

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 SEX	0000 1.0 0432 0.5 0821 0.8 1009 0.7 1138 0.7 1645 0.3	17 DOM	0609 0.5 1136 1.0 1823 0.3	01 SEG	0026 1.0 0547 0.4 1138 1.0 1817 0.2	17 QUA	0000 1.0 0645 0.3 1238 1.1 1908 0.3	01 QUA	0608 0.3 1206 1.0 1900 0.4	17 SEX	0006 1.0 0656 0.3 1315 1.1 1928 0.4	01 SAB	0030 0.9 0747 0.2 1356 1.1 2034 0.4	17 SEG	0124 1.1 0802 0.0 1434 1.3 2038 0.3
02 SAB	0030 1.1 0528 0.5 1204 0.9 1747 0.2	18 SEG	0009 1.0 0647 0.4 1221 1.1 1902 0.3	02 TER	0039 1.0 0636 0.3 1223 1.1 1911 0.2	18 QUI	0036 1.1 0721 0.2 1317 1.1 1949 0.3	02 QUI	0008 0.9 0704 0.3 1300 1.1 1956 0.4	18 SAB	0051 1.0 0738 0.2 1356 1.2 2009 0.4	02 DOM	0111 1.0 0832 0.1 1419 1.2 2109 0.4	18 TER	0202 1.2 0849 0.0 1504 1.3 2115 0.3
03 DOM	0056 1.1 0617 0.4 1228 1.0 1843 0.1	19 TER	0039 1.1 0719 0.3 1300 1.2 1939 0.2	03 QUA	0053 1.0 0721 0.2 1302 1.2 2004 0.2	19 SEX	0108 1.1 0800 0.2 1356 1.2 2028 0.3	03 SEX	0045 1.0 0756 0.2 1341 1.1 2047 0.4	19 DOM	0130 1.1 0819 0.1 1434 1.2 2054 0.3	03 SEG	0156 1.1 0911 0.1 1451 1.2 2149 0.4	19 QUA	0238 1.2 0932 -0.1 1536 1.3 2156 0.3
04 SEG	0117 1.2 0702 0.3 1256 1.1 1932 0.1	20 QUA	0108 1.1 0753 0.2 1338 1.2 2011 0.2	04 QUI	0113 1.0 0808 0.2 1343 1.2 2056 0.3	20 SAB	0145 1.1 0838 0.1 1434 1.2 2106 0.3	04 SAB	0121 1.0 0845 0.1 1419 1.2 2132 0.4	20 SEG	0208 1.1 0902 0.0 1511 1.3 2136 0.3	04 TER	0236 1.2 0951 0.0 1521 1.2 2217 0.4	20 QUI	0309 1.3 1015 -0.1 1602 1.3 2238 0.3
05 TER	0134 1.2 0747 0.2 1324 1.2 2017 0.1	21 QUI	0139 1.2 0826 0.2 1409 1.3 2049 0.2	05 SEX	0145 1.1 0856 0.1 1421 1.3 2145 0.3	21 DOM	0217 1.1 0915 0.1 1509 1.3 2151 0.4	05 DOM	0202 1.1 0930 0.1 1500 1.2 2211 0.4	21 TER	0247 1.2 0947 0.0 1549 1.3 2217 0.3	05 QUA	0311 1.2 1026 0.1 1556 1.2 2247 0.4	21 SEX	0349 1.3 1102 0.0 1630 1.2 2319 0.3
06 QUA	0153 1.2 0828 0.2 1358 1.3 2104 0.1	22 SEX	0208 1.2 0858 0.2 1445 1.3 2123 0.3	06 SAB	0215 1.1 0941 0.1 1502 1.2 2230 0.4	22 SEG	0254 1.1 0958 0.1 1551 1.2 2236 0.4	06 SEG	0245 1.1 1009 0.1 1538 1.2 2253 0.5	22 QUA	0321 1.2 1034 0.0 1623 1.2 2302 0.4	06 QUI	0353 1.2 1056 0.1 1626 1.2 2313 0.4	22 SAB	0421 1.3 1153 0.1 1658 1.1
07 QUI	0213 1.1 0909 0.2 1434 1.3 2154 0.2	23 SAB	0241 1.2 0932 0.2 1515 1.3 2202 0.3	07 DOM	0256 1.1 1024 0.1 1545 1.2 2317 0.5	23 TER	0328 1.1 1045 0.1 1628 1.2 2324 0.4	07 TER	0323 1.1 1051 0.1 1613 1.2 2330 0.5	23 QUI	0400 1.2 1119 0.0 1658 1.2 2353 0.4	07 SEX	0428 1.2 1128 0.2 1700 1.1 2334 0.5	23 DOM	0004 0.4 0500 1.2 1245 0.2 1726 1.0
08 SEX	0243 1.1 0954 0.2 1509 1.3 2245 0.3	24 DOM	0309 1.2 1006 0.2 1554 1.2 2247 0.4	08 SEG	0334 1.1 1108 0.2 1623 1.1	24 QUA	0406 1.1 1134 0.1 1708 1.1	08 QUA	0404 1.1 1130 0.2 1654 1.1	24 SEX	0439 1.2 1209 0.1 1730 1.1	08 SAB	0504 1.2 1156 0.3 1730 1.1 2334 0.5	24 SEG	0058 0.4 0543 1.1 1347 0.4 1800 0.9 2213 0.6 2309 0.6
09 SAB	0311 1.1 1038 0.2 1551 1.3 2338 0.5	25 SEG	0345 1.1 1049 0.2 1630 1.2 2341 0.5	09 TER	0004 0.6 0411 1.1 1154 0.2 1706 1.1	25 QUI	0019 0.5 0451 1.1 1230 0.2 1754 1.1	09 QUI	0004 0.6 0449 1.1 1204 0.2 1728 1.1	25 SAB	0043 0.4 0519 1.1 1304 0.2 1804 1.0	09 DOM	0543 1.1 1236 0.4 1802 1.0 2321 0.5	25 TER	0200 0.5 0626 1.0 1147 0.7 1458 0.5 1839 0.9 2221 0.6
10 DOM	0349 1.0 1123 0.3 1630 1.2	26 TER	0415 1.1 1139 0.2 1709 1.1	10 QUA	0058 0.6 0458 1.0 1243 0.3 1754 1.0 2147 0.7 2302 0.7	26 SEX	0115 0.5 0536 1.0 1330 0.2 1843 1.0	10 SEX	0047 0.6 0526 1.1 1245 0.3 1806 1.0	26 DOM	0139 0.5 0604 1.1 1404 0.3 1847 0.9	10 SEG	0621 1.0 1336 0.5 1839 0.9	26 QUA	0019 0.6 0311 0.5 0723 0.9 1024 0.7 1254 0.8 1619 0.6 1926 0.8 2256 0.6
11 SEG	0034 0.6 0423 1.0 1213 0.3 1711 1.0 2058 0.7 2254 0.8	27 QUA	0045 0.5 0456 1.0 1243 0.3 1800 1.0	11 QUI	0153 0.7 0547 1.0 1338 0.4 1845 0.9 2217 0.7 2347 0.7	27 SAB	0215 0.5 0624 1.0 1436 0.3 1941 0.9	11 SAB	0138 0.6 0609 1.0 1336 0.4 1851 0.9	27 SEG	0239 0.5 0656 1.0 1513 0.4 1928 0.8 2256 0.7 2356 0.7	11 TER	0232 0.5 0706 0.9 1436 0.6 1919 0.9	27 QUI	0100 0.6 0426 0.4 0856 0.8 1024 0.8 1339 0.9 1747 0.6 2058 0.7 2336 0.7
12 TER	0138 0.7 0502 0.9 1311 0.4 1804 0.9 2111 0.7 2349 0.8	28 QUI	0151 0.6 0543 0.9 1353 0.3 1908 0.9 2111 0.9 2228 0.9	12 SEX	0249 0.7 0641 0.9 1438 0.4 1947 0.9	28 DOM	0313 0.5 0724 0.9 1545 0.3 2106 0.9	12 DOM	0236 0.6 0702 0.9 1439 0.5 1939 0.9	28 TER	0343 0.5 0758 0.9 1634 0.5 2028 0.8 2313 0.7	12 QUA	0341 0.5 0809 0.8 1611 0.6 2019 0.8	28 SEX	0106 0.7 0539 0.4 1404 1.0 1853 0.5 2330 0.8
13 QUA	0243 0.7 0554 0.9 1421 0.4 1906 0.8 2139 0.8	29 SEX	0256 0.6 0641 0.9 1502 0.3 2323 1.0	13 SAB	0345 0.6 0749 0.9 1545 0.4 2104 0.9	29 SEG	0413 0.5 0843 0.9 1654 0.3 2347 0.9	13 SEG	0336 0.6 0802 0.9 1551 0.5 2041 0.9	29 QUA	0045 0.7 0449 0.4 0921 0.9 1117 0.8 1319 0.9 1753 0.5 2200 0.8	13 QUI	0443 0.5 1211 0.8 1724 0.6 2206 0.8	29 SAB	0639 0.2 1408 1.0 1938 0.5
14 QUI	0015 0.8 0349 0.7 0658 0.8 1536 0.4	30 SAB	0358 0.5 0800 0.8 1611 0.3	14 DOM	0436 0.6 0911 0.9 1647 0.4 2226 0.9	30 TER	0511 0.4 1019 0.9 1800 0.3 2338 0.9	14 TER	0432 0.5 0924 0.9 1656 0.5 2200 0.9	30 QUI	0554 0.4 1354 1.0 1856 0.5 2336 0.8	14 SEX	0539 0.4 1254 1.0 1823 0.5 2356 0.9	30 DOM	0024 0.9 0728 0.2 1347 1.1 2011 0.4
15 SEX	0032 0.9 0445 0.6 0832 0.8 1643 0.4 2347 0.9	31 DOM	0000 1.0 0454 0.5 1009 0.9 1717 0.2	15 SEG	0521 0.5 1045 0.9 1741 0.4 2319 0.9	15 SEG	0521 0.5 1045 0.9 1741 0.4 2319 0.9	15 QUA	0521 0.4 1115 0.9 1756 0.5 2313 0.9	31 SEX	0653 0.3 1353 1.0 1951 0.5	15 SAB	0628 0.3 1328 1.1 1911 0.4	31 SEG	0104 1.1 0811 0.1 1402 1.2 2047 0.4
16 SAB	0532 0.6 1026 0.9 1739 0.4 2345 1.0			16 TER	0604 0.4 1151 1.0 1826 0.4			16 QUI	0609 0.4 1228 1.0 1845 0.4			16 DOM	0047 1.0 0715 0.2 1400 1.2 1956 0.4		

PORTO DO RIO DE JANEIRO - ILHA FISCAL (ESTADO DO RIO DE JANEIRO) - 2020

Latitude 22° 53' 8 S

Longitude 043° 10' 0 W

Fuso +03.0 horas

CHM

26 Componentes

Nível Médio 0.69 m

Carta 1515

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 TER	0143 1.2 0851 0.0 1426 1.2 2113 0.3	17 QUI	0221 1.3 0913 -0.1 1508 1.3 2132 0.2	01 QUI	0200 1.3 0854 0.1 1426 1.3 2108 0.2	17 SAB	0232 1.4 0943 0.0 1500 1.2 2147 0.1	01 DOM	0249 1.3 0934 0.2 1456 1.3 2138 0.2	17 TER	0334 1.2 1109 0.4 1534 1.1 2304 0.2	01 TER	0304 1.2 0953 0.3 1502 1.2 2154 0.2	17 QUI	0409 1.1 1149 0.5 1600 1.1 2345 0.2
02 QUA	0219 1.3 0924 0.0 1458 1.3 2141 0.3	& 18 SEX	0254 1.4 0958 -0.1 1534 1.3 2209 0.2	02 SEX	0236 1.3 0926 0.1 1458 1.3 2134 0.2	18 DOM	0306 1.4 1030 0.2 1524 1.2 2228 0.2	02 SEG	0319 1.3 1006 0.3 1524 1.2 2208 0.2	18 QUA	0413 1.2 1202 0.5 1606 1.1	02 QUA	0343 1.2 1034 0.4 1536 1.2 2236 0.2	18 SEX	0458 1.1 1234 0.6 1643 1.1
03 QUI	0258 1.3 0954 0.1 1526 1.3 2206 0.3	Z 19 SAB	0326 1.4 1047 0.0 1558 1.2 2251 0.2	03 SAB	0308 1.3 0956 0.2 1524 1.3 2156 0.2	19 SEG	0347 1.3 1119 0.3 1556 1.1 2315 0.2	03 TER	0356 1.2 1045 0.4 1556 1.2 2236 0.3	19 QUI	0000 0.2 0502 1.1 0947 0.8 1300 0.6 1651 1.0	03 QUI	0419 1.2 1119 0.5 1606 1.1 2323 0.2	19 SAB	0036 0.2 0543 1.0 1317 0.6 1724 1.0
04 SEX	0332 1.3 1026 0.1 1558 1.2 2228 0.3	20 DOM	0402 1.3 1134 0.2 1623 1.1 2336 0.3	04 DOM	0343 1.3 1028 1.3 1554 1.2 2223 0.3	20 TER	0423 1.2 1213 0.5 1624 1.0	04 QUA	0428 1.2 1130 0.5 1623 1.1 2321 0.3	20 SEX	0100 0.3 0554 1.0 0904 0.8 1100 0.8 1400 0.7 1732 1.0	04 SEX	0502 1.1 1209 0.5 1645 1.1	20 DOM	0130 0.3 0628 0.9 1406 0.7 1813 1.0
05 SAB	0404 1.3 1053 0.2 1624 1.2 2241 0.4	21 SEG	0441 1.3 1226 0.4 1654 1.0	05 SEG	0411 1.2 1056 0.3 1619 1.2 2232 0.3	21 QUA	0009 0.3 0506 1.1 0908 0.7 1011 0.7 1315 0.6 1700 1.0 2138 0.4 2258 0.4	05 QUI	0506 1.1 1226 0.5 1656 1.0	21 SAB	0204 0.3 0654 0.9 0938 0.8 1156 0.8 1502 0.7 1826 0.9	05 SAB	0021 0.3 0553 1.0 1308 0.6 1723 1.0	21 SEG	0226 0.4 0719 0.9 1504 0.6 1913 0.9
06 DOM	0439 1.2 1124 0.3 1656 1.1 2238 0.4	C 22 TER	0030 0.4 0519 1.1 1330 0.5 1723 1.0 2147 0.5 2326 0.5	06 TER	0449 1.2 1134 0.4 1651 1.1 2228 0.4	22 QUI	0119 0.4 0558 1.0 0908 0.7 1139 0.8 1428 0.7 1741 0.9 2202 0.5 2349 0.5	06 SEX	0030 0.4 0556 1.0 1336 0.6 1734 0.9	22 DOM	0308 0.4 0809 0.8 1006 0.8 1225 0.8 1606 0.7 1951 0.9	06 DOM	0126 0.3 0653 1.0 1411 0.6 1811 0.9	22 TER	0324 0.4 0821 0.9 1606 0.6 2036 0.9
07 SEG	0511 1.1 1147 0.4 1721 1.1 2232 0.5	23 QUA	0139 0.4 0606 1.0 0943 0.7 1156 0.8 1449 0.6 1800 0.9 2204 0.5	07 QUA	0521 1.1 1232 0.5 1717 1.0 2224 0.4	23 SEX	0236 0.4 0700 0.8 0923 0.8 1224 0.9 1551 0.7 1834 0.8 2247 0.6	07 SAB	0151 0.4 0658 0.9 1449 0.6 1819 0.9	23 SEG	0409 0.4 1004 0.9 1706 0.6 2139 0.9	07 SEG	0234 0.3 0823 0.9 1513 0.6 1917 0.9	23 QUA	0421 0.4 0932 0.9 1704 0.5 2208 0.9
08 TER	0551 1.0 1241 0.5 1754 1.0 2243 0.5	C 24 QUI	0011 0.6 0256 0.4 0704 0.9 0953 0.7 1251 0.9 1608 0.7 1853 0.8 2238 0.6	08 QUI	0604 1.0 1353 0.6 1754 0.9 2354 0.5	24 SAB	0000 0.6 0347 0.4 1300 0.9 1700 0.7 2006 0.8	08 DOM	0300 0.3 1126 0.9 1558 0.6 1939 0.8	24 TER	0506 0.3 1106 0.9 1754 0.5 2300 1.0	08 TER	0339 0.2 1119 1.0 1615 0.5 2100 0.9	24 QUI	0515 0.4 1043 0.9 1756 0.4 2324 1.0
09 QUA	0630 1.0 1111 0.6 1413 0.6 1828 0.9 2302 0.5	V 25 SEX	0047 0.6 0408 0.4 1324 1.0 1734 0.7 2019 0.7 2311 0.7	09 SEX	0211 0.5 0702 0.9 1006 0.8 1149 0.8 1511 0.6 1839 0.8 2343 0.6	25 DOM	0453 0.3 1308 0.9 1758 0.6 2234 0.9	09 SEG	0406 0.3 1202 1.0 1700 0.5 2311 0.9	25 QUA	0556 0.3 1143 1.0 1834 0.4 2356 1.1	09 QUA	0441 0.2 1158 1.0 1713 0.4 2256 1.0	25 SEX	0604 0.4 1139 1.0 1839 0.3
10 QUI	0023 0.6 0253 0.5 0723 0.9 1054 0.7 1217 0.7 1545 0.6 1913 0.8	26 SAB	0039 0.7 0517 0.3 1347 1.0 1832 0.6 2321 0.8	10 SAB	0332 0.4 1209 0.9 1632 0.6 1958 0.8 2339 0.7	26 SEG	0549 0.3 1230 1.0 1838 0.5 2339 1.0	10 TER	0508 0.2 1234 1.1 1753 0.4 2353 1.0	26 QUI	0639 0.3 1219 1.1 1908 0.3	10 QUI	0541 0.2 1228 1.0 1806 0.3 2358 1.1	26 SAB	0019 1.0 0653 0.4 1223 1.0 1915 0.3
11 SEX	0402 0.5 1241 0.9 1700 0.6 2045 0.8	27 DOM	0617 0.2 1332 1.0 1909 0.5	11 DOM	0439 0.3 1239 1.0 1738 0.5 2358 0.8	27 TER	0634 0.2 1230 1.0 1909 0.4	11 QUA	0604 0.1 1258 1.1 1839 0.3	27 SEX	0039 1.1 0719 0.3 1254 1.1 1943 0.2	11 SEX	0639 0.2 1245 1.0 1858 0.2	27 DOM	0102 1.1 0736 0.4 1302 1.1 1954 0.2
12 SAB	0506 0.4 1300 1.0 1804 0.5	28 SEG	0008 1.0 0704 0.2 1315 1.1 1945 0.4	12 SEG	0538 0.2 1302 1.1 1824 0.4	28 QUA	0021 1.1 0713 0.2 1258 1.1 1941 0.3	12 QUI	0028 1.1 0658 0.1 1321 1.2 1921 0.2	28 SAB	0115 1.2 0758 0.3 1326 1.2 2015 0.2	12 SAB	0043 1.1 0736 0.2 1308 1.0 1949 0.2	28 SEG	0143 1.2 0815 0.3 1339 1.1 2030 0.1
13 DOM	0015 0.8 0604 0.2 1324 1.1 1854 0.4	29 TER	0049 1.1 0747 0.1 1332 1.2 2013 0.3	13 TER	0028 1.0 0630 0.1 1328 1.2 1906 0.3	29 QUI	0100 1.2 0751 0.2 1324 1.2 2009 0.2	13 SEX	0102 1.2 0751 0.1 1341 1.2 2002 0.2	29 DOM	0154 1.2 0836 0.3 1400 1.2 2049 0.1	13 DOM	0124 1.2 0828 0.2 1336 1.1 2034 0.1	29 TER	0219 1.2 0856 0.3 1413 1.2 2106 0.1
14 SEG	0045 1.0 0656 0.1 1353 1.2 1936 0.3	30 QUA	0123 1.2 0821 0.1 1400 1.2 2041 0.3	14 QUA	0056 1.1 0719 0.0 1353 1.3 1949 0.2	30 SEX	0139 1.3 0824 0.2 1358 1.2 2039 0.2	14 SAB	0138 1.3 0839 0.1 1404 1.2 2047 0.1	30 SEG	0228 1.2 0911 0.3 1432 1.2 2121 0.1	14 SEG	0206 1.2 0921 0.3 1408 1.1 2119 0.1	30 QUA	0300 1.2 0939 0.3 1451 1.2 2145 0.1
15 TER	0117 1.1 0743 0.0 1417 1.3 2013 0.3	31 SAB	0126 1.2 0808 0.0 1415 1.3 2026 0.2	15 QUI	0126 1.2 0808 0.0 1415 1.3 2026 0.2	31 SAB	0211 1.3 0858 0.2 1426 1.3 2108 0.2	15 DOM	0213 1.3 0930 0.2 1430 1.1 2130 0.1	Z &		15 TER	0249 1.2 1009 0.4 1445 1.1 2206 0.1	31 QUI	0338 1.2 1019 0.4 1523 1.2 2226 0.1
16 QUA	0149 1.2 0828 -0.1 1445 1.3 2053 0.2	& 16 SEX	0200 1.3 0856 0.0 1438 1.3 2104 0.1	16 SEX	0200 1.3 0856 0.0 1438 1.3 2104 0.1	&		16 SEG	0254 1.3 1019 0.3 1500 1.1 2215 0.1		16 QUA	0328 1.2 1100 0.4 1519 1.1 2256 0.1			