

SWISS EPHEMERIS for the year 2160 BCE

JANUARY 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄    | ♅      | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|-------|-------|------|--------|--------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| M 1  | 5 28 35 | 24♌14'40 | 22♋38 | 29♍3  | 28♄45 | 23♍36 | 3°R48 | 6♁4  | 12°R 2 | 12°R25 | 28♌29 | 17°D 1 | 18♋26 | 7♍55  | n.a. |   |   |   |   |   |   |   |   |
| T 2  | 5 32 32 | 25°15'09 | 6♎26  | 0♌17  | 29°58 | 24°22 | 3♎44  | 6°12 | 12♐0   | 12♐25  | 28°31 | 17♋2   | 18°22 | 8°1   | n.a. |   |   |   |   |   |   |   |   |
| W 3  | 5 36 28 | 26°15'35 | 19°47 | 1°33  | 1♌11  | 25°8  | 3°39  | 6°19 | 11°57  | 12°25  | 28°33 | 17°3   | 18°19 | 8°8   | n.a. |   |   |   |   |   |   |   |   |
| T 4  | 5 40 25 | 27°16'00 | 2♍44  | 2°51  | 2°23  | 25°55 | 3°34  | 6°27 | 11°55  | 12°25  | 28°35 | 17°5   | 18°16 | 8°15  | n.a. |   |   |   |   |   |   |   |   |
| F 5  | 5 44 21 | 28°16'23 | 15°19 | 4°9   | 3°35  | 26°41 | 3°29  | 6°34 | 11°52  | 12°25  | 28°36 | 17°6   | 18°13 | 8°22  | n.a. |   |   |   |   |   |   |   |   |
| S 6  | 5 48 18 | 29°16'45 | 27°37 | 5°30  | 4°48  | 27°27 | 3°24  | 6°41 | 11°50  | 12°25  | 28°38 | 17°R 7 | 18°10 | 8°28  | n.a. |   |   |   |   |   |   |   |   |
| S 7  | 5 52 14 | 0♌17'05  | 9♌41  | 6°51  | 6°0   | 28°13 | 3°18  | 6°49 | 11°47  | 12°25  | 28°40 | 17°6   | 18°7  | 8°35  | n.a. |   |   |   |   |   |   |   |   |
| M 8  | 5 56 11 | 1°17'23  | 21°36 | 8°14  | 7°12  | 29°0  | 3°13  | 6°56 | 11°45  | 12°24  | 28°42 | 17°5   | 18°3  | 8°42  | n.a. |   |   |   |   |   |   |   |   |
| T 9  | 6 0 8   | 2°17'39  | 3♍28  | 9°38  | 8°24  | 29°46 | 3°7   | 7°4  | 11°42  | 12°24  | 28°43 | 17°3   | 18°0  | 8°48  | n.a. |   |   |   |   |   |   |   |   |
| W10  | 6 4 4   | 3°17'54  | 15°19 | 11°3  | 9°36  | 0♌32  | 3°1   | 7°11 | 11°40  | 12°24  | 28°45 | 17°1   | 17°57 | 8°55  | n.a. |   |   |   |   |   |   |   |   |
| T 11 | 6 8 1   | 4°18'07  | 27°14 | 12°30 | 10°48 | 1°18  | 2°56  | 7°19 | 11°37  | 12°24  | 28°47 | 16°59  | 17°54 | 9°2   | n.a. |   |   |   |   |   |   |   |   |
| F 12 | 6 11 57 | 5°18'18  | 9♌16  | 13°58 | 12°0  | 2°5   | 2°49  | 7°26 | 11°35  | 12°23  | 28°49 | 16°57  | 17°51 | 9°9   | n.a. |   |   |   |   |   |   |   |   |
| S 13 | 6 15 54 | 6°18'28  | 21°27 | 15°27 | 13°12 | 2°51  | 2°43  | 7°34 | 11°33  | 12°23  | 28°50 | 16°56  | 17°48 | 9°15  | n.a. |   |   |   |   |   |   |   |   |
| S 14 | 6 19 50 | 7°18'35  | 3♋48  | 16°57 | 14°24 | 3°37  | 2°37  | 7°41 | 11°31  | 12°22  | 28°52 | 16°55  | 17°44 | 9°22  | n.a. |   |   |   |   |   |   |   |   |
| M15  | 6 23 47 | 8°18'40  | 16°22 | 18°28 | 15°35 | 4°24  | 2°31  | 7°48 | 11°28  | 12°22  | 28°54 | 16°D55 | 17°41 | 9°29  | n.a. |   |   |   |   |   |   |   |   |
| T 16 | 6 27 43 | 9°18'44  | 29°8  | 20°0  | 16°47 | 5°10  | 2°24  | 7°56 | 11°26  | 12°21  | 28°55 | 16°55  | 17°38 | 9°35  | n.a. |   |   |   |   |   |   |   |   |
| W17  | 6 31 40 | 10°18'45 | 12♌7  | 21°33 | 17°58 | 5°57  | 2°17  | 8°3  | 11°24  | 12°21  | 28°57 | 16°56  | 17°35 | 9°42  | n.a. |   |   |   |   |   |   |   |   |
| T 18 | 6 35 37 | 11°18'43 | 25°20 | 23°8  | 19°10 | 6°43  | 2°11  | 8°11 | 11°22  | 12°20  | 28°59 | 16°56  | 17°32 | 9°49  | n.a. |   |   |   |   |   |   |   |   |
| F 19 | 6 39 33 | 12°18'39 | 8♌46  | 24°44 | 20°21 | 7°29  | 2°4   | 8°18 | 11°19  | 12°20  | 29°1  | 16°57  | 17°28 | 9°56  | n.a. |   |   |   |   |   |   |   |   |
| S 20 | 6 43 30 | 13°18'33 | 22°25 | 26°20 | 21°32 | 8°16  | 1°57  | 8°26 | 11°17  | 12°19  | 29°2  | 16°57  | 17°25 | 10°2  | n.a. |   |   |   |   |   |   |   |   |
| S 21 | 6 47 26 | 14°18'25 | 6♍18  | 27°58 | 22°43 | 9°2   | 1°50  | 8°33 | 11°15  | 12°18  | 29°4  | 16°57  | 17°22 | 10°9  | n.a. |   |   |   |   |   |   |   |   |
| M22  | 6 51 23 | 15°18'14 | 20°23 | 29°37 | 23°54 | 9°48  | 1°43  | 8°41 | 11°13  | 12°18  | 29°6  | 16°R57 | 17°19 | 10°16 | n.a. |   |   |   |   |   |   |   |   |
| T 23 | 6 55 19 | 16°18'00 | 4♋38  | 1♌17  | 25°5  | 10°35 | 1°35  | 8°48 | 11°11  | 12°17  | 29°7  | 16°57  | 17°16 | 10°22 | n.a. |   |   |   |   |   |   |   |   |
| W24  | 6 59 16 | 17°17'44 | 19°2  | 2°58  | 26°15 | 11°21 | 1°28  | 8°55 | 11°9   | 12°16  | 29°9  | 16°D57 | 17°13 | 10°29 | n.a. |   |   |   |   |   |   |   |   |
| T 25 | 7 3 12  | 18°17'26 | 3♐30  | 4°41  | 27°26 | 12°8  | 1°21  | 9°3  | 11°7   | 12°16  | 29°11 | 16°57  | 17°9  | 10°36 | n.a. |   |   |   |   |   |   |   |   |
| F 26 | 7 7 9   | 19°17'05 | 17°59 | 6°24  | 28°36 | 12°54 | 1°13  | 9°10 | 11°5   | 12°15  | 29°12 | 16°58  | 17°6  | 10°43 | n.a. |   |   |   |   |   |   |   |   |
| S 27 | 7 11 6  | 20°16'42 | 2♌22  | 8°9   | 29°47 | 13°41 | 1°6   | 9°18 | 11°3   | 12°14  | 29°14 | 16°58  | 17°3  | 10°49 | n.a. |   |   |   |   |   |   |   |   |
| S 28 | 7 15 2  | 21°16'17 | 16°35 | 9°55  | 0♌57  | 14°27 | 0°58  | 9°25 | 11°2   | 12°13  | 29°16 | 16°R58 | 17°0  | 10°56 | n.a. |   |   |   |   |   |   |   |   |
| M29  | 7 18 59 | 22°15'50 | 0♎33  | 11°42 | 2°7   | 15°13 | 0°51  | 9°32 | 11°0   | 12°12  | 29°17 | 16°58  | 16°57 | 11°3  | n.a. |   |   |   |   |   |   |   |   |
| T 30 | 7 22 55 | 23°15'20 | 14°13 | 13°31 | 3°17  | 16°0  | 0°43  | 9°40 | 10°58  | 12°11  | 29°19 | 16°57  | 16°54 | 11°9  | n.a. |   |   |   |   |   |   |   |   |
| W31  | 7 26 52 | 24♋14'48 | 27♎33 | 15♋20 | 4♌27  | 16♌46 | 0♎36  | 9♁47 | 10♐56  | 12♐10  | 29♌20 | 16♋57  | 16♋50 | 11♍16 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 14h37m26s Julian Calendar 1 Jan. 2160 BCE == Greg. Calendar 14 Dec. 2161 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

FEBRUARY 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂     | ♃     | ♄     | ♅      | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|---------|----------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| T 1  | 7 30 48 | 25♋14'14 | 10♍31 | 17♋11 | 5♌36  | 17♌33 | 0°R28 | 9♁54  | 10°R55 | 12°R 9 | 29♌22 | 16°R55 | 16♋47 | 11♍23 | n.a. |   |   |   |   |   |   |   |   |
| F 2  | 7 34 45 | 26°13'37 | 23°9  | 19°3  | 6°46  | 18°19 | 0♎20  | 10°2  | 10♐53  | 12♐8   | 29°24 | 16♋54  | 16°44 | 11°30 | n.a. |   |   |   |   |   |   |   |   |
| S 3  | 7 38 41 | 27°12'59 | 5♌31  | 20°57 | 7°55  | 19°5  | 0°12  | 10°9  | 10°52  | 12°7   | 29°25 | 16°53  | 16°41 | 11°36 | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 7 42 38 | 28°12'19 | 17°38 | 22°51 | 9°4   | 19°52 | 0°5   | 10°16 | 10°50  | 12°6   | 29°27 | 16°53  | 16°38 | 11°43 | n.a. |   |   |   |   |   |   |   |   |
| M 5  | 7 46 35 | 29°11'37 | 29°35 | 24°47 | 10°14 | 20°38 | 29♋57 | 10°23 | 10°48  | 12°5   | 29°28 | 16°D52 | 16°34 | 11°50 | n.a. |   |   |   |   |   |   |   |   |
| T 6  | 7 50 31 | 0♌10'53  | 11♍28 | 26°44 | 11°22 | 21°25 | 29°49 | 10°31 | 10°47  | 12°4   | 29°30 | 16°53  | 16°31 | 11°56 | n.a. |   |   |   |   |   |   |   |   |
| W 7  | 7 54 28 | 1°10'07  | 23°20 | 28°42 | 12°31 | 22°11 | 29°41 | 10°38 | 10°46  | 12°3   | 29°31 | 16°53  | 16°28 | 12°3  | n.a. |   |   |   |   |   |   |   |   |
| T 8  | 7 58 24 | 2°9'19   | 5♌17  | 0♌41  | 13°40 | 22°58 | 29°34 | 10°45 | 10°44  | 12°2   | 29°33 | 16°55  | 16°25 | 12°10 | n.a. |   |   |   |   |   |   |   |   |
| F 9  | 8 2 21  | 3°8'30   | 17°22 | 2°42  | 14°48 | 23°44 | 29°26 | 10°52 | 10°43  | 12°1   | 29°34 | 16°56  | 16°22 | 12°17 | n.a. |   |   |   |   |   |   |   |   |
| S 10 | 8 6 17  | 4°7'38   | 29°39 | 4°43  | 15°57 | 24°30 | 29°18 | 10°59 | 10°42  | 12°0   | 29°36 | 16°57  | 16°19 | 12°23 | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 8 10 14 | 5°6'44   | 12♋11 | 6°45  | 17°5  | 25°17 | 29°10 | 11°6  | 10°40  | 11°59  | 29°37 | 16°R58 | 16°15 | 12°30 | n.a. |   |   |   |   |   |   |   |   |
| M12  | 8 14 10 | 6°5'48   | 25°1  | 8°47  | 18°13 | 26°3  | 29°3  | 11°13 | 10°39  | 11°57  | 29°39 | 16°58  | 16°12 | 12°37 | n.a. |   |   |   |   |   |   |   |   |
| T 13 | 8 18 7  | 7°4'49   | 8♌8   | 10°51 | 19°21 | 26°49 | 28°55 | 11°20 | 10°38  | 11°56  | 29°40 | 16°57  | 16°9  | 12°43 | n.a. |   |   |   |   |   |   |   |   |
| W14  | 8 22 4  | 8°3'49   | 21°31 | 12°54 | 20°28 | 27°36 | 28°47 | 11°27 | 10°37  | 11°55  | 29°42 | 16°55  | 16°6  | 12°50 | n.a. |   |   |   |   |   |   |   |   |
| T 15 | 8 26 0  | 9°2'46   | 5♌11  | 14°58 | 21°36 | 28°22 | 28°40 | 11°34 | 10°36  | 11°53  | 29°43 | 16°52  | 16°3  | 12°57 | n.a. |   |   |   |   |   |   |   |   |
| F 16 | 8 29 57 | 10°1'41  | 19°3  | 17°1  | 22°43 | 29°8  | 28°32 | 11°41 | 10°35  | 11°52  | 29°45 | 16°48  | 16°0  | 13°4  | n.a. |   |   |   |   |   |   |   |   |
| S 17 | 8 33 53 | 11°0'33  | 3♍4   | 19°4  | 23°50 | 29°55 | 28°25 | 11°48 | 10°34  | 11°51  | 29°46 | 16°45  | 15°56 | 13°10 | n.a. |   |   |   |   |   |   |   |   |
| S 18 | 8 37 50 | 11°59'23 | 17°12 | 21°6  | 24°57 | 0♋41  | 28°18 | 11°55 | 10°33  | 11°50  | 29°47 | 16°43  | 15°53 | 13°17 | n.a. |   |   |   |   |   |   |   |   |
| M19  | 8 41 46 | 12°58'11 | 1♋24  | 23°8  | 26°4  | 1°27  | 28°10 | 12°1  | 10°33  | 11°48  | 29°49 | 16°41  | 15°50 | 13°24 | n.a. |   |   |   |   |   |   |   |   |
| T 20 | 8 45 43 | 13°56'56 | 15°36 | 25°7  | 27°10 | 2°14  | 28°3  | 12°8  | 10°32  | 11°47  | 29°50 | 16°D40 | 15°47 | 13°30 | n.a. |   |   |   |   |   |   |   |   |
| W21  | 8 49 39 | 14°55'39 | 29°47 | 27°5  | 28°16 | 3°0   | 27°56 | 12°15 | 10°31  | 11°45  | 29°51 | 16°41  | 15°44 | 13°37 | n.a. |   |   |   |   |   |   |   |   |
| T 22 | 8 53 36 | 15°54'19 | 13♐54 | 29°1  | 29°22 | 3°46  | 27°49 | 12°22 | 10°30  | 11°44  | 29°53 | 16°42  | 15°40 | 13°44 | n.a. |   |   |   |   |   |   |   |   |
| F 23 | 8 57 33 | 16°52'57 | 27°56 | 0♌54  | 0♌28  | 4°32  | 27°42 | 12°28 | 10°30  | 11°43  | 29°54 | 16°44  | 15°37 | 13°50 | n.a. |   |   |   |   |   |   |   |   |
| S 24 | 9 1 29  | 17°51'33 | 11♋51 | 2°45  | 1°34  | 5°18  | 27°35 | 12°35 | 10°29  | 11°41  | 29°55 | 16°R45 | 15°34 | 13°57 | n.a. |   |   |   |   |   |   |   |   |
| S 25 | 9 5 26  | 18°50'06 | 25°36 | 4°32  | 2°39  | 6°5   | 27°28 | 12°41 | 10°29  | 11°40  | 29°56 | 16°45  | 15°31 | 14°4  | n.a. |   |   |   |   |   |   |   |   |
| M26  | 9 9 22  | 19°48'37 | 9♎11  | 6°16  | 3°44  | 6°51  | 27°21 | 12°48 | 10°28  | 11°38  | 29°58 | 16°43  | 15°28 | 14°11 | n.a. |   |   |   |   |   |   |   |   |
| T 27 | 9 13 19 | 20°47'06 | 22°32 | 7°56  | 4°49  | 7°37  | 27°15 | 12°54 | 10°28  | 11°37  | 29°59 | 16°39  | 15°25 | 14°17 | n.a. |   |   |   |   |   |   |   |   |
| W28  | 9 17 15 | 21°45'32 | 5♍38  | 9♌32  | 5♍54  | 8♋23  | 27♋8  | 13♋1  | 10♐27  | 11♐35  | 0♋0   | 16♋35  | 15♋21 | 14♍24 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 14h37m23s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [6.2.2007]

SWISS EPHEMERIS for the year 2160 BCE

MARCH 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                   | ♀                   | ♁                  | ♂                  | ♃                   | ♄                   | ♅                   | ♆                   | ♇                 | ♈                   | ♉                   | ♊                   | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|------|----------|------------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|-------------------|---------------------|---------------------|---------------------|------|---|---|---|---|---|---|---|---|
| T 1  | 9 21 12  | 22 <sup>43</sup> 43'57 | 18 <sup>17</sup> 28 | 11 <sup>11</sup> 4  | 6 <sup>17</sup> 58 | 9 <sup>23</sup> 9  | 27 <sup>0</sup> R 2 | 13 <sup>33</sup> 7  | 10 <sup>0</sup> R27 | 11 <sup>0</sup> R34 | 0 <sup>23</sup> 1 | 16 <sup>0</sup> R29 | 15 <sup>33</sup> 18 | 14 <sup>11</sup> 31 | n.a. |   |   |   |   |   |   |   |   |
| F 2  | 9 25 8   | 23 <sup>42</sup> 19    | 1 <sup>12</sup> 3   | 12 <sup>31</sup>    | 8 <sup>2</sup>     | 9 <sup>55</sup>    | 26 <sup>55</sup> 55 | 13 <sup>13</sup>    | 10 <sup>11</sup> 27 | 11 <sup>11</sup> 32 | 0 <sup>2</sup>    | 16 <sup>22</sup>    | 15 <sup>15</sup>    | 14 <sup>37</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 3  | 9 29 5   | 24 <sup>40</sup> 40    | 13 <sup>22</sup>    | 13 <sup>53</sup>    | 9 <sup>6</sup>     | 10 <sup>41</sup>   | 26 <sup>49</sup>    | 13 <sup>20</sup>    | 10 <sup>27</sup>    | 11 <sup>31</sup>    | 0 <sup>4</sup>    | 16 <sup>16</sup>    | 15 <sup>12</sup>    | 14 <sup>44</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 4  | 9 33 2   | 25 <sup>38</sup> 59    | 25 <sup>29</sup>    | 15 <sup>11</sup>    | 10 <sup>9</sup>    | 11 <sup>27</sup>   | 26 <sup>43</sup>    | 13 <sup>26</sup>    | 10 <sup>27</sup>    | 11 <sup>29</sup>    | 0 <sup>5</sup>    | 16 <sup>11</sup>    | 15 <sup>9</sup>     | 14 <sup>51</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M 5  | 9 36 58  | 26 <sup>37</sup> 16    | 7 <sup>11</sup> 27  | 16 <sup>24</sup>    | 11 <sup>12</sup>   | 12 <sup>13</sup>   | 26 <sup>37</sup>    | 13 <sup>32</sup>    | 10 <sup>27</sup>    | 11 <sup>28</sup>    | 0 <sup>6</sup>    | 16 <sup>7</sup>     | 15 <sup>6</sup>     | 14 <sup>58</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T 6  | 9 40 55  | 27 <sup>35</sup> 32    | 19 <sup>20</sup>    | 17 <sup>31</sup>    | 12 <sup>15</sup>   | 12 <sup>59</sup>   | 26 <sup>31</sup>    | 13 <sup>38</sup>    | 10 <sup>27</sup>    | 11 <sup>26</sup>    | 0 <sup>7</sup>    | 16 <sup>5</sup>     | 15 <sup>2</sup>     | 15 <sup>4</sup>     | n.a. |   |   |   |   |   |   |   |   |
| W 7  | 9 44 51  | 28 <sup>33</sup> 46    | 1 <sup>17</sup> 12  | 18 <sup>34</sup>    | 13 <sup>18</sup>   | 13 <sup>45</sup>   | 26 <sup>26</sup>    | 13 <sup>44</sup>    | 10 <sup>27</sup>    | 11 <sup>24</sup>    | 0 <sup>8</sup>    | 16 <sup>D</sup> 5   | 14 <sup>59</sup>    | 15 <sup>11</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T 8  | 9 48 48  | 29 <sup>31</sup> 58    | 13 <sup>8</sup>     | 19 <sup>31</sup>    | 14 <sup>20</sup>   | 14 <sup>31</sup>   | 26 <sup>20</sup>    | 13 <sup>50</sup>    | 10 <sup>27</sup>    | 11 <sup>23</sup>    | 0 <sup>9</sup>    | 16 <sup>6</sup>     | 14 <sup>56</sup>    | 15 <sup>18</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F 9  | 9 52 44  | 0 <sup>11</sup> 30'09  | 25 <sup>14</sup>    | 20 <sup>22</sup>    | 15 <sup>22</sup>   | 15 <sup>17</sup>   | 26 <sup>15</sup>    | 13 <sup>56</sup>    | 10 <sup>27</sup>    | 11 <sup>21</sup>    | 0 <sup>10</sup>   | 16 <sup>7</sup>     | 14 <sup>53</sup>    | 15 <sup>24</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 10 | 9 56 41  | 1 <sup>28</sup> 18     | 7 <sup>33</sup> 4   | 21 <sup>9</sup>     | 16 <sup>24</sup>   | 16 <sup>3</sup>    | 26 <sup>9</sup>     | 14 <sup>2</sup>     | 10 <sup>27</sup>    | 11 <sup>20</sup>    | 0 <sup>11</sup>   | 16 <sup>8</sup>     | 14 <sup>50</sup>    | 15 <sup>31</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 11 | 10 0 37  | 2 <sup>26</sup> 25     | 20 <sup>12</sup>    | 21 <sup>49</sup>    | 17 <sup>25</sup>   | 16 <sup>49</sup>   | 26 <sup>4</sup>     | 14 <sup>8</sup>     | 10 <sup>27</sup>    | 11 <sup>18</sup>    | 0 <sup>12</sup>   | 16 <sup>R</sup> 8   | 14 <sup>46</sup>    | 15 <sup>38</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M12  | 10 4 34  | 3 <sup>24</sup> 30     | 3 <sup>12</sup> 22  | 22 <sup>25</sup>    | 18 <sup>26</sup>   | 17 <sup>34</sup>   | 25 <sup>59</sup>    | 14 <sup>13</sup>    | 10 <sup>27</sup>    | 11 <sup>16</sup>    | 0 <sup>13</sup>   | 16 <sup>7</sup>     | 14 <sup>43</sup>    | 15 <sup>44</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T13  | 10 8 31  | 4 <sup>22</sup> 34     | 16 <sup>34</sup>    | 22 <sup>54</sup>    | 19 <sup>27</sup>   | 18 <sup>20</sup>   | 25 <sup>55</sup>    | 14 <sup>19</sup>    | 10 <sup>28</sup>    | 11 <sup>15</sup>    | 0 <sup>14</sup>   | 16 <sup>4</sup>     | 14 <sup>40</sup>    | 15 <sup>51</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W14  | 10 12 27 | 5 <sup>20</sup> 36     | 0 <sup>11</sup> 19  | 23 <sup>18</sup>    | 20 <sup>27</sup>   | 19 <sup>6</sup>    | 25 <sup>50</sup>    | 14 <sup>25</sup>    | 10 <sup>28</sup>    | 11 <sup>13</sup>    | 0 <sup>15</sup>   | 15 <sup>58</sup>    | 14 <sup>37</sup>    | 15 <sup>58</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T15  | 10 16 24 | 6 <sup>18</sup> 36     | 14 <sup>24</sup>    | 23 <sup>37</sup>    | 21 <sup>27</sup>   | 19 <sup>52</sup>   | 25 <sup>45</sup>    | 14 <sup>30</sup>    | 10 <sup>29</sup>    | 11 <sup>12</sup>    | 0 <sup>16</sup>   | 15 <sup>51</sup>    | 14 <sup>34</sup>    | 16 <sup>5</sup>     | n.a. |   |   |   |   |   |   |   |   |
| F16  | 10 20 20 | 7 <sup>16</sup> 35     | 28 <sup>44</sup>    | 23 <sup>50</sup>    | 22 <sup>26</sup>   | 20 <sup>37</sup>   | 25 <sup>41</sup>    | 14 <sup>36</sup>    | 10 <sup>29</sup>    | 11 <sup>10</sup>    | 0 <sup>16</sup>   | 15 <sup>43</sup>    | 14 <sup>31</sup>    | 16 <sup>11</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S17  | 10 24 17 | 8 <sup>14</sup> 31     | 13 <sup>17</sup> 13 | 23 <sup>57</sup>    | 23 <sup>26</sup>   | 21 <sup>23</sup>   | 25 <sup>37</sup>    | 14 <sup>41</sup>    | 10 <sup>30</sup>    | 11 <sup>8</sup>     | 0 <sup>17</sup>   | 15 <sup>35</sup>    | 14 <sup>27</sup>    | 16 <sup>18</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S18  | 10 28 13 | 9 <sup>12</sup> 26     | 27 <sup>45</sup>    | 24 <sup>R</sup> 0   | 24 <sup>24</sup>   | 22 <sup>8</sup>    | 25 <sup>33</sup>    | 14 <sup>47</sup>    | 10 <sup>30</sup>    | 11 <sup>7</sup>     | 0 <sup>18</sup>   | 15 <sup>28</sup>    | 14 <sup>24</sup>    | 16 <sup>25</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M19  | 10 32 10 | 10 <sup>10</sup> 18    | 12 <sup>18</sup> 14 | 23 <sup>56</sup>    | 25 <sup>23</sup>   | 22 <sup>54</sup>   | 25 <sup>29</sup>    | 14 <sup>52</sup>    | 10 <sup>31</sup>    | 11 <sup>5</sup>     | 0 <sup>19</sup>   | 15 <sup>23</sup>    | 14 <sup>21</sup>    | 16 <sup>31</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T20  | 10 36 6  | 11 <sup>8</sup> 09     | 26 <sup>35</sup>    | 23 <sup>48</sup>    | 26 <sup>20</sup>   | 23 <sup>39</sup>   | 25 <sup>25</sup>    | 14 <sup>57</sup>    | 10 <sup>32</sup>    | 11 <sup>3</sup>     | 0 <sup>20</sup>   | 15 <sup>20</sup>    | 14 <sup>18</sup>    | 16 <sup>38</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W21  | 10 40 3  | 12 <sup>5</sup> 58     | 10 <sup>11</sup> 45 | 23 <sup>36</sup>    | 27 <sup>18</sup>   | 24 <sup>25</sup>   | 25 <sup>22</sup>    | 15 <sup>2</sup>     | 10 <sup>33</sup>    | 11 <sup>2</sup>     | 0 <sup>20</sup>   | 15 <sup>D</sup> 19  | 14 <sup>15</sup>    | 16 <sup>45</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T22  | 10 44 0  | 13 <sup>3</sup> 44     | 24 <sup>43</sup>    | 23 <sup>18</sup>    | 28 <sup>15</sup>   | 25 <sup>10</sup>   | 25 <sup>18</sup>    | 15 <sup>8</sup>     | 10 <sup>33</sup>    | 11 <sup>0</sup>     | 0 <sup>21</sup>   | 15 <sup>19</sup>    | 14 <sup>11</sup>    | 16 <sup>52</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F23  | 10 47 56 | 14 <sup>1</sup> 29     | 8 <sup>28</sup> 28  | 22 <sup>57</sup>    | 29 <sup>11</sup>   | 25 <sup>56</sup>   | 25 <sup>15</sup>    | 15 <sup>13</sup>    | 10 <sup>34</sup>    | 10 <sup>59</sup>    | 0 <sup>22</sup>   | 15 <sup>R</sup> 20  | 14 <sup>8</sup>     | 16 <sup>58</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S24  | 10 51 53 | 14 <sup>59</sup> 12    | 22 <sup>1</sup>     | 22 <sup>32</sup>    | 0 <sup>8</sup> 7   | 26 <sup>41</sup>   | 25 <sup>12</sup>    | 15 <sup>18</sup>    | 10 <sup>35</sup>    | 10 <sup>57</sup>    | 0 <sup>22</sup>   | 15 <sup>20</sup>    | 14 <sup>5</sup>     | 17 <sup>5</sup>     | n.a. |   |   |   |   |   |   |   |   |
| S25  | 10 55 49 | 15 <sup>56</sup> 53    | 5 <sup>12</sup> 23  | 22 <sup>3</sup>     | 1 <sup>2</sup>     | 27 <sup>26</sup>   | 25 <sup>10</sup>    | 15 <sup>22</sup>    | 10 <sup>36</sup>    | 10 <sup>55</sup>    | 0 <sup>23</sup>   | 15 <sup>18</sup>    | 14 <sup>2</sup>     | 17 <sup>12</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M26  | 10 59 46 | 16 <sup>54</sup> 33    | 18 <sup>34</sup>    | 21 <sup>32</sup>    | 1 <sup>57</sup>    | 28 <sup>12</sup>   | 25 <sup>7</sup>     | 15 <sup>27</sup>    | 10 <sup>37</sup>    | 10 <sup>54</sup>    | 0 <sup>24</sup>   | 15 <sup>14</sup>    | 13 <sup>59</sup>    | 17 <sup>18</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T27  | 11 3 42  | 17 <sup>52</sup> 10    | 1 <sup>11</sup> 33  | 20 <sup>59</sup>    | 2 <sup>51</sup>    | 28 <sup>57</sup>   | 25 <sup>4</sup>     | 15 <sup>32</sup>    | 10 <sup>38</sup>    | 10 <sup>52</sup>    | 0 <sup>24</sup>   | 15 <sup>7</sup>     | 13 <sup>56</sup>    | 17 <sup>25</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W28  | 11 7 39  | 18 <sup>49</sup> 46    | 14 <sup>21</sup>    | 20 <sup>24</sup>    | 3 <sup>45</sup>    | 29 <sup>42</sup>   | 25 <sup>2</sup>     | 15 <sup>37</sup>    | 10 <sup>39</sup>    | 10 <sup>51</sup>    | 0 <sup>25</sup>   | 14 <sup>58</sup>    | 13 <sup>52</sup>    | 17 <sup>32</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T29  | 11 11 35 | 19 <sup>47</sup> 21    | 26 <sup>56</sup>    | 19 <sup>49</sup>    | 4 <sup>38</sup>    | 0 <sup>11</sup> 27 | 25 <sup>0</sup>     | 15 <sup>41</sup>    | 10 <sup>41</sup>    | 10 <sup>49</sup>    | 0 <sup>25</sup>   | 14 <sup>47</sup>    | 13 <sup>49</sup>    | 17 <sup>38</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F30  | 11 15 32 | 20 <sup>44</sup> 54    | 9 <sup>12</sup> 20  | 19 <sup>13</sup>    | 5 <sup>30</sup>    | 1 <sup>12</sup>    | 24 <sup>58</sup>    | 15 <sup>46</sup>    | 10 <sup>42</sup>    | 10 <sup>47</sup>    | 0 <sup>26</sup>   | 14 <sup>36</sup>    | 13 <sup>46</sup>    | 17 <sup>45</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S31  | 11 19 29 | 21 <sup>11</sup> 42'25 | 21 <sup>12</sup> 33 | 18 <sup>11</sup> 37 | 6 <sup>18</sup> 22 | 1 <sup>11</sup> 57 | 24 <sup>56</sup> 6  | 15 <sup>33</sup> 50 | 10 <sup>11</sup> 43 | 10 <sup>11</sup> 46 | 0 <sup>26</sup>   | 14 <sup>32</sup> 4  | 13 <sup>33</sup> 43 | 17 <sup>11</sup> 52 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 14h37m21s Julian Calendar 1 March 2160 BCE == Greg. Calendar 11 Feb. 2160 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

APRIL 2160 BCE (-2159) JC

00:00 UT

| Day | Sid.t    | ☉                      | ☽                   | ♀                   | ♁                  | ♂                  | ♃                  | ♄                   | ♅                   | ♆                   | ♇                  | ♈                  | ♉                   | ♊                   | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|------------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|------|---|---|---|---|---|---|---|---|
| S 1 | 11 23 25 | 22 <sup>11</sup> 39'56 | 3 <sup>11</sup> 36  | 18 <sup>R</sup> 2   | 7 <sup>18</sup> 13 | 2 <sup>11</sup> 42 | 24 <sup>R</sup> 55 | 15 <sup>33</sup> 55 | 10 <sup>11</sup> 44 | 10 <sup>0</sup> R44 | 0 <sup>27</sup> 27 | 14 <sup>R</sup> 14 | 13 <sup>33</sup> 40 | 17 <sup>11</sup> 59 | n.a. |   |   |   |   |   |   |   |   |
| M 2 | 11 27 22 | 23 <sup>37</sup> 25    | 15 <sup>32</sup>    | 17 <sup>11</sup> 29 | 8 <sup>4</sup>     | 3 <sup>27</sup>    | 24 <sup>53</sup> 3 | 15 <sup>59</sup>    | 10 <sup>46</sup>    | 10 <sup>11</sup> 43 | 0 <sup>27</sup>    | 14 <sup>3</sup> 6  | 13 <sup>37</sup>    | 18 <sup>5</sup>     | n.a. |   |   |   |   |   |   |   |   |
| T 3 | 11 31 18 | 24 <sup>34</sup> 53    | 27 <sup>23</sup>    | 16 <sup>58</sup>    | 8 <sup>53</sup>    | 4 <sup>12</sup>    | 24 <sup>52</sup>   | 16 <sup>3</sup>     | 10 <sup>47</sup>    | 10 <sup>41</sup>    | 0 <sup>28</sup>    | 14 <sup>0</sup>    | 13 <sup>33</sup>    | 18 <sup>12</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W 4 | 11 35 15 | 25 <sup>32</sup> 21    | 9 <sup>17</sup> 13  | 16 <sup>30</sup>    | 9 <sup>42</sup>    | 4 <sup>57</sup>    | 24 <sup>51</sup>   | 16 <sup>7</sup>     | 10 <sup>49</sup>    | 10 <sup>39</sup>    | 0 <sup>28</sup>    | 13 <sup>57</sup>   | 13 <sup>30</sup>    | 18 <sup>19</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T 5 | 11 39 11 | 26 <sup>29</sup> 47    | 2 <sup>1</sup> 8    | 16 <sup>4</sup>     | 10 <sup>31</sup>   | 5 <sup>42</sup>    | 24 <sup>50</sup>   | 16 <sup>11</sup>    | 10 <sup>50</sup>    | 10 <sup>38</sup>    | 0 <sup>28</sup>    | 13 <sup>56</sup>   | 13 <sup>27</sup>    | 18 <sup>25</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F 6 | 11 43 8  | 27 <sup>27</sup> 12    | 3 <sup>11</sup> 24  | 15 <sup>42</sup>    | 11 <sup>18</sup>   | 6 <sup>27</sup>    | 24 <sup>50</sup>   | 16 <sup>15</sup>    | 10 <sup>52</sup>    | 10 <sup>36</sup>    | 0 <sup>29</sup>    | 13 <sup>D</sup> 56 | 13 <sup>24</sup>    | 18 <sup>32</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 7 | 11 47 4  | 28 <sup>24</sup> 36    | 15 <sup>31</sup>    | 15 <sup>24</sup>    | 12 <sup>5</sup>    | 7 <sup>11</sup>    | 24 <sup>49</sup>   | 16 <sup>19</sup>    | 10 <sup>54</sup>    | 10 <sup>35</sup>    | 0 <sup>29</sup>    | 13 <sup>R</sup> 56 | 13 <sup>21</sup>    | 18 <sup>39</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S 8 | 11 51 1  | 29 <sup>22</sup> 00    | 28 <sup>10</sup>    | 15 <sup>10</sup>    | 12 <sup>50</sup>   | 7 <sup>56</sup>    | 24 <sup>49</sup>   | 16 <sup>23</sup>    | 10 <sup>55</sup>    | 10 <sup>33</sup>    | 0 <sup>29</sup>    | 13 <sup>55</sup>   | 13 <sup>17</sup>    | 18 <sup>45</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M 9 | 11 54 58 | 0 <sup>19</sup> 19'22  | 11 <sup>11</sup> 13 | 15 <sup>0</sup>     | 13 <sup>35</sup>   | 8 <sup>41</sup>    | 24 <sup>D</sup> 49 | 16 <sup>27</sup>    | 10 <sup>57</sup>    | 10 <sup>32</sup>    | 0 <sup>30</sup>    | 13 <sup>52</sup>   | 13 <sup>14</sup>    | 18 <sup>52</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T10 | 11 58 54 | 1 <sup>16</sup> 44     | 24 <sup>42</sup>    | 14 <sup>54</sup>    | 14 <sup>19</sup>   | 9 <sup>25</sup>    | 24 <sup>49</sup>   | 16 <sup>30</sup>    | 10 <sup>59</sup>    | 10 <sup>30</sup>    | 0 <sup>30</sup>    | 13 <sup>48</sup>   | 13 <sup>11</sup>    | 18 <sup>59</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W11 | 12 2 51  | 2 <sup>14</sup> 04     | 8 <sup>11</sup> 39  | 14 <sup>D</sup> 52  | 15 <sup>2</sup>    | 10 <sup>10</sup>   | 24 <sup>49</sup>   | 16 <sup>34</sup>    | 11 <sup>1</sup>     | 10 <sup>29</sup>    | 0 <sup>30</sup>    | 13 <sup>40</sup>   | 13 <sup>8</sup>     | 19 <sup>5</sup>     | n.a. |   |   |   |   |   |   |   |   |
| T12 | 12 6 47  | 3 <sup>11</sup> 24     | 23 <sup>1</sup>     | 14 <sup>56</sup>    | 15 <sup>45</sup>   | 10 <sup>54</sup>   | 24 <sup>49</sup>   | 16 <sup>38</sup>    | 11 <sup>2</sup>     | 10 <sup>27</sup>    | 0 <sup>30</sup>    | 13 <sup>30</sup>   | 13 <sup>5</sup>     | 19 <sup>12</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F13 | 12 10 44 | 4 <sup>8</sup> 42      | 7 <sup>17</sup> 42  | 15 <sup>3</sup>     | 16 <sup>26</sup>   | 11 <sup>38</sup>   | 24 <sup>50</sup>   | 16 <sup>41</sup>    | 11 <sup>4</sup>     | 10 <sup>26</sup>    | 0 <sup>31</sup>    | 13 <sup>19</sup>   | 13 <sup>2</sup>     | 19 <sup>19</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S14 | 12 14 40 | 5 <sup>6</sup> 00      | 22 <sup>36</sup>    | 15 <sup>15</sup>    | 17 <sup>6</sup>    | 12 <sup>23</sup>   | 24 <sup>51</sup>   | 16 <sup>44</sup>    | 11 <sup>6</sup>     | 10 <sup>24</sup>    | 0 <sup>31</sup>    | 13 <sup>9</sup>    | 12 <sup>58</sup>    | 19 <sup>26</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S15 | 12 18 37 | 6 <sup>3</sup> 16      | 7 <sup>18</sup> 32  | 15 <sup>32</sup>    | 17 <sup>45</sup>   | 13 <sup>7</sup>    | 24 <sup>52</sup>   | 16 <sup>47</sup>    | 11 <sup>8</sup>     | 10 <sup>23</sup>    | 0 <sup>31</sup>    | 12 <sup>59</sup>   | 12 <sup>55</sup>    | 19 <sup>32</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M16 | 12 22 33 | 7 <sup>0</sup> 32      | 22 <sup>32</sup>    | 15 <sup>53</sup>    | 18 <sup>22</sup>   | 13 <sup>51</sup>   | 24 <sup>53</sup>   | 16 <sup>51</sup>    | 11 <sup>10</sup>    | 10 <sup>21</sup>    | 0 <sup>31</sup>    | 12 <sup>52</sup>   | 12 <sup>52</sup>    | 19 <sup>39</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T17 | 12 26 30 | 7 <sup>57</sup> 46     | 6 <sup>11</sup> 59  | 16 <sup>18</sup>    | 18 <sup>59</sup>   | 14 <sup>35</sup>   | 24 <sup>54</sup>   | 16 <sup>54</sup>    | 11 <sup>12</sup>    | 10 <sup>20</sup>    | 0 <sup>31</sup>    | 12 <sup>47</sup>   | 12 <sup>49</sup>    | 19 <sup>46</sup>    | n.a. |   |   |   |   |   |   |   |   |
| W18 | 12 30 26 | 8 <sup>55</sup> 00     | 21 <sup>19</sup>    | 16 <sup>48</sup>    | 19 <sup>34</sup>   | 15 <sup>19</sup>   | 24 <sup>56</sup>   | 16 <sup>56</sup>    | 11 <sup>15</sup>    | 10 <sup>19</sup>    | 0 <sup>31</sup>    | 12 <sup>45</sup>   | 12 <sup>46</sup>    | 19 <sup>52</sup>    | n.a. |   |   |   |   |   |   |   |   |
| T19 | 12 34 23 | 9 <sup>52</sup> 12     | 5 <sup>18</sup> 19  | 17 <sup>22</sup>    | 20 <sup>9</sup>    | 16 <sup>3</sup>    | 24 <sup>58</sup>   | 16 <sup>59</sup>    | 11 <sup>17</sup>    | 10 <sup>17</sup>    | 0 <sup>R</sup> 31  | 12 <sup>44</sup>   | 12 <sup>43</sup>    | 19 <sup>59</sup>    | n.a. |   |   |   |   |   |   |   |   |
| F20 | 12 38 20 | 10 <sup>49</sup> 23    | 19 <sup>0</sup>     | 18 <sup>0</sup>     | 20 <sup>41</sup>   | 16 <sup>47</sup>   | 24 <sup>59</sup>   | 17 <sup>2</sup>     | 11 <sup>19</sup>    | 10 <sup>16</sup>    | 0 <sup>31</sup>    | 12 <sup>44</sup>   | 12 <sup>39</sup>    | 20 <sup>6</sup>     | n.a. |   |   |   |   |   |   |   |   |
| S21 | 12 42 16 | 11 <sup>46</sup> 33    | 2 <sup>12</sup> 22  | 18 <sup>41</sup>    | 21 <sup>13</sup>   | 17 <sup>31</sup>   | 25 <sup>1</sup>    | 17 <sup>5</sup>     | 11 <sup>21</sup>    | 10 <sup>15</sup>    | 0 <sup>31</sup>    | 12 <sup>43</sup>   | 12 <sup>36</sup>    | 20 <sup>12</sup>    | n.a. |   |   |   |   |   |   |   |   |
| S22 | 12 46 13 | 12 <sup>43</sup> 42    | 15 <sup>29</sup>    | 19 <sup>27</sup>    | 21 <sup>43</sup>   | 18 <sup>15</sup>   | 25 <sup>4</sup>    | 17 <sup>7</sup>     | 11 <sup>23</sup>    | 10 <sup>13</sup>    | 0 <sup>31</sup>    | 12 <sup>41</sup>   | 12 <sup>33</sup>    | 20 <sup>19</sup>    | n.a. |   |   |   |   |   |   |   |   |
| M23 | 12 50 9  | 13 <sup>40</sup> 49    | 28 <sup>22</sup>    | 20 <sup>17</sup>    | 22 <sup>11</sup>   | 18 <sup>59</sup>   | 25 <sup>6</sup>    | 17 <sup>10</sup>    | 11 <sup>26</sup>    | 1                   |                    |                    |                     |                     |      |   |   |   |   |   |   |   |   |

SWISS EPHEMERIS for the year 2160 BCE

MAY 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♀      | ♂      | ♃      | ♄      | ♅      | ♆      | ♇      | ♁     | ♂      | ♆      | ♁      |      |
|------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|------|
| T 1  | 13 21 42 | 21°17'28  | 5°48   | 29°12  | 24°58  | 24°46  | 25°31  | 17°26  | 11°46  | 10°R 2 | 0°R29 | 11°R 9 | 12°R 4 | 21°M19 | n.a. |
| W 2  | 13 25 38 | 22°14'31  | 17°38  | 0°Y22  | 25°10  | 25°29  | 25°35  | 17°28  | 11°49  | 10°M 1 | 0°Z29 | 11°Z 5 | 12° 1  | 21°26  | n.a. |
| T 3  | 13 29 35 | 23°11'34  | 29°32  | 1°46   | 25°20  | 26°13  | 25°39  | 17°29  | 11°51  | 10° 0  | 0°29  | 11° 3  | 11°58  | 21°33  | n.a. |
| F 4  | 13 33 31 | 24° 8'36  | 11°35  | 3°13   | 25°29  | 26°56  | 25°43  | 17°31  | 11°54  | 9°59   | 0°28  | 11°D 2 | 11°55  | 21°39  | n.a. |
| S 5  | 13 37 28 | 25° 5'39  | 23°52  | 4°43   | 25°35  | 27°38  | 25°48  | 17°32  | 11°57  | 9°58   | 0°28  | 11°R 3 | 11°52  | 21°46  | n.a. |
| S 6  | 13 41 24 | 26° 2'42  | 6°29   | 6°17   | 25°39  | 28°21  | 25°52  | 17°33  | 12° 0  | 9°57   | 0°27  | 11° 2  | 11°48  | 21°53  | n.a. |
| M 7  | 13 45 21 | 26°59'45  | 19°29  | 7°53   | 25°R40 | 29° 4  | 25°57  | 17°34  | 12° 3  | 9°56   | 0°27  | 11° 0  | 11°45  | 22° 0  | n.a. |
| T 8  | 13 49 18 | 27°56'48  | 2°58   | 9°32   | 25°39  | 29°47  | 26° 2  | 17°35  | 12° 5  | 9°55   | 0°27  | 10°56  | 11°42  | 22° 6  | n.a. |
| W 9  | 13 53 14 | 28°53'51  | 16°55  | 11°15  | 25°36  | 0°X29  | 26° 7  | 17°36  | 12° 8  | 9°54   | 0°26  | 10°50  | 11°39  | 22°13  | n.a. |
| T 10 | 13 57 11 | 29°50'54  | 1°Y21  | 13° 0  | 25°31  | 1°12   | 26°12  | 17°37  | 12°11  | 9°53   | 0°26  | 10°41  | 11°36  | 22°20  | n.a. |
| F 11 | 14 1 7   | 0°Z47'57  | 16°11  | 14°48  | 25°23  | 1°54   | 26°17  | 17°38  | 12°14  | 9°52   | 0°25  | 10°32  | 11°33  | 22°26  | n.a. |
| S 12 | 14 5 4   | 1°45'00   | 18°18  | 16°39  | 25°13  | 2°37   | 26°23  | 17°38  | 12°17  | 9°51   | 0°24  | 10°22  | 11°29  | 22°33  | n.a. |
| S 13 | 14 9 0   | 2°42'03   | 16°30  | 18°33  | 25° 1  | 3°19   | 26°28  | 17°39  | 12°20  | 9°51   | 0°24  | 10°13  | 11°26  | 22°40  | n.a. |
| M 14 | 14 12 57 | 3°39'06   | 1°I38  | 20°29  | 24°46  | 4° 1   | 26°34  | 17°39  | 12°24  | 9°50   | 0°23  | 10° 6  | 11°23  | 22°46  | n.a. |
| T 15 | 14 16 53 | 4°36'09   | 16°32  | 22°27  | 24°29  | 4°43   | 26°40  | 17°39  | 12°27  | 9°49   | 0°23  | 10° 2  | 11°20  | 22°53  | n.a. |
| W 16 | 14 20 50 | 5°33'12   | 18° 6  | 24°28  | 24°10  | 5°25   | 26°46  | 17°40  | 12°30  | 9°48   | 0°22  | 10° 0  | 11°17  | 23° 0  | n.a. |
| T 17 | 14 24 47 | 6°30'15   | 15°15  | 26°31  | 23°48  | 6° 7   | 26°52  | 17°R40 | 12°33  | 9°48   | 0°21  | 10°D 0 | 11°14  | 23° 6  | n.a. |
| F 18 | 14 28 43 | 7°27'18   | 29° 1  | 28°35  | 23°24  | 6°49   | 26°58  | 17°40  | 12°36  | 9°47   | 0°21  | 10° 0  | 11°10  | 23°13  | n.a. |
| S 19 | 14 32 40 | 8°24'20   | 12°Q23 | 0°X41  | 22°58  | 7°31   | 27° 5  | 17°40  | 12°39  | 9°46   | 0°20  | 10°R 1 | 11° 7  | 23°20  | n.a. |
| S 20 | 14 36 36 | 9°21'23   | 25°24  | 2°49   | 22°31  | 8°13   | 27°12  | 17°39  | 12°43  | 9°46   | 0°19  | 9°59   | 11° 4  | 23°27  | n.a. |
| M 21 | 14 40 33 | 10°18'25  | 8°M 8  | 4°57   | 22° 1  | 8°54   | 27°18  | 17°39  | 12°46  | 9°45   | 0°19  | 9°56   | 11° 1  | 23°33  | n.a. |
| T 22 | 14 44 29 | 11°15'27  | 20°38  | 7° 6   | 21°30  | 9°36   | 27°25  | 17°39  | 12°49  | 9°44   | 0°18  | 9°50   | 10°58  | 23°40  | n.a. |
| W 23 | 14 48 26 | 12°12'30  | 2°X56  | 9°15   | 20°57  | 10°17  | 27°32  | 17°38  | 12°52  | 9°44   | 0°17  | 9°42   | 10°54  | 23°47  | n.a. |
| T 24 | 14 52 22 | 13° 9'33  | 15° 5  | 11°25  | 20°23  | 10°58  | 27°39  | 17°38  | 12°56  | 9°43   | 0°16  | 9°33   | 10°51  | 23°53  | n.a. |
| F 25 | 14 56 19 | 14° 6'36  | 27° 6  | 13°34  | 19°48  | 11°40  | 27°46  | 17°37  | 12°59  | 9°43   | 0°15  | 9°23   | 10°48  | 24° 0  | n.a. |
| S 26 | 15 0 16  | 15° 3'39  | 9°M 3  | 15°43  | 19°12  | 12°21  | 27°54  | 17°36  | 13° 3  | 9°42   | 0°15  | 9°13   | 10°45  | 24° 7  | n.a. |
| S 27 | 15 4 12  | 16° 0'43  | 20°55  | 17°51  | 18°35  | 13° 2  | 28° 1  | 17°35  | 13° 6  | 9°42   | 0°14  | 9° 4   | 10°42  | 24°13  | n.a. |
| M 28 | 15 8 9   | 16°57'47  | 2°A45  | 19°58  | 17°58  | 13°43  | 28° 9  | 17°34  | 13° 9  | 9°41   | 0°13  | 8°56   | 10°39  | 24°20  | n.a. |
| T 29 | 15 12 5  | 17°54'52  | 14°35  | 22° 5  | 17°20  | 14°23  | 28°17  | 17°33  | 13°13  | 9°41   | 0°12  | 8°51   | 10°35  | 24°27  | n.a. |
| W 30 | 15 16 2  | 18°51'58  | 26°26  | 24°10  | 16°43  | 15° 4  | 28°25  | 17°32  | 13°16  | 9°41   | 0°11  | 8°48   | 10°32  | 24°33  | n.a. |
| T 31 | 15 19 58 | 19°Z49'05 | 8°Z23  | 26°B13 | 16°B 6 | 15°A45 | 28°Z33 | 17°Z31 | 13°I20 | 9°M40  | 0°Z10 | 8°D47  | 10°Z29 | 24°M40 | n.a. |

Delta T = 14h37m17s Julian Calendar 1 May 2160 BCE == Greg. Calendar 13 Apr. 2160 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

JUNE 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♀      | ♂      | ♃      | ♄      | ♅      | ♆      | ♇     | ♁      | ♂     | ♆      | ♁      |      |
|------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|------|
| F 1  | 15 23 55 | 20°B46'12 | 20°Z29 | 28°R16 | 15°R30 | 16°X25 | 28°Z41 | 17°R29 | 13°I23 | 9°R40 | 0°R 9  | 8°Z48 | 10°Z26 | 24°M47 | n.a. |
| S 2  | 15 27 51 | 21°43'20  | 2°X48  | 0°I17  | 14°B54 | 17° 6  | 28°49  | 17°Z28 | 13°27  | 9°M40 | 0°Z 8  | 8°49  | 10°23  | 24°53  | n.a. |
| S 3  | 15 31 48 | 22°40'29  | 15°24  | 2°16   | 14°19  | 17°46  | 28°57  | 17°26  | 13°30  | 9°40  | 0° 7   | 8°50  | 10°20  | 25° 0  | n.a. |
| M 4  | 15 35 45 | 23°37'40  | 28°22  | 4°14   | 13°46  | 18°26  | 29° 6  | 17°24  | 13°34  | 9°40  | 0° 6   | 8°R50 | 10°16  | 25° 7  | n.a. |
| T 5  | 15 39 41 | 24°34'51  | 11°X45 | 6°10   | 13°14  | 19° 6  | 29°14  | 17°23  | 13°37  | 9°39  | 0° 5   | 8°49  | 10°13  | 25°14  | n.a. |
| W 6  | 15 43 38 | 25°32'03  | 25°37  | 8° 4   | 12°43  | 19°47  | 29°23  | 17°21  | 13°41  | 9°39  | 0° 4   | 8°46  | 10°10  | 25°20  | n.a. |
| T 7  | 15 47 34 | 26°29'17  | 9°Y56  | 9°57   | 12°15  | 20°26  | 29°32  | 17°19  | 13°45  | 9°39  | 0° 3   | 8°41  | 10° 7  | 25°27  | n.a. |
| F 8  | 15 51 31 | 27°26'31  | 24°40  | 11°48  | 11°48  | 21° 6  | 29°41  | 17°17  | 13°48  | 9°39  | 0° 2   | 8°36  | 10° 4  | 25°34  | n.a. |
| S 9  | 15 55 27 | 28°23'47  | 9°B44  | 13°37  | 11°23  | 21°46  | 29°50  | 17°14  | 13°52  | 9°D39 | 0° 1   | 8°30  | 10° 0  | 25°40  | n.a. |
| S 10 | 15 59 24 | 29°21'04  | 24°57  | 15°25  | 11° 0  | 22°25  | 29°59  | 17°12  | 13°55  | 9°39  | 0° 0   | 8°24  | 9°57   | 25°47  | n.a. |
| M 11 | 16 3 20  | 0°I18'21  | 10°I11 | 17°11  | 10°39  | 23° 5  | 0°Q 8  | 17°10  | 13°59  | 9°39  | 29°A59 | 8°20  | 9°54   | 25°54  | n.a. |
| T 12 | 16 7 17  | 1°15'40   | 25°14  | 18°55  | 10°21  | 23°44  | 0°17   | 17° 7  | 14° 3  | 9°39  | 29°58  | 8°18  | 9°51   | 26° 0  | n.a. |
| W 13 | 16 11 14 | 2°13'00   | 9°Z59  | 20°37  | 10° 4  | 24°24  | 0°27   | 17° 5  | 14° 6  | 9°39  | 29°57  | 8°D18 | 9°48   | 26° 7  | n.a. |
| T 14 | 16 15 10 | 3°10'21   | 24°20  | 22°18  | 9°51   | 25° 3  | 0°36   | 17° 2  | 14°10  | 9°39  | 29°56  | 8°18  | 9°45   | 26°14  | n.a. |
| F 15 | 16 19 7  | 4° 7'42   | 8°Q15  | 23°57  | 9°39   | 25°42  | 0°46   | 17° 0  | 14°14  | 9°40  | 29°54  | 8°20  | 9°41   | 26°20  | n.a. |
| S 16 | 16 23 3  | 5° 5'04   | 21°43  | 25°34  | 9°30   | 26°20  | 0°56   | 16°57  | 14°17  | 9°40  | 29°53  | 8°21  | 9°38   | 26°27  | n.a. |
| S 17 | 16 27 0  | 6° 2'27   | 4°M47  | 27°10  | 9°23   | 26°59  | 1° 6   | 16°54  | 14°21  | 9°40  | 29°52  | 8°R22 | 9°35   | 26°34  | n.a. |
| M 18 | 16 30 56 | 6°59'51   | 17°30  | 28°44  | 9°19   | 27°38  | 1°15   | 16°51  | 14°25  | 9°40  | 29°51  | 8°21  | 9°32   | 26°40  | n.a. |
| T 19 | 16 34 53 | 7°57'16   | 29°55  | 0°Z17  | 9°D17  | 28°16  | 1°25   | 16°48  | 14°29  | 9°41  | 29°50  | 8°19  | 9°29   | 26°47  | n.a. |
| W 20 | 16 38 49 | 8°54'42   | 12°Z 7 | 1°47   | 9°17   | 28°55  | 1°36   | 16°45  | 14°32  | 9°41  | 29°48  | 8°16  | 9°25   | 26°54  | n.a. |
| T 21 | 16 42 46 | 9°52'08   | 24° 9  | 3°16   | 9°20   | 29°33  | 1°46   | 16°42  | 14°36  | 9°41  | 29°47  | 8°12  | 9°22   | 27° 0  | n.a. |
| F 22 | 16 46 43 | 10°49'36  | 6°M 5  | 4°43   | 9°25   | 0°Y11  | 1°56   | 16°39  | 14°40  | 9°42  | 29°46  | 8° 7  | 9°19   | 27° 7  | n.a. |
| S 23 | 16 50 39 | 11°47'06  | 17°56  | 6° 9   | 9°32   | 0°49   | 2° 6   | 16°35  | 14°43  | 9°42  | 29°45  | 8° 3  | 9°16   | 27°14  | n.a. |
| S 24 | 16 54 36 | 12°44'36  | 29°47  | 7°32   | 9°41   | 1°27   | 2°17   | 16°32  | 14°47  | 9°43  | 29°43  | 7°59  | 9°13   | 27°21  | n.a. |
| M 25 | 16 58 32 | 13°42'08  | 11°A37 | 8°54   | 9°52   | 2° 4   | 2°27   | 16°28  | 14°51  | 9°43  | 29°42  | 7°56  | 9°10   | 27°27  | n.a. |
| T 26 | 17 2 29  | 14°39'42  | 23°31  | 10°14  | 10° 5  | 2°42   | 2°38   | 16°25  | 14°55  | 9°44  | 29°41  | 7°54  | 9° 6   | 27°34  | n.a. |
| W 27 | 17 6 25  | 15°37'16  | 5°Z29  | 11°32  | 10°21  | 3°19   | 2°49   | 16°21  | 14°58  | 9°44  | 29°40  | 7°D53 | 9° 3   | 27°41  | n.a. |
| T 28 | 17 10 22 | 16°34'53  | 17°35  | 12°49  | 10°38  | 3°57   | 2°59   | 16°18  | 15° 2  | 9°45  | 29°38  | 7°53  | 9° 0   | 27°47  | n.a. |
| F 29 | 17 14 18 | 17°32'31  | 29°49  | 14° 3  | 10°57  | 4°34   | 3°10   | 16°14  | 15° 6  | 9°45  | 29°37  | 7°54  | 8°57   | 27°54  | n.a. |
| S 30 | 17 18 15 | 18°I30'10 | 12°X16 | 15°Z15 | 11°B18 | 5°Y11  | 3°Q21  | 16°Z10 | 15°I10 | 9°M46 | 29°A36 | 7°Z56 | 8°Z54  | 28°M 1 | n.a. |

Delta T = 14h37m15s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [6.2.2007]

SWISS EPHEMERIS for the year 2160 BCE

JULY 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽     | ♀      | ♁     | ♂     | ♃    | ♄      | ♅      | ♆     | ♇      | ♈     | ♉    | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|-----------|-------|--------|-------|-------|------|--------|--------|-------|--------|-------|------|-------|------|---|---|---|---|---|---|---|---|--|
| S 1  | 17 22 12 | 19II27'52 | 24☾58 | 16☿25  | 11♁41 | 5♂48  | 3♃32 | 16♄R 6 | 15♅13  | 9♆47  | 29♇R35 | 7♈57  | 8♉51 | 28♊ 7 | n.a. |   |   |   |   |   |   |   |   |  |
| M 2  | 17 26 8  | 20°25'35  | 7♁58  | 17°33  | 12° 6 | 6°24  | 3°43 | 16♄ 2  | 15°17  | 9°47  | 29♇R33 | 7°58  | 8°47 | 28°14 | n.a. |   |   |   |   |   |   |   |   |  |
| T 3  | 17 30 5  | 21°23'20  | 21°19 | 18°38  | 12°32 | 7° 1  | 3°54 | 15°58  | 15°21  | 9°48  | 29°32  | 7°R59 | 8°44 | 28°21 | n.a. |   |   |   |   |   |   |   |   |  |
| W 4  | 17 34 1  | 22°21'07  | 5♂ 3  | 19°41  | 12°59 | 7°37  | 4° 6 | 15°54  | 15°24  | 9°49  | 29°31  | 7°58  | 8°41 | 28°27 | n.a. |   |   |   |   |   |   |   |   |  |
| T 5  | 17 37 58 | 23°18'56  | 19°11 | 20°41  | 13°29 | 8°13  | 4°17 | 15°50  | 15°28  | 9°50  | 29°29  | 7°57  | 8°38 | 28°34 | n.a. |   |   |   |   |   |   |   |   |  |
| F 6  | 17 41 54 | 24°16'47  | 3♁40  | 21°39  | 13°59 | 8°50  | 4°28 | 15°46  | 15°32  | 9°51  | 29°28  | 7°56  | 8°35 | 28°41 | n.a. |   |   |   |   |   |   |   |   |  |
| S 7  | 17 45 51 | 25°14'40  | 18°28 | 22°34  | 14°32 | 9°26  | 4°40 | 15°42  | 15°36  | 9°51  | 29°27  | 7°54  | 8°31 | 28°47 | n.a. |   |   |   |   |   |   |   |   |  |
| S 8  | 17 49 47 | 26°12'35  | 3II28 | 23°26  | 15° 5 | 10° 1 | 4°51 | 15°38  | 15°39  | 9°52  | 29°25  | 7°53  | 8°28 | 28°54 | n.a. |   |   |   |   |   |   |   |   |  |
| M 9  | 17 53 44 | 27°10'32  | 18°31 | 24°15  | 15°40 | 10°37 | 5° 3 | 15°33  | 15°43  | 9°53  | 29°24  | 7°52  | 8°25 | 29° 1 | n.a. |   |   |   |   |   |   |   |   |  |
| T 10 | 17 57 41 | 28° 8'31  | 3☿30  | 25° 0  | 16°16 | 11°12 | 5°14 | 15°29  | 15°47  | 9°54  | 29°23  | 7°D51 | 8°22 | 29° 7 | n.a. |   |   |   |   |   |   |   |   |  |
| W11  | 18 1 37  | 29° 6'31  | 18°16 | 25°42  | 16°53 | 11°48 | 5°26 | 15°25  | 15°50  | 9°55  | 29°22  | 7°52  | 8°19 | 29°14 | n.a. |   |   |   |   |   |   |   |   |  |
| T 12 | 18 5 34  | 0☿ 4'34   | 2♁41  | 26°20  | 17°32 | 12°23 | 5°38 | 15°20  | 15°54  | 9°56  | 29°20  | 7°52  | 8°16 | 29°21 | n.a. |   |   |   |   |   |   |   |   |  |
| F 13 | 18 9 30  | 1° 2'37   | 16°42 | 26°54  | 18°12 | 12°58 | 5°49 | 15°16  | 15°58  | 9°57  | 29°19  | 7°53  | 8°12 | 29°27 | n.a. |   |   |   |   |   |   |   |   |  |
| S 14 | 18 13 27 | 2° 0'43   | 0♁18  | 27°24  | 18°52 | 13°32 | 6° 1 | 15°11  | 16° 1  | 9°58  | 29°18  | 7°53  | 8° 9 | 29°34 | n.a. |   |   |   |   |   |   |   |   |  |
| S 15 | 18 17 23 | 2°58'50   | 13°27 | 27°50  | 19°34 | 14° 7 | 6°13 | 15° 7  | 16° 5  | 9°59  | 29°16  | 7°54  | 8° 6 | 29°41 | n.a. |   |   |   |   |   |   |   |   |  |
| M16  | 18 21 20 | 3°56'58   | 26°14 | 28°10  | 20°17 | 14°41 | 6°25 | 15° 2  | 16° 9  | 10° 1 | 29°15  | 7°54  | 8° 3 | 29°47 | n.a. |   |   |   |   |   |   |   |   |  |
| T 17 | 18 25 16 | 4°55'08   | 8♁41  | 28°26  | 21° 0 | 15°15 | 6°37 | 14°58  | 16°12  | 10° 2 | 29°14  | 7°R54 | 8° 0 | 29°54 | n.a. |   |   |   |   |   |   |   |   |  |
| W18  | 18 29 13 | 5°53'20   | 20°52 | 28°36  | 21°45 | 15°49 | 6°49 | 14°53  | 16°16  | 10° 3 | 29°12  | 7°54  | 7°57 | 0♁ 1  | n.a. |   |   |   |   |   |   |   |   |  |
| T 19 | 18 33 10 | 6°51'34   | 2♁51  | 28°R40 | 22°31 | 16°23 | 7° 1 | 14°49  | 16°19  | 10° 4 | 29°11  | 7°54  | 7°53 | 0° 7  | n.a. |   |   |   |   |   |   |   |   |  |
| F 20 | 18 37 6  | 7°49'49   | 14°44 | 28°38  | 23°17 | 16°57 | 7°14 | 14°44  | 16°23  | 10° 5 | 29°10  | 7°D54 | 7°50 | 0°14  | n.a. |   |   |   |   |   |   |   |   |  |
| S 21 | 18 41 3  | 8°48'06   | 26°34 | 28°31  | 24° 4 | 17°30 | 7°26 | 14°39  | 16°26  | 10° 7 | 29° 8  | 7°54  | 7°47 | 0°21  | n.a. |   |   |   |   |   |   |   |   |  |
| S 22 | 18 44 59 | 9°46'25   | 8♁25  | 28°17  | 24°53 | 18° 3 | 7°38 | 14°35  | 16°30  | 10° 8 | 29° 7  | 7°54  | 7°44 | 0°28  | n.a. |   |   |   |   |   |   |   |   |  |
| M23  | 18 48 56 | 10°44'46  | 20°19 | 27°56  | 25°42 | 18°36 | 7°50 | 14°30  | 16°33  | 10° 9 | 29° 6  | 7°54  | 7°41 | 0°34  | n.a. |   |   |   |   |   |   |   |   |  |
| T 24 | 18 52 52 | 11°43'09  | 2☿19  | 27°29  | 26°31 | 19° 9 | 8° 3 | 14°26  | 16°37  | 10°11 | 29° 5  | 7°R54 | 7°37 | 0°41  | n.a. |   |   |   |   |   |   |   |   |  |
| W25  | 18 56 49 | 12°41'34  | 14°28 | 26°56  | 27°22 | 19°41 | 8°15 | 14°21  | 16°40  | 10°12 | 29° 3  | 7°54  | 7°34 | 0°48  | n.a. |   |   |   |   |   |   |   |   |  |
| T 26 | 19 0 46  | 13°40'01  | 26°47 | 26°16  | 28°13 | 20°14 | 8°28 | 14°16  | 16°44  | 10°14 | 29° 2  | 7°54  | 7°31 | 0°54  | n.a. |   |   |   |   |   |   |   |   |  |
| F 27 | 19 4 42  | 14°38'30  | 9♁18  | 25°30  | 29° 5 | 20°46 | 8°40 | 14°12  | 16°47  | 10°15 | 29° 1  | 7°53  | 7°28 | 1° 1  | n.a. |   |   |   |   |   |   |   |   |  |
| S 28 | 19 8 39  | 15°37'01  | 22° 1 | 24°39  | 29°57 | 21°18 | 8°53 | 14° 7  | 16°51  | 10°16 | 28°59  | 7°52  | 7°25 | 1° 8  | n.a. |   |   |   |   |   |   |   |   |  |
| S 29 | 19 12 35 | 16°35'35  | 4♁58  | 23°44  | 0II50 | 21°49 | 9° 5 | 14° 2  | 16°54  | 10°18 | 28°58  | 7°51  | 7°22 | 1°14  | n.a. |   |   |   |   |   |   |   |   |  |
| M30  | 19 16 32 | 17°34'11  | 18° 9 | 22°44  | 1°44  | 22°21 | 9°18 | 13°58  | 16°57  | 10°19 | 28°57  | 7°50  | 7°18 | 1°21  | n.a. |   |   |   |   |   |   |   |   |  |
| T 31 | 19 20 28 | 18☿32'49  | 1♂36  | 21☿43  | 2II39 | 22♂52 | 9♁30 | 13☿53  | 17II 1 | 10♁21 | 28♁56  | 7☿49  | 7☿15 | 1♁28  | n.a. |   |   |   |   |   |   |   |   |  |

Delta T = 14h37m12s Julian Calendar 1 July 2160 BCE == Greg. Calendar 13 June 2160 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

AUGUST 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽      | ♀      | ♁     | ♂     | ♃     | ♄      | ♅      | ♆     | ♇      | ♈     | ♉    | ♊    | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|----------|--------|--------|-------|-------|-------|--------|--------|-------|--------|-------|------|------|------|---|---|---|---|---|---|---|---|--|
| W 1  | 19 24 25 | 19☿31'29 | 15♂19  | 20°R40 | 3II34 | 23♂23 | 9♁43  | 13°R48 | 17II 4 | 10♁23 | 28°R55 | 7°D49 | 7☿12 | 1♁34 | n.a. |   |   |   |   |   |   |   |   |  |
| T 2  | 19 28 21 | 20°30'12 | 29°18  | 19☿37  | 4°29  | 23°54 | 9°56  | 13☿44  | 17° 7  | 10°24 | 28♁53  | 7☿49  | 7° 9 | 1°41 | n.a. |   |   |   |   |   |   |   |   |  |
| F 3  | 19 32 18 | 21°28'58 | 13♁32  | 18°36  | 5°25  | 24°24 | 10° 9 | 13°39  | 17°10  | 10°26 | 28°52  | 7°50  | 7° 6 | 1°48 | n.a. |   |   |   |   |   |   |   |   |  |
| S 4  | 19 36 15 | 22°27'46 | 27°58  | 17°38  | 6°22  | 24°54 | 10°21 | 13°34  | 17°14  | 10°27 | 28°51  | 7°51  | 7° 3 | 1°54 | n.a. |   |   |   |   |   |   |   |   |  |
| S 5  | 19 40 11 | 23°26'36 | 12II35 | 16°45  | 7°19  | 25°24 | 10°34 | 13°30  | 17°17  | 10°29 | 28°50  | 7°52  | 6°59 | 2° 1 | n.a. |   |   |   |   |   |   |   |   |  |
| M 6  | 19 44 8  | 24°25'29 | 27°16  | 15°58  | 8°17  | 25°54 | 10°47 | 13°25  | 17°20  | 10°31 | 28°49  | 7°53  | 6°56 | 2° 8 | n.a. |   |   |   |   |   |   |   |   |  |
| T 7  | 19 48 4  | 25°24'25 | 11☿56  | 15°18  | 9°15  | 26°23 | 11° 0 | 13°21  | 17°23  | 10°32 | 28°47  | 7°R53 | 6°53 | 2°14 | n.a. |   |   |   |   |   |   |   |   |  |
| W 8  | 19 52 1  | 26°23'22 | 26°27  | 14°47  | 10°13 | 26°53 | 11°13 | 13°16  | 17°26  | 10°34 | 28°46  | 7°52  | 6°50 | 2°21 | n.a. |   |   |   |   |   |   |   |   |  |
| T 9  | 19 55 57 | 27°22'22 | 10♁45  | 14°25  | 11°12 | 27°21 | 11°26 | 13°12  | 17°29  | 10°36 | 28°45  | 7°50  | 6°47 | 2°28 | n.a. |   |   |   |   |   |   |   |   |  |
| F 10 | 19 59 54 | 28°21'24 | 24°44  | 14°12  | 12°12 | 27°50 | 11°39 | 13° 7  | 17°32  | 10°38 | 28°44  | 7°48  | 6°43 | 2°34 | n.a. |   |   |   |   |   |   |   |   |  |
| S 11 | 20 3 50  | 29°20'28 | 8♁21   | 14°D10 | 13°12 | 28°18 | 11°52 | 13° 3  | 17°35  | 10°39 | 28°43  | 7°45  | 6°40 | 2°41 | n.a. |   |   |   |   |   |   |   |   |  |
| S 12 | 20 7 47  | 0♁19'34  | 21°33  | 14°17  | 14°12 | 28°46 | 12° 5 | 12°59  | 17°38  | 10°41 | 28°42  | 7°42  | 6°37 | 2°48 | n.a. |   |   |   |   |   |   |   |   |  |
| M13  | 20 11 44 | 1°18'42  | 4♁23   | 14°35  | 15°13 | 29°14 | 12°18 | 12°54  | 17°41  | 10°43 | 28°41  | 7°39  | 6°34 | 2°54 | n.a. |   |   |   |   |   |   |   |   |  |
| T 14 | 20 15 40 | 2°17'51  | 16°52  | 15° 2  | 16°14 | 29°41 | 12°31 | 12°50  | 17°44  | 10°45 | 28°40  | 7°37  | 6°31 | 3° 1 | n.a. |   |   |   |   |   |   |   |   |  |
| W15  | 20 19 37 | 3°17'03  | 29° 5  | 15°39  | 17°15 | 0♁ 8  | 12°44 | 12°46  | 17°47  | 10°47 | 28°39  | 7°D36 | 6°28 | 3° 8 | n.a. |   |   |   |   |   |   |   |   |  |
| T 16 | 20 23 33 | 4°16'17  | 11II 5 | 16°25  | 18°17 | 0°35  | 12°57 | 12°42  | 17°50  | 10°49 | 28°38  | 7°36  | 6°24 | 3°14 | n.a. |   |   |   |   |   |   |   |   |  |
| F 17 | 20 27 30 | 5°15'33  | 22°57  | 17°19  | 19°19 | 1° 1  | 13°10 | 12°37  | 17°53  | 10°51 | 28°37  | 7°37  | 6°21 | 3°21 | n.a. |   |   |   |   |   |   |   |   |  |
| S 18 | 20 31 26 | 6°14'51  | 4♁47   | 18°20  | 20°22 | 1°27  | 13°23 | 12°33  | 17°56  | 10°52 | 28°36  | 7°39  | 6°18 | 3°28 | n.a. |   |   |   |   |   |   |   |   |  |
| S 19 | 20 35 23 | 7°14'11  | 16°38  | 19°28  | 21°24 | 1°53  | 13°36 | 12°29  | 17°58  | 10°54 | 28°35  | 7°40  | 6°15 | 3°34 | n.a. |   |   |   |   |   |   |   |   |  |
| M20  | 20 39 19 | 8°13'33  | 28°36  | 20°42  | 22°28 | 2°18  | 13°49 | 12°25  | 18° 1  | 10°56 | 28°34  | 7°42  | 6°12 | 3°41 | n.a. |   |   |   |   |   |   |   |   |  |
| T 21 | 20 43 16 | 9°12'57  | 10☿44  | 22° 2  | 23°31 | 2°43  | 14° 2 | 12°21  | 18° 4  | 10°58 | 28°33  | 7°R42 | 6° 9 | 3°48 | n.a. |   |   |   |   |   |   |   |   |  |
| W22  | 20 47 13 | 10°12'23 | 23° 4  | 23°26  | 24°35 | 3° 8  | 14°15 | 12°18  | 18° 7  | 11° 0 | 28°32  | 7°41  | 6° 5 | 3°54 | n.a. |   |   |   |   |   |   |   |   |  |
| T 23 | 20 51 9  | 11°11'51 | 5♁39   | 24°55  | 25°39 | 3°32  | 14°28 | 12°14  | 18° 9  | 11° 2 | 28°31  | 7°38  | 6° 2 | 4° 1 | n.a. |   |   |   |   |   |   |   |   |  |
| F 24 | 20 55 6  | 12°11'21 | 18°30  | 26°26  | 26°43 | 3°56  | 14°42 | 12°10  | 18°12  | 11° 4 | 28°30  | 7°34  | 5°59 | 4° 8 | n.a. |   |   |   |   |   |   |   |   |  |
| S 25 | 20 59 2  | 13°10'54 | 1♁36   | 28° 1  | 27°48 | 4°19  | 14°55 | 12° 6  | 18°14  | 11° 6 | 28°29  | 7°28  | 5°56 | 4°14 | n.a. |   |   |   |   |   |   |   |   |  |
| S 26 | 21 2 59  | 14°10'28 | 14°56  | 29°38  | 28°53 | 4°43  | 15° 8 | 12° 3  | 18°17  | 11° 8 | 28°28  | 7°22  | 5°53 | 4°21 | n.a. |   |   |   |   |   |   |   |   |  |
| M27  | 21 6 55  | 15°10'05 | 28°29  | 1♁17   | 29°59 | 5° 5  | 15°21 | 11°59  | 18°19  | 11°10 | 28°27  | 7°16  | 5°49 | 4°28 | n.a. |   |   |   |   |   |   |   |   |  |
| T 28 | 21 10 52 | 16° 9'45 | 12♂13  | 2°57   | 1☿ 4  | 5°28  | 15°34 | 11°56  | 18°22  | 11°13 | 28°27  | 7°11  |      |      |      |   |   |   |   |   |   |   |   |  |

SWISS EPHEMERIS for the year 2160 BCE

SEPTEMBER 2160 BCE (-2159) JC

00:00 UT

| Day | Sid.t    | ☉        | ☽      | ♀     | ♁     | ♂     | ♃      | ♄      | ♅       | ♆      | ♇      | ♈     | ♉     | ♊    | ♋    | ♌ | ♍ |
|-----|----------|----------|--------|-------|-------|-------|--------|--------|---------|--------|--------|-------|-------|------|------|---|---|
| S 1 | 21 26 38 | 20♌ 8°48 | 8♀II22 | 9♂♏47 | 5♁29  | 6♂♍52 | 16♄♏27 | 11°R43 | 18♀II31 | 11♃♐21 | 28°R24 | 7♁♋6  | 5♁♋34 | 5♂♌1 | n.a. |   |   |
| S 2 | 21 30 35 | 21° 8'40 | 22°36  | 11°30 | 6°36  | 7°12  | 16°40  | 11♁♋40 | 18°33   | 11°23  | 28♂♌23 | 7° 7  | 5°30  | 5° 8 | n.a. |   |   |
| M 3 | 21 34 31 | 22° 8'35 | 6♁51   | 13°14 | 7°43  | 7°32  | 16°53  | 11°37  | 18°35   | 11°25  | 28°22  | 7°R 8 | 5°27  | 5°14 | n.a. |   |   |
| T 4 | 21 38 28 | 23° 8'31 | 21° 3  | 14°57 | 8°50  | 7°51  | 17° 6  | 11°34  | 18°37   | 11°27  | 28°22  | 7° 7  | 5°24  | 5°21 | n.a. |   |   |
| W 5 | 21 42 24 | 24° 8'30 | 5♂♌10  | 16°41 | 9°58  | 8°10  | 17°19  | 11°31  | 18°39   | 11°30  | 28°21  | 7° 4  | 5°21  | 5°28 | n.a. |   |   |
| T 6 | 21 46 21 | 25° 8'32 | 19° 8  | 18°24 | 11° 5 | 8°28  | 17°33  | 11°28  | 18°41   | 11°32  | 28°20  | 6°59  | 5°18  | 5°34 | n.a. |   |   |
| F 7 | 21 50 17 | 26° 8'35 | 2♃52   | 20° 6 | 12°13 | 8°46  | 17°46  | 11°26  | 18°43   | 11°34  | 28°20  | 6°52  | 5°15  | 5°41 | n.a. |   |   |
| S 8 | 21 54 14 | 27° 8'40 | 16°20  | 21°49 | 13°21 | 9° 3  | 17°59  | 11°23  | 18°45   | 11°36  | 28°19  | 6°43  | 5°11  | 5°48 | n.a. |   |   |
| S 9 | 21 58 11 | 28° 8'48 | 29°28  | 23°31 | 14°30 | 9°19  | 18°12  | 11°21  | 18°47   | 11°38  | 28°19  | 6°33  | 5° 8  | 5°54 | n.a. |   |   |
| M10 | 22 2 7   | 29° 8'57 | 12♁16  | 25°12 | 15°38 | 9°35  | 18°25  | 11°18  | 18°49   | 11°41  | 28°18  | 6°25  | 5° 5  | 6° 1 | n.a. |   |   |
| T11 | 22 6 4   | 0♃9'08   | 24°45  | 26°53 | 16°47 | 9°51  | 18°38  | 11°16  | 18°50   | 11°43  | 28°18  | 6°17  | 5° 2  | 6° 8 | n.a. |   |   |
| W12 | 22 10 0  | 1° 9'21  | 6♌57   | 28°34 | 17°56 | 10° 5 | 18°51  | 11°14  | 18°52   | 11°45  | 28°17  | 6°12  | 4°59  | 6°14 | n.a. |   |   |
| T13 | 22 13 57 | 2° 9'35  | 18°57  | 0♃14  | 19° 5 | 10°20 | 19° 4  | 11°12  | 18°54   | 11°47  | 28°17  | 6° 9  | 4°55  | 6°21 | n.a. |   |   |
| F14 | 22 17 53 | 3° 9'52  | 0♂49   | 1°53  | 20°14 | 10°33 | 19°17  | 11°10  | 18°55   | 11°49  | 28°16  | 6°D 7 | 4°52  | 6°28 | n.a. |   |   |
| S15 | 22 21 50 | 4°10'10  | 12°38  | 3°32  | 21°24 | 10°47 | 19°30  | 11° 8  | 18°57   | 11°52  | 28°16  | 6° 8  | 4°49  | 6°34 | n.a. |   |   |
| S16 | 22 25 46 | 5°10'30  | 24°29  | 5°11  | 22°33 | 10°59 | 19°43  | 11° 6  | 18°59   | 11°54  | 28°15  | 6° 9  | 4°46  | 6°41 | n.a. |   |   |
| M17 | 22 29 43 | 6°10'51  | 6♁28   | 6°49  | 23°43 | 11°11 | 19°56  | 11° 4  | 19° 0   | 11°56  | 28°15  | 6°R 9 | 4°43  | 6°48 | n.a. |   |   |
| T18 | 22 33 40 | 7°11'14  | 18°40  | 8°26  | 24°53 | 11°22 | 20° 9  | 11° 3  | 19° 1   | 11°58  | 28°15  | 6° 8  | 4°40  | 6°54 | n.a. |   |   |
| W19 | 22 37 36 | 8°11'39  | 1♁ 8   | 10° 4 | 26° 3 | 11°33 | 20°22  | 11° 1  | 19° 3   | 12° 1  | 28°15  | 6° 5  | 4°36  | 7° 1 | n.a. |   |   |
| T20 | 22 41 33 | 9°12'05  | 13°56  | 11°40 | 27°13 | 11°43 | 20°35  | 11° 0  | 19° 4   | 12° 3  | 28°14  | 6° 0  | 4°33  | 7° 8 | n.a. |   |   |
| F21 | 22 45 29 | 10°12'33 | 27° 5  | 13°17 | 28°24 | 11°52 | 20°47  | 10°59  | 19° 5   | 12° 5  | 28°14  | 5°52  | 4°30  | 7°14 | n.a. |   |   |
| S22 | 22 49 26 | 11°13'03 | 10♂34  | 14°53 | 29°34 | 12° 0 | 21° 0  | 10°58  | 19° 6   | 12° 7  | 28°14  | 5°41  | 4°27  | 7°21 | n.a. |   |   |
| S23 | 22 53 22 | 12°13'35 | 24°21  | 16°28 | 0♂45  | 12° 8 | 21°13  | 10°57  | 19° 8   | 12°10  | 28°14  | 5°30  | 4°24  | 7°28 | n.a. |   |   |
| M24 | 22 57 19 | 13°14'08 | 8♂22   | 18° 3 | 1°56  | 12°15 | 21°26  | 10°56  | 19° 9   | 12°12  | 28°13  | 5°19  | 4°20  | 7°34 | n.a. |   |   |
| T25 | 23 1 15  | 14°14'44 | 22°32  | 19°38 | 3° 7  | 12°22 | 21°38  | 10°55  | 19°10   | 12°14  | 28°13  | 5° 9  | 4°17  | 7°41 | n.a. |   |   |
| W26 | 23 5 12  | 15°15'21 | 6♂47   | 21°13 | 4°18  | 12°28 | 21°51  | 10°54  | 19°11   | 12°16  | 28°13  | 5° 1  | 4°14  | 7°48 | n.a. |   |   |
| T27 | 23 9 8   | 16°16'00 | 21° 1  | 22°47 | 5°29  | 12°33 | 22° 4  | 10°53  | 19°12   | 12°19  | 28°13  | 4°57  | 4°11  | 7°54 | n.a. |   |   |
| F28 | 23 13 5  | 17°16'41 | 5♀II13 | 24°20 | 6°40  | 12°37 | 22°16  | 10°53  | 19°13   | 12°21  | 28°13  | 4°54  | 4° 8  | 8° 1 | n.a. |   |   |
| S29 | 23 17 2  | 18°17'24 | 19°19  | 25°54 | 7°52  | 12°40 | 22°29  | 10°52  | 19°13   | 12°23  | 28°13  | 4°D54 | 4° 5  | 8° 8 | n.a. |   |   |
| S30 | 23 20 58 | 19♃18'10 | 3♁20   | 27♃27 | 9♂ 3  | 12♂43 | 22♂41  | 10♁52  | 19♀II14 | 12♃25  | 28°D13 | 4°R54 | 4♁ 1  | 8♂14 | n.a. |   |   |

Delta T = 14h37m08s Julian Calendar 1 Sept. 2160 BCE == Greg. Calendar 14 Aug. 2160 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

OCTOBER 2160 BCE (-2159) JC

00:00 UT

| Day | Sid.t    | ☉        | ☽     | ♀     | ♁      | ♂      | ♃      | ♄      | ♅       | ♆     | ♇      | ♈     | ♉    | ♊     | ♋    | ♌ | ♍ |
|-----|----------|----------|-------|-------|--------|--------|--------|--------|---------|-------|--------|-------|------|-------|------|---|---|
| M 1 | 23 24 55 | 20♃18'57 | 17♁14 | 29♃0  | 10♂♏15 | 12♂♍45 | 22♂♏54 | 10°R52 | 19♀II15 | 12♃28 | 28♂♌13 | 4°R53 | 3♁58 | 8♂21  | n.a. |   |   |
| T 2 | 23 28 51 | 21°19'45 | 1♂ 2  | 0♁33  | 11°27  | 12°46  | 23° 6  | 10°D52 | 19°15   | 12°30 | 28°13  | 4♁51  | 3°55 | 8°28  | n.a. |   |   |
| W 3 | 23 32 48 | 22°20'36 | 14°43 | 2° 6  | 12°39  | 12°R46 | 23°18  | 10♁52  | 19°16   | 12°32 | 28°13  | 4°46  | 3°52 | 8°34  | n.a. |   |   |
| T 4 | 23 36 44 | 23°21'28 | 28°15 | 3°38  | 13°51  | 12°46  | 23°31  | 10°52  | 19°17   | 12°34 | 28°13  | 4°38  | 3°49 | 8°41  | n.a. |   |   |
| F 5 | 23 40 41 | 24°22'22 | 11♃36 | 5°10  | 15° 3  | 12°44  | 23°43  | 10°52  | 19°17   | 12°37 | 28°13  | 4°27  | 3°46 | 8°48  | n.a. |   |   |
| S 6 | 23 44 37 | 25°23'17 | 24°45 | 6°42  | 16°16  | 12°42  | 23°55  | 10°53  | 19°17   | 12°39 | 28°13  | 4°13  | 3°42 | 8°54  | n.a. |   |   |
| S 7 | 23 48 34 | 26°24'13 | 7♁39  | 8°13  | 17°28  | 12°39  | 24° 7  | 10°53  | 19°18   | 12°41 | 28°14  | 3°59  | 3°39 | 9° 1  | n.a. |   |   |
| M 8 | 23 52 31 | 27°25'11 | 20°17 | 9°44  | 18°40  | 12°35  | 24°19  | 10°54  | 19°18   | 12°43 | 28°14  | 3°46  | 3°36 | 9° 8  | n.a. |   |   |
| T 9 | 23 56 27 | 28°26'10 | 2♌41  | 11°16 | 19°53  | 12°30  | 24°31  | 10°54  | 19°18   | 12°45 | 28°14  | 3°34  | 3°33 | 9°14  | n.a. |   |   |
| W10 | 0 0 24   | 29°27'10 | 14°50 | 12°46 | 21° 6  | 12°24  | 24°43  | 10°55  | 19°19   | 12°48 | 28°14  | 3°25  | 3°30 | 9°21  | n.a. |   |   |
| T11 | 0 4 20   | 0♁28'12  | 26°48 | 14°17 | 22°18  | 12°18  | 24°55  | 10°56  | 19°19   | 12°50 | 28°15  | 3°18  | 3°26 | 9°28  | n.a. |   |   |
| F12 | 0 8 17   | 1°29'14  | 8♂38  | 15°47 | 23°31  | 12°10  | 25° 7  | 10°57  | 19°19   | 12°52 | 28°15  | 3°14  | 3°23 | 9°34  | n.a. |   |   |
| S13 | 0 12 13  | 2°30'17  | 20°25 | 17°17 | 24°44  | 12° 2  | 25°19  | 10°58  | 19°R19  | 12°54 | 28°15  | 3°13  | 3°20 | 9°41  | n.a. |   |   |
| S14 | 0 16 10  | 3°31'22  | 2♁15  | 18°46 | 25°57  | 11°53  | 25°30  | 10°59  | 19°19   | 12°56 | 28°16  | 3°13  | 3°17 | 9°47  | n.a. |   |   |
| M15 | 0 20 6   | 4°32'27  | 14°12 | 20°15 | 27°10  | 11°43  | 25°42  | 11° 0  | 19°19   | 12°58 | 28°16  | 3°12  | 3°14 | 9°54  | n.a. |   |   |
| T16 | 0 24 3   | 5°33'33  | 26°23 | 21°44 | 28°23  | 11°33  | 25°54  | 11° 2  | 19°19   | 13° 1 | 28°16  | 3°11  | 3°11 | 10° 1 | n.a. |   |   |
| W17 | 0 28 0   | 6°34'39  | 8♁52  | 23°12 | 29°37  | 11°21  | 26° 5  | 11° 3  | 19°18   | 13° 3 | 28°17  | 3° 8  | 3° 7 | 10° 7 | n.a. |   |   |
| T18 | 0 31 56  | 7°35'47  | 21°44 | 24°39 | 0♃50   | 11° 9  | 26°17  | 11° 5  | 19°18   | 13° 5 | 28°17  | 3° 2  | 3° 4 | 10°14 | n.a. |   |   |
| F19 | 0 35 53  | 8°36'55  | 5♂ 1  | 26° 6 | 2° 3   | 10°55  | 26°28  | 11° 7  | 19°18   | 13° 7 | 28°18  | 2°53  | 3° 1 | 10°21 | n.a. |   |   |
| S20 | 0 39 49  | 9°38'04  | 18°45 | 27°32 | 3°17   | 10°42  | 26°39  | 11° 9  | 19°17   | 13° 9 | 28°18  | 2°42  | 2°58 | 10°27 | n.a. |   |   |
| S21 | 0 43 46  | 10°39'13 | 2♂52  | 28°56 | 4°30   | 10°27  | 26°51  | 11°11  | 19°17   | 13°11 | 28°19  | 2°30  | 2°55 | 10°34 | n.a. |   |   |
| M22 | 0 47 42  | 11°40'24 | 17°18 | 0♌20  | 5°44   | 10°11  | 27° 2  | 11°13  | 19°17   | 13°13 | 28°20  | 2°18  | 2°51 | 10°41 | n.a. |   |   |
| T23 | 0 51 39  | 12°41'35 | 1♂56  | 1°42  | 6°57   | 9°55   | 27°13  | 11°15  | 19°16   | 13°15 | 28°20  | 2° 7  | 2°48 | 10°47 | n.a. |   |   |
| W24 | 0 55 35  | 13°42'47 | 16°39 | 3° 3  | 8°11   | 9°38   | 27°24  | 11°17  | 19°15   | 13°17 | 28°21  | 1°58  | 2°45 | 10°54 | n.a. |   |   |
| T25 | 0 59 32  | 14°44'00 | 1♀18  | 4°21  | 9°25   | 9°20   | 27°35  | 11°19  | 19°15   | 13°19 | 28°21  | 1°52  | 2°42 | 11° 1 | n.a. |   |   |
| F26 | 1 3 29   | 15°45'15 | 15°49 | 5°38  | 10°39  | 9° 2   | 27°45  | 11°22  | 19°14   | 13°21 | 28°22  | 1°49  | 2°39 | 11° 7 | n.a. |   |   |
| S27 | 1 7 25   | 16°46'30 | 0♁ 6  | 6°52  | 11°52  | 8°43   | 27°56  | 11°25  | 19°13   | 13°23 | 28°23  | 1°D48 | 2°36 | 11°14 | n.a. |   |   |
| S28 | 1 11 22  | 17°47'46 | 14° 9 | 8° 3  | 13° 6  | 8°23   | 28° 7  | 11°27  | 19°13   | 13°25 | 28°24  | 1°R49 | 2°32 | 11°21 | n.a. |   |   |
| M29 | 1 15 18  | 18°49'03 | 27°57 | 9°11  | 14°20  | 8° 3   | 28°17  | 11°30  | 19°12   | 13°27 | 28°24  | 1°48  | 2°29 | 11°27 | n.a. |   |   |
| T30 | 1 19 15  | 19°50'20 | 11♂32 | 10°15 | 15°34  | 7°42   | 28°28  | 11°33  | 19°11   | 13°29 | 28°25  | 1°46  | 2°26 | 11°34 | n.a. |   |   |
| W31 | 1 23 11  | 20♁51'39 | 24♂53 | 11♌14 | 16♃48  | 7♂21   | 28♂38  | 11♁36  | 19♀II10 | 13♃31 | 28♂26  | 1♁42  | 2♁23 | 11♂41 | n.a. |   |   |

Delta T = 14h37m05s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [6.2.2007]

SWISS EPHEMERIS for the year 2160 BCE

NOVEMBER 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t   | ☉                     | ☽                   | ♀                   | ♁                   | ♂                   | ♃                   | ♅                   | ♁                   | ♄                   | ♁                   | ♁                   | ♁                  | ♁                   | ♁    |
|------|---------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|------|
| T 1  | 1 27 8  | 21 <sup>h</sup> 52'58 | 8 <sup>h</sup> 31'  | 12 <sup>h</sup> 11' | 18 <sup>h</sup> 17' | 6 <sup>h</sup> 59'  | 28 <sup>h</sup> 48' | 11 <sup>h</sup> 39' | 19 <sup>h</sup> 9'  | 13 <sup>h</sup> 33' | 28 <sup>h</sup> 27' | 1 <sup>h</sup> 35'  | 2 <sup>h</sup> 20' | 11 <sup>h</sup> 47' | n.a. |
| F 2  | 1 31 4  | 22 <sup>h</sup> 54'18 | 21 <sup>h</sup> 1'  | 12 <sup>h</sup> 56' | 19 <sup>h</sup> 17' | 6 <sup>h</sup> 37'  | 28 <sup>h</sup> 59' | 11 <sup>h</sup> 42' | 19 <sup>h</sup> 11' | 13 <sup>h</sup> 34' | 28 <sup>h</sup> 28' | 1 <sup>h</sup> 35'  | 2 <sup>h</sup> 17' | 11 <sup>h</sup> 54' | n.a. |
| S 3  | 1 35 1  | 23 <sup>h</sup> 55'38 | 3 <sup>h</sup> 48'  | 13 <sup>h</sup> 37' | 20 <sup>h</sup> 31' | 6 <sup>h</sup> 14'  | 29 <sup>h</sup> 9'  | 11 <sup>h</sup> 45' | 19 <sup>h</sup> 7'  | 13 <sup>h</sup> 36' | 28 <sup>h</sup> 28' | 1 <sup>h</sup> 12'  | 2 <sup>h</sup> 13' | 12 <sup>h</sup> 1'  | n.a. |
| S 4  | 1 38 58 | 24 <sup>h</sup> 56'59 | 16 <sup>h</sup> 23' | 14 <sup>h</sup> 11' | 21 <sup>h</sup> 45' | 5 <sup>h</sup> 51'  | 29 <sup>h</sup> 19' | 11 <sup>h</sup> 49' | 19 <sup>h</sup> 6'  | 13 <sup>h</sup> 38' | 28 <sup>h</sup> 29' | 1 <sup>h</sup> 0'   | 2 <sup>h</sup> 10' | 12 <sup>h</sup> 7'  | n.a. |
| M 5  | 1 42 54 | 25 <sup>h</sup> 58'20 | 28 <sup>h</sup> 47' | 14 <sup>h</sup> 36' | 22 <sup>h</sup> 59' | 5 <sup>h</sup> 28'  | 29 <sup>h</sup> 29' | 11 <sup>h</sup> 52' | 19 <sup>h</sup> 4'  | 13 <sup>h</sup> 40' | 28 <sup>h</sup> 30' | 0 <sup>h</sup> 47'  | 2 <sup>h</sup> 7'  | 12 <sup>h</sup> 14' | n.a. |
| T 6  | 1 46 51 | 26 <sup>h</sup> 59'41 | 10 <sup>h</sup> 11' | 14 <sup>h</sup> 52' | 24 <sup>h</sup> 14' | 5 <sup>h</sup> 5'   | 29 <sup>h</sup> 38' | 11 <sup>h</sup> 56' | 19 <sup>h</sup> 3'  | 13 <sup>h</sup> 42' | 28 <sup>h</sup> 31' | 0 <sup>h</sup> 36'  | 2 <sup>h</sup> 4'  | 12 <sup>h</sup> 21' | n.a. |
| W 7  | 1 50 47 | 28 <sup>h</sup> 1'03  | 23 <sup>h</sup> 2'  | 14 <sup>h</sup> 57' | 25 <sup>h</sup> 28' | 4 <sup>h</sup> 41'  | 29 <sup>h</sup> 48' | 11 <sup>h</sup> 59' | 19 <sup>h</sup> 2'  | 13 <sup>h</sup> 43' | 28 <sup>h</sup> 32' | 0 <sup>h</sup> 27'  | 2 <sup>h</sup> 1'  | 12 <sup>h</sup> 27' | n.a. |
| T 8  | 1 54 44 | 29 <sup>h</sup> 2'24  | 4 <sup>h</sup> 56'  | 14 <sup>h</sup> 52' | 26 <sup>h</sup> 42' | 4 <sup>h</sup> 17'  | 29 <sup>h</sup> 58' | 12 <sup>h</sup> 3'  | 19 <sup>h</sup> 0'  | 13 <sup>h</sup> 45' | 28 <sup>h</sup> 33' | 0 <sup>h</sup> 21'  | 1 <sup>h</sup> 57' | 12 <sup>h</sup> 34' | n.a. |
| F 9  | 1 58 40 | 0 <sup>h</sup> 11'36  | 16 <sup>h</sup> 44' | 14 <sup>h</sup> 34' | 27 <sup>h</sup> 57' | 3 <sup>h</sup> 53'  | 0 <sup>h</sup> 11'7 | 12 <sup>h</sup> 7'  | 18 <sup>h</sup> 59' | 13 <sup>h</sup> 47' | 28 <sup>h</sup> 34' | 0 <sup>h</sup> 17'  | 1 <sup>h</sup> 54' | 12 <sup>h</sup> 41' | n.a. |
| S 10 | 2 2 37  | 1 <sup>h</sup> 5'07   | 28 <sup>h</sup> 30' | 14 <sup>h</sup> 5'  | 29 <sup>h</sup> 11' | 3 <sup>h</sup> 29'  | 0 <sup>h</sup> 16'  | 12 <sup>h</sup> 11' | 18 <sup>h</sup> 57' | 13 <sup>h</sup> 49' | 28 <sup>h</sup> 35' | 0 <sup>h</sup> D16  | 1 <sup>h</sup> 51' | 12 <sup>h</sup> 47' | n.a. |
| S 11 | 2 6 33  | 2 <sup>h</sup> 6'29   | 10 <sup>h</sup> 31' | 13 <sup>h</sup> 25' | 0 <sup>h</sup> 25'  | 3 <sup>h</sup> 5'   | 0 <sup>h</sup> 26'  | 12 <sup>h</sup> 15' | 18 <sup>h</sup> 56' | 13 <sup>h</sup> 50' | 28 <sup>h</sup> 36' | 0 <sup>h</sup> 17'  | 1 <sup>h</sup> 48' | 12 <sup>h</sup> 54' | n.a. |
| M12  | 2 10 30 | 3 <sup>h</sup> 7'50   | 22 <sup>h</sup> 13' | 12 <sup>h</sup> 33' | 1 <sup>h</sup> 40'  | 2 <sup>h</sup> 41'  | 0 <sup>h</sup> 35'  | 12 <sup>h</sup> 19' | 18 <sup>h</sup> 54' | 13 <sup>h</sup> 52' | 28 <sup>h</sup> 37' | 0 <sup>h</sup> 18'  | 1 <sup>h</sup> 45' | 13 <sup>h</sup> 1'  | n.a. |
| T 13 | 2 14 27 | 4 <sup>h</sup> 9'10   | 4 <sup>h</sup> 20'  | 11 <sup>h</sup> 31' | 2 <sup>h</sup> 54'  | 2 <sup>h</sup> 17'  | 0 <sup>h</sup> 44'  | 12 <sup>h</sup> 23' | 18 <sup>h</sup> 53' | 13 <sup>h</sup> 53' | 28 <sup>h</sup> 39' | 0 <sup>h</sup> R18  | 1 <sup>h</sup> 42' | 13 <sup>h</sup> 7'  | n.a. |
| W14  | 2 18 23 | 5 <sup>h</sup> 10'31  | 16 <sup>h</sup> 45' | 10 <sup>h</sup> 21' | 4 <sup>h</sup> 9'   | 1 <sup>h</sup> 53'  | 0 <sup>h</sup> 53'  | 12 <sup>h</sup> 28' | 18 <sup>h</sup> 51' | 13 <sup>h</sup> 55' | 28 <sup>h</sup> 40' | 0 <sup>h</sup> 17'  | 1 <sup>h</sup> 38' | 13 <sup>h</sup> 14' | n.a. |
| T 15 | 2 22 20 | 6 <sup>h</sup> 11'50  | 29 <sup>h</sup> 33' | 9 <sup>h</sup> 5'   | 5 <sup>h</sup> 23'  | 1 <sup>h</sup> 29'  | 1 <sup>h</sup> 1'   | 12 <sup>h</sup> 32' | 18 <sup>h</sup> 50' | 13 <sup>h</sup> 57' | 28 <sup>h</sup> 41' | 0 <sup>h</sup> 14'  | 1 <sup>h</sup> 35' | 13 <sup>h</sup> 20' | n.a. |
| F 16 | 2 26 16 | 7 <sup>h</sup> 13'10  | 12 <sup>h</sup> 48' | 7 <sup>h</sup> 45'  | 6 <sup>h</sup> 38'  | 1 <sup>h</sup> 6'   | 1 <sup>h</sup> 10'  | 12 <sup>h</sup> 36' | 18 <sup>h</sup> 48' | 13 <sup>h</sup> 58' | 28 <sup>h</sup> 42' | 0 <sup>h</sup> 9'   | 1 <sup>h</sup> 32' | 13 <sup>h</sup> 27' | n.a. |
| S 17 | 2 30 13 | 8 <sup>h</sup> 14'29  | 26 <sup>h</sup> 32' | 6 <sup>h</sup> 23'  | 7 <sup>h</sup> 52'  | 0 <sup>h</sup> 43'  | 1 <sup>h</sup> 19'  | 12 <sup>h</sup> 41' | 18 <sup>h</sup> 46' | 14 <sup>h</sup> 0'  | 28 <sup>h</sup> 43' | 0 <sup>h</sup> 2'   | 1 <sup>h</sup> 29' | 13 <sup>h</sup> 34' | n.a. |
| S 18 | 2 34 9  | 9 <sup>h</sup> 15'47  | 10 <sup>h</sup> 44' | 5 <sup>h</sup> 4'   | 9 <sup>h</sup> 7'   | 0 <sup>h</sup> 20'  | 1 <sup>h</sup> 27'  | 12 <sup>h</sup> 46' | 18 <sup>h</sup> 44' | 14 <sup>h</sup> 1'  | 28 <sup>h</sup> 44' | 29 <sup>h</sup> 54' | 1 <sup>h</sup> 26' | 13 <sup>h</sup> 40' | n.a. |
| M19  | 2 38 6  | 10 <sup>h</sup> 17'05 | 25 <sup>h</sup> 21' | 3 <sup>h</sup> 48'  | 10 <sup>h</sup> 22' | 29 <sup>h</sup> 58' | 1 <sup>h</sup> 35'  | 12 <sup>h</sup> 50' | 18 <sup>h</sup> 42' | 14 <sup>h</sup> 3'  | 28 <sup>h</sup> 46' | 29 <sup>h</sup> 46' | 1 <sup>h</sup> 23' | 13 <sup>h</sup> 47' | n.a. |
| T 20 | 2 42 2  | 11 <sup>h</sup> 18'23 | 10 <sup>h</sup> 17' | 2 <sup>h</sup> 38'  | 11 <sup>h</sup> 36' | 29 <sup>h</sup> 36' | 1 <sup>h</sup> 43'  | 12 <sup>h</sup> 55' | 18 <sup>h</sup> 40' | 14 <sup>h</sup> 4'  | 28 <sup>h</sup> 47' | 29 <sup>h</sup> 38' | 1 <sup>h</sup> 19' | 13 <sup>h</sup> 54' | n.a. |
| W21  | 2 45 59 | 12 <sup>h</sup> 19'40 | 25 <sup>h</sup> 21' | 1 <sup>h</sup> 37'  | 12 <sup>h</sup> 51' | 29 <sup>h</sup> 14' | 1 <sup>h</sup> 51'  | 13 <sup>h</sup> 0'  | 18 <sup>h</sup> 39' | 14 <sup>h</sup> 5'  | 28 <sup>h</sup> 48' | 29 <sup>h</sup> 32' | 1 <sup>h</sup> 16' | 14 <sup>h</sup> 0'  | n.a. |
| T 22 | 2 49 55 | 13 <sup>h</sup> 20'57 | 10 <sup>h</sup> 12' | 0 <sup>h</sup> 44'  | 14 <sup>h</sup> 5'  | 28 <sup>h</sup> 53' | 1 <sup>h</sup> 59'  | 13 <sup>h</sup> 5'  | 18 <sup>h</sup> 37' | 14 <sup>h</sup> 7'  | 28 <sup>h</sup> 49' | 29 <sup>h</sup> 28' | 1 <sup>h</sup> 13' | 14 <sup>h</sup> 7'  | n.a. |
| F 23 | 2 53 52 | 14 <sup>h</sup> 22'14 | 25 <sup>h</sup> 20' | 0 <sup>h</sup> 1'   | 15 <sup>h</sup> 20' | 28 <sup>h</sup> 32' | 2 <sup>h</sup> 7'   | 13 <sup>h</sup> 10' | 18 <sup>h</sup> 35' | 14 <sup>h</sup> 8'  | 28 <sup>h</sup> 51' | 29 <sup>h</sup> D27 | 1 <sup>h</sup> 10' | 14 <sup>h</sup> 14' | n.a. |
| S 24 | 2 57 49 | 15 <sup>h</sup> 23'31 | 9 <sup>h</sup> 59'  | 29 <sup>h</sup> 27' | 16 <sup>h</sup> 35' | 28 <sup>h</sup> 12' | 2 <sup>h</sup> 15'  | 13 <sup>h</sup> 15' | 18 <sup>h</sup> 33' | 14 <sup>h</sup> 9'  | 28 <sup>h</sup> 52' | 29 <sup>h</sup> 27' | 1 <sup>h</sup> 7'  | 14 <sup>h</sup> 20' | n.a. |
| S 25 | 3 1 45  | 16 <sup>h</sup> 24'47 | 24 <sup>h</sup> 18' | 29 <sup>h</sup> 4'  | 17 <sup>h</sup> 49' | 27 <sup>h</sup> 53' | 2 <sup>h</sup> 22'  | 13 <sup>h</sup> 20' | 18 <sup>h</sup> 30' | 14 <sup>h</sup> 11' | 28 <sup>h</sup> 53' | 29 <sup>h</sup> 29' | 1 <sup>h</sup> 3'  | 14 <sup>h</sup> 27' | n.a. |
| M26  | 3 5 42  | 17 <sup>h</sup> 26'03 | 8 <sup>h</sup> 15'  | 28 <sup>h</sup> 51' | 19 <sup>h</sup> 4'  | 27 <sup>h</sup> 34' | 2 <sup>h</sup> 29'  | 13 <sup>h</sup> 25' | 18 <sup>h</sup> 28' | 14 <sup>h</sup> 12' | 28 <sup>h</sup> 55' | 29 <sup>h</sup> 30' | 1 <sup>h</sup> 0'  | 14 <sup>h</sup> 34' | n.a. |
| T 27 | 3 9 38  | 18 <sup>h</sup> 27'18 | 21 <sup>h</sup> 50' | 28 <sup>h</sup> D46 | 20 <sup>h</sup> 19' | 27 <sup>h</sup> 16' | 2 <sup>h</sup> 37'  | 13 <sup>h</sup> 31' | 18 <sup>h</sup> 26' | 14 <sup>h</sup> 13' | 28 <sup>h</sup> 56' | 29 <sup>h</sup> R30 | 0 <sup>h</sup> 57' | 14 <sup>h</sup> 40' | n.a. |
| W28  | 3 13 35 | 19 <sup>h</sup> 28'34 | 5 <sup>h</sup> 11'  | 28 <sup>h</sup> 50' | 21 <sup>h</sup> 33' | 26 <sup>h</sup> 58' | 2 <sup>h</sup> 44'  | 13 <sup>h</sup> 36' | 18 <sup>h</sup> 24' | 14 <sup>h</sup> 14' | 28 <sup>h</sup> 57' | 29 <sup>h</sup> 29' | 0 <sup>h</sup> 54' | 14 <sup>h</sup> 47' | n.a. |
| T 29 | 3 17 31 | 20 <sup>h</sup> 29'48 | 18 <sup>h</sup> 3'  | 29 <sup>h</sup> 3'  | 22 <sup>h</sup> 48' | 26 <sup>h</sup> 42' | 2 <sup>h</sup> 51'  | 13 <sup>h</sup> 41' | 18 <sup>h</sup> 22' | 14 <sup>h</sup> 16' | 28 <sup>h</sup> 59' | 29 <sup>h</sup> 26' | 0 <sup>h</sup> 51' | 14 <sup>h</sup> 54' | n.a. |
| F 30 | 3 21 28 | 21 <sup>h</sup> 31'02 | 0 <sup>h</sup> 46'  | 29 <sup>h</sup> 22' | 24 <sup>h</sup> 3'  | 26 <sup>h</sup> 25' | 2 <sup>h</sup> 57'  | 13 <sup>h</sup> 47' | 18 <sup>h</sup> 20' | 14 <sup>h</sup> 17' | 29 <sup>h</sup> 0'  | 29 <sup>h</sup> 21' | 0 <sup>h</sup> 48' | 15 <sup>h</sup> 0'  | n.a. |

Delta T = 14h37m03s Julian Calendar 1 Nov. 2160 BCE == Greg. Calendar 14 Oct. 2160 BCE  
 The year -2159 astronomical counting style corresponds to year 2160 B.C.E historical counting style.

DECEMBER 2160 BCE (-2159) JC

00:00 UT

| Day  | Sid.t   | ☉                      | ☽                   | ♀                   | ♁                   | ♂                   | ♃                   | ♅                   | ♁                   | ♄                   | ♁                   | ♁                   | ♁                   | ♁                   | ♁    |
|------|---------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|
| S 1  | 3 25 24 | 22 <sup>h</sup> 132'16 | 13 <sup>h</sup> 15' | 29 <sup>h</sup> 48' | 25 <sup>h</sup> 18' | 26 <sup>h</sup> R10 | 3 <sup>h</sup> 11'4 | 13 <sup>h</sup> 53' | 18 <sup>h</sup> R17 | 14 <sup>h</sup> 18' | 29 <sup>h</sup> 2   | 29 <sup>h</sup> R14 | 0 <sup>h</sup> 44'  | 15 <sup>h</sup> 7'  | n.a. |
| S 2  | 3 29 21 | 23 <sup>h</sup> 33'29  | 25 <sup>h</sup> 34' | 0 <sup>h</sup> 11'  | 26 <sup>h</sup> 32' | 25 <sup>h</sup> 55' | 3 <sup>h</sup> 11'  | 13 <sup>h</sup> 58' | 18 <sup>h</sup> 15' | 14 <sup>h</sup> 19' | 29 <sup>h</sup> 3   | 29 <sup>h</sup> 8'  | 0 <sup>h</sup> 41'  | 15 <sup>h</sup> 14' | n.a. |
| M 3  | 3 33 18 | 24 <sup>h</sup> 34'41  | 7 <sup>h</sup> 14'  | 0 <sup>h</sup> 58'  | 27 <sup>h</sup> 47' | 25 <sup>h</sup> 41' | 3 <sup>h</sup> 17'  | 14 <sup>h</sup> 4'  | 18 <sup>h</sup> 13' | 14 <sup>h</sup> 20' | 29 <sup>h</sup> 5   | 29 <sup>h</sup> 1'  | 0 <sup>h</sup> 38'  | 15 <sup>h</sup> 20' | n.a. |
| T 4  | 3 37 14 | 25 <sup>h</sup> 35'53  | 19 <sup>h</sup> 43' | 1 <sup>h</sup> 41'  | 29 <sup>h</sup> 2'  | 25 <sup>h</sup> 28' | 3 <sup>h</sup> 23'  | 14 <sup>h</sup> 10' | 18 <sup>h</sup> 10' | 14 <sup>h</sup> 21' | 29 <sup>h</sup> 6'  | 28 <sup>h</sup> 55' | 0 <sup>h</sup> 35'  | 15 <sup>h</sup> 27' | n.a. |
| W 5  | 3 41 11 | 26 <sup>h</sup> 37'04  | 1 <sup>h</sup> 38'  | 2 <sup>h</sup> 28'  | 0 <sup>h</sup> 16'  | 25 <sup>h</sup> 16' | 3 <sup>h</sup> 29'  | 14 <sup>h</sup> 16' | 18 <sup>h</sup> 8'  | 14 <sup>h</sup> 22' | 29 <sup>h</sup> 8'  | 28 <sup>h</sup> 50' | 0 <sup>h</sup> 32'  | 15 <sup>h</sup> 34' | n.a. |
| T 6  | 3 45 7  | 27 <sup>h</sup> 38'13  | 13 <sup>h</sup> 27' | 3 <sup>h</sup> 19'  | 1 <sup>h</sup> 31'  | 25 <sup>h</sup> 4'  | 3 <sup>h</sup> 35'  | 14 <sup>h</sup> 22' | 18 <sup>h</sup> 6'  | 14 <sup>h</sup> 23' | 29 <sup>h</sup> 9'  | 28 <sup>h</sup> 47' | 0 <sup>h</sup> 29'  | 15 <sup>h</sup> 40' | n.a. |
| F 7  | 3 49 4  | 28 <sup>h</sup> 39'22  | 25 <sup>h</sup> 14' | 4 <sup>h</sup> 14'  | 2 <sup>h</sup> 46'  | 24 <sup>h</sup> 53' | 3 <sup>h</sup> 41'  | 14 <sup>h</sup> 28' | 18 <sup>h</sup> 3'  | 14 <sup>h</sup> 24' | 29 <sup>h</sup> 11' | 28 <sup>h</sup> D46 | 0 <sup>h</sup> 25'  | 15 <sup>h</sup> 47' | n.a. |
| S 8  | 3 53 0  | 29 <sup>h</sup> 40'29  | 7 <sup>h</sup> 31'  | 5 <sup>h</sup> 12'  | 4 <sup>h</sup> 1'   | 24 <sup>h</sup> 44' | 3 <sup>h</sup> 46'  | 14 <sup>h</sup> 34' | 18 <sup>h</sup> 1'  | 14 <sup>h</sup> 25' | 29 <sup>h</sup> 12' | 28 <sup>h</sup> 46' | 0 <sup>h</sup> 22'  | 15 <sup>h</sup> 53' | n.a. |
| S 9  | 3 56 57 | 0 <sup>h</sup> 41'36   | 18 <sup>h</sup> 50' | 6 <sup>h</sup> 13'  | 5 <sup>h</sup> 15'  | 24 <sup>h</sup> 34' | 3 <sup>h</sup> 52'  | 14 <sup>h</sup> 40' | 17 <sup>h</sup> 58' | 14 <sup>h</sup> 26' | 29 <sup>h</sup> 14' | 28 <sup>h</sup> 48' | 0 <sup>h</sup> 19'  | 16 <sup>h</sup> 0'  | n.a. |
| M10  | 4 0 54  | 1 <sup>h</sup> 42'40   | 0 <sup>h</sup> 47'  | 7 <sup>h</sup> 17'  | 6 <sup>h</sup> 30'  | 24 <sup>h</sup> 26' | 3 <sup>h</sup> 57'  | 14 <sup>h</sup> 46' | 17 <sup>h</sup> 56' | 14 <sup>h</sup> 26' | 29 <sup>h</sup> 15' | 28 <sup>h</sup> 50' | 0 <sup>h</sup> 16'  | 16 <sup>h</sup> 7'  | n.a. |
| T 11 | 4 4 50  | 2 <sup>h</sup> 43'44   | 12 <sup>h</sup> 54' | 8 <sup>h</sup> 23'  | 7 <sup>h</sup> 45'  | 24 <sup>h</sup> 19' | 4 <sup>h</sup> 2'   | 14 <sup>h</sup> 52' | 17 <sup>h</sup> 53' | 14 <sup>h</sup> 27' | 29 <sup>h</sup> 17' | 28 <sup>h</sup> 51' | 0 <sup>h</sup> 13'  | 16 <sup>h</sup> 13' | n.a. |
| W12  | 4 8 47  | 3 <sup>h</sup> 44'46   | 25 <sup>h</sup> 17' | 9 <sup>h</sup> 31'  | 8 <sup>h</sup> 59'  | 24 <sup>h</sup> 12' | 4 <sup>h</sup> 7'   | 14 <sup>h</sup> 58' | 17 <sup>h</sup> 51' | 14 <sup>h</sup> 28' | 29 <sup>h</sup> 18' | 28 <sup>h</sup> 53' | 0 <sup>h</sup> 9'   | 16 <sup>h</sup> 20' | n.a. |
| T 13 | 4 12 43 | 4 <sup>h</sup> 45'46   | 8 <sup>h</sup> 31'  | 10 <sup>h</sup> 42' | 10 <sup>h</sup> 14' | 24 <sup>h</sup> 6'  | 4 <sup>h</sup> 11'  | 15 <sup>h</sup> 5'  | 17 <sup>h</sup> 48' | 14 <sup>h</sup> 29' | 29 <sup>h</sup> 20' | 28 <sup>h</sup> R53 | 0 <sup>h</sup> 6'   | 16 <sup>h</sup> 27' | n.a. |
| F 14 | 4 16 40 | 5 <sup>h</sup> 46'45   | 21 <sup>h</sup> 7'  | 11 <sup>h</sup> 54' | 11 <sup>h</sup> 29' | 24 <sup>h</sup> 1'  | 4 <sup>h</sup> 16'  | 15 <sup>h</sup> 11' | 17 <sup>h</sup> 46' | 14 <sup>h</sup> 29' | 29 <sup>h</sup> 22' | 28 <sup>h</sup> 52' | 0 <sup>h</sup> 3'   | 16 <sup>h</sup> 33' | n.a. |
| S 15 | 4 20 36 | 6 <sup>h</sup> 47'43   | 4 <sup>h</sup> 41'  | 13 <sup>h</sup> 8'  | 12 <sup>h</sup> 43' | 23 <sup>h</sup> 57' | 4 <sup>h</sup> 20'  | 15 <sup>h</sup> 18' | 17 <sup>h</sup> 43' | 14 <sup>h</sup> 30' | 29 <sup>h</sup> 23' | 28 <sup>h</sup> 50' | 0 <sup>h</sup> 0'   | 16 <sup>h</sup> 40' | n.a. |
| S 16 | 4 24 33 | 7 <sup>h</sup> 48'38   | 18 <sup>h</sup> 44' | 14 <sup>h</sup> 23' | 13 <sup>h</sup> 58' | 23 <sup>h</sup> 53' | 4 <sup>h</sup> 25'  | 15 <sup>h</sup> 24' | 17 <sup>h</sup> 41' | 14 <sup>h</sup> 31' | 29 <sup>h</sup> 25' | 28 <sup>h</sup> 47' | 29 <sup>h</sup> 57' | 16 <sup>h</sup> 47' | n.a. |
| M17  | 4 28 29 | 8 <sup>h</sup> 49'32   | 3 <sup>h</sup> 15'  | 15 <sup>h</sup> 40' | 15 <sup>h</sup> 13' | 23 <sup>h</sup> 51' | 4 <sup>h</sup> 29'  | 15 <sup>h</sup> 31' | 17 <sup>h</sup> 38' | 14 <sup>h</sup> 31' | 29 <sup>h</sup> 26' | 28 <sup>h</sup> 45' | 29 <sup>h</sup> 54' | 16 <sup>h</sup> 53' | n.a. |
| T 18 | 4 32 26 | 9 <sup>h</sup> 50'25   | 18 <sup>h</sup> 8'  | 16 <sup>h</sup> 59' | 16 <sup>h</sup> 27' | 23 <sup>h</sup> 49' | 4 <sup>h</sup> 32'  | 15 <sup>h</sup> 37' | 17 <sup>h</sup> 35' | 14 <sup>h</sup> 32' | 29 <sup>h</sup> 28' | 28 <sup>h</sup> 42' | 29 <sup>h</sup> 50' | 17 <sup>h</sup> 0'  | n.a. |
| W19  | 4 36 22 | 10 <sup>h</sup> 51'16  | 3 <sup>h</sup> 11'  | 18 <sup>h</sup> 19' | 17 <sup>h</sup> 42' | 23 <sup>h</sup> 48' | 4 <sup>h</sup> 36'  | 15 <sup>h</sup> 44' | 17 <sup>h</sup> 33' | 14 <sup>h</sup> 32' | 29 <sup>h</sup> 30' | 28 <sup>h</sup> 40' | 29 <sup>h</sup> 47' | 17 <sup>h</sup> 7'  | n.a. |
| T 20 | 4 40 19 | 11 <sup>h</sup> 52'06  | 18 <sup>h</sup> 32' | 19 <sup>h</sup> 39' | 18 <sup>h</sup> 57' | 23 <sup>h</sup> D47 | 4 <sup>h</sup> 40'  | 15 <sup>h</sup> 51' |                     |                     |                     |                     |                     |                     |      |