

SWISS EPHEMERIS for the year 1741  
heliocentric

JANUARY 1741

00:00 UT

| Day  | Sid.t   | Terra    | ☾     | ♃     | ♄     | ♅     | ♆    | ♁    | ♂     | ♆    | ♁    | ♂     |
|------|---------|----------|-------|-------|-------|-------|------|------|-------|------|------|-------|
| S 1  | 6 42 44 | 10°45'28 | 10°44 | 24°48 | 1°28  | 17°23 | 6°19 | 4°2  | 14°42 | 6°14 | 9°9  | 23°20 |
| M 2  | 6 46 40 | 11°46'37 | 11°47 | 29°43 | 3°5   | 17°51 | 6°24 | 4°4  | 14°42 | 6°14 | 9°9  | 23°22 |
| T 3  | 6 50 37 | 12°47'45 | 12°50 | 4°28  | 4°42  | 18°18 | 6°29 | 4°7  | 14°43 | 6°15 | 9°10 | 23°23 |
| W 4  | 6 54 33 | 13°48'54 | 13°53 | 9°4   | 6°19  | 18°46 | 6°34 | 4°9  | 14°44 | 6°15 | 9°10 | 23°24 |
| T 5  | 6 58 30 | 14°50'03 | 14°55 | 13°32 | 7°56  | 19°14 | 6°39 | 4°11 | 14°45 | 6°15 | 9°10 | 23°26 |
| F 6  | 7 2 27  | 15°51'11 | 15°58 | 17°51 | 9°33  | 19°41 | 6°44 | 4°13 | 14°45 | 6°16 | 9°11 | 23°27 |
| S 7  | 7 6 23  | 16°52'19 | 17°0  | 22°2  | 11°10 | 20°9  | 6°49 | 4°15 | 14°46 | 6°16 | 9°11 | 23°28 |
| S 8  | 7 10 20 | 17°53'27 | 18°2  | 26°5  | 12°47 | 20°36 | 6°54 | 4°18 | 14°47 | 6°16 | 9°12 | 23°30 |
| M 9  | 7 14 16 | 18°54'36 | 19°4  | 0°1   | 14°24 | 21°4  | 6°59 | 4°20 | 14°47 | 6°17 | 9°12 | 23°31 |
| T 10 | 7 18 13 | 19°55'43 | 20°5  | 3°50  | 16°0  | 21°31 | 7°4  | 4°22 | 14°48 | 6°17 | 9°13 | 23°32 |
| W 11 | 7 22 9  | 20°56'51 | 21°6  | 7°33  | 17°37 | 21°59 | 7°9  | 4°24 | 14°49 | 6°18 | 9°13 | 23°34 |
| T 12 | 7 26 6  | 21°57'59 | 22°7  | 11°10 | 19°14 | 22°26 | 7°15 | 4°26 | 14°49 | 6°18 | 9°13 | 23°35 |
| F 13 | 7 30 2  | 22°59'06 | 23°7  | 14°41 | 20°50 | 22°54 | 7°20 | 4°29 | 14°50 | 6°18 | 9°14 | 23°37 |
| S 14 | 7 33 59 | 24°0'13  | 24°7  | 18°7  | 22°27 | 23°21 | 7°25 | 4°31 | 14°51 | 6°19 | 9°14 | 23°38 |
| S 15 | 7 37 56 | 25°1'20  | 25°6  | 21°28 | 24°3  | 23°48 | 7°30 | 4°33 | 14°51 | 6°19 | 9°15 | 23°39 |
| M 16 | 7 41 52 | 26°2'27  | 26°5  | 24°45 | 25°40 | 24°16 | 7°35 | 4°35 | 14°52 | 6°19 | 9°15 | 23°41 |
| T 17 | 7 45 49 | 27°3'32  | 27°5  | 27°58 | 27°16 | 24°43 | 7°40 | 4°38 | 14°53 | 6°20 | 9°15 | 23°42 |
| W 18 | 7 49 45 | 28°4'38  | 28°4  | 1°1   | 28°53 | 25°10 | 7°45 | 4°40 | 14°53 | 6°20 | 9°16 | 23°43 |
| T 19 | 7 53 42 | 29°5'42  | 29°3  | 4°13  | 0°1   | 25°37 | 7°50 | 4°42 | 14°54 | 6°20 | 9°16 | 23°45 |
| F 20 | 7 57 38 | 0°6'46   | 0°2   | 7°15  | 2°5   | 26°5  | 7°55 | 4°44 | 14°55 | 6°21 | 9°17 | 23°46 |
| S 21 | 8 1 35  | 1°7'48   | 1°1   | 10°15 | 3°41  | 26°32 | 8°0  | 4°46 | 14°55 | 6°21 | 9°17 | 23°47 |
| S 22 | 8 5 31  | 2°8'49   | 2°1   | 13°12 | 5°18  | 26°59 | 8°5  | 4°49 | 14°56 | 6°22 | 9°18 | 23°49 |
| M 23 | 8 9 28  | 3°9'49   | 3°1   | 16°6  | 6°54  | 27°26 | 8°10 | 4°51 | 14°57 | 6°22 | 9°18 | 23°50 |
| T 24 | 8 13 25 | 4°10'48  | 4°2   | 18°59 | 8°30  | 27°53 | 8°15 | 4°53 | 14°57 | 6°22 | 9°18 | 23°52 |
| W 25 | 8 17 21 | 5°11'46  | 5°3   | 21°50 | 10°6  | 28°20 | 8°20 | 4°55 | 14°58 | 6°23 | 9°19 | 23°53 |
| T 26 | 8 21 18 | 6°12'43  | 6°5   | 24°39 | 11°42 | 28°47 | 8°25 | 4°57 | 14°59 | 6°23 | 9°19 | 23°54 |
| F 27 | 8 25 14 | 7°13'38  | 7°6   | 27°27 | 13°18 | 29°14 | 8°30 | 5°0  | 14°59 | 6°23 | 9°20 | 23°56 |
| S 28 | 8 29 11 | 8°14'32  | 8°8   | 0°14  | 14°54 | 29°41 | 8°35 | 5°2  | 15°0  | 6°24 | 9°20 | 23°57 |
| S 29 | 8 33 7  | 9°15'25  | 9°11  | 3°1   | 16°30 | 0°8   | 8°40 | 5°4  | 15°1  | 6°24 | 9°21 | 23°58 |
| M 30 | 8 37 4  | 10°16'16 | 10°13 | 5°46  | 18°6  | 0°35  | 8°45 | 5°6  | 15°1  | 6°24 | 9°21 | 24°0  |
| T 31 | 8 41 0  | 11°17'06 | 11°16 | 8°31  | 19°41 | 1°2   | 8°50 | 5°8  | 15°2  | 6°25 | 9°21 | 24°1  |

Delta T = 11.17 sec. Greg. Calendar

FEBRUARY 1741

00:00 UT

| Day  | Sid.t    | Terra    | ☾     | ♃     | ♄     | ♅     | ♆     | ♁    | ♂     | ♆    | ♁    | ♂     |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| W 1  | 8 44 57  | 12°17'55 | 12°18 | 11°16 | 21°17 | 1°29  | 8°55  | 5°11 | 15°3  | 6°25 | 9°22 | 24°2  |
| T 2  | 8 48 54  | 13°18'43 | 13°21 | 14°0  | 22°53 | 1°56  | 9°0   | 5°13 | 15°3  | 6°26 | 9°22 | 24°4  |
| F 3  | 8 52 50  | 14°19'30 | 14°23 | 16°45 | 24°28 | 2°23  | 9°5   | 5°15 | 15°4  | 6°26 | 9°23 | 24°5  |
| S 4  | 8 56 47  | 15°20'15 | 15°26 | 19°30 | 26°4  | 2°50  | 9°10  | 5°17 | 15°5  | 6°26 | 9°23 | 24°7  |
| S 5  | 9 0 43   | 16°21'00 | 16°28 | 22°16 | 27°40 | 3°17  | 9°15  | 5°19 | 15°5  | 6°27 | 9°24 | 24°8  |
| M 6  | 9 4 40   | 17°21'43 | 17°30 | 25°2  | 29°15 | 3°44  | 9°20  | 5°22 | 15°6  | 6°27 | 9°24 | 24°9  |
| T 7  | 9 8 36   | 18°22'25 | 18°31 | 27°50 | 0°51  | 4°11  | 9°25  | 5°24 | 15°7  | 6°27 | 9°24 | 24°11 |
| W 8  | 9 12 33  | 19°23'06 | 19°32 | 0°38  | 2°26  | 4°37  | 9°30  | 5°26 | 15°7  | 6°28 | 9°25 | 24°12 |
| T 9  | 9 16 29  | 20°23'46 | 20°33 | 3°28  | 4°2   | 5°4   | 9°35  | 5°28 | 15°8  | 6°28 | 9°25 | 24°13 |
| F 10 | 9 20 26  | 21°24'24 | 21°33 | 6°20  | 5°37  | 5°31  | 9°40  | 5°30 | 15°9  | 6°28 | 9°26 | 24°15 |
| S 11 | 9 24 23  | 22°25'02 | 22°33 | 9°14  | 7°12  | 5°58  | 9°45  | 5°33 | 15°10 | 6°29 | 9°26 | 24°16 |
| S 12 | 9 28 19  | 23°25'38 | 23°33 | 12°9  | 8°48  | 6°24  | 9°50  | 5°35 | 15°10 | 6°29 | 9°27 | 24°18 |
| M 13 | 9 32 16  | 24°26'14 | 24°32 | 15°7  | 10°23 | 6°51  | 9°55  | 5°37 | 15°11 | 6°30 | 9°27 | 24°19 |
| T 14 | 9 36 12  | 25°26'47 | 25°31 | 18°8  | 11°58 | 7°18  | 10°0  | 5°39 | 15°12 | 6°30 | 9°27 | 24°20 |
| W 15 | 9 40 9   | 26°27'20 | 26°29 | 21°11 | 13°33 | 7°44  | 10°5  | 5°42 | 15°12 | 6°30 | 9°28 | 24°22 |
| T 16 | 9 44 5   | 27°27'51 | 27°28 | 24°17 | 15°9  | 8°11  | 10°10 | 5°44 | 15°13 | 6°31 | 9°28 | 24°23 |
| F 17 | 9 48 2   | 28°28'20 | 28°26 | 27°27 | 16°44 | 8°38  | 10°15 | 5°46 | 15°14 | 6°31 | 9°29 | 24°24 |
| S 18 | 9 51 58  | 29°28'47 | 29°25 | 0°41  | 18°19 | 9°4   | 10°20 | 5°48 | 15°14 | 6°31 | 9°29 | 24°26 |
| S 19 | 9 55 55  | 0°29'13  | 0°23  | 3°58  | 19°54 | 9°31  | 10°25 | 5°50 | 15°15 | 6°32 | 9°30 | 24°27 |
| M 20 | 9 59 52  | 1°29'37  | 1°22  | 7°20  | 21°29 | 9°58  | 10°30 | 5°53 | 15°16 | 6°32 | 9°30 | 24°29 |
| T 21 | 10 3 48  | 2°29'58  | 2°22  | 10°46 | 23°4  | 10°24 | 10°35 | 5°55 | 15°16 | 6°33 | 9°30 | 24°30 |
| W 22 | 10 7 45  | 3°30'18  | 3°22  | 14°17 | 24°39 | 10°51 | 10°40 | 5°57 | 15°17 | 6°33 | 9°31 | 24°31 |
| T 23 | 10 11 41 | 4°30'36  | 4°22  | 17°53 | 26°14 | 11°17 | 10°45 | 5°59 | 15°18 | 6°33 | 9°31 | 24°33 |
| F 24 | 10 15 38 | 5°30'52  | 5°22  | 21°36 | 27°49 | 11°44 | 10°50 | 6°1  | 15°18 | 6°34 | 9°32 | 24°34 |
| S 25 | 10 19 34 | 6°31'06  | 6°23  | 25°24 | 29°24 | 12°10 | 10°55 | 6°4  | 15°19 | 6°34 | 9°32 | 24°35 |
| S 26 | 10 23 31 | 7°31'17  | 7°24  | 29°18 | 0°59  | 12°37 | 11°0  | 6°6  | 15°20 | 6°34 | 9°32 | 24°37 |
| M 27 | 10 27 27 | 8°31'27  | 8°26  | 3°19  | 2°34  | 13°3  | 11°5  | 6°8  | 15°20 | 6°35 | 9°33 | 24°38 |
| T 28 | 10 31 24 | 9°31'35  | 9°27  | 7°27  | 4°9   | 13°30 | 11°10 | 6°10 | 15°21 | 6°35 | 9°33 | 24°40 |

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SWISS EPHEMERIS for the year 1741  
heliocentric

MARCH 1741

00:00 UT

| Day  | Sid.t    | Terra                 | ☾                  | ♃                  | ♄                  | ♅                  | ♆                  | ♁                 | ♂                  | ♆                 | ♁                 | ♃                  |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
| W 1  | 10 35 21 | 10 <sup>h</sup> 31'40 | 10 <sup>h</sup> 29 | 11 <sup>h</sup> 43 | 5 <sup>h</sup> 44  | 13 <sup>h</sup> 56 | 11 <sup>h</sup> 15 | 6 <sup>h</sup> 12 | 15 <sup>h</sup> 22 | 6 <sup>h</sup> 35 | 9 <sup>h</sup> 34 | 24 <sup>h</sup> 41 |
| T 2  | 10 39 17 | 11°31'44              | 11°31              | 16° 7              | 7°19               | 14°23              | 11°20              | 6°15              | 15°22              | 6°36              | 9°34              | 24°42              |
| F 3  | 10 43 14 | 12°31'46              | 12°33              | 20°39              | 8°54               | 14°49              | 11°25              | 6°17              | 15°23              | 6°36              | 9°35              | 24°44              |
| S 4  | 10 47 10 | 13°31'45              | 13°34              | 25°19              | 10°29              | 15°15              | 11°30              | 6°19              | 15°24              | 6°37              | 9°35              | 24°45              |
| S 5  | 10 51 7  | 14°31'43              | 14°36              | 0 <sup>h</sup> 8   | 12° 3              | 15°42              | 11°35              | 6°21              | 15°24              | 6°37              | 9°35              | 24°46              |
| M 6  | 10 55 3  | 15°31'40              | 15°37              | 5° 6               | 13°38              | 16° 8              | 11°40              | 6°23              | 15°25              | 6°37              | 9°36              | 24°48              |
| T 7  | 10 59 0  | 16°31'34              | 16°39              | 10°13              | 15°13              | 16°35              | 11°45              | 6°26              | 15°26              | 6°38              | 9°36              | 24°49              |
| W 8  | 11 2 56  | 17°31'27              | 17°39              | 15°29              | 16°48              | 17° 1              | 11°50              | 6°28              | 15°26              | 6°38              | 9°37              | 24°51              |
| T 9  | 11 6 53  | 18°31'18              | 18°40              | 20°54              | 18°23              | 17°27              | 11°55              | 6°30              | 15°27              | 6°38              | 9°37              | 24°52              |
| F 10 | 11 10 50 | 19°31'07              | 19°40              | 26°29              | 19°58              | 17°54              | 12° 0              | 6°32              | 15°28              | 6°39              | 9°38              | 24°53              |
| S 11 | 11 14 46 | 20°30'55              | 20°40              | 2 <sup>h</sup> 11  | 21°32              | 18°20              | 12° 5              | 6°34              | 15°28              | 6°39              | 9°38              | 24°55              |
| S 12 | 11 18 43 | 21°30'41              | 21°39              | 8° 2               | 23° 7              | 18°46              | 12°10              | 6°37              | 15°29              | 6°39              | 9°38              | 24°56              |
| M13  | 11 22 39 | 22°30'25              | 22°38              | 14° 0              | 24°42              | 19°13              | 12°15              | 6°39              | 15°30              | 6°40              | 9°39              | 24°58              |
| T 14 | 11 26 36 | 23°30'08              | 23°36              | 20° 5              | 26°17              | 19°39              | 12°20              | 6°41              | 15°30              | 6°40              | 9°39              | 24°59              |
| W15  | 11 30 32 | 24°29'49              | 24°34              | 26°15              | 27°52              | 20° 5              | 12°25              | 6°43              | 15°31              | 6°41              | 9°40              | 25° 0              |
| T 16 | 11 34 29 | 25°29'28              | 25°32              | 2 <sup>h</sup> 29  | 29°27              | 20°32              | 12°30              | 6°45              | 15°32              | 6°41              | 9°40              | 25° 2              |
| F 17 | 11 38 25 | 26°29'05              | 26°30              | 8°46               | 1 <sup>h</sup> 1   | 20°58              | 12°35              | 6°48              | 15°32              | 6°41              | 9°41              | 25° 3              |
| S 18 | 11 42 22 | 27°28'40              | 27°27              | 15° 5              | 2°36               | 21°24              | 12°40              | 6°50              | 15°33              | 6°42              | 9°41              | 25° 4              |
| S 19 | 11 46 19 | 28°28'12              | 28°25              | 21°24              | 4°11               | 21°51              | 12°45              | 6°52              | 15°34              | 6°42              | 9°41              | 25° 6              |
| M20  | 11 50 15 | 29°27'43              | 29°23              | 27°42              | 5°46               | 22°17              | 12°50              | 6°54              | 15°34              | 6°42              | 9°42              | 25° 7              |
| T 21 | 11 54 12 | 0 <sup>h</sup> 27'12  | 0 <sup>h</sup> 21  | 3 <sup>h</sup> 57  | 7°21               | 22°43              | 12°55              | 6°56              | 15°35              | 6°43              | 9°42              | 25° 9              |
| W22  | 11 58 8  | 1°26'38               | 1°19               | 10° 7              | 8°56               | 23° 9              | 13° 0              | 6°59              | 15°36              | 6°43              | 9°43              | 25°10              |
| T 23 | 12 2 5   | 2°26'02               | 2°17               | 16°12              | 10°31              | 23°36              | 13° 5              | 7° 1              | 15°37              | 6°43              | 9°43              | 25°11              |
| F 24 | 12 6 1   | 3°25'23               | 3°16               | 22°10              | 12° 5              | 24° 2              | 13°10              | 7° 3              | 15°37              | 6°44              | 9°44              | 25°13              |
| S 25 | 12 9 58  | 4°24'43               | 4°16               | 28° 0              | 13°40              | 24°28              | 13°15              | 7° 5              | 15°38              | 6°44              | 9°44              | 25°14              |
| S 26 | 12 13 54 | 5°23'59               | 5°16               | 3 <sup>h</sup> 42  | 15°15              | 24°54              | 13°20              | 7° 7              | 15°39              | 6°45              | 9°44              | 25°16              |
| M27  | 12 17 51 | 6°23'14               | 6°15               | 9°15               | 16°50              | 25°21              | 13°25              | 7°10              | 15°39              | 6°45              | 9°45              | 25°17              |
| T 28 | 12 21 48 | 7°22'26               | 7°16               | 14°39              | 18°25              | 25°47              | 13°30              | 7°12              | 15°40              | 6°45              | 9°45              | 25°18              |
| W29  | 12 25 44 | 8°21'36               | 8°16               | 19°53              | 20° 0              | 26°13              | 13°35              | 7°14              | 15°41              | 6°46              | 9°46              | 25°20              |
| T 30 | 12 29 41 | 9°20'44               | 9°17               | 24°57              | 21°35              | 26°39              | 13°40              | 7°16              | 15°41              | 6°46              | 9°46              | 25°21              |
| F 31 | 12 33 37 | 10 <sup>h</sup> 19'49 | 10 <sup>h</sup> 18 | 29 <sup>h</sup> 52 | 23 <sup>h</sup> 10 | 27 <sup>h</sup> 6  | 13 <sup>h</sup> 45 | 7 <sup>h</sup> 18 | 15 <sup>h</sup> 42 | 6 <sup>h</sup> 46 | 9 <sup>h</sup> 46 | 25 <sup>h</sup> 23 |

Delta T = 11.17 sec. Greg. Calendar

APRIL 1741

00:00 UT

| Day  | Sid.t    | Terra                 | ☾                  | ♃                  | ♄                  | ♅                  | ♆                  | ♁                 | ♂                  | ♆                 | ♁                 | ♃                  |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
| S 1  | 12 37 34 | 11 <sup>h</sup> 18'53 | 11 <sup>h</sup> 18 | 4 <sup>h</sup> 37  | 24 <sup>h</sup> 45 | 27 <sup>h</sup> 32 | 13 <sup>h</sup> 50 | 7 <sup>h</sup> 21 | 15 <sup>h</sup> 43 | 6 <sup>h</sup> 47 | 9 <sup>h</sup> 47 | 25 <sup>h</sup> 24 |
| S 2  | 12 41 30 | 12°17'54              | 12°19              | 9°13               | 26°20              | 27°58              | 13°55              | 7°23              | 15°43              | 6°47              | 9°47              | 25°25              |
| M 3  | 12 45 27 | 13°16'54              | 13°20              | 13°40              | 27°55              | 28°24              | 14° 0              | 7°25              | 15°44              | 6°47              | 9°48              | 25°27              |
| T 4  | 12 49 23 | 14°15'51              | 14°20              | 17°59              | 29°30              | 28°51              | 14° 5              | 7°27              | 15°45              | 6°48              | 9°48              | 25°28              |
| W 5  | 12 53 20 | 15°14'47              | 15°21              | 22°10              | 1 <sup>h</sup> 5   | 29°17              | 14° 9              | 7°29              | 15°45              | 6°48              | 9°49              | 25°30              |
| T 6  | 12 57 16 | 16°13'40              | 16°21              | 26°13              | 2°40               | 29°43              | 14°14              | 7°32              | 15°46              | 6°49              | 9°49              | 25°31              |
| F 7  | 13 1 13  | 17°12'32              | 17°21              | 0 <sup>h</sup> 8   | 4°15               | 0 <sup>h</sup> 9   | 14°19              | 7°34              | 15°47              | 6°49              | 9°49              | 25°32              |
| S 8  | 13 5 10  | 18°11'23              | 18°20              | 3°57               | 5°50               | 0°35               | 14°24              | 7°36              | 15°47              | 6°49              | 9°50              | 25°34              |
| S 9  | 13 9 6   | 19°10'11              | 19°19              | 7°40               | 7°26               | 1° 2               | 14°29              | 7°38              | 15°48              | 6°50              | 9°50              | 25°35              |
| M10  | 13 13 3  | 20° 8'58              | 20°17              | 11°17              | 9° 1               | 1°28               | 14°34              | 7°40              | 15°49              | 6°50              | 9°51              | 25°37              |
| T 11 | 13 16 59 | 21° 7'43              | 21°15              | 14°48              | 10°36              | 1°54               | 14°39              | 7°43              | 15°49              | 6°50              | 9°51              | 25°38              |
| W12  | 13 20 56 | 22° 6'27              | 22°13              | 18°14              | 12°11              | 2°20               | 14°44              | 7°45              | 15°50              | 6°51              | 9°52              | 25°39              |
| T 13 | 13 24 52 | 23° 5'08              | 23°10              | 21°35              | 13°46              | 2°46               | 14°49              | 7°47              | 15°51              | 6°51              | 9°52              | 25°41              |
| F 14 | 13 28 49 | 24° 3'48              | 24° 7              | 24°51              | 15°22              | 3°13               | 14°54              | 7°49              | 15°51              | 6°51              | 9°52              | 25°42              |
| S 15 | 13 32 45 | 25° 2'26              | 25° 4              | 28° 4              | 16°57              | 3°39               | 14°59              | 7°51              | 15°52              | 6°52              | 9°53              | 25°43              |
| S 16 | 13 36 42 | 26° 1'02              | 26° 0              | 1 <sup>h</sup> 13  | 18°32              | 4° 5               | 15° 4              | 7°54              | 15°53              | 6°52              | 9°53              | 25°45              |
| M17  | 13 40 39 | 26°59'37              | 26°57              | 4°18               | 20° 7              | 4°31               | 15° 9              | 7°56              | 15°53              | 6°53              | 9°54              | 25°46              |
| T 18 | 13 44 35 | 27°58'09              | 27°54              | 7°21               | 21°43              | 4°57               | 15°14              | 7°58              | 15°54              | 6°53              | 9°54              | 25°48              |
| W19  | 13 48 32 | 28°56'39              | 28°51              | 10°20              | 23°18              | 5°24               | 15°19              | 8° 0              | 15°55              | 6°53              | 9°55              | 25°49              |
| T 20 | 13 52 28 | 29°55'07              | 29°48              | 13°17              | 24°54              | 5°50               | 15°24              | 8° 2              | 15°55              | 6°54              | 9°55              | 25°51              |
| F 21 | 13 56 25 | 0 <sup>h</sup> 53'33  | 0 <sup>h</sup> 45  | 16°12              | 26°29              | 6°16               | 15°29              | 8° 5              | 15°56              | 6°54              | 9°55              | 25°52              |
| S 22 | 14 0 21  | 1°51'57               | 1°43               | 19° 5              | 28° 4              | 6°42               | 15°34              | 8° 7              | 15°57              | 6°54              | 9°56              | 25°53              |
| S 23 | 14 4 18  | 2°50'19               | 2°41               | 21°55              | 29°40              | 7° 9               | 15°39              | 8° 9              | 15°57              | 6°55              | 9°56              | 25°55              |
| M24  | 14 8 14  | 3°48'39               | 3°40               | 24°45              | 1°15               | 7°35               | 15°44              | 8°11              | 15°58              | 6°55              | 9°57              | 25°56              |
| T 25 | 14 12 11 | 4°46'56               | 4°39               | 27°33              | 2°51               | 8° 1               | 15°49              | 8°13              | 15°59              | 6°56              | 9°57              | 25°58              |
| W26  | 14 16 8  | 5°45'12               | 5°38               | 0 <sup>h</sup> 20  | 4°26               | 8°27               | 15°54              | 8°16              | 15°59              | 6°56              | 9°58              | 25°59              |
| T 27 | 14 20 4  | 6°43'25               | 6°37               | 3° 6               | 6° 2               | 8°54               | 15°59              | 8°18              | 16° 0              | 6°56              | 9°58              | 26° 0              |
| F 28 | 14 24 1  | 7°41'36               | 7°37               | 5°51               | 7°37               | 9°20               | 16° 4              | 8°20              | 16° 1              | 6°57              | 9°58              | 26° 2              |
| S 29 | 14 27 57 | 8°39'46               | 8°36               | 8°36               | 9°13               | 9°46               | 16° 9              | 8°22              | 16° 1              | 6°57              | 9°59              | 26° 3              |
| S 30 | 14 31 54 | 9 <sup>h</sup> 37'54  | 9 <sup>h</sup> 36  | 11 <sup>h</sup> 21 | 10 <sup>h</sup> 49 | 10 <sup>h</sup> 12 | 16 <sup>h</sup> 14 | 8 <sup>h</sup> 24 | 16 <sup>h</sup> 2  | 6 <sup>h</sup> 57 | 9 <sup>h</sup> 59 | 26 <sup>h</sup> 5  |

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SWISS EPHEMERIS for the year 1741  
heliocentric

MAY 1741

00:00 UT

| Day  | Sid.t    | Terra    | ☾     | ♃     | ♄     | ♅     | ♆     | ♁    | ♂     | ♆    | ♁     | ♃     |
|------|----------|----------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|
| M 1  | 14 35 50 | 10♁36'00 | 10♁36 | 14♂ 5 | 12♃24 | 10♁39 | 16♁19 | 8♁27 | 16♁3  | 6♁58 | 10♁0  | 26♁6  |
| T 2  | 14 39 47 | 11°34'04 | 11°36 | 16°50 | 14° 0 | 11° 5 | 16°23 | 8°29 | 16° 3 | 6°58 | 10° 0 | 26° 7 |
| W 3  | 14 43 43 | 12°32'07 | 12°36 | 19°35 | 15°36 | 11°31 | 16°28 | 8°31 | 16° 4 | 6°58 | 10° 0 | 26° 9 |
| T 4  | 14 47 40 | 13°30'08 | 13°35 | 22°21 | 17°11 | 11°58 | 16°33 | 8°33 | 16° 5 | 6°59 | 10° 1 | 26°10 |
| F 5  | 14 51 37 | 14°28'08 | 14°35 | 25° 8 | 18°47 | 12°24 | 16°38 | 8°35 | 16° 6 | 6°59 | 10° 1 | 26°12 |
| S 6  | 14 55 33 | 15°26'07 | 15°34 | 27°55 | 20°23 | 12°50 | 16°43 | 8°38 | 16° 6 | 7° 0 | 10° 2 | 26°13 |
| S 7  | 14 59 30 | 16°24'04 | 16°32 | 0♁44  | 21°59 | 13°16 | 16°48 | 8°40 | 16° 7 | 7° 0 | 10° 2 | 26°14 |
| M 8  | 15 3 26  | 17°22'00 | 17°30 | 3°34  | 23°35 | 13°43 | 16°53 | 8°42 | 16° 8 | 7° 0 | 10° 3 | 26°16 |
| T 9  | 15 7 23  | 18°19'54 | 18°28 | 6°26  | 25°10 | 14° 9 | 16°58 | 8°44 | 16° 8 | 7° 1 | 10° 3 | 26°17 |
| W10  | 15 11 19 | 19°17'48 | 19°26 | 9°19  | 26°46 | 14°35 | 17° 3 | 8°46 | 16° 9 | 7° 1 | 10° 3 | 26°19 |
| T 11 | 15 15 16 | 20°15'40 | 20°22 | 12°15 | 28°22 | 15° 2 | 17° 8 | 8°49 | 16°10 | 7° 1 | 10° 4 | 26°20 |
| F 12 | 15 19 12 | 21°13'30 | 21°19 | 15°13 | 29°58 | 15°28 | 17°13 | 8°51 | 16°10 | 7° 2 | 10° 4 | 26°21 |
| S 13 | 15 23 9  | 22°11'20 | 22°15 | 18°13 | 1♁34  | 15°55 | 17°18 | 8°53 | 16°11 | 7° 2 | 10° 5 | 26°23 |
| S 14 | 15 27 6  | 23° 9'08 | 23°11 | 21°17 | 3°10  | 16°21 | 17°23 | 8°55 | 16°12 | 7° 2 | 10° 5 | 26°24 |
| M15  | 15 31 2  | 24° 6'55 | 24° 7 | 24°23 | 4°46  | 16°47 | 17°28 | 8°57 | 16°12 | 7° 3 | 10° 6 | 26°26 |
| T 16 | 15 34 59 | 25° 4'41 | 25° 3 | 27°33 | 6°22  | 17°14 | 17°33 | 9° 0 | 16°13 | 7° 3 | 10° 6 | 26°27 |
| W17  | 15 38 55 | 26° 2'25 | 25°59 | 0♁47  | 7°58  | 17°40 | 17°38 | 9° 2 | 16°14 | 7° 4 | 10° 6 | 26°29 |
| T 18 | 15 42 52 | 27° 0'08 | 26°55 | 4° 4  | 9°34  | 18° 7 | 17°43 | 9° 4 | 16°14 | 7° 4 | 10° 7 | 26°30 |
| F 19 | 15 46 48 | 27°57'50 | 27°51 | 7°26  | 11°10 | 18°33 | 17°48 | 9° 6 | 16°15 | 7° 4 | 10° 7 | 26°31 |
| S 20 | 15 50 45 | 28°55'30 | 28°48 | 10°52 | 12°47 | 18°59 | 17°53 | 9° 8 | 16°16 | 7° 5 | 10° 8 | 26°33 |
| S 21 | 15 54 41 | 29°53'08 | 29°45 | 14°24 | 14°23 | 19°26 | 17°57 | 9°11 | 16°16 | 7° 5 | 10° 8 | 26°34 |
| M22  | 15 58 38 | 0♁50'45  | 0♁42  | 18° 0 | 15°59 | 19°52 | 18° 2 | 9°13 | 16°17 | 7° 5 | 10° 9 | 26°36 |
| T 23 | 16 2 35  | 1°48'20  | 1°39  | 21°43 | 17°35 | 20°19 | 18° 7 | 9°15 | 16°18 | 7° 6 | 10° 9 | 26°37 |
| W24  | 16 6 31  | 2°45'54  | 2°37  | 25°31 | 19°11 | 20°45 | 18°12 | 9°17 | 16°18 | 7° 6 | 10° 9 | 26°38 |
| T 25 | 16 10 28 | 3°43'26  | 3°35  | 29°26 | 20°48 | 21°12 | 18°17 | 9°19 | 16°19 | 7° 6 | 10°10 | 26°40 |
| F 26 | 16 14 24 | 4°40'57  | 4°34  | 3♁27  | 22°24 | 21°38 | 18°22 | 9°22 | 16°20 | 7° 7 | 10°10 | 26°41 |
| S 27 | 16 18 21 | 5°38'27  | 5°33  | 7°35  | 24° 0 | 22° 5 | 18°27 | 9°24 | 16°20 | 7° 7 | 10°11 | 26°43 |
| S 28 | 16 22 17 | 6°35'56  | 6°32  | 11°51 | 25°37 | 22°32 | 18°32 | 9°26 | 16°21 | 7° 8 | 10°11 | 26°44 |
| M29  | 16 26 14 | 7°33'23  | 7°31  | 16°15 | 27°13 | 22°58 | 18°37 | 9°28 | 16°22 | 7° 8 | 10°12 | 26°46 |
| T 30 | 16 30 10 | 8°30'49  | 8°30  | 20°47 | 28°50 | 23°25 | 18°42 | 9°30 | 16°22 | 7° 8 | 10°12 | 26°47 |
| W31  | 16 34 7  | 9♁28'15  | 9♁29  | 25♁28 | 0♁26  | 23♁51 | 18♁47 | 9♁32 | 16♁23 | 7♁9  | 10♁12 | 26♁48 |

Delta T = 11.18 sec. Greg. Calendar

JUNE 1741

00:00 UT

| Day  | Sid.t    | Terra    | ☾     | ♃     | ♄     | ♅     | ♆     | ♁     | ♂     | ♆    | ♁     | ♃     |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| T 1  | 16 38 4  | 10♁25'39 | 10♁28 | 0♁17  | 2♁3   | 24♁18 | 18♁52 | 9♁35  | 16♁24 | 7♁9  | 10♁13 | 26♁50 |
| F 2  | 16 42 0  | 11°23'03 | 11°27 | 5°15  | 3°39  | 24°45 | 18°57 | 9°37  | 16°24 | 7° 9 | 10°13 | 26°51 |
| S 3  | 16 45 57 | 12°20'26 | 12°26 | 10°23 | 5°16  | 25°11 | 19° 2 | 9°39  | 16°25 | 7°10 | 10°14 | 26°53 |
| S 4  | 16 49 53 | 13°17'48 | 13°25 | 15°39 | 6°52  | 25°38 | 19° 7 | 9°41  | 16°26 | 7°10 | 10°14 | 26°54 |
| M 5  | 16 53 50 | 14°15'10 | 14°23 | 21° 5 | 8°29  | 26° 5 | 19°11 | 9°43  | 16°26 | 7°11 | 10°15 | 26°55 |
| T 6  | 16 57 46 | 15°12'31 | 15°21 | 26°39 | 10° 6 | 26°31 | 19°16 | 9°46  | 16°27 | 7°11 | 10°15 | 26°57 |
| W 7  | 17 1 43  | 16° 9'52 | 16°18 | 2♁22  | 11°42 | 26°58 | 19°21 | 9°48  | 16°28 | 7°11 | 10°15 | 26°58 |
| T 8  | 17 5 39  | 17° 7'12 | 17°15 | 8°13  | 13°19 | 27°25 | 19°26 | 9°50  | 16°28 | 7°12 | 10°16 | 27° 0 |
| F 9  | 17 9 36  | 18° 4'31 | 18°12 | 14°11 | 14°56 | 27°52 | 19°31 | 9°52  | 16°29 | 7°12 | 10°16 | 27° 1 |
| S 10 | 17 13 33 | 19° 1'51 | 19° 8 | 20°16 | 16°32 | 28°18 | 19°36 | 9°54  | 16°30 | 7°12 | 10°17 | 27° 3 |
| S 11 | 17 17 29 | 19°59'10 | 20° 4 | 26°26 | 18° 9 | 28°45 | 19°41 | 9°57  | 16°30 | 7°13 | 10°17 | 27° 4 |
| M12  | 17 21 26 | 20°56'28 | 20°59 | 2♁41  | 19°46 | 29°12 | 19°46 | 9°59  | 16°31 | 7°13 | 10°17 | 27° 5 |
| T 13 | 17 25 22 | 21°53'46 | 21°55 | 8°58  | 21°23 | 29°39 | 19°51 | 10° 1 | 16°32 | 7°13 | 10°18 | 27° 7 |
| W14  | 17 29 19 | 22°51'04 | 22°50 | 15°17 | 23° 0 | 0♁6   | 19°56 | 10° 3 | 16°33 | 7°14 | 10°18 | 27° 8 |
| T 15 | 17 33 15 | 23°48'21 | 23°45 | 21°36 | 24°37 | 0°32  | 20° 1 | 10° 5 | 16°33 | 7°14 | 10°19 | 27°10 |
| F 16 | 17 37 12 | 24°45'37 | 24°41 | 27°54 | 26°14 | 0°59  | 20° 6 | 10° 8 | 16°34 | 7°15 | 10°19 | 27°11 |
| S 17 | 17 41 8  | 25°42'53 | 25°37 | 4♁9   | 27°51 | 1°26  | 20°11 | 10°10 | 16°35 | 7°15 | 10°20 | 27°13 |
| S 18 | 17 45 5  | 26°40'08 | 26°33 | 10°19 | 29°28 | 1°53  | 20°16 | 10°12 | 16°35 | 7°15 | 10°20 | 27°14 |
| M19  | 17 49 2  | 27°37'23 | 27°29 | 16°23 | 1♁5   | 2°20  | 20°20 | 10°14 | 16°36 | 7°16 | 10°20 | 27°15 |
| T 20 | 17 52 58 | 28°34'37 | 28°26 | 22°21 | 2°42  | 2°47  | 20°25 | 10°16 | 16°37 | 7°16 | 10°21 | 27°17 |
| W21  | 17 56 55 | 29°31'50 | 29°23 | 28°11 | 4°19  | 3°14  | 20°30 | 10°19 | 16°37 | 7°16 | 10°21 | 27°18 |
| T 22 | 18 0 51  | 0♁29'02  | 0♁20  | 3♁53  | 5°56  | 3°41  | 20°35 | 10°21 | 16°38 | 7°17 | 10°22 | 27°20 |
| F 23 | 18 4 48  | 1°26'15  | 1°18  | 9°26  | 7°33  | 4° 8  | 20°40 | 10°23 | 16°39 | 7°17 | 10°22 | 27°21 |
| S 24 | 18 8 44  | 2°23'26  | 2°16  | 14°49 | 9°10  | 4°35  | 20°45 | 10°25 | 16°39 | 7°17 | 10°23 | 27°23 |
| S 25 | 18 12 41 | 3°20'37  | 3°14  | 20° 3 | 10°48 | 5° 2  | 20°50 | 10°27 | 16°40 | 7°18 | 10°23 | 27°24 |
| M26  | 18 16 37 | 4°17'48  | 4°13  | 25° 6 | 12°25 | 5°30  | 20°55 | 10°30 | 16°41 | 7°18 | 10°23 | 27°25 |
| T 27 | 18 20 34 | 5°14'59  | 5°11  | 0♁1   | 14° 2 | 5°57  | 21° 0 | 10°32 | 16°41 | 7°19 | 10°24 | 27°27 |
| W28  | 18 24 31 | 6°12'09  | 6°10  | 4°46  | 15°39 | 6°24  | 21° 5 | 10°34 | 16°42 | 7°19 | 10°24 | 27°28 |
| T 29 | 18 28 27 | 7° 9'20  | 7° 9  | 9°22  | 17°17 | 6°51  | 21°10 | 10°36 | 16°43 | 7°19 | 10°25 | 27°30 |
| F 30 | 18 32 24 | 8♁6'30   | 8♁8   | 13♁49 | 18♁54 | 7♁18  | 21♁15 | 10♁38 | 16♁43 | 7♁20 | 10♁25 | 27♁31 |

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SWISS EPHEMERIS for the year 1741  
heliocentric

JULY 1741

00:00 UT

| Day  | Sid.t    | Terra    | ☾     | ♃     | ♄     | ♅     | ♆     | ♁     | ♂     | ♆    | ♁     | ♁     |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| S 1  | 18 36 20 | 9♁ 3'41  | 9♁ 7  | 18♃ 7 | 20♄31 | 7♁46  | 21♁19 | 10♁41 | 16♁44 | 7♁20 | 10♁26 | 27♁33 |
| S 2  | 18 40 17 | 10° 0'51 | 10° 6 | 22°18 | 22° 9 | 8°13  | 21°24 | 10°43 | 16°45 | 7°20 | 10°26 | 27°34 |
| M 3  | 18 44 13 | 10°58'02 | 11° 5 | 26°20 | 23°46 | 8°40  | 21°29 | 10°45 | 16°45 | 7°21 | 10°26 | 27°36 |
| T 4  | 18 48 10 | 11°55'13 | 12° 3 | 0♁16  | 25°23 | 9° 7  | 21°34 | 10°47 | 16°46 | 7°21 | 10°27 | 27°37 |
| W 5  | 18 52 7  | 12°52'24 | 13° 1 | 4° 5  | 27° 1 | 9°35  | 21°39 | 10°49 | 16°47 | 7°21 | 10°27 | 27°38 |
| T 6  | 18 56 3  | 13°49'36 | 13°58 | 7°47  | 28°38 | 10° 2 | 21°44 | 10°51 | 16°47 | 7°22 | 10°28 | 27°40 |
| F 7  | 19 0 0   | 14°46'48 | 14°55 | 11°23 | 0♁16  | 10°30 | 21°49 | 10°54 | 16°48 | 7°22 | 10°28 | 27°41 |
| S 8  | 19 3 56  | 15°44'01 | 15°51 | 14°54 | 1°53  | 10°57 | 21°54 | 10°56 | 16°49 | 7°23 | 10°29 | 27°43 |
| S 9  | 19 7 53  | 16°41'14 | 16°48 | 18°20 | 3°31  | 11°24 | 21°59 | 10°58 | 16°49 | 7°23 | 10°29 | 27°44 |
| M10  | 19 11 49 | 17°38'28 | 17°43 | 21°41 | 5° 8  | 11°52 | 22° 4 | 11° 0 | 16°50 | 7°23 | 10°29 | 27°46 |
| T 11 | 19 15 46 | 18°35'43 | 18°39 | 24°58 | 6°46  | 12°19 | 22° 9 | 11° 2 | 16°51 | 7°24 | 10°30 | 27°47 |
| W12  | 19 19 42 | 19°32'58 | 19°35 | 28°10 | 8°23  | 12°47 | 22°13 | 11° 5 | 16°51 | 7°24 | 10°30 | 27°48 |
| T 13 | 19 23 39 | 20°30'13 | 20°30 | 1♁19  | 10° 1 | 13°15 | 22°18 | 11° 7 | 16°52 | 7°24 | 10°31 | 27°50 |
| F 14 | 19 27 36 | 21°27'29 | 21°25 | 4°24  | 11°38 | 13°42 | 22°23 | 11° 9 | 16°53 | 7°25 | 10°31 | 27°51 |
| S 15 | 19 31 32 | 22°24'45 | 22°21 | 7°27  | 13°16 | 14°10 | 22°28 | 11°11 | 16°53 | 7°25 | 10°32 | 27°53 |
| S 16 | 19 35 29 | 23°22'01 | 23°17 | 10°26 | 14°53 | 14°37 | 22°33 | 11°13 | 16°54 | 7°26 | 10°32 | 27°54 |
| M17  | 19 39 25 | 24°19'18 | 24°13 | 13°23 | 16°31 | 15° 5 | 22°38 | 11°16 | 16°55 | 7°26 | 10°32 | 27°56 |
| T 18 | 19 43 22 | 25°16'35 | 25° 9 | 16°18 | 18° 8 | 15°33 | 22°43 | 11°18 | 16°55 | 7°26 | 10°33 | 27°57 |
| W19  | 19 47 18 | 26°13'52 | 26° 5 | 19°10 | 19°46 | 16° 1 | 22°48 | 11°20 | 16°56 | 7°27 | 10°33 | 27°59 |
| T 20 | 19 51 15 | 27°11'10 | 27° 2 | 22° 1 | 21°24 | 16°28 | 22°53 | 11°22 | 16°57 | 7°27 | 10°34 | 28° 0 |
| F 21 | 19 55 11 | 28° 8'28 | 27°59 | 24°50 | 23° 1 | 16°56 | 22°58 | 11°24 | 16°57 | 7°27 | 10°34 | 28° 1 |
| S 22 | 19 59 8  | 29° 5'46 | 28°57 | 27°38 | 24°39 | 17°24 | 23° 2 | 11°27 | 16°58 | 7°28 | 10°34 | 28° 3 |
| S 23 | 20 3 5   | 0♁ 3'05  | 29°55 | 0♁25  | 26°16 | 17°52 | 23° 7 | 11°29 | 16°59 | 7°28 | 10°35 | 28° 4 |
| M24  | 20 7 1   | 1° 0'25  | 0♁53  | 3°11  | 27°54 | 18°20 | 23°12 | 11°31 | 16°59 | 7°28 | 10°35 | 28° 6 |
| T 25 | 20 10 58 | 1°57'45  | 1°52  | 5°57  | 29°31 | 18°48 | 23°17 | 11°33 | 17° 0 | 7°29 | 10°36 | 28° 7 |
| W26  | 20 14 54 | 2°55'05  | 2°51  | 8°41  | 1♁ 9  | 19°16 | 23°22 | 11°35 | 17° 1 | 7°29 | 10°36 | 28° 9 |
| T 27 | 20 18 51 | 3°52'27  | 3°50  | 11°26 | 2°46  | 19°44 | 23°27 | 11°37 | 17° 2 | 7°30 | 10°37 | 28°10 |
| F 28 | 20 22 47 | 4°49'49  | 4°49  | 14°11 | 4°24  | 20°12 | 23°32 | 11°40 | 17° 2 | 7°30 | 10°37 | 28°12 |
| S 29 | 20 26 44 | 5°47'12  | 5°48  | 16°56 | 6° 1  | 20°40 | 23°37 | 11°42 | 17° 3 | 7°30 | 10°37 | 28°13 |
| S 30 | 20 30 40 | 6°44'35  | 6°48  | 19°41 | 7°39  | 21° 8 | 23°42 | 11°44 | 17° 4 | 7°31 | 10°38 | 28°14 |
| M31  | 20 34 37 | 7♁42'00  | 7♁47  | 22♁27 | 9♁16  | 21♁36 | 23♁47 | 11♁46 | 17♁ 4 | 7♁31 | 10♁38 | 28♁16 |

Delta T = 11.18 sec.

Greg. Calendar

AUGUST 1741

00:00 UT

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

Delta T = 11.18 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1741  
heliocentric

SEPTEMBER 1741

00:00 UT

| Day  | Sid.t    | Terra    | ☾     | ♃     | ♄     | ♅      | ♆     | ♁     | ♂     | ♆    | ♁      | ♃       |
|------|----------|----------|-------|-------|-------|--------|-------|-------|-------|------|--------|---------|
| F 1  | 22 40 47 | 8°30'42  | 8°39  | 21°15 | 0m.58 | 6m.57  | 26°23 | 12°56 | 17°26 | 7°43 | 10m.52 | 29°11 2 |
| S 2  | 22 44 43 | 9°28'53  | 9°37  | 26°50 | 2°35  | 7°27   | 26°28 | 12°58 | 17°26 | 7°43 | 10°52  | 29° 4   |
| S 3  | 22 48 40 | 10°27'07 | 10°36 | 28°33 | 4°11  | 7°56   | 26°33 | 13° 1 | 17°27 | 7°43 | 10°53  | 29° 5   |
| M 4  | 22 52 36 | 11°25'22 | 11°34 | 8°24  | 5°47  | 8°26   | 26°37 | 13° 3 | 17°28 | 7°44 | 10°53  | 29° 7   |
| T 5  | 22 56 33 | 12°23'39 | 12°31 | 14°23 | 7°23  | 8°55   | 26°42 | 13° 5 | 17°28 | 7°44 | 10°54  | 29° 8   |
| W 6  | 23 0 30  | 13°21'58 | 13°28 | 20°28 | 8°59  | 9°25   | 26°47 | 13° 7 | 17°29 | 7°45 | 10°54  | 29°10   |
| T 7  | 23 4 26  | 14°20'20 | 14°25 | 26°38 | 10°35 | 9°55   | 26°52 | 13° 9 | 17°30 | 7°45 | 10°54  | 29°11   |
| F 8  | 23 8 23  | 15°18'43 | 15°22 | 22°53 | 12°11 | 10°24  | 26°57 | 13°11 | 17°30 | 7°45 | 10°55  | 29°13   |
| S 9  | 23 12 19 | 16°17'08 | 16°19 | 9°10  | 13°47 | 10°54  | 27° 2 | 13°14 | 17°31 | 7°46 | 10°55  | 29°14   |
| S 10 | 23 16 16 | 17°15'35 | 17°16 | 15°29 | 15°23 | 11°24  | 27° 7 | 13°16 | 17°32 | 7°46 | 10°56  | 29°16   |
| M 11 | 23 20 12 | 18°14'04 | 18°12 | 21°48 | 16°59 | 11°54  | 27°11 | 13°18 | 17°32 | 7°46 | 10°56  | 29°17   |
| T 12 | 23 24 9  | 19°12'35 | 19° 9 | 28° 6 | 18°35 | 12°24  | 27°16 | 13°20 | 17°33 | 7°47 | 10°57  | 29°19   |
| W 13 | 23 28 5  | 20°11'07 | 20° 6 | 48°20 | 20°10 | 12°54  | 27°21 | 13°22 | 17°34 | 7°47 | 10°57  | 29°20   |
| T 14 | 23 32 2  | 21° 9'41 | 21° 3 | 10°30 | 21°46 | 13°24  | 27°26 | 13°25 | 17°35 | 7°47 | 10°57  | 29°22   |
| F 15 | 23 35 58 | 22° 8'17 | 22° 1 | 16°35 | 23°22 | 13°54  | 27°31 | 13°27 | 17°35 | 7°48 | 10°58  | 29°23   |
| S 16 | 23 39 55 | 23° 6'55 | 22°59 | 22°32 | 24°58 | 14°24  | 27°36 | 13°29 | 17°36 | 7°48 | 10°58  | 29°24   |
| S 17 | 23 43 52 | 24° 5'35 | 23°57 | 28°22 | 26°33 | 14°54  | 27°41 | 13°31 | 17°37 | 7°49 | 10°59  | 29°26   |
| M 18 | 23 47 48 | 25° 4'16 | 24°55 | 4° 4  | 28° 9 | 15°24  | 27°46 | 13°33 | 17°37 | 7°49 | 10°59  | 29°27   |
| T 19 | 23 51 45 | 26° 2'59 | 25°54 | 9°36  | 29°44 | 15°55  | 27°50 | 13°36 | 17°38 | 7°49 | 11° 0  | 29°29   |
| W 20 | 23 55 41 | 27° 1'44 | 26°54 | 14°59 | 17°20 | 16°25  | 27°55 | 13°38 | 17°39 | 7°50 | 11° 0  | 29°30   |
| T 21 | 23 59 38 | 28° 0'31 | 27°53 | 20°12 | 2°55  | 16°55  | 28° 0 | 13°40 | 17°39 | 7°50 | 11° 0  | 29°32   |
| F 22 | 0 3 34   | 28°59'19 | 28°54 | 25°16 | 4°31  | 17°26  | 28° 5 | 13°42 | 17°40 | 7°50 | 11° 1  | 29°33   |
| S 23 | 0 7 31   | 29°58'09 | 29°54 | 0m.10 | 6° 6  | 17°56  | 28°10 | 13°44 | 17°41 | 7°51 | 11° 1  | 29°35   |
| S 24 | 0 11 27  | 0°57'00  | 0°55  | 4°55  | 7°41  | 18°27  | 28°15 | 13°46 | 17°41 | 7°51 | 11° 2  | 29°36   |
| M 25 | 0 15 24  | 1°55'54  | 1°56  | 9°30  | 9°17  | 18°57  | 28°20 | 13°49 | 17°42 | 7°51 | 11° 2  | 29°38   |
| T 26 | 0 19 21  | 2°54'50  | 2°57  | 13°57 | 10°52 | 19°28  | 28°24 | 13°51 | 17°43 | 7°52 | 11° 3  | 29°39   |
| W 27 | 0 23 17  | 3°53'47  | 3°58  | 18°15 | 12°27 | 19°59  | 28°29 | 13°53 | 17°43 | 7°52 | 11° 3  | 29°41   |
| T 28 | 0 27 14  | 4°52'47  | 4°58  | 22°25 | 14° 2 | 20°29  | 28°34 | 13°55 | 17°44 | 7°53 | 11° 3  | 29°42   |
| F 29 | 0 31 10  | 5°51'50  | 5°59  | 26°28 | 15°38 | 21° 0  | 28°39 | 13°57 | 17°45 | 7°53 | 11° 4  | 29°44   |
| S 30 | 0 35 7   | 6°50'55  | 6°59  | 0.23  | 17.13 | 21m.31 | 28.44 | 14.0  | 17.45 | 7.53 | 11m.4  | 29.45   |

Delta T = 11.18 sec.

Greg. Calendar

OCTOBER 1741

00:00 UT

| Day  | Sid.t   | Terra    | ☾     | ♃     | ♄     | ♅     | ♆     | ♁     | ♂     | ♆    | ♁      | ♃     |
|------|---------|----------|-------|-------|-------|-------|-------|-------|-------|------|--------|-------|
| S 1  | 0 39 3  | 7°50'02  | 7°59  | 4.12  | 18.48 | 22m.2 | 28.49 | 14.0  | 17.46 | 7.54 | 11m.5  | 29.47 |
| M 2  | 0 43 0  | 8°49'11  | 8°58  | 7°54  | 20°23 | 22°33 | 28°54 | 14° 4 | 17°47 | 7°54 | 11° 5  | 29°48 |
| T 3  | 0 46 56 | 9°48'23  | 9°57  | 11°30 | 21°58 | 23° 4 | 28°58 | 14° 6 | 17°47 | 7°54 | 11° 5  | 29°50 |
| W 4  | 0 50 53 | 10°47'37 | 10°56 | 15° 1 | 23°33 | 23°35 | 29° 3 | 14° 8 | 17°48 | 7°55 | 11° 6  | 29°51 |
| T 5  | 0 54 50 | 11°46'53 | 11°54 | 18°27 | 25° 8 | 24° 6 | 29° 8 | 14°10 | 17°49 | 7°55 | 11° 6  | 29°53 |
| F 6  | 0 58 46 | 12°46'12 | 12°52 | 21°47 | 26°43 | 24°37 | 29°13 | 14°13 | 17°49 | 7°55 | 11° 7  | 29°54 |
| S 7  | 1 2 43  | 13°45'32 | 13°50 | 25° 4 | 28°18 | 25° 8 | 29°18 | 14°15 | 17°50 | 7°56 | 11° 7  | 29°55 |
| S 8  | 1 6 39  | 14°44'55 | 14°48 | 28°16 | 29°53 | 25°39 | 29°23 | 14°17 | 17°51 | 7°56 | 11° 8  | 29°57 |
| M 9  | 1 10 36 | 15°44'20 | 15°46 | 1m.25 | 1.28  | 26°11 | 29°27 | 14°19 | 17°51 | 7°57 | 11° 8  | 29°58 |
| T 10 | 1 14 32 | 16°43'47 | 16°43 | 4°30  | 3° 3  | 26°42 | 29°32 | 14°21 | 17°52 | 7°57 | 11° 8  | 29°59 |
| W 11 | 1 18 29 | 17°43'16 | 17°41 | 7°32  | 4°38  | 27°13 | 29°37 | 14°24 | 17°53 | 7°57 | 11° 9  | 0.1   |
| T 12 | 1 22 25 | 18°42'47 | 18°39 | 10°32 | 6°13  | 27°45 | 29°42 | 14°26 | 17°53 | 7°58 | 11° 9  | 0° 3  |
| F 13 | 1 26 22 | 19°42'21 | 19°37 | 13°29 | 7°48  | 28°16 | 29°47 | 14°28 | 17°54 | 7°58 | 11°10  | 0° 4  |
| S 14 | 1 30 19 | 20°41'56 | 20°35 | 16°23 | 9°22  | 28°48 | 29°52 | 14°30 | 17°55 | 7°58 | 11°10  | 0° 6  |
| S 15 | 1 34 15 | 21°41'33 | 21°34 | 19°16 | 10°57 | 29°19 | 29°57 | 14°32 | 17°55 | 7°59 | 11°11  | 0° 7  |
| M 16 | 1 38 12 | 22°41'11 | 22°33 | 22° 6 | 12°32 | 29°51 | 0.0   | 14°34 | 17°56 | 7°59 | 11°11  | 0° 9  |
| T 17 | 1 42 8  | 23°40'52 | 23°32 | 24°56 | 14° 7 | 0.23  | 0° 6  | 14°37 | 17°57 | 7°59 | 11°11  | 0°10  |
| W 18 | 1 46 5  | 24°40'34 | 24°32 | 27°44 | 15°42 | 0°55  | 0°11  | 14°39 | 17°57 | 8° 0 | 11°12  | 0°12  |
| T 19 | 1 50 1  | 25°40'18 | 25°32 | 0.31  | 1.17  | 1°27  | 0°16  | 14°41 | 17°58 | 8° 0 | 11°12  | 0°13  |
| F 20 | 1 53 58 | 26°40'03 | 26°33 | 3°17  | 18°52 | 1°58  | 0°21  | 14°43 | 17°59 | 8° 1 | 11°13  | 0°15  |
| S 21 | 1 57 54 | 27°39'51 | 27°34 | 6° 2  | 20°26 | 2°30  | 0°26  | 14°45 | 17°59 | 8° 1 | 11°13  | 0°16  |
| S 22 | 2 1 51  | 28°39'39 | 28°35 | 8°47  | 22° 1 | 3° 2  | 0°30  | 14°47 | 18° 0 | 8° 1 | 11°14  | 0°18  |
| M 23 | 2 5 48  | 29°39'30 | 29°37 | 11°31 | 23°36 | 3°34  | 0°35  | 14°50 | 18° 1 | 8° 2 | 11°14  | 0°19  |
| T 24 | 2 9 44  | 0.39'22  | 0.39  | 14°16 | 25°11 | 4° 7  | 0°40  | 14°52 | 18° 1 | 8° 2 | 11°14  | 0°21  |
| W 25 | 2 13 41 | 1°39'17  | 1°40  | 17° 1 | 26°46 | 4°39  | 0°45  | 14°54 | 18° 2 | 8° 2 | 11°15  | 0°22  |
| T 26 | 2 17 37 | 2°39'13  | 2°42  | 19°46 | 28°21 | 5°11  | 0°50  | 14°56 | 18° 3 | 8° 3 | 11°15  | 0°24  |
| F 27 | 2 21 34 | 3°39'12  | 3°44  | 22°32 | 29°55 | 5°43  | 0°55  | 14°58 | 18° 3 | 8° 3 | 11°16  | 0°25  |
| S 28 | 2 25 30 | 4°39'12  | 4°46  | 25°18 | 1.30  | 6°16  | 0°59  | 15° 1 | 18° 4 | 8° 4 | 11°16  | 0°27  |
| S 29 | 2 29 27 | 5°39'15  | 5°47  | 28° 6 | 3° 5  | 6°48  | 1° 4  | 15° 3 | 18° 5 | 8° 4 | 11°16  | 0°28  |
| M 30 | 2 33 23 | 6°39'20  | 6°48  | 0.55  | 4.40  | 7°20  | 1° 9  | 15° 5 | 18° 5 | 8° 4 | 11°17  | 0°30  |
| T 31 | 2 37 20 | 7.39'27  | 7.48  | 3.45  | 6.15  | 7.53  | 1.0   | 15.0  | 18.6  | 8.5  | 11m.17 | 0.31  |

Delta T = 11.18 sec.

Greg. Calendar

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**SWISS EPHEMERIS for the year 1741**  
**heliocentric**

**NOVEMBER 1741**

**00:00 UT**

| Day  | Sid.t   | Terra    | ☾     | ♃     | ♄     | ♅     | ♆    | ♁     | ♂     | ♆    | ♁     | ♃    |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|-------|------|
| W 1  | 2 41 17 | 8♃39'36  | 8♃49  | 6♃37  | 7♁50  | 8♂25  | 1♁19 | 15♁ 9 | 18♃ 7 | 8♃ 5 | 11♁18 | 0♃33 |
| T 2  | 2 45 13 | 9°39'48  | 9°49  | 9°30  | 9°25  | 8°58  | 1°24 | 15°11 | 18° 7 | 8° 5 | 11°18 | 0°34 |
| F 3  | 2 49 10 | 10°40'01 | 10°48 | 12°26 | 10°59 | 9°31  | 1°28 | 15°14 | 18° 8 | 8° 6 | 11°19 | 0°36 |
| S 4  | 2 53 6  | 11°40'16 | 11°47 | 15°24 | 12°34 | 10° 3 | 1°33 | 15°16 | 18° 9 | 8° 6 | 11°19 | 0°37 |
| S 5  | 2 57 3  | 12°40'33 | 12°46 | 18°25 | 14° 9 | 10°36 | 1°38 | 15°18 | 18° 9 | 8° 6 | 11°19 | 0°39 |
| M 6  | 3 0 59  | 13°40'52 | 13°45 | 21°29 | 15°44 | 11° 9 | 1°43 | 15°20 | 18°10 | 8° 7 | 11°20 | 0°40 |
| T 7  | 3 4 56  | 14°41'13 | 14°44 | 24°35 | 17°19 | 11°42 | 1°48 | 15°22 | 18°11 | 8° 7 | 11°20 | 0°42 |
| W 8  | 3 8 52  | 15°41'36 | 15°42 | 27°46 | 18°54 | 12°15 | 1°53 | 15°25 | 18°11 | 8° 8 | 11°21 | 0°43 |
| T 9  | 3 12 49 | 16°42'00 | 16°41 | 0♁59  | 20°29 | 12°48 | 1°57 | 15°27 | 18°12 | 8° 8 | 11°21 | 0°45 |
| F 10 | 3 16 45 | 17°42'26 | 17°40 | 4°17  | 22° 4 | 13°21 | 2° 2 | 15°29 | 18°13 | 8° 8 | 11°22 | 0°46 |
| S 11 | 3 20 42 | 18°42'54 | 18°39 | 7°39  | 23°39 | 13°54 | 2° 7 | 15°31 | 18°14 | 8° 9 | 11°22 | 0°48 |
| S 12 | 3 24 39 | 19°43'23 | 19°38 | 11° 6 | 25°14 | 14°27 | 2°12 | 15°33 | 18°14 | 8° 9 | 11°22 | 0°49 |
| M13  | 3 28 35 | 20°43'54 | 20°37 | 14°38 | 26°49 | 15° 1 | 2°17 | 15°35 | 18°15 | 8° 9 | 11°23 | 0°51 |
| T 14 | 3 32 32 | 21°44'26 | 21°36 | 18°14 | 28°24 | 15°34 | 2°22 | 15°38 | 18°16 | 8°10 | 11°23 | 0°52 |
| W15  | 3 36 28 | 22°45'00 | 22°36 | 21°57 | 29°59 | 16° 7 | 2°26 | 15°40 | 18°16 | 8°10 | 11°24 | 0°54 |
| T 16 | 3 40 25 | 23°45'34 | 23°37 | 25°46 | 1♃34  | 16°41 | 2°31 | 15°42 | 18°17 | 8°10 | 11°24 | 0°55 |
| F 17 | 3 44 21 | 24°46'10 | 24°38 | 29°41 | 3° 9  | 17°14 | 2°36 | 15°44 | 18°18 | 8°11 | 11°25 | 0°57 |
| S 18 | 3 48 18 | 25°46'47 | 25°39 | 3♃43  | 4°44  | 17°48 | 2°41 | 15°46 | 18°18 | 8°11 | 11°25 | 0°58 |
| S 19 | 3 52 15 | 26°47'25 | 26°41 | 7°52  | 6°19  | 18°21 | 2°46 | 15°48 | 18°19 | 8°12 | 11°25 | 1° 0 |
| M20  | 3 56 11 | 27°48'04 | 27°43 | 12° 8 | 7°55  | 18°55 | 2°51 | 15°51 | 18°20 | 8°12 | 11°26 | 1° 1 |
| T 21 | 4 0 8   | 28°48'44 | 28°45 | 16°32 | 9°30  | 19°29 | 2°55 | 15°53 | 18°20 | 8°12 | 11°26 | 1° 3 |
| W22  | 4 4 4   | 29°49'25 | 29°48 | 21° 5 | 11° 5 | 20° 2 | 3° 0 | 15°55 | 18°21 | 8°13 | 11°27 | 1° 4 |
| T 23 | 4 8 1   | 0♁50'08  | 0♁50  | 25°46 | 12°40 | 20°36 | 3° 5 | 15°57 | 18°22 | 8°13 | 11°27 | 1° 6 |
| F 24 | 4 11 57 | 1°50'53  | 1°53  | 0♁36  | 14°15 | 21°10 | 3°10 | 15°59 | 18°22 | 8°13 | 11°28 | 1° 7 |
| S 25 | 4 15 54 | 2°51'38  | 2°56  | 5°35  | 15°51 | 21°44 | 3°15 | 16° 2 | 18°23 | 8°14 | 11°28 | 1° 9 |
| S 26 | 4 19 50 | 3°52'25  | 3°58  | 10°43 | 17°26 | 22°18 | 3°19 | 16° 4 | 18°24 | 8°14 | 11°28 | 1°10 |
| M27  | 4 23 47 | 4°53'14  | 5° 0  | 16° 0 | 19° 1 | 22°52 | 3°24 | 16° 6 | 18°24 | 8°14 | 11°29 | 1°12 |
| T 28 | 4 27 44 | 5°54'04  | 6° 2  | 21°26 | 20°37 | 23°26 | 3°29 | 16° 8 | 18°25 | 8°15 | 11°29 | 1°13 |
| W29  | 4 31 40 | 6°54'55  | 7° 4  | 27° 1 | 22°12 | 24° 0 | 3°34 | 16°10 | 18°26 | 8°15 | 11°30 | 1°15 |
| T 30 | 4 35 37 | 7♁55'47  | 8♁ 5  | 2♃44  | 23♃47 | 24♂35 | 3♁39 | 16♁12 | 18♃26 | 8♃16 | 11♁30 | 1♃16 |

Delta T = 11.18 sec. Greg. Calendar

**DECEMBER 1741**

**00:00 UT**

| Day  | Sid.t   | Terra    | ☾     | ♃     | ♄     | ♅     | ♆    | ♁     | ♂     | ♆    | ♁     | ♃    |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|-------|------|
| F 1  | 4 39 33 | 8♁56'41  | 9♁ 6  | 8♃36  | 25♃23 | 25♂ 9 | 3♁44 | 16♁15 | 18♃27 | 8♃16 | 11♁31 | 1♃18 |
| S 2  | 4 43 30 | 9°57'37  | 10° 6 | 14°34 | 26°58 | 25°43 | 3°48 | 16°17 | 18°28 | 8°16 | 11°31 | 1°19 |
| S 3  | 4 47 26 | 10°58'33 | 11° 7 | 20°39 | 28°34 | 26°18 | 3°53 | 16°19 | 18°28 | 8°17 | 11°31 | 1°21 |
| M 4  | 4 51 23 | 11°59'31 | 12° 6 | 26°50 | 0♁ 9  | 26°52 | 3°58 | 16°21 | 18°29 | 8°17 | 11°32 | 1°22 |
| T 5  | 4 55 19 | 13° 0'30 | 13° 6 | 3♁ 5  | 1°44  | 27°27 | 4° 3 | 16°23 | 18°30 | 8°17 | 11°32 | 1°24 |
| W 6  | 4 59 16 | 14° 1'30 | 14° 5 | 9°22  | 3°20  | 28° 1 | 4° 8 | 16°25 | 18°30 | 8°18 | 11°33 | 1°25 |
| T 7  | 5 3 13  | 15° 2'31 | 15° 5 | 15°41 | 4°55  | 28°36 | 4°12 | 16°28 | 18°31 | 8°18 | 11°33 | 1°27 |
| F 8  | 5 7 9   | 16° 3'33 | 16° 4 | 22° 0 | 6°31  | 29°10 | 4°17 | 16°30 | 18°32 | 8°18 | 11°33 | 1°28 |
| S 9  | 5 11 6  | 17° 4'36 | 17° 3 | 28°18 | 8° 7  | 29°45 | 4°22 | 16°32 | 18°32 | 8°19 | 11°34 | 1°30 |
| S 10 | 5 15 2  | 18° 5'39 | 18° 2 | 4♃32  | 9°42  | 0♃20  | 4°27 | 16°34 | 18°33 | 8°19 | 11°34 | 1°31 |
| M11  | 5 18 59 | 19° 6'44 | 19° 2 | 10°42 | 11°18 | 0°55  | 4°32 | 16°36 | 18°34 | 8°20 | 11°35 | 1°33 |
| T 12 | 5 22 55 | 20° 7'48 | 20° 2 | 16°46 | 12°54 | 1°30  | 4°37 | 16°39 | 18°34 | 8°20 | 11°35 | 1°34 |
| W13  | 5 26 52 | 21° 8'54 | 21° 1 | 22°43 | 14°29 | 2° 5  | 4°41 | 16°41 | 18°35 | 8°20 | 11°36 | 1°36 |
| T 14 | 5 30 48 | 22° 9'59 | 22° 2 | 28°33 | 16° 5 | 2°40  | 4°46 | 16°43 | 18°36 | 8°21 | 11°36 | 1°37 |
| F 15 | 5 34 45 | 23°11'05 | 23° 2 | 4♁14  | 17°41 | 3°15  | 4°51 | 16°45 | 18°36 | 8°21 | 11°36 | 1°39 |
| S 16 | 5 38 42 | 24°12'11 | 24° 4 | 9°46  | 19°16 | 3°50  | 4°56 | 16°47 | 18°37 | 8°21 | 11°37 | 1°40 |
| S 17 | 5 42 38 | 25°13'18 | 25° 5 | 15° 9 | 20°52 | 4°25  | 5° 1 | 16°49 | 18°38 | 8°22 | 11°37 | 1°42 |
| M18  | 5 46 35 | 26°14'24 | 26° 7 | 20°22 | 22°28 | 5° 0  | 5° 5 | 16°52 | 18°38 | 8°22 | 11°38 | 1°43 |
| T 19 | 5 50 31 | 27°15'31 | 27°10 | 25°25 | 24° 4 | 5°36  | 5°10 | 16°54 | 18°39 | 8°23 | 11°38 | 1°45 |
| W20  | 5 54 28 | 28°16'38 | 28°12 | 0♁19  | 25°40 | 6°11  | 5°15 | 16°56 | 18°40 | 8°23 | 11°39 | 1°46 |
| T 21 | 5 58 24 | 29°17'45 | 29°15 | 5° 3  | 27°16 | 6°46  | 5°20 | 16°58 | 18°40 | 8°23 | 11°39 | 1°48 |
| F 22 | 6 2 21  | 0♃18'53  | 0♃18  | 9°39  | 28°51 | 7°22  | 5°25 | 17° 0 | 18°41 | 8°24 | 11°39 | 1°49 |
| S 23 | 6 6 17  | 1°20'01  | 1°21  | 14° 5 | 0♃27  | 7°57  | 5°29 | 17° 2 | 18°42 | 8°24 | 11°40 | 1°51 |
| S 24 | 6 10 14 | 2°21'09  | 2°24  | 18°23 | 2° 3  | 8°33  | 5°34 | 17° 5 | 18°42 | 8°24 | 11°40 | 1°52 |
| M25  | 6 14 11 | 3°22'18  | 3°27  | 22°33 | 3°39  | 9° 8  | 5°39 | 17° 7 | 18°43 | 8°25 | 11°41 | 1°54 |
| T 26 | 6 18 7  | 4°23'26  | 4°30  | 26°35 | 5°15  | 9°44  | 5°44 | 17° 9 | 18°44 | 8°25 | 11°41 | 1°56 |
| W27  | 6 22 4  | 5°24'35  | 5°32  | 0♁31  | 6°51  | 10°20 | 5°49 | 17°11 | 18°44 | 8°25 | 11°42 | 1°57 |
| T 28 | 6 26 0  | 6°25'45  | 6°34  | 4°19  | 8°28  | 10°55 | 5°53 | 17°13 | 18°45 | 8°26 | 11°42 | 1°59 |
| F 29 | 6 29 57 | 7°26'55  | 7°36  | 8° 1  | 10° 4 | 11°31 | 5°58 | 17°16 | 18°46 | 8°26 | 11°42 | 2° 0 |
| S 30 | 6 33 53 | 8°28'05  | 8°37  | 11°37 | 11°40 | 12° 7 | 6° 3 | 17°18 | 18°46 | 8°27 | 11°43 | 2° 2 |
| S 31 | 6 37 50 | 9♃29'15  | 9♃38  | 15♁ 8 | 13♃16 | 12♃43 | 6♁ 8 | 17♁20 | 18♃47 | 8♃27 | 11♁43 | 2♃ 3 |

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