

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 TER	0111 0.7 0302 0.7 0636 0.3 1043 0.8 1826 0.4 2300 0.9	17 QUI	0632 0.2 1036 0.9 1841 0.2	01 SEX	0756 0.4 1228 0.9 1858 0.2	17 DOM	0143 1.2 0758 0.2 1241 0.9 2000 -0.1	01 SEX	0258 0.9 0656 0.4 1102 0.8 1800 0.2 2341 0.9	17 DOM	0108 1.2 0656 0.2 1106 0.8 1856 0.0	01 SEG	0009 1.0 0719 0.4 1226 1.0 1836 0.1	17 QUA	0124 1.2 0738 0.3 1300 1.1 2019 0.0
02 QUA	0354 0.7 0721 0.4 1149 0.9 1851 0.3	18 SEX	0049 1.1 0719 0.2 1141 1.0 1921 0.1	02 SAB	0041 1.0 0824 0.4 1317 1.0 1924 0.1	18 SEG	0213 1.3 0845 0.3 1345 1.0 2056 -0.1	02 SAB	0726 0.4 1208 0.9 1832 0.1	18 SEG	0136 1.2 0738 0.3 1234 0.9 1947 -0.1	02 TER	0049 1.1 0743 0.4 1308 1.1 1911 0.1	18 QUI	0151 1.2 0749 0.4 1353 1.2 2115 0.1
03 QUI	0000 1.0 0449 0.7 0806 0.4 1245 1.0 1908 0.2	19 SAB	0136 1.2 0808 0.2 1251 1.0 2009 0.0	03 DOM	0121 1.1 0853 0.5 1400 1.1 1958 0.0	19 TER	0251 1.3 0926 0.4 1428 1.1 2151 -0.1	03 DOM	0028 1.0 0756 0.4 1300 1.0 1900 0.1	19 TER	0158 1.3 0811 0.3 1328 1.1 2039 -0.1	03 QUA	0121 1.2 0738 0.3 1353 1.2 1956 0.0	19 SEX	0217 1.2 0704 0.3 1436 1.2 2213 0.2
04 SEX	0051 1.1 0851 0.5 1332 1.0 1936 0.1	20 DOM	0217 1.3 0902 0.3 1351 1.0 2104 0.0	04 SEG	0202 1.2 0832 0.5 1441 1.2 2038 0.0	20 QUA	0319 1.3 1008 0.5 1508 1.2 2247 0.0	04 SEG	0106 1.1 0811 0.4 1343 1.1 1939 0.0	20 QUA	0221 1.3 0843 0.4 1409 1.2 2134 0.0	04 QUI	0156 1.2 0704 0.3 1426 1.3 2041 0.1	20 SAB	0256 1.1 0704 0.3 1509 1.2 1911 0.4 2058 0.5 2324 0.4
05 SAB	0134 1.1 0604 0.6 0702 0.6 0924 0.5 1411 1.1 2004 0.1	21 SEG	0302 1.3 1000 0.4 1439 1.1 2202 0.0	05 TER	0245 1.2 0721 0.4 1511 1.2 2115 0.0	21 QUI	0354 1.2 0800 0.5 1553 1.2 2011 0.3 2058 0.3 2351 0.1	05 TER	0147 1.2 0813 0.4 1415 1.2 2017 0.0	21 QUI	0253 1.2 0819 0.4 1454 1.2 2228 0.1	05 SEX	0228 1.2 0719 0.3 1502 1.3 2119 0.1	21 DOM	0336 1.1 0726 0.2 1553 1.2 1939 0.4 2215 0.6
06 DOM	0213 1.1 0638 0.5 1456 1.1 2043 0.1	22 TER	0343 1.2 1104 0.5 1521 1.1 2300 0.0	06 QUA	0321 1.2 0751 0.4 1551 1.2 2154 0.0	22 SEX	0426 1.1 0808 0.4 1630 1.2 2024 0.3 2245 0.4	06 QUA	0224 1.2 0721 0.4 1454 1.3 2058 0.0	22 SEX	0323 1.2 0726 0.4 1532 1.2 1945 0.2 2058 0.4 2338 0.2	06 SAB	0258 1.2 0749 0.2 1543 1.3 2154 0.2	22 SEG	0053 0.5 0411 1.0 0802 0.2 1626 1.1 2006 0.4 2315 0.8
07 SEG	0256 1.2 0711 0.4 1530 1.1 2123 0.1	23 QUA	0415 1.2 0811 0.6 1000 0.7 1211 0.6 1604 1.1 2009 0.3 2113 0.3	07 QUI	0358 1.2 0815 0.3 1623 1.1 2234 0.1	23 SAB	0186 0.3 0502 1.1 0839 0.3 1708 1.1 2100 0.3 2349 0.6	07 QUI	0300 1.2 0741 0.3 1526 1.3 2141 0.0	23 SAB	0400 1.1 0751 0.3 1606 1.2 2004 0.3 2236 0.5	07 DOM	0332 1.2 0809 0.2 1613 1.2 2226 0.3	23 TER	0204 0.6 0458 0.9 0841 0.2 1702 1.1 2043 0.4
08 TER	0338 1.2 0751 0.4 1119 0.7 1604 1.1 2200 0.1	24 QUI	0008 0.1 0453 1.1 0821 0.5 1124 0.7 1324 0.7 1653 1.1 2043 0.3 2253 0.4	08 SEX	0432 1.1 0849 0.3 1700 1.1 2309 0.2	24 DOM	0217 0.4 0545 1.0 0911 0.2 1441 0.7 1754 1.0 2130 0.3	08 SEX	0338 1.2 0806 0.3 1602 1.2 2215 0.1	24 DOM	0058 0.4 0441 1.0 0817 0.2 1649 1.1 2034 0.4 2336 0.7	08 SEG	0404 1.1 0830 0.2 1653 1.1 2104 0.4	24 QUA	0002 0.9 0304 0.6 0545 0.8 0919 0.2 1745 1.0 2109 0.4
09 QUA	0411 1.1 0819 0.4 1200 0.7 1306 0.7 1647 1.0 2241 0.1	25 SEX	0123 0.2 0524 1.0 0854 0.5 1234 0.8 1441 0.7 1738 1.0 2113 0.3 2354 0.5	09 SAB	0502 1.1 0913 0.4 1311 0.7 1745 1.0 2209 0.3	25 SEG	0038 0.8 0321 0.4 0621 0.9 0956 0.3 1356 0.7 1547 0.7 1843 0.9 2202 0.4	09 SAB	0404 1.2 0834 0.3 1641 1.2 2243 0.3	25 SEG	0209 0.5 0515 0.9 0858 0.2 1724 1.0 2102 0.4	09 TER	0447 1.0 0851 0.3 1723 1.0 2113 0.5 2347 0.6	25 QUI	0043 1.0 0400 0.5 0628 0.7 1011 0.3 1824 0.9 2147 0.5
10 QUI	0451 1.1 0856 0.4 1230 0.7 1409 0.7 1723 1.0 2332 0.2	26 SAB	0234 0.3 0604 0.9 0924 0.4 1319 0.9 1547 0.7 1819 1.0 2156 0.3	10 DOM	0538 1.0 0945 0.4 1336 0.7 1506 0.7 1821 0.9 2211 0.4	26 TER	0115 0.9 0421 0.5 0709 0.8 1045 0.3 1411 0.7 1628 0.6 1930 0.9 2238 0.5	10 DOM	0439 1.1 0858 0.3 1711 1.1 2128 0.4	26 TER	0017 0.9 0313 0.5 0600 0.9 0938 0.2 1806 1.0 2136 0.4	10 QUA	0158 0.5 0526 0.9 0908 0.3 1202 0.5 1338 0.5 1800 1.0 2123 0.6	26 SEX	0111 1.0 0449 0.5 0726 0.7 1226 0.4 1909 0.9 2213 0.6
11 SEX	0523 1.1 0926 0.4 1302 0.8 1511 0.7 1808 0.9	27 DOM	0047 0.7 0338 0.3 0653 0.9 1008 0.4 1400 0.8 1634 0.7 1908 0.9 2232 0.4	11 SEG	0004 0.5 0202 0.4 0613 1.0 1008 0.4 1347 0.7 1558 0.6 1906 0.9 2239 0.5	27 QUA	0159 0.9 0517 0.5 0811 0.7 1143 0.4 1436 0.6 1702 0.5 2024 0.8 2308 0.6	11 SEG	0509 1.1 0915 0.3 1753 1.0 2145 0.4	27 QUA	0100 1.0 0409 0.5 0653 0.8 1021 0.3 1402 0.6 1523 0.6 1858 0.9 2202 0.5	11 QUI	0000 0.8 0311 0.5 0613 0.8 0943 0.3 1221 0.6 1454 0.4 1851 0.9 2119 0.7	27 SAB	0145 0.9 0523 0.5 0847 0.7 1549 0.4 2006 0.8 2253 0.7
12 SAB	0054 0.3 0602 1.0 1002 0.5 1334 0.8 1604 0.6 1900 0.9 2354 0.5	28 SEG	0130 0.8 0438 0.4 0745 0.8 1102 0.4 1432 0.8 1706 0.6 2004 0.9 2309 0.5	12 TER	0038 0.6 0319 0.4 0702 0.9 1041 0.5 1349 0.7 1634 0.5 2000 0.8 2300 0.7	28 QUI	0232 0.9 0609 0.4 0936 0.7 1309 0.5 1426 0.5 1738 0.3 2141 0.8 2359 0.8	12 TER	0000 0.5 0158 0.5 0553 1.0 0941 0.3 1311 0.6 1421 0.6 1830 0.9 2158 0.6	28 QUI	0136 1.0 0504 0.5 0753 0.7 1123 0.4 1404 0.5 1611 0.5 1951 0.8 2238 0.6	28 DOM	0015 0.9 0411 0.4 0711 0.8 1013 0.4 1256 0.6 1558 0.3 1949 0.8 2106 0.8	28 DOM	0202 0.9 0600 0.4 1000 0.8 1643 0.3 2130 0.8 2347 0.8
13 DOM	0224 0.4 0649 0.9 1039 0.5 1358 0.7 1653 0.5 1956 0.8	29 TER	0209 0.8 0536 0.4 0851 0.8 1206 0.5 1458 0.7 1743 0.5 2104 0.8	13 QUA	0045 0.7 0424 0.4 0800 0.9 1113 0.5 1354 0.7 1702 0.4 2111 0.8 2209 0.8	29 QUA	0017 0.8 0524 0.3 0900 0.9 1202 0.6 1402 0.7 1743 0.3	13 QUA	0019 0.7 0313 0.5 0639 0.9 1006 0.4 1304 0.6 1539 0.5 1911 0.8 2200 0.7	29 SEX	0204 1.0 0553 0.5 0908 0.7 1654 0.4 2053 0.8 2308 0.7	13 SAB	0028 1.0 0506 0.4 0819 0.7 1102 0.5 1324 0.7 1656 0.2	29 SEG	0628 0.4 1058 0.9 1724 0.2 2356 0.9
14 SEG	0336 0.4 0739 0.9 1117 0.5 1404 0.7 1715 0.5 2056 0.8	30 QUA	0000 0.7 0256 0.8 0626 0.4 1008 0.8 1349 0.6 1500 0.6 1804 0.3 2226 0.9	14 QUI	0017 0.8 0524 0.3 0900 0.9 1202 0.6 1402 0.7 1743 0.3	30 SAB	0038 0.8 0617 0.3 1004 0.9 1304 0.7 1409 0.7 1821 0.1	14 QUI	0038 0.8 0417 0.4 0734 0.8 1047 0.4 1323 0.7 1630 0.4 2011 0.8 2139 0.8	30 SAB	0226 0.9 0624 0.4 1036 0.8 1724 0.3 2334 0.9	14 DOM	0045 1.1 0556 0.3 0936 0.8 1202 0.7 1351 0.7 1749 0.1	30 TER	0656 0.3 1147 1.0 1806 0.2
15 TER	0439 0.3 0838 0.9 1211 0.6 1356 0.7 1743 0.4 2226 0.9	31 QUI	0132 0.7 0336 0.8 0711 0.4 1123 0.9 1834 0.2 2352 0.9	15 SEX	0038 1.0 0617 0.3 1004 0.9 1304 0.7 1409 0.7 1821 0.1	31 DOM	0043 0.9 0513 0.3 0839 0.8 1121 0.5 1353 0.7 1713 0.2	15 SEX	0043 0.9 0513 0.3 0839 0.8 1121 0.5 1353 0.7 1713 0.2	31 DOM	0658 0.4 1139 0.9 1758 0.2	15 SEG	0058 1.2 0636 0.3 1051 0.9 1838 0.0		
16 QUA	0538 0.3 0938 0.9 1804 0.3 2354 1.0			16 SAB	0104 1.1 0708 0.2 1117 0.9 1906 0.0			16 SAB	0054 1.1 0606 0.3 0951 0.8 1209 0.7 1408 0.7 1802 0.1			16 TER	0108 1.2 0706 0.3 1200 1.0 1926 0.0		

PORTO DE FLORIANÓPOLIS (ESTADO DE SANTA CATARINA) - 2019

Latitude 27° 35'.3 S

Longitude 048° 33'.4 W

Fuso +03.0 horas

DNPVN

57 Componentes

Nível Médio 0.64 m

Carta 1902

Maio		Junho		Julho		Agosto		
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	
01	0024 1.0 0713 0.3 1234 1.1 1854 0.1	17 SEX 0111 1.1 0706 0.3 1323 1.1 2108 0.2	01 SAB 0045 1.1 0656 0.2 1343 1.1 2013 0.3	17 SEG 0206 1.1 0723 0.2 1445 1.1 1826 0.6 2006 0.6 2254 0.5	01 SEG 0049 1.0 0745 0.1 1421 1.2 2058 0.3	17 QUA 0239 1.1 0823 0.1 1506 1.1 1913 0.5	01 QUI 0209 1.1 0936 0.0 1541 1.3 2206 0.4	17 SAB 0336 1.2 0926 0.1 1556 1.2 2011 0.3
02	0054 1.1 0717 0.3 1317 1.1 1939 0.1	18 SAB 0151 1.1 0628 0.3 1409 1.1 2206 0.4	02 DOM 0113 1.1 0719 0.2 1426 1.2 2102 0.3	18 TER 0254 1.0 0741 0.1 1519 1.1 1908 0.6 2156 0.7 2356 0.6	02 TER 0132 1.1 0838 0.1 1506 1.2 2147 0.3	18 QUI 0315 1.1 0900 0.1 1543 1.2 1951 0.5	02 SEX 0300 1.1 1045 0.0 1608 1.3 2221 0.5	18 DOM 0408 1.1 1017 0.1 1624 1.2 2045 0.3
03	0121 1.1 0639 0.3 1400 1.2 2024 0.2	19 DOM 0226 1.1 0646 0.2 1456 1.2 1851 0.5 2045 0.6 2311 0.5	03 SEG 0149 1.1 0736 0.2 1508 1.2 2151 0.4	19 QUA 0338 1.0 0832 0.2 1556 1.1 1951 0.5 2311 0.7	03 QUA 0217 1.0 0947 0.1 1553 1.2 2230 0.4	19 SEX 0358 1.1 0951 0.1 1611 1.2 2021 0.4	03 SAB 0349 1.1 0851 0.3 1151 0.0 1641 1.2 2053 0.6	19 SEG 0453 1.1 1108 0.2 1566 1.1 2108 0.3
04	0149 1.2 0702 0.2 1445 1.2 2104 0.2	20 SEG 0308 1.0 0719 0.2 1536 1.2 1915 0.5 2202 0.7	04 TER 0230 1.1 0728 0.2 1553 1.2 2238 0.5	20 QUI 0109 0.7 0413 1.0 0949 0.2 1628 1.1 2023 0.4 2358 0.8	04 QUI 0306 1.0 1058 0.1 1624 1.2 2317 0.6	20 SAB 0439 1.0 1047 0.1 1647 1.1 2056 0.4	04 DOM 0434 1.1 0817 0.3 1000 0.4 1251 0.1 1708 1.1 2058 0.5	20 TER 0102 0.7 0215 0.7 0526 1.0 1158 0.3 1723 1.1 2136 0.3
05	0219 1.2 0723 0.2 1519 1.2 2149 0.3	21 TER 0036 0.6 0356 1.0 0800 0.2 1608 1.1 1956 0.5 2306 0.8	05 QUA 0313 1.0 0736 0.2 0911 0.3 1102 0.2 1626 1.2 2347 0.6	21 SEX 0211 0.7 0500 0.9 1108 0.2 1700 1.1 2100 0.4	05 SEX 0358 1.0 0756 0.3 0908 0.3 1202 0.1 1658 1.2 2111 0.7 2334 0.7	21 DOM 0038 0.8 0215 0.7 0511 1.0 1138 0.2 1715 1.1 2123 0.4	05 SEG 0041 0.8 0221 0.7 0511 1.0 0856 0.3 1102 0.5 1351 0.2 1749 1.0 2117 0.4	21 QUA 0113 0.7 0308 0.7 0606 0.9 1021 0.4 1109 0.4 1254 0.4 1758 1.0 2158 0.3
06	0254 1.1 0745 0.2 1558 1.2 2228 0.4	22 QUA 0153 0.6 0439 0.9 0839 0.2 1647 1.1 2026 0.5 2356 0.9	06 QUI 0402 0.9 0800 0.3 0958 0.4 1208 0.2 1702 1.1 2100 0.7 2306 0.7	22 SAB 0302 0.8 0308 0.7 0547 0.9 1200 0.2 1738 1.1 2132 0.4	06 SAB 0143 0.7 0451 0.9 0821 0.3 1006 0.4 1300 0.1 1732 1.1 2106 0.6	22 SEG 0058 0.8 0306 0.7 0558 0.9 1221 0.3 1751 1.0 2154 0.4	06 TER 0102 0.9 0321 0.7 0800 1.0 0934 0.4 1206 0.6 1456 0.3 1823 0.9 2153 0.3	22 QUI 0128 0.7 0356 0.6 0656 0.8 1054 0.5 1238 0.5 1424 0.5 1839 0.9 2213 0.4
07	0338 1.1 0800 0.2 1634 1.2 2047 0.5 2345 0.6	23 QUI 0253 0.6 0517 0.8 0930 0.3 1719 1.0 2100 0.5	07 SEX 0200 0.6 0458 0.9 0826 0.3 1043 0.4 1308 0.2 1741 1.0 2102 0.7 2356 0.8	23 DOM 0058 0.9 0353 0.6 0632 0.8 1249 0.3 1811 1.0 2202 0.5	07 DOM 0013 0.8 0258 0.7 0539 0.9 0904 0.3 1102 0.5 1358 0.2 1806 1.0 2123 0.6	23 TER 0117 0.8 0358 0.8 0649 0.8 1306 0.4 1823 1.0 2215 0.4	07 QUA 0132 0.9 0406 0.7 0653 0.9 1011 0.4 1308 0.7 1604 0.4 1908 0.8 2224 0.4	23 SEX 0134 0.7 0419 0.5 0753 0.8 1145 0.6 1300 0.6 1600 0.5 1923 0.9 2245 0.5
08	0419 1.0 0815 0.2 1053 0.4 1208 0.4 1706 1.1 2058 0.6 2319 0.7	24 SEX 0030 0.9 0341 0.6 0606 0.8 1217 0.3 1800 1.0 2138 0.5	08 SAB 0311 0.6 0553 0.8 0906 0.3 1119 0.5 1408 0.2 1817 0.9 2109 0.7	24 SEG 0426 0.5 0724 0.8 1339 0.3 1856 0.9 2234 0.6	08 SEG 0056 0.9 0356 0.6 0624 0.9 0954 0.4 1204 0.5 1500 0.3 1851 0.9 2156 0.5	24 QUA 0143 0.8 0438 0.5 0741 0.8 1417 0.4 1904 0.9 2243 0.5	08 QUI 0200 0.8 0453 0.6 0749 0.8 1058 0.5 1404 0.8 1709 0.5 2002 0.7 2308 0.5	24 SAB 0134 0.7 0451 0.4 0911 0.8 1706 0.5 2015 0.8 2311 0.6
09	0200 0.6 0506 0.9 0849 0.3 1109 0.5 1317 0.4 1747 1.0 2102 0.7 2353 0.8	25 SAB 0100 0.9 0415 0.5 0702 0.8 1315 0.3 1845 0.9 2206 0.5	09 DOM 0028 0.9 0406 0.6 0651 0.8 0958 0.4 1208 0.5 1511 0.3 1906 0.8 2136 0.7	25 TER 0149 0.8 0502 0.5 0826 0.8 1453 0.4 1945 0.9 2304 0.6	09 TER 0126 0.9 0441 0.6 0717 0.8 1047 0.5 1308 0.6 1606 0.9 1938 0.8 2230 0.6	25 QUI 0154 0.7 0504 0.5 0843 0.8 1604 0.5 1956 0.9 2308 0.6	09 SEX 0221 0.7 0521 0.5 0849 0.8 1147 0.6 1454 0.9 1811 0.5 2123 0.7	25 DOM 0139 0.7 0517 0.3 1158 0.9 1802 0.4 2128 0.8
10	0313 0.6 0600 0.8 0915 0.3 1154 0.5 1424 0.3 1828 0.9 2104 0.7	26 DOM 0128 0.9 0458 0.5 0808 0.8 1426 0.4 1930 0.9 2243 0.6	10 SEG 0058 0.9 0456 0.5 0751 0.8 1100 0.5 1302 0.6 1615 0.2 2006 0.8 2158 0.7	26 QUA 0156 0.8 0539 0.4 0926 0.8 1624 0.4 2039 0.9	10 QUA 0200 0.8 0511 0.5 0815 0.8 1139 0.5 1406 0.7 1711 0.4 2038 0.7 2321 0.6	26 SEX 0145 0.7 0530 0.4 0947 0.8 1713 0.4 2054 0.9	10 SAB 0041 0.6 0234 0.6 0554 0.3 0954 0.8 1236 0.7 1532 0.9 1911 0.4 2324 0.8	26 SEG 0002 0.7 0130 0.7 0558 1.0 1254 1.0 1854 0.3 2321 0.8
11	0009 0.9 0409 0.5 0700 0.7 1002 0.4 1226 0.6 1534 0.3 1923 0.8 2104 0.8	27 SEG 0153 0.8 0632 0.4 0915 0.8 1549 0.3 2026 0.8 2317 0.8	11 TER 0115 0.9 0530 0.5 0851 0.8 1206 0.6 1356 0.6 1713 0.2	27 QUI 0602 0.4 1021 0.9 1730 0.4 2153 0.9	11 QUI 0226 0.7 0549 0.5 0913 0.9 1228 0.6 1500 0.8 1813 0.4 2223 0.7	27 SAB 0004 0.7 0100 0.7 0553 0.3 1100 0.9 1809 0.4 2206 0.9	11 DOM 0617 0.2 1102 0.9 1349 0.8 1602 0.9 2004 0.4	27 TER 0643 0.0 1341 1.2 1943 0.3
12	0026 1.0 0500 0.4 0804 0.7 1100 0.5 1304 0.6 1634 0.2	28 TER 0132 0.8 0602 0.4 1011 0.9 1654 0.3 2330 0.9	12 QUA 0043 0.8 0600 0.4 0949 0.9 1315 0.6 1447 0.6 1811 0.3 2349 0.9	28 SEX 0621 0.3 1119 1.0 1823 0.3 2323 0.9	12 SEX 0609 0.9 1011 0.4 1323 0.7 1549 0.8 1915 0.4 2349 0.9	28 DOM 0615 0.2 1230 1.0 1904 0.3 2334 0.9	12 SEG 0019 0.9 0647 0.2 1232 0.9 2049 0.4	28 QUA 0034 0.9 0726 0.0 1413 1.2 2026 0.3
13	0039 1.0 0543 0.4 0911 0.8 1213 0.6 1539 0.6 1726 0.1	29 QUA 0632 0.3 1102 1.0 1749 0.3 2356 1.0	13 QUI 0623 0.4 1043 0.9 1909 0.3	29 SAB 0639 0.2 1226 1.0 1915 0.3	13 SAB 0639 0.3 1119 0.9 1445 0.7 1626 0.8 2015 0.4	29 SEG 0656 0.1 1338 1.1 1958 0.3	13 TER 0102 1.1 0706 0.1 1332 1.0 2119 0.4	29 QUI 0117 1.0 0817 -0.1 1451 1.3 2106 0.3
14	0039 1.0 0611 0.4 1015 0.9 1817 0.1	30 QUI 0653 0.3 1156 1.0 1839 0.2	14 SEX 0009 1.0 0647 0.3 1147 1.0 2011 0.3	30 DOM 0008 1.0 0702 0.2 1330 1.1 2006 0.3	14 DOM 0034 1.0 0700 0.2 1249 0.9 2108 0.4	30 TER 0036 1.0 0741 0.0 1423 1.2 2049 0.3	14 QUA 0145 1.1 0736 0.0 1409 1.1 2138 0.5	30 SEX 0200 1.1 0915 0.0 1513 1.3 2136 0.4
15	0038 1.0 0641 0.4 1117 1.0 1911 0.1	31 SEX 0021 1.0 0656 0.3 1251 1.1 1926 0.2	15 SAB 0051 1.0 0700 0.3 1258 1.0 2109 0.4		15 SEG 0111 1.0 0724 0.2 1351 1.0 2153 0.5	31 QUA 0123 1.0 0832 0.0 1502 1.3 2132 0.3	15 QUI 0217 1.2 0804 0.0 1451 1.2 1917 0.5	31 SAB 0247 1.2 1024 0.0 1545 1.2 2108 0.5
16	0049 1.1 0658 0.3 1223 1.0 2009 0.2		16 DOM 0126 1.1 0715 0.2 1358 1.1 1854 0.6 2202 0.5		16 TER 0158 1.1 0749 0.1 1434 1.1 2223 0.5		16 SEX 0258 1.2 0843 0.0 1523 1.2 1945 0.4	

Setembro		Outubro		Novembro		Dezembro									
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)								
01 DOM	0326 1.2	17 TER	0419 1.1	01 TER	0349 1.2	17 QUI	0432 1.1	01 DOM	0449 1.0	17 DOM	0039 0.4	01 DOM	0502 1.0	17 TER	0153 0.3
	0847 0.3		0909 0.3		0736 0.3		0828 0.4		0809 0.4		0523 1.0		0838 0.4		0600 0.9
	1139 0.1		1623 1.1		1000 0.6		1623 1.1		1134 1.0		0854 0.6		1208 0.9		0902 0.7
	1609 1.2		2053 0.2		1241 0.3		2045 0.2		1443 0.6		1136 0.8		1509 0.6		1206 0.8
	2013 0.4				1615 1.1				1715 0.9		1439 0.6		1749 0.9		1539 0.6
					2102 0.2				1736 0.8			2151 0.3		2139 0.3	
02 SEG	0406 1.2	18 QUA	0458 1.1	02 QUA	0426 1.1	18 SEX	0504 1.0	02 SAB	0526 0.9	18 SEG	0206 0.4	02 SEG	0547 1.0	18 QUA	0002 0.6
	0802 0.3		0906 0.4		0802 0.3		0856 0.5		0849 0.4		0606 0.9		0911 0.4		0256 0.3
	1000 0.4		1656 1.1		1058 0.7		1304 0.6		1219 1.0		0858 0.7		1256 0.9		0649 0.9
	1245 0.2		2109 0.2		1347 0.4		2104 0.2		1545 0.5		1154 0.8		1602 0.6		0919 0.7
	1649 1.1				1658 1.0				1806 0.8		1554 0.6		1841 0.8		1251 0.9
2030 0.3		2039 0.1		2145 0.3	1832 0.8	2238 0.4	1630 0.6								
						2149 0.3			1906 0.8			1906 0.8		2215 0.4	
03 TER	0453 1.1	19 QUI	0538 1.0	03 QUI	0506 1.0	19 SAB	0545 0.9	03 DOM	0111 0.5	19 TER	0017 0.6	03 TER	0628 0.9	19 QUI	0047 0.6
	0830 0.3		0923 0.4		0836 0.4		0909 0.7		0232 0.3		0309 0.3		0958 0.5		0356 0.2
	1102 0.6		1256 0.5		1153 0.9		1154 0.7		0608 0.9		0704 0.8		1336 0.9		0751 0.8
	1349 0.3				1454 0.5		1441 0.6		0921 0.5		0856 0.8		1501 0.7		1000 0.7
	1719 1.0				1743 0.9		1754 0.9		1304 1.0		1206 0.9		1651 0.5		1326 0.8
2100 0.2		2111 0.2	2128 0.3	1638 0.5	1647 0.5	1938 0.8	1706 0.5								
					1902 0.7	V	1932 0.8		2221 0.5			V		2004 0.8	
					2226 0.4		2221 0.5							2306 0.5	
04 QUA	0102 0.8	20 SEX	0119 0.6	04 SEX	0106 0.7	20 DOM	0026 0.6	04 SEG	0113 0.5	20 QUA	0053 0.7	04 QUA	0254 0.4	20 SEX	0117 0.7
	0247 0.8		0241 0.6		0251 0.6		0241 0.5		0319 0.5		0406 0.2		0719 0.9		0454 0.2
	0536 1.0		0609 0.9		0554 0.9		0623 0.9		0700 0.8		1213 0.9		1051 0.6		0908 0.8
	0902 0.4		0953 0.5		0906 0.4		0909 0.7		1004 0.5		1721 0.4		1406 0.9		1111 0.8
	1202 0.7		1209 0.6		1241 1.0		1200 0.8		1351 1.0		2036 0.8		1721 0.5		1351 0.8
1456 0.4	1438 0.6	1558 0.5	1556 0.5	1715 0.5	2313 0.6	2039 0.8	1743 0.5								
1800 0.9	1809 0.9	1826 0.8	1849 0.8	2006 0.7			2106 0.9								
2136 0.2	2156 0.3	2156 0.2	2200 0.4												
05 QUI	0119 0.8	21 SAB	0102 0.6	05 SAB	0121 0.7	21 SEG	0047 0.6	05 TER	0047 0.5	21 QUI	0108 0.7	05 QUI	0354 0.4	21 SAB	0021 0.7
	0338 0.7		0323 0.5		0339 0.6		0338 0.4		0400 0.4		0500 0.1		1158 0.6		0153 0.7
	0615 0.9		0700 0.8		0643 0.8		0853 0.8		0802 0.8		1211 1.0		1438 0.8		0651 0.2
	0941 0.4		1002 0.7		0947 0.5		1202 0.9		1100 0.6		1758 0.4		1809 0.7		1023 0.8
	1300 0.9		1224 0.7		1324 1.0		1654 0.4		1421 0.9		1756 0.4		1756 0.4		1806 0.4
1602 0.5	1558 0.5	1658 0.5	1951 0.7	1756 0.4	2132 0.8	2151 0.9	2219 0.9								
1851 0.8	1902 0.8	1919 0.7	2234 0.5												
2208 0.3	V	2236 0.4	V												
06 SEX	0147 0.7	22 DOM	0106 0.7	06 DOM	0143 0.6	22 TER	0102 0.7	06 QUA	0441 0.3	22 SEX	0556 0.1	06 SEX	0449 0.3	22 DOM	0647 0.2
	0413 0.6		0406 0.4		0411 0.5		0426 0.2		0915 0.8		1202 1.0		0934 0.9		1121 0.9
	0708 0.8		0821 0.8		0738 0.8		1211 1.0		1232 0.7		1823 0.4		1447 0.7		1839 0.3
	1015 0.5		1211 0.8		1023 0.6		1738 0.4		1453 0.8		2304 1.0		1823 0.4		2336 1.0
	1351 1.0		1700 0.4		1406 1.0		2058 0.7		1823 0.4				1823 0.4		
1704 0.5	2000 0.8	1749 0.5	2309 0.6	2253 0.9		2256 1.0									
1943 0.7	2253 0.5	2032 0.7													
2254 0.4		2341 0.5													
07 SAB	0202 0.7	23 SEG	0119 0.7	07 SEG	0136 0.6	23 QUA	0113 0.7	07 QUI	0515 0.2	23 SAB	0649 0.1	07 SAB	0538 0.3	23 SEG	0741 0.3
	0456 0.4		0454 0.3		0453 0.4		0515 0.1		1032 0.9		1215 1.0		1034 0.9		1213 1.0
	0809 0.8		1221 1.0		0847 0.8		1234 1.1		1856 0.4		1853 0.3		1853 0.3		1906 0.3
	1100 0.6		1753 0.4		1117 0.7		1811 0.3		2339 1.0				2345 1.1		
	1432 1.0		2109 0.7		1447 0.9		2234 0.8								
1802 0.5	2321 0.7	1824 0.4													
2056 0.7		2224 0.8													
2358 0.5															
08 DOM	0204 0.6	24 TER	0134 0.7	08 TER	0517 0.3	24 QUI	0606 0.0	08 SEX	0554 0.2	24 DOM	0000 1.1	08 DOM	0619 0.2	24 TER	0034 1.1
	0523 0.3		0541 0.1		1000 0.8		1254 1.1		1134 1.0		0741 0.1		1126 1.0		0836 0.3
	0917 0.8		1254 1.1		1256 0.7		1851 0.3		1915 0.4		1251 1.1		1904 0.3		1304 1.0
	1153 0.7				1508 0.8		2349 1.0				1915 0.3				1943 0.2
	1506 0.9		1838 0.3		1900 0.4										
1856 0.4	2321 0.8	2336 0.9													
2300 0.8															
09 SEG	0554 0.2	25 QUA	0624 0.0	09 QUA	0549 0.2	25 SEX	0658 -0.1	09 SAB	0013 1.1	25 SEG	0051 1.2	09 SEG	0024 1.1	25 QUA	0119 1.1
	1034 0.8		1321 1.2		1115 0.9		1308 1.2		0632 0.2		0836 0.2		0700 0.2		0938 0.4
	1309 0.8		1915 0.3		1926 0.4		1919 0.3		1224 1.1		1328 1.1		1213 1.0		1354 1.0
	1541 0.8								1934 0.3		1938 0.3		1909 0.3		2011 0.2
	1938 0.4														
10 TER	0002 0.9	26 QUI	0021 1.0	10 QUI	0011 1.1	26 SAB	0034 1.1	10 DOM	0054 1.2	26 TER	0136 1.2	10 TER	0106 1.2	26 QUI	0204 1.1
	0615 0.2		0709 -0.1		0613 0.1		0751 0.0		0704 0.2		0654 0.5		0745 0.3		0602 0.6
	1154 0.9		1353 1.2		1215 1.0		1334 1.2		1302 1.1		1408 1.1		1254 1.1		0758 0.6
	2008 0.4		1958 0.3		1953 0.4		1947 0.3		1813 0.3		1832 0.2		1917 0.2		1049 0.5
															1438 1.1
							2041 0.1								
11 QUA	0045 1.1	27 SEX	0100 1.1	11 SEX	0051 1.2	27 DOM	0111 1.2	11 SEG	0130 1.2	27 QUA	0217 1.2	11 QUA	0153 1.2	27 SEX	0251 1.1
	0643 0.1		0802 -0.1		0647 0.1		0845 0.1		0741 0.2		0826 0.6		0821 0.3		0643 0.5
	1254 1.0		1413 1.2		1302 1.1		1402 1.2		1339 1.1		1104 0.5		1339 1.1		0919 0.7
	2034 0.4		2030 0.3		1956 0.4		1947 0.4		1830 0.2		1454 1.1		1934 0.2		1153 0.6
											1902 0.2				1515 1.1
							2049 0.1								
12 QUI	0115 1.2	28 SAB	0143 1.2	12 SAB	0121 1.2	28 SEG	0156 1.2	12 TER	0208 1.3	28 QUI	0302 1.2	12 QUI	0236 1.2	28 SAB	0328 1.1
	0708 0.0		0900 0.0		0719 0.1		0954 0.2		0749 0.3		0653 0.5		0856 0.4		0715 0.5
	1343 1.1		1445 1.2		1347 1.1		1439 1.1		1409 1.1		0939 0.7		1419 1.1		1023 0.7
	2043 0.4		2049 0.4		1823 0.3		1853 0.3		1904 0.2		1213 0.5		2034 0.2		1247 0.6
											1534 1.0				1558 1.0
					1938 0.1		2123 0.1								
13 SEX	0154 1.2	29 DOM	0221 1.2	13 DOM	0158 1.3	29 TER	0241 1.2	13 QUA	0253 1.2	29 SEX	0347 1.1	13 SEX	0317 1.2	29 DOM	0404 1.1
	0743 0.0		1008 0.1		0749 0.1		0847 0.4		0726 0.3		0721 0.4		0823 0.5		0756 0.4
	1419 1.2		1508 1.2		1419 1.2		0849 0.5		1445 1.1		1032 0.8		1502 1.1		1117 0.8
	1854 0.4		1932 0.4		1854 0.2		1115 0.3		1928 0.1		1313 0.6		1943 0.2		1338 0.7
							1511 1.1				1611 1.0				1639 1.0
			1909 0.2		2019 0.2		2141 0.2								
14 SAB	0228 1.2	30 SEG	0302 1.2	14 SEG	0238 1.3	30 QUA	0321 1.2	14 QUI	0332 1.2	30 SAB	0424 1.1	14 SAB	0400 1.2	30 SEG	0447 1.1
	0817 0.0		0711 0.3		0817 0.2		0706 0.4		0747 0.4		0800 0.4		0817 0.5		0832 0.4
	1456 1.2		0853 0.4		1453 1.2		0954 0.7		1517 1.1		1119 0.9		1000 0.6		1206 0.8
	1921 0.3		1126 0.2		1923 0.2		1232 0.4								