

# SWISS EPHEMERIS for the year 1936

## JANUARY 1936

00:00 UT

| Day  | Sid.t   | ☉        | ☽        | ♀      | ♂        | ♂     | ♂     | ♂    | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂       |
|------|---------|----------|----------|--------|----------|-------|-------|------|-------|-------|-------|--------|-------|-------|---------|
| W 1  | 6 37 55 | 9°24'13  | 1°17' 2  | 21°51  | 26°16'56 | 19°22 | 11°39 | 5°56 | 1°35  | 16°44 | 26°39 | 12°36  | 12°55 | 29°11 | 12°R 9  |
| T 2  | 6 41 52 | 10°25'23 | 15°13    | 23°27  | 28° 7    | 20° 9 | 11°52 | 6° 1 | 1°35  | 16°44 | 26°38 | 12°R46 | 12°52 | 29°11 | 12°II 6 |
| F 3  | 6 45 48 | 11°26'32 | 29°19    | 25° 2  | 29°18    | 20°56 | 12° 4 | 6° 6 | 1°34  | 16°43 | 26°37 | 12°46  | 12°49 | 29°18 | 12° 3   |
| S 4  | 6 49 45 | 12°27'42 | 13°17    | 26°38  | 0°29     | 21°43 | 12°17 | 6°12 | 1°34  | 16°43 | 26°36 | 12°D46 | 12°46 | 29°25 | 12° 0   |
| S 5  | 6 53 41 | 13°28'51 | 27° 6    | 28°12  | 1°40     | 22°30 | 12°29 | 6°17 | 1°34  | 16°42 | 26°34 | 12°46  | 12°43 | 29°31 | 11°57   |
| M 6  | 6 57 38 | 14°30'00 | 10°14'5  | 29°46  | 2°51     | 23°17 | 12°42 | 6°22 | 1°33  | 16°42 | 26°33 | 12°46  | 12°40 | 29°38 | 11°54   |
| T 7  | 7 1 34  | 15°31'08 | 24°12    | 1°19   | 4° 2     | 24° 4 | 12°54 | 6°28 | 1°33  | 16°41 | 26°32 | 12°46  | 12°36 | 29°45 | 11°52   |
| W 8  | 7 5 31  | 16°32'17 | 7°25     | 2°51   | 5°14     | 24°51 | 13° 6 | 6°33 | 1°33  | 16°41 | 26°30 | 12°R47 | 12°33 | 29°52 | 11°49   |
| T 9  | 7 9 28  | 17°33'25 | 20°24    | 4°21   | 6°25     | 25°38 | 13°19 | 6°39 | 1°33  | 16°40 | 26°29 | 12°46  | 12°30 | 29°58 | 11°46   |
| F 10 | 7 13 24 | 18°34'33 | 3°19     | 5°49   | 7°37     | 26°25 | 13°31 | 6°45 | 1°33  | 16°39 | 26°28 | 12°46  | 12°27 | 0°5   | 11°43   |
| S 11 | 7 17 21 | 19°35'40 | 15°39    | 7°15   | 8°49     | 27°12 | 13°43 | 6°50 | 1°D33 | 16°38 | 26°26 | 12°45  | 12°24 | 0°12  | 11°41   |
| S 12 | 7 21 17 | 20°36'48 | 27°56    | 8°38   | 10° 0    | 27°59 | 13°55 | 6°56 | 1°33  | 16°38 | 26°25 | 12°44  | 12°20 | 0°18  | 11°38   |
| M13  | 7 25 14 | 21°37'55 | 10°17' 2 | 9°58   | 11°12    | 28°46 | 14° 7 | 7° 2 | 1°33  | 16°37 | 26°24 | 12°43  | 12°17 | 0°25  | 11°36   |
| T 14 | 7 29 10 | 22°39'02 | 21°59    | 11°13  | 12°24    | 29°33 | 14°19 | 7° 8 | 1°33  | 16°36 | 26°23 | 12°42  | 12°14 | 0°32  | 11°33   |
| W15  | 7 33 7  | 23°40'09 | 3°15     | 12°25  | 13°36    | 0°20  | 14°31 | 7°14 | 1°33  | 16°35 | 26°21 | 12°41  | 12°11 | 0°39  | 11°31   |
| T 16 | 7 37 3  | 24°41'16 | 15°44    | 13°31  | 14°48    | 1° 7  | 14°43 | 7°20 | 1°34  | 16°34 | 26°20 | 12°40  | 12° 8 | 0°45  | 11°29   |
| F 17 | 7 41 0  | 25°42'22 | 27°41    | 14°31  | 16° 0    | 1°54  | 14°54 | 7°26 | 1°34  | 16°34 | 26°19 | 12°D40 | 12° 5 | 0°52  | 11°26   |
| S 18 | 7 44 57 | 26°43'28 | 9°16     | 15°24  | 17°12    | 2°40  | 15° 6 | 7°32 | 1°34  | 16°33 | 26°17 | 12°40  | 12° 1 | 0°59  | 11°24   |
| S 19 | 7 48 53 | 27°44'34 | 22° 4    | 16° 9  | 18°25    | 3°27  | 15°18 | 7°38 | 1°35  | 16°32 | 26°16 | 12°41  | 11°58 | 1° 6  | 11°22   |
| M20  | 7 52 50 | 28°45'40 | 4°14     | 16°46  | 19°37    | 4°14  | 15°29 | 7°45 | 1°35  | 16°31 | 26°15 | 12°43  | 11°55 | 1°12  | 11°20   |
| T 21 | 7 56 46 | 29°46'45 | 17°37    | 17°13  | 20°49    | 5° 1  | 15°41 | 7°51 | 1°36  | 16°30 | 26°13 | 12°44  | 11°52 | 1°19  | 11°18   |
| W22  | 8 0 43  | 0°47'50  | 0°37     | 17°30  | 22° 2    | 5°48  | 15°52 | 7°57 | 1°36  | 16°29 | 26°12 | 12°45  | 11°49 | 1°26  | 11°16   |
| T 23 | 8 4 39  | 1°48'55  | 14°41    | 17°R37 | 23°14    | 6°35  | 16° 3 | 8° 3 | 1°37  | 16°28 | 26°11 | 12°R45 | 11°46 | 1°32  | 11°14   |
| F 24 | 8 8 36  | 2°49'58  | 28°47    | 17°31  | 24°27    | 7°22  | 16°15 | 8°10 | 1°38  | 16°27 | 26° 9 | 12°45  | 11°42 | 1°39  | 11°12   |
| S 25 | 8 12 32 | 3°51'01  | 13°12    | 17°15  | 25°39    | 8° 9  | 16°26 | 8°16 | 1°38  | 16°25 | 26° 8 | 12°43  | 11°39 | 1°46  | 11°10   |
| S 26 | 8 16 29 | 4°52'03  | 27°49    | 16°46  | 26°52    | 8°56  | 16°37 | 8°23 | 1°39  | 16°24 | 26° 7 | 12°40  | 11°36 | 1°53  | 11° 9   |
| M27  | 8 20 26 | 5°53'04  | 12°31    | 16° 7  | 28° 5    | 9°43  | 16°48 | 8°29 | 1°40  | 16°23 | 26° 5 | 12°37  | 11°33 | 1°59  | 11° 7   |
| T 28 | 8 24 22 | 6°54'04  | 27°12    | 15°18  | 29°18    | 10°29 | 16°59 | 8°36 | 1°41  | 16°22 | 26° 4 | 12°34  | 11°30 | 2° 6  | 11° 6   |
| W29  | 8 28 19 | 7°55'03  | 11°45    | 14°20  | 0°30     | 11°16 | 17° 9 | 8°43 | 1°42  | 16°21 | 26° 3 | 12°31  | 11°26 | 2°13  | 11° 4   |
| T 30 | 8 32 15 | 8°56'00  | 26° 5    | 13°15  | 1°43     | 12° 3 | 17°20 | 8°49 | 1°43  | 16°19 | 26° 2 | 12°29  | 11°23 | 2°19  | 11° 3   |
| F 31 | 8 36 12 | 9°56'56  | 10°10    | 12° 5  | 2°56     | 12°50 | 17°31 | 8°56 | 1°44  | 16°18 | 26° 0 | 12°D28 | 11°20 | 2°26  | 11°II 1 |

Delta T = 23.72 sec.

## FEBRUARY 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂     | ♂     | ♂     | ♂     | ♂    | ♂      | ♂      | ♂      | ♂     | ♂    | ♂       |
|------|----------|----------|-------|--------|-------|-------|-------|-------|------|--------|--------|--------|-------|------|---------|
| S 1  | 8 40 8   | 10°57'51 | 23°58 | 10°R51 | 4°39  | 13°37 | 17°41 | 9°3   | 1°45 | 16°R17 | 25°R59 | 12°39  | 11°37 | 2°33 | 11°R 0  |
| S 2  | 8 44 5   | 11°58'45 | 7°13  | 9°37   | 5°22  | 14°23 | 17°52 | 9°10  | 1°46 | 16°16  | 25°58  | 12°30  | 11°14 | 2°40 | 10°II59 |
| M 3  | 8 48 1   | 12°59'37 | 20°46 | 8°24   | 6°35  | 15°10 | 18° 2 | 9°17  | 1°47 | 16°14  | 25°56  | 12°32  | 11°11 | 2°46 | 10°58   |
| T 4  | 8 51 58  | 14° 0'28 | 3°48  | 7°14   | 7°48  | 15°57 | 18°12 | 9°23  | 1°48 | 16°13  | 25°55  | 12°33  | 11° 7 | 2°53 | 10°57   |
| W 5  | 8 55 55  | 15° 1'18 | 16°37 | 6° 9   | 9° 1  | 16°43 | 18°22 | 9°30  | 1°50 | 16°12  | 25°54  | 12°R34 | 11° 4 | 3° 0 | 10°56   |
| T 6  | 8 59 51  | 16° 2'06 | 29°15 | 5° 9   | 10°14 | 17°30 | 18°32 | 9°37  | 1°51 | 16°10  | 25°53  | 12°32  | 11° 1 | 3° 7 | 10°55   |
| F 7  | 9 3 48   | 17° 2'53 | 11°43 | 4°17   | 11°27 | 18°17 | 18°42 | 9°44  | 1°52 | 16° 9  | 25°51  | 12°29  | 10°58 | 3°13 | 10°54   |
| S 8  | 9 7 44   | 18° 3'39 | 24° 0 | 3°33   | 12°40 | 19° 3 | 18°52 | 9°51  | 1°54 | 16° 7  | 25°50  | 12°24  | 10°55 | 3°20 | 10°53   |
| S 9  | 9 11 41  | 19° 4'23 | 6°10  | 2°57   | 13°53 | 19°50 | 19° 2 | 9°58  | 1°55 | 16° 6  | 25°49  | 12°18  | 10°52 | 3°27 | 10°53   |
| M10  | 9 15 37  | 20° 5'06 | 18°11 | 2°29   | 15° 6 | 20°36 | 19°11 | 10° 5 | 1°57 | 16° 5  | 25°48  | 12°11  | 10°48 | 3°33 | 10°52   |
| T 11 | 9 19 34  | 21° 5'48 | 0°17  | 2° 9   | 16°20 | 21°23 | 19°21 | 10°12 | 1°58 | 16° 3  | 25°47  | 12° 3  | 10°45 | 3°40 | 10°51   |
| W12  | 9 23 30  | 22° 6'29 | 12° 0 | 1°57   | 17°33 | 22° 9 | 19°30 | 10°19 | 2° 0 | 16° 2  | 25°45  | 11°56  | 10°42 | 3°47 | 10°51   |
| T 13 | 9 27 27  | 23° 7'09 | 23°51 | 1°D53  | 18°46 | 22°55 | 19°39 | 10°27 | 2° 2 | 16° 0  | 25°44  | 11°51  | 10°39 | 3°54 | 10°51   |
| F 14 | 9 31 24  | 24° 7'47 | 5°16  | 1°56   | 20° 0 | 23°42 | 19°48 | 10°34 | 2° 3 | 15°59  | 25°43  | 11°47  | 10°36 | 4° 0 | 10°50   |
| S 15 | 9 35 20  | 25° 8'24 | 17°48 | 2° 5   | 21°13 | 24°28 | 19°57 | 10°41 | 2° 5 | 15°57  | 25°42  | 11°45  | 10°32 | 4° 7 | 10°50   |
| S 16 | 9 39 17  | 26° 9'01 | 0°17  | 2°21   | 22°26 | 25°15 | 20° 6 | 10°48 | 2° 7 | 15°56  | 25°41  | 11°D44 | 10°29 | 4°14 | 10°50   |
| M17  | 9 43 13  | 27° 9'36 | 12°33 | 2°43   | 23°40 | 26° 1 | 20°15 | 10°55 | 2° 9 | 15°54  | 25°40  | 11°45  | 10°26 | 4°20 | 10°50   |
| T 18 | 9 47 10  | 28°10'09 | 25°25 | 3°11   | 24°53 | 26°47 | 20°24 | 11° 2 | 2°11 | 15°52  | 25°39  | 11°47  | 10°23 | 4°27 | 10°D50  |
| W19  | 9 51 6   | 29°10'42 | 8°43  | 3°43   | 26° 7 | 27°33 | 20°32 | 11°10 | 2°13 | 15°51  | 25°38  | 11°R48 | 10°20 | 4°34 | 10°50   |
| T 20 | 9 55 3   | 0°11'13  | 22°29 | 4°20   | 27°20 | 28°20 | 20°41 | 11°17 | 2°15 | 15°49  | 25°37  | 11°47  | 10°17 | 4°41 | 10°50   |
| F 21 | 9 58 59  | 1°11'43  | 6°43  | 5° 2   | 28°34 | 29° 6 | 20°49 | 11°24 | 2°17 | 15°48  | 25°36  | 11°45  | 10°13 | 4°47 | 10°50   |
| S 22 | 10 2 56  | 2°12'11  | 21°21 | 5°47   | 29°47 | 29°52 | 20°57 | 11°32 | 2°19 | 15°46  | 25°35  | 11°40  | 10°10 | 4°54 | 10°50   |
| S 23 | 10 6 53  | 3°12'38  | 6°19  | 6°36   | 1°1   | 0°38  | 21° 5 | 11°39 | 2°21 | 15°44  | 25°34  | 11°33  | 10° 7 | 5° 1 | 10°51   |
| M24  | 10 10 49 | 4°13'03  | 21°26 | 7°29   | 2°14  | 1°24  | 21°13 | 11°46 | 2°23 | 15°43  | 25°33  | 11°25  | 10° 4 | 5° 8 | 10°51   |
| T 25 | 10 14 46 | 5°13'26  | 6°33  | 8°24   | 3°28  | 2°10  | 21°21 | 11°53 | 2°25 | 15°41  | 25°32  | 11°16  | 10° 1 | 5°14 | 10°52   |
| W26  | 10 18 42 | 6°13'47  | 21°30 | 9°23   | 4°41  | 2°56  | 21°28 | 12° 1 | 2°27 | 15°40  | 25°31  | 11° 9  | 9°58  | 5°21 | 10°52   |
| T 27 | 10 22 39 | 7°14'06  | 6°8   | 9°10   | 5°55  | 3°42  | 21°36 | 12° 8 | 2°29 | 15°38  | 25°30  | 11° 3  | 9°54  | 5°28 | 10°53   |
| F 28 | 10 26 35 | 8°14'24  | 20°26 | 11°27  | 7° 8  | 4°28  | 21°43 | 12°15 | 2°32 | 15°36  | 25°29  | 10°59  | 9°51  | 5°34 | 10°54   |
| S 29 | 10 30 32 | 9°14'39  | 4°17  | 12°33  | 8°22  | 5°14  | 21°50 | 12°23 | 2°34 | 15°35  | 25°28  | 10°D57 | 9°48  | 5°41 | 10°II55 |

Delta T = 23.73 sec.

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# SWISS EPHEMERIS for the year 1936

MARCH 1936

00:00 UT

| Day  | Sid.t    | ☉         | ☽         | ♀         | ♂         | ♂         | ♂         | ♂         | ♂        | ♂         | ♂         | ♂         | ♂        | ♂        | ♂         |
|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|----------|-----------|
| S 1  | 10 34 28 | 10°14'53" | 17°11'45" | 13°44'11" | 9°35'35"  | 6°07'00"  | 21°58'58" | 12°30'30" | 2°36'36" | 15°R33    | 25°R27    | 10°58'58" | 9°34'45" | 5°48'48" | 10°11'56" |
| M 2  | 10 38 25 | 11°15'04" | 0°55'51"  | 14°52'14" | 10°49'10" | 6°46'46"  | 22°04'22" | 12°38'38" | 2°39'39" | 15°R31    | 25°R26    | 10°58'58" | 9°42'42" | 5°55'55" | 10°57'57" |
| T 3  | 10 42 22 | 12°15'13" | 13°39'39" | 16°04'16" | 12°03'12" | 7°32'32"  | 22°11'22" | 12°45'45" | 2°41'41" | 15°30'30" | 25°25'25" | 10°R59    | 9°38'38" | 6°01'01" | 10°58'58" |
| W 4  | 10 46 18 | 13°15'20" | 26°12'12" | 17°18'18" | 13°16'16" | 8°17'17"  | 22°18'18" | 12°52'52" | 2°44'44" | 15°28'28" | 25°24'24" | 10°57'57" | 9°35'35" | 6°08'08" | 10°59'59" |
| T 5  | 10 50 15 | 14°15'25" | 8°02'34"  | 18°34'34" | 14°30'30" | 9°03'03"  | 22°24'24" | 13°00'00" | 2°46'46" | 15°26'26" | 25°24'24" | 10°54'54" | 9°32'32" | 6°15'15" | 11°00'00" |
| F 6  | 10 54 11 | 15°15'28" | 20°46'46" | 19°51'51" | 15°44'44" | 9°49'49"  | 22°31'31" | 13°07'07" | 2°49'49" | 15°25'25" | 25°23'23" | 10°47'47" | 9°29'29" | 6°22'22" | 11°01'01" |
| S 7  | 10 58 8  | 16°15'29" | 2°10'52"  | 21°10'10" | 16°57'57" | 10°34'34" | 22°37'37" | 13°14'14" | 2°51'51" | 15°23'23" | 25°22'22" | 10°38'38" | 9°26'26" | 6°28'28" | 11°03'03" |
| S 8  | 11 2 4   | 17°15'28" | 14°52'52" | 22°31'31" | 18°11'11" | 11°20'20" | 22°43'43" | 13°22'22" | 2°54'54" | 15°21'21" | 25°21'21" | 10°27'27" | 9°23'23" | 6°35'35" | 11°04'04" |
| M 9  | 11 6 1   | 18°15'25" | 26°49'49" | 23°53'53" | 19°25'25" | 12°05'05" | 22°49'49" | 13°29'29" | 2°57'57" | 15°20'20" | 25°20'20" | 10°14'14" | 9°19'19" | 6°42'42" | 11°05'05" |
| T 10 | 11 9 57  | 19°15'20" | 8°42'42"  | 25°16'16" | 20°38'38" | 12°51'51" | 22°54'54" | 13°36'36" | 2°59'59" | 15°18'18" | 25°20'20" | 10°01'01" | 9°16'16" | 6°48'48" | 11°07'07" |
| W 11 | 11 13 54 | 20°15'13" | 20°34'34" | 26°41'41" | 21°52'52" | 13°36'36" | 23°00'00" | 13°44'44" | 3°02'02" | 15°16'16" | 25°19'19" | 9°48'48"  | 9°13'13" | 6°55'55" | 11°09'09" |
| T 12 | 11 17 51 | 21°15'04" | 2°11'27"  | 28°08'08" | 23°06'06" | 14°22'22" | 23°05'05" | 13°51'51" | 3°05'05" | 15°15'15" | 25°18'18" | 9°37'37"  | 9°10'10" | 7°02'02" | 11°10'10" |
| F 13 | 11 21 47 | 22°14'54" | 14°23'23" | 29°35'35" | 24°19'19" | 15°07'07" | 23°10'10" | 13°58'58" | 3°08'08" | 15°13'13" | 25°18'18" | 9°29'29"  | 9°07'07" | 7°09'09" | 11°12'12" |
| S 14 | 11 25 44 | 23°14'42" | 26°25'25" | 1°11'44"  | 25°33'33" | 15°52'52" | 23°16'16" | 14°06'06" | 3°10'10" | 15°11'11" | 25°17'17" | 9°23'23"  | 9°03'03" | 7°15'15" | 11°14'14" |
| S 15 | 11 29 40 | 24°14'28" | 8°37'37"  | 2°35'35"  | 26°47'47" | 16°38'38" | 23°20'20" | 14°13'13" | 3°13'13" | 15°10'10" | 25°17'17" | 9°20'20"  | 9°00'00" | 7°22'22" | 11°16'16" |
| M 16 | 11 33 37 | 25°14'13" | 21°04'04" | 4°06'06"  | 28°01'01" | 17°23'23" | 23°25'25" | 14°20'20" | 3°16'16" | 15°08'08" | 25°16'16" | 9°D19     | 8°57'57" | 7°29'29" | 11°18'18" |
| T 17 | 11 37 33 | 26°13'56" | 3°50'50"  | 5°39'39"  | 29°14'14" | 18°08'08" | 23°30'30" | 14°27'27" | 3°19'19" | 15°06'06" | 25°15'15" | 9°R19     | 8°54'54" | 7°35'35" | 11°20'20" |
| W 18 | 11 41 30 | 27°13'37" | 17°01'01" | 7°14'14"  | 0°11'28"  | 18°53'53" | 23°34'34" | 14°35'35" | 3°22'22" | 15°05'05" | 25°15'15" | 9°19'19"  | 8°51'51" | 7°42'42" | 11°22'22" |
| T 19 | 11 45 26 | 28°13'17" | 0°39'39"  | 8°49'49"  | 1°42'42"  | 19°38'38" | 23°38'38" | 14°42'42" | 3°25'25" | 15°03'03" | 25°14'14" | 9°17'17"  | 8°48'48" | 7°49'49" | 11°24'24" |
| F 20 | 11 49 23 | 29°12'54" | 14°47'47" | 10°26'26" | 2°56'56"  | 20°23'23" | 23°42'42" | 14°49'49" | 3°28'28" | 15°02'02" | 25°14'14" | 9°14'14"  | 8°44'44" | 7°56'56" | 11°26'26" |
| S 21 | 11 53 20 | 0°12'30"  | 29°24'24" | 12°04'04" | 4°09'09"  | 21°08'08" | 23°46'46" | 14°56'56" | 3°31'31" | 15°00'00" | 25°13'13" | 9°07'07"  | 8°41'41" | 8°02'02" | 11°29'29" |
| S 22 | 11 57 16 | 1°12'04"  | 14°11'24" | 13°43'43" | 5°23'23"  | 21°53'53" | 23°50'50" | 15°04'04" | 3°34'34" | 14°58'58" | 25°13'13" | 8°58'58"  | 8°38'38" | 8°09'09" | 11°31'31" |
| M 23 | 12 1 13  | 2°11'36"  | 29°40'40" | 15°24'24" | 6°37'37"  | 22°38'38" | 23°53'53" | 15°11'11" | 3°37'37" | 14°57'57" | 25°13'13" | 8°47'47"  | 8°35'35" | 8°16'16" | 11°34'34" |
| T 24 | 12 5 9   | 3°11'06"  | 15°01'01" | 17°06'06" | 7°51'51"  | 23°23'23" | 23°57'57" | 15°18'18" | 3°40'40" | 14°55'55" | 25°12'12" | 8°36'36"  | 8°32'32" | 8°23'23" | 11°36'36" |
| W 25 | 12 9 6   | 4°10'34"  | 0°11'14"  | 18°49'49" | 9°04'04"  | 24°08'08" | 24°00'00" | 15°25'25" | 3°43'43" | 14°54'54" | 25°12'12" | 8°25'25"  | 8°29'29" | 8°29'29" | 11°39'39" |
| T 26 | 12 13 2  | 5°10'00"  | 15°10'10" | 20°33'33" | 10°18'18" | 24°53'53" | 24°03'03" | 15°32'32" | 3°46'46" | 14°52'52" | 25°12'12" | 8°17'17"  | 8°25'25" | 8°36'36" | 11°41'41" |
| F 27 | 12 16 59 | 6°09'23"  | 29°41'41" | 22°19'19" | 11°32'32" | 25°37'37" | 24°06'06" | 15°39'39" | 3°49'49" | 14°50'50" | 25°11'11" | 8°11'11"  | 8°22'22" | 8°43'43" | 11°44'44" |
| S 28 | 12 20 55 | 7°08'45"  | 13°11'44" | 24°06'06" | 12°46'46" | 26°22'22" | 24°08'08" | 15°46'46" | 3°52'52" | 14°49'49" | 25°11'11" | 8°08'08"  | 8°19'19" | 8°49'49" | 11°47'47" |
| S 29 | 12 24 52 | 8°08'04"  | 27°18'18" | 25°55'55" | 13°59'59" | 27°07'07" | 24°11'11" | 15°53'53" | 3°56'56" | 14°47'47" | 25°11'11" | 8°06'06"  | 8°16'16" | 8°56'56" | 11°50'50" |
| M 30 | 12 28 49 | 9°07'20"  | 10°52'26" | 27°45'45" | 15°13'13" | 27°51'51" | 24°13'13" | 16°00'00" | 3°59'59" | 14°46'46" | 25°10'10" | 8°06'06"  | 8°13'13" | 9°03'03" | 11°53'53" |
| T 31 | 12 32 45 | 10°06'35" | 23°51'11" | 29°36'36" | 16°27'27" | 28°36'36" | 24°15'15" | 16°07'07" | 4°02'02" | 14°44'44" | 25°10'10" | 8°06'06"  | 8°09'09" | 9°10'10" | 11°56'56" |

Delta T = 23.74 sec.

APRIL 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽        | ♀        | ♂        | ♂        | ♂        | ♂        | ♂       | ♂      | ♂      | ♂       | ♂       | ♂       | ♂        |
|------|----------|----------|----------|----------|----------|----------|----------|----------|---------|--------|--------|---------|---------|---------|----------|
| W 1  | 12 36 42 | 11°05'47 | 5°02'39  | 1°05'29  | 17°41'41 | 29°02'02 | 24°17'17 | 16°14'14 | 4°05'05 | 14°R43 | 25°R10 | 8°R 4   | 8°03'03 | 9°16'16 | 11°11'59 |
| T 2  | 12 40 38 | 12° 4'56 | 17°52    | 3°23     | 18°54    | 0°08'08  | 24°19    | 16°21    | 4° 9    | 14°R42 | 25°R10 | 8°03'03 | 8° 3    | 9°23    | 12° 2    |
| F 3  | 12 44 35 | 13° 4'03 | 29°56    | 5°18     | 20° 8    | 0°49     | 24°20    | 16°28    | 4°12    | 14°40  | 25°10  | 7°53    | 8° 0    | 9°30    | 12° 5    |
| S 4  | 12 48 31 | 14° 3'08 | 11°10'54 | 7°15     | 21°22    | 1°33     | 24°22    | 16°35    | 4°15    | 14°39  | 25°10  | 7°44    | 7°57    | 9°36    | 12° 8    |
| S 5  | 12 52 28 | 15° 2'11 | 23°48    | 9°13     | 22°36    | 2°18     | 24°23    | 16°41    | 4°18    | 14°37  | 25°10  | 7°32    | 7°54    | 9°43    | 12°11    |
| M 6  | 12 56 24 | 16° 1'12 | 5°41     | 11°12    | 23°49    | 3° 2     | 24°24    | 16°48    | 4°22    | 14°36  | 25° 9  | 7°18    | 7°50    | 9°50    | 12°14    |
| T 7  | 13 0 21  | 17° 0'10 | 17°34    | 13°13    | 25° 3    | 3°46     | 24°25    | 16°55    | 4°25    | 14°35  | 25° 9  | 7° 4    | 7°47    | 9°57    | 12°18    |
| W 8  | 13 4 17  | 17°59'07 | 29°28    | 15°14    | 26°17    | 4°30     | 24°25    | 17° 2    | 4°28    | 14°33  | 25°D 9 | 6°50    | 7°44    | 10° 3   | 12°21    |
| T 9  | 13 8 14  | 18°58'02 | 11°11'24 | 17°17    | 27°30    | 5°14     | 24°26    | 17° 8    | 4°32    | 14°32  | 25° 9  | 6°38    | 7°41    | 10°10   | 12°25    |
| F 10 | 13 12 11 | 19°56'54 | 23°26    | 19°21    | 28°44    | 5°58     | 24°26    | 17°15    | 4°35    | 14°31  | 25° 9  | 6°29    | 7°38    | 10°17   | 12°28    |
| S 11 | 13 16 7  | 20°55'45 | 5°33     | 21°26    | 29°58    | 6°42     | 24°R26   | 17°21    | 4°38    | 14°29  | 25°10  | 6°22    | 7°35    | 10°24   | 12°32    |
| S 12 | 13 20 4  | 21°54'34 | 17°50    | 23°32    | 1°12     | 7°26     | 24°26    | 17°28    | 4°42    | 14°28  | 25°10  | 6°19    | 7°31    | 10°30   | 12°35    |
| M13  | 13 24 0  | 22°53'22 | 0°32     | 25°38    | 2°25     | 8°10     | 24°26    | 17°34    | 4°45    | 14°27  | 25°10  | 6°17    | 7°28    | 10°37   | 12°39    |
| T 14 | 13 27 57 | 23°52'08 | 13° 6    | 27°44    | 3°39     | 8°54     | 24°25    | 17°41    | 4°49    | 14°26  | 25°10  | 6°D17   | 7°25    | 10°44   | 12°43    |
| W15  | 13 31 53 | 24°50'52 | 26°12    | 29°51    | 4°53     | 9°38     | 24°24    | 17°47    | 4°52    | 14°24  | 25°10  | 6°R17   | 7°22    | 10°50   | 12°46    |
| T 16 | 13 35 50 | 25°49'34 | 9°43     | 1°57     | 6° 7     | 10°21    | 24°23    | 17°54    | 4°55    | 14°23  | 25°10  | 6°17    | 7°19    | 10°57   | 12°50    |
| F 17 | 13 39 46 | 26°48'14 | 23°41    | 4° 3     | 7°20     | 11° 5    | 24°22    | 18° 0    | 4°59    | 14°22  | 25°10  | 6°14    | 7°15    | 11° 4   | 12°54    |
| S 18 | 13 43 43 | 27°46'53 | 8°11'44  | 6° 9     | 8°34     | 11°49    | 24°21    | 18° 6    | 5° 2    | 14°21  | 25°11  | 6° 9    | 7°12    | 11°11   | 12°58    |
| S 19 | 13 47 40 | 28°45'30 | 22°53    | 8°13     | 9°48     | 12°32    | 24°20    | 18°12    | 5° 6    | 14°20  | 25°11  | 6° 2    | 7° 9    | 11°17   | 13° 2    |
| M20  | 13 51 36 | 29°44'06 | 8°05'05  | 10°16    | 11° 1    | 13°16    | 24°18    | 18°18    | 5° 9    | 14°19  | 25°11  | 5°52    | 7° 6    | 11°24   | 13° 6    |
| T 21 | 13 55 33 | 0°42'39  | 23°15    | 12°17    | 12°15    | 13°59    | 24°16    | 18°25    | 5°13    | 14°18  | 25°12  | 5°43    | 7° 3    | 11°31   | 13°10    |
| W22  | 13 59 29 | 1°41'11  | 8°08'28  | 14°16    | 13°29    | 14°43    | 24°14    | 18°31    | 5°16    | 14°17  | 25°12  | 5°33    | 7° 0    | 11°37   | 13°14    |
| T 23 | 14 3 26  | 2°39'41  | 23°28    | 16°13    | 14°43    | 15°26    | 24°12    | 18°37    | 5°19    | 14°16  | 25°12  | 5°26    | 6°56    | 11°44   | 13°18    |
| F 24 | 14 7 22  | 3°38'09  | 8°11'07  | 18° 7    | 15°56    | 16°10    | 24°10    | 18°43    | 5°23    | 14°15  | 25°13  | 5°21    | 6°53    | 11°51   | 13°22    |
| S 25 | 14 11 19 | 4°36'35  | 22°18    | 19°59    | 17°10    | 16°53    | 24° 7    | 18°48    | 5°26    | 14°14  | 25°13  | 5°18    | 6°50    | 11°58   | 13°26    |
| S 26 | 14 15 15 | 5°34'59  | 6°01'01  | 21°47    | 18°24    | 17°36    | 24° 4    | 18°54    | 5°30    | 14°13  | 25°14  | 5°D17   | 6°47    | 12° 4   | 13°31    |
| M27  | 14 19 12 | 6°33'21  | 19°15    | 23°32    | 19°37    | 18°19    | 24° 1    | 19° 0    | 5°33    | 14°12  | 25°14  | 5°18    | 6°44    | 12°11   | 13°35    |
| T 28 | 14 23 9  | 7°31'40  | 2°05'05  | 25°13    | 20°51    | 19° 3    | 23°58    | 19° 6    | 5°37    | 14°11  | 25°15  | 5°R18   | 6°41    | 12°18   | 13°39    |
| W29  | 14 27 5  | 8°29'48  | 14°34    | 26°51    | 22° 5    | 19°46    | 23°55    | 19°11    | 5°40    | 14°10  | 25°15  | 5°18    | 6°37    | 12°25   | 13°43    |
| T 30 | 14 31 2  | 9°28'13  | 26°04'48 | 28°05'25 | 23°18    | 20°08'29 | 23°07'51 | 19°01'17 | 5°44    | 14°10  | 25°16  | 5°07'17 | 6°34    | 12°31   | 13°48    |

# SWISS EPHEMERIS for the year 1936

MAY 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♂     | ♂     | ♂     | ♂     | ♂    | ♂      | ♂     | ♂     | ♂    | ♂     | ♂     |
|------|----------|----------|-------|--------|-------|-------|-------|-------|------|--------|-------|-------|------|-------|-------|
| F 1  | 14 34 58 | 10°26'27 | 8°50  | 29°55  | 24°32 | 21°12 | 23°48 | 19°23 | 5°47 | 14°R 9 | 25°16 | 5°R13 | 6°31 | 12°38 | 13°52 |
| S 2  | 14 38 55 | 11°24'38 | 20°45 | 1°20   | 25°46 | 21°55 | 23°44 | 19°28 | 5°51 | 14°R 8 | 25°17 | 5°R 7 | 6°28 | 12°45 | 13°57 |
| S 3  | 14 42 51 | 12°22'47 | 2°37  | 2°42   | 26°59 | 22°37 | 23°40 | 19°33 | 5°54 | 14° 7  | 25°17 | 4°59  | 6°25 | 12°51 | 14° 1 |
| M 4  | 14 46 48 | 13°20'55 | 14°29 | 3°59   | 28°13 | 23°20 | 23°36 | 19°39 | 5°57 | 14° 7  | 25°18 | 4°50  | 6°21 | 12°58 | 14° 6 |
| T 5  | 14 50 44 | 14°19'01 | 26°23 | 5°12   | 29°27 | 24° 3 | 23°32 | 19°44 | 6° 1 | 14° 6  | 25°19 | 4°40  | 6°18 | 13° 5 | 14°10 |
| W 6  | 14 54 41 | 15°17'05 | 8°21  | 6°20   | 0°40  | 24°46 | 23°27 | 19°49 | 6° 4 | 14° 5  | 25°19 | 4°31  | 6°15 | 13°12 | 14°15 |
| T 7  | 14 58 38 | 16°15'07 | 20°25 | 7°24   | 1°54  | 25°29 | 23°23 | 19°54 | 6° 8 | 14° 5  | 25°20 | 4°22  | 6°12 | 13°18 | 14°19 |
| F 8  | 15 2 34  | 17°13'08 | 2°36  | 8°24   | 3° 8  | 26°11 | 23°18 | 20° 0 | 6°11 | 14° 4  | 25°21 | 4°16  | 6° 9 | 13°25 | 14°24 |
| S 9  | 15 6 31  | 18°11'07 | 14°55 | 9°19   | 4°21  | 26°54 | 23°13 | 20° 5 | 6°14 | 14° 4  | 25°21 | 4°12  | 6° 6 | 13°32 | 14°29 |
| S 10 | 15 10 27 | 19° 9'05 | 27°24 | 10° 9  | 5°35  | 27°36 | 23° 8 | 20°10 | 6°18 | 14° 3  | 25°22 | 4°10  | 6° 2 | 13°39 | 14°33 |
| M11  | 15 14 24 | 20° 7'01 | 10° 5 | 10°54  | 6°48  | 28°19 | 23° 3 | 20°14 | 6°21 | 14° 3  | 25°23 | 4°D10 | 5°59 | 13°45 | 14°38 |
| T 12 | 15 18 20 | 21° 4'56 | 23° 0 | 11°35  | 8° 2  | 29° 1 | 22°58 | 20°19 | 6°25 | 14° 2  | 25°24 | 4°11  | 5°56 | 13°52 | 14°43 |
| W13  | 15 22 17 | 22° 2'50 | 6°12  | 12°11  | 9°16  | 29°44 | 22°52 | 20°24 | 6°28 | 14° 2  | 25°25 | 4°13  | 5°53 | 13°59 | 14°47 |
| T 14 | 15 26 13 | 23° 0'42 | 19°43 | 12°41  | 10°29 | 0°26  | 22°47 | 20°29 | 6°31 | 14° 1  | 25°26 | 4°R14 | 5°50 | 14° 5 | 14°52 |
| F 15 | 15 30 10 | 23°58'34 | 3°34  | 13° 7  | 11°43 | 1° 8  | 22°41 | 20°33 | 6°35 | 14° 1  | 25°26 | 4°13  | 5°46 | 14°12 | 14°57 |
| S 16 | 15 34 7  | 24°56'24 | 17°47 | 13°28  | 12°57 | 1°51  | 22°35 | 20°38 | 6°38 | 14° 1  | 25°27 | 4°11  | 5°43 | 14°19 | 15° 2 |
| S 17 | 15 38 3  | 25°54'12 | 2°18  | 13°44  | 14°10 | 2°33  | 22°29 | 20°42 | 6°41 | 14° 0  | 25°28 | 4° 8  | 5°40 | 14°26 | 15° 7 |
| M18  | 15 42 0  | 26°52'00 | 17° 5 | 13°56  | 15°24 | 3°15  | 22°23 | 20°46 | 6°45 | 14° 0  | 25°29 | 4° 3  | 5°37 | 14°32 | 15°12 |
| T 19 | 15 45 56 | 27°49'47 | 2° 0  | 14° 2  | 16°37 | 3°57  | 22°17 | 20°51 | 6°48 | 14° 0  | 25°30 | 3°58  | 5°34 | 14°39 | 15°17 |
| W20  | 15 49 53 | 28°47'32 | 16°56 | 14°R 3 | 17°51 | 4°39  | 22°10 | 20°55 | 6°51 | 14° 0  | 25°31 | 3°53  | 5°31 | 14°46 | 15°21 |
| T 21 | 15 53 49 | 29°45'16 | 1°43  | 14° 0  | 19° 5 | 5°21  | 22° 4 | 20°59 | 6°54 | 14° 0  | 25°32 | 3°49  | 5°27 | 14°52 | 15°26 |
| F 22 | 15 57 46 | 0°42'59  | 16°14 | 13°52  | 20°18 | 6° 3  | 21°57 | 21° 3 | 6°58 | 13°59  | 25°33 | 3°46  | 5°24 | 14°59 | 15°31 |
| S 23 | 16 1 42  | 1°40'41  | 0°24  | 13°40  | 21°32 | 6°45  | 21°51 | 21° 7 | 7° 1 | 13°59  | 25°34 | 3°D45 | 5°21 | 15° 6 | 15°36 |
| S 24 | 16 5 39  | 2°38'21  | 14° 8 | 13°24  | 22°46 | 7°27  | 21°44 | 21°11 | 7° 4 | 13°59  | 25°35 | 3°45  | 5°18 | 15°13 | 15°41 |
| M25  | 16 9 36  | 3°36'00  | 27°27 | 13° 4  | 23°59 | 8° 9  | 21°37 | 21°15 | 7° 7 | 13°D59 | 25°36 | 3°46  | 5°15 | 15°19 | 15°46 |
| T 26 | 16 13 32 | 4°33'37  | 10°21 | 12°41  | 25°13 | 8°51  | 21°30 | 21°19 | 7°10 | 13°59  | 25°37 | 3°48  | 5°12 | 15°26 | 15°51 |
| W27  | 16 17 29 | 5°31'12  | 22°55 | 12°15  | 26°26 | 9°32  | 21°23 | 21°22 | 7°14 | 13°59  | 25°39 | 3°49  | 5° 8 | 15°33 | 15°56 |
| T 28 | 16 21 25 | 6°28'47  | 5°11  | 11°46  | 27°40 | 10°14 | 21°16 | 21°26 | 7°17 | 13°59  | 25°40 | 3°R50 | 5° 5 | 15°40 | 16° 1 |
| F 29 | 16 25 22 | 7°26'19  | 17°15 | 11°15  | 28°54 | 10°56 | 21° 9 | 21°29 | 7°20 | 13°59  | 25°41 | 3°50  | 5° 2 | 15°46 | 16° 6 |
| S 30 | 16 29 18 | 8°23'51  | 29°11 | 10°43  | 0°11  | 11°37 | 21° 1 | 21°33 | 7°23 | 14° 0  | 25°42 | 3°48  | 4°59 | 15°53 | 16°11 |
| S 31 | 16 33 15 | 9°21'21  | 11° 4 | 10°11  | 9     | 1°11  | 21°19 | 20°54 | 7°26 | 14°R 0 | 25°43 | 3°R45 | 4°56 | 16° 0 | 16°16 |

Delta T = 23.77 sec.

JUNE 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♂     | ♂      | ♂     | ♂    | ♂      | ♂     | ♂     | ♂    | ♂     | ♂     |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|--------|-------|-------|------|-------|-------|
| M 1  | 16 37 11 | 10°18'49 | 22°57 | 9°R36 | 2°34  | 13°11 | 20°R47 | 21°39 | 7°29 | 14°R 0 | 25°44 | 3°R42 | 4°52 | 16° 6 | 16°21 |
| T 2  | 16 41 8  | 11°16'17 | 4°54  | 9°11  | 2°48  | 13°42 | 20°R39 | 21°42 | 7°32 | 14° 0  | 25°46 | 3°R38 | 4°49 | 16°13 | 16°27 |
| W 3  | 16 45 5  | 12°13'44 | 16°58 | 8°29  | 5° 2  | 14°23 | 20°32  | 21°45 | 7°35 | 14° 0  | 25°47 | 3°35  | 4°46 | 16°20 | 16°32 |
| T 4  | 16 49 1  | 13°11'09 | 29°10 | 7°58  | 6°15  | 15° 4 | 20°24  | 21°48 | 7°38 | 14° 1  | 25°48 | 3°32  | 4°43 | 16°27 | 16°37 |
| F 5  | 16 52 58 | 14° 8'34 | 11°33 | 7°29  | 7°29  | 15°46 | 20°17  | 21°51 | 7°41 | 14° 1  | 25°49 | 3°30  | 4°40 | 16°33 | 16°42 |
| S 6  | 16 56 54 | 15° 5'57 | 24° 8 | 7° 2  | 8°42  | 16°27 | 20° 9  | 21°54 | 7°44 | 14° 1  | 25°51 | 3°29  | 4°37 | 16°40 | 16°47 |
| S 7  | 17 0 51  | 16° 3'20 | 6°56  | 6°37  | 9°56  | 17° 8 | 20° 2  | 21°56 | 7°47 | 14° 2  | 25°52 | 3°D28 | 4°33 | 16°47 | 16°52 |
| M 8  | 17 4 47  | 17° 0'42 | 19°56 | 6°16  | 11°10 | 17°49 | 19°54  | 21°59 | 7°50 | 14° 2  | 25°53 | 3°29  | 4°30 | 16°53 | 16°57 |
| T 9  | 17 8 44  | 17°58'03 | 3°10  | 5°59  | 12°23 | 18°31 | 19°46  | 22° 1 | 7°52 | 14° 3  | 25°55 | 3°30  | 4°27 | 17° 0 | 17° 2 |
| W10  | 17 12 40 | 18°55'24 | 16°38 | 5°45  | 13°37 | 19°12 | 19°39  | 22° 4 | 7°55 | 14° 3  | 25°56 | 3°31  | 4°24 | 17° 7 | 17° 7 |
| T 11 | 17 16 37 | 19°52'44 | 0°19  | 5°36  | 14°51 | 19°53 | 19°31  | 22° 6 | 7°58 | 14° 4  | 25°57 | 3°32  | 4°21 | 17°14 | 17°12 |
| F 12 | 17 20 34 | 20°50'04 | 14°14 | 5°31  | 16° 4 | 20°34 | 19°23  | 22° 8 | 8° 1 | 14° 4  | 25°59 | 3°33  | 4°18 | 17°20 | 17°17 |
| S 13 | 17 24 30 | 21°47'23 | 28°21 | 5°D30 | 17°18 | 21°15 | 19°16  | 22°10 | 8° 3 | 14° 5  | 26° 0 | 3°R33 | 4°14 | 17°27 | 17°23 |
| S 14 | 17 28 27 | 22°44'42 | 12°40 | 5°33  | 18°31 | 21°56 | 19° 8  | 22°12 | 8° 6 | 14° 5  | 26° 1 | 3°32  | 4°11 | 17°34 | 17°28 |
| M15  | 17 32 23 | 23°42'00 | 27° 6 | 5°42  | 19°45 | 22°37 | 19° 1  | 22°14 | 8° 9 | 14° 6  | 26° 3 | 3°31  | 4° 8 | 17°40 | 17°33 |
| T 16 | 17 36 20 | 24°39'18 | 11°36 | 5°54  | 20°59 | 23°17 | 18°53  | 22°16 | 8°11 | 14° 7  | 26° 4 | 3°30  | 4° 5 | 17°47 | 17°38 |
| W17  | 17 40 16 | 25°36'36 | 26° 6 | 6°12  | 22°12 | 23°58 | 18°45  | 22°18 | 8°14 | 14° 7  | 26° 6 | 3°29  | 4° 2 | 17°54 | 17°43 |
| T 18 | 17 44 13 | 26°33'54 | 10°29 | 6°34  | 23°26 | 24°39 | 18°38  | 22°19 | 8°17 | 14° 8  | 26° 7 | 3°29  | 3°58 | 18° 1 | 17°48 |
| F 19 | 17 48 9  | 27°31'11 | 24°40 | 7° 0  | 24°40 | 25°20 | 18°30  | 22°21 | 8°19 | 14° 9  | 26° 9 | 3°28  | 3°55 | 18° 7 | 17°53 |
| S 20 | 17 52 6  | 28°28'28 | 8°35  | 7°31  | 25°54 | 26° 0 | 18°23  | 22°22 | 8°22 | 14°10  | 26°10 | 3°D28 | 3°52 | 18°14 | 17°58 |
| S 21 | 17 56 3  | 29°25'44 | 22°11 | 8° 7  | 27° 7 | 26°41 | 18°15  | 22°24 | 8°24 | 14°11  | 26°12 | 3°29  | 3°49 | 18°21 | 18° 3 |
| M22  | 17 59 59 | 0°23'00  | 5°25  | 8°47  | 28°21 | 27°22 | 18° 8  | 22°25 | 8°27 | 14°11  | 26°13 | 3°29  | 3°46 | 18°28 | 18° 8 |
| T 23 | 18 3 56  | 1°20'15  | 18°19 | 9°31  | 29°35 | 28° 2 | 18° 1  | 22°26 | 8°29 | 14°12  | 26°15 | 3°29  | 3°43 | 18°34 | 18°13 |
| W24  | 18 7 52  | 2°17'29  | 0°54  | 10°19 | 0°48  | 28°43 | 17°54  | 22°27 | 8°31 | 14°13  | 26°16 | 3°29  | 3°39 | 18°41 | 18°18 |
| T 25 | 18 11 49 | 3°14'43  | 13°13 | 11°12 | 2° 2  | 29°23 | 17°46  | 22°28 | 8°34 | 14°14  | 26°18 | 3°R29 | 3°36 | 18°48 | 18°23 |
| F 26 | 18 15 45 | 4°11'57  | 25°19 | 12° 8 | 3°16  | 0° 4  | 17°39  | 22°29 | 8°36 | 14°15  | 26°19 | 3°29  | 3°33 | 18°54 | 18°28 |
| S 27 | 18 19 42 | 5° 9'09  | 7°16  | 13° 9 | 4°29  | 0°44  | 17°32  | 22°30 | 8°38 | 14°16  | 26°21 | 3°D29 | 3°30 | 19° 1 | 18°33 |
| S 28 | 18 23 39 | 6° 6'22  | 19° 9 | 14°14 | 5°43  | 1°24  | 17°25  | 22°30 | 8°40 | 14°17  | 26°22 | 3°29  | 3°27 | 19° 8 | 18°38 |
| M29  | 18 27 35 | 7° 3'34  | 1°11  | 15°22 | 6°57  | 2° 5  | 17°18  | 22°31 | 8°43 | 14°18  | 26°24 | 3°30  | 3°24 | 19°15 | 18°43 |
| T 30 | 18 31 32 | 8° 0'45  | 13°11 | 16°11 | 8°11  | 2°45  | 17°12  | 22°31 | 8°45 | 14°19  | 26°25 | 3°R30 | 3°20 | 19°21 | 18°48 |

Delta T = 23.78 sec.

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# SWISS EPHEMERIS for the year 1936

JULY 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽        | ♀        | ♂        | ♂        | ♂        | ♂        | ♂       | ♂        | ♂        | ♂       | ♂       | ♂        | ♂        |
|------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|---------|----------|----------|
| W 1  | 18 35 28 | 8°57'56  | 25°11'10 | 17°11'51 | 9°24'24  | 3°25'25  | 17°R 5   | 22°31'31 | 8°47'47 | 14°20'20 | 26°27'27 | 3°31'31 | 3°17'17 | 19°28'28 | 18°11'53 |
| T 2  | 18 39 25 | 9°55'07  | 7°21'30  | 19°11'11 | 10°38'38 | 4°5'5    | 16°27'59 | 22°32'32 | 8°49'49 | 14°22'22 | 26°29'29 | 3°31'31 | 3°14'14 | 19°35'35 | 18°58'58 |
| F 3  | 18 43 21 | 10°52'18 | 20°5'5   | 20°35'35 | 11°52'52 | 4°45'45  | 16°52'52 | 22°32'32 | 8°51'51 | 14°23'23 | 26°30'30 | 3°32'32 | 3°11'11 | 19°41'41 | 19°3'3   |
| S 4  | 18 47 18 | 11°49'29 | 2°35'6   | 22°3'3   | 13°6'6   | 5°25'25  | 16°46'46 | 22°R32   | 8°53'53 | 14°24'24 | 26°32'32 | 3°R32   | 3°8'8   | 19°48'48 | 19°7'7   |
| S 5  | 18 51 14 | 12°46'39 | 16°4'4   | 23°34'34 | 14°19'19 | 6°6'6    | 16°40'40 | 22°32'32 | 8°55'55 | 14°25'25 | 26°33'33 | 3°32'32 | 3°4'4   | 19°55'55 | 19°12'12 |
| M 6  | 18 55 11 | 13°43'50 | 29°28'28 | 25°9'9   | 15°33'33 | 6°46'46  | 16°33'33 | 22°32'32 | 8°57'57 | 14°27'27 | 26°35'35 | 3°31'31 | 3°1'1   | 20°2'2   | 19°17'17 |
| T 7  | 18 59 8  | 14°41'00 | 13°37'7  | 26°47'47 | 16°47'47 | 7°26'26  | 16°27'27 | 22°31'31 | 8°59'59 | 14°28'28 | 26°37'37 | 3°30'30 | 2°58'58 | 20°8'8   | 19°22'22 |
| W 8  | 19 3 4   | 15°38'11 | 26°59'59 | 28°29'29 | 18°1'1   | 8°6'6    | 16°22'22 | 22°31'31 | 9°0'0   | 14°29'29 | 26°38'38 | 3°28'28 | 2°55'55 | 20°15'15 | 19°27'27 |
| T 9  | 19 7 1   | 16°35'23 | 11°11'1  | 0°14'14  | 19°14'14 | 8°45'45  | 16°16'16 | 22°30'30 | 9°2'2   | 14°30'30 | 26°40'40 | 3°27'27 | 2°52'52 | 20°22'22 | 19°31'31 |
| F 10 | 19 10 57 | 17°32'34 | 25°10'10 | 2°3'3    | 20°28'28 | 9°25'25  | 16°10'10 | 22°30'30 | 9°4'4   | 14°32'32 | 26°41'41 | 3°26'26 | 2°49'49 | 20°28'28 | 19°36'36 |
| S 11 | 19 14 54 | 18°29'46 | 9°17'23  | 3°54'54  | 21°42'42 | 10°5'5   | 16°5'5   | 22°29'29 | 9°6'6   | 14°33'33 | 26°43'43 | 3°25'25 | 2°45'45 | 20°35'35 | 19°41'41 |
| S 12 | 19 18 50 | 19°26'59 | 23°37'37 | 5°48'48  | 22°56'56 | 10°45'45 | 15°59'59 | 22°28'28 | 9°7'7   | 14°35'35 | 26°45'45 | 3°D25   | 2°42'42 | 20°42'42 | 19°45'45 |
| M13  | 19 22 47 | 20°24'12 | 7°35'30  | 7°45'45  | 24°10'10 | 11°25'25 | 15°54'54 | 22°28'28 | 9°9'9   | 14°36'36 | 26°46'46 | 3°25'25 | 2°39'39 | 20°49'49 | 19°50'50 |
| T 14 | 19 26 43 | 21°21'26 | 22°0'0   | 9°44'44  | 25°23'23 | 12°4'4   | 15°49'49 | 22°27'27 | 9°10'10 | 14°38'38 | 26°48'48 | 3°26'26 | 2°36'36 | 20°55'55 | 19°55'55 |
| W15  | 19 30 40 | 22°18'40 | 6°11'3   | 11°45'45 | 26°37'37 | 12°44'44 | 15°44'44 | 22°26'26 | 9°12'12 | 14°39'39 | 26°50'50 | 3°28'28 | 2°33'33 | 21°2'2   | 19°59'59 |
| T 16 | 19 34 37 | 23°15'55 | 19°59'59 | 13°48'48 | 27°51'51 | 13°24'24 | 15°39'39 | 22°24'24 | 9°13'13 | 14°41'41 | 26°51'51 | 3°29'29 | 2°30'30 | 21°9'9   | 20°4'4   |
| F 17 | 19 38 33 | 24°13'11 | 3°44'44  | 15°53'53 | 29°5'5   | 14°3'3   | 15°35'35 | 22°23'23 | 9°15'15 | 14°42'42 | 26°53'53 | 3°R29   | 2°26'26 | 21°15'15 | 20°8'8   |
| S 18 | 19 42 30 | 25°10'27 | 17°16'16 | 17°59'59 | 0°11'11  | 14°43'43 | 15°30'30 | 22°22'22 | 9°16'16 | 14°44'44 | 26°54'54 | 3°29'29 | 2°23'23 | 21°22'22 | 20°13'13 |
| S 19 | 19 46 26 | 26°7'44  | 0°13'34  | 20°6'6   | 1°33'33  | 15°23'23 | 15°26'26 | 22°20'20 | 9°18'18 | 14°45'45 | 26°56'56 | 3°27'27 | 2°20'20 | 21°29'29 | 20°17'17 |
| M20  | 19 50 23 | 27°5'01  | 13°37'37 | 22°14'14 | 2°47'47  | 16°2'2   | 15°22'22 | 22°19'19 | 9°19'19 | 14°47'47 | 26°58'58 | 3°24'24 | 2°17'17 | 21°36'36 | 20°22'22 |
| T 21 | 19 54 19 | 28°2'18  | 26°23'23 | 24°21'21 | 4°1'1    | 16°42'42 | 15°18'18 | 22°17'17 | 9°20'20 | 14°49'49 | 26°59'59 | 3°21'21 | 2°14'14 | 21°42'42 | 20°26'26 |
| W22  | 19 58 16 | 28°59'36 | 8°17'54  | 26°29'29 | 5°14'14  | 17°21'21 | 15°14'14 | 22°15'15 | 9°21'21 | 14°50'50 | 27°1'1   | 3°17'17 | 2°10'10 | 21°49'49 | 20°30'30 |
| T 23 | 20 2 12  | 29°56'54 | 21°10'10 | 28°37'37 | 6°28'28  | 18°1'1   | 15°11'11 | 22°14'14 | 9°22'22 | 14°52'52 | 27°3'3   | 3°13'13 | 2°7'7   | 21°56'56 | 20°35'35 |
| F 24 | 20 6 9   | 0°15'41  | 3°15'15  | 0°14'44  | 7°42'42  | 18°40'40 | 15°7'7   | 22°12'12 | 9°23'23 | 14°54'54 | 27°4'4   | 3°9'9   | 2°4'4   | 22°3'3   | 20°39'39 |
| S 25 | 20 10 6  | 1°51'32  | 15°12'12 | 2°51'51  | 8°56'56  | 19°19'19 | 15°4'4   | 22°10'10 | 9°25'25 | 14°55'55 | 27°6'6   | 3°7'7   | 2°1'1   | 22°9'9   | 20°43'43 |
| S 26 | 20 14 2  | 2°48'51  | 27°5'5   | 4°56'56  | 10°10'10 | 19°59'59 | 15°1'1   | 22°8'8   | 9°26'26 | 14°57'57 | 27°8'8   | 3°5'5   | 1°58'58 | 22°16'16 | 20°47'47 |
| M27  | 20 17 59 | 3°46'11  | 8°11'58  | 7°1'1    | 11°24'24 | 20°38'38 | 14°58'58 | 22°5'5   | 9°27'27 | 14°59'59 | 27°9'9   | 3°D 5   | 1°55'55 | 22°23'23 | 20°51'51 |
| T 28 | 20 21 55 | 4°43'31  | 20°57'57 | 9°4'4    | 12°38'38 | 21°17'17 | 14°55'55 | 22°3'3   | 9°27'27 | 15°1'1   | 27°11'11 | 3°6'6   | 1°51'51 | 22°29'29 | 20°56'56 |
| W29  | 20 25 52 | 5°40'52  | 3°17'6   | 11°6'6   | 13°52'52 | 21°56'56 | 14°52'52 | 22°1'1   | 9°28'28 | 15°2'2   | 27°12'12 | 3°8'8   | 1°48'48 | 22°36'36 | 21°0'0   |
| T 30 | 20 29 48 | 6°38'14  | 15°29'29 | 13°7'7   | 15°6'6   | 22°35'35 | 14°50'50 | 21°58'58 | 9°29'29 | 15°4'4   | 27°14'14 | 3°10'10 | 1°45'45 | 22°43'43 | 21°4'4   |
| F 31 | 20 33 45 | 7°13'53  | 28°11'11 | 15°16'16 | 16°12'20 | 23°15'15 | 14°48'48 | 21°56'56 | 9°30'30 | 15°6'6   | 27°16'16 | 3°R11   | 1°42'42 | 22°50'50 | 21°11'11 |

Delta T = 23.80 sec.

AUGUST 1936

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♀      | ♂      | ♂      | ♂      | ♂     | ♂      | ♂     | ♂     | ♂    | ♂     | ♂     |
|------|----------|----------|-------|-------|--------|--------|--------|--------|-------|--------|-------|-------|------|-------|-------|
| S 1  | 20 37 41 | 8♠32'59  | 11♠13 | 17♠ 4 | 17♠34  | 23♠54  | 14°R46 | 21°R53 | 9♠31  | 15♠ 8  | 27♠17 | 3°R10 | 1♠39 | 22♠56 | 21♠12 |
| S 2  | 20 41 38 | 9°30'22  | 24°38 | 19° 0 | 18°48  | 24°33  | 14°44  | 21°50  | 9°31  | 15°10  | 27°19 | 3♠ 9  | 1°36 | 23° 3 | 21°16 |
| M 3  | 20 45 35 | 10°27'46 | 8°25  | 20°55 | 20° 2  | 25°12  | 14°42  | 21°48  | 9°32  | 15°12  | 27°21 | 3° 5  | 1°32 | 23°10 | 21°19 |
| T 4  | 20 49 31 | 11°25'11 | 22°30 | 22°48 | 21°16  | 25°51  | 14°41  | 21°45  | 9°32  | 15°13  | 27°22 | 3° 0  | 1°29 | 23°16 | 21°23 |
| W 5  | 20 53 28 | 12°22'38 | 6°50  | 24°39 | 22°29  | 26°30  | 14°39  | 21°42  | 9°33  | 15°15  | 27°24 | 2°55  | 1°26 | 23°23 | 21°27 |
| T 6  | 20 57 24 | 13°20'05 | 21°19 | 26°29 | 23°43  | 27° 9  | 14°38  | 21°39  | 9°33  | 15°17  | 27°25 | 2°49  | 1°23 | 23°30 | 21°31 |
| F 7  | 21 1 21  | 14°17'33 | 5°50  | 28°18 | 24°57  | 27°48  | 14°37  | 21°36  | 9°34  | 15°19  | 27°27 | 2°43  | 1°20 | 23°36 | 21°34 |
| S 8  | 21 5 17  | 15°15'03 | 20°18 | 0° 4  | 26°11  | 28°27  | 14°37  | 21°32  | 9°34  | 15°21  | 27°29 | 2°39  | 1°16 | 23°43 | 21°38 |
| S 9  | 21 9 14  | 16°12'34 | 4♠39  | 1°50  | 27°25  | 29° 5  | 14°36  | 21°29  | 9°35  | 15°23  | 27°30 | 2°37  | 1°13 | 23°50 | 21°42 |
| M10  | 21 13 10 | 17°10'07 | 18°49 | 3°33  | 28°39  | 29°44  | 14°36  | 21°26  | 9°35  | 15°25  | 27°32 | 2°D36 | 1°10 | 23°57 | 21°45 |
| T 11 | 21 17 7  | 18° 7'41 | 2♠47  | 5°16  | 29°53  | 0♠23   | 14°35  | 21°22  | 9°35  | 15°27  | 27°33 | 2°37  | 1° 7 | 24° 3 | 21°49 |
| W12  | 21 21 4  | 19° 5'16 | 16°32 | 6°56  | 1° 7   | 1° 2   | 14°D35 | 21°19  | 9°35  | 15°29  | 27°35 | 2°38  | 1° 4 | 24°10 | 21°52 |
| T 13 | 21 25 0  | 20° 2'54 | 0♠ 5  | 8°35  | 2°21   | 1°41   | 14°36  | 21°15  | 9°35  | 15°31  | 27°36 | 2°R39 | 1° 1 | 24°17 | 21°55 |
| F 14 | 21 28 57 | 21° 0'32 | 13°25 | 10°13 | 3°35   | 2°19   | 14°36  | 21°12  | 9°35  | 15°33  | 27°38 | 2°39  | 0°57 | 24°23 | 21°59 |
| S 15 | 21 32 53 | 21°58'12 | 26°34 | 11°49 | 4°49   | 2°58   | 14°36  | 21° 8  | 9°R36 | 15°35  | 27°39 | 2°36  | 0°54 | 24°30 | 22° 2 |
| S 16 | 21 36 50 | 22°55'53 | 9♠31  | 13°24 | 6° 3   | 3°37   | 14°37  | 21° 4  | 9°35  | 15°38  | 27°41 | 2°31  | 0°51 | 24°37 | 22° 5 |
| M17  | 21 40 46 | 23°53'36 | 22°16 | 14°57 | 7°17   | 4°15   | 14°38  | 21° 1  | 9°35  | 15°40  | 27°42 | 2°24  | 0°48 | 24°44 | 22° 8 |
| T 18 | 21 44 43 | 24°51'20 | 4° 49 | 16°29 | 8°31   | 4°54   | 14°39  | 20°57  | 9°35  | 15°42  | 27°44 | 2°16  | 0°45 | 24°50 | 22°11 |
| W19  | 21 48 39 | 25°49'05 | 17°11 | 17°59 | 9°45   | 5°32   | 14°40  | 20°53  | 9°35  | 15°44  | 27°45 | 2° 6  | 0°42 | 24°57 | 22°14 |
| T 20 | 21 52 36 | 26°46'51 | 29°21 | 19°27 | 10°59  | 6°11   | 14°42  | 20°49  | 9°35  | 15°46  | 27°47 | 1°56  | 0°38 | 25° 4 | 22°17 |
| F 21 | 21 56 33 | 27°44'39 | 11♠23 | 20°54 | 12°13  | 6°50   | 14°43  | 20°45  | 9°35  | 15°48  | 27°48 | 1°47  | 0°35 | 25°10 | 22°20 |
| S 22 | 22 0 29  | 28°42'28 | 23°17 | 22°20 | 13°27  | 7°28   | 14°45  | 20°41  | 9°34  | 15°50  | 27°50 | 1°39  | 0°32 | 25°17 | 22°23 |
| S 23 | 22 4 26  | 29°40'18 | 5♠ 8  | 23°44 | 14°41  | 8° 6   | 14°47  | 20°37  | 9°34  | 15°52  | 27°51 | 1°34  | 0°29 | 25°24 | 22°26 |
| M24  | 22 8 22  | 0° 38'09 | 16°59 | 25° 7 | 15°55  | 8°45   | 14°50  | 20°33  | 9°34  | 15°55  | 27°53 | 1°31  | 0°26 | 25°31 | 22°29 |
| T 25 | 22 12 19 | 1°36'02  | 28°55 | 26°27 | 17° 9  | 9°23   | 14°52  | 20°28  | 9°33  | 15°57  | 27°54 | 1°D30 | 0°22 | 25°37 | 22°31 |
| W26  | 22 16 15 | 2°33'56  | 11° 2 | 27°46 | 18°23  | 10° 2  | 14°54  | 20°24  | 9°33  | 15°59  | 27°56 | 1°30  | 0°19 | 25°44 | 22°34 |
| T 27 | 22 20 12 | 3°31'51  | 23°23 | 29° 4 | 19°37  | 10°40  | 14°57  | 20°20  | 9°32  | 16° 1  | 27°57 | 1°31  | 0°16 | 25°51 | 22°36 |
| F 28 | 22 24 8  | 4°29'48  | 6♠ 5  | 0°20  | 20°51  | 11°18  | 15° 0  | 20°16  | 9°31  | 16° 3  | 27°58 | 1°R31 | 0°13 | 25°57 | 22°39 |
| S 29 | 22 28 5  | 5°27'46  | 19°12 | 1°34  | 22° 5  | 11°56  | 15° 3  | 20°11  | 9°31  | 16° 5  | 28° 0 | 1°29  | 0°10 | 26° 4 | 22°41 |
| S 30 | 22 32 2  | 6°25'45  | 2°45  | 2°46  | 23°19  | 12°35  | 15° 6  | 20° 7  | 9°30  | 16° 8  | 28° 1 | 1°26  | 0° 7 | 26°11 | 22°44 |
| M31  | 22 35 58 | 7° 23'45 | 16°45 | 3♠56  | 24° 33 | 13° 13 | 15° 10 | 20° 8  | 9♠29  | 16° 10 | 28° 2 | 1♠20  | 0♠ 3 | 26°18 | 22°46 |

# SWISS EPHEMERIS for the year 1936

SEPTEMBER 1936

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                     | ♀                  | ♂                   | ♂                   | ♂                   | ♂                   | ♂                  | ♂                   | ♂                   | ♂                   | ♂                   | ♂                   | ♂                   |
|------|----------|-----------------------|-----------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| T 1  | 22 39 55 | 8 <sup>h</sup> 21'48" | 1 <sup>h</sup> 10'    | 5 <sup>h</sup> 4'  | 25 <sup>h</sup> 47' | 13 <sup>h</sup> 51' | 15 <sup>h</sup> 14' | 19 <sup>h</sup> 58' | 9 <sup>h</sup> 28' | 16 <sup>h</sup> 12' | 28 <sup>h</sup> 4'  | 1 <sup>h</sup> 12'  | 0 <sup>h</sup> 3'   | 26 <sup>h</sup> 24' | 22 <sup>h</sup> 48' |
| W 2  | 22 43 51 | 9 <sup>h</sup> 19'51" | 15°53'                | 6° 9'              | 27° 1'              | 14°29'              | 15°17'              | 19 <sup>h</sup> 53' | 9 <sup>h</sup> 28' | 16°14'              | 28° 5'              | 1 <sup>h</sup> 3'   | 29 <sup>h</sup> 57' | 26°31'              | 22°50'              |
| T 3  | 22 47 48 | 10°17'57"             | 0 <sup>h</sup> 17'57" | 7°13'              | 28°15'              | 15° 7'              | 15°21'              | 19°49'              | 9°27'              | 16°16'              | 28° 6'              | 0°52'               | 29°54'              | 26°38'              | 22°53'              |
| F 4  | 22 51 44 | 11°16'04"             | 15°45'                | 8°14'              | 29°29'              | 15°45'              | 15°25'              | 19°44'              | 9°26'              | 16°19'              | 28° 8'              | 0°42'               | 29°51'              | 26°44'              | 22°55'              |
| S 5  | 22 55 41 | 12°14'13"             | 0 <sup>h</sup> 34'    | 9°13'              | 0 <sup>h</sup> 43'  | 16°23'              | 15°30'              | 19°40'              | 9°25'              | 16°21'              | 28° 9'              | 0°35'               | 29°47'              | 26°51'              | 22°56'              |
| S 6  | 22 59 37 | 13°12'24"             | 15°10'                | 10° 9'             | 1°57'               | 17° 2'              | 15°34'              | 19°35'              | 9°24'              | 16°23'              | 28°10'              | 0°30'               | 29°44'              | 26°58'              | 22°58'              |
| M 7  | 23 3 34  | 14°10'37"             | 29°28'                | 11° 2'             | 3°11'               | 17°40'              | 15°39'              | 19°31'              | 9°23'              | 16°25'              | 28°11'              | 0°27'               | 29°41'              | 27° 4'              | 23° 0'              |
| T 8  | 23 7 31  | 15° 8'53"             | 13 <sup>h</sup> 26'   | 11°52'             | 4°25'               | 18°18'              | 15°44'              | 19°26'              | 9°22'              | 16°28'              | 28°12'              | 0°D26'              | 29°38'              | 27°11'              | 23° 2'              |
| W 9  | 23 11 27 | 16° 7'10"             | 27° 3'                | 12°38'             | 5°39'               | 18°56'              | 15°48'              | 19°22'              | 9°20'              | 16°30'              | 28°14'              | 0°R27'              | 29°35'              | 27°18'              | 23° 4'              |
| T 10 | 23 15 24 | 17° 5'30"             | 10 <sup>h</sup> 23'   | 13°22'             | 6°53'               | 19°33'              | 15°54'              | 19°17'              | 9°19'              | 16°32'              | 28°15'              | 0°26'               | 29°32'              | 27°25'              | 23° 5'              |
| F 11 | 23 19 20 | 18° 3'52"             | 23°26'                | 14° 1'             | 8° 7'               | 20°11'              | 15°59'              | 19°12'              | 9°18'              | 16°34'              | 28°16'              | 0°24'               | 29°28'              | 27°31'              | 23° 7'              |
| S 12 | 23 23 17 | 19° 2'15"             | 6 <sup>h</sup> 17'    | 14°37'             | 9°21'               | 20°49'              | 16° 4'              | 19° 8'              | 9°17'              | 16°36'              | 28°17'              | 0°20'               | 29°25'              | 27°38'              | 23° 8'              |
| S 13 | 23 27 13 | 20° 0'41"             | 18°55'                | 15° 8'             | 10°35'              | 21°27'              | 16°10'              | 19° 3'              | 9°15'              | 16°39'              | 28°18'              | 0°13'               | 29°22'              | 27°45'              | 23°10'              |
| M14  | 23 31 10 | 20°59'09"             | 1 <sup>h</sup> 17'23" | 15°35'             | 11°49'              | 22° 5'              | 16°16'              | 18°58'              | 9°14'              | 16°41'              | 28°19'              | 0° 3'               | 29°19'              | 27°51'              | 23°11'              |
| T 15 | 23 35 6  | 21°57'38"             | 13°42'                | 15°56'             | 13° 2'              | 22°43'              | 16°22'              | 18°54'              | 9°13'              | 16°43'              | 28°20'              | 29 <sup>h</sup> 50' | 29°16'              | 27°58'              | 23°12'              |
| W16  | 23 39 3  | 22°56'10"             | 25°52'                | 16°12'             | 14°16'              | 23°21'              | 16°28'              | 18°49'              | 9°11'              | 16°45'              | 28°21'              | 29°37'              | 29°13'              | 28° 5'              | 23°13'              |
| T 17 | 23 42 59 | 23°54'43"             | 7 <sup>h</sup> 55'    | 16°23'             | 15°30'              | 23°58'              | 16°34'              | 18°45'              | 9°10'              | 16°48'              | 28°22'              | 29°23'              | 29° 9'              | 28°12'              | 23°15'              |
| F 18 | 23 46 56 | 24°53'18"             | 19°51'                | 16°R28'            | 16°44'              | 24°36'              | 16°40'              | 18°40'              | 9° 8'              | 16°50'              | 28°24'              | 29° 9'              | 29° 6'              | 28°18'              | 23°16'              |
| S 19 | 23 50 53 | 25°51'56"             | 1 <sup>h</sup> 42'    | 16°26'             | 17°58'              | 25°14'              | 16°47'              | 18°35'              | 9° 7'              | 16°52'              | 28°25'              | 28°58'              | 29° 3'              | 28°25'              | 23°17'              |
| S 20 | 23 54 49 | 26°50'35"             | 13°31'                | 16°17'             | 19°12'              | 25°51'              | 16°53'              | 18°31'              | 9° 5'              | 16°54'              | 28°25'              | 28°50'              | 29° 0'              | 28°32'              | 23°17'              |
| M21  | 23 58 46 | 27°49'15"             | 25°21'                | 16° 2'             | 20°26'              | 26°29'              | 17° 0'              | 18°26'              | 9° 3'              | 16°56'              | 28°26'              | 28°44'              | 28°57'              | 28°38'              | 23°18'              |
| T 22 | 0 2 42   | 28°47'58"             | 7 <sup>h</sup> 15'    | 15°40'             | 21°40'              | 27° 7'              | 17° 7'              | 18°22'              | 9° 2'              | 16°59'              | 28°27'              | 28°41'              | 28°53'              | 28°45'              | 23°19'              |
| W23  | 0 6 39   | 29°46'42"             | 19°19'                | 15°10'             | 22°54'              | 27°44'              | 17°14'              | 18°17'              | 9° 0'              | 17° 1'              | 28°28'              | 28°40'              | 28°50'              | 28°52'              | 23°20'              |
| T 24 | 0 10 35  | 0 <sup>h</sup> 45'28" | 1 <sup>h</sup> 37'    | 14°33'             | 24° 8'              | 28°22'              | 17°22'              | 18°13'              | 8°58'              | 17° 3'              | 28°29'              | 28°40'              | 28°47'              | 28°58'              | 23°20'              |
| F 25 | 0 14 32  | 1°44'16"              | 14°15'                | 13°49'             | 25°21'              | 28°59'              | 17°29'              | 18° 8'              | 8°56'              | 17° 5'              | 28°30'              | 28°39'              | 28°44'              | 29° 5'              | 23°21'              |
| S 26 | 0 18 28  | 2°43'05"              | 27°17'                | 12°58'             | 26°35'              | 29°37'              | 17°36'              | 18° 4'              | 8°54'              | 17° 7'              | 28°31'              | 28°38'              | 28°41'              | 29°12'              | 23°21'              |
| S 27 | 0 22 25  | 3°41'56"              | 10 <sup>h</sup> 48'   | 12° 2'             | 27°49'              | 0 <sup>h</sup> 14'  | 17°44'              | 18° 0'              | 8°53'              | 17° 9'              | 28°32'              | 28°34'              | 28°38'              | 29°19'              | 23°22'              |
| M28  | 0 26 22  | 4°40'49"              | 24°49'                | 11° 1'             | 29° 3'              | 0°52'               | 17°52'              | 17°55'              | 8°51'              | 17°12'              | 28°33'              | 28°28'              | 28°34'              | 29°25'              | 23°22'              |
| T 29 | 0 30 18  | 5°39'44"              | 9 <sup>h</sup> 20'    | 9°55'              | 0 <sup>h</sup> 17'  | 1°29'               | 18° 0'              | 17°51'              | 8°49'              | 17°14'              | 28°33'              | 28°19'              | 28°31'              | 29°32'              | 23°22'              |
| W30  | 0 34 15  | 6 <sup>h</sup> 38'40" | 24 <sup>h</sup> 14'   | 8 <sup>h</sup> 48' | 1 <sup>h</sup> 30'  | 2 <sup>h</sup> 11'  | 18 <sup>h</sup> 8'  | 17 <sup>h</sup> 47' | 8 <sup>h</sup> 47' | 17 <sup>h</sup> 16' | 28 <sup>h</sup> 34' | 28 <sup>h</sup> 8'  | 28 <sup>h</sup> 28' | 29 <sup>h</sup> 39' | 23 <sup>h</sup> 22' |

Delta T = 23.84 sec.

OCTOBER 1936

00:00 UT

| Day  | Sid.t   | ☉                     | ☽                   | ♀                   | ♂                  | ♂                   | ♂                   | ♂                   | ♂                  | ♂                   | ♂                   | ♂                   | ♂                   | ♂                   | ♂                   |
|------|---------|-----------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| T 1  | 0 38 11 | 7 <sup>h</sup> 37'39" | 9 <sup>h</sup> 24'  | 7°R39'              | 2 <sup>h</sup> 44' | 2 <sup>h</sup> 44'  | 18 <sup>h</sup> 16' | 17°R43'             | 8°R45'             | 17 <sup>h</sup> 18' | 28 <sup>h</sup> 35' | 27°R57'             | 28 <sup>h</sup> 25' | 29 <sup>h</sup> 45' | 23°R22'             |
| F 2  | 0 42 8  | 8°36'39"              | 24°40'              | 6 <sup>h</sup> 32'  | 3°58'              | 3°21'               | 18°24'              | 17 <sup>h</sup> 39' | 8 <sup>h</sup> 43' | 17°20'              | 28°36'              | 27 <sup>h</sup> 46' | 28°22'              | 29°52'              | 23 <sup>h</sup> 22' |
| S 3  | 0 46 4  | 9°35'42"              | 9 <sup>h</sup> 50'  | 5°27'               | 5°12'              | 3°58'               | 18°33'              | 17°34'              | 8°41'              | 17°22'              | 28°36'              | 27°38'              | 28°19'              | 29°59'              | 23°22'              |
| S 4  | 0 50 1  | 10°34'47"             | 24°44'              | 4°27'               | 6°25'              | 4°36'               | 18°41'              | 17°30'              | 8°39'              | 17°24'              | 28°37'              | 27°32'              | 28°15'              | 0 <sup>h</sup> 6'   | 23°22'              |
| M 5  | 0 53 57 | 11°33'54"             | 9 <sup>h</sup> 17'  | 3°34'               | 7°39'              | 5°13'               | 18°50'              | 17°26'              | 8°37'              | 17°26'              | 28°38'              | 27°29'              | 28°12'              | 0°12'               | 23°22'              |
| T 6  | 0 57 54 | 12°33'04"             | 23°24'              | 2°48'               | 8°53'              | 5°50'               | 18°59'              | 17°22'              | 8°34'              | 17°28'              | 28°38'              | 27°D28'             | 28° 9'              | 0°19'               | 23°21'              |
| W 7  | 1 1 51  | 13°32'16"             | 7 <sup>h</sup> 26'  | 2°11'               | 10° 7'             | 6°27'               | 19° 8'              | 17°18'              | 8°32'              | 17°31'              | 28°39'              | 27°R28'             | 28° 6'              | 0°26'               | 23°21'              |
| T 8  | 1 5 47  | 14°31'30"             | 20°24'              | 1°44'               | 11°20'             | 7° 5'               | 19°17'              | 17°15'              | 8°30'              | 17°33'              | 28°39'              | 27°28'              | 28° 3'              | 0°32'               | 23°21'              |
| F 9  | 1 9 44  | 15°30'47"             | 3 <sup>h</sup> 21'  | 1°28'               | 12°34'             | 7°42'               | 19°26'              | 17°11'              | 8°28'              | 17°35'              | 28°40'              | 27°27'              | 27°59'              | 0°39'               | 23°20'              |
| S 10 | 1 13 40 | 16°30'06"             | 16° 1'              | 1°D22'              | 13°48'             | 8°19'               | 19°35'              | 17° 7'              | 8°26'              | 17°37'              | 28°40'              | 27°23'              | 27°56'              | 0°46'               | 23°19'              |
| S 11 | 1 17 37 | 17°29'27"             | 28°27'              | 1°28'               | 15° 1'             | 8°56'               | 19°45'              | 17° 3'              | 8°23'              | 17°39'              | 28°41'              | 27°17'              | 27°53'              | 0°52'               | 23°19'              |
| M12  | 1 21 33 | 18°28'50"             | 10 <sup>h</sup> 42' | 1°44'               | 16°15'             | 9°33'               | 19°54'              | 17° 0'              | 8°21'              | 17°41'              | 28°41'              | 27° 8'              | 27°50'              | 0°59'               | 23°18'              |
| T 13 | 1 25 30 | 19°28'16"             | 22°49'              | 2°10'               | 17°29'             | 10°10'              | 20° 4'              | 16°56'              | 8°19'              | 17°43'              | 28°42'              | 26°57'              | 27°47'              | 1° 6'               | 23°17'              |
| W14  | 1 29 26 | 20°27'43"             | 4 <sup>h</sup> 50'  | 2°45'               | 18°42'             | 10°47'              | 20°14'              | 16°53'              | 8°17'              | 17°44'              | 28°42'              | 26°44'              | 27°44'              | 1°13'               | 23°16'              |
| T 15 | 1 33 23 | 21°27'13"             | 16°46'              | 3°30'               | 19°56'             | 11°24'              | 20°24'              | 16°49'              | 8°14'              | 17°46'              | 28°43'              | 26°31'              | 27°40'              | 1°19'               | 23°15'              |
| F 16 | 1 37 20 | 22°26'45"             | 28°38'              | 4°22'               | 21°10'             | 12° 1'              | 20°34'              | 16°46'              | 8°12'              | 17°48'              | 28°43'              | 26°19'              | 27°37'              | 1°26'               | 23°14'              |
| S 17 | 1 41 16 | 23°26'19"             | 10 <sup>h</sup> 28' | 5°22'               | 22°23'             | 12°38'              | 20°44'              | 16°43'              | 8°10'              | 17°50'              | 28°43'              | 26° 9'              | 27°34'              | 1°33'               | 23°13'              |
| S 18 | 1 45 13 | 24°25'55"             | 22°17'              | 6°29'               | 23°37'             | 13°15'              | 20°54'              | 16°40'              | 8° 7'              | 17°52'              | 28°44'              | 26° 1'              | 27°31'              | 1°39'               | 23°12'              |
| M19  | 1 49 9  | 25°25'33"             | 4 <sup>h</sup> 9'   | 7°41'               | 24°50'             | 13°52'              | 21° 4'              | 16°37'              | 8° 5'              | 17°54'              | 28°44'              | 25°56'              | 27°28'              | 1°46'               | 23°10'              |
| T 20 | 1 53 6  | 26°25'13"             | 16° 5'              | 8°58'               | 26° 4'             | 14°28'              | 21°15'              | 16°34'              | 8° 2'              | 17°56'              | 28°44'              | 25°53'              | 27°24'              | 1°53'               | 23° 9'              |
| W21  | 1 57 2  | 27°24'55"             | 28°10'              | 10°19'              | 27°18'             | 15° 5'              | 21°25'              | 16°31'              | 8° 0'              | 17°58'              | 28°45'              | 25°D53'             | 27°21'              | 1°59'               | 23° 7'              |
| T 22 | 2 0 59  | 28°24'38"             | 10 <sup>h</sup> 32' | 11°44'              | 28°31'             | 15°42'              | 21°36'              | 16°28'              | 7°58'              | 17°59'              | 28°45'              | 25°53'              | 27°18'              | 2° 6'               | 23° 6'              |
| F 23 | 2 4 55  | 29°24'23"             | 23° 2'              | 13°12'              | 29°45'             | 16°19'              | 21°46'              | 16°25'              | 7°55'              | 18° 1'              | 28°45'              | 25°54'              | 27°15'              | 2°13'               | 23° 4'              |
| S 24 | 2 8 52  | 0 <sup>h</sup> 24'10" | 5 <sup>h</sup> 59'  | 14°43'              | 0 <sup>h</sup> 58' | 16°55'              | 21°57'              | 16°23'              | 7°53'              | 18° 3'              | 28°45'              | 25°R54'             | 27°12'              | 2°19'               | 23° 3'              |
| S 25 | 2 12 49 | 1°23'58"              | 19°22'              | 16°16'              | 2°12'              | 17°32'              | 22° 8'              | 16°20'              | 7°50'              | 18° 5'              | 28°45'              | 25°53'              | 27° 9'              | 2°26'               | 23° 1'              |
| M26  | 2 16 45 | 2°23'48"              | 3 <sup>h</sup> 15'  | 17°50'              | 3°25'              | 18° 9'              | 22°19'              | 16°17'              | 7°48'              | 18° 6'              | 28°45'              | 25°49'              | 27° 5'              | 2°33'               | 22°59'              |
| T 27 | 2 20 42 | 3°23'40"              | 17°36'              | 19°26'              | 4°39'              | 18°45'              | 22°30'              | 16°15'              | 7°45'              | 18° 8'              | 28°46'              | 25°43'              | 27° 2'              | 2°40'               | 22°57'              |
| W28  | 2 24 38 | 4°23'33"              | 2 <sup>h</sup> 24'  | 21° 3'              | 5°52'              | 19°22'              | 22°41'              | 16°13'              | 7°43'              | 18°10'              | 28°46'              | 25°36'              | 26°59'              | 2°46'               | 22°55'              |
| T 29 | 2 28 35 | 5°23'28"              | 17°32'              | 22°40'              | 7° 5'              | 19°58'              | 22°52'              | 16°11'              | 7°40'              | 18°11'              | 28°46'              | 25°28'              | 26°56'              | 2°53'               | 22°53'              |
| F 30 | 2 32 31 | 6°23'25"              | 2 <sup>h</sup> 50'  | 24°18'              | 8°19'              | 20°35'              | 23° 4'              | 16° 8'              | 7°38'              | 18°13'              | 28°R46'             | 25°20'              | 26°53'              | 3° 0'               | 22°51'              |
| S 31 | 2 36 28 | 7 <sup>h</sup> 23'24" | 18 <sup>h</sup> 8'  | 25 <sup>h</sup> 57' | 9 <sup>h</sup> 32' | 21 <sup>h</sup> 11' | 23 <sup>h</sup> 15' | 16 <sup>h</sup> 6'  | 7 <sup>h</sup> 35' | 18 <sup>h</sup> 15' | 28 <sup>h</sup> 46' | 25 <sup>h</sup> 14' | 26 <sup>h</sup> 50' | 3 <sup>h</sup> 6'   | 22 <sup>h</sup> 49' |

Delta T = 23.86 sec.

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# SWISS EPHEMERIS for the year 1936

NOVEMBER 1936

00:00 UT

| Day  | Sid.t   | ☉        | ☽      | ♀     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂     | ♂      | ♂      | ♂     | ♂    | ♂      |
|------|---------|----------|--------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|------|--------|
| S 1  | 2 40 24 | 8♈23'25  | 3♈14   | 27♈36 | 10♈46 | 21♈48 | 23♈26 | 16°R 4 | 7°R33 | 18♈16 | 28°R46 | 25°R10 | 26♈46 | 3♈13 | 22°R47 |
| M 2  | 2 44 21 | 9°23'28  | 18° 1  | 29°15 | 11°59 | 22°24 | 23°38 | 16°H 3 | 7°B31 | 18°18 | 28°B46 | 25°D 8 | 26°43 | 3°20 | 22°H45 |
| T 3  | 2 48 18 | 10°23'33 | 2°21   | 0♈54  | 13°12 | 23° 0 | 23°50 | 16° 1  | 7°28  | 18°19 | 28°46  | 25°D 8 | 26°40 | 3°26 | 22°42  |
| W 4  | 2 52 14 | 11°23'41 | 16°14  | 2°33  | 14°26 | 23°37 | 24° 1 | 15°59  | 7°26  | 18°21 | 28°45  | 25°10  | 26°37 | 3°33 | 22°40  |
| T 5  | 2 56 11 | 12°23'50 | 29°40  | 4°11  | 15°39 | 24°13 | 24°13 | 15°58  | 7°23  | 18°22 | 28°45  | 25°11  | 26°34 | 3°40 | 22°38  |
| F 6  | 3 0 7   | 13°24'01 | 12♈40  | 5°50  | 16°52 | 24°49 | 24°25 | 15°56  | 7°21  | 18°24 | 28°45  | 25°R12 | 26°30 | 3°47 | 22°35  |
| S 7  | 3 4 4   | 14°24'15 | 25°20  | 7°28  | 18° 5 | 25°25 | 24°37 | 15°55  | 7°18  | 18°25 | 28°45  | 25°11  | 26°27 | 3°53 | 22°33  |
| S 8  | 3 8 0   | 15°24'30 | 7♈42   | 9° 7  | 19°19 | 26° 2 | 24°49 | 15°54  | 7°16  | 18°27 | 28°45  | 25° 8  | 26°24 | 4° 0 | 22°30  |
| M 9  | 3 11 57 | 16°24'47 | 19°52  | 10°44 | 20°32 | 26°38 | 25° 1 | 15°53  | 7°13  | 18°28 | 28°44  | 25° 4  | 26°21 | 4° 7 | 22°27  |
| T 10 | 3 15 53 | 17°25'07 | 1♈52   | 12°22 | 21°45 | 27°14 | 25°13 | 15°52  | 7°11  | 18°29 | 28°44  | 24°58  | 26°18 | 4°13 | 22°25  |
| W 11 | 3 19 50 | 18°25'28 | 13°47  | 13°59 | 22°58 | 27°50 | 25°25 | 15°51  | 7° 8  | 18°31 | 28°44  | 24°52  | 26°15 | 4°20 | 22°22  |
| T 12 | 3 23 46 | 19°25'51 | 25°38  | 15°36 | 24°11 | 28°26 | 25°38 | 15°50  | 7° 6  | 18°32 | 28°44  | 24°45  | 26°11 | 4°27 | 22°19  |
| F 13 | 3 27 43 | 20°26'16 | 7♈28   | 17°13 | 25°24 | 29° 2 | 25°50 | 15°49  | 7° 4  | 18°33 | 28°43  | 24°38  | 26° 8 | 4°33 | 22°16  |
| S 14 | 3 31 40 | 21°26'42 | 19°19  | 18°50 | 26°37 | 29°38 | 26° 2 | 15°48  | 7° 1  | 18°35 | 28°43  | 24°32  | 26° 5 | 4°40 | 22°13  |
| S 15 | 3 35 36 | 22°27'11 | 1♈13   | 20°26 | 27°50 | 0♈14  | 26°15 | 15°48  | 6°59  | 18°36 | 28°43  | 24°28  | 26° 2 | 4°47 | 22°10  |
| M 16 | 3 39 33 | 23°27'41 | 13°11  | 22° 2 | 29° 3 | 0°50  | 26°27 | 15°47  | 6°57  | 18°37 | 28°42  | 24°26  | 25°59 | 4°53 | 22° 7  |
| T 17 | 3 43 29 | 24°28'12 | 25°16  | 23°37 | 0♈16  | 1°25  | 26°40 | 15°47  | 6°54  | 18°38 | 28°42  | 24°D25 | 25°56 | 5° 0 | 22° 4  |
| W 18 | 3 47 26 | 25°28'45 | 7♈29   | 25°13 | 1°29  | 2° 1  | 26°53 | 15°47  | 6°52  | 18°39 | 28°41  | 24°26  | 25°52 | 5° 7 | 22° 1  |
| T 19 | 3 51 22 | 26°29'19 | 19°54  | 26°48 | 2°42  | 2°37  | 27° 5 | 15°D47 | 6°50  | 18°40 | 28°41  | 24°28  | 25°49 | 5°14 | 21°58  |
| F 20 | 3 55 19 | 27°29'55 | 2♈34   | 28°23 | 3°55  | 3°12  | 27°18 | 15°47  | 6°47  | 18°41 | 28°40  | 24°29  | 25°46 | 5°20 | 21°55  |
| S 21 | 3 59 16 | 28°30'31 | 15°32  | 29°57 | 5° 8  | 3°48  | 27°31 | 15°47  | 6°45  | 18°42 | 28°40  | 24°31  | 25°43 | 5°27 | 21°51  |
| S 22 | 4 3 12  | 29°31'09 | 28°50  | 1♈32  | 6°21  | 4°24  | 27°44 | 15°47  | 6°43  | 18°43 | 28°39  | 24°R31 | 25°40 | 5°34 | 21°48  |
| M 23 | 4 7 9   | 0♈13'48  | 12♈32  | 3° 6  | 7°34  | 4°59  | 27°57 | 15°48  | 6°41  | 18°44 | 28°39  | 24°31  | 25°36 | 5°40 | 21°45  |
| T 24 | 4 11 5  | 1°32'28  | 26°39  | 4°40  | 8°46  | 5°35  | 28°10 | 15°48  | 6°39  | 18°45 | 28°38  | 24°29  | 25°33 | 5°47 | 21°41  |
| W 25 | 4 15 2  | 2°33'09  | 11°Y 8 | 6°14  | 9°59  | 6°10  | 28°23 | 15°49  | 6°36  | 18°46 | 28°37  | 24°27  | 25°30 | 5°54 | 21°38  |
| T 26 | 4 18 58 | 3°33'51  | 25°57  | 7°48  | 11°12 | 6°46  | 28°36 | 15°49  | 6°34  | 18°47 | 28°37  | 24°24  | 25°27 | 6° 0 | 21°35  |
| F 27 | 4 22 55 | 4°34'35  | 11♈ 0  | 9°22  | 12°24 | 7°21  | 28°49 | 15°50  | 6°32  | 18°48 | 28°36  | 24°21  | 25°24 | 6° 7 | 21°31  |
| S 28 | 4 26 51 | 5°35'19  | 26° 6  | 10°56 | 13°37 | 7°56  | 29° 2 | 15°51  | 6°30  | 18°49 | 28°35  | 24°19  | 25°21 | 6°14 | 21°28  |
| S 29 | 4 30 48 | 6°36'05  | 11♈ 8  | 12°29 | 14°50 | 8°31  | 29°15 | 15°52  | 6°28  | 18°49 | 28°35  | 24°18  | 25°17 | 6°20 | 21°24  |
| M 30 | 4 34 45 | 7♈36'52  | 25♈57  | 14♈ 3 | 16♈ 2 | 9♈ 7  | 29♈29 | 15♈53  | 6♈26  | 18♈50 | 28♈34  | 24°D17 | 25♈14 | 6♈27 | 21♈21  |

Delta T = 23.88 sec.

DECEMBER 1936

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♂     | ♂     | ♂      | ♂     | ♂      | ♂      | ♂      | ♂     | ♂    | ♂      |
|------|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|------|--------|
| T 1  | 4 38 41 | 8♈37'41  | 10♈24 | 15♈36 | 17♈14 | 9♈42  | 29♈42 | 15°H54 | 6°R24 | 18♈51  | 28°R33 | 24♈18  | 25♈11 | 6♈34 | 21°R17 |
| W 2  | 4 42 38 | 9°38'30  | 24°27 | 17° 9 | 18°27 | 10°17 | 29°55 | 15°56  | 6°B22 | 18°52  | 28°B32 | 24°19  | 25° 8 | 6°41 | 21°H13 |
| T 3  | 4 46 34 | 10°39'21 | 8♈ 2  | 18°43 | 19°39 | 10°52 | 0♈ 9  | 15°57  | 6°20  | 18°52  | 28°31  | 24°20  | 25° 5 | 6°47 | 21°10  |
| F 4  | 4 50 31 | 11°40'14 | 21°11 | 20°16 | 20°51 | 11°27 | 0°22  | 15°58  | 6°18  | 18°53  | 28°31  | 24°21  | 25° 2 | 6°54 | 21° 6  |
| S 5  | 4 54 27 | 12°41'07 | 3♈57  | 21°49 | 22° 4 | 12° 2 | 0°35  | 16° 0  | 6°16  | 18°53  | 28°30  | 24°22  | 24°58 | 7° 1 | 21° 3  |
| S 6  | 4 58 24 | 13°42'02 | 16°22 | 23°22 | 23°16 | 12°37 | 0°49  | 16° 2  | 6°15  | 18°54  | 28°29  | 24°R22 | 24°55 | 7° 7 | 20°59  |
| M 7  | 5 2 20  | 14°42'58 | 28°32 | 24°55 | 24°28 | 13°12 | 1° 2  | 16° 4  | 6°13  | 18°55  | 28°28  | 24°22  | 24°52 | 7°14 | 20°55  |
| T 8  | 5 6 17  | 15°43'56 | 10♈31 | 26°28 | 25°40 | 13°46 | 1°16  | 16° 5  | 6°11  | 18°55  | 28°27  | 24°21  | 24°49 | 7°21 | 20°52  |
| W 9  | 5 10 14 | 16°44'55 | 22°23 | 28° 1 | 26°52 | 14°21 | 1°29  | 16° 8  | 6° 9  | 18°55  | 28°26  | 24°20  | 24°46 | 7°27 | 20°48  |
| T 10 | 5 14 10 | 17°45'54 | 4♈12  | 29°34 | 28° 4 | 14°56 | 1°43  | 16°10  | 6° 8  | 18°56  | 28°25  | 24°19  | 24°42 | 7°34 | 20°44  |
| F 11 | 5 18 7  | 18°46'55 | 16° 3 | 1♈ 7  | 29°16 | 15°30 | 1°57  | 16°12  | 6° 6  | 18°56  | 28°24  | 24°18  | 24°39 | 7°41 | 20°40  |
| S 12 | 5 22 3  | 19°47'57 | 27°57 | 2°40  | 0♈27  | 16° 5 | 2°10  | 16°14  | 6° 4  | 18°57  | 28°23  | 24°17  | 24°36 | 7°47 | 20°37  |
| S 13 | 5 26 0  | 20°49'00 | 9♈58  | 4°12  | 1°39  | 16°39 | 2°24  | 16°17  | 6° 3  | 18°57  | 28°22  | 24°17  | 24°33 | 7°54 | 20°33  |
| M 14 | 5 29 56 | 21°50'04 | 22° 6 | 5°44  | 2°51  | 17°14 | 2°37  | 16°19  | 6° 1  | 18°57  | 28°21  | 24°D17 | 24°30 | 8° 1 | 20°29  |
| T 15 | 5 33 53 | 22°51'08 | 4♈25  | 7°16  | 4° 2  | 17°48 | 2°51  | 16°22  | 6° 0  | 18°57  | 28°20  | 24°17  | 24°27 | 8° 7 | 20°26  |
| W 16 | 5 37 49 | 23°52'14 | 16°55 | 8°47  | 5°14  | 18°22 | 3° 5  | 16°25  | 5°58  | 18°58  | 28°19  | 24°R17 | 24°23 | 8°14 | 20°22  |
| T 17 | 5 41 46 | 24°53'19 | 29°37 | 10°18 | 6°25  | 18°57 | 3°19  | 16°27  | 5°57  | 18°58  | 28°18  | 24°17  | 24°20 | 8°21 | 20°18  |
| F 18 | 5 45 43 | 25°54'25 | 12♈33 | 11°49 | 7°36  | 19°31 | 3°32  | 16°30  | 5°56  | 18°58  | 28°17  | 24°17  | 24°17 | 8°28 | 20°15  |
| S 19 | 5 49 39 | 26°55'32 | 25°43 | 13°18 | 8°48  | 20° 5 | 3°46  | 16°33  | 5°54  | 18°58  | 28°16  | 24°17  | 24°14 | 8°34 | 20°11  |
| S 20 | 5 53 36 | 27°56'38 | 9♈ 7  | 14°47 | 9°59  | 20°39 | 4° 0  | 16°36  | 5°53  | 18°58  | 28°15  | 24°16  | 24°11 | 8°41 | 20° 7  |
| M 21 | 5 57 32 | 28°57'45 | 22°48 | 16°15 | 11°10 | 21°13 | 4°14  | 16°40  | 5°52  | 18°R58 | 28°14  | 24°D16 | 24° 8 | 8°48 | 20° 3  |
| T 22 | 6 1 29  | 29°58'52 | 6°Y45 | 17°41 | 12°21 | 21°47 | 4°27  | 16°43  | 5°51  | 18°58  | 28°13  | 24°16  | 24° 4 | 8°54 | 20° 0  |
| W 23 | 6 5 25  | 0♈59'59  | 20°57 | 19° 6 | 13°32 | 22°20 | 4°41  | 16°46  | 5°50  | 18°58  | 28°12  | 24°16  | 24° 1 | 9° 1 | 19°56  |
| T 24 | 6 9 22  | 2° 1'07  | 5♈23  | 20°29 | 14°42 | 22°54 | 4°55  | 16°50  | 5°48  | 18°58  | 28°10  | 24°17  | 23°58 | 9° 8 | 19°53  |
| F 25 | 6 13 18 | 3° 2'14  | 19°58 | 21°49 | 15°53 | 23°28 | 5° 9  | 16°53  | 5°47  | 18°58  | 28° 9  | 24°18  | 23°55 | 9°14 | 19°49  |
| S 26 | 6 17 15 | 4° 3'22  | 4♈39  | 23° 7 | 17° 4 | 24° 1 | 5°23  | 16°57  | 5°46  | 18°58  | 28° 8  | 24°18  | 23°52 | 9°21 | 19°45  |
| S 27 | 6 21 12 | 5° 4'30  | 19°19 | 24°22 | 18°14 | 24°35 | 5°37  | 17° 1  | 5°45  | 18°58  | 28° 7  | 24°R19 | 23°48 | 9°28 | 19°42  |
| M 28 | 6 25 8  | 6° 5'38  | 3♈51  | 25°33 | 19°24 | 25° 8 | 5°50  | 17° 5  | 5°45  | 18°57  | 28° 6  | 24°19  | 23°45 | 9°34 | 19°38  |
| T 29 | 6 29 5  | 7° 6'46  | 18°10 | 26°41 | 20°34 | 25°41 | 6° 4  | 17° 9  | 5°44  | 18°57  | 28° 4  | 24°18  | 23°42 | 9°41 | 19°35  |
| W 30 | 6 33 1  | 8° 7'54  | 2♈11  | 27°43 | 21°44 | 26°14 | 6°18  | 17°13  | 5°43  | 18°57  | 28° 3  | 24°17  | 23°39 | 9°48 | 19°31  |
| T 31 | 6 36 58 | 9♈ 0'03  | 15♈48 | 28♈39 | 22♈54 | 26♈48 | 6♈32  | 17°H17 | 5♈42  | 18♈56  | 28♈ 2  | 24♈15  | 23♈36 | 9♈54 | 19°H28 |

Delta T = 23.89 sec.

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