 19°17  | 26°0   | 13°15  | 14°3   | 6°49  | 1°56  |
| T 16 | 9 39 28  | 26°12'13 | 28°11  | 3°53   | 15°35  | 10°56  | 14°16  | 1°29  | 27°2   | 19°15  | 26°0   | 13°6   | 14°0   | 6°56  | 2°0   |
| F 17 | 9 43 24  | 27°12'46 | 11°A 2 | 5°17   | 16°50  | 11°39  | 14°19  | 1°34  | 27°5   | 19°14  | 25°59  | 12°59  | 13°57  | 7°3   | 2°4   |
| S 18 | 9 47 21  | 28°13'17 | 23°32  | 6°43   | 18°5   | 12°23  | 14°21  | 1°39  | 27°8   | 19°13  | 25°59  | 12°55  | 13°54  | 7°9   | 2°8   |
| S 19 | 9 51 18  | 29°13'47 | 5°M44  | 8°9    | 19°19  | 13°7   | 14°23  | 1°43  | 27°11  | 19°12  | 25°58  | 12°54  | 13°51  | 7°16  | 2°12  |
| M 20 | 9 55 14  | 0°A14'16 | 17°43  | 9°37   | 20°34  | 13°51  | 14°25  | 1°48  | 27°15  | 19°10  | 25°58  | 12°D54 | 13°47  | 7°23  | 2°16  |
| T 21 | 9 59 11  | 1°14'43  | 29°34  | 11°6   | 21°48  | 14°34  | 14°27  | 1°53  | 27°18  | 19°9   | 25°57  | 12°R54 | 13°44  | 7°29  | 2°20  |
| W 22 | 10 3 7   | 2°15'09  | 11°A22 | 12°36  | 23°3   | 15°18  | 14°28  | 1°58  | 27°21  | 19°8   | 25°57  | 12°54  | 13°41  | 7°36  | 2°24  |
| T 23 | 10 7 4   | 3°15'34  | 23°13  | 14°7   | 24°17  | 16°2   | 14°29  | 2°3   | 27°24  | 19°7   | 25°57  | 12°51  | 13°38  | 7°43  | 2°28  |
| F 24 | 10 11 0  | 4°15'58  | 5°B12  | 15°39  | 25°32  | 16°46  | 14°30  | 2°9   | 27°27  | 19°6   | 25°56  | 12°47  | 13°35  | 7°49  | 2°32  |
| S 25 | 10 14 57 | 5°16'20  | 17°24  | 17°11  | 26°46  | 17°30  | 14°31  | 2°14  | 27°30  | 19°5   | 25°56  | 12°40  | 13°32  | 7°56  | 2°36  |
| S 26 | 10 18 53 | 6°16'40  | 29°51  | 18°45  | 28°1   | 18°14  | 14°32  | 2°19  | 27°33  | 19°4   | 25°56  | 12°31  | 13°28  | 8°3   | 2°40  |
| M 27 | 10 22 50 | 7°16'59  | 12°A36 | 20°20  | 29°15  | 18°58  | 14°33  | 2°25  | 27°36  | 19°3   | 25°55  | 12°20  | 13°25  | 8°9   | 2°44  |
| T 28 | 10 26 47 | 8°17'16  | 25°A40 | 21°A56 | 0°Y29  | 19°B42 | 14°M33 | 2°B30 | 27°B39 | 19°B 2 | 25°B55 | 12°B 8 | 13°B22 | 8°B16 | 2°B48 |

Delta T = 11.64 sec.

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# SWISS EPHEMERIS for the year 1911

MARCH 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♂     | ♂     | ♂      | ♂    | ♂     | ♂      | ♂      | ♂      | ♂      | ♂      | ♂    |
|------|----------|----------|--------|--------|-------|-------|--------|------|-------|--------|--------|--------|--------|--------|------|
| W 1  | 10 30 43 | 9°17'31  | 9°1    | 23°33  | 1°44  | 20°26 | 14°R33 | 2°36 | 27°41 | 19°R 1 | 25°R55 | 11°R57 | 13°R19 | 8°23   | 2°52 |
| T 2  | 10 34 40 | 10°17'45 | 22°38  | 25°11  | 2°58  | 21°10 | 14°M33 | 2°41 | 27°44 | 19°R 0 | 25°R55 | 11°R47 | 13°R16 | 8°29   | 2°56 |
| F 3  | 10 38 36 | 11°17'57 | 6°Y28  | 26°50  | 4°12  | 21°54 | 14°33  | 2°47 | 27°47 | 18°59  | 25°54  | 11°40  | 13°12  | 8°36   | 3° 0 |
| S 4  | 10 42 33 | 12°18'07 | 20°26  | 28°31  | 5°27  | 22°38 | 14°33  | 2°53 | 27°50 | 18°58  | 25°54  | 11°36  | 13° 9  | 8°43   | 3° 4 |
| S 5  | 10 46 29 | 13°18'14 | 4°29   | 0°12   | 6°41  | 23°22 | 14°32  | 2°59 | 27°53 | 18°57  | 25°54  | 11°34  | 13° 6  | 8°49   | 3° 8 |
| M 6  | 10 50 26 | 14°18'20 | 18°36  | 1°54   | 7°55  | 24° 6 | 14°31  | 3° 4 | 27°55 | 18°56  | 25°54  | 11°D34 | 13° 3  | 8°56   | 3°11 |
| T 7  | 10 54 22 | 15°18'24 | 2°II43 | 3°37   | 9° 9  | 24°50 | 14°30  | 3°10 | 27°58 | 18°55  | 25°54  | 11°34  | 13° 0  | 9° 3   | 3°15 |
| W 8  | 10 58 19 | 16°18'25 | 16°51  | 5°22   | 10°23 | 25°34 | 14°29  | 3°16 | 28° 1 | 18°55  | 25°54  | 11°R35 | 12°57  | 9° 9   | 3°19 |
| T 9  | 11 2 16  | 17°18'25 | 0°57   | 7° 7   | 11°37 | 26°19 | 14°28  | 3°23 | 28° 3 | 18°54  | 25°54  | 11°34  | 12°53  | 9°16   | 3°23 |
| F 10 | 11 6 12  | 18°18'22 | 15° 0  | 8°54   | 12°51 | 27° 3 | 14°26  | 3°29 | 28° 6 | 18°53  | 25°54  | 11°31  | 12°50  | 9°23   | 3°27 |
| S 11 | 11 10 9  | 19°18'17 | 28°59  | 10°42  | 14° 5 | 27°47 | 14°24  | 3°35 | 28° 8 | 18°53  | 25°D54 | 11°26  | 12°47  | 9°29   | 3°31 |
| S 12 | 11 14 5  | 20°18'10 | 12°51  | 12°31  | 15°19 | 28°31 | 14°23  | 3°41 | 28°11 | 18°52  | 25°54  | 11°19  | 12°44  | 9°36   | 3°35 |
| M13  | 11 18 2  | 21°18'00 | 26°34  | 14°21  | 16°32 | 29°15 | 14°20  | 3°47 | 28°13 | 18°51  | 25°54  | 11°10  | 12°41  | 9°42   | 3°39 |
| T 14 | 11 21 58 | 22°17'49 | 10°14  | 16°12  | 17°46 | 0° 0  | 14°18  | 3°54 | 28°16 | 18°51  | 25°54  | 11° 2  | 12°38  | 9°49   | 3°43 |
| W15  | 11 25 55 | 23°17'35 | 23°19  | 18° 5  | 19° 0 | 0°44  | 14°16  | 4° 0 | 28°18 | 18°50  | 25°54  | 10°54  | 12°34  | 9°56   | 3°46 |
| T 16 | 11 29 51 | 24°17'19 | 6°17   | 19°58  | 20°14 | 1°28  | 14°13  | 4° 7 | 28°21 | 18°50  | 25°54  | 10°47  | 12°31  | 10° 2  | 3°50 |
| F 17 | 11 33 48 | 25°17'02 | 18°57  | 21°53  | 21°27 | 2°13  | 14°10  | 4°13 | 28°23 | 18°49  | 25°54  | 10°43  | 12°28  | 10° 9  | 3°54 |
| S 18 | 11 37 45 | 26°16'43 | 1°12   | 23°49  | 22°41 | 2°57  | 14° 7  | 4°20 | 28°25 | 18°49  | 25°54  | 10°40  | 12°25  | 10°16  | 3°58 |
| S 19 | 11 41 41 | 27°16'21 | 13°32  | 25°46  | 23°54 | 3°42  | 14° 4  | 4°27 | 28°27 | 18°48  | 25°54  | 10°D40 | 12°22  | 10°22  | 4° 2 |
| M20  | 11 45 38 | 28°15'58 | 25°30  | 27°44  | 25° 8 | 4°26  | 14° 1  | 4°33 | 28°30 | 18°48  | 25°54  | 10°41  | 12°18  | 10°29  | 4° 5 |
| T 21 | 11 49 34 | 29°15'34 | 7°22   | 29°43  | 26°21 | 5°11  | 13°57  | 4°40 | 28°32 | 18°48  | 25°55  | 10°42  | 12°15  | 10°36  | 4° 9 |
| W22  | 11 53 31 | 0°Y15'07 | 19°11  | 1°Y42  | 27°35 | 5°55  | 13°54  | 4°47 | 28°34 | 18°47  | 25°55  | 10°44  | 12°12  | 10°42  | 4°13 |
| T 23 | 11 57 27 | 1°14'39  | 1°3    | 3°43   | 28°48 | 6°39  | 13°50  | 4°54 | 28°36 | 18°47  | 25°55  | 10°R44 | 12° 9  | 10°49  | 4°16 |
| F 24 | 12 1 24  | 2°14'09  | 13° 2  | 5°44   | 0° 1  | 7°24  | 13°46  | 5° 0 | 28°38 | 18°47  | 25°55  | 10°44  | 12° 6  | 10°56  | 4°20 |
| S 25 | 12 5 20  | 3°13'37  | 25°15  | 7°46   | 1°14  | 8° 9  | 13°42  | 5° 7 | 28°40 | 18°46  | 25°56  | 10°41  | 12° 3  | 11° 2  | 4°24 |
| S 26 | 12 9 17  | 4°13'04  | 7°44   | 9°47   | 2°28  | 8°53  | 13°37  | 5°14 | 28°42 | 18°46  | 25°56  | 10°37  | 11°59  | 11° 9  | 4°27 |
| M27  | 12 13 14 | 5°12'29  | 20°34  | 11°49  | 3°41  | 9°38  | 13°33  | 5°21 | 28°44 | 18°46  | 25°56  | 10°32  | 11°56  | 11°16  | 4°31 |
| T 28 | 12 17 10 | 6°11'51  | 3°46   | 13°51  | 4°54  | 10°22 | 13°28  | 5°28 | 28°46 | 18°46  | 25°57  | 10°27  | 11°53  | 11°22  | 4°34 |
| W29  | 12 21 7  | 7°11'12  | 17°20  | 15°53  | 6° 7  | 11° 7 | 13°23  | 5°35 | 28°48 | 18°46  | 25°57  | 10°21  | 11°50  | 11°29  | 4°38 |
| T 30 | 12 25 3  | 8°10'31  | 1°Y15  | 17°53  | 7°20  | 11°51 | 13°18  | 5°42 | 28°49 | 18°46  | 25°58  | 10°16  | 11°47  | 11°36  | 4°41 |
| F 31 | 12 29 0  | 9°Y 9'48 | 15°Y27 | 19°Y53 | 8°33  | 12°36 | 13°M13 | 5°50 | 28°51 | 18°D46 | 25°Y58 | 10°R13 | 11°R43 | 11°R42 | 4°45 |

Delta T = 11.77 sec.

APRIL 1911

00:00 UT

| Day  | Sid.t    | ☉         | ☽       | ♀      | ♂       | ♂     | ♂      | ♂     | ♂      | ♂      | ♂       | ♂      | ♂      | ♂      | ♂     |
|------|----------|-----------|---------|--------|---------|-------|--------|-------|--------|--------|---------|--------|--------|--------|-------|
| S 1  | 12 32 56 | 10°Y 9'03 | 29°Y52  | 21°Y50 | 9°R46   | 13°21 | 13°R 8 | 5°57  | 28°53  | 18°R46 | 25°Y58  | 10°R11 | 11°R40 | 11°R49 | 4°R48 |
| S 2  | 12 36 53 | 11° 8'15  | 14°R22  | 23°47  | 10°59   | 14° 5 | 13°M 3 | 6° 4  | 28°54  | 18°46  | 25°59   | 10°D11 | 11°37  | 11°56  | 4°52  |
| M 3  | 12 40 49 | 12° 7'26  | 28°54   | 25°40  | 12°11   | 14°50 | 12°57  | 6°11  | 28°56  | 18°46  | 25°59   | 10°R12 | 11°34  | 12° 2  | 4°55  |
| T 4  | 12 44 46 | 13° 6'34  | 13°II22 | 27°32  | 13°24   | 15°35 | 12°51  | 6°19  | 28°57  | 18°46  | 26° 0   | 10°13  | 11°31  | 12° 9  | 4°58  |
| W 5  | 12 48 43 | 14° 5'40  | 27°42   | 29°20  | 14°37   | 16°19 | 12°46  | 6°26  | 28°59  | 18°46  | 26° 0   | 10°14  | 11°28  | 12°16  | 5° 2  |
| T 6  | 12 52 39 | 15° 4'44  | 11°R52  | 1°R 5  | 15°49   | 17° 4 | 12°40  | 6°33  | 29° 0  | 18°46  | 26° 1   | 10°R15 | 11°24  | 12°22  | 5° 5  |
| F 7  | 12 56 36 | 16° 3'45  | 25°50   | 2°46   | 17° 2   | 17°49 | 12°34  | 6°41  | 29° 2  | 18°47  | 26° 2   | 10°15  | 11°21  | 12°29  | 5° 8  |
| S 8  | 13 0 32  | 17° 2'44  | 9°R35   | 4°23   | 18°14   | 18°33 | 12°27  | 6°48  | 29° 3  | 18°47  | 26° 2   | 10°14  | 11°18  | 12°36  | 5°11  |
| S 9  | 13 4 29  | 18° 1'41  | 23° 7   | 5°56   | 19°27   | 19°18 | 12°21  | 6°55  | 29° 4  | 18°47  | 26° 3   | 10°11  | 11°15  | 12°42  | 5°15  |
| M10  | 13 8 25  | 19° 0'35  | 6°R25   | 7°24   | 20°39   | 20° 3 | 12°15  | 7° 3  | 29° 6  | 18°48  | 26° 3   | 10° 8  | 11°12  | 12°49  | 5°18  |
| T 11 | 13 12 22 | 19°59'27  | 19°29   | 8°47   | 21°51   | 20°47 | 12° 8  | 7°10  | 29° 7  | 18°48  | 26° 4   | 10° 5  | 11° 9  | 12°56  | 5°21  |
| W12  | 13 16 18 | 20°58'17  | 2°R20   | 10° 5  | 23° 3   | 21°32 | 12° 1  | 7°18  | 29° 8  | 18°48  | 26° 5   | 10° 2  | 11° 5  | 13° 2  | 5°24  |
| T 13 | 13 20 15 | 21°57'05  | 14°58   | 11°18  | 24°16   | 22°17 | 11°55  | 7°25  | 29° 9  | 18°49  | 26° 5   | 10° 0  | 11° 2  | 13° 9  | 5°27  |
| F 14 | 13 24 11 | 22°55'51  | 27°23   | 12°25  | 25°28   | 23° 2 | 11°48  | 7°33  | 29°10  | 18°49  | 26° 6   | 9°59   | 10°59  | 13°16  | 5°30  |
| S 15 | 13 28 8  | 23°54'35  | 9°M36   | 13°27  | 26°40   | 23°46 | 11°41  | 7°40  | 29°11  | 18°50  | 26° 7   | 9°D58  | 10°56  | 13°22  | 5°33  |
| S 16 | 13 32 5  | 24°53'17  | 21°40   | 14°23  | 27°52   | 24°31 | 11°34  | 7°48  | 29°12  | 18°50  | 26° 8   | 9°59   | 10°53  | 13°29  | 5°36  |
| M17  | 13 36 1  | 25°51'57  | 3°R35   | 15°13  | 29° 3   | 25°16 | 11°27  | 7°55  | 29°13  | 18°51  | 26° 8   | 10° 0  | 10°49  | 13°36  | 5°39  |
| T 18 | 13 39 58 | 26°50'36  | 15°26   | 15°57  | 0°II15  | 26° 0 | 11°20  | 8° 3  | 29°14  | 18°51  | 26° 9   | 10° 1  | 10°46  | 13°42  | 5°41  |
| W19  | 13 43 54 | 27°49'12  | 27°15   | 16°36  | 1°27    | 26°45 | 11°13  | 8°11  | 29°15  | 18°52  | 26°10   | 10° 2  | 10°43  | 13°49  | 5°44  |
| T 20 | 13 47 51 | 28°47'47  | 9°R 7   | 17° 8  | 2°38    | 27°30 | 11° 5  | 8°18  | 29°16  | 18°52  | 26°11   | 10° 3  | 10°40  | 13°56  | 5°47  |
| F 21 | 13 51 47 | 29°46'21  | 21° 7   | 17°34  | 3°50    | 28°15 | 10°58  | 8°26  | 29°16  | 18°53  | 26°12   | 10° 4  | 10°37  | 14° 2  | 5°50  |
| S 22 | 13 55 44 | 0°R44'52  | 3°R18   | 17°54  | 5° 2    | 28°59 | 10°51  | 8°34  | 29°17  | 18°54  | 26°13   | 10°R 4 | 10°34  | 14° 9  | 5°52  |
| S 23 | 13 59 40 | 1°43'22   | 15°45   | 18° 9  | 6°13    | 29°44 | 10°43  | 8°41  | 29°18  | 18°55  | 26°14   | 10° 3  | 10°30  | 14°16  | 5°55  |
| M24  | 14 3 37  | 2°41'51   | 28°33   | 18°17  | 7°24    | 0°R29 | 10°36  | 8°49  | 29°18  | 18°55  | 26°14   | 10° 3  | 10°27  | 14°22  | 5°58  |
| T 25 | 14 7 34  | 3°40'18   | 11°R44  | 18°R20 | 8°36    | 1°14  | 10°28  | 8°57  | 29°19  | 18°56  | 26°15   | 10° 2  | 10°24  | 14°29  | 6° 0  |
| W26  | 14 11 30 | 4°38'43   | 25°21   | 18°17  | 9°47    | 1°58  | 10°21  | 9° 4  | 29°19  | 18°57  | 26°16   | 10° 1  | 10°21  | 14°36  | 6° 3  |
| T 27 | 14 15 27 | 5°37'06   | 9°Y22   | 18° 9  | 10°58   | 2°43  | 10°13  | 9°12  | 29°20  | 18°58  | 26°17   | 10° 1  | 10°18  | 14°42  | 6° 5  |
| F 28 | 14 19 23 | 6°35'28   | 23°46   | 17°55  | 12° 9   | 3°28  | 10° 5  | 9°20  | 29°20  | 18°59  | 26°18   | 10° 1  | 10°15  | 14°49  | 6° 8  |
| S 29 | 14 23 20 | 7°33'48   | 8°R29   | 17°37  | 13°20   | 4°13  | 9°58   | 9°27  | 29°20  | 19° 0  | 26°19   | 10°D 0 | 10°11  | 14°56  | 6°10  |
| S 30 | 14 27 16 | 8°R32'06  | 23°R22  | 17°R14 | 14°II31 | 4°R57 | 9°M50  | 9°R35 | 29°R21 | 19°R 1 | 26°II20 | 10°R 0 | 10°R 8 | 15°R 2 | 6°R12 |

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# SWISS EPHEMERIS for the year 1911

MAY 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂      | ♂    | ♂     | ♂    |
|------|----------|----------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|------|-------|------|
| M 1  | 14 31 13 | 9♂30'23  | 8♂19  | 16°R48 | 15♂41 | 5♂42  | 9°R42 | 9♂43  | 29♂21  | 19♂2  | 26♂21 | 10♂1   | 10♂5 | 15♂9  | 6♂14 |
| T 2  | 14 35 9  | 10°28'37 | 23°11 | 16♂18  | 16°52 | 6°27  | 9♂35  | 9°50  | 29°21  | 19°3  | 26°22 | 10°R 1 | 10°2 | 15°16 | 6°17 |
| W 3  | 14 39 6  | 11°26'50 | 7♂51  | 15°45  | 18°3  | 7°11  | 9°27  | 9°58  | 29°21  | 19°4  | 26°23 | 10°0   | 9°59 | 15°22 | 6°19 |
| T 4  | 14 43 3  | 12°25'01 | 22°15 | 15°10  | 19°13 | 7°56  | 9°20  | 10°6  | 29°21  | 19°5  | 26°24 | 10°0   | 9°55 | 15°29 | 6°21 |
| F 5  | 14 46 59 | 13°23'09 | 6♂19  | 14°34  | 20°24 | 8°41  | 9°12  | 10°14 | 29°R21 | 19°6  | 26°26 | 10°0   | 9°52 | 15°36 | 6°23 |
| S 6  | 14 50 56 | 14°21'16 | 20°2  | 13°57  | 21°34 | 9°25  | 9°4   | 10°21 | 29°21  | 19°7  | 26°27 | 10°D 0 | 9°49 | 15°42 | 6°25 |
| S 7  | 14 54 52 | 15°19'21 | 3♂25  | 13°19  | 22°44 | 10°10 | 8°57  | 10°29 | 29°21  | 19°8  | 26°28 | 10°0   | 9°46 | 15°49 | 6°27 |
| M 8  | 14 58 49 | 16°17'23 | 16°28 | 12°42  | 23°54 | 10°54 | 8°49  | 10°37 | 29°21  | 19°9  | 26°29 | 10°1   | 9°43 | 15°56 | 6°29 |
| T 9  | 15 2 45  | 17°15'24 | 29°15 | 12°6   | 25°4  | 11°39 | 8°42  | 10°44 | 29°21  | 19°11 | 26°30 | 10°1   | 9°40 | 16°2  | 6°31 |
| W10  | 15 6 42  | 18°13'23 | 11♂47 | 11°32  | 26°14 | 12°23 | 8°34  | 10°52 | 29°21  | 19°12 | 26°31 | 10°2   | 9°36 | 16°9  | 6°33 |
| T 11 | 15 10 38 | 19°11'20 | 24°7  | 11°0   | 27°24 | 13°8  | 8°27  | 11°0  | 29°20  | 19°13 | 26°32 | 10°3   | 9°33 | 16°16 | 6°34 |
| F 12 | 15 14 35 | 20°9'15  | 6♂16  | 10°30  | 28°34 | 13°52 | 8°19  | 11°7  | 29°20  | 19°14 | 26°34 | 10°R 3 | 9°30 | 16°22 | 6°36 |
| S 13 | 15 18 32 | 21°7'09  | 18°18 | 10°4   | 29°43 | 14°37 | 8°12  | 11°15 | 29°20  | 19°16 | 26°35 | 10°3   | 9°27 | 16°29 | 6°38 |
| S 14 | 15 22 28 | 22°5'02  | 0♂14  | 9°42   | 0♂53  | 15°21 | 8°5   | 11°22 | 29°19  | 19°17 | 26°36 | 10°2   | 9°24 | 16°36 | 6°39 |
| M15  | 15 26 25 | 23°2'53  | 12°5  | 9°23   | 2°2   | 16°6  | 7°57  | 11°30 | 29°19  | 19°19 | 26°37 | 10°1   | 9°20 | 16°42 | 6°41 |
| T 16 | 15 30 21 | 24°0'42  | 23°55 | 9°8    | 3°12  | 16°50 | 7°50  | 11°38 | 29°18  | 19°20 | 26°38 | 9°59   | 9°17 | 16°49 | 6°42 |
| W17  | 15 34 18 | 24°58'31 | 5♂45  | 8°58   | 4°21  | 17°35 | 7°43  | 11°45 | 29°18  | 19°21 | 26°40 | 9°57   | 9°14 | 16°56 | 6°44 |
| T 18 | 15 38 14 | 25°56'18 | 17°39 | 8°52   | 5°30  | 18°19 | 7°36  | 11°53 | 29°17  | 19°23 | 26°41 | 9°55   | 9°11 | 17°3  | 6°45 |
| F 19 | 15 42 11 | 26°54'04 | 29°40 | 8°D51  | 6°39  | 19°3  | 7°29  | 12°0  | 29°16  | 19°24 | 26°42 | 9°53   | 9°8  | 17°9  | 6°47 |
| S 20 | 15 46 8  | 27°51'48 | 11♂51 | 8°54   | 7°48  | 19°48 | 7°23  | 12°8  | 29°16  | 19°26 | 26°43 | 9°51   | 9°5  | 17°16 | 6°48 |
| S 21 | 15 50 4  | 28°49'32 | 24°16 | 9°2    | 8°56  | 20°32 | 7°16  | 12°15 | 29°15  | 19°27 | 26°45 | 9°D50  | 9°1  | 17°23 | 6°49 |
| M22  | 15 54 1  | 29°47'14 | 7♂0   | 9°15   | 10°5  | 21°16 | 7°9   | 12°23 | 29°14  | 19°29 | 26°46 | 9°51   | 8°58 | 17°29 | 6°50 |
| T 23 | 15 57 57 | 0♂44'56  | 20°5  | 9°32   | 11°13 | 22°0  | 7°3   | 12°30 | 29°13  | 19°31 | 26°47 | 9°51   | 8°55 | 17°36 | 6°51 |
| W24  | 16 1 54  | 1°42'36  | 3♂36  | 9°53   | 12°21 | 22°45 | 6°56  | 12°38 | 29°12  | 19°32 | 26°49 | 9°53   | 8°52 | 17°43 | 6°52 |
| T 25 | 16 5 50  | 2°40'15  | 17°33 | 10°18  | 13°30 | 23°29 | 6°50  | 12°45 | 29°11  | 19°34 | 26°50 | 9°54   | 8°49 | 17°49 | 6°53 |
| F 26 | 16 9 47  | 3°37'54  | 1♂57  | 10°48  | 14°38 | 24°13 | 6°44  | 12°53 | 29°10  | 19°35 | 26°51 | 9°55   | 8°46 | 17°56 | 6°54 |
| S 27 | 16 13 43 | 4°35'31  | 16°43 | 11°22  | 15°46 | 24°57 | 6°38  | 13°0  | 29°9   | 19°37 | 26°53 | 9°R55  | 8°42 | 18°3  | 6°55 |
| S 28 | 16 17 40 | 5°33'07  | 1♂46  | 12°0   | 16°53 | 25°41 | 6°32  | 13°7  | 29°8   | 19°39 | 26°54 | 9°54   | 8°39 | 18°9  | 6°56 |
| M29  | 16 21 37 | 6°30'43  | 16°47 | 12°42  | 18°1  | 26°25 | 6°26  | 13°15 | 29°7   | 19°40 | 26°55 | 9°51   | 8°36 | 18°16 | 6°57 |
| T 30 | 16 25 33 | 7°28'17  | 2♂8   | 13°27  | 19°8  | 27°9  | 6°20  | 13°22 | 29°6   | 19°42 | 26°57 | 9°48   | 8°33 | 18°23 | 6°58 |
| W31  | 16 29 30 | 8♂25'50  | 17♂7  | 14♂17  | 20♂16 | 27♂53 | 6♂15  | 13♂29 | 29♂5   | 19♂44 | 26♂58 | 9♂44   | 8♂30 | 18♂29 | 6♂58 |

Delta T = 12.07 sec.

JUNE 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂     | ♂    | ♂     | ♂     |
|------|----------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|-------|-------|
| T 1  | 16 33 26 | 9♂23'21  | 1♂47  | 15♂9  | 21♂23 | 28♂37 | 6°R 9 | 13♂36 | 29°R 3 | 19♂46 | 26♂59 | 9°R40 | 8♂27 | 18♂36 | 6♂59  |
| F 2  | 16 37 23 | 10°20'52 | 16°3  | 16°6  | 22°30 | 29°20 | 6♂4   | 13°44 | 29♂2   | 19°48 | 27°1  | 9♂37  | 8°23 | 18°43 | 6°59  |
| S 3  | 16 41 19 | 11°18'21 | 29°52 | 17°5  | 23°37 | 0♂4   | 5°59  | 13°51 | 29°1   | 19°49 | 27°2  | 9°36  | 8°20 | 18°49 | 7°0   |
| S 4  | 16 45 16 | 12°15'48 | 13♂15 | 18°8  | 24°44 | 0°48  | 5°54  | 13°58 | 29°0   | 19°51 | 27°4  | 9°D35 | 8°17 | 18°56 | 7°0   |
| M 5  | 16 49 12 | 13°13'14 | 26°13 | 19°14 | 25°50 | 1°31  | 5°49  | 14°5  | 28°58  | 19°53 | 27°5  | 9°36  | 8°14 | 19°3  | 7°1   |
| T 6  | 16 53 9  | 14°10'39 | 8♂51  | 20°24 | 26°56 | 2°15  | 5°44  | 14°12 | 28°57  | 19°55 | 27°6  | 9°37  | 8°11 | 19°9  | 7°1   |
| W 7  | 16 57 6  | 15°8'03  | 21°12 | 21°36 | 28°3  | 2°58  | 5°40  | 14°19 | 28°55  | 19°57 | 27°8  | 9°39  | 8°7  | 19°16 | 7°1   |
| T 8  | 17 1 2   | 16°5'26  | 3♂21  | 22°52 | 29°8  | 3°42  | 5°35  | 14°26 | 28°54  | 19°59 | 27°9  | 9°40  | 8°4  | 19°23 | 7°1   |
| F 9  | 17 4 59  | 17°2'48  | 15°20 | 24°10 | 0♂14  | 4°25  | 5°31  | 14°33 | 28°52  | 20°1  | 27°11 | 9°R40 | 8°1  | 19°29 | 7°2   |
| S 10 | 17 8 55  | 18°0'09  | 27°13 | 25°32 | 1°20  | 5°9   | 5°27  | 14°40 | 28°50  | 20°3  | 27°12 | 9°38  | 7°58 | 19°36 | 7°2   |
| S 11 | 17 12 52 | 18°57'29 | 9♂4   | 26°57 | 2°25  | 5°52  | 5°23  | 14°47 | 28°49  | 20°5  | 27°13 | 9°35  | 7°55 | 19°43 | 7°R 2 |
| M12  | 17 16 48 | 19°54'49 | 20°54 | 28°24 | 3°30  | 6°35  | 5°19  | 14°53 | 28°47  | 20°6  | 27°15 | 9°30  | 7°52 | 19°49 | 7°2   |
| T 13 | 17 20 45 | 20°52'07 | 2♂44  | 29°54 | 4°35  | 7°18  | 5°16  | 15°0  | 28°45  | 20°8  | 27°16 | 9°23  | 7°48 | 19°56 | 7°2   |
| W14  | 17 24 41 | 21°49'25 | 14°38 | 1♂28  | 5°40  | 8°1   | 5°12  | 15°7  | 28°44  | 20°10 | 27°18 | 9°15  | 7°45 | 20°3  | 7°1   |
| T 15 | 17 28 38 | 22°46'43 | 26°37 | 3°4   | 6°44  | 8°44  | 5°9   | 15°14 | 28°42  | 20°12 | 27°19 | 9°8   | 7°42 | 20°10 | 7°1   |
| F 16 | 17 32 35 | 23°44'00 | 8♂43  | 4°43  | 7°49  | 9°27  | 5°6   | 15°20 | 28°40  | 20°15 | 27°21 | 9°0   | 7°39 | 20°16 | 7°1   |
| S 17 | 17 36 31 | 24°41'16 | 20°58 | 6°25  | 8°53  | 10°10 | 5°3   | 15°27 | 28°38  | 20°17 | 27°22 | 8°54  | 7°36 | 20°23 | 7°1   |
| S 18 | 17 40 28 | 25°38'33 | 3♂25  | 8°9   | 9°57  | 10°53 | 5°0   | 15°33 | 28°36  | 20°19 | 27°23 | 8°50  | 7°32 | 20°30 | 7°0   |
| M19  | 17 44 24 | 26°35'48 | 16°8  | 9°57  | 11°0  | 11°36 | 4°57  | 15°40 | 28°35  | 20°21 | 27°25 | 8°47  | 7°29 | 20°36 | 7°0   |
| T 20 | 17 48 21 | 27°33'04 | 29°10 | 11°47 | 12°4  | 12°18 | 4°55  | 15°46 | 28°33  | 20°23 | 27°26 | 8°D47 | 7°26 | 20°43 | 6°59  |
| W21  | 17 52 17 | 28°30'19 | 12♂33 | 13°40 | 13°7  | 13°1  | 4°53  | 15°53 | 28°31  | 20°25 | 27°28 | 8°48  | 7°23 | 20°50 | 6°59  |
| T 22 | 17 56 14 | 29°27'35 | 26°21 | 15°35 | 14°9  | 13°43 | 4°51  | 15°59 | 28°29  | 20°27 | 27°29 | 8°49  | 7°20 | 20°56 | 6°58  |
| F 23 | 18 0 10  | 0♂24'50  | 10♂34 | 17°32 | 15°12 | 14°26 | 4°49  | 16°5  | 28°27  | 20°29 | 27°31 | 8°R49 | 7°17 | 21°3  | 6°58  |
| S 24 | 18 4 7   | 1°22'05  | 25°12 | 19°32 | 16°14 | 15°8  | 4°47  | 16°11 | 28°25  | 20°31 | 27°32 | 8°48  | 7°13 | 21°10 | 6°57  |
| S 25 | 18 8 4   | 2°19'20  | 10♂9  | 21°34 | 17°16 | 15°50 | 4°46  | 16°18 | 28°23  | 20°33 | 27°33 | 8°45  | 7°10 | 21°16 | 6°56  |
| M26  | 18 12 0  | 3°16'35  | 25°20 | 23°38 | 18°18 | 16°33 | 4°44  | 16°24 | 28°21  | 20°35 | 27°35 | 8°39  | 7°7  | 21°23 | 6°55  |
| T 27 | 18 15 57 | 4°13'50  | 10♂35 | 25°44 | 19°19 | 17°15 | 4°43  | 16°30 | 28°18  | 20°38 | 27°36 | 8°32  | 7°4  | 21°30 | 6°54  |
| W28  | 18 19 53 | 5°11'04  | 25°42 | 27°52 | 20°20 | 17°57 | 4°42  | 16°36 | 28°16  | 20°40 | 27°38 | 8°24  | 7°1  | 21°36 | 6°54  |
| T 29 | 18 23 50 | 6°8'18   | 10♂32 | 0♂0   | 21°21 | 18°38 | 4°41  | 16°42 | 28°14  | 20°42 | 27°39 | 8°15  | 6°58 | 21°43 | 6°53  |
| F 30 | 18 27 46 | 7♂5'32   | 24♂58 | 2♂10  | 22♂22 | 19♂20 | 4♂41  | 16♂48 | 28♂12  | 20♂44 | 27♂41 | 8♂8   | 6♂54 | 21♂50 | 6♂52  |

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# SWISS EPHEMERIS for the year 1911

JULY 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♂      | ♂      | ♂     | ♂      | ♂      | ♂      | ♂      | ♂     | ♂     | ♂      | ♂     |
|------|----------|----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|-------|
| S 1  | 18 31 43 | 8°24'5   | 8°55'  | 4°20'  | 23°22' | 20°2'  | 4°R40 | 16°53' | 28°R10 | 20°46' | 27°42' | 8°R 3 | 6°51' | 21°56' | 6°R50 |
| S 2  | 18 35 40 | 8°59'57  | 22°22' | 6°30'  | 24°21' | 20°43' | 4°M40 | 16°59' | 28°3 8 | 20°48' | 27°43' | 7°59' | 6°48' | 22° 3  | 6°49  |
| M 3  | 18 39 36 | 9°57'10  | 5°23'  | 8°41'  | 25°21' | 21°25' | 4°D40 | 17° 5  | 28° 5  | 20°51' | 27°45' | 7°D58 | 6°45' | 22°10' | 6°48  |
| T 4  | 18 43 33 | 10°54'22 | 17°59' | 10°52' | 26°20' | 22° 6  | 4°40' | 17°10' | 28° 3  | 20°53' | 27°46' | 7°58' | 6°42' | 22°17' | 6°47  |
| W 5  | 18 47 29 | 11°51'33 | 0°M17  | 13° 2  | 27°18' | 22°47' | 4°40' | 17°16' | 28° 1  | 20°55' | 27°48' | 7°59' | 6°38' | 22°23' | 6°46  |
| T 6  | 18 51 26 | 12°48'45 | 12°20' | 15°11' | 28°17' | 23°29' | 4°41' | 17°21' | 27°59' | 20°57' | 27°49' | 7°R59 | 6°35' | 22°30' | 6°44  |
| F 7  | 18 55 22 | 13°45'56 | 24°15' | 17°20' | 29°14' | 24°10' | 4°42' | 17°27' | 27°56' | 20°59' | 27°50' | 7°58' | 6°32' | 22°37' | 6°43  |
| S 8  | 18 59 19 | 14°43'08 | 6°5 5  | 19°27' | 0°M12  | 24°50' | 4°42' | 17°32' | 27°54' | 21° 2  | 27°52' | 7°54' | 6°29' | 22°43' | 6°41  |
| S 9  | 19 3 15  | 15°40'19 | 17°54' | 21°33' | 1° 9   | 25°31' | 4°43' | 17°37' | 27°52' | 21° 4  | 27°53' | 7°48' | 6°26' | 22°50' | 6°40  |
| M10  | 19 7 12  | 16°37'30 | 29°44' | 23°38' | 2° 5   | 26°12' | 4°45' | 17°43' | 27°49' | 21° 6  | 27°55' | 7°39' | 6°23' | 22°57' | 6°38  |
| T 11 | 19 11 9  | 17°34'41 | 11°39' | 25°42' | 3° 1   | 26°52' | 4°46' | 17°48' | 27°47' | 21° 8  | 27°56' | 7°29' | 6°19' | 23° 3  | 6°37  |
| W12  | 19 15 5  | 18°31'53 | 23°40' | 27°43' | 3°56'  | 27°33' | 4°47' | 17°53' | 27°45' | 21°11' | 27°57' | 7°16' | 6°16' | 23°10' | 6°35  |
| T 13 | 19 19 2  | 19°29'05 | 5°48'  | 29°43' | 4°51'  | 28°13' | 4°49' | 17°58' | 27°42' | 21°13' | 27°59' | 7° 4  | 6°13' | 23°17' | 6°33  |
| F 14 | 19 22 58 | 20°26'17 | 18° 4  | 1°M42  | 5°46'  | 28°53' | 4°51' | 18° 3  | 27°40' | 21°15' | 28° 0  | 6°52' | 6°10' | 23°23' | 6°32  |
| S 15 | 19 26 55 | 21°23'29 | 0°H29  | 3°38'  | 6°40'  | 29°33' | 4°53' | 18° 7  | 27°37' | 21°17' | 28° 1  | 6°42' | 6° 7  | 23°30' | 6°30  |
| S 16 | 19 30 51 | 22°20'42 | 13° 6  | 5°33'  | 7°33'  | 0°813  | 4°55' | 18°12' | 27°35' | 21°19' | 28° 3  | 6°34' | 6° 4  | 23°37' | 6°28  |
| M17  | 19 34 48 | 23°17'56 | 25°54' | 7°26'  | 8°26'  | 0°53'  | 4°58' | 18°17' | 27°33' | 21°22' | 28° 4  | 6°29' | 6° 0  | 23°43' | 6°26  |
| T 18 | 19 38 44 | 24°15'10 | 8°Y58  | 9°17'  | 9°18'  | 1°33'  | 5° 0  | 18°21' | 27°30' | 21°24' | 28° 5  | 6°26' | 5°57' | 23°50' | 6°24  |
| W19  | 19 42 41 | 25°12'25 | 22°19' | 11° 7  | 10° 9  | 2°12'  | 5° 3  | 18°26' | 27°28' | 21°26' | 28° 7  | 6°D25 | 5°54' | 23°57' | 6°22  |
| T 20 | 19 46 38 | 26° 9'40 | 6°8 0  | 12°54' | 11° 0  | 2°52'  | 5° 6  | 18°30' | 27°25' | 21°28' | 28° 8  | 6°R26 | 5°51' | 24° 4  | 6°20  |
| F 21 | 19 50 34 | 27° 6'57 | 20° 2  | 14°40' | 11°51' | 3°31'  | 5° 9  | 18°35' | 27°23' | 21°31' | 28° 9  | 6°25' | 5°48' | 24°10' | 6°18  |
| S 22 | 19 54 31 | 28° 4'14 | 4°H25  | 16°24' | 12°40' | 4°10'  | 5°12' | 18°39' | 27°21' | 21°33' | 28°11' | 6°23' | 5°44' | 24°17' | 6°16  |
| S 23 | 19 58 27 | 29° 1'33 | 19° 7  | 18° 6  | 13°29' | 4°49'  | 5°16' | 18°43' | 27°18' | 21°35' | 28°12' | 6°19' | 5°41' | 24°24' | 6°14  |
| M24  | 20 2 24  | 29°58'52 | 4°4 4  | 19°46' | 14°17' | 5°27'  | 5°19' | 18°47' | 27°16' | 21°37' | 28°13' | 6°11' | 5°38' | 24°30' | 6°12  |
| T 25 | 20 6 20  | 0°M56'11 | 19° 7  | 21°25' | 15° 4  | 6° 6   | 5°23' | 18°51' | 27°13' | 21°39' | 28°14' | 6° 2  | 5°35' | 24°37' | 6°10  |
| W26  | 20 10 17 | 1°53'32  | 4°M 6  | 23° 1  | 15°51' | 6°44'  | 5°27' | 18°55' | 27°11' | 21°42' | 28°16' | 5°51' | 5°32' | 24°44' | 6° 7  |
| T 27 | 20 14 13 | 2°50'53  | 18°53' | 24°36' | 16°37' | 7°22'  | 5°31' | 18°59' | 27° 9  | 21°44' | 28°17' | 5°40' | 5°29' | 24°50' | 6° 5  |
| F 28 | 20 18 10 | 3°48'15  | 3°M19  | 26° 9  | 17°21' | 8° 1   | 5°36' | 19° 3  | 27° 6  | 21°46' | 28°18' | 5°30' | 5°25' | 24°57' | 6° 3  |
| S 29 | 20 22 7  | 4°45'37  | 17°18  | 27°40' | 18° 5  | 8°38'  | 5°40' | 19° 7  | 27° 4  | 21°48' | 28°19' | 5°22' | 5°22' | 25° 4  | 6° 0  |
| S30  | 20 26 3  | 5°43'00  | 0°M49  | 29°10' | 18°48' | 9°16'  | 5°45' | 19°10' | 27° 1  | 21°50' | 28°20' | 5°17' | 5°19' | 25°10' | 5°58  |
| M31  | 20 30 0  | 6°M40'23 | 13°M52 | 0°M37  | 19°M30 | 9°M53  | 5°M49 | 19°M14 | 26°M59 | 21°M53 | 28°M22 | 5°M14 | 5°M16 | 25°M17 | 5°M56 |

Delta T = 12.38 sec.

AUGUST 1911

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♂      | ♂      | ♂     | ♂      | ♂      | ♂      | ♂      | ♂     | ♂     | ♂      | ♂     |
|------|----------|----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|-------|-------|--------|-------|
| T 1  | 20 33 56 | 7°M37'47 | 26°M31 | 2°M 3  | 20°M11 | 10°M31 | 5°M54 | 19°M17 | 26°R57 | 21°M55 | 28°M23 | 5°R13 | 5°M13 | 25°M24 | 5°R53 |
| W 2  | 20 37 53 | 8°35'11  | 8°M50  | 3°27'  | 20°51' | 11° 8  | 5°59' | 19°20' | 26°M54 | 21°57' | 28°24' | 5°M13 | 5°10' | 25°30' | 5°M51 |
| T 3  | 20 41 49 | 9°32'37  | 20°53' | 4°49'  | 21°30' | 11°45' | 6° 4  | 19°24' | 26°52' | 21°59' | 28°25' | 5°12' | 5° 6  | 25°37' | 5°48  |
| F 4  | 20 45 46 | 10°30'02 | 2°M48  | 6° 9   | 22° 8  | 12°21' | 6°10' | 19°27' | 26°50' | 22° 1  | 28°26' | 5°11' | 5° 3  | 25°44' | 5°46  |
| S 5  | 20 49 42 | 11°27'29 | 14°38' | 7°27'  | 22°45' | 12°58' | 6°15' | 19°30' | 26°47' | 22° 3  | 28°27' | 5° 7  | 5° 0  | 25°51' | 5°43  |
| S 6  | 20 53 39 | 12°24'56 | 26°28' | 8°42'  | 23°20' | 13°34' | 6°21' | 19°33' | 26°45' | 22° 5  | 28°28' | 5° 1  | 4°57' | 25°57' | 5°41  |
| M 7  | 20 57 36 | 13°22'25 | 8°M21  | 9°56'  | 23°54' | 14°10' | 6°27' | 19°35' | 26°43' | 22° 8  | 28°29' | 4°52' | 4°54' | 26° 4  | 5°38  |
| T 8  | 21 1 32  | 14°19'54 | 20°22' | 11° 8  | 24°27' | 14°46' | 6°33' | 19°38' | 26°41' | 22°10' | 28°30' | 4°41' | 4°50' | 26°11' | 5°35  |
| W 9  | 21 5 29  | 15°17'24 | 2°M32  | 12°17' | 24°58' | 15°22' | 6°39' | 19°41' | 26°38' | 22°12' | 28°32' | 4°28' | 4°47' | 26°17' | 5°33  |
| T 10 | 21 9 25  | 16°14'55 | 14°52' | 13°24' | 25°28' | 15°57' | 6°45' | 19°43' | 26°36' | 22°14' | 28°33' | 4°15' | 4°44' | 26°24' | 5°30  |
| F 11 | 21 13 22 | 17°12'27 | 27°22' | 14°29' | 25°57' | 16°33' | 6°51' | 19°46' | 26°34' | 22°16' | 28°34' | 4° 3  | 4°41' | 26°31' | 5°27  |
| S 12 | 21 17 18 | 18°10'00 | 10°H 3 | 15°31' | 26°24' | 17° 8  | 6°58' | 19°48' | 26°32' | 22°18' | 28°35' | 3°52' | 4°38' | 26°37' | 5°25  |
| S 13 | 21 21 15 | 19° 7'35 | 22°56' | 16°30' | 26°49' | 17°42' | 7° 5  | 19°50' | 26°30' | 22°20' | 28°36' | 3°44' | 4°35' | 26°44' | 5°22  |
| M14  | 21 25 11 | 20° 5'10 | 5°Y59  | 17°27' | 27°13' | 18°17' | 7°11' | 19°53' | 26°27' | 22°22' | 28°37' | 3°39' | 4°31' | 26°51' | 5°19  |
| T 15 | 21 29 8  | 21° 2'48 | 19°15  | 18°21' | 27°35' | 18°51' | 7°18' | 19°55' | 26°25' | 22°24' | 28°38' | 3°36' | 4°28' | 26°58' | 5°16  |
| W16  | 21 33 5  | 22° 0'26 | 2°M43  | 19°11' | 27°55' | 19°25' | 7°25' | 19°57' | 26°23' | 22°26' | 28°38' | 3°D35 | 4°25' | 27° 4  | 5°13  |
| T 17 | 21 37 1  | 22°58'07 | 16°25' | 19°59' | 28°13' | 19°59' | 7°33' | 19°58' | 26°21' | 22°28' | 28°39' | 3°R35 | 4°22' | 27°11' | 5°11  |
| F 18 | 21 40 58 | 23°55'49 | 0°H21  | 20°43' | 28°30' | 20°32' | 7°40' | 20° 0  | 26°19' | 22°30' | 28°40' | 3°35' | 4°19' | 27°18' | 5° 8  |
| S 19 | 21 44 54 | 24°53'33 | 14°33' | 21°23' | 28°44' | 21° 6  | 7°47' | 20° 2  | 26°17' | 22°32' | 28°41' | 3°34' | 4°16' | 27°24' | 5° 5  |
| S 20 | 21 48 51 | 25°51'18 | 28°58' | 22° 0  | 28°57' | 21°39' | 7°55' | 20° 3  | 26°15' | 22°34' | 28°42' | 3°30' | 4°12' | 27°31' | 5° 2  |
| M21  | 21 52 47 | 26°49'05 | 13°M33 | 22°32' | 29° 8  | 22°11' | 8° 3  | 20° 5  | 26°13' | 22°36' | 28°43' | 3°24' | 4° 9  | 27°38' | 4°59  |
| T 22 | 21 56 44 | 27°46'54 | 28°14  | 23° 1  | 29°16' | 22°44' | 8°10' | 20° 6  | 26°11' | 22°38' | 28°44' | 3°16' | 4° 6  | 27°44' | 4°56  |
| W23  | 22 0 40  | 28°44'44 | 12°M52 | 23°25' | 29°23' | 23°16' | 8°18' | 20° 7  | 26° 9  | 22°40' | 28°45' | 3° 6  | 4° 3  | 27°51' | 4°53  |
| T 24 | 22 4 37  | 29°42'36 | 27°21  | 23°44' | 29°27' | 23°47' | 8°27' | 20° 8  | 26° 7  | 22°41' | 28°45' | 2°56' | 4° 0  | 27°58' | 4°51  |
| F 25 | 22 8 34  | 0°M40'29 | 11°M34 | 23°58' | 29°R29 | 24°19' | 8°35' | 20° 9  | 26° 6  | 22°43' | 28°46' | 2°48' | 3°56' | 28° 4  | 4°48  |
| S 26 | 22 12 30 | 1°38'24  | 25°25  | 24° 7  | 29°28' | 24°50' | 8°43' | 20°10' | 26° 4  | 22°45' | 28°47' | 2°40' | 3°53' | 28°11' | 4°45  |
| S 27 | 22 16 27 | 2°36'20  | 8°M52  | 24°R10 | 29°25  | 25°21' | 8°51' | 20°11' | 26° 2  | 22°47' | 28°48' | 2°36' | 3°50' | 28°18' | 4°42  |
| M28  | 22 20 23 | 3°34'17  | 21°54  | 24° 8  | 29°20' | 25°51' | 9° 0  | 20°12' | 26° 0  | 22°49' | 28°48' | 2°33' | 3°47' | 28°25' | 4°39  |
| T 29 | 22 24 20 | 4°32'16  | 4°M34  | 24° 0  | 29°13' | 26°21' | 9° 9  | 20°12' | 25°58' | 22°51' | 28°49' | 2°D33 | 3°44' | 28°31' | 4°36  |
| W30  | 22 28 16 | 5°30'16  | 16°54  | 23°45' | 29° 3  | 26°51' | 9°18' | 20°13' | 25°57' | 22°52' | 28°50' | 2°33' | 3°41' | 28°38' | 4°33  |
| T 31 | 22 32 13 | 6°M28'17 | 29°M 0 | 23°M25 | 28°M51 | 27°M21 | 9°M26 | 20°M13 | 25°M55 | 22°M54 | 28°M50 | 2°M34 | 3°M37 | 28°M45 | 4°M30 |

Delta T = 12.54 sec.

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# SWISS EPHEMERIS for the year 1911

## SEPTEMBER 1911

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                   | ♀                   | ♂                   | ♂                   | ♂                   | ♂                   | ♂      | ♂                   | ♂                   | ♂                  | ♂                  | ♂                   | ♂                  |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|
| F 1  | 22 36 9  | 7 <sup>h</sup> 26'20" | 10 <sup>h</sup> 56' | 22°R58              | 28°R36              | 27 <sup>h</sup> 50' | 9 <sup>h</sup> 35'  | 20 <sup>h</sup> 13' | 25°R54 | 22 <sup>h</sup> 56' | 28 <sup>h</sup> 51' | 2°R34              | 3 <sup>h</sup> 34' | 28 <sup>h</sup> 51' | 4°R27              |
| S 2  | 22 40 6  | 8°24'24"              | 22°47'              | 22 <sup>h</sup> 26' | 28 <sup>h</sup> 19' | 28°19'              | 9°45'               | 20°14'              | 25°52' | 22°57'              | 28°52'              | 2 <sup>h</sup> 33' | 3°31'              | 28°58'              | 4 <sup>h</sup> 24' |
| S 3  | 22 44 3  | 9°22'30"              | 4 <sup>h</sup> 39'  | 21°47'              | 28° 0'              | 28°47'              | 9°54'               | 20°R14              | 25°50' | 22°59'              | 28°52'              | 2°30'              | 3°28'              | 29° 5'              | 4°22'              |
| M 4  | 22 47 59 | 10°20'37"             | 16°35'              | 21° 3'              | 27°38'              | 29°15'              | 10° 3'              | 20°14'              | 25°49' | 23° 1'              | 28°53'              | 2°24'              | 3°25'              | 29°11'              | 4°19'              |
| T 5  | 22 51 56 | 11°18'46"             | 28°41'              | 20°15'              | 27°15'              | 29°43'              | 10°13'              | 20°13'              | 25°47' | 23° 2'              | 28°53'              | 2°17'              | 3°22'              | 29°18'              | 4°16'              |
| W 6  | 22 55 52 | 12°16'56"             | 10 <sup>h</sup> 59' | 19°21'              | 26°49'              | 0 <sup>h</sup> 11'  | 10°22'              | 20°13'              | 25°46' | 23° 4'              | 28°54'              | 2° 9'              | 3°18'              | 29°25'              | 4°13'              |
| T 7  | 22 59 49 | 13°15'08"             | 23°30'              | 18°25'              | 26°21'              | 0°37'               | 10°32'              | 20°13'              | 25°45' | 23° 6'              | 28°54'              | 2° 0'              | 3°15'              | 29°32'              | 4°10'              |
| F 8  | 23 3 45  | 14°13'21"             | 6 <sup>h</sup> 16'  | 17°26'              | 25°52'              | 1° 3'               | 10°42'              | 20°12'              | 25°43' | 23° 7'              | 28°55'              | 1°51'              | 3°12'              | 29°38'              | 4° 7'              |
| S 9  | 23 7 42  | 15°11'36"             | 19°16'              | 16°26'              | 25°20'              | 1°29'               | 10°51'              | 20°12'              | 25°42' | 23° 9'              | 28°55'              | 1°44'              | 3° 9'              | 29°45'              | 4° 4'              |
| S 10 | 23 11 38 | 16° 9'53"             | 2 <sup>h</sup> 29'  | 15°26'              | 24°48'              | 1°55'               | 11° 1'              | 20°11'              | 25°41' | 23°10'              | 28°56'              | 1°39'              | 3° 6'              | 29°52'              | 4° 2'              |
| M 11 | 23 15 35 | 17° 8'12"             | 15°55'              | 14°28'              | 24°14'              | 2°20'               | 11°11'              | 20°10'              | 25°40' | 23°12'              | 28°56'              | 1°35'              | 3° 2'              | 29°58'              | 3°59'              |
| T 12 | 23 19 32 | 18° 6'32"             | 29°32'              | 13°33'              | 23°39'              | 2°44'               | 11°21'              | 20° 9'              | 25°38' | 23°13'              | 28°57'              | 1°D34              | 2°59'              | 0 <sup>h</sup> 5'   | 3°56'              |
| W 13 | 23 23 28 | 19° 4'55"             | 13 <sup>h</sup> 18' | 12°42'              | 23° 3'              | 3° 9'               | 11°32'              | 20° 8'              | 25°37' | 23°14'              | 28°57'              | 1°35'              | 2°56'              | 0°12'               | 3°53'              |
| T 14 | 23 27 25 | 20° 3'20"             | 27°13'              | 11°56'              | 22°26'              | 3°33'               | 11°42'              | 20° 7'              | 25°36' | 23°16'              | 28°58'              | 1°36'              | 2°53'              | 0°18'               | 3°50'              |
| F 15 | 23 31 21 | 21° 1'47"             | 11 <sup>h</sup> 15' | 11°17'              | 21°49'              | 3°56'               | 11°52'              | 20° 6'              | 25°35' | 23°17'              | 28°58'              | 1°37'              | 2°50'              | 0°25'               | 3°48'              |
| S 16 | 23 35 18 | 22° 0'17"             | 25°23'              | 10°46'              | 21°12'              | 4°19'               | 12° 3'              | 20° 4'              | 25°34' | 23°19'              | 28°58'              | 1°R38              | 2°47'              | 0°32'               | 3°45'              |
| S 17 | 23 39 14 | 22°58'48"             | 9 <sup>h</sup> 37'  | 10°23'              | 20°35'              | 4°41'               | 12°13'              | 20° 3'              | 25°33' | 23°20'              | 28°59'              | 1°36'              | 2°43'              | 0°39'               | 3°42'              |
| M 18 | 23 43 11 | 23°57'22"             | 23°53'              | 10°10'              | 19°59'              | 5° 3'               | 12°24'              | 20° 1'              | 25°32' | 23°21'              | 28°59'              | 1°34'              | 2°40'              | 0°45'               | 3°40'              |
| T 19 | 23 47 7  | 24°55'58"             | 8 <sup>h</sup> 8'   | 10°D 5'             | 19°23'              | 5°24'               | 12°35'              | 20° 0'              | 25°31' | 23°23'              | 28°59'              | 1°29'              | 2°37'              | 0°52'               | 3°37'              |
| W 20 | 23 51 4  | 25°54'37"             | 22°19'              | 10°11'              | 18°47'              | 5°45'               | 12°46'              | 19°58'              | 25°31' | 23°24'              | 28°59'              | 1°24'              | 2°34'              | 0°59'               | 3°34'              |
| T 21 | 23 55 1  | 26°53'17"             | 6 <sup>h</sup> 22'  | 10°26'              | 18°13'              | 6° 5'               | 12°57'              | 19°56'              | 25°30' | 23°25'              | 29° 0'              | 1°18'              | 2°31'              | 1° 5'               | 3°32'              |
| F 22 | 23 58 57 | 27°51'59"             | 20°11'              | 10°51'              | 17°40'              | 6°25'               | 13° 8'              | 19°54'              | 25°29' | 23°26'              | 29° 0'              | 1°13'              | 2°28'              | 1°12'               | 3°29'              |
| S 23 | 0 2 54   | 28°50'43"             | 3 <sup>h</sup> 43'  | 11°25'              | 17° 8'              | 6°44'               | 13°19'              | 19°52'              | 25°28' | 23°27'              | 29° 0'              | 1° 9'              | 2°24'              | 1°19'               | 3°27'              |
| S 24 | 0 6 50   | 29°49'29"             | 16°57'              | 12° 8'              | 16°38'              | 7° 2'               | 13°30'              | 19°50'              | 25°28' | 23°28'              | 29° 0'              | 1° 7'              | 2°21'              | 1°25'               | 3°24'              |
| M 25 | 0 10 47  | 0 <sup>h</sup> 48'17" | 29°51'              | 12°59'              | 16°10'              | 7°20'               | 13°41'              | 19°48'              | 25°27' | 23°30'              | 29° 0'              | 1°D 6'             | 2°18'              | 1°32'               | 3°22'              |
| T 26 | 0 14 43  | 1°47'07"              | 12 <sup>h</sup> 27' | 13°58'              | 15°44'              | 7°37'               | 13°52'              | 19°45'              | 25°27' | 23°31'              | 29° 0'              | 1° 7'              | 2°15'              | 1°39'               | 3°19'              |
| W 27 | 0 18 40  | 2°45'59"              | 24°46'              | 15° 4'              | 15°20'              | 7°54'               | 14° 4'              | 19°43'              | 25°26' | 23°32'              | 29° 0'              | 1° 8'              | 2°12'              | 1°46'               | 3°17'              |
| T 28 | 0 22 36  | 3°44'53"              | 6 <sup>h</sup> 51'  | 16°17'              | 14°57'              | 8°10'               | 14°15'              | 19°40'              | 25°26' | 23°33'              | 29° 0'              | 1°10'              | 2° 8'              | 1°52'               | 3°14'              |
| F 29 | 0 26 33  | 4°43'48"              | 18°48'              | 17°35'              | 14°37'              | 8°25'               | 14°27'              | 19°38'              | 25°25' | 23°34'              | 29° 0'              | 1°11'              | 2° 5'              | 1°59'               | 3°12'              |
| S 30 | 0 30 30  | 5°42'46"              | 0 <sup>h</sup> 40'  | 18 <sup>h</sup> 58' | 14 <sup>h</sup> 20' | 8 <sup>h</sup> 40'  | 14 <sup>h</sup> 38' | 19 <sup>h</sup> 35' | 25°25' | 23°35'              | 29°R 0'             | 1°R12              | 2 <sup>h</sup> 2'  | 2 <sup>h</sup> 6'   | 3 <sup>h</sup> 10' |

Delta T = 12.70 sec.

## OCTOBER 1911

00:00 UT

| Day  | Sid.t   | ☉                     | ☽                   | ♀                   | ♂                   | ♂                  | ♂                   | ♂                   | ♂      | ♂      | ♂                   | ♂                  | ♂                  | ♂                  | ♂                  |
|------|---------|-----------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------|--------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S 1  | 0 34 26 | 6 <sup>h</sup> 41'45" | 12 <sup>h</sup> 33' | 20 <sup>h</sup> 26' | 14°R 4'             | 8 <sup>h</sup> 54' | 14 <sup>h</sup> 50' | 19°R32              | 25°R25 | 23°36' | 29°R 0'             | 1°R12              | 1 <sup>h</sup> 59' | 2 <sup>h</sup> 12' | 3°R 7'             |
| M 2  | 0 38 23 | 7°40'45"              | 24°30'              | 21°58'              | 13 <sup>h</sup> 51' | 9° 7'              | 15° 2'              | 19 <sup>h</sup> 29' | 25°25' | 23°36' | 29 <sup>h</sup> 11' | 1 <sup>h</sup> 11' | 1°56'              | 2°19'              | 3 <sup>h</sup> 5'  |
| T 3  | 0 42 19 | 8°39'48"              | 6 <sup>h</sup> 37'  | 23°32'              | 13°41'              | 9°20'              | 15°13'              | 19°26'              | 25°24' | 23°37' | 29° 0'              | 1° 9'              | 1°53'              | 2°26'              | 3° 3'              |
| W 4  | 0 46 16 | 9°38'52"              | 18°58'              | 25°10'              | 13°33'              | 9°32'              | 15°25'              | 19°23'              | 25°24' | 23°38' | 29° 0'              | 1° 6'              | 1°49'              | 2°32'              | 3° 1'              |
| T 5  | 0 50 12 | 10°37'58"             | 1 <sup>h</sup> 36'  | 26°50'              | 13°27'              | 9°43'              | 15°37'              | 19°20'              | 25°24' | 23°39' | 29° 0'              | 1° 3'              | 1°46'              | 2°39'              | 2°59'              |
| F 6  | 0 54 9  | 11°37'06"             | 14°32'              | 28°31'              | 13°24'              | 9°53'              | 15°49'              | 19°17'              | 25°D24 | 23°40' | 29° 0'              | 1° 0'              | 1°43'              | 2°46'              | 2°56'              |
| S 7  | 0 58 5  | 12°36'16"             | 27°48'              | 0 <sup>h</sup> 14'  | 13°D23              | 10° 3'             | 16° 1'              | 19°13'              | 25°24' | 23°40' | 29° 0'              | 0°57'              | 1°40'              | 2°53'              | 2°54'              |
| S 8  | 1 2 2   | 13°35'28"             | 11 <sup>h</sup> 22' | 1°57'               | 13°24'              | 10°12'             | 16°13'              | 19°10'              | 25°24' | 23°41' | 29° 0'              | 0°56'              | 1°37'              | 2°59'              | 2°52'              |
| M 9  | 1 5 58  | 14°34'42"             | 25°13'              | 3°42'               | 13°28'              | 10°20'             | 16°25'              | 19° 6'              | 25°24' | 23°42' | 29° 0'              | 0°D55              | 1°33'              | 3° 6'              | 2°50'              |
| T 10 | 1 9 55  | 15°33'58"             | 9 <sup>h</sup> 17'  | 5°27'               | 13°35'              | 10°28'             | 16°38'              | 19° 3'              | 25°25' | 23°42' | 28°59'              | 0°55'              | 1°30'              | 3°13'              | 2°49'              |
| W 11 | 1 13 52 | 16°33'16"             | 23°30'              | 7°12'               | 13°43'              | 10°34'             | 16°50'              | 18°59'              | 25°25' | 23°43' | 28°59'              | 0°56'              | 1°27'              | 3°19'              | 2°47'              |
| T 12 | 1 17 48 | 17°32'37"             | 7 <sup>h</sup> 48'  | 8°57'               | 13°54'              | 10°40'             | 17° 2'              | 18°56'              | 25°25' | 23°43' | 28°59'              | 0°57'              | 1°24'              | 3°26'              | 2°45'              |
| F 13 | 1 21 45 | 18°32'00"             | 22° 8'              | 10°42'              | 14° 7'              | 10°45'             | 17°15'              | 18°52'              | 25°25' | 23°44' | 28°59'              | 0°58'              | 1°21'              | 3°33'              | 2°43'              |
| S 14 | 1 25 41 | 19°31'25"             | 6 <sup>h</sup> 26'  | 12°27'              | 14°22'              | 10°49'             | 17°27'              | 18°48'              | 25°26' | 23°45' | 28°58'              | 0°58'              | 1°18'              | 3°40'              | 2°41'              |
| S 15 | 1 29 38 | 20°30'52"             | 20°39'              | 14°12'              | 14°39'              | 10°53'             | 17°39'              | 18°44'              | 25°26' | 23°45' | 28°58'              | 0°R59              | 1°14'              | 3°46'              | 2°40'              |
| M 16 | 1 33 34 | 21°30'22"             | 4 <sup>h</sup> 24'  | 15°56'              | 14°58'              | 10°55'             | 17°52'              | 18°40'              | 25°27' | 23°45' | 28°58'              | 0°58'              | 1°11'              | 3°53'              | 2°38'              |
| T 17 | 1 37 31 | 22°29'55"             | 18°41'              | 17°40'              | 15°18'              | 10°57'             | 18° 4'              | 18°36'              | 25°27' | 23°46' | 28°57'              | 0°58'              | 1° 8'              | 4° 0'              | 2°36'              |
| W 18 | 1 41 27 | 23°29'29"             | 2 <sup>h</sup> 28'  | 19°24'              | 15°41'              | 10°R58             | 18°17'              | 18°32'              | 25°28' | 23°46' | 28°57'              | 0°57'              | 1° 5'              | 4° 6'              | 2°35'              |
| T 19 | 1 45 24 | 24°29'06"             | 16° 2'              | 21° 7'              | 16° 6'              | 10°58'             | 18°30'              | 18°28'              | 25°28' | 23°46' | 28°56'              | 0°56'              | 1° 2'              | 4°13'              | 2°33'              |
| F 20 | 1 49 21 | 25°28'44"             | 29°24'              | 22°49'              | 16°32'              | 10°57'             | 18°42'              | 18°23'              | 25°29' | 23°47' | 28°56'              | 0°55'              | 0°59'              | 4°20'              | 2°32'              |
| S 21 | 1 53 17 | 26°28'25"             | 12 <sup>h</sup> 32' | 24°31'              | 17° 0'              | 10°55'             | 18°55'              | 18°19'              | 25°30' | 23°47' | 28°56'              | 0°55'              | 0°55'              | 4°26'              | 2°31'              |
| S 22 | 1 57 14 | 27°28'09"             | 25°26'              | 26°12'              | 17°30'              | 10°52'             | 19° 8'              | 18°15'              | 25°31' | 23°47' | 28°55'              | 0°D55              | 0°52'              | 4°33'              | 2°29'              |
| M 23 | 2 1 10  | 28°27'54"             | 8 <sup>h</sup> 16'  | 27°53'              | 18° 1'              | 10°48'             | 19°21'              | 18°10'              | 25°32' | 23°47' | 28°55'              | 0°55'              | 0°49'              | 4°40'              | 2°28'              |
| T 24 | 2 5 7   | 29°27'41"             | 20°31'              | 29°33'              | 18°33'              | 10°44'             | 19°33'              | 18° 6'              | 25°32' | 23°48' | 28°54'              | 0°55'              | 0°46'              | 4°47'              | 2°27'              |
| W 25 | 2 9 3   | 0 <sup>h</sup> 12'30" | 2 <sup>h</sup> 45'  | 1 <sup>h</sup> 12'  | 19° 7'              | 10°38'             | 19°46'              | 18° 1'              | 25°33' | 23°48' | 28°54'              | 0°R55              | 0°43'              | 4°53'              | 2°26'              |
| T 26 | 2 13 0  | 1°27'21"              | 14°48'              | 2°51'               | 19°43'              | 10°32'             | 19°59'              | 17°57'              | 25°34' | 23°48' | 28°53'              | 0°55'              | 0°39'              | 5° 0'              | 2°25'              |
| F 27 | 2 16 56 | 2°27'13"              | 26°44'              | 4°30'               | 20°19'              | 10°24'             | 20°12'              | 17°52'              | 25°35' | 23°48' | 28°53'              | 0°55'              | 0°36'              | 5° 7'              | 2°24'              |
| S 28 | 2 20 53 | 3°27'08"              | 8 <sup>h</sup> 35'  | 6° 7'               | 20°57'              | 10°16'             | 20°25'              | 17°48'              | 25°36' | 23°R48 | 28°52'              | 0°55'              | 0°33'              | 5°13'              | 2°23'              |
| S 29 | 2 24 50 | 4°27'04"              | 20°27'              | 7°45'               | 21°37'              | 10° 7'             | 20°38'              | 17°43'              | 25°38' | 23°48' | 28°51'              | 0°54'              | 0°30'              | 5°20'              | 2°22'              |
| M 30 | 2 28 46 | 5°27'02"              | 2 <sup>h</sup> 23'  | 9°22'               | 22°17'              | 9°57'              | 20°51'              | 17°38'              | 25°39' | 23°48' | 28°51'              | 0°D54              | 0°27'              | 5°27'              | 2°21'              |
| T 31 | 2 32 43 | 6 <sup>h</sup> 12'01" | 14 <sup>h</sup> 28' | 10 <sup>h</sup> 58' | 22 <sup>h</sup> 59' | 9 <sup>h</sup> 46' | 21 <sup>h</sup> 14' | 17 <sup>h</sup> 34' | 25°40' | 23°48' | 28 <sup>h</sup> 50' | 0 <sup>h</sup> 54' | 0 <sup>h</sup> 24' | 5 <sup>h</sup> 34' | 2 <sup>h</sup> 20' |

Delta T = 12.86 sec.

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# SWISS EPHEMERIS for the year 1911

NOVEMBER 1911

00:00 UT

| Day  | Sid.t   | ☉                                                 | ☽                                               | ♀                                               | ♂                                               | ♂                                              | ♂                                               | ♂                                               | ♂                                               | ♂                                               | ♂                                               | ♂                                              | ♂                                               | ♂                                              | ♂                                              |
|------|---------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------|
| W 1  | 2 36 39 | 7 <sup>h</sup> 12 <sup>m</sup> 27 <sup>s</sup> 02 | 26 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 12 <sup>h</sup> 34 <sup>m</sup> 41 <sup>s</sup> | 23 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 9 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 21 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 17 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 25 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 23 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 28 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 0 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 0 <sup>h</sup> 20 <sup>m</sup> 20 <sup>s</sup>  | 5 <sup>h</sup> 40 <sup>m</sup> 40 <sup>s</sup> | 2 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> |
| T 2  | 2 40 36 | 8 <sup>h</sup> 27 <sup>m</sup> 05 <sup>s</sup>    | 9 <sup>h</sup> 23 <sup>m</sup> 23 <sup>s</sup>  | 14 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 24 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 9 <sup>h</sup> 22 <sup>m</sup> 22 <sup>s</sup> | 21 <sup>h</sup> 30 <sup>m</sup> 30 <sup>s</sup> | 17 <sup>h</sup> 24 <sup>m</sup> 24 <sup>s</sup> | 25 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 23 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 28 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 0 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 0 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup>  | 5 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 2 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup> |
| F 3  | 2 44 32 | 9 <sup>h</sup> 27 <sup>m</sup> 09 <sup>s</sup>    | 10 <sup>h</sup> 27 <sup>m</sup> 09 <sup>s</sup> | 15 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup> | 25 <sup>h</sup> 10 <sup>m</sup> 10 <sup>s</sup> | 9 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 21 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 17 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> | 25 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup> | 23 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 28 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 0 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 0 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup>  | 5 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 2 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup> |
| S 4  | 2 48 29 | 10 <sup>h</sup> 27 <sup>m</sup> 14 <sup>s</sup>   | 5 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup>  | 17 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> | 25 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 8 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 21 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 17 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> | 25 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 23 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 28 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 0 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 0 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup>  | 6 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>   | 2 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> |
| S 5  | 2 52 25 | 11 <sup>h</sup> 27 <sup>m</sup> 22 <sup>s</sup>   | 19 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 18 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 26 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 8 <sup>h</sup> 40 <sup>m</sup> 40 <sup>s</sup> | 22 <sup>h</sup> 10 <sup>m</sup> 10 <sup>s</sup> | 17 <sup>h</sup> 10 <sup>m</sup> 10 <sup>s</sup> | 25 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 23 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 28 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup> | 0 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 0 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>    | 6 <sup>h</sup> 7 <sup>m</sup> 7 <sup>s</sup>   | 2 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> |
| M 6  | 2 56 22 | 12 <sup>h</sup> 27 <sup>m</sup> 31 <sup>s</sup>   | 3 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup>  | 20 <sup>h</sup> 26 <sup>m</sup> 26 <sup>s</sup> | 27 <sup>h</sup> 30 <sup>m</sup> 30 <sup>s</sup> | 8 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 22 <sup>h</sup> 23 <sup>m</sup> 23 <sup>s</sup> | 17 <sup>h</sup> 5 <sup>m</sup> 5 <sup>s</sup>   | 25 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 23 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 28 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup> | 0 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 0 <sup>h</sup> 5 <sup>m</sup> 5 <sup>s</sup>    | 6 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> |
| T 7  | 3 0 19  | 13 <sup>h</sup> 27 <sup>m</sup> 42 <sup>s</sup>   | 18 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>   | 22 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>   | 28 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup> | 8 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>   | 22 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 17 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>   | 25 <sup>h</sup> 50 <sup>m</sup> 50 <sup>s</sup> | 23 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup> | 28 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 0 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 0 <sup>h</sup> 1 <sup>m</sup> 1 <sup>s</sup>    | 6 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> |
| W 8  | 3 4 15  | 14 <sup>h</sup> 27 <sup>m</sup> 55 <sup>s</sup>   | 2 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup>  | 23 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 29 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>   | 7 <sup>h</sup> 51 <sup>m</sup> 51 <sup>s</sup> | 22 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 16 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 25 <sup>h</sup> 52 <sup>m</sup> 52 <sup>s</sup> | 23 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup> | 28 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup> | 0 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 29 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 6 <sup>h</sup> 27 <sup>m</sup> 27 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| T 9  | 3 8 12  | 15 <sup>h</sup> 28 <sup>m</sup> 10 <sup>s</sup>   | 17 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 25 <sup>h</sup> 5 <sup>m</sup> 5 <sup>s</sup>   | 29 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 7 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 23 <sup>h</sup> 3 <sup>m</sup> 3 <sup>s</sup>   | 16 <sup>h</sup> 50 <sup>m</sup> 50 <sup>s</sup> | 25 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 23 <sup>h</sup> 46 <sup>m</sup> 46 <sup>s</sup> | 28 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 0 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 29 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 6 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| F 10 | 3 12 8  | 16 <sup>h</sup> 28 <sup>m</sup> 26 <sup>s</sup>   | 2 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup>  | 26 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup> | 0 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup>  | 7 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 23 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 16 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 25 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 23 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 28 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 0 <sup>h</sup> 52 <sup>m</sup> 52 <sup>s</sup> | 29 <sup>h</sup> 52 <sup>m</sup> 52 <sup>s</sup> | 6 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| S 11 | 3 16 5  | 17 <sup>h</sup> 28 <sup>m</sup> 45 <sup>s</sup>   | 16 <sup>h</sup> 59 <sup>m</sup> 59 <sup>s</sup> | 28 <sup>h</sup> 10 <sup>m</sup> 10 <sup>s</sup> | 1 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup>  | 6 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 23 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 16 <sup>h</sup> 40 <sup>m</sup> 40 <sup>s</sup> | 25 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 23 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 28 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 0 <sup>h</sup> 51 <sup>m</sup> 51 <sup>s</sup> | 29 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 6 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| S 12 | 3 20 1  | 18 <sup>h</sup> 29 <sup>m</sup> 06 <sup>s</sup>   | 1 <sup>h</sup> 24 <sup>m</sup> 24 <sup>s</sup>  | 29 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 2 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup>  | 6 <sup>h</sup> 37 <sup>m</sup> 37 <sup>s</sup> | 23 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 16 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 25 <sup>h</sup> 59 <sup>m</sup> 59 <sup>s</sup> | 23 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup> | 28 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 0 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 29 <sup>h</sup> 45 <sup>m</sup> 45 <sup>s</sup> | 6 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 2 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> |
| M 13 | 3 23 58 | 19 <sup>h</sup> 29 <sup>m</sup> 28 <sup>s</sup>   | 15 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 1 <sup>h</sup> 12 <sup>m</sup> 12 <sup>s</sup>  | 3 <sup>h</sup> 27 <sup>m</sup> 27 <sup>s</sup>  | 6 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 23 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 16 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 26 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>   | 23 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup> | 28 <sup>h</sup> 40 <sup>m</sup> 40 <sup>s</sup> | 0 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 29 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 7 <sup>h</sup> 1 <sup>m</sup> 1 <sup>s</sup>   | 2 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> |
| T 14 | 3 27 54 | 20 <sup>h</sup> 29 <sup>m</sup> 53 <sup>s</sup>   | 29 <sup>h</sup> 23 <sup>m</sup> 23 <sup>s</sup> | 2 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup>  | 4 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup>  | 5 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 24 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 16 <sup>h</sup> 26 <sup>m</sup> 26 <sup>s</sup> | 26 <sup>h</sup> 2 <sup>m</sup> 2 <sup>s</sup>   | 23 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 28 <sup>h</sup> 39 <sup>m</sup> 39 <sup>s</sup> | 0 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 29 <sup>h</sup> 39 <sup>m</sup> 39 <sup>s</sup> | 7 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>   | 2 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> |
| W 15 | 3 31 51 | 21 <sup>h</sup> 30 <sup>m</sup> 19 <sup>s</sup>   | 12 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 4 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup>  | 5 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup>  | 5 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 24 <sup>h</sup> 22 <sup>m</sup> 22 <sup>s</sup> | 16 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 26 <sup>h</sup> 4 <sup>m</sup> 4 <sup>s</sup>   | 23 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 28 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup> | 0 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 29 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 7 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> | 2 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> |
| T 16 | 3 35 48 | 22 <sup>h</sup> 30 <sup>m</sup> 48 <sup>s</sup>   | 26 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 5 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup>  | 6 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup>  | 5 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> | 24 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 16 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 26 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>   | 23 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 28 <sup>h</sup> 37 <sup>m</sup> 37 <sup>s</sup> | 0 <sup>h</sup> 51 <sup>m</sup> 51 <sup>s</sup> | 29 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 7 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| F 17 | 3 39 44 | 23 <sup>h</sup> 31 <sup>m</sup> 18 <sup>s</sup>   | 9 <sup>h</sup> 4 <sup>m</sup> 4 <sup>s</sup>    | 7 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup>  | 7 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>    | 4 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 24 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 16 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup> | 26 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>   | 23 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 28 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 0 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 29 <sup>h</sup> 30 <sup>m</sup> 30 <sup>s</sup> | 7 <sup>h</sup> 28 <sup>m</sup> 28 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| S 18 | 3 43 41 | 24 <sup>h</sup> 31 <sup>m</sup> 50 <sup>s</sup>   | 21 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 8 <sup>h</sup> 44 <sup>m</sup> 44 <sup>s</sup>  | 8 <sup>h</sup> 3 <sup>m</sup> 3 <sup>s</sup>    | 4 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 25 <sup>h</sup> 2 <sup>m</sup> 2 <sup>s</sup>   | 16 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>   | 26 <sup>h</sup> 10 <sup>m</sup> 10 <sup>s</sup> | 23 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 28 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 0 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 29 <sup>h</sup> 26 <sup>m</sup> 26 <sup>s</sup> | 7 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| S 19 | 3 47 37 | 25 <sup>h</sup> 32 <sup>m</sup> 23 <sup>s</sup>   | 4 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup>  | 10 <sup>h</sup> 13 <sup>m</sup> 13 <sup>s</sup> | 9 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>    | 4 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 25 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 16 <sup>h</sup> 2 <sup>m</sup> 2 <sup>s</sup>   | 26 <sup>h</sup> 12 <sup>m</sup> 12 <sup>s</sup> | 23 <sup>h</sup> 40 <sup>m</sup> 40 <sup>s</sup> | 28 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 0 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 29 <sup>h</sup> 23 <sup>m</sup> 23 <sup>s</sup> | 7 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 2 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> |
| M 20 | 3 51 34 | 26 <sup>h</sup> 32 <sup>m</sup> 58 <sup>s</sup>   | 16 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 11 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 9 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup>  | 3 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 25 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 15 <sup>h</sup> 57 <sup>m</sup> 57 <sup>s</sup> | 26 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> | 23 <sup>h</sup> 39 <sup>m</sup> 39 <sup>s</sup> | 28 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 0 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 29 <sup>h</sup> 20 <sup>m</sup> 20 <sup>s</sup> | 7 <sup>h</sup> 48 <sup>m</sup> 48 <sup>s</sup> | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> |
| T 21 | 3 55 30 | 27 <sup>h</sup> 33 <sup>m</sup> 35 <sup>s</sup>   | 29 <sup>h</sup> 2 <sup>m</sup> 2 <sup>s</sup>   | 13 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup> | 10 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 3 <sup>h</sup> 24 <sup>m</sup> 24 <sup>s</sup> | 25 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 15 <sup>h</sup> 52 <sup>m</sup> 52 <sup>s</sup> | 26 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 23 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup> | 28 <sup>h</sup> 32 <sup>m</sup> 32 <sup>s</sup> | 0 <sup>h</sup> 50 <sup>m</sup> 50 <sup>s</sup> | 29 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 7 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> |
| W 22 | 3 59 27 | 28 <sup>h</sup> 34 <sup>m</sup> 14 <sup>s</sup>   | 11 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> | 14 <sup>h</sup> 39 <sup>m</sup> 39 <sup>s</sup> | 11 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 3 <sup>h</sup> 1 <sup>m</sup> 1 <sup>s</sup>   | 25 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 15 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 26 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> | 23 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup> | 28 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 0 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 29 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> | 8 <sup>h</sup> 1 <sup>m</sup> 1 <sup>s</sup>   | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> |
| T 23 | 4 3 23  | 29 <sup>h</sup> 34 <sup>m</sup> 53 <sup>s</sup>   | 23 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>   | 16 <sup>h</sup> 6 <sup>m</sup> 6 <sup>s</sup>   | 12 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 2 <sup>h</sup> 39 <sup>m</sup> 39 <sup>s</sup> | 26 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 15 <sup>h</sup> 43 <sup>m</sup> 43 <sup>s</sup> | 26 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 23 <sup>h</sup> 37 <sup>m</sup> 37 <sup>s</sup> | 28 <sup>h</sup> 30 <sup>m</sup> 30 <sup>s</sup> | 0 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 29 <sup>h</sup> 11 <sup>m</sup> 11 <sup>s</sup> | 8 <sup>h</sup> 8 <sup>m</sup> 8 <sup>s</sup>   | 2 <sup>h</sup> 17 <sup>m</sup> 17 <sup>s</sup> |
| F 24 | 4 7 20  | 0 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup>    | 4 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup>  | 17 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 13 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 2 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 26 <sup>h</sup> 22 <sup>m</sup> 22 <sup>s</sup> | 15 <sup>h</sup> 38 <sup>m</sup> 38 <sup>s</sup> | 26 <sup>h</sup> 24 <sup>m</sup> 24 <sup>s</sup> | 23 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 28 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 0 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 29 <sup>h</sup> 7 <sup>m</sup> 7 <sup>s</sup>   | 8 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> | 2 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup> |
| S 25 | 4 11 17 | 1 <sup>h</sup> 36 <sup>m</sup> 17 <sup>s</sup>    | 16 <sup>h</sup> 50 <sup>m</sup> 50 <sup>s</sup> | 19 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>   | 14 <sup>h</sup> 53 <sup>m</sup> 53 <sup>s</sup> | 1 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 26 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 15 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 26 <sup>h</sup> 26 <sup>m</sup> 26 <sup>s</sup> | 23 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 28 <sup>h</sup> 28 <sup>m</sup> 28 <sup>s</sup> | 0 <sup>h</sup> 30 <sup>m</sup> 30 <sup>s</sup> | 29 <sup>h</sup> 4 <sup>m</sup> 4 <sup>s</sup>   | 8 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 2 <sup>h</sup> 18 <sup>m</sup> 18 <sup>s</sup> |
| S 26 | 4 15 13 | 2 <sup>h</sup> 37 <sup>m</sup> 00 <sup>s</sup>    | 28 <sup>h</sup> 41 <sup>m</sup> 41 <sup>s</sup> | 20 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 15 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 1 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 26 <sup>h</sup> 49 <sup>m</sup> 49 <sup>s</sup> | 15 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 26 <sup>h</sup> 28 <sup>m</sup> 28 <sup>s</sup> | 23 <sup>h</sup> 34 <sup>m</sup> 34 <sup>s</sup> | 28 <sup>h</sup> 27 <sup>m</sup> 27 <sup>s</sup> | 0 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 29 <sup>h</sup> 1 <sup>m</sup> 1 <sup>s</sup>   | 8 <sup>h</sup> 28 <sup>m</sup> 28 <sup>s</sup> | 2 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> |
| M 27 | 4 19 10 | 3 <sup>h</sup> 37 <sup>m</sup> 45 <sup>s</sup>    | 10 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 21 <sup>h</sup> 50 <sup>m</sup> 50 <sup>s</sup> | 16 <sup>h</sup> 54 <sup>m</sup> 54 <sup>s</sup> | 1 <sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup>   | 27 <sup>h</sup> 2 <sup>m</sup> 2 <sup>s</sup>   | 15 <sup>h</sup> 24 <sup>m</sup> 24 <sup>s</sup> | 26 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 23 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 28 <sup>h</sup> 26 <sup>m</sup> 26 <sup>s</sup> | 0 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> | 28 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 8 <sup>h</sup> 35 <sup>m</sup> 35 <sup>s</sup> | 2 <sup>h</sup> 20 <sup>m</sup> 20 <sup>s</sup> |
| T 28 | 4 23 6  | 4 <sup>h</sup> 38 <sup>m</sup> 31 <sup>s</sup>    | 22 <sup>h</sup> 37 <sup>m</sup> 37 <sup>s</sup> | 23 <sup>h</sup> 14 <sup>m</sup> 14 <sup>s</sup> | 17 <sup>h</sup> 56 <sup>m</sup> 56 <sup>s</sup> | 0 <sup>h</sup> 47 <sup>m</sup> 47 <sup>s</sup> | 27 <sup>h</sup> 15 <sup>m</sup> 15 <sup>s</sup> | 15 <sup>h</sup> 20 <sup>m</sup> 20 <sup>s</sup> | 26 <sup>h</sup> 33 <sup>m</sup> 33 <sup>s</sup> | 23 <sup>h</sup> 32 <sup>m</sup> 32 <sup>s</sup> | 28 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 0 <sup>h</sup> 19 <sup>m</sup> 19 <sup>s</sup> | 28 <sup>h</sup> 55 <sup>m</sup> 55 <sup>s</sup> | 8 <sup>h</sup> 42 <sup>m</sup> 42 <sup>s</sup> | 2 <sup>h</sup> 21 <sup>m</sup> 21 <sup>s</sup> |
| W 29 | 4 27 3  | 5 <sup>h</sup> 39 <sup>m</sup> 17 <sup>s</sup>    | 4 <sup>h</sup> 51 <sup>m</sup> 51 <sup>s</sup>  | 24 <sup>h</sup> 37 <sup>m</sup> 37 <sup>s</sup> | 18 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 0 <sup>h</sup> 25 <sup>m</sup> 25 <sup>s</sup> | 27 <sup>h</sup> 29 <sup>m</sup> 29 <sup>s</sup> | 15 <sup>h</sup> 16 <sup>m</sup> 16 <sup>s</sup> | 26 <sup>h</sup> 36 <sup>m</sup> 36 <sup>s</sup> | 23 <sup>h</sup> 31 <sup>m</sup> 31 <sup>s</sup> | 28 <sup>h</sup>                                 |                                                |                                                 |                                                |                                                |