

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2021

Latitude 25° 30'.1 S

Longitude 048° 31'.5 W

Fuso +03.0 horas

APPA

54 Componentes

Nível Médio 0.98 m

Carta 1822

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	0551 1.9 1013 0.2 1721 1.5 2228 0.0	17 DOM	0624 1.7 1049 0.2 1445 1.6 1747 1.0 2011 1.4	01 SEG	0656 1.9 1102 0.2 1858 1.5 2328 0.2	17 QUA	0013 0.2 0638 1.5 1139 0.2 1553 1.5 1856 1.0 2104 1.3	01 SEG	0554 2.0 1008 0.0 1754 1.8 2232 0.1	17 QUA	0528 1.7 1038 0.1 1502 1.4 1704 1.3 1926 1.5 2338 0.2	01 QUI	0151 1.1 0402 0.9 0708 1.5 1100 0.1 1856 1.6 2254 0.4	17 SAB	0406 1.4 1115 0.2 1551 1.3 1756 1.2 2021 1.4
02 SAB	0634 1.8 1051 0.3 1821 1.4 2308 0.1	18 SEG	0011 0.1 0654 1.6 1123 0.2 1523 1.6 1838 0.9 2104 1.3	02 TER	0741 1.7 1141 0.3 1551 1.4 1743 1.3 1947 1.4	18 QUI	0058 0.4 0721 1.4 1211 0.3 1623 1.5 1938 0.9 2204 1.2	02 TER	0638 1.9 1045 0.1 1836 1.7 2258 0.2	18 QUI	0536 1.5 1106 0.1 1532 1.4 1804 1.2 2009 1.3	02 SEX	0215 1.3 0521 0.7 0813 1.3 1153 0.3 1947 1.4 2321 0.6	18 DOM	0004 0.6 0400 1.3 0756 1.1 1206 0.4 1626 1.2 1841 1.1 2115 1.3
03 DOM	0713 1.8 1119 0.4 1524 1.3 1711 1.2 1923 1.3 2354 0.2	19 TER	0100 0.2 0728 1.5 1202 0.3 1604 1.6 1917 0.9 2200 1.3	03 QUA	0000 0.4 0832 1.5 1215 0.4 1617 1.3 1841 1.2 2041 1.3	19 SEX	0151 0.6 0843 1.2 1300 0.5 1700 1.3 2006 0.8 2306 1.3	03 QUA	0723 1.6 1115 0.1 1653 1.4 1913 1.5 2321 0.4	19 SEX	0008 0.4 0506 1.3 1147 0.3 1602 1.4 1858 1.1 2108 1.2	03 SAB	0254 1.5 0626 0.5 0930 1.2 1254 0.4 1702 1.1 1811 1.1 2051 1.2 2358 0.8	19 SEG	0047 0.8 0358 1.2 0700 0.9 0936 1.1 1308 0.5 1711 1.0 1858 1.0 2215 1.3
04 SEG	0800 1.7 1158 0.5 1545 1.3 1800 1.1 2021 1.3	20 QUA	0154 0.4 0809 1.4 1247 0.4 1647 1.5 1958 0.8 2258 1.3	04 QUI	0032 0.6 0356 1.0 0609 0.8 0934 1.3 1304 0.5 1658 1.2 1919 1.1 2147 1.2	20 SAB	0258 0.7 1002 1.2 1358 0.6 1741 1.2 2038 0.8	04 QUI	0256 1.1 0511 0.9 0819 1.4 1200 0.3 1613 1.3 1806 1.3 2000 1.3 2354 0.6	20 SAB	0049 0.6 0451 1.2 0704 1.1 0821 1.1 1230 0.4 1641 1.3 1918 1.0 2213 1.2	04 DOM	0328 1.6 0717 0.3 1045 1.3 1409 0.6 1754 1.0 1906 1.0 2204 1.2	20 TER	0134 1.0 0347 1.1 0706 0.7 1034 1.3 1426 0.6 2315 1.4
05 TER	0036 0.4 0853 1.6 1239 0.6 1608 1.2 1843 1.0 2117 1.3	21 QUI	0254 0.5 0911 1.3 1336 0.6 1721 1.3 2028 0.8 2353 1.4	05 SEX	0108 0.8 0411 1.1 0728 0.7 1051 1.3 1409 0.7 1743 1.1 1956 1.0 2300 1.3	21 DOM	0004 1.4 0449 0.8 1108 1.3 1508 0.7 1813 0.9 2054 0.7	05 SEX	0315 1.3 0632 0.7 0930 1.2 1256 0.4 1656 1.3 1909 1.1 2108 1.2	21 DOM	0136 0.8 0443 1.1 0708 0.9 0953 1.1 1326 0.5 1713 1.1 2000 0.9 2317 1.3	05 SEG	0036 1.0 0402 1.6 0802 0.2 1147 1.5 1539 0.5 2341 1.2	21 QUA	0717 0.5 1117 1.5 1643 0.6
06 QUA	0121 0.6 0951 1.5 1324 0.7 1647 1.1 1904 1.0 2213 1.3	22 SEX	0400 0.5 1024 1.3 1443 0.7 1804 1.1 2056 0.7	06 SAB	0200 1.0 0443 1.2 0826 0.5 1204 1.3 1556 0.7 1836 0.9 2008 0.8	22 SEG	0058 1.5 0709 0.6 1204 1.4 1702 0.7 1902 0.7 2049 0.7	06 SAB	0021 1.8 0351 1.4 0732 0.5 1049 1.2 1404 0.6 1738 1.1 1956 0.9 2247 1.2	22 SEG	0723 0.8 1054 1.3 1443 0.6 1758 0.9 2009 0.8	06 TER	0115 1.2 0428 1.4 0843 0.2 1238 1.6 1700 0.4	22 QUI	0019 1.6 0734 0.4 1202 1.7 1834 0.4
07 QUI	0223 0.7 0439 0.8 0645 0.7 1058 1.4 1447 0.8 1719 0.9 1930 0.9 2313 1.4	23 SAB	0039 1.5 0504 0.5 1130 1.4 1611 0.7 1900 0.9 2108 0.7	07 DOM	0009 1.4 0326 0.8 0502 1.2 0913 0.4 1309 1.5 1753 0.6	23 TER	0145 1.6 0741 0.5 1256 1.6 1915 0.5	07 DOM	0100 1.0 0417 1.4 0817 0.4 1158 1.4 1545 0.7 1826 0.9 2006 0.8	23 TER	0017 1.5 0736 0.6 1147 1.4 1643 0.6 1945 0.7	07 QUA	0058 1.4 0909 0.4 1323 1.8 1802 0.2	23 SEX	0123 1.7 0747 0.2 1249 1.8 1919 0.2
08 SEX	0802 0.2 1211 1.4 1711 0.7	24 DOM	0121 1.6 0608 0.5 1223 1.5 1749 0.6	08 SEG	0111 1.5 1000 0.4 1406 1.6 1906 0.3	24 QUA	0228 1.8 0811 0.3 1345 1.7 2000 0.2	08 SEG	0009 1.3 0200 1.2 0441 1.4 0900 0.3 1258 1.5 1724 0.5	24 QUA	0113 1.6 0751 0.4 1228 1.6 1917 0.4	08 QUI	0139 1.5 0924 0.5 1408 1.8 1856 0.0	24 SAB	0215 1.9 0758 0.1 1336 1.9 1956 0.1
09 SAB	0013 1.5 0908 0.6 1323 1.5 1823 0.5	25 SEG	0204 1.7 0704 0.4 1313 1.6 1856 0.4	09 TER	0202 1.7 1041 0.5 1500 1.8 1954 0.1	25 QUI	0309 1.9 0836 0.2 1436 1.7 2038 0.1	09 TER	0117 1.5 0938 0.4 1351 1.7 1841 0.3	25 QUI	0202 1.8 0806 0.2 1315 1.7 1951 0.2	09 SEX	0209 1.6 0736 0.5 1454 1.9 1939 -0.1	25 DOM	0300 2.0 0809 0.0 1430 1.9 2017 0.1
10 DOM	0111 1.7 1006 0.5 1421 1.6 1909 0.3	26 TER	0249 1.8 0753 0.3 1402 1.7 1949 0.3	10 QUA	0249 1.8 0853 0.8 1115 0.6 1551 1.8 2038 -0.1	26 SEX	0353 2.0 0858 0.1 1532 1.8 2108 -0.1	10 QUA	0200 1.6 1002 0.5 1438 1.8 1930 0.0	26 SEX	0247 1.9 0823 0.1 1408 1.8 2023 0.0	10 SAB	0234 1.7 0754 0.2 1539 1.9 2017 -0.2	26 SEG	0345 2.0 0824 0.0 1526 1.9 2038 0.2
11 SEG	0204 1.8 0653 0.8 0806 0.8 1102 0.6 1511 1.7 1958 0.1	27 QUA	0330 1.8 0830 0.3 1453 1.7 2032 0.1	11 QUI	0328 1.8 0817 0.6 1638 1.8 2115 -0.2	27 SAB	0432 2.1 0917 0.1 1624 1.8 2141 -0.1	11 QUI	0236 1.7 0817 0.6 1524 1.9 2011 -0.1	27 SAB	0328 2.0 0838 0.1 1506 1.9 2053 0.0	11 DOM	0256 1.8 0815 0.1 1619 1.9 2058 -0.2	27 TER	0424 2.0 0853 -0.1 1619 1.9 2058 0.3
12 TER	0256 1.8 0724 0.8 0934 0.9 1200 0.7 1602 1.8 2043 0.0	28 QUI	0409 1.9 0904 0.2 1541 1.7 2111 0.0	12 SEX	0408 1.9 0853 0.4 1721 1.8 2156 -0.2	28 DOM	0509 2.1 0945 0.0 1709 1.8 2206 -0.1	12 SEX	0308 1.8 0811 0.4 1608 1.9 2053 -0.3	28 DOM	0406 2.1 0856 0.0 1558 1.9 2113 0.0	12 SEG	0326 1.8 0849 0.0 1658 1.9 2132 -0.2	28 QUA	0509 1.8 0917 -0.1 1708 1.9 2121 0.3
13 QUA	0345 1.9 0806 0.6 1054 1.0 1302 0.8 1656 1.7 2124 -0.1	29 SEX	0453 2.0 0936 0.2 1634 1.7 2153 -0.1	13 SAB	0447 1.9 0923 0.2 1323 1.2 1453 1.2 1804 1.7 2230 -0.2	29 SEG	&	13 SAB	0339 1.8 0841 0.2 1654 1.9 2126 -0.3	29 SEG	0451 2.1 0913 0.0 1649 1.9 2136 0.1	13 TER	0353 1.8 0909 0.0 1739 1.8 2204 -0.1	29 QUI	0038 1.0 0241 0.8 0600 1.6 1000 0.0 1756 1.8 2156 0.4
14 QUI	0430 1.9 0853 0.5 1202 1.1 1413 0.9 1749 1.7 2208 -0.1	30 SAB	0534 2.0 1002 0.1 1724 1.7 2223 0.0	14 DOM	0519 1.8 0958 0.1 1402 1.4 1600 1.2 1849 1.6 2304 -0.1	30 TER	Z	14 DOM	0411 1.9 0908 0.1 1734 1.8 2202 -0.3	30 TER	0532 1.9 0947 0.0 1732 1.9 2158 0.2	14 QUA	0421 1.8 0941 0.0 1811 1.7 2238 0.0	30 SEX	0109 1.3 0400 0.8 0700 1.4 1049 0.1 1845 1.7 2228 0.5
15 SEX	0511 1.8 0930 0.4 1304 1.3 1536 1.0 1838 1.6 2253 -0.1	31 DOM	0609 2.0 1032 0.2 1809 1.6 2258 0.0	15 SEG	0549 1.8 1030 0.1 1441 1.5 1702 1.2 1926 1.5 2341 0.0	31 QUA	&	15 SEG	0439 1.8 0939 0.0 1808 1.8 2236 -0.2	31 QUA	0615 1.7 1015 0.0 1811 1.7 2221 0.3	15 QUI	0439 1.6 1004 0.1 1547 1.3 1854 1.6 2304 0.2		
16 SAB	0553 1.8 1006 0.3 1358 1.5 1647 1.0 1923 1.5 2332 0.0			16 TER	0615 1.7 1102 0.1 1513 1.6 1802 1.1 2009 1.4		16 TER	0506 1.8 1006 0.0 1438 1.4 1600 1.3 1849 1.6 2304 0.0				16 SEX	0436 1.5 1039 0.1 1511 1.3 1658 1.2 1936 1.5 2336 0.4		

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 0156 1.5 0511 0.6 0808 1.3 1147 0.3 1930 1.5 2304 0.6	17 SEG 0338 1.3 1154 0.4 2034 1.5	01 TER 0311 1.7 0654 0.4 1004 1.4 1358 0.3 2036 1.4	17 QUI 0036 0.6 0354 1.2 0641 0.9 0936 1.3 1356 0.5 2130 1.6	01 QUI 0004 0.3 0356 1.7 0717 0.6 1024 1.4 1417 0.3 2019 1.4	17 SAB 0056 0.6 0423 1.2 0656 1.0 0953 1.3 1358 0.6 2202 1.4	01 DOM 0104 0.5 0500 1.3 0809 0.7 1134 1.4 1526 0.6 2126 1.3	17 TER 0258 0.8 0506 0.9 0738 0.7 1128 1.4 1432 1.1 1658 1.2 2056 0.5
02 DOM 0238 1.7 0613 0.4 0921 1.3 1258 0.4 2019 1.4 2347 0.7	18 TER 0013 0.7 0343 1.2 0647 0.9 0906 1.1 1300 0.5 2119 1.5	02 QUA 0015 0.6 0358 1.7 0736 0.4 1100 1.5 1458 0.3 2109 1.3	18 SEX 0113 0.8 0400 1.1 0654 0.8 1021 1.4 1519 0.5 2230 1.5	02 SEX 0049 0.5 0438 1.5 0758 0.6 1113 1.5 1511 0.3 2043 1.4	18 DOM 0149 0.7 0449 1.0 0706 0.9 1047 1.4 1453 0.8 1715 0.8 1936 0.8 2324 1.3	02 SEG 0204 0.7 0536 1.1 0839 0.7 1215 1.5 1626 0.6 2300 1.3	18 QUA 0045 1.4 0736 0.5 1224 1.5 1554 1.2 1724 1.2 2141 0.4
03 SEG 0315 1.7 0704 0.3 1026 1.4 1411 0.4 2117 1.3	19 QUA 0058 0.9 0347 1.1 0654 0.8 1004 1.3 1419 0.5 2211 1.5	03 QUI 0104 0.8 0439 1.4 0808 0.4 1149 1.6 1554 0.3 2153 1.3	19 SAB 0343 0.9 0702 0.7 1106 1.6 1638 0.6 2351 1.5	03 SAB 0139 0.7 0513 1.2 0828 0.6 1202 1.6 1606 0.3 2139 1.3	19 SEG 0717 0.7 1138 1.5 1551 0.9 1745 0.9 2056 0.6	03 TER 0353 0.7 0608 0.8 0851 0.7 1258 1.6 1732 0.6	19 QUI 0147 1.6 0728 0.3 1317 1.7 2217 0.4
04 TER 0023 0.9 0358 1.6 0751 0.2 1123 1.5 1521 0.4 2223 1.2	20 QUI 0158 1.0 0319 1.1 0700 0.6 1056 1.5 1615 0.5 2315 1.5	04 SEX 0213 0.9 0515 1.1 0843 0.5 1228 1.7 1649 0.2 2247 1.4	20 DOM 0708 0.5 1154 1.7 1734 0.6	04 DOM 0309 0.8 0602 1.0 0853 0.7 1245 1.6 1700 0.3 2313 1.4	20 TER 0056 1.4 0715 0.5 1228 1.6 1654 1.0 1813 1.0 2154 0.5	04 QUA 0011 1.4 0609 0.6 1339 1.7 1845 0.6	20 SEX 0236 1.8 0747 0.0 1409 1.8 2258 0.5
05 QUA 0111 1.0 0432 1.4 0823 0.3 1209 1.7 1626 0.3 2336 1.3	21 SEX 0711 0.5 1136 1.6 1743 0.4	05 SAB 0519 0.8 0854 0.7 1308 1.7 1738 0.2 2358 1.4	21 SEG 0109 1.5 0709 0.4 1243 1.8 1809 0.7 1934 0.7 2139 0.6	05 SEG 0526 0.6 0838 0.7 1321 1.7 1756 0.4	21 QUA 0200 1.6 0721 0.3 1323 1.7 1802 1.0 1858 1.0 2243 0.5	05 QUI 0106 1.5 0702 0.4 1421 1.7 1949 0.5	21 SAB 0319 1.9 0817 -0.1 1502 1.8 2334 0.7
06 QUI 0854 0.4 1258 1.8 1723 0.2	22 SAB 0032 1.6 0723 0.3 1215 1.8 1838 0.4	06 DOM 0619 0.5 1351 1.8 1824 0.1	22 TER 0211 1.7 0721 0.2 1336 1.8 1841 0.7 2006 0.8 2251 0.6	06 TER 0034 1.5 0626 0.4 1402 1.7 1849 0.4	22 QUI 0251 1.7 0751 0.1 1419 1.8 1906 1.0 1958 1.0 2328 0.5	06 SEX 0154 1.6 0738 0.2 1508 1.8 2034 0.4	22 DOM 0404 1.9 0853 -0.2 1554 1.9 2041 0.5
07 SEX 0038 1.4 0854 0.6 1341 1.8 1813 0.0	23 DOM 0141 1.7 0732 0.2 1304 1.9 1913 0.4	07 SEG 0100 1.5 0656 0.3 1430 1.8 1909 0.1	23 QUA 0302 1.8 0749 0.1 1436 1.9 1913 0.8 2104 0.9 2351 0.6	07 QUA 0126 1.6 0704 0.3 1447 1.7 1941 0.4	23 SEX 0339 1.8 0824 0.0 1517 1.8 2000 0.9 2134 0.9	07 SAB 0236 1.7 0811 0.1 1556 1.9 2106 0.3	23 SEG 0453 1.9 0924 -0.2 1639 1.9 2109 0.3
08 SAB 0121 1.5 0700 0.4 1419 1.8 1900 -0.1	24 SEG 0236 1.8 0743 0.1 1358 1.9 1934 0.4	08 TER 0143 1.6 0724 0.1 1511 1.8 1958 0.1	24 QUI 0353 1.8 0819 0.0 1536 1.9 1958 0.7 2209 1.0	08 QUI 0206 1.7 0739 0.2 1534 1.7 2028 0.3	24 SAB 0017 0.6 0424 1.8 0904 -0.1 1613 1.9 2041 0.7 2311 1.0	08 DOM 0317 1.8 0851 -0.1 1641 1.9 2132 0.2	24 TER 0538 1.8 1002 -0.2 1717 1.9 2147 0.1
09 DOM 0145 1.6 0723 0.2 1502 1.8 1947 -0.1	25 TER 0319 1.9 0800 0.0 1456 1.9 1956 0.5 2221 0.7 2349 0.6	09 QUA 0221 1.7 0756 0.1 1558 1.8 2043 0.2	25 SEX 0053 0.6 0441 1.7 0902 0.0 1634 1.9 2043 0.7 2323 1.1	09 SEX 0247 1.7 0811 0.1 1617 1.8 2109 0.3	25 DOM 0119 0.8 0511 1.8 0947 -0.1 1704 1.9 2117 0.5	09 SEG 0358 1.8 0921 -0.1 1719 2.0 2158 0.1	25 QUA 0153 1.3 0324 1.2 0617 1.6 1038 -0.1 1753 1.8 2215 0.0
10 SEG 0215 1.7 0754 0.1 1547 1.8 2024 -0.1	26 QUA 0404 1.8 0826 0.0 1556 1.9 2019 0.5 2302 0.9	10 QUI 0256 1.8 0821 0.0 1643 1.8 2117 0.2	26 SAB 0200 0.8 0534 1.6 0949 0.0 1723 1.9 2121 0.6	10 SAB 0321 1.7 0851 0.0 1702 1.9 2145 0.2	26 SEG 0043 1.1 0249 1.0 0604 1.7 1024 -0.1 1749 1.9 2158 0.3	10 TER 0438 1.7 0958 -0.1 1758 2.0 2221 0.1	26 QUI 0221 1.5 0449 1.2 0702 1.5 1111 0.0 1821 1.7 2253 0.0
11 TER 0245 1.8 0817 0.0 1626 1.8 2104 0.0	27 QUI 0106 0.7 0451 1.7 0904 0.0 1653 1.9 2058 0.5 2356 1.1	11 SEX 0328 1.7 0856 0.0 1723 1.8 2156 0.2	27 DOM 0036 1.3 0319 0.8 0630 1.5 1039 0.1 1808 1.8 2204 0.4	11 DOM 0356 1.7 0924 0.0 1745 1.9 2211 0.2	27 TER 0139 1.4 0406 1.0 0658 1.5 1108 0.0 1823 1.8 2236 0.2	11 QUA 0521 1.6 1030 0.0 1838 2.0 2253 0.1	27 SEX 0258 1.6 0551 1.1 0756 1.3 1154 0.2 1845 1.6 2321 0.1
12 QUA 0317 1.8 0847 0.0 1706 1.8 2139 0.0	28 SEX 0224 0.8 0549 1.6 0951 0.0 1743 1.8 2136 0.5	12 SAB 0356 1.7 0926 0.0 1802 1.8 2223 0.2	28 SEG 0136 1.5 0443 0.8 0732 1.4 1132 0.1 1851 1.8 2249 0.3	12 SEG 0430 1.6 1004 0.0 1819 1.9 2243 0.2	28 QUA 0223 1.6 0517 1.0 0754 1.4 1154 0.1 1854 1.7 2308 0.1	12 QUI 0602 1.5 1102 0.1 1913 1.9 2319 0.1	28 SAB 0332 1.6 0643 1.0 0856 1.2 1238 0.4 1909 1.4 2358 0.2
13 QUI 0347 1.8 0909 0.0 1749 1.8 2209 0.1	29 SAB 0051 1.3 0351 0.8 0651 1.4 1041 0.2 1826 1.7 2211 0.5	13 DOM 0413 1.5 1006 0.1 1843 1.8 2258 0.3	29 TER 0224 1.6 0547 0.7 0836 1.3 1226 0.2 1924 1.6 2324 0.3	13 TER 0443 1.5 1049 0.1 1858 1.9 2308 0.2	29 QUI 0304 1.7 0613 0.9 0851 1.3 1241 0.2 1921 1.6 2349 0.2	13 SEX 0353 1.4 0654 1.4 1138 0.3 2000 1.7 2358 0.2	29 DOM 0402 1.5 0715 0.8 0958 1.2 1326 0.6 1939 1.3
14 SEX 0409 1.6 0943 0.1 1824 1.7 2243 0.2	30 DOM 0141 1.6 0500 0.7 0758 1.3 1145 0.3 1909 1.6 2256 0.5	14 SEG 0349 1.4 1054 0.2 1919 1.7 2324 0.4	30 QUA 0309 1.7 0638 0.6 0934 1.3 1321 0.3 1954 1.5	14 QUA 0347 1.4 1130 0.2 1938 1.8 2343 0.3	30 SEX 0349 1.7 0702 0.8 0949 1.3 1332 0.4 1941 1.5	14 SAB 0404 1.4 0521 1.2 0802 1.3 1206 0.5 1545 0.9 1711 0.9 2054 1.5	30 SEG 0039 0.4 0436 1.4 0753 0.7 1058 1.3 1430 0.8 2132 1.2
15 SAB 0413 1.5 1013 0.1 1904 1.6 2309 0.4	31 SEG 0226 1.7 0600 0.5 0902 1.3 1253 0.3 1954 1.5 2338 0.5	15 TER 0334 1.3 1147 0.3 2000 1.7	15 QUI 0349 1.3 0604 1.2 0749 1.3 1213 0.3 2013 1.7	15 QUI 0349 1.3 0604 1.2 0749 1.3 1213 0.3 2013 1.7	31 SAB 0023 0.3 0421 1.5 0745 0.7 1045 1.3 1428 0.5 2013 1.4	15 DOM 0038 0.4 0426 1.3 0658 1.1 0911 1.2 1251 0.7 1558 1.1 1851 0.8 2200 1.3	31 TER 0126 0.6 0502 1.2 0809 0.7 1151 1.4 1551 0.8 2254 1.2
16 DOM 0345 1.4 1100 0.2 1949 1.5 2345 0.5	16 QUA 0000 0.5 0343 1.3 0623 1.0 0836 1.2 1247 0.4 2045 1.6	16 QUA 0000 0.5 0343 1.3 0623 1.0 0836 1.2 1247 0.4 2045 1.6	16 SEX 0011 0.4 0402 1.3 0634 1.1 0854 1.3 1304 0.5 2102 1.6	16 SEX 0011 0.4 0402 1.3 0634 1.1 0854 1.3 1304 0.5 2102 1.6	16 QUA 0124 0.6 0456 1.1 0715 0.9 1023 1.3 1334 0.9 1623 1.2 2000 0.6 2321 1.2	16 SEG 0124 0.6 0456 1.1 0715 0.9 1023 1.3 1334 0.9 1623 1.2 2000 0.6 2321 1.2	

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2021

Latitude 25° 30'.1 S

Longitude 048° 31'.5 W

Fuso +03.0 horas

APPA

54 Componentes

Nível Médio 0.98 m

Carta 1822

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	0247 0.7 0534 0.9 0828 0.6 1232 1.5 1921 0.8 2356 1.4	17	0124 1.7 0654 0.2 1309 1.6 2154 0.4	01	0747 0.6 1241 1.6 1943 0.5	17	0153 1.9 0641 0.0 1330 1.6 2130 0.6	01	0034 1.7 0653 0.2 1338 1.8 1939 0.2	17	0249 1.9 0719 -0.1 1351 1.7 1932 0.2	01	0051 1.8 0654 0.3 1400 1.8 1924 0.2	17	0300 1.8 0738 0.1 1400 1.7 1947 0.2
02	0824 0.6 1311 1.7 1941 0.6	18	0213 1.9 0719 0.0 1356 1.7 2215 0.5	02	0017 1.6 0704 0.4 1323 1.8 1954 0.4	18	0234 1.9 0715 -0.2 1406 1.7 1930 0.4	02	0119 1.9 0721 0.0 1428 1.9 1956 0.1	18	0324 1.9 0800 -0.1 1423 1.7 2004 0.1	02	0139 1.9 0715 0.3 1454 1.8 1951 0.1	18	0341 1.8 0817 0.1 1436 1.7 2019 0.1
03	0047 1.5 0721 0.4 1356 1.8 2008 0.4	19	0300 1.9 0753 -0.2 1438 1.8 2006 0.5	03	0104 1.7 0721 0.1 1411 1.9 2008 0.2	19	0311 2.0 0754 -0.3 1436 1.8 2000 0.2	03	0208 2.0 0751 0.0 1515 2.0 2013 0.0	19	0400 1.9 0838 -0.1 1454 1.7 2039 0.0	03	0232 2.0 0738 0.4 1545 1.8 2019 0.0	19	0415 1.8 0858 0.1 1511 1.7 2056 0.1
04	0132 1.7 0739 0.2 1443 1.8 2030 0.3	20	0343 2.0 0823 -0.3 1521 1.8 2023 0.3	04	0153 1.9 0751 0.0 1500 2.0 2024 0.1	20	0354 1.9 0826 -0.3 1513 1.8 2030 0.0	04	0256 2.0 0808 0.1 1602 1.9 2039 0.0	20	0441 1.8 0909 0.0 1528 1.7 2106 0.0	04	0323 2.0 0800 0.4 1100 0.8 1241 0.8 1636 1.8 2058 0.0	20	0456 1.8 0932 0.2 1543 1.6 2130 0.1
05	0219 1.8 0808 0.0 1530 1.9 2053 0.2	21	0421 1.9 0858 -0.3 1600 1.8 2056 0.1	05	0239 1.9 0815 -0.1 1547 2.0 2045 0.0	21	0430 1.9 0902 -0.2 1541 1.8 2100 0.0	05	0345 2.0 0832 0.1 1653 1.9 2108 -0.1	21	0515 1.8 0949 0.1 1553 1.6 2141 0.1	05	0413 2.0 0832 0.5 1136 1.1 1358 0.8 1726 1.7 2139 0.0	21	0538 1.8 1004 0.2 1611 1.6 2206 0.1
06	0304 1.9 0839 -0.1 1613 2.0 2111 0.1	22	0500 1.9 0932 -0.3 1638 1.8 2123 0.0	06	0324 2.0 0845 -0.1 1628 2.0 2104 0.0	22	0504 1.8 0938 -0.1 1613 1.7 2130 0.0	06	0432 1.9 0858 0.2 1213 1.0 1408 0.9 1743 1.7 2147 0.0	22	0558 1.7 1017 0.2 1606 1.5 2209 0.1	06	0504 1.9 0906 0.5 1215 1.3 1508 0.8 1823 1.6 2223 0.1	22	0615 1.7 1039 0.3 1606 1.5 2249 0.1
07	0349 1.9 0908 -0.2 1656 2.1 2134 0.0	23	0543 1.8 1004 -0.1 1709 1.7 2156 0.0	07	0408 2.0 0904 0.0 1709 2.0 2132 -0.1	23	0547 1.7 1006 0.0 1634 1.6 2200 0.0	07	0517 1.8 0924 0.3 1251 1.3 1528 0.8 1838 1.5 2224 0.1	23	0645 1.6 1054 0.3 1538 1.4 2253 0.2	07	0556 1.8 0951 0.5 1306 1.5 1619 0.7 1923 1.5 2317 0.2	23	0700 1.7 1108 0.3 1541 1.4 2328 0.2
08	0430 1.9 0938 -0.1 1738 2.0 2200 0.0	24	0347 1.4 0619 1.6 1039 0.0 1738 1.6 2224 0.0	08	0451 1.9 0928 0.1 1758 1.8 2202 -0.1	24	0624 1.6 1041 0.2 1628 1.5 2230 0.1	08	0604 1.7 1000 0.4 1323 1.5 1641 0.7 1939 1.4 2315 0.2	24	0734 1.5 1124 0.5 1534 1.4 2338 0.3	08	0649 1.6 1030 0.5 1400 1.7 1724 0.6 2026 1.4	24	0747 1.6 1149 0.4 1553 1.3 1811 1.2 1949 1.2
09	0508 1.8 1002 0.0 1813 1.9 2226 0.0	25	0251 1.4 0458 1.3 0702 1.4 1109 0.2 1751 1.5 2258 0.1	09	0532 1.8 0956 0.2 1321 1.1 1534 0.9 1849 1.6 2243 0.0	25	0304 1.3 0453 1.2 0711 1.4 1109 0.4 1553 1.4 2304 0.2	09	0700 1.5 1041 0.6 1406 1.7 1745 0.5 2049 1.3	25	0411 1.1 0506 1.1 0823 1.4 1202 0.6 1547 1.3 1845 1.0 2034 1.1	09	0013 0.3 0738 1.5 1111 0.5 1453 1.7 1819 0.5 2128 1.4	25	0011 0.3 0832 1.6 1221 0.6 1608 1.2 1836 1.1 2054 1.3
10	0547 1.7 1026 0.1 1900 1.0 2300 0.0	26	0311 1.5 0600 1.1 0758 1.3 1151 0.4 1645 1.3 2330 0.2	10	0615 1.6 1023 0.4 1353 1.3 1649 0.8 1947 1.4 2321 0.2	26	0324 1.3 0554 1.1 0809 1.3 1151 0.6 1551 1.3 2351 0.3	10	0017 0.4 0800 1.4 1119 0.7 1454 1.7 1839 0.4 2154 1.4	26	0028 0.4 0541 1.0 0915 1.4 1251 0.8 1558 1.2 1853 0.9 2139 1.2	10	0115 0.3 0824 1.4 1200 0.6 1539 1.7 1909 0.5 2226 1.4	26	0106 0.4 0919 1.5 1306 0.7 1632 1.1 1847 1.0 2149 1.3
11	0632 1.5 1058 0.3 1426 1.1 1636 0.9 1953 1.5 2339 0.2	27	0343 1.4 0647 1.0 0902 1.2 1226 0.7 1634 1.3	11	0709 1.4 1058 0.6 1423 1.5 1754 0.6 2054 1.3	27	0356 1.2 0634 1.0 0911 1.3 1230 0.8 1556 1.2 1900 1.0 2102 1.1	11	0132 0.5 0904 1.3 1204 0.8 1539 1.7 1923 0.3 2256 1.5	27	0136 0.5 1006 1.5 1349 0.9 1600 1.0 1858 0.8 2228 1.4	11	0219 0.4 0905 1.3 1253 0.7 1624 1.6 1958 0.5 2321 1.5	27	0209 0.5 1013 1.5 1408 0.8 1654 1.0 1847 0.9 2239 1.4
12	0400 1.4 0556 1.3 0728 1.3 1124 0.5 1454 1.2 1753 0.8 2053 1.3	28	0008 0.4 0408 1.3 0713 0.8 1008 1.2 1315 0.8 1639 1.2 1909 1.0 2121 1.1	12	0013 0.4 0419 1.1 0549 1.1 0821 1.3 1136 0.8 1502 1.6 1853 0.4 2202 1.3	28	0045 0.5 0426 1.1 0658 0.9 0909 1.4 1321 1.0 1600 1.1 1904 0.8 2208 1.2	12	0256 0.5 1008 1.3 1300 1.0 1617 1.5 2006 0.3 2353 1.6	28	0319 0.6 1102 1.5 1900 0.7 2313 1.5	12	0323 0.4 1009 1.3 1356 0.8 1711 1.3 2039 0.5	28	0356 0.6 1117 1.5 1834 0.7 2328 1.6
13	0019 0.4 0417 1.2 0643 1.1 0849 1.2 1200 0.8 1521 1.4 1858 0.6 2202 1.2	29	0100 0.5 0443 1.2 0745 0.7 1106 1.4 1434 1.0 1624 0.8 1924 0.8 2236 1.2	13	0126 0.6 0456 0.9 0632 0.9 0949 1.2 1211 1.0 1544 1.6 1941 0.3 2311 1.4	29	0156 0.6 0500 0.9 0704 0.8 1104 1.5 1913 0.7 2302 1.4	13	0409 0.4 1109 1.3 1417 1.1 1658 1.3 2049 0.4	29	0526 0.4 1200 1.6 1900 0.5	13	0011 1.6 0424 0.3 1106 1.3 1538 0.8 1811 1.0 2108 0.6	29	0630 0.6 1230 1.5 1838 0.5
14	0119 0.6 0451 1.1 0704 0.9 1006 1.2 1245 1.0 1556 1.5 1954 0.4 2321 1.3	30	0209 0.7 0506 0.9 0756 0.7 1158 1.5 1613 1.5 1936 0.7 2331 1.4	14	0309 0.6 0645 0.7 1100 1.3 1306 1.2 1613 1.5 2019 0.2	30	0626 0.6 1156 1.6 1921 0.5 2351 1.6	14	0041 1.7 0509 0.2 1206 1.4 2113 0.6	30	0000 1.7 0617 0.3 1300 1.7 1909 0.4	14	0100 1.7 0519 0.2 1202 1.4 1716 0.6 1956 0.8 2128 0.7	30	0021 1.7 0838 0.6 1339 1.6 1906 0.4
15	0300 0.7 0504 0.8 0724 0.7 1121 1.3 1341 1.2 1626 1.4 2039 0.3	01	0011 1.6 0506 0.5 1202 1.4 1449 1.3 1636 1.3 2058 0.3	15	0619 0.4 1245 1.7 1928 0.4	31	0619 0.4 1245 1.7 1928 0.4	15	0124 1.8 0600 0.1 1251 1.5 1817 0.6	31	0145 1.8 0608 0.1 1247 1.5 1817 0.4	15	0145 1.8 0608 0.1 1247 1.5 1817 0.4	31	0117 1.8 0749 0.7 1000 0.6 1438 1.7 1941 0.2
16	0032 1.5 0715 0.5 1221 1.5 1506 1.3 1645 1.3 2115 0.3	02	0104 1.8 0602 0.2 1251 1.5 2128 0.4	16	0104 1.8 0602 0.2 1251 1.5 2128 0.4	16	0206 1.9 0643 -0.1 1324 1.6 1858 0.3	16	0206 1.9 0643 -0.1 1324 1.6 1858 0.3	16	0223 1.8 0656 0.1 1326 1.6 1904 0.3	16	0223 1.8 0656 0.1 1326 1.6 1904 0.3	16	0223 1.8 0656 0.1 1326 1.6 1904 0.3