

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2020

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 QUA 0056 0.2 0726 1.6 1153 0.4 1549 1.6 1904 0.8 2154 1.3	17 SEX 0056 0.5 0404 0.9 0604 0.8 0941 1.4 1308 0.6 1647 1.3 1934 0.9 2209 1.3	01 SAB 0154 0.4 0832 1.4 1247 0.4 1645 1.4 1958 0.9 2256 1.3	17 SEG 0145 0.9 0454 1.3 0824 0.5 1153 1.3 1521 0.6 1834 1.0 2054 0.9	01 DOM 0056 0.5 0756 1.3 1213 0.3 1624 1.4 1936 1.0 2204 1.2	17 TER 0054 0.9 0423 1.5 0808 0.4 1138 1.4 1508 0.5 1824 1.0 2041 0.9 2353 1.2	01 QUA 0141 1.0 0343 1.0 0654 0.8 1009 1.3 1351 0.6 1715 1.0 1924 0.9 2321 1.4	17 SEX 0258 1.1 0428 1.2 0854 0.5 1254 1.7 1717 0.2
02 QUI 0151 0.3 0815 1.5 1228 0.5 1619 1.5 1943 0.8 2247 1.3	18 SAB 0147 0.7 0445 1.0 0721 0.7 1051 1.3 1417 0.7 1739 1.1 2008 0.9 2313 1.3	02 DOM 0300 0.6 0938 1.4 1336 0.6 1719 1.2 2024 0.8 2353 1.4	18 TER 0009 1.3 0300 1.1 0528 1.2 0908 0.5 1254 1.5 1656 0.5	02 SEG 0151 0.7 0911 1.3 1304 0.4 1702 1.3 2002 0.9 2308 1.3	18 QUA 0154 1.1 0456 1.4 0853 0.4 1234 1.5 1634 0.5	02 QUI 0717 0.5 1108 1.4 1517 0.7 1706 0.7 1928 0.7	18 SAB 0032 1.4 0853 0.6 1336 1.8 1813 0.0
03 SEX 0254 0.4 0909 1.4 1311 0.6 1656 1.3 2008 0.7 2338 1.4	19 DOM 0254 0.8 0521 1.0 0824 0.7 1202 1.4 1556 0.7 1853 0.9 2041 0.9	03 SEG 0423 0.6 1045 1.4 1441 0.7 1802 1.0 2053 0.8	19 QUA 0106 1.4 0551 1.1 0949 0.5 1349 1.6 1811 0.3	03 TER 0456 0.9 0638 0.3 1024 1.3 1404 0.6 1741 1.1 2019 0.8	19 QUI 0056 1.3 0917 0.5 1321 1.7 1751 0.3	03 SEX 0028 1.6 0747 0.3 1202 1.6 1943 0.4	19 DOM 0102 1.5 0726 0.5 1415 1.8 1904 -0.1
04 SAB 0400 0.4 1008 1.4 1411 0.7 1739 1.1 2039 0.7	20 SEG 0015 1.4 0411 0.9 0608 1.0 0917 0.6 1308 1.5 1721 0.5	04 TER 0045 1.5 0551 0.6 1147 1.4 1611 0.7 1856 0.8 2058 0.7	20 QUI 0151 1.5 1008 0.6 1436 1.7 1911 0.1	04 QUA 0009 1.4 0717 0.6 1126 1.4 1526 0.7 1800 0.8 2024 0.7	20 SEX 0132 1.5 0930 0.6 1406 1.8 1851 0.0	04 SAB 0128 1.8 0808 0.2 1254 1.7 2011 0.2	20 SEG 0130 1.7 0738 0.3 1500 1.8 1951 -0.2
05 DOM 0021 1.5 0500 0.4 1106 1.5 1545 0.7 1838 0.9 2058 0.8	21 TER 0108 1.5 0528 0.9 0706 0.9 1002 0.6 1404 1.6 1832 0.3	05 QUA 0130 1.6 0704 0.5 1245 1.5 1823 0.6	21 SEX 0221 1.6 0745 0.6 1521 1.8 2004 -0.1	05 QUI 0106 1.6 0753 0.4 1221 1.5 2021 0.5	21 SAB 0156 1.6 0749 0.5 1453 1.8 1939 -0.1	05 DOM 0219 1.9 0826 0.2 1347 1.8 2036 0.1	21 TER 0209 1.8 0800 0.1 1545 1.8 2026 -0.2
06 SEG 0106 1.6 0556 0.3 1204 1.5 1724 0.6	22 QUA 0156 1.6 0628 0.8 0817 0.9 1049 0.7 1456 1.7 1926 0.1	06 QUI 0215 1.8 0756 0.4 1341 1.6 1945 0.4	22 SAB 0251 1.7 0809 0.5 1604 1.8 2049 -0.2	06 SEX 0156 1.8 0821 0.3 1315 1.7 2030 0.3	22 DOM 0219 1.7 0802 0.3 1538 1.8 2019 -0.3	06 SEG 0302 2.1 0830 0.1 1441 1.9 2047 0.1	22 QUA 0247 1.9 0819 0.1 1626 1.9 2104 -0.2
07 TER 0154 1.7 0647 0.3 1302 1.6 1832 0.4	23 QUI 0236 1.7 0521 0.7 0958 0.8 1119 0.8 1545 1.7 2015 -0.1	07 SEX 0300 1.9 0834 0.3 1436 1.7 2030 0.2	23 DOM 0323 1.8 0843 0.3 1651 1.8 2126 -0.3	07 SAB 0243 1.9 0845 0.2 1411 1.8 2051 0.1	23 SEG 0243 1.8 0824 0.2 1617 1.8 2100 -0.3	07 TER 0349 2.1 0836 0.1 1538 2.0 2054 0.2	23 QUI 0326 1.9 0845 0.0 1704 1.8 2139 -0.1
08 QUA 0236 1.8 0730 0.2 1358 1.7 1919 0.3	24 SEX 0311 1.8 0802 0.5 1630 1.7 2104 -0.2	08 SAB 0345 2.0 0900 0.3 1530 1.8 2108 0.1	24 SEG 0354 1.9 0908 0.2 1728 1.8 2202 -0.3	08 DOM 0326 2.1 0856 0.2 1509 1.9 2111 0.0	24 TER 0321 1.9 0851 0.1 1658 1.8 2136 -0.3	08 QUA 0430 2.1 0856 0.0 1630 1.9 2106 0.2	24 SEX 0400 1.9 0906 0.0 1747 1.8 2208 0.0
09 QUI 0317 1.9 0813 0.2 1451 1.7 2006 0.6	25 SAB 0351 1.8 0845 0.4 1711 1.7 2149 -0.2	09 DOM 0428 2.1 0919 0.2 1624 1.8 2139 0.0	25 TER 0430 1.9 0938 0.1 1802 1.7 2238 -0.2	09 SEG 0408 2.2 0904 0.2 1606 1.9 2124 0.0	25 QUA 0354 1.9 0909 0.0 1738 1.8 2206 -0.2	09 QUI 0513 1.9 0921 -0.1 1715 1.9 2134 0.2	25 SAB 0432 1.8 0938 0.0 1821 1.7 2241 0.1
10 SEX 0400 1.9 0854 0.2 1541 1.8 2053 0.1	26 DOM 0426 1.8 0915 0.3 1449 1.2 1758 1.6 2224 -0.2	10 SEG 0511 2.1 0945 0.2 1715 1.8 2208 0.0	26 QUA 0504 1.9 1000 0.1 1428 1.4 1800 1.3 1845 1.6 2306 -0.1	10 TER 0454 2.1 0919 0.1 1658 1.9 2145 0.1	26 QUI 0430 1.9 0936 0.0 1809 1.7 2238 -0.1	10 SEX 0054 0.9 0219 1.8 0802 0.8 1000 -0.1 1800 1.8 2202 0.3	26 DOM 0458 1.6 1006 0.0 1556 1.3 1900 1.6 2308 0.3
11 SAB 0447 2.0 0924 0.2 1634 1.7 2134 0.0	27 SEG 0500 1.9 0953 0.2 1404 1.4 1600 1.2 1841 1.5 2302 -0.2	11 TER 0558 2.1 1009 0.2 1804 1.7 2238 0.1	27 QUI 0539 1.8 1028 0.1 1451 1.4 1702 1.3 1921 1.5 2341 0.0	11 QUA 0538 2.1 0951 0.0 1745 1.9 2206 0.1	27 SEX 0504 1.8 1002 0.0 1430 1.4 1600 1.3 1851 1.6 2306 0.0	11 SAB 0123 1.2 0354 0.9 0658 1.5 1047 1.0 1849 1.6 2239 0.4	27 SEG 0524 1.4 1049 0.1 1524 1.3 1647 1.2 1943 1.5 2343 0.5
12 DOM 0530 2.0 0958 0.3 1728 1.7 2211 0.1	28 TER 0536 1.8 1021 0.2 1434 1.5 1702 1.2 1919 1.4 2339 0.0	12 QUA 0645 1.9 1047 0.2 1554 1.3 1854 1.6 2304 0.2	28 SEX 0615 1.7 1100 0.1 1515 1.5 1802 1.2 2006 1.3	12 QUI 0621 1.9 1019 0.0 1828 1.7 2236 0.2	28 SAB 0536 1.6 1034 0.0 1458 1.4 1704 1.3 1930 1.5 2339 0.2	12 DOM 0204 1.4 0508 0.8 0800 1.3 1138 0.2 1606 1.3 1658 1.3 1934 1.4 2309 0.5	28 TER 0351 1.2 0600 1.2 0706 1.2 1134 0.3 1613 1.2 1706 1.2 2028 1.4
13 SEG 0613 2.0 1026 0.3 1821 1.6 2254 0.1	29 QUA 0611 1.8 1056 0.1 1502 1.5 1758 1.1 2004 1.3	13 QUI 0730 1.7 1119 0.2 1515 1.4 1715 1.2 1945 1.5 2339 0.4	29 SAB 0011 0.2 0654 1.5 1138 0.2 1553 1.5 1856 1.1 2102 1.3	13 SEX 0200 1.0 0349 0.9 0709 1.7 1102 0.0 1511 1.4 1645 1.3 1909 1.5 2304 0.4	29 DOM 0615 1.4 1106 0.1 1532 1.4 1804 1.2 2011 1.3	13 SEG 0251 1.6 0613 0.6 0906 1.2 1238 0.3 1651 1.2 1817 1.2 2021 1.3 2351 0.7	29 QUA 0011 0.7 0336 1.2 0617 0.9 0851 1.1 1230 0.4 2123 1.4
14 TER 0700 1.9 1102 0.3 1454 1.2 1638 1.2 1915 1.5 2330 0.2	30 QUI 0013 0.1 0649 1.7 1124 0.2 1536 1.6 1845 1.0 2100 1.3	14 SEX 0302 1.0 0500 0.9 0821 1.5 1202 0.3 1558 1.4 1838 1.1 2039 1.3	30 SAB 0028 0.5 0339 1.2 0624 0.8 0923 1.3 1256 0.4 1647 1.4 1938 1.0 2145 1.2	14 SAB 0232 1.2 0509 0.8 0808 1.4 1151 0.2 1554 1.4 1802 1.2 2000 1.3 2341 0.5	30 SEG 0008 0.5 0554 1.2 0732 1.3 1154 0.3 1608 1.3 1854 1.1 2108 1.3	14 TER 0326 1.7 0706 0.4 1015 1.3 1349 0.4 1741 1.1 1924 1.1 2124 1.2	30 QUI 0054 0.9 0323 1.1 0647 0.7 0858 1.3 1345 0.6 2224 1.5
15 QUA 0751 1.7 1141 0.4 1515 1.3 1749 1.1 2009 1.4	31 SEX 0100 0.3 0736 1.5 1202 0.3 1606 1.5 1917 0.9 2158 1.2	15 SAB 0009 0.5 0339 1.2 0624 0.8 0923 1.3 1256 0.4 1647 1.4 1938 1.0 2145 1.2	15 DOM 0009 0.7 0351 1.5 0723 0.5 1030 1.2 1354 0.5 1726 1.2 2004 1.0 2221 1.1	15 DOM 0306 1.4 0624 0.7 0915 1.3 1245 0.3 1639 1.3 1911 1.1 2100 1.2	31 TER 0051 0.7 0411 1.1 0624 1.0 0900 1.2 1247 0.4 1651 1.2 1913 1.0 2213 1.3	15 QUA 0026 0.8 0402 1.6 0754 0.3 1115 1.4 1500 0.4 1856 1.0 1958 1.0 2241 1.2	15 QUA 0109 1.0 0436 1.4 0824 0.4 1206 1.6 1611 0.4 2347 1.3

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	0154 1.1 0258 1.2 0704 0.5 1056 1.4 1758 0.6 2338 1.6	17 DOM 0838 0.6 1302 1.7 1741 0.1 2349 1.5	01 SEG 0004 1.6 0734 0.4 1204 1.7 1832 0.5	17 QUA 0006 1.5 0632 0.5 1353 1.7 1839 0.2	01 QUA 0058 1.5 0641 0.5 1238 1.7 1711 0.8 1904 0.8 2151 0.6	17 SEX 0051 1.5 0632 0.5 1408 1.7 1909 0.4	01 SAB 0234 1.7 0713 0.1 1402 1.7 1858 0.9 2000 0.9 2304 0.6	17 SEG 0213 1.7 0804 0.1 1523 1.9 2102 0.3			
02 SAB	0728 0.4 1143 1.6 1853 0.4	18 SEG 0706 0.5 1341 1.8 1826 0.0	02 TER 0119 1.7 0726 0.4 1254 1.8 1834 0.5 2039 0.6	18 QUI 0109 1.6 0658 0.3 1438 1.7 1924 0.2	02 QUI 0200 1.6 0653 0.3 1323 1.7 1802 0.8 2000 0.9 2245 0.6	18 SAB 0145 1.6 0711 0.3 1456 1.8 2008 0.4	02 DOM 0317 1.8 0800 -0.1 1449 -1.7 1956 1.7 2156 0.8 2338 0.8	18 TER 0302 1.8 0838 0.0 1609 2.0 2119 0.2	&		
03 DOM	0051 1.7 0749 0.3 1226 1.8 1936 0.3	19 TER 0043 1.6 0706 0.3 1423 1.8 1911 0.0	03 QUA 0215 1.8 0721 0.2 1343 1.8 1854 0.6 2058 0.7 2230 0.6	19 SEX 0200 1.7 0723 0.2 1523 1.8 2009 0.2	03 SEX 0251 1.7 0723 0.1 1415 1.8 1856 0.8 2058 0.9 2336 0.7	19 DOM 0230 1.7 0753 0.1 1547 1.8 2054 0.3	03 SEG 0402 1.8 0841 -0.2 1538 1.8 2038 0.6	19 QUA 0353 1.9 0908 -0.1 1656 2.1 2139 0.2	Z		
04 SEG	0151 1.8 0758 0.2 1313 1.9 2008 0.3	20 QUA 0134 1.7 0726 0.2 1506 1.8 1956 0.0	04 QUI 0304 1.8 0741 0.0 1438 1.8 1921 0.6 2153 0.8 2345 0.7	20 SAB 0245 1.8 0756 0.1 1609 1.8 2056 0.2	04 SAB 0336 1.8 0802 -0.1 1508 1.8 1947 0.7 2206 0.9	20 SEG 0315 1.8 0830 0.0 1634 1.9 2126 0.3	04 TER 0449 1.8 0919 -0.2 1624 1.8 2109 0.4	20 QUI 0438 1.9 0941 2.0 1741 0.1 2202 0.1	&		
05 TER	0241 1.9 0758 0.1 1408 1.9 1958 0.3	21 QUI 0221 1.8 0753 0.1 1554 1.8 2036 0.0	05 SEX 0353 1.8 0809 -0.1 1534 1.8 2000 0.6 2249 0.9	21 DOM 0324 1.8 0830 0.0 1656 1.8 2132 0.2	05 DOM 0023 0.8 0419 1.7 0847 -0.1 1602 1.8 2030 0.6 2336 1.0	21 TER 0400 1.8 0908 0.0 1717 2.0 2156 0.2	05 QUA 0530 1.7 1000 -0.2 1702 1.8 2147 0.2	21 SEX 0523 1.8 1006 0.0 1819 2.1 2230 0.1	Z		
06 QUA	0323 2.0 0804 0.0 1504 1.9 2006 0.4	22 SEX 0302 1.8 0813 0.0 1639 1.8 2109 0.0	06 SAB 0053 0.8 0438 1.7 0853 -0.1 1626 1.8 2041 0.5 2349 1.1	22 SEG 0402 1.7 0906 0.0 1739 1.9 2204 0.2	06 SEG 0124 0.9 0506 1.7 0930 -0.1 1653 1.8 2111 0.5	22 QUA 0447 1.7 0951 0.0 1800 2.0 2221 0.2	06 QUI 0202 1.3 0330 1.3 0809 1.6 1039 -0.1 1739 1.9 2211 0.1	22 SAB 0609 1.6 1039 0.2 1904 1.9 2302 0.1	&		
07 QUI	0406 1.9 0828 -0.1 1600 1.9 2028 0.4	23 SAB 0339 1.8 0845 0.0 1717 1.8 2149 0.1	07 DOM 0202 0.9 0524 1.6 0934 0.0 1713 1.8 2117 0.5	23 TER 0445 1.6 0951 0.1 1817 1.9 2238 0.3	07 TER 0053 1.2 0253 1.1 0558 1.5 1013 -0.1 1736 1.8 2154 0.4	23 QUI 0538 1.6 1026 0.1 1843 2.0 2254 0.2	07 SEX 0224 1.4 0455 1.2 0658 1.4 1115 0.0 1809 1.8 2247 0.1	23 DOM 0313 1.4 0453 1.3 0700 1.5 1108 0.3 1430 0.9 1608 0.8 1954 1.7 2341 0.2	Z		
08 SEX	0054 0.8 0456 1.8 0902 -0.1 1653 1.9 2102 0.4	24 DOM 0411 1.7 0913 0.0 1758 1.8 2217 0.2	08 SEG 0049 1.3 0323 0.9 0619 1.4 1021 0.0 1800 1.8 2200 0.4	24 QUA 0534 1.4 1032 0.2 1858 1.9 2306 0.4	08 QUA 0145 1.4 0413 1.1 0653 1.4 1102 0.0 1808 1.8 2228 0.2	24 SEX 0636 1.5 1106 0.2 1921 1.9 2321 0.3	08 SAB 0256 1.6 0553 1.1 0751 1.3 1158 0.1 1843 1.7 2313 0.1	24 SEG 0338 1.4 0602 1.2 0800 1.3 1147 0.5 1502 1.1 1738 0.8 2049 1.4	&		
09 SAB	0009 1.1 0219 0.9 0547 1.6 0945 -0.1 1741 1.8 2139 0.4	25 SEG 0443 1.6 0954 0.0 1839 1.7 2253 0.3	09 TER 0141 1.5 0447 0.9 0719 1.3 1115 0.1 1839 1.7 2243 0.4	25 QUI 0321 1.3 0454 1.2 0651 1.3 1119 0.3 1943 1.8 2341 0.5	09 QUI 0223 1.5 0523 1.0 0749 1.3 1153 0.1 1843 1.8 2302 0.2	25 SAB 0315 1.3 0517 1.2 0738 1.3 1149 0.4 2004 1.8 2358 0.3	09 DOM 0321 1.6 0634 1.0 0849 1.2 1241 0.3 1917 1.6 2349 0.2	25 TER 0021 0.3 0409 1.4 0700 1.0 0908 1.2 1221 0.7 1545 1.2 1856 0.7 2156 1.3	C		
10 DOM	0100 1.3 0349 0.9 0641 1.4 1028 0.0 1821 1.7 2211 0.4	26 TER 0521 1.4 1036 0.2 1915 1.7 2319 0.4	10 QUA 0224 1.6 0551 0.8 0824 1.2 1215 0.2 1911 1.6 2317 0.4	26 SEX 0313 1.3 0553 1.1 0804 1.2 1213 0.4 2023 1.7	10 SEX 0300 1.6 0611 0.9 0847 1.2 1241 0.2 1911 1.7 2339 0.2	26 DOM 0343 1.4 0615 1.1 0841 1.3 1226 0.5 1641 0.8 2056 1.6	10 SEG 0354 1.6 0706 0.9 0947 1.2 1332 0.5 1956 1.5	26 QUA 0113 0.5 0454 1.2 0745 0.9 1024 1.2 1308 0.9 1621 1.3 1958 0.6 2311 1.3	V		
11 SEG	0151 1.5 0500 0.8 0749 1.3 1124 0.2 1902 1.6 2256 0.5	27 QUA 0323 1.3 0547 1.2 0656 1.2 1123 0.3 2000 1.6 2356 0.6	11 QUI 0306 1.7 0638 0.6 0926 1.3 1313 0.3 1945 1.5 2358 0.4	27 SAB 0011 0.6 0339 1.3 0624 0.9 0909 1.3 1315 0.5 2109 1.6	11 SAB 0338 1.6 0658 0.8 0941 1.2 1334 0.3 1945 1.6	27 SEG 0039 0.5 0411 1.3 0702 1.0 0945 1.3 1313 0.7 1619 0.9 1830 0.8 2158 1.4	11 TER 0021 0.3 0419 1.5 0743 0.8 1043 1.3 1432 0.6 2054 1.4	27 QUI 0238 0.7 0531 1.0 0804 0.8 1134 1.3 1409 1.1 1700 1.3 2051 0.5	V		
12 TER	0234 1.7 0602 0.6 0856 1.2 1230 0.3 1947 1.4 2334 0.5	28 QUI 0317 1.2 0604 1.0 0834 1.2 1223 0.4 2051 1.6	12 SEX 0347 1.6 0711 1.6 1019 1.3 1413 0.3 2017 1.5	28 DOM 0056 0.7 0402 1.2 0658 0.8 1006 1.3 1423 0.6 2209 1.5	12 DOM 0009 0.3 0406 1.5 0730 0.7 1030 1.3 1428 0.4 2024 1.5	28 TER 0128 0.6 0456 1.2 0741 0.9 1047 1.3 1409 0.8 1700 1.0 1958 0.7 2315 1.3	12 QUA 0104 0.5 0545 1.3 0806 0.7 1132 1.4 1539 0.7 2206 1.3	28 SEX 0026 1.4 0434 0.6 0653 0.7 0802 0.7 1224 1.4 1543 1.1 1739 1.2 2130 0.4	C		
13 QUA	0311 1.7 0654 0.5 1000 1.3 1339 0.3 2026 1.3	29 SEX 0028 0.8 0324 1.2 0634 0.8 0941 1.3 1343 0.5 2145 1.6	13 SAB 0036 0.6 0417 1.5 0751 0.6 1108 1.4 1511 0.3 2058 1.4	29 SEG 0154 0.8 0424 1.0 0721 0.7 1100 1.5 1528 0.7 2334 1.4	13 SEG 0053 0.5 0441 1.4 0800 0.7 1115 1.4 1524 0.4 2117 1.4	29 QUA 0256 0.8 0541 0.9 0800 0.8 1141 1.4 1509 0.9 2100 0.6	13 QUI 0202 0.7 0524 1.1 0828 0.7 1215 1.5 1656 0.7 2321 1.3	29 SAB 0124 1.6 0608 0.4 1308 1.5 2202 0.5	V		
14 QUI	0009 0.7 0354 1.6 0734 0.4 1056 1.4 1445 0.3 2108 1.3	30 SAB 0111 1.0 0336 1.1 0658 0.6 1034 1.4 1539 0.6 2249 1.5	14 DOM 0115 0.7 0451 1.2 0811 0.6 1154 1.6 1608 0.3 2153 1.4	30 TER 0739 0.7 1151 1.6 1623 0.7 1824 0.8 2043 0.7	14 TER 0139 0.7 0508 1.2 0821 0.7 1202 1.5 1621 0.4 2224 1.4	30 QUI 0043 1.4 0513 0.6 1228 1.5 1619 1.0 1821 1.1 2151 0.5	14 SEX 0343 0.7 0556 0.8 0839 0.7 1300 1.6 1828 0.6	30 DOM 0213 1.8 0702 0.1 1347 1.6 2224 0.6	C		
15 SEX	0056 0.8 0424 1.4 0804 0.4 1143 1.6 1549 0.3 2200 1.3	31 DOM 0717 0.5 1117 1.6 1741 0.5	15 SEG 0224 0.9 0509 1.0 0832 0.6 1232 1.6 1700 0.2 2256 1.5	15 SEG 0224 0.9 0509 1.0 0832 0.6 1232 1.6 1700 0.2 2256 1.5	15 QUA 0258 0.8 0551 0.9 0841 0.7 1245 1.6 1715 0.5 2343 1.4	31 SEX 0145 1.6 0628 0.4 1313 1.6 1739 1.0 1904 1.0 2228 0.6	15 SAB 0026 1.5 0743 0.5 1347 1.7 1951 0.5	31 SEG 0258 1.9 0745 -0.2 1423 1.7 2008 0.6	V		
16 SAB	0153 1.0 0449 1.2 0832 0.5 1221 1.7 1647 0.2 2254 1.4	16 TER 0819 0.7 1308 1.7 1753 0.2	16 TER 0819 0.7 1308 1.7 1753 0.2	16 QUI 0532 0.7 0706 0.7 0828 0.7 1324 1.6 1811 0.5	16 QUI 0532 0.7 0706 0.7 0828 0.7 1324 1.6 1811 0.5	16 DOM 0123 1.6 0732 0.3 1432 1.8 2034 0.4					

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2020

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 TER	0341 1.9	17 QUI &	0332 2.0	01 QUI Z	0353 1.9	17 SAB	0354 2.0	01 DOM	0438 1.9	17 TER	0502 1.9	01 TER	0453 1.8	17 QUI	0534 1.8
	0821 -0.3		0854 -0.1		0832 -0.4		0841 0.1		0909 -0.2		0906 0.4		0919 0.1		0938 0.4
	1502 1.8		1632 2.1		1451 1.8		1654 2.0		1539 1.8		1224 1.3		1556 1.7		1302 1.4
	2032 0.4		2111 0.1		2039 0.1		2108 0.0		2100 0.0		1506 0.8		2108 0.0		1600 0.8
02 QUA Z	0419 1.9	18 SEX	0417 2.0	02 SEX Z	0428 1.9	18 DOM	0441 2.0	02 SEG	0511 1.8	18 QUA	0554 1.7	02 QUA	0530 1.8	18 SEX	0615 1.7
	0900 -0.4		0911 0.0		0906 -0.4		0902 0.2		0945 -0.1		0949 0.4		0956 0.1		1015 0.4
	1543 1.8		1713 2.1		1536 1.9		1221 0.9		1619 1.7		1311 1.5		1634 1.6		1358 1.6
	2100 0.2		2138 0.0		2102 0.1		1743 1.8		2126 0.0		1619 0.8		2149 0.0		1706 0.8
03 QUI	0458 1.8	19 SAB	0502 1.9	03 SAB	0502 1.8	19 SEG	0524 1.8	03 TER	0554 1.7	19 QUI	0643 1.6	03 QUI	0608 1.7	19 SAB	0658 1.6
	0936 -0.3		0939 0.1		0941 -0.3		0934 0.3		1011 0.1		1026 0.5		1026 0.3		1100 0.3
	1624 1.9		1800 2.0		1619 1.8		1254 1.2		1651 1.6		1402 1.7		1717 1.5		1449 1.7
	2126 0.1		2204 0.0		2126 0.0		1515 0.8		2200 0.0		1724 0.7		2224 0.1		1804 0.7
04 SEX	0538 1.7	20 DOM	0549 1.8	04 DOM	0543 1.7	20 TER	0609 1.6	04 QUA	0343 1.3	20 SEX	0000 0.2	04 SEX	0656 1.6	20 DOM	0041 0.2
	1008 -0.2		1004 0.2		1008 -0.1		1004 0.4		0638 1.5		0734 1.4		1102 0.4		0739 1.5
	1700 1.9		1323 0.9		1654 1.8		1332 1.4		1047 0.3		1108 0.5		1526 1.3		1143 0.4
	2156 0.1		1508 0.8		2156 0.0		1634 0.7		1726 1.4		1453 1.7		1702 1.3		1530 1.7
05 SAB	0343 1.4	21 SEG	0638 1.6	05 SAB	0343 1.3	21 QUA	0702 1.4	05 QUI	0308 1.3	21 SAB	0100 0.3	05 SAB	0745 1.6	21 SEG	0138 0.3
	0611 1.6		1038 0.3		0619 1.6		1047 0.5		0456 1.2		0826 1.3		1139 0.5		0817 1.4
	1043 -0.1		1358 1.2		1043 0.1		1411 1.6		0723 1.4		1156 0.6		1521 1.3		1223 0.5
	1736 1.8		1632 0.8		1730 1.6		1743 0.6		1115 0.4		1538 1.7		1753 1.1		1609 1.6
06 DOM	0245 1.5	22 TER	0326 1.4	06 DOM	0249 1.4	22 QUI	0400 0.3	06 SEX	0339 1.2	22 DOM	0206 0.4	06 DOM	0000 0.3	22 TER	0239 0.4
	0458 1.3		0528 1.2		0500 1.3		0406 1.2		0547 1.1		0921 1.3		0838 1.5		0902 1.3
	0658 1.4		0732 1.4		0704 1.4		0554 1.1		0817 1.4		1245 0.8		1213 0.7		1311 0.6
	1113 0.1		1106 0.5		1109 0.3		0804 1.3		1158 0.6		1615 1.5		1536 1.2		1656 1.4
07 SEG	0304 1.5	23 QUA C	0009 0.3	07 SEG	0309 1.4	23 SEX	0196 0.4	07 SAB	0002 0.4	23 SEG	0315 0.4	07 SEG	0058 0.5	23 QUA	0345 0.4
	0558 1.2		0402 1.3		0800 1.3		0653 1.0		0408 1.1		1013 1.3		0928 1.5		0958 1.4
	0753 1.3		0643 1.1		1151 0.5		0913 1.2		0604 1.0		1345 0.9		1302 0.8		1417 0.8
	1153 0.3		0845 1.2		1858 1.3		1206 0.8		0915 1.4		1658 1.3		1551 1.1		1741 1.1
08 TER	1845 1.6	24 QUI C	1513 1.5	08 TER	0345 1.4	24 SAB	0224 0.5	08 DOM	0104 1.2	24 TER	0006 1.6	08 TER	0211 0.6	24 QUI	0021 1.6
	2319 0.1		1854 0.6		0647 1.0		0554 0.9		0439 0.9		0423 0.3		1024 1.5		0445 0.3
	0332 1.5		0108 0.5		0904 1.2		1026 1.2		0715 0.8		1102 1.4		1409 1.0		1056 1.4
	0645 1.0		0447 1.2		1226 0.7		1026 1.2		1013 1.5		1534 0.9		1549 1.0		1604 0.8
09 QUA	0400 1.5	25 SEX	0232 0.6	09 QUA	0015 0.4	25 DOM	0353 0.5	09 SEG	0236 0.6	25 QUA	0054 1.7	09 QUA	0608 0.5	25 SEX	0106 1.7
	0713 0.9		0534 1.0		0411 1.2		1124 1.3		0408 0.7		0521 0.1		1128 1.6		0539 0.2
	0958 1.2		0756 0.8		1008 1.3		1415 1.1		0615 0.6		1145 1.5		1917 0.6		1153 1.5
	1321 0.7		1111 1.2		1319 0.9		1656 1.3		1109 1.6		1756 0.7		2343 1.6		1743 0.6
10 QUI V	0041 0.4	26 SAB	0008 1.5	10 QUI	0113 0.6	26 SEG	0039 1.7	10 TER	0638 0.4	26 QUI	0136 1.8	10 QUI	0654 0.5	26 SAB	0151 1.7
	0432 1.3		0411 0.6		0443 1.0		0504 0.3		1208 1.7		0609 0.0		1238 1.6		0624 0.2
	0747 0.8		0741 0.7		0719 0.8		1208 1.4		1934 0.4		1221 1.6		1921 0.5		1245 1.6
	1058 1.3		1209 1.4		1106 1.4		1208 0.5		1836 0.5		1836 0.5		1811 1.0		1832 0.4
11 SEX	0136 0.6	27 DOM	0102 1.7	11 DOM	0243 0.7	27 TER	0121 1.8	11 QUA	0006 1.7	27 SEX	0211 1.8	11 SEX	0034 1.7	27 DOM	0228 1.8
	0500 1.1		0541 0.3		0445 0.8		0600 0.0		0708 0.2		0656 -0.1		0732 0.5		0708 0.2
	0802 0.7		1254 1.5		0721 0.6		1239 1.6		1306 1.8		1304 1.7		1341 1.7		1334 1.6
	1151 1.4		2136 0.5		1200 1.6		1921 0.6		1947 0.3		1906 0.3		1913 0.4		1909 0.3
12 SAB	0258 0.7	28 SEG	0153 1.8	12 SEG	0721 0.4	28 QUA	0202 1.9	12 QUI	0058 1.9	28 SAB	0254 1.8	12 SAB	0123 1.9	28 SEG	0308 1.8
	0511 0.8		0634 0.0		1249 1.8		0647 -0.1		0730 0.2		0734 -0.1		0700 0.5		0753 0.2
	0806 0.6		1323 1.6		1954 0.3		1304 1.7		1404 1.9		1349 1.8		1438 1.8		1419 1.7
	1234 1.6		2134 0.6		1911 0.4		1911 0.4		1951 0.2		1939 0.2		1928 0.2		1951 0.2
13 DOM	0004 1.5	29 TER	0234 1.9	13 TER	0036 1.7	29 QUI	0243 1.9	13 SEX	0149 2.0	29 DOM	0332 1.9	13 DOM	0215 1.9	29 TER	0351 1.8
	0756 0.5		0715 -0.2		0734 0.2		0723 -0.3		0738 0.2		0809 -0.1		0936 0.7		0830 0.2
	1319 1.7		1345 1.7		1339 1.9		1332 1.8		1456 1.9		1434 1.8		1100 0.6		1504 1.7
	2011 0.4		1947 0.5		2013 0.2		1943 0.2		1958 0.1		2006 0.1		1526 1.8		2026 0.1
14 SEG	0100 1.7	30 QUA	0311 1.9	14 QUA	0124 1.9	30 SEX	0319 1.9	14 SAB	0239 2.0	30 SEG	0409 1.8	14 SEG	0306 1.9	30 QUA	0430 1.9
	0751 0.2		0756 -0.3		0754 0.0		0802 -0.3		0749 0.2		0849 0.0		1017 0.9		0906 0.2
	1408 1.9		1417 1.8		1430 2.0		1413 1.8		1547 1.9		1517 1.8		1219 0.7		1549 1.7
	2036 0.3		2009 0.3		2024 0.2		2006 0.1		2015 0.0		2039 0.0		1615 1.8		2106 0.0
15 TER	0154 1.8	31 SAB	0358 1.9	15 QUI	0215 2.0	31 SAB	0358 1.9	15 DOM	0328 2.0	31 QUI	0358 1.9	15 TER	0358 1.9	31 QUI	0508 1.9
	0809 0.0		0811 0.0		0811 0.0		0839 -0.3		0804 0.3		1109 1.1		0811 0.5		0945 0.2
	1458 2.0		1456 1.8		1519 2.1		1456 1.8		1111 0.8		1223 0.7		1338 0.8		1634 1.6
	2051 0.2		2036 0.0		2028 0.1		2036 0.0		1636 1.8		2051 0.0		1706 1.7		2149 0.0
16 QUA	0243 1.9	31 SAB	0358 1.9	16 SEX	0304 2.0	31 SAB	0358 1.9	16 SEG	0415 2.0	31 QUI	0449 1.9	16 QUA	0449 1.9	31 QUI	0508 1.9
	0832 -0.1		0823 0.0		0823 0.0		0802 -0.3		0836 0.3		0856 0.5		0811 0.5		0945 0.2
	1547 2.1		1606 2.1		1606 2.1		1413 1.8		1149 1.0		1206 1.2		1109 1.1		1634 1.6
	2100 0.2		2045 0.0		2045 0.0		2006 0.1		1356 0.8		1453 0.8		1338 0.8		2149 0.0