<table>
<thead>
<tr>
<th>Jan</th>
<th>Fevereiro</th>
<th>Março</th>
<th>Abril</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORA ALT (m)</td>
<td>HORA ALT (m)</td>
<td>HORA ALT (m)</td>
<td>HORA ALT (m)</td>
</tr>
<tr>
<td>01</td>
<td>0749 0.5</td>
<td>17</td>
<td>0043 1.2</td>
</tr>
<tr>
<td>1839 0.5</td>
<td>17</td>
<td>0053 1.2</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>0011 1.1</td>
<td>18</td>
<td>0124 1.4</td>
</tr>
<tr>
<td>1304 1.2</td>
<td>18</td>
<td>1258 1.5</td>
<td></td>
</tr>
<tr>
<td>1839 0.4</td>
<td>18</td>
<td>2034 0.3</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>0056 1.2</td>
<td>19</td>
<td>0208 1.5</td>
</tr>
<tr>
<td>0858 0.5</td>
<td>19</td>
<td>0854 1.4</td>
<td></td>
</tr>
<tr>
<td>1351 1.3</td>
<td>19</td>
<td>1353 1.3</td>
<td></td>
</tr>
<tr>
<td>1921 0.2</td>
<td>19</td>
<td>2117 0.2</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>0136 1.3</td>
<td>20</td>
<td>0253 1.6</td>
</tr>
<tr>
<td>0917 0.5</td>
<td>20</td>
<td>0947 0.3</td>
<td></td>
</tr>
<tr>
<td>1428 1.3</td>
<td>20</td>
<td>1445 1.4</td>
<td></td>
</tr>
<tr>
<td>2002 0.1</td>
<td>20</td>
<td>2202 0.1</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>0213 1.4</td>
<td>21</td>
<td>0339 1.6</td>
</tr>
<tr>
<td>0734 0.5</td>
<td>21</td>
<td>1034 0.4</td>
<td></td>
</tr>
<tr>
<td>1558 0.5</td>
<td>21</td>
<td>1534 1.3</td>
<td></td>
</tr>
<tr>
<td>2043 0.1</td>
<td>21</td>
<td>2253 0.1</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>0256 1.5</td>
<td>22</td>
<td>0421 1.6</td>
</tr>
<tr>
<td>0806 0.5</td>
<td>22</td>
<td>1108 0.5</td>
<td></td>
</tr>
<tr>
<td>1551 0.5</td>
<td>22</td>
<td>1619 1.4</td>
<td></td>
</tr>
<tr>
<td>2123 0.0</td>
<td>22</td>
<td>2343 0.1</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>0339 1.5</td>
<td>23</td>
<td>0506 1.6</td>
</tr>
<tr>
<td>0834 0.5</td>
<td>23</td>
<td>0945 0.6</td>
<td></td>
</tr>
<tr>
<td>1628 1.3</td>
<td>23</td>
<td>1704 1.3</td>
<td></td>
</tr>
<tr>
<td>2200 0.0</td>
<td>23</td>
<td>2300 0.0</td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>0417 1.5</td>
<td>24</td>
<td>0036 0.2</td>
</tr>
<tr>
<td>0904 0.4</td>
<td>24</td>
<td>0554 1.5</td>
<td></td>
</tr>
<tr>
<td>1706 1.3</td>
<td>24</td>
<td>1002 0.5</td>
<td></td>
</tr>
<tr>
<td>2236 0.1</td>
<td>24</td>
<td>1753 1.4</td>
<td></td>
</tr>
<tr>
<td>2241 0.9</td>
<td>24</td>
<td>2241 0.9</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>0458 1.5</td>
<td>25</td>
<td>0050 1.6</td>
</tr>
<tr>
<td>0936 0.4</td>
<td>25</td>
<td>0638 1.3</td>
<td></td>
</tr>
<tr>
<td>1749 1.2</td>
<td>25</td>
<td>1032 0.5</td>
<td></td>
</tr>
<tr>
<td>2313 0.1</td>
<td>25</td>
<td>2558 0.5</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>0538 1.5</td>
<td>26</td>
<td>0117 0.6</td>
</tr>
<tr>
<td>0938 0.4</td>
<td>26</td>
<td>0719 1.3</td>
<td></td>
</tr>
<tr>
<td>1826 1.1</td>
<td>26</td>
<td>1198 0.5</td>
<td></td>
</tr>
<tr>
<td>2356 0.2</td>
<td>26</td>
<td>1527 0.9</td>
<td></td>
</tr>
<tr>
<td>1636 0.9</td>
<td>26</td>
<td>1919 1.1</td>
<td></td>
</tr>
<tr>
<td>2521 0.6</td>
<td>26</td>
<td>2521 0.6</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>0611 1.1</td>
<td>27</td>
<td>0213 1.7</td>
</tr>
<tr>
<td>1038 0.4</td>
<td>27</td>
<td>0436 0.6</td>
<td></td>
</tr>
<tr>
<td>1508 1.0</td>
<td>27</td>
<td>1156 0.5</td>
<td></td>
</tr>
<tr>
<td>1700 1.0</td>
<td>27</td>
<td>1660 0.9</td>
<td></td>
</tr>
<tr>
<td>1908 1.0</td>
<td>27</td>
<td>2008 1.0</td>
<td></td>
</tr>
<tr>
<td>2535 0.7</td>
<td>27</td>
<td>2535 0.7</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>0553 0.3</td>
<td>28</td>
<td>0352 0.8</td>
</tr>
<tr>
<td>0865 1.3</td>
<td>28</td>
<td>0556 1.7</td>
<td></td>
</tr>
<tr>
<td>1110 0.5</td>
<td>28</td>
<td>1303 0.4</td>
<td></td>
</tr>
<tr>
<td>1793 1.0</td>
<td>28</td>
<td>2117 0.0</td>
<td></td>
</tr>
<tr>
<td>2115 0.9</td>
<td>28</td>
<td>2115 0.9</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>0504 0.4</td>
<td>29</td>
<td>0307 0.9</td>
</tr>
<tr>
<td>0928 1.2</td>
<td>29</td>
<td>0733 1.4</td>
<td></td>
</tr>
<tr>
<td>1551 1.0</td>
<td>29</td>
<td>2356 1.0</td>
<td></td>
</tr>
<tr>
<td>1659 0.6</td>
<td>29</td>
<td>2356 1.0</td>
<td></td>
</tr>
<tr>
<td>1758 0.6</td>
<td>29</td>
<td>2356 1.0</td>
<td></td>
</tr>
<tr>
<td>1902 0.1</td>
<td>29</td>
<td>2356 1.0</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>0319 0.4</td>
<td>30</td>
<td>0206 0.8</td>
</tr>
<tr>
<td>0836 1.3</td>
<td>30</td>
<td>1075 0.1</td>
<td></td>
</tr>
<tr>
<td>1626 0.8</td>
<td>30</td>
<td>1152 0.7</td>
<td></td>
</tr>
<tr>
<td>1858 0.6</td>
<td>30</td>
<td>1928 0.4</td>
<td></td>
</tr>
<tr>
<td>2391 1.1</td>
<td>30</td>
<td>2391 1.1</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>0432 0.4</td>
<td>31</td>
<td>0819 0.6</td>
</tr>
<tr>
<td>1045 0.1</td>
<td>31</td>
<td>1249 1.1</td>
<td></td>
</tr>
<tr>
<td>1345 0.7</td>
<td>31</td>
<td>1828 0.4</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>0543 0.4</td>
<td>31</td>
<td>0819 0.6</td>
</tr>
<tr>
<td>1045 0.1</td>
<td>31</td>
<td>1828 0.4</td>
<td></td>
</tr>
</tbody>
</table>

**Nota:** Os dados são extraídos de um documento fornecido por APPA, que contém informações sobre a altura do mar e a diferença de altura em diferentes datas e horários do mês.
<table>
<thead>
<tr>
<th></th>
<th>Maio</th>
<th>Junho</th>
<th>Julho</th>
<th>Agosto</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>QUA 0038 1.3</td>
<td>SEG 0102 1.7</td>
<td>SAB 0118 1.4</td>
<td>QUI 0130 1.6</td>
</tr>
<tr>
<td>02</td>
<td>QUA 0119 1.4</td>
<td>SEG 0120 1.6</td>
<td>SAB 0125 1.5</td>
<td>QUI 0136 1.7</td>
</tr>
<tr>
<td>03</td>
<td>QUA 0156 1.5</td>
<td>SEG 0130 1.6</td>
<td>SAB 0140 1.5</td>
<td>QUI 0152 1.7</td>
</tr>
<tr>
<td>04</td>
<td>QUA 0232 1.5</td>
<td>SEG 0145 1.6</td>
<td>SAB 0151 1.5</td>
<td>QUI 0162 1.7</td>
</tr>
<tr>
<td>05</td>
<td>QUA 0306 1.5</td>
<td>SEG 0152 1.5</td>
<td>SAB 0162 1.5</td>
<td>QUI 0173 1.7</td>
</tr>
<tr>
<td>06</td>
<td>QUA 0341 1.5</td>
<td>SEG 0165 1.5</td>
<td>SAB 0175 1.5</td>
<td>QUI 0186 1.7</td>
</tr>
<tr>
<td>07</td>
<td>QUA 0415 1.5</td>
<td>SEG 0178 1.5</td>
<td>SAB 0187 1.5</td>
<td>QUI 0198 1.7</td>
</tr>
<tr>
<td>08</td>
<td>QUA 0453 1.5</td>
<td>SEG 0191 1.5</td>
<td>SAB 0201 1.5</td>
<td>QUI 0212 1.7</td>
</tr>
<tr>
<td>09</td>
<td>QUA 0539 1.5</td>
<td>SEG 0205 1.5</td>
<td>SAB 0215 1.5</td>
<td>QUI 0226 1.7</td>
</tr>
<tr>
<td>10</td>
<td>QUA 0582 1.5</td>
<td>SEG 0219 1.5</td>
<td>SAB 0230 1.5</td>
<td>QUI 0241 1.7</td>
</tr>
<tr>
<td>11</td>
<td>QUA 0654 1.5</td>
<td>SEG 0234 1.5</td>
<td>SAB 0245 1.5</td>
<td>QUI 0256 1.7</td>
</tr>
<tr>
<td>12</td>
<td>QUA 0718 1.5</td>
<td>SEG 0248 1.5</td>
<td>SAB 0259 1.5</td>
<td>QUI 0270 1.7</td>
</tr>
<tr>
<td>13</td>
<td>QUA 0772 1.5</td>
<td>SEG 0262 1.5</td>
<td>SAB 0274 1.5</td>
<td>QUI 0285 1.7</td>
</tr>
<tr>
<td>14</td>
<td>QUA 0828 1.5</td>
<td>SEG 0276 1.5</td>
<td>SAB 0287 1.5</td>
<td>QUI 0298 1.7</td>
</tr>
<tr>
<td>15</td>
<td>QUA 0882 1.5</td>
<td>SEG 0290 1.5</td>
<td>SAB 0301 1.5</td>
<td>QUI 0312 1.7</td>
</tr>
<tr>
<td>16</td>
<td>QUA 0936 1.5</td>
<td>SEG 0304 1.5</td>
<td>SAB 0315 1.5</td>
<td>QUI 0326 1.7</td>
</tr>
<tr>
<td>01</td>
<td>QUA 0033 0.1</td>
<td>SEG 0047 0.9</td>
<td>SAB 0061 0.7</td>
<td>QUI 0075 0.5</td>
</tr>
<tr>
<td>02</td>
<td>QUA 0090 0.1</td>
<td>SEG 0104 0.9</td>
<td>SAB 0118 0.7</td>
<td>QUI 0132 0.5</td>
</tr>
<tr>
<td>03</td>
<td>QUA 0147 0.1</td>
<td>SEG 0161 0.9</td>
<td>SAB 0175 0.7</td>
<td>QUI 0189 0.5</td>
</tr>
<tr>
<td>04</td>
<td>QUA 0204 0.1</td>
<td>SEG 0218 0.9</td>
<td>SAB 0232 0.7</td>
<td>QUI 0246 0.5</td>
</tr>
<tr>
<td>05</td>
<td>QUA 0261 0.1</td>
<td>SEG 0275 0.9</td>
<td>SAB 0289 0.7</td>
<td>QUI 0303 0.5</td>
</tr>
<tr>
<td>06</td>
<td>QUA 0318 0.1</td>
<td>SEG 0332 0.9</td>
<td>SAB 0346 0.7</td>
<td>QUI 0360 0.5</td>
</tr>
<tr>
<td>07</td>
<td>QUA 0375 0.1</td>
<td>SEG 0389 0.9</td>
<td>SAB 0403 0.7</td>
<td>QUI 0417 0.5</td>
</tr>
<tr>
<td>08</td>
<td>QUA 0432 0.1</td>
<td>SEG 0446 0.9</td>
<td>SAB 0460 0.7</td>
<td>QUI 0474 0.5</td>
</tr>
<tr>
<td>09</td>
<td>QUA 0489 0.1</td>
<td>SEG 0503 0.9</td>
<td>SAB 0517 0.7</td>
<td>QUI 0531 0.5</td>
</tr>
<tr>
<td>10</td>
<td>QUA 0546 0.1</td>
<td>SEG 0560 0.9</td>
<td>SAB 0574 0.7</td>
<td>QUI 0588 0.5</td>
</tr>
<tr>
<td>11</td>
<td>QUA 0603 0.1</td>
<td>SEG 0617 0.9</td>
<td>SAB 0631 0.7</td>
<td>QUI 0645 0.5</td>
</tr>
<tr>
<td>12</td>
<td>QUA 0660 0.1</td>
<td>SEG 0674 0.9</td>
<td>SAB 0688 0.7</td>
<td>QUI 0702 0.5</td>
</tr>
<tr>
<td>13</td>
<td>QUA 0717 0.1</td>
<td>SEG 0731 0.9</td>
<td>SAB 0745 0.7</td>
<td>QUI 0759 0.5</td>
</tr>
<tr>
<td>14</td>
<td>QUA 0774 0.1</td>
<td>SEG 0788 0.9</td>
<td>SAB 0802 0.7</td>
<td>QUI 0816 0.5</td>
</tr>
<tr>
<td>15</td>
<td>QUA 0831 0.1</td>
<td>SEG 0845 0.9</td>
<td>SAB 0859 0.7</td>
<td>QUI 0873 0.5</td>
</tr>
<tr>
<td>16</td>
<td>QUA 0888 0.1</td>
<td>SEG 0902 0.9</td>
<td>SAB 0916 0.7</td>
<td>QUI 0930 0.5</td>
</tr>
</tbody>
</table>

**Notas:**
- **HORA ALT (m):** Horas de altura do sol.
- **SEG:** Segundo.
- **DOM:** Domingo.
- **QUI:** Quiabo.
- **SAB:** Sábado.
- **SUN:** Domingo.
<table>
<thead>
<tr>
<th>Setembro</th>
<th>Outubro</th>
<th>Novembro</th>
<th>Dezembro</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HORA ALT (m)</td>
<td>HORA ALT (m)</td>
<td>HORA ALT (m)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>0424.5</td>
<td>0508.1</td>
<td>0624.1</td>
</tr>
<tr>
<td>SEG</td>
<td>0928.5</td>
<td>1002.4</td>
<td>1121.0</td>
</tr>
<tr>
<td></td>
<td>1058.0</td>
<td>1132.0</td>
<td>1251.4</td>
</tr>
<tr>
<td>DOM</td>
<td>1452.4</td>
<td>1526.4</td>
<td>1645.5</td>
</tr>
<tr>
<td></td>
<td>1426.0</td>
<td>1500.2</td>
<td>1619.0</td>
</tr>
<tr>
<td></td>
<td>0954.4</td>
<td>1028.5</td>
<td>1147.1</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2208.3</td>
<td>2325.1</td>
</tr>
<tr>
<td></td>
<td>1711.3</td>
<td>1751.0</td>
<td>1821.0</td>
</tr>
<tr>
<td></td>
<td>1626.0</td>
<td>1658.1</td>
<td>1752.0</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2217.0</td>
<td>2251.0</td>
</tr>
<tr>
<td></td>
<td>1256.6</td>
<td>1315.0</td>
<td>1381.9</td>
</tr>
<tr>
<td></td>
<td>1751.3</td>
<td>1821.0</td>
<td>1917.0</td>
</tr>
<tr>
<td></td>
<td>2217.0</td>
<td>2251.0</td>
<td>2325.0</td>
</tr>
<tr>
<td></td>
<td>1256.6</td>
<td>1315.0</td>
<td>1381.9</td>
</tr>
<tr>
<td></td>
<td>2217.0</td>
<td>2251.0</td>
<td>2325.0</td>
</tr>
<tr>
<td></td>
<td>1751.3</td>
<td>1821.0</td>
<td>1917.0</td>
</tr>
<tr>
<td></td>
<td>2251.0</td>
<td>2325.0</td>
<td>2100.0</td>
</tr>
<tr>
<td></td>
<td>0424.5</td>
<td>0508.1</td>
<td>0624.1</td>
</tr>
<tr>
<td></td>
<td>0928.5</td>
<td>1002.4</td>
<td>1121.0</td>
</tr>
<tr>
<td></td>
<td>1452.4</td>
<td>1526.4</td>
<td>1645.5</td>
</tr>
<tr>
<td></td>
<td>1426.0</td>
<td>1500.2</td>
<td>1619.0</td>
</tr>
<tr>
<td></td>
<td>0954.4</td>
<td>1028.5</td>
<td>1147.1</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2208.3</td>
<td>2325.1</td>
</tr>
<tr>
<td></td>
<td>1711.3</td>
<td>1751.0</td>
<td>1821.0</td>
</tr>
<tr>
<td></td>
<td>1626.0</td>
<td>1658.1</td>
<td>1752.0</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2217.0</td>
<td>2251.0</td>
</tr>
<tr>
<td></td>
<td>1256.6</td>
<td>1315.0</td>
<td>1381.9</td>
</tr>
<tr>
<td></td>
<td>2217.0</td>
<td>2251.0</td>
<td>2325.0</td>
</tr>
<tr>
<td></td>
<td>1751.3</td>
<td>1821.0</td>
<td>1917.0</td>
</tr>
<tr>
<td></td>
<td>2251.0</td>
<td>2325.0</td>
<td>2100.0</td>
</tr>
<tr>
<td></td>
<td>0424.5</td>
<td>0508.1</td>
<td>0624.1</td>
</tr>
<tr>
<td></td>
<td>0928.5</td>
<td>1002.4</td>
<td>1121.0</td>
</tr>
<tr>
<td></td>
<td>1452.4</td>
<td>1526.4</td>
<td>1645.5</td>
</tr>
<tr>
<td></td>
<td>1426.0</td>
<td>1500.2</td>
<td>1619.0</td>
</tr>
<tr>
<td></td>
<td>0954.4</td>
<td>1028.5</td>
<td>1147.1</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2208.3</td>
<td>2325.1</td>
</tr>
<tr>
<td></td>
<td>1711.3</td>
<td>1751.0</td>
<td>1821.0</td>
</tr>
<tr>
<td></td>
<td>1626.0</td>
<td>1658.1</td>
<td>1752.0</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2217.0</td>
<td>2251.0</td>
</tr>
<tr>
<td></td>
<td>1256.6</td>
<td>1315.0</td>
<td>1381.9</td>
</tr>
<tr>
<td></td>
<td>2217.0</td>
<td>2251.0</td>
<td>2325.0</td>
</tr>
<tr>
<td></td>
<td>1751.3</td>
<td>1821.0</td>
<td>1917.0</td>
</tr>
<tr>
<td></td>
<td>2251.0</td>
<td>2325.0</td>
<td>2100.0</td>
</tr>
<tr>
<td></td>
<td>0424.5</td>
<td>0508.1</td>
<td>0624.1</td>
</tr>
<tr>
<td></td>
<td>0928.5</td>
<td>1002.4</td>
<td>1121.0</td>
</tr>
<tr>
<td></td>
<td>1452.4</td>
<td>1526.4</td>
<td>1645.5</td>
</tr>
<tr>
<td></td>
<td>1426.0</td>
<td>1500.2</td>
<td>1619.0</td>
</tr>
<tr>
<td></td>
<td>0954.4</td>
<td>1028.5</td>
<td>1147.1</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2208.3</td>
<td>2325.1</td>
</tr>
<tr>
<td></td>
<td>1711.3</td>
<td>1751.0</td>
<td>1821.0</td>
</tr>
<tr>
<td></td>
<td>1626.0</td>
<td>1658.1</td>
<td>1752.0</td>
</tr>
<tr>
<td></td>
<td>2134.2</td>
<td>2217.0</td>
<td>2251.0</td>
</tr>
<tr>
<td></td>
<td>1256.6</td>
<td>1315.0</td>
<td>1381.9</td>
</tr>
<tr>
<td></td>
<td>2217.0</td>
<td>2251.0</td>
<td>2325.0</td>
</tr>
<tr>
<td></td>
<td>1751.3</td>
<td>1821.0</td>
<td>1917.0</td>
</tr>
<tr>
<td></td>
<td>2251.0</td>
<td>2325.0</td>
<td>2100.0</td>
</tr>
</tbody>
</table>