

SWISS EPHEMERIS for the year 2021 BCE

JANUARY 2021 BCE (-2020) JC

00:00 UT

| Day | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃     | ♄     | ♅     | ♆     | ♇      | ♁      | ♂      | ♁     | ♃     | ♄    |
|-----|---------|----------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|------|
| S 1 | 5 29 43 | 24♌26°06 | 22♍11 | 6♋5   | 21♊34 | 29♉8  | 10♈32 | 12♇9  | 9♆34  | 17°R37 | 27°R48 | 28°R22 | 29♄48 | 24♃45 | n.a. |
| S 2 | 5 33 39 | 25°26'39 | 4♌44  | 7°37  | 22°47 | 29°51 | 10°34 | 12°13 | 9°36  | 17♄35  | 27♃47  | 28♂22  | 29°45 | 24°52 | n.a. |
| M 3 | 5 37 36 | 26°27'10 | 17°40 | 9°9   | 24°1  | 0♌33  | 10°36 | 12°16 | 9°39  | 17°34  | 27°46  | 28°20  | 29°42 | 24°59 | n.a. |
| T 4 | 5 41 33 | 27°27'40 | 1♌2   | 10°42 | 25°15 | 1°16  | 10°39 | 12°20 | 9°42  | 17°32  | 27°44  | 28°17  | 29°38 | 25°5  | n.a. |
| W 5 | 5 45 29 | 28°28'09 | 14°53 | 12°16 | 26°29 | 1°59  | 10°41 | 12°23 | 9°44  | 17°30  | 27°43  | 28°13  | 29°35 | 25°12 | n.a. |
| T 6 | 5 49 26 | 29°28'36 | 29°11 | 13°51 | 27°43 | 2°41  | 10°44 | 12°26 | 9°47  | 17°29  | 27°42  | 28°8   | 29°32 | 25°19 | n.a. |
| F 7 | 5 53 22 | 0♋29°01  | 13♌53 | 15°27 | 28°56 | 3°24  | 10°47 | 12°29 | 9°50  | 17°27  | 27°41  | 28°4   | 29°29 | 25°25 | n.a. |
| S 8 | 5 57 19 | 1°29'24  | 28°51 | 17°4  | 0♌10  | 4°7   | 10°50 | 12°32 | 9°53  | 17°26  | 27°40  | 28°1   | 29°26 | 25°32 | n.a. |
| S 9 | 6 1 15  | 2°29'46  | 13♌58 | 18°42 | 1°24  | 4°50  | 10°53 | 12°35 | 9°56  | 17°24  | 27°39  | 27°59  | 29°22 | 25°39 | n.a. |
| M10 | 6 5 12  | 3°30'05  | 29°3  | 20°21 | 2°37  | 5°32  | 10°57 | 12°38 | 9°59  | 17°23  | 27°38  | 27°D58 | 29°19 | 25°45 | n.a. |
| T11 | 6 9 8   | 4°30'23  | 13♌59 | 22°1  | 3°51  | 6°15  | 11°0  | 12°40 | 10°1  | 17°21  | 27°37  | 27°59  | 29°16 | 25°52 | n.a. |
| W12 | 6 13 5  | 5°30'38  | 28°38 | 23°41 | 5°4   | 6°58  | 11°4  | 12°43 | 10°4  | 17°19  | 27°36  | 28°0   | 29°13 | 25°58 | n.a. |
| T13 | 6 17 2  | 6°30'51  | 12♌56 | 25°23 | 6°17  | 7°41  | 11°8  | 12°46 | 10°7  | 17°18  | 27°35  | 28°2   | 29°10 | 26°5  | n.a. |
| F14 | 6 20 58 | 7°31'01  | 26°51 | 27°6  | 7°31  | 8°23  | 11°12 | 12°48 | 10°10 | 17°16  | 27°34  | 28°3   | 29°7  | 26°12 | n.a. |
| S15 | 6 24 55 | 8°31'09  | 10♈23 | 28°50 | 8°44  | 9°6   | 11°17 | 12°50 | 10°13 | 17°14  | 27°33  | 28°R3  | 29°3  | 26°18 | n.a. |
| S16 | 6 28 51 | 9°31'15  | 23°34 | 0♋34  | 9°57  | 9°49  | 11°21 | 12°53 | 10°16 | 17°13  | 27°32  | 28°3   | 29°0  | 26°25 | n.a. |
| M17 | 6 32 48 | 10°31'19 | 6♌25  | 2°20  | 11°10 | 10°32 | 11°26 | 12°55 | 10°19 | 17°11  | 27°31  | 28°1   | 28°57 | 26°32 | n.a. |
| T18 | 6 36 44 | 11°31'20 | 19°1  | 4°7   | 12°24 | 11°15 | 11°31 | 12°57 | 10°22 | 17°9   | 27°30  | 27°59  | 28°54 | 26°38 | n.a. |
| W19 | 6 40 41 | 12°31'19 | 1♌22  | 5°55  | 13°37 | 11°58 | 11°36 | 12°59 | 10°26 | 17°8   | 27°30  | 27°57  | 28°51 | 26°45 | n.a. |
| T20 | 6 44 37 | 13°31'15 | 13°33 | 7°44  | 14°50 | 12°41 | 11°41 | 13°1  | 10°29 | 17°6   | 27°29  | 27°54  | 28°48 | 26°52 | n.a. |
| F21 | 6 48 34 | 14°31'10 | 25°35 | 9°35  | 16°3  | 13°24 | 11°47 | 13°2  | 10°32 | 17°5   | 27°28  | 27°52  | 28°44 | 26°58 | n.a. |
| S22 | 6 52 31 | 15°31'02 | 7♌30  | 11°26 | 17°15 | 14°7  | 11°52 | 13°4  | 10°35 | 17°3   | 27°27  | 27°51  | 28°41 | 27°5  | n.a. |
| S23 | 6 56 27 | 16°30'52 | 19°20 | 13°18 | 18°28 | 14°50 | 11°58 | 13°6  | 10°38 | 17°1   | 27°26  | 27°50  | 28°38 | 27°12 | n.a. |
| M24 | 7 0 24  | 17°30'40 | 1♌8   | 15°12 | 19°41 | 15°32 | 12°4  | 13°7  | 10°41 | 17°0   | 27°25  | 27°D50 | 28°35 | 27°18 | n.a. |
| T25 | 7 4 20  | 18°30'26 | 12°56 | 17°6  | 20°54 | 16°15 | 12°10 | 13°8  | 10°45 | 16°58  | 27°25  | 27°50  | 28°32 | 27°25 | n.a. |
| W26 | 7 8 17  | 19°30'10 | 24°46 | 19°2  | 22°6  | 16°58 | 12°16 | 13°10 | 10°48 | 16°56  | 27°24  | 27°51  | 28°28 | 27°32 | n.a. |
| T27 | 7 12 13 | 20°29'51 | 6♌41  | 20°58 | 23°19 | 17°41 | 12°22 | 13°11 | 10°51 | 16°55  | 27°23  | 27°52  | 28°25 | 27°38 | n.a. |
| F28 | 7 16 10 | 21°29'31 | 18°45 | 22°55 | 24°31 | 18°24 | 12°29 | 13°12 | 10°54 | 16°53  | 27°23  | 27°53  | 28°22 | 27°45 | n.a. |
| S29 | 7 20 6  | 22°29'09 | 1♌0   | 24°53 | 25°44 | 19°8  | 12°36 | 13°13 | 10°58 | 16°51  | 27°22  | 27°53  | 28°19 | 27°51 | n.a. |
| S30 | 7 24 3  | 23°28'44 | 13°32 | 26°52 | 26°56 | 19°51 | 12°42 | 13°14 | 11°1  | 16°50  | 27°21  | 27°54  | 28°16 | 27°58 | n.a. |
| M31 | 7 28 0  | 24♌28'18 | 26♌24 | 28♌51 | 28♌8  | 20♌34 | 12♈49 | 13♇15 | 11♆4  | 16♄48  | 27♃21  | 27°R54 | 28♂13 | 28♂5  | n.a. |

Delta T = 13h35m51s Julian Calendar 1 Jan. 2021 BCE == Greg. Calendar 15 Dec. 2022 BCE  
 The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

FEBRUARY 2021 BCE (-2020) JC

00:00 UT

| Day | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃     | ♄     | ♅      | ♆     | ♇      | ♁      | ♂      | ♁     | ♃     | ♄    |
|-----|---------|----------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|
| T 1 | 7 31 56 | 25♌27°50 | 9♌38  | 0♌51  | 29♌20 | 21♌17 | 12♈57 | 13♇15  | 11♆7  | 16°R46 | 27°R20 | 27°R54 | 28♂9  | 28♂11 | n.a. |
| W 2 | 7 35 53 | 26°27'20 | 23°19 | 2°51  | 0♌32  | 22°0  | 13°4  | 13°16  | 11°11 | 16♄45  | 27♃19  | 27♂53  | 28°6  | 28°18 | n.a. |
| T 3 | 7 39 49 | 27°26'48 | 7♌27  | 4°51  | 1°44  | 22°43 | 13°11 | 13°16  | 11°14 | 16°43  | 27°19  | 27°D53 | 28°3  | 28°25 | n.a. |
| F 4 | 7 43 46 | 28°26'14 | 21°59 | 6°50  | 2°56  | 23°26 | 13°19 | 13°17  | 11°17 | 16°41  | 27°18  | 27°53  | 28°0  | 28°31 | n.a. |
| S 5 | 7 47 42 | 29°25'39 | 6♌52  | 8°49  | 4°8   | 24°9  | 13°27 | 13°17  | 11°21 | 16°40  | 27°18  | 27°53  | 27°57 | 28°38 | n.a. |
| S 6 | 7 51 39 | 0♌25°01  | 22°0  | 10°48 | 5°20  | 24°52 | 13°34 | 13°17  | 11°24 | 16°38  | 27°17  | 27°R53 | 27°53 | 28°45 | n.a. |
| M 7 | 7 55 35 | 1°24'21  | 7♌13  | 12°44 | 6°32  | 25°35 | 13°42 | 13°R17 | 11°28 | 16°37  | 27°17  | 27°53  | 27°50 | 28°51 | n.a. |
| T 8 | 7 59 32 | 2°23'38  | 22°21 | 14°40 | 7°44  | 26°18 | 13°51 | 13°17  | 11°31 | 16°35  | 27°16  | 27°53  | 27°47 | 28°58 | n.a. |
| W 9 | 8 3 29  | 3°22'54  | 7♌17  | 16°33 | 8°55  | 27°1  | 13°59 | 13°17  | 11°34 | 16°33  | 27°16  | 27°53  | 27°44 | 29°5  | n.a. |
| T10 | 8 7 25  | 4°22'06  | 21°51 | 18°24 | 10°7  | 27°44 | 14°7  | 13°17  | 11°38 | 16°32  | 27°15  | 27°52  | 27°41 | 29°11 | n.a. |
| F11 | 8 11 22 | 5°21'17  | 6♈0   | 20°12 | 11°18 | 28°28 | 14°16 | 13°17  | 11°41 | 16°30  | 27°15  | 27°51  | 27°38 | 29°18 | n.a. |
| S12 | 8 15 18 | 6°20'25  | 19°42 | 21°57 | 12°29 | 29°11 | 14°24 | 13°16  | 11°44 | 16°29  | 27°15  | 27°51  | 27°34 | 29°24 | n.a. |
| S13 | 8 19 15 | 7°19'30  | 2♌58  | 23°39 | 13°40 | 29°54 | 14°33 | 13°16  | 11°48 | 16°27  | 27°14  | 27°D50 | 27°31 | 29°31 | n.a. |
| M14 | 8 23 11 | 8°18'33  | 15°49 | 25°16 | 14°51 | 0♌37  | 14°42 | 13°15  | 11°51 | 16°26  | 27°14  | 27°50  | 27°28 | 29°38 | n.a. |
| T15 | 8 27 8  | 9°17'33  | 28°21 | 26°49 | 16°2  | 1°20  | 14°51 | 13°15  | 11°55 | 16°24  | 27°14  | 27°51  | 27°25 | 29°44 | n.a. |
| W16 | 8 31 4  | 10°16'31 | 10♌35 | 28°17 | 17°13 | 2°3   | 15°0  | 13°14  | 11°58 | 16°23  | 27°14  | 27°52  | 27°22 | 29°51 | n.a. |
| T17 | 8 35 1  | 11°15'27 | 22°37 | 29°40 | 18°24 | 2°46  | 15°9  | 13°13  | 12°2  | 16°21  | 27°13  | 27°53  | 27°19 | 29°58 | n.a. |
| F18 | 8 38 58 | 12°14'20 | 4♌31  | 0♌57  | 19°35 | 3°29  | 15°19 | 13°12  | 12°5  | 16°20  | 27°13  | 27°54  | 27°15 | 0♌4   | n.a. |
| S19 | 8 42 54 | 13°13'11 | 16°20 | 2°9   | 20°45 | 4°12  | 15°28 | 13°11  | 12°8  | 16°18  | 27°13  | 27°55  | 27°12 | 0°11  | n.a. |
| S20 | 8 46 51 | 14°11'59 | 28°7  | 3°15  | 21°56 | 4°55  | 15°38 | 13°10  | 12°12 | 16°17  | 27°13  | 27°R56 | 27°9  | 0°18  | n.a. |
| M21 | 8 50 47 | 15°10'46 | 9♌55  | 4°16  | 23°6  | 5°38  | 15°47 | 13°8   | 12°15 | 16°15  | 27°13  | 27°55  | 27°6  | 0°24  | n.a. |
| T22 | 8 54 44 | 16°9'30  | 21°46 | 5°9   | 24°16 | 6°22  | 15°57 | 13°7   | 12°19 | 16°14  | 27°13  | 27°54  | 27°3  | 0°31  | n.a. |
| W23 | 8 58 40 | 17°8'12  | 3♌43  | 5°57  | 25°27 | 7°5   | 16°7  | 13°6   | 12°22 | 16°13  | 27°12  | 27°52  | 26°59 | 0°38  | n.a. |
| T24 | 9 2 37  | 18°6'51  | 15°47 | 6°38  | 26°37 | 7°48  | 16°17 | 13°4   | 12°25 | 16°11  | 27°12  | 27°49  | 26°56 | 0°44  | n.a. |
| F25 | 9 6 33  | 19°5'29  | 28°0  | 7°12  | 27°46 | 8°31  | 16°27 | 13°3   | 12°29 | 16°10  | 27°12  | 27°45  | 26°53 | 0°51  | n.a. |
| S26 | 9 10 30 | 20°4'05  | 10♌24 | 7°40  | 28°56 | 9°14  | 16°37 | 13°1   | 12°32 | 16°8   | 27°D12 | 27°42  | 26°50 | 0°58  | n.a. |
| S27 | 9 14 27 | 21°2'39  | 23°2  | 8°2   | 0♈6   | 9°57  | 16°48 | 12°59  | 12°36 | 16°7   | 27°12  | 27°39  | 26°47 | 1°4   | n.a. |
| M28 | 9 18 23 | 22°1'11  | 5♌56  | 8°17  | 1°15  | 10°40 | 16°58 | 12°57  | 12°39 | 16°6   | 27°12  | 27°37  | 26°44 | 1°11  | n.a. |
| T29 | 9 22 20 | 22♌59'41 | 19♌9  | 8♌25  | 2♈25  | 11♌23 | 17♈9  | 12♇55  | 12♆42 | 16♄5   | 27♃12  | 27°D36 | 26♂40 | 1♌17  | n.a. |

Delta T = 13h35m49s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [6.2.2007]

SWISS EPHEMERIS for the year 2021 BCE

MARCH 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                   | ♀                   | ♂                  | ♃                   | ♄                   | ♅                    | ♆                   | ♇                   | ♁                   | ♂                    | ♁                   | ♃                  | ♄    |
|------|----------|------------------------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|----------------------|---------------------|--------------------|------|
| W 1  | 9 26 16  | 23 <sup>58</sup> 58'10 | 2 <sup>41</sup> 41  | 8°R27               | 3 <sup>34</sup> 34 | 12 <sup>6</sup> 6   | 17 <sup>19</sup> 19 | 12 <sup>R53</sup> 53 | 12 <sup>46</sup> 46 | 16°R 3              | 27 <sup>13</sup> 13 | 27 <sup>36</sup> 36  | 26 <sup>37</sup> 37 | 1 <sup>24</sup> 24 | n.a. |
| T 2  | 9 30 13  | 24 <sup>56</sup> 37    | 1 <sup>36</sup> 36  | 8 <sup>X</sup> 23   | 4 <sup>43</sup> 43 | 12 <sup>49</sup> 49 | 17 <sup>30</sup> 30 | 12 <sup>51</sup> 51  | 12 <sup>49</sup> 49 | 16 <sup>2</sup> 2   | 27 <sup>13</sup> 13 | 27 <sup>37</sup> 37  | 26 <sup>34</sup> 34 | 1 <sup>31</sup> 31 | n.a. |
| F 3  | 9 34 9   | 25 <sup>55</sup> 02    | 0 <sup>53</sup> 53  | 8°I3                | 5 <sup>52</sup> 52 | 13 <sup>32</sup> 32 | 17 <sup>41</sup> 41 | 12 <sup>49</sup> 49  | 12 <sup>52</sup> 52 | 16° 1               | 27 <sup>13</sup> 13 | 27 <sup>39</sup> 39  | 26 <sup>31</sup> 31 | 1 <sup>37</sup> 37 | n.a. |
| S 4  | 9 38 6   | 26 <sup>53</sup> 26    | 1 <sup>30</sup> 30  | 7°58                | 7° 1               | 14 <sup>15</sup> 15 | 17 <sup>52</sup> 52 | 12 <sup>46</sup> 46  | 12 <sup>56</sup> 56 | 16° 0               | 27 <sup>13</sup> 13 | 27 <sup>40</sup> 40  | 26 <sup>28</sup> 28 | 1 <sup>44</sup> 44 | n.a. |
| S 5  | 9 42 2   | 27 <sup>51</sup> 47    | 0 <sup>23</sup> 23  | 7°37                | 8°10               | 14 <sup>58</sup> 58 | 18° 3               | 12 <sup>44</sup> 44  | 12 <sup>59</sup> 59 | 15 <sup>59</sup> 59 | 27 <sup>13</sup> 13 | 27 <sup>R40</sup> 40 | 26 <sup>25</sup> 25 | 1 <sup>51</sup> 51 | n.a. |
| M 6  | 9 45 59  | 28 <sup>50</sup> 07    | 1 <sup>26</sup> 26  | 7°12                | 9°19               | 15 <sup>41</sup> 41 | 18 <sup>14</sup> 14 | 12 <sup>41</sup> 41  | 13° 2               | 15 <sup>57</sup> 57 | 27 <sup>13</sup> 13 | 27 <sup>39</sup> 39  | 26 <sup>21</sup> 21 | 1 <sup>57</sup> 57 | n.a. |
| T 7  | 9 49 56  | 29 <sup>48</sup> 25    | 0 <sup>X</sup> 30   | 6°43                | 10°27              | 16 <sup>24</sup> 24 | 18 <sup>25</sup> 25 | 12 <sup>39</sup> 39  | 13° 6               | 15 <sup>56</sup> 56 | 27 <sup>14</sup> 14 | 27 <sup>37</sup> 37  | 26 <sup>18</sup> 18 | 2° 4               | n.a. |
| W 8  | 9 53 52  | 0 <sup>X</sup> 46'41   | 1 <sup>26</sup> 26  | 6°10                | 11°35              | 17° 7               | 18 <sup>36</sup> 36 | 12 <sup>36</sup> 36  | 13° 9               | 15 <sup>55</sup> 55 | 27 <sup>14</sup> 14 | 27 <sup>33</sup> 33  | 26 <sup>15</sup> 15 | 2° 11              | n.a. |
| T 9  | 9 57 49  | 1°44'54                | 0 <sup>Y</sup> 7    | 5°34                | 12°44              | 17°50               | 18°47               | 12°34                | 13°12               | 15°54               | 27 <sup>14</sup> 14 | 27 <sup>28</sup> 28  | 26 <sup>12</sup> 12 | 2°17               | n.a. |
| F 10 | 10 1 45  | 2°43'06                | 14°24               | 4°56                | 13°52              | 18°32               | 18°59               | 12°31                | 13°16               | 15°53               | 27 <sup>14</sup> 14 | 27 <sup>23</sup> 23  | 26° 9               | 2°24               | n.a. |
| S 11 | 10 5 42  | 3°41'15                | 28°14               | 4°16                | 15° 0              | 19°15               | 19°10               | 12°28                | 13°19               | 15°52               | 27 <sup>15</sup> 15 | 27°18                | 26° 5               | 2°31               | n.a. |
| S 12 | 10 9 38  | 4°39'23                | 11 <sup>13</sup> 13 | 3°35                | 16° 7              | 19°58               | 19°22               | 12°25                | 13°22               | 15°51               | 27°15               | 27°14                | 26° 2               | 2°37               | n.a. |
| M13  | 10 13 35 | 5°37'28                | 24°33               | 2°55                | 17°15              | 20°41               | 19°33               | 12°22                | 13°25               | 15°50               | 27°15               | 27°12                | 25°59               | 2°44               | n.a. |
| T 14 | 10 17 31 | 6°35'31                | 7 <sup>II</sup> 6   | 2°15                | 18°22              | 21°24               | 19°45               | 12°19                | 13°29               | 15°49               | 27°16               | 27°D11               | 25°56               | 2°51               | n.a. |
| W15  | 10 21 28 | 7°33'33                | 19°20               | 1°36                | 19°29              | 22° 6               | 19°57               | 12°16                | 13°32               | 15°48               | 27°16               | 27°12                | 25°53               | 2°57               | n.a. |
| T 16 | 10 25 25 | 8°31'32                | 1 <sup>20</sup> 20  | 1° 0                | 20°36              | 22°49               | 20° 8               | 12°12                | 13°35               | 15°48               | 27°17               | 27°14                | 25°50               | 3° 4               | n.a. |
| F 17 | 10 29 21 | 9°29'29                | 13°11               | 0°26                | 21°43              | 23°32               | 20°20               | 12° 9                | 13°38               | 15°47               | 27°17               | 27°15                | 25°46               | 3°10               | n.a. |
| S 18 | 10 33 18 | 10°27'24               | 24°58               | 29 <sup>55</sup> 55 | 22°50              | 24°14               | 20°32               | 12° 6                | 13°41               | 15°46               | 27°18               | 27°R16               | 25°43               | 3°17               | n.a. |
| S 19 | 10 37 14 | 11°25'17               | 6 <sup>Ω</sup> 45   | 29°28               | 23°57              | 24°57               | 20°44               | 12° 2                | 13°44               | 15°45               | 27°18               | 27°15                | 25°40               | 3°24               | n.a. |
| M20  | 10 41 11 | 12°23'08               | 18°36               | 29° 4               | 25° 3              | 25°39               | 20°56               | 11°59                | 13°47               | 15°44               | 27°19               | 27°13                | 25°37               | 3°30               | n.a. |
| T 21 | 10 45 7  | 13°20'58               | 0 <sup>III</sup> 33 | 28°45               | 26° 9              | 26°22               | 21° 8               | 11°55                | 13°51               | 15°44               | 27°19               | 27° 9                | 25°34               | 3°37               | n.a. |
| W22  | 10 49 4  | 14°18'45               | 12°40               | 28°30               | 27°15              | 27° 4               | 21°21               | 11°52                | 13°54               | 15°43               | 27°20               | 27° 2                | 25°30               | 3°44               | n.a. |
| T 23 | 10 53 0  | 15°16'31               | 24°56               | 28°20               | 28°21              | 27°47               | 21°33               | 11°48                | 13°57               | 15°42               | 27°21               | 26°54                | 25°27               | 3°50               | n.a. |
| F 24 | 10 56 57 | 16°14'15               | 7 <sup>Ω</sup> 24   | 28°14               | 29°26              | 28°29               | 21°45               | 11°44                | 14° 0               | 15°42               | 27°21               | 26°46                | 25°24               | 3°57               | n.a. |
| S 25 | 11 0 53  | 17°11'58               | 20° 4               | 28°D13              | 0 <sup>X</sup> 31  | 29°11               | 21°58               | 11°41                | 14° 3               | 15°41               | 27°22               | 26°37                | 25°21               | 4° 4               | n.a. |
| S 26 | 11 4 50  | 18° 9'40               | 2 <sup>III</sup> 57 | 28°17               | 1°36               | 29°54               | 22°10               | 11°37                | 14° 6               | 15°40               | 27°23               | 26°29                | 25°18               | 4°10               | n.a. |
| M27  | 11 8 47  | 19° 7'20               | 16° 2               | 28°25               | 2°41               | 0 <sup>X</sup> 36   | 22°22               | 11°33                | 14° 9               | 15°40               | 27°23               | 26°23                | 25°15               | 4°17               | n.a. |
| T 28 | 11 12 43 | 20° 4'59               | 29°21               | 28°38               | 3°46               | 1°18                | 22°35               | 11°29                | 14°11               | 15°39               | 27°24               | 26°19                | 25°11               | 4°24               | n.a. |
| W29  | 11 16 40 | 21° 2'37               | 12 <sup>X</sup> 55  | 28°55               | 4°50               | 2° 1                | 22°48               | 11°25                | 14°14               | 15°39               | 27°25               | 26°17                | 25° 8               | 4°30               | n.a. |
| T 30 | 11 20 36 | 22° 0'13               | 26°44               | 29°17               | 5°54               | 2°43                | 23° 0               | 11°21                | 14°17               | 15°38               | 27°26               | 26°D16               | 25° 5               | 4°37               | n.a. |
| F 31 | 11 24 33 | 22 <sup>X</sup> 57'49  | 10 <sup>X</sup> 48  | 29 <sup>54</sup> 54 | 6 <sup>Ω</sup> 58  | 3 <sup>Ω</sup> 25   | 23 <sup>Y</sup> 13  | 11 <sup>Ω</sup> 17   | 14 <sup>Ω</sup> 20  | 15 <sup>Ω</sup> 38  | 27 <sup>Ω</sup> 26  | 26 <sup>Ω</sup> 17   | 25 <sup>Ω</sup> 2   | 4 <sup>Ω</sup> 44  | n.a. |

Delta T = 13h35m47s Julian Calendar 1 March 2021 BCE == Greg. Calendar 13 Feb. 2021 BCE  
The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

APRIL 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                    | ♀                 | ♂                  | ♃                  | ♄                  | ♅                 | ♆                  | ♇                  | ♁                  | ♂                  | ♁                  | ♃                 | ♄    |
|------|----------|-----------------------|----------------------|-------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|
| S 1  | 11 28 29 | 23 <sup>X</sup> 55'23 | 25 <sup>Ω</sup> 8    | 0 <sup>X</sup> 14 | 8 <sup>Ω</sup> 2   | 4 <sup>Ω</sup> 7   | 23 <sup>Y</sup> 26 | 11°R13            | 14 <sup>Ω</sup> 23 | 15°R37             | 27 <sup>Ω</sup> 27 | 26°R18             | 24 <sup>Ω</sup> 59 | 4 <sup>Ω</sup> 50 | n.a. |
| S 2  | 11 32 26 | 24°52'56              | 9 <sup>Ω</sup> 40    | 0°49              | 9° 5               | 4°49               | 23°38              | 11 <sup>Ω</sup> 9 | 14°26              | 15 <sup>Ω</sup> 37 | 27°28              | 26 <sup>Ω</sup> 17 | 24°56              | 4°57              | n.a. |
| M 3  | 11 36 22 | 25°50'28              | 24°22                | 1°27              | 10° 8              | 5°31               | 23°51              | 11° 5             | 14°28              | 15°37              | 27°29              | 26°14              | 24°52              | 5° 3              | n.a. |
| T 4  | 11 40 19 | 26°47'59              | 9 <sup>X</sup> 8     | 2°10              | 11°11              | 6°13               | 24° 4              | 11° 1             | 14°31              | 15°36              | 27°30              | 26° 9              | 24°49              | 5°10              | n.a. |
| W 5  | 11 44 16 | 27°45'29              | 23°50                | 2°56              | 12°14              | 6°54               | 24°17              | 10°57             | 14°34              | 15°36              | 27°31              | 26° 1              | 24°46              | 5°17              | n.a. |
| T 6  | 11 48 12 | 28°42'57              | 8 <sup>Y</sup> 20    | 3°45              | 13°16              | 7°36               | 24°30              | 10°52             | 14°37              | 15°36              | 27°32              | 25°52              | 24°43              | 5°23              | n.a. |
| F 7  | 11 52 9  | 29°40'24              | 22°33                | 4°38              | 14°18              | 8°18               | 24°43              | 10°48             | 14°39              | 15°36              | 27°33              | 25°42              | 24°40              | 5°30              | n.a. |
| S 8  | 11 56 5  | 0 <sup>Y</sup> 37'50  | 6 <sup>Ω</sup> 22    | 5°35              | 15°20              | 8°59               | 24°56              | 10°44             | 14°42              | 15°36              | 27°33              | 25°33              | 24°36              | 5°37              | n.a. |
| S 9  | 12 0 2   | 1°35'14               | 19°46                | 6°34              | 16°21              | 9°41               | 25° 9              | 10°39             | 14°44              | 15°35              | 27°34              | 25°25              | 24°33              | 5°43              | n.a. |
| M10  | 12 3 58  | 2°32'37               | 2 <sup>II</sup> 44   | 7°37              | 17°22              | 10°22              | 25°22              | 10°35             | 14°47              | 15°35              | 27°35              | 25°19              | 24°30              | 5°50              | n.a. |
| T 11 | 12 7 55  | 3°29'59               | 15°19                | 8°43              | 18°23              | 11° 4              | 25°35              | 10°31             | 14°49              | 15°35              | 27°36              | 25°15              | 24°27              | 5°57              | n.a. |
| W12  | 12 11 51 | 4°27'19               | 27°34                | 9°52              | 19°23              | 11°45              | 25°49              | 10°26             | 14°52              | 15°35              | 27°38              | 25°14              | 24°24              | 6° 3              | n.a. |
| T 13 | 12 15 48 | 5°24'39               | 9 <sup>Ω</sup> 35    | 11° 3             | 20°23              | 12°26              | 26° 2              | 10°22             | 14°54              | 15°D35             | 27°39              | 25°D13             | 24°21              | 6°10              | n.a. |
| F 14 | 12 19 45 | 6°21'56               | 21°27                | 12°18             | 21°23              | 13° 7              | 26°15              | 10°18             | 14°57              | 15°35              | 27°40              | 25°R14             | 24°17              | 6°17              | n.a. |
| S 15 | 12 23 41 | 7°19'13               | 3 <sup>Ω</sup> 14    | 13°36             | 22°22              | 13°48              | 26°28              | 10°13             | 14°59              | 15°35              | 27°41              | 25°14              | 24°14              | 6°23              | n.a. |
| S 16 | 12 27 38 | 8°16'28               | 15° 4                | 14°56             | 23°21              | 14°29              | 26°42              | 10° 9             | 15° 2              | 15°35              | 27°42              | 25°12              | 24°11              | 6°30              | n.a. |
| M17  | 12 31 34 | 9°13'42               | 26°58                | 16°19             | 24°19              | 15°10              | 26°55              | 10° 5             | 15° 4              | 15°35              | 27°43              | 25° 8              | 24° 8              | 6°37              | n.a. |
| T 18 | 12 35 31 | 10°10'55              | 9 <sup>III</sup> 3   | 17°44             | 25°17              | 15°51              | 27° 8              | 10° 0             | 15° 6              | 15°35              | 27°44              | 25° 1              | 24° 5              | 6°43              | n.a. |
| W19  | 12 39 27 | 11° 8'07              | 21°20                | 19°13             | 26°15              | 16°32              | 27°22              | 9°56              | 15° 8              | 15°36              | 27°45              | 24°52              | 24° 2              | 6°50              | n.a. |
| T 20 | 12 43 24 | 12° 5'18              | 3 <sup>Ω</sup> 51    | 20°44             | 27°12              | 17°12              | 27°35              | 9°51              | 15°11              | 15°36              | 27°46              | 24°41              | 23°58              | 6°56              | n.a. |
| F 21 | 12 47 20 | 13° 2'28              | 16°37                | 22°18             | 28° 9              | 17°53              | 27°49              | 9°47              | 15°13              | 15°36              | 27°48              | 24°29              | 23°55              | 7° 3              | n.a. |
| S 22 | 12 51 17 | 13°59'38              | 29°37                | 23°54             | 29° 5              | 18°33              | 28° 2              | 9°43              | 15°15              | 15°36              | 27°49              | 24°17              | 23°52              | 7°10              | n.a. |
| S 23 | 12 55 13 | 14°56'46              | 12 <sup>III</sup> 50 | 25°33             | 0 <sup>II</sup> 1  | 19°14              | 28°15              | 9°38              | 15°17              | 15°37              | 27°50              | 24° 6              | 23°49              | 7°16              | n.a. |
| M24  | 12 59 10 | 15°53'55              | 26°15                | 27°14             | 0°56               | 19°54              | 28°29              | 9°34              | 15°19              | 15°37              | 27°51              | 23°57              | 23°46              | 7°23              | n.a. |
| T 25 | 13 3 7   | 16°51'02              | 9 <sup>X</sup> 51    | 28°58             | 1°51               | 20°34              | 28°42              | 9°29              | 15°21              | 15°37              | 27°53              | 23°50              | 23°42              | 7°30              | n.a. |
| W26  | 13 7 3   | 17°48'10              | 23°35                | 0 <sup>Y</sup> 45 | 2°45               | 21°14              | 28°56              | 9°25              | 15°23              | 15°38              | 27°54              | 23°46              | 23°39              | 7°36              | n.a. |
| T 27 | 13 11 0  | 18°45'17              | 7 <sup>Ω</sup> 28    | 2°34              | 3°39               | 21°54              | 29° 9              | 9°21              | 15°25              | 15°38              | 27°55              | 23°45              | 23°36              | 7°43              | n.a. |
| F 28 | 13 14 56 | 19°42'24              | 21°30                | 4°26              | 4°32               | 22°34              | 29°23              | 9°17              | 15°27              | 15°39              | 27°56              | 23°45              | 23°33              | 7°50              | n.a. |
| S 29 | 13 18 53 | 20°39'30              | 5 <sup>Ω</sup> 39    | 6°20              | 5°24               | 23°13              | 29°37              | 9°12              | 15°29              | 15°39              | 27°58              | 23°45              | 23°30              | 7°56              | n.a. |
| S 30 | 13 22 49 | 21 <sup>Y</sup> 36'37 | 19 <sup>Ω</sup> 55   | 8 <sup>Y</sup> 16 | 6 <sup>II</sup> 16 | 23 <sup>Ω</sup> 53 | 29 <sup>Y</sup> 50 | 9 <sup>Ω</sup> 8  | 15 <sup>Ω</sup> 31 | 15 <sup>Ω</sup> 40 | 27 <sup>Ω</sup> 59 | 23 <sup>Ω</sup> 43 | 23 <sup>Ω</sup> 27 | 8 <sup>Ω</sup> 3  | n.a. |

Delta T = 13h35m45s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [6.2.2007]

SWISS EPHEMERIS for the year 2021 BCE

MAY 2021 BCE (-2020) JC

00:00 UT

| Day | Sid.t    | ☉        | ☽     | ♀     | ♁     | ♂     | ♃    | ♄     | ♅     | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|----------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| M 1 | 13 26 46 | 22°33'43 | 4♋15  | 10°14 | 7♁ 8  | 24♂32 | 0♃ 4 | 9°R 4 | 15♁32 | 15♁40 | 28♂ 0 | 23°R39 | 23♁23 | 8♁10  | n.a. |   |   |   |   |   |   |   |   |
| T 2 | 13 30 42 | 23°30'49 | 18°36 | 12°15 | 7°58  | 25°12 | 0°17 | 9♁ 0  | 15°34 | 15°41 | 28° 2 | 23♁33  | 23°20 | 8°16  | n.a. |   |   |   |   |   |   |   |   |
| W 3 | 13 34 39 | 24°27'54 | 2°15  | 14°18 | 8°48  | 25°51 | 0°31 | 8°55  | 15°36 | 15°41 | 28° 3 | 23°24  | 23°17 | 8°23  | n.a. |   |   |   |   |   |   |   |   |
| T 4 | 13 38 36 | 25°25'00 | 17° 4 | 16°22 | 9°37  | 26°30 | 0°45 | 8°51  | 15°37 | 15°42 | 28° 5 | 23°13  | 23°14 | 8°30  | n.a. |   |   |   |   |   |   |   |   |
| F 5 | 13 42 32 | 26°22'05 | 0♃59  | 18°29 | 10°26 | 27° 9 | 0°58 | 8°47  | 15°39 | 15°43 | 28° 6 | 23° 1  | 23°11 | 8°36  | n.a. |   |   |   |   |   |   |   |   |
| S 6 | 13 46 29 | 27°19'09 | 14°35 | 20°36 | 11°14 | 27°48 | 1°12 | 8°43  | 15°41 | 15°43 | 28° 7 | 22°50  | 23° 7 | 8°43  | n.a. |   |   |   |   |   |   |   |   |
| S 7 | 13 50 25 | 28°16'14 | 27°51 | 22°45 | 12° 1 | 28°26 | 1°25 | 8°39  | 15°42 | 15°44 | 28° 9 | 22°40  | 23° 4 | 8°50  | n.a. |   |   |   |   |   |   |   |   |
| M 8 | 13 54 22 | 29°13'18 | 10♁44 | 24°55 | 12°47 | 29° 5 | 1°39 | 8°35  | 15°44 | 15°45 | 28°10 | 22°32  | 23° 1 | 8°56  | n.a. |   |   |   |   |   |   |   |   |
| T 9 | 13 58 18 | 0♃10'22  | 23°17 | 27° 5 | 13°32 | 29°43 | 1°53 | 8°31  | 15°45 | 15°46 | 28°12 | 22°27  | 22°58 | 9° 3  | n.a. |   |   |   |   |   |   |   |   |
| W10 | 14 2 15  | 1° 7'25  | 5♁32  | 29°16 | 14°17 | 0♁21  | 2° 6 | 8°27  | 15°46 | 15°47 | 28°13 | 22°24  | 22°55 | 9° 9  | n.a. |   |   |   |   |   |   |   |   |
| T11 | 14 6 11  | 2° 4'28  | 17°33 | 1♃27  | 15° 0 | 0°59  | 2°20 | 8°23  | 15°48 | 15°47 | 28°15 | 22°23  | 22°52 | 9°16  | n.a. |   |   |   |   |   |   |   |   |
| F12 | 14 10 8  | 3° 1'31  | 29°25 | 3°37  | 15°43 | 1°37  | 2°34 | 8°20  | 15°49 | 15°48 | 28°16 | 22°23  | 22°48 | 9°23  | n.a. |   |   |   |   |   |   |   |   |
| S13 | 14 14 5  | 3°58'33  | 11♁14 | 5°48  | 16°24 | 2°14  | 2°47 | 8°16  | 15°50 | 15°49 | 28°18 | 22°23  | 22°45 | 9°29  | n.a. |   |   |   |   |   |   |   |   |
| S14 | 14 18 1  | 4°55'35  | 23° 5 | 7°57  | 17° 5 | 2°52  | 3° 1 | 8°12  | 15°52 | 15°50 | 28°19 | 22°21  | 22°42 | 9°36  | n.a. |   |   |   |   |   |   |   |   |
| M15 | 14 21 58 | 5°52'37  | 5♁ 3  | 10° 6 | 17°44 | 3°29  | 3°15 | 8° 9  | 15°53 | 15°51 | 28°21 | 22°18  | 22°39 | 9°43  | n.a. |   |   |   |   |   |   |   |   |
| T16 | 14 25 54 | 6°49'38  | 17°12 | 12°14 | 18°23 | 4° 6  | 3°28 | 8° 5  | 15°54 | 15°52 | 28°22 | 22°13  | 22°36 | 9°49  | n.a. |   |   |   |   |   |   |   |   |
| W17 | 14 29 51 | 7°46'40  | 29°37 | 14°20 | 19° 0 | 4°43  | 3°42 | 8° 1  | 15°55 | 15°53 | 28°24 | 22° 4  | 22°33 | 9°56  | n.a. |   |   |   |   |   |   |   |   |
| T18 | 14 33 47 | 8°43'41  | 12♁20 | 16°25 | 19°36 | 5°20  | 3°55 | 7°58  | 15°56 | 15°54 | 28°25 | 21°54  | 22°29 | 10° 3 | n.a. |   |   |   |   |   |   |   |   |
| F19 | 14 37 44 | 9°40'42  | 25°22 | 18°28 | 20°11 | 5°56  | 4° 9 | 7°55  | 15°57 | 15°55 | 28°27 | 21°43  | 22°26 | 10° 9 | n.a. |   |   |   |   |   |   |   |   |
| S20 | 14 41 40 | 10°37'44 | 8♁41  | 20°30 | 20°44 | 6°33  | 4°23 | 7°51  | 15°58 | 15°57 | 28°28 | 21°32  | 22°23 | 10°16 | n.a. |   |   |   |   |   |   |   |   |
| S21 | 14 45 37 | 11°34'46 | 22°17 | 22°30 | 21°16 | 7° 9  | 4°36 | 7°48  | 15°59 | 15°58 | 28°30 | 21°21  | 22°20 | 10°23 | n.a. |   |   |   |   |   |   |   |   |
| M22 | 14 49 34 | 12°31'48 | 6♁ 7  | 24°29 | 21°47 | 7°45  | 4°50 | 7°45  | 16° 0 | 15°59 | 28°31 | 21°13  | 22°17 | 10°29 | n.a. |   |   |   |   |   |   |   |   |
| T23 | 14 53 30 | 13°28'50 | 20° 6 | 26°25 | 22°16 | 8°21  | 5° 3 | 7°41  | 16° 0 | 16° 0 | 28°33 | 21° 7  | 22°13 | 10°36 | n.a. |   |   |   |   |   |   |   |   |
| W24 | 14 57 27 | 14°25'53 | 4♃11  | 28°20 | 22°44 | 8°56  | 5°17 | 7°38  | 16° 1 | 16° 1 | 28°35 | 21° 4  | 22°10 | 10°43 | n.a. |   |   |   |   |   |   |   |   |
| T25 | 15 1 23  | 15°22'57 | 18°19 | 0♁12  | 23°10 | 9°32  | 5°30 | 7°35  | 16° 2 | 16° 3 | 28°36 | 21°D 3 | 22° 7 | 10°49 | n.a. |   |   |   |   |   |   |   |   |
| F26 | 15 5 20  | 16°20'01 | 2♁29  | 2° 3  | 23°35 | 10° 7 | 5°44 | 7°32  | 16° 3 | 16° 4 | 28°38 | 21° 3  | 22° 4 | 10°56 | n.a. |   |   |   |   |   |   |   |   |
| S27 | 15 9 16  | 17°17'06 | 16°38 | 3°52  | 23°58 | 10°41 | 5°57 | 7°30  | 16° 3 | 16° 5 | 28°39 | 21°R 4 | 22° 1 | 11° 3 | n.a. |   |   |   |   |   |   |   |   |
| S28 | 15 13 13 | 18°14'12 | 0♁46  | 5°39  | 24°19 | 11°16 | 6°11 | 7°27  | 16° 4 | 16° 7 | 28°41 | 21° 3  | 21°58 | 11° 9 | n.a. |   |   |   |   |   |   |   |   |
| M29 | 15 17 9  | 19°11'19 | 14°50 | 7°24  | 24°39 | 11°50 | 6°24 | 7°24  | 16° 4 | 16° 8 | 28°42 | 21° 0  | 21°54 | 11°16 | n.a. |   |   |   |   |   |   |   |   |
| T30 | 15 21 6  | 20° 8'26 | 28°50 | 9° 7  | 24°57 | 12°25 | 6°38 | 7°21  | 16° 5 | 16° 9 | 28°44 | 20°56  | 21°51 | 11°23 | n.a. |   |   |   |   |   |   |   |   |
| W31 | 15 25 3  | 21♁ 5'34 | 12°43 | 10♁49 | 25♁12 | 12♁58 | 6♃51 | 7♁19  | 16♁ 5 | 16♁11 | 28♂46 | 20♁48  | 21♁48 | 11♁29 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 13h35m43s Julian Calendar 1 May 2021 BCE == Greg. Calendar 14 Apr. 2021 BCE  
 The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

JUNE 2021 BCE (-2020) JC

00:00 UT

| Day | Sid.t    | ☉        | ☽     | ♀     | ♁      | ♂     | ♃     | ♄     | ♅      | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |
|-----|----------|----------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|
| F 1 | 15 28 59 | 22♂ 2'43 | 26°27 | 12♁28 | 25♁26  | 13♁32 | 7♃ 4  | 7°R16 | 16♁ 5  | 16♁12 | 28♂47 | 20°R40 | 21♁45 | 11♁36 | n.a. |   |   |   |   |   |   |   |   |
| T 2 | 15 32 56 | 22°59'52 | 9♃58  | 14° 6 | 25°38  | 14° 5 | 7°18  | 7♁14  | 16° 6  | 16°14 | 28°49 | 20♁30  | 21°42 | 11°42 | n.a. |   |   |   |   |   |   |   |   |
| S 3 | 15 36 52 | 23°57'03 | 23°14 | 15°41 | 25°48  | 14°38 | 7°31  | 7°11  | 16° 6  | 16°15 | 28°50 | 20°21  | 21°38 | 11°49 | n.a. |   |   |   |   |   |   |   |   |
| S 4 | 15 40 49 | 24°54'14 | 6♁13  | 17°15 | 25°56  | 15°11 | 7°45  | 7° 9  | 16° 6  | 16°17 | 28°52 | 20°13  | 21°35 | 11°56 | n.a. |   |   |   |   |   |   |   |   |
| M 5 | 15 44 45 | 25°51'26 | 18°54 | 18°47 | 26° 1  | 15°44 | 7°58  | 7° 7  | 16° 6  | 16°18 | 28°54 | 20° 6  | 21°32 | 12° 2 | n.a. |   |   |   |   |   |   |   |   |
| T 6 | 15 48 42 | 26°48'38 | 1♁19  | 20°16 | 26° 4  | 16°16 | 8°11  | 7° 5  | 16° 6  | 16°20 | 28°55 | 20° 2  | 21°29 | 12° 9 | n.a. |   |   |   |   |   |   |   |   |
| W 7 | 15 52 38 | 27°45'51 | 13°30 | 21°44 | 26°R 5 | 16°48 | 8°24  | 7° 3  | 16° 7  | 16°21 | 28°57 | 20° 1  | 21°26 | 12°16 | n.a. |   |   |   |   |   |   |   |   |
| T 8 | 15 56 35 | 28°43'05 | 25°29 | 23°10 | 26° 4  | 17°19 | 8°37  | 7° 1  | 16°R 7 | 16°23 | 28°59 | 20°D 0 | 21°23 | 12°22 | n.a. |   |   |   |   |   |   |   |   |
| F 9 | 16 0 32  | 29°40'20 | 7♁20  | 24°34 | 26° 1  | 17°50 | 8°51  | 6°59  | 16° 7  | 16°25 | 29° 0 | 20° 1  | 21°19 | 12°29 | n.a. |   |   |   |   |   |   |   |   |
| S10 | 16 4 28  | 0♁37'35  | 19° 9 | 25°56 | 25°55  | 18°21 | 9° 4  | 6°57  | 16° 6  | 16°26 | 29° 2 | 20° 3  | 21°16 | 12°36 | n.a. |   |   |   |   |   |   |   |   |
| S11 | 16 8 25  | 1°34'50  | 1♁ 0  | 27°15 | 25°46  | 18°52 | 9°17  | 6°56  | 16° 6  | 16°28 | 29° 3 | 20°R 3 | 21°13 | 12°42 | n.a. |   |   |   |   |   |   |   |   |
| M12 | 16 12 21 | 2°32'07  | 12°58 | 28°33 | 25°36  | 19°22 | 9°30  | 6°54  | 16° 6  | 16°30 | 29° 5 | 20° 3  | 21°10 | 12°49 | n.a. |   |   |   |   |   |   |   |   |
| T13 | 16 16 18 | 3°29'24  | 25°10 | 29°48 | 25°22  | 19°52 | 9°43  | 6°53  | 16° 6  | 16°31 | 29° 7 | 20° 0  | 21° 7 | 12°56 | n.a. |   |   |   |   |   |   |   |   |
| W14 | 16 20 14 | 4°26'42  | 7♁38  | 1♁ 1  | 25° 7  | 20°22 | 9°56  | 6°51  | 16° 6  | 16°33 | 29° 8 | 19°56  | 21° 4 | 13° 2 | n.a. |   |   |   |   |   |   |   |   |
| T15 | 16 24 11 | 5°24'00  | 20°26 | 2°12  | 24°49  | 20°51 | 10° 9 | 6°50  | 16° 5  | 16°35 | 29°10 | 19°50  | 21° 0 | 13° 9 | n.a. |   |   |   |   |   |   |   |   |
| F16 | 16 28 7  | 6°21'20  | 3♁37  | 3°21  | 24°29  | 21°19 | 10°22 | 6°49  | 16° 5  | 16°37 | 29°12 | 19°43  | 20°57 | 13°16 | n.a. |   |   |   |   |   |   |   |   |
| S17 | 16 32 4  | 7°18'40  | 17°11 | 4°26  | 24° 7  | 21°48 | 10°34 | 6°48  | 16° 5  | 16°39 | 29°13 | 19°37  | 20°54 | 13°22 | n.a. |   |   |   |   |   |   |   |   |
| S18 | 16 36 1  | 8°16'02  | 1♁ 5  | 5°30  | 23°43  | 22°16 | 10°47 | 6°47  | 16° 4  | 16°40 | 29°15 | 19°30  | 20°51 | 13°29 | n.a. |   |   |   |   |   |   |   |   |
| M19 | 16 39 57 | 9°13'25  | 15°17 | 6°30  | 23°16  | 22°44 | 11° 0 | 6°46  | 16° 4  | 16°42 | 29°16 | 19°25  | 20°48 | 13°36 | n.a. |   |   |   |   |   |   |   |   |
| T20 | 16 43 54 | 10°10'49 | 29°41 | 7°28  | 22°48  | 23°11 | 11°13 | 6°45  | 16° 3  | 16°44 | 29°18 | 19°22  | 20°44 | 13°42 | n.a. |   |   |   |   |   |   |   |   |
| W21 | 16 47 50 | 11° 8'14 | 14♁11 | 8°23  | 22°18  | 23°38 | 11°25 | 6°44  | 16° 2  | 16°46 | 29°20 | 19°D21 | 20°41 | 13°49 | n.a. |   |   |   |   |   |   |   |   |
| T22 | 16 51 47 | 12° 5'41 | 28°43 | 9°15  | 21°46  | 24° 4 | 11°38 | 6°44  | 16° 2  | 16°48 | 29°21 | 19°21  | 20°38 | 13°56 | n.a. |   |   |   |   |   |   |   |   |
| F23 | 16 55 43 | 13° 3'09 | 13♁11 | 10° 4 | 21°14  | 24°30 | 11°51 | 6°43  | 16° 1  | 16°50 | 29°23 | 19°22  | 20°35 | 14° 2 | n.a. |   |   |   |   |   |   |   |   |
| S24 | 16 59 40 | 14° 0'39 | 27°31 | 10°49 | 20°39  | 24°56 | 12° 3 | 6°42  | 16° 0  | 16°52 | 29°24 | 19°23  | 20°32 | 14° 9 | n.a. |   |   |   |   |   |   |   |   |
| S25 | 17 3 36  | 14°58'11 | 11♁42 | 11°31 | 20° 4  | 25°21 | 12°16 | 6°42  | 16° 0  | 16°54 | 29°26 | 19°R24 | 20°29 | 14°16 | n.a. |   |   |   |   |   |   |   |   |
| M26 | 17 7 33  | 15°55'44 | 25°41 | 12° 9 | 19°28  | 25°45 | 12°28 | 6°42  | 15°59  | 16°56 | 29°27 | 19°24  | 20°25 | 14°22 | n.a. |   |   |   |   |   |   |   |   |
| T27 | 17 11 30 | 16°53'18 | 9°28  | 12°43 | 18°52  | 26°10 | 12°40 | 6°42  | 15°58  | 16°58 | 29°29 | 19°22  | 20°22 | 14°29 | n.a. |   |   |   |   |   |   |   |   |
| W28 | 17 15 26 | 17°50'55 | 23° 1 | 13°13 | 18°15  | 26°33 | 12°53 | 6°D42 | 15°57  | 17° 0 | 29°31 | 19°19  | 20°19 | 14°36 | n.a. |   |   |   |   |   |   |   |   |
| T29 | 17 19 23 | 18°48'33 | 6♃22  | 13°38 | 17°38  | 26°56 | 13° 5 | 6°42  | 15°56  | 17° 2 | 29°32 | 19°15  | 20°16 | 14°42 | n.a. |   |   |   |   |   |   |   |   |
| F30 | 17 23 19 | 19♁46'13 | 19♁29 | 13♁59 | 17♁ 2  | 27♁19 | 13♁17 | 6♁42  | 15♁55  | 17♁ 4 | 29♂34 | 19♁10  | 20♁13 | 14♁49 | n.a. |   |   |   |   |   |   |   |   |

Delta T = 13h35m41s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [6.2.2007]

SWISS EPHEMERIS for the year 2021 BCE

JULY 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♀      | ♁      | ♂     | ♃     | ♄    | ♅      | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|-----------|--------|--------|--------|-------|-------|------|--------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|--|
| S 1  | 17 27 16 | 20II43'55 | 2II22  | 14☾15  | 16°R25 | 27♁41 | 13♃29 | 6♄42 | 15°R54 | 17☽ 6 | 29♃35 | 19°R 5 | 20☾10 | 14♌56 | n.a. |   |   |   |   |   |   |   |   |  |
| S 2  | 17 31 12 | 21°41'38  | 15° 1  | 14°26  | 15II49 | 28° 3 | 13°41 | 6°42 | 15♁53  | 17° 8 | 29°37 | 19☽ 1  | 20° 6 | 15° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| M 3  | 17 35 9  | 22°39'23  | 27°27  | 14°32  | 15°15  | 28°24 | 13°53 | 6°43 | 15°52  | 17°10 | 29°38 | 18°59  | 20° 3 | 15° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| T 4  | 17 39 5  | 23°37'10  | 9☽40   | 14°R33 | 14°41  | 28°44 | 14° 5 | 6°43 | 15°51  | 17°12 | 29°40 | 18°57  | 20° 0 | 15°16 | n.a. |   |   |   |   |   |   |   |   |  |
| W 5  | 17 43 2  | 24°34'58  | 21°43  | 14°28  | 14° 8  | 29° 4 | 14°17 | 6°44 | 15°49  | 17°14 | 29°41 | 18°D57 | 19°57 | 15°22 | n.a. |   |   |   |   |   |   |   |   |  |
| T 6  | 17 46 59 | 25°32'47  | 3♌38   | 14°17  | 13°37  | 29°23 | 14°29 | 6°44 | 15°48  | 17°16 | 29°43 | 18°57  | 19°54 | 15°29 | n.a. |   |   |   |   |   |   |   |   |  |
| F 7  | 17 50 55 | 26°30'38  | 15°27  | 14° 0  | 13° 7  | 29°42 | 14°40 | 6°45 | 15°47  | 17°18 | 29°44 | 18°59  | 19°50 | 15°36 | n.a. |   |   |   |   |   |   |   |   |  |
| S 8  | 17 54 52 | 27°28'31  | 27°15  | 13°38  | 12°39  | 0♃ 0  | 14°52 | 6°46 | 15°45  | 17°20 | 29°46 | 19° 0  | 19°47 | 15°42 | n.a. |   |   |   |   |   |   |   |   |  |
| S 9  | 17 58 48 | 28°26'25  | 9♍ 6   | 13° 9  | 12°13  | 0°17  | 15° 4 | 6°47 | 15°44  | 17°22 | 29°47 | 19° 2  | 19°44 | 15°49 | n.a. |   |   |   |   |   |   |   |   |  |
| M10  | 18 2 45  | 29°24'20  | 21° 4  | 12°36  | 11°49  | 0°34  | 15°15 | 6°48 | 15°43  | 17°24 | 29°49 | 19° 3  | 19°41 | 15°56 | n.a. |   |   |   |   |   |   |   |   |  |
| T 11 | 18 6 41  | 0☽22'17   | 3♎13   | 11°57  | 11°28  | 0°50  | 15°27 | 6°49 | 15°41  | 17°27 | 29°50 | 19°R 3 | 19°38 | 16° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| W12  | 18 10 38 | 1°20'15   | 15°40  | 11°13  | 11° 8  | 1° 6  | 15°38 | 6°50 | 15°40  | 17°29 | 29°51 | 19° 2  | 19°35 | 16° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| T 13 | 18 14 34 | 2°18'15   | 28°27  | 10°25  | 10°50  | 1°20  | 15°49 | 6°52 | 15°38  | 17°31 | 29°53 | 19° 1  | 19°31 | 16°15 | n.a. |   |   |   |   |   |   |   |   |  |
| F 14 | 18 18 31 | 3°16'17   | 11♌38  | 9°33   | 10°35  | 1°35  | 16° 0 | 6°53 | 15°36  | 17°33 | 29°54 | 18°59  | 19°28 | 16°22 | n.a. |   |   |   |   |   |   |   |   |  |
| S 15 | 18 22 28 | 4°14'20   | 25°15  | 8°39   | 10°23  | 1°48  | 16°11 | 6°55 | 15°35  | 17°35 | 29°56 | 18°57  | 19°25 | 16°29 | n.a. |   |   |   |   |   |   |   |   |  |
| S 16 | 18 26 24 | 5°12'25   | 9♁18   | 7°42   | 10°12  | 2° 1  | 16°22 | 6°56 | 15°33  | 17°37 | 29°57 | 18°55  | 19°22 | 16°35 | n.a. |   |   |   |   |   |   |   |   |  |
| M17  | 18 30 21 | 6°10'32   | 23°42  | 6°46   | 10° 4  | 2°13  | 16°33 | 6°58 | 15°31  | 17°40 | 29°58 | 18°54  | 19°19 | 16°42 | n.a. |   |   |   |   |   |   |   |   |  |
| T 18 | 18 34 17 | 7° 8'40   | 8♂25   | 5°50   | 9°59   | 2°24  | 16°44 | 7° 0 | 15°30  | 17°42 | 0II 0 | 18°53  | 19°16 | 16°49 | n.a. |   |   |   |   |   |   |   |   |  |
| W19  | 18 38 14 | 8° 6'51   | 23°18  | 4°55   | 9°56   | 2°35  | 16°55 | 7° 2 | 15°28  | 17°44 | 0° 1  | 18°D53 | 19°12 | 16°55 | n.a. |   |   |   |   |   |   |   |   |  |
| T 20 | 18 42 10 | 9° 5'03   | 8♁14   | 4° 4   | 9°D55  | 2°44  | 17° 6 | 7° 4 | 15°26  | 17°46 | 0° 2  | 18°54  | 19° 9 | 17° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| F 21 | 18 46 7  | 10° 3'18  | 23° 6  | 3°17   | 9°57   | 2°53  | 17°16 | 7° 6 | 15°24  | 17°48 | 0° 4  | 18°54  | 19° 6 | 17° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| S 22 | 18 50 4  | 11° 1'34  | 7♃45   | 2°36   | 10° 0  | 3° 2  | 17°27 | 7° 8 | 15°23  | 17°51 | 0° 5  | 18°55  | 19° 3 | 17°15 | n.a. |   |   |   |   |   |   |   |   |  |
| S 23 | 18 54 0  | 11°59'53  | 22° 9  | 2° 0   | 10° 7  | 3° 9  | 17°37 | 7°10 | 15°21  | 17°53 | 0° 6  | 18°56  | 19° 0 | 17°22 | n.a. |   |   |   |   |   |   |   |   |  |
| M24  | 18 57 57 | 12°58'14  | 6♃13   | 1°32   | 10°15  | 3°16  | 17°47 | 7°13 | 15°19  | 17°55 | 0° 7  | 18°56  | 18°56 | 17°29 | n.a. |   |   |   |   |   |   |   |   |  |
| T 25 | 19 1 53  | 13°56'38  | 19°57  | 1°12   | 10°26  | 3°21  | 17°58 | 7°15 | 15°17  | 17°57 | 0° 9  | 18°R56 | 18°53 | 17°35 | n.a. |   |   |   |   |   |   |   |   |  |
| W26  | 19 5 50  | 14°55'04  | 3♃21   | 1° 1   | 10°38  | 3°26  | 18° 8 | 7°18 | 15°15  | 18° 0 | 0°10  | 18°56  | 18°50 | 17°42 | n.a. |   |   |   |   |   |   |   |   |  |
| T 27 | 19 9 46  | 15°53'32  | 16°27  | 0°D58  | 10°53  | 3°30  | 18°18 | 7°20 | 15°13  | 18° 2 | 0°11  | 18°55  | 18°47 | 17°49 | n.a. |   |   |   |   |   |   |   |   |  |
| F 28 | 19 13 43 | 16°52'03  | 29°15  | 1° 4   | 11°10  | 3°33  | 18°28 | 7°23 | 15°11  | 18° 4 | 0°12  | 18°55  | 18°44 | 17°55 | n.a. |   |   |   |   |   |   |   |   |  |
| S 29 | 19 17 39 | 17°50'36  | 11II49 | 1°20   | 11°28  | 3°36  | 18°37 | 7°26 | 15° 9  | 18° 6 | 0°14  | 18°55  | 18°41 | 18° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| S 30 | 19 21 36 | 18°49'11  | 24°10  | 1°44   | 11°49  | 3°37  | 18°47 | 7°29 | 15° 7  | 18° 8 | 0°15  | 18°D55 | 18°37 | 18° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| M31  | 19 25 33 | 19☽47'48  | 6☽21   | 2☽18   | 12II11 | 3°R38 | 18♃57 | 7♄32 | 15♁ 4  | 18☽11 | 0II16 | 18☽55  | 18☽34 | 18♌15 | n.a. |   |   |   |   |   |   |   |   |  |

Delta T = 13h35m38s Julian Calendar 1 July 2021 BCE == Greg. Calendar 14 June 2021 BCE  
 The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

AUGUST 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♁      | ♂     | ♃       | ♄    | ♅      | ♆     | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ | ♎ | ♏ | ♐ | ♑ | ♒ | ♓ |  |
|------|----------|----------|-------|-------|--------|-------|---------|------|--------|-------|-------|--------|-------|-------|------|---|---|---|---|---|---|---|---|--|
| T 1  | 19 29 29 | 20☽46'28 | 18☽23 | 3☽ 0  | 12II35 | 3°R38 | 19♃ 6   | 7♄35 | 15°R 2 | 18☽13 | 0II17 | 18°R55 | 18☽31 | 18♌22 | n.a. |   |   |   |   |   |   |   |   |  |
| W 2  | 19 33 26 | 21°45'09 | 0♌18  | 3°51  | 13° 1  | 3♃36  | 19°15   | 7°38 | 15♁ 0  | 18°15 | 0°18  | 18☽55  | 18°28 | 18°29 | n.a. |   |   |   |   |   |   |   |   |  |
| T 3  | 19 37 22 | 22°43'53 | 12° 8 | 4°49  | 13°28  | 3°34  | 19°25   | 7°41 | 14°58  | 18°17 | 0°19  | 18°55  | 18°25 | 18°35 | n.a. |   |   |   |   |   |   |   |   |  |
| F 4  | 19 41 19 | 23°42'39 | 23°56 | 5°54  | 13°57  | 3°31  | 19°34   | 7°45 | 14°56  | 18°20 | 0°20  | 18°54  | 18°22 | 18°42 | n.a. |   |   |   |   |   |   |   |   |  |
| S 5  | 19 45 15 | 24°41'27 | 5♍45  | 7° 6  | 14°27  | 3°27  | 19°43   | 7°48 | 14°54  | 18°22 | 0°21  | 18°53  | 18°18 | 18°49 | n.a. |   |   |   |   |   |   |   |   |  |
| S 6  | 19 49 12 | 25°40'16 | 17°36 | 8°24  | 14°59  | 3°23  | 19°52   | 7°51 | 14°51  | 18°24 | 0°22  | 18°53  | 18°15 | 18°55 | n.a. |   |   |   |   |   |   |   |   |  |
| M 7  | 19 53 8  | 26°39'08 | 29°34 | 9°47  | 15°32  | 3°17  | 20° 0   | 7°55 | 14°49  | 18°26 | 0°23  | 18°52  | 18°12 | 19° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| T 8  | 19 57 5  | 27°38'02 | 11♁43 | 11°16 | 16° 7  | 3°10  | 20° 9   | 7°59 | 14°47  | 18°29 | 0°24  | 18°51  | 18° 9 | 19° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| W 9  | 20 1 2   | 28°36'57 | 24° 6 | 12°48 | 16°43  | 3° 3  | 20°18   | 8° 2 | 14°44  | 18°31 | 0°25  | 18°D51 | 18° 6 | 19°15 | n.a. |   |   |   |   |   |   |   |   |  |
| T 10 | 20 4 58  | 29°35'55 | 6♌48  | 14°24 | 17°20  | 2°55  | 20°26   | 8° 6 | 14°42  | 18°33 | 0°26  | 18°51  | 18° 2 | 19°22 | n.a. |   |   |   |   |   |   |   |   |  |
| F 11 | 20 8 55  | 0♌34'55  | 19°53 | 16° 3 | 17°59  | 2°46  | 20°34   | 8°10 | 14°40  | 18°35 | 0°27  | 18°51  | 17°59 | 19°29 | n.a. |   |   |   |   |   |   |   |   |  |
| S 12 | 20 12 51 | 1°33'56  | 3♁23  | 17°44 | 18°38  | 2°36  | 20°42   | 8°14 | 14°37  | 18°37 | 0°28  | 18°52  | 17°56 | 19°35 | n.a. |   |   |   |   |   |   |   |   |  |
| S 13 | 20 16 48 | 2°32'59  | 17°21 | 19°27 | 19°19  | 2°25  | 20°50   | 8°18 | 14°35  | 18°40 | 0°29  | 18°53  | 17°53 | 19°42 | n.a. |   |   |   |   |   |   |   |   |  |
| M14  | 20 20 44 | 3°32'05  | 1♃45  | 21°12 | 20° 1  | 2°13  | 20°58   | 8°22 | 14°33  | 18°42 | 0°30  | 18°54  | 17°50 | 19°49 | n.a. |   |   |   |   |   |   |   |   |  |
| T 15 | 20 24 41 | 4°31'13  | 16°32 | 22°59 | 20°44  | 2° 1  | 21° 6   | 8°26 | 14°30  | 18°44 | 0°31  | 18°R55 | 17°47 | 19°55 | n.a. |   |   |   |   |   |   |   |   |  |
| W16  | 20 28 37 | 5°30'22  | 1♁36  | 24°46 | 21°28  | 1°48  | 21°14   | 8°31 | 14°28  | 18°46 | 0°31  | 18°54  | 17°43 | 20° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| T 17 | 20 32 34 | 6°29'34  | 16°48 | 26°33 | 22°13  | 1°34  | 21°21   | 8°35 | 14°26  | 18°48 | 0°32  | 18°53  | 17°40 | 20° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| F 18 | 20 36 31 | 7°28'48  | 1♃59  | 28°21 | 22°58  | 1°19  | 21°28   | 8°39 | 14°23  | 18°50 | 0°33  | 18°51  | 17°37 | 20°15 | n.a. |   |   |   |   |   |   |   |   |  |
| S 19 | 20 40 27 | 8°28'04  | 17° 0 | 0♌10  | 23°45  | 1° 4  | 21°35   | 8°44 | 14°21  | 18°52 | 0°34  | 18°49  | 17°34 | 20°22 | n.a. |   |   |   |   |   |   |   |   |  |
| S 20 | 20 44 24 | 9°27'23  | 1♃41  | 1°58  | 24°33  | 0°48  | 21°42   | 8°48 | 14°18  | 18°55 | 0°35  | 18°46  | 17°31 | 20°29 | n.a. |   |   |   |   |   |   |   |   |  |
| M21  | 20 48 20 | 10°26'44 | 15°59 | 3°46  | 25°21  | 0°32  | 21°49   | 8°53 | 14°16  | 18°57 | 0°35  | 18°44  | 17°28 | 20°35 | n.a. |   |   |   |   |   |   |   |   |  |
| T 22 | 20 52 17 | 11°26'08 | 29°50 | 5°33  | 26°11  | 0°15  | 21°56   | 8°58 | 14°14  | 18°59 | 0°36  | 18°42  | 17°24 | 20°42 | n.a. |   |   |   |   |   |   |   |   |  |
| W23  | 20 56 13 | 12°25'34 | 13♃14 | 7°20  | 27° 1  | 29♁57 | 22° 3   | 9° 3 | 14°11  | 19° 1 | 0°37  | 18°D42 | 17°21 | 20°49 | n.a. |   |   |   |   |   |   |   |   |  |
| T 24 | 21 0 10  | 13°25'03 | 26°14 | 9° 7  | 27°52  | 29°39 | 22° 9   | 9° 7 | 14° 9  | 19° 3 | 0°37  | 18°42  | 17°18 | 20°55 | n.a. |   |   |   |   |   |   |   |   |  |
| F 25 | 21 4 6   | 14°24'35 | 8II53 | 10°53 | 28°44  | 29°20 | 22°15   | 9°12 | 14° 6  | 19° 5 | 0°38  | 18°44  | 17°15 | 21° 2 | n.a. |   |   |   |   |   |   |   |   |  |
| S 26 | 21 8 3   | 15°24'08 | 21°15 | 12°39 | 29°36  | 29° 1 | 22°21   | 9°17 | 14° 4  | 19° 7 | 0°38  | 18°46  | 17°12 | 21° 9 | n.a. |   |   |   |   |   |   |   |   |  |
| S 27 | 21 12 0  | 16°23'45 | 3☽24  | 14°24 | 0☽29   | 28°41 | 22°27   | 9°22 | 14° 1  | 19° 9 | 0°39  | 18°47  | 17° 8 | 21°15 | n.a. |   |   |   |   |   |   |   |   |  |
| M28  | 21 15 56 | 17°23'23 | 15°24 | 16° 8 | 1°23   | 28°21 | 22°33</ |      |        |       |       |        |       |       |      |   |   |   |   |   |   |   |   |  |

SWISS EPHEMERIS for the year 2021 BCE

SEPTEMBER 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                     | ♀                   | ♁                   | ♂                   | ♃                   | ♄                   | ♅                   | ♆                   | ♇                  | ♈                    | ♉                   | ♊                   | ♋    | ♌ | ♍ |
|------|----------|------------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|----------------------|---------------------|---------------------|------|---|---|
| F 1  | 21 31 42 | 21 <sup>h</sup> 22'20" | 2 <sup>h</sup> 44'    | 22 <sup>h</sup> 59' | 5 <sup>h</sup> 4'   | 26 <sup>h</sup> R59 | 22 <sup>h</sup> 55' | 9 <sup>h</sup> 48'  | 13 <sup>h</sup> R49 | 19 <sup>h</sup> 59' | 0 <sup>h</sup> 42' | 18 <sup>h</sup> R38  | 16 <sup>h</sup> 53' | 21 <sup>h</sup> 49' | n.a. |   |   |
| S 2  | 21 35 39 | 22 <sup>h</sup> 22'10" | 14 <sup>h</sup> 35'   | 24 <sup>h</sup> 40' | 6 <sup>h</sup> 1'   | 26 <sup>h</sup> 38' | 23 <sup>h</sup> 0'  | 9 <sup>h</sup> 54'  | 13 <sup>h</sup> 47' | 19 <sup>h</sup> 21' | 0 <sup>h</sup> 42' | 18 <sup>h</sup> 31'  | 16 <sup>h</sup> 49' | 21 <sup>h</sup> 56' | n.a. |   |   |
| S 3  | 21 39 35 | 23 <sup>h</sup> 22'02" | 26 <sup>h</sup> 32'   | 26 <sup>h</sup> 20' | 6 <sup>h</sup> 58'  | 26 <sup>h</sup> 17' | 23 <sup>h</sup> 4'  | 9 <sup>h</sup> 59'  | 13 <sup>h</sup> 44' | 19 <sup>h</sup> 23' | 0 <sup>h</sup> 42' | 18 <sup>h</sup> 25'  | 16 <sup>h</sup> 46' | 22 <sup>h</sup> 2'  | n.a. |   |   |
| M 4  | 21 43 32 | 24 <sup>h</sup> 21'55" | 8 <sup>h</sup> 35'    | 28 <sup>h</sup> 0'  | 7 <sup>h</sup> 56'  | 25 <sup>h</sup> 57' | 23 <sup>h</sup> 9'  | 10 <sup>h</sup> 5'  | 13 <sup>h</sup> 42' | 19 <sup>h</sup> 25' | 0 <sup>h</sup> 43' | 18 <sup>h</sup> 18'  | 16 <sup>h</sup> 43' | 22 <sup>h</sup> 9'  | n.a. |   |   |
| T 5  | 21 47 29 | 25 <sup>h</sup> 21'51" | 20 <sup>h</sup> 47'   | 29 <sup>h</sup> 39' | 8 <sup>h</sup> 54'  | 25 <sup>h</sup> 36' | 23 <sup>h</sup> 14' | 10 <sup>h</sup> 10' | 13 <sup>h</sup> 40' | 19 <sup>h</sup> 27' | 0 <sup>h</sup> 43' | 18 <sup>h</sup> 13'  | 16 <sup>h</sup> 40' | 22 <sup>h</sup> 16' | n.a. |   |   |
| W 6  | 21 51 25 | 26 <sup>h</sup> 21'49" | 3 <sup>h</sup> 11'    | 1 <sup>h</sup> 17'  | 9 <sup>h</sup> 53'  | 25 <sup>h</sup> 15' | 23 <sup>h</sup> 18' | 10 <sup>h</sup> 16' | 13 <sup>h</sup> 37' | 19 <sup>h</sup> 29' | 0 <sup>h</sup> 43' | 18 <sup>h</sup> 9'   | 16 <sup>h</sup> 37' | 22 <sup>h</sup> 22' | n.a. |   |   |
| T 7  | 21 55 22 | 27 <sup>h</sup> 21'48" | 15 <sup>h</sup> 51'   | 2 <sup>h</sup> 55'  | 10 <sup>h</sup> 52' | 24 <sup>h</sup> 55' | 23 <sup>h</sup> 22' | 10 <sup>h</sup> 22' | 13 <sup>h</sup> 35' | 19 <sup>h</sup> 31' | 0 <sup>h</sup> 44' | 18 <sup>h</sup> 6'   | 16 <sup>h</sup> 33' | 22 <sup>h</sup> 29' | n.a. |   |   |
| F 8  | 21 59 18 | 28 <sup>h</sup> 21'49" | 28 <sup>h</sup> 49'   | 4 <sup>h</sup> 32'  | 11 <sup>h</sup> 52' | 24 <sup>h</sup> 34' | 23 <sup>h</sup> 26' | 10 <sup>h</sup> 27' | 13 <sup>h</sup> 33' | 19 <sup>h</sup> 32' | 0 <sup>h</sup> 44' | 18 <sup>h</sup> D 5  | 16 <sup>h</sup> 30' | 22 <sup>h</sup> 36' | n.a. |   |   |
| S 9  | 22 3 15  | 29 <sup>h</sup> 21'52" | 12 <sup>h</sup> 7'9"  | 6 <sup>h</sup> 9'   | 12 <sup>h</sup> 52' | 24 <sup>h</sup> 14' | 23 <sup>h</sup> 30' | 10 <sup>h</sup> 33' | 13 <sup>h</sup> 30' | 19 <sup>h</sup> 34' | 0 <sup>h</sup> 44' | 18 <sup>h</sup> 6'   | 16 <sup>h</sup> 27' | 22 <sup>h</sup> 42' | n.a. |   |   |
| S 10 | 22 7 11  | 0 <sup>h</sup> 21'57"  | 25 <sup>h</sup> 54'   | 7 <sup>h</sup> 45'  | 13 <sup>h</sup> 52' | 23 <sup>h</sup> 55' | 23 <sup>h</sup> 33' | 10 <sup>h</sup> 39' | 13 <sup>h</sup> 28' | 19 <sup>h</sup> 36' | 0 <sup>h</sup> 44' | 18 <sup>h</sup> 7'   | 16 <sup>h</sup> 24' | 22 <sup>h</sup> 49' | n.a. |   |   |
| M 11 | 22 11 8  | 1 <sup>h</sup> 22'04"  | 10 <sup>h</sup> 3'5"  | 9 <sup>h</sup> 20'  | 14 <sup>h</sup> 53' | 23 <sup>h</sup> 35' | 23 <sup>h</sup> 36' | 10 <sup>h</sup> 45' | 13 <sup>h</sup> 26' | 19 <sup>h</sup> 38' | 0 <sup>h</sup> 45' | 18 <sup>h</sup> 9'   | 16 <sup>h</sup> 21' | 22 <sup>h</sup> 56' | n.a. |   |   |
| T 12 | 22 15 4  | 2 <sup>h</sup> 22'13"  | 24 <sup>h</sup> 41'   | 10 <sup>h</sup> 55' | 15 <sup>h</sup> 55' | 23 <sup>h</sup> 17' | 23 <sup>h</sup> 40' | 10 <sup>h</sup> 51' | 13 <sup>h</sup> 23' | 19 <sup>h</sup> 40' | 0 <sup>h</sup> 45' | 18 <sup>h</sup> R 9  | 16 <sup>h</sup> 18' | 23 <sup>h</sup> 2'  | n.a. |   |   |
| W 13 | 22 19 1  | 3 <sup>h</sup> 22'23"  | 9 <sup>h</sup> 38'    | 12 <sup>h</sup> 29' | 16 <sup>h</sup> 56' | 22 <sup>h</sup> 58' | 23 <sup>h</sup> 43' | 10 <sup>h</sup> 57' | 13 <sup>h</sup> 21' | 19 <sup>h</sup> 41' | 0 <sup>h</sup> 45' | 18 <sup>h</sup> 7'   | 16 <sup>h</sup> 14' | 23 <sup>h</sup> 9'  | n.a. |   |   |
| T 14 | 22 22 58 | 4 <sup>h</sup> 22'35"  | 24 <sup>h</sup> 50'   | 14 <sup>h</sup> 3'  | 17 <sup>h</sup> 59' | 22 <sup>h</sup> 40' | 23 <sup>h</sup> 45' | 11 <sup>h</sup> 3'  | 13 <sup>h</sup> 19' | 19 <sup>h</sup> 43' | 0 <sup>h</sup> 45' | 18 <sup>h</sup> 3'   | 16 <sup>h</sup> 11' | 23 <sup>h</sup> 16' | n.a. |   |   |
| F 15 | 22 26 54 | 5 <sup>h</sup> 22'49"  | 10 <sup>h</sup> 7'    | 15 <sup>h</sup> 37' | 19 <sup>h</sup> 1'  | 22 <sup>h</sup> 23' | 23 <sup>h</sup> 48' | 11 <sup>h</sup> 9'  | 13 <sup>h</sup> 17' | 19 <sup>h</sup> 45' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 57'  | 16 <sup>h</sup> 8'  | 23 <sup>h</sup> 22' | n.a. |   |   |
| S 16 | 22 30 51 | 6 <sup>h</sup> 23'05"  | 25 <sup>h</sup> 18'   | 17 <sup>h</sup> 10' | 20 <sup>h</sup> 4'  | 22 <sup>h</sup> 6'  | 23 <sup>h</sup> 50' | 11 <sup>h</sup> 15' | 13 <sup>h</sup> 15' | 19 <sup>h</sup> 46' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 50'  | 16 <sup>h</sup> 5'  | 23 <sup>h</sup> 29' | n.a. |   |   |
| S 17 | 22 34 47 | 7 <sup>h</sup> 23'23"  | 10 <sup>h</sup> 13'   | 18 <sup>h</sup> 42' | 21 <sup>h</sup> 7'  | 21 <sup>h</sup> 50' | 23 <sup>h</sup> 53' | 11 <sup>h</sup> 21' | 13 <sup>h</sup> 12' | 19 <sup>h</sup> 48' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 42'  | 16 <sup>h</sup> 2'  | 23 <sup>h</sup> 36' | n.a. |   |   |
| M 18 | 22 38 44 | 8 <sup>h</sup> 23'43"  | 24 <sup>h</sup> 44'   | 20 <sup>h</sup> 14' | 22 <sup>h</sup> 11' | 21 <sup>h</sup> 34' | 23 <sup>h</sup> 55' | 11 <sup>h</sup> 27' | 13 <sup>h</sup> 10' | 19 <sup>h</sup> 50' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 35'  | 15 <sup>h</sup> 59' | 23 <sup>h</sup> 42' | n.a. |   |   |
| T 19 | 22 42 40 | 9 <sup>h</sup> 24'05"  | 8 <sup>h</sup> 46'    | 21 <sup>h</sup> 46' | 23 <sup>h</sup> 15' | 21 <sup>h</sup> 19' | 23 <sup>h</sup> 57' | 11 <sup>h</sup> 33' | 13 <sup>h</sup> 8'  | 19 <sup>h</sup> 51' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 29'  | 15 <sup>h</sup> 55' | 23 <sup>h</sup> 49' | n.a. |   |   |
| W 20 | 22 46 37 | 10 <sup>h</sup> 24'29" | 22 <sup>h</sup> 17'   | 23 <sup>h</sup> 17' | 24 <sup>h</sup> 19' | 21 <sup>h</sup> 5'  | 23 <sup>h</sup> 58' | 11 <sup>h</sup> 40' | 13 <sup>h</sup> 6'  | 19 <sup>h</sup> 53' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 25'  | 15 <sup>h</sup> 52' | 23 <sup>h</sup> 56' | n.a. |   |   |
| T 21 | 22 50 33 | 11 <sup>h</sup> 24'56" | 5 <sup>h</sup> 11'21" | 24 <sup>h</sup> 48' | 25 <sup>h</sup> 24' | 20 <sup>h</sup> 51' | 24 <sup>h</sup> 0'  | 11 <sup>h</sup> 46' | 13 <sup>h</sup> 4'  | 19 <sup>h</sup> 54' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 23'  | 15 <sup>h</sup> 49' | 24 <sup>h</sup> 2'  | n.a. |   |   |
| F 22 | 22 54 30 | 12 <sup>h</sup> 25'24" | 18 <sup>h</sup> 0'    | 26 <sup>h</sup> 18' | 26 <sup>h</sup> 29' | 20 <sup>h</sup> 38' | 24 <sup>h</sup> 1'  | 11 <sup>h</sup> 52' | 13 <sup>h</sup> 2'  | 19 <sup>h</sup> 56' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> D 23 | 15 <sup>h</sup> 46' | 24 <sup>h</sup> 9'  | n.a. |   |   |
| S 23 | 22 58 26 | 13 <sup>h</sup> 25'55" | 0 <sup>h</sup> 19'    | 27 <sup>h</sup> 48' | 27 <sup>h</sup> 34' | 20 <sup>h</sup> 26' | 24 <sup>h</sup> 2'  | 11 <sup>h</sup> 59' | 13 <sup>h</sup> 0'  | 19 <sup>h</sup> 57' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 24'  | 15 <sup>h</sup> 43' | 24 <sup>h</sup> 16' | n.a. |   |   |
| S 24 | 23 2 23  | 14 <sup>h</sup> 26'28" | 12 <sup>h</sup> 22'   | 29 <sup>h</sup> 17' | 28 <sup>h</sup> 40' | 20 <sup>h</sup> 14' | 24 <sup>h</sup> 3'  | 12 <sup>h</sup> 5'  | 12 <sup>h</sup> 58' | 19 <sup>h</sup> 59' | 0 <sup>h</sup> 45' | 17 <sup>h</sup> R 25 | 15 <sup>h</sup> 39' | 24 <sup>h</sup> 22' | n.a. |   |   |
| M 25 | 23 6 20  | 15 <sup>h</sup> 27'03" | 24 <sup>h</sup> 16'   | 0 <sup>h</sup> 46'  | 29 <sup>h</sup> 46' | 20 <sup>h</sup> 4'  | 24 <sup>h</sup> 4'  | 12 <sup>h</sup> 12' | 12 <sup>h</sup> 56' | 20 <sup>h</sup> 0'  | 0 <sup>h</sup> 45' | 17 <sup>h</sup> 25'  | 15 <sup>h</sup> 36' | 24 <sup>h</sup> 29' | n.a. |   |   |
| T 26 | 23 10 16 | 16 <sup>h</sup> 27'40" | 6 <sup>h</sup> 5'     | 2 <sup>h</sup> 14'  | 0 <sup>h</sup> 52'  | 19 <sup>h</sup> 54' | 24 <sup>h</sup> 4'  | 12 <sup>h</sup> 18' | 12 <sup>h</sup> 54' | 20 <sup>h</sup> 2'  | 0 <sup>h</sup> 44' | 17 <sup>h</sup> 23'  | 15 <sup>h</sup> 33' | 24 <sup>h</sup> 36' | n.a. |   |   |
| W 27 | 23 14 13 | 17 <sup>h</sup> 28'18" | 17 <sup>h</sup> 52'   | 3 <sup>h</sup> 42'  | 1 <sup>h</sup> 58'  | 19 <sup>h</sup> 45' | 24 <sup>h</sup> 4'  | 12 <sup>h</sup> 25' | 12 <sup>h</sup> 52' | 20 <sup>h</sup> 3'  | 0 <sup>h</sup> 44' | 17 <sup>h</sup> 18'  | 15 <sup>h</sup> 30' | 24 <sup>h</sup> 42' | n.a. |   |   |
| T 28 | 23 18 9  | 18 <sup>h</sup> 28'59" | 29 <sup>h</sup> 41'   | 5 <sup>h</sup> 10'  | 3 <sup>h</sup> 5'   | 19 <sup>h</sup> 36' | 24 <sup>h</sup> R 5 | 12 <sup>h</sup> 31' | 12 <sup>h</sup> 50' | 20 <sup>h</sup> 5'  | 0 <sup>h</sup> 44' | 17 <sup>h</sup> 11'  | 15 <sup>h</sup> 27' | 24 <sup>h</sup> 49' | n.a. |   |   |
| F 29 | 23 22 6  | 19 <sup>h</sup> 29'41" | 11 <sup>h</sup> 34'   | 6 <sup>h</sup> 37'  | 4 <sup>h</sup> 12'  | 19 <sup>h</sup> 29' | 24 <sup>h</sup> 4'  | 12 <sup>h</sup> 38' | 12 <sup>h</sup> 49' | 20 <sup>h</sup> 6'  | 0 <sup>h</sup> 44' | 17 <sup>h</sup> 1'   | 15 <sup>h</sup> 24' | 24 <sup>h</sup> 56' | n.a. |   |   |
| S 30 | 23 26 2  | 20 <sup>h</sup> 30'25" | 23 <sup>h</sup> 33'   | 8 <sup>h</sup> 3'   | 5 <sup>h</sup> 19'  | 19 <sup>h</sup> 22' | 24 <sup>h</sup> 4'  | 12 <sup>h</sup> 45' | 12 <sup>h</sup> 47' | 20 <sup>h</sup> 7'  | 0 <sup>h</sup> 44' | 16 <sup>h</sup> 54'  | 15 <sup>h</sup> 20' | 25 <sup>h</sup> 12' | n.a. |   |   |

Delta T = 13h35m34s Julian Calendar 1 Sept. 2021 BCE == Greg. Calendar 15 Aug. 2021 BCE  
 The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

OCTOBER 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                     | ♀                     | ♁                   | ♂                    | ♃                   | ♄                   | ♅                   | ♆                   | ♇                  | ♈                    | ♉                   | ♊                   | ♋    | ♌ | ♍ |
|------|----------|------------------------|-----------------------|-----------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|----------------------|---------------------|---------------------|------|---|---|
| S 1  | 23 29 59 | 21 <sup>h</sup> 31'10" | 5 <sup>h</sup> 39'    | 9 <sup>h</sup> 29'    | 6 <sup>h</sup> 26'  | 19 <sup>h</sup> R16  | 24 <sup>h</sup> R 4 | 12 <sup>h</sup> 51' | 12 <sup>h</sup> R45 | 20 <sup>h</sup> 8'  | 0 <sup>h</sup> R43 | 16 <sup>h</sup> R36  | 15 <sup>h</sup> 17' | 25 <sup>h</sup> 12' | n.a. |   |   |
| M 2  | 23 33 55 | 22 <sup>h</sup> 31'57" | 17 <sup>h</sup> 53'   | 10 <sup>h</sup> 53'   | 7 <sup>h</sup> 34'  | 19 <sup>h</sup> 11'  | 24 <sup>h</sup> 3'  | 12 <sup>h</sup> 58' | 12 <sup>h</sup> 43' | 20 <sup>h</sup> 10' | 0 <sup>h</sup> 43' | 16 <sup>h</sup> 23'  | 15 <sup>h</sup> 14' | 25 <sup>h</sup> 16' | n.a. |   |   |
| T 3  | 23 37 52 | 23 <sup>h</sup> 32'45" | 0 <sup>h</sup> 16'    | 12 <sup>h</sup> 18'   | 8 <sup>h</sup> 41'  | 19 <sup>h</sup> 7'   | 24 <sup>h</sup> 2'  | 13 <sup>h</sup> 5'  | 12 <sup>h</sup> 42' | 20 <sup>h</sup> 11' | 0 <sup>h</sup> 42' | 16 <sup>h</sup> 12'  | 15 <sup>h</sup> 11' | 25 <sup>h</sup> 22' | n.a. |   |   |
| W 4  | 23 41 49 | 24 <sup>h</sup> 33'35" | 12 <sup>h</sup> 50'   | 13 <sup>h</sup> 41'   | 9 <sup>h</sup> 49'  | 19 <sup>h</sup> 4'   | 24 <sup>h</sup> 1'  | 13 <sup>h</sup> 11' | 12 <sup>h</sup> 40' | 20 <sup>h</sup> 12' | 0 <sup>h</sup> 42' | 16 <sup>h</sup> 3'   | 15 <sup>h</sup> 8'  | 25 <sup>h</sup> 29' | n.a. |   |   |
| T 5  | 23 45 45 | 25 <sup>h</sup> 34'26" | 25 <sup>h</sup> 35'   | 15 <sup>h</sup> 3'    | 10 <sup>h</sup> 58' | 19 <sup>h</sup> 1'   | 23 <sup>h</sup> 59' | 13 <sup>h</sup> 18' | 12 <sup>h</sup> 38' | 20 <sup>h</sup> 13' | 0 <sup>h</sup> 42' | 15 <sup>h</sup> 56'  | 15 <sup>h</sup> 5'  | 25 <sup>h</sup> 36' | n.a. |   |   |
| F 6  | 23 49 42 | 26 <sup>h</sup> 35'19" | 8 <sup>h</sup> 34'    | 16 <sup>h</sup> 24'   | 12 <sup>h</sup> 6'  | 18 <sup>h</sup> 59'  | 23 <sup>h</sup> 58' | 13 <sup>h</sup> 25' | 12 <sup>h</sup> 37' | 20 <sup>h</sup> 14' | 0 <sup>h</sup> 41' | 15 <sup>h</sup> 52'  | 15 <sup>h</sup> 1'  | 25 <sup>h</sup> 42' | n.a. |   |   |
| S 7  | 23 53 38 | 27 <sup>h</sup> 36'12" | 21 <sup>h</sup> 50'   | 17 <sup>h</sup> 44'   | 13 <sup>h</sup> 15' | 18 <sup>h</sup> 58'  | 23 <sup>h</sup> 56' | 13 <sup>h</sup> 32' | 12 <sup>h</sup> 35' | 20 <sup>h</sup> 16' | 0 <sup>h</sup> 41' | 15 <sup>h</sup> 51'  | 14 <sup>h</sup> 58' | 25 <sup>h</sup> 49' | n.a. |   |   |
| S 8  | 23 57 35 | 28 <sup>h</sup> 37'07" | 5 <sup>h</sup> 25'    | 19 <sup>h</sup> 3'    | 14 <sup>h</sup> 24' | 18 <sup>h</sup> D 58 | 23 <sup>h</sup> 54' | 13 <sup>h</sup> 38' | 12 <sup>h</sup> 34' | 20 <sup>h</sup> 17' | 0 <sup>h</sup> 40' | 15 <sup>h</sup> D 51 | 14 <sup>h</sup> 55' | 25 <sup>h</sup> 56' | n.a. |   |   |
| M 9  | 0 1 31   | 29 <sup>h</sup> 38'02" | 19 <sup>h</sup> 21'   | 20 <sup>h</sup> 20'   | 15 <sup>h</sup> 33' | 18 <sup>h</sup> 59'  | 23 <sup>h</sup> 52' | 13 <sup>h</sup> 45' | 12 <sup>h</sup> 32' | 20 <sup>h</sup> 18' | 0 <sup>h</sup> 40' | 15 <sup>h</sup> R 51 | 14 <sup>h</sup> 52' | 26 <sup>h</sup> 3'  | n.a. |   |   |
| T 10 | 0 5 28   | 0 <sup>h</sup> 38'59"  | 3 <sup>h</sup> 38'    | 21 <sup>h</sup> 35'   | 16 <sup>h</sup> 42' | 19 <sup>h</sup> 1'   | 23 <sup>h</sup> 50' | 13 <sup>h</sup> 52' | 12 <sup>h</sup> 31' | 20 <sup>h</sup> 19' | 0 <sup>h</sup> 39' | 15 <sup>h</sup> 50'  | 14 <sup>h</sup> 49' | 26 <sup>h</sup> 9'  | n.a. |   |   |
| W 11 | 0 9 24   | 1 <sup>h</sup> 39'57"  | 18 <sup>h</sup> 16'   | 22 <sup>h</sup> 48'   | 17 <sup>h</sup> 51' | 19 <sup>h</sup> 3'   | 23 <sup>h</sup> 47' | 13 <sup>h</sup> 59' | 12 <sup>h</sup> 30' | 20 <sup>h</sup> 20' | 0 <sup>h</sup> 39' | 15 <sup>h</sup> 47'  | 14 <sup>h</sup> 45' | 26 <sup>h</sup> 16' | n.a. |   |   |
| T 12 | 0 13 21  | 2 <sup>h</sup> 40'56"  | 3 <sup>h</sup> 10'    | 23 <sup>h</sup> 59'   | 19 <sup>h</sup> 1'  | 19 <sup>h</sup> 6'   | 23 <sup>h</sup> 45' | 14 <sup>h</sup> 6'  | 12 <sup>h</sup> 28' | 20 <sup>h</sup> 21' | 0 <sup>h</sup> 38' | 15 <sup>h</sup> 41'  | 14 <sup>h</sup> 42' | 26 <sup>h</sup> 23' | n.a. |   |   |
| F 13 | 0 17 18  | 3 <sup>h</sup> 41'55"  | 18 <sup>h</sup> 14'   | 25 <sup>h</sup> 7'    | 20 <sup>h</sup> 10' | 19 <sup>h</sup> 10'  | 23 <sup>h</sup> 42' | 14 <sup>h</sup> 13' | 12 <sup>h</sup> 27' | 20 <sup>h</sup> 22' | 0 <sup>h</sup> 37' | 15 <sup>h</sup> 32'  | 14 <sup>h</sup> 39' | 26 <sup>h</sup> 29' | n.a. |   |   |
| S 14 | 0 21 14  | 4 <sup>h</sup> 42'56"  | 3 <sup>h</sup> 16'    | 26 <sup>h</sup> 12'   | 21 <sup>h</sup> 20' | 19 <sup>h</sup> 14'  | 23 <sup>h</sup> 39' | 14 <sup>h</sup> 20' | 12 <sup>h</sup> 26' | 20 <sup>h</sup> 22' | 0 <sup>h</sup> 37' | 15 <sup>h</sup> 21'  | 14 <sup>h</sup> 36' | 26 <sup>h</sup> 36' | n.a. |   |   |
| S 15 | 0 25 11  | 5 <sup>h</sup> 43'58"  | 18 <sup>h</sup> 9'    | 27 <sup>h</sup> 13'   | 22 <sup>h</sup> 30' | 19 <sup>h</sup> 20'  | 23 <sup>h</sup> 35' | 14 <sup>h</sup> 27' | 12 <sup>h</sup> 25' | 20 <sup>h</sup> 23' | 0 <sup>h</sup> 36' | 15 <sup>h</sup> 9'   | 14 <sup>h</sup> 33' | 26 <sup>h</sup> 43' | n.a. |   |   |
| M 16 | 0 29 7   | 6 <sup>h</sup> 45'01"  | 2 <sup>h</sup> 42'    | 28 <sup>h</sup> 10'   | 23 <sup>h</sup> 40' | 19 <sup>h</sup> 26'  | 23 <sup>h</sup> 32' | 14 <sup>h</sup> 34' | 12 <sup>h</sup> 23' | 20 <sup>h</sup> 24' | 0 <sup>h</sup> 35' | 14 <sup>h</sup> 57'  | 14 <sup>h</sup> 30' | 26 <sup>h</sup> 49' | n.a. |   |   |
| T 17 | 0 33 4   | 7 <sup>h</sup> 46'05"  | 16 <sup>h</sup> 50'   | 29 <sup>h</sup> 3'    | 24 <sup>h</sup> 51' | 19 <sup>h</sup> 32'  | 23 <sup>h</sup> 28' | 14 <sup>h</sup> 41' | 12 <sup>h</sup> 22' | 20 <sup>h</sup> 25' | 0 <sup>h</sup> 35' | 14 <sup>h</sup> 47'  | 14 <sup>h</sup> 26' | 26 <sup>h</sup> 56' | n.a. |   |   |
| W 18 | 0 37 0   | 8 <sup>h</sup> 47'11"  | 0 <sup>h</sup> 11'29" | 29 <sup>h</sup> 51'   | 26 <sup>h</sup> 1'  | 19 <sup>h</sup> 40'  | 23 <sup>h</sup> 24' | 14 <sup>h</sup> 47' | 12 <sup>h</sup> 21' | 20 <sup>h</sup> 26' | 0 <sup>h</sup> 34' | 14 <sup>h</sup> 40'  | 14 <sup>h</sup> 23' | 27 <sup>h</sup> 3'  | n.a. |   |   |
| T 19 | 0 40 57  | 9 <sup>h</sup> 48'18"  | 13 <sup>h</sup> 39'   | 0 <sup>h</sup> 11'33" | 27 <sup>h</sup> 12' | 19 <sup>h</sup> 48'  | 23 <sup>h</sup> 20' | 14 <sup>h</sup> 54' | 12 <sup>h</sup> 20' | 20 <sup>h</sup> 26' | 0 <sup>h</sup> 33' | 14 <sup>h</sup> 36'  | 14                  |                     |      |   |   |

SWISS EPHEMERIS for the year 2021 BCE

NOVEMBER 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t   | ☉         | ☽      | ♀      | ♁      | ♂      | ♃      | ♅      | ♁      | ♄      | ♁      | ♁      | ♁      | ♁      | ♁    |
|------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| W 1  | 1 32 12 | 23♁ 4'23  | 22♁ 35 | 25°R44 | 12♁ 41 | 22♁ 29 | 22°R12 | 16♁ 25 | 12°R12 | 20♁ 33 | 0°R22  | 12°R58 | 13♁ 39 | 28♁ 36 | n.a. |
| T 2  | 1 36 9  | 24° 5'43  | 5♁ 37  | 24♁ 21 | 13°54  | 22°46  | 22♁ 6  | 16°32  | 12♁ 11 | 20°33  | 0♁ 21  | 12♁ 50 | 13°36  | 28°43  | n.a. |
| F 3  | 1 40 5  | 25° 7'02  | 18°50  | 22°59  | 15° 6  | 23° 3  | 22° 0  | 16°39  | 12°11  | 20°33  | 0°20   | 12°46  | 13°32  | 28°50  | n.a. |
| S 4  | 1 44 2  | 26° 8'21  | 2♁ 14  | 21°39  | 16°18  | 23°20  | 21°53  | 16°46  | 12°11  | 20°33  | 0°19   | 12°44  | 13°29  | 28°56  | n.a. |
| S 5  | 1 47 58 | 27° 9'41  | 15°50  | 20°23  | 17°31  | 23°38  | 21°46  | 16°53  | 12°11  | 20°34  | 0°18   | 12°D43 | 13°26  | 29° 3  | n.a. |
| M 6  | 1 51 55 | 28°11'01  | 29°40  | 19°15  | 18°43  | 23°56  | 21°39  | 17° 0  | 12°11  | 20°34  | 0°17   | 12°R43 | 13°23  | 29°10  | n.a. |
| T 7  | 1 55 51 | 29°12'20  | 13♁ 44 | 18°15  | 19°56  | 24°15  | 21°33  | 17° 7  | 12°11  | 20°34  | 0°16   | 12°43  | 13°20  | 29°16  | n.a. |
| W 8  | 1 59 48 | 0♁ 13'40  | 28° 2  | 17°25  | 21° 9  | 24°34  | 21°26  | 17°14  | 12°D11 | 20°34  | 0°15   | 12°40  | 13°16  | 29°23  | n.a. |
| T 9  | 2 3 44  | 1°14'59   | 12♁ 32 | 16°46  | 22°21  | 24°54  | 21°18  | 17°21  | 12°11  | 20°R34 | 0°13   | 12°34  | 13°13  | 29°30  | n.a. |
| F 10 | 2 7 41  | 2°16'18   | 27° 9  | 16°18  | 23°34  | 25°14  | 21°11  | 17°27  | 12°11  | 20°34  | 0°12   | 12°26  | 13°10  | 29°36  | n.a. |
| S 11 | 2 11 38 | 3°17'37   | 11♀ 47 | 16° 0  | 24°47  | 25°35  | 21° 4  | 17°34  | 12°11  | 20°34  | 0°11   | 12°16  | 13° 7  | 29°43  | n.a. |
| S 12 | 2 15 34 | 4°18'56   | 26°19  | 15°D52 | 26° 0  | 25°56  | 20°56  | 17°41  | 12°11  | 20°34  | 0°10   | 12° 5  | 13° 4  | 29°50  | n.a. |
| M13  | 2 19 31 | 5°20'15   | 10♁ 38 | 15°54  | 27°13  | 26°17  | 20°49  | 17°48  | 12°11  | 20°34  | 0° 9   | 11°54  | 13° 1  | 29°56  | n.a. |
| T 14 | 2 23 27 | 6°21'34   | 24°37  | 16° 5  | 28°26  | 26°38  | 20°41  | 17°55  | 12°12  | 20°33  | 0° 8   | 11°44  | 12°57  | 0♁ 3   | n.a. |
| W15  | 2 27 24 | 7°22'53   | 8♁ 13  | 16°24  | 29°39  | 27° 0  | 20°34  | 18° 1  | 12°12  | 20°33  | 0° 7   | 11°37  | 12°54  | 0°10   | n.a. |
| T 16 | 2 31 20 | 8°24'12   | 21°24  | 16°51  | 0♁ 53  | 27°23  | 20°26  | 18° 8  | 12°12  | 20°33  | 0° 5   | 11°33  | 12°51  | 0°17   | n.a. |
| F 17 | 2 35 17 | 9°25'31   | 4♁ 10  | 17°24  | 2° 6   | 27°46  | 20°18  | 18°15  | 12°13  | 20°33  | 0° 4   | 11°31  | 12°48  | 0°23   | n.a. |
| S 18 | 2 39 13 | 10°26'50  | 16°36  | 18° 3  | 3°19   | 28° 9  | 20°10  | 18°21  | 12°13  | 20°32  | 0° 3   | 11°D30 | 12°45  | 0°30   | n.a. |
| S 19 | 2 43 10 | 11°28'09  | 28°44  | 18°48  | 4°32   | 28°32  | 20° 2  | 18°28  | 12°14  | 20°32  | 0° 2   | 11°31  | 12°41  | 0°37   | n.a. |
| M20  | 2 47 7  | 12°29'29  | 10♁ 41 | 19°37  | 5°46   | 28°56  | 19°54  | 18°35  | 12°15  | 20°32  | 0° 0   | 11°R32 | 12°38  | 0°43   | n.a. |
| T 21 | 2 51 3  | 13°30'48  | 22°32  | 20°31  | 6°59   | 29°20  | 19°46  | 18°41  | 12°15  | 20°31  | 29♁ 59 | 11°31  | 12°35  | 0°50   | n.a. |
| W22  | 2 55 0  | 14°32'07  | 4♁ 21  | 21°28  | 8°13   | 29°44  | 19°38  | 18°48  | 12°16  | 20°31  | 29°58  | 11°29  | 12°32  | 0°57   | n.a. |
| T 23 | 2 58 56 | 15°33'25  | 16°14  | 22°29  | 9°26   | 0♁ 9   | 19°30  | 18°54  | 12°17  | 20°30  | 29°57  | 11°24  | 12°29  | 1° 3   | n.a. |
| F 24 | 3 2 53  | 16°34'44  | 28°16  | 23°33  | 10°40  | 0°34   | 19°22  | 19° 1  | 12°18  | 20°30  | 29°55  | 11°17  | 12°26  | 1°10   | n.a. |
| S 25 | 3 6 49  | 17°36'02  | 10♁ 30 | 24°39  | 11°54  | 0°59   | 19°14  | 19° 7  | 12°18  | 20°29  | 29°54  | 11° 8  | 12°22  | 1°17   | n.a. |
| S 26 | 3 10 46 | 18°37'20  | 22°58  | 25°48  | 13° 7  | 1°24   | 19° 6  | 19°14  | 12°19  | 20°29  | 29°53  | 10°58  | 12°19  | 1°23   | n.a. |
| M27  | 3 14 42 | 19°38'37  | 5♁ 14  | 26°59  | 14°21  | 1°50   | 18°58  | 19°20  | 12°20  | 20°28  | 29°52  | 10°48  | 12°16  | 1°30   | n.a. |
| T 28 | 3 18 39 | 20°39'54  | 18°40  | 28°12  | 15°35  | 2°16   | 18°50  | 19°26  | 12°21  | 20°28  | 29°50  | 10°39  | 12°13  | 1°37   | n.a. |
| W29  | 3 22 36 | 21°41'11  | 1♁ 53  | 29°27  | 16°48  | 2°43   | 18°41  | 19°33  | 12°22  | 20°27  | 29°49  | 10°31  | 12°10  | 1°43   | n.a. |
| T 30 | 3 26 32 | 22♁ 42'26 | 15♁ 19 | 0♁ 43  | 18♁ 2  | 3♁ 9   | 18♁ 33 | 19♁ 39 | 12♁ 24 | 20♁ 26 | 29♁ 48 | 10♁ 26 | 12♁ 7  | 1♁ 50  | n.a. |

Delta T = 13h35m30s Julian Calendar 1 Nov. 2021 BCE == Greg. Calendar 15 Oct. 2021 BCE  
 The year -2020 astronomical counting style corresponds to year 2021 B.C.E historical counting style.

DECEMBER 2021 BCE (-2020) JC

00:00 UT

| Day  | Sid.t   | ☉         | ☽      | ♀      | ♁      | ♂      | ♃      | ♅      | ♁      | ♄      | ♁      | ♁      | ♁      | ♁     | ♁    |
|------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| F 1  | 3 30 29 | 23♁ 43'41 | 28♁ 56 | 2♁ 1   | 19♁ 16 | 3♁ 36  | 18°R25 | 19♁ 45 | 12♁ 25 | 20°R26 | 29°R46 | 10°R23 | 12♁ 3  | 1♁ 57 | n.a. |
| S 2  | 3 34 25 | 24°44'55  | 12♁ 41 | 3°20   | 20°30  | 4° 3   | 18♁ 17 | 19°51  | 12°26  | 20♁ 25 | 29♁ 45 | 10°D23 | 12° 0  | 2° 4  | n.a. |
| S 3  | 3 38 22 | 25°46'08  | 26°34  | 4°40   | 21°44  | 4°31   | 18° 9  | 19°57  | 12°27  | 20°24  | 29°44  | 10♁ 24 | 11°57  | 2°10  | n.a. |
| M 4  | 3 42 18 | 26°47'20  | 10♁ 34 | 6° 1   | 22°57  | 4°58   | 18° 1  | 20° 3  | 12°29  | 20°23  | 29°42  | 10°25  | 11°54  | 2°17  | n.a. |
| T 5  | 3 46 15 | 27°48'30  | 24°38  | 7°24   | 24°11  | 5°26   | 17°53  | 20° 9  | 12°30  | 20°22  | 29°41  | 10°R26 | 11°51  | 2°24  | n.a. |
| W 6  | 3 50 11 | 28°49'39  | 8♁ 47  | 8°47   | 25°25  | 5°54   | 17°46  | 20°15  | 12°31  | 20°21  | 29°40  | 10°25  | 11°47  | 2°30  | n.a. |
| T 7  | 3 54 8  | 29°50'47  | 22°59  | 10°12  | 26°39  | 6°22   | 17°38  | 20°21  | 12°33  | 20°21  | 29°39  | 10°23  | 11°44  | 2°37  | n.a. |
| F 8  | 3 58 5  | 0♁ 51'54  | 7♀ 11  | 11°37  | 27°53  | 6°51   | 17°30  | 20°27  | 12°34  | 20°20  | 29°37  | 10°19  | 11°41  | 2°44  | n.a. |
| S 9  | 4 2 1   | 1°52'59   | 21°20  | 13° 3  | 29° 7  | 7°19   | 17°22  | 20°33  | 12°36  | 20°19  | 29°36  | 10°14  | 11°38  | 2°50  | n.a. |
| S 10 | 4 5 58  | 2°54'03   | 5♁ 22  | 14°30  | 0♁ 21  | 7°48   | 17°15  | 20°39  | 12°37  | 20°18  | 29°35  | 10° 7  | 11°35  | 2°57  | n.a. |
| M11  | 4 9 54  | 3°55'06   | 19°14  | 15°57  | 1°35   | 8°17   | 17° 7  | 20°45  | 12°39  | 20°17  | 29°33  | 10° 1  | 11°32  | 3° 4  | n.a. |
| T 12 | 4 13 51 | 4°56'08   | 2♁ 51  | 17°26  | 2°49   | 8°46   | 17° 0  | 20°50  | 12°41  | 20°16  | 29°32  | 9°56   | 11°28  | 3°10  | n.a. |
| W13  | 4 17 47 | 5°57'08   | 16°10  | 18°55  | 4° 3   | 9°15   | 16°53  | 20°56  | 12°43  | 20°15  | 29°31  | 9°52   | 11°25  | 3°17  | n.a. |
| T 14 | 4 21 44 | 6°58'07   | 29°11  | 20°25  | 5°17   | 9°45   | 16°46  | 21° 2  | 12°44  | 20°14  | 29°29  | 9°50   | 11°22  | 3°24  | n.a. |
| F 15 | 4 25 40 | 7°59'06   | 11♁ 52 | 21°55  | 6°31   | 10°15  | 16°38  | 21° 7  | 12°46  | 20°12  | 29°28  | 9°D49  | 11°19  | 3°31  | n.a. |
| S 16 | 4 29 37 | 9° 0'03   | 24°17  | 23°27  | 7°45   | 10°45  | 16°31  | 21°12  | 12°48  | 20°11  | 29°27  | 9°50   | 11°16  | 3°37  | n.a. |
| S 17 | 4 33 34 | 10° 0'59  | 6♁ 26  | 24°59  | 8°59   | 11°15  | 16°25  | 21°18  | 12°50  | 20°10  | 29°25  | 9°52   | 11°13  | 3°44  | n.a. |
| M18  | 4 37 30 | 11° 1'53  | 18°25  | 26°31  | 10°13  | 11°45  | 16°18  | 21°23  | 12°52  | 20° 9  | 29°24  | 9°54   | 11° 9  | 3°51  | n.a. |
| T 19 | 4 41 27 | 12° 2'47  | 0♁ 18  | 28° 5  | 11°27  | 12°15  | 16°11  | 21°28  | 12°54  | 20° 8  | 29°23  | 9°55   | 11° 6  | 3°57  | n.a. |
| W20  | 4 45 23 | 13° 3'39  | 12° 8  | 29°39  | 12°41  | 12°46  | 16° 5  | 21°34  | 12°56  | 20° 6  | 29°22  | 9°R56  | 11° 3  | 4° 4  | n.a. |
| T 21 | 4 49 20 | 14° 4'31  | 24° 3  | 1♁ 14  | 13°55  | 13°16  | 15°58  | 21°39  | 12°58  | 20° 5  | 29°20  | 9°55   | 11° 0  | 4°11  | n.a. |
| F 22 | 4 53 16 | 15° 5'21  | 6♁ 5   | 2°49   | 15° 9  | 13°47  | 15°52  | 21°44  | 13° 0  | 20° 4  | 29°19  | 9°54   | 10°57  | 4°17  | n.a. |
| S 23 | 4 57 13 | 16° 6'09  | 18°21  | 4°26   | 16°23  | 14°18  | 15°46  | 21°49  | 13° 2  | 20° 3  | 29°18  | 9°51   | 10°53  | 4°24  | n.a. |
| S 24 | 5 1 9   | 17° 6'57  | 0♁ 52  | 6° 3   | 17°37  | 14°49  | 15°40  | 21°54  | 13° 5  | 20° 1  | 29°17  | 9°48   | 10°50  | 4°31  | n.a. |
| M25  | 5 5 6   | 18° 7'43  | 13°43  | 7°41   | 18°51  | 15°20  | 15°34  | 21°59  | 13° 7  | 20° 0  | 29°15  | 9°44   | 10°47  | 4°38  | n.a. |
| T 26 | 5 9 3   | 19° 8'28  | 26°54  | 9°20   | 20° 5  | 15°51  | 15°28  | 22° 4  | 13° 9  | 19°59  | 29°14  | 9°41   | 10°44  | 4°44  | n.a. |
| W27  | 5 12 59 | 20° 9'11  | 10♁ 24 | 10°59  | 21°20  | 16°23  | 15°23  | 22° 8  | 13°11  | 19°57  | 29°13  | 9°38   | 10°41  | 4°51  | n.a. |
| T 28 | 5 16 56 | 21° 9'53  | 24°13  | 12°40  | 22°34  | 16°55  | 15°17  | 22°13  | 13°14  | 19°56  | 29°12  | 9°36   | 10°38  | 4°58  | n.a. |
| F 29 | 5 20 52 | 22°10'33  | 8♁ 17  | 14°21  | 23°48  | 17°26  | 15°12  | 22°18  | 13°16  | 19°54  | 29°10  | 9°D36  | 10°34  | 5° 4  | n.a. |
| S 30 | 5 24 49 | 23°11'11  | 22°31  | 16° 3  | 25° 2  | 17°58  | 15° 7  | 22°22  | 13°19  | 19°53  | 29° 9  | 9°36   | 10°31  | 5°11  | n.a. |
| S 31 | 5 28 45 | 24♁ 11'47 | 6♁ 51  | 17♁ 46 | 26♁ 16 | 18♁ 30 | 15♁ 2  | 22♁ 27 | 13♁ 21 | 19♁ 52 | 29♁ 8  | 9♁ 37  | 10♁ 28 | 5♁ 18 | n.a. |

Delta T = 13h35m27s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [6.2.2007]