

SWISS EPHEMERIS for the year 1602
heliocentric

JANUARY 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|---------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| T 1 | 6 41 27 | 10 ⁵ 31'01 | 10 ⁵ 22 | 21 ^{II} 4 | 21 [♈] 8 | 15 [♉] 39 | 9 [♊] 59 | 14 [♋] 50 | 8 [♌] 5 | 0 [♍] 43 | 24 [♎] 26 | 0 [♏] 40 |
| W 2 | 6 45 24 | 11 [°] 32'11 | 11 [°] 23 | 27 [°] 21 | 22 [°] 45 | 16 [°] 6 | 10 [°] 4 | 14 [°] 51 | 8 [°] 5 | 0 [°] 44 | 24 [°] 26 | 0 [°] 42 |
| T 3 | 6 49 21 | 12 [°] 33'21 | 12 [°] 25 | 3 [♈] 34 | 24 [°] 21 | 16 [°] 32 | 10 [°] 8 | 14 [°] 53 | 8 [°] 6 | 0 [°] 44 | 24 [°] 26 | 0 [°] 45 |
| F 4 | 6 53 17 | 13 [°] 34'30 | 13 [°] 27 | 9 [°] 43 | 25 [°] 58 | 16 [°] 58 | 10 [°] 13 | 14 [°] 55 | 8 [°] 7 | 0 [°] 45 | 24 [°] 26 | 0 [°] 48 |
| S 5 | 6 57 14 | 14 [°] 35'38 | 14 [°] 30 | 15 [°] 46 | 27 [°] 34 | 17 [°] 25 | 10 [°] 17 | 14 [°] 57 | 8 [°] 7 | 0 [°] 45 | 24 [°] 26 | 0 [°] 50 |
| S 6 | 7 1 10 | 15 [°] 36'46 | 15 [°] 32 | 21 [°] 42 | 29 [°] 11 | 17 [°] 51 | 10 [°] 22 | 14 [°] 59 | 8 [°] 8 | 0 [°] 45 | 24 [°] 26 | 0 [°] 53 |
| M 7 | 7 5 7 | 16 [°] 37'54 | 16 [°] 35 | 27 [°] 30 | 0 [♈] 47 | 18 [°] 17 | 10 [°] 26 | 15 [°] 1 | 8 [°] 9 | 0 [°] 46 | 24 [°] 27 | 0 [°] 55 |
| T 8 | 7 9 3 | 17 [°] 39'01 | 17 [°] 39 | 3 [♈] 9 | 2 [°] 23 | 18 [°] 44 | 10 [°] 31 | 15 [°] 3 | 8 [°] 9 | 0 [°] 46 | 24 [°] 27 | 0 [°] 58 |
| W 9 | 7 13 0 | 18 [°] 40'08 | 18 [°] 42 | 8 [°] 39 | 3 [°] 59 | 19 [°] 10 | 10 [°] 35 | 15 [°] 4 | 8 [°] 10 | 0 [°] 46 | 24 [°] 27 | 1 [°] 1 |
| T 10 | 7 16 56 | 19 [°] 41'14 | 19 [°] 45 | 14 [°] 0 | 5 [°] 35 | 19 [°] 36 | 10 [°] 40 | 15 [°] 6 | 8 [°] 11 | 0 [°] 47 | 24 [°] 27 | 1 [°] 3 |
| F 11 | 7 20 53 | 20 [°] 42'19 | 20 [°] 48 | 19 [°] 11 | 7 [°] 11 | 20 [°] 2 | 10 [°] 44 | 15 [°] 8 | 8 [°] 11 | 0 [°] 47 | 24 [°] 27 | 1 [°] 6 |
| S 12 | 7 24 50 | 21 [°] 43'24 | 21 [°] 50 | 24 [°] 13 | 8 [°] 47 | 20 [°] 29 | 10 [°] 49 | 15 [°] 10 | 8 [°] 12 | 0 [°] 47 | 24 [°] 27 | 1 [°] 9 |
| S 13 | 7 28 46 | 22 [°] 44'29 | 22 [°] 52 | 29 [°] 5 | 10 [°] 23 | 20 [°] 55 | 10 [°] 54 | 15 [°] 12 | 8 [°] 13 | 0 [°] 48 | 24 [°] 28 | 1 [°] 11 |
| M14 | 7 32 43 | 23 [°] 45'34 | 23 [°] 54 | 3 [♈] 47 | 11 [°] 59 | 21 [°] 21 | 10 [°] 58 | 15 [°] 14 | 8 [°] 13 | 0 [°] 48 | 24 [°] 28 | 1 [°] 14 |
| T 15 | 7 36 39 | 24 [°] 46'38 | 24 [°] 56 | 8 [°] 21 | 13 [°] 35 | 21 [°] 48 | 11 [°] 3 | 15 [°] 15 | 8 [°] 14 | 0 [°] 49 | 24 [°] 28 | 1 [°] 17 |
| W16 | 7 40 36 | 25 [°] 47'42 | 25 [°] 57 | 12 [°] 46 | 15 [°] 11 | 22 [°] 14 | 11 [°] 7 | 15 [°] 17 | 8 [°] 15 | 0 [°] 49 | 24 [°] 28 | 1 [°] 19 |
| T 17 | 7 44 32 | 26 [°] 48'45 | 26 [°] 57 | 17 [°] 2 | 16 [°] 47 | 22 [°] 40 | 11 [°] 12 | 15 [°] 19 | 8 [°] 15 | 0 [°] 49 | 24 [°] 28 | 1 [°] 22 |
| F 18 | 7 48 29 | 27 [°] 49'48 | 27 [°] 58 | 21 [°] 11 | 18 [°] 23 | 23 [°] 6 | 11 [°] 16 | 15 [°] 21 | 8 [°] 16 | 0 [°] 50 | 24 [°] 28 | 1 [°] 25 |
| S 19 | 7 52 25 | 28 [°] 50'51 | 28 [°] 58 | 25 [°] 11 | 19 [°] 58 | 23 [°] 33 | 11 [°] 21 | 15 [°] 23 | 8 [°] 17 | 0 [°] 50 | 24 [°] 29 | 1 [°] 27 |
| S 20 | 7 56 22 | 29 [°] 51'52 | 29 [°] 58 | 29 [°] 5 | 21 [°] 34 | 23 [°] 59 | 11 [°] 25 | 15 [°] 25 | 8 [°] 17 | 0 [°] 50 | 24 [°] 29 | 1 [°] 30 |
| M21 | 8 0 19 | 0 [♈] 52'53 | 0 [♈] 57 | 2 [♈] 52 | 23 [°] 10 | 24 [°] 25 | 11 [°] 30 | 15 [°] 27 | 8 [°] 18 | 0 [°] 51 | 24 [°] 29 | 1 [°] 33 |
| T 22 | 8 4 15 | 1 [°] 53'54 | 1 [°] 56 | 6 [°] 33 | 24 [°] 45 | 24 [°] 51 | 11 [°] 34 | 15 [°] 28 | 8 [°] 19 | 0 [°] 51 | 24 [°] 29 | 1 [°] 35 |
| W23 | 8 8 12 | 2 [°] 54'53 | 2 [°] 56 | 10 [°] 8 | 26 [°] 21 | 25 [°] 17 | 11 [°] 39 | 15 [°] 30 | 8 [°] 19 | 0 [°] 51 | 24 [°] 29 | 1 [°] 38 |
| T 24 | 8 12 8 | 3 [°] 55'51 | 3 [°] 55 | 13 [°] 38 | 27 [°] 56 | 25 [°] 44 | 11 [°] 43 | 15 [°] 32 | 8 [°] 20 | 0 [°] 52 | 24 [°] 29 | 1 [°] 41 |
| F 25 | 8 16 5 | 4 [°] 56'48 | 4 [°] 54 | 17 [°] 2 | 29 [°] 32 | 26 [°] 10 | 11 [°] 48 | 15 [°] 34 | 8 [°] 21 | 0 [°] 52 | 24 [°] 29 | 1 [°] 43 |
| S 26 | 8 20 1 | 5 [°] 57'45 | 5 [°] 53 | 20 [°] 22 | 1 [♈] 7 | 26 [°] 36 | 11 [°] 53 | 15 [°] 36 | 8 [°] 21 | 0 [°] 52 | 24 [°] 30 | 1 [°] 46 |
| S 27 | 8 23 58 | 6 [°] 58'39 | 6 [°] 53 | 23 [°] 38 | 2 [°] 43 | 27 [°] 2 | 11 [°] 57 | 15 [°] 38 | 8 [°] 22 | 0 [°] 53 | 24 [°] 30 | 1 [°] 49 |
| M28 | 8 27 54 | 7 [°] 59'33 | 7 [°] 52 | 26 [°] 49 | 4 [°] 18 | 27 [°] 29 | 12 [°] 2 | 15 [°] 39 | 8 [°] 23 | 0 [°] 53 | 24 [°] 30 | 1 [°] 51 |
| T 29 | 8 31 51 | 9 [°] 0'25 | 8 [°] 52 | 29 [°] 57 | 5 [°] 54 | 27 [°] 55 | 12 [°] 6 | 15 [°] 41 | 8 [°] 23 | 0 [°] 54 | 24 [°] 30 | 1 [°] 54 |
| W30 | 8 35 48 | 10 [°] 1'16 | 9 [°] 53 | 3 [♈] 2 | 7 [°] 29 | 28 [°] 21 | 12 [°] 11 | 15 [°] 43 | 8 [°] 24 | 0 [°] 54 | 24 [°] 30 | 1 [°] 57 |
| T 31 | 8 39 44 | 11 [°] 2'05 | 10 [°] 53 | 6 [♈] 3 | 9 [♈] 4 | 28 [°] 47 | 12 [°] 15 | 15 [°] 45 | 8 [°] 25 | 0 [°] 54 | 24 [°] 30 | 1 [°] 59 |

Delta T = 115.71 sec. Greg. Calendar

FEBRUARY 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|----------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| F 1 | 8 43 41 | 12 [°] 2'53 | 11 [°] 54 | 9 [♈] 2 | 10 [♈] 39 | 29 [°] 13 | 12 [°] 20 | 15 [°] 47 | 8 [°] 25 | 0 [°] 55 | 24 [°] 31 | 2 [♈] 2 |
| S 2 | 8 47 37 | 13 [°] 3'39 | 12 [°] 56 | 11 [°] 58 | 12 [°] 15 | 29 [°] 40 | 12 [°] 24 | 15 [°] 49 | 8 [°] 26 | 0 [°] 55 | 24 [°] 31 | 2 [°] 5 |
| S 3 | 8 51 34 | 14 [°] 4'24 | 13 [°] 58 | 14 [°] 52 | 13 [°] 50 | 0 [♈] 6 | 12 [°] 29 | 15 [°] 51 | 8 [°] 27 | 0 [°] 55 | 24 [°] 31 | 2 [°] 7 |
| M 4 | 8 55 30 | 15 [°] 5'07 | 15 [°] 0 | 17 [°] 45 | 15 [°] 25 | 0 [°] 32 | 12 [°] 33 | 15 [°] 52 | 8 [°] 27 | 0 [°] 56 | 24 [°] 31 | 2 [°] 10 |
| T 5 | 8 59 27 | 16 [°] 5'49 | 16 [°] 3 | 20 [°] 35 | 17 [°] 0 | 0 [°] 58 | 12 [°] 38 | 15 [°] 54 | 8 [°] 28 | 0 [°] 56 | 24 [°] 31 | 2 [°] 13 |
| W 6 | 9 3 23 | 17 [°] 6'29 | 17 [°] 5 | 23 [°] 24 | 18 [°] 35 | 1 [°] 25 | 12 [°] 43 | 15 [°] 56 | 8 [°] 29 | 0 [°] 56 | 24 [°] 31 | 2 [°] 15 |
| T 7 | 9 7 20 | 18 [°] 7'07 | 18 [°] 8 | 26 [°] 12 | 20 [°] 10 | 1 [°] 51 | 12 [°] 47 | 15 [°] 58 | 8 [°] 29 | 0 [°] 57 | 24 [°] 32 | 2 [°] 18 |
| F 8 | 9 11 17 | 19 [°] 7'44 | 19 [°] 10 | 28 [°] 58 | 21 [°] 45 | 2 [°] 17 | 12 [°] 52 | 16 [°] 0 | 8 [°] 30 | 0 [°] 57 | 24 [°] 32 | 2 [°] 21 |
| S 9 | 9 15 13 | 20 [°] 8'20 | 20 [°] 13 | 1 [♈] 44 | 23 [°] 20 | 2 [°] 43 | 12 [°] 56 | 16 [°] 2 | 8 [°] 31 | 0 [°] 58 | 24 [°] 32 | 2 [°] 23 |
| S 10 | 9 19 10 | 21 [°] 8'54 | 21 [°] 15 | 4 [°] 29 | 24 [°] 55 | 3 [°] 9 | 13 [°] 1 | 16 [°] 4 | 8 [°] 31 | 0 [°] 58 | 24 [°] 32 | 2 [°] 26 |
| M11 | 9 23 6 | 22 [°] 9'28 | 22 [°] 17 | 7 [°] 14 | 26 [°] 30 | 3 [°] 36 | 13 [°] 5 | 16 [°] 5 | 8 [°] 32 | 0 [°] 58 | 24 [°] 32 | 2 [°] 29 |
| T 12 | 9 27 3 | 23 [°] 9'59 | 23 [°] 18 | 9 [°] 59 | 28 [°] 5 | 4 [°] 2 | 13 [°] 10 | 16 [°] 7 | 8 [°] 33 | 0 [°] 59 | 24 [°] 32 | 2 [°] 31 |
| W13 | 9 30 59 | 24 [°] 10'30 | 24 [°] 20 | 12 [°] 43 | 29 [°] 40 | 4 [°] 28 | 13 [°] 14 | 16 [°] 9 | 8 [°] 33 | 0 [°] 59 | 24 [°] 32 | 2 [°] 34 |
| T 14 | 9 34 56 | 25 [°] 10'59 | 25 [°] 20 | 15 [°] 28 | 1 [♈] 15 | 4 [°] 54 | 13 [°] 19 | 16 [°] 11 | 8 [°] 34 | 0 [°] 59 | 24 [°] 33 | 2 [°] 37 |
| F 15 | 9 38 52 | 26 [°] 11'27 | 26 [°] 21 | 18 [°] 14 | 2 [°] 50 | 5 [°] 21 | 13 [°] 23 | 16 [°] 13 | 8 [°] 35 | 1 [°] 0 | 24 [°] 33 | 2 [°] 39 |
| S 16 | 9 42 49 | 27 [°] 11'54 | 27 [°] 21 | 21 [°] 0 | 4 [°] 25 | 5 [°] 47 | 13 [°] 28 | 16 [°] 15 | 8 [°] 35 | 1 [°] 0 | 24 [°] 33 | 2 [°] 42 |
| S 17 | 9 46 46 | 28 [°] 12'19 | 28 [°] 20 | 23 [°] 46 | 6 [°] 0 | 6 [°] 13 | 13 [°] 32 | 16 [°] 16 | 8 [°] 36 | 1 [°] 0 | 24 [°] 33 | 2 [°] 45 |
| M18 | 9 50 42 | 29 [°] 12'42 | 29 [°] 19 | 26 [°] 34 | 7 [°] 34 | 6 [°] 39 | 13 [°] 37 | 16 [°] 18 | 8 [°] 37 | 1 [°] 1 | 24 [°] 33 | 2 [°] 47 |
| T 19 | 9 54 39 | 0 [♈] 13'05 | 0 [♈] 18 | 29 [°] 23 | 9 [°] 9 | 7 [°] 6 | 13 [°] 42 | 16 [°] 20 | 8 [°] 37 | 1 [°] 1 | 24 [°] 33 | 2 [°] 50 |
| W20 | 9 58 35 | 1 [°] 13'25 | 1 [°] 17 | 2 [♈] 14 | 10 [°] 44 | 7 [°] 32 | 13 [°] 46 | 16 [°] 22 | 8 [°] 38 | 1 [°] 1 | 24 [°] 34 | 2 [°] 53 |
| T 21 | 10 2 32 | 2 [°] 13'44 | 2 [°] 16 | 5 [°] 6 | 12 [°] 19 | 7 [°] 58 | 13 [°] 51 | 16 [°] 24 | 8 [°] 39 | 1 [°] 2 | 24 [°] 34 | 2 [°] 55 |
| F 22 | 10 6 28 | 3 [°] 14'01 | 3 [°] 14 | 8 [°] 0 | 13 [°] 54 | 8 [°] 25 | 13 [°] 55 | 16 [°] 26 | 8 [°] 39 | 1 [°] 2 | 24 [°] 34 | 2 [°] 58 |
| S 23 | 10 10 25 | 4 [°] 14'17 | 4 [°] 13 | 10 [°] 56 | 15 [°] 29 | 8 [°] 51 | 14 [°] 0 | 16 [°] 28 | 8 [°] 40 | 1 [°] 3 | 24 [°] 34 | 3 [°] 1 |
| S 24 | 10 14 21 | 5 [°] 14'30 | 5 [°] 11 | 13 [°] 55 | 17 [°] 3 | 9 [°] 17 | 14 [°] 4 | 16 [°] 29 | 8 [°] 41 | 1 [°] 3 | 24 [°] 34 | 3 [°] 3 |
| M25 | 10 18 18 | 6 [°] 14'42 | 6 [°] 10 | 16 [°] 56 | 18 [°] 38 | 9 [°] 43 | 14 [°] 9 | 16 [°] 31 | 8 [°] 41 | 1 [°] 3 | 24 [°] 34 | 3 [°] 6 |
| T 26 | 10 22 15 | 7 [°] 14'51 | 7 [°] 8 | 20 [°] 1 | 20 [°] 13 | 10 [°] 10 | 14 [°] 13 | 16 [°] 33 | 8 [°] 42 | 1 [°] 4 | 24 [°] 35 | 3 [°] 9 |
| W27 | 10 26 11 | 8 [°] 14'59 | 8 [°] 7 | 23 [°] 8 | 21 [°] 48 | 10 [°] 36 | 14 [°] 18 | 16 [°] 35 | 8 [°] 43 | 1 [°] 4 | 24 [°] 35 | 3 [°] 11 |
| T 28 | 10 30 8 | 9 [°] 15'04 | 9 [°] 7 | 26 [°] 19 | 23 [°] 23 | 11 [°] 2 | 14 [°] 22 | 16 [°] 37 | 8 [°] 43 | 1 [°] 4 | 24 [°] 35 | 3 [°] 14 |

SWISS EPHEMERIS for the year 1602
heliocentric

MARCH 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|----------|-----------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| F 1 | 10 34 4 | 10 ^m 15'08 | 10 ^m 7 | 29 ^o 34 | 24 ^o 57 | 11 ^m 29 | 14 ^o 27 | 16 ^m 39 | 8 ^o 44 | 1 ^m 5 | 24 ^o 35 | 3 ^m 17 |
| S 2 | 10 38 1 | 11°15'09 | 11° 7 | 2 ^o 52 | 26°32 | 11°55 | 14°32 | 16°40 | 8°45 | 1° 5 | 24°35 | 3°20 |
| S 3 | 10 41 57 | 12°15'08 | 12° 7 | 6°15 | 28° 7 | 12°21 | 14°36 | 16°42 | 8°45 | 1° 5 | 24°35 | 3°22 |
| M 4 | 10 45 54 | 13°15'05 | 13° 8 | 9°43 | 29°42 | 12°48 | 14°41 | 16°44 | 8°46 | 1° 6 | 24°36 | 3°25 |
| T 5 | 10 49 50 | 14°14'59 | 14° 9 | 13°16 | 1 ^o 17 | 13°14 | 14°45 | 16°46 | 8°47 | 1° 6 | 24°36 | 3°28 |
| W 6 | 10 53 47 | 15°14'51 | 15°11 | 16°54 | 2°52 | 13°41 | 14°50 | 16°48 | 8°47 | 1° 7 | 24°36 | 3°30 |
| T 7 | 10 57 44 | 16°14'41 | 16°12 | 20°38 | 4°26 | 14° 7 | 14°54 | 16°50 | 8°48 | 1° 7 | 24°36 | 3°33 |
| F 8 | 11 1 40 | 17°14'29 | 17°14 | 24°28 | 6° 1 | 14°33 | 14°59 | 16°52 | 8°49 | 1° 7 | 24°36 | 3°36 |
| S 9 | 11 5 37 | 18°14'15 | 18°16 | 28°25 | 7°36 | 15° 0 | 15° 3 | 16°53 | 8°49 | 1° 8 | 24°36 | 3°38 |
| S 10 | 11 9 33 | 19°13'59 | 19°18 | 2 ^o 28 | 9°11 | 15°26 | 15° 8 | 16°55 | 8°50 | 1° 8 | 24°36 | 3°41 |
| M 11 | 11 13 30 | 20°13'42 | 20°19 | 6°39 | 10°46 | 15°53 | 15°12 | 16°57 | 8°51 | 1° 8 | 24°37 | 3°44 |
| T 12 | 11 17 26 | 21°13'22 | 21°20 | 10°57 | 12°21 | 16°19 | 15°17 | 16°59 | 8°51 | 1° 9 | 24°37 | 3°46 |
| W 13 | 11 21 23 | 22°13'01 | 22°21 | 15°23 | 13°56 | 16°46 | 15°22 | 17° 1 | 8°52 | 1° 9 | 24°37 | 3°49 |
| T 14 | 11 25 19 | 23°12'37 | 23°21 | 19°58 | 15°31 | 17°12 | 15°26 | 17° 3 | 8°53 | 1° 9 | 24°37 | 3°52 |
| F 15 | 11 29 16 | 24°12'13 | 24°21 | 24°41 | 17° 5 | 17°39 | 15°31 | 17° 4 | 8°53 | 1°10 | 24°37 | 3°54 |
| S 16 | 11 33 13 | 25°11'46 | 25°21 | 29°33 | 18°40 | 18° 5 | 15°35 | 17° 6 | 8°54 | 1°10 | 24°37 | 3°57 |
| S 17 | 11 37 9 | 26°11'18 | 26°20 | 4 ^o 34 | 20°15 | 18°32 | 15°40 | 17° 8 | 8°55 | 1°10 | 24°38 | 4° 0 |
| M 18 | 11 41 6 | 27°10'47 | 27°19 | 9°44 | 21°50 | 18°58 | 15°44 | 17°10 | 8°55 | 1°11 | 24°38 | 4° 3 |
| T 19 | 11 45 2 | 28°10'15 | 28°18 | 15° 3 | 23°25 | 19°25 | 15°49 | 17°12 | 8°56 | 1°11 | 24°38 | 4° 5 |
| W 20 | 11 48 59 | 29° 9'01 | 29°16 | 20°31 | 25° 0 | 19°51 | 15°53 | 17°14 | 8°57 | 1°12 | 24°38 | 4° 8 |
| T 21 | 11 52 55 | 0 ^o 9'45 | 0 ^o 14 | 26° 8 | 26°35 | 20°18 | 15°58 | 17°15 | 8°57 | 1°12 | 24°38 | 4°11 |
| F 22 | 11 56 52 | 1° 8'28 | 1°12 | 1 ^o 53 | 28°10 | 20°44 | 16° 2 | 17°17 | 8°58 | 1°12 | 24°38 | 4°13 |
| S 23 | 12 0 48 | 2° 7'48 | 2° 9 | 7°46 | 29°45 | 21°11 | 16° 7 | 17°19 | 8°59 | 1°13 | 24°39 | 4°16 |
| S 24 | 12 4 45 | 3° 7'06 | 3° 7 | 13°46 | 1 ^o 20 | 21°38 | 16°11 | 17°21 | 8°59 | 1°13 | 24°39 | 4°19 |
| M 25 | 12 8 41 | 4° 6'22 | 4° 4 | 19°53 | 2°56 | 22° 4 | 16°16 | 17°23 | 9° 0 | 1°13 | 24°39 | 4°21 |
| T 26 | 12 12 38 | 5° 5'36 | 5° 1 | 26° 4 | 4°31 | 22°31 | 16°21 | 17°25 | 9° 1 | 1°14 | 24°39 | 4°24 |
| W 27 | 12 16 35 | 6° 4'48 | 5°59 | 2 ^o 20 | 6° 6 | 22°58 | 16°25 | 17°27 | 9° 1 | 1°14 | 24°39 | 4°27 |
| T 28 | 12 20 31 | 7° 3'58 | 6°57 | 8°38 | 7°41 | 23°24 | 16°30 | 17°28 | 9° 2 | 1°14 | 24°39 | 4°29 |
| F 29 | 12 24 28 | 8° 3'05 | 7°55 | 14°57 | 9°16 | 23°51 | 16°34 | 17°30 | 9° 3 | 1°15 | 24°40 | 4°32 |
| S 30 | 12 28 24 | 9° 2'10 | 8°54 | 21°16 | 10°51 | 24°18 | 16°39 | 17°32 | 9° 4 | 1°15 | 24°40 | 4°35 |
| S 31 | 12 32 21 | 10 ^o 1'13 | 9 ^o 53 | 27 ^o 32 | 12 ^o 27 | 24 ^m 44 | 16 ^o 43 | 17 ^m 34 | 9 ^o 4 | 1 ^m 15 | 24 ^o 40 | 4 ^m 38 |

Delta T = 115.54 sec. Greg. Calendar

APRIL 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♁ |
|------|----------|----------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| M 1 | 12 36 17 | 11 ^o 0'13 | 10 ^o 52 | 3 ^o 46 | 14 ^o 2 | 25 ^m 11 | 16 ^o 48 | 17 ^m 36 | 9 ^o 5 | 1 ^m 16 | 24 ^o 40 | 4 ^m 40 |
| T 2 | 12 40 14 | 11°59'11 | 11°52 | 9°54 | 15°37 | 25°38 | 16°52 | 17°38 | 9° 6 | 1°16 | 24°40 | 4°43 |
| W 3 | 12 44 10 | 12°58'07 | 12°52 | 15°57 | 17°12 | 26° 5 | 16°57 | 17°39 | 9° 6 | 1°17 | 24°40 | 4°46 |
| T 4 | 12 48 7 | 13°57'00 | 13°52 | 21°53 | 18°48 | 26°32 | 17° 1 | 17°41 | 9° 7 | 1°17 | 24°40 | 4°48 |
| F 5 | 12 52 4 | 14°55'51 | 14°53 | 27°40 | 20°23 | 26°58 | 17° 6 | 17°43 | 9° 8 | 1°17 | 24°41 | 4°51 |
| S 6 | 12 56 0 | 15°54'40 | 15°53 | 3 ^o 19 | 21°58 | 27°25 | 17°11 | 17°45 | 9° 8 | 1°18 | 24°41 | 4°54 |
| S 7 | 12 59 57 | 16°53'26 | 16°54 | 8°49 | 23°34 | 27°52 | 17°15 | 17°47 | 9° 9 | 1°18 | 24°41 | 4°56 |
| M 8 | 13 3 53 | 17°52'11 | 17°55 | 14°10 | 25° 9 | 28°19 | 17°20 | 17°49 | 9°10 | 1°18 | 24°41 | 4°59 |
| T 9 | 13 7 50 | 18°50'54 | 18°55 | 19°21 | 26°45 | 28°46 | 17°24 | 17°50 | 9°10 | 1°19 | 24°41 | 5° 2 |
| W 10 | 13 11 46 | 19°49'35 | 19°55 | 24°22 | 28°20 | 29°13 | 17°29 | 17°52 | 9°11 | 1°19 | 24°41 | 5° 5 |
| T 11 | 13 15 43 | 20°48'15 | 20°55 | 29°14 | 29°55 | 29°40 | 17°33 | 17°54 | 9°12 | 1°19 | 24°42 | 5° 7 |
| F 12 | 13 19 39 | 21°46'52 | 21°55 | 3 ^m 56 | 1 ^o 31 | 0 ^o 7 | 17°38 | 17°56 | 9°12 | 1°20 | 24°42 | 5°10 |
| S 13 | 13 23 36 | 22°45'28 | 22°54 | 8°29 | 3° 6 | 0°34 | 17°42 | 17°58 | 9°13 | 1°20 | 24°42 | 5°13 |
| S 14 | 13 27 33 | 23°44'03 | 23°53 | 12°54 | 4°42 | 1° 1 | 17°47 | 18° 0 | 9°14 | 1°20 | 24°42 | 5°15 |
| M 15 | 13 31 29 | 24°42'35 | 24°52 | 17°10 | 6°18 | 1°28 | 17°52 | 18° 2 | 9°14 | 1°21 | 24°42 | 5°18 |
| T 16 | 13 35 26 | 25°41'06 | 25°50 | 21°18 | 7°53 | 1°55 | 17°56 | 18° 3 | 9°15 | 1°21 | 24°42 | 5°21 |
| W 17 | 13 39 22 | 26°39'35 | 26°48 | 25°19 | 9°29 | 2°22 | 18° 1 | 18° 5 | 9°16 | 1°22 | 24°43 | 5°23 |
| T 18 | 13 43 19 | 27°38'03 | 27°45 | 29°12 | 11° 4 | 2°49 | 18° 5 | 18° 7 | 9°16 | 1°22 | 24°43 | 5°26 |
| F 19 | 13 47 15 | 28°36'28 | 28°42 | 2 ^o 59 | 12°40 | 3°16 | 18°10 | 18° 9 | 9°17 | 1°22 | 24°43 | 5°29 |
| S 20 | 13 51 12 | 29°34'53 | 29°39 | 6°40 | 14°16 | 3°44 | 18°14 | 18°11 | 9°18 | 1°23 | 24°43 | 5°32 |
| S 21 | 13 55 8 | 0 ^m 33'15 | 0 ^m 35 | 10°15 | 15°52 | 4°11 | 18°19 | 18°13 | 9°18 | 1°23 | 24°43 | 5°34 |
| M 22 | 13 59 5 | 1°31'36 | 1°32 | 13°44 | 17°27 | 4°38 | 18°23 | 18°14 | 9°19 | 1°23 | 24°43 | 5°37 |
| T 23 | 14 3 2 | 2°29'54 | 2°28 | 17° 9 | 19° 3 | 5° 5 | 18°28 | 18°16 | 9°20 | 1°24 | 24°43 | 5°40 |
| W 24 | 14 6 58 | 3°28'12 | 3°25 | 20°28 | 20°39 | 5°33 | 18°32 | 18°18 | 9°20 | 1°24 | 24°44 | 5°42 |
| T 25 | 14 10 55 | 4°26'27 | 4°21 | 23°44 | 22°15 | 6° 0 | 18°37 | 18°20 | 9°21 | 1°24 | 24°44 | 5°45 |
| F 26 | 14 14 51 | 5°24'40 | 5°18 | 26°55 | 23°51 | 6°27 | 18°42 | 18°22 | 9°22 | 1°25 | 24°44 | 5°48 |
| S 27 | 14 18 48 | 6°22'51 | 6°15 | 0 ^m 3 | 25°27 | 6°55 | 18°46 | 18°24 | 9°22 | 1°25 | 24°44 | 5°51 |
| S 28 | 14 22 44 | 7°21'01 | 7°13 | 3° 7 | 27° 2 | 7°22 | 18°51 | 18°25 | 9°23 | 1°26 | 24°44 | 5°53 |
| M 29 | 14 26 41 | 8°19'08 | 8°11 | 6° 9 | 28°38 | 7°49 | 18°55 | 18°27 | 9°24 | 1°26 | 24°44 | 5°56 |
| T 30 | 14 30 37 | 9 ^m 17'13 | 9 ^m 9 | 9 ^m 8 | 0 ^o 14 | 8 ^o 17 | 19 ^o 0 | 18 ^m 29 | 9 ^o 24 | 1 ^m 26 | 24 ^o 45 | 5 ^m 59 |

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SWISS EPHEMERIS for the year 1602
heliocentric

MAY 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|-----------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| W 1 | 14 34 34 | 10 ^m 15'16 | 10 ^m 8 | 12 ^m 4 | 1 ^h 50 | 8 ^h 44 | 19 ^h 4 | 18 ^m 31 | 9 ^h 25 | 1 ^h 27 | 24 ^m 45 | 6 ^h 1 |
| T 2 | 14 38 31 | 11°13'17 | 11° 7 | 14°58 | 3°26 | 9°12 | 19° 9 | 18°33 | 9°26 | 1°27 | 24°45 | 6° 4 |
| F 3 | 14 42 27 | 12°11'16 | 12° 6 | 17°50 | 5° 2 | 9°39 | 19°13 | 18°35 | 9°26 | 1°27 | 24°45 | 6° 7 |
| S 4 | 14 46 24 | 13° 9'14 | 13° 5 | 20°40 | 6°39 | 10° 7 | 19°18 | 18°37 | 9°27 | 1°28 | 24°45 | 6° 9 |
| S 5 | 14 50 20 | 14° 7'09 | 14° 5 | 23°29 | 8°15 | 10°34 | 19°22 | 18°38 | 9°28 | 1°28 | 24°45 | 6°12 |
| M 6 | 14 54 17 | 15° 5'03 | 15° 5 | 26°17 | 9°51 | 11° 2 | 19°27 | 18°40 | 9°28 | 1°28 | 24°46 | 6°15 |
| T 7 | 14 58 13 | 16° 2'56 | 16° 4 | 29° 3 | 11°27 | 11°30 | 19°32 | 18°42 | 9°29 | 1°29 | 24°46 | 6°18 |
| W 8 | 15 2 10 | 17° 0'47 | 17° 4 | 1 ^h 49 | 13° 3 | 11°57 | 19°36 | 18°44 | 9°30 | 1°29 | 24°46 | 6°20 |
| T 9 | 15 6 6 | 17°58'37 | 18° 3 | 4°35 | 14°39 | 12°25 | 19°41 | 18°46 | 9°30 | 1°29 | 24°46 | 6°23 |
| F 10 | 15 10 3 | 18°56'26 | 19° 3 | 7°19 | 16°16 | 12°53 | 19°45 | 18°48 | 9°31 | 1°30 | 24°46 | 6°26 |
| S 11 | 15 14 0 | 19°54'13 | 20° 2 | 10° 4 | 17°52 | 13°20 | 19°50 | 18°49 | 9°32 | 1°30 | 24°46 | 6°29 |
| S 12 | 15 17 56 | 20°51'59 | 21° 0 | 12°49 | 19°28 | 13°48 | 19°54 | 18°51 | 9°32 | 1°31 | 24°47 | 6°31 |
| M13 | 15 21 53 | 21°49'43 | 21°59 | 15°34 | 21° 5 | 14°16 | 19°59 | 18°53 | 9°33 | 1°31 | 24°47 | 6°34 |
| T 14 | 15 25 49 | 22°47'27 | 22°56 | 18°19 | 22°41 | 14°44 | 20° 3 | 18°55 | 9°34 | 1°31 | 24°47 | 6°37 |
| W15 | 15 29 46 | 23°45'09 | 23°54 | 21° 5 | 24°17 | 15°12 | 20° 8 | 18°57 | 9°34 | 1°32 | 24°47 | 6°39 |
| T 16 | 15 33 42 | 24°42'51 | 24°51 | 23°52 | 25°54 | 15°40 | 20°13 | 18°59 | 9°35 | 1°32 | 24°47 | 6°42 |
| F 17 | 15 37 39 | 25°40'31 | 25°48 | 26°39 | 27°30 | 16° 8 | 20°17 | 19° 0 | 9°36 | 1°32 | 24°47 | 6°45 |
| S 18 | 15 41 35 | 26°38'10 | 26°44 | 29°28 | 29° 7 | 16°36 | 20°22 | 19° 2 | 9°36 | 1°33 | 24°47 | 6°48 |
| S 19 | 15 45 32 | 27°35'48 | 27°41 | 2 ^h 19 | 0 ^h 43 | 17° 4 | 20°26 | 19° 4 | 9°37 | 1°33 | 24°48 | 6°50 |
| M20 | 15 49 28 | 28°33'25 | 28°36 | 5°11 | 2°20 | 17°32 | 20°31 | 19° 6 | 9°38 | 1°33 | 24°48 | 6°53 |
| T 21 | 15 53 25 | 29°31'01 | 29°32 | 8° 6 | 3°56 | 18° 0 | 20°35 | 19° 8 | 9°38 | 1°34 | 24°48 | 6°56 |
| W22 | 15 57 22 | 0 ^h 28'37 | 0 ^h 28 | 11° 2 | 5°33 | 18°28 | 20°40 | 19°10 | 9°39 | 1°34 | 24°48 | 6°58 |
| T 23 | 16 1 18 | 1°26'10 | 1°23 | 14° 1 | 7°10 | 18°56 | 20°44 | 19°11 | 9°40 | 1°35 | 24°48 | 7° 1 |
| F 24 | 16 5 15 | 2°23'43 | 2°19 | 17° 2 | 8°46 | 19°24 | 20°49 | 19°13 | 9°40 | 1°35 | 24°48 | 7° 4 |
| S 25 | 16 9 11 | 3°21'15 | 3°15 | 20° 6 | 10°23 | 19°52 | 20°54 | 19°15 | 9°41 | 1°35 | 24°49 | 7° 7 |
| S 26 | 16 13 8 | 4°18'45 | 4°11 | 23°14 | 12° 0 | 20°21 | 20°58 | 19°17 | 9°42 | 1°36 | 24°49 | 7° 9 |
| M27 | 16 17 4 | 5°16'13 | 5° 8 | 26°25 | 13°37 | 20°49 | 21° 3 | 19°19 | 9°42 | 1°36 | 24°49 | 7°12 |
| T 28 | 16 21 1 | 6°13'40 | 6° 5 | 29°40 | 15°13 | 21°17 | 21° 7 | 19°21 | 9°43 | 1°36 | 24°49 | 7°15 |
| W29 | 16 24 58 | 7°11'06 | 7° 3 | 2 ^h 59 | 16°50 | 21°46 | 21°12 | 19°22 | 9°44 | 1°37 | 24°49 | 7°17 |
| T 30 | 16 28 54 | 8° 8'31 | 8° 1 | 6°22 | 18°27 | 22°14 | 21°16 | 19°24 | 9°44 | 1°37 | 24°49 | 7°20 |
| F 31 | 16 32 51 | 9 ^h 7'55 | 8 ^h 59 | 9 ^h 50 | 20 ^h 11 | 22 ^h 42 | 21 ^h 21 | 19 ^m 26 | 9 ^h 45 | 1 ^h 37 | 24 ^m 50 | 7 ^h 23 |

Delta T = 115.37 sec. Greg. Calendar

JUNE 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| S 1 | 16 36 47 | 10 ^h 3'17 | 9 ^h 57 | 13 ^h 23 | 21 ^h 41 | 23 ^h 11 | 21 ^h 25 | 19 ^m 28 | 9 ^h 46 | 1 ^h 38 | 24 ^m 50 | 7 ^h 26 |
| S 2 | 16 40 44 | 11° 0'38 | 10°56 | 17° 1 | 23°18 | 23°39 | 21°30 | 19°30 | 9°46 | 1°38 | 24°50 | 7°28 |
| M 3 | 16 44 40 | 11°57'59 | 11°55 | 20°45 | 24°55 | 24° 8 | 21°34 | 19°32 | 9°47 | 1°38 | 24°50 | 7°31 |
| T 4 | 16 48 37 | 12°55'18 | 12°54 | 24°36 | 26°32 | 24°37 | 21°39 | 19°34 | 9°48 | 1°39 | 24°50 | 7°34 |
| W 5 | 16 52 33 | 13°52'37 | 13°53 | 28°32 | 28° 9 | 25° 5 | 21°44 | 19°35 | 9°48 | 1°39 | 24°50 | 7°37 |
| T 6 | 16 56 30 | 14°49'55 | 14°52 | 2 ^h 36 | 29°46 | 25°34 | 21°48 | 19°37 | 9°49 | 1°40 | 24°51 | 7°39 |
| F 7 | 17 0 27 | 15°47'13 | 15°51 | 6°47 | 1 ^h 23 | 26° 3 | 21°53 | 19°39 | 9°50 | 1°40 | 24°51 | 7°42 |
| S 8 | 17 4 23 | 16°44'30 | 16°50 | 11° 5 | 3° 0 | 26°31 | 21°57 | 19°41 | 9°50 | 1°40 | 24°51 | 7°45 |
| S 9 | 17 8 20 | 17°41'46 | 17°48 | 15°32 | 4°37 | 27° 0 | 22° 2 | 19°43 | 9°51 | 1°41 | 24°51 | 7°48 |
| M10 | 17 12 16 | 18°39'02 | 18°47 | 20° 7 | 6°14 | 27°29 | 22° 6 | 19°45 | 9°52 | 1°41 | 24°51 | 7°50 |
| T 11 | 17 16 13 | 19°36'17 | 19°45 | 24°50 | 7°52 | 27°58 | 22°11 | 19°46 | 9°52 | 1°41 | 24°51 | 7°53 |
| W12 | 17 20 9 | 20°33'32 | 20°42 | 29°42 | 9°29 | 28°27 | 22°15 | 19°48 | 9°53 | 1°42 | 24°51 | 7°56 |
| T 13 | 17 24 6 | 21°30'47 | 21°40 | 4 ^h 43 | 11° 6 | 28°56 | 22°20 | 19°50 | 9°54 | 1°42 | 24°52 | 7°58 |
| F 14 | 17 28 2 | 22°28'02 | 22°37 | 9°53 | 12°43 | 29°25 | 22°25 | 19°52 | 9°54 | 1°42 | 24°52 | 8° 1 |
| S 15 | 17 31 59 | 23°25'16 | 23°33 | 15°13 | 14°21 | 29°54 | 22°29 | 19°54 | 9°55 | 1°43 | 24°52 | 8° 4 |
| S 16 | 17 35 56 | 24°22'30 | 24°29 | 20°41 | 15°58 | 0 ^h 23 | 22°34 | 19°56 | 9°56 | 1°43 | 24°52 | 8° 7 |
| M17 | 17 39 52 | 25°19'45 | 25°25 | 26°18 | 17°35 | 0°52 | 22°38 | 19°57 | 9°56 | 1°44 | 24°52 | 8° 9 |
| T 18 | 17 43 49 | 26°16'59 | 26°21 | 2 ^h 4 | 19°13 | 1°21 | 22°43 | 19°59 | 9°57 | 1°44 | 24°52 | 8°12 |
| W19 | 17 47 45 | 27°14'13 | 27°16 | 7°57 | 20°50 | 1°50 | 22°47 | 20° 1 | 9°58 | 1°44 | 24°53 | 8°15 |
| T 20 | 17 51 42 | 28°11'26 | 28°11 | 13°58 | 22°27 | 2°19 | 22°52 | 20° 3 | 9°58 | 1°45 | 24°53 | 8°18 |
| F 21 | 17 55 38 | 29° 8'40 | 29° 6 | 20° 4 | 24° 5 | 2°49 | 22°56 | 20° 5 | 9°59 | 1°45 | 24°53 | 8°20 |
| S 22 | 17 59 35 | 0 ^h 3'53 | 0 ^h 3 | 26°16 | 25°42 | 3°18 | 23° 1 | 20° 7 | 10° 0 | 1°45 | 24°53 | 8°23 |
| S 23 | 18 3 31 | 1° 3'06 | 0°57 | 2 ^h 32 | 27°20 | 3°47 | 23° 6 | 20° 8 | 10° 1 | 1°46 | 24°53 | 8°26 |
| M24 | 18 7 28 | 2° 0'18 | 1°53 | 8°50 | 28°57 | 4°17 | 23°10 | 20°10 | 10° 1 | 1°46 | 24°53 | 8°29 |
| T 25 | 18 11 25 | 2°57'30 | 2°50 | 15° 9 | 0 ^h 35 | 4°46 | 23°15 | 20°12 | 10° 2 | 1°46 | 24°54 | 8°31 |
| W26 | 18 15 21 | 3°54'41 | 3°46 | 21°27 | 2°12 | 5°16 | 23°19 | 20°14 | 10° 3 | 1°47 | 24°54 | 8°34 |
| T 27 | 18 19 18 | 4°51'52 | 4°43 | 27°44 | 3°50 | 5°45 | 23°24 | 20°16 | 10° 3 | 1°47 | 24°54 | 8°37 |
| F 28 | 18 23 14 | 5°49'03 | 5°41 | 3 ^h 57 | 5°27 | 6°15 | 23°28 | 20°18 | 10° 4 | 1°47 | 24°54 | 8°39 |
| S 29 | 18 27 11 | 6°46'13 | 6°39 | 10° 6 | 7° 5 | 6°44 | 23°33 | 20°19 | 10° 5 | 1°48 | 24°54 | 8°42 |
| S 30 | 18 31 7 | 7 ^h 43'23 | 7 ^h 37 | 16 ^h 8 | 8 ^h 42 | 7 ^m 14 | 23 ^h 38 | 20 ^m 21 | 10 ^h 5 | 1 ^h 48 | 24 ^m 54 | 8 ^h 45 |

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SWISS EPHEMERIS for the year 1602
heliocentric

JULY 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| M 1 | 18 35 4 | 8♁40'33 | 8♁35 | 22♁ 4 | 10♁20 | 7♁44 | 23♁42 | 20♁23 | 10♁ 6 | 1♁49 | 24♁55 | 8♁48 |
| T 2 | 18 39 0 | 9°37'43 | 9°34 | 27°51 | 11°57 | 8°14 | 23°47 | 20°25 | 10° 7 | 1°49 | 24°55 | 8°50 |
| W 3 | 18 42 57 | 10°34'54 | 10°32 | 3♁30 | 13°35 | 8°43 | 23°51 | 20°27 | 10° 7 | 1°49 | 24°55 | 8°53 |
| T 4 | 18 46 54 | 11°32'04 | 11°31 | 9° 0 | 15°12 | 9°13 | 23°56 | 20°29 | 10° 8 | 1°50 | 24°55 | 8°56 |
| F 5 | 18 50 50 | 12°29'14 | 12°30 | 14°20 | 16°50 | 9°43 | 24° 0 | 20°30 | 10° 9 | 1°50 | 24°55 | 8°59 |
| S 6 | 18 54 47 | 13°26'25 | 13°29 | 19°30 | 18°28 | 10°13 | 24° 5 | 20°32 | 10° 9 | 1°50 | 24°55 | 9° 1 |
| S 7 | 18 58 43 | 14°23'36 | 14°28 | 24°31 | 20° 5 | 10°43 | 24° 9 | 20°34 | 10°10 | 1°51 | 24°55 | 9° 4 |
| M 8 | 19 2 40 | 15°20'47 | 15°27 | 29°23 | 21°43 | 11°13 | 24°14 | 20°36 | 10°11 | 1°51 | 24°56 | 9° 7 |
| T 9 | 19 6 36 | 16°17'59 | 16°25 | 4♁ 5 | 23°20 | 11°43 | 24°19 | 20°38 | 10°11 | 1°51 | 24°56 | 9°10 |
| W10 | 19 10 33 | 17°15'11 | 17°23 | 8°38 | 24°58 | 12°14 | 24°23 | 20°40 | 10°12 | 1°52 | 24°56 | 9°12 |
| T 11 | 19 14 29 | 18°12'24 | 18°21 | 13° 2 | 26°35 | 12°44 | 24°28 | 20°42 | 10°13 | 1°52 | 24°56 | 9°15 |
| F 12 | 19 18 26 | 19° 9'37 | 19°18 | 17°18 | 28°13 | 13°14 | 24°32 | 20°43 | 10°13 | 1°53 | 24°56 | 9°18 |
| S 13 | 19 22 23 | 20° 6'51 | 20°15 | 21°26 | 29°50 | 13°44 | 24°37 | 20°45 | 10°14 | 1°53 | 24°56 | 9°21 |
| S 14 | 19 26 19 | 21° 4'06 | 21°12 | 25°26 | 1♁28 | 14°15 | 24°41 | 20°47 | 10°15 | 1°53 | 24°57 | 9°23 |
| M15 | 19 30 16 | 22° 1'22 | 22° 8 | 29°20 | 3° 5 | 14°45 | 24°46 | 20°49 | 10°15 | 1°54 | 24°57 | 9°26 |
| T 16 | 19 34 12 | 22°58'39 | 23° 4 | 3♁ 6 | 4°43 | 15°15 | 24°50 | 20°51 | 10°16 | 1°54 | 24°57 | 9°29 |
| W17 | 19 38 9 | 23°55'57 | 24° 0 | 6°47 | 6°20 | 15°46 | 24°55 | 20°53 | 10°17 | 1°54 | 24°57 | 9°32 |
| T 18 | 19 42 5 | 24°53'15 | 24°56 | 10°22 | 7°58 | 16°17 | 25° 0 | 20°54 | 10°17 | 1°55 | 24°57 | 9°34 |
| F 19 | 19 46 2 | 25°50'34 | 25°51 | 13°51 | 9°35 | 16°47 | 25° 4 | 20°56 | 10°18 | 1°55 | 24°57 | 9°37 |
| S 20 | 19 49 59 | 26°47'54 | 26°46 | 17°15 | 11°13 | 17°18 | 25° 9 | 20°58 | 10°19 | 1°55 | 24°58 | 9°40 |
| S 21 | 19 53 55 | 27°45'14 | 27°42 | 20°35 | 12°50 | 17°48 | 25°13 | 21° 0 | 10°19 | 1°56 | 24°58 | 9°43 |
| M22 | 19 57 52 | 28°42'35 | 28°37 | 23°50 | 14°27 | 18°19 | 25°18 | 21° 2 | 10°20 | 1°56 | 24°58 | 9°45 |
| T 23 | 20 1 48 | 29°39'57 | 29°33 | 27° 1 | 16° 5 | 18°50 | 25°22 | 21° 4 | 10°21 | 1°56 | 24°58 | 9°48 |
| W24 | 20 5 45 | 0♁37'19 | 0♁30 | 0♁ 9 | 17°42 | 19°21 | 25°27 | 21° 5 | 10°21 | 1°57 | 24°58 | 9°51 |
| T 25 | 20 9 41 | 1°34'41 | 1°26 | 3°13 | 19°19 | 19°52 | 25°32 | 21° 7 | 10°22 | 1°57 | 24°58 | 9°54 |
| F 26 | 20 13 38 | 2°32'04 | 2°23 | 6°15 | 20°57 | 20°23 | 25°36 | 21° 9 | 10°23 | 1°58 | 24°59 | 9°56 |
| S 27 | 20 17 34 | 3°29'28 | 3°21 | 9°13 | 22°34 | 20°54 | 25°41 | 21°11 | 10°23 | 1°58 | 24°59 | 9°59 |
| S 28 | 20 21 31 | 4°26'52 | 4°19 | 12° 9 | 24°11 | 21°25 | 25°45 | 21°13 | 10°24 | 1°58 | 24°59 | 10° 2 |
| M29 | 20 25 27 | 5°24'17 | 5°17 | 15° 3 | 25°48 | 21°56 | 25°50 | 21°15 | 10°25 | 1°59 | 24°59 | 10° 5 |
| T 30 | 20 29 24 | 6°21'43 | 6°15 | 17°55 | 27°25 | 22°27 | 25°54 | 21°16 | 10°25 | 1°59 | 24°59 | 10° 7 |
| W31 | 20 33 21 | 7°19'10 | 7°14 | 20♁46 | 29♁ 3 | 22♁58 | 25♁59 | 21♁18 | 10♁26 | 1♁59 | 24♁59 | 10♁10 |

Delta T = 115.20 sec. Greg. Calendar

AUGUST 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| T 1 | 20 37 17 | 8♁16'37 | 8♁13 | 23♁35 | 0♁40 | 23♁30 | 26♁ 3 | 21♁20 | 10♁27 | 2♁ 0 | 24♁59 | 10♁13 |
| F 2 | 20 41 14 | 9°14'06 | 9°12 | 26°22 | 2°17 | 24° 1 | 26° 8 | 21°22 | 10°27 | 2° 0 | 25° 0 | 10°16 |
| S 3 | 20 45 10 | 10°11'35 | 10°12 | 29° 9 | 3°54 | 24°32 | 26°13 | 21°24 | 10°28 | 2° 0 | 25° 0 | 10°18 |
| S 4 | 20 49 7 | 11° 9'06 | 11°11 | 1♁55 | 5°31 | 25° 4 | 26°17 | 21°26 | 10°29 | 2° 1 | 25° 0 | 10°21 |
| M 5 | 20 53 3 | 12° 6'38 | 12°10 | 4°40 | 7° 8 | 25°35 | 26°22 | 21°27 | 10°29 | 2° 1 | 25° 0 | 10°24 |
| T 6 | 20 57 0 | 13° 4'10 | 13° 9 | 7°25 | 8°44 | 26° 7 | 26°26 | 21°29 | 10°30 | 2° 2 | 25° 0 | 10°27 |
| W 7 | 21 0 56 | 14° 1'45 | 14° 8 | 10° 9 | 10°21 | 26°38 | 26°31 | 21°31 | 10°31 | 2° 2 | 25° 0 | 10°29 |
| T 8 | 21 4 53 | 14°59'20 | 15° 7 | 12°54 | 11°58 | 27°10 | 26°35 | 21°33 | 10°31 | 2° 2 | 25° 1 | 10°32 |
| F 9 | 21 8 50 | 15°56'58 | 16° 5 | 15°39 | 13°35 | 27°42 | 26°40 | 21°35 | 10°32 | 2° 3 | 25° 1 | 10°35 |
| S 10 | 21 12 46 | 16°54'36 | 17° 3 | 18°24 | 15°11 | 28°13 | 26°45 | 21°37 | 10°33 | 2° 3 | 25° 1 | 10°38 |
| S 11 | 21 16 43 | 17°52'17 | 18° 1 | 21°10 | 16°48 | 28°45 | 26°49 | 21°38 | 10°33 | 2° 3 | 25° 1 | 10°40 |
| M12 | 21 20 39 | 18°49'59 | 18°58 | 23°57 | 18°25 | 29°17 | 26°54 | 21°40 | 10°34 | 2° 4 | 25° 1 | 10°43 |
| T 13 | 21 24 36 | 19°47'43 | 19°55 | 26°45 | 20° 1 | 29°49 | 26°58 | 21°42 | 10°35 | 2° 4 | 25° 1 | 10°46 |
| W14 | 21 28 32 | 20°45'28 | 20°52 | 29°34 | 21°38 | 0♁21 | 27° 3 | 21°44 | 10°35 | 2° 4 | 25° 2 | 10°49 |
| T 15 | 21 32 29 | 21°43'15 | 21°48 | 2♁25 | 23°14 | 0°53 | 27° 7 | 21°46 | 10°36 | 2° 5 | 25° 2 | 10°51 |
| F 16 | 21 36 26 | 22°41'04 | 22°44 | 5°17 | 24°51 | 1°25 | 27°12 | 21°48 | 10°37 | 2° 5 | 25° 2 | 10°54 |
| S 17 | 21 40 22 | 23°38'54 | 23°40 | 8°11 | 26°27 | 1°57 | 27°17 | 21°49 | 10°37 | 2° 5 | 25° 2 | 10°57 |
| S 18 | 21 44 19 | 24°36'46 | 24°36 | 11° 8 | 28° 4 | 2°29 | 27°21 | 21°51 | 10°38 | 2° 6 | 25° 2 | 11° 0 |
| M19 | 21 48 15 | 25°34'39 | 25°32 | 14° 6 | 29°40 | 3° 2 | 27°26 | 21°53 | 10°39 | 2° 6 | 25° 2 | 11° 2 |
| T 20 | 21 52 12 | 26°32'33 | 26°28 | 17° 8 | 1♁16 | 3°34 | 27°30 | 21°55 | 10°39 | 2° 7 | 25° 3 | 11° 5 |
| W21 | 21 56 8 | 27°30'29 | 27°24 | 20°12 | 2°52 | 4° 6 | 27°35 | 21°57 | 10°40 | 2° 7 | 25° 3 | 11° 8 |
| T 22 | 22 0 5 | 28°28'26 | 28°21 | 23°20 | 4°29 | 4°39 | 27°39 | 21°59 | 10°41 | 2° 7 | 25° 3 | 11°11 |
| F 23 | 22 4 1 | 29°26'25 | 29°18 | 26°31 | 6° 5 | 5°11 | 27°44 | 22° 0 | 10°41 | 2° 8 | 25° 3 | 11°14 |
| S 24 | 22 7 58 | 0♁24'24 | 0♁15 | 29°46 | 7°41 | 5°44 | 27°49 | 22° 2 | 10°42 | 2° 8 | 25° 3 | 11°16 |
| S 25 | 22 11 54 | 1°22'26 | 1°13 | 3♁ 5 | 9°17 | 6°16 | 27°53 | 22° 4 | 10°43 | 2° 8 | 25° 3 | 11°19 |
| M26 | 22 15 51 | 2°20'28 | 2°12 | 6°28 | 10°53 | 6°49 | 27°58 | 22° 6 | 10°43 | 2° 9 | 25° 3 | 11°22 |
| T 27 | 22 19 48 | 3°18'33 | 3°10 | 9°56 | 12°29 | 7°22 | 28° 2 | 22° 8 | 10°44 | 2° 9 | 25° 4 | 11°25 |
| W28 | 22 23 44 | 4°16'38 | 4° 9 | 13°30 | 14° 5 | 7°55 | 28° 7 | 22°10 | 10°45 | 2° 9 | 25° 4 | 11°27 |
| T 29 | 22 27 41 | 5°14'45 | 5° 9 | 17° 8 | 15°40 | 8°27 | 28°11 | 22°11 | 10°46 | 2°10 | 25° 4 | 11°30 |
| F 30 | 22 31 37 | 6°12'54 | 6° 8 | 20°52 | 17°16 | 9° 0 | 28°16 | 22°13 | 10°46 | 2°10 | 25° 4 | 11°33 |
| S 31 | 22 35 34 | 7°11'04 | 7° 8 | 24♁43 | 18♁52 | 9♁33 | 28♁21 | 22♁15 | 10♁47 | 2♁10 | 25♁4 | 11♁36 |

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SWISS EPHEMERIS for the year 1602
heliocentric

SEPTEMBER 1602 GC

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| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| S 1 | 22 39 30 | 8♃ 9°16 | 8♃ 8 | 28♁40 | 20♁28 | 10♃ 6 | 28♁25 | 22♁17 | 10♃48 | 2♁11 | 25♃ 4 | 11♁38 |
| M 2 | 22 43 27 | 9° 7'29 | 9° 8 | 2♃44 | 22° 3 | 10°39 | 28°30 | 22°19 | 10°48 | 2°11 | 25° 5 | 11°41 |
| T 3 | 22 47 23 | 10° 5'44 | 10° 8 | 6°55 | 23°39 | 11°12 | 28°34 | 22°21 | 10°49 | 2°12 | 25° 5 | 11°44 |
| W 4 | 22 51 20 | 11° 4'02 | 11° 8 | 11°14 | 25°15 | 11°45 | 28°39 | 22°22 | 10°50 | 2°12 | 25° 5 | 11°47 |
| T 5 | 22 55 17 | 12° 2'21 | 12° 8 | 15°40 | 26°50 | 12°19 | 28°43 | 22°24 | 10°50 | 2°12 | 25° 5 | 11°49 |
| F 6 | 22 59 13 | 13° 0'42 | 13° 7 | 20°15 | 28°26 | 12°52 | 28°48 | 22°26 | 10°51 | 2°13 | 25° 5 | 11°52 |
| S 7 | 23 3 10 | 13°59'05 | 14° 7 | 24°59 | 0♃ 1 | 13°25 | 28°52 | 22°28 | 10°52 | 2°13 | 25° 5 | 11°55 |
| S 8 | 23 7 6 | 14°57'31 | 15° 6 | 29°51 | 1°36 | 13°59 | 28°57 | 22°30 | 10°52 | 2°13 | 25° 6 | 11°58 |
| M 9 | 23 11 3 | 15°55'59 | 16° 5 | 4♃53 | 3°12 | 14°32 | 29° 2 | 22°32 | 10°53 | 2°14 | 25° 6 | 12° 0 |
| T 10 | 23 14 59 | 16°54'29 | 17° 3 | 10° 3 | 4°47 | 15° 6 | 29° 6 | 22°33 | 10°54 | 2°14 | 25° 6 | 12° 3 |
| W11 | 23 18 56 | 17°53'01 | 18° 1 | 15°23 | 6°23 | 15°39 | 29°11 | 22°35 | 10°54 | 2°14 | 25° 6 | 12° 6 |
| T 12 | 23 22 52 | 18°51'35 | 18°58 | 20°52 | 7°58 | 16°13 | 29°15 | 22°37 | 10°55 | 2°15 | 25° 6 | 12° 9 |
| F 13 | 23 26 49 | 19°50'12 | 19°55 | 26°29 | 9°33 | 16°46 | 29°20 | 22°39 | 10°56 | 2°15 | 25° 6 | 12°12 |
| S 14 | 23 30 46 | 20°48'51 | 20°52 | 2♃15 | 11° 8 | 17°20 | 29°25 | 22°41 | 10°56 | 2°16 | 25° 6 | 12°14 |
| S 15 | 23 34 42 | 21°47'32 | 21°49 | 8° 8 | 12°44 | 17°54 | 29°29 | 22°42 | 10°57 | 2°16 | 25° 7 | 12°17 |
| M16 | 23 38 39 | 22°46'14 | 22°46 | 14° 9 | 14°19 | 18°28 | 29°34 | 22°44 | 10°58 | 2°16 | 25° 7 | 12°20 |
| T 17 | 23 42 35 | 23°44'59 | 23°43 | 20°16 | 15°54 | 19° 2 | 29°38 | 22°46 | 10°58 | 2°17 | 25° 7 | 12°23 |
| W18 | 23 46 32 | 24°43'46 | 24°40 | 26°28 | 17°29 | 19°36 | 29°43 | 22°48 | 10°59 | 2°17 | 25° 7 | 12°25 |
| T 19 | 23 50 28 | 25°42'34 | 25°37 | 2♁43 | 19° 4 | 20°10 | 29°47 | 22°50 | 11° 0 | 2°17 | 25° 7 | 12°28 |
| F 20 | 23 54 25 | 26°41'25 | 26°34 | 9° 1 | 20°39 | 20°44 | 29°52 | 22°52 | 11° 0 | 2°18 | 25° 7 | 12°31 |
| S 21 | 23 58 21 | 27°40'17 | 27°32 | 15°21 | 22°14 | 21°18 | 29°57 | 22°53 | 11° 1 | 2°18 | 25° 8 | 12°34 |
| S 22 | 0 2 18 | 28°39'11 | 28°30 | 21°39 | 23°49 | 21°52 | 0♁ 1 | 22°55 | 11° 2 | 2°18 | 25° 8 | 12°37 |
| M23 | 0 6 15 | 29°38'07 | 29°29 | 27°56 | 25°24 | 22°26 | 0° 6 | 22°57 | 11° 2 | 2°19 | 25° 8 | 12°39 |
| T 24 | 0 10 11 | 0♃37'04 | 0♃28 | 4♃ 9 | 26°59 | 23° 1 | 0°10 | 22°59 | 11° 3 | 2°19 | 25° 8 | 12°42 |
| W25 | 0 14 8 | 1°36'04 | 1°27 | 10°17 | 28°34 | 23°35 | 0°15 | 23° 1 | 11° 4 | 2°19 | 25° 8 | 12°45 |
| T 26 | 0 18 4 | 2°35'05 | 2°27 | 16°20 | 0♃ 9 | 24° 9 | 0°19 | 23° 3 | 11° 4 | 2°20 | 25° 8 | 12°48 |
| F 27 | 0 22 1 | 3°34'08 | 3°27 | 22°15 | 1°44 | 24°44 | 0°24 | 23° 4 | 11° 5 | 2°20 | 25° 9 | 12°50 |
| S 28 | 0 25 57 | 4°33'13 | 4°28 | 28° 2 | 3°19 | 25°18 | 0°29 | 23° 6 | 11° 6 | 2°21 | 25° 9 | 12°53 |
| S 29 | 0 29 54 | 5°32'19 | 5°28 | 3♁40 | 4°54 | 25°53 | 0°33 | 23° 8 | 11° 6 | 2°21 | 25° 9 | 12°56 |
| M30 | 0 33 50 | 6♃31'28 | 6♃29 | 9♁10 | 6♃28 | 26♃28 | 0♁38 | 23♁10 | 11♃ 7 | 2♁21 | 25♃ 9 | 12♁59 |

Delta T = 115.02 sec. Greg. Calendar

OCTOBER 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♃ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|
| T 1 | 0 37 47 | 7♃30'38 | 7♃30 | 14♁30 | 8♃ 3 | 27♃ 2 | 0♁42 | 23♁12 | 11♃ 8 | 2♁22 | 25♃ 9 | 13♁ 1 |
| W 2 | 0 41 43 | 8°29'51 | 8°31 | 19°40 | 9°38 | 27°37 | 0°47 | 23°14 | 11° 8 | 2°22 | 25° 9 | 13° 4 |
| T 3 | 0 45 40 | 9°29'06 | 9°32 | 24°41 | 11°13 | 28°12 | 0°51 | 23°15 | 11° 9 | 2°22 | 25° 9 | 13° 7 |
| F 4 | 0 49 37 | 10°28'23 | 10°33 | 29°32 | 12°48 | 28°47 | 0°56 | 23°17 | 11°10 | 2°23 | 25°10 | 13°10 |
| S 5 | 0 53 33 | 11°27'42 | 11°34 | 4♁13 | 14°23 | 29°22 | 1° 1 | 23°19 | 11°10 | 2°23 | 25°10 | 13°13 |
| S 6 | 0 57 30 | 12°27'03 | 12°34 | 8°46 | 15°57 | 29°57 | 1° 5 | 23°21 | 11°11 | 2°23 | 25°10 | 13°15 |
| M 7 | 1 1 26 | 13°26'27 | 13°35 | 13°10 | 17°32 | 0♃32 | 1°10 | 23°23 | 11°12 | 2°24 | 25°10 | 13°18 |
| T 8 | 1 5 23 | 14°25'54 | 14°34 | 17°26 | 19° 7 | 1° 7 | 1°14 | 23°25 | 11°12 | 2°24 | 25°10 | 13°21 |
| W 9 | 1 9 19 | 15°25'22 | 15°34 | 21°34 | 20°42 | 1°42 | 1°19 | 23°26 | 11°13 | 2°24 | 25°10 | 13°24 |
| T 10 | 1 13 16 | 16°24'53 | 16°33 | 25°34 | 22°17 | 2°17 | 1°23 | 23°28 | 11°14 | 2°25 | 25°11 | 13°26 |
| F 11 | 1 17 12 | 17°24'26 | 17°31 | 29°27 | 23°52 | 2°52 | 1°28 | 23°30 | 11°14 | 2°25 | 25°11 | 13°29 |
| S 12 | 1 21 9 | 18°24'02 | 18°30 | 3♁13 | 25°26 | 3°28 | 1°33 | 23°32 | 11°15 | 2°26 | 25°11 | 13°32 |
| S 13 | 1 25 6 | 19°23'40 | 19°28 | 6°54 | 27° 1 | 4° 3 | 1°37 | 23°34 | 11°16 | 2°26 | 25°11 | 13°35 |
| M14 | 1 29 2 | 20°23'20 | 20°26 | 10°28 | 28°36 | 4°38 | 1°42 | 23°36 | 11°16 | 2°26 | 25°11 | 13°38 |
| T 15 | 1 32 59 | 21°23'02 | 21°24 | 13°57 | 0♁11 | 5°14 | 1°46 | 23°37 | 11°17 | 2°27 | 25°11 | 13°40 |
| W16 | 1 36 55 | 22°22'46 | 22°21 | 17°21 | 1°46 | 5°49 | 1°51 | 23°39 | 11°18 | 2°27 | 25°12 | 13°43 |
| T 17 | 1 40 52 | 23°22'32 | 23°19 | 20°41 | 3°20 | 6°25 | 1°56 | 23°41 | 11°18 | 2°27 | 25°12 | 13°46 |
| F 18 | 1 44 48 | 24°22'20 | 24°17 | 23°56 | 4°55 | 7° 0 | 2° 0 | 23°43 | 11°19 | 2°28 | 25°12 | 13°49 |
| S 19 | 1 48 45 | 25°22'10 | 25°16 | 27° 7 | 6°30 | 7°36 | 2° 5 | 23°45 | 11°20 | 2°28 | 25°12 | 13°51 |
| S 20 | 1 52 41 | 26°22'01 | 26°14 | 0♁15 | 8° 5 | 8°12 | 2° 9 | 23°46 | 11°20 | 2°28 | 25°12 | 13°54 |
| M21 | 1 56 38 | 27°21'55 | 27°13 | 3°19 | 9°40 | 8°47 | 2°14 | 23°48 | 11°21 | 2°29 | 25°12 | 13°57 |
| T 22 | 2 0 35 | 28°21'50 | 28°13 | 6°20 | 11°15 | 9°23 | 2°18 | 23°50 | 11°22 | 2°29 | 25°13 | 14° 0 |
| W23 | 2 4 31 | 29°21'47 | 29°12 | 9°19 | 12°50 | 9°59 | 2°23 | 23°52 | 11°22 | 2°30 | 25°13 | 14° 3 |
| T 24 | 2 8 28 | 0♃21'45 | 0♃13 | 12°15 | 14°25 | 10°35 | 2°28 | 23°54 | 11°23 | 2°30 | 25°13 | 14° 5 |
| F 25 | 2 12 24 | 1°21'45 | 1°13 | 15° 9 | 15°59 | 11°11 | 2°32 | 23°56 | 11°24 | 2°30 | 25°13 | 14° 8 |
| S 26 | 2 16 21 | 2°21'47 | 2°14 | 18° 1 | 17°34 | 11°47 | 2°37 | 23°57 | 11°24 | 2°31 | 25°13 | 14°11 |
| S 27 | 2 20 17 | 3°21'50 | 3°15 | 20°51 | 19° 9 | 12°23 | 2°41 | 23°59 | 11°25 | 2°31 | 25°13 | 14°14 |
| M28 | 2 24 14 | 4°21'55 | 4°17 | 23°40 | 20°44 | 12°59 | 2°46 | 24° 1 | 11°26 | 2°31 | 25°13 | 14°17 |
| T 29 | 2 28 10 | 5°22'02 | 5°19 | 26°28 | 22°19 | 13°35 | 2°51 | 24° 3 | 11°26 | 2°32 | 25°14 | 14°19 |
| W30 | 2 32 7 | 6°22'10 | 6°21 | 29°14 | 23°54 | 14°12 | 2°55 | 24° 5 | 11°27 | 2°32 | 25°14 | 14°22 |
| T 31 | 2 36 3 | 7♃22'21 | 7♃23 | 2♃ 0 | 25♁29 | 14♃48 | 3♁ 0 | 24♁ 7 | 11♃28 | 2♁32 | 25♃14 | 14♁25 |

Delta T = 114.93 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1602
heliocentric

NOVEMBER 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|
| F 1 | 2 40 0 | 8♁22'33 | 8♁25 | 4♃45 | 27♁4 | 15♁24 | 3♁4 | 24♁8 | 11♁28 | 2♁33 | 25♁14 | 14♁28 |
| S 2 | 2 43 57 | 9°22'47 | 9°27 | 7°30 | 28°39 | 16° 0 | 3° 9 | 24°10 | 11°29 | 2°33 | 25°14 | 14°30 |
| S 3 | 2 47 53 | 10°23'03 | 10°29 | 10°14 | 0♃14 | 16°37 | 3°13 | 24°12 | 11°30 | 2°33 | 25°14 | 14°33 |
| M 4 | 2 51 50 | 11°23'21 | 11°30 | 12°59 | 1°49 | 17°13 | 3°18 | 24°14 | 11°30 | 2°34 | 25°15 | 14°36 |
| T 5 | 2 55 46 | 12°23'41 | 12°32 | 15°44 | 3°25 | 17°50 | 3°23 | 24°16 | 11°31 | 2°34 | 25°15 | 14°39 |
| W 6 | 2 59 43 | 13°24'03 | 13°32 | 18°29 | 5° 0 | 18°26 | 3°27 | 24°18 | 11°32 | 2°35 | 25°15 | 14°42 |
| T 7 | 3 3 39 | 14°24'26 | 14°33 | 21°15 | 6°35 | 19° 3 | 3°32 | 24°19 | 11°33 | 2°35 | 25°15 | 14°44 |
| F 8 | 3 7 36 | 15°24'52 | 15°33 | 24° 2 | 8°10 | 19°39 | 3°36 | 24°21 | 11°33 | 2°35 | 25°15 | 14°47 |
| S 9 | 3 11 33 | 16°25'20 | 16°33 | 26°50 | 9°45 | 20°16 | 3°41 | 24°23 | 11°34 | 2°36 | 25°15 | 14°50 |
| S 10 | 3 15 29 | 17°25'49 | 17°32 | 29°39 | 11°20 | 20°53 | 3°46 | 24°25 | 11°35 | 2°36 | 25°16 | 14°53 |
| M11 | 3 19 26 | 18°26'21 | 18°31 | 2♁30 | 12°56 | 21°29 | 3°50 | 24°27 | 11°35 | 2°36 | 25°16 | 14°56 |
| T 12 | 3 23 22 | 19°26'54 | 19°30 | 5°22 | 14°31 | 22° 6 | 3°55 | 24°29 | 11°36 | 2°37 | 25°16 | 14°58 |
| W13 | 3 27 19 | 20°27'29 | 20°29 | 8°17 | 16° 6 | 22°43 | 3°59 | 24°30 | 11°37 | 2°37 | 25°16 | 15° 1 |
| T 14 | 3 31 15 | 21°28'05 | 21°28 | 11°13 | 17°41 | 23°20 | 4° 4 | 24°32 | 11°37 | 2°37 | 25°16 | 15° 4 |
| F 15 | 3 35 12 | 22°28'43 | 22°27 | 14°12 | 19°17 | 23°57 | 4° 9 | 24°34 | 11°38 | 2°38 | 25°16 | 15° 7 |
| S 16 | 3 39 8 | 23°29'23 | 23°25 | 17°14 | 20°52 | 24°34 | 4°13 | 24°36 | 11°39 | 2°38 | 25°16 | 15°10 |
| S 17 | 3 43 5 | 24°30'04 | 24°25 | 20°18 | 22°27 | 25°11 | 4°18 | 24°38 | 11°39 | 2°38 | 25°17 | 15°12 |
| M18 | 3 47 2 | 25°30'46 | 25°24 | 23°26 | 24° 3 | 25°48 | 4°22 | 24°39 | 11°40 | 2°39 | 25°17 | 15°15 |
| T 19 | 3 50 58 | 26°31'29 | 26°23 | 26°37 | 25°38 | 26°25 | 4°27 | 24°41 | 11°41 | 2°39 | 25°17 | 15°18 |
| W20 | 3 54 55 | 27°32'13 | 27°23 | 29°52 | 27°14 | 27° 2 | 4°31 | 24°43 | 11°41 | 2°40 | 25°17 | 15°21 |
| T 21 | 3 58 51 | 28°32'59 | 28°24 | 3♁11 | 28°49 | 27°39 | 4°36 | 24°45 | 11°42 | 2°40 | 25°17 | 15°23 |
| F 22 | 4 2 48 | 29°33'45 | 29°24 | 6°35 | 0♁25 | 28°16 | 4°41 | 24°47 | 11°43 | 2°40 | 25°17 | 15°26 |
| S 23 | 4 6 44 | 0♁34'32 | 0♁25 | 10° 3 | 2° 0 | 28°53 | 4°45 | 24°49 | 11°43 | 2°41 | 25°18 | 15°29 |
| S 24 | 4 10 41 | 1°35'21 | 1°27 | 13°36 | 3°36 | 29°31 | 4°50 | 24°50 | 11°44 | 2°41 | 25°18 | 15°32 |
| M25 | 4 14 37 | 2°36'10 | 2°29 | 17°15 | 5°11 | 0♁8 | 4°54 | 24°52 | 11°45 | 2°41 | 25°18 | 15°35 |
| T 26 | 4 18 34 | 3°37'00 | 3°31 | 21° 0 | 6°47 | 0°45 | 4°59 | 24°54 | 11°45 | 2°42 | 25°18 | 15°37 |
| W27 | 4 22 30 | 4°37'51 | 4°33 | 24°50 | 8°22 | 1°22 | 5° 4 | 24°56 | 11°46 | 2°42 | 25°18 | 15°40 |
| T 28 | 4 26 27 | 5°38'44 | 5°36 | 28°47 | 9°58 | 2° 0 | 5° 8 | 24°58 | 11°47 | 2°42 | 25°18 | 15°43 |
| F 29 | 4 30 24 | 6°39'37 | 6°39 | 2♁52 | 11°34 | 2°37 | 5°13 | 25° 0 | 11°47 | 2°43 | 25°19 | 15°46 |
| S 30 | 4 34 20 | 7♁40'31 | 7♁42 | 7♁3 | 13♁9 | 3♁15 | 5♁17 | 25♁1 | 11♁48 | 2♁43 | 25♁19 | 15♁49 |

Delta T = 114.85 sec.

Greg. Calendar

DECEMBER 1602 GC

00:00 UT

| Day | Sid.t | Terra | ☾ | ♃ | ♄ | ♅ | ♆ | ♁ | ♂ | ♆ | ♁ | ♄ |
|------|---------|----------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|
| S 1 | 4 38 17 | 8♁41'27 | 8♁45 | 11♁22 | 14♁45 | 3♁52 | 5♁22 | 25♁3 | 11♁49 | 2♁44 | 25♁19 | 15♁51 |
| M 2 | 4 42 13 | 9°42'23 | 9°47 | 15°49 | 16°21 | 4°30 | 5°27 | 25° 5 | 11°49 | 2°44 | 25°19 | 15°54 |
| T 3 | 4 46 10 | 10°43'21 | 10°50 | 20°24 | 17°57 | 5° 7 | 5°31 | 25° 7 | 11°50 | 2°44 | 25°19 | 15°57 |
| W 4 | 4 50 6 | 11°44'20 | 11°52 | 25° 8 | 19°32 | 5°45 | 5°36 | 25° 9 | 11°51 | 2°45 | 25°19 | 16° 0 |
| T 5 | 4 54 3 | 12°45'20 | 12°54 | 0♁1 | 21° 8 | 6°22 | 5°40 | 25°11 | 11°51 | 2°45 | 25°20 | 16° 3 |
| F 6 | 4 58 0 | 13°46'21 | 13°55 | 5° 2 | 22°44 | 7° 0 | 5°45 | 25°12 | 11°52 | 2°45 | 25°20 | 16° 5 |
| S 7 | 5 1 56 | 14°47'23 | 14°56 | 10°13 | 24°20 | 7°37 | 5°50 | 25°14 | 11°53 | 2°46 | 25°20 | 16° 8 |
| S 8 | 5 5 53 | 15°48'26 | 15°56 | 15°33 | 25°56 | 8°15 | 5°54 | 25°16 | 11°53 | 2°46 | 25°20 | 16°11 |
| M 9 | 5 9 49 | 16°49'30 | 16°57 | 21° 2 | 27°32 | 8°53 | 5°59 | 25°18 | 11°54 | 2°46 | 25°20 | 16°14 |
| T 10 | 5 13 46 | 17°50'36 | 17°57 | 26°40 | 29° 8 | 9°30 | 6° 3 | 25°20 | 11°55 | 2°47 | 25°20 | 16°17 |
| W11 | 5 17 42 | 18°51'42 | 18°56 | 2♁26 | 0♁44 | 10° 8 | 6° 8 | 25°21 | 11°55 | 2°47 | 25°20 | 16°19 |
| T 12 | 5 21 39 | 19°52'49 | 19°56 | 8°20 | 2°20 | 10°46 | 6°13 | 25°23 | 11°56 | 2°47 | 25°21 | 16°22 |
| F 13 | 5 25 35 | 20°53'56 | 20°55 | 14°21 | 3°56 | 11°24 | 6°17 | 25°25 | 11°57 | 2°48 | 25°21 | 16°25 |
| S 14 | 5 29 32 | 21°55'05 | 21°54 | 20°28 | 5°32 | 12° 2 | 6°22 | 25°27 | 11°57 | 2°48 | 25°21 | 16°28 |
| S 15 | 5 33 29 | 22°56'13 | 22°54 | 26°39 | 7° 8 | 12°39 | 6°26 | 25°29 | 11°58 | 2°49 | 25°21 | 16°31 |
| M16 | 5 37 25 | 23°57'22 | 23°53 | 2♁55 | 8°44 | 13°17 | 6°31 | 25°31 | 11°59 | 2°49 | 25°21 | 16°33 |
| T 17 | 5 41 22 | 24°58'32 | 24°53 | 9°13 | 10°20 | 13°55 | 6°36 | 25°32 | 11°59 | 2°49 | 25°21 | 16°36 |
| W18 | 5 45 18 | 25°59'42 | 25°53 | 15°33 | 11°56 | 14°33 | 6°40 | 25°34 | 12° 0 | 2°50 | 25°22 | 16°39 |
| T 19 | 5 49 15 | 27° 0'51 | 26°53 | 21°51 | 13°33 | 15°11 | 6°45 | 25°36 | 12° 1 | 2°50 | 25°22 | 16°42 |
| F 20 | 5 53 11 | 28° 2'01 | 27°53 | 28° 8 | 15° 9 | 15°49 | 6°49 | 25°38 | 12° 1 | 2°50 | 25°22 | 16°45 |
| S 21 | 5 57 8 | 29° 3'11 | 28°54 | 4♁21 | 16°45 | 16°27 | 6°54 | 25°40 | 12° 2 | 2°51 | 25°22 | 16°47 |
| S 22 | 6 1 4 | 0♁42'1 | 29°55 | 10°29 | 18°21 | 17° 5 | 6°59 | 25°42 | 12° 3 | 2°51 | 25°22 | 16°50 |
| M23 | 6 5 1 | 1° 5'31 | 0♁57 | 16°31 | 19°58 | 17°42 | 7° 3 | 25°43 | 12° 3 | 2°51 | 25°22 | 16°53 |
| T 24 | 6 8 58 | 2° 6'41 | 1°59 | 22°26 | 21°34 | 18°20 | 7° 8 | 25°45 | 12° 4 | 2°52 | 25°23 | 16°56 |
| W25 | 6 12 54 | 3° 7'50 | 3° 1 | 28°13 | 23°10 | 18°58 | 7°12 | 25°47 | 12° 5 | 2°52 | 25°23 | 16°59 |
| T 26 | 6 16 51 | 4° 9'00 | 4° 4 | 3♁51 | 24°47 | 19°36 | 7°17 | 25°49 | 12° 5 | 2°53 | 25°23 | 17° 1 |
| F 27 | 6 20 47 | 5°10'09 | 5° 6 | 9°20 | 26°23 | 20°14 | 7°22 | 25°51 | 12° 6 | 2°53 | 25°23 | 17° 4 |
| S 28 | 6 24 44 | 6°11'19 | 6°10 | 14°40 | 28° 0 | 20°52 | 7°26 | 25°53 | 12° 7 | 2°53 | 25°23 | 17° 7 |
| S 29 | 6 28 40 | 7°12'28 | 7°13 | 19°50 | 29°36 | 21°30 | 7°31 | 25°54 | 12° 8 | 2°54 | 25°23 | 17°10 |
| M30 | 6 32 37 | 8°13'38 | 8°16 | 24°50 | 1♁13 | 22° 8 | 7°35 | 25°56 | 12° 8 | 2°54 | 25°24 | 17°13 |
| T 31 | 6 36 33 | 9♁14'47 | 9♁19 | 29♁41 | 2♁49 | 22♁46 | 7♁40 | 25♁58 | 12♁9 | 2♁54 | 25♁24 | 17♁15 |

Delta T = 114.76 sec.

Greg. Calendar

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