



SWISS EPHEMERIS for the year 202 BCE

MARCH 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                   | ♀                   | ♁                   | ♂                   | ♃                   | ♅                  | ♁                   | ♄                   | ♁                  | ♁                   | ♁                  | ♁                   | ♁    |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|------|
| M 1  | 10 17 41 | 6 <sup>h</sup> 32'35  | 15 <sup>h</sup> 14' | 21 <sup>h</sup> 1   | 19 <sup>h</sup> 55' | 4 <sup>h</sup> 38'  | 23 <sup>h</sup> R43 | 6 <sup>h</sup> R40 | 12 <sup>h</sup> R15 | 25 <sup>h</sup> R15 | 4 <sup>h</sup> 53' | 0 <sup>h</sup> R38  | 2 <sup>h</sup> M34 | 17 <sup>h</sup> X38 | n.a. |
| T 2  | 10 21 38 | 7 <sup>h</sup> 31'42  | 27 <sup>h</sup> 7'  | 22 <sup>h</sup> 46' | 21 <sup>h</sup> 9'  | 5 <sup>h</sup> 24'  | 23 <sup>h</sup> M36 | 6 <sup>h</sup> L36 | 12 <sup>h</sup> M14 | 25 <sup>h</sup> L13 | 4 <sup>h</sup> 54' | 0 <sup>h</sup> D37  | 2 <sup>h</sup> 30  | 17 <sup>h</sup> 45  | n.a. |
| W 3  | 10 25 35 | 8 <sup>h</sup> 30'46  | 9 <sup>h</sup> 7'   | 24 <sup>h</sup> 33' | 22 <sup>h</sup> 23' | 6 <sup>h</sup> 11'  | 23 <sup>h</sup> 29  | 6 <sup>h</sup> 33  | 12 <sup>h</sup> 14  | 25 <sup>h</sup> 12  | 4 <sup>h</sup> 55' | 0 <sup>h</sup> M37  | 2 <sup>h</sup> 27  | 17 <sup>h</sup> 52  | n.a. |
| T 4  | 10 29 31 | 9 <sup>h</sup> 29'49  | 21 <sup>h</sup> 20  | 26 <sup>h</sup> 22' | 23 <sup>h</sup> 37' | 6 <sup>h</sup> 58'  | 23 <sup>h</sup> 22  | 6 <sup>h</sup> 29  | 12 <sup>h</sup> 13  | 25 <sup>h</sup> 10  | 4 <sup>h</sup> 56' | 0 <sup>h</sup> 38   | 2 <sup>h</sup> 24  | 17 <sup>h</sup> 58  | n.a. |
| F 5  | 10 33 28 | 10 <sup>h</sup> 28'48 | 3 <sup>h</sup> II40 | 28 <sup>h</sup> 11' | 24 <sup>h</sup> 51' | 7 <sup>h</sup> 44'  | 23 <sup>h</sup> 15  | 6 <sup>h</sup> 26  | 12 <sup>h</sup> 12  | 25 <sup>h</sup> 8   | 4 <sup>h</sup> 57' | 0 <sup>h</sup> 39   | 2 <sup>h</sup> 21  | 18 <sup>h</sup> 5   | n.a. |
| S 6  | 10 37 24 | 11 <sup>h</sup> 27'46 | 16 <sup>h</sup> 40  | 0 <sup>h</sup> X 2  | 26 <sup>h</sup> 5'  | 8 <sup>h</sup> 31'  | 23 <sup>h</sup> 7   | 6 <sup>h</sup> 22  | 12 <sup>h</sup> 12  | 25 <sup>h</sup> 7   | 4 <sup>h</sup> 58' | 0 <sup>h</sup> R39  | 2 <sup>h</sup> 18  | 18 <sup>h</sup> 12  | n.a. |
| S 7  | 10 41 21 | 12 <sup>h</sup> 26'41 | 29 <sup>h</sup> 57' | 1 <sup>h</sup> 55'  | 27 <sup>h</sup> 19' | 9 <sup>h</sup> 18'  | 23 <sup>h</sup> 0   | 6 <sup>h</sup> 19  | 12 <sup>h</sup> 11  | 25 <sup>h</sup> 5   | 4 <sup>h</sup> 59' | 0 <sup>h</sup> 38   | 2 <sup>h</sup> 14  | 18 <sup>h</sup> 18  | n.a. |
| M 8  | 10 45 17 | 13 <sup>h</sup> 25'34 | 13 <sup>h</sup> 542 | 3 <sup>h</sup> 49'  | 28 <sup>h</sup> 33' | 10 <sup>h</sup> 4'  | 22 <sup>h</sup> 52  | 6 <sup>h</sup> 15  | 12 <sup>h</sup> 10  | 25 <sup>h</sup> 4   | 5 <sup>h</sup> 0   | 0 <sup>h</sup> 34   | 2 <sup>h</sup> 11  | 18 <sup>h</sup> 25  | n.a. |
| T 9  | 10 49 14 | 14 <sup>h</sup> 24'24 | 27 <sup>h</sup> 56  | 5 <sup>h</sup> 44'  | 29 <sup>h</sup> 47' | 10 <sup>h</sup> 51' | 22 <sup>h</sup> 45  | 6 <sup>h</sup> 12  | 12 <sup>h</sup> 9   | 25 <sup>h</sup> 2   | 5 <sup>h</sup> 1   | 0 <sup>h</sup> 29   | 2 <sup>h</sup> 8   | 18 <sup>h</sup> 32  | n.a. |
| W10  | 10 53 10 | 15 <sup>h</sup> 23'12 | 12 <sup>h</sup> L37 | 7 <sup>h</sup> 41'  | 1 <sup>h</sup> Y 1  | 11 <sup>h</sup> 38' | 22 <sup>h</sup> 37  | 6 <sup>h</sup> 9   | 12 <sup>h</sup> 8   | 25 <sup>h</sup> 1   | 5 <sup>h</sup> 2   | 0 <sup>h</sup> 23   | 2 <sup>h</sup> 5   | 18 <sup>h</sup> 38  | n.a. |
| T 11 | 10 57 7  | 16 <sup>h</sup> 21'58 | 27 <sup>h</sup> 40  | 9 <sup>h</sup> 39'  | 2 <sup>h</sup> 15'  | 12 <sup>h</sup> 24  | 22 <sup>h</sup> 30  | 6 <sup>h</sup> 6   | 12 <sup>h</sup> 7   | 24 <sup>h</sup> 59  | 5 <sup>h</sup> 3   | 0 <sup>h</sup> 16   | 2 <sup>h</sup> 2   | 18 <sup>h</sup> 45  | n.a. |
| F 12 | 11 1 4   | 17 <sup>h</sup> 20'41 | 12 <sup>h</sup> M54 | 11 <sup>h</sup> 39' | 3 <sup>h</sup> 29'  | 13 <sup>h</sup> 11' | 22 <sup>h</sup> 22  | 6 <sup>h</sup> 3   | 12 <sup>h</sup> 6   | 24 <sup>h</sup> 58  | 5 <sup>h</sup> 4   | 0 <sup>h</sup> 10   | 1 <sup>h</sup> 59  | 18 <sup>h</sup> 52  | n.a. |
| S 13 | 11 5 0   | 18 <sup>h</sup> 19'22 | 28 <sup>h</sup> 11  | 13 <sup>h</sup> 40' | 4 <sup>h</sup> 43'  | 13 <sup>h</sup> 57' | 22 <sup>h</sup> 14  | 6 <sup>h</sup> 0   | 12 <sup>h</sup> 5   | 24 <sup>h</sup> 56  | 5 <sup>h</sup> 4   | 0 <sup>h</sup> 5    | 1 <sup>h</sup> 55  | 18 <sup>h</sup> 58  | n.a. |
| S 14 | 11 8 57  | 19 <sup>h</sup> 18'02 | 13 <sup>h</sup> 520 | 15 <sup>h</sup> 42' | 5 <sup>h</sup> 57'  | 14 <sup>h</sup> 44' | 22 <sup>h</sup> 7   | 5 <sup>h</sup> 57  | 12 <sup>h</sup> 4   | 24 <sup>h</sup> 55  | 5 <sup>h</sup> 5   | 0 <sup>h</sup> 2    | 1 <sup>h</sup> 52  | 19 <sup>h</sup> 5   | n.a. |
| M15  | 11 12 53 | 20 <sup>h</sup> 16'39 | 28 <sup>h</sup> 11  | 17 <sup>h</sup> 45' | 7 <sup>h</sup> 10'  | 15 <sup>h</sup> 30' | 21 <sup>h</sup> 59  | 5 <sup>h</sup> 54  | 12 <sup>h</sup> 3   | 24 <sup>h</sup> 53  | 5 <sup>h</sup> 6   | 0 <sup>h</sup> D 1  | 1 <sup>h</sup> 49  | 19 <sup>h</sup> 12  | n.a. |
| T 16 | 11 16 50 | 21 <sup>h</sup> 15'15 | 12 <sup>h</sup> M38 | 19 <sup>h</sup> 49' | 8 <sup>h</sup> 24'  | 16 <sup>h</sup> 17' | 21 <sup>h</sup> 51  | 5 <sup>h</sup> 52  | 12 <sup>h</sup> 1   | 24 <sup>h</sup> 52  | 5 <sup>h</sup> 7   | 0 <sup>h</sup> 2    | 1 <sup>h</sup> 46  | 19 <sup>h</sup> 19  | n.a. |
| W17  | 11 20 46 | 22 <sup>h</sup> 13'48 | 26 <sup>h</sup> 39  | 21 <sup>h</sup> 55' | 9 <sup>h</sup> 38'  | 17 <sup>h</sup> 3   | 21 <sup>h</sup> 44  | 5 <sup>h</sup> 49  | 12 <sup>h</sup> 0   | 24 <sup>h</sup> 50  | 5 <sup>h</sup> 7   | 0 <sup>h</sup> 3    | 1 <sup>h</sup> 43  | 19 <sup>h</sup> 25  | n.a. |
| T 18 | 11 24 43 | 23 <sup>h</sup> 12'21 | 10 <sup>h</sup> 713 | 24 <sup>h</sup> 1'  | 10 <sup>h</sup> 52' | 17 <sup>h</sup> 49' | 21 <sup>h</sup> 36  | 5 <sup>h</sup> 47  | 11 <sup>h</sup> 59  | 24 <sup>h</sup> 49  | 5 <sup>h</sup> 8   | 0 <sup>h</sup> 4    | 1 <sup>h</sup> 39  | 19 <sup>h</sup> 32  | n.a. |
| F 19 | 11 28 39 | 24 <sup>h</sup> 10'51 | 23 <sup>h</sup> 22  | 26 <sup>h</sup> 8'  | 12 <sup>h</sup> 5'  | 18 <sup>h</sup> 36' | 21 <sup>h</sup> 28  | 5 <sup>h</sup> 44  | 11 <sup>h</sup> 58  | 24 <sup>h</sup> 47  | 5 <sup>h</sup> 9   | 0 <sup>h</sup> R 5  | 1 <sup>h</sup> 36  | 19 <sup>h</sup> 39  | n.a. |
| S 20 | 11 32 36 | 25 <sup>h</sup> 9'20  | 6 <sup>h</sup> 310  | 28 <sup>h</sup> 15' | 13 <sup>h</sup> 19' | 19 <sup>h</sup> 22' | 21 <sup>h</sup> 21  | 5 <sup>h</sup> 42  | 11 <sup>h</sup> 56  | 24 <sup>h</sup> 46  | 5 <sup>h</sup> 9   | 0 <sup>h</sup> 4    | 1 <sup>h</sup> 33  | 19 <sup>h</sup> 45  | n.a. |
| S 21 | 11 36 33 | 26 <sup>h</sup> 7'47  | 18 <sup>h</sup> 40  | 0 <sup>h</sup> Y22  | 14 <sup>h</sup> 32' | 20 <sup>h</sup> 8'  | 21 <sup>h</sup> 13  | 5 <sup>h</sup> 40  | 11 <sup>h</sup> 55  | 24 <sup>h</sup> 45  | 5 <sup>h</sup> 10  | 0 <sup>h</sup> 2    | 1 <sup>h</sup> 30  | 19 <sup>h</sup> 52  | n.a. |
| M22  | 11 40 29 | 27 <sup>h</sup> 6'12  | 0 <sup>h</sup> 555  | 2 <sup>h</sup> 29'  | 15 <sup>h</sup> 46' | 20 <sup>h</sup> 55' | 21 <sup>h</sup> 5   | 5 <sup>h</sup> 38  | 11 <sup>h</sup> 53  | 24 <sup>h</sup> 43  | 5 <sup>h</sup> 10  | 29 <sup>h</sup> 59  | 1 <sup>h</sup> 27  | 19 <sup>h</sup> 59  | n.a. |
| T 23 | 11 44 26 | 28 <sup>h</sup> 4'36  | 13 <sup>h</sup> 0   | 4 <sup>h</sup> 36'  | 17 <sup>h</sup> 0   | 21 <sup>h</sup> 41' | 20 <sup>h</sup> 58  | 5 <sup>h</sup> 36  | 11 <sup>h</sup> 52  | 24 <sup>h</sup> 42  | 5 <sup>h</sup> 11  | 29 <sup>h</sup> 54  | 1 <sup>h</sup> 24  | 20 <sup>h</sup> 5   | n.a. |
| W24  | 11 48 22 | 29 <sup>h</sup> 2'57  | 24 <sup>h</sup> 57  | 6 <sup>h</sup> 43'  | 18 <sup>h</sup> 13' | 22 <sup>h</sup> 27' | 20 <sup>h</sup> 50  | 5 <sup>h</sup> 34  | 11 <sup>h</sup> 50  | 24 <sup>h</sup> 41  | 5 <sup>h</sup> 11  | 29 <sup>h</sup> 48  | 1 <sup>h</sup> 20  | 20 <sup>h</sup> 12  | n.a. |
| T 25 | 11 52 19 | 0 <sup>h</sup> Y 1'17 | 6 <sup>h</sup> X49  | 8 <sup>h</sup> 48'  | 19 <sup>h</sup> 27' | 23 <sup>h</sup> 13' | 20 <sup>h</sup> 43  | 5 <sup>h</sup> 32  | 11 <sup>h</sup> 49  | 24 <sup>h</sup> 39  | 5 <sup>h</sup> 12  | 29 <sup>h</sup> 43  | 1 <sup>h</sup> 17  | 20 <sup>h</sup> 19  | n.a. |
| F 26 | 11 56 15 | 0 <sup>h</sup> 59'35  | 18 <sup>h</sup> 38  | 10 <sup>h</sup> 52' | 20 <sup>h</sup> 40' | 24 <sup>h</sup> 0   | 20 <sup>h</sup> 35  | 5 <sup>h</sup> 30  | 11 <sup>h</sup> 47  | 24 <sup>h</sup> 38  | 5 <sup>h</sup> 12  | 29 <sup>h</sup> 38  | 1 <sup>h</sup> 14  | 20 <sup>h</sup> 25  | n.a. |
| S 27 | 12 0 12  | 1 <sup>h</sup> 57'52  | 0 <sup>h</sup> Y27  | 12 <sup>h</sup> 55' | 21 <sup>h</sup> 54' | 24 <sup>h</sup> 46' | 20 <sup>h</sup> 28  | 5 <sup>h</sup> 29  | 11 <sup>h</sup> 45  | 24 <sup>h</sup> 37  | 5 <sup>h</sup> 13  | 29 <sup>h</sup> 34  | 1 <sup>h</sup> 11  | 20 <sup>h</sup> 32  | n.a. |
| S 28 | 12 4 8   | 2 <sup>h</sup> 56'06  | 12 <sup>h</sup> 17  | 14 <sup>h</sup> 56' | 23 <sup>h</sup> 7'  | 25 <sup>h</sup> 32' | 20 <sup>h</sup> 20  | 5 <sup>h</sup> 27  | 11 <sup>h</sup> 44  | 24 <sup>h</sup> 36  | 5 <sup>h</sup> 13  | 29 <sup>h</sup> 32  | 1 <sup>h</sup> 8   | 20 <sup>h</sup> 39  | n.a. |
| M29  | 12 8 5   | 3 <sup>h</sup> 54'18  | 24 <sup>h</sup> 12  | 16 <sup>h</sup> 54' | 24 <sup>h</sup> 20' | 26 <sup>h</sup> 18' | 20 <sup>h</sup> 13  | 5 <sup>h</sup> 26  | 11 <sup>h</sup> 42  | 24 <sup>h</sup> 34  | 5 <sup>h</sup> 13  | 29 <sup>h</sup> D30 | 1 <sup>h</sup> 5   | 20 <sup>h</sup> 45  | n.a. |
| T 30 | 12 12 1  | 4 <sup>h</sup> 52'29  | 6 <sup>h</sup> 311  | 18 <sup>h</sup> 50' | 25 <sup>h</sup> 34' | 27 <sup>h</sup> 4   | 20 <sup>h</sup> 6   | 5 <sup>h</sup> 24  | 11 <sup>h</sup> 40  | 24 <sup>h</sup> 33  | 5 <sup>h</sup> 14  | 29 <sup>h</sup> 30  | 1 <sup>h</sup> 1   | 20 <sup>h</sup> 52  | n.a. |
| W31  | 12 15 58 | 5 <sup>h</sup> Y50'38 | 18 <sup>h</sup> 320 | 20 <sup>h</sup> Y44 | 26 <sup>h</sup> Y47 | 27 <sup>h</sup> 550 | 19 <sup>h</sup> M59 | 5 <sup>h</sup> L23 | 11 <sup>h</sup> M38 | 24 <sup>h</sup> L32 | 5 <sup>h</sup> 14  | 29 <sup>h</sup> 31  | 0 <sup>h</sup> M58 | 20 <sup>h</sup> X59 | n.a. |

Delta T = 03h31m38s Julian Calendar 1 March 202 BCE == Greg. Calendar 25 Feb. 202 BCE

The year -201 astronomical counting style corresponds to year 202 B.C.E historical counting style.

APRIL 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                   | ♀                   | ♁                   | ♂                   | ♃                   | ♅                  | ♁                   | ♄                   | ♁                  | ♁                   | ♁                  | ♁                   | ♁    |
|------|----------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|------|
| T 1  | 12 19 55 | 6 <sup>h</sup> Y48'44 | 0 <sup>h</sup> II40 | 22 <sup>h</sup> Y34 | 28 <sup>h</sup> Y 0 | 28 <sup>h</sup> 36  | 19 <sup>h</sup> R52 | 5 <sup>h</sup> R22 | 11 <sup>h</sup> R36 | 24 <sup>h</sup> R31 | 5 <sup>h</sup> 14  | 29 <sup>h</sup> 33  | 0 <sup>h</sup> M55 | 21 <sup>h</sup> X 5 | n.a. |
| F 2  | 12 23 51 | 7 <sup>h</sup> 46'49  | 13 <sup>h</sup> 14  | 24 <sup>h</sup> 22' | 29 <sup>h</sup> 14' | 29 <sup>h</sup> 22' | 19 <sup>h</sup> M44 | 5 <sup>h</sup> L21 | 11 <sup>h</sup> M34 | 24 <sup>h</sup> L30 | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 35  | 0 <sup>h</sup> 52  | 21 <sup>h</sup> 12  | n.a. |
| S 3  | 12 27 48 | 8 <sup>h</sup> 44'52  | 26 <sup>h</sup> 7'  | 26 <sup>h</sup> 6'  | 0 <sup>h</sup> X27  | 0 <sup>h</sup> X 8  | 19 <sup>h</sup> 38  | 5 <sup>h</sup> 20  | 11 <sup>h</sup> 33  | 24 <sup>h</sup> 29  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 36  | 0 <sup>h</sup> 49  | 21 <sup>h</sup> 19  | n.a. |
| S 4  | 12 31 44 | 9 <sup>h</sup> 42'53  | 9 <sup>h</sup> 521  | 27 <sup>h</sup> 46' | 1 <sup>h</sup> 40'  | 0 <sup>h</sup> 54'  | 19 <sup>h</sup> 31  | 5 <sup>h</sup> 19  | 11 <sup>h</sup> 31  | 24 <sup>h</sup> 28  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> R36 | 0 <sup>h</sup> 45  | 21 <sup>h</sup> 25  | n.a. |
| M 5  | 12 35 41 | 10 <sup>h</sup> 40'52 | 22 <sup>h</sup> 59  | 29 <sup>h</sup> 23' | 2 <sup>h</sup> 53'  | 1 <sup>h</sup> 40'  | 19 <sup>h</sup> 24  | 5 <sup>h</sup> 19  | 11 <sup>h</sup> 29  | 24 <sup>h</sup> 26  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 36  | 0 <sup>h</sup> 42  | 21 <sup>h</sup> 32  | n.a. |
| T 6  | 12 39 37 | 11 <sup>h</sup> 38'48 | 7 <sup>h</sup> L 1  | 0 <sup>h</sup> 56   | 4 <sup>h</sup> 6'   | 2 <sup>h</sup> 25'  | 19 <sup>h</sup> 17  | 5 <sup>h</sup> 18  | 11 <sup>h</sup> 27  | 24 <sup>h</sup> 25  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 35  | 0 <sup>h</sup> 39  | 21 <sup>h</sup> 39  | n.a. |
| W 7  | 12 43 34 | 12 <sup>h</sup> 36'43 | 21 <sup>h</sup> 28  | 2 <sup>h</sup> 26'  | 5 <sup>h</sup> 19'  | 3 <sup>h</sup> 11'  | 19 <sup>h</sup> 11  | 5 <sup>h</sup> 18  | 11 <sup>h</sup> 25  | 24 <sup>h</sup> 24  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 33  | 0 <sup>h</sup> 36  | 21 <sup>h</sup> 45  | n.a. |
| T 8  | 12 47 30 | 13 <sup>h</sup> 34'36 | 6 <sup>h</sup> M15  | 3 <sup>h</sup> 51'  | 6 <sup>h</sup> 32'  | 3 <sup>h</sup> 57'  | 19 <sup>h</sup> 4   | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 22  | 24 <sup>h</sup> 24  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 31  | 0 <sup>h</sup> 33  | 21 <sup>h</sup> 52  | n.a. |
| F 9  | 12 51 27 | 14 <sup>h</sup> 32'27 | 21 <sup>h</sup> 17  | 5 <sup>h</sup> 13'  | 7 <sup>h</sup> 45'  | 4 <sup>h</sup> 42'  | 18 <sup>h</sup> 58  | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 20  | 24 <sup>h</sup> 23  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 29  | 0 <sup>h</sup> 30  | 21 <sup>h</sup> 59  | n.a. |
| S 10 | 12 55 24 | 15 <sup>h</sup> 30'16 | 6 <sup>h</sup> 525  | 6 <sup>h</sup> 30'  | 8 <sup>h</sup> 58'  | 5 <sup>h</sup> 28'  | 18 <sup>h</sup> 52  | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 18  | 24 <sup>h</sup> 22  | 5 <sup>h</sup> R15 | 29 <sup>h</sup> 28  | 0 <sup>h</sup> 26  | 22 <sup>h</sup> 5   | n.a. |
| S 11 | 12 59 20 | 16 <sup>h</sup> 28'03 | 21 <sup>h</sup> 30  | 7 <sup>h</sup> 43'  | 10 <sup>h</sup> 11' | 6 <sup>h</sup> 14'  | 18 <sup>h</sup> 45  | 5 <sup>h</sup> D17 | 11 <sup>h</sup> 16  | 24 <sup>h</sup> 21  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 27  | 0 <sup>h</sup> 23  | 22 <sup>h</sup> 12  | n.a. |
| M12  | 13 3 17  | 17 <sup>h</sup> 25'50 | 6 <sup>h</sup> M23  | 8 <sup>h</sup> 52'  | 11 <sup>h</sup> 24' | 6 <sup>h</sup> 59'  | 18 <sup>h</sup> 39  | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 14  | 24 <sup>h</sup> 20  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> D27 | 0 <sup>h</sup> 20  | 22 <sup>h</sup> 19  | n.a. |
| T 13 | 13 7 13  | 18 <sup>h</sup> 23'34 | 20 <sup>h</sup> 57  | 9 <sup>h</sup> 57'  | 12 <sup>h</sup> 37' | 7 <sup>h</sup> 45'  | 18 <sup>h</sup> 34  | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 12  | 24 <sup>h</sup> 19  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 27  | 0 <sup>h</sup> 17  | 22 <sup>h</sup> 25  | n.a. |
| W14  | 13 11 10 | 19 <sup>h</sup> 21'18 | 5 <sup>h</sup> 7 7  | 10 <sup>h</sup> 58' | 13 <sup>h</sup> 50' | 8 <sup>h</sup> 30'  | 18 <sup>h</sup> 28  | 5 <sup>h</sup> 17  | 11 <sup>h</sup> 10  | 24 <sup>h</sup> 18  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 28  | 0 <sup>h</sup> 14  | 22 <sup>h</sup> 32  | n.a. |
| T 15 | 13 15 6  | 20 <sup>h</sup> 19'00 | 18 <sup>h</sup> 50  | 11 <sup>h</sup> 54' | 15 <sup>h</sup> 2'  | 9 <sup>h</sup> 16'  | 18 <sup>h</sup> 22  | 5 <sup>h</sup> 18  | 11 <sup>h</sup> 7   | 24 <sup>h</sup> 18  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 29  | 0 <sup>h</sup> 10  | 22 <sup>h</sup> 39  | n.a. |
| F 16 | 13 19 3  | 21 <sup>h</sup> 16'41 | 2 <sup>h</sup> 3 7  | 12 <sup>h</sup> 46' | 16 <sup>h</sup> 15' | 10 <sup>h</sup> 1'  | 18 <sup>h</sup> 17  | 5 <sup>h</sup> 18  | 11 <sup>h</sup> 5   | 24 <sup>h</sup> 17  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 30  | 0 <sup>h</sup> 7   | 22 <sup>h</sup> 45  | n.a. |
| S 17 | 13 22 59 | 22 <sup>h</sup> 14'21 | 15 <sup>h</sup> 0   | 13 <sup>h</sup> 34' | 17 <sup>h</sup> 28' | 10 <sup>h</sup> 46' | 18 <sup>h</sup> 11  | 5 <sup>h</sup> 19  | 11 <sup>h</sup> 3   | 24 <sup>h</sup> 16  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> 30  | 0 <sup>h</sup> 4   | 22 <sup>h</sup> 52  | n.a. |
| S 18 | 13 26 56 | 23 <sup>h</sup> 11'59 | 27 <sup>h</sup> 32  | 14 <sup>h</sup> 16' | 18 <sup>h</sup> 41' | 11 <sup>h</sup> 32' | 18 <sup>h</sup> 6   | 5 <sup>h</sup> 19  | 11 <sup>h</sup> 0   | 24 <sup>h</sup> 15  | 5 <sup>h</sup> 15  | 29 <sup>h</sup> R30 | 0 <sup>h</sup> 1   | 22 <sup>h</sup> 59  | n.a. |
| M19  | 13       |                       |                     |                     |                     |                     |                     |                    |                     |                     |                    |                     |                    |                     |      |

SWISS EPHEMERIS for the year 202 BCE

MAY 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃      | ♄    | ♅      | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ |
|------|----------|----------|-------|--------|-------|-------|--------|------|--------|--------|-------|--------|-------|-------|------|---|---|
| S 1  | 14 18 11 | 5♄39'38  | 6♅10  | 16°R29 | 4♁22  | 21♂16 | 17°R12 | 5♁37 | 10°R29 | 24°R 9 | 5°R10 | 29°R26 | 29♁20 | 24♂26 | n.a. |   |   |
| S 2  | 14 22 8  | 6°37'01  | 19°30 | 16♄ 8  | 5°34  | 22° 0 | 17♁ 9  | 5°39 | 10♁27  | 24♁ 9  | 5♄ 9  | 29♁26  | 29°16 | 24°32 | n.a. |   |   |
| M 3  | 14 26 4  | 7°34'22  | 3♁ 8  | 15°45  | 6°46  | 22°45 | 17° 6  | 5°41 | 10°24  | 24° 9  | 5° 8  | 29°D26 | 29°13 | 24°39 | n.a. |   |   |
| T 4  | 14 30 1  | 8°31'42  | 17° 3 | 15°18  | 7°58  | 23°29 | 17° 4  | 5°43 | 10°22  | 24° 8  | 5° 8  | 29°26  | 29°10 | 24°46 | n.a. |   |   |
| W 5  | 14 33 57 | 9°29'00  | 1♁16  | 14°49  | 9°10  | 24°14 | 17° 1  | 5°46 | 10°19  | 24° 8  | 5° 7  | 29°26  | 29° 7 | 24°52 | n.a. |   |   |
| T 6  | 14 37 54 | 10°26'18 | 15°45 | 14°18  | 10°22 | 24°58 | 16°59  | 5°48 | 10°17  | 24° 8  | 5° 7  | 29°27  | 29° 4 | 24°59 | n.a. |   |   |
| F 7  | 14 41 50 | 11°23'34 | 0♁25  | 13°46  | 11°34 | 25°42 | 16°57  | 5°51 | 10°14  | 24° 8  | 5° 6  | 29°28  | 29° 1 | 25° 6 | n.a. |   |   |
| S 8  | 14 45 47 | 12°20'49 | 15°11 | 13°12  | 12°46 | 26°26 | 16°55  | 5°54 | 10°12  | 24° 8  | 5° 5  | 29°28  | 28°57 | 25°12 | n.a. |   |   |
| S 9  | 14 49 44 | 13°18'03 | 29°58 | 12°38  | 13°58 | 27°11 | 16°53  | 5°56 | 10° 9  | 24° 8  | 5° 4  | 29°R29 | 28°54 | 25°19 | n.a. |   |   |
| M10  | 14 53 40 | 14°15'17 | 14♁39 | 12° 5  | 15° 9 | 27°55 | 16°52  | 5°59 | 10° 7  | 24°D 8 | 5° 4  | 29°28  | 28°51 | 25°26 | n.a. |   |   |
| T 11 | 14 57 37 | 15°12'30 | 29° 5 | 11°33  | 16°21 | 28°39 | 16°50  | 6° 2 | 10° 4  | 24° 8  | 5° 3  | 29°27  | 28°48 | 25°32 | n.a. |   |   |
| W12  | 15 1 33  | 16° 9'42 | 13♁13 | 11° 1  | 17°33 | 29°23 | 16°49  | 6° 5 | 10° 2  | 24° 8  | 5° 2  | 29°25  | 28°45 | 25°39 | n.a. |   |   |
| T 13 | 15 5 30  | 17° 6'54 | 26°58 | 10°32  | 18°44 | 0♁ 7  | 16°48  | 6° 8 | 10° 0  | 24° 8  | 5° 1  | 29°23  | 28°42 | 25°46 | n.a. |   |   |
| F 14 | 15 9 26  | 18° 4'05 | 10♄19 | 10° 5  | 19°56 | 0°50  | 16°47  | 6°11 | 9°57   | 24° 8  | 5° 0  | 29°21  | 28°38 | 25°52 | n.a. |   |   |
| S 15 | 15 13 23 | 19° 1'16 | 23°16 | 9°42   | 21° 7 | 1°34  | 16°46  | 6°15 | 9°55   | 24° 8  | 5° 0  | 29°19  | 28°35 | 25°59 | n.a. |   |   |
| S 16 | 15 17 19 | 19°58'26 | 5♁51  | 9°21   | 22°19 | 2°18  | 16°46  | 6°18 | 9°52   | 24° 9  | 4°59  | 29°17  | 28°32 | 26° 6 | n.a. |   |   |
| M17  | 15 21 16 | 20°55'36 | 18° 8 | 9° 4   | 23°30 | 3° 2  | 16°46  | 6°21 | 9°50   | 24° 9  | 4°58  | 29°D16 | 28°29 | 26°12 | n.a. |   |   |
| T 18 | 15 25 13 | 21°52'46 | 0♂11  | 8°51   | 24°42 | 3°45  | 16°D45 | 6°25 | 9°47   | 24° 9  | 4°57  | 29°17  | 28°26 | 26°19 | n.a. |   |   |
| W19  | 15 29 9  | 22°49'56 | 12° 5 | 8°42   | 25°53 | 4°29  | 16°45  | 6°29 | 9°45   | 24° 9  | 4°56  | 29°18  | 28°22 | 26°26 | n.a. |   |   |
| T 20 | 15 33 6  | 23°47'05 | 23°54 | 8°37   | 27° 4 | 5°12  | 16°46  | 6°32 | 9°43   | 24°10  | 4°55  | 29°19  | 28°19 | 26°32 | n.a. |   |   |
| F 21 | 15 37 2  | 24°44'15 | 5♁44  | 8°D37  | 28°15 | 5°56  | 16°46  | 6°36 | 9°40   | 24°10  | 4°54  | 29°21  | 28°16 | 26°39 | n.a. |   |   |
| S 22 | 15 40 59 | 25°41'24 | 17°38 | 8°42   | 29°26 | 6°39  | 16°47  | 6°40 | 9°38   | 24°10  | 4°53  | 29°22  | 28°13 | 26°46 | n.a. |   |   |
| S 23 | 15 44 55 | 26°38'33 | 29°40 | 8°51   | 0♄38  | 7°22  | 16°47  | 6°44 | 9°36   | 24°11  | 4°52  | 29°R23 | 28°10 | 26°52 | n.a. |   |   |
| M24  | 15 48 52 | 27°35'42 | 11♄53 | 9° 5   | 1°49  | 8° 5  | 16°48  | 6°48 | 9°33   | 24°11  | 4°51  | 29°22  | 28° 7 | 26°59 | n.a. |   |   |
| T 25 | 15 52 48 | 28°32'50 | 24°18 | 9°23   | 3° 0  | 8°48  | 16°49  | 6°52 | 9°31   | 24°12  | 4°50  | 29°20  | 28° 3 | 27° 6 | n.a. |   |   |
| W26  | 15 56 45 | 29°29'59 | 6♁59  | 9°46   | 4°10  | 9°31  | 16°51  | 6°57 | 9°29   | 24°12  | 4°49  | 29°17  | 28° 0 | 27°12 | n.a. |   |   |
| T 27 | 16 0 42  | 0♁27'07  | 19°54 | 10°14  | 5°21  | 10°14 | 16°52  | 7° 1 | 9°26   | 24°13  | 4°48  | 29°12  | 27°57 | 27°19 | n.a. |   |   |
| F 28 | 16 4 38  | 1°24'15  | 3♄ 3  | 10°47  | 6°32  | 10°57 | 16°54  | 7° 5 | 9°24   | 24°13  | 4°47  | 29° 7  | 27°54 | 27°26 | n.a. |   |   |
| S 29 | 16 8 35  | 2°21'23  | 16°27 | 11°24  | 7°43  | 11°40 | 16°56  | 7°10 | 9°22   | 24°14  | 4°45  | 29° 2  | 27°51 | 27°32 | n.a. |   |   |
| S 30 | 16 12 31 | 3°18'30  | 0♁ 2  | 12° 5  | 8°54  | 12°23 | 16°58  | 7°14 | 9°20   | 24°15  | 4°44  | 28°58  | 27°48 | 27°39 | n.a. |   |   |
| M31  | 16 16 28 | 4♁15'37  | 13♁50 | 12♄52  | 10♄ 4 | 13♁ 6 | 17♁ 0  | 7♁19 | 9♁18   | 24♁15  | 4♄43  | 28♁55  | 27♁44 | 27♂46 | n.a. |   |   |

Delta T = 03h31m36s Julian Calendar 1 May 202 BCE == Greg. Calendar 27 Apr. 202 BCE  
 The year -201 astronomical counting style corresponds to year 202 B.C.E historical counting style.

JUNE 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|---|---|
| T 1  | 16 20 24 | 5♁12'44  | 27♁47 | 13♄42 | 11♄15 | 13♁48 | 17♁ 2 | 7♁23  | 9°R15 | 24♁16 | 4°R42 | 28°R53 | 27♁41 | 27♂52 | n.a. |   |   |
| W 2  | 16 24 21 | 6° 9'50  | 11♁54 | 14°37 | 12°25 | 14°31 | 17° 5 | 7°28  | 9♁13  | 24°17 | 4♄41  | 28°D53 | 27°38 | 27°59 | n.a. |   |   |
| T 3  | 16 28 17 | 7° 6'56  | 26° 7 | 15°36 | 13°36 | 15°13 | 17° 7 | 7°33  | 9°11  | 24°17 | 4°40  | 28♁54  | 27°35 | 28° 6 | n.a. |   |   |
| F 4  | 16 32 14 | 8° 4'02  | 10♁27 | 16°39 | 14°46 | 15°56 | 17°10 | 7°38  | 9° 9  | 24°18 | 4°38  | 28°55  | 27°32 | 28°12 | n.a. |   |   |
| S 5  | 16 36 11 | 9° 1'08  | 24°49 | 17°47 | 15°56 | 16°38 | 17°13 | 7°43  | 9° 7  | 24°19 | 4°37  | 28°R56 | 27°28 | 28°19 | n.a. |   |   |
| S 6  | 16 40 7  | 9°58'13  | 9♁11  | 18°59 | 17° 6 | 17°20 | 17°16 | 7°48  | 9° 5  | 24°20 | 4°36  | 28°56  | 27°25 | 28°26 | n.a. |   |   |
| M 7  | 16 44 4  | 10°55'19 | 23°28 | 20°14 | 18°17 | 18° 2 | 17°20 | 7°53  | 9° 3  | 24°21 | 4°35  | 28°54  | 27°22 | 28°32 | n.a. |   |   |
| T 8  | 16 48 0  | 11°52'25 | 7♁35  | 21°34 | 19°27 | 18°44 | 17°23 | 7°58  | 9° 1  | 24°22 | 4°33  | 28°50  | 27°19 | 28°39 | n.a. |   |   |
| W 9  | 16 51 57 | 12°49'31 | 21°29 | 22°58 | 20°37 | 19°26 | 17°27 | 8° 4  | 8°59  | 24°23 | 4°32  | 28°44  | 27°16 | 28°46 | n.a. |   |   |
| T 10 | 16 55 53 | 13°46'37 | 5♄ 5  | 24°25 | 21°46 | 20° 8 | 17°31 | 8° 9  | 8°57  | 24°24 | 4°31  | 28°37  | 27°13 | 28°52 | n.a. |   |   |
| F 11 | 16 59 50 | 14°43'44 | 18°21 | 25°57 | 22°56 | 20°50 | 17°35 | 8°14  | 8°55  | 24°25 | 4°30  | 28°29  | 27° 9 | 28°59 | n.a. |   |   |
| S 12 | 17 3 46  | 15°40'51 | 1♁16  | 27°32 | 24° 6 | 21°32 | 17°39 | 8°20  | 8°54  | 24°26 | 4°28  | 28°22  | 27° 6 | 29° 6 | n.a. |   |   |
| S 13 | 17 7 43  | 16°37'59 | 13°51 | 29°11 | 25°16 | 22°13 | 17°43 | 8°25  | 8°52  | 24°27 | 4°27  | 28°16  | 27° 3 | 29°12 | n.a. |   |   |
| M14  | 17 11 40 | 17°35'07 | 26° 8 | 0♁53  | 26°25 | 22°55 | 17°48 | 8°31  | 8°50  | 24°28 | 4°26  | 28°12  | 27° 0 | 29°19 | n.a. |   |   |
| T 15 | 17 15 36 | 18°32'16 | 8♁12  | 2°39  | 27°35 | 23°36 | 17°52 | 8°36  | 8°48  | 24°29 | 4°24  | 28° 9  | 26°57 | 29°26 | n.a. |   |   |
| W16  | 17 19 33 | 19°29'26 | 20° 6 | 4°28  | 28°44 | 24°18 | 17°57 | 8°42  | 8°47  | 24°30 | 4°23  | 28°D 9 | 26°53 | 29°32 | n.a. |   |   |
| T 17 | 17 23 29 | 20°26'37 | 1♁55  | 6°20  | 29°53 | 24°59 | 18° 2 | 8°48  | 8°45  | 24°31 | 4°22  | 28° 9  | 26°50 | 29°39 | n.a. |   |   |
| F 18 | 17 27 26 | 21°23'48 | 13°46 | 8°14  | 1♁ 2  | 25°41 | 18° 7 | 8°54  | 8°43  | 24°32 | 4°20  | 28°10  | 26°47 | 29°46 | n.a. |   |   |
| S 19 | 17 31 22 | 22°21'00 | 25°43 | 10°11 | 2°12  | 26°22 | 18°13 | 9° 0  | 8°42  | 24°34 | 4°19  | 28°R11 | 26°44 | 29°52 | n.a. |   |   |
| S 20 | 17 35 19 | 23°18'13 | 7♄50  | 12°11 | 3°21  | 27° 3 | 18°18 | 9° 5  | 8°40  | 24°35 | 4°17  | 28°11  | 26°41 | 29°59 | n.a. |   |   |
| M21  | 17 39 15 | 24°15'27 | 20°11 | 14°12 | 4°30  | 27°44 | 18°24 | 9°11  | 8°39  | 24°36 | 4°16  | 28° 8  | 26°38 | 0♁ 6  | n.a. |   |   |
| T 22 | 17 43 12 | 25°12'41 | 2♁50  | 16°16 | 5°38  | 28°25 | 18°29 | 9°18  | 8°37  | 24°37 | 4°15  | 28° 4  | 26°34 | 0°12  | n.a. |   |   |
| W23  | 17 47 9  | 26° 9'57 | 15°48 | 18°20 | 6°47  | 29° 6 | 18°35 | 9°24  | 8°36  | 24°39 | 4°13  | 27°57  | 26°31 | 0°19  | n.a. |   |   |
| T 24 | 17 51 5  | 27° 7'13 | 29° 5 | 20°26 | 7°56  | 29°46 | 18°41 | 9°30  | 8°35  | 24°40 | 4°12  | 27°48  | 26°28 | 0°26  | n.a. |   |   |
| F 25 | 17 55 2  | 28° 4'30 | 12♄39 | 22°32 | 9° 4  | 0♄27  | 18°47 | 9°36  | 8°33  | 24°42 | 4°11  | 27°38  | 26°25 | 0°32  | n.a. |   |   |
| S 26 | 17 58 58 | 29° 1'48 | 26°28 | 24°39 | 10°13 | 1° 7  | 18°54 | 9°42  | 8°32  | 24°43 | 4° 9  | 27°29  | 26°22 | 0°39  | n.a. |   |   |
| S 27 | 18 2 55  | 29°59'06 | 10♁28 | 26°46 | 11°21 | 1°48  | 19° 0 | 9°49  | 8°31  | 24°44 | 4° 8  | 27°20  | 26°19 | 0°46  | n.a. |   |   |
| M28  | 18 6 51  | 0♄56'25  | 24°34 | 28°52 | 12°29 | 2°28  | 19° 7 | 9°55  | 8°30  | 24°46 | 4° 6  | 27°13  | 26°15 | 0°52  | n.a. |   |   |
| T 29 | 18 10 48 | 1°53'45  | 8♁44  | 0♄59  | 13°37 | 3° 9  | 19°13 | 10° 1 | 8°28  | 24°47 | 4° 5  | 27° 9  | 26°12 | 0°59  | n.a. |   |   |
| W30  | 18 14 44 | 2♄51'05  | 22♁54 | 3♄ 4  | 14♁45 | 3♄49  | 19♁20 | 10♁ 8 | 8♁27  | 24♁49 | 4♄ 4  | 27♁ 7  | 26♁ 9 | 1♁ 5  | n.a. |   |   |

Delta T = 03h31m35s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 202 BCE

JULY 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇     | ♈      | ♉     | ♊    | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| T 1  | 18 18 41 | 3☾48'26  | 7♂ 3  | 5☾ 9  | 15♁53 | 4♃29  | 19♂27 | 10♁14 | 8°R26 | 24♁50 | 4°R 2 | 27♂ 7  | 26♁ 6 | 1♀12 | n.a. |   |   |   |   |   |   |   |   |
| F 2  | 18 22 38 | 4°45'48  | 21°10 | 7°13  | 17° 1 | 5° 9  | 19°34 | 10°21 | 8♁25  | 24°52 | 4♃ 1  | 27°R 7 | 26° 3 | 1°19 | n.a. |   |   |   |   |   |   |   |   |
| S 3  | 18 26 34 | 5°43'10  | 5♁12  | 9°16  | 18° 9 | 5°49  | 19°41 | 10°27 | 8°24  | 24°54 | 3°59  | 27° 7  | 25°59 | 1°25 | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 18 30 31 | 6°40'33  | 19°10 | 11°18 | 19°16 | 6°28  | 19°49 | 10°34 | 8°23  | 24°55 | 3°58  | 27° 5  | 25°56 | 1°32 | n.a. |   |   |   |   |   |   |   |   |
| M 5  | 18 34 27 | 7°37'57  | 3♂ 2  | 13°18 | 20°23 | 7° 8  | 19°56 | 10°41 | 8°23  | 24°57 | 3°57  | 27° 1  | 25°53 | 1°39 | n.a. |   |   |   |   |   |   |   |   |
| T 6  | 18 38 24 | 8°35'22  | 16°45 | 15°17 | 21°31 | 7°48  | 20° 4 | 10°47 | 8°22  | 24°58 | 3°55  | 26°54  | 25°50 | 1°45 | n.a. |   |   |   |   |   |   |   |   |
| W 7  | 18 42 20 | 9°32'48  | 0♃17  | 17°14 | 22°38 | 8°27  | 20°12 | 10°54 | 8°21  | 25° 0 | 3°54  | 26°45  | 25°47 | 1°52 | n.a. |   |   |   |   |   |   |   |   |
| T 8  | 18 46 17 | 10°30'15 | 13°35 | 19°11 | 23°45 | 9° 6  | 20°20 | 11° 1 | 8°20  | 25° 2 | 3°52  | 26°33  | 25°44 | 1°59 | n.a. |   |   |   |   |   |   |   |   |
| F 9  | 18 50 14 | 11°27'43 | 26°38 | 21° 5 | 24°51 | 9°46  | 20°27 | 11° 8 | 8°19  | 25° 3 | 3°51  | 26°21  | 25°40 | 2° 5 | n.a. |   |   |   |   |   |   |   |   |
| S 10 | 18 54 10 | 12°25'13 | 9♁24  | 22°58 | 25°58 | 10°25 | 20°36 | 11°14 | 8°19  | 25° 5 | 3°50  | 26°10  | 25°37 | 2°12 | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 18 58 7  | 13°22'43 | 21°53 | 24°50 | 27° 4 | 11° 4 | 20°44 | 11°21 | 8°18  | 25° 7 | 3°48  | 25°59  | 25°34 | 2°19 | n.a. |   |   |   |   |   |   |   |   |
| M12  | 19 2 3   | 14°20'16 | 4♂ 6  | 26°40 | 28°11 | 11°43 | 20°52 | 11°28 | 8°18  | 25° 9 | 3°47  | 25°51  | 25°31 | 2°25 | n.a. |   |   |   |   |   |   |   |   |
| T 13 | 19 6 0   | 15°17'49 | 16° 8 | 28°28 | 29°17 | 12°22 | 21° 1 | 11°35 | 8°17  | 25°11 | 3°45  | 25°46  | 25°28 | 2°32 | n.a. |   |   |   |   |   |   |   |   |
| W14  | 19 9 56  | 16°15'25 | 28° 0 | 0♁16  | 0♂23  | 13° 1 | 21° 9 | 11°42 | 8°17  | 25°12 | 3°44  | 25°43  | 25°25 | 2°39 | n.a. |   |   |   |   |   |   |   |   |
| T 15 | 19 13 53 | 17°13'01 | 9♀49  | 2° 1  | 1°29  | 13°39 | 21°18 | 11°49 | 8°16  | 25°14 | 3°43  | 25°41  | 25°21 | 2°45 | n.a. |   |   |   |   |   |   |   |   |
| F 16 | 19 17 49 | 18°10'40 | 21°39 | 3°45  | 2°34  | 14°18 | 21°27 | 11°56 | 8°16  | 25°16 | 3°41  | 25°41  | 25°18 | 2°52 | n.a. |   |   |   |   |   |   |   |   |
| S 17 | 19 21 46 | 19° 8'20 | 3♂36  | 5°28  | 3°40  | 14°56 | 21°36 | 12° 3 | 8°16  | 25°18 | 3°40  | 25°41  | 25°15 | 2°59 | n.a. |   |   |   |   |   |   |   |   |
| S 18 | 19 25 42 | 20° 6'02 | 15°45 | 7° 9  | 4°45  | 15°34 | 21°45 | 12°10 | 8°16  | 25°20 | 3°39  | 25°40  | 25°12 | 3° 5 | n.a. |   |   |   |   |   |   |   |   |
| M19  | 19 29 39 | 21° 3'46 | 28°11 | 8°49  | 5°50  | 16°13 | 21°54 | 12°18 | 8°15  | 25°22 | 3°37  | 25°37  | 25° 9 | 3°12 | n.a. |   |   |   |   |   |   |   |   |
| T 20 | 19 33 36 | 22° 1'31 | 10♁58 | 10°27 | 6°55  | 16°51 | 22° 3 | 12°25 | 8°15  | 25°24 | 3°36  | 25°31  | 25° 5 | 3°19 | n.a. |   |   |   |   |   |   |   |   |
| W21  | 19 37 32 | 22°59'18 | 24° 8 | 12° 4 | 8° 0  | 17°29 | 22°12 | 12°32 | 8°15  | 25°26 | 3°35  | 25°23  | 25° 2 | 3°25 | n.a. |   |   |   |   |   |   |   |   |
| T 22 | 19 41 29 | 23°57'07 | 7♁42  | 13°40 | 9° 4  | 18° 7 | 22°22 | 12°39 | 8°D15 | 25°28 | 3°33  | 25°12  | 24°59 | 3°32 | n.a. |   |   |   |   |   |   |   |   |
| F 23 | 19 45 25 | 24°54'57 | 21°38 | 15°14 | 10° 9 | 18°44 | 22°31 | 12°46 | 8°15  | 25°29 | 3°32  | 25° 1  | 24°56 | 3°39 | n.a. |   |   |   |   |   |   |   |   |
| S 24 | 19 49 22 | 25°52'49 | 5♁51  | 16°46 | 11°13 | 19°22 | 22°41 | 12°54 | 8°15  | 25°31 | 3°31  | 24°49  | 24°53 | 3°45 | n.a. |   |   |   |   |   |   |   |   |
| S 25 | 19 53 18 | 26°50'43 | 20°17 | 18°18 | 12°17 | 19°59 | 22°51 | 13° 1 | 8°15  | 25°33 | 3°30  | 24°38  | 24°50 | 3°52 | n.a. |   |   |   |   |   |   |   |   |
| M26  | 19 57 15 | 27°48'38 | 4♂48  | 19°47 | 13°20 | 20°37 | 23° 0 | 13° 8 | 8°16  | 25°35 | 3°28  | 24°30  | 24°46 | 3°59 | n.a. |   |   |   |   |   |   |   |   |
| T 27 | 20 1 12  | 28°46'34 | 19°19 | 21°16 | 14°24 | 21°14 | 23°10 | 13°16 | 8°16  | 25°38 | 3°27  | 24°24  | 24°43 | 4° 5 | n.a. |   |   |   |   |   |   |   |   |
| W28  | 20 5 8   | 29°44'32 | 3♁44  | 22°43 | 15°27 | 21°51 | 23°20 | 13°23 | 8°16  | 25°40 | 3°26  | 24°21  | 24°40 | 4°12 | n.a. |   |   |   |   |   |   |   |   |
| T 29 | 20 9 5   | 0♁42'31  | 17°59 | 24° 8 | 16°30 | 22°28 | 23°30 | 13°30 | 8°16  | 25°42 | 3°25  | 24°20  | 24°37 | 4°19 | n.a. |   |   |   |   |   |   |   |   |
| F 30 | 20 13 1  | 1°40'32  | 2♁ 4  | 25°32 | 17°33 | 23° 5 | 23°41 | 13°38 | 8°17  | 25°44 | 3°23  | 24°20  | 24°34 | 4°25 | n.a. |   |   |   |   |   |   |   |   |
| S 31 | 20 16 58 | 2♁38'34  | 15♁57 | 26♁54 | 18♂35 | 23♂42 | 23♂51 | 13♁45 | 8♁17  | 25♁46 | 3♂22  | 24♁20  | 24♁31 | 4♀32 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 03h31m34s Julian Calendar 1 July 202 BCE == Greg. Calendar 27 June 202 BCE  
 The year -201 astronomical counting style corresponds to year 202 B.C.E historical counting style.

AUGUST 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♄     | ♅    | ♆     | ♇     | ♈      | ♉     | ♊    | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|----------|-------|--------|-------|-------|-------|-------|------|-------|-------|--------|-------|------|------|---|---|---|---|---|---|---|---|
| S 1  | 20 20 54 | 3♁36'38  | 29♁40 | 28♁15  | 19♂37 | 24♂18 | 24♂ 1 | 13♁52 | 8♁18 | 25♁48 | 3°R21 | 24°R18 | 24♁27 | 4♀39 | n.a. |   |   |   |   |   |   |   |   |
| M 2  | 20 24 51 | 4°34'43  | 13♂11 | 29°35  | 20°39 | 24°55 | 24°12 | 14° 0 | 8°18 | 25°50 | 3♂20  | 24♁13  | 24°24 | 4°45 | n.a. |   |   |   |   |   |   |   |   |
| T 3  | 20 28 47 | 5°32'50  | 26°31 | 0♂52   | 21°41 | 25°31 | 24°22 | 14° 7 | 8°19 | 25°52 | 3°19  | 24° 6  | 24°21 | 4°52 | n.a. |   |   |   |   |   |   |   |   |
| W 4  | 20 32 44 | 6°30'58  | 9♂40  | 2° 8   | 22°42 | 26° 7 | 24°33 | 14°15 | 8°19 | 25°54 | 3°18  | 23°56  | 24°18 | 4°58 | n.a. |   |   |   |   |   |   |   |   |
| T 5  | 20 36 41 | 7°29'08  | 22°37 | 3°22   | 23°43 | 26°43 | 24°44 | 14°22 | 8°20 | 25°56 | 3°16  | 23°44  | 24°15 | 5° 5 | n.a. |   |   |   |   |   |   |   |   |
| F 6  | 20 40 37 | 8°27'20  | 5♁21  | 4°35   | 24°44 | 27°19 | 24°55 | 14°30 | 8°21 | 25°58 | 3°15  | 23°32  | 24°11 | 5°12 | n.a. |   |   |   |   |   |   |   |   |
| S 7  | 20 44 34 | 9°25'33  | 17°53 | 5°45   | 25°44 | 27°55 | 25° 5 | 14°37 | 8°22 | 26° 1 | 3°14  | 23°19  | 24° 8 | 5°18 | n.a. |   |   |   |   |   |   |   |   |
| S 8  | 20 48 30 | 10°23'49 | 0♂11  | 6°54   | 26°44 | 28°30 | 25°16 | 14°44 | 8°23 | 26° 3 | 3°13  | 23° 8  | 24° 5 | 5°25 | n.a. |   |   |   |   |   |   |   |   |
| M 9  | 20 52 27 | 11°22'06 | 12°18 | 8° 0   | 27°44 | 29° 6 | 25°27 | 14°52 | 8°23 | 26° 5 | 3°12  | 22°59  | 24° 2 | 5°32 | n.a. |   |   |   |   |   |   |   |   |
| T 10 | 20 56 23 | 12°20'26 | 24°15 | 9° 4   | 28°43 | 29°41 | 25°38 | 14°59 | 8°24 | 26° 7 | 3°11  | 22°53  | 23°59 | 5°38 | n.a. |   |   |   |   |   |   |   |   |
| W11  | 21 0 20  | 13°18'48 | 6♀ 5  | 10° 6  | 29°42 | 0♁16  | 25°50 | 15° 7 | 8°25 | 26° 9 | 3°10  | 22°50  | 23°56 | 5°45 | n.a. |   |   |   |   |   |   |   |   |
| T 12 | 21 4 16  | 14°17'11 | 17°52 | 11° 6  | 0♁40  | 0°51  | 26° 1 | 15°14 | 8°26 | 26°12 | 3° 9  | 22°D48 | 23°52 | 5°52 | n.a. |   |   |   |   |   |   |   |   |
| F 13 | 21 8 13  | 15°15'37 | 29°40 | 12° 2  | 1°38  | 1°26  | 26°12 | 15°22 | 8°28 | 26°14 | 3° 8  | 22°48  | 23°49 | 5°58 | n.a. |   |   |   |   |   |   |   |   |
| S 14 | 21 12 9  | 16°14'06 | 11♂36 | 12°56  | 2°36  | 2° 1  | 26°24 | 15°29 | 8°29 | 26°16 | 3° 7  | 22°R49 | 23°46 | 6° 5 | n.a. |   |   |   |   |   |   |   |   |
| S 15 | 21 16 6  | 17°12'36 | 23°43 | 13°47  | 3°33  | 2°35  | 26°35 | 15°37 | 8°30 | 26°18 | 3° 6  | 22°49  | 23°43 | 6°12 | n.a. |   |   |   |   |   |   |   |   |
| M16  | 21 20 3  | 18°11'09 | 6♁ 8  | 14°35  | 4°30  | 3°10  | 26°47 | 15°44 | 8°31 | 26°20 | 3° 5  | 22°47  | 23°40 | 6°18 | n.a. |   |   |   |   |   |   |   |   |
| T 17 | 21 23 59 | 19° 9'44 | 18°56 | 15°19  | 5°26  | 3°44  | 26°58 | 15°52 | 8°33 | 26°23 | 3° 5  | 22°43  | 23°37 | 6°25 | n.a. |   |   |   |   |   |   |   |   |
| W18  | 21 27 56 | 20° 8'22 | 2☾ 9  | 15°59  | 6°22  | 4°18  | 27°10 | 15°59 | 8°34 | 26°25 | 3° 4  | 22°37  | 23°33 | 6°32 | n.a. |   |   |   |   |   |   |   |   |
| T 19 | 21 31 52 | 21° 7'02 | 15°50 | 16°35  | 7°18  | 4°52  | 27°22 | 16° 7 | 8°35 | 26°27 | 3° 3  | 22°29  | 23°30 | 6°38 | n.a. |   |   |   |   |   |   |   |   |
| F 20 | 21 35 49 | 22° 5'44 | 29°57 | 17° 7  | 8°13  | 5°26  | 27°33 | 16°14 | 8°37 | 26°29 | 3° 2  | 22°20  | 23°27 | 6°45 | n.a. |   |   |   |   |   |   |   |   |
| S 21 | 21 39 45 | 23° 4'28 | 14♁27 | 17°35  | 9° 7  | 5°59  | 27°45 | 16°22 | 8°38 | 26°31 | 3° 1  | 22°10  | 23°24 | 6°52 | n.a. |   |   |   |   |   |   |   |   |
| S 22 | 21 43 42 | 24° 3'14 | 29°14 | 17°57  | 10° 1 | 6°32  | 27°57 | 16°29 | 8°40 | 26°34 | 3° 0  | 22° 2  | 23°21 | 6°58 | n.a. |   |   |   |   |   |   |   |   |
| M23  | 21 47 38 | 25° 2'02 | 14♂ 8 | 18°14  | 10°54 | 7° 6  | 28° 9 | 16°36 | 8°41 | 26°36 | 3° 0  | 21°55  | 23°17 | 7° 5 | n.a. |   |   |   |   |   |   |   |   |
| T 24 | 21 51 35 | 26° 0'52 | 29° 2 | 18°25  | 11°47 | 7°39  | 28°21 | 16°44 | 8°43 | 26°38 | 2°59  | 21°50  | 23°14 | 7°12 | n.a. |   |   |   |   |   |   |   |   |
| W25  | 21 55 32 | 26°59'44 | 13♁49 | 18°R30 | 12°39 | 8°11  | 28°33 | 16°51 | 8°45 | 26°40 | 2°58  | 21°48  | 23°11 | 7°18 | n.a. |   |   |   |   |   |   |   |   |
| T 26 | 21 59 28 | 27°58'38 | 28°21 | 18°28  | 13°30 | 8°44  | 28°45 | 16°59 | 8°46 | 26°43 | 2°58  | 21°D48 | 23° 8 | 7°25 | n.a. |   |   |   |   |   |   |   |   |
| F 27 | 22 3 25  | 28°57'34 | 12♁35 | 18°19  | 14°21 | 9°16  | 28°57 | 17° 6 | 8°48 | 26°45 | 2°57  | 21°49  | 23° 5 | 7°31 | n.a. |   |   |   |   |   |   |   |   |
| S 28 | 22 7 21  | 29°56'32 | 26°31 | 18° 4  | 15°11 | 9°48  | 29°10 | 17°13 | 8°50 | 26°47 | 2°56  | 21°R50 | 23° 2 | 7°38 | n.a. |   |   |   |   |   |   |   |   |
| S 29 | 22 11 18 | 0♂55'32  | 10♂ 9 | 17°40  | 16° 1 | 10°20 | 29°22 | 17°21 | 8°52 | 26°49 | 2°56  | 21°49  | 22°58 | 7°45 | n.a. |   |   |   |   |   |   |   |   |
| M30  | 22 15 14 | 1°54'33  | 23°29 | 17°10  | 16°49 | 10°52 | 29°34 | 17°28 | 8°54 | 26°52 | 2°55  | 21°47  | 22°55 | 7°51 | n.a. |   |   |   |   |   |   |   |   |
| T 31 | 22 19 11 | 2♂53'36  | 6♂34  | 16♂31  | 17♁37 | 11♁24 | 29♂47 | 17♁35 | 8♁56 | 26♁54 | 2♂55  | 21♁43  | 22♁52 | 7♀58 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 03h31m33s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 202 BCE

SEPTEMBER 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t    | ☉                    | ☽                    | ♀                  | ♁                  | ♂                  | ♃                  | ♄                   | ♅                  | ♆                   | ♇     | ♈      | ♉                   | ♊                | ♋    | ♌    | ♍ |
|------|----------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------|--------|---------------------|------------------|------|------|---|
| W 1  | 22 23 7  | 3 <sup>h</sup> 52'41 | 19 <sup>h</sup> 32'4 | 15°R46             | 18 <sup>h</sup> 24 | 11 <sup>h</sup> 55 | 29 <sup>h</sup> 59 | 17 <sup>h</sup> 043 | 8 <sup>h</sup> 58  | 26 <sup>h</sup> 056 | 2°R54 | 21°R37 | 22 <sup>h</sup> 049 | 8 <sup>h</sup> 7 | 5    | n.a. |   |
| T 2  | 22 27 4  | 4°51'49              | 2 <sup>h</sup> 28    | 14 <sup>h</sup> 53 | 19°10              | 12°26              | 0 <sup>h</sup> 12  | 17°50               | 9° 0               | 26°58               | 2°353 | 21°29  | 22°46               | 8°11             | n.a. |      |   |
| F 3  | 22 31 1  | 5°50'58              | 14°29                | 13°55              | 19°56              | 12°57              | 0°24               | 17°57               | 9° 2               | 27° 0               | 2°53  | 21°20  | 22°42               | 8°18             | n.a. |      |   |
| S 4  | 22 34 57 | 6°50'09              | 26°45                | 12°51              | 20°40              | 13°28              | 0°37               | 18° 5               | 9° 4               | 27° 3               | 2°53  | 21°12  | 22°39               | 8°25             | n.a. |      |   |
| S 5  | 22 38 54 | 7°49'22              | 8 <sup>h</sup> 51    | 11°44              | 21°24              | 13°58              | 0°49               | 18°12               | 9° 6               | 27° 5               | 2°52  | 21° 4  | 22°36               | 8°31             | n.a. |      |   |
| M 6  | 22 42 50 | 8°48'37              | 20°49                | 10°34              | 22° 6              | 14°29              | 1° 2               | 18°19               | 9° 9               | 27° 7               | 2°52  | 20°59  | 22°33               | 8°38             | n.a. |      |   |
| T 7  | 22 46 47 | 9°47'54              | 2 <sup>h</sup> 41    | 9°24               | 22°47              | 14°59              | 1°15               | 18°26               | 9°11               | 27° 9               | 2°51  | 20°55  | 22°30               | 8°45             | n.a. |      |   |
| W 8  | 22 50 43 | 10°47'14             | 14°29                | 8°15               | 23°28              | 15°29              | 1°27               | 18°33               | 9°13               | 27°11               | 2°51  | 20°53  | 22°27               | 8°51             | n.a. |      |   |
| T 9  | 22 54 40 | 11°46'36             | 26°15                | 7° 9               | 24° 7              | 15°58              | 1°40               | 18°40               | 9°15               | 27°14               | 2°51  | 20°D53 | 22°23               | 8°58             | n.a. |      |   |
| F 10 | 22 58 36 | 12°46'01             | 8 <sup>h</sup> 4     | 6° 9               | 24°45              | 16°27              | 1°53               | 18°47               | 9°18               | 27°16               | 2°50  | 20°54  | 22°20               | 9° 5             | n.a. |      |   |
| S 11 | 23 2 33  | 13°45'27             | 19°59                | 5°15               | 25°22              | 16°56              | 2° 6               | 18°54               | 9°20               | 27°18               | 2°50  | 20°56  | 22°17               | 9°11             | n.a. |      |   |
| S 12 | 23 6 30  | 14°44'57             | 2 <sup>h</sup> 11    | 4°30               | 25°58              | 17°25              | 2°18               | 19° 1               | 9°23               | 27°20               | 2°50  | 20°57  | 22°14               | 9°18             | n.a. |      |   |
| M 13 | 23 10 26 | 15°44'28             | 14°28                | 3°55               | 26°32              | 17°54              | 2°31               | 19° 8               | 9°25               | 27°22               | 2°50  | 20°R58 | 22°11               | 9°25             | n.a. |      |   |
| T 14 | 23 14 23 | 16°44'02             | 27°11                | 3°30               | 27° 5              | 18°22              | 2°44               | 19°15               | 9°28               | 27°24               | 2°50  | 20°57  | 22° 8               | 9°31             | n.a. |      |   |
| W 15 | 23 18 19 | 17°43'39             | 10 <sup>h</sup> 20   | 3°15               | 27°37              | 18°50              | 2°57               | 19°22               | 9°30               | 27°27               | 2°49  | 20°55  | 22° 4               | 9°38             | n.a. |      |   |
| T 16 | 23 22 16 | 18°43'17             | 23°56                | 3°D12              | 28° 7              | 19°18              | 3°10               | 19°29               | 9°33               | 27°29               | 2°49  | 20°52  | 22° 1               | 9°44             | n.a. |      |   |
| F 17 | 23 26 12 | 19°42'59             | 8 <sup>h</sup> 1     | 3°20               | 28°36              | 19°45              | 3°23               | 19°36               | 9°36               | 27°31               | 2°49  | 20°48  | 21°58               | 9°51             | n.a. |      |   |
| S 18 | 23 30 9  | 20°42'42             | 22°32                | 3°38               | 29° 3              | 20°12              | 3°36               | 19°43               | 9°38               | 27°33               | 2°49  | 20°43  | 21°55               | 9°58             | n.a. |      |   |
| S 19 | 23 34 5  | 21°42'28             | 7 <sup>h</sup> 25    | 4° 7               | 29°29              | 20°39              | 3°49               | 19°49               | 9°41               | 27°35               | 2°49  | 20°39  | 21°52               | 10° 4            | n.a. |      |   |
| M 20 | 23 38 2  | 22°42'15             | 22°32                | 4°45               | 29°52              | 21° 6              | 4° 2               | 19°56               | 9°44               | 27°37               | 2°D49 | 20°36  | 21°48               | 10°11            | n.a. |      |   |
| T 21 | 23 41 58 | 23°42'05             | 7 <sup>h</sup> 43    | 5°31               | 0 <sup>h</sup> 15  | 21°32              | 4°15               | 20° 3               | 9°47               | 27°39               | 2°49  | 20°34  | 21°45               | 10°18            | n.a. |      |   |
| W 22 | 23 45 55 | 24°41'57             | 22°48                | 6°26               | 0°35               | 21°58              | 4°28               | 20° 9               | 9°50               | 27°41               | 2°49  | 20°D33 | 21°42               | 10°24            | n.a. |      |   |
| T 23 | 23 49 52 | 25°41'51             | 7 <sup>h</sup> 14    | 7°27               | 0°53               | 22°24              | 4°41               | 20°16               | 9°52               | 27°43               | 2°49  | 20°34  | 21°39               | 10°31            | n.a. |      |   |
| F 24 | 23 53 48 | 26°41'47             | 22°12                | 8°35               | 1°10               | 22°49              | 4°55               | 20°23               | 9°55               | 27°45               | 2°49  | 20°35  | 21°36               | 10°38            | n.a. |      |   |
| S 25 | 23 57 45 | 27°41'44             | 6 <sup>h</sup> 21    | 9°47               | 1°24               | 23°14              | 5° 8               | 20°29               | 9°58               | 27°47               | 2°49  | 20°37  | 21°33               | 10°44            | n.a. |      |   |
| S 26 | 0 1 41   | 28°41'43             | 20° 5                | 11° 5              | 1°37               | 23°38              | 5°21               | 20°35               | 10° 1              | 27°49               | 2°50  | 20°38  | 21°29               | 10°51            | n.a. |      |   |
| M 27 | 0 5 38   | 29°41'44             | 3 <sup>h</sup> 25    | 12°26              | 1°47               | 24° 3              | 5°34               | 20°42               | 10° 4              | 27°51               | 2°50  | 20°R38 | 21°26               | 10°58            | n.a. |      |   |
| T 28 | 0 9 34   | 0 <sup>h</sup> 41'47 | 16°25                | 13°51              | 1°55               | 24°26              | 5°47               | 20°48               | 10° 7              | 27°53               | 2°50  | 20°37  | 21°23               | 11° 4            | n.a. |      |   |
| W 29 | 0 13 31  | 1°41'51              | 29° 6                | 15°19              | 2° 1               | 24°50              | 6° 0               | 20°55               | 10°10              | 27°55               | 2°50  | 20°36  | 21°20               | 11°11            | n.a. |      |   |
| T 30 | 0 17 27  | 2 <sup>h</sup> 41'57 | 11 <sup>h</sup> 31   | 16 <sup>h</sup> 49 | 2 <sup>h</sup> 4   | 25 <sup>h</sup> 13 | 6 <sup>h</sup> 14  | 21 <sup>h</sup> 1   | 10 <sup>h</sup> 14 | 27 <sup>h</sup> 57  | 2°350 | 20°33  | 21°17               | 11°18            | n.a. |      |   |

Delta T = 03h31m32s Julian Calendar 1 Sept. 202 BCE == Greg. Calendar 28 Aug. 202 BCE

The year -201 astronomical counting style corresponds to year 202 B.C.E historical counting style.

OCTOBER 202 BCE (-201) JC

00:00 UT

| Day  | Sid.t   | ☉                    | ☽                  | ♀                  | ♁                | ♂                  | ♃                 | ♄                 | ♅                  | ♆                   | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ |
|------|---------|----------------------|--------------------|--------------------|------------------|--------------------|-------------------|-------------------|--------------------|---------------------|-------|--------|-------|-------|------|---|---|
| F 1  | 0 21 24 | 3 <sup>h</sup> 42'05 | 23 <sup>h</sup> 44 | 18 <sup>h</sup> 21 | 2°R 5            | 25 <sup>h</sup> 36 | 6 <sup>h</sup> 27 | 21 <sup>h</sup> 7 | 10 <sup>h</sup> 17 | 27 <sup>h</sup> 059 | 2°351 | 20°R30 | 21°13 | 11°24 | n.a. |   |   |
| S 2  | 0 25 21 | 4°42'14              | 5 <sup>h</sup> 48  | 19°54              | 2 <sup>h</sup> 4 | 25°58              | 6°40              | 21°13             | 10°20              | 28° 1               | 2°51  | 20°28  | 21°10 | 11°31 | n.a. |   |   |
| S 3  | 0 29 17 | 5°42'26              | 17°44              | 21°29              | 2° 0             | 26°20              | 6°53              | 21°19             | 10°23              | 28° 3               | 2°51  | 20°26  | 21° 7 | 11°37 | n.a. |   |   |
| M 4  | 0 33 14 | 6°42'39              | 29°35              | 23° 5              | 1°54             | 26°42              | 7° 6              | 21°25             | 10°26              | 28° 4               | 2°52  | 20°24  | 21° 4 | 11°44 | n.a. |   |   |
| T 5  | 0 37 10 | 7°42'54              | 11 <sup>h</sup> 24 | 24°41              | 1°45             | 27° 3              | 7°20              | 21°31             | 10°29              | 28° 6               | 2°52  | 20°23  | 21° 1 | 11°51 | n.a. |   |   |
| W 6  | 0 41 7  | 8°43'10              | 23°11              | 26°18              | 1°34             | 27°24              | 7°33              | 21°37             | 10°33              | 28° 8               | 2°53  | 20°D23 | 20°58 | 11°57 | n.a. |   |   |
| T 7  | 0 45 3  | 9°43'29              | 5 <sup>h</sup> 0   | 27°56              | 1°21             | 27°44              | 7°46              | 21°43             | 10°36              | 28°10               | 2°53  | 20°23  | 20°54 | 12° 4 | n.a. |   |   |
| F 8  | 0 49 0  | 10°43'50             | 16°53              | 29°33              | 1° 5             | 28° 4              | 7°59              | 21°49             | 10°39              | 28°12               | 2°54  | 20°24  | 20°51 | 12°11 | n.a. |   |   |
| S 9  | 0 52 56 | 11°44'12             | 28°53              | 1 <sup>h</sup> 11  | 0°47             | 28°24              | 8°13              | 21°54             | 10°43              | 28°13               | 2°54  | 20°25  | 20°48 | 12°17 | n.a. |   |   |
| S 10 | 0 56 53 | 12°44'37             | 11 <sup>h</sup> 3  | 2°49               | 0°26             | 28°43              | 8°26              | 22° 0             | 10°46              | 28°15               | 2°55  | 20°26  | 20°45 | 12°24 | n.a. |   |   |
| M 11 | 1 0 50  | 13°45'04             | 23°27              | 4°27               | 0° 4             | 29° 1              | 8°39              | 22° 5             | 10°49              | 28°17               | 2°55  | 20°27  | 20°42 | 12°31 | n.a. |   |   |
| T 12 | 1 4 46  | 14°45'32             | 6 <sup>h</sup> 8   | 6° 4               | 29°39            | 29°19              | 8°52              | 22°11             | 10°53              | 28°19               | 2°56  | 20°27  | 20°39 | 12°37 | n.a. |   |   |
| W 13 | 1 8 43  | 15°46'03             | 19°10              | 7°42               | 29°12            | 29°37              | 9° 5              | 22°16             | 10°56              | 28°20               | 2°57  | 20°R27 | 20°35 | 12°44 | n.a. |   |   |
| T 14 | 1 12 39 | 16°46'35             | 2 <sup>h</sup> 37  | 9°19               | 28°44            | 29°54              | 9°19              | 22°22             | 11° 0              | 28°22               | 2°57  | 20°27  | 20°32 | 12°51 | n.a. |   |   |
| F 15 | 1 16 36 | 17°47'10             | 16°29              | 10°57              | 28°13            | 0 <sup>h</sup> 11  | 9°32              | 22°27             | 11° 3              | 28°23               | 2°58  | 20°27  | 20°29 | 12°57 | n.a. |   |   |
| S 16 | 1 20 32 | 18°47'46             | 0 <sup>h</sup> 48  | 12°34              | 27°42            | 0°27               | 9°45              | 22°32             | 11° 6              | 28°25               | 2°59  | 20°26  | 20°26 | 13° 4 | n.a. |   |   |
| S 17 | 1 24 29 | 19°48'25             | 15°30              | 14°11              | 27° 9            | 0°42               | 9°58              | 22°37             | 11°10              | 28°27               | 3° 0  | 20°26  | 20°23 | 13°11 | n.a. |   |   |
| M 18 | 1 28 25 | 20°49'05             | 0 <sup>h</sup> 30  | 15°47              | 26°34            | 0°57               | 10°11             | 22°43             | 11°13              | 28°28               | 3° 0  | 20°D26 | 20°19 | 13°17 | n.a. |   |   |
| T 19 | 1 32 22 | 21°49'46             | 15°41              | 17°24              | 25°59            | 1°12               | 10°24             | 22°48             | 11°17              | 28°30               | 3° 1  | 20°R26 | 20°16 | 13°24 | n.a. |   |   |
| W 20 | 1 36 18 | 22°50'30             | 0 <sup>h</sup> 54  | 19° 0              | 25°24            | 1°26               | 10°37             | 22°53             | 11°21              | 28°31               | 3° 2  | 20°26  | 20°13 | 13°30 | n.a. |   |   |
| T 21 | 1 40 15 | 23°51'14             | 15°58              | 20°36              | 24°47            | 1°39               | 10°51             | 22°57             | 11°24              | 28°33               | 3° 3  | 20°26  | 20°10 | 13°37 | n.a. |   |   |
| F 22 | 1 44 12 | 24°52'01             | 0 <sup>h</sup> 44  | 22°11              | 24°11            | 1°52               | 11° 4             | 23° 2             | 11°28              | 28°34               | 3° 4  | 20°26  | 20° 7 | 13°44 | n.a. |   |   |
| S 23 | 1 48 8  | 25°52'48             | 15° 8              | 23°47              | 23°35            | 2° 4               | 11°17             | 23° 7             | 11°31              | 28°35               | 3° 5  | 20°25  | 20° 4 | 13°50 | n.a. |   |   |
| S 24 | 1 52 5  | 26°53'37             | 29° 5              | 25°22              | 22°59            | 2°15               | 11°30             | 23°11             | 11°35              | 28°37               | 3° 6  | 20°24  | 20° 0 | 13°57 | n.a. |   |   |
| M 25 | 1 56 1  | 27°54'26             | 12 <sup>h</sup> 34 | 26°57              | 22°24            | 2°26               | 11°43             | 23°16             | 11°38              | 28°38               | 3° 7  | 20°24  | 19°57 | 14° 4 | n.a. |   |   |
| T 26 | 1 59 58 | 28°55'17             | 25°37              | 28°32              | 21°49            | 2°36               | 11°56             | 23°20             | 11°42              | 28°39               | 3° 8  | 20°D24 | 19°54 | 14°10 | n.a. |   |   |
| W 27 | 2 3 54  | 29°56'09             | 8 <sup>h</sup> 17  | 0 <sup>h</sup> 7   | 21°16            | 2°46               | 12° 9             | 23°25             | 11°46              | 28°41               | 3° 9  | 20°24  | 19°51 | 14°17 | n.a. |   |   |
| T 28 | 2 7 51  | 0 <sup>h</sup> 57'02 | 20°39              | 1°41               | 20°43            | 2°55               | 12°22             | 23°29             | 11°49              | 28°42               | 3°10  | 20°24  | 19°48 | 14°24 | n.a. |   |   |
| F 29 | 2 11 47 | 1°57'56              | 2 <sup>h</sup> 46  | 3°16               | 20°13            | 3° 3               | 12°34             | 23°33             | 11°53              | 28°43               | 3°11  | 20°25  | 19°45 | 14°30 | n.a. |   |   |
| S 30 | 2 15 44 | 2°58'50              | 14°42              | 4°50               | 19°43            | 3°11               | 12°47             | 23°37             | 11°57              | 28°44               | 3°12  | 20°27  | 19°41 | 14°37 | n.a. |   |   |
| S 31 | 2 19 41 | 3 <sup>h</sup> 59'46 | 26 <sup>h</sup> 32 | 6 <sup>h</sup> 24  | 19°16            | 3°18               | 13° 0             | 23°41             | 12 <sup>h</sup> 0  | 28°46               | 3°13  | 20°28  | 19°38 | 14°44 | n.a. |   |   |

Delta T = 03h31m31s

Julian Calendar

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SWISS EPHEMERIS for the year 202 BCE

NOVEMBER 202 BCE (-201) JC

00:00 UT

| Day | Sid.t   | ☉        | ☽     | ♀     | ♂      | ♃     | ♄     | ♅     | ♆     | ♇     | ♁    | ♂      | ♁     | ♃     | ♄    |
|-----|---------|----------|-------|-------|--------|-------|-------|-------|-------|-------|------|--------|-------|-------|------|
| M 1 | 2 23 37 | 5♁ 0'43  | 8♃20  | 7♁58  | 18°R51 | 3♁24  | 13♁13 | 23♁45 | 12♁ 4 | 28♁47 | 3♁14 | 20♁29  | 19♁35 | 14♃50 | n.a. |
| T 2 | 2 27 34 | 6° 1'41  | 20° 7 | 9°32  | 18♁27  | 3°29  | 13°26 | 23°49 | 12° 8 | 28°48 | 3°15 | 20°R29 | 19°32 | 14°57 | n.a. |
| W 3 | 2 31 30 | 7° 2'39  | 1♁58  | 11° 6 | 18° 6  | 3°34  | 13°38 | 23°53 | 12°11 | 28°49 | 3°16 | 20°29  | 19°29 | 15° 3 | n.a. |
| T 4 | 2 35 27 | 8° 3'39  | 13°54 | 12°40 | 17°48  | 3°38  | 13°51 | 23°57 | 12°15 | 28°50 | 3°18 | 20°27  | 19°25 | 15°10 | n.a. |
| F 5 | 2 39 23 | 9° 4'40  | 25°56 | 14°14 | 17°31  | 3°42  | 14° 4 | 24° 0 | 12°19 | 28°51 | 3°19 | 20°25  | 19°22 | 15°17 | n.a. |
| S 6 | 2 43 20 | 10° 5'42 | 8♁ 7  | 15°48 | 17°18  | 3°44  | 14°16 | 24° 4 | 12°22 | 28°52 | 3°20 | 20°22  | 19°19 | 15°23 | n.a. |
| S 7 | 2 47 16 | 11° 6'46 | 20°29 | 17°22 | 17° 6  | 3°46  | 14°29 | 24° 7 | 12°26 | 28°53 | 3°21 | 20°19  | 19°16 | 15°30 | n.a. |
| M 8 | 2 51 13 | 12° 7'50 | 3♁ 2  | 18°56 | 16°57  | 3°47  | 14°41 | 24°10 | 12°30 | 28°54 | 3°23 | 20°15  | 19°13 | 15°37 | n.a. |
| T 9 | 2 55 10 | 13° 8'55 | 15°49 | 20°30 | 16°51  | 3°R47 | 14°54 | 24°14 | 12°33 | 28°55 | 3°24 | 20°12  | 19°10 | 15°43 | n.a. |
| W10 | 2 59 6  | 14°10'02 | 28°53 | 22° 4 | 16°47  | 3°47  | 15° 6 | 24°17 | 12°37 | 28°56 | 3°25 | 20°10  | 19° 6 | 15°50 | n.a. |
| T11 | 3 3 3   | 15°11'09 | 12♁14 | 23°38 | 16°D46 | 3°45  | 15°18 | 24°20 | 12°41 | 28°57 | 3°27 | 20°D 9 | 19° 3 | 15°57 | n.a. |
| F12 | 3 6 59  | 16°12'18 | 25°55 | 25°12 | 16°47  | 3°43  | 15°31 | 24°23 | 12°44 | 28°57 | 3°28 | 20°10  | 19° 0 | 16° 3 | n.a. |
| S13 | 3 10 56 | 17°13'27 | 9♁57  | 26°46 | 16°50  | 3°40  | 15°43 | 24°25 | 12°48 | 28°58 | 3°30 | 20°11  | 18°57 | 16°10 | n.a. |
| S14 | 3 14 52 | 18°14'38 | 24°19 | 28°20 | 16°56  | 3°36  | 15°55 | 24°28 | 12°52 | 28°59 | 3°31 | 20°12  | 18°54 | 16°17 | n.a. |
| M15 | 3 18 49 | 19°15'50 | 8♁58  | 29°54 | 17° 5  | 3°32  | 16° 7 | 24°31 | 12°56 | 29° 0 | 3°32 | 20°14  | 18°50 | 16°23 | n.a. |
| T16 | 3 22 45 | 20°17'02 | 23°52 | 1♁28  | 17°15  | 3°26  | 16°19 | 24°33 | 12°59 | 29° 0 | 3°34 | 20°R14 | 18°47 | 16°30 | n.a. |
| W17 | 3 26 42 | 21°18'15 | 8♁51  | 3° 2  | 17°28  | 3°20  | 16°32 | 24°36 | 13° 3 | 29° 1 | 3°35 | 20°13  | 18°44 | 16°37 | n.a. |
| T18 | 3 30 39 | 22°19'29 | 23°49 | 4°36  | 17°43  | 3°13  | 16°43 | 24°38 | 13° 7 | 29° 2 | 3°37 | 20°10  | 18°41 | 16°43 | n.a. |
| F19 | 3 34 35 | 23°20'43 | 8♁37  | 6°10  | 18° 0  | 3° 5  | 16°55 | 24°40 | 13°10 | 29° 2 | 3°38 | 20° 6  | 18°38 | 16°50 | n.a. |
| S20 | 3 38 32 | 24°21'58 | 23° 7 | 7°43  | 18°19  | 2°56  | 17° 7 | 24°42 | 13°14 | 29° 3 | 3°40 | 20° 0  | 18°35 | 16°56 | n.a. |
| S21 | 3 42 28 | 25°23'13 | 7♁12  | 9°17  | 18°40  | 2°46  | 17°19 | 24°44 | 13°17 | 29° 3 | 3°41 | 19°55  | 18°31 | 17° 3 | n.a. |
| M22 | 3 46 25 | 26°24'28 | 20°50 | 10°49 | 19° 2  | 2°35  | 17°31 | 24°46 | 13°21 | 29° 4 | 3°43 | 19°49  | 18°28 | 17°10 | n.a. |
| T23 | 3 50 21 | 27°25'44 | 4♁ 1  | 12°22 | 19°27  | 2°24  | 17°42 | 24°48 | 13°25 | 29° 4 | 3°45 | 19°45  | 18°25 | 17°16 | n.a. |
| W24 | 3 54 18 | 28°26'59 | 16°46 | 13°54 | 19°53  | 2°12  | 17°54 | 24°50 | 13°28 | 29° 4 | 3°46 | 19°43  | 18°22 | 17°23 | n.a. |
| T25 | 3 58 14 | 29°28'14 | 29°10 | 15°25 | 20°21  | 1°59  | 18° 6 | 24°51 | 13°32 | 29° 5 | 3°48 | 19°D42 | 18°19 | 17°30 | n.a. |
| F26 | 4 2 11  | 0♁29'29  | 11♁16 | 16°55 | 20°51  | 1°45  | 18°17 | 24°53 | 13°35 | 29° 5 | 3°50 | 19°43  | 18°16 | 17°36 | n.a. |
| S27 | 4 6 8   | 1°30'44  | 23°11 | 18°24 | 21°23  | 1°31  | 18°28 | 24°54 | 13°39 | 29° 5 | 3°51 | 19°44  | 18°12 | 17°43 | n.a. |
| S28 | 4 10 4  | 2°31'59  | 4♃59  | 19°52 | 21°55  | 1°16  | 18°40 | 24°55 | 13°43 | 29° 6 | 3°53 | 19°46  | 18° 9 | 17°50 | n.a. |
| M29 | 4 14 1  | 3°33'14  | 16°46 | 21°18 | 22°30  | 1° 0  | 18°51 | 24°56 | 13°46 | 29° 6 | 3°55 | 19°R47 | 18° 6 | 17°56 | n.a. |
| T30 | 4 17 57 | 4♁34'29  | 28♃35 | 22♁42 | 23♁ 5  | 0♁43  | 19♁ 2 | 24♁57 | 13♁50 | 29♁ 6 | 3♁56 | 19♁46  | 18♁ 3 | 18♃ 3 | n.a. |

Delta T = 03h31m30s Julian Calendar 1 Nov. 202 BCE == Greg. Calendar 28 Oct. 202 BCE  
 The year -201 astronomical counting style corresponds to year 202 B.C.E historical counting style.

DECEMBER 202 BCE (-201) JC

00:00 UT

| Day | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃     | ♄     | ♅      | ♆     | ♇      | ♁    | ♂      | ♁     | ♃     | ♄    |
|-----|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|------|--------|-------|-------|------|
| W 1 | 4 21 54 | 5♁35'44  | 10♁30 | 24♁ 4 | 23♁42 | 0°R25 | 19♁13 | 24♁58  | 13♁53 | 29♁ 6  | 3♁58 | 19°R44 | 18♁ 0 | 18♃10 | n.a. |
| T 2 | 4 25 50 | 6°36'58  | 22°34 | 25°23 | 24°21 | 0♁ 7  | 19°24 | 24°59  | 13°57 | 29° 6  | 4° 0 | 19♁39  | 17°56 | 18°16 | n.a. |
| F 3 | 4 29 47 | 7°38'13  | 4♁49  | 26°39 | 25° 1 | 29♁49 | 19°35 | 25° 0  | 14° 0 | 29° 6  | 4° 1 | 19°32  | 17°53 | 18°23 | n.a. |
| S 4 | 4 33 43 | 8°39'27  | 17°17 | 27°51 | 25°41 | 29°29 | 19°46 | 25° 0  | 14° 4 | 29° 6  | 4° 3 | 19°24  | 17°50 | 18°29 | n.a. |
| S 5 | 4 37 40 | 9°40'41  | 29°56 | 28°59 | 26°23 | 29° 9 | 19°56 | 25° 1  | 14° 7 | 29°R 7 | 4° 5 | 19°14  | 17°47 | 18°36 | n.a. |
| M 6 | 4 41 37 | 10°41'56 | 12♁49 | 0♁ 1  | 27° 7 | 28°49 | 20° 7 | 25° 1  | 14°10 | 29° 6  | 4° 7 | 19° 4  | 17°44 | 18°43 | n.a. |
| T 7 | 4 45 33 | 11°43'10 | 25°53 | 0°57  | 27°51 | 28°28 | 20°17 | 25° 2  | 14°14 | 29° 6  | 4° 8 | 18°56  | 17°41 | 18°49 | n.a. |
| W 8 | 4 49 30 | 12°44'24 | 9♁ 9  | 1°47  | 28°36 | 28° 6 | 20°28 | 25° 2  | 14°17 | 29° 6  | 4°10 | 18°49  | 17°37 | 18°56 | n.a. |
| T 9 | 4 53 26 | 13°45'38 | 22°38 | 2°29  | 29°22 | 27°44 | 20°38 | 25°R 2 | 14°21 | 29° 6  | 4°12 | 18°44  | 17°34 | 19° 3 | n.a. |
| F10 | 4 57 23 | 14°46'52 | 6♁18  | 3° 2  | 0♁10  | 27°22 | 20°49 | 25° 2  | 14°24 | 29° 6  | 4°14 | 18°42  | 17°31 | 19° 9 | n.a. |
| S11 | 5 1 19  | 15°48'06 | 20°11 | 3°26  | 0°58  | 26°59 | 20°59 | 25° 2  | 14°27 | 29° 6  | 4°16 | 18°D42 | 17°28 | 19°16 | n.a. |
| S12 | 5 5 16  | 16°49'19 | 4♁16  | 3°40  | 1°47  | 26°36 | 21° 9 | 25° 1  | 14°30 | 29° 6  | 4°18 | 18°43  | 17°25 | 19°23 | n.a. |
| M13 | 5 9 12  | 17°50'33 | 18°34 | 3°R42 | 2°36  | 26°13 | 21°19 | 25° 1  | 14°34 | 29° 5  | 4°19 | 18°R43 | 17°22 | 19°29 | n.a. |
| T14 | 5 13 9  | 18°51'47 | 3♁ 2  | 3°33  | 3°27  | 25°49 | 21°29 | 25° 0  | 14°37 | 29° 5  | 4°21 | 18°42  | 17°18 | 19°36 | n.a. |
| W15 | 5 17 6  | 19°53'00 | 17°36 | 3°13  | 4°19  | 25°25 | 21°38 | 25° 0  | 14°40 | 29° 5  | 4°23 | 18°39  | 17°15 | 19°43 | n.a. |
| T16 | 5 21 2  | 20°54'13 | 2♁11  | 2°40  | 5°11  | 25° 1 | 21°48 | 24°59  | 14°43 | 29° 4  | 4°25 | 18°33  | 17°12 | 19°49 | n.a. |
| F17 | 5 24 59 | 21°55'25 | 16°42 | 1°57  | 6° 4  | 24°37 | 21°57 | 24°58  | 14°46 | 29° 4  | 4°27 | 18°24  | 17° 9 | 19°56 | n.a. |
| S18 | 5 28 55 | 22°56'37 | 1♁ 0  | 1° 3  | 6°57  | 24°13 | 22° 7 | 24°57  | 14°50 | 29° 4  | 4°29 | 18°14  | 17° 6 | 20° 3 | n.a. |
| S19 | 5 32 52 | 23°57'48 | 15° 0 | 0° 0  | 7°51  | 23°49 | 22°16 | 24°56  | 14°53 | 29° 3  | 4°31 | 18° 3  | 17° 2 | 20° 9 | n.a. |
| M20 | 5 36 48 | 24°58'58 | 28°38 | 28♁51 | 8°46  | 23°25 | 22°25 | 24°55  | 14°56 | 29° 3  | 4°32 | 17°52  | 16°59 | 20°16 | n.a. |
| T21 | 5 40 45 | 26° 0'07 | 11♁51 | 27°36 | 9°42  | 23° 1 | 22°35 | 24°54  | 14°59 | 29° 2  | 4°34 | 17°42  | 16°56 | 20°22 | n.a. |
| W22 | 5 44 41 | 27° 1'15 | 24°40 | 26°19 | 10°38 | 22°37 | 22°43 | 24°53  | 15° 2 | 29° 2  | 4°36 | 17°35  | 16°53 | 20°29 | n.a. |
| T23 | 5 48 38 | 28° 2'22 | 7♁ 6  | 25° 2 | 11°34 | 22°13 | 22°52 | 24°51  | 15° 5 | 29° 1  | 4°38 | 17°31  | 16°50 | 20°36 | n.a. |
| F24 | 5 52 35 | 29° 3'28 | 19°15 | 23°47 | 12°31 | 21°50 | 23° 1 | 24°50  | 15° 8 | 29° 0  | 4°40 | 17°28  | 16°47 | 20°42 | n.a. |
| S25 | 5 56 31 | 0♁ 4'33  | 1♃11  | 22°36 | 13°29 | 21°27 | 23°10 | 24°48  | 15°10 | 29° 0  | 4°42 | 17°D28 | 16°43 | 20°49 | n.a. |
| S26 | 6 0 28  | 1° 5'36  | 13° 0 | 21°31 | 14°27 | 21° 4 | 23°18 | 24°46  | 15°13 | 28°59  | 4°44 | 17°R28 | 16°40 | 20°56 | n.a. |
| M27 | 6 4 24  | 2° 6'39  | 24°47 | 20°33 | 15°25 | 20°42 | 23°26 | 24°44  | 15°16 | 28°58  | 4°46 | 17°28  | 16°37 | 21° 2 | n.a. |
| T28 | 6 8 21  | 3° 7'40  | 6♁38  | 19°43 | 16°25 | 20°20 | 23°35 | 24°42  | 15°19 | 28°58  | 4°48 | 17°26  | 16°34 | 21° 9 | n.a. |
| W29 | 6 12 17 | 4° 8'40  | 18°37 | 19° 2 | 17°24 | 19°58 | 23°43 | 24°40  | 15°22 | 28°57  | 4°50 | 17°22  | 16°31 | 21°16 | n.a. |
| T30 | 6 16 14 | 5° 9'38  | 0♁48  | 18°30 | 18°24 | 19°37 | 23°51 | 24°38  | 15°24 | 28°56  | 4°51 | 17°16  | 16°28 | 21°22 | n.a. |
| F31 | 6 20 10 | 6♁10'35  | 13♁15 | 18♁ 6 | 19♁24 | 19♁16 | 23♁59 | 24♁36  | 15♁27 | 28♁55  | 4♁53 | 17♁ 6  | 16♁24 | 21♃29 | n.a. |

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