

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	0000 0.6 0602 6.0 1206 0.8 1819 6.3	17 SEG 0030 1.2 0645 5.2 1241 1.5 1854 5.5	01 TER	0115 0.1 0738 6.3 1339 0.4 1953 6.6	17 QUI 0123 1.0 0741 5.4 1339 1.2 1954 5.7	01 TER	0011 0.5 0632 6.1 1236 0.6 1849 6.4	17 QUI 0023 1.2 0645 5.4 1243 1.2 1902 5.7	01 SEX	0111 0.1 0724 6.4 1330 0.1 1941 6.6	17 DOM 0126 0.7 0739 6.1 1351 0.5 2002 6.1
02 DOM	0039 0.3 0656 6.2 1300 0.6 1909 6.5	18 TER 0104 1.1 0719 5.3 1313 1.4 1930 5.6	02 QUA	0202 -0.1 0819 6.5 1419 0.2 2034 6.7	18 SEX 0202 0.9 0811 5.6 1415 1.0 2028 5.8	02 QUA	0100 0.2 0715 6.4 1317 0.3 1932 6.6	18 SEX 0104 1.0 0721 5.7 1323 0.9 1941 5.9	02 SAB	0151 0.1 0756 6.5 1402 0.0 2009 6.5	18 SEG 0209 0.6 0817 6.2 1434 0.4 2047 6.1
03 SEG	0128 0.1 0747 6.3 1353 0.4 2000 6.6	19 QUA 0143 1.0 0756 5.3 1353 1.3 2002 5.6	03 QUI	0245 -0.1 0900 6.5 1500 0.1 2109 6.6	19 SAB 0243 0.9 0849 5.7 1458 0.9 2104 5.9	03 QUI	0141 0.0 0756 6.5 1358 0.1 2008 6.7	19 SAB 0149 0.8 0758 5.9 1404 0.7 2017 6.0	03 DOM	0217 0.2 0823 6.4 1436 0.1 2041 6.4	19 TER 0256 0.6 0858 6.3 1515 0.4 2126 6.0
04 TER	0215 0.0 0836 6.4 1438 0.3 2049 6.6	20 QUI 0213 1.0 0826 5.4 1428 1.3 2039 5.7	04 SEX	0317 -0.1 0936 6.4 1538 0.2 2149 6.5	20 DOM 0321 0.9 0924 5.8 1543 0.9 2147 5.8	04 SEX	0215 -0.1 0830 6.5 1434 0.0 2045 6.7	20 DOM 0228 0.7 0836 6.0 1449 0.6 2058 6.0	04 SEG	0251 0.4 0853 6.3 1502 0.3 2106 6.2	20 QUA 0341 0.8 0943 6.2 1602 0.5 2211 5.9
05 QUA	0300 -0.1 0919 6.3 1519 0.4 2132 6.5	21 SEX 0254 1.0 0900 5.5 1506 1.2 2111 5.7	05 SAB	0356 0.2 1008 6.2 1609 0.4 2219 6.3	21 SEG 0406 0.9 1006 5.8 1630 0.9 2230 5.7	05 SAB	0253 0.0 0900 6.5 1504 0.1 2111 6.5	21 SEG 0308 0.7 0911 6.1 1532 0.6 2138 6.0	05 TER	0313 0.6 0915 6.2 1532 0.5 2138 6.0	21 QUI 0424 0.9 1028 6.0 1654 0.7 2306 5.6
06 QUI	0345 0.1 1002 6.2 1602 0.5 2215 6.3	22 SAB 0336 1.1 0939 5.5 1553 1.2 2156 5.6	06 DOM	0428 0.5 1039 6.0 1647 0.7 2254 6.0	22 TER 0456 1.1 1054 5.8 1723 1.0 2323 5.5	06 DOM	0321 0.2 0928 6.4 1539 0.2 2143 6.3	22 TER 0354 0.8 0954 6.1 1615 0.7 2221 5.8	06 QUA	0341 0.9 0947 6.0 1600 0.8 2208 5.7	22 SEX 0515 1.2 1124 5.7 1749 1.0
07 SEX	0423 0.3 1045 6.0 1645 0.7 2256 6.1	23 DOM 0417 1.1 1019 5.6 1643 1.3 2241 5.5	07 SEG	0500 0.8 1111 5.8 1719 1.0 2330 5.7	23 QUA 0551 1.2 1151 5.6 1819 1.2	07 SEG	0353 0.5 0956 6.2 1606 0.5 2211 6.1	23 QUA 0441 1.0 1041 5.9 1706 0.8 2311 5.6	07 QUI	0408 1.2 1017 5.7 1634 1.1 2245 5.3	23 SAB 0013 5.3 0613 1.4 1238 5.4 1853 1.2
08 SAB	0502 0.6 1124 5.8 1723 0.9 2339 5.8	24 SEG 0509 1.2 1108 5.5 1739 1.3 2336 5.4	08 TER	0538 1.2 1149 5.6 1800 1.3	24 QUI 0030 5.3 0651 1.4 1300 5.4 1924 1.3	08 TER	0417 0.8 1024 6.0 1639 0.8 2247 5.7	24 QUI 0532 1.2 1134 5.7 1802 1.1	08 SEX	0443 1.5 1058 5.4 1713 1.5 2330 5.0	24 DOM 0138 5.2 0724 1.6 1400 5.3 2008 1.4
09 DOM	0547 1.0 1204 5.6 1806 1.2	25 TER 0609 1.4 1209 5.4 1845 1.4	09 QUA	0011 5.3 0613 1.6 1232 5.3 1849 1.6	25 SEX 0151 5.1 0758 1.6 1423 5.3 2041 1.4	09 QUA	0451 1.2 1100 5.7 1709 1.2 2323 5.4	25 SEX 0015 5.3 0628 1.5 1243 5.4 1904 1.3	09 SAB	0526 1.9 1147 5.1 1811 1.9	25 SEG 0251 5.3 0847 1.6 1511 5.4 2124 1.3
10 SEG	0023 5.5 0628 1.3 1249 5.4 1858 1.5	26 QUA 0047 5.2 0715 1.5 1326 5.4 1954 1.4	10 QUI	0102 5.0 0704 2.0 1323 5.1 1953 1.9	26 SAB 0317 5.1 0915 1.6 1547 5.4 2204 1.3	10 QUI	0521 1.5 1139 5.4 1754 1.5	26 SAB 0139 5.1 0739 1.7 1409 5.3 2023 1.4	10 DOM	0028 4.7 0636 2.2 1254 4.8 1936 2.1	26 TER 0354 5.5 0958 1.4 1611 5.6 2228 1.1
11 TER	0109 5.3 0719 1.6 1336 5.3 1956 1.7	27 QUI 0213 5.2 0824 1.5 1447 5.4 2104 1.3	11 SEX	0204 4.8 0817 2.2 1428 4.9 2121 2.0	27 DOM 0436 5.4 1039 1.4 1658 5.7 2315 0.9	11 SEX	0009 5.0 0606 1.9 1226 5.1 1853 1.9	27 DOM 0308 5.1 0904 1.7 1536 5.4 2151 1.3	11 SEG	0147 4.5 0804 2.3 1417 4.7 2100 2.0	27 QUA 0447 5.7 1056 1.0 1704 5.9 2319 0.8
12 QUA	0204 5.1 0821 1.9 1428 5.2 2106 1.7	28 SEX 0336 5.3 0938 1.5 1600 5.6 2217 1.1	12 SAB	0319 4.6 0943 2.2 1545 4.9 2230 1.8	28 SEG 0541 5.7 1145 1.0 1758 6.1	12 SAB	0109 4.7 0713 2.3 1336 4.8 2021 2.1	28 SEG 0419 5.4 1023 1.4 1643 5.7 2258 1.0	12 TER	0309 4.6 0928 2.2 1545 4.8 2209 1.8	28 QUI 0534 5.9 1145 0.7 1753 6.1
13 QUI	0302 5.0 0932 1.9 1526 5.1 2213 1.6	29 SAB 0447 5.5 1051 1.3 1708 5.9 2326 0.8	13 DOM	0436 4.7 1049 2.1 1656 5.0 2321 1.6	13 QUA	13 DOM	0232 4.5 0851 2.4 1500 4.7 2147 2.0	29 TER 0517 5.7 1123 1.0 1738 6.0 2353 0.6	13 QUA	0428 4.8 1036 1.8 1658 5.1 2306 1.5	29 SEX 0002 0.6 0613 6.1 1223 0.4 1832 6.2
14 SEX	0408 5.0 1034 1.9 1628 5.2 2306 1.5	30 DOM 0553 5.8 1156 1.0 1808 6.2	14 SEG	0538 4.9 1139 1.8 1754 5.2	14 QUA	14 SEG	0358 4.5 1008 2.2 1623 4.8 2251 1.8	30 QUA 0606 6.1 1209 0.6 1823 6.3	14 QUI	0528 5.2 1130 1.4 1756 5.4 2358 1.2	30 SAB 0045 0.5 0651 6.2 1300 0.3 1908 6.2
15 SAB	0508 5.0 1123 1.8 1724 5.3 2353 1.3	31 SEG 0026 0.4 0649 6.1 1253 0.6 1902 6.5	15 TER	0006 1.4 0624 5.1 1219 1.6 1839 5.4	15 QUA	15 TER	0506 4.8 1106 1.9 1728 5.1 2341 1.5	31 QUI 0036 0.3 0651 6.3 1254 0.3 1904 6.5	15 SEX	0615 5.6 1219 1.0 1843 5.8	
16 DOM	0600 5.1 1202 1.6 1811 5.4		16 QUA	0049 1.2 0704 5.3 1300 1.4 1917 5.6		16 QUA	0602 5.1 1158 1.5 1821 5.4		16 SAB	0045 0.9 0658 5.9 1304 0.7 1923 6.0	

Setembro		Outubro		Novembro		Dezembro									
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)								
01 QUI	0358 1.0 0958 5.7 1621 1.2 2217 5.7	17 SAB	0502 1.1 1111 5.4 1711 1.5 2326 5.4	01 SAB	0436 0.9 1038 5.5 1658 1.3 2256 5.6	17 SEG	0502 1.5 1119 5.0 1713 1.9 2336 5.1	01 TER	0619 1.3 1256 5.1 1854 1.6	17 QUI	0002 4.9 0630 2.0 1245 4.7 1900 2.2	01 QUI	0108 5.5 0709 1.2 1351 5.5 1945 1.4	17 SAB	0024 5.0 0700 1.8 1302 5.0 1936 1.9
		V				V		C							
02 SEX	0449 1.1 1047 5.5 1713 1.3 2309 5.6	18 DOM	0545 1.5 1200 5.0 1756 1.9	02 DOM	0528 1.2 1136 5.2 1756 1.5	18 TER	0556 1.8 1219 4.7 1817 2.2	02 QUA	0128 5.3 0736 1.4 1421 5.2 2011 1.6	18 SEX	0111 4.8 0749 2.0 1356 4.7 2019 2.1	02 SEX	0211 5.5 0815 1.3 1449 5.5 2051 1.3	18 DOM	0138 4.9 0811 1.8 1419 5.0 2053 1.7
03 SAB	0547 1.2 1145 5.3 1811 1.5	19 SEG	0017 5.1 0639 1.9 1302 4.7 1900 2.3	03 SEG	0000 5.4 0632 1.4 1254 5.0 1904 1.7	19 QUA	0043 4.8 0713 2.1 1334 4.5 1947 2.4	03 QUI	0247 5.4 0853 1.3 1524 5.5 2126 1.4	19 SAB	0232 4.8 0902 1.9 1513 4.9 2134 1.8	03 SAB	0309 5.6 0919 1.2 1543 5.7 2154 1.1	19 SEG	0304 5.0 0923 1.6 1538 5.2 2200 1.4
04 DOM	0013 5.4 0653 1.4 1302 5.1 1919 1.7	20 TER	0126 4.8 0806 2.1 1419 4.5 2036 2.4	04 TER	0128 5.2 0749 1.5 1434 5.1 2026 1.7	20 QUI	0202 4.7 0841 2.1 1453 4.6 2108 2.2	04 SEX	0351 5.7 1000 1.1 1619 5.8 2226 1.0	20 DOM	0353 5.0 1006 1.6 1621 5.2 2236 1.4	04 DOM	0406 5.7 1019 1.1 1632 5.8 2249 0.9	20 TER	0419 5.2 1026 1.4 1643 5.5 2300 1.1
05 SEG	0136 5.3 0802 1.4 1436 5.0 2038 1.7	21 QUA	0249 4.8 0932 2.0 1538 4.6 2156 2.2	05 QUA	0302 5.3 0913 1.4 1553 5.4 2151 1.5	21 SEX	0323 4.8 0951 1.9 1604 4.8 2215 1.8	05 SAB	0445 5.9 1056 0.8 1709 6.0 2319 0.7	21 SEG	0456 5.3 1100 1.3 1715 5.5 2328 1.0	05 SEG	0458 5.8 1109 1.0 1717 5.9 2338 0.7	21 QUA	0519 5.5 1123 1.2 1741 5.8 2356 0.8
06 TER	0306 5.3 0923 1.4 1600 5.3 2200 1.5	22 QUI	0402 4.9 1034 1.8 1645 4.8 2253 1.9	06 QUI	0411 5.7 1026 1.0 1653 5.7 2256 1.0	22 SAB	0434 5.1 1047 1.6 1704 5.2 2308 1.4	06 DOM	0532 6.2 1145 0.6 1754 6.2	22 TER	0551 5.6 1153 1.1 1804 5.8	06 TER	0543 5.9 1156 0.9 1800 6.0	22 QUI	0613 5.7 1217 1.0 1832 6.1
07 QUA	0424 5.6 1043 1.0 1708 5.6 2311 1.1	23 SEX	0506 5.1 1121 1.5 1739 5.1 2339 1.5	07 SEX	0509 6.0 1123 0.6 1743 6.1 2349 0.6	23 DOM	0532 5.4 1136 1.3 1753 5.5 2356 1.1	07 SEG	0004 0.3 0613 6.3 1223 0.4 1834 6.3	23 QUA	0015 0.7 0636 5.8 1239 0.9 1851 6.1	07 QUA	0017 0.5 0624 5.9 1238 0.8 1838 6.0	23 SEX	0051 0.5 0704 5.9 1308 0.8 1919 6.3
08 QUI	0528 6.0 1147 0.6 1804 6.0	24 SAB	0558 5.4 1202 1.2 1821 5.4	08 SAB	0600 6.4 1209 0.3 1824 6.4	24 SEG	0615 5.6 1217 1.0 1832 5.8	08 TER	0047 0.2 0654 6.4 1302 0.3 1906 6.4	24 QUI	0102 0.5 0717 6.0 1323 0.8 1934 6.2	08 QUI	0058 0.4 0702 5.9 1309 0.8 1909 6.1	24 SAB	0141 0.3 0756 6.1 1400 0.7 2008 6.4
09 SEX	0006 0.7 0621 6.4 1238 0.2 1854 6.4	25 DOM	0019 1.2 0641 5.6 1243 1.0 1858 5.6	09 DOM	0032 0.2 0645 6.6 1254 0.1 1904 6.6	25 TER	0039 0.8 0658 5.8 1300 0.9 1909 6.0	09 QUA	0119 0.1 0726 6.3 1338 0.4 1938 6.3	25 SEX	0153 0.4 0802 6.0 1408 0.8 2013 6.2	09 SEX	0132 0.5 0736 5.9 1343 0.9 1943 6.0	25 DOM	0228 0.3 0847 6.1 1453 0.6 2100 6.4
10 SAB	0056 0.3 0708 6.7 1317 0.0 1934 6.6	26 SEG	0058 1.0 0717 5.8 1319 0.9 1932 5.8	10 SEG	0109 0.0 0721 6.7 1330 0.0 1941 6.6	26 QUA	0119 0.6 0738 6.0 1343 0.8 1951 6.1	10 QUI	0154 0.1 0758 6.2 1406 0.6 2006 6.3	26 SAB	0238 0.4 0849 6.0 1458 0.8 2102 6.2	10 SAB	0200 0.5 0806 5.8 1408 1.0 2011 5.9	26 SEG	0317 0.2 0936 6.1 1541 0.6 2151 6.3
11 DOM	0139 0.0 0751 6.8 1358 -0.2 2009 6.7	27 TER	0139 0.8 0753 5.9 1358 0.8 2006 5.9	11 TER	0151 -0.1 0756 6.6 1404 0.1 2009 6.5	27 QUI	0202 0.5 0813 6.0 1423 0.8 2028 6.1	11 SEX	0224 0.3 0826 6.0 1436 0.8 2036 6.1	27 DOM	0323 0.5 0936 5.8 1549 0.9 2153 6.0	11 DOM	0232 0.7 0839 5.6 1439 1.2 2045 5.8	27 TER	0406 0.3 1026 6.0 1628 0.7 2243 6.1
12 SEG	0213 -0.1 0826 6.8 1436 -0.1 2047 6.6	28 QUA	0217 0.7 0828 5.9 1439 0.9 2043 6.0	12 QUA	0221 0.0 0826 6.5 1438 0.3 2039 6.4	28 SEX	0249 0.5 0856 5.9 1506 0.9 2108 6.1	12 SAB	0254 0.5 0858 5.8 1500 1.0 2104 5.9	28 SEG	0413 0.6 1028 5.7 1639 1.1 2247 5.8	12 SEG	0300 0.9 0908 5.5 1508 1.3 2117 5.7	28 QUA	0456 0.5 1119 5.9 1715 0.8 2338 5.9
13 TER	0253 -0.1 0900 6.6 1506 0.1 2115 6.5	29 QUI	0300 0.7 0904 5.9 1519 1.0 2121 6.0	13 QUI	0254 0.1 0856 6.3 1504 0.5 2104 6.2	29 SAB	0334 0.6 0941 5.8 1556 1.1 2156 5.9	13 DOM	0323 0.8 0928 5.6 1530 1.3 2138 5.7	29 TER	0508 0.8 1134 5.5 1736 1.2 2354 5.6	13 TER	0336 1.1 0945 5.4 1545 1.4 2156 5.5	29 QUI	0543 0.7 1213 5.8 1808 1.0
14 QUA	0324 0.1 0932 6.4 1541 0.4 2147 6.3	30 SEX	0347 0.8 0949 5.7 1606 1.1 2204 5.8	14 SEX	0321 0.4 0924 6.0 1534 0.8 2134 6.0	30 DOM	0421 0.8 1028 5.5 1649 1.3 2249 5.6	14 SEG	0356 1.1 1004 5.3 1602 1.5 2215 5.5	30 QUA	0606 1.0 1245 5.4 1838 1.3	14 QUA	0409 1.3 1023 5.2 1624 1.6 2239 5.3	30 SEX	0034 5.7 0634 1.0 1306 5.6 1902 1.2
15 QUI	0358 0.4 1002 6.1 1608 0.7 2213 6.0			15 SAB	0353 0.7 0958 5.7 1600 1.2 2206 5.7	31 SEG	0515 1.0 1132 5.3 1747 1.5 2357 5.4	15 TER	0436 1.4 1051 5.1 1649 1.8 2302 5.2			15 QUI	0458 1.5 1106 5.1 1715 1.8 2326 5.1	31 SAB	0128 5.6 0728 1.2 1358 5.5 2002 1.3
16 SEX	0428 0.7 1036 5.8 1641 1.1 2249 5.7			16 DOM	0423 1.1 1034 5.4 1632 1.5 2245 5.4			16 QUA	0524 1.7 1143 4.8 1747 2.1			16 SEX	0554 1.7 1200 5.0 1821 1.9		
								V				V			