Astrodienst Ephemeris Tables
for the year 2044

MIDPOINTS, Positions modulo 16, tropical zodiac
contains Sun, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Moon's Node

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code DSHE
<p>| Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Jan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dec | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th>Day</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>4</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>5</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
</tr>
</tbody>
</table>

**FEBRUARY 2044 MIDPOINTS 00:00 UT, Positions modulo 16**

**Day** | **01** | **02** | **03** | **04** | **05** | **06** | **07** | **08** | **09** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | **30** | **31** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>T</td>
<td>W</td>
<td>T</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Delta T = 76.32 sec.

Copyright Astrodienst AG [17.5.2018.]
| Day | M 28 | F 25 | W 18 | S 17 | T 17 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 6 | 5 | 4 | 3 | 2 | 1 |
|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1   | 2   | 3   | 4   | 5   | 6   | 7 | 8 | 9 | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22  | 23  | 24  | 25  | 26  | 27  | 28 | 29 | 30 | 31  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |

Delta T = 76.34 sec.
<table>
<thead>
<tr>
<th>Day</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
<th>27</th>
<th>28</th>
<th>29</th>
<th>30</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

**AVERAGE 2044**

**MIDPOINTS 00:00 UT, Positions modulo 16**

**April 2044**

---

*Copyright Astronodienst AG [17.5.2018]*

Page 5 of 13

DSHE 1.2044
### MAY 2044
#### MIDPOINTS 00:00 UT, Positions modulo 16

<table>
<thead>
<tr>
<th>Day</th>
<th>T</th>
<th>M</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>D</th>
<th>F</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9</td>
<td>15</td>
<td>21</td>
<td>27</td>
<td>33</td>
<td>39</td>
<td>45</td>
<td>51</td>
</tr>
<tr>
<td>2</td>
<td>12</td>
<td>18</td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>54</td>
</tr>
<tr>
<td>3</td>
<td>19</td>
<td>25</td>
<td>31</td>
<td>1</td>
<td>7</td>
<td>13</td>
<td>19</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>21</td>
<td>27</td>
<td>33</td>
<td>39</td>
<td>45</td>
<td>51</td>
<td>57</td>
<td>63</td>
</tr>
<tr>
<td>5</td>
<td>22</td>
<td>28</td>
<td>34</td>
<td>40</td>
<td>46</td>
<td>52</td>
<td>58</td>
<td>64</td>
</tr>
<tr>
<td>6</td>
<td>23</td>
<td>29</td>
<td>35</td>
<td>41</td>
<td>47</td>
<td>53</td>
<td>59</td>
<td>65</td>
</tr>
<tr>
<td>7</td>
<td>24</td>
<td>30</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>54</td>
<td>60</td>
<td>66</td>
</tr>
<tr>
<td>8</td>
<td>25</td>
<td>31</td>
<td>37</td>
<td>43</td>
<td>49</td>
<td>55</td>
<td>61</td>
<td>67</td>
</tr>
<tr>
<td>9</td>
<td>26</td>
<td>32</td>
<td>38</td>
<td>44</td>
<td>50</td>
<td>56</td>
<td>62</td>
<td>68</td>
</tr>
<tr>
<td>10</td>
<td>27</td>
<td>33</td>
<td>39</td>
<td>45</td>
<td>51</td>
<td>57</td>
<td>63</td>
<td>69</td>
</tr>
<tr>
<td>11</td>
<td>28</td>
<td>34</td>
<td>40</td>
<td>46</td>
<td>52</td>
<td>58</td>
<td>64</td>
<td>70</td>
</tr>
<tr>
<td>12</td>
<td>29</td>
<td>35</td>
<td>41</td>
<td>47</td>
<td>53</td>
<td>59</td>
<td>65</td>
<td>71</td>
</tr>
<tr>
<td>13</td>
<td>30</td>
<td>36</td>
<td>42</td>
<td>48</td>
<td>54</td>
<td>60</td>
<td>66</td>
<td>72</td>
</tr>
</tbody>
</table>

### DAY

- **S**: Saturday
- **M**: Monday
- **T**: Tuesday
- **W**: Wednesday
- **D**: Thursday
- **F**: Friday
- **E**: Sunday

**Day**

- **T**: True Position
- **M**: Mean Position
- **S**: Sidereal Position

**S 1**

- **S**: Saturday
- **M**: Monday
- **T**: Tuesday
- **W**: Wednesday
- **D**: Thursday
- **F**: Friday
- **E**: Sunday

- **Day**
- **S**: Saturday
- **M**: Monday
- **T**: Tuesday
- **W**: Wednesday
- **D**: Thursday
- **F**: Friday
- **E**: Sunday

### Copyright

Copyright Astronomid AG [17.5.2018]

page 6 of 13

DSEH 1.2044

Delta T = 76.38 sec.
| Day | 20  | 30 | 02 | 32 | 03 | 42 | 17 | 30 | 20 | 45 | 16 | 25 | 05 | 14 | 24 | 10 | 24 | 17 | 22 | 10 | 25 | 03 | 12 | 04 | 02 | 15 | 32 | 10 | 20 | 30 | 20 | 45 | 16 | 25 | 05 | 14 | 24 |
|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| W   | 1   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| T   | 1   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| F   | 1   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| S   | 1   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 17   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 18   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 19   | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 20   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

Delta T = 76.40 sec.

Copyright Astrodienst AG [17.5.2018]

page 7 of 13

DSE 1.2044
### JULY 2044

#### MIDPOINTS 00:00 UT, Positions modulo 16

<table>
<thead>
<tr>
<th>Day</th>
<th>H</th>
<th>Q</th>
<th>Y</th>
<th>Y'</th>
<th>T</th>
<th>T'</th>
<th>F</th>
<th>F'</th>
<th>S</th>
<th>S'</th>
<th>M</th>
<th>M'</th>
<th>W</th>
<th>W'</th>
<th>T</th>
<th>T'</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>1</td>
<td>20</td>
<td>16</td>
<td>13</td>
<td>16</td>
<td>6</td>
<td>21</td>
<td>22</td>
<td>20</td>
<td>9</td>
<td>28</td>
<td>7</td>
<td>21</td>
<td>4</td>
<td>33</td>
<td>13</td>
<td>41</td>
</tr>
<tr>
<td>S</td>
<td>2</td>
<td>21</td>
<td>33</td>
<td>13</td>
<td>58</td>
<td>7</td>
<td>4</td>
<td>9</td>
<td>56</td>
<td>5</td>
<td>2</td>
<td>14</td>
<td>9</td>
<td>20</td>
<td>4</td>
<td>2</td>
<td>14</td>
</tr>
<tr>
<td>S'</td>
<td>3</td>
<td>0</td>
<td>19</td>
<td>14</td>
<td>40</td>
<td>7</td>
<td>4</td>
<td>0</td>
<td>41</td>
<td>10</td>
<td>23</td>
<td>8</td>
<td>22</td>
<td>5</td>
<td>31</td>
<td>14</td>
<td>38</td>
</tr>
<tr>
<td>M</td>
<td>4</td>
<td>25</td>
<td>31</td>
<td>16</td>
<td>58</td>
<td>6</td>
<td>2</td>
<td>18</td>
<td>56</td>
<td>5</td>
<td>2</td>
<td>14</td>
<td>9</td>
<td>20</td>
<td>4</td>
<td>2</td>
<td>14</td>
</tr>
<tr>
<td>T</td>
<td>5</td>
<td>2</td>
<td>47</td>
<td>16</td>
<td>9</td>
<td>16</td>
<td>3</td>
<td>12</td>
<td>18</td>
<td>5</td>
<td>2</td>
<td>14</td>
<td>9</td>
<td>20</td>
<td>4</td>
<td>2</td>
<td>14</td>
</tr>
<tr>
<td>W</td>
<td>6</td>
<td>4</td>
<td>0</td>
<td>16</td>
<td>52</td>
<td>10</td>
<td>1</td>
<td>57</td>
<td>11</td>
<td>46</td>
<td>5</td>
<td>26</td>
<td>6</td>
<td>2</td>
<td>16</td>
<td>21</td>
<td>54</td>
</tr>
<tr>
<td>T'</td>
<td>7</td>
<td>5</td>
<td>17</td>
<td>16</td>
<td>37</td>
<td>10</td>
<td>44</td>
<td>12</td>
<td>13</td>
<td>22</td>
<td>10</td>
<td>28</td>
<td>22</td>
<td>16</td>
<td>20</td>
<td>17</td>
<td>15</td>
</tr>
<tr>
<td>S</td>
<td>8</td>
<td>6</td>
<td>21</td>
<td>18</td>
<td>23</td>
<td>11</td>
<td>26</td>
<td>24</td>
<td>12</td>
<td>41</td>
<td>10</td>
<td>53</td>
<td>7</td>
<td>58</td>
<td>16</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>S'</td>
<td>9</td>
<td>7</td>
<td>30</td>
<td>19</td>
<td>9</td>
<td>13</td>
<td>12</td>
<td>13</td>
<td>27</td>
<td>8</td>
<td>23</td>
<td>5</td>
<td>16</td>
<td>2</td>
<td>14</td>
<td>16</td>
<td>45</td>
</tr>
<tr>
<td>M</td>
<td>10</td>
<td>8</td>
<td>38</td>
<td>19</td>
<td>56</td>
<td>12</td>
<td>57</td>
<td>3</td>
<td>37</td>
<td>13</td>
<td>37</td>
<td>11</td>
<td>53</td>
<td>8</td>
<td>56</td>
<td>17</td>
<td>55</td>
</tr>
<tr>
<td>M'</td>
<td>11</td>
<td>9</td>
<td>44</td>
<td>20</td>
<td>44</td>
<td>12</td>
<td>14</td>
<td>13</td>
<td>24</td>
<td>9</td>
<td>25</td>
<td>18</td>
<td>23</td>
<td>1</td>
<td>7</td>
<td>11</td>
<td>4</td>
</tr>
<tr>
<td>W</td>
<td>12</td>
<td>10</td>
<td>50</td>
<td>21</td>
<td>32</td>
<td>14</td>
<td>26</td>
<td>27</td>
<td>14</td>
<td>32</td>
<td>12</td>
<td>54</td>
<td>9</td>
<td>54</td>
<td>18</td>
<td>51</td>
<td>2</td>
</tr>
<tr>
<td>T'</td>
<td>13</td>
<td>11</td>
<td>56</td>
<td>22</td>
<td>40</td>
<td>15</td>
<td>56</td>
<td>17</td>
<td>15</td>
<td>28</td>
<td>13</td>
<td>54</td>
<td>10</td>
<td>53</td>
<td>49</td>
<td>58</td>
<td>3</td>
</tr>
<tr>
<td>S</td>
<td>14</td>
<td>12</td>
<td>62</td>
<td>23</td>
<td>46</td>
<td>16</td>
<td>56</td>
<td>17</td>
<td>15</td>
<td>28</td>
<td>14</td>
<td>55</td>
<td>10</td>
<td>52</td>
<td>49</td>
<td>58</td>
<td>6</td>
</tr>
<tr>
<td>S'</td>
<td>15</td>
<td>13</td>
<td>68</td>
<td>24</td>
<td>52</td>
<td>17</td>
<td>66</td>
<td>16</td>
<td>62</td>
<td>24</td>
<td>15</td>
<td>11</td>
<td>51</td>
<td>20</td>
<td>44</td>
<td>3</td>
<td>52</td>
</tr>
<tr>
<td>M</td>
<td>16</td>
<td>14</td>
<td>74</td>
<td>25</td>
<td>58</td>
<td>18</td>
<td>66</td>
<td>17</td>
<td>16</td>
<td>24</td>
<td>16</td>
<td>55</td>
<td>10</td>
<td>50</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>M'</td>
<td>17</td>
<td>15</td>
<td>80</td>
<td>26</td>
<td>64</td>
<td>19</td>
<td>71</td>
<td>17</td>
<td>16</td>
<td>24</td>
<td>17</td>
<td>55</td>
<td>10</td>
<td>49</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>W</td>
<td>18</td>
<td>16</td>
<td>86</td>
<td>27</td>
<td>70</td>
<td>20</td>
<td>76</td>
<td>18</td>
<td>17</td>
<td>25</td>
<td>18</td>
<td>55</td>
<td>10</td>
<td>49</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>T'</td>
<td>19</td>
<td>17</td>
<td>92</td>
<td>28</td>
<td>76</td>
<td>21</td>
<td>86</td>
<td>18</td>
<td>17</td>
<td>25</td>
<td>19</td>
<td>55</td>
<td>10</td>
<td>49</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>S</td>
<td>20</td>
<td>18</td>
<td>98</td>
<td>29</td>
<td>82</td>
<td>22</td>
<td>92</td>
<td>20</td>
<td>18</td>
<td>26</td>
<td>20</td>
<td>55</td>
<td>10</td>
<td>49</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>S'</td>
<td>21</td>
<td>19</td>
<td>104</td>
<td>30</td>
<td>88</td>
<td>23</td>
<td>98</td>
<td>21</td>
<td>19</td>
<td>26</td>
<td>21</td>
<td>55</td>
<td>10</td>
<td>49</td>
<td>49</td>
<td>58</td>
<td>10</td>
</tr>
</tbody>
</table>

Delta T = 76.42 sec.
### AUGUST 2044

#### MIDPOINTS 00:00 UT, Positions modulo 16

<table>
<thead>
<tr>
<th>Day</th>
<th>(\Delta t)</th>
<th>(\Delta N)</th>
<th>(\Delta A)</th>
<th>(\Delta R)</th>
<th>(\Delta Q)</th>
<th>(\Delta J)</th>
<th>(\Delta S)</th>
<th>(\Delta T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 1</td>
<td>4 23</td>
<td>16 38</td>
<td>7 7</td>
<td>12 44</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>T 2</td>
<td>4 19</td>
<td>34 17</td>
<td>7 7</td>
<td>15 14</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>W 3</td>
<td>5 12</td>
<td>18 31</td>
<td>8 40</td>
<td>13 34</td>
<td>2 29</td>
<td>1 33</td>
<td>20 34</td>
<td>6 40</td>
</tr>
<tr>
<td>T 4</td>
<td>5 19</td>
<td>24 17</td>
<td>7 7</td>
<td>15 14</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>F 5</td>
<td>5 30</td>
<td>20 25</td>
<td>10 13</td>
<td>14 24</td>
<td>3 26</td>
<td>2 34</td>
<td>21 32</td>
<td>7 36</td>
</tr>
<tr>
<td>S 6</td>
<td>6 6</td>
<td>21 22</td>
<td>11 49</td>
<td>3 55</td>
<td>5 22</td>
<td>1 8</td>
<td>4 13</td>
<td>21 17</td>
</tr>
<tr>
<td>S 7</td>
<td>6 19</td>
<td>22 19</td>
<td>11 46</td>
<td>15 14</td>
<td>4 25</td>
<td>3 35</td>
<td>22 30</td>
<td>8 33</td>
</tr>
<tr>
<td>M 8</td>
<td>7 30</td>
<td>4 12</td>
<td>12 33</td>
<td>15 35</td>
<td>5 44</td>
<td>4 15</td>
<td>6 10</td>
<td>17 56</td>
</tr>
<tr>
<td>T 9</td>
<td>7 39</td>
<td>1 41</td>
<td>15 46</td>
<td>16 24</td>
<td>5 23</td>
<td>3 47</td>
<td>6 9</td>
<td>19 43</td>
</tr>
<tr>
<td>W 10</td>
<td>4 46</td>
<td>2 3 4</td>
<td>17 69</td>
<td>5 53</td>
<td>5 22</td>
<td>1 8</td>
<td>4 13</td>
<td>21 17</td>
</tr>
<tr>
<td>T 11</td>
<td>5 11</td>
<td>24 17</td>
<td>7 7</td>
<td>15 14</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>F 12</td>
<td>5 30</td>
<td>20 25</td>
<td>10 13</td>
<td>14 24</td>
<td>3 26</td>
<td>2 34</td>
<td>21 32</td>
<td>7 36</td>
</tr>
<tr>
<td>S 13</td>
<td>7 1</td>
<td>5 39</td>
<td>16 28</td>
<td>17 45</td>
<td>6 39</td>
<td>5 23</td>
<td>2 11</td>
<td>6 13</td>
</tr>
<tr>
<td>S 14</td>
<td>7 5</td>
<td>6 37</td>
<td>18 11</td>
<td>17 51</td>
<td>7 10</td>
<td>3 22</td>
<td>11 20</td>
<td>16 59</td>
</tr>
<tr>
<td>M 15</td>
<td>7 9</td>
<td>7 37</td>
<td>18 3 9</td>
<td>18 60</td>
<td>8 10</td>
<td>6 6</td>
<td>17 28</td>
<td>23 52</td>
</tr>
<tr>
<td>T 16</td>
<td>8 14</td>
<td>3 8</td>
<td>18 50</td>
<td>19 2 9</td>
<td>8 51</td>
<td>4 19</td>
<td>12 46</td>
<td>17 53</td>
</tr>
<tr>
<td>W 17</td>
<td>9 30</td>
<td>19 38</td>
<td>27 9 20</td>
<td>8 42</td>
<td>4 48</td>
<td>13 14</td>
<td>18 20</td>
<td>7 11</td>
</tr>
<tr>
<td>T 18</td>
<td>9 29</td>
<td>10 35</td>
<td>20 25</td>
<td>19 53</td>
<td>9 50</td>
<td>5 13</td>
<td>17 43</td>
<td>18 48</td>
</tr>
<tr>
<td>F 19</td>
<td>9 39</td>
<td>11 35</td>
<td>21 13</td>
<td>20 19</td>
<td>10 20</td>
<td>9 43</td>
<td>5 46</td>
<td>14 11</td>
</tr>
<tr>
<td>S 20</td>
<td>10 32</td>
<td>1 22</td>
<td>1 20 55</td>
<td>1 20 45</td>
<td>1 04</td>
<td>16 15</td>
<td>14 39</td>
<td>12 49</td>
</tr>
<tr>
<td>S 21</td>
<td>1 8</td>
<td>13 55</td>
<td>0 19</td>
<td>1 21 11</td>
<td>1 20</td>
<td>0 45</td>
<td>6 44</td>
<td>15 7 20</td>
</tr>
<tr>
<td>M 22</td>
<td>1 27</td>
<td>24 15</td>
<td>6 31</td>
<td>13 59</td>
<td>1 06</td>
<td>2 13</td>
<td>15 38</td>
<td>7 28</td>
</tr>
<tr>
<td>T 23</td>
<td>1 49</td>
<td>25 17</td>
<td>7 7</td>
<td>15 14</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>W 24</td>
<td>2 3 4</td>
<td>17 69</td>
<td>5 53</td>
<td>5 22</td>
<td>1 8</td>
<td>4 13</td>
<td>21 17</td>
<td></td>
</tr>
<tr>
<td>T 25</td>
<td>2 11</td>
<td>24 17</td>
<td>7 7</td>
<td>15 14</td>
<td>1 30</td>
<td>0 32</td>
<td>19 36</td>
<td>5 44</td>
</tr>
<tr>
<td>F 26</td>
<td>2 30</td>
<td>20 25</td>
<td>10 13</td>
<td>14 24</td>
<td>3 26</td>
<td>2 34</td>
<td>21 32</td>
<td>7 36</td>
</tr>
<tr>
<td>S 27</td>
<td>3 10</td>
<td>5 39</td>
<td>16 28</td>
<td>17 45</td>
<td>6 39</td>
<td>5 23</td>
<td>2 11</td>
<td>6 13</td>
</tr>
<tr>
<td>S 28</td>
<td>3 41</td>
<td>20 40</td>
<td>5 55</td>
<td>1 45 14 2</td>
<td>14 20</td>
<td>10 25</td>
<td>18 25</td>
<td>0 51</td>
</tr>
<tr>
<td>M 29</td>
<td>12 27</td>
<td>21 41</td>
<td>6 43</td>
<td>2 12 15 22</td>
<td>14 51</td>
<td>10 34</td>
<td>18 53</td>
<td>1 18</td>
</tr>
<tr>
<td>W 30</td>
<td>12 22</td>
<td>21 41</td>
<td>14 19</td>
<td>15 19 4 34</td>
<td>3 46</td>
<td>0 9</td>
<td>8 41</td>
<td>13 56</td>
</tr>
<tr>
<td>T 31</td>
<td>12 14</td>
<td>14 11</td>
<td>8 20</td>
<td>3 5 16 23</td>
<td>15 53</td>
<td>11 32 19 50</td>
<td>2 13</td>
<td>14 40 21</td>
</tr>
</tbody>
</table>

**Delta T = 76.44 sec.**

Copyright Astrodienst AG [17.5.2018]

DHE 1.2044
### SEPTEMBER 2044

**MIDPOINTS 00:00 UT, Positions modulo 16**

<table>
<thead>
<tr>
<th>Day</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>1 15 10</td>
</tr>
<tr>
<td>S</td>
<td>3 17 14</td>
</tr>
<tr>
<td>F</td>
<td>2 16 19</td>
</tr>
<tr>
<td>W</td>
<td>14 19 21</td>
</tr>
<tr>
<td>T</td>
<td>22 16 21</td>
</tr>
<tr>
<td>S</td>
<td>17 21 10</td>
</tr>
<tr>
<td>F</td>
<td>12 16 21</td>
</tr>
<tr>
<td>W</td>
<td>14 21 14</td>
</tr>
<tr>
<td>T</td>
<td>19 21 13</td>
</tr>
<tr>
<td>S</td>
<td>17 13 18</td>
</tr>
<tr>
<td>F</td>
<td>13 18 17</td>
</tr>
<tr>
<td>W</td>
<td>17 17 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
<tr>
<td>F</td>
<td>15 15 15</td>
</tr>
<tr>
<td>W</td>
<td>15 15 15</td>
</tr>
<tr>
<td>T</td>
<td>15 15 15</td>
</tr>
<tr>
<td>S</td>
<td>15 15 15</td>
</tr>
</tbody>
</table>

**Day**

<table>
<thead>
<tr>
<th>1</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>S</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>F</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>W</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>T</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>S</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>F</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>W</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>T</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>S</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>F</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>T</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>S</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td>F</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

Delta T = 76.46 sec.

Copyright Astrodienst AG [17.5.2018]

page 10 of 13

DSHE 1.2044
<table>
<thead>
<tr>
<th>Day</th>
<th>S</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>55</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
</tr>
<tr>
<td>3</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>5</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>7</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>8</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>10</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>12</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td>1</td>
</tr>
</tbody>
</table>

Delta T = 76.48 sec.

Copyright Astrodienst AG [17.5.2018]
| Day  | 00  | 01  | 02  | 03  | 04  | 05  | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1    | 2   | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  |
| 2    | 17  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  |
| 3    | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   |
| 4    | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  |
| 5    | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  | 5   | 12  | 19  | 24  | 31  | 6   | 23  |

Delta T = 76.52 sec.

Copyright Astrodienst AG [17.5.2018]

page 13 of 13

DHE 1.2044