

Janeiro		Fevereiro		Março		Abril											
HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)										
01 SAB	0251 2.2 0747 0.5 1023 1.0 1208 0.8 1613 2.0 2030 -0.1	17 SEG	0423 1.9 0853 0.1 1541 1.8 2104 0.0	01 TER	0406 2.2 0853 0.5 1138 1.2 1339 0.9 1715 2.2 2132 -0.5	17 QUI	0454 2.1 0941 0.1 1639 2.2 2145 -0.2	01 TER	0258 2.1 0804 0.7 1004 0.9 1156 0.8 1606 2.2 2043 -0.4	17 QUI	0404 2.1 0851 0.1 1541 2.3 2054 -0.2	01 SEX	0353 2.0 0851 0.2 1253 1.2 1654 2.3 2117 -0.5	17 DOM	0508 2.0 0924 -0.1 1651 2.4 2128 -0.2		
02 DOM	0343 2.3 0819 1.0 1109 1.2 1315 0.9 1700 2.0 2106 -0.3	18 TER	0453 1.9 0923 0.1 1608 1.9 2138 -0.1	02 QUA	0454 2.2 0923 0.4 1219 1.4 1432 1.0 1758 2.2 2206 -0.5	18 SEX	0526 2.0 1006 0.1 1719 2.3 2209 -0.3	02 QUA	0345 2.2 0838 0.5 1115 1.1 1253 1.0 1647 2.3 2109 -0.5	18 SEX	0439 2.1 0913 0.0 1621 2.4 2117 -0.3	02 SAB	0428 2.0 0917 0.1 1302 1.4 1400 1.3 1738 2.2 2158 -0.5	18 SEG	0104 1.3 0249 1.2 0558 1.8 1002 -0.1 1739 2.3 2204 -0.1		
03 SEG	0428 2.2 0900 0.4 1158 1.4 1411 0.9 1745 2.0 2149 -0.4	19 QUA	0513 1.9 1000 0.1 1647 2.0 2202 -0.1	03 QUI	0534 2.1 1000 1.3 1308 1.5 1524 1.1 1841 2.1 2251 -0.5	19 SAB	0609 1.9 1049 0.1 1806 2.2 2251 -0.2	03 QUI	0419 2.1 0904 0.3 1209 1.2 1349 1.1 1724 2.3 2149 -0.6	19 SAB	0515 2.0 0951 -0.1 1704 2.4 2153 -0.3	03 DOM	0458 1.8 0966 0.0 1343 1.5 1513 1.4 1821 2.0 2236 -0.4	19 TER	0136 1.5 0358 1.1 0656 1.7 1049 -0.1 1830 2.1 2247 0.1		
04 TER	0511 2.2 0941 0.4 1241 1.5 1508 0.9 1828 2.0 2223 -0.4	20 QUI	0536 1.9 1036 0.2 1730 2.0 2234 -0.1	04 SEX	0611 1.9 1039 0.3 1358 1.6 1624 1.2 1924 2.0 2324 -0.4	20 DOM	0706 1.7 1121 0.2 1900 2.1 2326 -0.1	04 SEX	0500 2.0 0945 0.2 1302 1.4 1449 1.3 1806 2.2 2219 -0.5	20 DOM	0602 1.9 1019 0.0 1754 2.3 2224 -0.2	04 SEG	0315 1.8 1034 0.0 1424 1.6 1643 1.4 1911 1.8 2309 -0.2	20 QUA	0208 1.7 0502 0.9 0758 1.5 1126 0.1 1447 1.2 1558 1.1 1926 1.9 2324 0.3		
05 QUA	0600 2.0 1011 0.4 1319 1.6 1602 0.9 1913 1.9 2304 -0.3	21 SEX	0621 1.8 1106 0.3 1823 2.0 2308 -0.1	05 SAB	0702 1.7 1109 0.3 1445 1.7 1723 1.1 2015 1.9	21 SEG	0319 1.4 0532 1.2 0813 1.6 1202 0.3 1519 1.3 2000 2.0	05 SAB	0541 1.9 1013 0.1 1353 1.6 1554 1.3 1854 2.0 2300 -0.4	21 SEG	0211 1.4 0402 1.2 0700 1.7 1100 0.0 1847 2.1 2302 -0.1	05 TER	0341 1.8 1106 0.1 1509 1.7 1754 1.3 2009 1.6 2358 0.0	21 QUI	0251 1.8 0600 0.6 0900 1.5 1211 0.3 1515 1.1 1706 1.0 2030 1.8		
06 QUI	0654 1.9 1054 0.4 1404 1.7 1700 1.9 2002 1.9 2354 -0.2	22 SAB	0723 1.7 1153 0.4 1921 1.9 2354 0.0	06 DOM	0006 -0.2 0439 1.4 0600 1.4 0758 1.5 1154 0.3 1526 1.7 1817 1.0 2108 1.8	22 TER	0008 0.1 0353 1.5 0638 0.9 0924 1.4 1256 0.5 1553 1.3 1754 1.1 2102 1.9	06 DOM	0454 1.6 0615 1.7 1054 0.1 1436 1.7 1700 1.3 1947 1.9 2343 -0.2	22 TER	0245 1.6 0517 1.0 0804 1.5 1149 0.2 1504 1.3 1615 1.2 1947 2.0 2349 0.2	06 QUA	0408 1.8 1151 0.2 1554 1.6 1849 1.1 2111 1.5	22 SEX	0006 0.6 0323 1.9 0651 0.4 0958 1.5 1306 0.4 1553 1.0 1804 0.8 2130 1.8		
07 SEX	0747 1.7 1136 0.5 1454 1.8 1754 0.8 2054 1.8	23 DOM	0404 1.3 0532 1.2 0834 1.6 1234 0.5 1539 1.2 1700 1.2 2024 1.9	07 SEG	0054 0.0 0456 1.5 0704 1.2 0858 1.4 1236 0.4 1608 1.7 1904 0.9 2202 1.7	23 QUA	0056 0.3 0421 1.6 0721 0.7 1036 1.4 1351 0.7 1615 1.2 1851 0.8 2204 1.8	07 SEG	0406 1.7 1132 0.2 1517 1.7 1802 1.2 2041 1.7	23 QUA	0315 1.7 0517 0.8 0913 1.4 1234 0.4 1530 1.2 1738 1.1 2049 1.8	07 QUI	0043 0.3 0322 0.8 1232 0.4 1632 1.5 1921 1.0 2211 1.5	23 SAB	0054 0.8 0402 1.9 0728 0.3 1054 1.6 1406 0.6 1611 0.9 1851 0.6 2224 1.8		
08 SAB	0036 -0.1 0545 1.2 0841 1.6 1211 0.5 1538 1.8 1843 0.7 2143 1.8	24 SEG	0038 0.1 0421 1.3 0645 1.0 0943 1.5 1315 0.6 1604 1.2 1806 1.0 2126 1.9	08 TER	0141 0.2 0524 1.5 0758 1.1 0958 1.3 1315 0.5 1654 1.6 1954 0.8 2258 1.7	24 QUI	0145 0.6 0456 1.6 0806 0.4 1145 1.5 1456 0.8 1647 1.0 1928 0.6 2304 1.8	08 TER	0021 0.0 0434 1.7 1208 0.3 1600 1.7 1858 1.0 2139 1.6	08 TER	0021 0.0 0434 1.7 1208 0.3 1600 1.7 1858 1.0 2139 1.6	24 QUI	0030 0.5 0354 1.8 0706 0.5 1019 1.4 1321 0.6 1602 1.1 1832 0.8 2151 1.8	08 SEX	0126 0.6 0515 1.6 0832 1.1 0956 1.1 1313 0.6 1706 1.4 1954 0.9 2309 1.5	24 DOM	0143 1.0 0439 1.8 0806 0.2 1147 1.7 1917 0.4 2317 1.8
09 DOM	0119 0.1 0508 1.2 0654 1.1 0934 1.6 1258 0.6 1617 1.7 1921 0.7 2232 1.8	25 TER	0121 0.3 0453 1.3 0734 0.8 1049 1.5 1409 0.8 1634 1.1 1900 0.8 2224 1.9	09 QUA	0226 0.5 0600 1.4 0843 1.0 1056 1.3 1402 0.7 1734 1.4 2024 0.7 2356 1.7	25 SEX	0236 0.9 0524 1.5 0856 0.3 1254 1.6 1956 0.4	09 QUA	0106 0.2 0502 1.7 0804 1.1 0923 1.2 1254 0.4 1643 1.6 1941 0.9 2238 1.6	09 QUA	0111 0.8 0426 1.8 0756 0.3 1123 1.5 1424 0.8 1623 1.0 1909 0.6 2251 1.8	25 SEX	0221 0.8 0554 1.4 0845 1.1 1053 1.2 1408 0.7 1749 1.1 2002 0.9	25 SEG	0234 1.2 0509 1.6 0849 0.3 1238 1.9 1928 0.3		
10 SEG	0208 0.3 0547 1.2 0745 1.0 1023 1.5 1345 0.7 1700 1.6 2002 0.6 2321 1.8	26 QUA	0211 0.6 0523 1.3 0813 0.6 1200 1.6 1523 0.9 1658 1.0 1941 0.6 2321 1.9	10 QUI	0326 0.7 0651 1.3 0908 1.0 1157 1.3 1500 0.8 1808 1.2 2058 0.7	26 SAB	0004 1.9 0341 1.2 0554 1.4 0938 0.4 1354 1.8 2004 0.2	10 QUI	0158 0.5 0539 1.6 0845 1.0 1030 1.2 1339 0.6 1715 1.4 2008 0.8 2338 1.6	10 QUI	0202 1.0 0500 1.7 0834 0.2 1223 1.6 1941 0.4 2347 1.8	26 SAB	0004 1.6 0339 0.9 0623 1.1 0806 1.0 1138 1.4 1524 0.8 1808 0.8 2004 0.8	26 TER	0008 1.9 0341 1.2 0541 1.4 0917 0.4 1324 2.0 1915 0.2		
11 TER	0304 0.4 0626 1.1 0815 1.0 1113 1.5 1434 0.8 1749 1.4 2045 0.6	27 QUI	0309 0.8 0558 1.2 0902 0.5 1313 1.7 2002 0.5	11 SEX	0056 1.7 0447 0.8 0802 1.1 0917 1.1 1251 1.4 1634 0.9 1854 0.9 2111 0.7	27 DOM	0106 2.0 1013 0.4 1447 2.0 2000 0.0	11 SEX	0256 0.7 0611 1.4 0904 1.0 1126 1.2 1432 0.8 1756 1.2 2038 0.8	11 SEX	0300 1.2 0528 1.5 0908 0.2 1317 1.8 1951 0.2	27 DOM	0058 1.7 0643 0.8 1217 1.6 1902 0.6	27 QUA	0100 1.9 0956 0.5 1411 2.1 1921 0.0		
12 QUA	0013 1.8 0408 0.5 0847 1.0 1206 1.5 1530 0.8 1834 1.1 2109 0.7	28 SEX	0023 2.0 0424 1.0 0634 1.1 0954 0.5 1417 1.8 2004 0.3	12 SAB	0154 1.8 0613 0.7 1341 1.5 1911 0.6	28 SEG	0206 2.0 1100 0.6 1528 2.1 2013 -0.2	12 SAB	0038 1.6 0411 0.9 0702 1.1 0902 1.0 1217 1.3 1753 0.9 2051 0.7	12 SAB	0043 1.9 0953 0.4 1408 2.0 1945 0.1	28 SEG	0149 1.9 0721 0.6 1258 1.8 1915 0.3	28 QUI	0151 1.9 0723 0.8 0854 0.8 1024 0.7 1458 2.2 1951 -0.2		
13 QUI	0109 1.9 0524 0.6 1300 1.5 1736 0.8 1949 0.9 2141 0.7	29 SAB	0128 2.0 0751 0.9 1047 0.6 1508 2.0 2002 0.1	13 DOM	0247 1.9 0713 0.5 1417 1.6 1956 0.3	29 TER	0326 2.0 0800 0.3 1454 1.8 2023 0.1	13 DOM	0134 1.8 0609 0.8 1302 1.5 1913 0.6	29 TER	0136 2.0 1024 0.5 1454 2.1 1954 -0.2	13 QUA	0230 2.0 0747 0.4 1345 2.0 1947 0.2	29 SEX	0238 1.9 0754 0.5 1543 2.2 2017 -0.3		
14 SEX	0206 1.9 0636 0.5 1356 1.6 1908 0.6	30 DOM	0230 2.1 0743 0.8 0939 0.9 1145 0.7 1556 2.1 2023 -0.2	14 SEG	0326 2.0 0800 0.3 1454 1.8 2023 0.1	30 QUA	0219 1.9 0713 0.6 1347 1.7 1945 0.3	14 SEG	0223 2.0 0758 0.7 0939 0.8 1100 0.7 1534 2.3 2015 -0.3	30 QUA	0304 2.1 0804 0.2 1432 2.2 2002 0.0	30 SAB	0315 1.9 0821 0.2 1624 2.2 2056 -0.3				
15 SAB	0300 1.9 0724 0.3 1443 1.6 1958 0.3	31 SEG	0321 2.2 0809 0.6 1049 1.0 1245 0.8 1639 2.2 2058 -0.4	15 TER	0400 2.0 0838 0.2 1526 2.0 2054 0.0	31 QUI	0300 2.0 0754 0.4 1126 1.2 1423 1.9 2006 0.1	15 TER	0300 2.0 0754 0.4 1126 1.2 1423 1.9 2006 0.1	31 QUI	0306 2.1 0811 0.5 1611 2.3 2051 -0.5	15 SEX	0347 2.1 0826 0.1 1515 2.4 2026 -0.1				
16 DOM	0349 1.9 0808 0.2 1511 1.7 2038 0.1			16 QUA	0432 2.0 0906 0.1 1558 2.1 2115 -0.1			16 QUA	0338 2.1 0819 0.2 1500 2.1 2034 -0.1			16 SAB	0426 2.1 0856 -0.1 1602 2.4 2056 -0.2				

TERMINAL PORTUÁRIO DA PONTA DO FÉLIX (ESTADO DO PARANÁ) - 2022

Latitude 25° 27.3 S

Longitude 048° 40.7 W

Fuso +03.0 horas

APPA

31 Componentes

Nível Médio 1.09 m

Carta 1822

Maio		Junho		Julho		Agosto	
HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)	HORA ALT (m)
01 DOM 0356 1.8 0858 0.1 1708 2.1 2132 -0.3	17 TER 0024 1.4 0239 1.0 0554 1.8 0953 -0.2 1723 2.3 2151 0.1	01 QUA 0217 1.8 0958 0.0 1821 1.7 2224 0.1	17 SEX 0113 1.7 0406 0.8 0721 1.8 1102 -0.2 1856 2.0 2256 0.5	01 SEX 0354 1.8 1017 0.0 1828 1.7 2247 0.2	17 DOM 0147 1.6 0428 0.9 0741 2.0 1128 -0.2 1915 1.8 2315 0.5	01 SEG 0551 2.0 1100 -0.1 1841 1.7 2330 0.3	17 QUA 0302 1.7 0554 1.0 0849 1.9 1226 0.0 1634 1.4 1842 1.2 2038 1.4
02 SEG 0224 1.7 0302 1.7 0430 1.7 0938 0.0 1439 1.5 1756 1.9 2206 -0.2	18 QUA 0102 1.6 0343 0.9 0649 1.7 1032 -0.1 1815 2.1 2228 0.3	02 QUI 0302 1.8 1038 0.0 1653 1.5 1909 1.6 2304 0.2	18 SAB 0200 1.8 0500 0.7 0809 1.8 1153 -0.1 1953 1.9 2339 0.6	02 SAB 0447 1.8 1054 0.0 1838 1.6 2319 0.4	18 SEG 0226 1.7 0519 0.9 0826 1.9 1209 -0.1 2008 1.7 2358 0.5	02 TER 0647 2.0 1138 0.0 1956 1.6	18 QUI 0015 0.4 0349 1.7 0645 0.9 0941 0.8 1309 0.2 1658 1.5 1924 1.1 2136 1.4
03 TER 0243 1.8 1009 0.0 1421 1.5 1606 1.5 1849 1.7 2253 -0.1	19 QUI 0145 1.7 0441 0.8 0745 1.6 1111 0.0 1911 2.0 2306 0.5	03 SEX 0354 1.7 1111 0.1 1624 1.5 1802 1.4 2002 1.5 2353 0.4	19 DOM 0245 1.8 0554 0.6 0900 1.8 1239 0.1 2049 1.8	03 DOM 0545 1.8 1128 0.1 1932 1.6	19 TER 0311 1.7 0608 0.8 0913 1.9 1300 0.0 1658 1.2 1817 1.1 2104 1.6	03 QUA 0006 0.4 0751 1.9 1213 0.1 1617 1.3 1809 1.2 2108 1.5	19 SEX 0100 0.5 0426 1.6 0724 0.7 1034 1.8 1402 0.4 1734 1.4 2006 1.0 2232 1.3
04 QUA 0313 1.8 1053 0.1 1506 1.6 1738 1.4 1947 1.6 2332 0.2	20 SEX 0219 1.8 0534 0.6 0839 1.6 1202 0.1 1517 1.0 1624 0.9 2009 1.8 2354 0.7	04 SAB 0449 1.7 1154 0.2 1700 1.4 1819 1.4 2056 1.5	20 SEG 0015 0.7 0324 1.8 0639 0.6 0951 1.8 1323 0.2 1700 0.9 1808 0.9 2138 1.7	04 SEG 0000 0.5 0700 1.7 1204 0.1 2039 1.6	20 QUA 0043 0.6 0358 1.7 0658 0.7 1004 1.9 1349 0.2 1721 1.2 1911 1.0 2200 1.5	04 QUI 0058 0.5 0404 1.2 0506 1.1 0854 1.9 1300 0.2 1643 1.3 1906 0.9 2215 1.5	20 SAB 0149 0.6 0506 1.5 0804 0.6 1128 1.7 1458 0.6 1809 1.3 2053 0.9 2324 1.4
05 QUI 0353 1.8 1132 0.2 1551 1.5 1828 1.3 2049 1.5	21 SAB 0300 1.9 0617 0.5 0932 1.6 1258 0.3 1553 0.9 1739 0.8 2108 1.8	05 DOM 0034 0.6 0553 1.5 1236 0.3 2147 1.5	21 TER 0100 0.8 0406 1.7 0715 0.5 1038 1.9 1413 0.3 1736 0.9 1858 0.8 2223 1.7	05 TER 0049 0.6 0813 1.7 1251 0.2 1709 1.2 1806 1.1 2138 1.6	21 QUI 0123 0.6 0443 1.6 0745 0.6 1056 1.9 1438 0.4 1700 1.2 2000 1.0 2253 1.5	05 SEX 0153 0.7 0413 1.1 0621 0.9 0956 1.9 1353 0.5 1708 1.3 2058 0.7 2324 1.5	21 DOM 0241 0.7 0553 1.3 0845 0.6 1226 1.8 1604 0.8 1902 1.2 2113 1.0
06 SEX 0011 0.4 0432 1.7 1209 0.3 1626 1.4 1902 1.2 2147 1.5	22 DOM 0038 0.8 0343 1.8 0702 0.4 1021 1.7 1354 0.4 1623 0.8 1826 0.7 2202 1.8	06 SEG 0115 0.7 0854 1.5 1317 0.4 1841 1.1 2232 1.6	22 QUA 0151 0.8 0454 1.6 0800 0.5 1121 1.9 1511 0.4 1819 0.8 1938 0.8 2309 1.7	06 QUA 0128 0.7 0917 1.8 1336 0.3 1721 1.1 1904 1.0 2236 1.6	22 SEX 0208 0.7 0521 1.5 0817 0.6 1151 1.9 1532 0.6 1851 1.1 2045 1.0 2345 1.5	06 SAB 0254 0.8 0447 1.0 0708 0.7 1054 1.9 1447 0.7 1745 1.2 2045 0.6	22 SEG 0017 1.4 0356 0.8 0638 1.0 0904 0.6 1324 1.8 1738 0.8
07 SAB 0100 0.6 0506 1.5 1258 0.5 1704 1.3 1913 1.1 2241 1.5	23 SEG 0119 1.0 0419 1.7 0747 0.3 1108 1.8 1456 0.5 1702 0.7 1858 0.6 2256 1.8	07 TER 0208 0.8 0956 1.7 1408 0.4 1802 0.9 1902 0.9 2319 1.7	23 QUI 0238 0.8 0536 1.4 0839 0.5 1211 2.0 1619 0.5	07 QUI 0219 0.8 0434 1.0 0630 0.9 1015 1.9 1423 0.4 1751 1.0 1958 0.8 2338 1.6	23 SAB 0302 0.8 0604 1.2 0858 0.6 1245 1.9 1643 0.6 2004 1.0 2100 1.0	07 DOM 0039 1.6 0743 0.5 1154 2.0 1551 0.9 1815 1.2 2124 0.5	23 TER 0109 1.5 0641 0.7 0800 0.7 0908 0.7 1419 1.9 1853 0.6
08 DOM 0156 0.8 0543 1.3 0753 1.2 0951 1.3 1351 0.6 1749 1.1 1917 1.0 2328 1.6	24 TER 0206 1.0 0500 1.6 0817 0.3 1158 1.9 1611 0.5 1754 0.6 1909 0.5 2343 1.8	08 QUA 0313 0.9 0423 0.9 0614 0.8 1051 1.8 1504 0.5 1945 0.8	24 SEX 0000 1.7 0334 0.9 0619 1.2 0909 0.6 1304 2.0 1734 0.5	08 SEX 0454 0.9 0713 0.7 1111 2.0 1519 0.6 1823 0.9 2047 0.7	24 DOM 0038 1.5 0417 0.8 0658 1.0 0928 0.7 1345 1.9 1800 0.6	08 SEG 0149 1.7 0756 0.3 1254 2.0 1739 1.0 1900 1.0 2211 0.5	24 QUA 0158 1.6 0726 0.4 1506 2.0 1941 0.4
09 SEG 0300 0.9 0647 1.0 1041 1.5 1449 0.6 1813 0.8 1936 0.8	25 QUA 0302 1.0 0543 1.4 0858 0.4 1247 2.0 1745 0.4	09 QUI 0015 1.7 0717 0.6 1141 2.0 1613 0.5	25 SAB 0053 1.7 0504 0.8 0732 0.9 0949 0.7 1400 2.0 1836 0.4	09 SAB 0051 1.7 0741 0.5 1209 2.1 1632 0.7 1917 0.9 2134 0.7	25 SEG 0128 1.5 0647 0.7 0947 0.8 1441 1.9 1902 0.5	09 TER 0245 1.9 0754 0.1 1358 2.1 1913 0.8 2054 0.9 2308 0.6	25 QUI 0239 1.8 0802 0.1 1551 2.0 2015 0.2
10 TER 0013 1.7 0658 0.8 1124 1.7 1754 0.6	26 QUI 0026 1.8 0415 1.0 0624 1.1 0932 0.8 1336 2.1 1834 0.2	10 SEX 0119 1.8 0734 0.5 1236 2.1 1749 0.5	26 DOM 0147 1.7 0656 0.6 1456 2.0 1921 0.2	10 DOM 0202 1.8 0745 0.4 1311 2.1 1721 1.1 2051 0.9 2234 0.7	26 TER 0217 1.6 0741 0.4 1530 1.9 1953 0.3	10 QUA 0334 2.1 0809 -0.1 1458 2.2 1958 0.7 2206 1.0	26 SEX 0304 1.9 0841 0.0 1621 2.0 2054 0.1
11 QUA 0058 1.8 0723 0.6 1215 1.9 1845 0.4	27 SEX 0113 1.8 0636 0.8 0800 0.8 1000 0.7 1424 2.1 1909 0.1	11 SAB 0219 1.9 0738 0.3 1336 2.2 1854 0.4	27 SEG 0238 1.6 0751 0.4 1549 2.0 2004 0.1	11 SEG 0300 1.9 0753 0.2 1415 2.2 1919 0.6 2156 1.0 2347 0.8	27 QUA 0300 1.7 0813 0.2 1609 1.9 2032 0.2	11 QUI 0008 0.7 0415 2.2 0841 -0.3 1549 2.2 2034 0.5 2306 1.1	27 SAB 0338 2.1 0904 -0.1 1647 2.0 2121 0.1
12 QUI 0151 1.9 0736 0.4 1308 2.1 1902 0.3	28 SAB 0202 1.8 0719 0.5 1513 2.1 1953 0.0	12 DOM 0313 1.9 0754 0.1 1436 2.3 1938 0.3 2253 1.0 2358 0.9	28 TER 0315 1.7 0828 0.2 1634 1.9 2051 0.1	12 TER 0354 2.0 0813 0.0 1513 2.2 2002 0.5 2251 1.1	28 QUI 0338 1.8 0856 0.0 1653 1.9 2106 0.1	12 SEX 0106 0.9 0458 2.2 0911 -0.4 1632 2.2 2104 0.4	28 DOM 0409 2.2 0936 -0.2 1708 1.9 2156 0.1
13 SEX 0243 2.0 0751 0.3 1400 2.2 1932 0.2	29 DOM 0254 1.8 0800 0.3 1602 2.1 2028 -0.1	13 SEG 0404 2.0 0821 0.0 1530 2.3 2011 0.3 2313 1.2	29 QUA 0353 1.7 0904 0.0 1713 1.9 2124 0.1	13 QUA 0054 0.8 0441 2.1 0853 -0.2 1606 2.2 2047 0.5 2330 1.3	29 SEX 0356 1.9 0928 -0.1 1721 1.9 2149 0.1	13 SAB 0000 1.3 0202 1.0 0539 2.2 0953 -0.5 1709 2.1 2149 0.3	29 SEG 0451 2.2 1000 -0.2 1736 1.8 2223 0.1
14 SAB 0330 2.0 0806 0.1 1456 2.3 1958 0.1	30 SEG 0338 1.7 0845 0.1 1653 2.0 2104 -0.1	14 TER 0111 0.9 0456 2.0 0900 -0.2 1621 2.3 2056 0.3 2358 1.4	30 QUI 0330 1.7 0947 0.0 1754 1.8 2204 0.1	14 QUI 0153 0.8 0523 2.1 0924 -0.3 1656 2.2 2119 0.4	30 SAB 0426 2.0 0958 -0.1 1736 1.8 2215 0.2	14 DOM 0051 1.4 0300 1.0 0819 2.2 1024 -0.5 1756 2.0 2219 0.3	30 TER 0536 2.2 1032 -0.2 1824 1.7 2300 0.1
15 DOM 0415 2.0 0838 0.0 1549 2.4 2034 0.0	31 TER 0141 1.7 0353 1.7 0917 0.0 1738 1.9 2151 0.0	15 QUA 0213 0.9 0545 1.9 0941 -0.2 1709 2.2 2136 0.3		15 SEX 0009 1.4 0245 0.9 0606 2.1 1004 -0.4 1745 2.1 2200 0.4	31 DOM 0502 2.0 1028 -0.1 1753 1.8 2256 0.2	15 SEG 0132 1.6 0356 1.1 0704 2.1 1104 -0.4 1845 1.8 2258 0.3	31 QUA 0626 2.1 1106 -0.1 1508 1.4 1700 1.3 1938 1.5 2348 0.2
16 SEG 0000 1.2 0121 1.1 0502 2.0 0908 -0.1 1638 2.4 2106 0.0		16 QUI 0039 1.5 0309 0.8 0632 1.9 1015 -0.2 1802 2.1 2211 0.4		16 SAB 0100 1.6 0338 0.9 0654 2.0 1051 -0.3 1826 2.0 2243 0.4		16 TER 0213 1.7 0456 1.1 0756 2.0 1151 -0.2 1619 1.4 1711 1.4 1938 1.6 2339 0.3	

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)		
01 QUI	0724	2.0	0041	0.4	0004	0.3	0108	0.5	0147	0.5	0241	0.6	0217	0.5	0245	0.5
	1151	0.1	0411	1.6	0309	1.2	0447	1.4	0400	0.9	0604	1.0	0445	0.7	0623	0.9
	1534	1.5	0709	0.8	0453	1.1	0738	0.8	0624	0.6	0743	0.9	0647	0.6	0743	0.9
	1808	1.0	1011	1.6	0809	1.9	1054	1.6	1002	1.8	1200	1.7	1028	1.8	1158	1.6
	2054	1.4	1334	0.5	1204	0.4	1400	0.8	1319	1.0	1743	0.9	1353	1.0	1845	0.7
		1706	1.6	1530	1.8	1723	1.4	1615	1.8	2309	1.6	1641	1.6	1641	1.6	
		2004	1.0	1849	0.6	2015	1.0	1949	0.2			2000	0.3	2311	1.9	
		2208	1.2	2153	1.4	2245	1.3	2321	1.7			2336	1.9			
02 SEX	0026	0.4	0126	0.6	0100	0.5	0204	0.7	0258	0.6	0409	0.6	0330	0.5	0343	0.6
	0332	1.2	0456	1.5	0343	1.1	0523	1.2	0409	0.7	1251	1.8	0508	0.6	0704	0.8
	0500	1.1	0754	0.7	0556	0.9	0800	0.8	0658	0.5	1849	0.6	0713	0.6	0758	0.8
	0832	1.9	1109	1.7	0919	1.8	1151	1.7	1058	1.5	2353	1.8	1171	1.8	1453	1.9
	1234	0.3	1424	0.7	1254	0.7	1508	0.9	1411	1.2			1445	1.1	1256	1.7
1602	1.6	1747	1.4	1604	1.8	1802	1.2	1654	1.6			1715	1.4	1919	0.5	
1902	0.8	2043	0.9	1926	0.4	2023	1.0	2021	0.2			2039	0.4			
2204	1.4	2306	1.3	2254	1.5	2326	1.4									
03 SAB	0113	0.6	0221	0.7	0200	0.7	0323	0.7	0011	1.9	0558	0.5	0023	2.0	0004	2.0
	0400	1.1	0538	1.2	0404	1.0	0604	0.9	0717	0.3	1338	1.8	0626	1.8	0521	0.6
	0609	0.9	0819	0.7	0647	0.6	0806	0.8	1149	1.9	1917	0.4	1202	1.8	1356	1.8
	0936	1.8	1208	1.7	1017	1.8	1243	1.8	1513	1.2			1551	1.0	1939	0.4
	1317	0.6	1536	0.9	1347	1.0	1728	0.9	1723	1.4			1756	1.2		
1638	1.6	1826	1.2	1641	1.7			2100	0.3			2108	0.4			
1951	0.5	2100	0.9	2006	0.2											
2311	1.5			2354	1.6											
04 DOM	0215	0.7	0000	1.4	0321	0.8	0004	1.6	0100	2.0	0038	2.0	0111	2.1	0102	2.1
	0419	1.0	0345	0.8	0402	0.8	0553	0.6	0709	0.2	0649	0.3	0626	0.4	0639	0.5
	0658	0.7	0609	0.9	0717	0.4	1326	1.9	1236	1.9	1419	1.9	1254	1.8	1453	1.9
	1038	1.9	0847	0.7	1115	1.9	1853	0.6	2134	0.4	1943	0.3	2147	0.6	1954	0.2
	1408	0.8	1304	1.8	1445	1.2										
1706	1.5	1723	0.9	1709	1.6											
2026	0.4			2051	0.2											
05 SEG	0019	1.6	0051	1.5	0051	1.8	0041	1.8	0151	2.1	0128	2.2	0202	2.1	0200	2.2
	0736	0.5	0619	0.6	0736	0.3	0651	0.4	0711	0.1	0711	0.2	0700	0.2	0717	0.4
	1136	1.9	1358	1.9	1211	2.0	1406	1.9	1319	1.9	1502	1.9	1343	1.8	1543	2.0
	1508	1.1	1853	0.6	1600	1.3	1924	0.4	2200	0.6	2000	0.1	1906	0.6	2011	0.0
	1741	1.4			1732	1.3										
2106	0.3			2123	0.3											
06 TER	0121	1.8	0126	1.7	0143	2.0	0117	2.0	0236	2.2	0219	2.3	0256	2.2	0300	2.3
	0751	0.3	0709	0.4	0734	0.1	0717	0.2	0734	-0.1	0745	0.1	0736	0.1	0758	0.3
	1236	2.0	1445	2.0	1306	2.0	1451	2.0	1406	1.9	1551	2.0	1432	1.8	1102	1.1
	1751	1.2	1932	0.4	2200	0.4	1954	0.2	1941	0.5	2021	0.0	1953	0.3	1241	1.0
	2154	0.4												1630	2.0	
													2045	-0.1		
07 QUA	0215	1.9	0158	1.9	0228	2.1	0158	2.2	0319	2.3	0311	2.4	0345	2.1	0354	2.3
	0751	0.1	0751	0.1	0741	-0.1	0751	0.0	0802	-0.2	0813	0.1	0808	0.0	0839	0.3
	1338	2.1	1517	2.0	1358	2.1	1524	2.0	1454	1.9	1253	1.2	1511	1.8	1141	1.3
	2238	0.5	2004	0.2	2051	0.8	2013	0.1	2004	0.3	2054	-0.1	2024	0.1	1349	0.9
					2239	0.7								1713	2.0	
													2117	-0.2		
08 QUI	0302	2.1	0236	2.1	0309	2.3	0245	2.3	0404	2.2	0402	2.4	0432	2.1	0447	2.3
	0800	-0.2	0811	0.0	0802	-0.3	0809	-0.1	0838	-0.3	0851	0.0	0853	-0.1	0911	0.3
	1430	2.1	1553	2.0	1445	2.1	1600	2.0	1538	1.9	1208	1.4	1404	1.1	1211	1.5
	1956	0.7	2036	0.1	2000	0.5	2041	0.0	2047	0.1	1404	1.1	1556	1.7	1445	0.9
	2141	0.8								1724	1.9	2102	0.0	1802	2.0	
2323	0.7								2126	-0.2			2200	-0.3		
09 SEX	0349	2.2	0308	2.2	0354	2.3	0330	2.4	0453	2.2	0456	2.3	0515	2.0	0536	2.2
	0823	-0.4	0843	-0.2	0830	-0.4	0839	-0.1	0908	-0.3	0926	0.1	0926	0.0	0956	0.3
	1515	2.1	1619	2.0	1523	2.0	1643	1.9	1609	1.8	1247	1.5	1258	1.6	1258	1.6
	2015	0.5	2100	0.0	2032	0.3	2106	-0.1	2117	0.0	1506	1.0	1353	1.7	1539	0.8
	2300	1.0								1815	1.8	2149	-0.1	1853	1.9	
									2206	-0.2			2243	-0.2		
10 SAB	0017	0.9	0351	2.3	0434	2.3	0415	2.4	0113	1.4	0549	2.2	0604	1.8	0623	2.1
	0424	2.3	0902	-0.2	0902	-0.5	0906	-0.1	0202	1.4	1004	0.2	1004	0.0	1039	0.4
	0856	-0.5	1647	2.0	1602	2.0	1728	1.8	0539	2.0	1317	1.7	1436	1.8	1341	1.7
	1600	2.1	2128	0.0	2102	0.1	2145	-0.1	0953	-0.2	1606	0.9	1806	0.9	1634	1.0
	2054	0.3							1411	1.7	1911	1.7	1943	1.8		
2356	1.2							2158	-0.1	2256	-0.1	2321	-0.2			
11 DOM	0117	1.1	0434	2.4	0513	2.2	0504	2.3	0149	1.5	0645	2.0	0251	1.4	0715	1.9
	0504	2.3	0934	-0.2	0939	-0.4	0945	-0.1	0336	1.4	1051	0.4	0408	1.4	0549	0.9
	0924	-0.5	1728	1.8	1645	1.8	1313	1.5	0628	1.8	1400	1.8	0856	1.7	1113	0.5
	1641	2.0	2200	-0.1	2141	0.0	1526	1.2	1026	0.0	1702	0.7	1051	0.2	1419	1.8
	2123	0.2							1443	1.8	2008	1.6	1521	1.8		
								2241	0.0	2341	0.0	2302	0.0	2034	1.8	
12 SEG	0041	1.4	0517	2.3	0113	1.5	0558	2.2	0230	1.5	0745	1.9	0336	1.5	0008	0.0
	0217	1.2	1004	-0.2	0251	1.4	0211	0.1	0456	1.3	1134	0.6	0545	1.4	0811	1.8
	0549	2.2	1400	1.4	0600	2.1	1353	1.7	0724	1.7	1443	1.9	0753	1.6	1158	0.6
	1002	-0.5	1536	1.3	1009	-0.3	1638	1.0	1106	0.1	1403	1.9	1130	0.3	1504	1.8
	1715	1.9	1823	1.7	1454	1.7	1924	1.5	1519	1.8	1756	0.5	1608	1.7	1809	0.6
2200	0.1	2241	0.0	1643	1.6	2302	0.0	2317	0.1	2102	1.6	2347	0.1	2121	1.8	
				2211	0.0											
13 TER	0121	1.5	0608	2.2	0158	1.6	0656	2.0	0315	1.5	0026	0.2	0417	1.4	0100	0.1
	0319	1.3	1045	-0.1	0402	1.4	1102	0.3	0558	1.2	0336	0.9	0638	1.3	0549	0.9
	0632	2.1	1421	1.6	0654	1.9	1423	1.8	0826	1.5	0458	0.9	0849	1.5	0906	1.7
	1043	-0.4	1658	1.2	1054	-0.2	1734	0.7	1156	0.4	0847	1.8	1209			