

## TERMINAL DA ALUMAR (ESTADO DO MARANHÃO) - 2020

Latitude 02° 40' 7 S  
ALUMAR

Longitude 044° 21' 8 W

Fuso +03.0 horas  
Nível Médio 3.41 m  
Carta 414

Janeiro		Fevereiro		Março		Abril									
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)								
<b>01</b> QUA	0502 1.3 1123 5.1 1715 1.6 2328 5.2	<b>17</b> SEX	0002 5.6 0621 1.0 1239 5.6 1849 1.2	<b>01</b> SAB	0541 1.5 1154 5.2 1802 1.6	<b>17</b> SEG	0151 5.1 0756 1.5 1411 5.3 2049 1.5	<b>01</b> DOM	0502 1.3 1106 5.4 1724 1.4 2338 5.1	<b>17</b> TER	0121 5.0 0721 1.8 1341 5.1 2019 1.7	<b>01</b> QUA	0006 4.9 0613 1.7 1217 5.1 1904 1.8	<b>17</b> SEX	0313 4.9 0923 2.0 1536 5.0 2204 1.5
<b>02</b> QUI	0545 1.5 1204 5.0 1800 1.8	<b>18</b> SAB	0108 5.4 0723 1.2 1339 5.5 1958 1.3	<b>02</b> DOM	0017 5.0 0628 1.7 1243 5.1 1902 1.8	<b>18</b> TER	0300 5.0 0906 1.7 1524 5.2 2158 1.4	<b>02</b> SEG	0547 1.5 1153 5.3 1815 1.7	<b>18</b> QUA	0238 4.9 0839 1.9 1458 5.0 2136 1.6	<b>02</b> QUI	0121 4.8 0724 1.8 1336 5.0 2038 1.7	<b>18</b> SAB	0413 5.0 1024 1.7 1632 5.2 2258 1.3
<b>03</b> SEX	0015 5.1 0632 1.7 1253 5.0 1854 1.9	<b>19</b> DOM	0219 5.3 0830 1.3 1447 5.5 2109 1.3	<b>03</b> SEG	0119 4.9 0728 1.8 1339 5.1 2026 1.9	<b>19</b> QUA	0413 5.1 1017 1.6 1632 5.4 2302 1.2	<b>03</b> TER	0034 4.9 0643 1.8 1251 5.1 1936 1.9	<b>19</b> QUI	0351 4.9 0956 1.8 1606 5.1 2241 1.4	<b>03</b> SEX	0245 4.9 0851 1.8 1508 5.2 2153 1.4	<b>19</b> DOM	0504 5.3 1111 1.4 1721 5.4 2345 1.1
<b>04</b> SAB	0113 4.9 0730 1.8 1345 5.0 2008 1.9	<b>20</b> SEG	0328 5.3 0939 1.3 1553 5.6 2217 1.1	<b>04</b> TER	0234 4.8 0839 1.9 1453 5.1 2147 1.7	<b>20</b> QUI	0517 5.3 1117 1.4 1730 5.5 2358 0.9	<b>04</b> QUA	0151 4.8 0756 1.9 1406 5.0 2106 1.8	<b>20</b> SEX	0454 5.1 1056 1.6 1706 5.3 2334 1.1	<b>04</b> SAB	0402 5.2 1008 1.4 1626 5.5 2256 0.9	<b>20</b> SEG	0549 5.5 1158 1.1 1806 5.6
<b>05</b> DOM	0219 4.9 0832 1.8 1443 5.1 2121 1.8	<b>21</b> TER	0436 5.4 1043 1.2 1653 5.7 2317 0.9	<b>05</b> QUA	0349 4.9 0954 1.7 1606 5.3 2251 1.3	<b>21</b> SEX	0609 5.5 1206 1.1 1823 5.7	<b>05</b> QUI	0311 4.8 0917 1.8 1536 5.2 2219 1.4	<b>21</b> SAB	0545 5.4 1149 1.3 1758 5.6	<b>05</b> DOM	0506 5.7 1111 0.9 1732 5.9 2354 0.4	<b>21</b> TER	0019 0.9 0624 5.7 1238 0.8 1847 5.8
<b>06</b> SEG	0323 5.0 0936 1.7 1547 5.2 2223 1.5	<b>22</b> QUA	0538 5.5 1139 1.0 1749 5.8	<b>06</b> QUI	0458 5.2 1100 1.4 1709 5.5 2349 0.9	<b>22</b> SAB	0045 0.7 0656 5.7 1254 0.9 1908 5.9	<b>06</b> SEX	0430 5.1 1036 1.5 1651 5.5 2321 1.0	<b>22</b> DOM	0015 0.9 0626 5.6 1226 1.0 1843 5.8	<b>06</b> SEG	0602 6.1 1208 0.4 1828 6.3	<b>22</b> QUA	0056 0.8 0700 5.8 1309 0.7 1923 5.9
<b>07</b> TER	0426 5.1 1038 1.5 1645 5.4 2317 1.2	<b>23</b> QUI	0011 0.6 0632 5.7 1226 0.9 1841 5.9	<b>07</b> SEX	0558 5.5 1158 1.0 1808 5.9	<b>23</b> DOM	0119 0.5 0736 5.8 1330 0.8 1949 6.0	<b>07</b> SAB	0534 5.5 1138 1.0 1753 5.9	<b>23</b> SEG	0056 0.7 0702 5.8 1304 0.8 1921 5.9	<b>07</b> TER	0045 0.0 0653 6.5 1300 -0.1 1919 6.6	<b>23</b> QUI	0128 0.7 0730 5.9 1351 0.6 1958 5.8
<b>08</b> QUA	0526 5.3 1132 1.3 1738 5.7	<b>24</b> SEX	0100 0.5 0715 5.8 1308 0.8 1928 6.0	<b>08</b> SAB	0041 0.6 0651 5.8 1251 0.7 1902 6.1	<b>24</b> SEG	0158 0.5 0806 5.8 1404 0.7 2021 6.0	<b>08</b> DOM	0015 0.5 0626 6.0 1230 0.5 1849 6.3	<b>24</b> TER	0128 0.6 0736 5.9 1343 0.7 1953 6.0	<b>08</b> QUA	0128 -0.2 0738 6.7 1351 -0.3 2004 6.7	<b>24</b> SEX	0200 0.8 0802 5.9 1421 0.6 2032 5.8
<b>09</b> QUI	0008 0.8 0619 5.5 1219 1.0 1826 5.9	<b>25</b> SAB	0145 0.4 0756 5.8 1353 0.8 2006 6.0	<b>09</b> DOM	0124 0.2 0738 6.1 1338 0.4 1954 6.4	<b>25</b> TER	0226 0.5 0838 5.8 1441 0.7 2053 6.0	<b>09</b> SEG	0104 0.1 0713 6.3 1317 0.1 1939 6.5	<b>25</b> QUA	0200 0.6 0804 5.9 1411 0.6 2024 6.0	<b>09</b> QUI	0209 -0.3 0819 6.8 1434 -0.3 2051 6.6	<b>25</b> SAB	0234 0.9 0832 5.8 1458 0.7 2102 5.6
<b>10</b> SEX	0058 0.6 0706 5.7 1304 0.8 1915 6.0	<b>26</b> DOM	0217 0.4 0834 5.8 1428 0.8 2043 6.0	<b>10</b> SEG	0208 0.0 0819 6.3 1419 0.2 2041 6.5	<b>26</b> QUA	0258 0.6 0906 5.8 1508 0.8 2119 5.9	<b>10</b> TER	0153 -0.2 0800 6.6 1404 -0.1 2024 6.7	<b>26</b> QUI	0230 0.7 0834 5.9 1449 0.7 2054 5.9	<b>10</b> SEX	0256 -0.1 0902 6.6 1513 -0.2 2134 6.4	<b>26</b> DOM	0302 1.0 0900 5.7 1532 0.9 2136 5.5
<b>11</b> SAB	0145 0.4 0754 5.9 1353 0.6 2002 6.2	<b>27</b> SEG	0256 0.5 0904 5.7 1502 0.9 2115 5.9	<b>11</b> TER	0254 -0.1 0902 6.4 1504 0.1 2123 6.4	<b>27</b> QUI	0326 0.8 0934 5.7 1545 0.9 2151 5.7	<b>11</b> QUA	0236 -0.3 0845 6.6 1453 -0.2 2106 6.6	<b>27</b> SEX	0300 0.8 0900 5.8 1515 0.8 2123 5.7	<b>11</b> SAB	0338 0.2 0947 6.4 1558 0.2 2213 6.0	<b>27</b> SEG	0339 1.1 0932 5.7 1604 1.0 2209 5.3
<b>12</b> DOM	0224 0.3 0836 6.0 1438 0.5 2049 6.2	<b>28</b> TER	0324 0.7 0939 5.6 1539 1.0 2147 5.7	<b>12</b> QUA	0338 0.0 0947 6.3 1553 0.2 2206 6.3	<b>28</b> SEX	0358 0.9 1000 5.6 1611 1.0 2219 5.6	<b>12</b> QUI	0313 -0.2 0926 6.6 1536 -0.1 2153 6.4	<b>28</b> SAB	0328 0.9 0926 5.7 1551 0.9 2154 5.5	<b>12</b> DOM	0415 0.6 1030 6.0 1645 0.6 2300 5.6	<b>28</b> TER	0415 1.3 1011 5.5 1649 1.2 2254 5.1
<b>13</b> SEG	0306 0.2 0917 6.0 1517 0.5 2134 6.1	<b>29</b> QUA	0358 0.9 1008 5.5 1608 1.1 2217 5.6	<b>13</b> QUI	0415 0.2 1032 6.2 1639 0.4 2254 6.0	<b>29</b> SAB	0426 1.1 1032 5.5 1649 1.2 2254 5.3	<b>13</b> SEX	0358 0.1 1008 6.4 1615 0.2 2236 6.1	<b>29</b> DOM	0358 1.1 0956 5.6 1621 1.1 2226 5.3	<b>13</b> SEG	0502 1.0 1113 5.6 1732 1.1 2354 5.2	<b>29</b> QUA	0502 1.4 1100 5.4 1739 1.4 2353 5.0
<b>14</b> TER	0354 0.3 1002 5.9 1602 0.6 2217 6.0	<b>30</b> QUI	0428 1.1 1041 5.4 1645 1.3 2253 5.4	<b>14</b> SEX	0502 0.5 1117 6.0 1724 0.7 2345 5.7	<b>14</b> SAB	<b>14</b> SAB	0443 0.5 1054 6.1 1702 0.6 2321 5.7	<b>30</b> SEG	0436 1.3 1032 5.5 1700 1.3 2308 5.1	<b>14</b> TER	0554 1.5 1204 5.3 1832 1.5	<b>30</b> QUI	0558 1.6 1200 5.2 1847 1.6	
<b>15</b> QUA	0438 0.5 1051 5.8 1654 0.8 2306 5.8	<b>31</b> SEX	0502 1.3 1113 5.3 1717 1.5 2331 5.2	<b>15</b> SAB	0556 0.9 1208 5.7 1819 1.1	<b>15</b> SAB	<b>15</b> SAB	0526 0.9 1143 5.7 1756 1.1	<b>31</b> TER	0517 1.5 1117 5.3 1753 1.6	<b>15</b> QUA	0058 4.9 0653 1.9 1309 5.0 1951 1.7	<b>15</b> QUA	<b>15</b> QUA	
<b>16</b> QUI	0524 0.7 1143 5.7 1747 1.0	<b>16</b> DOM	0043 5.4 0653 1.3 1304 5.5 1928 1.4	<b>16</b> DOM	<b>16</b> DOM	<b>16</b> DOM	<b>16</b> DOM	0015 5.3 0619 1.4 1236 5.4 1900 1.5	<b>16</b> SEG	<b>16</b> SEG	<b>16</b> QUI	0204 4.8 0804 2.1 1426 4.9 2102 1.7	<b>16</b> QUI	<b>16</b> QUI	

Maio		Junho		Julho		Agosto									
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)								
<b>01</b> <b>SEX</b>	0102 5.0 0704 1.7 1317 5.1 2006 1.5	<b>17</b> <b>DOM</b>	0326 5.0 0945 1.8 1547 5.1 2209 1.5	<b>01</b> <b>SEG</b>	0304 5.6 0921 1.2 1541 5.6 2158 0.9	<b>17</b> <b>QUA</b>	0411 5.3 1043 1.4 1641 5.2 2256 1.4	<b>01</b> <b>QUA</b>	0341 5.8 1002 0.9 1619 5.6 2232 0.9	<b>17</b> <b>SEX</b>	0417 5.3 1058 1.4 1700 5.2 2306 1.5	<b>01</b> <b>SAB</b>	0517 5.8 1149 0.7 1802 5.7	<b>17</b> <b>SEG</b>	0543 5.7 1213 0.8 1823 5.6
<b>02</b> <b>SAB</b>	0217 5.1 0824 1.6 1449 5.2 2121 1.3	<b>18</b> <b>SEG</b>	0417 5.2 1038 1.5 1638 5.3 2300 1.3	<b>02</b> <b>TER</b>	0408 5.9 1026 0.8 1645 5.8 2258 0.6	<b>18</b> <b>QUI</b>	0500 5.5 1130 1.2 1734 5.4 2345 1.3	<b>02</b> <b>QUI</b>	0441 6.0 1104 0.6 1721 5.8 2328 0.7	<b>18</b> <b>SAB</b>	0511 5.5 1151 1.1 1758 5.3 2358 1.2	<b>02</b> <b>DOM</b>	0002 0.9 0615 5.9 1241 0.5 1856 5.8	<b>18</b> <b>TER</b>	0023 0.9 0638 5.9 1302 0.4 1909 5.9
<b>03</b> <b>DOM</b>	0334 5.4 0947 1.3 1602 5.6 2228 0.9	<b>19</b> <b>TER</b>	0502 5.4 1121 1.2 1724 5.4 2343 1.1	<b>03</b> <b>QUA</b>	0504 6.2 1124 0.4 1743 6.1 2354 0.4	<b>19</b> <b>SEX</b>	0547 5.6 1213 0.9 1824 5.5	<b>03</b> <b>SEX</b>	0538 6.1 1200 0.4 1819 5.9	<b>19</b> <b>DOM</b>	0602 5.7 1239 0.8 1849 5.5	<b>03</b> <b>SEG</b>	0053 0.8 0706 6.0 1323 0.4 1941 5.9	<b>19</b> <b>QUA</b>	0109 0.6 0728 6.2 1351 0.2 1956 6.1
<b>04</b> <b>SEG</b>	0439 5.8 1053 0.8 1708 5.9 2326 0.5	<b>20</b> <b>QUA</b>	0543 5.6 1202 1.0 1809 5.6	<b>04</b> <b>QUI</b>	0558 6.4 1217 0.1 1838 6.2	<b>20</b> <b>SAB</b>	0026 1.1 0628 5.7 1300 0.8 1908 5.6	<b>04</b> <b>SAB</b>	0019 0.6 0630 6.2 1254 0.2 1909 6.0	<b>20</b> <b>SEG</b>	0049 1.0 0654 5.8 1321 0.6 1934 5.7	<b>04</b> <b>TER</b>	0136 0.7 0753 6.1 1402 0.3 2017 5.9	<b>20</b> <b>QUI</b>	0158 0.3 0813 6.3 1430 0.1 2039 6.2
<b>05</b> <b>TER</b>	0536 6.2 1151 0.3 1804 6.3	<b>21</b> <b>QUI</b>	0019 1.0 0621 5.8 1247 0.8 1853 5.7	<b>05</b> <b>SEX</b>	0043 0.2 0649 6.5 1306 0.0 1926 6.3	<b>21</b> <b>DOM</b>	0106 1.0 0711 5.8 1345 0.7 1953 5.6	<b>05</b> <b>DOM</b>	0106 0.5 0721 6.2 1343 0.2 1958 6.0	<b>21</b> <b>TER</b>	0132 0.8 0743 6.0 1404 0.4 2013 5.8	<b>05</b> <b>QUA</b>	0211 0.7 0834 6.0 1443 0.4 2054 5.8	<b>21</b> <b>SEX</b>	0245 0.2 0858 6.4 1508 0.1 2119 6.3
<b>06</b> <b>QUA</b>	0015 0.1 0623 6.5 1241 0.0 1858 6.5	<b>22</b> <b>SEX</b>	0058 0.9 0658 5.8 1323 0.7 1934 5.7	<b>06</b> <b>SAB</b>	0126 0.2 0738 6.5 1358 0.0 2011 6.2	<b>22</b> <b>SEG</b>	0151 1.0 0754 5.8 1421 0.6 2034 5.6	<b>06</b> <b>SEG</b>	0154 0.6 0806 6.2 1421 0.3 2041 5.9	<b>22</b> <b>QUA</b>	0211 0.7 0828 6.0 1451 0.4 2058 5.9	<b>06</b> <b>QUI</b>	0254 0.8 0904 5.9 1511 0.6 2126 5.7	<b>22</b> <b>SAB</b>	0326 0.2 0943 6.3 1556 0.2 2202 6.2
<b>07</b> <b>QUI</b>	0102 -0.1 0709 6.7 1326 -0.2 1947 6.5	<b>23</b> <b>SAB</b>	0136 0.9 0734 5.8 1400 0.7 2009 5.6	<b>07</b> <b>DOM</b>	0208 0.4 0823 6.3 1443 0.1 2056 6.0	<b>23</b> <b>TER</b>	0232 0.9 0838 5.8 1502 0.6 2109 5.6	<b>07</b> <b>TER</b>	0236 0.7 0851 6.0 1502 0.4 2119 5.7	<b>23</b> <b>QUI</b>	0258 0.6 0909 6.1 1528 0.4 2139 5.9	<b>07</b> <b>SEX</b>	0324 0.9 0939 5.8 1549 0.8 2200 5.6	<b>23</b> <b>DOM</b>	0409 0.4 1026 6.1 1639 0.5 2251 6.0
<b>08</b> <b>SEX</b>	0151 -0.1 0758 6.7 1409 -0.2 2032 6.4	<b>24</b> <b>DOM</b>	0206 0.9 0808 5.8 1441 0.7 2049 5.6	<b>08</b> <b>SEG</b>	0254 0.6 0906 6.1 1519 0.4 2141 5.8	<b>24</b> <b>QUA</b>	0308 0.9 0917 5.8 1547 0.7 2154 5.5	<b>08</b> <b>QUA</b>	0311 0.9 0932 5.9 1543 0.7 2158 5.6	<b>24</b> <b>SEX</b>	0345 0.6 0954 6.0 1609 0.5 2223 5.9	<b>08</b> <b>SAB</b>	0400 1.0 1009 5.7 1617 1.0 2232 5.4	<b>24</b> <b>SEG</b>	0500 0.6 1113 5.8 1724 0.8 2341 5.8
<b>09</b> <b>SAB</b>	0232 0.1 0843 6.5 1458 -0.1 2111 6.2	<b>25</b> <b>SEG</b>	0249 1.0 0845 5.7 1513 0.8 2123 5.4	<b>09</b> <b>TER</b>	0338 0.9 0951 5.9 1602 0.7 2223 5.5	<b>25</b> <b>QUI</b>	0356 1.0 1000 5.7 1626 0.8 2239 5.5	<b>09</b> <b>QUI</b>	0354 1.1 1006 5.7 1615 0.9 2238 5.4	<b>25</b> <b>SAB</b>	0426 0.7 1041 5.9 1658 0.7 2309 5.8	<b>09</b> <b>DOM</b>	0436 1.2 1043 5.5 1653 1.2 2304 5.3	<b>25</b> <b>TER</b>	0553 0.9 1209 5.5 1819 1.1
<b>10</b> <b>DOM</b>	0309 0.4 0924 6.3 1541 0.3 2156 5.9	<b>26</b> <b>TER</b>	0323 1.1 0923 5.7 1556 0.9 2200 5.3	<b>10</b> <b>QUA</b>	0413 1.2 1032 5.6 1647 1.0 2306 5.3	<b>26</b> <b>SEX</b>	0443 1.1 1051 5.6 1713 0.9 2328 5.5	<b>10</b> <b>SEX</b>	0432 1.3 1045 5.5 1656 1.2 2315 5.3	<b>26</b> <b>DOM</b>	0515 0.9 1132 5.7 1751 0.9	<b>10</b> <b>SEG</b>	0506 1.4 1119 5.3 1726 1.5 2341 5.2	<b>26</b> <b>QUA</b>	0036 5.6 0656 1.2 1315 5.2 1921 1.4
<b>11</b> <b>SEG</b>	0356 0.7 1006 5.9 1621 0.7 2243 5.5	<b>27</b> <b>QUA</b>	0404 1.2 1004 5.6 1639 1.1 2249 5.3	<b>11</b> <b>QUI</b>	0500 1.5 1113 5.4 1732 1.3 2356 5.1	<b>27</b> <b>SAB</b>	0534 1.2 1143 5.5 1809 1.1	<b>11</b> <b>SAB</b>	0508 1.5 1121 5.3 1736 1.4 2356 5.2	<b>27</b> <b>SEG</b>	0002 5.7 0609 1.0 1232 5.5 1851 1.1	<b>11</b> <b>TER</b>	0549 1.6 1204 5.1 1809 1.7	<b>27</b> <b>QUI</b>	0139 5.4 0808 1.4 1428 5.1 2034 1.6
<b>12</b> <b>TER</b>	0441 1.2 1053 5.6 1708 1.1 2334 5.2	<b>28</b> <b>QUI</b>	0454 1.3 1054 5.5 1726 1.2 2343 5.2	<b>12</b> <b>SEX</b>	0549 1.7 1202 5.2 1823 1.6	<b>28</b> <b>DOM</b>	0026 5.5 0632 1.3 1249 5.4 1913 1.2	<b>12</b> <b>DOM</b>	0553 1.7 1206 5.2 1819 1.6	<b>28</b> <b>TER</b>	0102 5.6 0717 1.2 1341 5.4 1953 1.2	<b>12</b> <b>QUA</b>	0023 5.1 0639 1.8 1302 4.9 1904 1.8	<b>28</b> <b>SEX</b>	0253 5.3 0924 1.4 1543 5.1 2149 1.6
<b>13</b> <b>QUA</b>	0524 1.6 1143 5.3 1804 1.5	<b>29</b> <b>SEX</b>	0549 1.4 1153 5.3 1830 1.3	<b>13</b> <b>SAB</b>	0047 5.0 0639 1.9 1256 5.0 1921 1.7	<b>29</b> <b>SEG</b>	0128 5.5 0743 1.3 1404 5.4 2021 1.1	<b>13</b> <b>SEG</b>	0038 5.1 0639 1.8 1256 5.0 1909 1.7	<b>29</b> <b>QUA</b>	0206 5.5 0834 1.3 1451 5.3 2058 1.3	<b>13</b> <b>QUI</b>	0115 5.0 0756 1.9 1409 4.8 2009 1.9	<b>29</b> <b>SAB</b>	0402 5.4 1034 1.1 1651 5.3 2254 1.3
<b>14</b> <b>QUI</b>	0030 5.0 0619 1.9 1239 5.0 1909 1.7	<b>30</b> <b>SAB</b>	0047 5.2 0651 1.5 1304 5.3 1943 1.3	<b>14</b> <b>DOM</b>	0136 5.0 0741 2.0 1354 5.0 2017 1.7	<b>30</b> <b>TER</b>	0236 5.6 0858 1.1 1513 5.5 2126 1.1	<b>14</b> <b>TER</b>	0123 5.1 0741 1.9 1356 4.9 2006 1.8	<b>30</b> <b>QUI</b>	0313 5.6 0945 1.1 1558 5.4 2206 1.2	<b>14</b> <b>SEX</b>	0224 5.0 0917 1.8 1521 4.8 2124 1.8	<b>30</b> <b>DOM</b>	0504 5.6 1132 0.9 1749 5.5 2349 1.1
<b>15</b> <b>SEX</b>	0130 4.9 0726 2.0 1347 4.9 2017 1.7	<b>31</b> <b>DOM</b>	0154 5.3 0804 1.4 1426 5.3 2054 1.2	<b>15</b> <b>SEG</b>	0228 5.0 0851 1.9 1453 5.0 2111 1.7	<b>15</b> <b>SEG</b>	0228 5.0 0851 1.9 1453 5.0 2111 1.7	<b>15</b> <b>QUA</b>	0219 5.1 0856 1.8 1458 4.9 2108 1.8	<b>31</b> <b>SEX</b>	0417 5.7 1051 0.9 1704 5.5 2308 1.1	<b>15</b> <b>SAB</b>	0339 5.1 1024 1.5 1630 5.0 2236 1.6	<b>31</b> <b>SEG</b>	0600 5.8 1219 0.6 1836 5.7
<b>16</b> <b>SAB</b>	0230 4.9 0841 2.0 1451 5.0 2117 1.7			<b>16</b> <b>TER</b>	0323 5.1 0951 1.7 1549 5.1 2206 1.6			<b>16</b> <b>QUI</b>	0319 5.2 1000 1.6 1600 5.0 2209 1.7			<b>16</b> <b>DOM</b>	0447 5.4 1121 1.2 1732 5.3 2334 1.3		

## TERMINAL DA ALUMAR (ESTADO DO MARANHÃO) - 2020

Latitude 02° 40' 7.5 S

Longitude 044° 21' 8 W

Fuso +03.0 horas

ALUMAR

35 Componentes

Nível Médio 3.41 m

Carta 414

Setembro		Outubro		Novembro		Dezembro									
HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)								
<b>01</b> <b>TER</b>	0034 0.9 0651 5.9 1302 0.5 1913 5.9	<b>17</b> <b>QUI</b>	0054 0.3 0709 6.4 1324 0.0 1934 6.5	<b>01</b> <b>QUI</b>	0051 0.7 0702 6.0 1309 0.5 1917 5.9	<b>17</b> <b>SAB</b>	0119 -0.2 0739 6.6 1349 -0.2 1953 6.8	<b>01</b> <b>DOM</b>	0134 0.6 0741 5.9 1347 0.8 1945 5.9	<b>17</b> <b>TER</b>	0236 -0.2 0851 6.3 1453 0.2 2100 6.4	<b>01</b> <b>TER</b>	0149 0.7 0756 5.6 1354 1.0 1954 5.8	<b>17</b> <b>QUI</b>	0302 0.1 0919 6.0 1513 0.6 2134 6.1
		&		Z											
<b>02</b> <b>QUA</b>	0111 0.7 0732 6.0 1343 0.4 1951 5.9	<b>18</b> <b>SEX</b>	0143 0.0 0758 6.6 1406 -0.2 2015 6.6	<b>02</b> <b>SEX</b>	0124 0.6 0738 6.0 1347 0.5 1949 6.0	<b>18</b> <b>DOM</b>	0204 -0.3 0823 6.6 1428 -0.1 2038 6.7	<b>02</b> <b>SEG</b>	0204 0.6 0813 5.8 1413 0.9 2013 5.8	<b>18</b> <b>QUA</b>	0315 0.1 0936 6.0 1536 0.6 2147 6.1	<b>02</b> <b>QUA</b>	0221 0.7 0832 5.6 1428 1.0 2028 5.7	<b>18</b> <b>SEX</b>	0349 0.4 1002 5.7 1600 0.9 2213 5.8
<b>03</b> <b>QUI</b>	0153 0.6 0806 6.1 1411 0.5 2023 5.9	<b>19</b> <b>SAB</b>	0224 -0.1 0845 6.6 1453 -0.1 2058 6.6	<b>03</b> <b>SAB</b>	0158 0.6 0808 6.0 1411 0.6 2015 5.9	<b>19</b> <b>SEG</b>	0254 -0.2 0906 6.5 1508 0.1 2119 6.5	<b>03</b> <b>TER</b>	0243 0.7 0847 5.6 1451 1.0 2043 5.7	<b>19</b> <b>QUI</b>	0402 0.4 1019 5.7 1617 1.0 2234 5.8	<b>03</b> <b>QUI</b>	0300 0.8 0904 5.4 1502 1.1 2102 5.7	<b>19</b> <b>SAB</b>	0426 0.8 1051 5.5 1645 1.2 2258 5.5
<b>04</b> <b>SEX</b>	0224 0.7 0839 6.0 1447 0.6 2053 5.8	<b>20</b> <b>DOM</b>	0306 -0.1 0924 6.4 1534 0.1 2143 6.4	<b>04</b> <b>DOM</b>	0232 0.6 0839 5.9 1447 0.8 2045 5.8	<b>20</b> <b>TER</b>	0338 0.0 0951 6.1 1556 0.4 2202 6.2	<b>04</b> <b>QUA</b>	0311 0.9 0917 5.4 1519 1.2 2113 5.6	<b>20</b> <b>SEX</b>	0451 0.9 1109 5.4 1704 1.4 2323 5.4	<b>04</b> <b>SEX</b>	0338 0.9 0943 5.3 1545 1.2 2141 5.6	<b>20</b> <b>DOM</b>	0511 1.1 1138 5.2 1728 1.5 2345 5.3
<b>05</b> <b>SAB</b>	0258 0.7 0906 5.9 1511 0.7 2121 5.7	<b>21</b> <b>SEG</b>	0356 0.1 1006 6.2 1613 0.4 2226 6.1	<b>05</b> <b>SEG</b>	0302 0.7 0908 5.7 1511 1.0 2109 5.7	<b>21</b> <b>QUA</b>	0417 0.4 1038 5.7 1641 0.9 2253 5.8	<b>05</b> <b>QUI</b>	0351 1.1 0953 5.3 1556 1.3 2147 5.5	<b>21</b> <b>SAB</b>	0543 1.3 1208 5.1 1800 1.7	<b>05</b> <b>SAB</b>	0411 1.1 1021 5.2 1626 1.3 2224 5.5	<b>21</b> <b>SEG</b>	0602 1.4 1224 5.1 1817 1.8
<b>06</b> <b>DOM</b>	0330 0.9 0938 5.7 1547 0.9 2149 5.6	<b>22</b> <b>TER</b>	0441 0.5 1056 5.8 1702 0.8 2311 5.8	<b>06</b> <b>TER</b>	0336 0.9 0939 5.5 1545 1.1 2138 5.6	<b>22</b> <b>QUI</b>	0506 0.9 1130 5.3 1728 1.4 2347 5.4	<b>06</b> <b>SEX</b>	0424 1.3 1032 5.1 1639 1.5 2234 5.3	<b>22</b> <b>DOM</b>	0019 5.1 0649 1.6 1308 5.0 1902 1.9	<b>06</b> <b>DOM</b>	0458 1.2 1108 5.2 1713 1.4 2315 5.3	<b>22</b> <b>TER</b>	0038 5.1 0658 1.6 1313 5.0 1919 1.9
<b>07</b> <b>SEG</b>	0400 1.0 1006 5.5 1611 1.2 2217 5.5	<b>23</b> <b>QUA</b>	0528 0.9 1151 5.4 1756 1.2	<b>07</b> <b>QUA</b>	0404 1.1 1009 5.3 1615 1.4 2211 5.4	<b>23</b> <b>SEX</b>	0606 1.3 1236 5.0 1828 1.8	<b>07</b> <b>SAB</b>	0509 1.5 1123 4.9 1730 1.7 2330 5.2	<b>23</b> <b>SEG</b>	0128 5.0 0756 1.7 1409 4.9 2017 2.0	<b>07</b> <b>SEG</b>	0554 1.4 1206 5.1 1809 1.5	<b>23</b> <b>QUA</b>	0136 5.0 0756 1.8 1408 5.0 2032 1.9
<b>08</b> <b>TER</b>	0434 1.2 1041 5.3 1649 1.4 2251 5.3	<b>24</b> <b>QUI</b>	0006 5.5 0630 1.3 1256 5.1 1856 1.6	<b>08</b> <b>QUI</b>	0445 1.4 1051 5.1 1656 1.6 2254 5.3	<b>24</b> <b>SAB</b>	0051 5.1 0723 1.6 1347 4.9 1941 2.0	<b>08</b> <b>DOM</b>	0609 1.6 1230 4.9 1832 1.8	<b>24</b> <b>TER</b>	0234 5.0 0858 1.6 1508 5.0 2124 1.8	<b>08</b> <b>TER</b>	0019 5.2 0700 1.4 1311 5.2 1921 1.5	<b>24</b> <b>QUI</b>	0236 5.0 0854 1.8 1504 5.1 2138 1.8
<b>09</b> <b>QUA</b>	0508 1.4 1121 5.1 1726 1.6 2334 5.2	<b>25</b> <b>SEX</b>	0111 5.2 0751 1.6 1408 4.9 2006 1.8	<b>09</b> <b>SEX</b>	0526 1.6 1145 4.8 1749 1.8 2353 5.1	<b>25</b> <b>DOM</b>	0206 5.0 0839 1.6 1454 4.9 2100 1.9	<b>09</b> <b>SEG</b>	0039 5.0 0730 1.7 1345 5.0 1949 1.8	<b>25</b> <b>QUA</b>	0332 5.1 0954 1.5 1600 5.2 2219 1.5	<b>09</b> <b>QUA</b>	0141 5.2 0811 1.3 1424 5.4 2043 1.4	<b>25</b> <b>SEX</b>	0332 5.0 0951 1.7 1556 5.2 2230 1.5
<b>10</b> <b>QUI</b>	0556 1.7 1215 4.8 1817 1.8	<b>26</b> <b>SAB</b>	0234 5.1 0904 1.5 1523 5.0 2126 1.8	<b>10</b> <b>SAB</b>	0632 1.8 1256 4.7 1856 1.9	<b>26</b> <b>SEG</b>	0313 5.1 0943 1.5 1556 5.1 2202 1.6	<b>10</b> <b>TER</b>	0208 5.1 0849 1.5 1458 5.2 2108 1.5	<b>26</b> <b>QUI</b>	0423 5.3 1045 1.3 1649 5.4 2306 1.2	<b>10</b> <b>QUI</b>	0302 5.4 0921 1.1 1536 5.7 2156 1.0	<b>26</b> <b>SAB</b>	0428 5.1 1043 1.5 1647 5.4 2317 1.3
<b>11</b> <b>SEX</b>	0026 5.0 0706 1.9 1328 4.7 1926 2.0	<b>27</b> <b>DOM</b>	0347 5.2 1011 1.3 1628 5.2 2234 1.5	<b>11</b> <b>DOM</b>	0104 4.9 0802 1.8 1413 4.8 2013 1.9	<b>27</b> <b>TER</b>	0411 5.3 1039 1.3 1649 5.4 2258 1.3	<b>11</b> <b>QUA</b>	0330 5.4 0956 1.1 1606 5.6 2219 1.0	<b>27</b> <b>SEX</b>	0511 5.4 1126 1.2 1728 5.6 2353 1.0	<b>11</b> <b>SEX</b>	0409 5.6 1024 0.8 1638 6.0 2258 0.6	<b>27</b> <b>DOM</b>	0521 5.3 1130 1.4 1732 5.5
<b>12</b> <b>SAB</b>	0139 4.9 0841 1.9 1449 4.7 2049 1.9	<b>28</b> <b>SEG</b>	0447 5.4 1108 1.0 1719 5.5 2323 1.2	<b>12</b> <b>SEG</b>	0236 5.0 0919 1.6 1532 5.1 2138 1.6	<b>28</b> <b>QUA</b>	0504 5.5 1123 1.0 1730 5.6 2343 1.0	<b>12</b> <b>QUI</b>	0438 5.7 1056 0.7 1702 6.1 2317 0.5	<b>28</b> <b>SAB</b>	0556 5.6 1204 1.0 1806 5.8	<b>12</b> <b>SAB</b>	0511 5.9 1123 0.5 1730 6.3 2354 0.2	<b>28</b> <b>SEG</b>	0002 1.0 0609 5.4 1211 1.2 1813 5.7
<b>13</b> <b>DOM</b>	0306 5.0 0954 1.6 1602 5.0 2204 1.6	<b>29</b> <b>TER</b>	0538 5.6 1158 0.8 1804 5.7	<b>13</b> <b>TER</b>	0356 5.3 1026 1.1 1638 5.5 2247 1.1	<b>29</b> <b>QUI</b>	0551 5.7 1202 0.8 1808 5.8	<b>13</b> <b>SEX</b>	0536 6.1 1151 0.3 1756 6.5	<b>29</b> <b>DOM</b>	0032 0.8 0638 5.7 1245 1.0 1843 5.8	<b>13</b> <b>DOM</b>	0608 6.2 1213 0.3 1821 6.5	<b>29</b> <b>TER</b>	0049 0.8 0656 5.5 1254 1.1 1858 5.8
<b>14</b> <b>SEG</b>	0419 5.3 1056 1.2 1704 5.4 2306 1.2	<b>30</b> <b>QUA</b>	0006 0.9 0623 5.8 1238 0.6 1845 5.9	<b>14</b> <b>QUA</b>	0500 5.8 1124 0.7 1734 6.0 2343 0.5	<b>30</b> <b>SEX</b>	0019 0.8 0632 5.8 1241 0.7 1843 5.9	<b>14</b> <b>SAB</b>	0009 0.1 0630 6.4 1239 0.0 1845 6.7	<b>30</b> <b>SEG</b>	0106 0.7 0717 5.7 1315 0.9 1917 5.9	<b>14</b> <b>SEG</b>	0047 0.0 0702 6.3 1302 0.2 1911 6.6	<b>30</b> <b>QUA</b>	0126 0.7 0738 5.6 1336 1.0 1939 5.8
<b>15</b> <b>TER</b>	0521 5.7 1153 0.7 1800 5.8			<b>15</b> <b>QUI</b>	0558 6.2 1213 0.2 1821 6.4	<b>31</b> <b>SAB</b>	0058 0.6 0706 5.9 1309 0.7 1913 5.9	<b>15</b> <b>DOM</b>	0100 -0.2 0717 6.5 1323 -0.1 1930 6.7			<b>15</b> <b>TER</b>	0136 -0.1 0753 6.3 1353 0.2 2000 6.5	<b>31</b> <b>QUI</b>	0204 0.6 0813 5.6 1409 1.0 2019 5.8
<b>16</b> <b>QUA</b>	0002 0.7 0619 6.1 1243 0.3 1849 6.2			<b>16</b> <b>SEX</b>	0034 0.1 0653 6.5 1300 -0.1 1906 6.7			<b>16</b> <b>SEG</b>	0153 -0.3 0804 6.5 1406 0.0 2015 6.6			<b>16</b> <b>QUA</b>	0217 -0.1 0838 6.2 1436 0.4 2049 6.3		