

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2022

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 SAB 0215 1.9 0709 0.7 0847 0.8 1113 0.6 1530 1.7 2021 0.1	17 SEG 0358 1.8 0853 0.2 1458 1.7 2054 0.1	01 TER 0353 2.0 0823 0.7 1045 0.9 1251 0.7 1700 1.9 2151 -0.1	17 QUI 0456 2.0 0939 0.1 1636 1.7 2154 -0.1	01 TER 0251 1.9 1058 0.5 1551 1.9 2054 -0.1	17 QUI 0356 2.0 0853 0.0 1532 1.8 2102 -0.1	01 SEX 0347 1.8 0830 0.1 1653 1.9 2119 -0.2	17 DOM 0445 1.9 0909 -0.1 1638 1.9 2121 0.1
	Z	&				&	
02 DOM 0309 2.0 0745 0.7 0953 0.9 1219 0.6 1621 1.8 2106 0.0	18 TER 0439 1.9 0923 0.2 1539 1.7 2128 0.0	02 QUA 0441 2.0 0900 0.5 1204 1.0 1404 0.9 1751 1.9 2221 -0.1	18 SEX 0534 2.0 1002 0.0 1717 1.7 2221 -0.1	02 QUA 0336 1.9 0823 0.5 1638 2.0 2123 -0.2	18 SEX 0434 2.0 0911 0.0 1621 1.8 2130 -0.1	02 SAB 0419 1.8 0900 0.0 1734 1.9 2156 -0.1	18 SEG 0524 1.8 0943 -0.1 1717 1.8 2151 0.2
				&	Z		
03 SEG 0402 2.0 0817 1.7 1056 1.0 1328 0.7 1713 1.7 2153 0.0	19 QUA 0515 1.9 0956 0.2 1623 1.6 2204 -0.1	03 QUI 0523 1.9 0938 0.3 1306 1.3 1523 1.0 1839 1.8 2258 -0.1	19 SAB 0608 1.9 1032 0.0 1753 1.6 2254 0.0	03 QUI 0415 1.9 0853 0.3 1721 1.9 2156 -0.2	19 SAB 0506 2.0 0939 -0.1 1700 1.8 2158 -0.1	03 DOM 0445 1.7 0936 -0.1 1408 1.3 1456 1.3 1809 1.8 2226 0.0	19 TER 0254 1.0 0611 1.6 1015 0.0 1800 1.8 2211 0.3
04 TER 0456 1.9 0900 0.6 1200 1.2 1445 0.8 1808 1.7 2236 0.0	20 QUI 0554 1.9 1021 0.1 1711 1.6 2241 0.0	04 SEX 0602 1.8 1011 0.1 1400 1.5 1638 1.1 1923 1.6 2332 0.0	20 DOM 0651 1.8 1102 0.1 1826 1.6 2317 0.2	04 SEX 0456 1.9 0921 0.1 1315 1.2 1449 1.2 1804 1.9 2224 -0.1	20 DOM 0549 1.9 1006 -0.1 1738 1.8 2219 0.1	04 SEG 0456 1.6 1006 0.0 1438 1.3 1558 1.3 1853 1.6 2300 0.1	20 QUA 0145 1.2 0419 0.9 0709 1.3 1102 0.2 1847 1.6 2247 0.5
05 QUA 0545 1.9 0945 0.5 1302 1.4 1558 0.8 1904 1.6 2317 0.0	21 SEX 0634 1.8 1054 0.2 1749 1.5 2313 0.0	05 SAB 0639 1.7 1054 0.1 1449 1.6 1743 1.0 2009 1.5	21 SEG 0736 1.6 1139 0.2 1856 1.5 2347 0.4	05 SAB 0532 1.8 0958 0.0 1400 1.4 1558 1.2 1851 1.7 2300 0.0	21 SEG 0630 1.7 1041 0.0 1809 1.7 2247 0.2	05 TER 0413 1.5 1045 0.1 1508 1.4 1700 1.3 1936 1.5 2334 0.3	21 QUI 0208 1.4 0534 0.7 0824 2.4 1200 0.4 1938 1.5 2313 0.7
06 QUI 0626 1.8 1023 0.4 1400 1.6 1702 0.8 2000 1.5	22 SAB 0709 1.8 1123 0.2 1602 1.4 1849 1.4 2353 0.2	06 DOM 0008 1.5 0708 1.5 1132 0.1 1534 1.7 1841 1.0 2104 1.3	22 TER 0341 1.0 0513 1.0 0828 1.4 1215 0.3 1713 1.3 1802 1.3 1953 1.4	06 DOM 0600 1.6 1034 0.0 1443 1.5 1700 1.2 1930 1.5 2334 0.1	22 TER 0238 1.1 0409 1.0 0719 1.5 1113 0.2 1849 1.6 2308 0.4	06 QUA 0402 1.4 1117 0.2 1547 1.3 1800 1.2 2021 1.3	22 SEX 0247 1.6 0626 0.4 0945 1.2 1321 0.5 2038 1.4 2354 0.8
07 SEX 0002 0.1 0706 0.6 1104 0.3 1453 1.7 1802 0.8 2058 1.4	23 DOM 0756 1.6 1200 0.3 1619 1.4 1813 1.3 1949 1.3	07 SEG 0054 0.3 0730 0.6 1211 0.2 1613 1.6 1928 0.9 2204 1.3	23 QUA 0009 0.6 0341 1.1 0639 0.8 0941 1.2 1306 0.5 1847 1.2 2108 1.3	07 SEG 0621 1.5 1108 0.0 1519 1.5 1802 1.1 2013 1.4	23 QUA 0247 1.2 0539 0.8 0823 1.3 1202 0.3 1941 1.4 2339 0.6	07 QUI 0004 0.5 0405 1.4 1202 0.4 1615 1.3 1854 1.0 2119 1.3	23 SAB 0315 1.7 0711 0.2 1051 1.4 1500 0.5 2149 1.3
			V			V	
08 SAB 0051 0.2 0747 1.5 1151 0.3 1541 1.7 1858 0.7 2154 1.4	24 SEG 0023 0.4 0847 1.5 1239 0.5 1654 1.3 1849 1.2 2049 1.3	08 TER 0145 0.5 0604 1.3 1300 0.4 1700 1.5 2008 0.8 2306 1.3	24 QUI 0047 0.8 0356 1.2 0738 0.6 1058 1.2 1421 0.7 1856 0.9 2243 1.3	08 TER 0008 0.3 0447 1.4 1151 0.2 1600 1.5 1900 1.0 2111 1.2	24 QUI 0304 1.4 0639 0.6 0945 1.2 1304 0.5 2053 1.3	08 SEX 0045 0.8 0415 1.3 0739 0.9 0924 1.0 1300 0.5 1656 1.1 1924 0.9 2223 1.3	24 DOM 0034 1.0 0353 1.6 0756 0.2 1147 1.6 1621 0.4 2300 1.3
09 DOM 0141 0.3 0824 1.4 1236 0.4 1624 1.6 1949 0.7 2253 1.4	25 TER 0102 0.6 0551 0.9 0947 1.3 1324 0.6 1724 1.1 1854 1.1 2154 1.3	09 QUA 0249 0.7 0641 1.2 0811 1.1 0949 1.2 1358 0.6 1743 1.3 2045 0.7	25 SEX 0121 1.1 0413 1.3 0821 0.4 1208 1.3 1913 0.7	09 QUA 0051 0.5 0458 1.3 1232 0.4 1639 1.4 1945 0.9 2217 1.2	25 SEX 0006 0.8 0332 1.5 0724 0.4 1058 1.3 1439 0.7 2213 1.3	09 SAB 0128 1.0 0413 1.2 0736 0.8 1030 1.1 1406 0.6 1739 1.0 1949 0.9 2323 1.4	25 SEG 0121 1.2 0411 1.4 0830 0.2 1234 1.7 1723 0.3
	V				V	C	
10 SEG 0238 0.4 0902 1.3 1326 0.5 1711 1.4 2024 0.7 2347 1.5	26 QUA 0149 0.8 0436 0.9 0719 0.8 1100 1.3 1443 0.8 1849 0.9 2300 1.4	10 QUI 0004 1.4 0402 0.7 1104 1.2 1511 0.7 1821 1.0 2102 0.7	26 SAB 0002 1.4 0226 1.3 0432 1.3 0904 0.3 1311 1.5 1934 0.4	10 QUI 0141 0.8 0509 1.2 0800 1.0 0945 1.1 1324 0.5 1711 1.2 2009 0.8 2323 1.3	26 SAB 0047 1.1 0358 1.5 0806 0.2 1200 1.5 1709 0.6 2351 1.4	10 DOM 0734 0.7 1113 1.3 1539 0.6	26 TER 0017 1.4 0900 0.3 1317 1.9 1811 0.1
11 TER 0341 0.5 1008 1.3 1439 0.6 1802 1.2 2100 0.7	27 QUI 0253 0.9 0441 1.0 0823 0.6 1215 1.3 1834 0.7	11 SEX 0056 1.5 0526 0.7 1200 1.3 1653 0.7 1909 0.8 2108 0.7	27 DOM 0109 1.6 0947 0.3 1406 1.7 1958 0.2	11 SEX 0258 0.9 0515 0.9 0756 0.9 1053 1.2 1436 0.7 1754 1.0 2036 0.8	27 DOM 0138 1.3 0411 1.5 0849 0.2 1256 1.7 1830 0.4	11 SEG 0023 1.5 0730 0.5 1156 1.5 1734 0.5	27 QUA 0121 1.5 0911 0.5 1404 1.9 1856 0.0
12 QUA 0034 1.5 0443 0.5 1121 1.3 1608 0.7 1902 0.9 2121 0.7	28 SEX 0008 1.5 0915 0.5 1324 1.5 1928 0.5	12 SAB 0141 1.6 0647 0.6 1247 1.5 1826 0.5	28 SEG 0204 1.8 1023 0.4 1458 1.8 2024 0.0	12 SAB 0021 1.4 0741 0.8 1143 1.3 1604 0.7 1839 0.8 2041 0.7	28 SEG 0102 1.5 0919 0.2 1347 1.8 1909 0.1	12 TER 0117 1.6 0734 0.4 1234 1.7 1843 0.3	28 QUI 0204 1.6 0715 0.4 1453 1.9 1934 0.0
13 QUI 0117 1.6 0543 0.4 1217 1.4 1739 0.6	29 SAB 0109 1.7 1004 0.4 1423 1.6 2008 0.2	13 DOM 0219 1.7 0739 0.4 1324 1.6 1932 0.3		13 DOM 0111 1.6 0734 0.6 1221 1.5 1815 0.5	29 TER 0153 1.7 0949 0.4 1434 1.9 1943 0.0	13 QUA 0206 1.8 0747 0.2 1315 1.8 1923 0.1	29 SEX 0239 1.7 0738 0.2 1538 1.9 2009 -0.1
14 SEX 0200 1.7 0638 0.4 1302 1.5 1843 0.4	30 DOM 0208 1.8 1056 0.4 1515 1.8 2041 0.1	14 SEG 0302 1.8 0815 0.3 1408 1.6 2013 0.2		14 SEG 0158 1.7 0749 0.4 1302 1.6 1917 0.3	30 QUA 0234 1.8 0811 0.5 1521 1.9 2013 -0.1	14 QUI 0249 1.9 0802 0.0 1404 1.8 2002 0.0	30 SAB 0308 1.7 0806 0.0 1617 1.9 2053 -0.1
						&	
15 SAB 0241 1.7 0726 0.3 1341 1.6 1932 0.3	31 SEG 0302 1.9 1149 0.5 1606 1.9 2117 -0.1	15 TER 0343 1.9 0849 0.2 1454 1.7 2051 0.0		15 TER 0239 1.8 0808 0.2 1347 1.7 1958 0.1	31 QUI 0309 1.8 0804 0.3 1606 2.0 2051 -0.2	15 SEX 0328 2.0 0823 0.0 1458 1.9 2032 0.0	
16 DOM 0319 1.8 0811 0.3 1419 1.6 2013 0.2		16 QUA 0419 1.9 0911 0.1 1545 1.7 2121 -0.1		16 QUA 0319 1.9 0828 0.1 1438 1.8 2030 0.0		16 SAB 0404 2.0 0849 -0.1 1551 1.9 2100 0.0	
		Z				Z	

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 DOM	0332 1.7 0841 -0.1 1700 1.8 2126 0.0	17 TER	0006 0.9 0111 0.9 0506 1.7 0921 0.0 1702 1.0 2115 0.4	01 QUA	0326 1.6 0921 0.1 1754 1.8 2215 0.2	17 SEX	0049 1.3 0347 0.8 0656 1.5 1106 0.2 1830 1.9 2215 0.5	01 SEX	0339 1.6 0951 0.1 1808 1.9 2236 0.2	17 DOM	0139 1.4 0434 0.9 0732 1.5 1145 0.1 1854 1.8 2253 0.2	01 SEG	0409 1.6 1053 0.0 1856 1.9 2309 0.1	17 QUA	0306 1.7 0611 0.9 0851 1.3 1228 0.4 1938 1.4 2354 0.1
02 SEG	0345 1.7 0908 0.0 1741 1.8 2202 0.1	18 QUA	0028 1.1 0251 0.9 0800 1.5 1004 0.1 1753 1.8 2154 0.5	02 QUI	0338 1.6 0958 0.1 1834 1.8 2251 0.3	18 SAB	0141 1.5 0458 0.7 0800 1.4 1209 0.3 1911 1.8 2300 0.5	02 SAB	0349 1.6 1026 0.1 1849 1.8 2302 0.2	18 SEG	0226 1.6 0541 0.8 0830 1.4 1230 0.2 1932 1.7 2328 0.2	02 TER	0358 1.5 1124 0.2 1934 1.8 2343 0.2	18 QUI	0353 1.7 0704 0.8 0954 1.3 1319 0.5 1749 1.3
03 TER	0349 1.6 0945 0.0 1817 1.7 2236 0.2	19 QUI	0106 1.3 0406 0.8 0704 1.3 1100 0.2 1841 1.7 2226 0.6	03 SEX	0339 1.5 1038 0.2 1909 1.2 2315 0.4	19 DOM	0230 1.7 0558 0.5 0904 1.4 1311 0.3 1954 1.6 2343 0.4	03 DOM	0347 1.5 1108 0.2 1921 1.8 2332 0.3	19 TER	0313 1.7 0638 0.7 0930 1.4 1319 0.3 2000 1.5	03 QUA	0408 1.5 1202 0.3 2011 1.6	19 SEX	0036 0.3 0430 1.5 0753 0.7 1056 1.3 1417 0.7 1806 1.2
04 QUA	0343 1.5 1013 0.1 1858 1.6 2304 0.3	20 SEX	0153 1.5 0515 0.6 0817 1.3 1209 0.4 1926 1.6 2304 0.6	04 SAB	0339 1.4 1121 0.3 1954 1.6 2353 0.5	20 SEG	0313 1.7 0653 0.5 1002 1.5 1408 0.3 2034 1.5	04 SEG	0351 1.4 1158 0.3 2000 1.7	20 QUA	0008 0.2 0400 1.7 0721 0.6 1026 1.4 1411 0.4 2026 1.3	04 QUI	0013 0.3 0428 1.4 0700 1.2 0821 1.2 1245 0.5 2102 1.4	20 SAB	0124 0.5 0506 1.3 0817 0.6 1151 1.4 1523 0.8 1851 1.1 2053 1.1 2251 1.1
05 QUI	0341 1.5 1054 0.3 1945 1.5 2339 0.5	21 SAB	0234 1.7 0611 0.4 0930 1.3 1334 0.4 2013 1.5 2349 0.7	05 DOM	0347 1.4 0709 1.0 0758 1.0 1217 0.4 2038 1.6	21 TER	0021 0.5 0402 1.7 0736 0.4 1058 1.5 1500 0.3 2108 1.4	05 TER	0002 0.4 0402 1.4 0658 1.1 0824 1.2 1249 0.4 2041 1.6	21 QUI	0056 0.4 0449 1.5 0804 0.6 1119 1.4 1506 0.5 1936 1.3	05 SEX	0056 0.5 0456 1.2 0658 1.1 0934 1.3 1324 0.7 1656 1.0 1853 0.9 2208 1.3	21 DOM	0243 0.7 0551 1.0 0845 0.6 1234 1.5 1643 0.8
06 SEX	0347 1.4 1141 0.4 1621 1.1 1711 1.1 2032 1.4	22 DOM	0313 1.7 0700 0.3 1030 1.5 1445 0.4 2104 1.4	06 SEG	0021 0.6 0358 1.3 0700 1.0 0919 1.1 1323 0.5 2117 1.5	22 QUA	0109 0.6 0451 1.4 0811 0.5 1149 1.6 1554 0.3 2149 1.3	06 QUA	0039 0.5 0421 1.2 0658 1.1 0926 1.2 1347 0.5 2124 1.5	22 SEX	0154 0.6 0532 1.3 0843 0.6 1209 1.5 1604 0.5 2019 1.2 2239 1.2	06 SAB	0151 0.7 0506 1.0 0854 0.9 1038 1.4 1413 0.9 1656 1.0 2004 0.7 2341 1.2	22 SEG	0000 1.3 0449 0.7 0823 0.7 0849 0.6 1311 1.6 1815 0.7
07 SAB	0008 0.6 0354 1.3 0715 0.9 0858 1.0 1239 0.5 1756 1.0 2121 1.4	23 SEG	0030 0.8 0356 1.6 0745 0.3 1121 1.6 1543 0.3 2202 1.3	07 TER	0102 0.8 0406 1.1 0700 0.9 1009 1.3 1438 0.5 2206 1.5	23 QUI	0224 0.8 0543 1.1 0853 0.6 1234 1.7 1645 0.3 2309 1.3	07 QUI	0117 0.7 0445 1.1 0656 1.0 1013 1.4 1447 0.6 2226 1.4	23 SAB	0326 0.7 0619 1.0 0902 0.6 1256 1.6 1702 0.6	07 DOM	0700 0.7 1134 1.5 1511 1.0 1709 1.1 2100 0.5	23 TER	0049 1.4 0645 0.5 1354 1.7 1930 0.5
08 DOM	0051 0.8 0400 1.2 0711 0.8 1000 1.1 1351 0.6 2213 1.4	24 TER	0121 0.9 0436 1.4 0819 0.3 1208 1.7 1636 0.3 2306 1.3	08 QUA	0202 0.9 0358 1.0 0658 0.8 1056 1.5 1554 0.5 2309 1.5	24 SEX	0436 0.7 0658 0.8 0909 0.7 1313 1.7 1734 0.3	08 SEX	0232 0.8 0438 0.9 0645 0.8 1100 1.5 1549 0.6 2354 1.3	24 DOM	0019 1.3 0519 0.6 0754 0.7 0900 0.7 1338 1.7 1804 0.5	08 SEG	0100 1.4 0724 0.4 1228 1.6 2151 0.4	24 QUA	0124 1.6 0723 0.2 1436 1.8 2013 0.4
09 SEG	0141 1.0 0353 1.1 0711 0.7 1051 1.3 1513 0.5 2311 1.5	25 QUA	0313 1.0 0504 1.1 0854 0.5 1256 1.8 1723 0.2	09 QUI	0651 0.6 1132 1.6 1700 0.4	25 SAB	0047 1.4 0600 0.5 1358 1.7 1823 0.3	09 SAB	0639 0.6 1151 1.6 1647 0.7 1856 0.8 2056 0.7	25 SEG	0111 1.4 0638 0.4 1415 1.7 1909 0.5	09 TER	0200 1.6 0754 0.2 1324 1.8 2232 0.3	25 QUI	0202 1.7 0758 0.1 1521 1.8 2045 0.2
10 TER	0709 0.6 1124 1.5 1647 0.5	26 QUI	0024 1.4 0613 0.7 0858 0.7 0902 0.6 1339 1.8 1809 0.1	10 SEX	0030 1.5 0653 0.4 1209 1.7 1754 0.4	26 DOM	0138 1.5 0651 0.3 1441 1.7 1915 0.3	10 DOM	0113 1.5 0702 0.4 1241 1.7 1747 0.8 1858 0.8 2200 0.6	26 TER	0147 1.5 0723 0.2 1500 1.7 2009 0.4	10 QUA	0253 1.8 0826 0.0 1423 1.9 2313 0.4	26 SEX	0239 1.8 0824 -0.1 1604 1.9 2108 0.1
11 QUA	0015 1.5 0709 0.4 1202 1.7 1754 0.3	27 SEX	0126 1.5 0638 0.4 1421 1.8 1858 0.1	11 SAB	0141 1.6 0708 0.2 1258 1.8 1839 0.5	27 SEG	0206 1.6 0728 0.1 1523 1.7 2008 0.3	11 SEG	0213 1.6 0734 0.2 1336 1.8 2254 0.5	27 QUA	0217 1.6 0802 0.1 1547 1.8 2056 0.3	11 QUI	0339 1.9 0856 -0.1 1523 1.9	27 SAB	0319 1.8 0858 -0.1 1647 2.0 2134 0.1
12 QUI	0121 1.7 0717 0.2 1243 1.8 1845 0.2	28 SAB	0204 1.6 0708 0.2 1504 1.8 1943 0.1	12 DOM	0234 1.7 0734 0.1 1353 1.9 1913 0.5 2243 0.7	28 TER	0228 1.6 0804 0.1 1606 1.8 2058 0.3	12 TER	0304 1.7 0809 0.1 1438 1.9 2347 0.5	28 QUI	0247 1.7 0838 0.0 1630 1.8 2126 0.2	12 SEX	0002 0.6 0426 1.9 0924 -0.2 1619 2.0 2053 0.6 2323 0.9	28 DOM	0356 1.8 0924 -0.2 1721 2.0 2158 0.0
13 SEX	0213 1.8 0734 0.1 1326 1.8 1921 0.2	29 DOM	0230 1.6 0747 0.0 1551 1.8 2023 0.1	13 SEG	0319 1.8 0804 0.0 1454 1.9 1951 0.6 2202 0.8 2358 0.7	29 QUA	0254 1.7 0841 0.1 1653 1.8 2136 0.3	13 QUA	0354 1.8 0849 0.0 1539 1.9 2009 0.8 2156 0.9	29 SEX	0319 1.7 0908 0.0 1708 1.9 2156 0.2	13 SAB	0104 0.8 0513 1.9 0958 -0.1 1708 2.0 2121 0.4	29 SEG	0430 1.7 0956 -0.1 1756 1.9 2219 0.0
14 SAB	0258 1.9 0756 0.0 1419 1.9 1958 0.2	30 SEG	0249 1.7 0815 0.0 1634 1.8 2106 0.2	14 TER	0404 1.8 0839 0.0 1554 1.9 2019 0.6 2256 0.9	30 QUI	0319 1.7 0911 0.1 1732 1.8 2206 0.2	14 QUI	0043 0.6 0445 1.8 0928 0.0 1639 2.0 2056 0.7 2317 1.0	30 SAB	0349 1.7 0943 -0.1 1749 1.9 2217 0.1	14 DOM	0051 1.1 0238 1.0 0802 1.8 1028 0.0 1754 1.9 2158 0.2	30 TER	0449 1.7 1021 0.0 1834 1.8 2251 0.0
15 DOM	0341 1.9 0817 -0.1 1517 1.9 2021 0.3	31 TER	0309 1.7 0853 0.0 1711 1.8 2145 0.2	15 QUA	0104 0.7 0456 1.7 0917 0.0 1653 1.9 2100 0.6 2353 1.1	15 QUA	0153 0.7 0538 1.7 1013 0.0 1728 2.0 2132 0.6	15 SEX	0153 0.7 0538 1.7 1013 0.0 1728 2.0 2132 0.6	31 DOM	0413 1.6 1013 0.0 1821 1.9 2247 0.1	15 SEG	0141 1.4 0400 1.1 0656 1.6 1104 0.1 1832 1.8 2236 0.0	31 QUA	0430 1.6 1054 0.1 1909 1.7 2317 0.1
16 SEG	0421 1.8 0851 -0.1 1609 1.9 2053 0.4	16 QUI	0221 0.8 0554 1.6 1008 0.1 1743 1.9 2141 0.6	16 QUI	0221 0.8 0554 1.6 1008 0.1 1743 1.9 2141 0.6	16 SAB	0041 1.2 0309 0.9 0634 1.6 1100 0.1 1811 1.9 2208 0.4	16 SAB	0041 1.2 0309 0.9 0634 1.6 1100 0.1 1811 1.9 2208 0.4	16 TER	0223 1.6 0509 1.0 0751 1.5 1147 0.2 1904 1.6 2309 0.0	16 TER		16 TER	

PORTO DE PARANAGUÁ - CAIS OESTE (ESTADO DO PARANÁ) - 2022

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)								
01 QUI	0417 1.5	17 SAB	0009 0.3	01 SAB	0658 1.4	17 SEG	0039 0.5	01 TER	0217 0.6	17 QUI	0239 0.6	01 QUI	0321 0.4	17 SAB	0309 0.5
	1117 0.3		0408 1.4		0421 1.2		0921 1.4		1102 1.5		0953 1.4		1100 1.5		
	1523 1.1		0717 0.8		0706 0.8		1213 1.0		1909 0.8		1302 0.9		1741 0.8		
	1643 1.1		1008 1.2		1015 1.3		1534 1.6		2309 1.4		1621 1.5		2311 1.5		
	1958 1.5		1317 0.8		1319 0.9		1932 0.3				2002 0.4				
2356 0.2	1656 1.3	1621 1.2	2313 1.5		2349 1.6										
	2000 1.0	1943 0.9													
	2115 1.0	2211 1.1													
02 SEX	0434 1.4	18 DOM	0100 0.5	02 DOM	0028 0.5	18 TER	0145 0.7	02 QUA	0434 0.5	18 SEX	0428 0.5	02 SEX	0423 0.4	18 DOM	0438 0.5
	1153 0.5		0447 1.3		0456 1.0		1034 1.4		1154 1.6		1053 1.4		1200 1.5		
	1524 1.1		0754 0.7		0732 0.7		1308 1.1		1851 0.6		1417 0.9		1804 0.6		
	1800 0.9		1109 1.3		1109 1.4		1604 1.5		2354 1.6		1709 1.2				
	2058 1.3		1428 0.9		1458 1.0		2009 0.2				2047 0.5				
	1713 1.1	1600 1.1													
	2004 0.9	1939 0.8													
	2241 1.1	2304 1.3													
03 SAB	0038 0.4	19 SEG	0206 0.7	03 SEG	0149 0.7	19 QUA	0321 0.7	03 QUI	0008 1.7	19 SAB	0539 0.3	03 SAB	0039 1.7	19 SEG	0000 1.6
	0454 1.2		0511 1.0		0526 0.7		0534 0.3		1247 1.7		1156 1.4		0541 0.5		
	0643 1.2		0808 0.6		0736 0.7		1136 1.5		1853 0.4		1623 0.9		1304 1.6		
	0854 1.3		1202 1.5		1200 1.5		1445 1.2				1817 0.9		1839 0.4		
	1224 0.8		1958 0.8		1926 0.7		1626 1.3				2117 0.6				
1547 1.2	2338 1.3	2351 1.5	2051 0.3												
	1906 0.7														
	2209 1.2														
04 DOM	0136 0.7	20 TER	0404 0.7	04 TER	0613 0.5	20 QUI	0549 0.5	04 SEX	0100 1.8	20 DOM	0036 1.7	04 DOM	0123 1.8	20 TER	0049 1.7
	0458 1.0		0543 0.7		1243 1.7		0609 0.1		0621 0.2		1254 1.5		0623 0.4		
	0643 0.9		0811 0.6		1919 0.5		1232 1.6		1339 1.7		1754 0.6		1402 1.6		
	1009 1.3		1245 1.6		1606 1.5		2119 0.4		1909 0.2		2017 0.7		1913 0.2		
	1306 1.0		1936 0.7		2024 0.2						2141 0.7				
1604 1.3															
2000 0.5															
2338 1.3															
05 SEG	0656 0.6	21 QUA	0017 1.4	05 QUA	0030 1.6	21 SEX	0026 1.6	05 SAB	0147 1.9	21 SEG	0117 1.8	05 SEG	0206 1.9	21 QUA	0138 1.8
	1121 1.4		0715 0.5		0643 0.3		0645 0.0		0658 0.1		0639 0.1		0700 0.5		
	1404 1.2		1321 1.7		1206 1.6		1323 1.7		1430 1.8		1343 1.5		1456 1.7		
	1630 1.4		1938 0.5		1500 1.4		1904 0.6		1938 0.1		1843 0.3		1954 0.1		
	2047 0.3				1609 1.4		2009 0.6								
		2102 0.2	2128 0.6												
06 TER	0049 1.5	22 QUI	0058 1.6	06 QUI	0121 1.8	22 SAB	0108 1.8	06 DOM	0230 2.0	22 TER	0204 1.9	06 TER	0253 1.9	22 QUI	0230 1.9
	0719 0.3		0706 0.2		0708 0.1		0713 -0.1		0728 0.1		0717 0.1		0734 0.5		
	1221 1.6		1404 1.8		1413 1.8		1409 1.7		1515 1.8		1423 1.6		1549 1.8		
	1641 1.3		1956 0.3		2138 0.3		1911 0.3		2006 0.0		1921 0.2		2034 0.0		
	2123 0.2														
07 QUA	0145 1.7	23 SEX	0138 1.7	07 SEX	0208 2.0	23 DOM	0151 1.9	07 SEG	0309 2.0	23 QUA	0253 1.9	07 QUA	0330 1.9	23 SEX	0323 2.0
	0745 0.1		0734 0.0		0730 -0.1		0749 -0.1		0800 0.2		0800 0.1		0802 0.5		
	1315 1.8		1451 1.9		1500 1.9		1451 1.7		1602 1.8		1447 1.6		1241 0.8		
	2202 0.3		2017 0.2		2200 0.5		1947 0.1		2041 -0.1		2004 0.1		1639 1.7		
													2117 0.0		
08 QUI	0234 1.9	24 SAB	0221 1.8	08 SAB	0256 2.0	24 SEG	0236 1.9	08 TER	0354 2.0	24 QUI	0339 1.9	08 QUI	0408 1.9	24 SAB	0415 2.0
	0809 -0.1		0802 -0.1		0802 -0.1		0819 -0.1		0824 0.2		0841 0.1		0841 0.5		
	1409 1.9		1536 1.9		1545 1.9		1528 1.7		1653 1.7		1506 1.6		1136 1.0		
	2241 0.4		2043 0.0		2034 -0.1		2019 0.0		2113 0.0		2047 0.1		1354 0.8		
													1734 1.7		
						2206 0.0									
09 SEX	0317 2.0	25 DOM	0304 1.9	09 DOM	0339 2.0	25 TER	0319 1.9	09 QUA	0434 1.9	25 SEX	0426 1.9	09 SEX	0449 1.8	25 DOM	0506 2.0
	0832 -0.2		0834 -0.2		0821 -0.2		0858 0.0		0856 0.3		0917 0.2		0913 0.5		
	1504 1.9		1613 2.0		1526 1.8		1554 1.6		1419 0.9		1513 1.6		1219 1.2		
	2149 0.6		2104 0.0		2008 0.2		2058 0.0		1745 1.6		2121 0.1		1504 0.8		
	2309 0.6								2158 0.0				1830 1.6		
						2256 0.1									
10 SAB	0402 2.0	26 SEG	0345 1.9	10 SEG	0417 2.0	26 QUA	0358 1.9	10 QUI	0509 1.8	26 SAB	0511 1.8	10 SAB	0526 1.8	26 SEG	0558 1.9
	0858 -0.2		0900 -0.2		0853 -0.2		0932 0.1		0924 0.4		0956 0.2		0956 0.5		
	1556 1.9		1654 2.0		1606 1.8		1606 1.5		1251 1.3		1517 1.5		1309 1.4		
	2036 0.4		2126 -0.1		2045 0.0		2136 0.0		1538 0.8		2200 0.1		1615 0.7		
									1843 1.5				1928 1.5		
				2247 0.1		2345 0.1									
11 DOM	0451 2.0	27 TER	0421 1.8	11 TER	0500 1.9	27 QUI	0439 1.9	11 SEX	0553 1.7	27 DOM	0602 1.7	11 DOM	0606 1.7	27 TER	0649 1.8
	0923 -0.2		0924 -0.1		0921 -0.1		1006 0.2		1002 0.5		1030 0.3		1038 0.4		
	1643 1.9		1732 1.9		1647 1.7		1513 1.5		1645 0.7		1524 1.5		1402 1.6		
	2104 0.2		2156 -0.1		2115 -0.1		2208 0.1		1949 1.4		2238 0.1		1719 0.7		
									2343 0.3				2026 1.5		
12 SEG	0534 1.9	28 QUA	0451 1.8	12 QUA	0543 1.8	28 SEX	0517 1.8	12 SAB	0638 1.6	28 SEG	0658 1.6	12 SEG	0653 1.7	28 QUA	0036 0.2
	0956 -0.1		0954 0.0		0958 0.0		1047 0.3		1045 0.6		1102 0.3		0736 1.6		
	1723 1.8		1808 1.7		1721 1.6		1517 1.5		1406 1.6		1526 1.5		1117 0.4		
	2141 0.0		2223 0.0		2156 -0.1		2251 0.2		1745 0.6		2313 0.2		1456 1.7		
									2054 1.4				1815 0.6		
						2124 1.4									
13 TER	0143 1.3	29 QUI	0523 1.7	13 QUI	0219 1.3	29 SAB	0604 1.6	13 DOM	0724 1.5	29 TER	0051 0.4	13 TER	0739 1.6	29 QUI	0126 0.3
	0313 1.2		1015 0.1		1015 0.4		1117 0.5		0754 1.5		1139 0.4		0819 1.5		
	0615 1.7		1411 1.2		1353 1.4		1532 1.4		1123 0.7		1551 1.4		1202 0.5		
	1026 0.0		1554 1.1		1700 0.8		2328 0.3		1454 1.7				1547 1.7		
	1800 1.7		1858 1.6		1741 1.4				1836 0.4				1908 0.6		
2213 -0.1	2300 0.1	2232 0.0		2156 1.4		2223 1.5									
14 QUA	0215 1.5	30 SEX	0554 1.5	14 SEX	0253 1.4	30 DOM	0702 1.5	14 SEG	0356 1.2	30 QUA	0208 0.4	14 QUA	0000 0.3	30 SEX	0224 0.4
	0439 1.2		1047 0.3		0454 1.2		0532 1.1		0819 1.4		0854 1.4		0908 1.3		
	0702 1.5		1423 1.3		0709 1.4		0819 1.4		1208 0.8		1211 0.6		1256 0.5		
	1102 0.2		1702 0.9		1106 0.4		1158 0.6		1539 1.8		1606 1.3		1636 1.6		
	1838 1.5		1954 1.3		1530 1.4		1553 1.4		1919 0.4		1902 1.1		2000 0.5		
2254 0.0	2342 0.2	2306 0.2	1915 1.0	2254 1.5	2045 1.1	2321 1.5									
15 QUI	0258 1.5	31 SAB	0319 1.3	15 SAB	0319 1.3	31 SEG	0039 0.5	15 TER	0015 0.4	31 QUI	0053 0.4	15 QUI	0053 0.4	31 SAB	0324 0.5
	0549 1.1		0556 1.1		0808 1.4		0417 1.1		0608 1.0		0911 1.4		1006 1.3		
	0800 1.3		1134 0.8		1458 1.6		0608 1.0		1258 0.7		1632 1.2		1358 0.7		
	1145 0.4		1149 0.6		1851 0.4		0915 1.4		1243 0.8		1904 1.0		1726 1.3		
	1615 1.3		1551 1.4		2209 1.3		1243 0.8		1604 1.3		2145 1.2		2045 0.6		
1756 1.3	2353 0.3			1913 0.9											
1900 1.3				2139 1.1											
2332 0.1															
16 SEX	0336 1.5	16 DOM	0354 1.3	16 DOM	0641 1.0	16 QUA	0115 0.5	16 QUA	0458 0.9	16 SEX	1004 1.4	16 SEX	0153 0.5	16 SEX	
	0643 0.9		0913 1.2		1226 0.8		0458 0.9		1356 0.8		1658 1.0				
	0902 1.2		1226 0.8		1606 1.3		0641 0.9		1658 1.0		1900 1.0				
	1224 0.6		1606 1.3		1934 1.0		1009 1.4		1658 1.0		2232 1.3				
	1630 1.3		2102 1.0				1336 0.9		1900 1.0						
				1613 1.1											
				1917 0.9											
				2228 1.2											