

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 SEX	0543 2.0 1032 0.2 1749 1.9 2215 -0.2	17 DOM	0704 1.7 1102 0.3 1443 1.7 1738 1.1 2019 1.8	01 SEG	0345 1.1 0723 1.9 1128 0.2 1438 1.3 1604 1.2 1917 2.0 2326 -0.2	17 QUA	0028 -0.1 0454 1.7 1200 0.3 1608 1.7 1900 1.2 2132 1.6	01 SEG	0611 2.1 1028 0.0 1806 2.3 2226 -0.3	17 QUA	0400 1.9 1056 0.1 1526 1.7 1800 1.5 1954 1.6	01 QUI	0215 1.6 0500 1.0 0756 1.6 1136 0.1 1451 1.3 1621 1.2 1930 1.9 2323 0.2	17 SAB	0008 0.2 0451 1.7 1139 0.3 1643 1.5 1900 1.4 2058 1.4
02 SAB	0639 1.9 1106 0.3 1419 1.3 1534 1.3 1845 1.9 2300 -0.1	18 SEG	0009 -0.2 0451 1.4 0858 1.4 0900 1.6 1149 0.4 1528 1.8 1824 1.0 2111 1.7	02 TER	0311 1.3 0511 1.1 0826 1.7 1209 0.4 1509 1.4 1711 1.1 2011 1.9	18 QUI	0111 0.1 0524 1.6 1241 0.4 1653 1.6 1945 1.1 2223 1.5	02 TER	0211 1.3 0351 1.1 0708 1.9 1106 0.1 1421 1.3 1545 1.3 1858 2.1 2304 -0.2	18 QUI	0000 -0.1 0434 1.8 1130 0.2 1604 1.7 1858 1.3 2053 1.5	02 SEX	0256 1.7 0602 0.7 0858 1.5 1231 1.2 1519 1.3 1728 1.1 2026 1.8	18 DOM	0056 0.5 0513 1.5 1217 0.4 1658 1.3 1854 1.2 2200 1.5
03 DOM	0745 1.8 1154 1.3 1456 1.3 1643 1.2 1945 1.8 2351 0.0	19 TER	0100 -0.1 0508 1.4 0702 1.3 0856 1.4 1226 0.5 1611 1.7 1909 0.9 2204 1.7	03 QUA	0009 0.0 0351 1.4 0623 0.9 0930 1.6 1300 0.5 1554 1.3 1808 1.0 2108 1.8	19 SEX	0202 0.3 0602 1.5 1317 0.6 1723 1.4 2004 1.0 2315 1.5	03 QUA	0249 1.4 0508 0.7 0809 1.7 1154 0.2 1502 1.4 1653 1.2 1954 1.9 2351 0.0	19 SEX	0045 0.1 0504 1.7 1204 0.3 1643 1.6 1924 1.2 2151 1.4	03 SAB	0004 0.4 0332 1.8 0656 0.5 0958 1.4 1304 0.4 1558 1.2 1819 0.9 2123 1.7	19 SEG	0145 0.7 0509 1.3 0700 1.2 0902 1.3 1308 0.5 1700 1.1 1904 1.0 2253 1.6
04 SEG	0332 1.1 0519 1.0 0851 1.8 1239 0.6 1523 1.3 1743 1.0 2043 1.8	20 QUA	0151 0.1 0547 1.4 0758 1.2 0953 1.4 1309 0.6 1658 1.6 1956 0.9 2258 1.7	04 QUI	0058 0.2 0423 1.4 0715 0.7 1034 1.6 1354 0.7 1621 1.3 1858 0.8 2204 1.8	20 SAB	0258 0.6 0651 1.3 1404 0.7 1754 1.2 2021 0.9	04 QUI	0321 1.6 0613 0.8 0913 1.5 1241 0.4 1538 1.4 1754 1.0 2051 1.8	20 SAB	0124 0.4 0538 1.6 1251 0.5 1706 1.4 1945 1.1 2245 1.5	04 DOM	0051 0.7 0406 1.9 0738 0.4 1053 1.5 1400 0.6 1623 1.1 1900 0.7 2219 1.7	20 TER	0239 0.9 0458 1.1 0704 1.0 1021 1.4 1409 0.6 1653 0.9 1939 0.7 2345 1.8
05 TER	0038 0.1 0406 1.2 0632 0.9 0954 1.8 1324 0.7 1602 1.3 1832 0.9 2139 1.8	21 QUI	0241 0.3 0628 1.3 0834 1.2 1043 1.3 1400 0.7 1741 1.4 2023 0.8 2349 1.7	05 SEX	0149 0.5 0500 1.4 0804 0.5 1136 1.6 1456 0.8 1658 1.1 1939 0.6 2302 1.8	21 DOM	0008 1.6 0409 0.8 1119 1.3 1504 0.8 1719 1.0 2039 0.8	05 SEX	0032 0.3 0400 1.7 0706 0.6 1015 1.5 1323 0.6 1606 1.3 1845 0.9 2149 1.7	21 DOM	0213 0.7 0602 1.3 1338 0.6 1728 1.2 1954 0.9 2338 1.6	05 SEG	0132 0.9 0445 1.8 0811 0.3 1145 1.6 1508 0.7 1859 0.9 1936 0.5 2313 1.7	21 QUA	0739 0.7 1123 1.6 1524 1.7 1658 0.7 1958 0.6
06 QUA	0124 0.3 0445 1.2 0721 0.7 1053 1.7 1417 0.8 1639 1.2 1909 0.7 2232 1.9	22 SEX	0339 0.5 1128 1.3 1454 0.8 1813 1.2 2054 0.8	06 SAB	0238 0.8 0536 1.4 0854 0.4 1241 1.6 2002 0.5	22 SEG	0100 1.7 0606 0.7 1234 1.4 2032 0.6	06 SAB	0109 0.6 0436 1.7 0758 0.4 1115 1.3 1419 0.8 1643 1.1 1919 0.7 2243 1.7	22 SEG	0319 0.9 0606 1.1 0738 1.0 1047 1.3 1439 0.8 1700 1.0 2000 0.8	06 TER	0219 1.1 0517 1.7 0856 0.3 1236 1.8 1953 0.4	22 QUI	0041 1.9 0800 0.5 1224 1.8 2013 0.4
07 QUI	0217 0.5 0521 1.1 0808 0.5 1153 1.7 1532 0.9 1700 1.0 1951 0.6 2324 1.9	23 SAB	0039 1.7 0456 0.6 1217 1.4 1600 0.8 1856 0.9 2100 0.8	07 DOM	0000 1.8 0335 1.0 0608 1.3 0938 0.4 1343 1.7 2015 0.4	23 TER	0153 1.9 0711 0.5 1339 1.6 2000 0.4	07 DOM	0200 0.8 0506 1.7 0839 0.3 1213 1.6 1545 0.9 1658 0.9 1953 0.5 2339 1.7	23 TER	0030 1.7 0741 0.8 1154 1.5 2019 0.6	07 QUA	0009 1.8 0319 1.2 0554 1.5 0930 0.4 1323 1.9 1939 0.3	23 SEX	0139 2.1 0806 0.4 1324 2.0 1915 0.3
08 SEX	0315 0.7 0602 1.1 0858 0.5 1258 1.7 2009 0.5	24 DOM	0130 1.8 0613 0.5 1311 1.5 1909 0.7	08 SEG	0100 1.9 0502 1.1 0649 1.2 1017 0.5 1438 1.8 2000 0.2	24 QUA	0239 2.0 0754 0.4 1430 1.8 2004 0.2	08 SEG	0254 1.1 0543 1.6 0911 0.3 1311 1.7 2006 0.3	24 QUA	0123 1.9 0745 0.6 1300 1.7 2004 0.4	08 QUI	0104 1.9 0456 1.1 0632 1.2 1004 0.5 1409 2.1 1924 0.0	24 SAB	0236 2.2 0754 0.3 1419 2.2 1934 0.1
09 SAB	0021 1.9 0430 0.8 0653 1.0 0949 0.6 1404 1.8 2004 0.4	25 SEG	0215 1.9 0711 0.4 1354 1.6 1953 0.4	09 TER	0200 1.9 0702 1.0 0834 1.0 1106 0.7 1523 2.0 2009 -0.1	25 QUI	0319 2.2 0817 0.2 1509 2.1 2021 0.0	09 TER	0038 1.8 0400 1.2 0611 1.4 0958 0.4 1402 1.9 2002 0.2	25 QUI	0211 2.1 0756 0.4 1356 2.0 1954 0.2	09 SEX	0158 1.9 0700 0.9 0834 0.9 1047 0.7 1458 2.2 1953 -0.2	25 DOM	0324 2.2 0808 0.1 1508 2.3 2000 -0.1
10 DOM	0123 2.0 0617 0.8 0819 0.9 1053 1.7 1500 1.9 1954 0.2	26 TER	0258 2.0 0758 0.2 1447 1.7 2009 0.3	10 QUA	0256 2.0 0747 0.8 1000 1.0 1200 0.8 1602 2.1 2039 -0.3	26 SEX	0358 2.3 0851 0.1 1556 2.2 2045 -0.2	10 QUA	0138 1.9 1039 0.5 1449 2.0 1956 0.0	26 SEX	0256 2.2 0806 0.2 1449 2.2 2000 0.0	10 SAB	0249 2.0 0743 0.6 1541 2.2 2021 -0.4	26 SEG	0411 2.2 0843 -0.1 1558 2.4 2036 -0.1
11 SEG	0223 2.0 0713 0.7 0951 1.0 1143 0.8 1549 1.9 2017 -0.1	27 QUA	0336 2.1 0834 0.2 1528 1.9 2034 0.1	11 QUI	0345 2.1 0815 0.6 1106 1.2 1258 1.0 1643 2.1 2108 -0.5	27 SAB	0439 2.3 0915 0.0 1639 2.3 2111 -0.3	11 QUI	0228 2.0 0730 0.9 0906 0.9 1117 0.7 1530 2.2 2015 -0.3	27 SAB	0343 2.3 0828 2.1 1536 2.3 2023 -0.2	11 DOM	0328 1.9 0811 0.3 1619 2.2 2100 -0.5	27 TER	0009 1.1 0100 1.1 0500 2.1 0911 -0.2 1645 2.4 2108 -0.1
12 TER	0315 2.1 0758 0.6 1051 1.1 1247 0.9 1630 2.0 2056 -0.3	28 QUI	0411 2.2 0902 0.1 1608 2.0 2056 -0.1	12 SEX	0423 2.1 0856 0.4 1202 1.3 1354 1.1 1721 2.1 2151 -0.6	28 DOM	0523 2.2 0954 0.0 1721 2.3 2151 -0.4	12 SEX	0311 2.0 0800 0.6 1053 1.0 1204 1.0 1609 2.2 2053 -0.5	28 DOM	0426 2.3 0900 -0.1 1617 2.4 2056 -0.3	12 SEG	0400 1.9 0851 0.1 1700 2.1 2138 -0.5	28 QUA	0039 1.3 0223 1.1 0551 1.9 0956 -0.2 1730 2.3 2151 0.0
13 QUA	0402 2.1 0836 0.5 1136 1.3 1345 1.0 1709 2.0 2126 -0.4	29 SEX	0451 2.2 0939 0.1 1654 2.1 2126 -0.2	13 SAB	0502 2.0 0930 0.2 1258 1.5 1453 1.3 1804 2.1 2223 -0.6	29 SAB	0547 1.9 1004 0.2 1349 1.6 1556 1.4 1853 2.0 2304 -0.5	13 SAB	0358 2.1 0839 0.3 1200 1.2 1258 1.2 1653 2.2 2121 -0.6	29 SEG	0511 2.2 0934 -0.1 1702 2.4 2130 -0.3	13 TER	0326 1.8 0923 0.0 1739 1.9 2209 -0.4	29 QUI	0109 1.5 0341 1.0 0645 1.7 1036 -0.1 1815 2.1 2223 0.1
14 QUI	0453 2.1 0906 0.4 1215 1.5 1439 1.1 1754 2.0 2204 -0.5	30 SAB	0536 2.2 1008 0.1 1739 2.1 2204 -0.3	14 DOM	0619 1.7 1047 0.1 1439 1.7 1704 1.4 1945 1.8 2351 -0.4	30 TER	0438 2.0 0908 0.1 1258 1.4 1356 1.4 1732 2.1 2200 -0.6	14 DOM	0438 2.0 0908 0.1 1258 1.4 1356 1.4 1732 2.1 2200 -0.6	30 TER	0108 1.2 0219 1.1 0600 2.0 1006 -0.1 1751 2.3 2204 -0.2	14 QUA	0306 1.9 0956 0.0 1809 1.8 2254 -0.2	30 SEX	0153 1.7 0447 0.9 0743 1.6 1111 0.0 1553 1.2 1908 1.9 2302 0.3
15 SEX	0536 2.0 0951 0.3 1304 1.6 1538 1.1 1839 1.9 2251 -0.4	31 DOM	0624 2.1 1053 0.1 1404 1.3 1500 1.2 1826 2.1 2249 -0.3	15 SEG	0619 1.7 1047 0.1 1439 1.7 1704 1.4 1945 1.8 2351 -0.4	31 QUA	0500 1.9 0949 0.0 1351 1.5 1500 1.5 1811 2.0 2243 -0.5	15 SEG	0500 1.9 0949 0.0 1351 1.5 1500 1.5 1811 2.0 2243 -0.5	31 QUA	0145 1.4 0351 1.1 0656 1.8 1054 -0.1 1413 1.3 1506 1.3 1839 2.1 2249 -0.1	15 QUI	0341 1.9 1028 0.1 1551 1.7 2332 0.0	16 SAB	0413 1.9 1100 0.1 1615 1.6

TERMINAL PORTUÁRIO DA PONTA DO FÉLIX (ESTADO DO PARANÁ) - 2021

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 SAB	0226 1.8 0543 0.7 0839 1.5 1200 0.1 1511 1.2 1658 1.1 2006 1.8 2347 0.5	17 SEG	0021 0.5 0713 1.5 1202 0.3 2115 1.6	01 TER	0006 0.7 0324 1.8 0649 0.5 0954 1.7 1321 0.2 1632 1.0 1815 0.9 2139 1.7	17 QUI	0128 0.7 0400 1.2 0609 0.9 0930 1.8 1328 0.3 1656 1.0 1900 0.8 2239 1.8	01 QUI	0038 0.6 0400 1.7 0702 0.7 1008 1.9 1354 0.1 1700 1.9 1900 1.0 2200 1.6	17 SAB	0156 0.7 0415 1.1 0645 0.8 1000 1.9 1356 0.4 1709 1.2 1954 0.7 2319 1.7	01 DOM	0145 0.6 0515 1.5 0806 0.8 1121 1.7 1504 0.4 1849 1.2 2049 1.1 2309 1.3	17 TER	0008 1.6 0338 0.8 0458 0.9 0745 0.5 1130 1.9 1504 0.9 1754 1.4 2108 0.4
02 DOM	0304 1.9 0626 0.5 0934 1.5 1254 0.3 1549 1.1 1756 0.9 2104 1.7	18 TER	0106 0.7 0409 1.2 0556 1.2 0853 1.5 1258 0.4 1653 1.0 1832 1.0 2213 1.7	02 QUA	0056 0.8 0408 1.8 0724 0.5 1043 1.0 1415 0.3 1713 0.9 1858 0.8 2226 1.7	18 SEX	0223 0.8 0428 1.1 0658 0.8 1024 1.9 1423 0.4 1734 0.9 1953 0.7 2336 1.8	02 SEX	0119 0.7 0447 1.6 0751 0.6 1100 1.9 1447 0.3 1813 1.1 1947 1.0 2254 1.6	18 DOM	0258 0.8 0456 1.0 0721 0.7 1058 1.9 1453 0.6 1751 1.1 2041 0.6	02 SEG	0232 0.7 0600 1.3 0845 0.8 1213 1.7 1609 0.6	18 QUA	0113 1.7 0800 0.4 1228 1.9 1615 1.1 1828 1.2 2158 0.5
03 SEG	0024 0.7 0347 1.9 0708 0.4 1023 1.6 1349 0.4 1617 1.0 1843 0.7 2200 1.7	19 QUA	0202 0.8 0415 1.1 0643 0.9 0958 1.6 1356 0.5 1700 0.9 1909 0.8 2309 1.8	03 QUI	0145 0.8 0454 1.7 0804 0.4 1126 1.9 1515 0.4 1809 0.8 1923 0.8 2315 1.7	19 SAB	0338 0.9 0458 0.9 0738 0.6 1119 2.0 1526 0.5 1817 0.8 2039 0.6	03 SAB	0208 0.7 0528 1.5 0823 0.7 1151 1.9 1545 0.4 1836 1.1 2343 1.5	19 SEG	0024 1.7 0754 0.6 1153 1.9 1554 0.8 1836 1.1 2121 0.6	03 TER	0904 1.4 0330 0.8 0651 1.1 0902 0.8 1308 1.8 1738 0.6	19 QUI	0211 1.8 0756 1.2 1332 0.9 2247 0.6
04 TER	0108 0.9 0423 1.8 0754 0.3 1111 1.7 1449 0.6 1658 0.8 1911 0.6 2256 1.7	20 QUI	0306 0.9 0438 1.0 0715 0.7 1056 1.8 1500 0.5 1723 0.8 1953 0.6	04 SEX	0238 0.9 0539 1.5 0847 0.5 1213 2.0 1628 0.4	20 DOM	0039 1.9 0758 0.5 1215 2.0 1645 0.6 1936 0.8 2121 0.6	04 DOM	0304 0.8 0611 1.3 0900 0.7 1239 1.9 1654 0.4	20 TER	0136 1.7 0802 0.4 1253 2.0 1717 0.9 1941 1.0 2209 0.6	04 QUA	0058 1.4 0619 0.8 0802 0.8 0856 0.8 1400 1.8 1849 0.5	20 SEX	0300 1.9 0800 0.0 1428 2.0 1932 0.9 2119 1.0 2336 0.8
05 QUA	0200 1.0 0502 1.7 0828 0.3 1200 1.9 1604 0.6 1739 0.6 1934 0.5 2349 1.8	21 SEX	0008 1.9 0751 0.6 1153 1.9 1615 0.6 1811 0.6 2028 0.5	05 SAB	0004 1.7 0338 0.9 0626 1.2 0915 0.6 1304 2.0 1745 0.3	21 SEG	0151 1.9 0739 0.4 1317 2.1 1815 0.6 2100 0.8 2215 0.8	05 SEG	0034 1.5 0409 1.8 0708 1.0 0926 0.8 1332 1.9 1804 0.4	21 QUA	0239 1.8 0745 0.2 1356 2.0 1853 0.8 2100 1.0 2308 0.7	05 QUI	0151 1.5 0723 0.5 1453 1.9 1938 0.3	21 SAB	0347 2.1 0821 -0.2 1515 2.1 2002 0.6 2247 1.1
06 QUI	0300 1.0 0547 1.5 0902 0.4 1249 2.0 1747 0.4	22 SAB	0109 2.0 0806 0.5 1249 2.1 1819 0.4	06 DOM	0058 1.7 0458 0.8 0743 1.0 0851 0.8 1356 2.0 1843 0.2	22 TER	0254 1.9 0743 0.2 1417 2.1 1909 0.5 2022 1.0 2338 0.9	06 TER	0123 1.5 0619 0.7 1421 1.9 1902 0.3	22 QUI	0330 1.9 0804 0.0 1456 2.1 1943 0.7 2208 1.1	06 SEX	0234 1.7 0800 0.3 1530 2.0 2011 0.2	22 DOM	0030 0.9 0424 2.1 0856 -0.4 1602 2.1 2043 0.5 2343 1.2
07 SEX	0039 1.8 0408 1.0 0634 1.2 0943 0.5 1338 2.1 1839 0.2	23 DOM	0211 2.0 0738 0.3 1349 2.2 1856 0.3	07 SEG	0149 1.7 0645 0.6 1447 2.0 1924 0.0	23 QUA	0349 1.9 0809 0.0 1513 2.2 1956 0.4 2256 1.1	07 QUA	0206 1.6 0723 0.5 1508 1.9 1953 0.2	23 SEX	0011 0.8 0413 2.0 0838 -0.2 1549 2.1 2015 0.6 2304 1.2	07 SAB	0304 1.8 0830 0.1 1600 2.0 2053 0.1	23 SEG	0123 1.1 0504 2.2 0926 -0.5 1649 2.0 2111 0.3
08 SAB	0126 1.8 0602 0.9 0758 0.9 1009 0.7 1423 2.1 1913 0.0	24 SEG	0308 2.1 0754 0.1 1445 2.3 1938 0.2	08 TER	0236 1.7 0738 0.4 1530 2.0 2006 -0.1	24 QUI	0053 0.9 0438 1.9 0851 -0.2 1604 2.2 2036 0.4 2338 1.3	08 QUI	0251 1.6 0802 0.3 1551 1.9 2028 0.1	24 SAB	0111 0.9 0458 2.0 0908 -0.4 1630 2.1 2058 0.5 2358 1.4	08 DOM	0347 2.0 0853 0.0 1634 2.1 2119 0.1	24 TER	0028 1.4 0219 1.2 0549 2.1 1002 -0.6 1723 1.9 2153 0.2
09 DOM	0213 1.8 0708 0.6 1508 2.1 1956 -0.2	25 TER	0400 2.0 0821 0.0 1538 2.3 2009 0.1 2328 1.1	09 QUA	0104 1.7 0200 1.6 0300 1.7 0809 0.2 1608 1.9 2051 -0.1	25 SEX	0154 0.9 0521 1.9 0923 -0.3 1656 2.1 2108 0.4	09 SEX	0324 1.7 0841 0.2 1623 1.9 2104 0.1	25 DOM	0208 1.0 0539 2.0 0953 -0.4 1711 2.1 2136 0.4	09 SEG	0426 2.1 0915 -0.1 1711 2.1 2156 0.1	25 QUA	0117 1.5 0323 1.3 0632 2.0 1047 -0.5 1802 1.8 2228 0.2
10 SEG	0258 1.8 0754 0.3 1554 2.1 2034 -0.3	26 QUA	0102 1.0 0451 2.0 0900 -0.2 1623 2.3 2053 0.1	10 QUI	0143 1.7 0849 0.1 1641 1.9 2123 0.0	26 SAB	0013 1.5 0251 0.9 0606 1.9 1004 -0.3 1743 2.0 2153 0.4	10 SAB	0351 1.8 0904 0.1 1647 2.0 2145 0.1	26 SEG	0045 1.5 0302 1.1 0621 2.0 1024 -0.4 1758 2.0 2208 0.3	10 TER	0508 2.2 0951 -0.2 1756 2.0 2228 0.1	26 QUI	0208 1.6 0436 1.3 0721 1.9 1121 -0.4 1604 1.6 1849 1.6 2304 0.2
11 TER	0336 1.8 0830 0.2 1634 2.0 2108 -0.3	27 QUI	0004 1.4 0209 1.0 0539 1.9 0941 -0.2 1709 2.2 2128 0.2	11 SEX	0247 1.8 0917 0.1 1702 1.8 2202 0.0	27 DOM	0100 1.6 0347 0.9 0654 1.9 1051 -0.3 1826 1.9 2228 0.4	11 DOM	0436 1.9 0934 0.0 1723 2.0 2211 0.2	27 TER	0124 1.6 0400 1.1 0706 2.0 1106 -0.4 1849 1.8 2253 0.3	11 QUA	0556 2.2 1024 -0.2 1853 1.9 2304 0.2	27 SEX	0258 1.7 0543 1.3 0813 0.8 1204 -0.2 1624 1.6 1941 1.4 2349 0.3
12 QUA	0204 1.8 0900 0.1 1704 1.9 2151 -0.2	28 SEX	0047 1.5 0313 1.0 0630 1.8 1015 -0.2 1800 2.1 2204 0.3	12 SAB	0402 1.8 0949 0.0 1728 1.8 2243 0.2	28 SEG	0145 1.7 0441 0.9 0743 1.8 1128 -0.2 1915 1.8 2306 0.5	12 SEG	0519 1.9 1004 -0.1 1809 1.9 2256 0.2	28 QUA	0213 1.7 0500 1.1 0758 1.9 1154 -0.3 1939 1.6 2332 0.4	12 QUI	0219 1.3 0309 1.2 0651 2.1 1104 -0.2 1502 1.2 1639 1.2 1956 1.7 2354 0.3	28 SAB	0345 1.7 0636 1.1 0909 1.7 1254 0.0 1658 1.6 2049 1.2
13 QUI	0243 1.8 0936 0.0 1724 1.8 2224 -0.1	29 SAB	0119 1.7 0411 0.9 0721 1.7 1100 -0.2 1854 1.9 2249 0.4	13 DOM	0504 1.8 1019 0.0 1817 1.8 2313 0.3	29 TER	0224 1.8 0532 0.9 0832 1.8 1209 -0.1 2009 1.7 2353 0.5	13 TER	0609 1.9 1047 -0.1 1908 1.8 2334 0.3	29 QUI	0304 1.7 0558 1.0 0851 1.8 1236 -0.1 1653 1.4 1824 1.3 2036 1.5	13 SEX	0258 1.3 0424 1.2 0745 2.0 1153 0.0 1534 1.3 1754 1.0 2100 1.6	29 DOM	0026 0.4 0423 1.7 0715 1.0 1004 1.6 1339 0.3 1732 1.5 2023 1.1 2153 1.2
14 SEX	0326 1.8 1004 0.0 1717 1.7 2302 0.1	30 DOM	0202 1.8 0508 0.8 0811 1.7 1151 0.0 1951 1.8 2324 0.6	14 SEG	0609 1.7 1100 0.0 1928 1.7 2358 0.5	30 QUA	0311 1.8 0617 0.8 0919 1.8 1300 0.0 1658 1.1 1804 1.1 2104 1.6	14 QUA	0345 1.2 0706 1.9 1126 -0.1 2013 1.8	30 SEX	0009 0.4 0353 1.7 0651 0.9 0943 1.8 1317 0.1 1717 1.4 1919 1.2 2126 1.4	14 SAB	0038 0.4 0326 1.3 0651 1.1 0934 1.9 1238 0.2 1606 1.4 1858 0.8 2202 1.6	30 SEG	0108 0.6 0502 1.5 0756 0.9 1101 1.6 1428 0.5 1808 1.4 2100 1.1 2251 1.7
15 SAB	0411 1.8 1039 0.1 1806 1.6 2347 0.3	31 SEG	0247 1.9 0600 0.6 0902 1.7 1236 0.1 1556 1.0 1721 1.0 2047 1.7	15 TER	0721 1.7 1151 0.1 2041 1.7	15 TER	0008 0.4 0309 1.3 0453 1.1 0804 1.9 1211 0.0 1604 1.2 1758 1.0 2117 1.7	15 QUI	0009 0.4 0309 1.3 0453 1.1 0804 1.9 1211 0.0 1604 1.2 1758 1.0 2117 1.7	31 SAB	0058 0.5 0438 1.6 0730 0.8 1032 1.8 1408 0.2 1758 1.3 2004 1.1 2219 1.4	15 DOM	0121 0.6 0404 1.2 0626 0.9 0941 1.9 1321 0.4 1645 1.5 1949 0.6 2304 1.6	31 TER	0200 0.7 0545 1.3 0815 0.9 1154 1.6 1534 0.7 1904 1.2 2049 1.1 2344 1.3
16 DOM	0504 1.6 1113 0.2 1958 1.6			16 QUA	0045 0.6 0336 1.2 0513 1.1 0830 1.7 1238 0.2 1636 1.0 1800 1.0 2143 1.8	16 SEX	0100 0.6 0351 1.2 0553 1.0 0904 1.9 1302 0.2 1638 1.2 1900 0.8 2217 1.7	16 SEX	0100 0.6 0351 1.2 0553 1.0 0904 1.9 1302 0.2 1638 1.2 1900 0.8 2217 1.7	16 SEG	0217 0.7 0439 1.1 0706 0.7 1036 1.8 1409 0.7 1715 1.4 2028 0.4				

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 QUA	0300 0.8 0611 1.0 0838 0.8 1251 1.7 1715 0.8	17 SEX	0139 1.9 0753 0.2 1306 1.9 2208 0.5	01 SEX	0758 0.6 1304 1.8 1919 0.6	17 DOM	0149 2.1 0719 0.1 1330 1.9 2213 0.6	01 SEG	0049 2.0 0702 0.3 1406 2.1 1947 0.3	17 QUA	0251 2.2 0736 -0.1 1439 1.8 1939 0.4	01 QUA	0113 2.2 0638 0.4 1441 2.0 1945 0.2	17 SEX	0311 2.0 0753 0.0 1458 1.7 2000 0.3
02 QUI	0034 1.4 0836 0.7 1341 1.8 1849 0.6	18 SAB	0224 2.0 0745 0.0 1400 2.0 2254 0.7	02 SAB	0036 1.7 0721 0.4 1351 2.0 1938 0.4	18 SEG	0234 2.2 0736 -0.1 1415 2.0 1923 0.6 2249 0.8	02 TER	0145 2.2 0717 0.2 1454 2.1 1958 0.1	18 QUI	0336 2.1 0809 -0.2 1513 1.8 2011 0.2	02 QUI	0211 2.3 0715 0.2 1538 2.0 2006 0.0	18 SAB	0400 2.0 0828 0.0 1538 1.7 2043 0.1
03 SEX	0117 1.6 0724 0.5 1424 1.9 1932 0.4	19 DOM	0308 2.1 0802 -0.2 1451 2.0 1953 0.6 2209 0.9 2339 0.9	03 DOM	0126 1.9 0736 0.2 1436 2.1 1956 0.2	19 TER	0315 2.2 0804 -0.3 1500 2.0 1958 0.4	03 QUA	0238 2.3 0743 0.0 1547 2.1 2019 -0.1	19 SEX	0417 2.1 0853 -0.3 1454 1.7 1547 1.7 2053 0.1	03 SEX	0306 2.3 0758 0.2 1109 1.1 1221 1.0 1626 2.0 2043 -0.2	19 DOM	0441 1.9 0904 -0.1 1419 1.7 2113 0.0
04 SAB	0158 1.8 0756 0.3 1502 2.1 2004 0.2	20 SEG	0351 2.2 0830 -0.4 1534 2.0 2017 0.4	04 SEG	0213 2.1 0753 0.1 1517 2.2 2011 0.1	20 QUA	0400 2.2 0839 -0.4 1545 1.9 2036 0.2	04 QUI	0326 2.4 0811 -0.1 1636 2.1 2056 -0.2	20 SAB	0500 1.9 0926 -0.2 1406 1.8 2128 0.0	04 SAB	0358 2.3 0834 0.1 1151 1.3 1347 1.0 1713 2.0 2113 -0.3	20 SEG	0511 1.8 0949 0.0 1526 1.8 2149 0.0
05 DOM	0245 2.0 0809 0.1 1539 2.1 2034 0.1	21 TER	0430 2.2 0902 -0.5 1608 2.0 2056 0.2	05 TER	0300 2.3 0808 -0.1 1558 2.2 2043 0.0	21 QUI	0445 2.1 0909 -0.5 1611 1.8 2106 0.0	05 SEX	0411 2.4 0851 -0.1 1215 1.3 1358 1.1 1724 1.9 2130 -0.2	21 DOM	0539 1.8 1004 -0.1 1449 1.8 2200 0.0	05 DOM	0449 2.3 0908 0.2 1219 1.5 1451 1.0 1804 1.9 2158 -0.3	21 TER	0530 1.8 1019 0.1 1623 1.8 2217 0.0
06 SEG	0326 2.2 0834 -0.1 1617 2.2 2100 0.0	22 QUA	0509 2.2 0943 -0.6 1651 1.9 2132 0.1	06 QUA	0349 2.4 0838 -0.2 1643 2.1 2108 -0.1	22 SEX	0524 2.0 0954 -0.4 1436 1.8 2147 0.0	06 SAB	0500 2.3 0924 2.0 1254 1.5 1808 1.1 1817 1.8 2206 -0.2	22 SEG	0613 1.6 1049 0.1 1536 1.8 2234 0.1	06 SEG	0536 2.1 0951 0.3 1302 1.7 1551 0.9 1856 1.8 2243 -0.2	22 QUA	0536 1.7 1100 0.2 1723 1.8 2253 0.0
07 TER	0406 2.3 0858 -0.2 1656 2.2 2134 0.0	23 QUI	0115 1.5 0242 1.4 0558 2.0 1013 -0.5 1523 1.7 1600 1.7 1713 1.7 2202 0.0	07 QUI	0434 2.4 0906 -0.3 1354 1.2 1732 2.0 2151 -0.2	23 SAB	0221 1.6 0608 1.8 1030 -0.2 1502 1.9 2217 0.0	07 DOM	0553 2.2 1002 0.1 1324 1.7 1611 0.9 1913 1.6 2256 -0.1	23 TER	0428 1.6 1123 0.3 1621 1.7 2306 0.2	07 TER	0623 2.0 1026 0.4 1345 1.8 1647 0.8 1949 1.7 2319 -0.1	23 QUI	0636 1.7 1141 0.4 1832 1.7 2330 0.1
08 QUA	0454 2.4 0928 -0.3 1743 2.0 2204 -0.1	24 SEX	0206 1.6 0402 1.5 0647 1.9 1058 -0.4 1532 1.8 2243 0.1	08 SEX	0517 2.3 0947 -0.2 1319 1.4 1513 1.2 1826 1.8 2224 -0.1	24 DOM	0254 1.6 0509 1.5 0700 1.6 1106 0.0 1539 1.9 2254 0.1	08 SEG	0219 1.2 0304 1.2 0647 2.0 1047 0.3 1404 1.8 1709 0.7 2011 1.5 2341 0.0	24 QUA	0500 1.5 0651 1.5 0806 1.5 1204 0.5 1711 1.5 2353 0.3	08 QUA	0715 1.8 1104 0.5 1421 1.9 1738 0.7 2039 1.7	24 SEX	0804 1.6 1213 0.5 1949 1.7
09 QUI	0539 2.3 1004 -0.3 1400 1.3 1504 1.2 1838 1.9 2251 0.0	25 SAB	0253 1.7 0523 1.4 0743 1.7 1139 -0.1 1600 1.8 2317 0.2	09 SAB	0606 2.2 1021 -0.1 1358 1.6 1636 1.0 1928 1.6 2304 0.0	25 SEG	0334 1.6 0619 1.4 0802 1.5 1154 0.2 1615 1.8 2330 0.3	09 TER	0253 1.1 0419 1.1 0743 1.8 1123 0.5 1447 1.9 1802 0.6 2108 1.5	25 QUI	0553 1.3 0909 1.5 1254 0.6 2008 1.4	09 QUI	0006 0.0 0443 1.0 0811 1.7 1151 0.7 1504 1.9 1819 0.6 2128 1.7	25 SAB	0011 0.2 0541 1.2 0911 1.6 1302 0.6 1558 1.2 1732 1.1 2056 1.7
10 SEX	0209 1.3 0256 1.3 0626 2.2 1047 -0.2 1424 1.4 1645 1.1 1939 1.7 2324 0.1	26 DOM	0336 1.7 0623 1.3 0843 1.5 1217 0.1 1636 1.8 2358 0.3	10 DOM	0221 1.3 0349 1.2 0700 2.0 1102 0.1 1432 1.7 1739 0.8 2032 1.5 2356 0.2	26 TER	0409 1.5 0700 1.3 0904 1.4 1238 0.5 1651 1.6	10 QUA	0023 0.2 0319 1.1 0524 0.9 0843 1.7 1204 0.7 1521 1.9 1853 0.4 2200 1.6	26 SEX	0039 0.4 0506 1.1 0613 1.1 1002 1.6 1341 0.8 1613 1.1 1804 1.1 2126 1.5	10 SEX	0100 0.2 0411 1.0 0553 0.9 0908 1.7 1234 0.8 1549 1.8 1902 0.5 2215 1.8	26 DOM	0102 0.3 0458 1.1 0649 1.0 1011 1.7 1358 0.8 1609 1.1 1826 0.9 2156 1.8
11 SAB	0239 1.3 0404 1.2 0719 2.0 1124 0.0 1500 1.6 1754 0.9 2047 1.5	27 SEG	0411 1.6 0706 1.1 0943 1.5 1304 0.4 1706 1.6	11 SEG	0300 1.3 0454 1.1 0800 1.8 1149 0.4 1508 1.8 1826 0.6 2134 1.5	27 QUA	0008 0.4 0449 1.4 0704 1.2 1000 1.5 1319 0.7 1711 1.4	11 QUI	0113 0.4 0400 1.0 0613 0.7 0939 1.7 1253 0.9 1602 1.9 1928 0.3 2253 1.7	27 SAB	0132 0.5 0517 1.0 0656 0.9 1051 1.7 1439 0.9 1611 1.0 1849 0.8 2224 1.7	11 SAB	0154 0.3 0451 0.9 0647 0.8 1002 1.7 1315 0.8 1628 1.7 1949 0.4 2304 1.9	27 SEG	0158 0.4 0521 1.0 0736 0.8 1111 1.7 1500 0.9 1643 1.0 1908 0.7 2254 1.9
12 DOM	0008 0.3 0309 1.3 0509 1.1 0815 1.9 1206 0.3 1539 1.7 1849 0.6 2151 1.5	28 TER	0041 0.5 0454 1.5 0739 1.0 1039 1.5 1358 0.6 1743 1.4 2056 1.1 2158 1.1	12 TER	0047 0.4 0328 1.2 0553 0.9 0900 1.7 1226 0.7 1549 1.9 1908 0.3 2228 1.5	28 QUI	0100 0.6 0508 1.2 0706 1.0 1053 1.6 1413 0.9 1704 1.1 1858 1.1 2206 1.4	12 SEX	0211 0.5 0428 0.8 0654 0.6 1032 1.7 1341 1.0 1643 1.7 2004 0.3 2338 1.8	28 DOM	0230 0.5 0541 0.8 0738 0.7 1141 1.8 1921 0.6 2319 1.9	12 DOM	0249 0.4 0534 0.8 0719 0.7 1058 1.7 1406 0.9 1708 1.6 2021 0.4 2354 2.0	28 TER	0258 0.5 0556 0.9 0813 0.7 1215 1.8 1943 0.6 2351 2.0
13 SEG	0100 0.5 0351 1.2 0608 0.9 0915 1.8 1256 0.5 1611 1.7 1932 0.4 2251 1.5	29 QUA	0124 0.7 0523 1.2 0754 0.9 1130 1.6 1500 0.8 1806 1.1 1958 1.1 2256 1.3	13 QUA	0139 0.6 0402 1.1 0639 0.7 1000 1.7 1309 0.9 1621 1.9 1956 0.2 2321 1.6	29 SEX	0200 0.7 0538 0.9 0723 0.8 1139 1.7 1906 0.8 2302 1.6	13 SAB	0323 0.6 0502 0.7 0721 1.5 1119 1.8 1436 1.1 1717 1.5 2047 0.3	29 SEG	0343 0.6 0611 0.7 0802 0.6 1238 1.9 1945 0.5	13 SEG	0354 0.5 1149 1.7 1504 0.9 1756 1.3 2100 0.5	29 QUA	0404 0.6 0647 0.9 0900 0.6 1326 1.8 1954 0.4
14 TER	0158 0.7 0413 1.1 0656 0.7 1013 1.8 1343 0.8 1651 1.7 2009 0.3 2349 1.6	30 QUI	0223 0.8 0549 1.0 0758 0.8 1219 1.7 1919 0.9 2348 1.5	14 QUI	0245 0.7 0424 0.9 0709 0.5 1056 1.8 1400 1.1 1658 1.7 2032 0.2	30 SAB	0309 0.7 0445 0.7 0743 0.6 1228 1.9 1932 0.6 2356 1.8	14 DOM	0023 2.0 0719 1.4 1208 1.8 1541 1.1 1800 1.3 2115 0.4	30 TER	0015 2.1 0532 0.5 1341 2.0 1943 0.4	14 TER	0043 2.0 0509 0.4 1236 1.7 1615 0.9 1851 1.1 2136 0.6	30 QUI	0049 2.1 0532 0.7 0800 0.8 0954 0.7 1430 1.9 1943 0.3
15 QUA	0304 0.8 0445 0.9 0730 0.5 1111 1.8 1432 1.1 1721 1.6 2056 0.3	31 DOM	0011 1.8 0736 0.4 1151 1.8 1500 1.2 1734 1.5 2104 0.3	15 SEX	0011 1.8 0736 0.4 1151 1.8 1500 1.2 1734 1.5 2104 0.3	31 DOM	0724 0.5 1317 2.0 1943 0.4	15 SEG	0109 2.1 0624 0.3 1300 1.9 1723 1.0 1858 1.0 2154 0.6	15 QUA	0134 2.0 0615 0.3 1326 1.7 1811 0.7 2015 0.8 2158 0.8	31 SEX	0153 2.2 0653 0.6 0923 0.9 1056 0.8 1524 2.0 2000 0.0		
16 QUI	0047 1.7 0753 0.3 1208 1.8 1534 1.2 1753 1.4 2134 0.3	16 SAB	0100 1.9 0738 0.3 1241 1.9 1617 1.2 1802 1.3 2147 0.4	16 SAB	0100 1.9 0738 0.3 1241 1.9 1617 1.2 1802 1.3 2147 0.4	16 TER	0200 2.1 0700 0.1 1353 1.9 1856 0.7 2102 0.8 2213 0.8	16 QUI	0224 2.0 0704 0.2 1411 1.7 1915 0.5						