

TERMINAL PORTUÁRIO DA PONTA DO FÉLIX (ESTADO DO PARANÁ) - 2019

Latitude 25° 27.3 S

Longitude 048° 40.7 W

Fuso +03.0 horas

APPA

31 Componentes

Nível Médio 1.09 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 TER	0000 1.8 0345 0.7 0621 1.1 0917 0.5 1302 1.8 2030 0.6	17 QUI	0111 2.0 0700 0.4 1245 1.7 2134 0.5	01 SEX	0115 1.8 0513 0.8 0802 1.2 1051 0.7 1426 1.9 1928 0.2	17 DOM	0254 2.4 0800 0.3 1506 2.0 1949 0.1	01 SEX	0000 1.7 0319 0.8 0623 1.5 0945 0.5 1313 1.8 1815 0.6	17 DOM	0138 2.2 0854 0.5 1347 1.8 2130 0.3	01 SEG	0134 1.7 0534 0.9 0758 1.0 1024 0.8 1424 2.0 1921 0.0	17 QUA	0300 2.3 0800 0.2 1454 2.1 1945 0.0
02 QUA	0043 1.9 0454 0.7 0736 1.0 1004 1.0 1358 1.9 1917 0.4	18 SEX	0209 2.2 0736 0.3 1424 1.8 1915 0.4	02 SAB	0213 1.8 0638 0.7 0923 1.1 1141 0.9 1513 2.0 2006 -0.1	18 SEG	0345 2.4 0826 0.2 1554 2.1 2019 -0.1	02 SAB	0058 1.7 0434 0.9 0719 1.3 1021 0.5 1406 1.9 1906 0.2	18 SEG	0236 2.3 0754 0.4 1443 2.0 1939 0.2	02 TER	0213 1.8 0656 0.7 1049 0.9 1504 2.1 2002 -0.3	18 QUI	0347 2.2 0826 0.0 1539 2.2 2013 -0.1
03 QUI	0138 1.9 0606 0.6 0900 1.0 1100 0.8 1449 1.9 1951 0.1	19 SAB	0304 2.3 0804 0.2 1523 2.0 1953 0.1	03 DOM	0304 1.9 0734 0.5 1041 1.2 1236 1.0 1600 2.0 2049 -0.3	19 TER	0430 2.5 0902 0.0 1638 2.2 2058 -0.3	03 DOM	0156 1.8 0606 0.8 0847 1.1 1102 0.8 1456 2.0 1951 -0.1	19 TER	0324 2.4 0811 0.2 1528 2.2 2004 -0.1	03 QUA	0239 1.8 0741 0.4 1543 2.1 2043 -0.4	19 SEX	0426 2.1 0902 -0.1 1619 2.2 2054 -0.2
04 SEX	0234 1.9 0704 0.5 1011 1.2 1204 1.0 1536 1.9 2021 -0.1	20 DOM	0358 2.4 0845 0.1 1609 2.0 2028 -0.1	04 SEG	0349 1.9 0811 0.3 1139 1.3 1321 1.2 1643 2.0 2121 -0.4	20 QUA	0515 2.4 0943 0.0 1715 2.2 2138 -0.4	04 SEG	0249 1.8 0711 0.6 1006 1.1 1147 1.0 1538 2.1 2024 -0.3	20 QUA	0409 2.4 0851 0.0 1608 2.3 2041 -0.2	04 QUI	0221 1.9 0809 0.2 1608 2.1 2111 -0.4	20 SAB	0147 1.1 0509 2.0 0941 -0.2 1700 2.2 2124 -0.2
05 SAB	0323 2.0 0754 0.3 1109 1.3 1308 1.1 1619 1.9 2100 -0.3	21 SEG	0447 2.5 0913 0.1 1658 2.1 2106 -0.3	05 TER	0413 1.9 0856 0.2 1230 1.4 1404 1.4 1715 1.9 2202 -0.5	21 QUI	0106 1.0 0200 0.9 0602 2.2 1013 0.0 1800 2.1 2209 -0.4	05 TER	0323 1.9 0758 0.4 1609 2.1 2102 -0.5	21 QUI	0454 2.3 0919 -0.1 1653 2.3 2111 -0.3	05 SEX	0258 2.0 0843 0.1 1639 2.1 2153 -0.4	21 DOM	0102 1.4 0258 1.2 0558 1.8 1013 -0.2 1749 2.1 2202 -0.2
06 DOM	0404 1.9 0836 0.2 1202 1.5 1408 1.2 1704 1.9 2145 -0.4	22 TER	0023 0.8 0128 0.8 0534 2.4 0957 0.5 1304 1.2 1411 1.2 1743 2.1 2154 -0.3	06 QUA	0347 1.9 0930 0.1 1441 1.5 1753 1.8 2245 -0.4	22 SEX	0147 1.1 0317 1.0 0653 2.0 1058 0.0 1417 1.4 1543 1.3 1847 2.0 2254 -0.3	06 QUA	0330 1.9 0836 0.2 1647 2.0 2143 -0.5	22 SEX	0151 1.0 0538 2.1 1000 -0.1 1730 2.2 2154 -0.3	06 SAB	0341 2.1 0908 0.0 1708 2.1 2219 -0.3	22 SEG	0138 1.6 0406 1.2 0653 1.7 1055 -0.2 1836 1.9 2245 0.0
07 SEG	0443 1.9 0909 0.1 1249 1.6 1506 1.3 1753 1.8 2219 -0.4	23 QUA	0106 1.0 0234 0.9 0623 2.2 1038 0.1 1343 1.3 1513 1.2 1824 2.0 2232 -0.3	07 QUI	0411 2.0 1002 0.1 1817 1.7 2317 -0.3	23 SAB	0223 1.3 0443 1.0 0745 1.8 1139 0.2 1500 1.5 1649 1.3 1934 1.9 2332 -0.1	07 QUI	0321 2.0 0904 0.1 1708 2.0 2213 -0.5	23 SAB	0126 1.3 0304 1.1 0621 1.9 1039 -0.1 1811 2.1 2226 -0.2	07 DOM	0426 2.0 0947 -0.1 1753 2.0 2256 -0.1	23 TER	0215 1.8 0511 1.0 0753 1.5 1143 0.0 1656 1.4 1930 1.7 2319 0.1
08 TER	0430 1.8 0953 0.1 1334 1.7 1609 1.4 1838 1.7 2302 -0.3	24 QUI	0154 1.1 0341 0.9 0715 2.1 1111 0.2 1419 1.4 1613 1.2 1911 1.9 2309 -0.2	08 SEX	0453 2.0 1039 0.1 1847 1.7	24 DOM	0302 1.5 0553 0.9 0841 1.7 1215 0.3 1538 1.5 1749 1.2 2021 1.8	08 SEX	0358 2.1 0939 0.0 1736 1.9 2254 -0.4	24 DOM	0204 1.5 0426 1.1 0713 1.7 1111 0.0 1504 1.5 1602 1.4 1900 1.9 2304 -0.1	08 SEG	0517 1.9 1021 -0.1 1406 1.4 1515 1.3 1847 1.9 2328 0.1	24 QUA	0258 1.9 0608 0.8 0853 1.5 1224 0.1 1608 1.4 1800 1.3 2026 1.6
09 QUA	0424 1.8 1028 0.2 1423 1.7 1717 1.4 1919 1.5 2351 -0.2	25 SEX	0234 1.2 0454 0.9 0811 1.9 1158 0.3 1502 1.5 1711 1.1 2002 1.8 2358 -0.1	09 SAB	0000 -0.2 0536 1.9 1109 0.2 1530 1.5 1717 1.5 1943 1.6	25 SEG	0008 0.1 0343 1.6 0651 0.7 0938 1.6 1302 0.4 1609 1.4 1838 1.1 2113 1.7	09 SAB	0438 2.1 1006 0.0 1806 1.9 2323 -0.2	25 SEG	0243 1.7 0539 1.0 0811 1.6 1200 0.1 1532 1.5 1719 1.3 1958 1.8 2349 0.1	09 TER	0621 1.7 1102 0.0 1434 1.4 1639 1.2 1953 1.8	25 QUI	0002 0.3 0339 1.9 0700 0.7 0951 1.5 1313 0.3 1649 1.3 1853 1.1 2124 1.5
10 QUI	0502 1.8 1102 0.2 1511 1.7 1811 1.3 2008 1.5	26 SAB	0315 1.3 0600 0.8 0906 1.8 1247 0.5 1545 1.5 1804 1.0 2056 1.8	10 DOM	0039 0.0 0630 1.0 1154 0.2 1541 1.5 1804 1.3 2049 1.6	26 TER	0056 0.3 0419 1.7 0736 0.6 1032 1.5 1356 0.6 1653 1.3 1911 0.9 2208 1.7	10 DOM	0521 2.0 1049 0.0 1547 1.5 1900 1.8	26 TER	0319 1.8 0632 0.8 0911 1.5 1249 0.3 1606 1.4 1813 1.2 2054 1.7	10 QUA	0006 0.3 0353 1.4 0513 1.3 0743 1.5 1154 0.1 1608 1.4 1751 1.0 2100 1.8	26 SEX	0051 0.5 0417 1.9 0745 0.6 1045 1.6 1411 0.4 1728 1.2 1915 1.0 2221 1.5
11 SEX	0034 -0.1 0549 1.8 1147 0.3 1545 1.6 1854 1.3 2100 1.5	27 DOM	0041 0.1 0358 1.4 0658 0.7 1002 1.7 1326 0.6 1617 1.4 1854 0.9 2147 1.7	11 SEG	0113 0.2 0754 1.6 1239 0.4 1604 1.4 1853 1.1 2151 1.6	27 QUA	0141 0.5 0500 1.7 0813 0.5 1124 1.6 1456 0.7 1724 1.1 1953 0.8 2304 1.7	11 SEG	0000 0.0 0617 1.8 1124 0.1 1506 1.5 1708 1.3 2006 1.7	27 QUA	0026 0.3 0400 1.9 0715 0.6 1008 1.5 1336 0.4 1647 1.3 1900 1.0 2153 1.6	11 QUI	0056 0.5 0402 1.3 0619 1.0 0858 1.5 1247 0.3 1549 1.3 1845 0.8 2204 1.9	27 SAB	0139 0.7 0500 1.7 0817 0.5 1134 1.7 1519 0.5 2313 1.6
12 SAB	0115 0.1 0653 1.7 1221 0.4 1611 1.5 1904 1.2 2151 1.5	28 SEG	0119 0.3 0439 1.5 0749 0.5 1056 1.7 1415 0.8 1658 1.3 1932 0.8 2236 1.7	12 TER	0200 0.5 0908 1.5 1323 0.5 1628 1.4 1926 0.9 2249 1.7	28 QUI	0224 0.7 0541 1.6 0900 0.4 1219 1.7 1613 0.8 1802 0.9 2009 0.7	12 TER	0039 0.2 0741 1.6 1206 0.2 1534 1.5 1813 1.1 2115 1.7	28 QUI	0108 0.5 0439 1.8 0800 0.5 1104 1.6 1434 0.6 1719 1.1 1938 0.9 2249 1.6	12 SEX	0151 0.8 0424 1.3 0706 0.8 1004 1.5 1341 0.5 1621 1.2 1928 0.5 2308 1.9	28 DOM	0226 0.8 0541 1.5 0858 0.6 1221 1.8 1649 0.4
13 DOM	0204 0.3 0823 1.6 1304 0.5 1632 1.4 1923 1.0 2236 1.6	29 TER	0206 0.5 0517 1.5 0828 0.5 1149 1.7 1519 0.8 1739 1.1 2000 0.7 2323 1.7	13 QUA	0258 0.7 0604 0.9 0700 0.9 1017 1.5 1417 0.7 1703 1.2 2002 0.6 2349 1.9	29 SEX	0140 0.5 0500 1.7 0815 0.5 1124 1.6 1456 0.7 1724 1.1 1953 0.8 2304 1.7	13 QUA	0119 0.5 0456 1.2 0636 1.1 0900 1.5 1300 0.4 1606 1.4 1902 0.8 2221 1.8	29 SEX	0200 0.7 0517 1.7 0845 0.4 1200 1.7 1551 0.6 1806 0.9 1956 0.8 2343 1.6	13 SAB	0254 1.0 0454 1.2 0753 0.6 1106 1.6 1447 1.7 1806 1.0 2006 0.4	29 SEG	0000 1.6 0326 0.9 0621 1.3 0923 0.7 1308 1.9 1800 0.2
14 SEG	0258 0.4 0936 1.6 1358 0.6 1658 1.3 1954 0.8 2321 1.7	30 QUA	0300 0.7 0602 1.4 0909 0.5 1243 1.7 1709 0.8 1800 0.8 2023 0.6	14 QUI	0753 0.7 1124 1.6 1532 0.8 1736 1.0 2047 0.5	30 SAB	0211 0.7 0500 1.1 0717 0.9 1009 1.5 1358 0.6 1645 1.2 1951 0.6 2324 1.9	14 QUI	0211 0.9 0500 1.0 0717 0.9 1009 1.5 1358 0.6 1645 1.2 1951 0.6 2324 1.9	30 SAB	0256 0.9 0600 1.5 0917 0.5 1254 1.8 1724 0.5	14 DOM	0009 2.0 0823 0.5 1208 1.7 1604 0.7 1724 0.8 2047 0.3	30 TER	0041 1.6 0449 0.9 0719 1.0 0951 0.8 1354 1.9 1858 0.0
15 TER	0419 0.6 1036 1.6 1458 0.7 1719 1.1 2023 0.7	31 QUI	0017 1.8 0400 0.8 0656 1.3 1000 0.6 1338 1.8 1906 0.5	15 SEX	0053 2.0 0824 0.6 1245 1.7 1717 0.7 1756 0.8 2119 0.4	31 DOM	0321 0.9 0508 1.0 0800 0.6 1119 1.5 1502 0.7 1709 1.0 2026 0.4	15 SEX	0032 2.0 0841 0.5 1234 1.7 1741 0.8 2100 0.3	31 DOM	0039 1.7 0400 0.9 0651 1.3 0958 0.6 1343 1.9 1839 0.2	15 SEG	0111 2.1 0851 0.5 1309 1.9 2113 0.3	15 TER	0209 2.2 0753 0.5 1404 2.0 1917 0.3
16 QUA	0015 1.9 0600 0.5 1134 1.7 1604 0.8 1758 0.9 2056 0.6	16 SAB	0156 2.2 0734 0.5 1411 1.8 2141 0.4	16 SAB	0156 2.2 0734 0.5 1411 1.8 2141 0.4	16 SAB	0032 2.0 0841 0.5 1234 1.7 1741 0.8 2100 0.3	16 SAB	0032 2.0 0841 0.5 1234 1.7 1741 0.8 2100 0.3	16 TER	0209 2.2 0753 0.5 1404 2.0 1917 0.3	16 TER	0209 2.2 0753 0.5 1404 2.0 1917 0.3	16 TER	0209 2.2 0753 0.5 1404 2.0 1917 0.3

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 QUA 0119 1.7 0638 0.7 1434 2.0 1941 -0.2	17 SEX 0315 2.0 0808 0.1 1504 2.1 1951 0.1	01 SAB 0119 1.9 0721 0.4 1511 2.2 2024 -0.1	17 SEG 0108 1.1 0423 1.9 0900 -0.2 1609 2.0 2039 0.2	01 SEG 0251 1.8 0739 0.2 1545 2.3 2043 0.1	17 QUA 0145 1.1 0453 1.9 0919 -0.4 1639 1.9 2056 0.2	01 QUI 0434 2.1 0851 -0.2 1251 0.8 1709 2.4 2138 0.1	17 SAB 0104 1.5 0243 1.4 0545 1.9 1019 -0.5 1854 1.9 2151 0.1
02 QUI 0104 1.8 0717 0.5 1504 2.1 2011 -0.3	18 SAB 0402 2.0 0847 -0.1 1553 2.1 2023 0.0 2358 1.3	02 DOM 0234 1.9 0754 0.2 1556 2.2 2100 -0.1	18 TER 0000 1.5 0211 1.2 0511 1.8 0943 -0.3 1658 2.0 2113 0.1	02 TER 0353 1.9 0815 0.0 1634 2.3 2109 0.1	18 QUI 0017 1.5 0243 1.2 0536 1.9 1002 -0.4 1711 1.8 2138 0.2	02 SEX 0149 1.1 0515 2.1 0928 -0.3 1254 1.9 1358 0.9 1800 2.3 2209 0.1	18 DOM 0206 1.6 0338 1.5 0615 1.8 1100 -0.4 1617 1.9 2221 0.1
03 SEX 0141 1.9 0747 0.3 1541 2.1 2054 -0.3	19 DOM 0136 1.1 0449 1.9 0915 -0.2 1638 2.1 2100 0.0	03 SEG 0345 1.9 0828 0.0 1643 2.3 2134 0.0	19 QUA 0045 1.6 0313 1.2 0602 1.8 1019 -0.3 1747 1.9 2156 0.1	03 QUA 0445 2.0 0900 -0.1 1211 0.9 1319 0.9 1721 2.3 2154 0.1	19 SEX 0108 1.6 0343 1.3 0619 1.8 1049 -0.4 1730 1.8 2211 0.2	03 SAB 0111 1.3 0249 1.1 0602 2.1 1006 -0.3 1328 1.0 1502 0.9 1854 2.1 2258 0.2	19 SEG 0313 1.6 0458 1.6 0651 1.6 1145 -0.2 1658 1.9 2258 0.2
04 SAB 0236 2.0 0813 0.1 1611 2.2 2121 -0.3	20 SEG 0028 1.5 0247 1.2 0536 1.8 1000 -0.3 1719 2.0 2141 0.0	04 TER 0443 1.9 0908 -1.0 1349 1.0 1732 2.2 2204 0.0	20 QUI 0124 1.7 0415 1.2 0658 1.7 1102 -0.3 1828 1.7 2239 0.2	04 QUI 0102 1.2 0415 1.2 0534 2.0 0943 -0.2 1258 1.0 1421 0.9 1815 2.2 2232 0.2	20 SAB 0202 1.7 0449 1.3 0708 1.7 1126 -0.3 1643 1.8 2254 0.2	04 DOM 0158 1.3 0345 1.2 0653 2.0 1054 -0.2 1411 1.2 1617 0.9 1949 2.0 2339 0.3	20 TER 0343 1.6 0600 1.5 0732 1.6 1219 0.0 1743 1.8 2338 0.3
05 DOM 0334 2.0 0851 0.0 1654 2.2 2156 -0.2	21 TER 0108 1.7 0353 1.2 0624 1.7 1043 -0.2 1806 1.9 2215 0.1	05 QUA 0538 1.8 0954 -0.2 1306 1.1 1449 1.0 1824 2.1 2251 0.2	21 SEX 0213 1.8 0515 1.1 0754 1.6 1154 -0.2 1656 1.6 1809 1.6 1909 1.6 2315 0.3	05 SEX 0126 1.3 0308 1.1 0621 1.9 1023 -0.2 1338 1.1 1524 0.9 1911 2.1 2309 0.3	21 DOM 0253 1.7 0551 1.3 0800 1.6 1209 -0.2 1713 1.8 2330 0.3	05 SEG 0439 1.4 0234 1.1 0741 1.9 1136 -0.1 1458 1.3 1734 0.9 2045 1.8	21 QUA 0402 1.5 0617 1.4 0828 1.5 1302 0.2 1845 1.6
06 SEG 0430 1.9 0923 -0.1 1304 1.2 1400 1.2 1741 2.1 2226 0.0	22 QUA 0153 1.8 0454 1.1 0723 1.6 1119 -0.2 1900 1.7 2258 0.2	06 QUI 0158 1.4 0341 1.2 0634 1.8 1039 -0.1 1353 1.2 1551 0.9 1924 2.0 2330 0.4	22 SAB 0302 1.8 0608 1.0 0849 1.6 1301 1.6 1723 1.5 1947 1.5	06 SAB 0206 1.4 0408 1.1 0711 1.9 1524 1.8 1419 1.1 1638 0.9 2009 2.0 2358 0.4	22 SEG 0341 1.6 0639 1.3 0851 1.5 1258 0.0 1802 1.7	06 TER 0017 0.4 0315 1.4 0539 1.1 0824 1.8 1213 0.1 1539 1.4 1832 0.7 2139 1.7	22 QUI 0011 0.3 0411 1.4 0647 1.2 0924 1.5 1347 0.4 2026 1.5
07 TER 0528 1.8 1002 -0.1 1330 1.3 1502 1.2 1836 2.0 2304 0.1	23 QUI 0234 1.9 0553 0.9 0823 1.5 1206 -0.1 1753 1.4 1958 1.6 2343 0.3	07 SEX 0226 1.4 0445 1.7 0732 1.7 1121 0.0 1432 1.2 1656 0.8 2028 2.0	23 DOM 0000 0.4 0349 1.7 0658 1.0 0939 1.6 1326 0.1 1817 1.5	07 DOM 0253 1.4 0506 0.9 0804 1.8 1158 0.0 1506 1.2 1747 0.8 2108 1.9	23 TER 0006 0.4 0417 1.3 0704 1.2 0938 1.5 1347 0.2 1917 1.6	07 QUA 0104 0.5 0400 1.4 0623 0.9 0917 1.8 1300 0.3 1617 1.5 1917 0.6 2230 1.7	23 SEX 0100 0.5 0423 1.3 0706 1.0 1021 1.7 1436 0.6 2151 1.5
08 QUA 0354 1.3 0634 1.7 1053 -0.1 1406 1.3 1608 1.1 1939 1.9 2351 0.3	24 SEX 0317 1.9 0641 0.8 0919 1.5 1300 0.1 1704 1.4 1847 1.3 2056 1.5	08 SAB 0011 0.5 0304 1.4 0539 0.9 0830 1.7 1208 0.1 1513 1.2 1758 0.7 2128 2.0	24 SEG 0047 0.5 0432 1.6 0736 1.0 1023 1.6 1421 0.2 2053 1.5	08 SEG 0049 0.6 0328 1.4 0600 0.9 0900 1.8 1245 0.1 1554 1.2 1845 0.6 2202 1.9	24 QUA 0054 0.5 0447 1.4 0723 1.1 1017 1.6 1434 0.3 2056 1.6	08 QUI 0158 0.7 0439 1.3 0736 0.8 1008 1.8 1349 0.5 1658 1.5 2004 0.5 2321 1.7	24 SAB 0158 0.6 0451 1.2 0749 0.8 1117 1.8 1547 0.8 1804 0.8 1923 0.8 2258 1.5
09 QUI 0300 1.4 0502 1.1 0743 1.6 1139 0.0 1451 1.3 1719 0.9 2047 1.9	25 SAB 0023 0.5 0402 1.8 0717 0.7 1011 1.6 1356 0.2 1759 1.3 1902 1.2 2151 1.5	09 DOM 0102 0.7 0347 1.4 0623 0.8 0923 1.7 1302 0.2 1602 1.2 1854 0.6 2224 1.9	25 TER 0124 0.6 0504 1.4 0800 0.9 1106 1.6 1521 0.3 2143 1.5	09 TER 0134 0.7 0406 1.3 0649 0.8 0951 1.8 1328 0.3 1636 1.2 1932 0.5 2254 1.8	25 QUI 0139 0.6 0502 1.3 0749 1.0 1102 1.7 1534 0.5 2200 1.6	09 SEX 0256 0.8 0508 1.1 0745 0.7 1100 1.8 1436 0.7 1739 1.5 2054 0.5	25 DOM 0300 0.7 0511 1.0 0817 0.6 1217 1.9 1947 0.7
10 SEX 0038 0.6 0326 1.4 0600 0.9 0851 1.5 1224 0.2 1526 1.3 1817 0.7 2151 1.9	26 DOM 0108 0.6 0445 1.7 0758 0.7 1102 1.7 1456 0.3 2236 1.5	10 SEG 0200 0.9 0417 1.3 0704 0.7 1013 1.8 1358 0.4 1645 1.1 1943 0.5 2317 1.9	26 QUA 0209 0.7 0538 1.3 0813 0.9 1103 1.8 1636 0.4 2223 1.6	10 QUA 0223 0.8 0451 1.2 0721 0.7 1108 -0.1 1415 0.5 1715 1.2 2011 0.5 2345 1.8	26 SEX 0226 0.7 0515 1.1 0804 0.8 1149 1.8 1704 0.6 2300 1.6	10 SAB 0013 1.7 0411 0.8 0549 0.9 0854 0.6 1154 1.8 1526 0.8 1821 1.4 2138 0.5	26 SEG 0011 1.6 0415 0.8 0549 0.8 0854 0.5 1321 2.1 1926 0.5
11 SAB 0123 0.8 0402 1.4 0653 0.7 0951 1.6 1317 0.4 1608 1.2 1906 0.5 2249 2.0	27 SEG 0200 0.7 0521 1.5 0828 0.7 1151 1.7 1604 0.4 2304 1.5	11 TER 0300 1.0 0456 1.1 0747 0.6 1104 1.8 1456 0.5 1724 1.0 2021 0.5	27 QUI 0306 0.8 0556 1.1 0838 0.8 1230 1.8 1751 0.3 2311 1.7	11 QUI 0328 0.9 0515 1.0 0756 0.6 1123 1.9 1508 0.6 1800 1.2 2100 0.5	27 SAB 0328 0.8 0543 1.0 0839 0.7 1241 1.9 1828 0.5	11 DOM 0108 1.8 0813 0.5 1251 1.8 1634 0.9 1919 1.2 2217 0.6	27 TER 0132 1.8 0923 0.4 1423 2.3 1947 0.4
12 DOM 0221 1.0 0436 1.3 0730 0.6 1045 1.7 1417 0.5 1653 1.0 1954 0.4 2345 2.0	28 TER 0258 0.8 0600 1.3 0856 0.8 1234 1.8 1719 0.3 2311 0.6	12 QUA 0009 1.9 0808 0.6 1154 1.9 1558 0.6 1815 0.9 2102 0.5	28 SEX 0409 0.8 0609 0.9 0851 0.8 1313 1.9 1851 0.2	12 SEX 0038 1.8 0815 0.6 1213 1.9 1608 0.7 1856 1.1 2151 0.6	28 DOM 0006 1.7 0458 0.7 0604 0.8 0904 0.6 1339 2.1 1913 0.4	12 SEG 0202 1.8 0713 0.3 1351 1.9 1756 0.8 2047 1.1 2306 0.8	28 QUA 0238 2.0 0736 0.2 1515 2.4 2008 0.2
13 SEG 0345 1.1 0458 1.1 0802 0.5 1136 1.8 1524 0.6 1726 0.8 2034 0.4	29 QUA 0400 0.9 0641 1.0 0904 0.8 1311 1.9 1821 0.2 2343 1.7	13 QUI 0104 1.9 0826 0.6 1245 1.9 1711 0.6 1945 0.8 2151 0.6	29 SAB 0008 1.8 0624 0.7 1402 2.0 1930 0.2	13 SAB 0130 1.8 0728 0.5 1308 1.9 1723 0.7 2008 1.0 2241 0.8	29 SEG 0134 1.7 0734 0.5 1439 2.2 1954 0.3	13 TER 0256 1.9 0753 0.0 1447 1.9 1904 0.6 2202 1.2	29 QUI 0326 2.1 0800 0.0 1606 2.4 2047 0.1
14 TER 0041 2.1 0834 0.5 1228 1.9 1702 0.8 1808 0.6 2104 0.4	30 QUI 0524 0.8 0847 0.8 1354 2.0 1908 0.0	14 SEX 0158 1.9 0724 0.4 1339 2.0 1824 0.5 2123 0.9 2245 0.8	30 DOM 0121 1.8 0658 0.5 1454 2.2 2004 0.1	14 DOM 0223 1.8 0734 0.2 1406 1.9 1838 0.6 2138 1.1 2341 0.9	30 TER 0251 1.9 0734 0.3 1532 2.3 2021 0.2	14 QUA 0002 1.0 0343 2.0 0823 -0.2 1534 1.9 1956 0.4 2306 1.3	30 SEX 0409 2.2 0838 -0.2 1654 2.4 2115 0.0
15 QUA 0138 2.1 0828 0.5 1323 2.0 1832 0.4	31 SEX 0023 1.8 0647 0.6 1434 2.1 1954 -0.1	15 SAB 0251 1.9 0754 0.2 1436 2.0 1913 0.4 2232 1.1 2358 1.0	15 SAB 0251 1.9 0754 0.2 1436 2.0 1913 0.4 2232 1.1 2358 1.0	15 SEG 0313 1.9 0806 0.0 1502 2.0 1930 0.5 2243 1.2	31 QUA 0347 2.0 0808 0.0 1621 2.4 2100 0.1	15 QUI 0058 1.1 0421 2.0 0902 -0.4 1606 1.9 2038 0.3	31 SAB 0456 2.3 0909 -0.3 1339 0.9 1741 2.2 2158 0.0
16 QUI 0228 2.1 0745 0.3 1415 2.1 1909 0.3	16 DOM 0339 1.9 0823 -0.1 1524 2.0 1958 0.3 2313 1.3	16 DOM 0339 1.9 0823 -0.1 1524 2.0 1958 0.3 2313 1.3	16 TER 0045 1.9 0404 1.9 0847 -0.2 1554 2.0 2011 0.3 2332 1.4	16 TER 0045 1.9 0404 1.9 0847 -0.2 1554 2.0 2011 0.3 2332 1.4	16 SEX 0006 1.4 0153 1.3 0502 2.0 0945 -0.5 1634 1.9 2111 0.2	16 SEX 0006 1.4 0153 1.3 0502 2.0 0945 -0.5 1634 1.9 2111 0.2	16 SEX 0006 1.4 0153 1.3 0502 2.0 0945 -0.5 1634 1.9 2111 0.2

TERMINAL PORTUÁRIO DA PONTA DO FÉLIX (ESTADO DO PARANÁ) - 2019

Latitude 25° 27.3 S

Longitude 048° 40.7 W

Fuso +03.0 horas

APPA

31 Componentes

Nível Médio 1.09 m

Carta 1822

Setembro		Outubro		Novembro		Dezembro									
HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)	HORA	ALT (m)								
01	0115 1.2 0200 1.2 0539 2.2 0954 -0.3 1319 1.1 1454 1.0 1828 2.1 2238 0.0	17	0541 1.8 1106 -0.2 1643 2.0 2224 0.0	01	0554 2.1 1004 -0.2 1341 1.5 1600 1.1 1858 1.8 2258 -0.1	17	0606 1.9 1108 0.0 1728 1.7 2245 0.0	01	0317 1.4 0402 1.4 0702 1.8 1100 0.2 1432 1.9 1751 1.1 2026 1.5	17	0232 1.3 0449 1.0 0809 1.8 1206 0.5 1508 1.4 1732 1.1 2009 1.5	01	0454 1.4 0738 1.6 1117 0.3 1456 1.9 1806 0.8 2056 1.6	17	0302 1.2 0532 0.8 0900 1.9 1241 0.6 1519 1.4 1758 0.9 2056 1.7
02	0156 1.3 0302 1.3 0619 2.1 1032 -0.3 1400 1.3 1606 1.0 1921 1.9 2311 0.1	18	0621 1.7 1149 0.0 1726 1.8 2302 0.1	02	0643 2.0 1049 -0.1 1415 1.6 1704 1.0 1954 1.6 2341 0.1	18	0228 1.4 0358 1.3 0709 1.8 1153 0.3 1853 1.5 2324 0.1	02	0002 0.0 0339 1.3 0524 1.3 0802 1.7 1143 0.3 1509 1.9 1836 0.7 2123 1.5	18	0000 0.1 0309 1.3 0554 0.8 0917 1.9 1300 0.7 1543 1.4 1817 0.8 2113 1.6	02	0036 0.0 0436 1.3 0604 1.3 0838 1.5 1202 0.5 1539 1.9 1858 0.7 2151 1.6	18	0039 0.2 0345 1.2 0632 0.7 1000 1.9 1328 0.8 1600 1.3 1847 0.7 2153 1.8
03	0228 1.4 0404 1.3 0706 2.0 1108 -0.1 1441 1.5 1717 0.9 2017 1.7	19	0321 1.5 0736 1.6 1219 0.2 1834 1.6 2351 0.2	03	0304 1.4 0449 1.9 0734 1.8 1123 0.1 1456 1.8 1802 0.8 2054 1.5	19	0258 1.4 0513 1.2 0824 1.7 1234 0.5 1551 1.3 1756 1.1 2017 1.4	03	0056 0.2 0413 1.3 0617 1.1 0902 1.6 1224 0.5 1554 1.9 1913 0.5 2215 1.6	19	0056 0.3 0354 1.2 0649 0.6 1019 1.9 1358 0.9 1608 1.3 1902 0.6 2213 1.7	03	0123 0.1 0513 1.3 0658 1.2 0934 1.5 1253 0.6 1619 1.8 1939 0.6 2241 1.7	19	0126 0.4 0424 1.1 0717 0.5 1054 1.9 1424 0.9 1638 1.2 1921 0.6 2243 1.8
04	0000 0.2 0308 1.4 0508 1.2 0800 1.8 1154 0.1 1517 1.6 1815 1.6 2113 0.8	20	0326 1.4 0556 1.2 0853 1.6 1302 0.4 1704 1.3 1756 1.3 2017 1.4	04	0019 0.2 0339 1.4 0551 1.1 0830 1.7 1202 0.3 1534 1.9 1856 0.6 2151 1.5	20	0011 0.3 0324 1.3 0613 0.9 0938 1.8 1319 0.7 1604 1.3 1847 0.9 2134 1.5	04	0151 0.3 0500 1.1 0700 1.0 1002 1.6 1309 0.7 1636 1.8 1958 0.4 2308 1.7	20	0156 0.5 0428 1.1 0734 0.5 1117 2.0 1502 1.0 1643 1.1 1945 0.5 2309 1.8	04	0219 0.3 0608 1.2 0711 1.1 1024 1.5 1341 0.7 1702 1.6 2009 0.6 2329 1.7	20	0221 0.5 0506 1.1 0802 0.4 1149 1.9 1547 1.0 1700 1.0 1956 0.5 2332 1.9
05	0047 0.4 0351 1.4 0602 1.1 0856 1.8 1234 0.3 1558 1.7 1906 0.6 2208 1.6	21	0039 0.4 0354 1.3 0647 1.0 0958 1.7 1356 0.7 1654 1.1 1856 1.0 2145 1.4	05	0108 0.4 0411 1.3 0639 1.0 0926 1.6 1253 0.5 1611 1.9 1939 0.4 2245 1.6	21	0108 0.4 0402 1.2 0700 0.6 1039 1.9 1419 0.9 1630 1.2 1921 0.6 2238 1.6	05	0253 0.4 0553 1.0 0723 0.9 1058 1.6 1404 0.8 1713 1.5 2036 0.5	21	0258 0.6 0508 0.9 0808 0.4 1215 2.0 2009 0.5	05	0324 0.4 1109 1.5 1430 0.8 1745 1.4 2047 0.7	21	0321 0.6 0553 1.0 0851 0.4 1245 1.9 2017 0.5
06	0132 0.5 0421 1.3 0654 0.9 0953 1.7 1311 0.5 1636 1.7 1956 0.4 2302 1.6	22	0132 0.5 0419 1.2 0723 0.7 1100 1.8 1458 0.9 1658 1.0 1939 0.7 2253 1.5	06	0204 0.5 0456 1.1 0709 0.8 1021 1.6 1339 0.7 1654 1.8 2013 0.4 2336 1.7	22	0209 0.6 0441 1.0 0749 0.4 1139 2.0 1643 1.0 1958 0.5 2338 1.7	06	0000 1.8 0402 0.5 1151 1.7 1502 0.7 1758 1.4 2104 0.5	22	0004 1.9 0411 0.6 0556 0.7 0824 1.1 1313 2.1 2030 0.5	06	0011 1.8 0441 0.3 1149 1.6 1526 0.9 1824 1.1 2102 0.8	22	0023 1.9 0436 0.7 0651 0.9 0934 0.5 1341 1.9 1945 0.4
07	0224 0.7 0500 1.1 0726 0.7 1045 1.7 1402 0.7 1711 1.7 2039 0.4 2358 1.7	23	0238 0.7 0458 1.1 0800 0.5 1200 2.0 2008 0.6	07	0309 0.6 0541 0.9 0745 0.7 1117 1.7 1428 0.9 1736 1.6 2058 0.4	23	0323 0.7 0508 0.8 0823 0.3 1239 2.1 2032 0.4	07	0049 1.9 0523 0.3 1239 1.7 1611 0.9 1853 1.1 2138 0.7	23	0058 2.0 0613 0.5 0753 0.5 0923 0.5 1409 2.1 1934 0.3	07	0058 1.9 0554 0.2 1219 1.6 1645 0.8 1938 0.9 2113 0.8	23	0117 2.0 0602 0.7 0834 0.8 1015 0.7 1436 1.9 1943 0.2
08	0341 0.7 0541 0.9 0756 0.6 1138 1.7 1458 0.8 1758 1.5 2113 0.4	24	0000 1.7 0358 0.7 0515 0.8 0841 0.4 1302 2.1 2039 0.5	08	0023 1.8 0447 0.6 0745 0.6 1211 1.7 1530 1.0 1817 1.4 2134 0.5	24	0038 1.9 0854 0.3 1339 2.2 2030 0.4	08	0132 2.0 0624 0.1 1321 1.7 1753 0.8 2013 0.9 2153 0.8	24	0153 2.1 0654 0.4 1500 2.1 1956 0.1	08	0141 1.9 0649 0.1 1209 1.7 1853 0.6	24	0211 2.1 0700 0.5 1000 0.9 1117 0.9 1523 1.9 2008 0.0
09	0051 1.8 0802 0.6 1234 1.8 1600 0.9 1849 1.3 2158 0.5	25	0109 1.9 0904 0.3 1402 2.3 1947 0.4	09	0111 1.9 0608 0.3 1304 1.8 1651 0.9 1917 1.1 2204 0.7	25	0136 2.1 0708 0.3 1436 2.3 1947 0.3	09	0211 2.0 0709 -0.1 1336 1.8 1900 0.5	25	0245 2.2 0732 0.2 1547 2.0 2023 -0.1	09	0217 2.0 0732 0.0 1256 1.8 1924 0.5	25	0304 2.1 0745 0.4 1058 1.2 1239 1.0 1608 1.9 2049 -0.2
10	0141 1.9 0651 0.3 1330 1.8 1719 0.9 1956 1.1 2241 0.7	26	0208 2.0 0728 0.2 1458 2.4 2000 0.2	10	0202 2.0 0700 0.0 1354 1.8 1826 0.7 2100 0.9 2236 0.9	26	0228 2.2 0724 0.1 1523 2.2 2008 0.0	10	0253 2.1 0756 -0.3 1315 1.9 1939 0.3	26	0332 2.2 0806 0.1 1441 1.2 1258 1.1 1630 1.9 2100 -0.3	10	0256 2.1 0806 -0.1 1409 1.8 1945 0.3	26	0354 2.1 0819 0.3 1143 1.4 1347 1.1 1656 1.9 2119 -0.4
11	0228 2.0 0724 0.0 1419 1.9 1847 0.7 2124 1.0 2317 0.9	27	0300 2.2 0749 0.0 1547 2.4 2024 0.0	11	0247 2.1 0741 -0.2 1438 1.8 1919 0.5	27	0313 2.3 0758 -0.1 1609 2.2 2047 -0.1	11	0323 2.1 0832 -0.3 1402 1.9 2002 0.2	27	0413 2.2 0847 0.1 1209 1.4 1408 1.2 1713 1.9 2143 -0.3	11	0334 2.1 0847 -0.1 1517 1.9 2013 0.1	27	0441 2.1 0900 0.2 1221 1.5 1449 1.2 1743 1.9 2200 -0.4
12	0311 2.1 0802 -0.3 1502 1.9 1939 0.5 2300 1.1 2358 1.1	28	0347 2.3 0817 -0.2 1632 2.3 2100 -0.1	12	0321 2.1 0815 -0.4 1434 1.9 1956 0.3	28	0358 2.3 0834 -0.1 1211 1.1 1306 1.1 1654 2.0 2115 -0.2	12	0354 2.1 0902 -0.3 1453 2.0 2032 0.0	28	0500 2.1 0917 0.1 1253 1.6 1513 1.2 1806 1.7 2215 -0.3	12	0413 2.2 0913 -0.1 1609 1.9 2053 -0.1	28	0523 2.0 0941 0.2 1306 1.7 1551 1.2 1832 1.8 2247 -0.4
13	0356 2.1 0845 -0.4 1539 1.9 2015 0.3	29	0426 2.3 0856 -0.3 1717 2.2 2139 -0.2	13	0356 2.1 0856 -0.5 1421 2.0 2026 0.1	29	0443 2.2 0904 -0.2 1243 1.4 1436 1.2 1739 1.9 2158 -0.3	13	0426 2.1 0941 -0.2 1551 1.9 2104 -0.1	29	0551 2.0 0958 0.1 1326 1.8 1617 1.1 1900 1.6 2300 -0.3	13	0502 2.2 0953 0.0 1702 1.9 2130 -0.1	29	0604 1.8 1015 0.2 1354 1.8 1653 1.2 1923 1.7 2324 -0.3
14	0430 2.0 0915 -0.5 1519 1.9 2053 0.1	30	0506 2.3 0932 -0.3 1304 1.3 1449 1.1 1804 2.0 2211 -0.2	14	0421 2.0 0930 -0.4 1502 2.0 2056 0.0	30	0523 2.1 0947 -0.1 1313 1.6 1549 1.1 1828 1.7 2239 -0.2	14	0506 2.1 1008 -0.1 1647 1.9 2145 -0.1	30	0641 1.8 1041 0.2 1408 1.9 1715 1.0 2000 1.6 2350 -0.1	14	0108 1.1 0158 1.1 0554 2.1 1024 0.1 1351 1.3 1456 1.3 1758 1.8 2209 -0.2	30	0654 1.7 1058 0.3 1441 1.8 1751 1.1 2017 1.6
15	0500 2.0 0958 -0.5 1521 2.0 2121 0.1	31	0506 2.3 0932 -0.3 1304 1.3 1449 1.1 1804 2.0 2211 -0.2	15	0447 2.0 1002 -0.3 1547 2.0 2124 0.0	31	0609 2.0 1019 0.0 1354 1.7 1653 1.0 1926 1.6 2313 -0.1	15	0600 2.0 1049 0.1 1751 1.7 2223 -0.1	31	0141 1.1 0304 1.0 0653 2.0 1104 0.3 1408 1.4 1600 1.2 1856 1.8 2300 -0.1	31	0008 -0.2 0456 1.5 0619 1.5 0749 1.5 1143 0.4 1526 1.8 1839 1.0 2111 1.6		
16	0523 1.9 1036 -0.4 1600 2.0 2154 0.0			16	0517 2.0 1039 -0.2 1634 1.9 2200 -0.1			16	0202 1.3 0334 1.2 0702 1.9 1123 0.3 1447 1.4 1621 1.3 1900 1.6 2308 0.0			16	0215 1.2 0417 1.0 0756 2.0 1154 0.4 1449 1.4 1700 1.0 1956 1.7 2351 0.0		