

SWISS EPHEMERIS for the year 1241 BCE

JANUARY 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♂     | ♃     | ♄     | ♅     | ♆     | ♇      | ♁      | ♂      | ♁    | ♃     | ♄    |
|------|---------|----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|------|-------|------|
| M 1  | 5 52 57 | 29♂51'40 | 15♃37 | 3°R22  | 12♁30 | 5°R55 | 22♁59 | 29♃50 | 0°R53 | 18°R51 | 22°R51 | 1♃ 9   | 2♃28 | 28♃18 | n.a. |
| T 2  | 5 56 54 | 0♁52'25  | 29°42 | 2♁14   | 13°45 | 5♁31  | 23°13 | 29°52 | 0♁51  | 18°V51 | 22♁50  | 1°R10  | 2°25 | 28°25 | n.a. |
| W 3  | 6 0 50  | 1°53'07  | 13♃49 | 1° 4   | 15° 0 | 5° 8  | 23°27 | 29°54 | 0°49  | 18°51  | 22°49  | 1° 9   | 2°22 | 28°31 | n.a. |
| T 4  | 6 4 47  | 2°53'48  | 27°55 | 29♂53  | 16°15 | 4°44  | 23°41 | 29°57 | 0°46  | 18°50  | 22°48  | 1° 7   | 2°18 | 28°38 | n.a. |
| F 5  | 6 8 43  | 3°54'27  | 11♁58 | 28°44  | 17°30 | 4°20  | 23°55 | 29°59 | 0°44  | 18°50  | 22°47  | 1° 1   | 2°15 | 28°45 | n.a. |
| S 6  | 6 12 40 | 4°55'04  | 25°57 | 27°38  | 18°45 | 3°56  | 24° 9 | 0°V 2 | 0°42  | 18°50  | 22°46  | 0°54   | 2°12 | 28°51 | n.a. |
| S 7  | 6 16 36 | 5°55'39  | 9♁48  | 26°36  | 20° 0 | 3°32  | 24°23 | 0° 5  | 0°40  | 18°50  | 22°45  | 0°45   | 2° 9 | 28°58 | n.a. |
| M 8  | 6 20 33 | 6°56'12  | 23°28 | 25°41  | 21°14 | 3° 8  | 24°37 | 0° 8  | 0°38  | 18°50  | 22°44  | 0°35   | 2° 6 | 29° 5 | n.a. |
| T 9  | 6 24 29 | 7°56'44  | 6♁53  | 24°51  | 22°29 | 2°45  | 24°51 | 0°11  | 0°36  | 18°50  | 22°43  | 0°26   | 2° 2 | 29°11 | n.a. |
| W10  | 6 28 26 | 8°57'14  | 20° 1 | 24°10  | 23°44 | 2°21  | 25° 5 | 0°14  | 0°35  | 18°D50 | 22°42  | 0°18   | 1°59 | 29°18 | n.a. |
| T 11 | 6 32 23 | 9°57'42  | 2♁50  | 23°35  | 24°59 | 1°58  | 25°19 | 0°17  | 0°33  | 18°50  | 22°41  | 0°13   | 1°56 | 29°25 | n.a. |
| F 12 | 6 36 19 | 10°58'08 | 15°22 | 23° 8  | 26°13 | 1°35  | 25°33 | 0°20  | 0°31  | 18°50  | 22°40  | 0° 9   | 1°53 | 29°31 | n.a. |
| S 13 | 6 40 16 | 11°58'33 | 27°38 | 22°49  | 27°28 | 1°12  | 25°48 | 0°24  | 0°29  | 18°50  | 22°39  | 0°D 8  | 1°50 | 29°38 | n.a. |
| S 14 | 6 44 12 | 12°58'56 | 9♃41  | 22°38  | 28°43 | 0°49  | 26° 2 | 0°27  | 0°27  | 18°50  | 22°38  | 0° 8   | 1°47 | 29°45 | n.a. |
| M15  | 6 48 9  | 13°59'17 | 21°34 | 22°D33 | 29°57 | 0°27  | 26°16 | 0°31  | 0°26  | 18°50  | 22°36  | 0°10   | 1°43 | 29°51 | n.a. |
| T 16 | 6 52 5  | 14°59'37 | 3♁23  | 22°35  | 1♁12  | 0° 5  | 26°30 | 0°35  | 0°24  | 18°50  | 22°35  | 0°11   | 1°40 | 29°58 | n.a. |
| W17  | 6 56 2  | 15°59'55 | 15°13 | 22°44  | 2°26  | 29♁44 | 26°45 | 0°38  | 0°22  | 18°50  | 22°34  | 0°R12  | 1°37 | 0♁ 5  | n.a. |
| T 18 | 6 59 58 | 17° 0'12 | 27° 9 | 22°59  | 3°41  | 29°23 | 26°59 | 0°42  | 0°21  | 18°51  | 22°33  | 0°11   | 1°34 | 0°11  | n.a. |
| F 19 | 7 3 55  | 18° 0'27 | 9♁17  | 23°20  | 4°55  | 29° 3 | 27°13 | 0°46  | 0°19  | 18°51  | 22°31  | 0° 9   | 1°31 | 0°18  | n.a. |
| S 20 | 7 7 52  | 19° 0'40 | 21°39 | 23°45  | 6°10  | 28°43 | 27°28 | 0°50  | 0°18  | 18°51  | 22°30  | 0° 4   | 1°28 | 0°25  | n.a. |
| S 21 | 7 11 48 | 20° 0'51 | 4♂21  | 24°16  | 7°24  | 28°24 | 27°42 | 0°54  | 0°16  | 18°52  | 22°29  | 29♁59  | 1°24 | 0°31  | n.a. |
| M22  | 7 15 45 | 21° 1'01 | 17°25 | 24°52  | 8°39  | 28° 5 | 27°56 | 0°59  | 0°15  | 18°52  | 22°27  | 29°52  | 1°21 | 0°38  | n.a. |
| T 23 | 7 19 41 | 22° 1'09 | 0♁50  | 25°31  | 9°53  | 27°47 | 28°11 | 1° 3  | 0°14  | 18°52  | 22°26  | 29°46  | 1°18 | 0°45  | n.a. |
| W24  | 7 23 38 | 23° 1'15 | 14°36 | 26°15  | 11° 8 | 27°30 | 28°25 | 1° 8  | 0°12  | 18°53  | 22°25  | 29°40  | 1°15 | 0°51  | n.a. |
| T 25 | 7 27 34 | 24° 1'19 | 28°40 | 27° 2  | 12°22 | 27°13 | 28°40 | 1°12  | 0°11  | 18°53  | 22°23  | 29°35  | 1°12 | 0°58  | n.a. |
| F 26 | 7 31 31 | 25° 1'21 | 12♁57 | 27°53  | 13°36 | 26°57 | 28°54 | 1°17  | 0°10  | 18°54  | 22°22  | 29°32  | 1° 8 | 1° 5  | n.a. |
| S 27 | 7 35 28 | 26° 1'21 | 27°22 | 28°47  | 14°51 | 26°42 | 29° 8 | 1°21  | 0° 9  | 18°54  | 22°21  | 29°D31 | 1° 5 | 1°11  | n.a. |
| S 28 | 7 39 24 | 27° 1'18 | 11♁50 | 29°43  | 16° 5 | 26°28 | 29°23 | 1°26  | 0° 8  | 18°55  | 22°19  | 29°31  | 1° 2 | 1°18  | n.a. |
| M29  | 7 43 21 | 28° 1'13 | 26°15 | 0♁43   | 17°19 | 26°14 | 29°37 | 1°31  | 0° 7  | 18°56  | 22°18  | 29°33  | 0°59 | 1°25  | n.a. |
| T 30 | 7 47 17 | 29° 1'06 | 10♃35 | 1°45   | 18°33 | 26° 1 | 29°52 | 1°36  | 0° 6  | 18°56  | 22°16  | 29°34  | 0°56 | 1°31  | n.a. |
| W31  | 7 51 14 | 0♁ 0'56  | 24♃46 | 2♁50   | 19♁48 | 25♁49 | 0♁ 6  | 1°V41 | 0♁ 5  | 18°V57 | 22♁15  | 29°R35 | 0♁53 | 1♁38  | n.a. |

Delta T = 08h31m52s Julian Calendar 1 Jan. 1241 BCE == Greg. Calendar 21 Dec. 1242 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

FEBRUARY 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♂     | ♃      | ♄    | ♅     | ♆      | ♇      | ♁      | ♂      | ♁     | ♃    | ♄    |
|------|---------|----------|-------|-------|-------|--------|------|-------|--------|--------|--------|--------|-------|------|------|
| T 1  | 7 55 10 | 1♁ 0'44  | 8♁48  | 3♁57  | 21♁ 2 | 25°R37 | 0♁21 | 1°V46 | 0°R 4  | 18°V58 | 22°R13 | 29°R35 | 0♁49  | 1♁45 | n.a. |
| F 2  | 7 59 7  | 2° 0'30  | 22°38 | 5° 6  | 22°16 | 25♁27  | 0°35 | 1°51  | 0♁ 3   | 18°59  | 22♁12  | 29♁34  | 0°46  | 1°51 | n.a. |
| S 3  | 8 3 3   | 3° 0'13  | 6♁17  | 6°17  | 23°30 | 25°17  | 0°49 | 1°57  | 0° 2   | 18°59  | 22°10  | 29°31  | 0°43  | 1°58 | n.a. |
| S 4  | 8 7 0   | 3°59'54  | 19°43 | 7°30  | 24°44 | 25° 8  | 1° 4 | 2° 2  | 0° 1   | 19° 0  | 22° 9  | 29°27  | 0°40  | 2° 5 | n.a. |
| M 5  | 8 10 57 | 4°59'32  | 2♁56  | 8°45  | 25°58 | 25° 0  | 1°18 | 2° 7  | 0° 1   | 19° 1  | 22° 7  | 29°24  | 0°37  | 2°11 | n.a. |
| T 6  | 8 14 53 | 5°59'08  | 15°55 | 10° 2 | 27°12 | 24°52  | 1°33 | 2°13  | 0° 0   | 19° 2  | 22° 5  | 29°20  | 0°34  | 2°18 | n.a. |
| W 7  | 8 18 50 | 6°58'42  | 28°41 | 11°21 | 28°26 | 24°46  | 1°47 | 2°19  | 29♁59  | 19° 3  | 22° 4  | 29°17  | 0°30  | 2°25 | n.a. |
| T 8  | 8 22 46 | 7°58'14  | 11♁14 | 12°41 | 29°40 | 24°40  | 2° 1 | 2°24  | 29°59  | 19° 4  | 22° 2  | 29°15  | 0°27  | 2°31 | n.a. |
| F 9  | 8 26 43 | 8°57'43  | 23°33 | 14° 3 | 0♁54  | 24°35  | 2°16 | 2°30  | 29°58  | 19° 5  | 22° 1  | 29°D14 | 0°24  | 2°38 | n.a. |
| S 10 | 8 30 39 | 9°57'10  | 5♁42  | 15°26 | 2° 8  | 24°30  | 2°30 | 2°36  | 29°58  | 19° 6  | 21°59  | 29°14  | 0°21  | 2°45 | n.a. |
| S 11 | 8 34 36 | 10°56'35 | 17°41 | 16°51 | 3°21  | 24°27  | 2°45 | 2°42  | 29°58  | 19° 7  | 21°57  | 29°14  | 0°18  | 2°51 | n.a. |
| M12  | 8 38 32 | 11°55'58 | 29°33 | 18°18 | 4°35  | 24°24  | 2°59 | 2°47  | 29°57  | 19° 8  | 21°56  | 29°16  | 0°14  | 2°58 | n.a. |
| T 13 | 8 42 29 | 12°55'19 | 11♁23 | 19°46 | 5°49  | 24°22  | 3°13 | 2°53  | 29°57  | 19° 9  | 21°54  | 29°17  | 0°11  | 3° 5 | n.a. |
| W14  | 8 46 25 | 13°54'39 | 23°13 | 21°15 | 7° 2  | 24°21  | 3°28 | 3° 0  | 29°57  | 19°10  | 21°53  | 29°19  | 0° 8  | 3°11 | n.a. |
| T 15 | 8 50 22 | 14°53'56 | 5♁ 9  | 22°46 | 8°16  | 24°D20 | 3°42 | 3° 6  | 29°57  | 19°11  | 21°51  | 29°19  | 0° 5  | 3°18 | n.a. |
| F 16 | 8 54 19 | 15°53'11 | 17°15 | 24°18 | 9°30  | 24°20  | 3°56 | 3°12  | 29°56  | 19°12  | 21°49  | 29°R20 | 0° 2  | 3°25 | n.a. |
| S 17 | 8 58 15 | 16°52'25 | 29°36 | 25°52 | 10°43 | 24°21  | 4°10 | 3°18  | 29°56  | 19°14  | 21°48  | 29°19  | 29♁59 | 3°31 | n.a. |
| S 18 | 9 2 12  | 17°51'36 | 12♁16 | 27°27 | 11°57 | 24°23  | 4°25 | 3°24  | 29°D56 | 19°15  | 21°46  | 29°18  | 29°55 | 3°38 | n.a. |
| M19  | 9 6 8   | 18°50'46 | 25°19 | 29° 4 | 13°10 | 24°25  | 4°39 | 3°31  | 29°56  | 19°16  | 21°44  | 29°17  | 29°52 | 3°45 | n.a. |
| T 20 | 9 10 5  | 19°49'53 | 8♁46  | 0♁41  | 14°24 | 24°28  | 4°53 | 3°37  | 29°56  | 19°17  | 21°43  | 29°16  | 29°49 | 3°51 | n.a. |
| W21  | 9 14 1  | 20°48'59 | 22°39 | 2°21  | 15°37 | 24°32  | 5° 7 | 3°44  | 29°57  | 19°19  | 21°41  | 29°15  | 29°46 | 3°58 | n.a. |
| T 22 | 9 17 58 | 21°48'03 | 6♁55  | 4° 1  | 16°50 | 24°37  | 5°21 | 3°50  | 29°57  | 19°20  | 21°39  | 29°14  | 29°43 | 4° 5 | n.a. |
| F 23 | 9 21 54 | 22°47'04 | 21°30 | 5°43  | 18° 4 | 24°42  | 5°35 | 3°57  | 29°57  | 19°22  | 21°38  | 29°14  | 29°40 | 4°11 | n.a. |
| S 24 | 9 25 51 | 23°46'04 | 6♁18  | 7°27  | 19°17 | 24°48  | 5°49 | 4° 4  | 29°57  | 19°23  | 21°36  | 29°D14 | 29°36 | 4°18 | n.a. |
| S 25 | 9 29 48 | 24°45'01 | 21°11 | 9°12  | 20°30 | 24°54  | 6° 3 | 4°10  | 29°58  | 19°24  | 21°34  | 29°14  | 29°33 | 4°25 | n.a. |
| M26  | 9 33 44 | 25°43'55 | 6°V 2 | 10°58 | 21°43 | 25° 1  | 6°17 | 4°17  | 29°58  | 19°26  | 21°33  | 29°14  | 29°30 | 4°31 | n.a. |
| T 27 | 9 37 41 | 26°42'48 | 20°44 | 12°46 | 22°57 | 25° 9  | 6°31 | 4°24  | 29°59  | 19°27  | 21°31  | 29°15  | 29°27 | 4°38 | n.a. |
| W28  | 9 41 37 | 27°41'38 | 5♁12  | 14°35 | 24°10 | 25°17  | 6°45 | 4°31  | 29°59  | 19°29  | 21°29  | 29°15  | 29°24 | 4°45 | n.a. |
| T 29 | 9 45 34 | 28°40'25 | 19♁21 | 16♁26 | 25♁23 | 25♁26  | 6♁59 | 4°V38 | 0♁ 0   | 19°V30 | 21♁28  | 29♁15  | 29♁20 | 4♁51 | n.a. |

Delta T = 08h31m50s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [20.1.2005]

SWISS EPHEMERIS for the year 1241 BCE

MARCH 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉                      | ☽                  | ♀                   | ♂                   | ♃                   | ♄                  | ♅                  | ♆                  | ♇                   | ♁                    | ♂                    | ♆                   | ♁                  |      |
|------|----------|------------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|----------------------|----------------------|---------------------|--------------------|------|
| F 1  | 9 49 30  | 29 <sup>39</sup> 39'10 | 3 <sup>II</sup> 11 | 18 <sup>18</sup> 18 | 26 <sup>36</sup> 36 | 25 <sup>36</sup> 36 | 7 <sup>13</sup> 13 | 4 <sup>45</sup> 45 | 0 <sup>II</sup> 0  | 19 <sup>32</sup> 32 | 21 <sup>26</sup> R26 | 29 <sup>15</sup> 15  | 29 <sup>17</sup> 17 | 4 <sup>58</sup> 58 | n.a. |
| S 2  | 9 53 27  | 0 <sup>X</sup> 37'53   | 16 <sup>41</sup>   | 20 <sup>12</sup>    | 27 <sup>49</sup>    | 25 <sup>46</sup>    | 7 <sup>27</sup>    | 4 <sup>52</sup>    | 0 <sup>1</sup>     | 19 <sup>34</sup>    | 21 <sup>24</sup> Ω24 | 29 <sup>15</sup>     | 29 <sup>14</sup>    | 5 <sup>5</sup>     | n.a. |
| S 3  | 9 57 23  | 1 <sup>36</sup> 33     | 29 <sup>53</sup>   | 22 <sup>7</sup>     | 29 <sup>1</sup>     | 25 <sup>57</sup>    | 7 <sup>41</sup>    | 4 <sup>59</sup>    | 0 <sup>2</sup>     | 19 <sup>35</sup>    | 21 <sup>23</sup>     | 29 <sup>15</sup>     | 29 <sup>11</sup>    | 5 <sup>11</sup>    | n.a. |
| M 4  | 10 1 20  | 2 <sup>35</sup> 11     | 12 <sup>54</sup> 7 | 24 <sup>4</sup>     | 0 <sup>Y</sup> 14   | 26 <sup>8</sup>     | 7 <sup>55</sup>    | 5 <sup>6</sup>     | 0 <sup>3</sup>     | 19 <sup>37</sup>    | 21 <sup>21</sup>     | 29 <sup>15</sup>     | 29 <sup>8</sup>     | 5 <sup>18</sup>    | n.a. |
| T 5  | 10 5 17  | 3 <sup>33</sup> 47     | 25 <sup>26</sup>   | 26 <sup>2</sup>     | 1 <sup>27</sup>     | 26 <sup>20</sup>    | 8 <sup>8</sup>     | 5 <sup>13</sup>    | 0 <sup>3</sup>     | 19 <sup>38</sup>    | 21 <sup>20</sup>     | 29 <sup>16</sup>     | 29 <sup>5</sup>     | 5 <sup>25</sup>    | n.a. |
| W 6  | 10 9 13  | 4 <sup>32</sup> 21     | 7 <sup>53</sup> Ω  | 28 <sup>1</sup>     | 2 <sup>40</sup>     | 26 <sup>33</sup>    | 8 <sup>22</sup>    | 5 <sup>20</sup>    | 0 <sup>4</sup>     | 19 <sup>40</sup>    | 21 <sup>18</sup>     | 29 <sup>16</sup>     | 29 <sup>1</sup>     | 5 <sup>31</sup>    | n.a. |
| T 7  | 10 13 10 | 5 <sup>30</sup> 52     | 20 <sup>8</sup>    | 0 <sup>X</sup> 2    | 3 <sup>52</sup>     | 26 <sup>45</sup>    | 8 <sup>36</sup>    | 5 <sup>27</sup>    | 0 <sup>5</sup>     | 19 <sup>42</sup>    | 21 <sup>16</sup>     | 29 <sup>17</sup>     | 28 <sup>58</sup>    | 5 <sup>38</sup>    | n.a. |
| F 8  | 10 17 6  | 6 <sup>29</sup> 21     | 2 <sup>14</sup> ♁  | 2 <sup>4</sup>      | 5 <sup>5</sup>      | 26 <sup>59</sup>    | 8 <sup>49</sup>    | 5 <sup>34</sup>    | 0 <sup>6</sup>     | 19 <sup>44</sup>    | 21 <sup>15</sup>     | 29 <sup>17</sup> R17 | 28 <sup>55</sup>    | 5 <sup>45</sup>    | n.a. |
| S 9  | 10 21 3  | 7 <sup>27</sup> 48     | 14 <sup>13</sup>   | 4 <sup>8</sup>      | 6 <sup>18</sup>     | 27 <sup>13</sup>    | 9 <sup>3</sup>     | 5 <sup>42</sup>    | 0 <sup>7</sup>     | 19 <sup>45</sup>    | 21 <sup>13</sup>     | 29 <sup>16</sup>     | 28 <sup>52</sup>    | 5 <sup>51</sup>    | n.a. |
| S 10 | 10 24 59 | 8 <sup>26</sup> 13     | 26 <sup>7</sup>    | 6 <sup>12</sup>     | 7 <sup>30</sup>     | 27 <sup>27</sup>    | 9 <sup>16</sup>    | 5 <sup>49</sup>    | 0 <sup>8</sup>     | 19 <sup>47</sup>    | 21 <sup>12</sup>     | 29 <sup>16</sup>     | 28 <sup>49</sup>    | 5 <sup>58</sup>    | n.a. |
| M 11 | 10 28 56 | 9 <sup>24</sup> 36     | 7 <sup>58</sup> Ω  | 8 <sup>18</sup>     | 8 <sup>42</sup>     | 27 <sup>42</sup>    | 9 <sup>30</sup>    | 5 <sup>56</sup>    | 0 <sup>10</sup>    | 19 <sup>49</sup>    | 21 <sup>10</sup>     | 29 <sup>14</sup>     | 28 <sup>45</sup>    | 6 <sup>5</sup>     | n.a. |
| T 12 | 10 32 52 | 10 <sup>22</sup> 57    | 19 <sup>47</sup>   | 10 <sup>24</sup>    | 9 <sup>55</sup>     | 27 <sup>58</sup>    | 9 <sup>43</sup>    | 6 <sup>4</sup>     | 0 <sup>11</sup>    | 19 <sup>51</sup>    | 21 <sup>8</sup>      | 29 <sup>13</sup>     | 28 <sup>42</sup>    | 6 <sup>11</sup>    | n.a. |
| W 13 | 10 36 49 | 11 <sup>21</sup> 16    | 1 <sup>39</sup> ♁  | 12 <sup>31</sup>    | 11 <sup>7</sup>     | 28 <sup>13</sup>    | 9 <sup>56</sup>    | 6 <sup>11</sup>    | 0 <sup>12</sup>    | 19 <sup>53</sup>    | 21 <sup>7</sup>      | 29 <sup>11</sup>     | 28 <sup>39</sup>    | 6 <sup>18</sup>    | n.a. |
| T 14 | 10 40 46 | 12 <sup>19</sup> 34    | 13 <sup>36</sup>   | 14 <sup>39</sup>    | 12 <sup>19</sup>    | 28 <sup>30</sup>    | 10 <sup>10</sup>   | 6 <sup>19</sup>    | 0 <sup>13</sup>    | 19 <sup>54</sup>    | 21 <sup>5</sup>      | 29 <sup>10</sup>     | 28 <sup>36</sup>    | 6 <sup>25</sup>    | n.a. |
| F 15 | 10 44 42 | 13 <sup>17</sup> 50    | 25 <sup>42</sup>   | 16 <sup>46</sup>    | 13 <sup>32</sup>    | 28 <sup>46</sup>    | 10 <sup>23</sup>   | 6 <sup>26</sup>    | 0 <sup>15</sup>    | 19 <sup>56</sup>    | 21 <sup>4</sup>      | 29 <sup>8</sup>      | 28 <sup>33</sup>    | 6 <sup>31</sup>    | n.a. |
| S 16 | 10 48 39 | 14 <sup>16</sup> 04    | 8 <sup>2</sup> ♁   | 18 <sup>54</sup>    | 14 <sup>44</sup>    | 29 <sup>4</sup>     | 10 <sup>36</sup>   | 6 <sup>34</sup>    | 0 <sup>16</sup>    | 19 <sup>58</sup>    | 21 <sup>2</sup>      | 29 <sup>7</sup>      | 28 <sup>30</sup>    | 6 <sup>38</sup>    | n.a. |
| S 17 | 10 52 35 | 15 <sup>14</sup> 17    | 20 <sup>38</sup>   | 21 <sup>2</sup>     | 15 <sup>56</sup>    | 29 <sup>21</sup>    | 10 <sup>49</sup>   | 6 <sup>41</sup>    | 0 <sup>18</sup>    | 20 <sup>0</sup>     | 21 <sup>1</sup>      | 29 <sup>D</sup> 7    | 28 <sup>26</sup>    | 6 <sup>45</sup>    | n.a. |
| M 18 | 10 56 32 | 16 <sup>12</sup> 28    | 3 <sup>35</sup> ♁  | 23 <sup>9</sup>     | 17 <sup>8</sup>     | 29 <sup>39</sup>    | 11 <sup>2</sup>    | 6 <sup>49</sup>    | 0 <sup>19</sup>    | 20 <sup>2</sup>     | 20 <sup>59</sup>     | 29 <sup>8</sup>      | 28 <sup>23</sup>    | 6 <sup>51</sup>    | n.a. |
| T 19 | 11 0 28  | 17 <sup>10</sup> 37    | 16 <sup>57</sup>   | 25 <sup>16</sup>    | 18 <sup>20</sup>    | 29 <sup>58</sup>    | 11 <sup>15</sup>   | 6 <sup>56</sup>    | 0 <sup>21</sup>    | 20 <sup>4</sup>     | 20 <sup>58</sup>     | 29 <sup>9</sup>      | 28 <sup>20</sup>    | 6 <sup>58</sup>    | n.a. |
| W 20 | 11 4 25  | 18 <sup>8</sup> 45     | 0 <sup>45</sup> ♁  | 27 <sup>21</sup>    | 19 <sup>32</sup>    | 0 <sup>17</sup> ♁   | 11 <sup>28</sup>   | 7 <sup>4</sup>     | 0 <sup>22</sup>    | 20 <sup>6</sup>     | 20 <sup>57</sup>     | 29 <sup>11</sup>     | 28 <sup>17</sup>    | 7 <sup>5</sup>     | n.a. |
| T 21 | 11 8 21  | 19 <sup>6</sup> 52     | 15 <sup>0</sup>    | 29 <sup>25</sup>    | 20 <sup>44</sup>    | 0 <sup>36</sup>     | 11 <sup>41</sup>   | 7 <sup>12</sup>    | 0 <sup>24</sup>    | 20 <sup>8</sup>     | 20 <sup>55</sup>     | 29 <sup>12</sup>     | 28 <sup>14</sup>    | 7 <sup>12</sup>    | n.a. |
| F 22 | 11 12 18 | 20 <sup>4</sup> 56     | 29 <sup>39</sup>   | 1 <sup>Y</sup> 27   | 21 <sup>55</sup>    | 0 <sup>55</sup>     | 11 <sup>54</sup>   | 7 <sup>19</sup>    | 0 <sup>25</sup>    | 20 <sup>10</sup>    | 20 <sup>54</sup>     | 29 <sup>R</sup> 12   | 28 <sup>11</sup>    | 7 <sup>18</sup>    | n.a. |
| S 23 | 11 16 15 | 21 <sup>2</sup> 59     | 14 <sup>X</sup> 36 | 3 <sup>27</sup>     | 23 <sup>7</sup>     | 1 <sup>15</sup>     | 12 <sup>7</sup>    | 7 <sup>27</sup>    | 0 <sup>27</sup>    | 20 <sup>12</sup>    | 20 <sup>52</sup>     | 29 <sup>12</sup>     | 28 <sup>7</sup>     | 7 <sup>25</sup>    | n.a. |
| S 24 | 11 20 11 | 22 <sup>1</sup> 00     | 29 <sup>45</sup>   | 5 <sup>25</sup>     | 24 <sup>19</sup>    | 1 <sup>36</sup>     | 12 <sup>19</sup>   | 7 <sup>35</sup>    | 0 <sup>29</sup>    | 20 <sup>14</sup>    | 20 <sup>51</sup>     | 29 <sup>10</sup>     | 28 <sup>4</sup>     | 7 <sup>32</sup>    | n.a. |
| M 25 | 11 24 8  | 22 <sup>58</sup> 59    | 14 <sup>Y</sup> 56 | 7 <sup>20</sup>     | 25 <sup>31</sup>    | 1 <sup>57</sup>     | 12 <sup>32</sup>   | 7 <sup>43</sup>    | 0 <sup>31</sup>    | 20 <sup>16</sup>    | 20 <sup>50</sup>     | 29 <sup>7</sup>      | 28 <sup>1</sup>     | 7 <sup>38</sup>    | n.a. |
| T 26 | 11 28 4  | 23 <sup>56</sup> 57    | 29 <sup>58</sup>   | 9 <sup>13</sup>     | 26 <sup>42</sup>    | 2 <sup>18</sup>     | 12 <sup>44</sup>   | 7 <sup>50</sup>    | 0 <sup>33</sup>    | 20 <sup>18</sup>    | 20 <sup>48</sup>     | 29 <sup>4</sup>      | 27 <sup>58</sup>    | 7 <sup>45</sup>    | n.a. |
| W 27 | 11 32 1  | 24 <sup>54</sup> 52    | 14 <sup>8</sup> ♁  | 11 <sup>2</sup>     | 27 <sup>54</sup>    | 2 <sup>39</sup>     | 12 <sup>57</sup>   | 7 <sup>58</sup>    | 0 <sup>35</sup>    | 20 <sup>20</sup>    | 20 <sup>47</sup>     | 29 <sup>1</sup>      | 27 <sup>55</sup>    | 7 <sup>52</sup>    | n.a. |
| T 28 | 11 35 57 | 25 <sup>52</sup> 46    | 29 <sup>8</sup>    | 12 <sup>49</sup>    | 29 <sup>5</sup>     | 3 <sup>1</sup>      | 13 <sup>9</sup>    | 8 <sup>6</sup>     | 0 <sup>37</sup>    | 20 <sup>22</sup>    | 20 <sup>46</sup>     | 28 <sup>58</sup>     | 27 <sup>51</sup>    | 7 <sup>58</sup>    | n.a. |
| F 29 | 11 39 54 | 26 <sup>50</sup> 38    | 13 <sup>II</sup> 6 | 14 <sup>32</sup>    | 0 <sup>16</sup> ♁   | 3 <sup>23</sup>     | 13 <sup>22</sup>   | 8 <sup>14</sup>    | 0 <sup>39</sup>    | 20 <sup>24</sup>    | 20 <sup>44</sup>     | 28 <sup>56</sup>     | 27 <sup>48</sup>    | 8 <sup>5</sup>     | n.a. |
| S 30 | 11 43 50 | 27 <sup>48</sup> 27    | 26 <sup>38</sup>   | 16 <sup>12</sup>    | 1 <sup>28</sup>     | 3 <sup>46</sup>     | 13 <sup>34</sup>   | 8 <sup>22</sup>    | 0 <sup>41</sup>    | 20 <sup>26</sup>    | 20 <sup>43</sup>     | 28 <sup>D</sup> 55   | 27 <sup>45</sup>    | 8 <sup>12</sup>    | n.a. |
| S 31 | 11 47 47 | 28 <sup>X</sup> 46'15  | 9 <sup>54</sup> ♁  | 17 <sup>Y</sup> 48  | 2 <sup>39</sup> ♁   | 4 <sup>8</sup> ♁    | 13 <sup>46</sup> ♁ | 8 <sup>Y</sup> 29  | 0 <sup>II</sup> 43 | 20 <sup>Y</sup> 28  | 20 <sup>42</sup> ♁   | 28 <sup>56</sup> ♁   | 27 <sup>42</sup> ♁  | 8 <sup>18</sup> ♁  | n.a. |

Delta T = 08h31m49s Julian Calendar 1 March 1241 BCE == Greg. Calendar 19 Feb. 1241 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

APRIL 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉                     | ☽                  | ♀                  | ♂                  | ♃                | ♄                  | ♅                 | ♆                  | ♇                  | ♁                  | ♂                  | ♆                   | ♁                 |      |
|------|----------|-----------------------|--------------------|--------------------|--------------------|------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------------------|------|
| M 1  | 11 51 43 | 29 <sup>X</sup> 44'01 | 22 <sup>30</sup> ♁ | 19 <sup>Y</sup> 20 | 3 <sup>8</sup> 50  | 4 <sup>32</sup>  | 13 <sup>58</sup> ♁ | 8 <sup>Y</sup> 37 | 0 <sup>II</sup> 45 | 20 <sup>Y</sup> 30 | 20 <sup>R</sup> 41 | 28 <sup>57</sup> ♁ | 27 <sup>139</sup> ♁ | 8 <sup>25</sup> ♁ | n.a. |
| T 2  | 11 55 40 | 0 <sup>Y</sup> 41'45  | 4 <sup>58</sup> ♁  | 20 <sup>49</sup>   | 5 <sup>1</sup>     | 4 <sup>55</sup>  | 14 <sup>10</sup>   | 8 <sup>45</sup>   | 0 <sup>47</sup>    | 20 <sup>33</sup>   | 20 <sup>39</sup> ♁ | 28 <sup>59</sup>   | 27 <sup>36</sup>    | 8 <sup>32</sup>   | n.a. |
| W 3  | 11 59 37 | 1 <sup>39</sup> 28    | 17 <sup>12</sup>   | 22 <sup>15</sup>   | 6 <sup>12</sup>    | 5 <sup>19</sup>  | 14 <sup>22</sup>   | 8 <sup>53</sup>   | 0 <sup>49</sup>    | 20 <sup>35</sup>   | 20 <sup>38</sup>   | 29 <sup>0</sup>    | 27 <sup>32</sup>    | 8 <sup>38</sup>   | n.a. |
| T 4  | 12 3 33  | 2 <sup>37</sup> 08    | 29 <sup>15</sup>   | 23 <sup>36</sup>   | 7 <sup>23</sup>    | 5 <sup>43</sup>  | 14 <sup>34</sup>   | 9 <sup>1</sup>    | 0 <sup>52</sup>    | 20 <sup>37</sup>   | 20 <sup>37</sup>   | 29 <sup>R</sup> 1  | 27 <sup>29</sup>    | 8 <sup>45</sup>   | n.a. |
| F 5  | 12 7 30  | 3 <sup>34</sup> 47    | 11 <sup>14</sup> ♁ | 24 <sup>53</sup>   | 8 <sup>34</sup>    | 6 <sup>7</sup>   | 14 <sup>46</sup>   | 9 <sup>9</sup>    | 0 <sup>54</sup>    | 20 <sup>39</sup>   | 20 <sup>36</sup>   | 29 <sup>0</sup>    | 27 <sup>26</sup>    | 8 <sup>52</sup>   | n.a. |
| S 6  | 12 11 26 | 4 <sup>32</sup> 25    | 23 <sup>4</sup>    | 26 <sup>7</sup>    | 9 <sup>44</sup>    | 6 <sup>32</sup>  | 14 <sup>58</sup>   | 9 <sup>17</sup>   | 0 <sup>56</sup>    | 20 <sup>41</sup>   | 20 <sup>35</sup>   | 28 <sup>57</sup>   | 27 <sup>23</sup>    | 8 <sup>58</sup>   | n.a. |
| S 7  | 12 15 23 | 5 <sup>30</sup> 01    | 4 <sup>54</sup> ♁  | 27 <sup>16</sup>   | 10 <sup>55</sup>   | 6 <sup>56</sup>  | 15 <sup>9</sup>    | 9 <sup>25</sup>   | 0 <sup>59</sup>    | 20 <sup>43</sup>   | 20 <sup>34</sup>   | 28 <sup>53</sup>   | 27 <sup>20</sup>    | 9 <sup>5</sup>    | n.a. |
| M 8  | 12 19 19 | 6 <sup>27</sup> 35    | 16 <sup>44</sup>   | 28 <sup>22</sup>   | 12 <sup>5</sup>    | 7 <sup>21</sup>  | 15 <sup>21</sup>   | 9 <sup>33</sup>   | 1 <sup>1</sup>     | 20 <sup>45</sup>   | 20 <sup>33</sup>   | 28 <sup>48</sup>   | 27 <sup>16</sup>    | 9 <sup>12</sup>   | n.a. |
| T 9  | 12 23 16 | 7 <sup>25</sup> 08    | 28 <sup>36</sup>   | 29 <sup>23</sup>   | 13 <sup>16</sup>   | 7 <sup>47</sup>  | 15 <sup>32</sup>   | 9 <sup>40</sup>   | 1 <sup>3</sup>     | 20 <sup>48</sup>   | 20 <sup>32</sup>   | 28 <sup>41</sup>   | 27 <sup>13</sup>    | 9 <sup>18</sup>   | n.a. |
| W 10 | 12 27 12 | 8 <sup>22</sup> 40    | 10 <sup>32</sup> ♁ | 0 <sup>20</sup> ♁  | 14 <sup>26</sup>   | 8 <sup>12</sup>  | 15 <sup>44</sup>   | 9 <sup>48</sup>   | 1 <sup>6</sup>     | 20 <sup>50</sup>   | 20 <sup>31</sup>   | 28 <sup>34</sup>   | 27 <sup>10</sup>    | 9 <sup>25</sup>   | n.a. |
| T 11 | 12 31 9  | 9 <sup>20</sup> 11    | 22 <sup>33</sup>   | 1 <sup>13</sup>    | 15 <sup>37</sup>   | 8 <sup>38</sup>  | 15 <sup>55</sup>   | 9 <sup>56</sup>   | 1 <sup>8</sup>     | 20 <sup>52</sup>   | 20 <sup>30</sup>   | 28 <sup>27</sup>   | 27 <sup>7</sup>     | 9 <sup>32</sup>   | n.a. |
| F 12 | 12 35 6  | 10 <sup>17</sup> 40   | 4 <sup>44</sup> ♁  | 2 <sup>2</sup>     | 16 <sup>47</sup>   | 9 <sup>5</sup>   | 16 <sup>6</sup>    | 10 <sup>4</sup>   | 1 <sup>11</sup>    | 20 <sup>54</sup>   | 20 <sup>29</sup>   | 28 <sup>21</sup>   | 27 <sup>4</sup>     | 9 <sup>38</sup>   | n.a. |
| S 13 | 12 39 2  | 11 <sup>15</sup> 09   | 17 <sup>5</sup>    | 2 <sup>46</sup>    | 17 <sup>57</sup>   | 9 <sup>31</sup>  | 16 <sup>17</sup>   | 10 <sup>12</sup>  | 1 <sup>14</sup>    | 20 <sup>56</sup>   | 20 <sup>28</sup>   | 28 <sup>16</sup>   | 27 <sup>1</sup>     | 9 <sup>45</sup>   | n.a. |
| S 14 | 12 42 59 | 12 <sup>12</sup> 36   | 29 <sup>41</sup>   | 3 <sup>26</sup>    | 19 <sup>7</sup>    | 9 <sup>58</sup>  | 16 <sup>28</sup>   | 10 <sup>20</sup>  | 1 <sup>16</sup>    | 20 <sup>59</sup>   | 20 <sup>27</sup>   | 28 <sup>14</sup>   | 26 <sup>57</sup>    | 9 <sup>52</sup>   | n.a. |
| M 15 | 12 46 55 | 13 <sup>10</sup> 03   | 12 <sup>35</sup> ♁ | 4 <sup>1</sup>     | 20 <sup>17</sup>   | 10 <sup>24</sup> | 16 <sup>39</sup>   | 10 <sup>28</sup>  | 1 <sup>19</sup>    | 21 <sup>1</sup>    | 20 <sup>26</sup>   | 28 <sup>D</sup> 13 | 26 <sup>54</sup>    | 9 <sup>58</sup>   | n.a. |
| T 16 | 12 50 52 | 14 <sup>7</sup> 29    | 25 <sup>50</sup>   | 4 <sup>32</sup>    | 21 <sup>27</sup>   | 10 <sup>52</sup> | 16 <sup>50</sup>   | 10 <sup>36</sup>  | 1 <sup>22</sup>    | 21 <sup>3</sup>    | 20 <sup>25</sup>   | 28 <sup>13</sup>   | 26 <sup>51</sup>    | 10 <sup>5</sup>   | n.a. |
| W 17 | 12 54 48 | 15 <sup>4</sup> 54    | 9 <sup>29</sup> ♁  | 4 <sup>58</sup>    | 22 <sup>37</sup>   | 11 <sup>19</sup> | 17 <sup>0</sup>    | 10 <sup>44</sup>  | 1 <sup>24</sup>    | 21 <sup>5</sup>    | 20 <sup>25</sup>   | 28 <sup>15</sup>   | 26 <sup>48</sup>    | 10 <sup>12</sup>  | n.a. |
| T 18 | 12 58 45 | 16 <sup>2</sup> 18    | 23 <sup>34</sup>   | 5 <sup>20</sup>    | 23 <sup>46</sup>   | 11 <sup>46</sup> | 17 <sup>11</sup>   | 10 <sup>52</sup>  | 1 <sup>27</sup>    | 21 <sup>8</sup>    | 20 <sup>24</sup>   | 28 <sup>R</sup> 15 | 26 <sup>45</sup>    | 10 <sup>19</sup>  | n.a. |
| F 19 | 13 2 41  | 16 <sup>59</sup> 41   | 8 <sup>X</sup> 4   | 5 <sup>37</sup>    | 24 <sup>56</sup>   | 12 <sup>14</sup> | 17 <sup>22</sup>   | 11 <sup>0</sup>   | 1 <sup>30</sup>    | 21 <sup>10</sup>   | 20 <sup>23</sup>   | 28 <sup>15</sup>   | 26 <sup>42</sup>    | 10 <sup>25</sup>  | n.a. |
| S 20 | 13 6 38  | 17 <sup>57</sup> 03   | 22 <sup>57</sup>   | 5 <sup>49</sup>    | 26 <sup>6</sup>    | 12 <sup>42</sup> | 17 <sup>32</sup>   | 11 <sup>7</sup>   | 1 <sup>33</sup>    | 21 <sup>12</sup>   | 20 <sup>22</sup>   | 28 <sup>13</sup>   | 26 <sup>38</sup>    | 10 <sup>32</sup>  | n.a. |
| S 21 | 13 10 35 | 18 <sup>54</sup> 24   | 8 <sup>Y</sup> 5   | 5 <sup>56</sup>    | 27 <sup>15</sup>   | 13 <sup>10</sup> | 17 <sup>42</sup>   | 11 <sup>15</sup>  | 1 <sup>36</sup>    | 21 <sup>14</sup>   | 20 <sup>22</sup>   | 28 <sup>9</sup>    | 26 <sup>35</sup>    | 10 <sup>39</sup>  | n.a. |
| M 22 | 13 14 31 | 19 <sup>51</sup> 44   | 23 <sup>20</sup>   | 5 <sup>R</sup> 59  | 28 <sup>24</sup>   | 13 <sup>39</sup> | 17 <sup>52</sup>   | 11 <sup>23</sup>  | 1 <sup>39</sup>    | 21 <sup>17</sup>   | 20 <sup>21</sup>   | 28 <sup>2</sup>    | 26 <sup>32</sup>    | 10 <sup>45</sup>  | n.a. |
| T 23 | 13 18 28 | 20 <sup>49</sup> 04   | 8 <sup>32</sup> ♁  | 5 <sup>57</sup>    | 29 <sup>33</sup>   | 14 <sup>8</sup>  | 18 <sup>2</sup>    | 11 <sup>31</sup>  | 1 <sup>41</sup>    | 21 <sup>19</sup>   | 20 <sup>20</sup>   | 27 <sup>55</sup>   | 26 <sup>29</sup>    | 10 <sup>52</sup>  | n.a. |
| W 24 | 13 22 24 | 21 <sup>46</sup> 22   | 23 <sup>29</sup>   | 5 <sup>51</sup>    | 0 <sup>II</sup> 43 | 14 <sup>36</sup> | 18 <sup>12</sup>   | 11 <sup>39</sup>  | 1 <sup>44</sup>    | 21 <sup>21</sup>   | 20 <sup>20</sup>   | 27 <sup>47</sup>   | 26 <sup>26</sup>    | 10 <sup>5</sup>   |      |

SWISS EPHEMERIS for the year 1241 BCE

MAY 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉         | ☽      | ♀      | ♂      | ♃      | ♄      | ♅      | ♆      | ♇      | ♁      | ♂      | ♆      | ♅      |      |
|------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| W 1  | 13 50 0  | 28°Y27'01 | 26°Ω17 | 3°R23  | 8°II43 | 18°S 4 | 19°Λ19 | 12°Υ33 | 2°II 6 | 21°Υ37 | 20°R17 | 27°R30 | 26°Ω 3 | 11°Δ45 | n.a. |
| T 2  | 13 53 57 | 29°24'10  | 8°Π15  | 2°S52  | 9°S 2  | 18°34  | 19°28  | 12°41  | 2° 9   | 21°39  | 20°Ω16 | 27°Ω29 | 26° 0  | 11°52  | n.a. |
| F 3  | 13 57 53 | 0°S21'19  | 20° 6  | 2°19   | 11° 0  | 19° 5  | 19°37  | 12°49  | 2°12   | 21°41  | 20°16  | 27°27  | 25°57  | 11°59  | n.a. |
| S 4  | 14 1 50  | 1°18'28   | 1°Δ55  | 1°45   | 12° 8  | 19°35  | 19°45  | 12°56  | 2°16   | 21°43  | 20°16  | 27°22  | 25°54  | 12° 5  | n.a. |
| S 5  | 14 5 46  | 2°15'35   | 13°45  | 1°11   | 13°15  | 20° 6  | 19°54  | 13° 4  | 2°19   | 21°46  | 20°15  | 27°14  | 25°51  | 12°12  | n.a. |
| M 6  | 14 9 43  | 3°12'42   | 25°37  | 0°38   | 14°23  | 20°37  | 20° 2  | 13°12  | 2°22   | 21°48  | 20°15  | 27° 4  | 25°47  | 12°19  | n.a. |
| T 7  | 14 13 39 | 4° 9'48   | 7°Π34  | 0° 5   | 15°31  | 21° 9  | 20°11  | 13°19  | 2°25   | 21°50  | 20°15  | 26°53  | 25°44  | 12°26  | n.a. |
| W 8  | 14 17 36 | 5° 6'54   | 19°38  | 29°Υ35 | 16°38  | 21°40  | 20°19  | 13°27  | 2°29   | 21°52  | 20°15  | 26°41  | 25°41  | 12°32  | n.a. |
| T 9  | 14 21 32 | 6° 4'00   | 1°A49  | 29° 6  | 17°45  | 22°11  | 20°27  | 13°34  | 2°32   | 21°54  | 20°15  | 26°29  | 25°38  | 12°39  | n.a. |
| F 10 | 14 25 29 | 7° 1'05   | 14° 9  | 28°40  | 18°52  | 22°43  | 20°35  | 13°42  | 2°35   | 21°57  | 20°15  | 26°18  | 25°35  | 12°46  | n.a. |
| S 11 | 14 29 26 | 7°58'10   | 26°39  | 28°18  | 19°59  | 23°15  | 20°43  | 13°49  | 2°39   | 21°59  | 20°15  | 26°10  | 25°32  | 12°52  | n.a. |
| S 12 | 14 33 22 | 8°55'15   | 9°S21  | 27°58  | 21° 6  | 23°47  | 20°50  | 13°57  | 2°42   | 22° 1  | 20°D15 | 26° 4  | 25°28  | 12°59  | n.a. |
| M13  | 14 37 19 | 9°52'20   | 22°17  | 27°43  | 22°13  | 24°19  | 20°58  | 14° 4  | 2°46   | 22° 3  | 20°15  | 26° 1  | 25°25  | 13° 6  | n.a. |
| T 14 | 14 41 15 | 10°49'25  | 5°S31  | 27°31  | 23°19  | 24°51  | 21° 5  | 14°12  | 2°49   | 22° 5  | 20°15  | 26° 0  | 25°22  | 13°12  | n.a. |
| W15  | 14 45 12 | 11°46'30  | 19° 4  | 27°24  | 24°26  | 25°24  | 21°13  | 14°19  | 2°53   | 22° 7  | 20°15  | 26° 0  | 25°19  | 13°19  | n.a. |
| T 16 | 14 49 8  | 12°43'34  | 2°X59  | 27°D21 | 25°32  | 25°56  | 21°20  | 14°26  | 2°56   | 22°10  | 20°15  | 26° 0  | 25°16  | 13°26  | n.a. |
| F 17 | 14 53 5  | 13°40'39  | 17°16  | 27°23  | 26°38  | 26°29  | 21°27  | 14°34  | 2°59   | 22°12  | 20°15  | 25°59  | 25°13  | 13°32  | n.a. |
| S 18 | 14 57 1  | 14°37'44  | 1°Υ55  | 27°30  | 27°44  | 27° 2  | 21°33  | 14°41  | 3° 3   | 22°14  | 20°15  | 25°55  | 25° 9  | 13°39  | n.a. |
| S 19 | 15 0 58  | 15°34'50  | 16°49  | 27°41  | 28°49  | 27°35  | 21°40  | 14°48  | 3° 6   | 22°16  | 20°15  | 25°49  | 25° 6  | 13°46  | n.a. |
| M20  | 15 4 55  | 16°31'55  | 1°S53  | 27°57  | 29°55  | 28° 8  | 21°47  | 14°55  | 3°10   | 22°18  | 20°16  | 25°40  | 25° 3  | 13°52  | n.a. |
| T 21 | 15 8 51  | 17°29'00  | 16°58  | 28°18  | 1°S 0  | 28°42  | 21°53  | 15° 2  | 3°14   | 22°20  | 20°16  | 25°30  | 25° 0  | 13°59  | n.a. |
| W22  | 15 12 48 | 18°26'06  | 1°II52 | 28°44  | 2° 5   | 29°15  | 21°59  | 15°10  | 3°17   | 22°22  | 20°16  | 25°19  | 24°57  | 14° 6  | n.a. |
| T 23 | 15 16 44 | 19°23'11  | 16°27  | 29°15  | 3°10   | 29°49  | 22° 5  | 15°17  | 3°21   | 22°24  | 20°17  | 25° 9  | 24°53  | 14°13  | n.a. |
| F 24 | 15 20 41 | 20°20'16  | 0°S38  | 29°50  | 4°15   | 0°Ω22  | 22°11  | 15°24  | 3°24   | 22°26  | 20°17  | 25° 0  | 24°50  | 14°19  | n.a. |
| S 25 | 15 24 37 | 21°17'22  | 14°19  | 0°S30  | 5°19   | 0°56   | 22°17  | 15°31  | 3°28   | 22°28  | 20°17  | 24°54  | 24°47  | 14°26  | n.a. |
| S 26 | 15 28 34 | 22°14'27  | 27°33  | 1°15   | 6°24   | 1°30   | 22°22  | 15°38  | 3°31   | 22°30  | 20°18  | 24°51  | 24°44  | 14°33  | n.a. |
| M27  | 15 32 30 | 23°11'32  | 10°Ω20 | 2° 4   | 7°28   | 2° 4   | 22°28  | 15°44  | 3°35   | 22°32  | 20°18  | 24°49  | 24°41  | 14°39  | n.a. |
| T 28 | 15 36 27 | 24° 8'37  | 22°46  | 2°58   | 8°32   | 2°38   | 22°33  | 15°51  | 3°39   | 22°34  | 20°19  | 24°49  | 24°38  | 14°46  | n.a. |
| W29  | 15 40 24 | 25° 5'41  | 4°Π54  | 3°56   | 9°35   | 3°13   | 22°38  | 15°58  | 3°42   | 22°36  | 20°19  | 24°49  | 24°34  | 14°53  | n.a. |
| T 30 | 15 44 20 | 26° 2'46  | 16°52  | 4°59   | 10°39  | 3°47   | 22°43  | 16° 5  | 3°46   | 22°38  | 20°20  | 24°48  | 24°31  | 14°59  | n.a. |
| F 31 | 15 48 17 | 26°S59'51 | 28°Π43 | 6°S 6  | 11°S42 | 4°Ω22  | 22°47  | 16°Υ11 | 3°II49 | 22°Υ40 | 20°Ω20 | 24°Ω45 | 24°Ω28 | 15°Δ 6 | n.a. |

Delta T = 08h31m45s Julian Calendar 1 May 1241 BCE == Greg. Calendar 20 Apr. 1241 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

JUNE 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉          | ☽       | ♀      | ♂      | ♃      | ♄      | ♅      | ♆      | ♇      | ♁      | ♂      | ♆      | ♅      |      |
|------|----------|------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| S 1  | 15 52 13 | 27°S56'56  | 10°Δ32  | 7°S18  | 12°S45 | 4°Ω57  | 22°S52 | 16°Υ18 | 3°II53 | 22°Υ42 | 20°Ω21 | 24°R39 | 24°Ω25 | 15°Δ13 | n.a. |
| S 2  | 15 56 10 | 28°54'01   | 22°23   | 8°33   | 13°47  | 5°31   | 22°56  | 16°25  | 3°57   | 22°44  | 20°22  | 24°Ω31 | 24°22  | 15°19  | n.a. |
| M 3  | 16 0 6   | 29°51'06   | 4°Π20   | 9°53   | 14°50  | 6° 6   | 23° 0  | 16°31  | 4° 0   | 22°46  | 20°22  | 24°21  | 24°19  | 15°26  | n.a. |
| T 4  | 16 4 3   | 0°II48'12  | 16°25   | 11°17  | 15°52  | 6°41   | 23° 4  | 16°38  | 4° 4   | 22°48  | 20°23  | 24° 8  | 24°15  | 15°33  | n.a. |
| W 5  | 16 7 59  | 1°45'18    | 28°39   | 12°45  | 16°54  | 7°17   | 23° 8  | 16°44  | 4° 8   | 22°49  | 20°24  | 23°55  | 24°12  | 15°40  | n.a. |
| T 6  | 16 11 56 | 2°42'24    | 11°A 3  | 14°17  | 17°55  | 7°52   | 23°12  | 16°50  | 4°11   | 22°51  | 20°25  | 23°42  | 24° 9  | 15°46  | n.a. |
| F 7  | 16 15 53 | 3°39'32    | 23°38   | 15°53  | 18°56  | 8°27   | 23°15  | 16°57  | 4°15   | 22°53  | 20°26  | 23°31  | 24° 6  | 15°53  | n.a. |
| S 8  | 16 19 49 | 4°36'40    | 6°S23   | 17°32  | 19°57  | 9° 3   | 23°18  | 17° 3  | 4°19   | 22°55  | 20°26  | 23°22  | 24° 3  | 16° 0  | n.a. |
| S 9  | 16 23 46 | 5°33'48    | 19°20   | 19°15  | 20°58  | 9°39   | 23°22  | 17° 9  | 4°22   | 22°57  | 20°27  | 23°15  | 23°59  | 16° 6  | n.a. |
| M10  | 16 27 42 | 6°30'58    | 2°S28   | 21° 2  | 21°58  | 10°14  | 23°24  | 17°15  | 4°26   | 22°58  | 20°28  | 23°11  | 23°56  | 16°13  | n.a. |
| T 11 | 16 31 39 | 7°28'08    | 15°49   | 22°51  | 22°58  | 10°50  | 23°27  | 17°21  | 4°30   | 23° 0  | 20°29  | 23°10  | 23°53  | 16°20  | n.a. |
| W12  | 16 35 35 | 8°25'19    | 29°25   | 24°44  | 23°57  | 11°26  | 23°30  | 17°27  | 4°33   | 23° 2  | 20°30  | 23°D10 | 23°50  | 16°26  | n.a. |
| T 13 | 16 39 32 | 9°22'32    | 13°X16  | 26°39  | 24°57  | 12° 2  | 23°32  | 17°33  | 4°37   | 23° 4  | 20°31  | 23°R10 | 23°47  | 16°33  | n.a. |
| F 14 | 16 43 28 | 10°19'45   | 27°23   | 28°37  | 25°56  | 12°38  | 23°34  | 17°39  | 4°40   | 23° 5  | 20°32  | 23° 9  | 23°44  | 16°40  | n.a. |
| S 15 | 16 47 25 | 11°17'00   | 11°Υ46  | 0°II37 | 26°54  | 13°15  | 23°36  | 17°45  | 4°44   | 23° 7  | 20°33  | 23° 6  | 23°40  | 16°47  | n.a. |
| S 16 | 16 51 22 | 12°14'15   | 26°21   | 2°38   | 27°52  | 13°51  | 23°38  | 17°51  | 4°48   | 23° 8  | 20°34  | 23° 1  | 23°37  | 16°53  | n.a. |
| M17  | 16 55 18 | 13°11'32   | 11°S 4  | 4°41   | 28°50  | 14°28  | 23°40  | 17°56  | 4°51   | 23°10  | 20°36  | 22°53  | 23°34  | 17° 0  | n.a. |
| T 18 | 16 59 15 | 14° 8'50   | 25°48   | 6°46   | 29°47  | 15° 4  | 23°41  | 18° 2  | 4°55   | 23°12  | 20°37  | 22°43  | 23°31  | 17° 7  | n.a. |
| W19  | 17 3 11  | 15° 6'09   | 10°II25 | 8°51   | 0°Ω44  | 15°41  | 23°42  | 18° 7  | 4°59   | 23°13  | 20°38  | 22°33  | 23°28  | 17°13  | n.a. |
| T 20 | 17 7 8   | 16° 3'29   | 24°47   | 10°57  | 1°40   | 16°18  | 23°43  | 18°13  | 5° 2   | 23°15  | 20°39  | 22°24  | 23°25  | 17°20  | n.a. |
| F 21 | 17 11 4  | 17° 0'50   | 8°S49   | 13° 3  | 2°36   | 16°55  | 23°44  | 18°18  | 5° 6   | 23°16  | 20°40  | 22°15  | 23°21  | 17°27  | n.a. |
| S 22 | 17 15 1  | 17°58'11   | 22°26   | 15° 9  | 3°32   | 17°32  | 23°44  | 18°23  | 5° 9   | 23°18  | 20°42  | 22°10  | 23°18  | 17°33  | n.a. |
| S 23 | 17 18 57 | 18°55'34   | 5°Ω39   | 17°15  | 4°27   | 18° 9  | 23°45  | 18°29  | 5°13   | 23°19  | 20°43  | 22° 6  | 23°15  | 17°40  | n.a. |
| M24  | 17 22 54 | 19°52'57   | 18°27   | 19°20  | 5°21   | 18°46  | 23°45  | 18°34  | 5°17   | 23°21  | 20°44  | 22°D 5 | 23°12  | 17°47  | n.a. |
| T 25 | 17 26 51 | 20°50'22   | 0°Π54   | 21°24  | 6°15   | 19°23  | 23°R45 | 18°39  | 5°20   | 23°22  | 20°46  | 22° 5  | 23° 9  | 17°54  | n.a. |
| W26  | 17 30 47 | 21°47'47   | 13° 4   | 23°28  | 7° 8   | 20° 1  | 23°45  | 18°44  | 5°24   | 23°23  | 20°47  | 22° 6  | 23° 5  | 18° 0  | n.a. |
| T 27 | 17 34 44 | 22°45'13   | 25° 3   | 25°31  | 8° 1   | 20°38  | 23°45  | 18°49  | 5°27   | 23°25  | 20°48  | 22°R 6 | 23° 2  | 18° 7  | n.a. |
| F 28 | 17 38 40 | 23°42'40   | 6°S55   | 27°32  | 8°53   | 21°16  | 23°44  | 18°54  | 5°31   | 23°26  | 20°50  | 22° 5  | 22°59  | 18°14  | n.a. |
| S 29 | 17 42 37 | 24°40'08   | 18°46   | 29°32  | 9°45   | 21°54  | 23°43  | 18°58  | 5°34   | 23°27  | 20°51  | 22° 2  | 22°56  | 18°20  | n.a. |
| S 30 | 17 46 33 | 25°II37'37 | 0°Π41   | 1°S31  | 10°Ω36 | 22°Ω32 | 23°S42 | 19°Υ 3 | 5°II38 | 23°Υ29 | 20°Ω53 | 21°Ω57 | 22°Ω53 | 18°Δ27 | n.a. |

Delta T = 08h31m44s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [20.1.2005]

SWISS EPHEMERIS for the year 1241 BCE

JULY 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂     | ♃     | ♄      | ♅     | ♆    | ♇     | ♁     | ♂      | ♆     | ♁     |      |
|------|----------|----------|-------|-------|-------|-------|--------|-------|------|-------|-------|--------|-------|-------|------|
| M 1  | 17 50 30 | 26Ⅲ35°07 | 12Ⅱ42 | 3♁29  | 11♂26 | 23♂10 | 23°R41 | 19Ⅱ8  | 5Ⅱ41 | 23Ⅱ30 | 20♂54 | 21°R50 | 22♂50 | 18♂34 | n.a. |
| T 2  | 17 54 26 | 27°32'38 | 24°54 | 5°25  | 12°15 | 23°48 | 23♂40  | 19°12 | 5°45 | 23°31 | 20°56 | 21♂41  | 22°46 | 18°40 | n.a. |
| W 3  | 17 58 23 | 28°30'11 | 7♂18  | 7°20  | 13° 4 | 24°26 | 23°38  | 19°17 | 5°48 | 23°32 | 20°57 | 21°32  | 22°43 | 18°47 | n.a. |
| T 4  | 18 2 20  | 29°27'44 | 19°56 | 9°13  | 13°52 | 25° 4 | 23°36  | 19°21 | 5°52 | 23°33 | 20°59 | 21°22  | 22°40 | 18°54 | n.a. |
| F 5  | 18 6 16  | 0♁25°20  | 2♁48  | 11° 5 | 14°40 | 25°42 | 23°34  | 19°25 | 5°55 | 23°34 | 21° 1 | 21°14  | 22°37 | 19° 1 | n.a. |
| S 6  | 18 10 13 | 1°22'56  | 15°54 | 12°55 | 15°26 | 26°21 | 23°32  | 19°29 | 5°58 | 23°35 | 21° 2 | 21° 8  | 22°34 | 19° 7 | n.a. |
| S 7  | 18 14 9  | 2°20'34  | 29°11 | 14°44 | 16°12 | 26°59 | 23°30  | 19°34 | 6° 2 | 23°37 | 21° 4 | 21° 3  | 22°31 | 19°14 | n.a. |
| M 8  | 18 18 6  | 3°18'14  | 12♂40 | 16°31 | 16°56 | 27°38 | 23°27  | 19°38 | 6° 5 | 23°38 | 21° 6 | 21° 1  | 22°27 | 19°21 | n.a. |
| T 9  | 18 22 2  | 4°15'55  | 26°20 | 18°17 | 17°40 | 28°16 | 23°25  | 19°41 | 6° 8 | 23°39 | 21° 7 | 21°D 1 | 22°24 | 19°27 | n.a. |
| W10  | 18 25 59 | 5°13'38  | 10♂8  | 20° 2 | 18°23 | 28°55 | 23°22  | 19°45 | 6°12 | 23°40 | 21° 9 | 21° 2  | 22°21 | 19°34 | n.a. |
| T 11 | 18 29 55 | 6°11'23  | 24° 6 | 21°45 | 19° 5 | 29°34 | 23°19  | 19°49 | 6°15 | 23°41 | 21°11 | 21° 3  | 22°18 | 19°41 | n.a. |
| F 12 | 18 33 52 | 7° 9'10  | 8Ⅱ12  | 23°27 | 19°46 | 0Ⅱ13  | 23°15  | 19°53 | 6°18 | 23°41 | 21°13 | 21°R 4 | 22°15 | 19°47 | n.a. |
| S 13 | 18 37 49 | 8° 6'59  | 22°25 | 25° 7 | 20°26 | 0°52  | 23°12  | 19°56 | 6°21 | 23°42 | 21°14 | 21° 3  | 22°11 | 19°54 | n.a. |
| S 14 | 18 41 45 | 9° 4'49  | 6♂43  | 26°46 | 21° 5 | 1°31  | 23° 8  | 20° 0 | 6°25 | 23°43 | 21°16 | 21° 0  | 22° 8 | 20° 1 | n.a. |
| M15  | 18 45 42 | 10° 2'42 | 21° 3 | 28°24 | 21°43 | 2°10  | 23° 4  | 20° 3 | 6°28 | 23°44 | 21°18 | 20°56  | 22° 5 | 20° 8 | n.a. |
| T 16 | 18 49 38 | 11° 0'37 | 5Ⅱ20  | 0♂ 0  | 22°19 | 2°49  | 23° 0  | 20° 6 | 6°31 | 23°45 | 21°20 | 20°50  | 22° 2 | 20°14 | n.a. |
| W17  | 18 53 35 | 11°58'33 | 19°31 | 1°35  | 22°55 | 3°29  | 22°56  | 20° 9 | 6°34 | 23°46 | 21°22 | 20°44  | 21°59 | 20°21 | n.a. |
| T 18 | 18 57 31 | 12°56'32 | 3♁29  | 3° 9  | 23°29 | 4° 8  | 22°52  | 20°12 | 6°37 | 23°46 | 21°24 | 20°38  | 21°56 | 20°28 | n.a. |
| F 19 | 19 1 28  | 13°54'32 | 17°12 | 4°41  | 24° 2 | 4°48  | 22°47  | 20°15 | 6°40 | 23°47 | 21°26 | 20°33  | 21°52 | 20°34 | n.a. |
| S 20 | 19 5 25  | 14°52'34 | 0♂36  | 6°11  | 24°33 | 5°28  | 22°42  | 20°18 | 6°44 | 23°48 | 21°28 | 20°30  | 21°49 | 20°41 | n.a. |
| S 21 | 19 9 21  | 15°50'37 | 13°39 | 7°41  | 25° 3 | 6° 7  | 22°38  | 20°21 | 6°47 | 23°48 | 21°30 | 20°28  | 21°46 | 20°48 | n.a. |
| M22  | 19 13 18 | 16°48'42 | 26°22 | 9° 9  | 25°32 | 6°47  | 22°33  | 20°24 | 6°50 | 23°49 | 21°32 | 20°D28 | 21°43 | 20°54 | n.a. |
| T 23 | 19 17 14 | 17°46'49 | 8Ⅱ48  | 10°36 | 25°59 | 7°27  | 22°27  | 20°26 | 6°53 | 23°49 | 21°34 | 20°29  | 21°40 | 21° 1 | n.a. |
| W24  | 19 21 11 | 18°44'58 | 20°58 | 12° 1 | 26°24 | 8° 7  | 22°22  | 20°29 | 6°55 | 23°50 | 21°36 | 20°31  | 21°36 | 21° 8 | n.a. |
| T 25 | 19 25 7  | 19°43'08 | 2♁58  | 13°25 | 26°48 | 8°47  | 22°16  | 20°31 | 6°58 | 23°50 | 21°38 | 20°33  | 21°33 | 21°15 | n.a. |
| F 26 | 19 29 4  | 20°41'19 | 14°51 | 14°47 | 27°10 | 9°27  | 22°11  | 20°33 | 7° 1 | 23°51 | 21°40 | 20°34  | 21°30 | 21°21 | n.a. |
| S 27 | 19 33 0  | 21°39'33 | 26°43 | 16° 8 | 27°30 | 10° 8 | 22° 5  | 20°35 | 7° 4 | 23°51 | 21°42 | 20°R34 | 21°27 | 21°28 | n.a. |
| S 28 | 19 36 57 | 22°37'48 | 8Ⅱ39  | 17°27 | 27°48 | 10°48 | 21°59  | 20°37 | 7° 7 | 23°52 | 21°44 | 20°33  | 21°24 | 21°35 | n.a. |
| M29  | 19 40 53 | 23°36'04 | 20°42 | 18°45 | 28° 5 | 11°28 | 21°53  | 20°39 | 7°10 | 23°52 | 21°46 | 20°30  | 21°21 | 21°41 | n.a. |
| T 30 | 19 44 50 | 24°34'23 | 2♁57  | 20° 1 | 28°19 | 12° 9 | 21°47  | 20°41 | 7°13 | 23°52 | 21°48 | 20°27  | 21°17 | 21°48 | n.a. |
| W31  | 19 48 47 | 25♁32'43 | 15♂28 | 21♂15 | 28♂32 | 12Ⅱ49 | 21♂40  | 20Ⅱ43 | 7Ⅱ15 | 23Ⅱ53 | 21♂50 | 20♂23  | 21♂14 | 21♂55 | n.a. |

Delta T = 08h31m42s Julian Calendar 1 July 1241 BCE == Greg. Calendar 20 June 1241 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

AUGUST 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉        | ☽     | ♀     | ♂      | ♃     | ♄      | ♅      | ♆    | ♇      | ♁     | ♂      | ♆     | ♁     |      |
|------|----------|----------|-------|-------|--------|-------|--------|--------|------|--------|-------|--------|-------|-------|------|
| T 1  | 19 52 43 | 26♁31°05 | 28♂16 | 22♂28 | 28♂42  | 13Ⅱ30 | 21°R34 | 20Ⅱ44  | 7Ⅱ18 | 23Ⅱ53  | 21♂52 | 20°R19 | 21♂11 | 22♂ 2 | n.a. |
| F 2  | 19 56 40 | 27°29'29 | 11♁23 | 23°38 | 28°51  | 14°11 | 21♂27  | 20°46  | 7°21 | 23°53  | 21°54 | 20♂16  | 21° 8 | 22° 8 | n.a. |
| S 3  | 20 0 36  | 28°27'55 | 24°48 | 24°47 | 28°57  | 14°52 | 21°20  | 20°47  | 7°23 | 23°53  | 21°57 | 20°13  | 21° 5 | 22°15 | n.a. |
| S 4  | 20 4 33  | 29°26'23 | 8♂29  | 25°54 | 29° 1  | 15°33 | 21°13  | 20°48  | 7°26 | 23°54  | 21°59 | 20°12  | 21° 2 | 22°22 | n.a. |
| M 5  | 20 8 29  | 0♂24°53  | 22°24 | 26°58 | 29°R 2 | 16°14 | 21° 6  | 20°50  | 7°28 | 23°54  | 22° 1 | 20°D12 | 20°58 | 22°28 | n.a. |
| T 6  | 20 12 26 | 1°23'25  | 6♂29  | 28° 1 | 29° 2  | 16°55 | 20°59  | 20°51  | 7°31 | 23°54  | 22° 3 | 20°12  | 20°55 | 22°35 | n.a. |
| W 7  | 20 16 23 | 2°21'59  | 20°42 | 29° 0 | 28°59  | 17°36 | 20°52  | 20°52  | 7°33 | 23°54  | 22° 5 | 20°13  | 20°52 | 22°42 | n.a. |
| T 8  | 20 20 19 | 3°20'35  | 4Ⅱ58  | 29°57 | 28°53  | 18°17 | 20°45  | 20°52  | 7°36 | 23°R54 | 22° 8 | 20°14  | 20°49 | 22°48 | n.a. |
| F 9  | 20 24 16 | 4°19'14  | 19°14 | 0Ⅱ52  | 28°45  | 18°58 | 20°37  | 20°53  | 7°38 | 23°54  | 22°10 | 20°15  | 20°46 | 22°55 | n.a. |
| S 10 | 20 28 12 | 5°17'56  | 3♁28  | 1°43  | 28°35  | 19°40 | 20°30  | 20°54  | 7°40 | 23°54  | 22°12 | 20°R16 | 20°42 | 23° 2 | n.a. |
| S 11 | 20 32 9  | 6°16'39  | 17°37 | 2°31  | 28°23  | 20°21 | 20°22  | 20°54  | 7°43 | 23°54  | 22°14 | 20°16  | 20°39 | 23° 9 | n.a. |
| M12  | 20 36 5  | 7°15'26  | 1Ⅱ40  | 3°15  | 28° 8  | 21° 3 | 20°15  | 20°55  | 7°45 | 23°54  | 22°17 | 20°15  | 20°36 | 23°15 | n.a. |
| T 13 | 20 40 2  | 8°14'14  | 15°34 | 3°56  | 27°51  | 21°44 | 20° 7  | 20°55  | 7°47 | 23°54  | 22°19 | 20°14  | 20°33 | 23°22 | n.a. |
| W14  | 20 43 58 | 9°13'06  | 29°17 | 4°33  | 27°31  | 22°26 | 19°59  | 20°55  | 7°49 | 23°53  | 22°21 | 20°12  | 20°30 | 23°29 | n.a. |
| T 15 | 20 47 55 | 10°11'59 | 12♁48 | 5° 5  | 27°10  | 23° 8 | 19°51  | 20°R55 | 7°52 | 23°53  | 22°23 | 20°11  | 20°27 | 23°35 | n.a. |
| F 16 | 20 51 52 | 11°10'55 | 26° 5 | 5°33  | 26°46  | 23°50 | 19°44  | 20°55  | 7°54 | 23°53  | 22°26 | 20°10  | 20°23 | 23°42 | n.a. |
| S 17 | 20 55 48 | 12° 9'53 | 9♂ 8  | 5°55  | 26°20  | 24°32 | 19°36  | 20°55  | 7°56 | 23°53  | 22°28 | 20° 9  | 20°20 | 23°49 | n.a. |
| S 18 | 20 59 45 | 13° 8'53 | 21°56 | 6°12  | 25°53  | 25°14 | 19°28  | 20°55  | 7°58 | 23°52  | 22°30 | 20°D 9 | 20°17 | 23°56 | n.a. |
| M19  | 21 3 41  | 14° 7'55 | 4Ⅱ29  | 6°23  | 25°23  | 25°56 | 19°20  | 20°54  | 8° 0 | 23°52  | 22°33 | 20° 9  | 20°14 | 24° 2 | n.a. |
| T 20 | 21 7 38  | 15° 6'59 | 16°48 | 6°R27 | 24°52  | 26°38 | 19°12  | 20°54  | 8° 2 | 23°52  | 22°35 | 20°10  | 20°11 | 24° 9 | n.a. |
| W21  | 21 11 34 | 16° 6'06 | 28°55 | 6°25  | 24°20  | 27°20 | 19° 4  | 20°53  | 8° 3 | 23°51  | 22°37 | 20°10  | 20° 8 | 24°16 | n.a. |
| T 22 | 21 15 31 | 17° 5'14 | 10♁53 | 6°16  | 23°46  | 28° 3 | 18°56  | 20°52  | 8° 5 | 23°51  | 22°40 | 20°11  | 20° 4 | 24°22 | n.a. |
| F 23 | 21 19 27 | 18° 4'24 | 22°46 | 5°59  | 23°11  | 28°45 | 18°48  | 20°52  | 8° 7 | 23°50  | 22°42 | 20°11  | 20° 1 | 24°29 | n.a. |
| S 24 | 21 23 24 | 19° 3'36 | 4Ⅱ38  | 5°35  | 22°36  | 29°28 | 18°39  | 20°51  | 8° 9 | 23°50  | 22°44 | 20°11  | 19°58 | 24°36 | n.a. |
| S 25 | 21 27 20 | 20° 2'51 | 16°32 | 5° 3  | 22° 0  | 0♁10  | 18°31  | 20°50  | 8°10 | 23°49  | 22°47 | 20°11  | 19°55 | 24°43 | n.a. |
| M26  | 21 31 17 | 21° 2'07 | 28°34 | 4°23  | 21°23  | 0°53  | 18°23  | 20°48  | 8°12 | 23°49  | 22°49 | 20°11  | 19°52 | 24°49 | n.a. |
| T 27 | 21 35 14 | 22° 1'25 | 10♂48 | 3°35  | 20°47  | 1°35  | 18°15  | 20°47  | 8°14 | 23°48  | 22°51 | 20°11  | 19°48 | 24°56 | n.a. |
| W28  | 21 39 10 | 23° 0'45 | 23°19 | 2°41  | 20°10  | 2°18  | 18° 7  | 20°46  | 8°15 | 23°48  | 22°53 | 20°11  | 19°45 | 25° 3 | n.a. |
| T 29 | 21 43 7  | 24° 0'07 | 6♁ 9  | 1°41  | 19°34  | 3° 1  | 17°59  | 20°44  | 8°17 | 23°47  | 22°56 | 20°12  | 19°42 | 25° 9 | n.a. |
| F 30 | 21 47 3  | 24°59'31 | 19°22 | 0°35  | 18°59  | 3°44  | 17°51  | 20°43  | 8°18 | 23°46  | 22°58 | 20°12  | 19°39 | 25°16 | n.a. |
| S 31 | 21 51 0  | 25♂58'57 | 2♂59  | 29♂26 | 18♂24  | 4♁27  | 17♂44  | 20Ⅱ41  | 8Ⅱ19 | 23Ⅱ46  | 23♂ 0 | 20♂13  | 19♂36 | 25♂23 | n.a. |

Delta T = 08h31m40s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [20.1.2005]

SWISS EPHEMERIS for the year 1241 BCE

SEPTEMBER 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉   | ☽   | ♀                               | ♁                               | ♂                               | ♃                               | ♄                               | ♅                              | ♆                               | ♇                               | ♈                               | ♉                               | ♊                               | ♋    | ♌ | ♍ |
|------|----------|---|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------|---|---|
| S 1  | 21 54 56 | 26 <sup>h</sup> 58 <sup>m</sup> 25 <sup>s</sup> | 16 <sup>h</sup> 58 <sup>m</sup> 58 <sup>s</sup> | 28°R14                          | 17°R50                          | 5 <sup>h</sup> 10 <sup>m</sup>  | 17°R36                          | 20°R39                          | 8 <sup>h</sup> 22 <sup>m</sup> | 23°R45                          | 23 <sup>h</sup> 03 <sup>m</sup> | 20°R13                          | 19 <sup>h</sup> 03 <sup>m</sup> | 25 <sup>h</sup> 29 <sup>m</sup> | n.a. |   |   |
| M 2  | 21 58 53 | 27°57'55  | 1 <sup>h</sup> 16 <sup>m</sup> 1 <sup>s</sup>   | 27 <sup>h</sup> 03 <sup>m</sup> | 17 <sup>h</sup> 18 <sup>m</sup> | 5°53                            | 17 <sup>h</sup> 28 <sup>m</sup> | 20 <sup>h</sup> 37 <sup>m</sup> | 8°22                           | 23 <sup>h</sup> 44 <sup>m</sup> | 23° 5                           | 20 <sup>h</sup> 13 <sup>m</sup> | 19°29                           | 25°36                           | n.a. |   |   |
| T 3  | 22 2 49  | 28°57'27  | 15°49   | 25°53                           | 16°47                           | 6°36                            | 17°20                           | 20°35                           | 8°23                           | 23°43                           | 23° 7                           | 20°12                           | 19°26                           | 25°43                           | n.a. |   |   |
| W 4  | 22 6 46  | 29°57'02  | 0 <sup>h</sup> 30 <sup>m</sup>                  | 24°47                           | 16°18                           | 7°20                            | 17°12                           | 20°33                           | 8°24                           | 23°42                           | 23°10                           | 20°11                           | 19°23                           | 25°50                           | n.a. |   |   |
| T 5  | 22 10 43 | 0 <sup>h</sup> 56 <sup>m</sup> 38 <sup>s</sup>  | 15°13   | 23°47                           | 15°51                           | 8° 3                            | 17° 5                           | 20°31                           | 8°26                           | 23°42                           | 23°12                           | 20°10                           | 19°20                           | 25°56                           | n.a. |   |   |
| F 6  | 22 14 39 | 1°56'18   | 29°50   | 22°54                           | 15°25                           | 8°46                            | 16°57                           | 20°28                           | 8°27                           | 23°41                           | 23°14                           | 20° 9                           | 19°17                           | 26° 3                           | n.a. |   |   |
| S 7  | 22 18 36 | 2°55'59   | 14 <sup>h</sup> 17 <sup>m</sup>                 | 22°11                           | 15° 2                           | 9°30                            | 16°50                           | 20°26                           | 8°28                           | 23°40                           | 23°17                           | 20° 8                           | 19°13                           | 26°10                           | n.a. |   |   |
| S 8  | 22 22 32 | 3°55'43   | 28°30   | 21°37                           | 14°41                           | 10°13                           | 16°42                           | 20°23                           | 8°29                           | 23°39                           | 23°19                           | 20°D 7                          | 19°10                           | 26°16                           | n.a. |   |   |
| M 9  | 22 26 29 | 4°55'30   | 12 <sup>h</sup> 27 <sup>m</sup>                 | 21°14                           | 14°23                           | 10°57                           | 16°35                           | 20°21                           | 8°30                           | 23°38                           | 23°21                           | 20° 7                           | 19° 7                           | 26°23                           | n.a. |   |   |
| T 10 | 22 30 25 | 5°55'19   | 26° 6   | 21° 3                           | 14° 6                           | 11°41                           | 16°28                           | 20°18                           | 8°30                           | 23°37                           | 23°24                           | 20° 8                           | 19° 4                           | 26°30                           | n.a. |   |   |
| W11  | 22 34 22 | 6°55'11   | 9 <sup>h</sup> 30 <sup>m</sup>                  | 21°D 2                          | 13°52                           | 12°24                           | 16°21                           | 20°15                           | 8°31                           | 23°36                           | 23°26                           | 20° 9                           | 19° 1                           | 26°37                           | n.a. |   |   |
| T 12 | 22 38 18 | 7°55'04   | 22°37   | 21°13                           | 13°41                           | 13° 8                           | 16°14                           | 20°12                           | 8°32                           | 23°35                           | 23°28                           | 20°10                           | 18°58                           | 26°43                           | n.a. |   |   |
| F 13 | 22 42 15 | 8°55'01   | 5 <sup>h</sup> 31 <sup>m</sup>                  | 21°34                           | 13°32                           | 13°52                           | 16° 7                           | 20° 9                           | 8°33                           | 23°34                           | 23°30                           | 20°11                           | 18°54                           | 26°50                           | n.a. |   |   |
| S 14 | 22 46 12 | 9°54'59   | 18°12   | 22° 5                           | 13°25                           | 14°36                           | 16° 0                           | 20° 6                           | 8°33                           | 23°32                           | 23°33                           | 20°R12                          | 18°51                           | 26°57                           | n.a. |   |   |
| S 15 | 22 50 8  | 10°54'59  | 0 <sup>h</sup> 41 <sup>m</sup>                  | 22°45                           | 13°21                           | 15°20                           | 15°54                           | 20° 3                           | 8°34                           | 23°31                           | 23°35                           | 20°12                           | 18°48                           | 27° 3                           | n.a. |   |   |
| M16  | 22 54 5  | 11°55'02  | 13° 0   | 23°34                           | 13°D19                          | 16° 4                           | 15°47                           | 20° 0                           | 8°35                           | 23°30                           | 23°37                           | 20°10                           | 18°45                           | 27°10                           | n.a. |   |   |
| T 17 | 22 58 1  | 12°55'06  | 25° 9   | 24°30                           | 13°20                           | 16°48                           | 15°41                           | 19°56                           | 8°35                           | 23°29                           | 23°39                           | 20° 8                           | 18°42                           | 27°17                           | n.a. |   |   |
| W18  | 23 1 58  | 13°55'13  | 7 <sup>h</sup> 11 <sup>m</sup>                  | 25°32                           | 13°23                           | 17°33                           | 15°35                           | 19°53                           | 8°35                           | 23°28                           | 23°42                           | 20° 4                           | 18°39                           | 27°24                           | n.a. |   |   |
| T 19 | 23 5 54  | 14°55'21  | 19° 6   | 26°41                           | 13°28                           | 18°17                           | 15°29                           | 19°49                           | 8°36                           | 23°27                           | 23°44                           | 19°59                           | 18°35                           | 27°30                           | n.a. |   |   |
| F 20 | 23 9 51  | 15°55'31  | 0 <sup>h</sup> 58 <sup>m</sup>                  | 27°54                           | 13°36                           | 19° 1                           | 15°23                           | 19°46                           | 8°36                           | 23°25                           | 23°46                           | 19°55                           | 18°32                           | 27°37                           | n.a. |   |   |
| S 21 | 23 13 47 | 16°55'44  | 12°48   | 29°12                           | 13°46                           | 19°46                           | 15°17                           | 19°42                           | 8°36                           | 23°24                           | 23°48                           | 19°51                           | 18°29                           | 27°44                           | n.a. |   |   |
| S 22 | 23 17 44 | 17°55'57  | 24°41   | 0 <sup>h</sup> 34 <sup>m</sup>  | 13°58                           | 20°30                           | 15°11                           | 19°38                           | 8°37                           | 23°23                           | 23°50                           | 19°47                           | 18°26                           | 27°50                           | n.a. |   |   |
| M23  | 23 21 41 | 18°56'13  | 6 <sup>h</sup> 40 <sup>m</sup>                  | 1°59                            | 14°12                           | 21°15                           | 15° 6                           | 19°34                           | 8°37                           | 23°21                           | 23°53                           | 19°45                           | 18°23                           | 27°57                           | n.a. |   |   |
| T 24 | 23 25 37 | 19°56'30  | 18°50   | 3°26                            | 14°28                           | 21°59                           | 15° 1                           | 19°30                           | 8°37                           | 23°20                           | 23°55                           | 19°D44                          | 18°19                           | 28° 4                           | n.a. |   |   |
| W25  | 23 29 34 | 20°56'49  | 1 <sup>h</sup> 31 <sup>m</sup>                  | 4°56                            | 14°46                           | 22°44                           | 14°55                           | 19°26                           | 8°R37                          | 23°19                           | 23°57                           | 19°45                           | 18°16                           | 28°11                           | n.a. |   |   |
| T 26 | 23 33 30 | 21°57'10  | 14° 1   | 6°27                            | 15° 6                           | 23°29                           | 14°50                           | 19°22                           | 8°37                           | 23°17                           | 23°59                           | 19°46                           | 18°13                           | 28°17                           | n.a. |   |   |
| F 27 | 23 37 27 | 22°57'32  | 27°10   | 8° 0                            | 15°29                           | 24°13                           | 14°46                           | 19°18                           | 8°37                           | 23°16                           | 24° 1                           | 19°48                           | 18°10                           | 28°24                           | n.a. |   |   |
| S 28 | 23 41 23 | 23°57'56  | 10 <sup>h</sup> 46 <sup>m</sup>                 | 9°34                            | 15°52                           | 24°58                           | 14°41                           | 19°14                           | 8°37                           | 23°14                           | 24° 3                           | 19°49                           | 18° 7                           | 28°31                           | n.a. |   |   |
| S 29 | 23 45 20 | 24°58'21  | 24°50   | 11° 8                           | 16°18                           | 25°43                           | 14°37                           | 19°10                           | 8°37                           | 23°13                           | 24° 5                           | 19°R49                          | 18° 4                           | 28°37                           | n.a. |   |   |
| M30  | 23 49 16 | 25 <sup>h</sup> 58 <sup>m</sup> 48 <sup>s</sup> | 9 <sup>h</sup> 20 <sup>m</sup>                  | 12 <sup>h</sup> 44 <sup>m</sup> | 16 <sup>h</sup> 04 <sup>m</sup> | 26 <sup>h</sup> 28 <sup>m</sup> | 14 <sup>h</sup> 32 <sup>m</sup> | 19 <sup>h</sup> 5 <sup>m</sup>  | 8 <sup>h</sup> 36 <sup>m</sup> | 23 <sup>h</sup> 12 <sup>m</sup> | 24 <sup>h</sup> 07 <sup>m</sup> | 19 <sup>h</sup> 04 <sup>m</sup> | 18 <sup>h</sup> 00 <sup>m</sup> | 28 <sup>h</sup> 44 <sup>m</sup> | n.a. |   |   |

Delta T = 08h31m38s Julian Calendar 1 Sept. 1241 BCE == Greg. Calendar 21 Aug. 1241 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

OCTOBER 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t    | ☉   | ☽                               | ♀                               | ♁                               | ♂                               | ♃                               | ♄                               | ♅                              | ♆                               | ♇                               | ♈                               | ♉                               | ♊                               | ♋    | ♌ | ♍ |
|------|----------|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------|---|---|
| T 1  | 23 53 13 | 26 <sup>h</sup> 59 <sup>m</sup> 16 <sup>s</sup> | 24 <sup>h</sup> 11 <sup>m</sup> | 14 <sup>h</sup> 20 <sup>m</sup> | 17 <sup>h</sup> 15 <sup>m</sup> | 27 <sup>h</sup> 13 <sup>m</sup> | 14°R28                          | 19°R 1                          | 8°R36                          | 23°R10                          | 24 <sup>h</sup> 09 <sup>m</sup> | 19°R45                          | 17 <sup>h</sup> 05 <sup>m</sup> | 28 <sup>h</sup> 51 <sup>m</sup> | n.a. |   |   |
| W 2  | 23 57 9  | 27°59'46  | 9 <sup>h</sup> 16 <sup>m</sup>  | 15°56                           | 17°45                           | 27°58                           | 14 <sup>h</sup> 24 <sup>m</sup> | 18 <sup>h</sup> 57 <sup>m</sup> | 8 <sup>h</sup> 36 <sup>m</sup> | 23 <sup>h</sup> 9 <sup>m</sup>  | 24°11                           | 19 <sup>h</sup> 40 <sup>m</sup> | 17°54                           | 28°58                           | n.a. |   |   |
| T 3  | 0 1 6    | 29° 0'18  | 24°24                           | 17°33                           | 18°17                           | 28°43                           | 14°21                           | 18°52                           | 8°35                           | 23° 7                           | 24°13                           | 19°34                           | 17°51                           | 29° 4                           | n.a. |   |   |
| F 4  | 0 5 3    | 0 <sup>h</sup> 05 <sup>m</sup>                  | 9 <sup>h</sup> 28 <sup>m</sup>  | 19°10                           | 18°51                           | 29°28                           | 14°17                           | 18°47                           | 8°35                           | 23° 6                           | 24°15                           | 19°28                           | 17°48                           | 29°11                           | n.a. |   |   |
| S 5  | 0 8 59   | 1° 1'28   | 24°16                           | 20°47                           | 19°26                           | 0 <sup>h</sup> 14 <sup>m</sup>  | 14°14                           | 18°43                           | 8°34                           | 23° 4                           | 24°17                           | 19°22                           | 17°45                           | 29°18                           | n.a. |   |   |
| S 6  | 0 12 56  | 2° 2'06   | 8 <sup>h</sup> 43 <sup>m</sup>  | 22°24                           | 20° 3                           | 0°59                            | 14°11                           | 18°38                           | 8°34                           | 23° 2                           | 24°19                           | 19°18                           | 17°41                           | 29°24                           | n.a. |   |   |
| M 7  | 0 16 52  | 3° 2'46   | 22°46                           | 24° 1                           | 20°41                           | 1°44                            | 14° 8                           | 18°34                           | 8°33                           | 23° 1                           | 24°21                           | 19°16                           | 17°38                           | 29°31                           | n.a. |   |   |
| T 8  | 0 20 49  | 4° 3'28   | 6 <sup>h</sup> 24 <sup>m</sup>  | 25°38                           | 21°20                           | 2°30                            | 14° 5                           | 18°29                           | 8°33                           | 22°59                           | 24°23                           | 19°D15                          | 17°35                           | 29°38                           | n.a. |   |   |
| W 9  | 0 24 45  | 5° 4'11   | 19°39                           | 27°14                           | 22° 0                           | 3°15                            | 14° 3                           | 18°24                           | 8°32                           | 22°58                           | 24°25                           | 19°16                           | 17°32                           | 29°45                           | n.a. |   |   |
| T 10 | 0 28 42  | 6° 4'56   | 2 <sup>h</sup> 34 <sup>m</sup>  | 28°51                           | 22°42                           | 4° 1                            | 14° 0                           | 18°19                           | 8°31                           | 22°56                           | 24°27                           | 19°18                           | 17°29                           | 29°51                           | n.a. |   |   |
| F 11 | 0 32 38  | 7° 5'44   | 15°11                           | 0 <sup>h</sup> 27 <sup>m</sup>  | 23°24                           | 4°46                            | 13°58                           | 18°14                           | 8°30                           | 22°54                           | 24°29                           | 19°R19                          | 17°25                           | 29°58                           | n.a. |   |   |
| S 12 | 0 36 35  | 8° 6'32   | 27°35                           | 2° 3                            | 24° 8                           | 5°32                            | 13°56                           | 18°10                           | 8°29                           | 22°53                           | 24°31                           | 19°18                           | 17°22                           | 0 <sup>h</sup> 5 <sup>m</sup>   | n.a. |   |   |
| S 13 | 0 40 32  | 9° 7'23   | 9 <sup>h</sup> 49 <sup>m</sup>  | 3°39                            | 24°53                           | 6°18                            | 13°55                           | 18° 5                           | 8°28                           | 22°51                           | 24°32                           | 19°16                           | 17°19                           | 0°11                            | n.a. |   |   |
| M14  | 0 44 28  | 10° 8'15  | 21°55                           | 5°15                            | 25°39                           | 7° 3                            | 13°53                           | 18° 0                           | 8°28                           | 22°50                           | 24°34                           | 19°11                           | 17°16                           | 0°18                            | n.a. |   |   |
| T 15 | 0 48 25  | 11° 9'08  | 3 <sup>h</sup> 54 <sup>m</sup>  | 6°51                            | 26°26                           | 7°49                            | 13°52                           | 17°55                           | 8°26                           | 22°48                           | 24°36                           | 19° 4                           | 17°13                           | 0°25                            | n.a. |   |   |
| W16  | 0 52 21  | 12°10'03  | 15°50                           | 8°26                            | 27°14                           | 8°35                            | 13°51                           | 17°50                           | 8°25                           | 22°46                           | 24°38                           | 18°54                           | 17°10                           | 0°32                            | n.a. |   |   |
| T 17 | 0 56 18  | 13°10'59  | 27°43                           | 10° 1                           | 28° 2                           | 9°21                            | 13°50                           | 17°45                           | 8°24                           | 22°45                           | 24°39                           | 18°43                           | 17° 6                           | 0°38                            | n.a. |   |   |
| F 18 | 1 0 14   | 14°11'56  | 9 <sup>h</sup> 34 <sup>m</sup>  | 11°37                           | 28°52                           | 10° 7                           | 13°49                           | 17°40                           | 8°23                           | 22°43                           | 24°41                           | 18°32                           | 17° 3                           | 0°45                            | n.a. |   |   |
| S 19 | 1 4 11   | 15°12'55  | 21°26                           | 13°12                           | 29°42                           | 10°53                           | 13°49                           | 17°35                           | 8°22                           | 22°41                           | 24°43                           | 18°21                           | 17° 0                           | 0°52                            | n.a. |   |   |
| S 20 | 1 8 7    | 16°13'54  | 3 <sup>h</sup> 20 <sup>m</sup>  | 14°46                           | 0 <sup>h</sup> 33 <sup>m</sup>  | 11°39                           | 13°48                           | 17°30                           | 8°21                           | 22°39                           | 24°44                           | 18°11                           | 16°57                           | 0°59                            | n.a. |   |   |
| M21  | 1 12 4   | 17°14'55  | 15°19                           | 16°21                           | 1°25                            | 12°25                           | 13°D48                          | 17°25                           | 8°19                           | 22°38                           | 24°46                           | 18° 4                           | 16°54                           | 1° 5                            | n.a. |   |   |
| T 22 | 1 16 1   | 18°15'57  | 27°27                           | 17°56                           | 2°18                            | 13°11                           | 13°49                           | 17°20                           | 8°18                           | 22°36                           | 24°48                           | 17°59                           | 16°50                           | 1°12                            | n.a. |   |   |
| W23  | 1 19 57  | 19°16'59  | 9 <sup>h</sup> 38 <sup>m</sup>  | 19°30                           | 3°11                            | 13°57                           | 13°49                           | 17°15                           | 8°17                           | 22°34                           | 24°49                           | 17°57                           | 16°47                           | 1°19                            | n.a. |   |   |
| T 24 | 1 23 54  | 20°18'02  | 22°26                           | 21° 5                           | 4° 5                            | 14°43                           | 13°49                           | 17°10                           | 8°15                           | 22°33                           | 24°51                           | 17°D56                          | 16°44                           | 1°25                            | n.a. |   |   |
| F 25 | 1 27 50  | 21°19'07  | 5 <sup>h</sup> 26 <sup>m</sup>  | 22°39                           | 5° 0                            | 15°29                           | 13°50                           | 17° 5                           | 8°14                           | 22°31                           | 24°52                           | 17°57                           | 16°41                           | 1°32                            | n.a. |   |   |
| S 26 | 1 31 47  | 22°20'11  | 18°53                           | 24°13                           | 5°55                            | 16°16                           | 13°51                           | 17° 0                           | 8°12                           | 22°29                           | 24°54                           | 17°R57                          | 16°38                           | 1°39                            | n.a. |   |   |
| S 27 | 1 35 43  | 23°21'17  | 2 <sup>h</sup> 48 <sup>m</sup>  | 25°48                           | 6°51                            | 17° 2                           | 13°52                           | 16°55                           | 8°10                           | 22°28                           | 24°55                           | 17°56                           | 16°35                           | 1°46                            | n.a. |   |   |
| M28  | 1 39 40  | 24°22'23  | 17°12                           | 27°22                           | 7°48                            | 17°48                           | 13°54                           | 16°50                           | 8° 9                           | 22°26                           | 24°57                           | 17°53                           | 16°31                           | 1°52                            | n.a. |   |   |
| T 29 | 1 43 36  | 25°23'30  | 2 <sup>h</sup> 3 <sup>m</sup>   | 28°56                           | 8°45                            | 18°35                           | 13°55                           | 16°45                           | 8° 7                           | 22°24                           | 24°58                           | 17°47                           | 16°28                           | 1°59                            | n.a. |   |   |
| W30  | 1 47 33  | 26°24'37  | 17°15                           | 0 <sup>h</sup> 30 <sup>m</sup>  | 9°43                            | 19°21                           | 13°57                           | 16°40                           | 8° 5                           | 22°22                           | 24°59                           | 17°39                           | 16°25                           | 2° 6                            | n.a. |   |   |
| T 31 | 1 51 29  | 27 <sup>h</sup> 25 <sup>m</sup> 45 <sup>s</sup> | 2 <sup>h</sup> 37 <sup>m</sup>  | 2 <sup>h</sup> 5 <sup>m</sup>   | 10 <sup>h</sup> 41 <sup>m</sup> | 20 <sup>h</sup> 8 <sup>m</sup>  | 13 <sup>h</sup> 59 <sup>m</sup> | 16 <sup>h</sup> 36 <sup>m</sup> | 8 <sup>h</sup> 4 <sup>m</sup>  | 22 <sup>h</sup> 21 <sup>m</sup> | 25 <sup>h</sup> 01 <sup>m</sup> | 17 <sup>h</sup> 02 <sup>m</sup> | 16 <sup>h</sup> 02 <sup>m</sup> | 2 <sup>h</sup> 12 <sup>m</sup>  | n.a. |   |   |

Delta T = 08h31m37s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [20.1.2005]

SWISS EPHEMERIS for the year 1241 BCE

NOVEMBER 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀     | ♁     | ♂      | ♃     | ♄      | ♅     | ♆      | ♇     | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ |
|------|---------|----------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|------|---|---|
| F 1  | 1 55 26 | 28♌26'55 | 17♋57 | 3♍.39 | 11♎40 | 20♍.54 | 14♏.2 | 16°R31 | 8°R 2 | 22°R19 | 25♎ 2 | 17°R18 | 16♌19 | 2♍.19 | n.a. |   |   |
| S 2  | 1 59 23 | 29°28'05 | 3♎ 4  | 5°13  | 12°39 | 21°41  | 14° 4 | 16°V26 | 8♎ 0  | 22°V17 | 25° 3 | 17♎ 8  | 16°16 | 2°26  | n.a. |   |   |
| S 3  | 2 3 19  | 0♍.29'16 | 17°49 | 6°48  | 13°39 | 22°27  | 14° 7 | 16°21  | 7°58  | 22°16  | 25° 4 | 16°59  | 16°12 | 2°33  | n.a. |   |   |
| M 4  | 2 7 16  | 1°30'28  | 2♌ 7  | 8°22  | 14°39 | 23°14  | 14° 9 | 16°16  | 7°56  | 22°14  | 25° 6 | 16°54  | 16° 9 | 2°39  | n.a. |   |   |
| T 5  | 2 11 12 | 2°31'41  | 15°54 | 9°57  | 15°40 | 24° 0  | 14°12 | 16°12  | 7°54  | 22°12  | 25° 7 | 16°51  | 16° 6 | 2°46  | n.a. |   |   |
| W 6  | 2 15 9  | 3°32'55  | 29°13 | 11°32 | 16°41 | 24°47  | 14°16 | 16° 7  | 7°52  | 22°11  | 25° 8 | 16°D50 | 16° 3 | 2°53  | n.a. |   |   |
| T 7  | 2 19 5  | 4°34'09  | 12♎ 6 | 13° 6 | 17°43 | 25°34  | 14°19 | 16° 3  | 7°50  | 22° 9  | 25° 9 | 16°R50 | 16° 0 | 2°59  | n.a. |   |   |
| F 8  | 2 23 2  | 5°35'25  | 24°38 | 14°41 | 18°45 | 26°20  | 14°23 | 15°58  | 7°48  | 22° 7  | 25°10 | 16°49  | 15°56 | 3° 6  | n.a. |   |   |
| S 9  | 2 26 58 | 6°36'41  | 6♎55  | 16°16 | 19°47 | 27° 7  | 14°26 | 15°53  | 7°46  | 22° 6  | 25°11 | 16°48  | 15°53 | 3°13  | n.a. |   |   |
| S 10 | 2 30 55 | 7°37'58  | 19° 0 | 17°51 | 20°50 | 27°54  | 14°30 | 15°49  | 7°44  | 22° 4  | 25°12 | 16°44  | 15°50 | 3°20  | n.a. |   |   |
| M11  | 2 34 52 | 8°39'15  | 0♎57  | 19°26 | 21°53 | 28°41  | 14°35 | 15°45  | 7°42  | 22° 2  | 25°13 | 16°37  | 15°47 | 3°26  | n.a. |   |   |
| T 12 | 2 38 48 | 9°40'33  | 12°50 | 21° 1 | 22°57 | 29°28  | 14°39 | 15°40  | 7°40  | 22° 1  | 25°14 | 16°27  | 15°44 | 3°33  | n.a. |   |   |
| W13  | 2 42 45 | 10°41'51 | 24°41 | 22°35 | 24° 0 | 0♌15   | 14°44 | 15°36  | 7°37  | 21°59  | 25°15 | 16°14  | 15°41 | 3°40  | n.a. |   |   |
| T 14 | 2 46 41 | 11°43'10 | 6♍.33 | 24°10 | 25° 4 | 1° 2   | 14°48 | 15°32  | 7°35  | 21°58  | 25°16 | 15°59  | 15°37 | 3°47  | n.a. |   |   |
| F 15 | 2 50 38 | 12°44'29 | 18°26 | 25°45 | 26° 9 | 1°49   | 14°53 | 15°28  | 7°33  | 21°56  | 25°17 | 15°44  | 15°34 | 3°53  | n.a. |   |   |
| S 16 | 2 54 34 | 13°45'49 | 0♌22  | 27°19 | 27°14 | 2°36   | 14°58 | 15°24  | 7°31  | 21°54  | 25°18 | 15°29  | 15°31 | 4° 0  | n.a. |   |   |
| S 17 | 2 58 31 | 14°47'08 | 12°22 | 28°53 | 28°19 | 3°23   | 15° 4 | 15°20  | 7°28  | 21°53  | 25°19 | 15°16  | 15°28 | 4° 7  | n.a. |   |   |
| M18  | 3 2 27  | 15°48'27 | 24°27 | 0♌26  | 29°24 | 4°10   | 15° 9 | 15°16  | 7°26  | 21°51  | 25°19 | 15° 5  | 15°25 | 4°13  | n.a. |   |   |
| T 19 | 3 6 24  | 16°49'47 | 6♌40  | 1°59  | 0♎30  | 4°57   | 15°15 | 15°12  | 7°23  | 21°50  | 25°20 | 14°57  | 15°21 | 4°20  | n.a. |   |   |
| W20  | 3 10 21 | 17°51'06 | 19° 4 | 3°31  | 1°35  | 5°44   | 15°21 | 15° 8  | 7°21  | 21°48  | 25°21 | 14°53  | 15°18 | 4°27  | n.a. |   |   |
| T 21 | 3 14 17 | 18°52'25 | 1♌41  | 5° 3  | 2°42  | 6°31   | 15°27 | 15° 4  | 7°19  | 21°47  | 25°21 | 14°51  | 15°15 | 4°34  | n.a. |   |   |
| F 22 | 3 18 14 | 19°53'43 | 14°37 | 6°33  | 3°48  | 7°18   | 15°33 | 15° 1  | 7°16  | 21°45  | 25°22 | 14°50  | 15°12 | 4°40  | n.a. |   |   |
| S 23 | 3 22 10 | 20°55'02 | 27°54 | 8° 1  | 4°54  | 8° 5   | 15°39 | 14°57  | 7°14  | 21°44  | 25°23 | 14°50  | 15° 9 | 4°47  | n.a. |   |   |
| S 24 | 3 26 7  | 21°56'19 | 11♋36 | 9°28  | 6° 1  | 8°52   | 15°46 | 14°54  | 7°11  | 21°43  | 25°23 | 14°49  | 15° 6 | 4°54  | n.a. |   |   |
| M25  | 3 30 3  | 22°57'36 | 25°46 | 10°53 | 7° 8  | 9°40   | 15°52 | 14°50  | 7° 9  | 21°41  | 25°24 | 14°46  | 15° 2 | 5° 0  | n.a. |   |   |
| T 26 | 3 34 0  | 23°58'53 | 10♎22 | 12°16 | 8°16  | 10°27  | 15°59 | 14°47  | 7° 6  | 21°40  | 25°24 | 14°40  | 14°59 | 5° 7  | n.a. |   |   |
| W27  | 3 37 56 | 25° 0'09 | 25°21 | 13°35 | 9°23  | 11°14  | 16° 6 | 14°44  | 7° 4  | 21°38  | 25°25 | 14°32  | 14°56 | 5°14  | n.a. |   |   |
| T 28 | 3 41 53 | 26° 1'25 | 10♌34 | 14°52 | 10°31 | 12° 1  | 16°13 | 14°41  | 7° 1  | 21°37  | 25°25 | 14°21  | 14°53 | 5°21  | n.a. |   |   |
| F 29 | 3 45 50 | 27° 2'41 | 25°52 | 16° 4 | 11°38 | 12°48  | 16°21 | 14°38  | 6°59  | 21°36  | 25°25 | 14° 9  | 14°50 | 5°27  | n.a. |   |   |
| S 30 | 3 49 46 | 28♍ 3'56 | 11♎ 3 | 17♌11 | 12♎46 | 13♌36  | 16♏28 | 14°V35 | 6♎56  | 21°V34 | 25♎26 | 13♎58  | 14♌47 | 5♍.34 | n.a. |   |   |

Delta T = 08h31m35s Julian Calendar 1 Nov. 1241 BCE == Greg. Calendar 21 Oct. 1241 BCE  
 The year -1240 astronomical counting style corresponds to year 1241 B.C.E historical counting style.

DECEMBER 1241 BCE (-1240) JC

00:00 UT

| Day  | Sid.t   | ☉        | ☽     | ♀      | ♁     | ♂     | ♃     | ♄      | ♅     | ♆      | ♇      | ♈      | ♉     | ♊     | ♋    | ♌ | ♍ |
|------|---------|----------|-------|--------|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|------|---|---|
| S 1  | 3 53 43 | 29♍ 5'10 | 25♎56 | 18♌13  | 13♎55 | 14♌23 | 16♏36 | 14°R32 | 6°R54 | 21°R33 | 25♎26  | 13°R49 | 14♌43 | 5♍.41 | n.a. |   |   |
| M 2  | 3 57 39 | 0♌ 6'25  | 10♌24 | 19° 8  | 15° 3 | 15°10 | 16°44 | 14°V29 | 6♎51  | 21°V32 | 25°26  | 13♎43  | 14°40 | 5°48  | n.a. |   |   |
| T 3  | 4 1 36  | 1° 7'39  | 24°22 | 19°57  | 16°12 | 15°58 | 16°52 | 14°27  | 6°48  | 21°31  | 25°26  | 13°39  | 14°37 | 5°54  | n.a. |   |   |
| W 4  | 4 5 32  | 2° 8'53  | 7♎50  | 20°37  | 17°20 | 16°45 | 17° 0 | 14°24  | 6°46  | 21°29  | 25°27  | 13°D37 | 14°34 | 6° 1  | n.a. |   |   |
| T 5  | 4 9 29  | 3°10'07  | 20°50 | 21° 9  | 18°29 | 17°32 | 17° 8 | 14°22  | 6°43  | 21°28  | 25°27  | 13°37  | 14°31 | 6° 8  | n.a. |   |   |
| F 6  | 4 13 25 | 4°11'20  | 3♎27  | 21°30  | 19°38 | 18°19 | 17°16 | 14°19  | 6°41  | 21°27  | 25°27  | 13°R38 | 14°27 | 6°14  | n.a. |   |   |
| S 7  | 4 17 22 | 5°12'33  | 15°45 | 21°42  | 20°48 | 19° 7 | 17°25 | 14°17  | 6°38  | 21°26  | 25°27  | 13°37  | 14°24 | 6°21  | n.a. |   |   |
| S 8  | 4 21 19 | 6°13'45  | 27°49 | 21°R42 | 21°57 | 19°54 | 17°34 | 14°15  | 6°35  | 21°25  | 25°27  | 13°35  | 14°21 | 6°28  | n.a. |   |   |
| M 9  | 4 25 15 | 7°14'57  | 9♎44  | 21°30  | 23° 6 | 20°42 | 17°42 | 14°13  | 6°33  | 21°24  | 25°R27 | 13°30  | 14°18 | 6°35  | n.a. |   |   |
| T 10 | 4 29 12 | 8°16'08  | 21°35 | 21° 7  | 24°16 | 21°29 | 17°51 | 14°11  | 6°30  | 21°23  | 25°27  | 13°22  | 14°15 | 6°41  | n.a. |   |   |
| W11  | 4 33 8  | 9°17'19  | 3♍.25 | 20°32  | 25°26 | 22°16 | 18° 0 | 14° 9  | 6°27  | 21°22  | 25°27  | 13°12  | 14°12 | 6°48  | n.a. |   |   |
| T 12 | 4 37 5  | 10°18'29 | 15°17 | 19°46  | 26°36 | 23° 4 | 18°10 | 14° 8  | 6°25  | 21°21  | 25°27  | 13° 0  | 14° 8 | 6°55  | n.a. |   |   |
| F 13 | 4 41 1  | 11°19'38 | 27°14 | 18°51  | 27°46 | 23°51 | 18°19 | 14° 6  | 6°22  | 21°20  | 25°27  | 12°47  | 14° 5 | 7° 1  | n.a. |   |   |
| S 14 | 4 44 58 | 12°20'47 | 9♌17  | 17°48  | 28°56 | 24°38 | 18°28 | 14° 5  | 6°20  | 21°19  | 25°27  | 12°35  | 14° 2 | 7° 8  | n.a. |   |   |
| S 15 | 4 48 54 | 13°21'54 | 21°26 | 16°38  | 0♍ 6  | 25°26 | 18°38 | 14° 3  | 6°17  | 21°18  | 25°26  | 12°24  | 13°59 | 7°15  | n.a. |   |   |
| M16  | 4 52 51 | 14°23'01 | 3♌44  | 15°23  | 1°16  | 26°13 | 18°48 | 14° 2  | 6°14  | 21°17  | 25°26  | 12°15  | 13°56 | 7°22  | n.a. |   |   |
| T 17 | 4 56 48 | 15°24'07 | 16°10 | 14° 7  | 2°27  | 27° 1 | 18°58 | 14° 1  | 6°12  | 21°16  | 25°26  | 12° 9  | 13°53 | 7°28  | n.a. |   |   |
| W18  | 5 0 44  | 16°25'11 | 28°46 | 12°52  | 3°37  | 27°48 | 19° 8 | 14° 0  | 6° 9  | 21°15  | 25°26  | 12° 6  | 13°49 | 7°35  | n.a. |   |   |
| T 19 | 5 4 41  | 17°26'14 | 11♏34 | 11°38  | 4°48  | 28°35 | 19°18 | 13°59  | 6° 7  | 21°14  | 25°25  | 12°D 5 | 13°46 | 7°42  | n.a. |   |   |
| F 20 | 5 8 37  | 18°27'15 | 24°36 | 10°30  | 5°59  | 29°23 | 19°28 | 13°58  | 6° 4  | 21°14  | 25°25  | 12° 6  | 13°43 | 7°49  | n.a. |   |   |
| S 21 | 5 12 34 | 19°28'15 | 7♌54  | 9°27   | 7° 9  | 0♌10  | 19°38 | 13°58  | 6° 2  | 21°13  | 25°25  | 12° 7  | 13°40 | 7°55  | n.a. |   |   |
| S 22 | 5 16 30 | 20°29'14 | 21°32 | 8°31   | 8°20  | 0°58  | 19°49 | 13°57  | 5°59  | 21°12  | 25°24  | 12°R 7 | 13°37 | 8° 2  | n.a. |   |   |
| M23  | 5 20 27 | 21°30'11 | 5°V30 | 7°43   | 9°31  | 1°45  | 19°59 | 13°57  | 5°57  | 21°11  | 25°24  | 12° 6  | 13°33 | 8° 9  | n.a. |   |   |
| T 24 | 5 24 23 | 22°31'06 | 19°48 | 7° 4   | 10°42 | 2°32  | 20°10 | 13°56  | 5°54  | 21°11  | 25°23  | 12° 3  | 13°30 | 8°15  | n.a. |   |   |
| W25  | 5 28 20 | 23°32'00 | 4♌24  | 6°33   | 11°53 | 3°20  | 20°21 | 13°56  | 5°52  | 21°10  | 25°23  | 11°58  | 13°27 | 8°22  | n.a. |   |   |
| T 26 | 5 32 17 | 24°32'52 | 19°14 | 6°11   | 13° 4 | 4° 7  | 20°32 | 13°D56 | 5°49  | 21°10  | 25°22  | 11°51  | 13°24 | 8°29  | n.a. |   |   |
| F 27 | 5 36 13 | 25°33'43 | 4♎10  | 5°57   | 14°16 | 4°54  | 20°43 | 13°56  | 5°47  | 21° 9  | 25°21  | 11°44  | 13°21 | 8°36  | n.a. |   |   |
| S 28 | 5 40 10 | 26°34'33 | 19° 4 | 5°D51  | 15°27 | 5°42  | 20°54 | 13°56  | 5°45  | 21° 9  | 25°21  | 11°37  | 13°18 | 8°42  | n.a. |   |   |
| S 29 | 5 44 6  | 27°35'20 | 3♌47  | 5°53   | 16°38 | 6°29  | 21° 5 | 13°57  | 5°42  | 21° 8  | 25°20  | 11°30  | 13°14 | 8°49  | n.a. |   |   |
| M30  | 5 48 3  | 28°36'07 | 18°10 | 6° 2   | 17°50 | 7°16  | 21°16 | 13°57  | 5°40  | 21° 8  | 25°20  | 11°26  | 13°11 | 8°56  | n.a. |   |   |
| T 31 | 5 51 59 | 29♌36'52 | 2♎10  | 6♌18   | 19♍ 1 | 8♌ 4  | 21♏27 | 13°V58 | 5♎37  | 21°V 7 | 25♎19  | 11♎24  | 13♎ 8 | 9♍ 3  | n.a. |   |   |

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