

Maritime Safety Queensland

Queensland Tide Tables Standard Port Tide Times 2019

Includes:

- Highest tides for the year
- Tidal notes and definitions
- Tidal datum details
- Tidal planes
- Sun and moon tables



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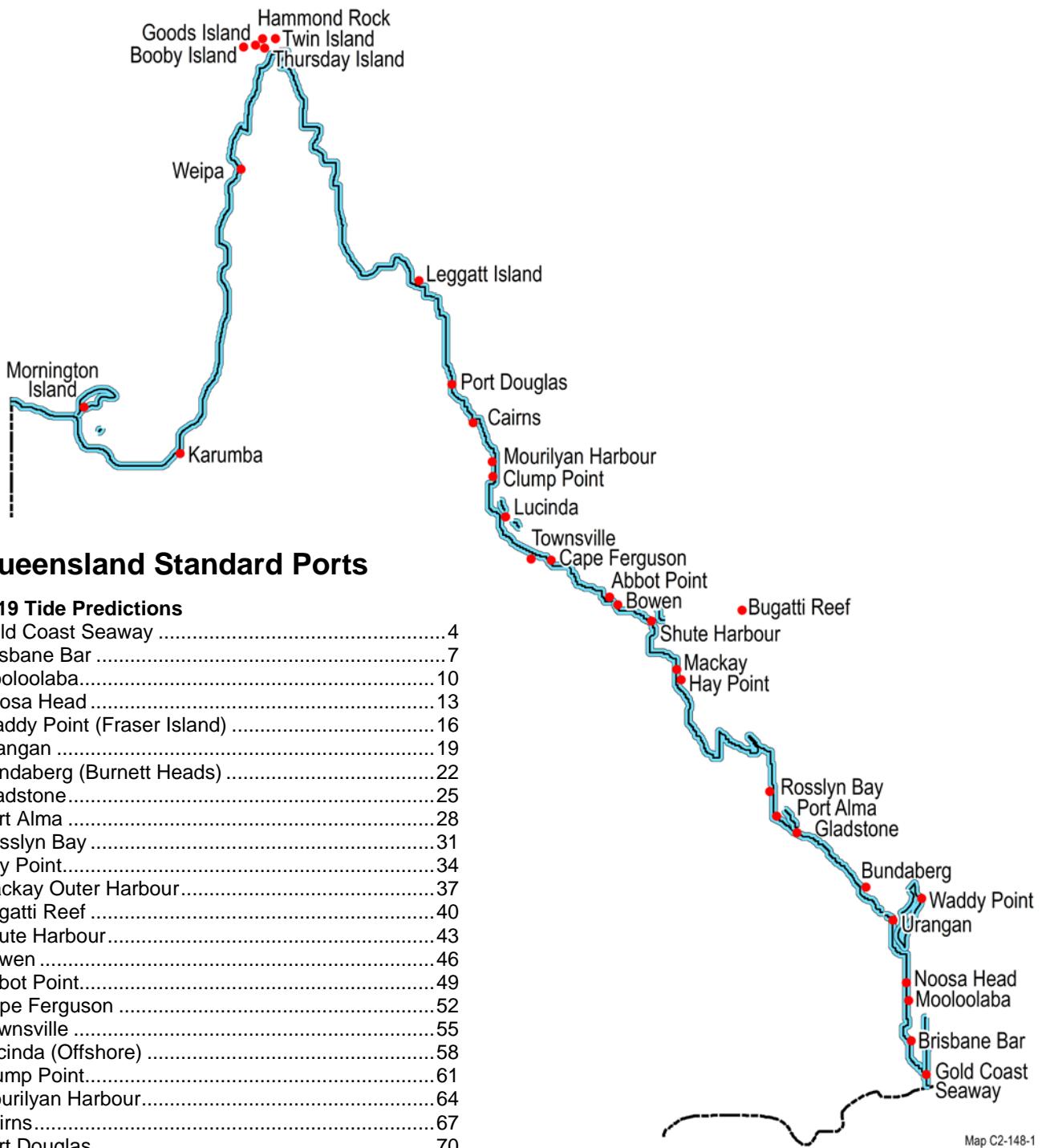
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Map C2-148-1

Queensland Standard Ports

2019 Tide Predictions

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Users of these tables should be aware that the heights and stream velocities shown in this publication are predictions only and that the actual water level and height and stream velocity may vary due to meteorological conditions (including barometric pressure, wind effect and storm surges) and seasonal variations.

AUSTRALIA, EAST COAST – GOLD COAST SEAWAY

2019

LAT 27° 57' S LONG 153° 25' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|-------|---------|------|---------|-------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0505 | 1.37 | 16 0405 | 1.26 | 1 0624 | 1.52 | 16 0530 | 1.56 |
| 1107 | 0.43 | WE 1000 | 0.54 | 1 1250 | 0.38 | 16 1200 | 0.35 |
| TU 1652 | 1.15 | WE 1552 | 1.11 | FR 1826 | 1.05 | SA 1747 | 1.12 |
| 2303 | 0.18 | 2207 | 0.24 | | | 2333 | 0.19 |
| 2 0557 | 1.47 | 17 0502 | 1.39 | 2 0010 | 0.26 | 17 0626 | 1.70 |
| 1209 | 0.38 | 1113 | 0.46 | 2 0706 | 1.57 | 17 1254 | 0.22 |
| WE 1748 | 1.11 | TH 1658 | 1.11 | SA 1330 | 0.32 | SU 1845 | 1.20 |
| 2347 | 0.17 | 2301 | 0.18 | 1909 | 1.09 | | |
| 3 0643 | 1.55 | 18 0555 | 1.54 | 3 0050 | 0.23 | 18 0028 | 0.09 |
| 1301 | 0.33 | 1214 | 0.35 | 3 0742 | 1.61 | 18 0717 | 1.82 |
| TH 1837 | 1.10 | FR 1759 | 1.13 | SU 1406 | 0.27 | MO 1343 | 0.11 |
| | | 2351 | 0.11 | 1947 | 1.13 | 1937 | 1.28 |
| 4 0027 | 0.16 | 19 0644 | 1.68 | 4 0127 | 0.20 | 19 0119 | 0.01 |
| 0723 | 1.60 | 1309 | 0.24 | 4 0817 | 1.63 | 19 0806 | 1.89 |
| FR 1345 | 0.28 | SA 1854 | 1.17 | MO 1439 | 0.24 | TU 1429 | 0.04 |
| 1921 | 1.09 | | | 2021 | 1.16 | 2027 | 1.35 |
| 5 0104 | 0.15 | 20 0040 | 0.04 | 5 0201 | 0.18 | 20 0209 | -0.04 |
| 0801 | 1.64 | 0733 | 1.80 | 5 0849 | 1.63 | 20 0853 | 1.91 |
| SA 1425 | 0.25 | SU 1359 | 0.13 | TU 1511 | 0.22 | WE 1513 | 0.00 |
| 2000 | 1.10 | 1947 | 1.21 | ● 2054 | 1.18 | ○ 2114 | 1.40 |
| 6 0139 | 0.15 | 21 0129 | -0.01 | 6 0234 | 0.17 | 21 0259 | -0.04 |
| 0836 | 1.65 | 0821 | 1.88 | 6 0921 | 1.62 | 21 0938 | 1.86 |
| SU 1502 | 0.23 | MO 1448 | 0.06 | WE 1542 | 0.21 | TH 1557 | 0.01 |
| ● 2037 | 1.10 | 2038 | 1.24 | 2128 | 1.20 | 2202 | 1.43 |
| 7 0213 | 0.16 | 22 0218 | -0.04 | 7 0308 | 0.19 | 22 0350 | 0.02 |
| 0909 | 1.64 | 0909 | 1.91 | 7 0952 | 1.58 | 22 1023 | 1.75 |
| MO 1538 | 0.22 | TU 1536 | 0.02 | TH 1613 | 0.22 | FR 1639 | 0.05 |
| 2114 | 1.10 | 2128 | 1.26 | 2202 | 1.20 | 2251 | 1.42 |
| 8 0248 | 0.18 | 23 0309 | -0.03 | 8 0343 | 0.22 | 23 0442 | 0.13 |
| 0943 | 1.61 | 0957 | 1.89 | 8 1024 | 1.53 | 23 1107 | 1.60 |
| TU 1612 | 0.23 | WE 1624 | 0.02 | FR 1645 | 0.23 | SA 1722 | 0.13 |
| 2150 | 1.09 | 2220 | 1.26 | 2239 | 1.20 | 2341 | 1.40 |
| 9 0323 | 0.21 | 24 0400 | 0.03 | 9 0421 | 0.28 | 24 0536 | 0.27 |
| 1018 | 1.57 | 1045 | 1.81 | 9 1056 | 1.46 | 24 1151 | 1.41 |
| WE 1647 | 0.24 | TH 1713 | 0.05 | SA 1717 | 0.25 | SU 1805 | 0.22 |
| 2228 | 1.07 | 2313 | 1.25 | 2319 | 1.20 | | |
| 10 0400 | 0.26 | 25 0454 | 0.13 | 10 0501 | 0.35 | 25 0038 | 1.36 |
| 1053 | 1.52 | 1134 | 1.68 | 10 1130 | 1.38 | 25 0638 | 0.40 |
| TH 1724 | 0.26 | FR 1800 | 0.11 | SU 1752 | 0.28 | MO 1239 | 1.23 |
| 2308 | 1.06 | | | | | 1848 | 0.31 |
| 11 0440 | 0.32 | 26 0010 | 1.24 | 11 0005 | 1.20 | 26 0142 | 1.33 |
| 1129 | 1.45 | 0552 | 0.25 | 11 0547 | 0.44 | 26 0751 | 0.51 |
| FR 1802 | 0.28 | SA 1222 | 1.52 | MO 1207 | 1.28 | TU 1335 | 1.08 |
| 2355 | 1.04 | 1849 | 0.17 | 1830 | 0.31 | ● 1939 | 0.40 |
| 12 0524 | 0.39 | 27 0113 | 1.23 | 12 0059 | 1.20 | 27 0253 | 1.32 |
| 1208 | 1.37 | 0656 | 0.37 | 12 0645 | 0.51 | 27 0919 | 0.56 |
| SA 1843 | 0.30 | SU 1313 | 1.35 | TU 1252 | 1.19 | WE 1449 | 0.99 |
| | | 1939 | 0.24 | 1916 | 0.34 | 2043 | 0.45 |
| 13 0050 | 1.04 | 28 0222 | 1.24 | 13 0207 | 1.23 | 28 0405 | 1.35 |
| 0617 | 0.47 | 0810 | 0.48 | 13 0801 | 0.56 | 28 1041 | 0.53 |
| SU 1252 | 1.29 | MO 1411 | 1.19 | WE 1356 | 1.10 | TH 1611 | 0.96 |
| 1928 | 0.31 | ● 2033 | 0.29 | ● 2014 | 0.36 | 2157 | 0.46 |
| 14 0154 | 1.07 | 29 0334 | 1.29 | 14 0321 | 1.31 | 29 0315 | 1.35 |
| 0720 | 0.53 | 0937 | 0.52 | 14 0932 | 0.55 | 29 1007 | 0.53 |
| MO 1342 | 1.21 | TU 1519 | 1.08 | TH 1518 | 1.05 | TH 1332 | 1.04 |
| ● 2018 | 0.31 | 2132 | 0.32 | 2124 | 0.34 | FR 1548 | 0.96 |
| 15 0301 | 1.14 | 30 0440 | 1.37 | 15 0429 | 1.42 | 30 0422 | 1.37 |
| 0837 | 0.56 | 1058 | 0.50 | 15 1056 | 0.47 | 30 1105 | 0.48 |
| TU 1444 | 1.15 | WE 1630 | 1.03 | FR 1639 | 1.06 | FR 1507 | 1.01 |
| 2112 | 0.29 | 2231 | 0.32 | 2232 | 0.28 | 2053 | 0.43 |
| 31 0536 | 1.45 | | | | | | |
| 1201 | 0.44 | | | | | | |
| TH 1734 | 1.02 | | | | | | |
| 2324 | 0.30 | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – GOLD COAST SEAWAY

2019

LAT 27° 57' S LONG 153° 25' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | |
|---|--|---|--|---|--|--|--|--|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|--------|---|------|---|--|--|--|--|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | |
| 1 0557 1.42 1214 0.29 WE 1832 1.35 | 16 0604 1.54 1218 0.13 TH 1850 1.59 | 1 0037 0.42 0633 1.33 SA 1233 0.20 1912 1.61 | 16 0132 0.31 0715 1.25 SU 1306 0.17 2000 1.75 | 1 0102 0.36 0647 1.21 MO 1237 0.15 1929 1.74 | 16 0208 0.29 0744 1.13 TU 1325 0.20 2022 1.70 | 1 0222 0.11 0811 1.23 TH 1352 -0.00 ● 2043 1.89 | 16 0254 0.19 0841 1.17 FR 1422 0.16 2105 1.59 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 0023 0.41 0636 1.44 TH 1245 0.24 1906 1.45 | 17 0047 0.26 0652 1.50 FR 1258 0.11 1935 1.69 | 2 0121 0.36 0713 1.31 SU 1308 0.16 1951 1.70 | 17 0220 0.29 0759 1.21 MO 1343 0.19 ○ 2040 1.76 | 2 0150 0.28 0735 1.22 TU 1320 0.11 2013 1.82 | 17 0247 0.26 0824 1.13 WE 1401 0.20 ○ 2058 1.69 | 2 0309 0.05 0902 1.26 FR 1442 -0.02 2130 1.89 | 17 0325 0.18 0914 1.18 SA 1456 0.17 2137 1.55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 0102 0.36 0711 1.44 FR 1316 0.20 1941 1.54 | 18 0139 0.23 0737 1.44 SA 1336 0.12 2017 1.75 | 3 0204 0.31 0755 1.29 MO 1344 0.15 ● 2032 1.77 | 18 0305 0.29 0841 1.17 TU 1420 0.22 2119 1.74 | 3 0238 0.21 0823 1.22 WE 1405 0.09 ● 2059 1.87 | 18 0324 0.26 0902 1.14 TH 1437 0.22 2132 1.66 | 3 0356 0.03 0952 1.28 SA 1534 0.01 2217 1.83 | 18 0356 0.19 0950 1.19 SU 1531 0.21 2208 1.49 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 0141 0.32 0746 1.42 SA 1346 0.18 2016 1.61 | 19 0229 0.23 0820 1.36 SU 1412 0.15 ○ 2059 1.77 | 4 0250 0.27 0838 1.26 TU 1423 0.15 | 19 0347 0.30 0923 1.14 WE 1455 0.26 2114 1.81 | 4 0326 0.17 0913 1.22 TH 1453 0.09 | 19 0359 0.26 0939 1.13 FR 1513 0.24 2146 1.88 | 4 0443 0.04 1044 1.29 SU 1628 0.09 | 19 0428 0.20 1026 1.19 MO 1609 0.26 2305 1.72 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 0220 0.29 0822 1.39 SU 1417 0.17 ● 2052 1.67 | 20 0317 0.26 0903 1.27 MO 1447 0.20 2140 1.75 | 5 0338 0.26 0924 1.22 WE 1506 0.18 | 20 0429 0.32 1004 1.11 TH 1532 0.31 2159 1.82 | 5 0417 0.15 1006 1.20 FR 1543 0.13 | 20 0435 0.27 1017 1.12 SA 1550 0.28 2235 1.84 | 5 0531 0.08 1140 1.29 MO 1724 0.19 | 20 0500 0.23 1106 1.19 TU 1649 0.33 2353 1.57 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 0301 0.28 0859 1.34 MO 1451 0.18 2131 1.71 | 21 0405 0.30 0945 1.19 TU 1521 0.27 2220 1.71 | 6 0429 0.26 1014 1.18 TH 1552 0.23 | 21 0510 0.35 1045 1.08 FR 1611 0.37 2247 1.79 | 6 0509 0.15 1101 1.19 SA 1638 0.19 | 21 0510 0.29 1057 1.11 SU 1630 0.34 2326 1.77 | 6 0619 0.13 1240 1.28 TU 1826 0.31 | 21 0534 0.26 1149 1.19 WE 1734 0.42 2349 1.22 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 0346 0.30 0938 1.28 TU 1526 0.22 2211 1.71 | 22 0452 0.35 1028 1.12 WE 1556 0.35 2301 1.64 | 7 0524 0.27 1110 1.13 FR 1644 0.30 | 22 0551 0.37 1130 1.06 SA 1655 0.43 2340 1.73 | 7 0602 0.17 1202 1.18 SU 1736 0.27 | 22 0547 0.31 1141 1.10 MO 1714 0.41 2353 1.40 | 7 0045 1.39 0709 0.20 WE 1346 1.29 | 22 0611 0.29 1240 1.19 TH 1829 0.49 1938 0.42 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 0435 0.32 1022 1.20 WE 1606 0.28 2256 1.69 | 23 0540 0.40 1113 1.06 TH 1635 0.43 2343 1.56 | 8 0623 0.29 1216 1.11 SA 1746 0.37 | 23 0635 0.39 1222 1.04 SU 1745 0.50 | 8 0019 1.66 0655 0.20 MO 1306 1.19 | 23 0627 0.33 1232 1.10 TU 1804 0.49 1841 0.36 | 8 0143 1.23 0802 0.25 TH 1457 1.33 | 23 0033 1.12 0654 0.32 FR 1342 1.21 ● 2103 0.48 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 0529 0.36 1113 1.13 TH 1652 0.35 2348 1.65 | 24 0630 0.44 1205 1.02 FR 1721 0.50 | 9 0038 1.66 0724 0.29 SU 1328 1.11 | 24 0037 1.42 0722 0.40 MO 1321 1.05 1854 0.43 | 9 0114 1.53 0749 0.22 TU 1415 1.24 | 24 0035 1.30 0709 0.34 WE 1330 1.12 ● 1953 0.43 | 9 0250 1.10 0859 0.29 FR 1606 1.39 | 24 0132 1.03 0747 0.34 SA 1453 1.26 2229 0.47 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 0631 0.39 1217 1.06 FR 1750 0.43 | 25 0029 1.48 0723 0.46 SA 1305 1.00 1819 0.57 | 10 0139 1.59 0824 0.28 MO 1440 1.17 | 25 0126 1.35 0812 0.39 TU 1426 1.09 ● 2010 0.46 | 10 0213 1.41 0843 0.24 WE 1524 1.31 | 25 0123 1.22 0756 0.35 TH 1435 1.17 2111 0.48 | 10 0402 1.03 0959 0.30 SA 1708 1.46 | 25 0253 0.98 0853 0.34 SU 1602 1.36 2337 0.42 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 0050 1.60 0742 0.40 SA 1337 1.05 | 26 0122 1.41 0819 0.46 SU 1415 1.01 1929 0.62 | 11 0242 1.52 0921 0.26 TU 1548 1.27 | 26 0221 1.29 0901 0.37 WE 1530 1.16 2125 0.46 | 11 0315 1.29 0937 0.24 TH 1629 1.41 | 26 0222 1.14 0846 0.34 FR 1539 1.26 2231 0.47 | 11 0509 1.01 1057 0.29 SU 1801 1.53 | 26 0413 0.99 1002 0.29 MO 1703 1.48 2338 0.34 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 0159 1.56 0853 0.37 SU 1459 1.09 | 27 0220 1.36 0913 0.44 MO 1525 1.07 ● 2049 0.63 | 12 0344 1.46 1013 0.23 WE 1649 1.39 | 27 0318 1.25 0949 0.34 TH 1627 1.27 2237 0.43 | 12 0418 1.21 1029 0.24 FR 1727 1.51 | 27 0328 1.10 0940 0.31 SA 1638 1.37 2341 0.43 | 12 0029 0.35 0605 1.04 MO 1148 0.26 | 27 0520 1.04 1104 0.20 TU 1759 1.61 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 0309 1.56 0954 0.31 MO 1610 1.20 | 28 0320 1.34 1002 0.40 TU 1624 1.16 2201 0.60 | 13 0443 1.41 1102 0.20 TH 1743 1.51 | 28 0415 1.22 1032 0.29 FR 1717 1.39 2343 0.39 | 13 0519 1.16 1118 0.23 SA 1818 1.60 | 28 0434 1.08 1034 0.26 SU 1732 1.50 2355 0.41 | 13 0111 0.29 0651 1.07 TU 1232 0.22 | 28 0029 0.21 0617 1.12 WE 1200 0.10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 0413 1.56 1048 0.24 TU 1710 1.33 | 29 0416 1.33 1046 0.34 WE 1713 1.27 2300 0.55 | 14 0538 1.35 1146 0.17 FR 1833 1.62 | 29 0508 1.21 1114 0.24 SA 1802 1.52 | 14 0038 0.37 0613 1.14 SU 1204 0.22 | 29 0534 1.10 1125 0.19 MO 1821 1.63 1903 1.66 | 14 0149 0.24 0730 1.11 WE 1311 0.19 | 29 0116 0.09 0709 1.21 TH 1252 -0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 0512 1.56 1135 0.17 WE 1802 1.47 | 30 0506 1.33 1124 0.29 TH 1755 1.39 2351 0.48 | 15 0041 0.35 0628 1.30 SA 1227 0.16 | 30 0014 0.44 0558 1.21 SU 1155 0.19 1918 1.70 | 15 0125 0.32 0701 1.13 MO 1245 0.20 | 30 0047 0.30 0629 1.14 TU 1214 0.12 1944 1.69 | 15 0222 0.21 0807 1.15 TH 1347 0.17 | 30 0200 0.00 0758 1.29 FR 1342 -0.07 | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 0551 1.33 1200 0.24 FR 1834 1.50 | | | | | | 31 0135 0.20 0721 1.19 WE 1304 0.05 1956 1.84 | | 31 0243 -0.05 0846 1.36 SA 1432 -0.09 2109 1.82 | | | | | | | | | | | | | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – GOLD COAST SEAWAY

2019

LAT 27° 57' S LONG 153° 25' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|-------|---------|-------|---------|-------|---------|-------|----------|------|---------|-------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0327 | -0.06 | 16 0316 | 0.12 | 1 0335 | -0.05 | 16 0304 | 0.09 | 1 0412 | 0.17 | 16 0339 | 0.17 | 1 0420 | 0.28 | 16 0413 | 0.18 |
| 0934 | 1.40 | 0923 | 1.30 | 1001 | 1.55 | 0933 | 1.46 | 1113 | 1.56 | 1034 | 1.58 | 1130 | 1.51 | 1111 | 1.66 |
| SU 1523 | -0.05 | MO 1514 | 0.17 | TU 1605 | 0.04 | WE 1539 | 0.20 | FR 1748 | 0.26 | SA 1705 | 0.24 | SU 1816 | 0.29 | MO 1751 | 0.18 |
| 2154 | 1.73 | 2136 | 1.40 | 2212 | 1.39 | 2139 | 1.21 | 2324 | 0.96 | 2246 | 1.00 | 2351 | 0.91 | 2337 | 1.01 |
| 2 0411 | -0.04 | 17 0345 | 0.13 | 2 0414 | 0.03 | 17 0333 | 0.13 | 2 0451 | 0.28 | 17 0422 | 0.23 | 2 0506 | 0.37 | 17 0509 | 0.25 |
| 1023 | 1.42 | 0958 | 1.31 | 1050 | 1.53 | 1010 | 1.47 | 1203 | 1.46 | 1122 | 1.54 | 1215 | 1.42 | 1203 | 1.60 |
| MO 1616 | 0.03 | TU 1551 | 0.22 | WE 1701 | 0.16 | TH 1621 | 0.25 | SA 1850 | 0.33 | SU 1802 | 0.27 | MO 1906 | 0.32 | TU 1846 | 0.19 |
| 2239 | 1.58 | 2206 | 1.32 | 2258 | 1.21 | 2215 | 1.13 | 2343 | 0.94 | | | | | | |
| 3 0454 | 0.03 | 18 0414 | 0.16 | 3 0454 | 0.14 | 18 0406 | 0.18 | 3 0024 | 0.88 | 18 0515 | 0.30 | 3 0050 | 0.89 | 18 0045 | 1.01 |
| 1115 | 1.41 | 1035 | 1.32 | 1141 | 1.48 | 1051 | 1.45 | 0539 | 0.39 | 1217 | 1.50 | 0602 | 0.45 | 0614 | 0.32 |
| TU 1711 | 0.16 | WE 1631 | 0.28 | TH 1802 | 0.28 | FR 1708 | 0.31 | SU 1258 | 1.37 | MO 1906 | 0.28 | TU 1304 | 1.33 | WE 1259 | 1.53 |
| 2325 | 1.40 | 2239 | 1.23 | 2348 | 1.05 | 2256 | 1.04 | 1956 | 0.36 | | | 2000 | 0.34 | 1944 | 0.19 |
| 4 0538 | 0.12 | 19 0445 | 0.21 | 4 0536 | 0.25 | 19 0442 | 0.25 | 4 0138 | 0.84 | 19 0059 | 0.91 | 4 0200 | 0.91 | 19 0159 | 1.05 |
| 1212 | 1.38 | 1115 | 1.31 | 1239 | 1.41 | 1137 | 1.42 | 0645 | 0.47 | 0624 | 0.36 | 0711 | 0.51 | 0726 | 0.37 |
| WE 1813 | 0.29 | TH 1716 | 0.36 | FR 1914 | 0.37 | SA 1805 | 0.36 | MO 1359 | 1.30 | TU 1321 | 1.46 | WE 1359 | 1.27 | TH 1400 | 1.45 |
| 2315 | 1.12 | | | | | 2346 | 0.95 | 2101 | 0.36 | 2015 | 0.26 | 2053 | 0.32 | 2043 | 0.18 |
| 5 0015 | 1.21 | 20 0520 | 0.26 | 5 0050 | 0.92 | 20 0529 | 0.32 | 5 0259 | 0.87 | 20 0222 | 0.95 | 5 0311 | 0.96 | 20 0310 | 1.14 |
| 0624 | 0.21 | 1202 | 1.30 | 0626 | 0.36 | 1233 | 1.38 | 0809 | 0.51 | 0744 | 0.39 | 0829 | 0.54 | 0843 | 0.39 |
| TH 1314 | 1.35 | FR 1811 | 0.43 | 1344 | 1.35 | SU 1916 | 0.38 | TU 1504 | 1.26 | WE 1429 | 1.44 | TH 1458 | 1.22 | FR 1503 | 1.37 |
| 1927 | 0.41 | | | 2036 | 0.41 | | | 2158 | 0.33 | 2119 | 0.20 | 2144 | 0.29 | 2138 | 0.15 |
| 6 0115 | 1.04 | 21 0000 | 1.02 | 6 0211 | 0.85 | 21 0100 | 0.89 | 6 0406 | 0.95 | 21 0336 | 1.05 | 6 0412 | 1.06 | 21 0416 | 1.26 |
| 0716 | 0.30 | 0602 | 0.32 | 0734 | 0.43 | 0635 | 0.38 | 0929 | 0.49 | 0904 | 0.36 | 0944 | 0.52 | 0959 | 0.38 |
| FR 1424 | 1.34 | SA 1301 | 1.29 | SU 1454 | 1.31 | MO 1344 | 1.37 | WE 1604 | 1.26 | TH 1536 | 1.44 | FR 1555 | 1.19 | SA 1606 | 1.30 |
| 2056 | 0.46 | 1923 | 0.47 | 2150 | 0.39 | 2039 | 0.36 | 2245 | 0.27 | 2216 | 0.13 | 2229 | 0.24 | 2230 | 0.12 |
| 7 0230 | 0.94 | 22 0106 | 0.93 | 7 0336 | 0.87 | 22 0234 | 0.89 | 7 1047 | 1.05 | 22 1016 | 0.30 | 7 1052 | 1.17 | 22 1112 | 0.34 |
| 0819 | 0.36 | 0702 | 0.36 | 0858 | 0.46 | 0800 | 0.39 | 1656 | 1.27 | FR 1637 | 1.44 | 1649 | 1.18 | SU 1707 | 1.25 |
| SA 1537 | 1.35 | SU 1413 | 1.30 | 1602 | 1.31 | TU 1458 | 1.40 | 2324 | 0.21 | 2305 | 0.06 | 2309 | 0.19 | 2318 | 0.09 |
| 2219 | 0.44 | 2054 | 0.46 | 2249 | 0.34 | 2151 | 0.28 | | | | | | | | |
| 8 0352 | 0.91 | 23 0239 | 0.90 | 8 0443 | 0.94 | 23 0354 | 0.98 | 8 1142 | 1.15 | 23 1120 | 0.23 | 8 1144 | 1.28 | 23 1217 | 0.28 |
| 0932 | 0.38 | 0820 | 0.37 | 1012 | 0.43 | 0924 | 0.34 | 1741 | 1.28 | SA 1732 | 1.42 | 1736 | 1.18 | MO 1803 | 1.20 |
| SU 1642 | 1.39 | MO 1528 | 1.36 | 1658 | 1.33 | WE 1607 | 1.46 | 2358 | 0.16 | 2349 | 0.00 | 2345 | 0.15 | | |
| 2322 | 0.38 | 2216 | 0.37 | 2334 | 0.28 | 2249 | 0.17 | | | | | | | | |
| 9 0502 | 0.94 | 24 0404 | 0.95 | 9 0533 | 1.03 | 24 0457 | 1.11 | 9 1229 | 1.25 | 24 1219 | 0.16 | 9 1229 | 1.40 | 24 0003 | 0.07 |
| 1039 | 0.36 | 0941 | 0.32 | 1110 | 0.36 | 1033 | 0.24 | 1211 | 0.31 | 1219 | 0.16 | 0655 | 1.64 | | |
| MO 1736 | 1.43 | TU 1636 | 1.47 | 1745 | 1.37 | TH 1707 | 1.53 | 1819 | 1.29 | SU 1824 | 1.39 | 1819 | 1.17 | TU 1313 | 0.23 |
| 2317 | 0.25 | | | | | 2337 | 0.06 | | | | | | | 1855 | 1.17 |
| 10 0008 | 0.31 | 25 0510 | 1.05 | 10 0010 | 0.21 | 25 0550 | 1.25 | 10 0029 | 0.11 | 25 0708 | -0.03 | 10 0019 | 0.11 | 25 0741 | 0.06 |
| 0555 | 1.01 | 1049 | 0.21 | 0613 | 1.12 | 1133 | 0.14 | 0652 | 1.35 | 1314 | 0.12 | 0700 | 1.50 | 0741 | 1.71 |
| TU 1134 | 0.30 | WE 1734 | 1.58 | 1156 | 0.29 | 1800 | 1.58 | 1251 | 0.26 | 1911 | 1.34 | 1313 | 0.30 | WE 1403 | 0.19 |
| 1821 | 1.47 | | | 1824 | 1.39 | | | 1856 | 1.29 | | | 1859 | 1.16 | 1943 | 1.13 |
| 11 0047 | 0.24 | 26 0006 | 0.12 | 11 0043 | 0.16 | 26 0021 | -0.03 | 11 0059 | 0.08 | 26 0753 | 1.69 | 1052 | 0.09 | 26 0824 | 0.07 |
| 0636 | 1.08 | 0605 | 1.17 | 0648 | 1.20 | 0638 | 1.39 | 0726 | 1.43 | 1407 | 0.10 | 0737 | 1.59 | 0824 | 1.74 |
| WE 1218 | 0.24 | TH 1147 | 0.09 | 1236 | 0.23 | SA 1228 | 0.05 | 1330 | 0.22 | 1957 | 1.26 | 1355 | 0.25 | TH 1451 | 0.17 |
| 1859 | 1.50 | 1826 | 1.68 | 1859 | 1.41 | 1849 | 1.58 | 1930 | 1.27 | | | 1940 | 1.15 | 2028 | 1.11 |
| 12 0120 | 0.19 | 27 0050 | 0.01 | 12 0112 | 0.11 | 27 0102 | -0.08 | 12 0128 | 0.06 | 27 0837 | 1.73 | 12 0126 | 0.07 | 27 0905 | 0.10 |
| 0713 | 1.14 | 0655 | 1.29 | 0721 | 1.27 | 0724 | 1.52 | 0800 | 1.51 | 1408 | 0.20 | 1437 | 0.20 | FR 1534 | 0.17 |
| TH 1256 | 0.19 | FR 1240 | -0.01 | 1312 | 0.19 | SU 1321 | -0.00 | 1405 | 1.23 | WE 1458 | 0.11 | 1437 | 0.20 | FR 1534 | 0.17 |
| 1934 | 1.52 | 1914 | 1.73 | 1932 | 1.41 | 1935 | 1.54 | 2005 | 1.23 | 2043 | 1.18 | 2021 | 1.13 | 2110 | 1.08 |
| 13 0150 | 0.15 | 28 0132 | -0.07 | 13 0139 | 0.08 | 28 0141 | -0.10 | 13 0158 | 0.06 | 28 0921 | 1.73 | 12 0126 | 0.07 | 28 0944 | 0.14 |
| 0746 | 1.20 | 0742 | 1.40 | 0753 | 1.34 | 0809 | 1.61 | 0835 | 1.56 | 1448 | 0.19 | 1547 | 0.14 | 13 0203 | 0.07 |
| FR 1331 | 0.15 | SA 1330 | -0.07 | 1347 | 0.16 | MO 1412 | -0.01 | 2041 | 1.19 | 2127 | 1.10 | 1521 | 0.18 | SA 1616 | 0.19 |
| 2006 | 1.52 | 2000 | 1.73 | 2003 | 1.39 | ● 2019 | 1.46 | 2118 | 1.13 | 2212 | 1.02 | 2104 | 1.11 | 2151 | 1.06 |
| 14 0219 | 0.12 | 29 0213 | -0.11 | 14 0207 | 0.07 | 29 0220 | -0.08 | 14 0229 | 0.08 | 29 1004 | 1.68 | 14 0242 | 0.08 | 29 1023 | 0.19 |
| 0817 | 1.24 | 0828 | 1.48 | 0825 | 1.39 | 0855 | 1.66 | 0912 | 1.60 | 1530 | 0.19 | 0938 | 1.72 | 1023 | 1.63 |
| SA 1405 | 0.14 | SU 1421 | -0.09 | 1423 | 0.16 | TU 1504 | 0.02 | 1500 | 1.29 | WE 1557 | 0.09 | 1608 | 0.17 | SU 1656 | 0.23 |
| ● 2036 | 1.50 | ● 2044 | 1.67 | 2034 | 1.35 | 2103 | 1.34 | 2147 | 1.21 | | | 2149 | 1.08 | 2232 | 1.03 |
| 15 0247 | 0.11 | 30 0254 | -0.10 | 15 0235 | 0.07 | 30 0258 | -0.02 | 15 0302 | 0.11 | 30 1047 | 1.60 | 15 0326 | 0.12 | 30 1100 | 0.25 |
| 0850 | 1.27 | 0914 | 1.54 | 0858 | 1.43 | 0940 | 1.67 | 0951 | 1.60 | 1726 | 0.24 | 1023 | 1.71 | 1100 | 1.55 |
| SU 1439 | 0.14 | MO 1512 | -0.04 | TU 1500 | 0.17 | WE 1557 | 0.09 | 1615 | 0.22 | 2159 | 1.07 | 1657 | 0.17 | MO 1736 | 0.26 |
| 2105 | 1.46 | 2128 | 1.55 | 2106 | 1.29 | 2147 | 1.21 | 2259 | 0.96 | | | 2239 | 1.04 | 2315 | 1.00 |
| | | | | 31 0335 | 0.07 | | | | | | | | | | |
| | | | | 1025 | 1.63 | | | | | | | | | | |
| | | | | TH 1651 | 0.17 | | | | | | | | | | |
| | | | | 2234 | 1.07 | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – BRISBANE BAR

2019

LAT 27° 22' S LONG 153° 10' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0609 | 2.11 | 16 0510 | 1.96 | 1 0052 | 0.56 | 16 0007 | 0.55 |
| 1221 | 0.77 | 1113 | 0.89 | 0731 | 2.28 | 0647 | 2.33 |
| TU 1802 | 1.92 | WE 1702 | 1.86 | FR 1406 | 0.72 | SA 1323 | 0.70 |
| | | | | 1937 | 1.77 | 1857 | 1.83 |
| 2 0033 | 0.45 | 17 0614 | 2.13 | 2 0142 | 0.51 | 17 0111 | 0.44 |
| 0704 | 2.24 | 1229 | 0.81 | 0815 | 2.35 | 0744 | 2.50 |
| WE 1325 | 0.72 | TH 1807 | 1.86 | SA 1452 | 0.66 | SU 1427 | 0.56 |
| 1859 | 1.87 | | | 2023 | 1.81 | 1958 | 1.93 |
| 3 0121 | 0.42 | 18 0038 | 0.45 | 3 0224 | 0.47 | 18 0210 | 0.33 |
| 0752 | 2.34 | 0711 | 2.31 | 0855 | 2.40 | 0837 | 2.64 |
| TH 1420 | 0.67 | FR 1338 | 0.70 | SU 1531 | 0.61 | MO 1520 | 0.44 |
| 1951 | 1.84 | 1909 | 1.88 | 2102 | 1.85 | 2054 | 2.03 |
| 4 0203 | 0.39 | 19 0133 | 0.36 | 4 0302 | 0.44 | 19 0305 | 0.24 |
| 0836 | 2.40 | 0804 | 2.49 | 0931 | 2.42 | 0926 | 2.73 |
| FR 1509 | 0.63 | SA 1439 | 0.58 | MO 1607 | 0.59 | TU 1609 | 0.36 |
| 2036 | 1.83 | 2008 | 1.92 | 2137 | 1.89 | 2145 | 2.12 |
| 5 0242 | 0.38 | 20 0225 | 0.28 | 5 0336 | 0.42 | 20 0355 | 0.19 |
| 0915 | 2.44 | 0855 | 2.63 | 1005 | 2.42 | 1013 | 2.76 |
| SA 1551 | 0.60 | SU 1535 | 0.48 | TU 1639 | 0.58 | WE 1654 | 0.31 |
| 2117 | 1.83 | 2104 | 1.96 | 2209 | 1.93 | 2233 | 2.19 |
| 6 0317 | 0.38 | 21 0315 | 0.21 | 6 0409 | 0.42 | 21 0443 | 0.19 |
| 0952 | 2.45 | 0943 | 2.72 | 1037 | 2.41 | 1057 | 2.72 |
| SU 1630 | 0.60 | MO 1627 | 0.41 | WE 1709 | 0.58 | TH 1736 | 0.31 |
| 2153 | 1.83 | 2157 | 2.00 | 2242 | 1.96 | 2320 | 2.23 |
| 7 0350 | 0.39 | 22 0404 | 0.18 | 7 0442 | 0.44 | 22 0529 | 0.26 |
| 1026 | 2.44 | 1031 | 2.77 | 1107 | 2.38 | 1140 | 2.60 |
| MO 1704 | 0.60 | TU 1716 | 0.36 | TH 1739 | 0.57 | FR 1814 | 0.34 |
| 2228 | 1.83 | 2247 | 2.03 | 2316 | 1.97 | | |
| 8 0422 | 0.41 | 23 0452 | 0.20 | 8 0516 | 0.48 | 23 0005 | 2.23 |
| 1059 | 2.41 | 1117 | 2.76 | 1137 | 2.33 | 0615 | 0.38 |
| TU 1736 | 0.62 | WE 1802 | 0.35 | FR 1808 | 0.58 | SA 1221 | 2.43 |
| 2302 | 1.82 | 2337 | 2.05 | 2352 | 1.97 | 1852 | 0.41 |
| 9 0456 | 0.45 | 24 0540 | 0.26 | 9 0552 | 0.55 | 24 0052 | 2.20 |
| 1132 | 2.37 | 1203 | 2.68 | 1207 | 2.26 | 0703 | 0.54 |
| WE 1807 | 0.63 | TH 1847 | 0.38 | SA 1840 | 0.60 | SU 1304 | 2.22 |
| 2338 | 1.81 | | | | | 1930 | 0.50 |
| 10 0531 | 0.51 | 25 0027 | 2.04 | 10 0031 | 1.96 | 25 0141 | 2.14 |
| 1204 | 2.31 | 0628 | 0.37 | 0629 | 0.65 | 0755 | 0.72 |
| TH 1840 | 0.65 | FR 1248 | 2.53 | SU 1240 | 2.16 | MO 1348 | 2.00 |
| | | 1930 | 0.43 | 1913 | 0.62 | 2010 | 0.59 |
| 11 0016 | 1.80 | 26 0119 | 2.02 | 11 0113 | 1.94 | 26 0237 | 2.07 |
| 0608 | 0.59 | 0720 | 0.52 | 0713 | 0.75 | 0858 | 0.86 |
| FR 1238 | 2.24 | SA 1334 | 2.35 | MO 1316 | 2.05 | TU 1441 | 1.80 |
| 1916 | 0.67 | 2015 | 0.49 | 1952 | 0.65 | 2059 | 0.68 |
| 12 0059 | 1.77 | 27 0215 | 1.99 | 12 0203 | 1.92 | 27 0345 | 2.03 |
| 0650 | 0.68 | 0817 | 0.68 | 0806 | 0.85 | 1018 | 0.94 |
| SA 1315 | 2.16 | SU 1423 | 2.15 | TU 1403 | 1.92 | WE 1551 | 1.66 |
| 1956 | 0.68 | 2102 | 0.55 | 2041 | 0.67 | 2202 | 0.75 |
| 13 0148 | 1.76 | 28 0319 | 1.98 | 13 0308 | 1.94 | 28 0501 | 2.05 |
| 0739 | 0.79 | 0924 | 0.82 | 0916 | 0.92 | 1144 | 0.92 |
| SU 1357 | 2.06 | MO 1519 | 1.96 | WE 1507 | 1.81 | TH 1715 | 1.62 |
| 2043 | 0.68 | 2154 | 0.59 | 2145 | 0.68 | 2316 | 0.76 |
| 14 0248 | 1.76 | 29 0430 | 2.01 | 14 0425 | 2.01 | 29 0412 | 2.02 |
| 0839 | 0.88 | 1043 | 0.89 | 1042 | 0.92 | 1085 | 0.89 |
| MO 1449 | 1.97 | TU 1624 | 1.81 | TH 1628 | 1.75 | 1441 | 1.72 |
| 2138 | 0.67 | 2254 | 0.61 | 2257 | 0.64 | 2101 | 0.72 |
| 15 0359 | 1.83 | 30 0539 | 2.09 | 15 0541 | 2.15 | 30 0526 | 2.04 |
| 0953 | 0.92 | 1203 | 0.88 | 1208 | 0.83 | 1024 | 0.88 |
| TU 1552 | 1.89 | WE 1736 | 1.74 | FR 1746 | 1.76 | 1611 | 1.67 |
| 2239 | 0.62 | 2355 | 0.60 | | | 2223 | 0.72 |
| 31 0640 | 2.19 | | | | | 0625 | 2.11 |
| | | 1311 | 0.80 | | | 1307 | 0.73 |
| TH 1842 | 1.73 | | | | | SU 1855 | 1.79 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – BRISBANE BAR

2019

LAT 27° 22' S LONG 153° 10' E

Times and Heights of High and Low Waters

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m |
| 1 0102 | 0.76 | 16 0126 | 0.55 | 1 0203 | 0.67 | 16 0302 | 0.57 | 1 0231 | 0.62 | 16 0336 | 0.56 | 1 0401 | 0.39 | 16 0425 | 0.49 |
| 0709 | 2.14 | 0721 | 2.30 | 0744 | 2.04 | 0832 | 1.95 | 0800 | 1.90 | 0902 | 1.79 | 0930 | 1.93 | 0958 | 1.86 |
| WE 1340 | 0.56 | TH 1356 | 0.36 | SA 1411 | 0.41 | SU 1445 | 0.36 | MO 1420 | 0.34 | TU 1502 | 0.40 | MO 1538 | 0.20 | FR 1557 | 0.41 |
| 1940 | 2.09 | 2004 | 2.37 | 2028 | 2.38 | 2114 | 2.52 | 2048 | 2.53 | 2136 | 2.46 | ● 2204 | 2.71 | 2221 | 2.35 |
| 2 0148 | 0.67 | 17 0222 | 0.50 | 2 0251 | 0.61 | 17 0350 | 0.56 | 2 0323 | 0.54 | 17 0417 | 0.55 | 2 0449 | 0.33 | 17 0455 | 0.49 |
| 0748 | 2.17 | 0809 | 2.25 | 0827 | 2.02 | 0917 | 1.89 | 0850 | 1.91 | 0943 | 1.79 | 1021 | 1.98 | 1030 | 1.89 |
| TH 1416 | 0.49 | FR 1438 | 0.33 | SU 1450 | 0.37 | MO 1521 | 0.38 | TU 1505 | 0.30 | WE 1538 | 0.41 | 1627 | 0.19 | SA 1630 | 0.42 |
| 2018 | 2.21 | 2050 | 2.47 | 2109 | 2.48 | ○ 2154 | 2.53 | 2134 | 2.61 | ○ 2212 | 2.44 | 2251 | 2.71 | 2251 | 2.31 |
| 3 0232 | 0.61 | 18 0314 | 0.48 | 3 0338 | 0.57 | 18 0433 | 0.57 | 3 0413 | 0.49 | 18 0454 | 0.56 | 3 0536 | 0.30 | 18 0523 | 0.49 |
| 0825 | 2.17 | 0855 | 2.17 | 0909 | 1.99 | 0958 | 1.84 | 0940 | 1.91 | 1019 | 1.80 | 1112 | 2.01 | 1104 | 1.91 |
| FR 1451 | 0.44 | SA 1516 | 0.33 | MO 1528 | 0.35 | TU 1556 | 0.41 | WE 1550 | 0.28 | TH 1611 | 0.44 | SA 1715 | 0.22 | SU 1703 | 0.46 |
| 2055 | 2.31 | 2133 | 2.54 | ● 2151 | 2.55 | 2232 | 2.50 | ● 2220 | 2.67 | 2247 | 2.41 | 2336 | 2.65 | 2320 | 2.25 |
| 4 0314 | 0.57 | 19 0402 | 0.49 | 4 0424 | 0.54 | 19 0514 | 0.60 | 4 0503 | 0.45 | 19 0526 | 0.58 | 4 0620 | 0.31 | 19 0552 | 0.50 |
| 0901 | 2.15 | 0938 | 2.08 | 0954 | 1.96 | 1038 | 1.80 | 1032 | 1.91 | 1054 | 1.80 | 1202 | 2.03 | 1139 | 1.91 |
| SA 1525 | 0.41 | SU 1551 | 0.35 | TU 1606 | 0.35 | WE 1630 | 0.46 | 1635 | 0.28 | FR 1645 | 0.47 | 1805 | 0.31 | MO 1739 | 0.53 |
| 2133 | 2.39 | ○ 2213 | 2.56 | 2234 | 2.59 | 2308 | 2.45 | 2306 | 2.68 | 2318 | 2.36 | 2350 | 2.17 | | |
| 5 0354 | 0.55 | 20 0447 | 0.52 | 5 0511 | 0.54 | 20 0552 | 0.63 | 5 0553 | 0.43 | 20 0557 | 0.59 | 5 0021 | 2.53 | 20 0622 | 0.51 |
| 0937 | 2.11 | 1018 | 1.98 | 1040 | 1.91 | 1116 | 1.76 | 1123 | 1.90 | 1129 | 1.80 | 0704 | 0.34 | 20 1217 | 1.91 |
| SU 1558 | 0.40 | MO 1624 | 0.39 | 1646 | 0.38 | TH 1703 | 0.52 | 1722 | 0.32 | SA 1720 | 0.52 | 1254 | 2.03 | TU 1816 | 0.62 |
| ● 2211 | 2.45 | 2253 | 2.53 | 2317 | 2.59 | 2343 | 2.38 | 2353 | 2.64 | 2351 | 2.29 | 1855 | 0.44 | | |
| 6 0435 | 0.55 | 21 0530 | 0.58 | 6 0600 | 0.55 | 21 0628 | 0.67 | 6 0642 | 0.44 | 21 0628 | 0.60 | 6 0106 | 2.35 | 21 0021 | 2.05 |
| 1014 | 2.05 | 1059 | 1.88 | 1129 | 1.86 | 1155 | 1.73 | 1217 | 1.90 | 1207 | 1.80 | 0747 | 0.39 | 21 0654 | 0.54 |
| MO 1631 | 0.41 | TU 1656 | 0.46 | TH 1729 | 0.43 | FR 1739 | 0.59 | SA 1812 | 0.40 | SU 1757 | 0.59 | 1348 | 2.02 | WE 1259 | 1.89 |
| 2249 | 2.48 | 2331 | 2.47 | | | | | | | | 1951 | 0.59 | 1857 | 0.73 | |
| 7 0517 | 0.58 | 22 0612 | 0.65 | 7 0004 | 2.56 | 22 0019 | 2.29 | 7 0040 | 2.56 | 22 0023 | 2.21 | 7 0154 | 2.14 | 22 0054 | 1.93 |
| 1053 | 1.98 | 1139 | 1.78 | 0651 | 0.57 | 0704 | 0.70 | 0731 | 0.45 | 0702 | 0.62 | 0832 | 0.44 | 22 0730 | 0.58 |
| TU 1705 | 0.44 | WE 1729 | 0.55 | FR 1223 | 1.81 | SA 1236 | 1.70 | 1312 | 1.89 | MO 1247 | 1.79 | 1449 | 2.01 | TH 1346 | 1.87 |
| 2329 | 2.47 | | | 1817 | 0.50 | 1819 | 0.68 | 1906 | 0.50 | 1838 | 0.68 | 2056 | 0.73 | 1947 | 0.83 |
| 8 0600 | 0.62 | 23 0009 | 2.38 | 8 0054 | 2.50 | 23 0057 | 2.21 | 8 0130 | 2.44 | 23 0058 | 2.11 | 8 0249 | 1.93 | 23 0137 | 1.79 |
| 1135 | 1.89 | 0654 | 0.72 | 0747 | 0.59 | 0744 | 0.73 | 0821 | 0.47 | 0739 | 0.63 | 0924 | 0.49 | 23 0815 | 0.61 |
| WE 1741 | 0.50 | TH 1220 | 1.70 | SA 1323 | 1.78 | SU 1323 | 1.68 | 1413 | 1.90 | 1335 | 1.77 | 1557 | 2.03 | FR 1445 | 1.88 |
| | | 1804 | 0.65 | 1912 | 0.59 | 1904 | 0.77 | 2006 | 0.61 | 1924 | 0.78 | 2214 | 0.82 | 2053 | 0.90 |
| 9 0012 | 2.44 | 24 0048 | 2.27 | 9 0148 | 2.42 | 24 0138 | 2.12 | 9 0223 | 2.29 | 24 0137 | 2.00 | 9 0355 | 1.76 | 24 0236 | 1.67 |
| 0649 | 0.67 | 0739 | 0.78 | 0844 | 0.59 | 0829 | 0.73 | 0912 | 0.48 | 0822 | 0.64 | 1021 | 0.53 | 24 0914 | 0.63 |
| TH 1224 | 1.79 | FR 1306 | 1.63 | 1430 | 1.79 | MO 1417 | 1.68 | 1518 | 1.94 | WE 1429 | 1.78 | 1708 | 2.09 | SA 1558 | 1.93 |
| 1824 | 0.58 | 1845 | 0.76 | 2018 | 0.67 | 1958 | 0.86 | 2115 | 0.71 | 2020 | 0.88 | 2338 | 0.81 | 2217 | 0.90 |
| 10 0102 | 2.39 | 25 0132 | 2.17 | 10 0248 | 2.34 | 25 0226 | 2.03 | 10 0321 | 2.14 | 25 0224 | 1.89 | 10 0509 | 1.67 | 25 0358 | 1.59 |
| 0746 | 0.71 | 0829 | 0.82 | 0943 | 0.56 | 0919 | 0.72 | 1006 | 0.48 | 0912 | 0.64 | 1123 | 0.53 | 25 1025 | 0.60 |
| FR 1323 | 1.72 | SA 1402 | 1.60 | 1543 | 1.85 | TU 1521 | 1.72 | 1627 | 2.02 | TH 1534 | 1.82 | 1813 | 2.18 | SU 1713 | 2.05 |
| 1917 | 0.66 | 1936 | 0.86 | ● 2133 | 0.72 | ○ 2104 | 0.93 | 2230 | 0.77 | ○ 2130 | 0.93 | 2343 | 0.80 | | |
| 11 0200 | 2.33 | 26 0222 | 2.08 | 11 0352 | 2.27 | 26 0321 | 1.96 | 11 0424 | 2.00 | 26 0325 | 1.79 | 11 0051 | 0.73 | 26 0520 | 1.61 |
| 0854 | 0.72 | 0926 | 0.82 | 1042 | 0.51 | 1013 | 0.68 | 1101 | 0.47 | 1009 | 0.62 | 0619 | 1.65 | 26 1135 | 0.53 |
| SA 1437 | 1.69 | SU 1510 | 1.61 | 1653 | 1.98 | WE 1629 | 1.81 | 1733 | 2.13 | FR 1644 | 1.92 | 1224 | 0.51 | 26 1819 | 2.22 |
| 2026 | 0.73 | 2041 | 0.94 | 2249 | 0.72 | 2218 | 0.94 | 2348 | 0.76 | 2249 | 0.91 | 1909 | 2.27 | | |
| 12 0307 | 2.30 | 27 0322 | 2.02 | 12 0455 | 2.20 | 27 0423 | 1.91 | 12 0529 | 1.90 | 27 0435 | 1.74 | 12 0149 | 0.63 | 27 0058 | 0.66 |
| 1006 | 0.67 | 1023 | 0.78 | 1139 | 0.46 | 1107 | 0.62 | 1156 | 0.45 | 1110 | 0.56 | 0718 | 1.69 | 27 0630 | 1.70 |
| SU 1600 | 1.75 | MO 1623 | 1.68 | WE 1757 | 2.13 | TH 1732 | 1.94 | 1834 | 2.25 | SA 1748 | 2.07 | 1319 | 0.47 | 27 1239 | 0.42 |
| ● 2148 | 0.75 | ○ 2159 | 0.96 | | | 2332 | 0.89 | | | | | 1956 | 2.34 | 27 1917 | 2.39 |
| 13 0418 | 2.30 | 28 0425 | 2.00 | 13 0003 | 0.69 | 28 0522 | 1.89 | 13 0059 | 0.71 | 28 0007 | 0.83 | 1236 | 0.56 | 28 0159 | 0.51 |
| 1113 | 0.59 | 1117 | 0.71 | 0556 | 2.14 | 1158 | 0.54 | 0631 | 1.84 | 0543 | 1.74 | 0808 | 1.74 | 28 0731 | 1.81 |
| MO 1715 | 1.89 | TU 1726 | 1.81 | 1232 | 0.41 | FR 1826 | 2.11 | 1250 | 0.43 | SU 1207 | 0.48 | 1406 | 0.44 | WE 1339 | 0.31 |
| 2308 | 0.70 | 2314 | 0.92 | 1854 | 2.27 | | | 1928 | 2.36 | 1847 | 2.24 | 2038 | 2.38 | 2010 | 2.54 |
| 14 0526 | 2.31 | 29 0524 | 2.00 | 14 0110 | 0.64 | 29 0037 | 0.81 | 14 0159 | 0.64 | 29 0115 | 0.71 | 1317 | 0.52 | 29 0253 | 0.38 |
| 1214 | 0.50 | 1205 | 0.63 | 0652 | 2.07 | 0617 | 1.89 | 0728 | 1.81 | 0645 | 1.77 | 0848 | 1.78 | 29 0826 | 1.92 |
| TU 1819 | 2.06 | WE 1818 | 1.96 | 1321 | 0.38 | SA 1247 | 0.46 | 1339 | 0.41 | MO 1303 | 0.40 | 1446 | 0.42 | TH 1435 | 0.22 |
| | | | | 1945 | 2.40 | 1915 | 2.27 | 2015 | 2.43 | 1939 | 2.41 | 2116 | 2.39 | 2058 | 2.64 |
| 15 0021 | 0.62 | 30 0017 | 0.84 | 15 0209 | 0.60 | 30 0136 | 0.71 | 15 0251 | 0.59 | 30 0215 | 0.58 | 15 0353 | 0.50 | 30 0342 | 0.28 |
| 0626 | 2.32 | 0615 | 2.02 | 0744 | 2.01 | 0709 | 1.90 | 0818 | 1.80 | 0742 | 1.82 | 0925 | 1.82 | 30 0918 | 2.02 |
| WE 1308 | 0.41 | TH 1250 | 0.54 | 1405 | 0.36 | SU 1334 | 0.39 | 1422 | 0.40 | TU 1356 | 0.31 | 1523 | 0.40 | FR 1527 | 0.16 |
| 1914 | 2.23 | 1903 | 2.12 | 2032 | 2.48 | 2002 | 2.41 | 2058 | 2.46 | 2029 | 2.54 | 2150 | 2.38 | ● 2145 | 2.69 |
| 31 0113 | 0.75 | | | | | | | | | | | 31 0309 | 0.47 | | |
| 0701 | 2.04 | | | | | | | | | | | 0837 | 1.87 | | |
| FR 1331 | 0.47 | | | | | | | | | | | WE 1448 | 0.25 | | |
| 1946 | 2.26 | | | | | | | | | | | 2118 | 2.65 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – BRISBANE BAR

2019

LAT 27° 22' S LONG 153° 10' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|-----------|-----------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | |
| 1 0509 0.20 | 16 0448 0.39 | 1 0513 0.18 | 16 0442 0.34 | 1 0546 0.39 | 16 0517 0.40 | 1 0007 1.65 | 16 0549 0.41 | 2 0549 0.22 | 17 0516 0.40 | 2 0553 1.58 | 17 0047 1.74 | 2 0549 0.22 | 16 1228 2.48 | 2 0631 0.64 | 17 0640 0.49 | | |
| 1055 2.16 | 1039 2.05 | 1120 2.35 | 1052 2.22 | 1224 2.33 | 1152 2.35 | 0551 0.52 | 1228 2.48 | MO 1753 0.29 | TU 1722 0.52 | SA 1827 0.64 | SU 1240 2.28 | MO 1917 0.57 | SU 1932 0.70 | MO 1323 2.17 | TU 1318 2.42 | 2021 0.74 | |
| SU 1705 0.19 | MO 1648 0.46 | TU 1740 0.34 | WE 1710 0.53 | FR 1906 0.64 | SA 1827 0.64 | 1932 0.70 | 1932 0.70 | 2313 2.56 | 2249 2.17 | 2355 1.70 | 2355 1.70 | 1932 0.70 | 1932 0.70 | 2010 0.57 | 2107 0.56 | | |
| 2355 2.39 | 2318 2.07 | 2328 2.18 | 2251 1.95 | 2002 0.73 | 2022 0.68 | 2114 0.76 | 2107 0.56 | 2348 1.95 | 2325 1.84 | 2107 0.73 | 2107 0.56 | 2209 0.73 | 2209 0.52 | 2205 0.52 | 2205 0.52 | | |
| 3 0628 0.27 | 18 0544 0.43 | 3 0010 1.96 | 18 0541 0.43 | 3 0122 1.51 | 18 0049 1.62 | 3 0146 1.53 | 18 0149 1.72 | 4 0252 1.53 | 19 0003 1.72 | 4 0229 1.44 | 19 0156 1.58 | 4 0252 1.53 | 19 0259 1.76 | 0720 0.76 | 0739 0.59 | 0822 0.86 | 0848 0.67 |
| 1230 2.18 | 1151 2.05 | 0624 0.36 | 1207 2.19 | 0704 0.66 | 0645 0.56 | 1410 2.07 | 1413 2.35 | MO 1706 0.35 | TH 1728 2.03 | 0800 0.78 | 0748 0.64 | 1502 2.01 | 1433 2.24 | 1505 2.00 | 1512 2.27 | 1505 2.00 | 1512 2.27 |
| TU 1842 0.44 | WE 1759 0.60 | TH 1252 2.24 | FR 1828 0.67 | SU 1401 2.10 | MO 1331 2.27 | 2114 0.76 | 2107 0.56 | 1935 0.61 | 1918 0.74 | 1921 0.63 | 2022 0.68 | 2215 0.77 | 2131 0.65 | 2209 0.73 | 2209 0.52 | 2107 0.56 | 2107 0.56 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1443 2.05 | 1344 2.11 | 2352 0.59 | 2352 0.59 | 1935 0.61 | 1926 0.79 | 1926 0.79 | 2023 0.78 | 0149 1.55 | 0051 1.61 | 0406 1.59 | 0413 1.85 | 0938 0.91 | 1004 0.71 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1343 2.15 | 1250 2.15 | 1606 1.95 | 1615 2.18 | WE 1321 2.13 | TH 1838 0.70 | 1042 0.85 | 1026 0.66 | 1715 1.98 | 1648 2.25 | 1705 1.93 | 1718 2.11 | 2303 0.67 | 2303 0.46 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1313 2.00 | 1453 2.10 | 1705 1.93 | 1718 2.11 | WE 1321 2.13 | TH 1838 0.70 | 2301 0.79 | 2146 0.75 | 2301 0.79 | 2146 0.75 | 2352 0.59 | 2352 0.59 | 2352 0.59 | 2352 0.59 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1554 2.00 | 1453 2.10 | 1705 1.93 | 1718 2.11 | WE 1321 2.13 | TH 1838 0.70 | 0305 1.44 | 0158 1.52 | 0510 1.56 | 0439 1.73 | 0513 1.71 | 0522 2.00 | 0607 1.86 | 0625 2.16 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1012 0.78 | 0924 0.68 | 1609 2.15 | 1541 2.23 | 1606 1.70 | 1626 0.67 | 0607 1.86 | 0625 2.16 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1129 0.81 | 2157 0.84 | 2307 0.64 | 2341 0.46 | 0607 1.86 | 0625 2.16 | 0607 1.86 | 0625 2.16 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 0006 0.70 | 023 0457 1.62 | 0049 0.54 | 0038 0.35 | 0036 0.50 | 0054 0.35 | 0653 2.02 | 0721 2.32 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1131 0.74 | 1720 2.24 | 1853 2.05 | 1848 2.24 | 1258 0.77 | 1342 0.62 | 1845 1.94 | 1917 1.97 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 0055 0.60 | 024 0014 0.50 | 0127 0.45 | 0128 0.27 | 0118 0.43 | 0142 0.31 | 0736 2.17 | 0811 2.44 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1233 0.66 | 1202 0.52 | 1333 0.63 | 1353 0.47 | 1349 0.69 | 1441 0.57 | 1930 1.93 | 2010 1.92 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1357 2.12 | 1823 2.34 | 1933 2.07 | 1940 2.20 | 1930 1.93 | 2010 1.92 | 0816 2.29 | 0857 2.52 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 0135 0.51 | 0111 0.36 | 0202 0.38 | 0213 0.22 | 0156 0.36 | 0227 0.29 | 0956 2.47 | 1021 2.54 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1322 0.58 | 0704 1.99 | 1417 0.57 | 1449 0.43 | 1437 0.63 | 1533 0.54 | 2059 1.88 | 2226 1.81 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | 1131 0.74 | 0801 0.66 | 1611 1.97 | 1626 0.67 | WE 1321 2.13 | TH 1838 0.70 | 1404 0.51 | 0201 0.25 | 2045 2.04 | 2053 2.03 | 2053 1.90 | 2145 1.84 | 0856 2.39 | 0940 2.55 |
| WE 1321 2.13 | TH 1838 0.70 | 1921 0.63 | 1918 0.74 | | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – MOOLOOLABA

2019

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0458 | 1.57 | 16 | 0357 | 1.45 | 1 | 0617 | 1.73 | 16 | 0524 | 1.79 | 1 | 0503 | 1.62 | |
| | 1102 | 0.64 | | 0951 | 0.76 | | 1243 | 0.61 | | 1158 | 0.58 | | 1140 | 0.70 | |
| TU | 1639 | 1.40 | WE | 1537 | 1.36 | FR | 1809 | 1.29 | SA | 1729 | 1.35 | FR | 1706 | 1.22 | |
| | 2306 | 0.33 | | 2209 | 0.40 | | | | | 2336 | 0.30 | | 2308 | 0.57 | |
| 2 | 0549 | 1.68 | 17 | 0455 | 1.60 | 2 | 0014 | 0.39 | 17 | 0617 | 1.95 | 2 | 0551 | 1.68 | |
| | 1202 | 0.60 | | 1107 | 0.68 | | 0656 | 1.79 | | 1250 | 0.44 | | 1223 | 0.62 | |
| WE | 1732 | 1.36 | TH | 1640 | 1.36 | SA | 1323 | 0.55 | SU | 1828 | 1.44 | SA | 1757 | 1.29 | |
| | 2350 | 0.30 | | 2302 | 0.31 | | 1852 | 1.33 | | | | | 2358 | 0.50 | |
| 3 | 0633 | 1.77 | 18 | 0546 | 1.76 | 3 | 0054 | 0.35 | 18 | 0032 | 0.18 | 3 | 0631 | 1.74 | |
| | 1252 | 0.56 | | 1209 | 0.57 | | 0732 | 1.84 | | 0707 | 2.08 | | 1259 | 0.55 | |
| TH | 1821 | 1.35 | FR | 1740 | 1.38 | SU | 1357 | 0.50 | MO | 1337 | 0.32 | SU | 1838 | 1.37 | |
| | 2353 | 0.22 | | | | 1931 | 1.37 | | 1921 | 1.54 | | MO | 1819 | 1.52 | |
| 4 | 0030 | 0.27 | 19 | 0636 | 1.92 | 4 | 0129 | 0.31 | 19 | 0123 | 0.09 | 4 | 0038 | 0.44 | |
| | 0713 | 1.83 | | 1303 | 0.46 | | 0806 | 1.86 | | 0755 | 2.17 | | 0707 | 1.79 | |
| FR | 1336 | 0.51 | SA | 1836 | 1.42 | MO | 1429 | 0.46 | TU | 1422 | 0.24 | MO | 1330 | 0.49 | |
| | 1904 | 1.34 | | | | 2006 | 1.41 | | 2010 | 1.62 | | 1914 | 1.44 | | |
| 5 | 0106 | 0.25 | 20 | 0044 | 0.12 | 5 | 0202 | 0.29 | 20 | 0211 | 0.05 | 5 | 0113 | 0.39 | |
| | 0749 | 1.87 | | 0723 | 2.06 | | 0838 | 1.87 | | 0841 | 2.19 | | 0740 | 1.82 | |
| SA | 1415 | 0.48 | SU | 1353 | 0.35 | TU | 1500 | 0.44 | WE | 1505 | 0.20 | TU | 1401 | 0.44 | |
| | 1944 | 1.34 | | 1929 | 1.47 | | 2041 | 1.43 | | 2058 | 1.68 | | 1948 | 1.50 | |
| 6 | 0142 | 0.25 | 21 | 0133 | 0.06 | 6 | 0234 | 0.30 | 21 | 0259 | 0.06 | 6 | 0146 | 0.35 | |
| | 0825 | 1.88 | | 0811 | 2.15 | | 0910 | 1.86 | | 0926 | 2.14 | | 0811 | 1.84 | |
| SU | 1451 | 0.46 | MO | 1441 | 0.28 | WE | 1531 | 0.44 | TH | 1547 | 0.20 | WE | 1429 | 0.41 | |
| | 2022 | 1.34 | | | | 2114 | 1.45 | | 2145 | 1.71 | | 2020 | 1.55 | | |
| 7 | 0215 | 0.25 | 22 | 0222 | 0.03 | 7 | 0307 | 0.32 | 22 | 0346 | 0.15 | 7 | 0217 | 0.34 | |
| | 0900 | 1.88 | | 0859 | 2.19 | | 0941 | 1.83 | | 1009 | 2.03 | | 0842 | 1.83 | |
| MO | 1526 | 0.45 | TU | 1528 | 0.24 | TH | 1603 | 0.44 | FR | 1630 | 0.24 | TH | 1458 | 0.39 | |
| | 2058 | 1.34 | | 2111 | 1.53 | | 2148 | 1.45 | | 2232 | 1.69 | | 2053 | 1.59 | |
| 8 | 0248 | 0.28 | 23 | 0310 | 0.05 | 8 | 0340 | 0.37 | 23 | 0435 | 0.29 | 8 | 0250 | 0.35 | |
| | 0933 | 1.85 | | 0947 | 2.17 | | 1013 | 1.78 | | 1051 | 1.86 | | 0912 | 1.80 | |
| TU | 1601 | 0.46 | WE | 1616 | 0.24 | FR | 1635 | 0.45 | SA | 1711 | 0.31 | FR | 1527 | 0.38 | |
| | 2134 | 1.33 | | 2201 | 1.53 | | 2225 | 1.45 | | 2322 | 1.65 | | 2126 | 1.61 | |
| 9 | 0322 | 0.32 | 24 | 0359 | 0.13 | 9 | 0415 | 0.44 | 24 | 0527 | 0.46 | 9 | 0323 | 0.39 | |
| | 1007 | 1.81 | | 1034 | 2.08 | | 1044 | 1.71 | | 1134 | 1.67 | | 0941 | 1.74 | |
| WE | 1636 | 0.48 | TH | 1703 | 0.28 | SA | 1708 | 0.47 | SU | 1753 | 0.40 | SA | 1557 | 0.39 | |
| | 2211 | 1.31 | | | | 2303 | 1.44 | | 2201 | 1.63 | | 2201 | 1.63 | | |
| 10 | 0357 | 0.38 | 25 | 0449 | 0.26 | 10 | 0454 | 0.53 | 25 | 0018 | 1.59 | 10 | 0359 | 0.45 | |
| | 1042 | 1.75 | | 1120 | 1.95 | | 1117 | 1.62 | | 0626 | 0.63 | | 1011 | 1.67 | |
| TH | 1713 | 0.50 | FR | 1752 | 0.33 | SU | 1743 | 0.49 | MO | 1220 | 1.48 | SU | 1627 | 0.41 | |
| | 2251 | 1.29 | | | | 2348 | 1.42 | | 1838 | 0.49 | | 2238 | 1.62 | | |
| 11 | 0435 | 0.46 | 26 | 0544 | 0.41 | 11 | 0538 | 0.63 | 26 | 0125 | 1.54 | 11 | 0437 | 0.53 | |
| | 1118 | 1.69 | | 1208 | 1.78 | | 1153 | 1.53 | | 0746 | 0.75 | | 1044 | 1.57 | |
| FR | 1753 | 0.53 | SU | 1842 | 0.39 | MO | 1824 | 0.51 | TU | 1314 | 1.31 | MO | 1701 | 0.44 | |
| | 2335 | 1.26 | | | | | 1932 | 0.56 | | 1932 | 0.56 | | 2320 | 1.60 | |
| 12 | 0517 | 0.55 | 27 | 0052 | 1.45 | 12 | 0043 | 1.41 | 27 | 0248 | 1.52 | 12 | 0522 | 0.62 | |
| | 1156 | 1.61 | | 0647 | 0.57 | | 0634 | 0.72 | | 0919 | 0.80 | | 1120 | 1.47 | |
| SA | 1836 | 0.54 | SU | 1259 | 1.60 | | 1238 | 1.42 | | WE | 1431 | 1.20 | TU | 1739 | 0.49 |
| | 1935 | 0.45 | | | | 1914 | 0.53 | | 2041 | 0.61 | | | | | |
| 13 | 0028 | 1.25 | 28 | 0208 | 1.45 | 13 | 0154 | 1.43 | 28 | 0404 | 1.56 | 13 | 0009 | 1.58 | |
| | 0607 | 0.65 | | 0806 | 0.70 | | 0749 | 0.79 | | 1041 | 0.77 | | 0617 | 0.71 | |
| SU | 1239 | 1.53 | MO | 1356 | 1.44 | | 1339 | 1.33 | | TH | 1557 | 1.18 | WE | 1205 | 1.35 |
| | 1925 | 0.54 | | 2032 | 0.48 | | 2015 | 0.53 | | 2201 | 0.61 | | 1827 | 0.54 | |
| 14 | 0134 | 1.27 | 29 | 0327 | 1.49 | 14 | 0313 | 1.51 | 29 | 0317 | 1.55 | 14 | 0116 | 1.56 | |
| | 0710 | 0.73 | | 0934 | 0.76 | | 0924 | 0.79 | | 1011 | 0.75 | | 0735 | 0.78 | |
| MO | 1330 | 1.45 | TU | 1504 | 1.32 | | 1500 | 1.28 | | TH | 1310 | 1.26 | FR | 1537 | 1.15 |
| | 2018 | 0.52 | | 2134 | 0.49 | | 2124 | 0.49 | | | | 1931 | 0.57 | | |
| 15 | 0249 | 1.33 | 30 | 0436 | 1.57 | 15 | 0424 | 1.64 | 30 | 0422 | 1.58 | 15 | 0239 | 1.59 | |
| | 0827 | 0.77 | | 1054 | 0.74 | | 1053 | 0.71 | | 1108 | 0.69 | | 0917 | 0.76 | |
| TU | 1431 | 1.39 | WE | 1614 | 1.26 | | FR | 1621 | | SA | 1646 | 1.22 | FR | 1446 | 1.21 |
| | 2114 | 0.47 | | 2235 | 0.47 | | 2233 | 0.41 | | | | 2052 | 0.57 | | |
| | | | | | | | | | | | | | | | |
| | 31 | 0531 | 1.66 | | | | | | | | | | | | |
| | | 1155 | 0.68 | | | | | | | | | | | | |
| | | TH | 1717 | 1.26 | | | | | | | | | | | |
| | | | 2329 | 0.43 | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – MOOLOOLABA

2019

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

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AUSTRALIA, EAST COAST – MOOLOOLABA

2019

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|------|---------|-------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0319 | 0.08 | 16 0307 | 0.26 | 1 0326 | 0.05 | 16 0258 | 0.19 | 1 0407 | 0.25 | 16 0337 | 0.24 | 1 0419 | 0.38 | 16 0413 | 0.26 |
| 0918 | 1.64 | 0910 | 1.52 | 0946 | 1.79 | 0921 | 1.67 | 1100 | 1.76 | 1025 | 1.80 | 1119 | 1.72 | 1103 | 1.90 |
| SU 1520 | 0.04 | MO 1508 | 0.31 | TU 1556 | 0.21 | WE 1528 | 0.38 | FR 1739 | 0.50 | SA 1652 | 0.47 | SU 1808 | 0.54 | MO 1742 | 0.43 |
| 2140 | 1.98 | 2121 | 1.62 | 2155 | 1.62 | 2121 | 1.43 | 2258 | 1.15 | 2223 | 1.20 | 2324 | 1.11 | 2315 | 1.23 |
| 2 0402 | 0.11 | 17 0336 | 0.27 | 2 0405 | 0.13 | 17 0328 | 0.22 | 2 0448 | 0.37 | 17 0420 | 0.31 | 2 0504 | 0.48 | 17 0506 | 0.35 |
| 1007 | 1.65 | 0945 | 1.52 | 1035 | 1.75 | 0958 | 1.67 | 1151 | 1.65 | 1114 | 1.75 | 1206 | 1.62 | 1155 | 1.84 |
| MO 1609 | 0.16 | TU 1543 | 0.37 | WE 1649 | 0.36 | TH 1609 | 0.44 | SA 1847 | 0.57 | SU 1751 | 0.51 | MO 1904 | 0.57 | TU 1842 | 0.44 |
| 2224 | 1.82 | 2151 | 1.53 | 2238 | 1.43 | 2154 | 1.33 | 2353 | 1.05 | 2318 | 1.13 | | | | |
| 3 0444 | 0.17 | 18 0406 | 0.30 | 3 0444 | 0.24 | 18 0402 | 0.28 | 3 0537 | 0.49 | 18 0513 | 0.40 | 3 0023 | 1.07 | 18 0021 | 1.22 |
| 1058 | 1.62 | 1022 | 1.52 | 1127 | 1.67 | 1039 | 1.64 | 1252 | 1.55 | 1211 | 1.70 | 0559 | 0.59 | 0608 | 0.44 |
| TU 1702 | 0.32 | WE 1621 | 0.45 | TH 1751 | 0.50 | FR 1654 | 0.51 | SU 2001 | 0.60 | MO 1903 | 0.53 | TU 1259 | 1.54 | WE 1254 | 1.77 |
| 2308 | 1.62 | 2221 | 1.43 | 2324 | 1.24 | 2232 | 1.23 | | | | | 2002 | 0.58 | 1944 | 0.43 |
| 4 0528 | 0.25 | 19 0438 | 0.33 | 4 0527 | 0.36 | 19 0439 | 0.34 | 4 0111 | 1.00 | 19 0031 | 1.09 | 4 0141 | 1.08 | 19 0139 | 1.24 |
| 1154 | 1.58 | 1102 | 1.50 | 1226 | 1.58 | 1127 | 1.60 | 0643 | 0.59 | 0619 | 0.48 | 0706 | 0.67 | 0721 | 0.53 |
| WE 1803 | 0.49 | TH 1703 | 0.54 | 1913 | 0.61 | SA 1751 | 0.58 | MO 1402 | 1.49 | TU 1318 | 1.67 | WE 1358 | 1.48 | TH 1355 | 1.69 |
| 2355 | 1.41 | 2256 | 1.32 | | | 2320 | 1.13 | 2108 | 0.59 | 2018 | 0.50 | 2059 | 0.55 | 2045 | 0.40 |
| 5 0615 | 0.34 | 20 0515 | 0.38 | 5 0021 | 1.09 | 20 0527 | 0.42 | 5 0246 | 1.03 | 20 0204 | 1.12 | 5 0302 | 1.14 | 20 0258 | 1.33 |
| 1300 | 1.52 | 1150 | 1.47 | 0620 | 0.47 | 1226 | 1.56 | 0808 | 0.64 | 0741 | 0.52 | 0825 | 0.71 | 0841 | 0.57 |
| TH 1924 | 0.63 | FR 1755 | 0.63 | SA 1339 | 1.51 | SU 1908 | 0.62 | TU 1509 | 1.46 | WE 1429 | 1.66 | TH 1459 | 1.44 | FR 1457 | 1.62 |
| 2338 | 1.21 | | | 2041 | 0.64 | | | 2205 | 0.54 | 2124 | 0.42 | 2150 | 0.50 | 2141 | 0.34 |
| 6 0052 | 1.23 | 21 0600 | 0.44 | 6 0147 | 1.00 | 21 0030 | 1.05 | 6 0357 | 1.12 | 21 0324 | 1.23 | 6 0405 | 1.24 | 21 0407 | 1.47 |
| 0710 | 0.43 | 1250 | 1.45 | 0732 | 0.55 | 0633 | 0.49 | 0930 | 0.64 | 0904 | 0.50 | 0940 | 0.70 | 0959 | 0.57 |
| FR 1420 | 1.50 | SA 1909 | 0.69 | SU 1458 | 1.48 | MO 1341 | 1.55 | WE 1606 | 1.47 | TH 1533 | 1.68 | 1554 | 1.43 | SA 1557 | 1.56 |
| 0 2100 | 0.68 | | | 2158 | 0.61 | 2043 | 0.59 | 2250 | 0.47 | 2219 | 0.33 | 2235 | 0.44 | 2233 | 0.28 |
| 7 0210 | 1.11 | 22 0038 | 1.11 | 7 0324 | 1.02 | 22 0215 | 1.05 | 7 1044 | 1.23 | 22 0428 | 1.39 | 7 1046 | 1.36 | 22 0506 | 1.62 |
| 0818 | 0.48 | 0702 | 0.48 | 0900 | 0.58 | 0758 | 0.51 | 1034 | 0.59 | 1017 | 0.45 | 1044 | 0.67 | 1109 | 0.54 |
| SA 1539 | 1.52 | SU 1410 | 1.46 | 1604 | 1.50 | TU 1500 | 1.60 | 1654 | 1.49 | FR 1630 | 1.69 | 1642 | 1.42 | SU 1654 | 1.51 |
| 2224 | 0.65 | 0 2055 | 0.68 | 2254 | 0.54 | 2157 | 0.49 | 2327 | 0.39 | 2307 | 0.22 | 2313 | 0.37 | 2321 | 0.22 |
| 8 0339 | 1.08 | 23 0216 | 1.06 | 8 0432 | 1.10 | 23 0342 | 1.15 | 8 1124 | 1.35 | 23 1120 | 1.38 | 8 1137 | 1.48 | 23 1211 | 1.76 |
| 0936 | 0.49 | 0820 | 0.48 | 1016 | 0.54 | 0924 | 0.45 | 1734 | 1.52 | SA 1722 | 1.69 | 1725 | 1.42 | MO 1748 | 1.46 |
| SU 1642 | 1.57 | MO 1529 | 1.55 | 1656 | 1.53 | WE 1605 | 1.68 | | | 2350 | 0.14 | 2348 | 0.30 | | |
| 2324 | 0.57 | 2221 | 0.58 | 2335 | 0.46 | 2252 | 0.36 | | | | | | | | |
| 9 0448 | 1.12 | 24 0350 | 1.11 | 9 0520 | 1.21 | 24 0445 | 1.30 | 9 0608 | 1.32 | 24 0610 | 1.71 | 9 1223 | 1.61 | 24 0005 | 0.17 |
| 1044 | 0.46 | 0941 | 0.41 | 1113 | 0.48 | 1035 | 0.36 | 1207 | 0.48 | 1810 | 1.53 | 1805 | 1.41 | TU 1305 | 0.45 |
| MO 1732 | 1.62 | TU 1634 | 1.67 | 1739 | 1.58 | TH 1701 | 1.77 | 1810 | 1.53 | | | 1839 | 1.42 | | |
| 2320 | 0.44 | | | | | 2339 | 0.23 | | | | | | | | |
| 10 0007 | 0.49 | 25 0456 | 1.23 | 10 0009 | 0.39 | 25 0537 | 1.46 | 10 0029 | 0.26 | 25 0031 | 0.07 | 10 0020 | 0.24 | 25 0047 | 0.15 |
| 0539 | 1.19 | 1051 | 0.30 | 0600 | 1.31 | 1135 | 0.25 | 0643 | 1.56 | 0657 | 1.85 | 0651 | 1.72 | 0730 | 1.95 |
| TU 1137 | 0.40 | WE 1729 | 1.81 | 1156 | 0.41 | 1751 | 1.83 | 1246 | 0.43 | 1309 | 0.29 | 1305 | 0.50 | WE 1355 | 0.41 |
| 1814 | 1.67 | | | 1817 | 1.61 | | | 1844 | 1.52 | 1857 | 1.60 | 1843 | 1.40 | 1926 | 1.38 |
| 11 0042 | 0.42 | 26 0006 | 0.30 | 11 0040 | 0.32 | 26 0020 | 0.12 | 11 0058 | 0.21 | 26 0110 | 0.04 | 11 0052 | 0.19 | 26 0128 | 0.15 |
| 0621 | 1.27 | 0551 | 1.37 | 0636 | 1.41 | 0625 | 1.62 | 0716 | 1.65 | 0742 | 1.93 | 0728 | 1.82 | 0813 | 1.98 |
| WE 1220 | 0.34 | TH 1150 | 0.18 | 1234 | 0.36 | 1228 | 0.17 | 1323 | 0.40 | TU 1359 | 0.29 | 1346 | 0.45 | TH 1441 | 0.40 |
| 1850 | 1.71 | 1818 | 1.93 | 1850 | 1.63 | 1838 | 1.85 | 1916 | 1.50 | 1942 | 1.52 | 1922 | 1.39 | 2010 | 1.35 |
| 12 0113 | 0.37 | 27 0048 | 0.17 | 12 0108 | 0.27 | 27 0059 | 0.03 | 12 0126 | 0.17 | 27 0148 | 0.05 | 12 0127 | 0.15 | 27 0207 | 0.17 |
| 0657 | 1.35 | 0640 | 1.51 | 0708 | 1.49 | 0711 | 1.76 | 0749 | 1.73 | 0826 | 1.97 | 0806 | 1.89 | 0853 | 1.97 |
| TH 1257 | 0.29 | FR 1242 | 0.07 | 1309 | 0.32 | SU 1318 | 0.13 | 1400 | 0.38 | WE 1448 | 0.32 | 1427 | 0.42 | FR 1524 | 0.41 |
| 1923 | 1.73 | 1904 | 1.99 | 1921 | 1.64 | 1921 | 1.81 | 1949 | 1.47 | 2025 | 1.42 | 2002 | 1.36 | 2053 | 1.32 |
| 13 0143 | 0.32 | 28 0129 | 0.07 | 13 0135 | 0.23 | 28 0138 | -0.01 | 13 0156 | 0.15 | 28 0225 | 0.10 | 13 0203 | 0.13 | 28 0244 | 0.21 |
| 0731 | 1.41 | 0727 | 1.64 | 0740 | 1.56 | 0756 | 1.86 | 0824 | 1.79 | 0909 | 1.96 | 0846 | 1.94 | 0933 | 1.93 |
| FR 1330 | 0.26 | SA 1331 | 0.01 | 1342 | 0.30 | MO 1407 | 0.14 | 1438 | 0.38 | TH 1537 | 0.36 | 1511 | 0.40 | SA 1605 | 0.43 |
| 1954 | 1.74 | 1948 | 2.00 | 1951 | 1.62 | ● 2005 | 1.72 | 2022 | 1.41 | 2109 | 1.33 | 2044 | 1.34 | 2133 | 1.29 |
| 14 0211 | 0.29 | 29 0208 | 0.01 | 14 0203 | 0.20 | 29 0216 | -0.00 | 14 0227 | 0.15 | 29 0302 | 0.17 | 14 0243 | 0.15 | 29 0321 | 0.28 |
| 0804 | 1.46 | 0813 | 1.73 | 0813 | 1.61 | 0841 | 1.91 | 0901 | 1.82 | 0952 | 1.91 | 0928 | 1.96 | 1011 | 1.86 |
| SA 1403 | 0.25 | SU 1418 | 0.02 | MO 1417 | 0.31 | TU 1455 | 0.20 | 1519 | 0.39 | FR 1626 | 0.42 | 1557 | 0.39 | SU 1645 | 0.47 |
| ● 2023 | 1.72 | ● 2031 | 1.93 | ● 2020 | 1.57 | 2047 | 1.59 | 2058 | 1.35 | 2152 | 1.24 | 2130 | 1.30 | 2213 | 1.26 |
| 15 0239 | 0.27 | 30 0248 | 0.01 | 15 0230 | 0.19 | 30 0253 | 0.05 | 15 0300 | 0.18 | 30 0340 | 0.27 | 15 0326 | 0.19 | 30 0358 | 0.36 |
| 0836 | 1.49 | 0900 | 1.79 | 0846 | 1.65 | 0926 | 1.90 | 0941 | 1.82 | 1035 | 1.82 | 1014 | 1.95 | 1048 | 1.78 |
| SU 1435 | 0.27 | MO 1507 | 0.09 | TU 1451 | 0.33 | WE 1546 | 0.29 | 1603 | 0.43 | SA 1716 | 0.49 | 1647 | 0.41 | MO 1724 | 0.51 |
| 2053 | 1.68 | 2113 | 1.80 | 2050 | 1.51 | 2129 | 1.44 | 2138 | 1.28 | 2236 | 1.16 | 2219 | 1.26 | 2254 | 1.23 |
| | | | | 31 | 0330 | 0.14 | | | | | | | 31 | 0437 | 0.45 |
| | | | | | 1013 | 1.85 | | | | | | | | 1126 | 1.70 |
| | | | | | 1639 | 0.40 | | | | | | | | TU 1807 | 0.54 |
| | | | | | 2212 | 1.29 | | | | | | | | 2340 | 1.20 |

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Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – NOOSA HEAD

2019

LAT 26° 23' S LONG 153° 06' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | |
|-----------|------|------|-----------|------|------|--|-----------|------|------|-----------|------|------|------|-----------|------|------|-----------|------|------|
| 1 | 0458 | 1.69 | 16 | 0347 | 1.62 | | 1 | 0621 | 1.88 | 16 | 0517 | 1.96 | | 1 | 0502 | 1.76 | 16 | 0353 | 1.84 |
| | 1101 | 0.77 | | 0940 | 0.94 | | 1 | 1245 | 0.76 | 16 | 1155 | 0.76 | | 1 | 1135 | 0.85 | 16 | 1038 | 0.84 |
| TU | 1639 | 1.54 | WE | 1534 | 1.53 | | FR | 1812 | 1.45 | SA | 1729 | 1.51 | | FR | 1703 | 1.38 | SA | 1618 | 1.43 |
| | 2307 | 0.47 | | 2159 | 0.61 | | | | | | 2336 | 0.50 | | | 2310 | 0.73 | | 2215 | 0.69 |
| 2 | 0549 | 1.81 | 17 | 0446 | 1.78 | | 2 | 0019 | 0.54 | 17 | 0610 | 2.10 | | 2 | 0553 | 1.83 | 17 | 0454 | 1.96 |
| | 1202 | 0.74 | | 1058 | 0.87 | | 2 | 0701 | 1.95 | 17 | 1247 | 0.61 | | 2 | 1220 | 0.78 | 17 | 1138 | 0.70 |
| WE | 1732 | 1.51 | TH | 1640 | 1.53 | | SA | 1324 | 0.70 | SU | 1825 | 1.59 | | SA | 1757 | 1.46 | SU | 1720 | 1.54 |
| | 2351 | 0.44 | | 2256 | 0.53 | | | | | | | | | | 2322 | 0.56 | | | |
| 3 | 0633 | 1.90 | 18 | 0538 | 1.94 | | 3 | 0059 | 0.51 | 18 | 0031 | 0.37 | | 3 | 0000 | 0.67 | 18 | 0548 | 2.08 |
| | 1252 | 0.69 | | 1204 | 0.77 | | 3 | 0737 | 2.00 | 18 | 0701 | 2.22 | | 3 | 0634 | 1.90 | 18 | 1226 | 0.55 |
| TH | 1821 | 1.51 | FR | 1739 | 1.55 | | SU | 1359 | 0.65 | MO | 1335 | 0.48 | | SU | 1257 | 0.71 | MO | 1814 | 1.66 |
| | 2350 | 0.43 | | | | | | 1935 | 1.54 | | 1919 | 1.68 | | | 1840 | 1.53 | | | |
| 4 | 0032 | 0.41 | 19 | 0627 | 2.08 | | 4 | 0133 | 0.48 | 19 | 0123 | 0.26 | | 4 | 0040 | 0.61 | 19 | 0018 | 0.42 |
| | 0713 | 1.98 | | 1259 | 0.64 | | 4 | 0810 | 2.02 | 19 | 0751 | 2.29 | | 4 | 0711 | 1.95 | 19 | 0638 | 2.17 |
| FR | 1336 | 0.64 | SU | 1833 | 1.58 | | MO | 1432 | 0.62 | TU | 1420 | 0.37 | | MO | 1330 | 0.65 | TU | 1309 | 0.42 |
| | 1906 | 1.51 | | | | | | 2010 | 1.57 | | 2010 | 1.77 | | | 1917 | 1.60 | | 1904 | 1.79 |
| 5 | 0109 | 0.40 | 20 | 0041 | 0.33 | | 5 | 0204 | 0.47 | 20 | 0213 | 0.20 | | 5 | 0116 | 0.56 | 20 | 0109 | 0.31 |
| | 0751 | 2.02 | | 0717 | 2.21 | | 5 | 0841 | 2.02 | 20 | 0839 | 2.31 | | 5 | 0744 | 1.98 | 20 | 0726 | 2.22 |
| SA | 1415 | 0.62 | SU | 1350 | 0.53 | | TU | 1501 | 0.60 | WE | 1505 | 0.30 | | TU | 1401 | 0.60 | WE | 1351 | 0.31 |
| | 1946 | 1.51 | | 1928 | 1.62 | | | 2042 | 1.58 | | 2100 | 1.82 | | | 1951 | 1.66 | | 1953 | 1.90 |
| 6 | 0143 | 0.40 | 21 | 0131 | 0.24 | | 6 | 0234 | 0.47 | 21 | 0301 | 0.20 | | 6 | 0148 | 0.53 | 21 | 0158 | 0.25 |
| | 0827 | 2.03 | | 0807 | 2.29 | | 6 | 0911 | 2.01 | 21 | 0925 | 2.25 | | 6 | 0814 | 1.99 | 21 | 0813 | 2.20 |
| SU | 1452 | 0.61 | MO | 1439 | 0.43 | | WE | 1530 | 0.59 | TH | 1548 | 0.29 | | WE | 1429 | 0.57 | TH | 1433 | 0.26 |
| | 2023 | 1.50 | | 2022 | 1.65 | | | 2114 | 1.60 | | 2147 | 1.83 | | | 2022 | 1.70 | | 2040 | 1.98 |
| 7 | 0214 | 0.43 | 22 | 0222 | 0.20 | | 7 | 0305 | 0.50 | 22 | 0350 | 0.28 | | 7 | 0218 | 0.52 | 22 | 0246 | 0.26 |
| | 0900 | 2.01 | | 0857 | 2.32 | | 7 | 0940 | 1.97 | 22 | 1009 | 2.13 | | 7 | 0842 | 1.98 | 22 | 0857 | 2.12 |
| MO | 1524 | 0.61 | TU | 1528 | 0.37 | | TH | 1559 | 0.59 | FR | 1631 | 0.33 | | TH | 1457 | 0.55 | FR | 1514 | 0.26 |
| | 2058 | 1.49 | | 2114 | 1.67 | | | 2147 | 1.60 | | 2233 | 1.81 | | | 2052 | 1.74 | | 2124 | 2.00 |
| 8 | 0245 | 0.46 | 23 | 0312 | 0.20 | | 8 | 0337 | 0.55 | 23 | 0437 | 0.41 | | 8 | 0249 | 0.52 | 23 | 0332 | 0.35 |
| | 0931 | 1.98 | | 0946 | 2.29 | | 8 | 1009 | 1.92 | 23 | 1049 | 1.96 | | 8 | 0909 | 1.96 | 23 | 0938 | 1.98 |
| TU | 1556 | 0.62 | WE | 1616 | 0.35 | | FR | 1631 | 0.61 | SA | 1713 | 0.41 | | FR | 1524 | 0.54 | SA | 1552 | 0.32 |
| | 2132 | 1.48 | | 2205 | 1.66 | | | 2221 | 1.59 | | 2319 | 1.77 | | | 2123 | 1.76 | | 2207 | 1.97 |
| 9 | 0317 | 0.50 | 24 | 0403 | 0.27 | | 9 | 0410 | 0.63 | 24 | 0527 | 0.57 | | 9 | 0321 | 0.56 | 24 | 0418 | 0.47 |
| | 1004 | 1.94 | | 1033 | 2.19 | | 9 | 1037 | 1.85 | MO | 1129 | 1.78 | | 9 | 0936 | 1.90 | 24 | 1016 | 1.82 |
| WE | 1630 | 0.64 | TH | 1706 | 0.38 | | SA | 1703 | 0.64 | SU | 1753 | 0.50 | | SA | 1553 | 0.55 | SU | 1627 | 0.42 |
| | 2208 | 1.46 | | 2256 | 1.64 | | | 2258 | 1.57 | | 2156 | 1.77 | | | 2156 | 1.77 | | 2249 | 1.92 |
| 10 | 0351 | 0.56 | 25 | 0454 | 0.39 | | 10 | 0446 | 0.72 | 25 | 0009 | 1.71 | | 10 | 0354 | 0.62 | 25 | 0506 | 0.62 |
| | 1037 | 1.88 | | 1120 | 2.05 | | 10 | 1107 | 1.76 | 25 | 0624 | 0.73 | | 10 | 1004 | 1.82 | 25 | 1053 | 0.78 |
| TH | 1706 | 0.66 | FR | 1754 | 0.43 | | SU | 1736 | 0.68 | MO | 1212 | 1.61 | | SU | 1623 | 0.58 | MO | 1701 | 0.52 |
| | 2247 | 1.43 | | 2348 | 1.60 | | | 2339 | 1.55 | | 1837 | 0.59 | | | 2231 | 1.76 | | 2332 | 1.85 |
| 11 | 0428 | 0.65 | 26 | 0549 | 0.53 | | 11 | 0528 | 0.82 | 26 | 0116 | 1.66 | | 11 | 0431 | 0.71 | 26 | 0558 | 0.75 |
| | 1111 | 1.81 | | 1205 | 1.88 | | 11 | 1141 | 1.67 | 26 | 0737 | 0.86 | | 11 | 1035 | 1.72 | 26 | 1134 | 1.51 |
| FR | 1744 | 0.70 | SU | 1843 | 0.49 | | MO | 1814 | 0.71 | TU | 1306 | 1.46 | | MO | 1654 | 0.63 | TU | 1738 | 0.63 |
| | 2329 | 1.40 | | | | | | | 1932 | 0.68 | | | | 2310 | 1.74 | | | 2310 | 1.74 |
| 12 | 0507 | 0.74 | 27 | 0050 | 1.57 | | 12 | 0031 | 1.55 | 27 | 0241 | 1.65 | | 12 | 0514 | 0.81 | 27 | 0024 | 1.77 |
| | 1146 | 1.74 | | 0652 | 0.68 | | 12 | 0624 | 0.92 | 27 | 0907 | 0.92 | | 12 | 1108 | 1.61 | 27 | 0706 | 0.86 |
| SA | 1824 | 0.72 | SU | 1255 | 1.72 | | TU | 1223 | 1.58 | WE | 1429 | 1.36 | | TU | 1729 | 0.69 | WE | 1225 | 1.39 |
| | 1936 | 0.54 | | | | | | 1902 | 0.73 | | 2043 | 0.75 | | | 2358 | 1.72 | | 1826 | 0.74 |
| 13 | 0017 | 1.39 | 28 | 0208 | 1.57 | | 13 | 0144 | 1.58 | 28 | 0359 | 1.69 | | 13 | 0609 | 0.90 | 28 | 0137 | 1.70 |
| | 0554 | 0.84 | | 0806 | 0.80 | | 13 | 0741 | 0.98 | MO | 1556 | 1.34 | | 13 | 1152 | 1.50 | 28 | 0832 | 0.91 |
| SU | 1225 | 1.67 | MO | 1357 | 1.57 | | WE | 1325 | 1.49 | TH | 1556 | 1.34 | | WE | 1817 | 0.75 | TH | 1345 | 1.31 |
| | 1909 | 0.73 | | 2034 | 0.59 | | | 2006 | 0.73 | | 2204 | 0.76 | | | | 1937 | 0.84 | | |
| 14 | 0121 | 1.41 | 29 | 0327 | 1.62 | | 14 | 0311 | 1.67 | | | | | 14 | 0104 | 1.70 | 29 | 0303 | 1.69 |
| | 0655 | 0.92 | | 0931 | 0.87 | | 14 | 0917 | 0.98 | | | | | 14 | 0728 | 0.97 | 29 | 0951 | 0.90 |
| MO | 1313 | 1.61 | TU | 1509 | 1.46 | | TH | 1505 | 1.43 | | | | | 14 | 1257 | 1.40 | FR | 1524 | 1.32 |
| | 2001 | 0.72 | | 2138 | 0.62 | | | 2119 | 0.70 | | | | | 14 | 1925 | 0.79 | 2114 | 0.88 | |
| 15 | 0239 | 1.49 | 30 | 0436 | 1.70 | | 15 | 0419 | 1.81 | | | | | 15 | 0237 | 1.74 | 30 | 0411 | 1.72 |
| | 0814 | 0.96 | | 1054 | 0.87 | | 15 | 1048 | 0.89 | | | | | 15 | 0912 | 0.95 | 30 | 1052 | 0.85 |
| TU | 1418 | 1.56 | WE | 1618 | 1.42 | | FR | 1626 | 1.45 | | | | | 15 | 1458 | 1.36 | FR | 1634 | 1.39 |
| | 2100 | 0.67 | | 2240 | 0.62 | | | 2232 | 0.62 | | | | | 15 | 2051 | 0.77 | 2231 | 0.85 | |
| | | | | | | | | | | | | | | 31 | 0506 | 1.77 | | | |
| | | | | | | | | | | | | | | 31 | 1139 | 0.78 | | | |
| | | | | | | | | | | | | | | 31 | 1728 | 1.49 | | | |
| | | | | | | | | | | | | | | 31 | 2327 | 0.78 | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – NOOSA HEAD

2019

LAT 26° 23' S LONG 153° 06' E

Times and Heights of High and Low Waters

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m |
| 1 0541 | 1.79 | 16 0542 | 1.90 | 1 0026 | 0.78 | 16 0121 | 0.59 | 1 0050 | 0.73 | 16 0158 | 0.59 | 1 0211 | 0.44 | 16 0245 | 0.51 |
| 1207 | 0.64 | 1207 | 0.37 | 0609 | 1.70 | 0657 | 1.64 | 0624 | 1.59 | 0730 | 1.51 | 0752 | 1.60 | 0828 | 1.53 |
| WE 1813 | 1.72 | TH 1828 | 1.96 | SA 1228 | 0.52 | SU 1304 | 0.35 | MO 1232 | 0.43 | TU 1330 | 0.40 | TH 1354 | 0.21 | FR 1422 | 0.42 |
| | | | | 1852 | 1.97 | 1943 | 2.12 | 1909 | 2.12 | 2011 | 2.06 | ● 2027 | 2.27 | 2055 | 1.94 |
| 2 0017 | 0.76 | 17 0038 | 0.52 | 2 0109 | 0.72 | 17 0207 | 0.57 | 2 0137 | 0.64 | 17 0237 | 0.57 | 2 0259 | 0.36 | 17 0314 | 0.51 |
| 0619 | 1.81 | 0630 | 1.88 | 0650 | 1.69 | 0742 | 1.60 | 0712 | 1.59 | 0810 | 1.50 | 0846 | 1.64 | 0900 | 1.54 |
| TH 1240 | 0.58 | FR 1248 | 0.31 | SU 1302 | 0.46 | MO 1342 | 0.37 | TU 1316 | 0.36 | WE 1405 | 0.42 | FR 1445 | 0.19 | SA 1453 | 0.45 |
| 1849 | 1.82 | 1913 | 2.07 | 1930 | 2.08 | ○ 2024 | 2.13 | 1954 | 2.21 | ○ 2047 | 2.04 | 2117 | 2.26 | 2123 | 1.89 |
| 3 0057 | 0.71 | 18 0128 | 0.49 | 3 0151 | 0.66 | 18 0251 | 0.58 | 3 0224 | 0.56 | 18 0313 | 0.57 | 3 0347 | 0.32 | 18 0343 | 0.51 |
| 0653 | 1.81 | 0716 | 1.83 | 0731 | 1.68 | 0824 | 1.55 | 0803 | 1.60 | 0848 | 1.49 | 0938 | 1.65 | 0933 | 1.54 |
| FR 1310 | 0.53 | SA 1328 | 0.29 | MO 1337 | 0.42 | TU 1418 | 0.42 | WE 1403 | 0.31 | TH 1438 | 0.45 | SA 1536 | 0.22 | SU 1524 | 0.50 |
| 1923 | 1.91 | 1957 | 2.14 | ● 2010 | 2.16 | 2102 | 2.09 | ● 2042 | 2.26 | 2120 | 1.99 | 2205 | 2.19 | 2151 | 1.83 |
| 4 0132 | 0.67 | 19 0215 | 0.49 | 4 0234 | 0.61 | 19 0332 | 0.60 | 4 0314 | 0.50 | 19 0346 | 0.59 | 4 0435 | 0.32 | 19 0413 | 0.53 |
| 0725 | 1.80 | 0801 | 1.75 | 0815 | 1.65 | 0905 | 1.51 | 0856 | 1.59 | 0924 | 1.48 | 1030 | 1.65 | 1009 | 1.53 |
| SA 1339 | 0.49 | SU 1405 | 0.32 | TU 1416 | 0.39 | WE 1452 | 0.47 | TH 1453 | 0.30 | FR 1510 | 0.49 | 1628 | 0.32 | MO 1558 | 0.58 |
| 1956 | 2.00 | ○ 2039 | 2.16 | 2054 | 2.20 | 2139 | 2.04 | 2131 | 2.25 | 2152 | 1.94 | 2251 | 2.06 | 2220 | 1.75 |
| 5 0208 | 0.63 | 20 0302 | 0.53 | 5 0321 | 0.59 | 20 0411 | 0.64 | 5 0405 | 0.47 | 20 0419 | 0.60 | 5 0524 | 0.35 | 20 0444 | 0.56 |
| 0758 | 1.78 | 0843 | 1.66 | 0903 | 1.61 | 0943 | 1.47 | 0949 | 1.58 | 1000 | 1.47 | 1122 | 1.62 | 1046 | 1.52 |
| SU 1408 | 0.46 | MO 1440 | 0.38 | WE 1500 | 0.41 | TH 1526 | 0.54 | FR 1544 | 0.34 | SA 1545 | 0.55 | 1722 | 0.45 | 1634 | 0.67 |
| ● 2031 | 2.07 | 2119 | 2.12 | 2141 | 2.20 | 2216 | 1.97 | 2222 | 2.20 | 2225 | 1.88 | 2338 | 1.89 | 2249 | 1.66 |
| 6 0246 | 0.62 | 21 0346 | 0.59 | 6 0411 | 0.59 | 21 0449 | 0.67 | 6 0458 | 0.47 | 21 0454 | 0.63 | 6 0613 | 0.40 | 21 0518 | 0.60 |
| 0834 | 1.74 | 0922 | 1.56 | 0954 | 1.55 | 1023 | 1.44 | 1043 | 1.55 | 1039 | 1.45 | 1220 | 1.60 | 1127 | 1.50 |
| MO 1440 | 0.45 | TU 1512 | 0.47 | TH 1548 | 0.46 | FR 1603 | 0.61 | SA 1638 | 0.41 | SU 1622 | 0.63 | 1824 | 0.59 | WE 1715 | 0.78 |
| 2109 | 2.11 | 2157 | 2.06 | 2231 | 2.15 | 2254 | 1.89 | 2313 | 2.11 | 2259 | 1.80 | 2321 | 1.56 | | |
| 7 0328 | 0.63 | 22 0429 | 0.66 | 7 0508 | 0.61 | 22 0531 | 0.70 | 7 0553 | 0.48 | 22 0532 | 0.66 | 7 0027 | 1.72 | 22 0554 | 0.64 |
| 0914 | 1.67 | 1002 | 1.48 | 1049 | 1.49 | 1108 | 1.41 | 1140 | 1.53 | 1121 | 1.43 | 0705 | 0.45 | 22 1215 | 1.50 |
| TU 1516 | 0.48 | WE 1545 | 0.56 | FR 1641 | 0.53 | SA 1645 | 0.70 | 1736 | 0.51 | MO 1701 | 0.73 | 1332 | 1.60 | TH 1808 | 0.87 |
| 2152 | 2.10 | 2236 | 1.98 | 2324 | 2.07 | 2334 | 1.81 | 2334 | 1.71 | | | 1936 | 0.71 | | |
| 8 0414 | 0.66 | 23 0513 | 0.72 | 8 0609 | 0.63 | 23 0617 | 0.74 | 8 0005 | 1.98 | 23 0610 | 0.69 | 8 0127 | 1.56 | 23 0000 | 1.46 |
| 0958 | 1.58 | 1044 | 1.42 | 1150 | 1.44 | 1157 | 1.38 | 0649 | 0.50 | 1207 | 1.41 | 0801 | 0.50 | 23 0639 | 0.67 |
| WE 1557 | 0.54 | TH 1624 | 0.65 | SA 1741 | 0.62 | SU 1732 | 0.79 | MO 1245 | 1.52 | TU 1746 | 0.83 | 1451 | 1.63 | 1321 | 1.52 |
| 2238 | 2.06 | 2318 | 1.89 | | | | | 1841 | 0.61 | | | 2100 | 0.78 | 1920 | 0.93 |
| 9 0507 | 0.72 | 24 0604 | 0.77 | 9 0022 | 1.98 | 24 0019 | 1.73 | 9 0101 | 1.85 | 24 0009 | 1.63 | 9 0241 | 1.44 | 24 0057 | 1.38 |
| 1047 | 1.48 | 1132 | 1.38 | 0715 | 0.63 | 0708 | 0.76 | 0745 | 0.50 | 0652 | 0.71 | 0903 | 0.53 | 24 0737 | 0.68 |
| TH 1643 | 0.62 | FR 1710 | 0.75 | SU 1303 | 1.44 | MO 1254 | 1.38 | 1400 | 1.55 | WE 1304 | 1.42 | 1603 | 1.71 | 1443 | 1.59 |
| 2330 | 1.99 | | | 1854 | 0.69 | 1826 | 0.88 | 1954 | 0.70 | 1842 | 0.91 | 2226 | 0.78 | 2053 | 0.93 |
| 10 0612 | 0.77 | 25 0007 | 1.80 | 10 0127 | 1.90 | 25 0106 | 1.67 | 10 0203 | 1.73 | 25 0052 | 1.56 | 10 0354 | 1.38 | 25 0233 | 1.32 |
| 1148 | 1.40 | 0703 | 0.80 | 0818 | 0.61 | 0758 | 0.76 | 0841 | 0.50 | 0737 | 0.71 | 1008 | 0.54 | 0846 | 0.65 |
| FR 1741 | 0.71 | SA 1232 | 1.35 | MO 1424 | 1.49 | TU 1403 | 1.40 | 1514 | 1.62 | TH 1414 | 1.48 | 1705 | 1.79 | SU 1552 | 1.72 |
| | | 1806 | 0.85 | ● 2012 | 0.73 | ○ 1932 | 0.95 | 2111 | 0.75 | ○ 1954 | 0.96 | 2334 | 0.73 | 2223 | 0.84 |
| 11 0033 | 1.91 | 26 0104 | 1.73 | 11 0233 | 1.84 | 26 0200 | 1.62 | 11 0307 | 1.63 | 26 0151 | 1.50 | 11 0457 | 1.37 | 26 0359 | 1.35 |
| 0730 | 0.78 | 0804 | 0.81 | 0916 | 0.56 | 0846 | 0.74 | 0938 | 0.49 | 0831 | 0.68 | SU 1756 | 1.87 | MO 1649 | 1.86 |
| SA 1311 | 1.36 | SU 1347 | 1.36 | TU 1533 | 1.59 | WE 1509 | 1.48 | 1620 | 1.73 | FR 1524 | 1.59 | 2327 | 0.71 | | |
| 1858 | 0.77 | 1917 | 0.92 | 2126 | 0.73 | 2047 | 0.97 | 2228 | 0.76 | 2117 | 0.96 | | | | |
| 12 0148 | 1.87 | 27 0208 | 1.68 | 12 0333 | 1.79 | 27 0258 | 1.60 | 12 0409 | 1.56 | 27 0307 | 1.46 | 12 0024 | 0.67 | 27 0500 | 1.41 |
| 0846 | 0.73 | 0900 | 0.80 | 1009 | 0.51 | 0934 | 0.70 | 1032 | 0.48 | 0928 | 0.63 | 0551 | 1.40 | 1101 | 0.47 |
| SU 1443 | 1.42 | MO 1501 | 1.41 | WE 1634 | 1.72 | TH 1605 | 1.60 | 1718 | 1.83 | SA 1621 | 1.73 | 1156 | 0.48 | TU 1740 | 2.00 |
| ● 2027 | 0.78 | ○ 2040 | 0.95 | 2235 | 0.71 | 2158 | 0.95 | 2335 | 0.73 | 2235 | 0.89 | 1839 | 1.93 | | |
| 13 0300 | 1.87 | 28 0307 | 1.67 | 13 0429 | 1.75 | 28 0353 | 1.59 | 13 0506 | 1.52 | 28 0416 | 1.46 | 13 0104 | 0.61 | 28 0019 | 0.57 |
| 0948 | 0.65 | 0950 | 0.76 | 1057 | 0.45 | 1021 | 0.64 | 1122 | 0.45 | 1025 | 0.57 | 0637 | 1.44 | 0554 | 1.49 |
| MO 1552 | 1.53 | TU 1559 | 1.50 | TH 1728 | 1.85 | FR 1654 | 1.74 | SA 1808 | 1.93 | SU 1713 | 1.87 | 1239 | 0.45 | WE 1158 | 0.35 |
| 2144 | 0.73 | 2149 | 0.94 | 2336 | 0.67 | 2302 | 0.89 | 2341 | 0.79 | | | 1918 | 1.97 | 1829 | 2.12 |
| 14 0400 | 1.89 | 29 0359 | 1.68 | 14 0520 | 1.71 | 29 0446 | 1.59 | 14 0031 | 0.68 | 29 0513 | 1.48 | 14 0140 | 0.56 | 29 0105 | 0.42 |
| 1040 | 0.55 | 1035 | 0.70 | 1141 | 0.40 | 1106 | 0.57 | 0558 | 1.51 | 1120 | 0.48 | 1316 | 0.42 | 1250 | 0.23 |
| TU 1649 | 1.67 | WE 1649 | 1.62 | FR 1816 | 1.97 | SA 1741 | 1.88 | 1208 | 0.43 | MO 1802 | 2.01 | 1952 | 1.98 | 1918 | 2.20 |
| 2249 | 0.66 | 2247 | 0.90 | | | 2359 | 0.81 | 1852 | 2.01 | | | 15 0214 | 0.53 | 30 0149 | 0.30 |
| 15 0454 | 1.90 | 30 0445 | 1.70 | 15 0031 | 0.63 | 30 0536 | 1.59 | 15 0116 | 0.63 | 30 0036 | 0.67 | 0754 | 1.51 | 30 0737 | 1.67 |
| 1126 | 0.46 | 1116 | 0.64 | 0609 | 1.68 | 1149 | 0.50 | 0646 | 1.51 | 0607 | 1.51 | 1351 | 0.41 | 1342 | 0.15 |
| WE 1741 | 1.82 | TH 1733 | 1.74 | SA 1224 | 0.36 | SU 1824 | 2.01 | 1250 | 0.41 | TU 1212 | 0.38 | 2024 | 1.97 | 2006 | 2.23 |
| 2346 | 0.58 | 2339 | 0.84 | 1900 | 2.06 | | | 1932 | 2.05 | 1850 | 2.13 | | | | |
| 31 0529 | 1.71 | | | | | | | 31 0124 | 0.55 | | | 31 0234 | 0.22 | | |
| 1153 | 0.58 | | | | | | | 0659 | 1.56 | | | 0829 | 1.74 | | |
| FR 1813 | 1.86 | | | | | | | WE 1303 | 0.29 | | | 1432 | 0.13 | | |
| | | | | | | | | 1938 | 2.23 | | | 2054 | 2.19 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – NOOSA HEAD

2019

LAT 26° 23' S LONG 153° 06' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|---------------------|-----------|------------|---------------------|---------------------|-----------|-----------|---------------------|---------------------|-----------|-----------|---------------------|---------------------|-----------|-----------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0318 0.18 | 16 0303 0.43 | 0919 1.78 | 0905 1.65 | 1 0324 0.15 | 16 0250 0.38 | 0943 1.91 | 0910 1.83 | 1 0359 0.39 | 16 0327 0.42 | 1048 1.87 | 1014 1.95 | 1 0409 0.52 | 16 0409 0.44 | 1108 1.84 | 1058 2.03 |
| SU 1521 0.18 | MO 1502 0.49 | 2139 2.08 | 2113 1.76 | TU 1555 0.34 | WE 1519 0.56 | 2151 1.72 | 2107 1.60 | FR 1728 0.62 | SA 1642 0.64 | 2249 1.29 | 2216 1.36 | SU 1758 0.66 | MO 1738 0.59 | 2316 1.26 | 2314 1.37 |
| 2 0402 0.20 | 17 0331 0.44 | 1009 1.77 | 0938 1.66 | 2 0403 0.25 | 17 0318 0.41 | 1030 1.86 | 0947 1.83 | 2 0437 0.51 | 17 0411 0.50 | 1136 1.77 | 1105 1.90 | 2 0454 0.63 | 17 0505 0.52 | 1155 1.75 | 1151 1.95 |
| MO 1612 0.30 | TU 1536 0.56 | 2223 1.91 | 2140 1.68 | WE 1647 0.48 | TH 1558 0.61 | 2232 1.54 | 2142 1.50 | SA 1833 0.69 | SU 1741 0.68 | 2341 1.20 | 2313 1.28 | MO 1854 0.69 | TU 1839 0.59 | | |
| 3 0446 0.27 | 18 0359 0.47 | 1057 1.74 | 1013 1.66 | 3 0441 0.36 | 18 0350 0.46 | 1117 1.79 | 1028 1.80 | 3 0525 0.63 | 18 0505 0.59 | 1234 1.68 | 1203 1.83 | 3 0014 1.23 | 18 0019 1.35 | 0549 0.73 | 0610 0.61 |
| TU 1705 0.45 | WE 1613 0.64 | 2306 1.72 | 2209 1.58 | TH 1746 0.62 | FR 1644 0.69 | 2315 1.37 | 2221 1.39 | SU 1945 0.72 | MO 1855 0.70 | | | TU 1250 1.67 | WE 1250 1.87 | 1952 0.71 | 1942 0.58 |
| 4 0529 0.36 | 19 0430 0.52 | 1149 1.69 | 1052 1.64 | 4 0521 0.48 | 19 0428 0.54 | 1212 1.70 | 1115 1.75 | 4 0054 1.16 | 19 0028 1.23 | 0633 0.73 | 0616 0.67 | 4 0128 1.24 | 19 0140 1.37 | 0700 0.82 | 0726 0.68 |
| WE 1804 0.61 | TH 1655 0.73 | 2350 1.53 | 2243 1.47 | FR 1900 0.72 | SA 1741 0.76 | | | MO 1348 1.62 | TU 1312 1.79 | 2051 0.71 | 2014 0.66 | WE 1350 1.61 | TH 1352 1.80 | 2047 0.70 | 2043 0.53 |
| 5 0615 0.45 | 20 0505 0.59 | 1254 1.64 | 1139 1.61 | 5 0009 1.24 | 20 0517 0.63 | 0612 0.60 | 1216 1.71 | 5 0233 1.19 | 20 0206 1.26 | 0807 0.79 | 0744 0.69 | 5 0248 1.29 | 20 0259 1.47 | 0821 0.87 | 0845 0.71 |
| TH 1919 0.73 | FR 1748 0.82 | 2324 1.36 | | SA 1326 1.64 | SU 1859 0.80 | 2027 0.75 | | TU 1457 1.60 | WE 1424 1.78 | 2147 0.68 | 2119 0.57 | TH 1449 1.58 | FR 1457 1.73 | 2137 0.67 | 2139 0.48 |
| 6 0046 1.37 | 21 0551 0.65 | 0711 0.54 | 1240 1.60 | 6 0137 1.16 | 21 0022 1.19 | 0729 0.69 | 0626 0.69 | 6 0342 1.28 | 21 0322 1.38 | 0924 0.79 | 0906 0.66 | 6 0350 1.39 | 21 0406 1.60 | 0931 0.88 | 0959 0.71 |
| FR 1417 1.63 | SA 1903 0.88 | 0205 0.78 | | SU 1448 1.63 | MO 1335 1.69 | 2141 0.73 | 2037 0.76 | WE 1552 1.61 | TH 1527 1.80 | 2234 0.62 | 2212 0.47 | FR 1541 1.57 | SA 1557 1.68 | 2222 0.62 | 2231 0.42 |
| 7 0213 1.26 | 22 0026 1.26 | 0822 0.61 | 0654 0.69 | 7 0317 1.19 | 22 0223 1.20 | 0900 0.72 | 0757 0.70 | 7 0435 1.38 | 22 0421 1.53 | 1025 0.76 | 1014 0.60 | 7 0440 1.51 | 22 0504 1.75 | 1032 0.86 | 1108 0.68 |
| SA 1534 1.67 | SU 1406 1.63 | 2214 0.76 | 02047 0.86 | MO 1554 1.65 | TU 1454 1.74 | 2239 0.67 | 2150 0.65 | TH 1640 1.64 | FR 1622 1.81 | 2315 0.56 | 2258 0.37 | SA 1629 1.58 | SU 1652 1.64 | 2303 0.56 | 2319 0.36 |
| 8 0340 1.25 | 23 0227 1.22 | 0939 0.62 | 0816 0.68 | 8 0422 1.27 | 23 0340 1.31 | 1011 0.69 | 0924 0.63 | 8 0519 1.50 | 23 0514 1.69 | 1116 0.71 | 1115 0.53 | 8 0524 1.64 | 23 0555 1.88 | 1127 0.82 | 1209 0.63 |
| SU 1638 1.72 | MO 1524 1.72 | 2316 0.70 | 2211 0.75 | TU 1647 1.69 | WE 1556 1.82 | 2323 0.61 | 2243 0.51 | FR 1722 1.67 | SA 1712 1.81 | 2351 0.49 | 2341 0.27 | SU 1714 1.59 | MO 1745 1.60 | 2341 0.50 | |
| 9 0446 1.29 | 24 0351 1.29 | 1045 0.60 | 0938 0.61 | 9 0512 1.37 | 24 0437 1.45 | 1107 0.64 | 1031 0.52 | 9 0559 1.61 | 24 0602 1.85 | 1201 0.66 | 1209 0.47 | 9 0605 1.76 | 24 0003 0.31 | 1215 0.77 | 0643 2.00 |
| MO 1730 1.78 | TU 1623 1.84 | 2309 0.60 | | WE 1732 1.73 | TH 1649 1.90 | | | SA 1801 1.68 | SU 1800 1.78 | | | MO 1756 1.58 | TU 1303 0.58 | 1836 1.57 | |
| 10 0001 0.63 | 25 0449 1.40 | 0538 1.36 | 1047 0.49 | 10 0000 0.54 | 25 0527 1.61 | 0553 1.47 | 1128 0.41 | 10 0024 0.44 | 25 0022 0.20 | 0636 1.71 | 0648 1.98 | 10 0015 0.45 | 25 0045 0.28 | 0643 1.87 | 0727 2.08 |
| TU 1137 0.55 | WE 1715 1.96 | 1813 1.83 | 2355 0.45 | TH 1152 0.58 | FR 1737 1.95 | 1811 1.77 | | SU 1241 0.63 | MO 1302 0.43 | 1836 1.68 | 1847 1.74 | TU 1259 0.71 | WE 1352 0.54 | 1836 1.57 | 1924 1.54 |
| 11 0038 0.57 | 26 0541 1.53 | 0620 1.44 | 1143 0.35 | 11 0033 0.48 | 26 0009 0.25 | 0631 1.56 | 0614 1.77 | 11 0053 0.40 | 26 0102 0.16 | 0709 1.80 | 0734 2.07 | 11 0048 0.41 | 26 0126 0.28 | 0719 1.97 | 0810 2.12 |
| WE 1220 0.49 | TH 1805 2.06 | 1850 1.87 | | FR 1231 0.53 | SA 1221 0.32 | 1845 1.79 | 1824 1.97 | MO 1318 0.60 | TU 1353 0.41 | 1908 1.66 | 1935 1.66 | WE 1340 0.66 | TH 1438 0.52 | 1916 1.55 | 2009 1.51 |
| 12 0111 0.51 | 27 0038 0.31 | 0657 1.51 | 0629 1.66 | 12 0104 0.43 | 27 0050 0.15 | 0705 1.64 | 0701 1.90 | 12 0121 0.37 | 27 0142 0.17 | 0741 1.87 | 0819 2.11 | 12 0121 0.37 | 27 0206 0.31 | 0756 2.05 | 0851 2.10 |
| TH 1257 0.45 | FR 1236 0.23 | 1923 1.89 | 1852 2.12 | SA 1307 0.51 | SU 1311 0.26 | 1917 1.78 | 1911 1.93 | TU 1354 0.59 | WE 1443 0.43 | 1938 1.63 | 2020 1.57 | TH 1420 0.61 | FR 1521 0.53 | 1956 1.53 | 2051 1.47 |
| 13 0142 0.47 | 28 0120 0.19 | 0732 1.56 | 0718 1.79 | 13 0132 0.39 | 28 0130 0.09 | 0737 1.70 | 0748 2.00 | 13 0148 0.35 | 28 0220 0.23 | 0814 1.94 | 0902 2.09 | 13 0156 0.34 | 28 0241 0.37 | 0836 2.10 | 0929 2.05 |
| FR 1331 0.43 | SA 1326 0.16 | 1954 1.88 | 1939 2.11 | SU 1340 0.50 | MO 1401 0.26 | 1944 1.76 | 1956 1.85 | WE 1429 0.57 | TH 1532 0.48 | 2011 1.59 | 2104 1.47 | FR 1504 0.58 | SA 1602 0.56 | 2040 1.51 | 2131 1.43 |
| 14 0210 0.44 | 29 0202 0.12 | 0804 1.60 | 0808 1.88 | 14 0158 0.38 | 29 0210 0.10 | 0807 1.75 | 0835 2.05 | 14 0217 0.35 | 29 0256 0.32 | 0850 1.98 | 0945 2.03 | 14 0236 0.34 | 29 0316 0.44 | 0921 2.12 | 1006 1.98 |
| SA 1402 0.44 | SU 1415 0.15 | 0222 1.86 | 0204 2.04 | MO 1411 0.51 | TU 1451 0.31 | 0210 1.72 | 2041 1.72 | TH 1508 0.58 | FR 1619 0.55 | 2048 1.53 | 2146 1.38 | SA 1550 0.56 | SU 1642 0.60 | 2127 1.47 | 2209 1.40 |
| 15 0237 0.43 | 30 0243 0.10 | 0834 1.63 | 0856 1.92 | 15 0224 0.37 | 30 0248 0.16 | 0837 1.79 | 0920 2.03 | 15 0250 0.37 | 30 0331 0.42 | 0929 1.98 | 1025 1.94 | 15 0321 0.37 | 30 0352 0.51 | 1008 2.09 | 1043 1.90 |
| SU 1432 0.46 | MO 1505 0.22 | 2047 1.82 | 2109 1.90 | TU 1444 0.52 | WE 1542 0.41 | 2037 1.67 | 2124 1.56 | FR 1552 0.60 | SA 1708 0.61 | 2129 1.45 | 2228 1.31 | SU 1642 0.57 | MO 1720 0.63 | 2218 1.42 | 2251 1.38 |
| | | | | 31 0324 0.27 | | | | | | | | 31 0432 0.61 | | | |
| | | | | 1004 1.96 | | | | | | | | 1122 1.82 | | | |
| | | | | 1632 0.52 | | | | | | | | TU 1802 0.67 | | | |
| | | | | 2205 1.41 | | | | | | | | 2336 1.35 | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – WADDY POINT (FRASER ISLAND)

2019

LAT 24° 58' S LONG 153° 21' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0504 | 1.75 | 16 | 0411 | 1.59 |
| 1057 | 0.90 | | 1002 | 0.95 | |
| TU | 1636 | 1.51 | WE | 1538 | 1.44 |
| | 2251 | 0.57 | | 2206 | 0.53 |
| | | | | | |
| 2 | 0551 | 1.86 | 17 | 0500 | 1.74 |
| 1155 | 0.84 | | 1112 | 0.86 | |
| WE | 1730 | 1.46 | TH | 1637 | 1.42 |
| | 2330 | 0.54 | | 2254 | 0.46 |
| | | | | | |
| 3 | 0631 | 1.95 | 18 | 0543 | 1.90 |
| 1243 | 0.79 | | 1208 | 0.75 | |
| TH | 1819 | 1.43 | FR | 1732 | 1.42 |
| | | 2339 | 0.39 | | |
| | | | | | |
| 4 | 0007 | 0.52 | 19 | 0626 | 2.07 |
| 0708 | 2.02 | | 1258 | 0.63 | |
| FR | 1326 | 0.73 | SA | 1825 | 1.46 |
| | 1903 | 1.42 | | | |
| | | | | | |
| 5 | 0042 | 0.51 | 20 | 0026 | 0.32 |
| 0744 | 2.07 | | 0710 | 2.22 | |
| SA | 1408 | 0.69 | SU | 1345 | 0.52 |
| | 1943 | 1.41 | | 1918 | 1.51 |
| | | | | | |
| 6 | 0116 | 0.51 | 21 | 0113 | 0.27 |
| 0819 | 2.08 | | 0756 | 2.34 | |
| SU | 1447 | 0.67 | MO | 1432 | 0.44 |
| | 2020 | 1.41 | | 2013 | 1.55 |
| | | | | | |
| 7 | 0149 | 0.53 | 22 | 0201 | 0.27 |
| 0852 | 2.07 | | 0846 | 2.39 | |
| MO | 1524 | 0.67 | TU | 1520 | 0.40 |
| | 2053 | 1.40 | | 2107 | 1.58 |
| | | | | | |
| 8 | 0222 | 0.56 | 23 | 0251 | 0.32 |
| 0924 | 2.03 | | 0936 | 2.36 | |
| TU | 1601 | 0.69 | WE | 1609 | 0.43 |
| | 2125 | 1.39 | | 2202 | 1.58 |
| | | | | | |
| 9 | 0256 | 0.61 | 24 | 0342 | 0.44 |
| 0957 | 1.97 | | 1027 | 2.26 | |
| WE | 1637 | 0.71 | TH | 1658 | 0.49 |
| | 2159 | 1.38 | | 2257 | 1.57 |
| | | | | | |
| 10 | 0333 | 0.66 | 25 | 0435 | 0.59 |
| 1032 | 1.91 | | 1117 | 2.10 | |
| TH | 1717 | 0.73 | FR | 1747 | 0.58 |
| | 2241 | 1.37 | | 2356 | 1.55 |
| | | | | | |
| 11 | 0413 | 0.73 | 26 | 0532 | 0.76 |
| 1110 | 1.83 | | 1207 | 1.92 | |
| FR | 1759 | 0.74 | SA | 1838 | 0.65 |
| | 2331 | 1.35 | | | |
| | | | | | |
| 12 | 0501 | 0.82 | 27 | 0104 | 1.55 |
| 1151 | 1.74 | | 0640 | 0.91 | |
| SA | 1844 | 0.73 | SU | 1259 | 1.74 |
| | | 1932 | 0.71 | | |
| | | | | | |
| 13 | 0033 | 1.35 | 28 | 0225 | 1.59 |
| 0603 | 0.91 | | 0806 | 1.01 | |
| SU | 1238 | 1.65 | MO | 1357 | 1.58 |
| | 1932 | 0.70 | | 2032 | 0.74 |
| | | | | | |
| 14 | 0152 | 1.38 | 29 | 0343 | 1.67 |
| 0717 | 0.97 | | 0940 | 1.04 | |
| MO | 1331 | 1.56 | TU | 1504 | 1.46 |
| | 2023 | 0.66 | | 2131 | 0.74 |
| | | | | | |
| 15 | 0311 | 1.46 | 30 | 0446 | 1.77 |
| 0838 | 0.99 | | 1100 | 1.00 | |
| TU | 1433 | 1.49 | WE | 1614 | 1.38 |
| | 2115 | 0.60 | | 2224 | 0.73 |
| | | | | | |
| | | | | | |
| 31 | 0535 | 1.85 | | | |
| | 1158 | 0.93 | | | |
| TH | 1720 | 1.35 | | | |
| | 2310 | 0.69 | | | |

FEBRUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0617 | 1.93 | 16 | 0519 | 1.94 |
| 1241 | 0.86 | | 1200 | 0.74 | |
| FR | 1814 | 1.36 | SA | 1725 | 1.40 |
| | 2351 | 0.66 | | 2324 | 0.51 |
| | | | | | |
| 2 | 0653 | 1.98 | 17 | 0607 | 2.09 |
| 1319 | 0.78 | | 1247 | 0.60 | |
| SA | 1858 | 1.39 | SU | 1821 | 1.47 |
| | | | | | |
| 3 | 0028 | 0.61 | 18 | 0016 | 0.41 |
| 0728 | 2.02 | | 0653 | 2.23 | |
| SU | 1354 | 0.72 | MO | 1330 | 0.49 |
| | 1937 | 1.42 | | 1913 | 1.56 |
| | | | | | |
| 4 | 0104 | 0.58 | 19 | 0104 | 0.33 |
| 0802 | 2.04 | | 0739 | 2.32 | |
| MO | 1429 | 0.68 | TU | 1412 | 0.41 |
| | 2010 | 1.44 | | 2003 | 1.65 |
| | | | | | |
| 5 | 0137 | 0.56 | 20 | 0151 | 0.30 |
| 0834 | 2.02 | | 0827 | 2.34 | |
| TU | 1501 | 0.66 | WE | 1455 | 0.39 |
| | 2041 | 1.46 | | 2053 | 1.72 |
| | | | | | |
| 6 | 0211 | 0.57 | 21 | 0239 | 0.35 |
| 0905 | 1.99 | | 0914 | 2.29 | |
| WE | 1532 | 0.67 | TH | 1538 | 0.42 |
| | 2110 | 1.48 | | 2143 | 1.75 |
| | | | | | |
| 7 | 0244 | 0.59 | 22 | 0328 | 0.46 |
| 0935 | 1.94 | | 1002 | 2.16 | |
| TH | 1604 | 0.68 | FR | 1622 | 0.50 |
| | 2142 | 1.49 | | 2233 | 1.75 |
| | | | | | |
| 8 | 0319 | 0.65 | 23 | 0421 | 0.63 |
| 1006 | 1.88 | | 1048 | 1.98 | |
| FR | 1636 | 0.69 | SA | 1706 | 0.60 |
| | 2218 | 1.50 | | 2326 | 1.74 |
| | | | | | |
| 9 | 0355 | 0.72 | 24 | 0520 | 0.81 |
| 1039 | 1.81 | | 1134 | 1.79 | |
| SA | 1709 | 0.70 | SU | 1751 | 0.70 |
| | 2302 | 1.50 | | | |
| | | | | | |
| 10 | 0437 | 0.81 | 25 | 0026 | 1.72 |
| 1115 | 1.72 | | 0632 | 0.96 | |
| SU | 1746 | 0.71 | MO | 1222 | 1.61 |
| | 2352 | 1.50 | | 1840 | 0.78 |
| | | | | | |
| 11 | 0529 | 0.91 | 26 | 0139 | 1.71 |
| 1156 | 1.62 | | 0759 | 1.05 | |
| MO | 1827 | 0.71 | TU | 1320 | 1.46 |
| | | | | 1938 | 0.85 |
| | | | | | |
| 12 | 0052 | 1.51 | 27 | 0259 | 1.73 |
| 0637 | 0.99 | | 0933 | 1.06 | |
| TU | 1243 | 1.52 | WE | 1435 | 1.36 |
| | 1916 | 0.71 | | 2043 | 0.88 |
| | | | | | |
| 13 | 0209 | 1.55 | 28 | 0410 | 1.78 |
| 0801 | 1.03 | | 1054 | 1.01 | |
| WE | 1344 | 1.43 | TH | 1600 | 1.31 |
| | 2013 | 0.70 | | 2150 | 0.88 |
| | | | | | |
| 14 | 0325 | 1.65 | | | |
| 0947 | 0.99 | | | | |
| TH | 1507 | 1.36 | | | |
| | 2119 | 0.67 | | | |
| | | | | | |
| 15 | 0426 | 1.78 | | | |
| 1106 | 0.88 | | | | |
| FR | 1621 | 1.36 | | | |
| | 2227 | 0.60 | | | |
| | | | | | |
| | | | | | |
| 31 | 0535 | 1.85 | | | |
| | 1158 | 0.93 | | | |
| TH | 1720 | 1.35 | | | |
| | 2310 | 0.69 | | | |

MARCH

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0505 | 1.83 | 16 | 0352 | 1.84 |
| 1146 | 0.93 | | 1050 | 0.82 | |
| FR | 1715 | 1.32 | SA | 1621 | 1.36 |
| | 2247 | 0.84 | | 2207 | 0.72 |
| | | | | | |
| 2 | 0548 | 1.87 | 17 | 0452 | 1.97 |
| 1222 | 0.85 | | 1142 | 0.67 | |
| SA | 1807 | 1.37 | SU | 1726 | 1.45 |
| | 2332 | 0.78 | | 2313 | 0.61 |
| | | | | | |
| 3 | 0626 | 1.91 | 18 | 0545 | 2.09 |
| 1254 | 0.76 | | 1226 | 0.55 | |
| SU | 1845 | 1.43 | MO | 1819 | 1.56 |
| | | | | | |
| 4 | 0012 | 0.70 | 19 | 0005 | 0.49 |
| 0700 | 1.95 | | 0632 | 2.18 | |
| MO | 1325 | 0.69 | TU | 1304 | 0.45 |
| | 1920 | 1.49 | | 1905 | 1.69 |
| | | | | | |
| 5 | 0047 | 0.63 | 20 | 0052 | 0.41 |
| 0733 | 1.96 | | 0718 | 2.22 | |
| TU | 1355 | 0.64 | WE | 1342 | 0.39 |
| | 1951 | 1.54 | | 1949 | 1.80 |
| | | | | | |
| 6 | 0121 | 0.59 | 21 | 0137 | 0.38 |
| 0804 | 1.95 | | 0803 | 2.19 | |
| WE | 1423 | 0.61 | TH | 1420 | 0.39 |
| | 2020 | 1.59 | | 2034 | 1.89 |
| | | | | | |
| 7 | 0156 | 0.58 | 22 | 0224 | 0.43 |
| 0834 | 1.92 | | 0847 | 2.11 | |
| TH | 1451 | 0.60 | FR | 1500 | 0.43 |
| | 2150 | 1.63 | | 2120 | 1.94 |
| | | | | | |
| 8 | 0230 | 0.60 | 23 | 0314 | 0.54 |
| 0903 | 1.87 | | 0931 | 1.97 | |
| FR | 1519 | 0.61 | SA | 1538 | 0.52 |
| | 2121 | 1.67 | | 2206 | 1.95 |
| | | | | | |
| 9 | 0305 | 0.65 | 24 | 0407 | 0.69 |
| 0934 | 1.81 | | 1015 | 1.80 | |
| SA | 1547 | 0.62 | SU | 1616 | 0.63 |
| | 2157 | 1.69 | | 2254 | 1.93 |
| | | | | | |
| 10 | 0342 | 0.73 | 25 | 0509 | 0.84 |
| 1008 | 1.74 | | 1058 | 1.63 | |
| SU | 1616 | 0.64 | MO | 1655 | 0.74 |
| | 2237 | 1.70 | | 2346 | 1.89 |
| | | | | | |
| 11 | 0423 | 0.82 | 26 | 0621 | 0.96 |
| 1044 | 1.65 | | 1147 | 1.49 | |
| MO | 1649 | 0.68 | TU | 1739 | 0.84 |
| | 2321 | 1.70 | | | |
| | | | | | |
| 12 | 0513 | 0.91 | 27 | 0045 | 1.84 |
| 1124 | 1.54 | | 0742 | 1.02 | |

AUSTRALIA, EAST COAST – WADDY POINT (FRASER ISLAND)

2019

LAT 24° 58' S LONG 153° 21' E

Times and Heights of High and Low Waters

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m |
| 1 0541 | 1.74 | 16 0550 | 1.86 | 1 0024 | 0.78 | 16 0123 | 0.75 | 1 0104 | 0.77 | 16 0215 | 0.72 | 1 0227 | 0.50 | 16 0303 | 0.60 |
| 1204 | 0.61 | 1205 | 0.50 | 0617 | 1.57 | 0711 | 1.53 | 0637 | 1.40 | 0759 | 1.41 | 0807 | 1.44 | 0853 | 1.43 |
| WE 1825 | 1.65 | TH 1840 | 1.89 | SA 1224 | 0.48 | SU 1256 | 0.56 | MO 1235 | 0.46 | TU 1327 | 0.60 | TH 1351 | 0.35 | FR 1420 | 0.56 |
| | | | | 1905 | 1.89 | 1954 | 2.07 | 1923 | 1.99 | 2027 | 2.04 | ● 2035 | 2.20 | 2112 | 1.89 |
| 2 0001 | 0.76 | 17 0030 | 0.65 | 2 0106 | 0.73 | 17 0213 | 0.73 | 2 0151 | 0.69 | 17 0255 | 0.69 | 2 0310 | 0.44 | 17 0334 | 0.62 |
| 0615 | 1.74 | 0635 | 1.81 | 0655 | 1.55 | 0757 | 1.49 | 0723 | 1.42 | 0839 | 1.41 | 0857 | 1.50 | 0922 | 1.43 |
| TH 1230 | 0.53 | FR 1239 | 0.48 | SU 1255 | 0.44 | MO 1333 | 0.58 | TU 1316 | 0.43 | WE 1403 | 0.61 | FR 1439 | 0.35 | SA 1452 | 0.59 |
| 1857 | 1.75 | 1921 | 2.01 | 1939 | 2.00 | ○ 2034 | 2.10 | 2005 | 2.11 | ○ 2105 | 2.02 | 2124 | 2.22 | 2143 | 1.83 |
| 3 0040 | 0.70 | 18 0118 | 0.64 | 3 0151 | 0.70 | 18 0302 | 0.73 | 3 0239 | 0.62 | 18 0334 | 0.69 | 3 0355 | 0.43 | 18 0404 | 0.64 |
| 0648 | 1.72 | 0718 | 1.74 | 0737 | 1.54 | 0840 | 1.46 | 0814 | 1.44 | 0914 | 1.40 | 0948 | 1.53 | 0952 | 1.44 |
| FR 1257 | 0.48 | SA 1314 | 0.48 | MO 1330 | 0.43 | TU 1409 | 0.63 | WE 1400 | 0.42 | TH 1438 | 0.64 | SA 1529 | 0.41 | SU 1525 | 0.64 |
| 1928 | 1.85 | 2001 | 2.09 | ● 2018 | 2.09 | 2114 | 2.09 | ● 2051 | 2.19 | 2140 | 1.98 | 2213 | 2.17 | 2212 | 1.75 |
| 4 0118 | 0.66 | 19 0208 | 0.66 | 4 0239 | 0.67 | 19 0349 | 0.75 | 4 0328 | 0.57 | 19 0411 | 0.72 | 4 0442 | 0.46 | 19 0434 | 0.67 |
| 0722 | 1.70 | 0802 | 1.66 | 0822 | 1.52 | 0920 | 1.42 | 0907 | 1.46 | 0946 | 1.38 | 1040 | 1.55 | 1023 | 1.44 |
| SA 1326 | 0.45 | SU 1349 | 0.52 | TU 1408 | 0.46 | WE 1444 | 0.69 | TH 1448 | 0.45 | FR 1511 | 0.67 | SU 1621 | 0.52 | MO 1602 | 0.70 |
| 2001 | 1.95 | ○ 2043 | 2.14 | 2101 | 2.15 | 2152 | 2.05 | 2140 | 2.21 | 2213 | 1.91 | 2303 | 2.05 | 2243 | 1.67 |
| 5 0158 | 0.66 | 20 0300 | 0.71 | 5 0331 | 0.66 | 20 0432 | 0.79 | 5 0419 | 0.56 | 20 0446 | 0.75 | 5 0529 | 0.53 | 20 0506 | 0.69 |
| 0758 | 1.66 | 0845 | 1.58 | 0912 | 1.48 | 0957 | 1.39 | 1003 | 1.46 | 1018 | 1.37 | 1136 | 1.54 | 1101 | 1.44 |
| SU 1356 | 0.44 | MO 1423 | 0.60 | WE 1452 | 0.52 | TH 1520 | 0.74 | 1540 | 0.52 | SA 1546 | 0.72 | 1719 | 0.66 | TU 1642 | 0.79 |
| ● 2036 | 2.02 | 2124 | 2.13 | 2148 | 2.16 | 2230 | 1.98 | 2232 | 2.18 | 2247 | 1.84 | 2353 | 1.89 | 2315 | 1.57 |
| 6 0241 | 0.67 | 21 0354 | 0.77 | 6 0426 | 0.68 | 21 0515 | 0.83 | 6 0510 | 0.58 | 21 0522 | 0.78 | 6 0619 | 0.61 | 21 0539 | 0.71 |
| 0838 | 1.62 | 0926 | 1.49 | 1007 | 1.43 | 1035 | 1.36 | 1101 | 1.44 | 1052 | 1.35 | 1240 | 1.54 | 1146 | 1.43 |
| MO 1429 | 0.48 | TU 1456 | 0.68 | TH 1539 | 0.61 | FR 1559 | 0.80 | 1633 | 0.61 | SU 1625 | 0.78 | 1826 | 0.81 | WE 1731 | 0.89 |
| 2116 | 2.07 | 2204 | 2.10 | 2239 | 2.13 | 2308 | 1.90 | 2325 | 2.09 | 2322 | 1.76 | 2351 | 1.47 | | |
| 7 0328 | 0.71 | 22 0447 | 0.83 | 7 0524 | 0.71 | 22 0557 | 0.86 | 7 0604 | 0.63 | 22 0600 | 0.80 | 7 0713 | 0.68 | 22 1240 | 1.42 |
| 0922 | 1.55 | 1008 | 1.43 | 1108 | 1.38 | 1117 | 1.33 | 1201 | 1.43 | 1136 | 1.34 | 1356 | 1.57 | TH 1835 | 0.97 |
| TU 1504 | 0.55 | WE 1531 | 0.77 | FR 1631 | 0.71 | SA 1644 | 0.86 | 1729 | 0.72 | MO 1711 | 0.85 | 1951 | 0.92 | | |
| 2158 | 2.07 | 2245 | 2.03 | 2335 | 2.06 | 2351 | 1.82 | | | | | | | | |
| 8 0421 | 0.76 | 23 0539 | 0.88 | 8 0623 | 0.74 | 23 0644 | 0.87 | 8 0659 | 0.68 | 23 0643 | 0.80 | 8 0814 | 0.73 | 23 0658 | 0.74 |
| 1010 | 1.47 | 1052 | 1.37 | 1216 | 1.35 | 1213 | 1.31 | 1309 | 1.43 | 1232 | 1.33 | 1517 | 1.63 | FR 1353 | 1.44 |
| WE 1543 | 0.64 | TH 1612 | 0.86 | SA 1729 | 0.80 | SU 1739 | 0.92 | 1833 | 0.83 | 1807 | 0.92 | 2128 | 0.96 | 2003 | 1.01 |
| 2244 | 2.04 | 2329 | 1.95 | | | | | | | | | | | | |
| 9 0521 | 0.81 | 24 0631 | 0.91 | 9 0035 | 1.98 | 24 0040 | 1.73 | 9 0117 | 1.84 | 24 0043 | 1.57 | 9 0301 | 1.41 | 24 0131 | 1.27 |
| 1104 | 1.38 | 1145 | 1.33 | 0725 | 0.76 | 0736 | 0.86 | 0757 | 0.72 | 0728 | 0.79 | 0919 | 0.75 | FR 1628 | 1.71 |
| TH 1627 | 0.75 | FR 1703 | 0.93 | SU 1330 | 1.36 | MO 1329 | 1.31 | 1426 | 1.48 | WE 1347 | 1.34 | 1511 | 1.50 | 2258 | 0.92 |
| 2337 | 1.98 | | | 1838 | 0.87 | 1844 | 0.97 | 1951 | 0.91 | 1914 | 0.99 | 2157 | 0.97 | | |
| 10 0628 | 0.85 | 25 0019 | 1.85 | 10 0137 | 1.90 | 25 0135 | 1.65 | 10 0217 | 1.71 | 25 0131 | 1.47 | 10 0421 | 1.33 | 25 0258 | 1.20 |
| 1213 | 1.32 | 0729 | 0.92 | 0831 | 0.75 | 0832 | 0.83 | 0858 | 0.72 | 0817 | 0.77 | 1020 | 0.74 | 29 0902 | 0.72 |
| FR 1722 | 0.84 | SA 1257 | 1.30 | MO 1446 | 1.42 | TU 1451 | 1.34 | 1542 | 1.57 | TH 1505 | 1.40 | 1725 | 1.79 | SU 1615 | 1.61 |
| 1809 | 0.99 | 1809 | 0.99 | ● 1956 | 0.91 | ○ 1955 | 1.00 | 2121 | 0.95 | ○ 2036 | 1.03 | 2307 | 0.86 | | |
| 11 0040 | 1.93 | 26 0119 | 1.77 | 11 0241 | 1.83 | 26 0233 | 1.57 | 11 0323 | 1.59 | 26 0229 | 1.38 | 11 0005 | 0.86 | 26 0417 | 1.19 |
| 0743 | 0.84 | 0832 | 0.90 | 0931 | 0.72 | 0924 | 0.78 | 0954 | 0.71 | 0909 | 0.73 | 0533 | 1.30 | 1017 | 0.66 |
| SA 1339 | 1.31 | SU 1427 | 1.31 | TU 1557 | 1.53 | WE 1559 | 1.42 | 1646 | 1.68 | FR 1610 | 1.48 | 1111 | 0.72 | MO 1709 | 1.74 |
| 1837 | 0.90 | 1921 | 1.03 | 2123 | 0.90 | 2112 | 1.01 | 2245 | 0.93 | 2210 | 1.01 | 1812 | 1.86 | 2358 | 0.72 |
| 12 0153 | 1.89 | 27 0224 | 1.70 | 12 0343 | 1.76 | 27 0328 | 1.51 | 12 0430 | 1.49 | 27 0335 | 1.31 | 12 0050 | 0.79 | 27 0525 | 1.24 |
| 0859 | 0.79 | 0933 | 0.85 | 1022 | 0.67 | 1006 | 0.71 | 1044 | 0.69 | 1002 | 0.68 | 0627 | 1.32 | 1116 | 0.56 |
| SU 1500 | 1.38 | MO 1542 | 1.37 | 1656 | 1.66 | TH 1651 | 1.52 | 1739 | 1.79 | SA 1701 | 1.60 | 1156 | 0.68 | TU 1757 | 1.89 |
| ● 2004 | 0.91 | ○ 2037 | 1.02 | 2237 | 0.87 | 2226 | 0.97 | 2353 | 0.89 | 2321 | 0.93 | 1852 | 1.91 | | |
| 13 0302 | 1.89 | 28 0325 | 1.66 | 13 0443 | 1.70 | 28 0418 | 1.46 | 13 0532 | 1.43 | 28 0437 | 1.28 | 13 0123 | 0.72 | 28 0621 | 1.32 |
| 0959 | 0.71 | 1019 | 0.78 | 1105 | 0.62 | 1045 | 0.64 | 1127 | 0.66 | 1051 | 0.62 | 0710 | 1.35 | TU 1237 | 0.63 |
| MO 1611 | 1.49 | TU 1638 | 1.45 | 1747 | 1.79 | FR 1733 | 1.63 | 1826 | 1.89 | SU 1744 | 1.72 | 1930 | 1.94 | WE 1205 | 0.45 |
| 2135 | 0.86 | 2152 | 0.98 | 2339 | 0.82 | 2326 | 0.92 | | | | | 1841 | 2.02 | | |
| 14 0404 | 1.90 | 29 0416 | 1.63 | 14 0536 | 1.63 | 29 0506 | 1.43 | 14 0048 | 0.83 | 29 0014 | 0.83 | 14 0156 | 0.65 | 29 0121 | 0.45 |
| 1049 | 0.62 | 1054 | 0.69 | 1142 | 0.58 | 1121 | 0.57 | 0626 | 1.41 | 0534 | 1.28 | 0747 | 1.39 | 0707 | 1.42 |
| TU 1708 | 1.63 | WE 1722 | 1.56 | FR 1831 | 1.90 | SA 1809 | 1.74 | SU 1207 | 0.63 | MO 1136 | 0.55 | 1314 | 0.58 | TH 1251 | 0.35 |
| 2244 | 0.77 | 2251 | 0.91 | | | | | 1908 | 1.96 | 1826 | 1.86 | 2006 | 1.95 | 1925 | 2.13 |
| 15 0500 | 1.89 | 30 0501 | 1.61 | 15 0033 | 0.78 | 30 0017 | 0.85 | 15 0133 | 0.77 | 30 0101 | 0.71 | 15 0229 | 0.61 | 30 0158 | 0.36 |
| 1129 | 0.55 | 1124 | 0.61 | 0626 | 1.58 | 0551 | 1.41 | 0715 | 1.40 | 0628 | 1.31 | 0822 | 1.42 | 0751 | 1.52 |
| WE 1756 | 1.77 | TH 1758 | 1.66 | SA 1219 | 0.56 | SU 1158 | 0.51 | MO 1247 | 0.61 | TU 1221 | 0.47 | 1349 | 0.56 | FR 1336 | 0.28 |
| 2340 | 0.70 | 2339 | 0.84 | 1913 | 2.00 | 1845 | 1.87 | 1947 | 2.01 | 1906 | 2.00 | ○ 2040 | 1.94 | ● 2010 | 2.18 |
| 31 0539 | 1.59 | | | | | | | | | | | 31 0144 | 0.60 | 31 0237 | 0.31 |
| 1153 | 0.53 | | | | | | | | | | | 0718 | 1.37 | 0836 | 1.62 |
| FR 1832 | 1.77 | | | | | | | | | | | WE 1306 | 0.40 | SA 1422 | 0.27 |
| | | | | | | | | | | | | 1949 | 2.12 | 2055 | 2.16 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – WADDY POINT (FRASER ISLAND)

2019

LAT 24° 58' S LONG 153° 21' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Time | m |
| 1 0317 0.31 | 16 0308 0.51 | 1 0312 0.30 | 16 0243 0.39 | 1 0340 0.54 | 16 0314 0.46 | 1 0348 0.68 | 16 0350 0.54 | 1 0348 0.68 | 16 0350 0.54 | 1 0348 0.68 | 16 0350 0.54 | 1 0348 0.68 | 16 0350 0.54 | 1 0348 0.68 | 16 0350 0.54 |
| 0924 1.68 | | 0943 1.93 | 16 0918 1.59 | 0943 2.02 | 16 1014 2.01 | 1102 1.98 | 16 1051 2.09 | 1102 1.98 | 16 1051 2.09 | 1102 1.98 | 16 1051 2.09 | 1102 1.98 | 16 1051 2.09 | 1102 1.98 | 16 1051 2.09 |
| SU 1510 0.34 | MO 1501 0.57 | TU 1545 0.48 | WE 1519 0.59 | FR 1735 0.72 | SA 1648 0.65 | 1800 0.75 | MO 1736 0.59 |
| 2142 2.07 | 2128 1.66 | 2152 1.73 | 2121 1.50 | 2254 1.32 | 2227 1.30 | 2315 1.26 | 2323 1.31 | 2315 1.26 | 2323 1.31 | 2315 1.26 | 2323 1.31 | 2315 1.26 | 2323 1.31 | 2315 1.26 | 2323 1.31 |
| 2 0359 0.37 | 17 0335 0.53 | 2 0351 0.41 | 17 0311 0.44 | 2 0419 0.67 | 17 0355 0.57 | 2 0434 0.78 | 17 0443 0.65 | 2 0434 0.78 | 17 0443 0.65 | 2 0434 0.78 | 17 0443 0.65 | 2 0434 0.78 | 17 0443 0.65 | 2 0434 0.78 | 17 0443 0.65 |
| 1013 1.71 | | 1031 1.92 | 17 0950 1.61 | 1137 1.93 | 17 1102 1.94 | 1148 1.87 | 17 1146 2.00 | 1148 1.87 | 17 1146 2.00 | 1148 1.87 | 17 1146 2.00 | 1148 1.87 | 17 1146 2.00 | 1148 1.87 | 17 1146 2.00 |
| MO 1603 0.48 | TU 1538 0.64 | WE 1647 0.64 | TH 1602 0.67 | SA 1840 0.79 | SU 1747 0.69 | MO 1853 0.78 | TU 1832 0.62 |
| 2229 1.91 | 2159 1.58 | 2239 1.55 | 2159 1.41 | 2352 1.23 | 2327 1.23 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 |
| 3 0443 0.46 | 18 0402 0.56 | 3 0430 0.54 | 18 0342 0.51 | 3 0511 0.79 | 18 0444 0.67 | 3 0020 1.23 | 18 0033 1.30 | 3 0535 0.87 | 18 0546 0.75 | 3 0535 0.87 | 18 0546 0.75 | 3 0535 0.87 | 18 0546 0.75 | 3 0535 0.87 | 18 0546 0.75 |
| 1105 1.72 | | 1027 1.62 | | 1235 1.82 | | 1243 1.76 | | 1243 1.76 | | 1243 1.76 | | 1243 1.76 | | 1243 1.76 | |
| TU 1703 0.64 | WE 1618 0.74 | TH 1800 0.77 | FR 1652 0.75 | SU 1949 0.81 | MO 1854 0.70 | 1952 0.78 | 1932 0.62 | 1952 0.78 | 1932 0.62 | 1952 0.78 | 1932 0.62 | 1952 0.78 | 1932 0.62 | 1952 0.78 | 1932 0.62 |
| 2317 1.72 | 2232 1.48 | 2329 1.39 | 2241 1.31 | 2332 1.22 | | | | | | | | | | | |
| 4 0529 0.56 | 19 0430 0.61 | 4 0515 0.67 | 19 0417 0.60 | 4 0117 1.19 | 19 0047 1.20 | 4 0149 1.24 | 19 0151 1.34 | 4 0650 0.94 | 19 0659 0.82 | 4 0650 0.94 | 19 0659 0.82 | 4 0650 0.94 | 19 0659 0.82 | 4 0650 0.94 | 19 0659 0.82 |
| 1202 1.70 | | 1107 1.60 | | 0625 0.89 | 0551 0.76 | 1347 1.67 | 1347 1.82 | 1347 1.67 | 1347 1.82 | 1347 1.67 | 1347 1.82 | 1347 1.67 | 1347 1.82 | 1347 1.67 | 1347 1.82 |
| WE 1817 0.80 | TH 1705 0.83 | 2309 1.37 | 2309 1.22 | 2101 0.78 | 2008 0.66 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 | 2054 0.73 | 2034 0.59 |
| 5 0009 1.53 | 20 0503 0.66 | 5 0032 1.26 | 20 0501 0.68 | 5 0255 1.22 | 20 0215 1.25 | 5 0312 1.31 | 20 0309 1.45 | 5 0808 0.95 | 20 0824 0.84 | 5 0808 0.95 | 20 0824 0.84 | 5 0808 0.95 | 20 0824 0.84 | 5 0808 0.95 | 20 0824 0.84 |
| 0619 0.67 | | 1154 1.58 | | 0747 0.93 | 0714 0.79 | 1449 1.61 | 1451 1.74 | 1449 1.61 | 1451 1.74 | 1449 1.61 | 1451 1.74 | 1449 1.61 | 1451 1.74 | 1449 1.61 | 1451 1.74 |
| TH 1313 1.69 | FR 1806 0.90 | 2352 1.27 | 2352 1.27 | 2201 0.72 | 2114 0.58 | 2147 0.66 | 2131 0.54 | 2147 0.66 | 2131 0.54 | 2147 0.66 | 2131 0.54 | 2147 0.66 | 2131 0.54 | 2147 0.66 | 2131 0.54 |
| 0 2120 0.91 | | | | | | | | | | | | | | | |
| 6 0112 1.37 | 21 0544 0.71 | 6 0204 1.19 | 21 0050 1.16 | 6 0409 1.29 | 21 0331 1.36 | 6 0415 1.41 | 21 0416 1.60 | 6 0927 0.92 | 21 0949 0.82 | 6 0927 0.92 | 21 0949 0.82 | 6 0927 0.92 | 21 0949 0.82 | 6 0927 0.92 | 21 0949 0.82 |
| 0718 0.75 | | 1254 1.57 | | 0912 0.91 | 0846 0.76 | 1545 1.57 | 1552 1.67 | 1545 1.57 | 1552 1.67 | 1545 1.57 | 1552 1.67 | 1545 1.57 | 1552 1.67 | 1545 1.57 | 1552 1.67 |
| FR 1434 1.70 | SA 1936 0.93 | 2203 0.80 | 2048 0.75 | 1551 1.65 | 1521 1.81 | 2228 0.58 | 2220 0.49 | 2228 0.58 | 2220 0.49 | 2228 0.58 | 2220 0.49 | 2228 0.58 | 2220 0.49 | 2228 0.58 | 2220 0.49 |
| 0 2120 0.91 | | | | 2246 0.63 | 2209 0.48 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 |
| 7 0236 1.26 | 22 0644 0.75 | 7 0343 1.21 | 22 0232 1.17 | 7 0458 1.39 | 22 0432 1.52 | 7 0502 1.53 | 22 0510 1.76 | 7 1033 0.86 | 22 1058 0.77 | 7 1033 0.86 | 22 1058 0.77 | 7 1033 0.86 | 22 1058 0.77 | 7 1033 0.86 | 22 1058 0.77 |
| 0829 0.80 | | 0852 0.88 | | 1021 0.84 | | 1632 1.53 | | 1632 1.53 | | 1632 1.53 | | 1632 1.53 | | 1632 1.53 | |
| SA 1550 1.73 | SU 1413 1.59 | MO 1557 1.72 | TU 1448 1.75 | 1641 1.65 | FR 1620 1.81 | 1714 1.51 | MO 1741 1.53 |
| 2247 0.86 | 0 2129 0.87 | 2256 0.73 | 2156 0.63 | 2320 0.55 | 2254 0.38 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 | 2329 0.41 | 2303 0.44 |
| 8 0409 1.23 | 23 0241 1.15 | 8 0453 1.27 | 23 0350 1.27 | 8 1110 0.75 | 23 1106 0.59 | 8 1123 0.78 | 23 1158 0.71 | 8 1714 1.51 | 23 1741 1.55 | 8 1714 1.51 | 23 1741 1.55 | 8 1714 1.51 | 23 1741 1.55 | 8 1714 1.51 | 23 1741 1.55 |
| 0944 0.81 | | 1009 0.84 | | 1722 1.64 | | 2329 0.41 | | 2329 0.41 | | 2329 0.41 | | 2329 0.41 | | 2329 0.41 | |
| SU 1651 1.77 | MO 1528 1.67 | 1651 1.73 | WE 1554 1.82 | 1722 1.64 | SA 1712 1.80 | 2329 0.41 | 2343 0.40 | 2329 0.41 | 2343 0.40 | 2329 0.41 | 2343 0.40 | 2329 0.41 | 2343 0.40 | 2329 0.41 | 2343 0.40 |
| 2343 0.78 | 2236 0.74 | 2335 0.65 | 2247 0.49 | 2348 0.46 | 2332 0.31 | | | | | | | | | | |
| 9 0522 1.26 | 24 0405 1.20 | 9 0538 1.35 | 24 0452 1.41 | 9 1150 0.66 | 24 1159 0.51 | 9 1207 0.72 | 24 1250 0.66 | 9 1753 1.48 | 24 1831 1.51 | 9 1753 1.48 | 24 1831 1.51 | 9 1753 1.48 | 24 1831 1.51 | 9 1753 1.48 | 24 1831 1.51 |
| 1047 0.77 | | 1105 0.77 | | 1150 0.66 | | 1207 0.72 | | 1207 0.72 | | 1207 0.72 | | 1207 0.72 | | 1207 0.72 | |
| MO 1741 1.80 | TU 1630 1.79 | 1734 1.74 | 1650 1.90 | 1758 1.63 | 1759 1.76 | 1753 1.48 | | 1753 1.48 | | 1753 1.48 | | 1753 1.48 | | 1753 1.48 | |
| 2325 0.58 | | 2330 0.36 | | 1758 1.63 | | 1830 1.46 | | 1830 1.46 | | 1830 1.46 | | 1830 1.46 | | 1830 1.46 | |
| 10 0020 0.71 | 25 0512 1.30 | 10 0007 0.57 | 25 0542 1.57 | 10 0642 1.71 | 25 0650 2.01 | 10 0645 1.89 | 25 0721 2.15 | 10 1249 0.66 | WE 1340 0.62 | 10 1909 1.45 | 2005 1.46 | 10 0000 0.35 | 25 0023 0.38 | 10 0645 1.89 | 25 0721 2.15 |
| 0610 1.31 | | 1053 0.56 | | 1226 0.59 | | 1249 0.48 | | 1249 0.66 | | 1249 0.66 | | 1249 0.66 | | 1249 0.66 | |
| TU 1136 0.71 | WE 1723 1.91 | 1146 0.67 | FR 1739 1.95 | 1304 0.55 | TU 1339 0.47 | 1331 0.61 | TH 1429 0.60 |
| 1820 1.83 | | 1811 1.75 | | 1304 0.55 | | 1303 1.58 | | 1303 1.63 | | 1303 1.63 | | 1303 1.63 | | 1303 1.63 | |
| 11 0050 0.64 | 26 0603 1.43 | 1035 0.49 | 26 0625 1.73 | 0711 1.81 | 26 0731 2.13 | 0718 2.00 | 26 0802 2.21 | 1331 0.61 | TH 1429 0.60 | 1909 1.45 | 2005 1.46 | 0031 0.30 | 26 0103 0.39 | 0645 1.89 | 26 0721 2.15 |
| 0647 1.37 | | 1145 1.52 | | 0711 1.81 | | 1714 1.51 | | 1714 1.51 | | 1714 1.51 | | 1714 1.51 | | 1714 1.51 | |
| WE 1216 0.64 | TH 1146 0.43 | 1220 0.59 | SA 1212 0.37 | 1304 0.55 | TU 1339 0.47 | 1331 0.61 | TH 1429 0.60 |
| 1855 1.85 | 1810 2.02 | 1843 1.74 | 1824 1.95 | 1304 0.55 | | 1303 1.58 | | 1303 1.63 | | 1303 1.63 | | 1303 1.63 | | 1303 1.63 | |
| 12 0120 0.57 | 27 0647 1.56 | 0100 0.43 | 27 0706 1.88 | 0742 1.91 | 27 0813 2.20 | 0753 2.10 | 27 0843 2.21 | 1415 0.57 | FR 1517 0.61 | 1951 1.44 | 2048 1.42 | 0105 0.29 | 27 0142 0.44 | 0120 0.57 | 27 0843 2.21 |
| 0719 1.43 | | 1252 0.52 | | 1252 0.52 | | 1342 0.53 | | 1342 0.57 | | 1342 0.57 | | 1342 0.57 | | 1342 0.57 | |
| TH 1250 0.57 | FR 1231 0.32 | 1914 1.73 | 1908 1.91 | 1903 1.58 | WE 1431 0.51 | 1909 1.45 | TH 1517 0.61 |
| 1929 1.85 | 1854 2.08 | | | 1903 1.58 | WE 1925 1.82 | | | | | | | | | | |
| 13 0149 0.52 | 28 0728 1.69 | 0124 0.39 | 28 0748 2.00 | 0815 1.98 | 28 0856 2.21 | 0832 2.16 | 28 0923 2.16 | 1502 0.54 | SA 1602 0.65 | 2036 1.43 | 2127 1.39 | 0141 0.30 | 28 0220 0.51 | 0914 2.18 | 28 0923 2.16 |
| 0750 1.49 | | 1326 0.49 | | 1326 0.49 | | 1423 0.53 | | 1423 0.53 | | 1423 0.53 | | | | | |

AUSTRALIA, EAST COAST – URANGAN

2019

LAT 25° 18' S LONG 152° 55' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | | | | | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|------|
| 1 | 0530 | 3.25 | 16 | 0426 | 3.04 | 1 | 0006 | 1.05 | 16 | 0604 | 3.59 | 1 | 0539 | 3.21 | | | | | |
| 1141 | 1.25 | | WE | 1028 | 1.48 | 0650 | 3.48 | | 1226 | 1.15 | | 1209 | 1.37 | | | | | | |
| TU | 1723 | 3.14 | WE | 1619 | 2.96 | 1315 | 1.18 | SA | 1811 | 3.04 | FR | 1745 | 2.81 | SA | | | | | |
| 2344 | 0.90 | | | 2301 | 1.04 | 1851 | 3.00 | | | | 1835 | 1.25 | 1654 | 2.82 | | | | | |
| | | | | | | | | | | | | 2343 | 1.11 | 2311 | 1.11 | | | | |
| 2 | 0623 | 3.43 | 17 | 0529 | 3.30 | 2 | 0051 | 0.95 | 17 | 0029 | 0.78 | 2 | 0627 | 3.37 | 17 | 0543 | 3.60 | | |
| 1237 | 1.17 | | TH | 1136 | 1.32 | 0730 | 3.60 | SA | 0658 | 3.88 | 1254 | 1.21 | 1214 | 1.08 | 1214 | 1.08 | | | |
| WE | 1817 | 3.13 | | 1722 | 3.02 | 1358 | 1.08 | SU | 1325 | 0.91 | 1835 | 2.95 | SU | 1805 | 3.06 | 1805 | 3.06 | | |
| 2355 | 0.86 | | | 1935 | 3.07 | 1911 | 3.23 | | | | | | | | | | | | |
| 3 | 0030 | 0.83 | 18 | 0625 | 3.59 | 3 | 0131 | 0.87 | 18 | 0125 | 0.57 | 3 | 0031 | 1.12 | 18 | 0015 | 0.86 | | |
| 0707 | 3.58 | | 1238 | 1.13 | 0806 | 3.67 | 0747 | 4.13 | SU | 0638 | 3.88 | 0706 | 3.51 | 0638 | 3.88 | 0638 | 3.88 | | |
| TH | 1327 | 1.09 | FR | 1822 | 3.11 | 1436 | 1.01 | MO | 1418 | 0.70 | 1333 | 1.08 | MO | 1309 | 0.82 | 1309 | 0.82 | | |
| 1905 | 3.12 | | | 2013 | 3.13 | 2004 | 3.42 | | | | 1916 | 3.09 | 1902 | 3.32 | 1902 | 3.32 | | | |
| 4 | 0111 | 0.77 | 19 | 0047 | 0.68 | 4 | 0208 | 0.80 | 19 | 0215 | 0.40 | 4 | 0111 | 0.99 | 19 | 0111 | 0.63 | | |
| 0747 | 3.67 | | 0715 | 3.87 | 0838 | 3.71 | 0833 | 4.28 | MO | 1507 | 0.55 | 1409 | 0.99 | TU | 1358 | 0.62 | 1358 | 0.62 | |
| FR | 1413 | 1.03 | SA | 1336 | 0.94 | 1512 | 0.98 | TU | 1507 | 0.55 | 1951 | 3.21 | 1951 | 3.55 | 1951 | 3.55 | | | |
| 1949 | 3.12 | | 1920 | 3.22 | 2046 | 3.18 | 2053 | 3.56 | | | | | | | | | | | |
| 5 | 0149 | 0.73 | 20 | 0138 | 0.52 | 5 | 0242 | 0.76 | 20 | 0304 | 0.32 | 5 | 0149 | 0.89 | 20 | 0201 | 0.47 | | |
| 0823 | 3.71 | | 0803 | 4.09 | 0909 | 3.71 | 0917 | 4.32 | TU | 1552 | 0.48 | 0813 | 3.66 | 0812 | 4.20 | 0812 | 4.20 | | |
| SA | 1455 | 1.00 | SU | 1432 | 0.78 | 1545 | 0.96 | WE | 1522 | 0.48 | 1442 | 0.92 | WE | 1442 | 0.48 | 1442 | 0.48 | | |
| 2028 | 3.12 | | 2013 | 3.32 | 2118 | 3.21 | 2140 | 3.64 | | | | 2024 | 3.30 | 2037 | 3.72 | 2037 | 3.72 | | |
| 6 | 0224 | 0.71 | 21 | 0227 | 0.39 | 6 | 0314 | 0.74 | 21 | 0350 | 0.34 | 6 | 0222 | 0.81 | 21 | 0249 | 0.39 | | |
| 0857 | 3.71 | | 0849 | 4.23 | 0937 | 3.68 | 1000 | 4.24 | WE | 1616 | 0.49 | 0842 | 3.69 | 0854 | 4.20 | 0854 | 4.20 | | |
| SU | 1534 | 1.00 | MO | 1524 | 0.65 | 1616 | 0.97 | TH | 1635 | 0.49 | 1513 | 0.88 | TH | 1524 | 0.43 | 1524 | 0.43 | | |
| ● | 2104 | 3.10 | ○ | 2105 | 3.40 | 2149 | 3.22 | 2225 | 3.64 | | 2055 | 3.37 | ○ | 2121 | 3.80 | 2121 | 3.80 | | |
| 7 | 0258 | 0.72 | 22 | 0315 | 0.34 | 7 | 0345 | 0.77 | 22 | 0434 | 0.47 | 7 | 0255 | 0.77 | 22 | 0334 | 0.43 | | |
| 0929 | 3.68 | | 0936 | 4.28 | 1004 | 3.62 | 1043 | 4.04 | TH | 1644 | 0.59 | 0910 | 3.67 | 0936 | 4.07 | 0936 | 4.07 | | |
| MO | 1611 | 1.02 | TU | 1614 | 0.59 | 1644 | 1.00 | FR | 1714 | 0.59 | 1542 | 0.87 | FR | 1602 | 0.46 | 1602 | 0.46 | | |
| 2138 | 3.07 | | 2154 | 3.43 | 2220 | 3.21 | 2310 | 3.56 | | ● | 2126 | 3.41 | 2203 | 3.80 | 2203 | 3.80 | | | |
| 8 | 0330 | 0.75 | 23 | 0402 | 0.37 | 8 | 0416 | 0.84 | 23 | 0517 | 0.71 | 8 | 0328 | 0.77 | 23 | 0418 | 0.57 | | |
| 1000 | 3.61 | | 1022 | 4.22 | 1032 | 3.53 | 1126 | 3.76 | FR | 1713 | 0.75 | 0936 | 3.63 | 1015 | 3.85 | 1015 | 3.85 | | |
| TU | 1646 | 1.06 | WE | 1701 | 0.59 | 1713 | 1.05 | SA | 1751 | 0.75 | 1609 | 0.88 | SA | 1636 | 0.58 | 1636 | 0.58 | | |
| 2210 | 3.03 | | 2244 | 3.41 | 2254 | 3.17 | 2357 | 3.42 | | 2157 | 3.43 | 2244 | 3.70 | 2244 | 3.70 | 2244 | 3.70 | | |
| 9 | 0402 | 0.82 | 24 | 0448 | 0.50 | 9 | 0449 | 0.96 | 24 | 0605 | 1.01 | 9 | 0359 | 0.83 | 24 | 0501 | 0.80 | | |
| 1030 | 3.52 | | 1108 | 4.07 | 1101 | 3.41 | 1212 | 3.43 | SA | 1743 | 1.12 | 1637 | 0.92 | SU | 1709 | 0.75 | 1637 | 0.75 | |
| WE | 1719 | 1.12 | TH | 1746 | 0.67 | 1743 | 3.11 | SU | 1831 | 0.95 | 2332 | 3.40 | 2327 | 3.54 | 2327 | 3.54 | 2327 | 3.54 | |
| 2243 | 2.98 | | 2333 | 3.33 | | | | | | | | | | | | | | | |
| 10 | 0434 | 0.93 | 25 | 0534 | 0.71 | 10 | 0525 | 1.13 | 25 | 0049 | 3.25 | 10 | 0432 | 0.94 | 25 | 0546 | 1.08 | | |
| 1101 | 3.42 | | 1156 | 3.84 | 1134 | 3.27 | 0701 | 1.32 | MO | 1304 | 3.10 | 1030 | 3.41 | 1136 | 3.22 | 1136 | 3.22 | | |
| TH | 1752 | 1.19 | FR | 1831 | 0.79 | 1817 | 1.20 | MO | 1917 | 1.15 | 1704 | 0.99 | MO | 1743 | 0.97 | 1742 | 1.15 | | |
| 2320 | 2.92 | | | | | | | | | | 2306 | 3.34 | | | | 1258 | 2.57 | | |
| 11 | 0509 | 1.07 | 26 | 0025 | 3.22 | 11 | 0016 | 3.03 | 26 | 0151 | 3.09 | 11 | 0508 | 1.09 | 26 | 0014 | 3.34 | | |
| 1136 | 3.30 | | 0626 | 0.99 | 0609 | 1.32 | 0818 | 1.57 | MO | 1216 | 3.10 | 1101 | 3.25 | 0640 | 1.36 | 0642 | 1.36 | | |
| FR | 1828 | 1.25 | SA | 1247 | 3.57 | 1902 | 1.28 | ● | 2017 | 1.32 | 1734 | 1.09 | TU | 1226 | 2.90 | 1219 | 2.75 | | |
| | | | 1916 | 0.94 | | | | | | 2348 | 3.25 | 1824 | 1.20 | | 1838 | 1.31 | 1947 | 1.61 | |
| 12 | 0002 | 2.85 | 27 | 0123 | 3.11 | 12 | 0113 | 2.96 | 27 | 0311 | 3.01 | 12 | 0549 | 1.27 | 27 | 0113 | 3.14 | | |
| 0550 | 1.24 | | 0728 | 1.27 | 0707 | 1.50 | 0952 | 1.63 | TU | 1313 | 2.94 | WE | 1525 | 2.69 | 1140 | 3.06 | 1049 | 1.50 | |
| SA | 1217 | 3.18 | SU | 1343 | 3.30 | 1313 | 2.00 | 2132 | 1.40 | 2002 | 1.33 | | 1812 | 1.21 | WE | 1333 | 2.65 | 1346 | 2.62 |
| 1912 | 1.31 | | 2008 | 1.07 | | | | | | | | | | | ● | 2138 | 1.34 | 2121 | 1.63 |
| 13 | 0056 | 2.79 | 28 | 0231 | 3.02 | 13 | 0224 | 2.96 | 28 | 0434 | 3.06 | 13 | 0040 | 3.15 | 28 | 0229 | 3.01 | | |
| 0641 | 1.42 | | 0848 | 1.47 | 0830 | 1.60 | 1110 | 1.53 | WE | 1429 | 2.82 | TH | 1641 | 2.70 | 0645 | 1.45 | 0922 | 1.64 | |
| SU | 1309 | 3.05 | MO | 1445 | 3.07 | 1429 | 2.82 | TH | 1641 | 2.70 | 1234 | 2.85 | TH | 1458 | 2.54 | 1234 | 2.54 | 1234 | 2.54 |
| 2005 | 1.33 | ● | 2107 | 1.16 | 2114 | 1.30 | 2244 | 1.36 | | | 1909 | 1.33 | ● | 2046 | 1.56 | 2138 | 1.34 | 2233 | 1.53 |
| 14 | 0202 | 2.78 | 29 | 0349 | 3.03 | 14 | 0343 | 3.07 | 29 | 0434 | 3.06 | 14 | 0150 | 3.10 | 29 | 0353 | 3.00 | | |
| 0751 | 1.56 | | 1014 | 1.52 | 0957 | 1.55 | 1059 | 1.55 | TH | 1545 | 2.80 | TH | 1356 | 2.70 | 0806 | 1.57 | 1039 | 1.54 | |
| MO | 1411 | 2.97 | TU | 1552 | 2.93 | 1545 | 2.80 | 2224 | 1.19 | | 2034 | 1.39 | FR | 1617 | 2.59 | 1356 | 2.62 | 1648 | 2.86 |
| ● | 2104 | 1.29 | 2213 | 1.18 | | | | | | ● | 2034 | 1.39 | 2210 | 1.54 | | | | 1734 | 2.90 |
| 15 | 0315 | 2.86 | 30 | 0505 | 3.15 | 15 | 0500 | 3.29 | 30 | 0502 | 3.11 | 15 | 0312 | 3.15 | 30 | 1137 | 1.38 | | |
| 0914 | 1.58 | | 1127 | 1.44 | 1117 | 1.39 | 1137 | 1.39 | FR | 1701 | 2.88 | FR | 1527 | 2.68 | 0938 | 1.53 | 1722 | 2.75 | |
| TU | 1516 | 2.94 | WE | 1700 | 2.89 | 2329 | 1.00 | | 2329 | 1.00 | | 2157 | 1.30 | 2314 | 1.41 | 2157 | 1.41 | 2256 | 1.15 |
| 2203 | 1.19 | | 2313 | 1.13 | | | | | | | | | | | | | | 2327 | 1.38 |
| 31 | 0604 | 3.32 | | | | | | | | | | | | | 31 | 0553 | 3.25 | | |
| 1226 | 1.31 | | | | | | | | | | | | | | 31 | 1221 | 1.22 | | |
| TH | 1800 | 2.92 | | | | | | | | | | | | | 31 | 1810 | 2.94 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – URANGAN

2019

LAT 25° 18' S LONG 152° 55' E

Times and Heights of High and Low Waters

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – URANGAN

2019

LAT 25° 18' S LONG 152° 55' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|----|--------------|---|---------------------|--------------|--------------|---|---------------------|----|--------------|---|---------------------|--------------|-----------|---|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0408 0.34 | 16 | 0352 0.75 | | 1 0413 0.38 | 16 | 0344 0.70 | | 1 0447 0.81 | 16 | 0423 0.83 | | 1 0457 1.02 | 16 | 0459 0.83 | |
| 0959 3.58 | | 0941 3.32 | | 1023 3.69 | | 0951 3.49 | | 1129 3.42 | | 1056 3.52 | | 1148 3.31 | 16 | 1139 3.68 | |
| SU 1611 0.33 | | MO 1545 0.78 | | TU 1642 0.62 | | WE 1603 0.92 | | FR 1815 1.19 | | SA 1727 1.13 | | SU 1846 1.27 | MO 1820 1.02 | | |
| 2219 4.05 | | 2147 3.43 | | 2234 3.55 | | 2147 3.20 | | 2339 2.75 | | 2250 2.83 | | 2351 2.87 | | | |
| 2 0449 0.41 | 17 | 0418 0.80 | | 2 0448 0.55 | 17 | 0411 0.79 | | 2 0525 1.06 | 17 | 0502 0.98 | | 2 0007 2.63 | 17 | 0551 0.99 | |
| 1047 3.53 | | 1013 3.28 | | 1108 3.54 | | 1026 3.41 | | 1224 3.20 | | 1148 3.41 | | 0539 1.24 | 17 | 1234 3.58 | |
| MO 1657 0.53 | | TU 1618 0.89 | | WE 1731 0.89 | | TH 1641 1.05 | | SA 1917 1.35 | | SU 1824 1.22 | | MO 1242 3.14 | TU 1913 1.05 | | |
| 2301 3.78 | | 2213 3.29 | | 2317 3.21 | | 2218 3.04 | | 2346 2.68 | | 1938 1.35 | | | | | |
| 3 0527 0.56 | 18 | 0444 0.89 | | 3 0524 0.78 | 18 | 0441 0.92 | | 3 0041 2.53 | 18 | 0553 1.15 | | 3 0109 2.54 | 18 | 0055 2.81 | |
| 1135 3.41 | | 1048 3.21 | | 1159 3.34 | | 1106 3.30 | | 0614 1.32 | | 1251 3.33 | | 0633 1.44 | 18 | 0654 1.15 | |
| TU 1746 0.81 | | WE 1652 1.04 | | TH 1827 1.18 | | FR 1724 1.20 | | SU 1332 3.04 | | MO 1928 1.25 | | TU 1344 3.03 | WE 1335 3.50 | | |
| 2346 3.44 | | 2242 3.12 | | 2255 2.85 | | 2024 1.43 | | 2034 1.37 | | | | 2034 1.37 | 2011 1.05 | | |
| 4 0607 0.75 | 19 | 0513 1.00 | | 4 0006 2.87 | 19 | 0515 1.08 | | 4 0201 2.43 | 19 | 0102 2.59 | | 4 0220 2.53 | 19 | 0208 2.83 | |
| 1228 3.25 | | 1128 3.11 | | 0605 1.04 | | 1157 3.19 | | 0732 1.52 | | 0709 1.29 | | 0754 1.58 | 0813 1.26 | | |
| WE 1840 1.12 | | TH 1732 1.22 | | FR 1259 3.14 | | SA 1818 1.34 | | MO 1446 2.97 | | TU 1401 3.32 | | WE 1448 2.98 | TH 1436 3.44 | | |
| 2315 2.93 | | 2315 2.93 | | 1938 1.40 | | 2343 2.65 | | 2133 1.41 | | 2037 1.21 | | 2132 1.33 | 2112 1.01 | | |
| 5 0038 3.08 | 20 | 0546 1.14 | | 5 0112 2.58 | 20 | 0604 1.25 | | 5 0322 2.48 | 20 | 0232 2.63 | | 5 0332 2.61 | 20 | 0325 2.93 | |
| 0654 0.97 | | 1218 3.01 | | 0702 1.29 | | 1305 3.11 | | 0911 1.55 | | 0841 1.30 | | 0921 1.59 | 20 | 0934 1.26 | |
| TH 1332 3.10 | | FR 1823 1.40 | | SA 1415 3.00 | | SU 1932 1.42 | | TU 1554 3.00 | | WE 1509 3.38 | | 1547 2.99 | FR 1539 3.39 | | |
| 1953 1.38 | | 2102 1.49 | | 2102 1.49 | | 2234 1.30 | | 2147 1.09 | | 2225 1.24 | | 2225 1.24 | 2213 0.93 | | |
| 6 0142 2.78 | 21 | 0000 2.72 | | 6 0239 2.45 | 21 | 0102 2.49 | | 6 0431 2.64 | 21 | 0355 2.81 | | 6 0435 2.78 | 21 | 0439 3.12 | |
| 0754 1.15 | | 0637 1.28 | | 0832 1.43 | | 0729 1.37 | | 1022 1.45 | | 1002 1.18 | | 1028 1.51 | 21 | 1049 1.19 | |
| FR 1446 3.02 | | SA 1328 2.95 | | SU 1534 2.99 | | MO 1424 3.13 | | 1649 3.09 | | 1613 3.48 | | 1639 3.02 | SA 1641 3.36 | | |
| 02125 1.49 | | 1938 1.52 | | 2222 1.41 | | 2056 1.38 | | 2322 1.15 | | 2251 0.90 | | 2313 1.11 | 2312 0.81 | | |
| 7 0300 2.60 | 22 | 0116 2.53 | | 7 0402 2.50 | 22 | 0246 2.50 | | 7 0524 2.85 | 22 | 0505 3.08 | | 7 0527 2.99 | 22 | 0543 3.37 | |
| 0911 1.25 | | 0804 1.36 | | 0958 1.41 | | 0907 1.32 | | 1115 1.30 | | 1109 1.00 | | 1121 1.38 | 22 | 1153 1.08 | |
| SA 1607 3.04 | | SU 1448 3.00 | | MO 1643 3.08 | | TU 1539 3.26 | | 1735 3.19 | | 1713 3.57 | | 1724 3.07 | SU 1739 3.33 | | |
| 2250 1.41 | | 2110 1.50 | | 2323 1.25 | | 2216 1.21 | | 2346 0.71 | | 2354 0.98 | | | | | |
| 8 0422 2.59 | 23 | 0258 2.49 | | 8 0509 2.68 | 23 | 0417 2.69 | | 8 0003 1.00 | 23 | 0602 3.37 | | 8 0610 3.21 | 23 | 0004 0.71 | |
| 1025 1.22 | | 0932 1.27 | | 1101 1.27 | | 1025 1.12 | | 0606 3.06 | | 1208 0.85 | | 1207 1.26 | 23 | 0636 3.59 | |
| SU 1716 3.17 | | MO 1606 3.17 | | TU 1736 3.21 | | WE 1646 3.47 | | 1159 1.16 | | SA 1806 3.63 | | 1805 3.11 | MO 1252 0.98 | | |
| 2353 1.24 | | 2236 1.33 | | 2323 0.96 | | 2323 0.96 | | 1814 3.26 | | 1855 3.63 | | 1834 3.30 | | | |
| 9 0529 2.72 | 24 | 0427 2.63 | | 9 0009 1.09 | 24 | 0526 2.99 | | 9 0039 0.87 | 24 | 0034 0.55 | | 9 0032 0.85 | 24 | 0051 0.63 | |
| 1124 1.11 | | 1044 1.07 | | 0558 2.89 | | 1129 0.88 | | 0643 3.26 | | 0651 3.63 | | 0649 3.42 | 24 | 0723 3.76 | |
| MO 1808 3.32 | | TU 1714 3.43 | | WE 1149 1.12 | | TH 1744 3.68 | | 1240 1.05 | | SU 1302 0.74 | | 1251 1.14 | TU 1345 0.92 | | |
| 2347 1.06 | | 1818 3.33 | | 1818 3.33 | | 1850 3.31 | | 1855 3.63 | | 1844 3.14 | | 1924 3.27 | | | |
| 10 0040 1.07 | 25 | 0538 2.89 | | 10 0046 0.94 | 25 | 0017 0.70 | | 10 0112 0.76 | 25 | 0118 0.44 | | 10 0108 0.74 | 25 | 0134 0.58 | |
| 0620 2.88 | | 1146 0.81 | | 0637 3.07 | | 0620 3.31 | | 0717 3.42 | | 0736 3.81 | | 0726 3.60 | 25 | 0806 3.86 | |
| TU 1214 0.98 | | WE 1811 3.71 | | 1231 0.99 | | 1225 0.66 | | 1318 0.96 | | 1353 0.69 | | 1334 1.05 | WE 1436 0.88 | | |
| 1850 3.45 | | 1854 3.43 | | 1854 3.43 | | 1834 3.85 | | 1922 3.33 | | 1942 3.57 | | 1921 3.15 | 2011 3.22 | | |
| 11 0120 0.94 | 26 | 0043 0.78 | | 11 0120 0.83 | 26 | 0104 0.49 | | 11 0144 0.67 | 26 | 0158 0.40 | | 11 0144 0.65 | 26 | 0214 0.57 | |
| 0701 3.03 | | 0634 3.18 | | 0711 3.23 | | 0707 3.57 | | 0750 3.55 | | 0818 3.90 | | 0803 3.73 | 26 | 0846 3.87 | |
| WE 1255 0.87 | | TH 1241 0.57 | | 1308 0.88 | | SA 1317 0.52 | | 1356 0.90 | | TU 1443 0.71 | | 1417 0.98 | TH 1524 0.89 | | |
| 1926 3.54 | | 1900 3.95 | | 1927 3.48 | | 1921 3.92 | | 1953 3.32 | | 2025 3.45 | | 2000 3.16 | ● 2054 3.17 | | |
| 12 0154 0.84 | 27 | 0131 0.54 | | 12 0151 0.74 | 27 | 0147 0.35 | | 12 0215 0.62 | 27 | 0235 0.42 | | 12 0220 0.59 | 27 | 0251 0.60 | |
| 0737 3.15 | | 0723 3.44 | | 0744 3.35 | | 0752 3.77 | | 0824 3.64 | | 0900 3.91 | | 0841 3.82 | 27 | 0924 3.82 | |
| TH 1332 0.78 | | FR 1333 0.39 | | 1344 0.81 | | 1406 0.46 | | 1434 0.88 | | 1533 0.77 | | 1502 0.94 | FR 1609 0.92 | | |
| 1959 3.59 | | 1946 4.10 | | 1958 3.50 | | 2005 3.89 | | 2024 3.28 | | 2108 3.31 | | 2040 3.14 | 2136 3.10 | | |
| 13 0227 0.78 | 28 | 0215 0.37 | | 13 0221 0.68 | 28 | 0227 0.29 | | 13 0246 0.60 | 28 | 0310 0.50 | | 13 0257 0.58 | 28 | 0327 0.68 | |
| 0810 3.23 | | 0810 3.63 | | 0815 3.44 | | 0835 3.87 | | 0858 3.69 | | 0940 3.83 | | 0921 3.85 | 28 | 1002 3.72 | |
| FR 1408 0.73 | | SA 1422 0.29 | | 1419 0.78 | | MO 1455 0.48 | | 1514 0.90 | | TH 1621 0.88 | | 1550 0.93 | SA 1650 0.99 | | |
| 2029 3.61 | | 2029 4.14 | | 2026 3.48 | ● | 2047 3.77 | | 2056 3.21 | | 2150 3.13 | | 2121 3.10 | 2214 3.02 | | |
| 14 0257 0.75 | 29 | 0258 0.28 | | 14 0249 0.65 | 29 | 0304 0.31 | | 14 0317 0.63 | 29 | 0345 0.63 | | 14 0336 0.62 | 29 | 0402 0.79 | |
| 0841 3.29 | | 0854 3.75 | | 0846 3.50 | | 0917 3.88 | | 0933 3.68 | | 1021 3.68 | | 1003 3.84 | 29 | 1038 3.59 | |
| SA 1441 0.70 | | SU 1509 0.30 | | MO 1453 0.78 | | TU 1543 0.59 | | 1554 0.95 | | 1709 1.01 | | 1638 0.94 | SU 1729 1.08 | | |
| ● 2057 3.58 | | ● 2112 4.05 | | ● 2053 3.42 | | 2128 3.57 | | 2130 3.11 | | 2232 2.95 | | 2206 3.04 | 2253 2.92 | | |
| 15 0325 0.74 | 30 | 0337 0.28 | | 15 0317 0.65 | 30 | 0338 0.41 | | 15 0349 0.71 | 30 | 0421 0.81 | | 15 0416 0.70 | 30 | 0436 0.93 | |
| 0910 3.32 | | 0938 3.77 | | 0918 3.52 | | 0959 3.79 | | 1012 3.61 | | 1103 3.50 | | 1049 3.77 | 30 | 1115 3.44 | |
| SU 1513 0.72 | | MO 1556 0.41 | | TU 1528 0.83 | | WE 1630 0.77 | | 1638 1.03 | | SA 1757 1.15 | | 1728 0.98 | MO 1808 1.17 | | |
| 2123 3.52 | | 2153 3.85 | | 2119 3.33 | | 2209 3.31 | | 2207 2.98 | | 2317 2.78 | | 2255 2.95 | 2332 2.83 | | |
| | | | | 31 | 0412 0.58 | | | | | | | 31 | 0512 1.09 | | |
| | | | | | 1042 3.63 | | | | | | | | 1153 3.29 | | |
| | | | | | TH 1720 0.98 | | | | | | | | TU 1848 1.26 | | |
| | | | | | 2251 3.02 | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – BUNDABERG (BURNETT HEADS)

2019

LAT 24° 46' S LONG 152° 23' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0521 | 2.71 | 16 0421 | 2.56 | 1 0007 | 0.96 | 16 0553 | 3.05 |
| 1130 | 1.12 | 1029 | 1.30 | 0649 | 2.93 | 1217 | 0.99 |
| TU 1711 | 2.58 | WE 1621 | 2.45 | FR 1310 | 1.06 | SA 1811 | 2.55 |
| 2336 | 0.81 | 2254 | 0.91 | 1849 | 2.46 | 2349 | 1.13 |
| 2 0616 | 2.88 | 17 0522 | 2.80 | 2 0054 | 0.88 | 2 0628 | 2.83 |
| 1229 | 1.05 | 1134 | 1.15 | 0729 | 3.03 | 1252 | 1.07 |
| WE 1809 | 2.56 | TH 1724 | 2.51 | SA 1351 | 0.97 | SU 1836 | 2.44 |
| 1859 | 2.55 | 2347 | 0.76 | 1932 | 2.53 | 1800 | 2.58 |
| 3 0024 | 0.76 | 18 0615 | 3.05 | 3 0133 | 0.81 | 3 0039 | 1.00 |
| 0702 | 3.00 | 1231 | 0.98 | 0804 | 3.09 | 0708 | 2.95 |
| TH 1319 | 0.97 | FR 1823 | 2.59 | SU 1427 | 0.91 | SU 1330 | 0.96 |
| 1859 | 2.55 | 2010 | 2.59 | MO 1403 | 0.62 | MO 1255 | 0.71 |
| 4 0106 | 0.71 | 19 0037 | 0.61 | 4 0208 | 0.75 | 4 0118 | 0.89 |
| 0742 | 3.09 | 0704 | 3.28 | 0836 | 3.12 | 0742 | 3.03 |
| FR 1403 | 0.92 | SA 1325 | 0.82 | MO 1500 | 0.88 | MO 1403 | 0.88 |
| 1943 | 2.55 | 1918 | 2.68 | 2044 | 2.62 | 1942 | 2.99 |
| 5 0143 | 0.68 | 20 0125 | 0.47 | 5 0239 | 0.73 | 5 0152 | 0.81 |
| 0818 | 3.12 | 0752 | 3.47 | 0907 | 3.11 | 0814 | 3.08 |
| SA 1442 | 0.89 | SU 1417 | 0.68 | TU 1532 | 0.87 | TU 1434 | 0.83 |
| 2222 | 2.55 | 2009 | 2.77 | WE 1532 | 0.45 | WE 1424 | 0.43 |
| 6 0217 | 0.68 | 21 0213 | 0.37 | ● 2116 | 2.64 | 2023 | 2.74 |
| 0853 | 3.12 | 0839 | 3.59 | ○ 2130 | 3.05 | 2027 | 3.13 |
| SU 1519 | 0.89 | MO 1505 | 0.58 | 6 0309 | 0.73 | 6 0223 | 0.76 |
| ● 2059 | 2.53 | ○ 2058 | 2.83 | 0936 | 3.08 | 0843 | 3.09 |
| 7 0250 | 0.70 | 22 0259 | 0.32 | WE 1602 | 0.88 | WE 1504 | 0.80 |
| 0924 | 3.08 | 0925 | 3.63 | TH 1613 | 0.47 | TH 1505 | 0.39 |
| MO 1553 | 0.91 | TU 1552 | 0.54 | 2147 | 2.64 | 2054 | 2.79 |
| 2133 | 2.50 | 2145 | 2.85 | 2214 | 3.05 | ○ 2110 | 3.21 |
| 8 0321 | 0.74 | 23 0345 | 0.35 | 7 0339 | 0.76 | 7 0253 | 0.74 |
| 0956 | 3.02 | 1011 | 3.59 | 1004 | 3.03 | 22 0318 | 0.38 |
| TU 1627 | 0.95 | WE 1638 | 0.56 | TH 1632 | 0.91 | 0910 | 3.07 |
| 2206 | 2.47 | 2232 | 2.83 | FR 1654 | 0.56 | FR 1543 | 0.43 |
| 9 0352 | 0.80 | 24 0432 | 0.46 | 2219 | 2.63 | ● 2125 | 2.82 |
| 1027 | 2.95 | 1058 | 3.45 | 8 0410 | 0.83 | 8 0323 | 0.75 |
| WE 1701 | 0.99 | TH 1723 | 0.63 | 1032 | 2.95 | 0938 | 3.01 |
| 2241 | 2.42 | 2320 | 2.76 | FR 1703 | 0.95 | FR 1600 | 0.81 |
| 10 0425 | 0.89 | 25 0520 | 0.65 | 2253 | 2.60 | 2156 | 2.82 |
| 1059 | 2.87 | 1144 | 3.25 | 8 0410 | 0.83 | 2343 | 2.85 |
| TH 1736 | 1.05 | FR 1809 | 0.74 | SU 1736 | 1.00 | 2234 | 3.11 |
| 2319 | 2.38 | 1857 | 0.87 | WE 1736 | 0.88 | 9 0354 | 0.81 |
| 11 0502 | 1.00 | 26 0011 | 2.67 | 2331 | 2.55 | 1005 | 2.92 |
| 1136 | 2.77 | 0612 | 0.89 | 1103 | 2.84 | 1005 | 2.92 |
| FR 1816 | 1.10 | SA 1233 | 3.00 | SA 1736 | 1.00 | 1629 | 0.84 |
| 1857 | 0.87 | 1857 | 0.87 | WE 1814 | 0.88 | SU 1656 | 0.70 |
| 12 0002 | 2.33 | 27 0106 | 2.57 | 1103 | 2.84 | 2229 | 2.81 |
| 0544 | 1.14 | 0713 | 1.13 | 1108 | 2.87 | 1047 | 2.95 |
| SA 1217 | 2.66 | SU 1325 | 2.75 | 1108 | 2.87 | 1047 | 2.95 |
| 1900 | 1.13 | 1949 | 0.98 | 1108 | 2.87 | 1656 | 0.70 |
| 13 0053 | 2.29 | 28 0214 | 2.51 | 1108 | 2.87 | 2316 | 2.97 |
| 0637 | 1.27 | 0829 | 1.30 | 1108 | 2.87 | 2323 | 2.88 |
| SU 1306 | 2.56 | MO 1425 | 2.54 | 1108 | 2.87 | 2323 | 2.88 |
| 1952 | 1.15 | ● 2050 | 1.06 | 1108 | 2.87 | 2323 | 2.88 |
| 14 0156 | 2.30 | 29 0337 | 2.52 | 1201 | 1.13 | 1045 | 2.92 |
| 0745 | 1.37 | 0959 | 1.36 | 2237 | 1.23 | 1045 | 2.92 |
| MO 1404 | 2.48 | TU 1534 | 2.40 | 1201 | 1.13 | 1634 | 2.19 |
| ● 2053 | 1.12 | 2158 | 1.08 | 2237 | 1.23 | 1428 | 2.05 |
| 15 0311 | 2.38 | 30 0500 | 2.63 | 1201 | 1.13 | 1902 | 1.14 |
| 0910 | 1.39 | 1120 | 1.29 | 2237 | 1.23 | 2014 | 1.36 |
| TU 1512 | 2.44 | WE 1649 | 2.35 | 1201 | 1.13 | 2014 | 1.36 |
| 2157 | 1.03 | 2308 | 1.04 | 2237 | 1.23 | 2056 | 1.40 |
| 31 0601 | 2.79 | | | 1201 | 1.13 | 2056 | 1.40 |
| 1221 | 1.18 | | | 2237 | 1.23 | 2056 | 1.40 |
| TH 1756 | 2.39 | | | 1201 | 1.13 | 2056 | 1.40 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

● First Quarter

Full Moon

Last Quarter

AUSTRALIA, EAST COAST – BUNDABERG (BURNETT HEADS)

2019

LAT 24° 46' S LONG 152° 23' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 0015 | 1.07 | 16 0022 | 0.73 | 1 0101 | 0.94 | 16 0152 | 0.76 | 1 0121 | 0.84 | 16 0227 | 0.76 | 1 0241 | 0.50 | 16 0317 | 0.68 | 1 0324 | 0.50 | 16 0402 | 0.68 | 1 0421 | 0.50 | 16 0492 | 0.68 | 1 0532 | 0.50 | 16 0521 | 0.68 | 1 0643 | 0.50 | 16 0611 | 0.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0627 | 2.76 | 16 0622 | 3.06 | 0655 | 2.64 | 16 0735 | 2.63 | 0709 | 2.51 | 16 0807 | 2.45 | 0723 | 2.41 | 16 0879 | 2.35 | 0735 | 2.31 | 16 0950 | 2.25 | 0747 | 2.21 | 16 1021 | 2.15 | 0759 | 2.11 | 16 1092 | 2.05 | 0811 | 2.01 | 16 1163 | 1.95 | 0823 | 1.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WE 1249 | 0.81 | TH 1244 | 0.50 | SA 1313 | 0.62 | SU 1339 | 0.52 | MO 1319 | 0.51 | TU 1402 | 0.60 | 1947 | 3.21 | 2039 | 3.09 | 1959 | 3.15 | 2131 | 3.09 | 2008 | 3.15 | 2153 | 3.16 | 2023 | 3.15 | 2148 | 3.20 | 2030 | 3.15 | 2153 | 3.16 | 2039 | 3.09 | 2122 | 2.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1852 | 2.72 | 1904 | 3.08 | 1930 | 3.03 | 2014 | 3.18 | 1947 | 3.21 | 2039 | 3.09 | 2114 | 3.05 | 2122 | 2.98 | 2131 | 3.10 | 2146 | 2.99 | 2153 | 3.05 | 2230 | 3.41 | 2245 | 3.23 | 2251 | 3.23 | 2259 | 3.21 | 2266 | 3.20 | 2273 | 3.21 | 2280 | 3.22 | 2287 | 3.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 0054 | 0.96 | 17 0114 | 0.66 | 2 0142 | 0.85 | 17 0237 | 0.75 | 2 0208 | 0.73 | 17 0306 | 0.75 | 2 0326 | 0.42 | 17 0347 | 0.70 | 2 0456 | 0.43 | 17 0506 | 0.70 | 2 0541 | 0.51 | 17 0518 | 0.83 | 2 0628 | 0.62 | 17 0557 | 0.72 | 2 0643 | 0.62 | 17 0633 | 0.96 | 2 0719 | 0.74 | 17 0650 | 0.96 | 2 0725 | 0.74 | 17 0725 | 0.96 | 2 0754 | 0.74 | 17 0754 | 0.96 | 2 0832 | 0.74 | 17 0832 | 0.96 | 2 0920 | 0.70 | 17 0934 | 0.75 | 2 1056 | 0.70 | 17 1040 | 0.75 | 2 1146 | 0.65 | 17 1117 | 0.72 | 2 1240 | 0.57 | 17 1177 | 0.72 | 2 1331 | 0.57 | 17 1250 | 0.74 | 2 1422 | 0.57 | 17 1331 | 0.74 | 2 1512 | 0.65 | 17 1412 | 0.74 | 2 1607 | 0.31 | 17 1557 | 0.72 | 2 1655 | 0.45 | 17 1630 | 0.81 | 2 1746 | 0.66 | 17 1707 | 0.94 | 2 1833 | 0.90 | 17 1842 | 1.08 | 2 1953 | 1.10 | 17 1953 | 1.10 | 2 2041 | 1.20 | 17 1954 | 1.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0701 | 2.81 | 0709 | 3.02 | 0735 | 2.64 | 0819 | 2.56 | 0756 | 2.54 | 0846 | 2.44 | 0855 | 2.57 | 0940 | 2.40 | 0931 | 2.56 | 1040 | 2.38 | 0958 | 2.38 | 1056 | 2.70 | 1065 | 0.45 | 1075 | 0.45 | 1083 | 0.45 | 1091 | 0.45 | 1092 | 0.45 | 1094 | 0.45 | 1095 | 0.45 | 1096 | 0.45 | 1097 | 0.45 | 1098 | 0.45 | 1099 | 0.45 | 1100 | 0.45 | 1101 | 0.45 | 1102 | 0.45 | 1103 | 0.45 | 1104 | 0.45 | 1105 | 0.45 | 1106 | 0.45 | 1107 | 0.45 | 1108 | 0.45 | 1109 | 0.45 | 1110 | 0.45 | 1111 | 0.45 | 1112 | 0.45 | 1113 | 0.45 | 1114 | 0.45 | 1115 | 0.45 | 1116 | 0.45 | 1117 | 0.45 | 1118 | 0.45 | 1119 | 0.45 | 1120 | 0.45 | 1121 | 0.45 | 1122 | 0.45 | 1123 | 0.45 | 1124 | 0.45 | 1125 | 0.45 | 1126 | 0.45 | 1127 | 0.45 | 1128 | 0.45 | 1129 | 0.45 | 1130 | 0.45 | 1131 | 0.45 | 1132 | 0.45 | 1133 | 0.45 | 1134 | 0.45 | 1135 | 0.45 | 1136 | 0.45 | 1137 | 0.45 | 1138 | 0.45 | 1139 | 0.45 | 1140 | 0.45 | 1141 | 0.45 | 1142 | 0.45 | 1143 | 0.45 | 1144 | 0.45 | 1145 | 0.45 | 1146 | 0.45 | 1147 | 0.45 | 1148 | 0.45 | 1149 | 0.45 | 1150 | 0.45 | 1151 | 0.45 | 1152 | 0.45 | 1153 | 0.45 | 1154 | 0.45 | 1155 | 0.45 | 1156 | 0.45 | 1157 | 0.45 | 1158 | 0.45 | 1159 | 0.45 | 1160 | 0.45 | 1161 | 0.45 | 1162 | 0.45 | 1163 | 0.45 | 1164 | 0.45 | 1165 | 0.45 | 1166 | 0.45 | 1167 | 0.45 | 1168 | 0.45 | 1169 | 0.45 | 1170 | 0.45 | 1171 | 0.45 | 1172 | 0.45 | 1173 | 0.45 | 1174 | 0.45 | 1175 | 0.45 | 1176 | 0.45 | 1177 | 0.45 | 1178 | 0.45 | 1179 | 0.45 | 1180 | 0.45 | 1181 | 0.45 | 1182 | 0.45 | 1183 | 0.45 | 1184 | 0.45 | 1185 | 0.45 | 1186 | 0.45 | 1187 | 0.45 | 1188 | 0.45 | 1189 | 0.45 | 1190 | 0.45 | 1191 | 0.45 | 1192 | 0.45 | 1193 | 0.45 | 1194 | 0.45 | 1195 | 0.45 | 1196 | 0.45 | 1197 | 0.45 | 1198 | 0.45 | 1199 | 0.45 | 1200 | 0.45 | 1201 | 0.45 | 1202 | 0.45 | 1203 | 0.45 | 1204 | 0.45 | 1205 | 0.45 | 1206 | 0.45 | 1207 | 0.45 | 1208 | 0.45 | 1209 | 0.45 | 1210 | 0.45 | 1211 | 0.45 | 1212 | 0.45 | 1213 | 0.45 | 1214 | 0.45 | 1215 | 0.45 | 1216 | 0.45 | 1217 | 0.45 | 1218 | 0.45 | 1219 | 0.45 | 1220 | 0.45 | 1221 | 0.45 | 1222 | 0.45 | 1223 | 0.45 | 1224 | 0.45 | 1225 | 0.45 | 1226 | 0.45 | 1227 | 0.45 | 1228 | 0.45 | 1229 | 0.45 | 1230 | 0.45 | 1231 | 0.45 | 1232 | 0.45 | 1233 | 0.45 | 1234 | 0.45 | 1235 | 0.45 | 1236 | 0.45 | 1237 | 0.45 | 1238 | 0.45 | 1239 | 0.45 | 1240 | 0.45 | 1241 | 0.45 | 1242 | 0.45 | 1243 | 0.45 | 1244 | 0.45 | 1245 | 0.45 | 1246 | 0.45 | 1247 | 0.45 | 1248 | 0.45 | 1249 | 0.45 | 1250 | 0.45 | 1251 | 0.45 | 1252 | 0.45 | 1253 | 0.45 | 1254 | 0.45 | 1255 | 0.45 | 1256 | 0.45 | 1257 | 0.45 | 1258 | 0.45 | 1259 | 0.45 | 1260 | 0.45 | 1261 | 0.45 | 1262 | 0.45 | 1263 | 0.45 | 1264 | 0.45 | 1265 | 0.45 | 1266 | 0.45 | 1267 | 0.45 | 1268 | 0.45 | 1269 | 0.45 | 1270 | 0.45 | 1271 | 0.45 | 1272 | 0.45 | 1273 | 0.45 | 1274 | 0.45 | 1275 | 0.45 | 1276 | 0.45 | 1277 | 0.45 | 1278 | 0.45 | 1279 | 0.45 | 1280 | 0.45 | 1281 | 0.45 | 1282 | 0.45 | 1283 | 0.45 | 1284 | 0.45 | 1285 | 0.45 | 1286 | 0.45 | 1287 | 0.45 | 1288 | 0.45 | 1289 | 0.45 | 1290 | 0.45 | 1291 | 0.45 | 1292 | 0.45 | 1293 | 0.45 | 1294 | 0.45 | 1295 | 0.45 | 1296 | 0.45 | 1297 | 0.45 | 1298 | 0.45 | 1299 | 0.45 | 1300 | 0.45 | 1301 | 0.45 | 1302 | 0.45 | 1303 | 0.45 | 1304 | 0.45 | 1305 | 0.45 | 1306 | 0.45 | 1307 | 0.45 | 1308 | 0.45 | 1309 | 0.45 | 1310 | 0.45 | 1311 | 0.45 | 1312 | 0.45 | 1313 | 0.45 | 1314 | 0.45 | 1315 | 0.45 | 1316 | 0.45 | 1317 | 0.45 | 1318 | 0.45 | 1319 | 0.45 | 1320 | 0.45 | 1321 | 0.45 | 1322 | 0.45 | 1323 | 0.45 | 1324 | 0.45 | 1325 | 0.45 | 1326 | 0.45 | 1327 | 0.45 | 1328 | 0.45 | 1329 | 0.45 | 1330 | 0.45 | 1331 | 0.45 | 1332 | 0.45 | 1333 | 0.45 | 1334 | 0.45 | 1335 | 0.45 | 1336 | 0.45 | 1337 | 0.45 | 1338 | 0.45 | 1339 | 0.45 | 1340 | 0.45 | 1341 | 0.45 | 1342 | 0.45 | 1343 | 0.45 | 1344 | 0.45 | 1345 | 0.45 | 1346 | 0.45 | 1347 | 0.45 | 1348 | 0.45 | 1349 | 0.45 | 1350 | 0.45 | 1351 | 0.45 | 1352 | 0.45 | 1353 | 0.45 | 1354 | 0.45 | 1355 | 0.45 | 1356 | 0.45 | 1357 | 0.45 | 1358 | 0.45 | 1359 | 0.45 | 1360 | 0.45 | 1361 | 0.45 | 1362 | 0.45 | 1363 | 0.45 | 1364 | 0.45 | 1365 | 0.45 | 1366 | 0.45 | 1367 | 0.45 | 1368 | 0.45 | 1369 | 0.45 | 1370 | 0.45 | 1371 | 0.45 | 1372 | 0.45 | 1373 | 0.45 | 1374 | 0.45 | 1375 | 0.45 | 1376 | 0.45 | 1377 | 0.45 | 1378 | 0.45 | 1379 | 0.45 | 1380 | 0.45 | 1381 | 0.45 | 1382 | 0.45 | 1383 | 0.45 | 1384 | 0.45 | 1385 | 0.45 | 1386 | 0.45 | 1387 | 0.45 | 1388 | 0.45 | 1389 | 0.45 | 1390 | 0.45 | 1391 | 0.45 | 1392 | 0.45 | 1393 | 0.45 | 1394 | 0.45 | 1395 | 0.45 | 1396 | 0.45 | 1397 | 0.45 | 1398 | 0.45 | 1399 | 0.45 | 1400 | 0.45 | 1401 | 0.45 | 1402 | 0.45 | 1403 | 0.45 | 1404 | 0.45 | 1405 | 0.45 | 1406 | 0.45 | 1407 | 0.45 | 1408 | 0.45 | 1409 | 0.45 | 1410 | 0.45 | 1411 | 0.45 | 1412 | 0.45 | 1413 | 0.45 | 1414 | 0.45 | 1415 | 0.45 | 1416 | 0.45 | 1417 | 0.45 | 1418 | 0.45 | 1419 | 0.45 | 1420 | 0.45 | 1421 | 0.45 | 1422 | 0.45 | 1423 | 0.45 | 1424 | 0.45 | 1425 | 0.45 | 1426 | 0.45 | 1427 | 0.45 | 1428 | 0.45 | 1429 | 0.45 | 1430 | 0.45 | 1431 | 0.45 | 1432 | 0.45 | 1433 | 0.45 | 1434 | 0.45 | 1435 | 0.45 | 1436 | 0.45 | 1437 | 0.45 | 1438 | 0.45 | 1439 | 0.45 | 1440 | 0.45 | 1441 | 0.45 | 1442 | 0.45 | 1443 | 0.45 | 1444 | 0.45 | 1445 | 0.45 | 1446 | 0.45 | 1447 | 0.45 | 1448 | 0.45 | 1449 | 0.45 | 1450 | 0.45 | 1451 | 0.45 | 1452 | 0.45 | 1453 | 0.45 | 1454 | 0.45 | 1455 | 0.45 | 1456 | 0.45 | 1457 | 0.45 | 1458 | 0.45 | 1459 | 0.45 | 1460 | 0.45 | 1461 | 0.45 | 1462 | 0.45 | 1463 | 0.45 | 1464 | 0.45 | 1465 | 0.45 | 1466 | 0.45 | 1467 | 0.45 | 1468 | 0.45 | 1469 | 0.45 | 1470 | 0.45 | 1471 | 0.45 | 1472 | 0.45 | 1473 | 0.45 | 1474 | 0.45 | 1475 | 0.45 | 1476 | 0.45 | 1477 | 0.45 | 1478 | 0.45 | 1479 | 0.45 | 1480 | 0.45 | 1481 | 0.45 | 1482 | 0.45 | 1483 | 0.45 | 1484 | 0.45 | 1485 | 0.45 | 1486 | 0.45 | 1487 | 0.45 | 1488 | 0.45 | 1489 | 0.45 | 1490 | 0.45 | 1491 | 0.45 | 1492 | 0.45 | 1493 | 0.45 | 1494 | 0.45 | 1495 | 0.45 | 1496 | 0.45 | 1497 | 0.45 | 1498 | 0.45 | 1499 | 0.45 | 1500 | 0.45 | 1501 | 0.45 | 1502 | 0.45 | 1503 | 0.45 | 1504 | 0.45 | 1505 | 0.45 | 1506 | 0.45 | |

AUSTRALIA, EAST COAST – BUNDABERG (BURNETT HEADS)

2019

LAT 24° 46' S LONG 152° 23' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|---------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0347 | 0.25 | 16 0342 | 0.62 | 1 0355 | 0.28 | 16 0336 | 0.60 | 1 0437 | 0.69 | 16 0413 | 0.72 | 1 0447 | 0.91 | 16 0447 | 0.73 |
| 0948 | 2.93 | 0940 | 2.67 | 1011 | 3.06 | 0947 | 2.85 | 1119 | 2.85 | 1047 | 2.94 | 1140 | 2.77 | 1126 | 3.11 |
| SU 1553 | 0.25 | MO 1539 | 0.69 | TU 1625 | 0.49 | WE 1557 | 0.79 | FR 1751 | 1.00 | SA 1710 | 0.94 | SU 1820 | 1.10 | MO 1755 | 0.88 |
| 2206 | 3.36 | 2147 | 2.76 | 2223 | 2.90 | 2149 | 2.54 | 2329 | 2.19 | 2252 | 2.26 | 2355 | 2.11 | 2344 | 2.34 |
| 2 0428 | 0.31 | 17 0410 | 0.67 | 2 0433 | 0.44 | 17 0404 | 0.67 | 2 0516 | 0.91 | 17 0456 | 0.83 | 2 0529 | 1.08 | 17 0539 | 0.85 |
| 1034 | 2.90 | 1012 | 2.65 | 1056 | 2.94 | 1023 | 2.80 | 1210 | 2.66 | 1136 | 2.86 | 1228 | 2.62 | 1220 | 3.03 |
| MO 1639 | 0.42 | TU 1612 | 0.78 | WE 1713 | 0.73 | TH 1634 | 0.88 | SA 1850 | 1.15 | SU 1803 | 1.01 | MO 1914 | 1.17 | TU 1852 | 0.91 |
| 2249 | 3.11 | 2214 | 2.64 | 2306 | 2.59 | 2221 | 2.40 | 2347 | 2.15 | | | | | | |
| 3 0508 | 0.44 | 18 0439 | 0.74 | 3 0512 | 0.64 | 18 0436 | 0.77 | 3 0024 | 2.01 | 18 0549 | 0.96 | 3 0050 | 2.04 | 18 0045 | 2.31 |
| 1121 | 2.81 | 1047 | 2.60 | 1145 | 2.76 | 1102 | 2.73 | 0605 | 1.10 | 1236 | 2.80 | 0624 | 1.23 | 18 0642 | 0.98 |
| TU 1729 | 0.67 | WE 1648 | 0.90 | 1806 | 0.98 | FR 1717 | 0.99 | 1312 | 2.51 | MO 1908 | 1.04 | 1325 | 2.52 | WE 1320 | 2.95 |
| 2334 | 2.81 | 2244 | 2.49 | 2353 | 2.29 | 2258 | 2.25 | 2006 | 1.22 | | | 2016 | 1.19 | 1953 | 0.91 |
| 4 0551 | 0.61 | 19 0510 | 0.82 | 4 0554 | 0.86 | 19 0513 | 0.89 | 4 0135 | 1.92 | 19 0058 | 2.10 | 4 0159 | 2.03 | 19 0157 | 2.33 |
| 1212 | 2.67 | 1127 | 2.54 | 1241 | 2.59 | 1151 | 2.65 | 0714 | 1.25 | 0659 | 1.05 | 0737 | 1.34 | 0757 | 1.07 |
| WE 1823 | 0.93 | TH 1729 | 1.03 | 1913 | 1.17 | SA 1809 | 1.09 | 1427 | 2.44 | TU 1345 | 2.79 | 1429 | 2.47 | TH 1422 | 2.89 |
| 2318 | 2.32 | | | | | 2348 | 2.10 | 2128 | 1.19 | 2022 | 1.00 | 2121 | 1.15 | 2058 | 0.86 |
| 5 0021 | 2.50 | 20 0547 | 0.92 | 5 0051 | 2.05 | 20 0605 | 1.01 | 5 0309 | 1.96 | 20 0224 | 2.15 | 5 0321 | 2.11 | 20 0314 | 2.44 |
| 0636 | 0.78 | 1214 | 2.48 | 0647 | 1.05 | 1252 | 2.59 | 0848 | 1.30 | 0824 | 1.06 | 0902 | 1.36 | 20 0917 | 1.08 |
| TH 1311 | 2.54 | FR 1819 | 1.16 | 1352 | 2.46 | SU 1916 | 1.16 | 1545 | 2.46 | WE 1455 | 2.83 | 1535 | 2.47 | FR 1526 | 2.85 |
| 1932 | 1.16 | | | 2048 | 1.25 | | | 2233 | 1.08 | 2135 | 0.88 | 2220 | 1.06 | 2159 | 0.79 |
| 6 0120 | 2.22 | 21 0004 | 2.16 | 6 0212 | 1.92 | 21 0102 | 2.00 | 6 0429 | 2.12 | 21 0346 | 2.32 | 6 0431 | 2.27 | 21 0426 | 2.62 |
| 0732 | 0.94 | 0636 | 1.01 | 0805 | 1.18 | 0717 | 1.09 | 1013 | 1.23 | 0944 | 0.97 | 1018 | 1.30 | 21 1031 | 1.03 |
| FR 1427 | 2.46 | SA 1316 | 2.44 | SU 1523 | 2.43 | MO 1407 | 2.61 | 1645 | 2.53 | TH 1559 | 2.91 | 1632 | 2.50 | SA 1627 | 2.81 |
| 2109 | 1.25 | 1928 | 1.25 | 2221 | 1.17 | 2045 | 1.12 | 2322 | 0.95 | 2237 | 0.72 | 2308 | 0.95 | 2256 | 0.69 |
| 7 0237 | 2.05 | 22 0113 | 2.02 | 7 0356 | 1.96 | 22 0243 | 2.02 | 7 0522 | 2.31 | 22 0452 | 2.57 | 7 0522 | 2.47 | 22 0529 | 2.84 |
| 0846 | 1.03 | 0746 | 1.06 | 0943 | 1.18 | 0849 | 1.05 | 1114 | 1.11 | 1051 | 0.84 | 1117 | 1.20 | 22 1138 | 0.94 |
| SA 1559 | 2.48 | SU 1433 | 2.48 | 1641 | 2.51 | TU 1525 | 2.72 | 1732 | 2.61 | FR 1658 | 2.99 | 1721 | 2.53 | SU 1726 | 2.77 |
| 2245 | 1.17 | 2105 | 1.22 | 2322 | 1.02 | 2206 | 0.95 | | | 2329 | 0.56 | 2349 | 0.83 | 2349 | 0.61 |
| 8 0411 | 2.03 | 23 0254 | 2.00 | 8 0508 | 2.13 | 23 0411 | 2.21 | 8 0001 | 0.83 | 23 0548 | 2.82 | 8 0604 | 2.66 | 23 0624 | 3.03 |
| 1011 | 1.02 | 0914 | 1.01 | 1100 | 1.07 | 1008 | 0.90 | 0602 | 2.50 | 1151 | 0.71 | 1206 | 1.10 | 23 1237 | 0.86 |
| SU 1714 | 2.60 | MO 1553 | 2.63 | TU 1735 | 2.63 | WE 1632 | 2.90 | 1200 | 1.00 | SA 1752 | 3.03 | 1804 | 2.56 | MO 1823 | 2.74 |
| 2349 | 1.02 | 2231 | 1.05 | | | 2309 | 0.74 | 1812 | 2.68 | | | | | | |
| 9 0526 | 2.15 | 24 0427 | 2.14 | 9 0006 | 0.88 | 24 0515 | 2.47 | 9 0036 | 0.72 | 24 0017 | 0.43 | 9 0026 | 0.73 | 24 0037 | 0.55 |
| 1123 | 0.93 | 1028 | 0.85 | 0555 | 2.32 | 1112 | 0.71 | 0638 | 2.67 | 0638 | 3.04 | 0642 | 2.84 | 24 0712 | 3.18 |
| MO 1807 | 2.74 | TU 1701 | 2.86 | 1153 | 0.94 | TH 1729 | 3.08 | 1240 | 0.90 | SU 1246 | 0.62 | 1249 | 1.00 | TU 1331 | 0.80 |
| 2336 | 0.82 | | | 1817 | 2.74 | | | 1847 | 2.72 | 1843 | 3.01 | 1844 | 2.58 | 1915 | 2.70 |
| 10 0036 | 0.87 | 25 0533 | 2.37 | 10 0043 | 0.76 | 25 0001 | 0.53 | 10 0107 | 0.63 | 25 0101 | 0.35 | 10 0101 | 0.65 | 25 0121 | 0.51 |
| 0617 | 2.29 | 1131 | 0.64 | 0634 | 2.48 | 0608 | 2.74 | 0712 | 2.81 | 0723 | 3.20 | 0718 | 2.99 | 25 0757 | 3.27 |
| TU 1217 | 0.82 | WE 1758 | 3.10 | 1235 | 0.83 | FR 1208 | 0.53 | 1317 | 0.83 | MO 1337 | 0.58 | 1330 | 0.92 | WE 1420 | 0.76 |
| 1850 | 2.85 | | | 1854 | 2.82 | 1821 | 3.21 | 1920 | 2.73 | 1930 | 2.95 | 1923 | 2.58 | 2003 | 2.65 |
| 11 0114 | 0.75 | 26 0028 | 0.58 | 11 0115 | 0.66 | 26 0047 | 0.36 | 11 0137 | 0.57 | 26 0142 | 0.32 | 11 0135 | 0.59 | 26 0203 | 0.51 |
| 0658 | 2.43 | 0626 | 2.61 | 0709 | 2.61 | 0655 | 2.97 | 0744 | 2.92 | 0807 | 3.29 | 0754 | 3.11 | 26 0839 | 3.28 |
| WE 1259 | 0.73 | TH 1226 | 0.44 | 1311 | 0.74 | SA 1300 | 0.41 | 1353 | 0.79 | TU 1426 | 0.59 | 1411 | 0.86 | 26 1505 | 0.77 |
| 1925 | 2.93 | 1847 | 3.30 | 1926 | 2.86 | 1908 | 3.26 | 1952 | 2.70 | 2015 | 2.84 | 2001 | 2.57 | 2047 | 2.60 |
| 12 0148 | 0.67 | 27 0115 | 0.39 | 12 0145 | 0.60 | 27 0129 | 0.24 | 12 0206 | 0.54 | 27 0220 | 0.35 | 12 0209 | 0.55 | 27 0242 | 0.56 |
| 0735 | 2.53 | 0713 | 2.82 | 0741 | 2.72 | 0739 | 3.14 | 0817 | 3.00 | 0850 | 3.29 | 0832 | 3.19 | 27 0919 | 3.24 |
| TH 1335 | 0.66 | FR 1317 | 0.29 | 1344 | 0.69 | SU 1349 | 0.35 | 1429 | 0.77 | WE 1514 | 0.64 | 1452 | 0.82 | 27 1548 | 0.81 |
| 1958 | 2.96 | 1934 | 3.43 | 1956 | 2.87 | 1952 | 3.23 | 2024 | 2.65 | 2100 | 2.70 | 2040 | 2.54 | 2128 | 2.53 |
| 13 0219 | 0.62 | 28 0157 | 0.25 | 13 0213 | 0.56 | 28 0208 | 0.20 | 13 0236 | 0.53 | 28 0258 | 0.44 | 13 0244 | 0.54 | 28 0319 | 0.63 |
| 0807 | 2.60 | 0759 | 2.99 | 0812 | 2.79 | 0823 | 3.23 | 0851 | 3.04 | 0932 | 3.23 | 0910 | 3.22 | 28 0957 | 3.14 |
| FR 1407 | 0.62 | SA 1405 | 0.20 | 1416 | 0.67 | MO 1437 | 0.37 | 1505 | 0.78 | TH 1559 | 0.74 | 1533 | 0.81 | SA 1628 | 0.87 |
| 2027 | 2.97 | 2017 | 3.45 | 2024 | 2.83 | ● 2036 | 3.11 | 2057 | 2.57 | 2143 | 2.54 | 2120 | 2.50 | 2208 | 2.46 |
| 14 0248 | 0.60 | 29 0238 | 0.18 | 14 0241 | 0.54 | 29 0246 | 0.23 | 14 0306 | 0.56 | 29 0335 | 0.57 | 14 0321 | 0.57 | 29 0352 | 0.74 |
| 0838 | 2.65 | 0843 | 3.10 | 0842 | 2.84 | 0906 | 3.25 | 0926 | 3.04 | 1013 | 3.10 | 0952 | 3.22 | 29 1034 | 3.02 |
| SA 1437 | 0.61 | SU 1452 | 0.21 | 1448 | 0.68 | TU 1524 | 0.46 | 1544 | 0.81 | FR 1645 | 0.86 | 1618 | 0.82 | SU 1708 | 0.96 |
| ● 2055 | 2.93 | ● 2100 | 3.36 | 2052 | 2.76 | 2118 | 2.91 | 2131 | 2.48 | 2225 | 2.37 | 2204 | 2.45 | 2246 | 2.37 |
| 15 0315 | 0.60 | 30 0317 | 0.19 | 15 0307 | 0.56 | 30 0324 | 0.33 | 15 0338 | 0.63 | 30 0411 | 0.73 | 15 0402 | 0.63 | 30 0426 | 0.87 |
| 0909 | 2.67 | 0927 | 3.12 | 0914 | 2.86 | 0949 | 3.17 | 1004 | 3.01 | 1056 | 2.93 | 1036 | 3.18 | 30 1110 | 2.89 |
| SU 1508 | 0.63 | MO 1538 | 0.31 | TU 1521 | 0.72 | WE 1611 | 0.62 | 1625 | 0.87 | SA 1732 | 0.99 | 1704 | 0.85 | MO 1746 | 1.04 |
| 2121 | 2.86 | 2141 | 3.17 | 2120 | 2.67 | 2200 | 2.67 | 2209 | 2.37 | 2308 | 2.23 | 2251 | 2.39 | 2324 | 2.30 |
| | | | | 31 | 0401 | 0.49 | | | | | | | | | |
| | | | | | 1033 | 3.03 | | | | | | | | | |
| | | | | | TH 1659 | 0.81 | | | | | | | | | |
| | | | | | 2243 | 2.42 | | | | | | | | | |

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Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – GLADSTONE

2019

LAT 23° 50' S LONG 151° 15' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0604 | 3.75 | 16 | 0504 | 3.51 | 1 | 0057 | 1.25 | 16 | 0000 | 1.15 | 1 | 0619 | 3.71 | |
| | 1215 | 1.32 | | 1113 | 1.60 | | 0728 | 4.01 | | 0634 | 4.14 | | 1242 | 1.40 | |
| TU | 1807 | 3.50 | WE | 1710 | 3.31 | FR | 1344 | 1.18 | SA | 1259 | 1.11 | FR | 1840 | 3.24 | |
| | 2330 | 1.15 | | 1941 | 3.42 | | 1941 | 3.42 | | 1902 | 3.51 | | 2342 | 1.27 | |
| 2 | 0024 | 1.02 | 17 | 0604 | 3.83 | 2 | 0142 | 1.14 | 17 | 0102 | 0.90 | 2 | 0045 | 1.47 | |
| | 0656 | 3.95 | | 1217 | 1.35 | | 0807 | 4.12 | | 0727 | 4.44 | | 0707 | 3.89 | |
| WE | 1309 | 1.18 | TH | 1816 | 3.41 | SA | 1424 | 1.07 | SU | 1354 | 0.82 | SA | 1325 | 1.21 | |
| | 1902 | 3.49 | | 2022 | 3.50 | | 2022 | 3.50 | | 1955 | 3.73 | | 1927 | 3.43 | |
| 3 | 0111 | 0.96 | 18 | 0025 | 0.95 | 3 | 0217 | 1.06 | 18 | 0158 | 0.66 | 3 | 0128 | 1.30 | |
| | 0740 | 4.09 | | 0656 | 4.15 | | 0841 | 4.18 | | 0815 | 4.67 | | 0746 | 4.03 | |
| TH | 1356 | 1.08 | FR | 1314 | 1.09 | SU | 1459 | 1.01 | MO | 1442 | 0.58 | SU | 1401 | 1.08 | |
| | 1949 | 3.49 | | 2058 | 3.56 | | 2058 | 3.56 | | 2043 | 3.91 | | 2005 | 3.58 | |
| 4 | 0151 | 0.92 | 19 | 0118 | 0.76 | 4 | 0248 | 1.00 | 19 | 0248 | 0.46 | 4 | 0202 | 1.15 | |
| | 0819 | 4.18 | | 0744 | 4.42 | | 0913 | 4.20 | | 0902 | 4.81 | | 0820 | 4.12 | |
| FR | 1437 | 1.01 | SA | 1407 | 0.85 | MO | 1531 | 0.98 | TU | 1527 | 0.41 | MO | 1434 | 0.98 | |
| | 2032 | 3.49 | | 2130 | 3.59 | | 2130 | 3.59 | | 2128 | 4.06 | | 2038 | 3.68 | |
| 5 | 0227 | 0.90 | 20 | 0209 | 0.59 | 5 | 0316 | 0.96 | 20 | 0334 | 0.34 | 5 | 0232 | 1.04 | |
| | 0855 | 4.21 | | 0831 | 4.63 | | 0942 | 4.19 | | 0947 | 4.85 | | 0851 | 4.16 | |
| SA | 1516 | 0.98 | SU | 1457 | 0.65 | TU | 1602 | 0.97 | WE | 1611 | 0.35 | TU | 1504 | 0.92 | |
| | 2110 | 3.48 | | 2159 | 3.61 | | 2159 | 3.61 | | 2213 | 4.14 | | 2107 | 3.76 | |
| 6 | 0258 | 0.91 | 21 | 0258 | 0.47 | 6 | 0343 | 0.95 | 21 | 0419 | 0.35 | 6 | 0300 | 0.95 | |
| | 0928 | 4.19 | | 0917 | 4.77 | | 1009 | 4.16 | | 1031 | 4.77 | | 0918 | 4.18 | |
| SU | 1552 | 0.99 | MO | 1545 | 0.51 | WE | 1630 | 0.99 | TH | 1652 | 0.40 | WE | 1533 | 0.88 | |
| | 2146 | 3.45 | | 2227 | 3.61 | | 2227 | 3.61 | | 2258 | 4.14 | | 2135 | 3.82 | |
| 7 | 0326 | 0.95 | 22 | 0346 | 0.41 | 7 | 0411 | 0.97 | 22 | 0502 | 0.51 | 7 | 0328 | 0.90 | |
| | 1000 | 4.14 | | 1003 | 4.82 | | 1038 | 4.09 | | 1115 | 4.55 | | 0945 | 4.15 | |
| MO | 1625 | 1.03 | TU | 1630 | 0.45 | TH | 1659 | 1.04 | FR | 1733 | 0.58 | TH | 1601 | 0.87 | |
| | 2218 | 3.40 | | 2230 | 3.88 | | 2256 | 3.59 | | 2342 | 4.05 | | 2203 | 3.86 | |
| 8 | 0352 | 1.00 | 23 | 0432 | 0.45 | 8 | 0442 | 1.05 | 23 | 0546 | 0.79 | 8 | 0357 | 0.89 | |
| | 1030 | 4.07 | | 1050 | 4.76 | | 1108 | 3.98 | | 1200 | 4.22 | | 1013 | 4.09 | |
| TU | 1656 | 1.10 | WE | 1716 | 0.50 | FR | 1729 | 1.12 | SA | 1813 | 0.84 | FR | 1630 | 0.90 | |
| | 2249 | 3.35 | | 2317 | 3.85 | | 2328 | 3.54 | | 2317 | 3.82 | | 2232 | 3.86 | |
| 9 | 0420 | 1.07 | 24 | 0518 | 0.60 | 9 | 0513 | 1.19 | 24 | 0632 | 1.16 | 9 | 0428 | 0.95 | |
| | 1101 | 3.97 | | 1139 | 4.59 | | 1139 | 3.83 | | 1245 | 3.84 | | 1042 | 3.97 | |
| WE | 1727 | 1.18 | TH | 1801 | 0.63 | SA | 1800 | 1.23 | | 1853 | 1.14 | | 1658 | 0.98 | |
| | 2320 | 3.28 | | | | | | | | | | | 2303 | 3.83 | |
| 10 | 0451 | 1.19 | 25 | 0007 | 3.77 | 10 | 0004 | 3.47 | 25 | 0120 | 3.67 | 10 | 0500 | 1.08 | |
| | 1134 | 3.85 | | 0605 | 0.86 | | 0548 | 1.37 | | 0727 | 1.52 | | 1110 | 3.80 | |
| TH | 1801 | 1.27 | FR | 1227 | 4.32 | SU | 1213 | 3.64 | MO | 1336 | 3.45 | SU | 1726 | 1.11 | |
| | 2355 | 3.21 | | 1847 | 0.84 | | 1834 | 1.36 | | 1937 | 1.42 | | 2337 | 3.76 | |
| 11 | 0525 | 1.34 | 26 | 0059 | 3.64 | 11 | 0047 | 3.38 | 26 | 0222 | 3.48 | 11 | 0534 | 1.25 | |
| | 1212 | 3.71 | | 0657 | 1.17 | | 0630 | 1.57 | | 0846 | 1.78 | | 1141 | 3.59 | |
| FR | 1838 | 1.38 | SA | 1318 | 4.01 | MO | 1254 | 3.44 | TU | 1440 | 3.13 | MO | 1755 | 1.26 | |
| | 1935 | 1.07 | | 1935 | 1.07 | | 1918 | 1.48 | | 2041 | 1.65 | | 1840 | 1.53 | |
| 12 | 0038 | 3.14 | 27 | 0157 | 3.51 | 12 | 0143 | 3.32 | 27 | 0345 | 3.40 | 12 | 0017 | 3.66 | |
| | 0607 | 1.53 | | 0759 | 1.47 | | 0732 | 1.76 | | 1025 | 1.81 | | 0613 | 1.45 | |
| SA | 1254 | 3.56 | SU | 1414 | 3.68 | | 1350 | 3.25 | | WE | 1609 | 2.98 | | 1218 | 3.37 |
| | 1923 | 1.47 | | 2030 | 1.27 | | 2021 | 1.55 | | 2207 | 1.73 | | 1829 | 1.43 | |
| 13 | 0131 | 3.08 | 28 | 0307 | 3.44 | 13 | 0259 | 3.34 | 28 | 0513 | 3.50 | 13 | 0106 | 3.56 | |
| | 0702 | 1.71 | | 0920 | 1.67 | | 0909 | 1.83 | | 1146 | 1.63 | | 0709 | 1.65 | |
| SU | 1346 | 3.41 | MO | 1518 | 3.41 | | 1507 | 3.14 | | TH | 1739 | 3.05 | | 1313 | 3.15 |
| | 2019 | 1.51 | | 2136 | 1.40 | | 2140 | 1.52 | | 2342 | 1.65 | | 1926 | 1.58 | |
| 14 | 0239 | 3.10 | 29 | 0426 | 3.48 | 14 | 0421 | 3.51 | | | | 14 | 0217 | 3.50 | |
| | 0824 | 1.84 | | 1047 | 1.67 | | 1042 | 1.68 | | | | | 0839 | 1.75 | |
| MO | 1448 | 3.31 | TU | 1635 | 3.25 | | 1636 | 3.15 | | | | | 1436 | 3.01 | |
| | 2127 | 1.47 | | 2249 | 1.43 | | 2253 | 1.37 | | | | | 2058 | 1.64 | |
| 15 | 0354 | 3.24 | 30 | 0541 | 3.64 | 15 | 0534 | 3.81 | | | | 15 | 0344 | 3.58 | |
| | 0958 | 1.79 | | 1202 | 1.53 | | 1156 | 1.41 | | | | | 1017 | 1.64 | |
| TU | 1558 | 3.27 | WE | 1751 | 3.24 | | FR | 1758 | | | | | 1618 | 3.05 | |
| | 2232 | 1.33 | | | | | | | | | | | 2225 | 1.51 | |
| 31 | 0001 | 1.36 | | | | | | | | | | 31 | 0018 | 1.62 | |
| | 0640 | 3.85 | | | | | | | | | | | 0634 | 3.73 | |
| TH | 1258 | 1.34 | | | | | | | | | | | 1255 | 1.23 | |
| | 1852 | 3.32 | | | | | | | | | | | 1902 | 3.42 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – GLADSTONE

2019

LAT 23° 50' S LONG 151° 15' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 0057 | 1.33 | 16 0110 | 0.86 | 1 0139 | 1.07 | 16 0231 | 0.84 | 1 0201 | 0.92 | 16 0302 | 0.85 | 1 0322 | 0.45 | 16 0350 | 0.77 | 2 0407 | 0.34 | 17 0419 | 0.80 | 3 0452 | 0.32 | 18 0447 | 0.85 | 5 0621 | 0.56 | 20 0544 | 1.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0708 | 3.78 | 16 0709 | 4.10 | 0742 | 3.63 | 16 0822 | 3.58 | 0800 | 3.46 | 16 0857 | 3.37 | 0919 | 3.63 | 16 0949 | 3.44 | 2 1006 | 3.71 | 17 1018 | 3.44 | 3 1054 | 3.74 | 18 1047 | 3.42 | 5 1233 | 3.63 | 20 1153 | 3.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WE 1321 | 0.95 | TH 1330 | 0.55 | SA 1349 | 0.72 | SU 1427 | 0.70 | MO 1401 | 0.64 | TU 1450 | 0.86 | MO 1522 | 0.37 | FR 1536 | 0.83 | ● 2140 | 4.65 | 2159 | 4.02 | 3 1655 | 0.41 | SU 1632 | 0.92 | 5 1831 | 0.87 | 20 1735 | 1.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1934 | 3.77 | 1946 | 4.18 | 2010 | 4.14 | 2052 | 4.26 | 2027 | 4.34 | 2118 | 4.14 | ● 2140 | 4.65 | 2159 | 4.02 | 2 2225 | 4.65 | 2227 | 3.94 | 3 2312 | 4.54 | 2254 | 3.83 | 5 2355 | 3.45 | 20 2324 | 3.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 0132 | 1.16 | 17 0158 | 0.73 | 2 0221 | 0.93 | 17 0314 | 0.82 | 2 0248 | 0.76 | 17 0340 | 0.85 | 2 0421 | 0.57 | 19 0449 | 0.94 | 4 0536 | 0.40 | 19 0515 | 0.93 | 6 0048 | 4.00 | 21 0616 | 1.18 | 8 0244 | 3.34 | 23 0751 | 1.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0742 | 3.84 | 17 0755 | 4.05 | 0822 | 3.63 | 0907 | 3.50 | 0846 | 3.50 | 0936 | 3.34 | 1018 | 3.52 | 1043 | 3.27 | 1142 | 3.71 | 1117 | 3.38 | 7 0800 | 0.99 | 22 0654 | 1.32 | 9 0901 | 1.15 | 21 1233 | 3.23 | 11 1432 | 3.44 | 20 1325 | 3.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TH 1353 | 0.83 | FR 1411 | 0.50 | SU 1427 | 0.64 | MO 1503 | 0.76 | ● 2131 | 4.23 | 1446 | 0.56 | WE 1523 | 0.89 | 1617 | 0.56 | 1618 | 1.00 | 1328 | 3.52 | WE 1814 | 1.44 | 7 1432 | 1.44 | 20 1907 | 1.64 | 9 1546 | 3.43 | 21 1434 | 3.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2006 | 3.94 | 2027 | 4.31 | 2047 | 4.28 | 2209 | 4.15 | 2239 | 4.52 | 2254 | 3.91 | 2337 | 4.26 | 2355 | 3.71 | 2337 | 4.26 | 2355 | 3.64 | 2209 | 1.52 | 2036 | 1.75 | 9 1755 | 1.37 | 21 2215 | 1.64 | 11 1635 | 1.23 | 20 2333 | 1.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 0208 | 1.01 | 18 0243 | 0.67 | 3 0302 | 0.82 | 18 0356 | 0.86 | 3 0335 | 0.64 | 18 0416 | 0.88 | 5 0508 | 0.57 | 20 0520 | 1.02 | 7 0645 | 0.74 | 22 1227 | 3.09 | 9 0739 | 0.86 | 23 0704 | 1.31 | 11 1546 | 3.43 | 20 1552 | 0.93 | 13 1754 | 0.81 | 21 1719 | 1.22 | 15 1831 | 0.87 | 20 1927 | 1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0815 | 3.87 | 18 0839 | 3.95 | 0902 | 3.59 | 0948 | 3.40 | 0931 | 3.52 | 1011 | 3.31 | 1107 | 3.50 | 1115 | 3.21 | 1233 | 3.63 | 1253 | 3.40 | 1257 | 1.02 | 1354 | 3.37 | 1315 | 3.04 | 1456 | 3.43 | 21 1844 | 1.59 | 1635 | 1.23 | 20 1927 | 1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FR 1424 | 0.73 | SA 1450 | 0.52 | MO 1504 | 0.62 | TU 1537 | 0.87 | ● 2154 | 4.53 | 2223 | 4.01 | 1623 | 0.75 | 1631 | 1.14 | 1705 | 0.65 | 1647 | 1.09 | 1848 | 1.02 | 1951 | 1.23 | 2041 | 1.44 | 1907 | 1.64 | 1755 | 1.66 | 21 1844 | 1.59 | 1927 | 1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2038 | 4.08 | 2107 | 4.37 | ● 2126 | 4.36 | 2209 | 4.15 | 2239 | 4.52 | 2254 | 3.91 | 2337 | 4.26 | 2355 | 3.71 | 2337 | 4.26 | 2355 | 3.64 | 2209 | 1.52 | 2036 | 1.75 | 9 1755 | 1.37 | 21 2215 | 1.64 | 11 1635 | 1.23 | 20 2333 | 1.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 0243 | 0.90 | 19 0327 | 0.69 | 4 0345 | 0.77 | 19 0435 | 0.95 | 4 0421 | 0.57 | 19 0449 | 0.94 | 6 0516 | 0.83 | 21 0549 | 1.20 | 8 0608 | 0.63 | 21 0551 | 1.11 | 10 0708 | 0.77 | 21 1233 | 3.23 | 12 0800 | 0.99 | 22 0654 | 1.32 | 14 0901 | 1.15 | 23 0751 | 1.42 | 16 1432 | 3.44 | 20 1325 | 3.16 | 18 2041 | 1.44 | 20 1907 | 1.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0849 | 3.84 | 19 0921 | 3.81 | 0942 | 3.54 | 1028 | 3.29 | 1018 | 3.52 | 1043 | 3.27 | 1111 | 3.35 | 1143 | 3.05 | 1204 | 3.25 | 1222 | 2.96 | 1253 | 3.40 | 1257 | 1.39 | 1354 | 3.37 | 1315 | 3.04 | 1456 | 3.43 | 21 1844 | 1.59 | 1635 | 1.23 | 20 1927 | 1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA 1457 | 0.68 | SU 1526 | 0.62 | TU 1543 | 0.66 | WE 1606 | 1.00 | 2206 | 4.39 | 2224 | 4.02 | 2237 | 4.26 | 2255 | 3.71 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2112 | 4.19 | 2147 | 4.34 | ● 2145 | 4.25 | 2228 | 4.23 | 2239 | 4.52 | 2254 | 3.91 | 2337 | 4.26 | 2355 | 3.71 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 0320 | 0.84 | 20 0409 | 0.79 | 5 0430 | 0.77 | 20 0513 | 1.07 | 5 0508 | 0.57 | 20 0520 | 1.02 | 7 0645 | 0.74 | 22 1227 | 3.09 | 8 0739 | 0.86 | 23 0704 | 1.31 | 10 0803 | 1.06 | 24 0804 | 1.47 | 12 0836 | 0.96 | 24 0754 | 1.39 | 14 1011 | 1.22 | 24 1010 | 1.43 | 16 1705 | 3.53 | 24 1552 | 3.28 | 18 2333 | 1.40 | 21 2215 | 1.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0923 | 3.77 | 2009 | 4.05 | 1025 | 3.45 | 1106 | 3.16 | 1107 | 3.50 | 1115 | 3.21 | 1204 | 3.25 | 1222 | 2.96 | 1253 | 3.40 | 1257 | 1.39 | 1354 | 3.37 | 1315 | 3.04 | 1456 | 3.43 | 21 1844 | 1.59 | 1635 | 1.23 | 20 1927 | 1.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SU 1529 | 0.69 | MO 1559 | 0.78 | WE 1623 | 0.75 | TU 1631 | 1.14 | 1623 | 0.75 | 1631 | 1.14 | 1705 | 0.65 | 1724 | 1.09 | 1826 | 1.02 | 1927 | 1.02 | 1951 | 1.23 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ● 2145 | 4.25 | 2228 | 4.23 | 2239 | 4.52 | 2254 | 3.91 | 2266 | 4.52 | 2281 | 3.91 | 2337 | 4.26 | 2355 | 3.71 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | 2337 | 4.26 | 2355 | 3.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 0358 | 0.85 | 21 0451 | 0.96 | 6 1111 | 3.35 | 21 1143 | 3.05 | 6 1158 | 3.46 | 21 1148 | 3.16 | 8 1305 | 3.18 | 21 1309 | 2.89 | 9 1354 | 3.18 | 21 1407 | 2.88 | 10 1415 | 3.18 | 21 1934 | 1.78 | 12 1529 | 3.28 | 21 2254 | 1.71 | 14 1614 | 3.48 | 21 2524 | 3.10 | 16 2226 | 1.39 | 21 2724 | 1.77 | 18 2249 | 1.62 | 20 2324 | 1.77 | 22 2041 | 1.44 | 24 2041 | 1.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0957 | 3.66 | 2105 | 3.40 | 1204 | 3.25 | 1222 | 2.96 | 1253 | 3.40 | 1257 | 1.39 | 1354 | 3.37 | 1315 | 3.04 | 1456 | 3.43 | 1426 | 3.43 | 1552 | 3.28 | 1635 | 1.23 | 1755 | 1.66 | 1831 | 0.87 | 1927 | 1.19 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MO 1602 | 0.76 | TU 1628 | 1.00 | 1706 | 0.90 | WE 1651 | 1.23 | 1705 | 0.65 | 1724 | 1.09 | 1826 | 1.02 | 1927 | 1.02 | 1951 | 1.23 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | 2041 | 1.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2222 | 4.24 | 2307 | 4.05 | 2337 | 4.26 | 2355 | 3.71 | 2366 | 4.52 | 2381 | 3.91 | 2437 | 4.26 | 2455 | 3.71 | 2466 | 4.52 | 2481 | 3.91 | 2537 | 4.26 | 2555 | 3.71 | 2566 | 4.52 | 2581 | 3.91 | 2637 | 4.26 | 2655 | 3.71 | 2666 | 4.52 | 2681 | 3.91 | 2737 | 4.26 | 2755 | 3.71 | 2766 | 4.52 | 2781 | 3.91 | 2837 | 4.26 | 2855 | 3.71 | 2866 | 4.52 | 2881 | 3.91 | 2937 | 4.26 | 2955 | 3.71 | 2966 | 4.52 | 2981 | 3.91 | 3037 | 4.26 | 3055 | 3.71 | 3066 | 4.52 | 3081 | 3.91 | 3137 | 4.26 | 3155 | 3.71 | 3166 | 4.52 | 3181 | 3.91 | 3237 | 4.26 | 3255 | 3.71 | 3266 | 4.52 | 3281 | 3.91 | 3337 | 4.26 | 3355 | 3.71 | 3366 | 4.52 | 3381 | 3.91 | 3437 | 4.26 | 3455 | 3.71 | 3466 | 4.52 | 3481 | 3.91 | 3537 | 4.26 | 3555 | 3.71 | 3566 | 4.52 | 3581 | 3.91 | 3637 | 4.26 | 3655 | 3.71 | 3666 | 4.52 | 3681 | 3.91 | 3737 | 4.26 | 3755 | 3.71 | 3766 | 4.52 | 3781 | 3.91 | 3837 | 4.26 | 3855 | 3.71 | 3866 | 4.52 | 3881 | 3.91 | 3937 | 4.26 | 3955 | 3.71 | 3966 | 4.52 | 3981 | 3.91 | 4037 | 4.26 | 4055 | 3.71 | 4066 | 4.52 | 4081 | 3.91 | 4137 | 4.26 | 4155 | 3.71 | 4166 | 4.52 | 4181 | 3.91 | 4237 | 4.26 | 4255 | 3.71 | 4266 | 4.52 | 4281 | 3.91 | 4337 | 4.26 | 4355 | 3.71 | 4366 | 4.52 | 4381 | 3.91 | 4437 | 4.26 | 4455 | 3.71 | 4466 | 4.52 | 4481 | 3.91 | 4537 | 4.26 | 4555 | 3.71 | 4566 | 4.52 | 4581 | 3.91 | 4637 | 4.26 | 4655 | 3.71 | 4666 | 4.52 | 4681 | 3.91 | 4737 | 4.26 | 4755 | 3.71 | 4766 | 4.52 | 4781 | 3.91 | 4837 | 4.26 | 4855 | 3.71 | 4866 | 4.52 | 4881 | 3.91 | 4937 | 4.26 | 4955 | 3.71 | 4966 | 4.52 | 4981 | 3.91 | 5037 | 4.26 | 5055 | 3.71 | 5066 | 4.52 | 5081 | 3.91 | 5137 | 4.26 | 5155 | 3.71 | 5166 | 4.52 | 5181 | 3.91 | 5237 | 4.26 | 5255 | 3.71 | 5266 | 4.52 | 5281 | 3.91 | 5337 | 4.26 | 5355 | 3.71 | 5366 | 4.52 | 5381 | 3.91 | 5437 | 4.26 | 5455 | 3.71 | 5466 | 4.52 | 5481 | 3.91 | 5537 | 4.26 | 5555 | 3.71 | 5566 | 4.52 | 5581 | 3.91 | 5637 | 4.26 | 5655 | 3.71 | 5666 | 4.52 |

AUSTRALIA, EAST COAST – GLADSTONE

2019

LAT 23° 50' S LONG 151° 15' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---|------------------------------|---|------------------------------|--|---------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0429 1033 SU 1639 2250 | 0.15 3.99 0.27 4.47 | 16 0414 1018 MO 1615 2226 | 0.70 3.66 0.83 3.76 | 1 0440 1054 TU 1706 2308 | 0.28 4.14 0.55 3.90 | 16 0409 1025 WE 1631 2230 | 0.71 3.87 0.92 3.45 | 1 0516 1202 FR 1826 2334 | 1.01 3.82 1.25 3.06 | 16 0444 1122 SA 1745 2334 | 0.97 3.95 1.12 3.06 | 1 0511 1221 SU 1854 | 1.32 3.69 1.39 | 16 0525 1202 MO 1831 | 1.01 4.15 1.02 |
| 2 0510 1120 MO 1724 2334 | 0.27 3.95 0.51 4.17 | 17 0441 1049 TU 1646 2254 | 0.79 3.62 0.96 3.58 | 2 0517 1141 WE 1752 2353 | 0.56 3.97 0.89 3.49 | 17 0435 1058 TH 1707 2300 | 0.85 3.79 1.07 3.25 | 2 0021 0543 SA 1255 1929 | 2.95 1.34 3.56 1.48 | 17 0522 1212 SU 1838 1944 | 1.16 3.83 1.24 1.30 | 2 0046 0546 MO 1311 1951 | 2.83 1.56 3.49 1.51 | 17 0027 0619 TU 1257 1927 | 3.19 1.19 4.04 1.08 |
| 3 0551 1207 TU 1811 | 0.51 3.82 0.84 | 18 0508 1123 WE 1719 2322 | 0.92 3.54 1.13 3.36 | 3 0553 1231 TH 1845 | 0.91 3.73 1.25 | 18 0502 1137 FR 1747 2336 | 1.03 3.68 1.24 3.03 | 3 0121 0627 SU 1400 2047 | 2.71 1.63 3.36 1.58 | 18 0030 0617 MO 1312 1944 | 2.92 1.35 3.74 1.30 | 3 0145 0652 TU 1410 2056 | 2.74 1.78 3.36 1.54 | 18 0132 0727 WE 1400 2029 | 3.15 1.35 3.93 1.11 |
| 4 0020 0632 WE 1259 1904 | 3.78 0.80 3.64 1.21 | 19 0534 1201 TH 1755 2353 | 1.09 3.44 1.33 3.12 | 4 0044 0631 FR 1328 1956 | 3.09 1.25 3.49 1.53 | 19 0532 1225 SA 1840 1954 | 1.22 3.56 1.41 1.51 | 4 0241 0823 MO 1517 2207 | 2.61 1.82 3.28 1.51 | 19 0144 0742 TU 1424 2058 | 2.86 1.48 3.72 1.25 | 4 0259 0843 WE 1514 2200 | 2.75 1.88 3.30 1.47 | 19 0246 0845 TH 1506 2136 | 3.20 1.42 3.85 1.07 |
| 5 0111 0718 TH 1401 | 3.36 1.11 3.46 | 20 0604 1248 FR 1845 2017 | 1.26 3.34 1.53 1.51 | 5 0149 0730 SA 1443 2130 | 2.77 1.55 3.32 1.60 | 20 0028 0620 SU 1328 1954 | 2.83 1.42 3.47 1.51 | 5 0414 1005 TU 1633 2313 | 2.72 1.77 3.34 1.33 | 20 0313 0912 WE 1538 2212 | 2.96 1.44 3.79 1.08 | 5 0420 1009 TH 1621 2257 | 2.90 1.81 3.31 1.34 | 20 0402 1005 FR 1612 2242 | 3.36 1.39 3.79 0.98 |
| 6 0215 0820 FR 1517 0215 | 3.01 1.36 3.36 1.59 | 21 0041 0652 SA 1353 2006 | 2.89 1.43 3.27 1.66 | 6 0319 0915 SU 1610 2259 | 2.63 1.69 3.32 1.45 | 21 0150 0756 MO 1447 0213 | 2.71 1.55 3.49 1.42 | 6 0523 1115 WE 1731 2359 | 2.97 1.60 3.46 1.14 | 21 0433 1031 TH 1645 2319 | 3.22 1.27 3.90 0.85 | 6 0522 1113 FR 1719 2343 | 3.15 1.66 3.38 1.17 | 21 0512 1120 SA 1717 2343 | 3.61 1.27 3.75 0.86 |
| 7 0340 0943 SA 1643 2324 | 2.81 1.47 3.42 1.43 | 22 0202 0824 SU 1516 02147 | 2.72 1.52 3.34 1.57 | 7 0456 1053 MO 1724 2359 | 2.76 1.60 3.46 1.22 | 22 0333 0934 TU 1608 2245 | 2.79 1.45 3.66 1.17 | 7 0611 1205 TH 1817 | 3.24 1.40 3.59 | 22 0538 1140 FR 1746 | 3.55 1.05 4.00 | 7 0607 1202 SA 1807 | 3.41 1.48 3.45 | 22 0612 1224 SU 1818 | 3.89 1.11 3.72 |
| 8 0514 1114 SU 1755 | 2.86 1.42 3.59 | 23 0347 0955 MO 1637 2311 | 2.74 1.41 3.56 1.29 | 8 0600 1200 TU 1817 | 3.03 1.40 3.63 | 23 0459 1053 WE 1717 2351 | 3.07 1.21 3.91 0.86 | 8 0036 0649 FR 1245 1855 | 0.97 3.48 1.22 3.68 | 23 0015 0632 SA 1240 1840 | 0.64 3.86 0.85 4.04 | 8 0022 0645 SU 1245 1851 | 1.01 3.67 1.30 3.51 | 23 0037 0704 MO 1321 1913 | 0.76 4.12 0.96 3.68 |
| 9 0024 0621 MO 1223 | 1.19 3.05 3.25 | 24 0517 1110 TU 1744 | 2.97 1.17 3.88 | 9 0042 0645 WE 1245 1859 | 1.01 3.28 1.20 3.78 | 24 0602 1200 TH 1815 | 3.43 0.92 4.14 | 9 0109 0722 SA 1320 1930 | 0.83 3.68 1.08 3.73 | 24 0104 0719 SU 1332 1929 | 0.47 4.12 0.69 4.02 | 9 0059 0721 MO 1327 1931 | 0.87 3.90 1.14 3.54 | 24 0125 0751 TU 1410 2003 | 0.69 4.28 0.86 3.64 |
| 10 0110 0710 TU 1311 | 0.98 3.25 1.09 | 25 0017 0621 WE 1217 | 0.95 3.29 0.88 | 10 0117 0723 TH 1321 | 0.85 3.48 1.04 | 25 0045 0653 FR 1258 | 0.56 3.75 0.66 | 10 0139 0754 SU 1354 2003 | 0.71 3.85 0.96 3.74 | 25 0147 0803 MO 1420 2015 | 0.38 4.29 0.60 3.94 | 10 0134 0757 TU 1407 2010 | 0.75 4.08 1.01 3.54 | 25 0208 0834 WE 1457 2049 | 0.67 4.37 0.80 3.59 |
| 11 0148 0749 WE 1349 | 0.83 3.40 0.96 | 26 0110 0713 TH 1316 | 0.62 3.59 0.59 | 11 0149 0755 FR 1353 2007 | 0.74 3.62 0.92 3.91 | 26 0132 0739 SA 1349 1951 | 0.33 4.01 0.46 4.34 | 11 0210 0824 MO 1429 2036 | 0.63 3.98 0.87 3.70 | 26 0228 0845 TU 1507 2100 | 0.37 4.39 0.59 3.81 | 11 0210 0833 WE 1447 2048 | 0.68 4.22 0.91 3.52 | 26 0249 0914 TH 1540 2133 | 0.70 4.38 0.81 3.52 |
| 12 0222 0823 TH 1420 | 0.74 3.51 0.86 | 27 0157 0759 FR 1406 | 0.35 3.84 0.36 | 12 0218 0825 SA 1423 2036 | 0.66 3.73 0.83 3.91 | 27 0214 0822 SU 1436 2036 | 0.19 4.21 0.35 4.29 | 12 0240 0856 TU 1505 2108 | 0.59 4.07 0.83 3.63 | 27 0307 0928 WE 1552 2145 | 0.44 4.40 0.65 3.64 | 12 0245 0910 TH 1528 2126 | 0.65 4.30 0.85 3.48 | 27 0326 0955 FR 1622 2215 | 0.78 4.32 0.87 3.44 |
| 13 0252 0854 FR 1448 | 0.69 3.57 0.80 | 28 0241 0843 SA 1453 | 0.16 4.03 0.21 | 13 0246 0853 SU 1453 2104 | 0.61 3.81 0.78 3.87 | 28 0254 0904 MO 1521 2119 | 0.15 4.33 0.34 4.15 | 13 0310 0929 WE 1541 2140 | 0.60 4.12 0.83 3.51 | 28 0344 1010 TH 1636 2229 | 0.60 4.31 0.80 3.44 | 13 0321 0948 FR 1611 2205 | 0.67 4.34 0.84 3.42 | 28 0401 1034 SA 1702 2254 | 0.91 4.19 0.99 3.33 |
| 14 0320 0922 SA 1517 | 0.67 3.62 0.76 | 29 0321 0926 SU 1538 | 0.08 4.16 0.19 | 14 0314 0922 MO 1525 2133 | 0.59 3.87 0.77 3.78 | 29 0333 0947 TU 1605 2202 | 0.22 4.35 0.45 3.92 | 14 0341 1004 MO 1525 2213 | 0.68 4.11 0.89 3.38 | 29 0418 1053 FR 1720 2313 | 0.82 4.14 0.99 3.21 | 14 0359 1028 SA 1654 2247 | 0.74 4.32 0.87 3.35 | 29 0430 1111 WE 1739 2332 | 1.07 4.03 1.13 3.20 |
| 15 0347 0950 SU 1545 | 0.67 3.65 0.77 | 30 0402 1010 MO 1622 | 0.12 4.20 0.30 | 15 0341 0952 TU 1557 2201 | 0.62 3.89 0.81 3.64 | 30 0410 1030 WE 1650 2246 | 0.41 4.26 0.67 3.61 | 15 0412 1041 FR 1700 2250 | 0.80 4.05 0.99 3.22 | 30 0447 1136 SA 1806 2358 | 1.07 3.92 1.21 3.00 | 15 0440 1113 SU 1741 2334 | 0.86 4.25 0.93 3.26 | 30 0456 1147 MO 1817 2334 | 1.23 3.86 1.28 3.26 |
| | | | | 31 | 0444 1115 TH 1736 2332 | 0.69 4.07 0.95 3.27 | | | | | 31 | 0009 0525 TU 1224 1855 | 3.10 1.41 3.69 1.41 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – PORT ALMA

2019

LAT 23° 35' S LONG 150° 52' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0613 | 4.70 | 16 | 0513 | 4.26 |
| | 1236 | 1.49 | | 1132 | 1.96 |
| TU | 1816 | 4.43 | WE | 1724 | 4.10 |
| | 2357 | 1.40 | | | |
| 2 | 0050 | 1.12 | 17 | 0609 | 4.66 |
| | 0704 | 4.93 | | 1229 | 1.65 |
| WE | 1327 | 1.37 | TH | 1821 | 4.27 |
| | 1905 | 4.41 | | | |
| 3 | 0135 | 1.07 | 18 | 0050 | 1.14 |
| | 0749 | 5.09 | | 0659 | 5.05 |
| TH | 1413 | 1.28 | FR | 1323 | 1.35 |
| | 1948 | 4.41 | | 1913 | 4.44 |
| 4 | 0213 | 1.04 | 19 | 0139 | 0.90 |
| | 0827 | 5.18 | | 0747 | 5.38 |
| FR | 1452 | 1.24 | SA | 1415 | 1.08 |
| | 2026 | 4.40 | | 2001 | 4.59 |
| 5 | 0246 | 1.04 | 20 | 0227 | 0.69 |
| | 0902 | 5.21 | | 0834 | 5.64 |
| SA | 1528 | 1.24 | SU | 1506 | 0.87 |
| | 2102 | 4.39 | | 2048 | 4.71 |
| 6 | 0315 | 1.05 | 21 | 0314 | 0.55 |
| | 0934 | 5.18 | | 0921 | 5.80 |
| SU | 1559 | 1.26 | MO | 1554 | 0.71 |
| | 2136 | 4.36 | | 2135 | 4.78 |
| 7 | 0343 | 1.09 | 22 | 0359 | 0.49 |
| | 1004 | 5.12 | | 1008 | 5.87 |
| MO | 1629 | 1.31 | TU | 1641 | 0.65 |
| | 2207 | 4.31 | | 2223 | 4.81 |
| 8 | 0410 | 1.16 | 23 | 0445 | 0.54 |
| | 1032 | 5.02 | | 1056 | 5.81 |
| TU | 1657 | 1.38 | WE | 1727 | 0.68 |
| | 2239 | 4.24 | | 2313 | 4.77 |
| 9 | 0437 | 1.26 | 24 | 0532 | 0.73 |
| | 1101 | 4.91 | | 1146 | 5.63 |
| WE | 1726 | 1.46 | TH | 1814 | 0.82 |
| | 2311 | 4.15 | | | |
| 10 | 0508 | 1.41 | 25 | 0006 | 4.67 |
| | 1134 | 4.75 | | 0621 | 1.03 |
| TH | 1759 | 1.57 | FR | 1237 | 5.34 |
| | 2348 | 4.02 | | 1904 | 1.04 |
| 11 | 0542 | 1.61 | 26 | 0103 | 4.51 |
| | 1209 | 4.56 | | 0718 | 1.41 |
| FR | 1838 | 1.71 | SA | 1330 | 4.97 |
| | | | 2000 | 1.30 | |
| 12 | 0030 | 3.88 | 27 | 0206 | 4.36 |
| | 0622 | 1.87 | | 0829 | 1.76 |
| SA | 1252 | 4.35 | SU | 1429 | 4.58 |
| | 1926 | 1.85 | | 2104 | 1.52 |
| 13 | 0125 | 3.77 | 28 | 0321 | 4.27 |
| | 0715 | 2.13 | | 0952 | 1.95 |
| SU | 1347 | 4.15 | MO | 1538 | 4.25 |
| | 2036 | 1.92 | | 2218 | 1.65 |
| 14 | 0242 | 3.76 | 29 | 0441 | 4.35 |
| | 0844 | 2.30 | | 1113 | 1.91 |
| MO | 1459 | 4.01 | TU | 1652 | 4.09 |
| | 2157 | 1.85 | | 2332 | 1.62 |
| 15 | 0404 | 3.93 | 30 | 0551 | 4.56 |
| | 1025 | 2.21 | | 1220 | 1.74 |
| TU | 1616 | 4.00 | WE | 1759 | 4.10 |
| | 2301 | 1.66 | | | |
| 31 | 0032 | 1.50 | | | |
| | 0648 | 4.80 | | | |
| TH | 1315 | 1.54 | | | |
| | 1853 | 4.20 | | | |

FEBRUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0121 | 1.37 | 16 | 0030 | 1.36 |
| | 0734 | 4.99 | | 0640 | 5.05 |
| FR | 1400 | 1.39 | SA | 1310 | 1.35 |
| | 1937 | 4.30 | | 1901 | 4.40 |
| 2 | 0201 | 1.26 | 17 | 0126 | 1.03 |
| | 0813 | 5.11 | | 0732 | 5.42 |
| SA | 1438 | 1.30 | SU | 1404 | 1.02 |
| | 2015 | 4.39 | | 1951 | 4.66 |
| 3 | 0234 | 1.19 | 18 | 0217 | 0.73 |
| | 0847 | 5.17 | | 0821 | 5.71 |
| SU | 1511 | 1.26 | MO | 1453 | 0.74 |
| | 2048 | 4.45 | | 2037 | 4.87 |
| 4 | 0304 | 1.13 | 19 | 0304 | 0.50 |
| | 0917 | 5.18 | | 0907 | 5.89 |
| MO | 1540 | 1.23 | TU | 1539 | 0.56 |
| | 2119 | 4.50 | | 2122 | 5.04 |
| 5 | 0330 | 1.10 | 20 | 0348 | 0.39 |
| | 0944 | 5.17 | | 0950 | 5.94 |
| TU | 1606 | 1.23 | WE | 1622 | 0.48 |
| | 2147 | 4.53 | | 2207 | 5.13 |
| 6 | 0355 | 1.08 | 21 | 0430 | 0.41 |
| | 1009 | 5.13 | | 1035 | 5.85 |
| WE | 1631 | 1.23 | TH | 1703 | 0.53 |
| | 2216 | 4.53 | | 2254 | 5.12 |
| 7 | 0422 | 1.12 | 22 | 0514 | 0.61 |
| | 1035 | 5.05 | | 1119 | 5.61 |
| TH | 1658 | 1.27 | FR | 1744 | 0.71 |
| | 2247 | 4.50 | | 2341 | 5.01 |
| 8 | 0451 | 1.22 | 23 | 0558 | 0.95 |
| | 1103 | 4.92 | | 1205 | 5.23 |
| FR | 1727 | 1.35 | SU | 1827 | 1.01 |
| | 2318 | 4.41 | | | |
| 9 | 0522 | 1.40 | 24 | 0032 | 4.80 |
| | 1132 | 4.72 | | 0649 | 1.39 |
| SU | 1800 | 1.49 | SU | 1252 | 4.77 |
| | 2353 | 4.29 | | 1913 | 1.38 |
| 10 | 0555 | 1.64 | 25 | 0128 | 4.53 |
| | 1204 | 4.49 | | 0753 | 1.84 |
| SU | 1836 | 1.67 | MO | 1348 | 4.29 |
| | | | | 2010 | 1.75 |
| 11 | 0035 | 4.15 | 26 | 0239 | 4.30 |
| | 0638 | 1.93 | | 0921 | 2.11 |
| MO | 1245 | 4.22 | TU | 1500 | 3.90 |
| | 1923 | 1.86 | | 2133 | 2.01 |
| 12 | 0135 | 4.03 | 27 | 0407 | 4.23 |
| | 0742 | 2.21 | | 1052 | 2.09 |
| TU | 1349 | 3.95 | WE | 1631 | 3.75 |
| | 2042 | 1.99 | | 2305 | 2.02 |
| 13 | 0305 | 4.03 | 28 | 0526 | 4.38 |
| | 0938 | 2.28 | | 1204 | 1.87 |
| WE | 1529 | 3.80 | TH | 1744 | 3.87 |
| | 2216 | 1.92 | | | |
| 14 | 0432 | 4.25 | | | |
| | 1103 | 2.05 | | | |
| TH | 1658 | 3.89 | | | |
| | 2327 | 1.68 | | | |
| 15 | 0543 | 4.63 | | | |
| | 1209 | 1.71 | | | |
| FR | 1805 | 4.13 | | | |

MARCH

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0014 | 1.83 | 16 | 0519 | 4.66 |
| | 0626 | 4.63 | | 1154 | 1.63 |
| FR | 1257 | 1.62 | SA | 1753 | 4.10 |
| | 1839 | 4.09 | | | |
| 2 | 0104 | 1.61 | 17 | 0014 | 1.49 |
| | 0712 | 4.85 | | 0622 | 5.06 |
| SA | 1339 | 1.42 | SU | 1255 | 1.24 |
| | 1921 | 4.30 | | 1850 | 4.46 |
| 3 | 0144 | 1.43 | 18 | 0113 | 1.10 |
| | 0750 | 5.00 | | 0716 | 5.41 |
| SU | 1415 | 1.30 | MO | 1349 | 0.89 |
| | 1957 | 4.46 | | 1939 | 4.79 |
| 4 | 0217 | 1.28 | 19 | 0204 | 0.76 |
| | 0823 | 5.09 | | 0803 | 5.66 |
| MO | 1445 | 1.22 | TU | 1435 | 0.62 |
| | 2029 | 4.58 | | 2023 | 5.05 |
| 5 | 0246 | 1.18 | 20 | 0250 | 0.53 |
| | 0852 | 5.13 | | 0846 | 5.78 |
| TU | 1512 | 1.16 | WE | 1517 | 0.46 |
| | 2058 | 4.68 | | 2105 | 5.24 |
| 6 | 0311 | 1.09 | 21 | 0332 | 0.42 |
| | 0917 | 5.14 | | 0926 | 5.78 |
| WE | 1538 | 1.11 | TH | 1557 | 0.41 |
| | 2125 | 4.75 | | 2147 | 5.35 |
| 7 | 0336 | 1.05 | 22 | 0413 | 0.45 |
| | 0942 | 5.12 | | 1007 | 5.64 |
| TH | 1603 | 1.08 | FR | 1634 | 0.49 |
| | 2153 | 4.80 | | 2230 | 5.35 |
| 8 | 0403 | 1.05 | 23 | 0453 | 0.65 |
| | 1007 | 5.05 | | 1048 | 5.35 |
| FR | 1630 | 1.09 | SU | 1711 | 0.71 |
| | 2222 | 4.80 | | 2315 | 5.22 |
| 9 | 0432 | 1.12 | 24 | 0535 | 1.00 |
| | 1032 | 4.91 | | 1130 | 4.94 |
| SU | 1658 | 1.17 | SU | 1748 | 1.04 |
| | 2251 | 4.75 | | | |
| 10 | 0501 | 1.28 | 25 | 0000 | 4.97 |
| | 1100 | 4.72 | | 0621 | 1.43 |
| SU | 1727 | 1.32 | MO | 1215 | 4.46 |
| | 2323 | 4.65 | | 1824 | 1.46 |
| 11 | 0534 | 1.50 | 26 | 0051 | 4.65 |
| | 1130 | 4.47 | | 0718 | 1.87 |
| MO | 1758 | 1.53 | TU | 1306 | 3.99 |
| | | | | 1904 | 1.89 |
| 12 | 0002 | 4.50 | 27 | 0154 | 4.33 |
| | 0614 | 1.78 | | 0848 | 2.16 |
| TU | 1209 | 4.18 | WE | 1419 | 3.61 |
| | 1835 | 1.77 | | 2024 | 2.25 |
| 13 | 0055 | 4.32 | 28 | 0324 | 4.14 |
| | 0712 | 2.08 | | 1023 | 2.16 |
| WE | 1306 | 3.85 | TH | 1607 | 3.51 |
| | 1938 | 2.03 | | 2229 | 2.32 |
| 14 | 0223 | 4.21 | 29 | 0451 | 4.21 |
| | 0907 | 2.21 | | 1136 | 1.93 |
| TH | 1500 | 3.64 | FR | 1724 | 3.72 |
| | 2139 | 2.09 | | 2347 | 2.10 |
| 15 | 0400 | 4.33 | 30 | 0553 | 4.42 |
| | 1041 | 2.00 | | 1228 | 1.67 |
| FR | 1641 | 3.78 | SU | 1817 | 4.01 |
| | 2304 | 1.85 | | | |
| 31 | 0038 | 1.83 | | | |
| | 0640 | 4.64 | | | |
| SU | 1309 | 1.46 | | | |
| | 1857 | 4.28 | | | |

APRIL

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 1 | 0116 | 1.59 | 16 | 0057 | 1.13 |
| | 0718 | 4.81 | | 0653 | 5.30 |
| MO | 1342 | 1.30 | | | |

AUSTRALIA, EAST COAST – PORT ALMA

LAT 23° 35' S LONG 150° 52' E

Times and Heights of High and Low Waters

2019

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – PORT ALMA

2019

LAT 23° 35' S LONG 150° 52' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|---------------------|--------------|---------------------|---------------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0440 0.27 | 16 0416 0.91 | 0416 0.40 | 16 0413 0.90 | 1 0532 1.24 | 16 0453 1.23 | 0541 1.62 | 16 0539 1.29 |
| 1030 4.95 | 1011 4.58 | 1054 5.13 | 1014 4.78 | 1209 4.74 | 1113 4.83 | 1231 4.58 | 1207 5.05 | 1231 4.58 | 1207 5.05 | 1231 4.58 | 1207 5.05 | 1231 4.58 | 1207 5.05 | 1231 4.58 | 1207 5.05 |
| SU 1652 0.41 | MO 1620 1.06 | TU 1716 0.76 | WE 1630 1.20 | FR 1841 1.60 | SA 1741 1.49 | SU 1910 1.76 | MO 1841 1.36 |
| 2253 5.52 | 2220 4.70 | 2308 4.87 | 2218 4.35 | 2354 4.38 | 2249 4.11 | 2322 3.84 | | 2322 3.84 | | 2322 3.84 | | 2322 3.84 | | 2322 3.84 | |
| 2 0521 0.41 | 17 0442 0.99 | 0528 0.72 | 17 0440 1.07 | 2 0017 3.73 | 17 0534 1.49 | 0041 3.57 | 17 0026 3.95 | 0620 1.95 | 17 0638 1.52 | 0924 2.32 | 19 0258 3.98 | 0322 3.43 | 19 0258 3.98 | 0924 2.32 | 19 0258 3.98 |
| 1119 4.90 | 1040 4.52 | 1143 4.93 | 1045 4.69 | 0610 1.67 | 1209 4.67 | 0620 1.95 | 17 0638 1.52 | 1324 4.33 | TU 1311 4.94 | 1521 4.77 | 0916 1.74 | 0916 1.74 | 1521 4.77 | 0916 1.74 | 0916 1.74 |
| MO 1737 0.69 | TU 1649 1.21 | WE 1805 1.17 | TH 1703 1.38 | SA 1308 4.42 | SU 1843 1.66 | 1324 4.33 | TU 1311 4.94 | 1441 4.58 | 2125 1.92 | 2230 1.81 | 2204 1.28 | 1441 4.58 | 2125 1.92 | 2230 1.81 | 2204 1.28 |
| 2338 5.16 | 2245 4.48 | 2354 4.38 | 2249 4.11 | 1954 1.87 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | |
| 3 0604 0.67 | 18 0510 1.14 | 0608 1.14 | 18 0509 1.29 | 3 0123 3.40 | 18 0025 3.62 | 0147 3.41 | 18 0141 3.90 | 0730 2.23 | 18 0754 1.69 | 0730 2.23 | 18 0754 1.69 | 0147 3.41 | 18 0141 3.90 | 0730 2.23 | 18 0141 3.90 |
| 1211 4.76 | 1110 4.42 | 1238 4.65 | 1122 4.54 | 0709 2.07 | 0636 1.76 | 0730 2.23 | 18 0754 1.69 | 1324 4.33 | TU 1416 4.85 | 2125 1.92 | 2055 1.38 | 0730 2.23 | 18 0754 1.69 | 2125 1.92 | 2055 1.38 |
| TU 1826 1.09 | WE 1720 1.42 | TH 1904 1.59 | FR 1743 1.61 | SU 1417 4.18 | MO 1324 4.56 | 1427 4.15 | WE 1416 4.85 | 1441 4.58 | 2125 1.92 | 2230 1.81 | 2204 1.28 | 1427 4.15 | WE 1416 4.85 | 2125 1.92 | 2230 1.81 |
| 2312 4.22 | 2343 3.92 | 2325 3.83 | | 2118 1.94 | 2005 1.71 | | | 2118 1.94 | | | | 2118 1.94 | | | |
| 4 0027 4.70 | 19 0539 1.36 | 0048 3.88 | 19 0543 1.56 | 4 0300 3.28 | 19 0158 3.54 | 0322 3.43 | 19 0258 3.98 | 1043 2.20 | 20 1034 1.65 | 1043 2.20 | 20 1034 1.65 | 0924 2.32 | 19 0916 1.74 | 1043 2.20 | 20 1034 1.65 |
| 0650 1.02 | 1146 4.27 | 0656 1.59 | 1212 4.36 | 0911 2.26 | 0815 1.91 | 1645 4.13 | WE 1521 4.77 | 1540 4.10 | TU 1441 4.58 | 2125 1.92 | 2230 1.81 | 1540 4.10 | WE 1521 4.77 | 2125 1.92 | 2230 1.81 |
| WE 1309 4.54 | TH 1757 1.69 | FR 1342 4.35 | SA 1838 1.85 | 2027 1.90 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | | 2126 1.57 | |
| 1928 1.53 | 2343 3.92 | | | | | | | | | | | | | | |
| 5 0123 4.20 | 20 0611 1.61 | 0201 3.47 | 20 0018 3.52 | 5 0432 3.47 | 20 0330 3.70 | 0441 3.65 | 20 0413 4.20 | 1043 2.20 | 20 1034 1.65 | 1043 2.20 | 20 1034 1.65 | 0924 2.32 | 19 0916 1.74 | 1043 2.20 | 20 1034 1.65 |
| 0747 1.40 | 1233 4.11 | 0817 1.97 | 0633 1.86 | 1042 2.14 | 0945 1.79 | 1645 4.13 | FR 1627 4.73 | 1540 4.10 | TU 1441 4.58 | 2125 1.92 | 2230 1.81 | 1540 4.10 | WE 1521 4.77 | 2125 1.92 | 2230 1.81 |
| TU 1415 4.33 | FR 1846 1.97 | 2201 1.92 | 1332 4.22 | 2333 1.59 | 2237 1.30 | 2322 1.62 | 2309 1.14 | | | | | | | | |
| 2051 1.84 | | | | | | | | | | | | | | | |
| 6 0233 3.77 | 21 0029 3.59 | 0343 3.34 | 21 0206 3.32 | 6 0530 3.79 | 21 0444 4.05 | 0534 3.95 | 21 0522 4.51 | 1139 1.99 | 21 1143 1.48 | 1139 1.99 | 21 1143 1.48 | 0730 2.23 | 21 0522 4.51 | 1139 1.99 | 21 1143 1.48 |
| 0903 1.70 | 0700 1.88 | 1005 2.07 | 0834 2.03 | 1142 1.90 | 1100 1.53 | 1736 4.22 | SA 1729 4.69 | 1502 4.16 | SU 1332 4.22 | 2340 1.00 | | | | | |
| FR 1536 4.22 | SA 1353 3.99 | SU 1628 4.19 | MO 1505 4.28 | 2152 1.80 | | | | 2319 1.71 | | | | | | | |
| ○ 2223 1.88 | 2026 2.17 | | | | | | | | | | | | | | |
| 7 0403 3.56 | 22 0210 3.31 | 0508 3.55 | 22 0357 3.49 | 7 0016 1.37 | 22 0546 4.45 | 0005 1.42 | 22 0009 0.98 | 0615 4.26 | 22 0621 4.82 | 0615 4.26 | 22 0621 4.82 | 0725 4.79 | 23 0714 5.09 | 0615 4.26 | 22 0621 4.82 |
| 1032 1.78 | 0900 2.01 | 1126 1.88 | 1011 1.84 | 0614 4.10 | 1204 1.24 | 1223 1.66 | FR 1627 4.73 | 1734 4.37 | TU 1623 4.53 | 2306 1.44 | | | | | |
| SA 1658 4.31 | SU 1531 4.08 | 1221 1.62 | WE 1728 4.86 | 1623 4.53 | 1755 4.99 | 1824 4.50 | | 1904 4.73 | 1823 5.14 | | | | | | |
| 2342 1.66 | ○ 2216 1.98 | 1824 4.57 | | | | | | | | | | | | | |
| 8 0524 3.66 | 23 0416 3.41 | 0014 1.43 | 23 0510 3.88 | 8 0052 1.18 | 23 0034 0.74 | 0043 1.22 | 23 0101 0.86 | 0652 4.54 | 23 0714 5.09 | 0652 4.54 | 23 0714 5.09 | 1302 1.59 | 23 1338 1.15 | 0652 4.54 | 23 0714 5.09 |
| 1149 1.64 | 1035 1.81 | 0603 3.86 | 1124 1.48 | 1302 1.47 | 1259 1.01 | 1855 4.38 | 1916 4.62 | 1904 4.73 | 1823 5.14 | 1847 5.05 | | | | | |
| SU 1805 4.53 | MO 1651 4.39 | MO 1651 4.39 | WE 1728 4.86 | 1900 4.60 | 1847 5.05 | | | | | | | | | | |
| 2329 1.60 | 2349 1.60 | | | | | | | | | | | | | | |
| 9 0040 1.38 | 24 0529 3.76 | 0057 1.21 | 24 0007 1.03 | 9 0123 1.02 | 24 0122 0.57 | 0117 1.06 | 24 0147 0.80 | 0725 4.79 | 24 0801 5.27 | 0725 4.79 | 24 0801 5.27 | 0944 5.27 | 24 1039 5.18 | 0725 4.79 | 24 0801 5.27 |
| 0623 3.89 | 1143 1.45 | 0645 4.15 | 0607 4.32 | 0723 4.59 | 0725 5.10 | 1223 1.78 | SA 1245 1.30 | 1302 1.40 | 1223 1.78 | 1818 4.32 | 1826 4.66 | | | | |
| MO 1245 1.42 | TU 1755 4.79 | WE 1302 1.40 | TH 1225 1.11 | 1336 1.32 | SU 1349 0.85 | 1339 1.43 | TU 1427 1.07 | 1904 4.73 | 1336 1.32 | 1932 5.02 | | | | | |
| 1856 4.75 | | 1904 4.73 | 1823 5.14 | 1932 4.65 | | | | | | | | | | | |
| 10 0125 1.16 | 25 0030 1.17 | 0131 1.05 | 25 0100 0.68 | 10 0153 0.90 | 25 0204 0.48 | 0151 0.94 | 25 0228 0.79 | 0758 4.99 | 25 0843 5.37 | 0758 4.99 | 25 0843 5.37 | 1043 2.20 | 25 1034 1.04 | 0758 4.99 | 25 0843 5.37 |
| 0708 4.11 | 0625 4.16 | 0720 4.37 | 0656 4.70 | 1047 4.77 | 0808 5.30 | 1415 1.30 | WE 1511 1.04 | 1407 1.22 | MO 1435 0.78 | 2005 4.43 | 2044 4.51 | | | | |
| TU 1329 1.25 | WE 1243 1.07 | 1337 1.24 | FR 1318 0.80 | 1407 1.22 | MO 1435 0.78 | 1511 1.30 | WE 1511 1.04 | 1938 4.82 | 2001 4.66 | 2055 4.79 | | | | | |
| 1936 4.89 | 1848 5.17 | 2035 4.86 | 2036 5.34 | 2030 4.62 | 2055 4.79 | | | | | | | | | | |
| 11 0203 1.03 | 26 0123 0.78 | 0201 0.95 | 26 0146 0.43 | 11 0222 0.82 | 26 0243 0.47 | 0224 0.86 | 26 0305 0.82 | 0832 5.14 | 26 0922 5.39 | 0832 5.14 | 26 0922 5.39 | 1453 1.21 | 26 1552 1.06 | 0832 5.14 | 26 0922 5.39 |
| 0744 4.27 | 0713 4.52 | 0751 4.53 | 0741 5.00 | 0823 4.91 | 0849 5.41 | 1453 1.21 | TH 1552 1.06 | 1408 1.13 | MO 1438 1.15 | 2040 4.41 | 2125 4.43 | | | | |
| WE 1404 1.13 | TH 1336 0.72 | 1408 1.13 | SA 1406 0.59 | 1438 1.15 | TU 1519 0.80 | 1552 4.43 | WE 1552 1.06 | 1936 5.46 | 1438 1.15 | 2055 4.79 | | | | | |
| 2011 4.97 | 1936 5.46 | 2008 4.86 | 1955 5.39 | 2030 4.62 | 2055 4.79 | | | | | | | | | | |
| 12 0235 0.96 | 27 0210 0.47 | 0229 0.87 | 27 0228 0.28 | 12 0250 0.78 | 27 0319 0.55 | 0259 0.83 | 27 0340 0.90 | 0907 5.24 | 27 1001 5.32 | 0907 5.24 | 27 1001 5.32 | 1531 1.15 | FR 1631 1.14 | 0907 5.24 | 27 1001 5.32 |
| 0817 4.39 | 0758 4.81 | 0821 4.65 | 0822 5.22 | 0853 5.00 | 0931 5.42 | 1531 1.15 | FR 1631 1.14 | 1423 0.46 | SA 1408 1.06 | 2116 4.37 | 2205 4.43 | | | | |
| TH 1435 1.05 | FR 1423 0.46 | 1436 1.06 | SA 1450 0.49 | 1436 1.06 | SA 1450 0.49 | 1531 1.15 | FR 1631 1.14 | 2041 4.99 | 1436 1.06 | 2116 4.37 | 2205 4.43 | | | | |
| 2041 4.99 | 2020 5.62 | 2035 4.86 | 2036 5.34 | 2035 4.86 | 2036 5.34 | | | | | | | | | | |
| 13 0302 0.93 | 28 0253 0.27 | 0254 0.82 | 28 0307 0.25 | 13 0319 0.79 | 28 0355 0.72 | 0334 0.85 | 28 0415 1.05 | 0944 5.27 | 28 1039 5.18 | 0944 5.27 | 28 1039 5.18 | 1611 1.15 | SA 1709 1.27 | 0944 5.27 | 28 1039 5.18 |
| 0847 4.48 | 0841 5.03 | 0848 4.75 | 0803 5.35 | 0923 5.05 | 1013 5.32 | 1611 1.15 | FR 1627 4.73 | 1502 1.02 | MO 1532 0.51 | 2154 4.30 | 2244 4.20 | | | | |
| FR 1502 1.00 | SA 1507 0.32 | 1502 1.02 | MO 1532 0.51 | 150 | | | | | | | | | | | |

AUSTRALIA, EAST COAST – ROSSLYN BAY

2019

LAT 23° 10' S LONG 150° 48' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | | | |
|-----------|------|------|-----------|--------|------|--------|-----------|------|--------|-----------|------|------|-----------|-----------|--------|--------|-----------|--------|--------|--------|------|
| 1 | 0611 | 3.97 | 16 | 0505 | 3.64 | | 1 | 0103 | 1.16 | 16 | 0004 | 1.11 | | 1 | 0623 | 3.96 | 16 | 0506 | 3.99 | | |
| | 1225 | 1.32 | | 1117 | 1.66 | | 1 | 0725 | 4.27 | 16 | 0629 | 4.35 | | 1 | 1257 | 1.38 | 16 | 1147 | 1.40 | | |
| TU | 1805 | 3.67 | WE | 1703 | 3.47 | FR | 1356 | 1.19 | SA | 1302 | 1.15 | FR | 1838 | 3.38 | SA | 1741 | 3.40 | FR | 2350 | 1.24 | |
| | | | | 2334 | 1.12 | | 1930 | 3.55 | | 1847 | 3.66 | | | | | | | | | | |
| 2 | 0031 | 0.94 | 17 | 0600 | 3.99 | | 2 | 0142 | 1.05 | 17 | 0100 | 0.83 | | 2 | 0050 | 1.38 | 17 | 0609 | 4.35 | | |
| | 0658 | 4.19 | | 1218 | 1.41 | | 2 | 0801 | 4.39 | 17 | 0718 | 4.69 | | 2 | 0705 | 4.15 | 17 | 1247 | 1.04 | | |
| WE | 1320 | 1.20 | TH | 1802 | 3.57 | SA | 1434 | 1.09 | SU | 1355 | 0.84 | SA | 1337 | 1.20 | SU | 1838 | 3.71 | SA | 1918 | 3.56 | |
| | 1856 | 3.65 | | | | 2008 | 3.63 | | 1937 | 3.89 | | | | | | | | | | | |
| 3 | 0115 | 0.88 | 18 | 0025 | 0.90 | | 3 | 0216 | 0.97 | 18 | 0151 | 0.57 | | 3 | 0128 | 1.21 | 18 | 0049 | 0.92 | | |
| | 0739 | 4.35 | | 0648 | 4.34 | | 3 | 0834 | 4.46 | 18 | 0804 | 4.96 | | 3 | 0740 | 4.29 | 18 | 0700 | 4.67 | | |
| TH | 1406 | 1.10 | FR | 1313 | 1.14 | SU | 1507 | 1.02 | MO | 1443 | 0.60 | SU | 1410 | 1.07 | MO | 1337 | 0.74 | SU | 1952 | 3.71 | |
| | 1940 | 3.64 | | 1857 | 3.70 | 2043 | 3.70 | | 2025 | 4.08 | | | | | | | | | | | |
| 4 | 0153 | 0.84 | 19 | 0114 | 0.68 | | 4 | 0246 | 0.91 | 19 | 0241 | 0.37 | | 4 | 0201 | 1.07 | 19 | 0140 | 0.63 | | |
| | 0816 | 4.44 | | 0734 | 4.66 | | 4 | 0906 | 4.49 | 19 | 0851 | 5.13 | | 4 | 0813 | 4.39 | 19 | 0747 | 4.89 | | |
| FR | 1447 | 1.04 | SU | 1406 | 0.89 | MO | 1536 | 0.98 | TU | 1529 | 0.43 | MO | 1440 | 0.98 | TU | 1422 | 0.50 | MO | 2024 | 3.83 | |
| | 2020 | 3.63 | | 1947 | 3.83 | 2116 | 3.75 | | 2113 | 4.23 | | | | | | | | | | | |
| 5 | 0227 | 0.83 | 20 | 0202 | 0.50 | | 5 | 0314 | 0.87 | 20 | 0328 | 0.28 | | 5 | 0229 | 0.96 | 20 | 0228 | 0.43 | | |
| | 0851 | 4.49 | | 0819 | 4.91 | | 5 | 0937 | 4.49 | 20 | 0937 | 5.16 | | 5 | 0843 | 4.44 | 20 | 0831 | 5.00 | | |
| SU | 1524 | 1.01 | SU | 1457 | 0.69 | TU | 1605 | 0.97 | WE | 1613 | 0.37 | TU | 1508 | 0.91 | WE | 1505 | 0.35 | SU | 2055 | 3.93 | |
| | 2057 | 3.62 | | 2037 | 3.94 | ● 2147 | 3.77 | | ○ 2201 | 4.30 | | | | | | | | | | | |
| 6 | 0258 | 0.83 | 21 | 0251 | 0.37 | | 6 | 0343 | 0.87 | 21 | 0414 | 0.33 | | 6 | 0258 | 0.88 | 21 | 0314 | 0.34 | | |
| | 0924 | 4.48 | | 0906 | 5.08 | | 6 | 1006 | 4.44 | 21 | 1023 | 5.05 | | 6 | 0912 | 4.45 | 21 | 0915 | 4.97 | | |
| SU | 1557 | 1.01 | MO | 1547 | 0.54 | WE | 1633 | 0.99 | TH | 1656 | 0.42 | WE | 1535 | 0.87 | TH | 1546 | 0.32 | SU | 2125 | 3.99 | |
| | 2132 | 3.59 | | 2127 | 4.00 | 2218 | 3.77 | | 2249 | 4.28 | | | | | | | | | | | |
| 7 | 0327 | 0.87 | 22 | 0338 | 0.33 | | 7 | 0410 | 0.92 | 22 | 0500 | 0.52 | | 7 | 0325 | 0.85 | 22 | 0359 | 0.40 | | |
| | 0957 | 4.43 | | 0954 | 5.12 | | 7 | 1035 | 4.34 | 22 | 1108 | 4.79 | | 7 | 0940 | 4.42 | 22 | 0959 | 4.81 | | |
| MO | 1629 | 1.05 | TU | 1635 | 0.49 | TH | 1701 | 1.05 | FR | 1737 | 0.59 | TH | 1602 | 0.87 | FR | 1625 | 0.41 | MO | 2154 | 4.02 | |
| | 2206 | 3.55 | | 2217 | 4.02 | 2247 | 3.73 | | 2336 | 4.18 | | | | | | | | | | | |
| 8 | 0357 | 0.93 | 23 | 0426 | 0.40 | | 8 | 0438 | 1.03 | 23 | 0546 | 0.83 | | 8 | 0352 | 0.87 | 23 | 0444 | 0.58 | | |
| | 1029 | 4.34 | | 1043 | 5.05 | | 8 | 1101 | 4.21 | 23 | 1153 | 4.42 | | 8 | 1006 | 4.32 | 23 | 1041 | 4.51 | | |
| TU | 1701 | 1.11 | WE | 1722 | 0.53 | FR | 1729 | 1.13 | SA | 1818 | 0.85 | FR | 1627 | 0.91 | SA | 1701 | 0.61 | MO | 2223 | 4.02 | |
| | 2239 | 3.49 | | 2308 | 3.97 | 2318 | 3.67 | | | | | | 2233 | 4.02 | 2310 | 4.39 | | MO | 2303 | 4.18 | |
| 9 | 0425 | 1.04 | 24 | 0515 | 0.59 | | 9 | 0508 | 1.19 | 24 | 0024 | 4.01 | | 9 | 0421 | 0.96 | 24 | 0528 | 0.88 | | |
| | 1101 | 4.22 | | 1132 | 4.85 | | 9 | 1130 | 4.03 | 24 | 0638 | 1.21 | | 9 | 1030 | 4.18 | 24 | 1122 | 4.12 | | |
| WE | 1733 | 1.19 | TH | 1808 | 0.66 | SU | 1759 | 1.24 | SU | 1240 | 4.00 | SU | 1651 | 0.98 | SU | 1736 | 0.90 | SU | 2251 | 3.98 | |
| | 2313 | 3.41 | | 2359 | 3.87 | 2353 | 3.59 | | 1902 | 1.16 | | | | | | | | | | | |
| 10 | 0456 | 1.18 | 25 | 0605 | 0.87 | | 10 | 0544 | 1.41 | 25 | 0120 | 3.81 | | 10 | 0449 | 1.10 | 25 | 0616 | 1.24 | | |
| | 1134 | 4.07 | | 1222 | 4.55 | | 10 | 1203 | 3.83 | 25 | 0742 | 1.58 | | 10 | 1055 | 4.00 | 25 | 1207 | 3.70 | | |
| TH | 1808 | 1.30 | FR | 1855 | 0.86 | SU | 1835 | 1.37 | MO | 1336 | 3.57 | SU | 1716 | 1.09 | MO | 1814 | 1.24 | SU | 2323 | 3.92 | |
| | 2350 | 3.32 | | | | 1957 | 1.46 | | | | | | | | | | | | | | |
| 11 | 0532 | 1.37 | 26 | 0054 | 3.74 | | 11 | 0038 | 3.50 | 26 | 0230 | 3.63 | | 11 | 0524 | 1.29 | 26 | 0045 | 3.94 | | |
| | 1211 | 3.90 | | 0702 | 1.20 | | 11 | 0632 | 1.64 | 26 | 0908 | 1.82 | | 11 | 1124 | 3.78 | 26 | 0716 | 1.59 | | |
| FR | 1847 | 1.40 | SU | 1315 | 4.19 | MO | 1247 | 3.60 | TU | 1448 | 3.23 | MO | 1747 | 1.24 | TU | 1300 | 3.29 | FR | 1512 | 2.81 | |
| | 1947 | 1.08 | | | | 1923 | 1.49 | | ● 2114 | 1.67 | | | | | | | | | 1908 | 1.58 | |
| 12 | 0035 | 3.23 | 27 | 0158 | 3.62 | | 12 | 0137 | 3.44 | 27 | 0401 | 3.59 | | 12 | 0003 | 3.82 | 27 | 0149 | 3.69 | | |
| | 0617 | 1.60 | | 0813 | 1.51 | | 12 | 0745 | 1.85 | 27 | 1044 | 1.81 | | 12 | 0608 | 1.51 | 27 | 0838 | 1.82 | | |
| SA | 1254 | 3.73 | SU | 1414 | 3.83 | TU | 1349 | 3.39 | WE | 1621 | 3.10 | TU | 1205 | 3.53 | WE | 1415 | 2.98 | FR | 1434 | 3.01 | |
| | 1935 | 1.49 | | 2048 | 1.27 | 2029 | 1.56 | | 2241 | 1.70 | | 1829 | 1.42 | | 2021 | 1.88 | | ● 2046 | 1.69 | ● 2239 | 1.92 |
| 13 | 0132 | 3.17 | 28 | 0314 | 3.57 | | 13 | 0255 | 3.47 | 28 | 0525 | 3.74 | | 13 | 0058 | 3.71 | 28 | 0312 | 3.54 | | |
| | 0721 | 1.80 | | 0938 | 1.69 | | 13 | 0917 | 1.90 | 28 | 1204 | 1.61 | | 13 | 0714 | 1.74 | 28 | 1015 | 1.83 | | |
| SU | 1347 | 3.56 | MO | 1523 | 3.54 | WE | 1509 | 3.25 | TH | 1743 | 3.19 | WE | 1309 | 3.27 | TH | 1557 | 2.90 | SA | 1616 | 3.15 | |
| | 2033 | 1.52 | | ● 2158 | 1.38 | ● 2145 | 1.53 | | 2357 | 1.57 | | 1935 | 1.60 | | ● 2205 | 1.94 | | ● 2221 | 1.56 | ● 2339 | 1.70 |
| 14 | 0243 | 3.20 | 29 | 0440 | 3.67 | | 14 | 0418 | 3.65 | | | | | 14 | 0213 | 3.64 | 29 | 0444 | 3.60 | | |
| | 0845 | 1.91 | | 1103 | 1.68 | | 14 | 1045 | 1.76 | | | | | 14 | 0848 | 1.84 | 29 | 1137 | 1.63 | | |
| MO | 1451 | 3.45 | TU | 1642 | 3.39 | TH | 1633 | 3.28 | | | | | 14 | 1441 | 3.09 | FR | 1726 | 3.08 | TH | 1441 | 3.09 |
| | 2136 | 1.46 | | 2310 | 1.37 | 2259 | 1.37 | | | | | | 14 | 2107 | 1.67 | ● 2329 | 1.78 | | ● 2107 | 1.67 | |
| 15 | 0357 | 3.36 | 30 | 0551 | 3.88 | | 15 | 0532 | 3.97 | | | | | 15 | 0343 | 3.72 | 30 | 0548 | 3.79 | | |
| | 1006 | 1.85 | | 1217 | 1.52 | | 15 | 1200 | 1.47 | | | | | 15 | 1025 | 1.71 | 30 | 1228 | 1.40 | | |
| TU | 1559 | 3.42 | WE | 1752 | 3.39 | FR | 1748 | 3.44 | | | | | 15 | 1621 | 3.15 | SA | 1819 | 3.33 | FR | 2236 | 1.53 |
| | 2237 | 1.32 | | | | | | | | | | | | | | | | | | | |
| 31 | 0013 | 1.28 | | 0644 | 4.10 | | | | | | | | 31 | 0024 | 1.55 | | | | | | |
| | | | | TH | 1312 | 1.34 | | | | | | | 31 | 0633 | 3.98 | | | | | | |
| | | | | | 1847 | 3.46 | | | | | | | 31 | 1306 | 1.20 | | | | | | |
| | | | | | | | | | | | | | 31 | 1856 | 3.57 | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols</p

AUSTRALIA, EAST COAST – ROSSLYN BAY

2019

LAT 23° 10' S LONG 150° 48' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--|--|--|--|
| Time | m | | | | |
| 1 0059 | 1.28 | 16 0111 | 0.86 | 1 0140 | 1.09 | 16 0239 | 0.87 | 1 0201 | 0.97 | 16 0312 | 0.87 | 1 0322 | 0.47 | 16 0353 | 0.77 | 1 0322 | 0.47 | 16 0353 | 0.77 | 1 0322 | 0.47 | 16 0353 | 0.77 | 1 0322 | 0.47 | 16 0353 | 0.77 | | | | |
| 0702 | 4.02 | 16 0702 | 4.31 | 0729 | 3.81 | 16 0814 | 3.73 | 0741 | 3.62 | 16 0843 | 3.50 | 0901 | 3.80 | 16 0934 | 3.61 | 0901 | 3.80 | 16 0934 | 3.61 | 0901 | 3.80 | 16 0934 | 3.61 | 0901 | 3.80 | 16 0934 | 3.61 | | | | |
| WE 1324 | 0.91 | TH 1330 | 0.51 | SA 1346 | 0.68 | SU 1425 | 0.64 | MO 1355 | 0.57 | TU 1448 | 0.77 | MO 1513 | 0.27 | FR 1533 | 0.75 | MO 1513 | 0.27 | FR 1533 | 0.75 | MO 1513 | 0.27 | FR 1533 | 0.75 | MO 1513 | 0.27 | FR 1533 | 0.75 | | | | |
| 1928 | 3.95 | 1940 | 4.38 | 2001 | 4.32 | 2049 | 4.52 | 2015 | 4.57 | 2111 | 4.43 | ● 2129 | 4.96 | 2153 | 4.30 | ● 2129 | 4.96 | 2153 | 4.30 | ● 2129 | 4.96 | 2153 | 4.30 | ● 2129 | 4.96 | 2153 | 4.30 | | | | |
| 2 0134 | 1.12 | 17 0201 | 0.75 | 2 0220 | 0.97 | 17 0324 | 0.86 | 2 0248 | 0.81 | 17 0348 | 0.86 | 2 0409 | 0.36 | 17 0421 | 0.79 | 2 0409 | 0.36 | 17 0421 | 0.79 | 2 0409 | 0.36 | 17 0421 | 0.79 | 2 0409 | 0.36 | 17 0421 | 0.79 | | | | |
| 0735 | 4.07 | 17 0747 | 4.25 | 0806 | 3.80 | 17 0856 | 3.63 | 0827 | 3.67 | 17 0921 | 3.48 | 0952 | 3.86 | 17 1006 | 3.61 | 0952 | 3.86 | 17 1006 | 3.61 | 0952 | 3.86 | 17 1006 | 3.61 | 0952 | 3.86 | 17 1006 | 3.61 | | | | |
| TH 1354 | 0.79 | FR 1410 | 0.47 | SU 1420 | 0.60 | MO 1501 | 0.70 | 1438 | 0.48 | WE 1519 | 0.79 | 1602 | 0.27 | SA 1601 | 0.80 | 1602 | 0.27 | SA 1601 | 0.80 | 1602 | 0.27 | SA 1601 | 0.80 | 1602 | 0.27 | SA 1601 | 0.80 | | | | |
| 1959 | 4.13 | 2022 | 4.53 | 2036 | 4.48 | ● 2128 | 4.50 | 2058 | 4.73 | ● 2145 | 4.38 | 2217 | 4.94 | 2222 | 4.19 | 2217 | 4.94 | 2222 | 4.19 | 2217 | 4.94 | 2222 | 4.19 | 2217 | 4.94 | 2222 | 4.19 | | | | |
| 3 0208 | 1.01 | 18 0248 | 0.71 | 3 0300 | 0.88 | 18 0404 | 0.89 | 3 0336 | 0.68 | 18 0421 | 0.88 | 3 0456 | 0.33 | 18 0448 | 0.84 | 3 1042 | 3.88 | 18 1037 | 3.58 | 3 1042 | 3.88 | 18 1037 | 3.58 | 3 1042 | 3.88 | 18 1037 | 3.58 | | | | |
| 0806 | 4.07 | 18 0829 | 4.13 | 0844 | 3.76 | 18 0936 | 3.53 | 0914 | 3.68 | 18 0957 | 3.46 | 1650 | 0.38 | SU 1628 | 0.90 | 1650 | 0.38 | SU 1628 | 0.90 | 1650 | 0.38 | SU 1628 | 0.90 | 1650 | 0.38 | SU 1628 | 0.90 | | | | |
| FR 1423 | 0.70 | SA 1447 | 0.49 | MO 1455 | 0.57 | TU 1535 | 0.80 | 1523 | 0.44 | TH 1550 | 0.84 | 2306 | 4.80 | 2249 | 4.04 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | | | | |
| 2030 | 4.27 | 2104 | 4.60 | ● 2115 | 4.59 | 2205 | 4.42 | 2233 | 4.80 | 2251 | 4.18 | 2354 | 4.54 | 2315 | 3.85 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | | | | |
| 4 0241 | 0.93 | 19 0333 | 0.74 | 4 0344 | 0.83 | 19 0442 | 0.97 | 4 0424 | 0.61 | 19 0452 | 0.93 | 4 0541 | 0.41 | 19 0515 | 0.93 | 4 1134 | 3.84 | 19 1109 | 3.52 | 4 1134 | 3.84 | 19 1109 | 3.52 | 4 1134 | 3.84 | 19 1109 | 3.52 | | | | |
| 0836 | 4.04 | 19 0912 | 3.96 | 0926 | 3.70 | 1016 | 3.42 | 1005 | 3.67 | 1032 | 3.42 | 1740 | 0.60 | MO 1658 | 1.06 | 1740 | 0.60 | MO 1658 | 1.06 | 1740 | 0.60 | MO 1658 | 1.06 | 1740 | 0.60 | MO 1658 | 1.06 | | | | |
| SA 1452 | 0.66 | SU 1522 | 0.58 | TU 1534 | 0.60 | WE 1607 | 0.93 | 1610 | 0.49 | FR 1621 | 0.93 | 2354 | 4.54 | 2315 | 3.85 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | | | | |
| 2102 | 4.38 | 2144 | 4.58 | 2157 | 4.63 | 2242 | 4.29 | 2233 | 4.80 | 2251 | 4.18 | 2354 | 4.54 | 2315 | 3.85 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | ● 2145 | 4.81 | 2219 | 4.30 | | | | |
| 5 0317 | 0.89 | 20 0416 | 0.84 | 5 0430 | 0.83 | 20 0518 | 1.07 | 5 0513 | 0.60 | 20 0524 | 1.01 | 5 0627 | 0.56 | 20 0543 | 1.04 | 5 1228 | 3.75 | 20 1143 | 3.44 | 5 1228 | 3.75 | 20 1143 | 3.44 | 5 1228 | 3.75 | 20 1143 | 3.44 | | | | |
| 0907 | 3.96 | 20 0953 | 3.75 | 1012 | 3.60 | 1054 | 3.30 | 1056 | 3.63 | 1106 | 3.36 | 1834 | 0.90 | MO 1834 | 1.27 | 1834 | 0.90 | MO 1834 | 1.27 | 1834 | 0.90 | MO 1834 | 1.27 | 1834 | 0.90 | MO 1834 | 1.27 | | | | |
| SU 1521 | 0.66 | MO 1555 | 0.75 | WE 1615 | 0.70 | TH 1640 | 1.09 | 1659 | 0.61 | SA 1652 | 1.05 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | | | | |
| ● 2135 | 4.44 | 2224 | 4.47 | 2244 | 4.59 | 2319 | 4.12 | 2324 | 4.70 | 2343 | 4.03 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | 2304 | 4.03 | 2343 | 4.70 | | | | |
| 6 0352 | 0.91 | 21 0458 | 1.00 | 6 0520 | 0.88 | 21 0555 | 1.19 | 6 0602 | 0.65 | 21 0557 | 1.10 | 6 0716 | 0.76 | 21 1225 | 3.35 | 6 0716 | 0.76 | 21 1225 | 3.35 | 6 0716 | 0.76 | 21 1225 | 3.35 | 6 0716 | 0.76 | 21 1225 | 3.35 | | | | |
| 0940 | 3.83 | 21 1034 | 3.52 | 1102 | 3.48 | 1134 | 3.18 | 1151 | 3.57 | 1143 | 3.29 | 1327 | 3.65 | WE 1814 | 1.51 | 1327 | 3.65 | WE 1814 | 1.51 | 1327 | 3.65 | WE 1814 | 1.51 | 1327 | 3.65 | WE 1814 | 1.51 | | | | |
| MO 1551 | 0.72 | TU 1628 | 0.96 | 1701 | 0.86 | FR 1716 | 1.27 | 1752 | 0.80 | SU 1725 | 1.23 | 1345 | 3.57 | TH 1320 | 3.28 | 1345 | 3.57 | TH 1320 | 3.28 | 1345 | 3.57 | TH 1320 | 3.28 | 1345 | 3.57 | TH 1320 | 3.28 | | | | |
| 2211 | 4.45 | 2303 | 4.29 | 2334 | 4.49 | 2358 | 3.94 | 1756 | 1.06 | SA 1758 | 1.48 | 2057 | 1.46 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | | | | |
| 7 0432 | 0.98 | 22 0540 | 1.18 | 7 0612 | 0.96 | 22 0637 | 1.31 | 7 0016 | 4.52 | 22 0633 | 1.21 | 7 0140 | 3.81 | 22 0021 | 3.37 | 7 0812 | 0.97 | 22 0658 | 1.33 | 7 0812 | 0.97 | 22 0658 | 1.33 | 7 0812 | 0.97 | 22 0658 | 1.33 | | | | |
| 1016 | 3.67 | 22 1115 | 3.29 | 1158 | 3.35 | 1220 | 3.08 | 0654 | 0.75 | 1226 | 3.21 | 1435 | 3.57 | TH 1320 | 3.28 | 1435 | 3.57 | TH 1320 | 3.28 | 1435 | 3.57 | TH 1320 | 3.28 | 1435 | 3.57 | TH 1320 | 3.28 | | | | |
| TU 1624 | 0.85 | WE 1702 | 1.21 | 1756 | 1.06 | SA 1758 | 1.48 | 1249 | 3.50 | MO 1805 | 1.44 | 2057 | 1.46 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | 1920 | 1.73 | | | | |
| 2251 | 4.39 | 2346 | 4.07 | 1902 | 1.26 | 1852 | 1.68 | 1959 | 1.25 | 1900 | 1.66 | 2225 | 1.51 | 2057 | 1.46 | 2225 | 1.51 | 2057 | 1.46 | 2225 | 1.51 | 2057 | 1.46 | 2225 | 1.51 | 2057 | 1.46 | | | | |
| 8 0516 | 1.09 | 23 0625 | 1.37 | 8 0029 | 4.35 | 23 0043 | 3.75 | 8 0749 | 0.85 | 23 0716 | 1.32 | 8 0918 | 1.13 | 23 0801 | 1.44 | 8 0918 | 1.13 | 23 0801 | 1.44 | 8 0918 | 1.13 | 23 0801 | 1.44 | 8 0918 | 1.13 | 23 0801 | 1.44 | | | | |
| 1100 | 3.48 | 23 1202 | 3.08 | 1302 | 3.26 | SU 1315 | 3.00 | 1353 | 3.46 | TU 1317 | 3.14 | 1556 | 3.60 | FR 1432 | 3.27 | 1556 | 3.60 | FR 1432 | 3.27 | 1556 | 3.60 | FR 1432 | 3.27 | 1556 | 3.60 | FR 1432 | 3.27 | | | | |
| WE 1702 | 1.03 | TH 1741 | 1.47 | 1415 | 3.26 | MO 1422 | 2.98 | 2020 | 1.39 | WE 1421 | 2.17 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | | | | |
| 2339 | 4.27 | 2434 | 1.73 | 2020 | 1.39 | 2007 | 1.83 | 2057 | 1.39 | 2118 | 1.39 | 2017 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | WE 1822 | 1.82 | 2248 | 1.38 | | | | |
| 9 0609 | 1.24 | 24 0033 | 3.83 | 9 0130 | 4.20 | 24 0136 | 3.58 | 9 0848 | 0.94 | 24 0808 | 1.39 | 9 1030 | 1.19 | 24 0917 | 1.44 | 9 0405 | 3.24 | 24 0240 | 2.95 | 9 0405 | 3.24 | 24 0240 | 2.95 | 9 0405 | 3.24 | 24 0240 | 2.95 | | | | |
| 1153 | 3.28 | 24 0718 | 1.53 | 0814 | 1.08 | 0821 | 1.47 | 1523 | 3.49 | WE 1421 | 3.12 | 1716 | 3.76 | SA 1553 | 3.41 | 1716 | 3.76 | SA 1553 | 3.41 | 1716 | 3.76 | SA 1553 | 3.41 | 1716 | 3.76 | SA 1553 | 3.41 | | | | |
| TH 1753 | 1.26 | FR 1259 | 2.92 | 1833 | 1.73 | 1833 | 1.73 | 1917 | 4.25 | 1828 | 4.07 | 2019 | 4.31 | WE 1822 | 1.82 | 2019 | 4.31 | WE 1822 | 1.82 | 2019 | 4.31 | WE 1822 | 1.82 | 2019 | 4.31 | WE 1822 | 1.82 | | | | |
| 10036 | 4.13 | 25 0130 | 3.63 | 1028 | 0.95 | 26 0336 | 3.40 | 1056 | 0.96 | 26 1009 | 1.31 | 1225 | 3.65 | MO 1805 | 4.06 | 1225 | 3.65 | MO 1805 | 4.06 | 1225 | 3.65 | MO 1805 | 4.06 | 1225 | 3.65 | MO 1805 | 4.06 | | | | |
| 0713 | 1.35 | 25 0824 | 1.61 | 1649 | 3.61 | WE 1635 | 3.27 | 1732 | 3.84 | FR 1639 | 3.44 | 1434 | 3.57 | TH 1323 | 3.28 | 1434 | 3.57 | TH 1323 | 3.28 | 1434 | 3.57 | TH 1323 | 3.28 | 1434 | 3.57 | TH 1323 | 3.28 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – ROSSLYN BAY

2019

LAT 23° 10' S LONG 150° 48' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|----|--------------|---|---------------------|-----------|--------------|---|---------------------|----|--------------|---|---------------------|--------------|--------------|---|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0430 0.16 | 16 | 0411 0.70 | | 1 0437 0.29 | 16 | 0358 0.70 | | 1 0517 1.02 | 16 | 0435 0.94 | | 1 0529 1.34 | 16 | 0522 1.00 | |
| 1023 4.15 | | 1009 3.82 | | 1048 4.32 | | 1011 4.04 | | 1200 4.03 | | 1114 4.15 | | 1221 3.91 | | 1200 4.38 | |
| SU 1635 0.29 | | MO 1607 0.85 | | TU 1708 0.62 | | WE 1621 0.99 | | FR 1841 1.30 | | SA 1744 1.21 | | SU 1909 1.41 | | MO 1838 1.07 | |
| 2242 4.71 | | 2214 3.96 | | 2259 4.04 | | 2209 3.61 | | 2320 3.15 | | | | | | | |
| 2 0512 0.28 | 17 | 0434 0.79 | | 2 0515 0.57 | 17 | 0422 0.83 | | 2 0013 3.01 | 17 | 0519 1.16 | | 2 0042 2.90 | 17 | 0023 3.26 | |
| 1113 4.10 | | 1038 3.77 | | 1136 4.15 | | 1043 3.97 | | 0602 1.38 | | 1207 4.03 | | 0621 1.63 | | 0621 1.21 | |
| MO 1724 0.55 | | TU 1635 0.99 | | WE 1759 0.96 | | TH 1656 1.14 | | SA 1258 3.76 | | SU 1845 1.32 | | MO 1318 3.70 | | TU 1257 4.25 | |
| 2327 4.36 | | 2237 3.76 | | 2346 3.59 | | 2237 3.39 | | 1950 1.51 | | | | 2010 1.52 | | 1937 1.12 | |
| 3 0553 0.51 | 18 | 0457 0.91 | | 3 0555 0.92 | 18 | 0450 1.00 | | 3 0123 2.76 | 18 | 0025 2.98 | | 3 0154 2.82 | 18 | 0131 3.22 | |
| 1203 3.97 | | 1108 3.70 | | 1230 3.91 | | 1122 3.86 | | 0710 1.71 | | 0623 1.39 | | 0737 1.85 | | 0734 1.39 | |
| TU 1816 0.90 | | WE 1708 1.18 | | TH 1900 1.31 | | FR 1739 1.33 | | SU 1409 3.55 | | MO 1312 3.92 | | TU 1423 3.55 | | WE 1400 4.13 | |
| 2301 3.53 | | 2335 3.27 | | 2315 3.15 | | | | 2112 1.56 | | 1956 1.36 | | 2117 1.53 | | 2041 1.12 | |
| 4 0015 3.93 | 19 | 0524 1.07 | | 4 0040 3.16 | 19 | 0527 1.22 | | 4 0300 2.69 | 19 | 0149 2.92 | | 4 0317 2.87 | 19 | 0250 3.28 | |
| 0638 0.81 | | 1146 3.60 | | 0645 1.29 | | 1216 3.73 | | 0858 1.85 | | 0752 1.53 | | 0914 1.91 | | 0856 1.47 | |
| WE 1259 3.80 | | TH 1748 1.40 | | FR 1333 3.67 | | SA 1842 1.51 | | MO 1530 3.50 | | TU 1426 3.90 | | WE 1529 3.50 | | TH 1506 4.03 | |
| 1918 1.27 | | 2335 3.27 | | 2020 1.56 | | | | 2230 1.45 | | 2113 1.27 | | 2219 1.43 | | 2148 1.05 | |
| 5 0110 3.47 | 20 | 0600 1.26 | | 5 0156 2.82 | 20 | 0018 2.91 | | 5 0437 2.88 | 20 | 0323 3.04 | | 5 0434 3.07 | 20 | 0410 3.48 | |
| 0731 1.12 | | 1238 3.49 | | 0803 1.60 | | 0628 1.46 | | 1027 1.75 | | 0924 1.48 | | 1028 1.81 | | 1016 1.41 | |
| TH 1405 3.62 | | FR 1849 1.63 | | 1455 3.52 | | SU 1326 3.63 | | 1641 3.58 | | WE 1540 3.97 | | 1630 3.54 | | FR 1613 3.97 | |
| 2039 1.54 | | 2230 1.54 | | 2157 1.57 | | 2007 1.58 | | 2327 1.26 | | 2226 1.06 | | 2310 1.28 | | 2251 0.93 | |
| 6 0221 3.09 | 21 | 0031 2.99 | | 6 0342 2.73 | 21 | 0156 2.76 | | 6 0533 3.16 | 21 | 0442 3.35 | | 6 0529 3.34 | 21 | 0520 3.78 | |
| 0843 1.37 | | 0700 1.46 | | 0946 1.69 | | 0810 1.60 | | 1127 1.55 | | 1041 1.28 | | 1124 1.64 | | 1127 1.28 | |
| FR 1529 3.55 | | SA 1350 3.41 | | SU 1625 3.56 | | MO 1450 3.65 | | WE 1733 3.71 | | TH 1647 4.10 | | 1722 3.60 | | SA 1717 3.93 | |
| ○ 2216 1.57 | | 2021 1.74 | | 2320 1.38 | | ○ 2138 1.46 | | 2258 1.16 | | 2327 0.80 | | 2352 1.10 | | 2348 0.80 | |
| 7 0354 2.91 | 22 | 0207 2.79 | | 7 0513 2.92 | 22 | 0345 2.87 | | 7 0008 1.07 | 22 | 0541 3.71 | | 7 0611 3.62 | 22 | 0617 4.09 | |
| 1011 1.45 | | 0835 1.56 | | 1110 1.55 | | 0947 1.49 | | 0612 3.43 | | 1145 1.05 | | 1210 1.46 | | 1230 1.13 | |
| SA 1656 3.66 | | SU 1517 3.48 | | MO 1730 3.72 | | TU 1611 3.85 | | 1211 1.35 | | FR 1743 4.22 | | 1806 3.67 | | SU 1814 3.90 | |
| 2343 1.38 | | ○ 2159 1.63 | | | | 2258 1.16 | | 1814 3.84 | | | | | | | |
| 8 0522 3.00 | 23 | 0356 2.83 | | 8 0014 1.14 | 23 | 0506 3.20 | | 8 0042 0.90 | 23 | 0017 0.58 | | 8 0029 0.94 | 23 | 0040 0.69 | |
| 1130 1.35 | | 1006 1.44 | | 0606 3.19 | | 1103 1.21 | | 0646 3.68 | | 0631 4.05 | | 0647 3.88 | | 0705 4.35 | |
| SU 1800 3.86 | | MO 1639 3.74 | | 1207 1.33 | | WE 1717 4.13 | | 1247 1.18 | | SA 1240 0.85 | | 1252 1.30 | | MO 1327 0.99 | |
| 2322 1.31 | | 1833 4.44 | | 1817 3.90 | | 2358 0.82 | | 1849 3.92 | | 1833 4.26 | | 1845 3.71 | | 1906 3.85 | |
| 9 0040 1.13 | 24 | 0518 3.10 | | 9 0052 0.95 | 24 | 0600 3.58 | | 9 0111 0.76 | 24 | 0102 0.41 | | 9 0103 0.81 | 24 | 0125 0.62 | |
| 0621 3.19 | | 1120 1.15 | | 0643 3.44 | | 1203 0.89 | | 0717 3.89 | | 0715 4.33 | | 0722 4.10 | | 0749 4.54 | |
| MO 1228 1.17 | | TU 1743 4.09 | | WE 1247 1.13 | | TH 1809 4.39 | | 1322 1.05 | | SU 1332 0.71 | | 1332 1.16 | | 1418 0.90 | |
| 1847 4.05 | | 1854 4.03 | | | | 1923 3.96 | | 1920 4.23 | | | | 1922 3.72 | | 1954 3.79 | |
| 10 0123 0.94 | 25 | 0022 0.93 | | 10 0124 0.81 | 25 | 0045 0.51 | | 10 0141 0.66 | 25 | 0144 0.33 | | 10 0135 0.70 | 25 | 0208 0.60 | |
| 0703 3.38 | | 0614 3.44 | | 0714 3.64 | | 0645 3.93 | | 0748 4.06 | | 0758 4.53 | | 0754 4.28 | | 0831 4.64 | |
| TU 1311 1.01 | | WE 1219 0.82 | | 1321 0.98 | | 1255 0.63 | | 1356 0.95 | | 1422 0.64 | | 1410 1.05 | | WE 1506 0.85 | |
| 1924 4.18 | | 1833 4.44 | | 1926 4.12 | | 1856 4.55 | | 1954 3.95 | | 2006 4.13 | | 1956 3.70 | | 2039 3.73 | |
| 11 0157 0.81 | 26 | 0111 0.59 | | 11 0151 0.70 | 26 | 0128 0.29 | | 11 0209 0.59 | 26 | 0224 0.32 | | 11 0207 0.64 | 26 | 0246 0.63 | |
| 0737 3.53 | | 0700 3.75 | | 0744 3.80 | | 0728 4.21 | | 0818 4.18 | | 0841 4.64 | | 0826 4.42 | | 0911 4.66 | |
| WE 1346 0.89 | | TH 1310 0.52 | | 1351 0.87 | | SA 1344 0.45 | | 1429 0.90 | | TU 1511 0.65 | | 1448 0.97 | | TH 1550 0.85 | |
| 1956 4.26 | | 1919 4.70 | | 1957 4.16 | | 1940 4.60 | | 2024 3.88 | | 2050 3.97 | | 2032 3.67 | | 2121 3.64 | |
| 12 0227 0.73 | 27 | 0154 0.32 | | 12 0218 0.63 | 27 | 0209 0.16 | | 12 0236 0.57 | 27 | 0301 0.40 | | 12 0240 0.60 | 27 | 0322 0.71 | |
| 0808 3.65 | | 0744 4.03 | | 0814 3.92 | | 0811 4.43 | | 0848 4.27 | | 0924 4.65 | | 0900 4.52 | | 0950 4.60 | |
| TH 1415 0.80 | | FR 1358 0.30 | | 1420 0.80 | | SU 1432 0.37 | | 1503 0.88 | | WE 1558 0.72 | | 1528 0.93 | | FR 1630 0.91 | |
| 2027 4.29 | | 2003 4.84 | | 2027 4.15 | | 2024 4.53 | | ○ 2053 3.79 | | ○ 2133 3.76 | | ○ 2109 3.62 | | 2201 3.55 | |
| 13 0254 0.68 | 28 | 0237 0.14 | | 13 0245 0.58 | 28 | 0249 0.12 | | 13 0303 0.59 | 28 | 0338 0.56 | | 13 0314 0.62 | 28 | 0357 0.84 | |
| 0839 3.74 | | 0828 4.23 | | 0844 4.01 | | 0855 4.55 | | 0919 4.31 | | 1006 4.56 | | 0938 4.57 | | 1028 4.47 | |
| FR 1443 0.74 | | SA 1446 0.19 | | 1450 0.77 | | MO 1519 0.39 | | 1538 0.91 | | TH 1644 0.86 | | 1611 0.91 | | SA 1708 1.02 | |
| 2057 4.29 | | 2047 4.85 | | 2054 4.08 | | ○ 2107 4.34 | | 2123 3.66 | | 2216 3.53 | | 2150 3.55 | | 2239 3.44 | |
| 14 0320 0.66 | 29 | 0318 0.07 | | 14 0310 0.58 | 29 | 0327 0.21 | | 14 0331 0.65 | 29 | 0413 0.78 | | 14 0352 0.69 | 29 | 0430 1.01 | |
| 0909 3.80 | | 0914 4.36 | | 0914 4.06 | | 0940 4.57 | | 0952 4.31 | | 1049 4.39 | | 1021 4.56 | | 1106 4.30 | |
| SA 1512 0.72 | | SU 1533 0.20 | | MO 1520 0.79 | | TU 1607 0.52 | | 1614 0.98 | | FR 1729 1.04 | | 1656 0.94 | | SU 1746 1.15 | |
| ○ 2125 4.23 | | ○ 2131 4.71 | | ○ 2120 3.96 | | 2151 4.06 | | 2155 3.51 | | 2300 3.30 | | 2235 3.46 | | 2320 3.32 | |
| 15 0346 0.66 | 30 | 0359 0.12 | | 15 0335 0.61 | 30 | 0404 0.40 | | 15 0401 0.77 | 30 | 0449 1.05 | | 15 0434 0.82 | 30 | 0506 1.20 | |
| 0940 3.83 | | 1001 4.39 | | 0943 4.07 | | 1025 4.48 | | 1030 4.25 | | 1133 4.16 | | 1108 4.49 | | 1146 4.11 | |
| SU 1540 0.76 | | MO 1620 0.35 | | TU 1550 0.87 | | WE 1655 0.75 | | 1656 1.08 | | SA 1816 1.24 | | SU 1746 1.00 | | MO 1824 1.29 | |
| 2151 4.12 | | 2216 4.43 | | 2145 3.80 | | 2235 3.72 | | 2232 3.33 | | 2346 3.08 | | 2325 3.36 | | | |
| | | | | 31 | 0439 0.68 | | | | | | | 31 | 0002 3.20 | | |
| | | | | | 1111 4.28 | | | | | | | | 0543 1.43 | | |
| | | | | | 1745 1.02 | | | | | | | | TU 1228 3.90 | | |
| | | | | | 2320 3.35 | | | | | | | | 1908 1.42 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – HAY POINT

2019

LAT 21° 16' S LONG 149° 18' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0129 | 1.16 | 16 | 0031 | 1.73 | 1 | 0250 | 1.31 | 16 | 0156 | 1.36 | 1 | 0143 | 1.83 | |
| | 0752 | 5.69 | | 0653 | 5.20 | | 0909 | 6.06 | | 0817 | 6.14 | | 0806 | 5.69 | |
| TU | 1414 | 1.62 | WE | 1308 | 2.12 | FR | 1540 | 1.43 | SA | 1450 | 1.42 | FR | 1440 | 1.63 | |
| | 2000 | 5.28 | | 1859 | 4.94 | | 2125 | 5.14 | | 2038 | 5.25 | | 2030 | 5.00 | |
| 2 | 0220 | 1.06 | 17 | 0125 | 1.40 | 2 | 0330 | 1.22 | 17 | 0251 | 1.00 | 2 | 0233 | 1.58 | |
| | 0841 | 5.96 | | 0747 | 5.68 | | 0946 | 6.17 | | 0907 | 6.57 | | 0848 | 5.93 | |
| WE | 1507 | 1.46 | TH | 1407 | 1.75 | SA | 1617 | 1.36 | SU | 1543 | 1.05 | SA | 1519 | 1.42 | |
| | 2051 | 5.24 | | 1954 | 5.12 | | 2202 | 5.18 | | 2128 | 5.53 | | 2109 | 5.20 | |
| 3 | 0305 | 1.01 | 18 | 0215 | 1.10 | 3 | 0404 | 1.18 | 18 | 0343 | 0.70 | 3 | 0312 | 1.40 | |
| | 0923 | 6.12 | | 0835 | 6.13 | | 1019 | 6.20 | | 0954 | 6.89 | | 0924 | 6.07 | |
| TH | 1552 | 1.38 | FR | 1502 | 1.42 | SU | 1650 | 1.35 | MO | 1630 | 0.77 | SU | 1553 | 1.31 | |
| | 2134 | 5.19 | | 2047 | 5.29 | | 2235 | 5.19 | | 2216 | 5.77 | | 2143 | 5.32 | |
| 4 | 0343 | 1.01 | 19 | 0305 | 0.85 | 4 | 0435 | 1.17 | 19 | 0432 | 0.48 | 4 | 0346 | 1.28 | |
| | 1000 | 6.21 | | 0922 | 6.51 | | 1049 | 6.19 | | 1039 | 7.09 | | 0955 | 6.14 | |
| FR | 1632 | 1.35 | SA | 1554 | 1.14 | MO | 1720 | 1.38 | TU | 1715 | 0.57 | MO | 1623 | 1.27 | |
| | 2213 | 5.12 | | 2138 | 5.43 | | 2303 | 5.19 | | 2303 | 5.95 | | 2213 | 5.40 | |
| 5 | 0418 | 1.04 | 20 | 0353 | 0.65 | 5 | 0503 | 1.18 | 20 | 0518 | 0.38 | 5 | 0416 | 1.21 | |
| | 1035 | 6.21 | | 1009 | 6.80 | | 1116 | 6.14 | | 1123 | 7.13 | | 1024 | 6.15 | |
| SA | 1708 | 1.39 | SU | 1644 | 0.92 | TU | 1746 | 1.42 | WE | 1758 | 0.51 | TU | 1651 | 1.25 | |
| | 2249 | 5.04 | | 2227 | 5.54 | | 2330 | 5.18 | | 2348 | 6.02 | | 2239 | 5.46 | |
| 6 | 0449 | 1.11 | 21 | 0441 | 0.51 | 6 | 0530 | 1.22 | 21 | 0603 | 0.45 | 6 | 0444 | 1.16 | |
| | 1107 | 6.15 | | 1054 | 6.99 | | 1142 | 6.06 | | 1207 | 6.96 | | 1050 | 6.13 | |
| SU | 1741 | 1.46 | MO | 1732 | 0.76 | WE | 1812 | 1.48 | TH | 1840 | 0.59 | WE | 1717 | 1.25 | |
| | 2322 | 4.95 | | 2316 | 5.62 | | 2357 | 5.16 | | | | | 2306 | 5.52 | |
| 7 | 0519 | 1.21 | 22 | 0529 | 0.47 | 7 | 0557 | 1.31 | 22 | 0033 | 5.97 | 7 | 0511 | 1.16 | |
| | 1136 | 6.04 | | 1141 | 7.04 | | 1207 | 5.94 | | 0647 | 0.72 | | 1115 | 6.08 | |
| MO | 1811 | 1.57 | TU | 1819 | 0.71 | TH | 1836 | 1.57 | | FR | 1250 | 6.58 | TH | 1741 | 1.27 |
| | 2352 | 4.85 | | | | | | | | 1921 | 0.83 | | 2332 | 5.54 | |
| 8 | 0546 | 1.33 | 23 | 0005 | 5.62 | 8 | 0025 | 5.10 | 23 | 0118 | 5.79 | 8 | 0039 | 5.79 | |
| | 1205 | 5.91 | | 0617 | 0.56 | | 0626 | 1.47 | | 0732 | 1.15 | | 0622 | 1.57 | |
| TU | 1839 | 1.68 | WE | 1227 | 6.92 | FR | 1234 | 5.75 | SU | 1335 | 6.05 | FR | 1805 | 1.33 | |
| | | | | 1905 | 0.78 | | 1902 | 1.69 | | 2002 | 1.18 | | 1211 | 5.29 | |
| 9 | 0021 | 4.75 | 24 | 0054 | 5.54 | 9 | 0056 | 4.99 | 24 | 0206 | 5.52 | 9 | 0000 | 5.51 | |
| | 0614 | 1.49 | | 0704 | 0.81 | | 0657 | 1.72 | | 0821 | 1.67 | | 0607 | 1.38 | |
| WE | 1233 | 5.74 | TH | 1314 | 6.62 | SU | 1302 | 5.50 | SU | 1424 | 5.44 | SU | 1206 | 5.75 | |
| | 1908 | 1.81 | | 1951 | 0.96 | | 1931 | 1.85 | | 2048 | 1.58 | | 1828 | 1.45 | |
| 10 | 0053 | 4.64 | 25 | 0144 | 5.38 | 10 | 0132 | 4.85 | 25 | 0303 | 5.23 | 10 | 0028 | 5.42 | |
| | 0645 | 1.69 | | 0753 | 1.19 | | 0732 | 2.02 | | 0923 | 2.17 | | 0637 | 1.62 | |
| TH | 1304 | 5.53 | FR | 1403 | 6.19 | SU | 1336 | 5.19 | MO | 1524 | 4.86 | SU | 1233 | 5.48 | |
| | 1940 | 1.95 | | 2039 | 1.21 | | 2007 | 2.02 | | 2147 | 1.95 | | 1854 | 1.62 | |
| 11 | 0130 | 4.51 | 26 | 0240 | 5.20 | 11 | 0217 | 4.70 | 26 | 0418 | 5.02 | 11 | 0100 | 5.29 | |
| | 0721 | 1.95 | | 0848 | 1.63 | | 0819 | 2.34 | | 1053 | 2.46 | | 0710 | 1.90 | |
| FR | 1339 | 5.29 | SU | 1458 | 5.71 | | 1421 | 4.86 | | TU | 1649 | 4.48 | | 1304 | 5.15 |
| | 2019 | 2.09 | | 2133 | 1.46 | | 2058 | 2.17 | | 2308 | 2.15 | | 1924 | 1.82 | |
| 12 | 0216 | 4.38 | 27 | 0345 | 5.05 | 12 | 0323 | 4.63 | 27 | 0552 | 5.07 | 12 | 0139 | 5.12 | |
| | 0806 | 2.24 | | 0955 | 2.03 | | 0931 | 2.60 | | 1239 | 2.33 | | 0752 | 2.21 | |
| SA | 1424 | 5.03 | SU | 1604 | 5.25 | | 1533 | 4.56 | | WE | 1828 | 4.47 | | 1344 | 4.79 |
| | 2110 | 2.19 | | 2237 | 1.65 | | 2217 | 2.23 | | | | | 2005 | 2.06 | |
| 13 | 0319 | 4.31 | 28 | 0503 | 5.04 | 13 | 0454 | 4.75 | 28 | 0036 | 2.07 | 13 | 0235 | 4.96 | |
| | 0907 | 2.51 | | 1122 | 2.24 | | 1113 | 2.60 | | 0711 | 5.36 | | 0858 | 2.50 | |
| SU | 1524 | 4.80 | MO | 1721 | 4.94 | | 1710 | 4.48 | | TH | 1351 | 1.96 | WE | 1451 | 4.42 |
| | 2217 | 2.19 | | 2351 | 1.71 | | 2344 | 2.07 | | 1940 | 4.72 | | 2116 | 2.29 | |
| 14 | 0437 | 4.42 | 29 | 0624 | 5.23 | 14 | 0615 | 5.13 | | | | 14 | 0404 | 4.92 | |
| | 1032 | 2.61 | | 1253 | 2.15 | | 1241 | 2.28 | | | | | 0638 | 5.13 | |
| MO | 1642 | 4.70 | TU | 1842 | 4.86 | | 1833 | 4.65 | | | | | 1639 | 4.26 | |
| | 2329 | 2.02 | | | | | | | | | | | 2303 | 2.28 | |
| 15 | 0552 | 4.74 | 30 | 0102 | 1.61 | 15 | 0054 | 1.73 | | | | 15 | 0542 | 5.17 | |
| | 1200 | 2.45 | | 0733 | 5.55 | | 0721 | 5.64 | | | | | 1222 | 2.24 | |
| TU | 1756 | 4.77 | WE | 1404 | 1.87 | | 1351 | 1.84 | | | | | 1819 | 4.50 | |
| | | | | 1950 | 4.94 | | 1940 | 4.95 | | | | | 2008 | 4.94 | |
| 31 | 0201 | 1.45 | | | | | | | | | | 31 | 0206 | 1.84 | |
| | 0826 | 5.85 | | | | | | | | | | | 0817 | 5.71 | |
| TH | 1457 | 1.60 | | | | | | | | | | | 1448 | 1.43 | |
| | 2043 | 5.06 | | | | | | | | | | | 2043 | 5.21 | |

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Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – HAY POINT

2019

LAT 21° 16' S LONG 149° 18' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------|-----------|
| Time | m | Time | m |
| 1 0617 0.31 | 16 0553 1.14 | 1 0002 6.15 | 16 0543 1.14 | 1 0111 4.63 | 16 0017 4.58 | 1 0142 4.24 | 16 0109 4.63 | 1 0728 1.89 | 16 0710 1.46 | 1 1358 5.30 | 16 1336 5.90 | 1 2053 2.07 | 16 2021 1.63 | 0109 | 4.63 |
| 1209 5.85 | 16 1148 5.29 | 1 0626 0.48 | 16 1150 5.53 | 1 0712 1.47 | 16 0623 1.45 | 1 0728 2.26 | 16 0710 1.46 | 1 1358 5.30 | 16 1336 5.90 | 1 2053 2.07 | 16 2021 1.63 | 0109 | 4.63 | | |
| SU 1825 0.45 | MO 1755 1.28 | TU 1229 6.01 | WE 1807 1.52 | FR 1337 5.48 | SA 1247 5.59 | 2021 1.92 | 1923 1.87 | 0111 4.63 | 0017 4.58 | 0142 4.24 | 0109 4.63 | 0728 1.89 | 0710 1.46 | 1358 5.30 | 1336 5.90 |
| 2353 5.46 | 1824 1.52 | 1852 0.94 | 2353 4.97 | 2040 1.90 | 1921 2.04 | 2136 2.17 | 2144 1.99 | 0111 4.63 | 0017 4.58 | 0142 4.24 | 0109 4.63 | 0728 1.89 | 0710 1.46 | 1358 5.30 | 1336 5.90 |
| 2 0026 6.53 | 17 0615 1.27 | 2 0045 5.60 | 17 0608 1.33 | 2 0208 4.16 | 17 0104 4.32 | 2 0240 4.03 | 17 0209 4.51 | 2 0820 2.26 | 17 0808 1.71 | 2 1456 5.01 | 17 1435 5.72 | 2 2201 2.15 | 17 2124 1.64 | 0109 | 4.63 |
| 0657 0.48 | 17 1215 5.19 | 0704 0.86 | 17 1221 5.39 | 0800 1.95 | 17 0706 1.72 | 0820 2.26 | 17 0808 1.71 | 0820 2.26 | 17 0808 1.71 | 1456 5.01 | 17 1435 5.72 | 2201 2.15 | 17 2124 1.64 | 0109 | 4.63 |
| MO 1255 5.73 | TU 1824 1.52 | WE 1315 5.71 | TH 1840 1.77 | SA 1436 5.10 | SU 1339 5.40 | 2025 2.01 | 2136 2.17 | 0111 4.63 | 0017 4.58 | 0142 4.24 | 0109 4.63 | 0728 1.89 | 0710 1.46 | 1358 5.30 | 1336 5.90 |
| 1911 0.81 | 1851 1.81 | 1941 1.43 | 2040 1.90 | 1921 2.04 | 2136 2.17 | 2144 1.99 | 2021 2.01 | 2021 2.01 | 2021 2.01 | 1456 5.01 | 17 1435 5.72 | 2201 2.15 | 17 2124 1.64 | 0109 | 4.63 |
| 3 0111 6.03 | 18 0018 5.17 | 3 0133 4.97 | 18 0024 4.65 | 3 0325 3.88 | 18 0210 4.12 | 3 0354 3.98 | 18 0320 4.51 | 3 0933 2.51 | 18 0919 1.90 | 3 1608 4.84 | 18 1544 5.59 | 3 2313 2.07 | 18 2231 1.55 | 0320 | 4.51 |
| 0739 0.79 | 18 0638 1.46 | 0746 1.34 | 18 0636 1.57 | 0909 2.34 | 18 0808 2.00 | 0933 2.51 | 18 0919 1.90 | 1608 4.84 | 18 1544 5.59 | 1608 4.84 | 18 1544 5.59 | 2313 2.07 | 18 2231 1.55 | 0320 | 4.51 |
| TU 1344 5.51 | WE 1245 5.03 | TH 1407 5.35 | FR 1256 5.20 | 1554 4.86 | MO 1449 5.27 | 1449 5.27 | 1449 5.27 | 1608 4.84 | 18 1544 5.59 | 1608 4.84 | 18 1544 5.59 | 2313 2.07 | 18 2231 1.55 | 0320 | 4.51 |
| 2001 1.30 | 1855 1.81 | 2040 1.90 | 1921 2.04 | 2309 2.13 | 2144 1.99 | 2144 1.99 | 2144 1.99 | 1608 4.84 | 18 1544 5.59 | 1608 4.84 | 18 1544 5.59 | 2313 2.07 | 18 2231 1.55 | 0320 | 4.51 |
| 4 0159 5.42 | 19 0045 4.83 | 4 0232 4.38 | 19 0103 4.32 | 4 0506 3.94 | 19 0339 4.11 | 4 0517 4.15 | 19 0440 4.67 | 4 1103 2.53 | 19 1041 1.96 | 4 1722 4.85 | 19 1657 5.54 | 4 2339 1.36 | 19 2231 1.55 | 0440 | 4.67 |
| 0824 1.19 | 19 0705 1.68 | 0838 1.83 | 19 0712 1.85 | 1050 2.45 | 19 0938 2.13 | 1103 2.53 | 19 1041 1.96 | 1722 4.85 | 19 1657 5.54 | 1722 4.85 | 19 1657 5.54 | 2339 1.36 | 19 2231 1.55 | 0440 | 4.67 |
| WE 1439 5.23 | TH 1320 4.85 | FR 1514 5.01 | SA 1346 5.00 | 1724 4.88 | TU 1613 5.30 | 1613 5.30 | 1613 5.30 | 1722 4.85 | 19 1657 5.54 | 1722 4.85 | 19 1657 5.54 | 2339 1.36 | 19 2231 1.55 | 0440 | 4.67 |
| 2059 1.80 | 1934 2.12 | 2204 2.20 | 2021 2.27 | 1833 5.10 | 2306 1.74 | 2306 1.74 | 2306 1.74 | 1722 4.85 | 19 1657 5.54 | 1722 4.85 | 19 1657 5.54 | 2339 1.36 | 19 2231 1.55 | 0440 | 4.67 |
| 5 0258 4.81 | 20 0120 4.46 | 5 0356 3.99 | 20 0204 4.00 | 5 0022 1.86 | 20 0513 4.39 | 5 0013 1.86 | 20 0556 5.01 | 5 0624 4.48 | 20 1203 1.86 | 5 1217 2.35 | 20 1807 5.55 | 5 1823 4.97 | 20 2231 1.55 | 0556 | 5.01 |
| 0919 1.58 | 20 0740 1.93 | 0957 2.18 | 20 0812 2.14 | 0626 4.29 | 20 1112 1.99 | 0624 4.48 | 20 1203 1.86 | 1217 2.35 | 20 1807 5.55 | 1217 2.35 | 20 1807 5.55 | 1823 4.97 | 20 2231 1.55 | 0556 | 5.01 |
| TH 1550 5.01 | FR 1410 4.67 | 1644 4.88 | SU 1503 4.86 | 1216 2.23 | WE 1732 5.52 | 1732 5.52 | 1732 5.52 | 1217 2.35 | 20 1807 5.55 | 1217 2.35 | 20 1807 5.55 | 1823 4.97 | 20 2231 1.55 | 0556 | 5.01 |
| 2221 2.14 | 2031 2.41 | 2352 2.10 | 2157 2.31 | 1833 5.10 | 2306 1.74 | 2306 1.74 | 2306 1.74 | 1217 2.35 | 20 1807 5.55 | 1217 2.35 | 20 1807 5.55 | 1823 4.97 | 20 2231 1.55 | 0556 | 5.01 |
| 6 0417 4.35 | 21 0215 4.09 | 6 0546 4.04 | 21 0349 3.87 | 6 0113 1.56 | 21 0017 1.37 | 6 0100 1.62 | 21 0043 1.14 | 6 0713 4.85 | 21 0703 5.43 | 6 1311 2.10 | 21 1317 1.65 | 6 1910 5.11 | 21 1911 5.56 | 0043 | 1.14 |
| 1035 1.84 | 21 0839 2.19 | 1140 2.18 | 21 0957 2.27 | 0718 4.70 | 21 0627 4.87 | 0713 4.85 | 21 0703 5.43 | 1311 2.10 | 21 1317 1.65 | 1311 2.10 | 21 1317 1.65 | 1910 5.11 | 21 1911 5.56 | 0043 | 1.14 |
| FR 1718 5.00 | SU 1532 4.59 | 1816 5.06 | MO 1642 4.99 | 1313 1.92 | TH 1230 1.66 | 1311 2.10 | 21 1317 1.65 | 1311 2.10 | 21 1317 1.65 | 1311 2.10 | 21 1317 1.65 | 1910 5.11 | 21 1911 5.56 | 0043 | 1.14 |
| 2211 2.51 | 2356 2.21 | 2334 2.00 | 2334 2.00 | 1921 5.32 | 1838 5.77 | 1921 5.77 | 1921 5.77 | 1311 2.10 | 21 1317 1.65 | 1311 2.10 | 21 1317 1.65 | 1910 5.11 | 21 1911 5.56 | 0043 | 1.14 |
| 7 0007 2.09 | 22 0402 3.87 | 7 0106 1.73 | 22 0538 4.17 | 7 0152 1.30 | 22 0116 0.99 | 7 0139 1.39 | 22 0140 0.93 | 7 0751 5.20 | 22 0726 5.37 | 7 1356 1.85 | 22 1421 1.43 | 7 1950 5.21 | 22 2007 5.53 | 0140 | 0.93 |
| 0558 4.26 | 22 1028 2.25 | 0703 4.42 | 22 1139 2.00 | 0756 5.05 | 22 0726 5.37 | 0751 5.20 | 22 0759 5.82 | 1356 1.85 | 22 1421 1.43 | 1356 1.85 | 22 1421 1.43 | 1950 5.21 | 22 2007 5.53 | 0140 | 0.93 |
| SA 1205 1.83 | SU 1714 4.81 | 1258 1.89 | TU 1805 5.39 | 1356 1.66 | FR 1335 1.33 | 1356 1.66 | 1356 1.66 | 1356 1.66 | 22 1421 1.43 | 1356 1.66 | 22 1421 1.43 | 1950 5.21 | 22 2007 5.53 | 0140 | 0.93 |
| 1844 5.24 | 2356 2.21 | 1917 5.37 | 2017 5.37 | 1959 5.48 | 1935 5.95 | 1935 5.95 | 1935 5.95 | 1356 1.66 | 22 1421 1.43 | 1356 1.66 | 22 1421 1.43 | 1950 5.21 | 22 2007 5.53 | 0140 | 0.93 |
| 8 0128 1.73 | 23 0553 4.09 | 8 0155 1.37 | 23 0048 1.51 | 8 0227 1.12 | 23 0208 0.70 | 8 0214 1.19 | 23 0232 0.80 | 8 0827 5.52 | 23 0849 6.14 | 8 1436 1.64 | 23 1516 1.26 | 8 2026 5.26 | 23 2058 5.46 | 0232 | 0.80 |
| 0718 4.51 | 23 1202 1.94 | 0752 4.82 | 23 0652 4.70 | 0829 5.32 | 23 0816 5.80 | 0827 5.52 | 23 0849 6.14 | 1436 1.64 | 23 1516 1.26 | 1436 1.64 | 23 1516 1.26 | 2026 5.26 | 23 2058 5.46 | 0232 | 0.80 |
| SU 1320 1.60 | MO 1833 5.28 | 1351 1.56 | WE 1254 1.55 | 1434 1.46 | SA 1432 1.08 | 1434 1.46 | 1434 1.46 | 1434 1.46 | 23 0849 6.14 | 1434 1.46 | 23 0849 6.14 | 2026 5.26 | 23 2058 5.46 | 0232 | 0.80 |
| 1944 5.58 | 1932 5.81 | 2001 5.62 | 1907 5.84 | 2033 5.56 | 2024 6.01 | 2024 6.01 | 2024 6.01 | 2024 6.01 | 23 0849 6.14 | 2024 6.01 | 23 0849 6.14 | 2024 6.01 | 23 2058 5.46 | 0232 | 0.80 |
| 9 0222 1.36 | 24 0111 1.70 | 9 0234 1.13 | 24 0146 1.03 | 9 0257 0.99 | 24 0254 0.51 | 9 0248 1.04 | 24 0317 0.74 | 9 0900 5.78 | 24 0933 6.35 | 9 1514 1.49 | 24 1605 1.17 | 9 2102 5.25 | 24 2146 5.36 | 0317 | 0.74 |
| 0813 4.83 | 24 0707 4.55 | 0830 5.12 | 24 0747 5.22 | 0900 5.54 | 24 0902 6.12 | 0900 5.78 | 24 0933 6.35 | 1514 1.49 | 24 1605 1.17 | 1514 1.49 | 24 1605 1.17 | 2102 5.25 | 24 2146 5.36 | 0317 | 0.74 |
| MO 1415 1.33 | TU 1312 1.48 | 1432 1.33 | TH 1354 1.12 | 1507 1.24 | SU 1524 0.93 | 1507 1.24 | 1507 1.24 | 1507 1.24 | 24 1605 1.17 | 1507 1.24 | 24 1605 1.17 | 2102 5.25 | 24 2146 5.36 | 0317 | 0.74 |
| 2031 5.83 | 1932 5.81 | 2111 5.83 | 2047 6.38 | 2133 5.52 | 2155 5.78 | 2133 5.52 | 2133 5.52 | 2133 5.52 | 24 1605 1.17 | 2133 5.52 | 24 1605 1.17 | 2102 5.25 | 24 2146 5.36 | 0317 | 0.74 |
| 11 0340 1.01 | 26 0300 0.79 | 11 0337 0.94 | 26 0320 0.40 | 11 0354 0.86 | 26 0416 0.45 | 11 0353 0.89 | 26 0438 0.82 | 11 1008 6.14 | 26 1054 1.21 | 11 1631 1.33 | 26 2313 5.09 | 11 2213 5.13 | 26 2313 5.09 | 0438 | 0.82 |
| 0930 5.18 | 26 0852 5.43 | 0932 5.44 | 26 0919 5.99 | 0959 5.85 | 26 1025 6.47 | 0959 5.85 | 26 1054 1.21 | 1008 6.14 | 26 1054 1.21 | 1008 6.14 | 26 1054 1.21 | 2313 5.09 | 26 2313 5.09 | 0438 | 0.82 |
| WE 1533 1.05 | TH 1503 0.67 | 1538 1.1 | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – MACKAY OUTER HARBOUR

2019

LAT 21° 06' S LONG 149° 14' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0132 | 0.90 | 16 | 0034 | 1.47 | 1 | 0252 | 1.08 | 16 | 0158 | 1.10 | 1 | 0146 | 1.57 | |
| | 0754 | 5.23 | | 0657 | 4.73 | | 0912 | 5.57 | | 0820 | 5.67 | | 0808 | 5.23 | |
| TU | 1416 | 1.38 | WE | 1312 | 1.87 | FR | 1543 | 1.21 | SA | 1453 | 1.18 | FR | 1443 | 1.40 | |
| | 2002 | 4.82 | | 1902 | 4.47 | | 2128 | 4.65 | | 2040 | 4.77 | | 2034 | 4.53 | |
| 2 | 0222 | 0.81 | 17 | 0128 | 1.16 | 2 | 0332 | 1.01 | 17 | 0253 | 0.77 | 2 | 0235 | 1.35 | |
| | 0843 | 5.48 | | 0750 | 5.20 | | 0949 | 5.67 | | 0909 | 6.08 | | 0851 | 5.45 | |
| WE | 1509 | 1.24 | TH | 1411 | 1.52 | SA | 1620 | 1.16 | SU | 1545 | 0.84 | SA | 1522 | 1.20 | |
| | 2053 | 4.77 | | 1957 | 4.64 | | 2205 | 4.68 | | 2131 | 5.04 | | 2113 | 4.71 | |
| 3 | 0306 | 0.78 | 18 | 0218 | 0.87 | 3 | 0407 | 0.98 | 18 | 0344 | 0.49 | 3 | 0315 | 1.19 | |
| | 0925 | 5.64 | | 0839 | 5.63 | | 1022 | 5.70 | | 0956 | 6.39 | | 0926 | 5.57 | |
| TH | 1554 | 1.16 | FR | 1505 | 1.20 | SU | 1653 | 1.15 | MO | 1632 | 0.57 | SU | 1556 | 1.11 | |
| | 2136 | 4.70 | | 2049 | 4.79 | | 2238 | 4.68 | | 2218 | 5.26 | | 2146 | 4.82 | |
| 4 | 0345 | 0.79 | 19 | 0307 | 0.63 | 4 | 0437 | 0.97 | 19 | 0432 | 0.28 | 4 | 0348 | 1.09 | |
| | 1003 | 5.71 | | 0925 | 6.00 | | 1052 | 5.67 | | 1041 | 6.58 | | 0958 | 5.62 | |
| FR | 1634 | 1.14 | SA | 1556 | 0.93 | MO | 1723 | 1.18 | TU | 1717 | 0.38 | MO | 1626 | 1.08 | |
| | 2216 | 4.63 | | 2140 | 4.92 | | 2307 | 4.67 | | 2304 | 5.43 | | 2216 | 4.88 | |
| 5 | 0419 | 0.83 | 20 | 0355 | 0.43 | 5 | 0506 | 0.99 | 20 | 0520 | 0.18 | 5 | 0418 | 1.03 | |
| | 1037 | 5.72 | | 1011 | 6.29 | | 1120 | 5.62 | | 1125 | 6.61 | | 1026 | 5.62 | |
| SA | 1710 | 1.17 | SU | 1646 | 0.71 | TU | 1750 | 1.23 | WE | 1800 | 0.32 | TU | 1654 | 1.07 | |
| | 2252 | 4.55 | | 2229 | 5.03 | | 2334 | 4.65 | | 2350 | 5.51 | | 2242 | 4.93 | |
| 6 | 0451 | 0.90 | 21 | 0443 | 0.30 | 6 | 0532 | 1.04 | 21 | 0605 | 0.26 | 6 | 0446 | 0.99 | |
| | 1110 | 5.66 | | 1057 | 6.48 | | 1145 | 5.54 | | 1209 | 6.44 | | 1053 | 5.60 | |
| SU | 1743 | 1.25 | MO | 1734 | 0.57 | WE | 1815 | 1.29 | TH | 1842 | 0.40 | WE | 1720 | 1.08 | |
| | 2325 | 4.45 | | 2318 | 5.10 | | | | | | | | 2308 | 4.98 | |
| 7 | 0520 | 1.00 | 22 | 0531 | 0.26 | 7 | 0000 | 4.63 | 22 | 0035 | 5.46 | 7 | 0513 | 1.00 | |
| | 1140 | 5.55 | | 1143 | 6.52 | | 0559 | 1.13 | | 0649 | 0.51 | | 1117 | 5.54 | |
| MO | 1814 | 1.35 | TU | 1821 | 0.51 | TH | 1211 | 5.41 | FR | 1253 | 6.08 | TH | 1744 | 1.10 | |
| | 2355 | 4.34 | | | | 1840 | 1.38 | | 1923 | 6.62 | | 2335 | 5.00 | | |
| 8 | 0548 | 1.13 | 23 | 0007 | 5.10 | 8 | 0029 | 4.57 | 23 | 0121 | 5.30 | 8 | 0541 | 1.06 | |
| | 1208 | 5.40 | | 0618 | 0.36 | | 0628 | 1.29 | | 0735 | 0.93 | | 1143 | 5.04 | |
| TU | 1843 | 1.47 | WE | 1230 | 6.40 | FR | 1238 | 5.23 | SU | 1338 | 5.56 | FR | 1808 | 1.07 | |
| | | | | 1907 | 0.58 | | 1907 | 1.49 | | 2005 | 0.95 | | | | |
| 9 | 0025 | 4.24 | 24 | 0057 | 5.03 | 9 | 0100 | 4.47 | 24 | 0210 | 5.05 | 9 | 0002 | 4.97 | |
| | 0617 | 1.28 | | 0706 | 0.59 | | 0659 | 1.52 | | 0824 | 1.42 | | 0609 | 1.21 | |
| WE | 1237 | 5.24 | TH | 1317 | 6.12 | SU | 1306 | 4.98 | SU | 1427 | 4.98 | SU | 1209 | 5.22 | |
| | 1913 | 1.59 | | 1954 | 0.74 | | 1937 | 1.64 | | 2051 | 1.32 | | 1833 | 1.27 | |
| 10 | 0057 | 4.14 | 25 | 0148 | 4.89 | 10 | 0136 | 4.35 | 25 | 0308 | 4.79 | 10 | 0032 | 4.90 | |
| | 0647 | 1.48 | | 0756 | 0.96 | | 0735 | 1.80 | | 0926 | 1.89 | | 0640 | 1.43 | |
| TH | 1308 | 5.04 | FR | 1407 | 5.71 | SU | 1339 | 4.70 | MO | 1528 | 4.44 | SU | 1236 | 4.96 | |
| | 1946 | 1.72 | | 2043 | 0.97 | | 2013 | 1.79 | | 2150 | 1.66 | | 1858 | 1.43 | |
| 11 | 0135 | 4.02 | 26 | 0244 | 4.73 | 11 | 0222 | 4.23 | 26 | 0423 | 4.61 | 11 | 0104 | 4.78 | |
| | 0723 | 1.72 | | 0851 | 1.38 | | 0822 | 2.10 | | 1058 | 2.16 | | 0713 | 1.70 | |
| FR | 1344 | 4.80 | SA | 1502 | 5.25 | | 1424 | 4.39 | | TU | 1653 | 4.08 | | 1306 | 4.65 |
| | 2026 | 1.85 | | 2138 | 1.20 | | 2105 | 1.92 | | 2312 | 1.85 | | 1928 | 1.61 | |
| 12 | 0222 | 3.90 | 27 | 0350 | 4.61 | 12 | 0330 | 4.18 | 27 | 0555 | 4.66 | 12 | 0142 | 4.64 | |
| | 0808 | 2.00 | | 0958 | 1.76 | | 0936 | 2.33 | | 1242 | 2.04 | | 0756 | 1.98 | |
| SA | 1429 | 4.56 | SU | 1607 | 4.81 | | 1538 | 4.12 | | WE | 1831 | 4.06 | | 1347 | 4.32 |
| | 2117 | 1.93 | | 2242 | 1.37 | | 2223 | 1.95 | | | | | 2010 | 1.82 | |
| 13 | 0325 | 3.86 | 28 | 0507 | 4.62 | 13 | 0500 | 4.32 | 28 | 0039 | 1.79 | 13 | 0241 | 4.50 | |
| | 0909 | 2.25 | | 1125 | 1.96 | | 1118 | 2.32 | | 0713 | 4.93 | | 0903 | 2.23 | |
| SU | 1529 | 4.35 | MO | 1724 | 4.52 | | 1714 | 4.05 | | TH | 1353 | 1.70 | | 1455 | 3.98 |
| | 2223 | 1.91 | | 2355 | 1.42 | | 2348 | 1.78 | | 1943 | 4.29 | | 2122 | 2.01 | |
| 14 | 0443 | 3.97 | 29 | 0628 | 4.81 | 14 | 0620 | 4.70 | | | | 14 | 0411 | 4.49 | |
| | 1036 | 2.35 | | 1256 | 1.87 | | 1246 | 2.01 | | | | | 0648 | 2.27 | |
| MO | 1646 | 4.26 | TU | 1844 | 4.43 | | 1836 | 4.22 | | | | | 1644 | 3.85 | |
| | 2334 | 1.75 | | | | | | | | | | 2308 | 1.98 | | |
| 15 | 0557 | 4.29 | 30 | 0105 | 1.33 | 15 | 0058 | 1.46 | | | | 15 | 0547 | 4.76 | |
| | 1203 | 2.19 | | 0736 | 5.10 | | 0725 | 5.19 | | | | | 1227 | 1.95 | |
| TU | 1759 | 4.32 | WE | 1406 | 1.61 | | 1355 | 1.59 | | | | | 1822 | 4.08 | |
| | | | | 1952 | 4.49 | | 1943 | 4.49 | | | | | 2010 | 4.47 | |
| 31 | 0204 | 1.19 | | | | | | | | | | 31 | 0209 | 1.61 | |
| | 0829 | 5.38 | | | | | | | | | | | 0820 | 5.22 | |
| TH | 1500 | 1.37 | | | | | | | | | | | 1451 | 1.22 | |
| | 2045 | 4.59 | | | | | | | | | | | 2047 | 4.72 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – MACKAY OUTER HARBOUR

2019

LAT 21° 06' S LONG 149° 14' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

| | Time | m | Time | m |
|----------|------|------|-----------|-----------|
| 1 | 0246 | 1.41 | 16 | 0303 0.87 |
| | 0846 | 5.16 | | 0854 5.60 |
| WE | 1511 | 0.98 | TH | 1523 0.40 |
| | 2112 | 5.08 | | 2128 5.70 |

| | | | | |
|----------|------|------|-----------|-----------|
| 2 | 0320 | 1.25 | 17 | 0350 0.78 |
| | 0916 | 5.20 | | 0938 5.49 |
| TH | 1540 | 0.87 | FR | 1602 0.37 |
| | 2143 | 5.27 | | 2209 5.87 |

| | | | | |
|----------|------|------|-----------|-----------|
| 3 | 0354 | 1.14 | 18 | 0435 0.77 |
| | 0946 | 5.19 | | 1020 5.32 |
| FR | 1609 | 0.79 | SA | 1639 0.41 |
| | 2213 | 5.43 | | 2248 5.93 |

| | | | | |
|----------|------|------|-----------|-----------|
| 4 | 0428 | 1.08 | 19 | 0517 0.84 |
| | 1017 | 5.12 | | 1101 5.07 |
| SA | 1639 | 0.76 | SU | 1714 0.54 |
| | 2244 | 5.55 | | 2327 5.88 |

| | | | | |
|----------|------|------|-----------|-----------|
| 5 | 0503 | 1.08 | 20 | 0558 1.01 |
| | 1049 | 5.00 | | 1143 4.75 |
| SU | 1709 | 0.78 | MO | 1748 0.78 |
| ● | 2317 | 5.60 | | |

| | | | | |
|----------|------|------|-----------|-----------|
| 6 | 0539 | 1.15 | 21 | 0006 5.69 |
| | 1123 | 4.82 | | 0640 1.25 |
| MO | 1739 | 0.88 | TU | 1224 4.40 |
| | 2353 | 5.57 | | 1822 1.09 |

| | | | | |
|----------|------|------|-----------|-----------|
| 7 | 0617 | 1.28 | 22 | 0044 5.41 |
| | 1200 | 4.58 | | 0722 1.53 |
| TU | 1812 | 1.05 | WE | 1306 4.06 |

| | | | | |
|----------|------|------|-----------|-----------|
| 8 | 0031 | 5.46 | 23 | 0124 5.08 |
| | 0700 | 1.46 | | 0810 1.79 |
| WE | 1242 | 4.31 | TH | 1356 3.77 |
| | 1850 | 1.27 | | 1935 1.81 |

| | | | | |
|----------|------|------|-----------|-----------|
| 9 | 0116 | 5.29 | 24 | 0211 4.76 |
| | 0752 | 1.64 | | 0909 1.97 |
| TH | 1336 | 4.05 | FR | 1458 3.59 |
| | 1939 | 1.54 | | 2029 2.13 |

| | | | | |
|-----------|------|------|-----------|-----------|
| 10 | 0215 | 5.11 | 25 | 0312 4.50 |
| | 0902 | 1.74 | | 1023 2.00 |
| FR | 1452 | 3.87 | SA | 1618 3.57 |
| | 2051 | 1.78 | | 2150 2.34 |

| | | | | |
|-----------|------|------|-----------|-----------|
| 11 | 0331 | 5.01 | 26 | 0428 4.38 |
| | 1025 | 1.66 | | 1136 1.88 |
| SA | 1625 | 3.94 | SU | 1740 3.77 |
| | 2224 | 1.83 | | 2322 2.31 |

| | | | | |
|-----------|------|------|-----------|-----------|
| 12 | 0456 | 5.09 | 27 | 0542 4.44 |
| | 1146 | 1.39 | | 1231 1.66 |
| SU | 1753 | 4.26 | MO | 1840 4.08 |
| ● | 2353 | 1.64 | ○ | |

| | | | | |
|-----------|------|------|-----------|-----------|
| 13 | 0612 | 5.30 | 28 | 0031 2.11 |
| | 1254 | 1.04 | | 0638 4.57 |
| MO | 1902 | 4.71 | TU | 1315 1.42 |

| | | | | |
|-----------|------|------|-----------|-----------|
| 14 | 0108 | 1.34 | 29 | 0123 1.86 |
| | 0714 | 5.50 | | 0722 4.71 |
| TU | 1351 | 0.72 | WE | 1352 1.20 |
| | 1958 | 5.12 | | 2001 4.75 |

| | | | | |
|-----------|------|------|-----------|-----------|
| 15 | 0210 | 1.06 | 30 | 0206 1.61 |
| | 0807 | 5.61 | | 0800 4.82 |
| WE | 1440 | 0.51 | TH | 1427 1.00 |
| | 2046 | 5.45 | | 2036 5.05 |

| | | |
|-----------|------|------|
| 31 | 0247 | 1.40 |
| | 0836 | 4.88 |
| FR | 1500 | 0.84 |

JUNE

| | Time | m | Time | m |
|----------|------|------|-----------|-----------|
| 1 | 0326 | 1.23 | 16 | 0427 0.96 |
| | 0913 | 4.89 | | 1007 4.80 |
| SA | 1535 | 0.72 | SU | 1619 0.60 |
| | 2147 | 5.54 | | 2235 5.81 |

| | | | | |
|----------|------|------|-----------|-----------|
| 2 | 0406 | 1.11 | 17 | 0508 0.99 |
| | 0951 | 4.85 | | 1049 4.64 |
| SU | 1610 | 0.65 | MO | 1655 0.70 |
| | 2223 | 5.71 | ○ | 2313 5.76 |

| | | | | |
|----------|------|------|-----------|-----------|
| 3 | 0448 | 1.04 | 18 | 0548 1.08 |
| | 1030 | 4.78 | | 1130 4.46 |
| MO | 1647 | 0.63 | TU | 1729 0.86 |
| ● | 2301 | 5.82 | | 2349 5.61 |

| | | | | |
|----------|------|------|-----------|-----------|
| 4 | 0530 | 1.02 | 19 | 0626 1.23 |
| | 1111 | 4.67 | | 1209 4.26 |
| TU | 1724 | 0.68 | WE | 1802 1.08 |
| | 2341 | 5.83 | | |

| | | | | |
|----------|------|------|-----------|-----------|
| 5 | 0615 | 1.07 | 20 | 0024 5.40 |
| | 1156 | 4.51 | | 0703 1.40 |
| WE | 1805 | 0.82 | TH | 1246 4.07 |
| | | | | 1834 1.32 |

| | | | | |
|----------|------|------|-----------|-----------|
| 6 | 0026 | 5.76 | 21 | 0059 5.15 |
| | 0704 | 1.16 | | 0741 1.58 |
| TH | 1246 | 4.34 | FR | 1325 3.90 |
| | 1850 | 1.01 | | 1909 1.57 |

| | | | | |
|----------|------|------|-----------|-----------|
| 7 | 0115 | 5.61 | 22 | 0135 4.89 |
| | 0757 | 1.25 | | 0822 1.73 |
| FR | 1344 | 4.19 | SU | 1410 3.77 |
| | 1944 | 1.25 | | 1949 1.83 |

| | | | | |
|----------|------|------|-----------|-----------|
| 8 | 0211 | 5.43 | 23 | 0219 4.64 |
| | 0858 | 1.31 | | 0912 1.84 |
| SU | 1452 | 4.12 | MO | 1616 3.69 |
| | 2051 | 1.47 | | 2041 2.08 |

| | | | | |
|----------|------|------|-----------|-----------|
| 9 | 0317 | 5.27 | 24 | 0313 4.42 |
| | 1006 | 1.27 | | 1013 1.86 |
| SU | 1609 | 4.19 | MO | 1616 3.72 |
| | 2207 | 1.58 | | 2153 2.25 |

| | | | |
| --- | --- | --- | --- |
| **10** | 0430 | 5.19 | **25**</ |

AUSTRALIA, EAST COAST – MACKAY OUTER HARBOUR

2019

LAT 21° 06' S LONG 149° 14' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| Time | m | |
| 1 0619 0.11 | 16 0555 0.95 | 1 0004 5.63 | 16 0546 0.95 | 1 0114 4.17 | 16 0019 4.09 | 1 0146 3.79 | 16 0112 4.14 | 2 0246 3.60 | 17 0213 4.05 | 3 0402 3.56 | 18 0326 4.06 | 5 0018 1.58 | 20 0600 4.58 | 7 0142 1.16 | 22 0143 0.67 | |
| 1212 5.32 | 1151 4.75 | 0628 0.27 | 1153 5.01 | 0714 1.21 | 0626 1.22 | 0730 1.63 | 0713 1.21 | 0823 1.98 | 0812 1.45 | 0936 2.22 | 0923 1.63 | 1030 4.86 | 1339 5.42 | 1213 4.42 | 1549 5.14 | |
| SU 1827 0.24 | MO 1758 1.09 | TU 1232 5.51 | WE 1810 1.32 | FR 1341 5.03 | SA 1251 5.11 | 1403 4.86 | MO 1339 5.42 | 2058 1.79 | 2128 1.38 | 2139 1.78 | 2237 1.27 | 2207 1.86 | 2126 1.38 | 2128 1.38 | 2344 1.08 | |
| 2356 4.93 | 2356 4.93 | 1854 0.72 | 2355 4.46 | 2025 1.65 | 1928 1.63 | 2058 1.79 | 2128 1.38 | 2141 1.87 | 2031 1.74 | 2150 1.70 | 2237 1.27 | 2207 1.86 | 2126 1.38 | 2128 1.38 | 2344 1.08 | |
| 2 0029 6.00 | 17 0619 1.08 | 2 0048 5.10 | 17 0611 1.12 | 2 0213 3.73 | 17 0107 3.85 | 2 0246 3.60 | 17 0213 4.05 | 3 0402 3.56 | 18 0326 4.06 | 5 0018 1.58 | 20 0600 4.58 | 7 0142 1.16 | 22 0143 0.67 | 9 0249 0.84 | 24 0319 0.50 | |
| 0700 0.27 | 1219 4.66 | 0706 0.63 | 1224 4.88 | 0803 1.67 | 0709 1.47 | 0823 1.98 | 0812 1.45 | 0942 1.83 | 1044 1.68 | 1106 2.25 | 1104 1.68 | 1106 2.25 | 1104 1.68 | 1207 2.09 | 1207 1.51 | |
| MO 1258 5.22 | TU 1826 1.32 | WE 1318 5.24 | TH 1844 1.55 | SA 1441 4.67 | SU 1344 4.94 | 1455 4.82 | MO 1455 4.82 | 1618 4.87 | 1729 4.47 | 1618 4.87 | 1728 4.42 | 1728 4.42 | 1702 5.10 | 1702 5.10 | 1811 5.11 | 1811 5.11 |
| 1913 0.59 | 1944 1.19 | 1944 1.19 | 2210 1.90 | 2028 2.00 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 | 2311 1.45 |
| 3 0114 5.52 | 18 0021 4.65 | 3 0137 4.50 | 18 0026 4.16 | 3 0331 3.48 | 18 0215 3.67 | 3 0402 3.56 | 18 0326 4.06 | 5 0026 1.57 | 20 0517 3.97 | 6 0116 1.30 | 21 0021 1.08 | 6 0104 1.37 | 21 0047 0.86 | 8 0229 0.91 | 23 0234 0.55 | |
| 0742 0.56 | 0643 1.25 | 0749 1.08 | 0639 1.34 | 0912 2.04 | 0813 1.72 | 0716 4.38 | 0706 4.98 | 0629 4.04 | 1114 1.69 | 0721 4.24 | 0630 4.44 | 0716 4.38 | 0706 4.98 | 1439 1.45 | 1518 1.03 | |
| TU 1347 5.02 | WE 1249 4.52 | TH 1411 4.90 | FR 1300 4.72 | SU 1559 4.45 | MO 1455 4.82 | 1316 1.87 | SA 1320 1.39 | 1219 1.96 | 1736 5.08 | 1316 1.68 | 1232 1.39 | 1315 1.87 | 1320 1.39 | 1913 4.63 | 1913 5.10 | |
| 2003 1.06 | 1859 1.59 | 2043 1.63 | 1926 1.80 | 1836 4.66 | 1836 4.66 | 1924 4.85 | 1913 5.10 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1913 5.10 | 2028 4.74 | 2100 4.98 | |
| 4 0203 4.93 | 19 0048 4.33 | 4 0236 3.94 | 19 0106 3.84 | 4 0511 3.54 | 19 0346 3.68 | 4 0524 3.73 | 19 0445 4.24 | 6 0236 1.57 | 20 0517 3.97 | 7 0156 1.07 | 22 0119 0.72 | 7 0142 1.16 | 22 0143 0.67 | 8 0229 0.91 | 23 0234 0.55 | |
| 0827 0.93 | 0709 1.45 | 0841 1.54 | 0716 1.59 | 1054 2.15 | 0942 1.83 | 0830 5.01 | 0852 5.66 | 0629 4.04 | 1114 1.69 | 0800 4.56 | 0728 4.91 | 0756 4.71 | 0802 5.36 | 1439 1.45 | 1518 1.03 | |
| WE 1443 4.77 | TH 1324 4.37 | FR 1519 4.59 | SA 1351 4.54 | 2210 1.90 | 2028 2.00 | 1436 1.27 | SA 1434 0.84 | 1436 1.27 | 2026 5.52 | 1436 1.27 | 2026 5.52 | 1436 1.27 | 1436 1.27 | 2028 4.74 | 2100 4.98 | |
| 2102 1.53 | 1938 1.88 | 2210 1.90 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | 2028 2.00 | |
| 5 0302 4.35 | 20 0123 3.99 | 5 0402 3.59 | 20 0208 3.55 | 5 0026 1.57 | 20 0517 3.97 | 6 0116 1.30 | 21 0021 1.08 | 6 0104 1.37 | 21 0047 0.86 | 7 0142 1.16 | 22 0143 0.67 | 9 0249 0.84 | 24 0319 0.50 | 8 0229 0.91 | 23 0234 0.55 | |
| 0924 1.29 | 0744 1.67 | 1000 1.87 | 0817 1.86 | 0629 3.87 | 1114 1.69 | 0721 4.24 | 0630 4.44 | 0716 4.38 | 0706 4.98 | 0756 4.71 | 0802 5.36 | 1359 1.64 | 1423 1.18 | 1952 4.71 | 2009 5.06 | |
| TH 1555 4.58 | FR 1415 4.21 | SA 1650 4.48 | SU 1509 4.43 | 1219 1.96 | WE 1736 5.08 | 1316 1.68 | TH 1232 1.39 | 1315 1.87 | 1315 1.87 | 1952 4.71 | 2009 5.06 | 1952 4.71 | 2009 5.06 | 1952 4.71 | 2009 5.06 | |
| 2226 1.84 | 2037 2.13 | 2355 1.79 | 2203 2.01 | 1836 4.66 | 1836 4.66 | 1924 4.85 | 1913 5.10 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1913 5.10 | 2028 4.74 | 2100 4.98 | |
| 6 0422 3.93 | 21 0219 3.65 | 6 0549 3.64 | 21 0356 3.46 | 6 0116 1.30 | 21 0021 1.08 | 6 0104 1.37 | 21 0047 0.86 | 7 0142 1.16 | 22 0143 0.67 | 8 0229 0.91 | 23 0234 0.55 | 9 0249 0.84 | 24 0319 0.50 | 10 0302 0.89 | 25 0401 0.52 | |
| 1039 1.54 | 0845 1.89 | 1143 1.88 | 1001 1.96 | 0721 4.24 | 0630 4.44 | 0716 4.38 | 0706 4.98 | 0756 4.71 | 0802 5.36 | 1359 1.64 | 1423 1.18 | 1952 4.71 | 2009 5.06 | 1952 4.71 | 2009 5.06 | |
| FR 1723 4.58 | SA 1540 4.16 | SU 1819 4.64 | MO 1647 4.58 | 1316 1.68 | TH 1232 1.39 | 1315 1.87 | 1320 1.39 | 1315 1.87 | 1315 1.87 | 1952 4.71 | 2009 5.06 | 1952 4.71 | 2009 5.06 | 1952 4.71 | 2009 5.06 | |
| 2217 2.21 | 2217 2.21 | 2340 1.69 | 2340 1.69 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | |
| 7 0011 1.79 | 22 0408 3.46 | 7 0108 1.45 | 22 0542 3.76 | 7 0156 1.07 | 22 0119 0.72 | 7 0142 1.16 | 22 0143 0.67 | 8 0229 0.91 | 23 0234 0.55 | 9 0249 0.84 | 24 0319 0.50 | 10 0302 0.75 | 25 0401 0.52 | 11 0343 0.70 | 26 0439 0.59 | |
| 0601 3.85 | 1032 1.94 | 0705 3.99 | 1141 1.70 | 0800 4.56 | 0728 4.91 | 0756 4.71 | 0802 5.36 | 0629 4.04 | 0706 4.98 | 1436 1.27 | SA 1434 0.84 | 1436 1.27 | SA 1434 0.84 | 1436 1.27 | SA 1434 0.84 | |
| SA 1208 1.53 | SU 1720 4.39 | MO 1300 1.62 | TU 1807 4.96 | 1400 1.44 | FR 1337 1.08 | 1714 1.13 | FR 1814 1.11 | 1436 1.45 | 1518 1.03 | 1436 1.45 | 1518 1.03 | 1436 1.45 | 1518 1.03 | 1436 1.45 | 1518 1.03 | |
| 1847 4.81 | 1847 4.81 | 1920 4.92 | 1920 4.92 | 2002 4.98 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | 1924 4.85 | 1937 5.48 | |
| 8 0130 1.45 | 23 0002 1.90 | 8 0158 1.12 | 23 0052 1.22 | 8 0229 0.91 | 23 0210 0.45 | 8 0217 0.98 | 23 0234 0.55 | 9 0249 0.84 | 24 0319 0.50 | 10 0322 0.75 | 25 0401 0.52 | 11 0355 0.70 | 26 0439 0.59 | 12 0430 0.69 | 27 0517 0.73 | |
| 0721 4.07 | 0556 3.68 | 0755 4.35 | 0654 4.26 | 0833 4.81 | 0818 5.32 | 0830 5.01 | 0852 5.66 | 0903 5.26 | 0936 5.86 | 0937 5.46 | 0941 5.96 | 1011 5.61 | 1057 5.96 | 1046 5.70 | 1136 5.85 | |
| SU 1322 1.32 | MO 1205 1.64 | TU 1354 1.33 | WE 1255 1.27 | 1436 1.27 | SA 1434 0.84 | 1436 1.27 | SA 1434 0.84 | 1436 1.27 | 1436 1.27 | 1436 1.27 | 1436 1.27 | 1011 5.61 | 1057 5.96 | 1046 5.70 | 1136 5.85 | |
| 1948 5.12 | 1836 4.85 | 2005 5.14 | 1910 5.38 | 2036 5.04 | 2026 5.52 | 2028 4.74 | 2100 4.98 | 2103 4.73 | 2147 4.87 | 2103 4.73 | 2147 4.87 | 2103 4.73 | 2147 4.87 | 2103 4.73 | 2147 4.87 | |
| 9 0225 1.11 | 24 0115 1.42 | 9 0236 0.91 | 24 0149 0.77 | 9 0300 0.80 | 24 0255 0.28 | 9 0249 0.84 | 24 0319 0.50 | 10 0328 0.72 | 25 0338 0.21 | 11 0356 0.68 | 26 0417 0.23 | 11 0355 0.70 | 26 0439 0.59 | 12 0430 0.69 | 27 0517 0.73 | |
| 0816 4.35 | 0710 4.11 | 0834 4.62 | 0749 4.76 | 0904 5.01 | 0904 5.64 | 0903 5.26 | 0936 5.86 | 1092 5.10 | 1112 0.70 | 1002 5.30 | 1028 5.97 | 1011 5.61 | 1057 5.96 | 1046 5.70 | 1136 5.85 | |
| MO 1417 1.09 | TU 1314 1.20 | WE 1435 1.12 | TH 1356 0.87 | 1103 1.14 | SU 1524 0.71 | 1103 1.14 | SA 1853 1.29 | 1103 1.14 | 1103 1.14 | 1103 1.14 | 1103 1.14 | 1103 1.14 | 1103 1.14 | 1103 1.14 | 1103 1.14 | |
| 2034 5.34 | 1935 5.35 | 2041 5.26 | 2002 5.71 | 2106 5.04 | 2112 5.45 | 2106 5.04 | 2134 5.45 | 2106 5.04 | 2106 5.04 | 2106 5.04 | 2106 5.04 | 2106 5.04 | 2106 5.04 | 2106 5.04 | 2106 5.04 | |
| 10 0307 0.89 | 25 0213 0.94 | 10 0310 0.79 | 25 0237 0.42 | 10 0328 0.72 | 25 0338 0.21 | 11 0355 0.68 | 26 0417 0.23 | 11 0355 0.70 | 26 0439 0.59 | 12 0430 0.69 | 27 0517 0.73 | 13 0443 0.81 | 28 0553 0.93 | 14 0509 0.84 | 29 0036 4.25 | |
| 0858 4.56 | 0806 4.55 | 0906 4.79 | 0836 5.17 | 0933 5.18 | 0946 5.86 | 0933 5.18 | 0946 5.86 | 0933 5.18 | 0946 5.86 | 0933 5.18 | 0946 5.86 | 0933 5.18 | 0946 5.86 | 0933 5.18 | 0946 5.86 | |
| TU 1500 0.93 | WE 1413 0.78 | 1509 0.99 | FR 1449 0.57 | 1509 5.09 | 1612 0.66 | 1543 1.07 | MO 1612 0.66 | 1543 1.07 | 1543 1.07 | 1543 1.07 | 1543 1.07 | 1543 1.07 | 1543 1.07 | 1543 1.07 | 1543 1.07 | |
| 2112 5.45 | 2026 5.77 | 2114 5.30 | 2048 5.88 | 2143 5.28 | 2133 5.91 | 2143 5.28 | 2133 5.91 | 2143 5.28 | 2133 5.91 | 2143 5.28 | 2133 5.91 | 2143 5.28 | 2133 5.91 | 2143 5.28 | 2133 5.91 | |
| 11 0343 0.80 | 26 0302 0.55 | 10 0340 0.75 | 26 0321 0.18 | 11 0356 0.68 | 26 0417 0.23 | 11 0355 0.70 | 26 0439 0.59 | 11 0355 0.70 | 26 0439 0.59 | 12 0430 0.69 | 27 0517 0.73 | 13 0443 0.81 | 28 0553 0.93 | 14 0509 0.84 | 29 0036 4.25 | |
| 0933 4.66 | 0853 4.93 | 0936 4.90 | 0920 5.49 | 1002 5.30 | 1028 5.97 | 1002 5.30 | 1028 5.97 | 1002 5.30 | 1028 5.97 | 1002 5.30 | 1028 5.97 | 1002 5.30 | 1028 5.97 | 1002 5.30 | 1028 5.97 | |
| WE 1536 0.85 | TH 1505 0.44 | 1540 0.93 | SA 1538 0.39 | 1616 1.04 | TU 1658 0.70 | 1616 1.04 | TH 1658 0.70 | 1616 1 | | | | | | | | |

AUSTRALIA, EAST COAST – BUGATTI REEF

LAT 20° 05' S LONG 150° 18' E

Times and Heights of High and Low Waters

2019

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

● First Quarter

Full Moon

Last Quarter

AUSTRALIA, EAST COAST – BUGATTI REEF

2019

LAT 20° 05' S LONG 150° 18' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|------|------|------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | | | |
| 1 0154 | 0.92 | 16 0148 | 0.74 | 1 0229 | 0.94 | 16 0317 | 0.88 | 1 0248 | 0.85 | 16 0355 | 0.83 | 1 0359 | 0.55 | 16 0439 | 0.74 | 2 0444 | 0.51 | 17 0507 | 0.77 | 3 0533 | 0.52 | 18 0532 | 0.80 | 4 0604 | 3.18 | 19 0558 | 0.83 | | | | | | | | |
| 0809 | 2.67 | 0812 | 2.91 | 0827 | 2.36 | 0920 | 2.26 | 0844 | 2.15 | 0950 | 2.01 | 1001 | 2.25 | 1037 | 2.04 | 1047 | 2.28 | 1103 | 2.03 | 1134 | 2.27 | 1129 | 2.00 | 1158 | 0.56 | 1212 | 3.33 | 1256 | 2.76 | | | | | | |
| WE 1417 | 0.62 | TH 1409 | 0.34 | SA 1423 | 0.43 | SU 1500 | 0.36 | MO 1430 | 0.27 | TU 1523 | 0.45 | 1542 | 0.12 | FR 1612 | 0.55 | 2235 | 3.33 | 2256 | 2.76 | 1542 | 0.12 | FR 1612 | 0.55 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| 2042 | 2.52 | 2051 | 2.99 | 2112 | 2.81 | 2201 | 3.13 | 2129 | 3.03 | 2223 | 3.01 | ● 2235 | 3.33 | ● 2256 | 2.76 | ● 2235 | 3.33 | ● 2256 | 2.76 | ● 2235 | 3.33 | ● 2256 | 2.76 | ● 2235 | 3.33 | ● 2256 | 2.76 | ● 2235 | 3.33 | ● 2256 | 2.76 | | | | |
| 2 0224 | 0.89 | 17 0235 | 0.74 | 2 0305 | 0.89 | 17 0402 | 0.89 | 2 0331 | 0.76 | 17 0433 | 0.83 | 2 0444 | 0.51 | 17 0507 | 0.77 | 3 0533 | 0.52 | 18 0532 | 0.80 | 4 0604 | 3.18 | 19 0558 | 0.83 | | | | | | | | | | | | |
| 0836 | 2.64 | 0854 | 2.79 | 0904 | 2.31 | 0959 | 2.13 | 0928 | 2.15 | 1025 | 1.96 | 1047 | 2.28 | 1103 | 2.03 | 0625 | 0.56 | 1158 | 1.97 | 0625 | 0.56 | 1158 | 1.97 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| TH 1439 | 0.59 | FR 1446 | 0.32 | SU 1453 | 0.38 | MO 1536 | 0.43 | 2147 | 2.93 | ○ 2238 | 3.09 | 1510 | 0.23 | WE 1557 | 0.50 | 2209 | 3.16 | ○ 2255 | 2.93 | 1510 | 0.23 | WE 1557 | 0.50 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| 2108 | 2.62 | 2133 | 3.11 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | | | | |
| 3 0253 | 0.87 | 18 0321 | 0.77 | 3 0343 | 0.85 | 18 0444 | 0.91 | 3 0416 | 0.71 | 18 0509 | 0.85 | 5 0553 | 2.97 | 20 0008 | 2.39 | 6 0824 | 0.65 | 21 0039 | 2.23 | 7 0931 | 0.68 | 22 0120 | 2.05 | 8 1038 | 0.67 | 23 0223 | 1.87 | 9 1141 | 0.62 | 24 0352 | 1.77 | | | | |
| 0902 | 2.59 | 0935 | 2.63 | 0943 | 2.24 | 1037 | 2.00 | 1013 | 2.13 | 1057 | 1.91 | 0721 | 0.61 | 0628 | 0.86 | 1611 | 2.25 | 1443 | 1.90 | 1611 | 2.25 | 1443 | 1.90 | 1328 | 2.19 | TU 1236 | 1.93 | 1908 | 0.75 | 1814 | 0.99 | 1908 | 0.75 | 1814 | 0.99 |
| FR 1500 | 0.56 | SA 1521 | 0.35 | MO 1528 | 0.36 | TU 1611 | 0.51 | 1553 | 0.23 | TH 1629 | 0.57 | 1328 | 2.19 | TU 1236 | 1.93 | 1227 | 2.24 | MO 1737 | 0.85 | 1227 | 2.24 | MO 1737 | 0.85 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| 2135 | 2.72 | 2213 | 3.16 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | ● 2251 | 3.22 | 2326 | 2.83 | ● 2224 | 3.02 | 2315 | 3.00 | | | | |
| 4 0323 | 0.87 | 19 0406 | 0.84 | 4 0425 | 0.83 | 19 0529 | 0.94 | 4 0503 | 0.68 | 19 0545 | 0.88 | 5 0557 | 0.69 | 20 0621 | 0.91 | 6 0844 | 0.65 | 21 0704 | 0.88 | 7 0931 | 0.68 | 22 0754 | 0.89 | 8 1038 | 0.67 | 23 0900 | 0.88 | 9 1141 | 0.62 | 24 1013 | 0.81 | | | | |
| 0931 | 2.53 | 1014 | 2.43 | 1023 | 2.16 | 1115 | 1.89 | 1058 | 2.10 | 1128 | 1.86 | 1047 | 2.28 | 1024 | 0.50 | 1227 | 2.24 | MO 1737 | 0.85 | 1227 | 2.24 | MO 1737 | 0.85 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| SA 1524 | 0.53 | SU 1557 | 0.42 | TU 1605 | 0.37 | WE 1646 | 0.62 | 1638 | 0.28 | FR 1701 | 0.66 | 1647 | 0.43 | TH 1721 | 0.74 | 1727 | 0.38 | SA 1732 | 0.77 | 1727 | 0.38 | SA 1732 | 0.77 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| 2204 | 2.80 | 2252 | 3.13 | 2304 | 3.06 | 2350 | 2.88 | 2336 | 3.22 | 2355 | 2.72 | ● 2345 | 1.12 | 2211 | 1.29 | ● 2345 | 1.12 | 2211 | 1.29 | ● 2345 | 1.12 | 2211 | 1.29 | ● 2345 | 1.12 | 2211 | 1.29 | ● 2345 | 1.12 | 2211 | 1.29 | | | | |
| 5 0356 | 0.87 | 20 0451 | 0.91 | 5 0513 | 0.84 | 20 0615 | 0.98 | 5 0557 | 0.69 | 20 0621 | 0.91 | 5 0721 | 0.61 | 20 0628 | 0.86 | 6 0824 | 0.65 | 21 0704 | 0.88 | 7 0931 | 0.68 | 22 0754 | 0.89 | 8 1038 | 0.67 | 23 0900 | 0.88 | 9 1141 | 0.62 | 24 1013 | 0.81 | | | | |
| 1002 | 2.43 | 1053 | 2.22 | 1106 | 2.06 | 1152 | 1.79 | 1148 | 2.05 | 1200 | 1.81 | 1047 | 2.28 | 1024 | 0.50 | 1227 | 2.24 | MO 1737 | 0.85 | 1227 | 2.24 | MO 1737 | 0.85 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| SU 1552 | 0.51 | MO 1632 | 0.52 | WE 1647 | 0.43 | TH 1721 | 0.74 | 1727 | 0.38 | SA 1732 | 0.77 | 1727 | 0.38 | SA 1732 | 0.77 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | 1716 | 0.30 | SU 1708 | 0.72 | 2319 | 3.30 | 2320 | 2.65 | | | | |
| ● 2237 | 2.86 | 2332 | 3.04 | 2348 | 3.06 | ● 2350 | 2.88 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | | | | |
| 6 0432 | 0.90 | 21 0540 | 1.00 | 6 0607 | 0.86 | 21 0615 | 0.98 | 6 0657 | 0.71 | 21 0700 | 0.95 | 6 0824 | 0.65 | 21 0704 | 0.88 | 7 0931 | 0.68 | 22 0754 | 0.89 | 8 1038 | 0.67 | 23 0900 | 0.88 | 9 1141 | 0.62 | 24 1013 | 0.81 | 10 1227 | 0.67 | 25 1236 | 1.93 | | | | |
| 1036 | 2.32 | 1132 | 2.02 | 1155 | 1.96 | 1207 | 1.02 | 1223 | 1.70 | 1233 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | 1223 | 1.70 | | | | |
| MO 1623 | 0.52 | TU 1708 | 0.66 | TH 1734 | 0.53 | WE 1723 | 0.53 | 1734 | 1.70 | 1758 | 0.88 | ● 2235 | 3.02 | 2315 | 3.00 | ● 2235 | 3.02 | 2315 | 3.00 | ● 2235 | 3.02 | 2315 | 3.00 | ● 2235 | 3.02 | 2315 | 3.00 | ● 2235 | 3.02 | 2315 | 3.00 | | | | |
| 2315 | 2.88 | 2332 | 3.04 | 2348 | 3.06 | ● 2350 | 2.88 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | | | | |
| 7 0515 | 0.94 | 22 0635 | 1.08 | 7 0638 | 3.00 | 22 0806 | 1.05 | 7 0803 | 0.72 | 22 0743 | 0.98 | 7 0931 | 0.68 | 22 0754 | 0.89 | 8 1038 | 0.67 | 23 0900 | 0.88 | 9 1141 | 0.62 | 24 1013 | 0.81 | 10 1227 | 0.67 | 25 1236 | 1.93 | | | | | | | | |
| 1114 | 2.18 | 1214 | 1.84 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | 1254 | 1.86 | 1328 | 1.63 | | | | |
| TU 1658 | 0.57 | WE 1746 | 0.83 | 1746 | 0.83 | 1828 | 0.67 | 1843 | 1.04 | 1828 | 0.67 | 1843 | 1.04 | 1828 | 0.67 | 1843 | 1.04 | 1828 | 0.67 | 1843 | 1.04 | 1828 | 0.67 | 1843 | 1.04 | 1828 | 0.67 | 1843 | 1.04 | | | | | | |
| 2357 | 2.86 | 2332 | 3.04 | 2348 | 3.06 | ● 2350 | 2.88 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | ● 2355 | 2.72 | | | | |
| 8 0605 | 1.01 | 23 0744 | 1.14 | 8 0834 | 0.88 | 23 0909 | 1.04 | 8 0912 | 0.70 | 23 0832 | 0.98 | 8 1012 | 0.70 | 23 0900 | 0.88 | 9 1141 | 0.62 | 24 1013 | 0.81 | 10 1227 | 0.67 | 25 1236 | 1.93 | | | | | | | | | | | | |
| 1158 | 2.01 | 1206 | 1.64 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | 1446 | 1.62 | 1409 | 1.81 | | | | | | |
| WE 1741 | 0.66 | TH 1829 | 1.01 | 1829 | 1.01 | 1936 | 0.84 | 1942 | 1.20 | 1936 | 0.84 | 1942 | 1.20 | 1936 | 0.84 | 1942 | 1.20 | 1936 | 0.84 | 1942 | 1.20 | 1936 | 0.84 | 1942 | 1.20 | 1936 | 0.84 | 1942 | 1.20 | | | | | | |
| 9 0047 | 2.80 | 24 0909 | 1.14 | 9 0950 | 0.81 | 24 1008 | 0.99 | 9 1015 | 0.65 | 24 0926 | 0.94 | 9 1047 | 0.81 | 24 0941 | 0.94 | 10 1141 | 0.62 | 25 1236 | 1.93 | 11 1227 | 0.67 | 26 1236 | 1.93 | 12 1328 | 0.62 | 27 1328 | 2.20 | 13 1438 | 0.46 | 28 1438 | 0.46 | | | | |
| 0711 | 1.07 | 1026 | 1.08 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | 1051 | 0.70 | 1059 | 0.91 | | | | |
| TH 1416 | 1.75 | SA 1616 | 1.64 | 1703 | 2.07 | 1725 | 1.83 | 1703 | 2.07 | 1725 | 1.83 | 1703 | 2.07 | 1725 | | | | | | | | | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – BUGATTI REEF

2019

LAT 20° 05' S LONG 150° 18' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | |
|---------------------|----|--------------|---|---------------------|------|-----------|---|---------------------|----|-----------|---|---------------------|-----------|-----------|------|--|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
| 1 0502 0.37 | 16 | 0445 0.67 | | 1 0510 0.35 | 16 | 0428 0.55 | | 1 0019 1.90 | 16 | 0510 0.57 | | 1 0051 1.66 | 16 | 0018 1.84 | | |
| 1117 2.55 | | 1102 2.23 | | 1147 2.77 | 16 | 1110 2.47 | | 0600 0.68 | 16 | 1220 2.66 | | 0614 0.89 | 16 | 0553 0.62 | | |
| SU 1702 0.32 | | MO 1645 0.75 | | TU 1739 0.67 | WE | 1702 0.89 | | 1310 2.66 | SA | 1840 1.03 | | 1335 2.60 | MO | 1303 2.90 | | |
| 2339 3.05 | | 2306 2.40 | | 2356 2.47 | | 2304 2.09 | | 1953 1.08 | | | | 2053 1.07 | | 1949 0.93 | | |
| 2 0547 0.43 | 17 | 0508 0.69 | | 2 0553 0.49 | 17 | 0456 0.58 | | 2 0121 1.66 | 17 | 0020 1.70 | | 2 0209 1.57 | 17 | 0124 1.78 | | |
| 1207 2.51 | | 1131 2.21 | | 1239 2.66 | 17 | 1146 2.44 | | 0652 0.89 | 17 | 0558 0.68 | | 0715 1.08 | 17 | 0654 0.78 | | |
| MO 1753 0.55 | | TU 1716 0.85 | | WE 1839 0.90 | TH | 1743 0.98 | | 1418 2.50 | SU | 1318 2.61 | | 1439 2.46 | TU | 1406 2.83 | | |
| 2331 2.26 | | | | 2339 1.92 | | | | 2152 1.07 | | 2005 1.05 | | 2211 1.02 | | 2108 0.88 | | |
| 3 0024 2.77 | 18 | 0534 0.71 | | 3 0045 2.13 | 18 | 0529 0.64 | | 3 0302 1.54 | 18 | 0132 1.60 | | 3 0354 1.60 | 18 | 0249 1.81 | | |
| 0636 0.53 | | 1205 2.18 | | 0641 0.66 | 18 | 1231 2.39 | | 0813 1.08 | 18 | 0702 0.82 | | 0843 1.23 | 18 | 0810 0.94 | | |
| TU 1303 2.44 | | WE 1753 0.98 | | 1341 2.52 | FR | 1838 1.09 | | 1541 2.41 | MO | 1431 2.59 | | 1551 2.38 | WE | 1517 2.77 | | |
| 1852 0.81 | | | | 2003 1.09 | | | | 2315 0.95 | | 2142 0.96 | | 2310 0.92 | | 2215 0.77 | | |
| 4 0115 2.44 | 19 | 0001 2.09 | | 4 0149 1.83 | 19 | 0022 1.74 | | 4 0458 1.63 | 19 | 0312 1.62 | | 4 0521 1.75 | 19 | 0418 1.97 | | |
| 0730 0.65 | | 0606 0.75 | | 0742 0.85 | 19 | 0612 0.74 | | 0959 1.14 | 19 | 0831 0.92 | | 1019 1.27 | 19 | 0940 1.03 | | |
| WE 1412 2.36 | | TH 1251 2.13 | | 1500 2.42 | SA | 1332 2.33 | | 1659 2.42 | TU | 1550 2.64 | | 1657 2.36 | TH | 1628 2.72 | | |
| 2011 1.05 | | 1843 1.11 | | 2213 1.11 | | 2002 1.15 | | 2251 0.80 | | | | 2355 0.80 | ● | 2310 0.64 | | |
| 5 0220 2.12 | 20 | 0040 1.89 | | 5 0332 1.65 | 20 | 0133 1.59 | | 5 0005 0.81 | 20 | 0443 1.81 | | 5 0619 1.95 | 20 | 0534 2.22 | | |
| 0838 0.77 | | 0649 0.81 | | 0911 0.98 | 20 | 0717 0.85 | | 0609 1.81 | 20 | 1004 0.92 | | 1135 1.22 | 20 | 1105 1.04 | | |
| TH 1539 2.34 | | FR 1356 2.09 | | 1632 2.41 | SU | 1455 2.33 | | 1124 1.08 | WE | 1701 2.73 | | 1751 2.37 | FR | 1733 2.68 | | |
| 2207 1.15 | | 2001 1.22 | | 2348 0.97 | | 2157 1.08 | | 1800 2.48 | ● | 2341 0.62 | | 2358 0.50 | | | | |
| 6 0350 1.88 | 21 | 0144 1.71 | | 6 0524 1.69 | 21 | 0324 1.55 | | 6 0042 0.68 | 21 | 0552 2.08 | | 6 0031 0.70 | 21 | 0636 2.52 | | |
| 0959 0.83 | | 0755 0.87 | | 1049 0.99 | 21 | 0854 0.91 | | 0654 2.01 | 21 | 1120 0.84 | | 0700 2.14 | 21 | 1216 0.99 | | |
| FR 1709 2.42 | | SA 1526 2.13 | | 1748 2.50 | MO | 1621 2.45 | | 1221 0.97 | TH | 1800 2.82 | | 1231 1.14 | SA | 1832 2.63 | | |
| ● 2356 1.05 | | 2159 1.21 | | ● | | 2315 0.90 | | 1846 2.54 | | | | 1834 2.36 | | | | |
| 7 0529 1.83 | 22 | 0331 1.61 | | 7 0042 0.80 | 22 | 0500 1.71 | | 7 0112 0.57 | 22 | 0024 0.45 | | 7 0059 0.60 | 22 | 0042 0.39 | | |
| 1119 0.80 | | 0926 0.87 | | 0633 1.85 | 22 | 1028 0.84 | | 0731 2.18 | 22 | 0648 2.38 | | 0735 2.32 | 22 | 0729 2.80 | | |
| SA 1820 2.57 | | SU 1652 2.29 | | 1201 0.89 | TU | 1731 2.65 | | 1305 0.88 | FR | 1224 0.74 | | 1314 1.07 | SU | 1316 0.93 | | |
| ● 2331 1.03 | | | | 1843 2.60 | | | | 1924 2.56 | | 1854 2.86 | | 1911 2.34 | | 1925 2.55 | | |
| 8 0101 0.88 | 23 | 0509 1.69 | | 8 0118 0.66 | 23 | 0007 0.69 | | 8 0139 0.50 | 23 | 0104 0.30 | | 8 0125 0.53 | 23 | 0122 0.32 | | |
| 0642 1.90 | | 1051 0.76 | | 0719 2.02 | 23 | 0607 1.96 | | 0803 2.33 | 23 | 0737 2.67 | | 0806 2.48 | 23 | 0815 3.02 | | |
| SU 1221 0.72 | | MO 1800 2.53 | | 1252 0.77 | WE | 1139 0.69 | | 1342 0.82 | SA | 1318 0.67 | | 1351 1.01 | MO | 1408 0.88 | | |
| 1913 2.71 | | | | 1926 2.69 | | 1828 2.85 | | 1956 2.55 | | 1942 2.84 | | 1943 2.30 | | 2013 2.44 | | |
| 9 0143 0.74 | 24 | 0026 0.81 | | 9 0147 0.56 | 24 | 0048 0.49 | | 9 0205 0.46 | 24 | 0142 0.21 | | 9 0148 0.48 | 24 | 0201 0.29 | | |
| 0733 2.00 | | 0619 1.89 | | 0756 2.16 | 24 | 0701 2.24 | | 0832 2.44 | 24 | 0824 2.90 | | 0834 2.62 | 24 | 0859 3.16 | | |
| MO 1310 0.63 | | TU 1158 0.58 | | 1332 0.68 | TH | 1238 0.53 | | 1414 0.80 | SU | 1408 0.65 | | 1424 0.96 | TU | 1455 0.86 | | |
| 1956 2.81 | | 1855 2.80 | | 2003 2.73 | | 1918 3.00 | | 2023 2.49 | | 2027 2.74 | | 2015 2.25 | | 2058 2.33 | | |
| 10 0216 0.65 | 25 | 0111 0.60 | | 10 0215 0.51 | 25 | 0128 0.32 | | 10 0227 0.45 | 25 | 0220 0.17 | | 10 0211 0.43 | 25 | 0240 0.31 | | |
| 0814 2.09 | | 0714 2.12 | | 0828 2.27 | 25 | 0749 2.51 | | 0859 2.53 | 25 | 0907 3.07 | | 0902 2.74 | 25 | 0940 3.23 | | |
| TU 1350 0.55 | | WE 1253 0.40 | | 1406 0.63 | FR | 1328 0.42 | | 1444 0.80 | MO | 1455 0.67 | | 1457 0.92 | WE | 1540 0.86 | | |
| 2033 2.85 | | 1943 3.02 | | 2034 2.72 | | 2003 3.06 | | 2048 2.41 | | 2109 2.58 | | 2048 2.19 | | 2140 2.21 | | |
| 11 0245 0.60 | 26 | 0151 0.43 | | 11 0241 0.49 | 26 | 0206 0.21 | | 11 0246 0.44 | 26 | 0257 0.18 | | 11 0239 0.40 | 26 | 0317 0.36 | | |
| 0849 2.16 | | 0803 2.34 | | 0858 2.34 | 26 | 0834 2.74 | | 0925 2.60 | 26 | 0950 3.16 | | 0933 2.85 | | 1019 3.21 | | |
| WE 1425 0.51 | | TH 1342 0.25 | | 1437 0.62 | SU | 1416 0.38 | | 1513 0.82 | TU | 1542 0.73 | | 1531 0.89 | TH | 1624 0.89 | | |
| 2105 2.85 | | 2027 3.18 | | 2101 2.67 | | 2047 3.03 | | 2114 2.32 | | 2151 2.39 | | 2124 2.13 | ● | 2220 2.10 | | |
| 12 0313 0.59 | 27 | 0230 0.31 | | 12 0304 0.49 | 27 | 0243 0.15 | | 12 0308 0.43 | 27 | 0334 0.25 | | 12 0309 0.38 | 27 | 0354 0.45 | | |
| 0920 2.20 | | 0848 2.54 | | 0924 2.39 | 27 | 0918 2.91 | | 0952 2.66 | 27 | 1031 3.16 | | 1007 2.93 | 27 | 1057 3.14 | | |
| TH 1457 0.51 | | FR 1429 0.18 | | 1505 0.64 | SU | 1502 0.41 | | 1543 0.84 | WE | 1629 0.81 | | 1609 0.88 | FR | 1708 0.93 | | |
| 2135 2.81 | | 2110 3.24 | | 2125 2.59 | | 2128 2.91 | | 2143 2.21 | ● | 2232 2.19 | | 2202 2.06 | | 2259 2.00 | | |
| 13 0339 0.60 | 28 | 0309 0.24 | | 13 0325 0.51 | 28 | 0321 0.15 | | 13 0332 0.43 | 28 | 0411 0.36 | | 13 0343 0.38 | 28 | 0432 0.56 | | |
| 0947 2.22 | | 0932 2.70 | | 0949 2.43 | 28 | 1002 3.01 | | 1022 2.70 | 28 | 1113 3.08 | | 1044 2.98 | 28 | 1134 3.02 | | |
| FR 1526 0.53 | | SA 1514 0.19 | | 1532 0.69 | MO | 1549 0.51 | | 1617 0.87 | TH | 1719 0.90 | | 1650 0.88 | SA | 1753 0.98 | | |
| 2200 2.74 | | 2152 3.18 | | 2147 2.49 | ● | 2209 2.71 | | 2214 2.10 | | 2313 1.99 | | 2242 1.99 | | 2338 1.90 | | |
| 14 0403 0.62 | 29 | 0350 0.22 | | 14 0344 0.53 | 29 | 0359 0.21 | | 14 0400 0.44 | 29 | 0449 0.51 | | 14 0421 0.42 | 29 | 0508 0.70 | | |
| 1013 2.23 | | 1016 2.79 | | 1013 2.45 | 29 | 1044 3.03 | | 1056 2.72 | 29 | 1155 2.95 | | 1124 2.99 | 29 | 1212 2.87 | | |
| SA 1553 0.58 | | SU 1601 0.29 | | MO 1559 0.75 | TU | 1637 0.65 | | 1656 0.91 | FR | 1814 0.99 | | 1739 0.90 | SU | 1843 1.03 | | |
| ● 2223 2.64 | | ● 2232 3.03 | | ● 2210 2.37 | | 2250 2.45 | | 2249 1.97 | | 2358 1.81 | | 2327 1.92 | | | | |
| 15 0425 0.65 | 30 | 0430 0.26 | | 15 0404 0.53 | 30 | 0437 0.32 | | 15 0432 0.49 | 30 | 0529 0.69 | | 15 0504 0.49 | 30 | 0019 1.81 | | |
| 1037 2.23 | | 1101 2.82 | | 1039 2.47 | 30 | 1129 2.96 | | 1134 2.71 | 30 | 1241 2.78 | | 1210 2.97 | 30 | 0546 0.86 | | |
| SU 1618 0.66 | | MO 1648 0.46 | | TU 1628 0.81 | WE | 1728 0.81 | | 1741 0.97 | SA | 1925 1.06 | | SU 1836 0.92 | MO | 1252 2.71 | | |
| 2244 2.53 | | 2313 2.78 | | 2235 2.24 | | 2332 2.17 | | 2330 1.84 | | | | 1941 1.08 | | | | |
| | | | | 31 | 0517 | 0.48 | | | | | | | 31 | 0111 | 1.73 | |
| | | | | | 1216 | 2.83 | | | | | | | 0629 | 1.03 | | |
| | | | | | TH | 1828 0.97 | | | | | | | TU | 1336 | 2.54 | |
| | | | | | | | | | | | | | 2044 | 1.09 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – SHUTE HARBOUR

2019

LAT 20° 17' S LONG 148° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0123 | 0.41 | 16 | 0021 | 0.86 | 1 | 0232 | 0.60 | 16 | 0131 | 0.65 | 1 | 0130 | 0.89 | |
| | 0756 | 3.52 | | 0702 | 3.08 | | 0908 | 3.79 | | 0818 | 3.80 | | 0806 | 3.62 | |
| TU | 1406 | 0.97 | WE | 1302 | 1.37 | FR | 1532 | 0.89 | SA | 1445 | 0.92 | FR | 1434 | 0.91 | |
| | 1957 | 3.09 | | 1846 | 2.81 | | 2117 | 2.86 | | 2026 | 2.91 | | 2026 | 2.87 | |
| 2 | 0207 | 0.39 | 17 | 0107 | 0.69 | 2 | 0307 | 0.60 | 17 | 0220 | 0.46 | 2 | 0215 | 0.81 | |
| | 0842 | 3.70 | | 0752 | 3.41 | | 0943 | 3.81 | | 0906 | 4.06 | | 0846 | 3.71 | |
| WE | 1457 | 0.91 | TH | 1404 | 1.18 | SA | 1607 | 0.89 | SU | 1530 | 0.74 | SA | 1511 | 0.84 | |
| | 2043 | 2.98 | | 1939 | 2.85 | | 2151 | 2.82 | | 2117 | 3.04 | | 2103 | 2.93 | |
| 3 | 0246 | 0.41 | 18 | 0151 | 0.53 | 3 | 0337 | 0.62 | 18 | 0307 | 0.31 | 3 | 0250 | 0.76 | |
| | 0923 | 3.79 | | 0839 | 3.70 | | 1015 | 3.78 | | 0951 | 4.24 | | 0920 | 3.73 | |
| TH | 1541 | 0.89 | FR | 1456 | 1.01 | SU | 1638 | 0.93 | MO | 1613 | 0.60 | SU | 1543 | 0.84 | |
| | 2125 | 2.87 | | 2032 | 2.88 | | 2221 | 2.79 | | 2205 | 3.16 | | 2134 | 2.95 | |
| 4 | 0319 | 0.45 | 19 | 0233 | 0.39 | 4 | 0404 | 0.65 | 19 | 0354 | 0.21 | 4 | 0319 | 0.74 | |
| | 0959 | 3.82 | | 0924 | 3.95 | | 1044 | 3.73 | | 1035 | 4.33 | | 0950 | 3.71 | |
| FR | 1621 | 0.91 | SA | 1543 | 0.86 | MO | 1706 | 0.98 | TU | 1656 | 0.52 | MO | 1610 | 0.87 | |
| | 2202 | 2.76 | | 2122 | 2.92 | | 2248 | 2.76 | | 2253 | 3.24 | | 2202 | 2.96 | |
| 5 | 0351 | 0.51 | 20 | 0317 | 0.27 | 5 | 0430 | 0.69 | 20 | 0442 | 0.21 | 5 | 0345 | 0.74 | |
| | 1032 | 3.79 | | 1008 | 4.14 | | 1110 | 3.67 | | 1120 | 4.30 | | 1017 | 3.67 | |
| SA | 1657 | 0.95 | SU | 1630 | 0.74 | TU | 1732 | 1.03 | WE | 1739 | 0.50 | TU | 1635 | 0.90 | |
| | 2235 | 2.66 | | 2213 | 2.94 | | ● | 2315 | | ○ | 2341 | 3.28 | | 2227 | 2.98 |
| 6 | 0420 | 0.59 | 21 | 0404 | 0.21 | 6 | 0457 | 0.75 | 21 | 0531 | 0.32 | 6 | 0411 | 0.75 | |
| | 1104 | 3.72 | | 1053 | 4.26 | | 1138 | 3.58 | | 1204 | 4.14 | | 1044 | 3.61 | |
| SU | 1731 | 1.02 | MO | 1716 | 0.66 | WE | 1759 | 1.08 | TH | 1824 | 0.55 | WE | 1658 | 0.93 | |
| | ● | 2306 | 2.58 | | 2305 | 2.96 | | 2344 | 2.72 | | | | | 2254 | 2.99 |
| 7 | 0447 | 0.67 | 22 | 0454 | 0.22 | 7 | 0525 | 0.84 | 22 | 0028 | 3.26 | 7 | 0439 | 0.80 | |
| | 1134 | 3.63 | | 1139 | 4.27 | | 1205 | 3.47 | | 0620 | 0.54 | | 1110 | 3.53 | |
| MO | 1802 | 1.09 | TU | 1804 | 0.64 | TH | 1828 | 1.13 | FR | 1248 | 3.86 | TH | 1724 | 0.95 | |
| | 2336 | 2.50 | | 2356 | 2.95 | | | | | 1909 | 0.66 | | ● | 2322 | 3.00 |
| 8 | 0515 | 0.77 | 23 | 0543 | 0.32 | 8 | 0016 | 2.69 | 23 | 0120 | 3.19 | 8 | 0507 | 0.88 | |
| | 1203 | 3.52 | | 1226 | 4.17 | | 0554 | 0.97 | | 0713 | 0.84 | | 1136 | 3.41 | |
| TU | 1835 | 1.16 | WE | 1854 | 0.66 | FR | 1233 | 3.33 | | SA | 1335 | 3.49 | FR | 1748 | 0.99 |
| | | | | | | | 1858 | 1.18 | | 1958 | 0.81 | | 2353 | 2.99 | |
| 9 | 0008 | 2.44 | 24 | 0049 | 2.92 | 9 | 0051 | 2.64 | 24 | 0217 | 3.10 | 9 | 0535 | 1.01 | |
| | 0545 | 0.88 | | 0636 | 0.51 | | 0624 | 1.14 | | 0816 | 1.15 | | 1200 | 3.25 | |
| WE | 1234 | 3.40 | TH | 1314 | 3.96 | SA | 1302 | 3.16 | | 1428 | 3.11 | SA | 1812 | 1.04 | |
| | 1909 | 1.22 | | 1948 | 0.72 | | 1932 | 1.23 | | 2057 | 0.97 | | | | |
| 10 | 0045 | 2.39 | 25 | 0147 | 2.87 | 10 | 0132 | 2.60 | 25 | 0330 | 3.04 | 10 | 0025 | 2.96 | |
| | 0618 | 1.03 | | 0731 | 0.77 | | 0703 | 1.33 | | 0943 | 1.38 | | 0605 | 1.16 | |
| TH | 1306 | 3.26 | FR | 1406 | 3.68 | SU | 1334 | 2.97 | MO | 1542 | 2.78 | SU | 1224 | 3.06 | |
| | 1949 | 1.27 | | 2048 | 0.79 | | 2013 | 1.27 | | 2208 | 1.06 | | 1834 | 1.09 | |
| 11 | 0128 | 2.33 | 26 | 0253 | 2.85 | 11 | 0226 | 2.58 | 26 | 0453 | 3.09 | 11 | 0101 | 2.92 | |
| | 0657 | 1.20 | | 0838 | 1.05 | | 0801 | 1.52 | | 1118 | 1.41 | | 0642 | 1.33 | |
| FR | 1344 | 3.11 | SA | 1507 | 3.38 | MO | 1420 | 2.78 | TU | 1713 | 2.63 | MO | 1250 | 2.86 | |
| | 2038 | 1.29 | | 2152 | 0.82 | | 2112 | 1.28 | ● | 2323 | 1.07 | | 1904 | 1.15 | |
| 12 | 0221 | 2.30 | 27 | 0410 | 2.90 | 12 | 0342 | 2.63 | 27 | 0612 | 3.26 | 12 | 0147 | 2.89 | |
| | 0747 | 1.39 | | 1003 | 1.25 | | 0932 | 1.66 | | 1245 | 1.26 | | 0739 | 1.50 | |
| SA | 1429 | 2.96 | SU | 1619 | 3.12 | | 1533 | 2.61 | WE | 1836 | 2.65 | | 1332 | 2.65 | |
| | 2134 | 1.27 | | 2256 | 0.81 | | 2225 | 1.22 | | | | | 1954 | 1.24 | |
| 13 | 0331 | 2.34 | 28 | 0527 | 3.06 | 13 | 0511 | 2.82 | 28 | 0033 | 0.99 | 13 | 0253 | 2.87 | |
| | 0858 | 1.55 | | 1133 | 1.31 | | 1115 | 1.61 | | 0716 | 3.46 | | 0909 | 1.62 | |
| SU | 1528 | 2.83 | MO | 1736 | 2.96 | | 1709 | 2.57 | TH | 1348 | 1.05 | WE | 1451 | 2.44 | |
| | 2235 | 1.18 | ● | | | | ● | 2336 | 1.07 | | 1938 | 2.77 | ● | 2121 | 1.29 |
| 14 | 0452 | 2.49 | 29 | 0000 | 0.75 | 14 | 0626 | 3.13 | | | | 14 | 0427 | 2.97 | |
| | 1026 | 1.61 | | 0639 | 3.30 | | 1246 | 1.41 | | | | | 1101 | 1.55 | |
| MO | 1640 | 2.77 | TU | 1256 | 1.21 | | 1825 | 2.65 | | | | | 1648 | 2.40 | |
| | ● | 2330 | 1.04 | | 1847 | 2.90 | | | | | | ● | 2258 | 1.21 | |
| 15 | 0602 | 2.76 | 30 | 0059 | 0.68 | 15 | 0037 | 0.86 | | | | 15 | 0553 | 3.23 | |
| | 1148 | 1.53 | | 0739 | 3.53 | | 0726 | 3.48 | | | | | 1234 | 1.29 | |
| TU | 1747 | 2.78 | WE | 1401 | 1.06 | | 1353 | 1.15 | | | | | 1817 | 2.56 | |
| | | | | 1948 | 2.90 | | 1930 | 2.78 | | | | | SA | 1405 | 0.88 |
| | | | | | | | | | | | | | 2005 | 2.83 | |
| 31 | 0149 | 0.62 | | | | | | | | | | 31 | 0149 | 1.03 | |
| | 0827 | 3.71 | | | | | | | | | | | 0814 | 3.53 | |
| TH | 1451 | 0.94 | | | | | | | | | | | SU | 1439 | 0.80 |
| | 2036 | 2.89 | | | | | | | | | | | 2039 | 2.95 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – SHUTE HARBOUR

2019

LAT 20° 17' S LONG 148° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|
| 1 | 0223 | 1.03 | 16 | 0237 | 0.69 | 1 | 0311 | 1.05 | 16 | 0411 | 0.80 | 1 | 0340 | 0.95 | |
| | 0836 | 3.33 | | 0847 | 3.60 | | 0900 | 2.96 | | 0957 | 2.89 | | 0914 | 2.72 | |
| WE | 1455 | 0.70 | TH | 1501 | 0.28 | SA | 1509 | 0.54 | SU | 1553 | 0.35 | MO | 1514 | 0.38 | |
| | 2108 | 3.18 | | 2126 | 3.68 | | 2147 | 3.52 | | 2233 | 3.85 | | 2206 | 3.78 | |
| 2 | 0256 | 0.99 | 17 | 0325 | 0.68 | 2 | 0351 | 1.01 | 17 | 0454 | 0.83 | 2 | 0425 | 0.86 | |
| | 0907 | 3.29 | | 0930 | 3.45 | | 0936 | 2.88 | | 1038 | 2.73 | | 1002 | 2.69 | |
| TH | 1521 | 0.67 | FR | 1537 | 0.27 | SU | 1538 | 0.50 | MO | 1628 | 0.44 | TU | 1554 | 0.32 | |
| | 2138 | 3.29 | | 2207 | 3.81 | | 2223 | 3.64 | | 2310 | 3.80 | | 2247 | 3.91 | |
| 3 | 0329 | 0.97 | 18 | 0412 | 0.71 | 3 | 0432 | 0.99 | 18 | 0538 | 0.90 | 3 | 0510 | 0.79 | |
| | 0936 | 3.22 | | 1012 | 3.26 | | 1014 | 2.78 | | 1117 | 2.58 | | 1051 | 2.67 | |
| FR | 1546 | 0.65 | SA | 1613 | 0.31 | MO | 1610 | 0.48 | TU | 1702 | 0.56 | WE | 1639 | 0.30 | |
| | 2209 | 3.39 | | 2247 | 3.86 | | 2301 | 3.73 | | 2346 | 3.69 | | 2331 | 3.98 | |
| 4 | 0404 | 0.98 | 19 | 0458 | 0.79 | 4 | 0516 | 0.98 | 19 | 0620 | 0.98 | 4 | 0558 | 0.74 | |
| | 1005 | 3.11 | | 1053 | 3.04 | | 1057 | 2.68 | | 1155 | 2.44 | | 1143 | 2.65 | |
| SA | 1611 | 0.64 | SU | 1649 | 0.41 | TU | 1647 | 0.49 | WE | 1734 | 0.71 | TH | 1729 | 0.34 | |
| | 2242 | 3.47 | | 2327 | 3.83 | | 2341 | 3.77 | | | | | FR | 1742 | 0.75 |
| 5 | 0439 | 1.02 | 20 | 0546 | 0.90 | 5 | 0604 | 0.98 | 20 | 0021 | 3.54 | 5 | 0017 | 3.96 | |
| | 1035 | 2.98 | | 1134 | 2.79 | | 1145 | 2.57 | | 0702 | 1.07 | | 0649 | 0.72 | |
| SU | 1635 | 0.65 | MO | 1724 | 0.56 | WE | 1731 | 0.56 | | TH | 1232 | 2.33 | FR | 1236 | 2.62 |
| | 2316 | 3.52 | | | | | | | | 1805 | 0.86 | | 1820 | 0.45 | |
| 6 | 0518 | 1.07 | 21 | 0006 | 3.72 | 6 | 0026 | 3.75 | 21 | 0054 | 3.37 | 6 | 0106 | 3.87 | |
| | 1108 | 2.83 | | 0636 | 1.04 | | 0657 | 0.99 | | 0746 | 1.15 | | 0744 | 0.71 | |
| MO | 1701 | 0.67 | TU | 1214 | 2.55 | TH | 1238 | 2.48 | FR | 1313 | 2.24 | SA | 1334 | 2.60 | |
| | 2352 | 3.53 | | 1758 | 0.76 | | 1821 | 0.67 | | 1842 | 1.02 | | 1916 | 0.62 | |
| 7 | 0602 | 1.14 | 22 | 0045 | 3.54 | 7 | 0116 | 3.68 | 22 | 0132 | 3.20 | 7 | 0158 | 3.70 | |
| | 1145 | 2.66 | | 0729 | 1.17 | | 0758 | 0.98 | | 0836 | 1.20 | | 0846 | 0.70 | |
| TU | 1734 | 0.74 | WE | 1257 | 2.34 | FR | 1339 | 2.41 | SA | 1402 | 2.19 | SU | 1440 | 2.61 | |
| | | | | 1832 | 0.97 | | 1921 | 0.82 | | 1928 | 1.20 | | 2019 | 0.81 | |
| 8 | 0033 | 3.50 | 23 | 0125 | 3.34 | 8 | 0213 | 3.58 | 23 | 0216 | 3.04 | 8 | 0259 | 3.51 | |
| | 0653 | 1.22 | | 0832 | 1.26 | | 0909 | 0.93 | | 0932 | 1.20 | | 0949 | 0.65 | |
| WE | 1232 | 2.49 | TH | 1348 | 2.18 | SA | 1455 | 2.41 | SU | 1507 | 2.18 | MO | 1554 | 2.70 | |
| | 1817 | 0.86 | | 1914 | 1.18 | | 2031 | 0.96 | | 2025 | 1.37 | | 2136 | 0.99 | |
| 9 | 0121 | 3.44 | 24 | 0214 | 3.15 | 9 | 0322 | 3.50 | 24 | 0312 | 2.90 | 9 | 0407 | 3.33 | |
| | 0757 | 1.26 | | 0940 | 1.27 | | 1020 | 0.80 | | 1028 | 1.15 | | 1051 | 0.58 | |
| TH | 1333 | 2.35 | FR | 1505 | 2.11 | SU | 1618 | 2.55 | MO | 1623 | 2.25 | TU | 1710 | 2.88 | |
| | 1916 | 1.01 | | 2013 | 1.38 | | 2154 | 1.03 | | 2139 | 1.48 | | 2301 | 1.06 | |
| 10 | 0221 | 3.37 | 25 | 0320 | 3.01 | 10 | 0435 | 3.47 | 25 | 0417 | 2.82 | 10 | 0517 | 3.18 | |
| | 0918 | 1.22 | | 1044 | 1.21 | | 1122 | 0.64 | | 1120 | 1.05 | | 1151 | 0.49 | |
| FR | 1455 | 2.28 | SA | 1633 | 2.17 | MO | 1733 | 2.78 | TU | 1733 | 2.42 | WE | 1821 | 3.12 | |
| | 2037 | 1.14 | | 2135 | 1.50 | | 2317 | 1.02 | | 2259 | 1.50 | | | | |
| 11 | 0340 | 3.36 | 26 | 0435 | 2.96 | 11 | 0543 | 3.46 | 26 | 0518 | 2.79 | 11 | 0024 | 1.04 | |
| | 1042 | 1.06 | | 1141 | 1.11 | | 1221 | 0.48 | | 1205 | 0.92 | | 0626 | 3.07 | |
| SA | 1635 | 2.41 | SU | 1744 | 2.34 | TU | 1841 | 3.07 | WE | 1833 | 2.65 | TH | 1247 | 0.41 | |
| | 2213 | 1.15 | | 2302 | 1.49 | | | | | | | | 1925 | 3.39 | |
| 12 | 0501 | 3.46 | 27 | 0539 | 2.98 | 12 | 0032 | 0.95 | 27 | 0011 | 1.43 | 12 | 0137 | 0.94 | |
| | 1152 | 0.82 | | 1228 | 0.98 | | 0645 | 3.42 | | 0612 | 2.79 | | 0728 | 2.97 | |
| SU | 1755 | 2.68 | MO | 1840 | 2.56 | WE | 1313 | 0.37 | | 1247 | 0.79 | | 1339 | 0.37 | |
| | 2336 | 1.03 | | | | | 1939 | 3.35 | | 1921 | 2.92 | | 2017 | 3.60 | |
| 13 | 0609 | 3.60 | 28 | 0009 | 1.40 | 13 | 0138 | 0.87 | 28 | 0113 | 1.30 | 13 | 0236 | 0.84 | |
| | 1250 | 0.59 | | 0629 | 3.03 | | 0741 | 3.33 | | 0701 | 2.79 | | 0822 | 2.88 | |
| MO | 1900 | 2.99 | TU | 1307 | 0.85 | TH | 1359 | 0.30 | FR | 1325 | 0.66 | SA | 1424 | 0.36 | |
| | | | | 1924 | 2.78 | | 2029 | 3.57 | | 2005 | 3.17 | | 2103 | 3.74 | |
| 14 | 0045 | 0.88 | 29 | 0103 | 1.29 | 14 | 0235 | 0.82 | 29 | 0208 | 1.18 | 14 | 0325 | 0.78 | |
| | 0709 | 3.68 | | 0712 | 3.06 | | 0830 | 3.20 | | 0746 | 2.78 | | 0909 | 2.79 | |
| TU | 1339 | 0.42 | WE | 1340 | 0.74 | | 1439 | 0.29 | SA | 1402 | 0.56 | | 1503 | 0.38 | |
| | 1955 | 3.27 | | 2001 | 2.99 | | 2114 | 3.73 | | 2046 | 3.41 | | 2144 | 3.79 | |
| 15 | 0145 | 0.76 | 30 | 0149 | 1.18 | 15 | 0324 | 0.80 | 30 | 0255 | 1.06 | 15 | 0408 | 0.77 | |
| | 0801 | 3.68 | | 0749 | 3.07 | | 0915 | 3.05 | | 0830 | 2.75 | | 0950 | 2.70 | |
| WE | 1422 | 0.32 | TH | 1411 | 0.66 | SA | 1517 | 0.30 | SU | 1438 | 0.46 | MO | 1539 | 0.42 | |
| | 2043 | 3.50 | | 2036 | 3.19 | | 2154 | 3.83 | | 2125 | 3.61 | | 2221 | 3.78 | |
| | | | | | | | | | | | | | | | |
| 31 | 0230 | 1.10 | | | | | | | | | | | | | |
| | 0824 | 3.03 | | | | | | | | | | | | | |
| FR | 1441 | 0.59 | | | | | | | | | | | | | |
| | 2112 | 3.36 | | | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

□ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – SHUTE HARBOUR

2019

LAT 20° 17' S LONG 148° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Time | m |
| 1 | 0559 0.32 | 16 | 0536 0.81 | 1 | 0607 0.35 | 16 | 0514 0.76 | 1 | 0111 2.35 | 16 | 0005 2.28 | 1 | 0142 2.13 | 16 | 0107 2.33 |
| 1206 | 3.13 | 1143 | 2.79 | 1233 | 3.38 | 1153 | 3.05 | 0656 | 0.84 | 0547 | 0.82 | 0705 | 1.07 | 0645 | 0.81 |
| SU 1758 | 0.32 | MO 1727 | 0.90 | TU 1839 | 0.71 | WE 1748 | 1.13 | FR 1350 | 3.27 | SA 1258 | 3.28 | SU 1406 | 3.20 | MO 1342 | 3.56 |
| | 2348 | 2.97 | | 2337 | 2.56 | | 2053 | 1.13 | 1935 | 1.24 | | 2128 | 1.15 | 2034 | 1.02 |
| 2 | 0025 3.74 | 17 | 0559 0.87 | 2 | 0044 3.02 | 17 | 0532 0.83 | 2 | 0220 2.12 | 17 | 0106 2.15 | 2 | 0302 2.07 | 17 | 0215 2.32 |
| 0644 | 0.40 | 1215 | 2.76 | 0650 | 0.55 | 1228 | 3.01 | 0750 | 1.09 | 0641 | 0.96 | 0802 | 1.28 | 0751 | 0.96 |
| MO 1256 | 3.10 | TU 1757 | 1.06 | WE 1323 | 3.26 | TH 1830 | 1.26 | SA 1500 | 3.10 | SU 1353 | 3.22 | MO 1511 | 3.04 | TU 1443 | 3.47 |
| 1850 | 0.58 | | | 1943 | 0.98 | | 2213 | 1.11 | 2051 | 1.21 | | 2230 | 1.10 | 2145 | 0.92 |
| 3 | 0111 3.39 | 18 | 0010 2.77 | 3 | 0135 2.63 | 18 | 0002 2.37 | 3 | 0359 2.07 | 18 | 0222 2.09 | 3 | 0423 2.14 | 18 | 0337 2.41 |
| 0732 | 0.53 | 0621 | 0.94 | 0739 | 0.78 | 0559 | 0.92 | 0914 | 1.27 | 0758 | 1.09 | 0924 | 1.42 | 0909 | 1.08 |
| TU 1351 | 3.04 | WE 1250 | 2.71 | TH 1425 | 3.12 | FR 1309 | 2.95 | SU 1621 | 3.03 | MO 1505 | 3.20 | TU 1623 | 2.96 | WE 1554 | 3.42 |
| 1952 | 0.88 | 1832 | 1.23 | 2108 | 1.15 | 1929 | 1.37 | 2323 | 0.99 | 2216 | 1.06 | 2327 | 1.00 | 2250 | 0.75 |
| 4 | 0203 3.00 | 19 | 0033 2.56 | 4 | 0247 2.30 | 19 | 0054 2.18 | 4 | 0521 2.20 | 19 | 0401 2.19 | 4 | 0532 2.31 | 19 | 0456 2.64 |
| 0827 | 0.68 | 0644 | 1.02 | 0844 | 0.99 | 0645 | 1.04 | 1049 | 1.29 | 0933 | 1.13 | 1053 | 1.44 | 1034 | 1.10 |
| WE 1459 | 2.98 | TH 1332 | 2.67 | FR 1547 | 3.05 | SA 1405 | 2.91 | MO 1733 | 3.07 | TU 1625 | 3.29 | WE 1726 | 2.96 | TH 1704 | 3.40 |
| 2114 | 1.12 | 1925 | 1.40 | 2238 | 1.14 | 2052 | 1.40 | ● | | 2323 | 0.82 | ● | | 2348 | 0.57 |
| 5 | 0312 2.65 | 20 | 0109 2.35 | 5 | 0428 2.19 | 20 | 0219 2.03 | 5 | 0021 0.83 | 20 | 0522 2.46 | 5 | 0016 0.88 | 20 | 0606 2.94 |
| 0935 | 0.80 | 0726 | 1.10 | 1013 | 1.09 | 0808 | 1.17 | 0626 | 2.43 | 1100 | 1.03 | 0630 | 2.54 | 1153 | 1.05 |
| TH 1620 | 3.01 | FR 1429 | 2.64 | SA 1708 | 3.09 | SU 1525 | 2.92 | TU 1201 | 1.20 | WE 1735 | 3.43 | TH 1202 | 1.38 | FR 1809 | 3.38 |
| 2248 | 1.17 | 2051 | 1.51 | | 2234 | 1.26 | ● | 1831 | 3.14 | ● | | 1819 | 2.98 | | |
| 6 | 0441 2.45 | 21 | 0222 2.15 | 6 | 0000 0.97 | 21 | 0413 2.07 | 6 | 0107 0.70 | 21 | 0020 0.56 | 6 | 0057 0.77 | 21 | 0042 0.42 |
| 1050 | 0.84 | 0846 | 1.18 | 0553 | 2.30 | 0957 | 1.17 | 0715 | 2.65 | 0628 | 2.79 | 0715 | 2.77 | 0709 | 3.26 |
| FR 1740 | 3.14 | SA 1557 | 2.71 | SU 1136 | 1.05 | MO 1655 | 3.10 | WE 1257 | 1.08 | TH 1211 | 0.87 | FR 1258 | 1.28 | SA 1305 | 0.97 |
| ● | | 2242 | 1.44 | ● | 1819 | 3.22 | ● | 2352 | 0.98 | 1916 | 3.20 | 1836 | 3.55 | 1903 | 3.00 |
| 7 | 0018 1.03 | 22 | 0420 2.09 | 7 | 0102 0.77 | 22 | 0541 2.32 | 7 | 0144 0.60 | 22 | 0110 0.36 | 7 | 0131 0.67 | 22 | 0130 0.31 |
| 0607 | 2.45 | 1028 | 1.13 | 0659 | 2.51 | 1124 | 0.99 | 0754 | 2.84 | 0725 | 3.12 | 0754 | 2.99 | 0802 | 3.54 |
| SA 1204 | 0.79 | SU 1726 | 2.94 | MO 1243 | 0.93 | TU 1805 | 3.36 | TH 1339 | 0.98 | FR 1313 | 0.74 | SA 1344 | 1.19 | SU 1408 | 0.88 |
| 1850 | 3.34 | ● | | 1914 | 3.35 | | 1953 | 3.22 | 1929 | 3.58 | 1941 | 2.98 | 2002 | 3.22 | |
| 8 | 0125 0.82 | 23 | 0014 1.18 | 8 | 0147 0.62 | 23 | 0050 0.68 | 8 | 0215 0.55 | 23 | 0154 0.22 | 8 | 0201 0.59 | 23 | 0213 0.26 |
| 0716 | 2.57 | 0552 | 2.26 | 0747 | 2.70 | 0647 | 2.64 | 1415 | 0.92 | 0815 | 3.39 | 1426 | 1.12 | MO 1502 | 0.82 |
| SU 1307 | 0.69 | MO 1146 | 0.93 | TU 1332 | 0.81 | WE 1231 | 0.75 | 2025 | 3.19 | 1409 | 0.65 | 2015 | 2.93 | 2051 | 3.08 |
| 1944 | 3.50 | 1834 | 3.26 | 1958 | 3.42 | 1904 | 3.59 | ● | | 2017 | 3.52 | | | | |
| 9 | 0216 0.65 | 24 | 0116 0.87 | 9 | 0224 0.54 | 24 | 0138 0.44 | 9 | 0243 0.53 | 24 | 0234 0.15 | 9 | 0230 0.55 | 24 | 0253 0.25 |
| 0808 | 2.70 | 0659 | 2.51 | 0826 | 2.83 | 0741 | 2.94 | 1412 | 0.73 | 1327 | 0.55 | 0902 | 3.34 | 0933 | 3.91 |
| MO 1357 | 0.60 | TU 1249 | 0.68 | WE 1412 | 0.73 | TH 1327 | 0.55 | 2034 | 3.42 | 1954 | 3.74 | 1448 | 0.90 | SU 1500 | 0.62 |
| 2029 | 3.59 | 1930 | 3.57 | | 3.42 | | ● | 2154 | 3.74 | 2103 | 3.39 | 2055 | 3.13 | 2103 | 3.39 |
| 10 | 0256 0.58 | 25 | 0204 0.61 | 10 | 0255 0.54 | 25 | 0221 0.27 | 10 | 0308 0.53 | 25 | 0311 0.13 | 10 | 0258 0.52 | 25 | 0331 0.28 |
| 0850 | 2.77 | 0754 | 2.75 | 0858 | 2.91 | 0829 | 3.19 | 0928 | 3.20 | 0944 | 3.78 | 0936 | 3.47 | 1014 | 3.97 |
| TU 1436 | 0.56 | WE 1342 | 0.45 | TH 1444 | 0.70 | FR 1417 | 0.42 | SU 1521 | 0.90 | MO 1550 | 0.63 | TU 1544 | 1.05 | WE 1636 | 0.81 |
| 2106 | 3.60 | 2020 | 3.80 | 2105 | 3.38 | 2041 | 3.78 | 2123 | 3.03 | 2147 | 3.20 | 2122 | 2.75 | 2218 | 2.80 |
| 11 | 0330 0.58 | 26 | 0247 0.42 | 11 | 0322 0.56 | 26 | 0300 0.17 | 11 | 0332 0.53 | 26 | 0348 0.16 | 11 | 0324 0.51 | 26 | 0409 0.36 |
| 0924 | 2.79 | 0843 | 2.97 | 0926 | 2.96 | 0914 | 3.40 | 0958 | 3.28 | 1026 | 3.87 | 1010 | 3.57 | 1054 | 3.95 |
| WE 1509 | 0.56 | TH 1429 | 0.28 | FR 1513 | 0.71 | SA 1505 | 0.37 | MO 1555 | 0.94 | TU 1638 | 0.69 | 1623 | 1.05 | TH 1720 | 0.86 |
| 2138 | 3.55 | 2105 | 3.94 | 2133 | 3.31 | 2124 | 3.72 | 2151 | 2.89 | 2230 | 2.98 | 2156 | 2.66 | ● 2301 | 2.66 |
| 12 | 0359 0.63 | 27 | 0327 0.29 | 12 | 0347 0.59 | 27 | 0337 0.12 | 12 | 0356 0.56 | 27 | 0426 0.25 | 12 | 0352 0.51 | 27 | 0446 0.47 |
| 0952 | 2.79 | 0928 | 3.15 | 0953 | 3.00 | 0957 | 3.56 | 1030 | 3.33 | 1108 | 3.88 | 1046 | 3.65 | 1132 | 3.86 |
| TH 1536 | 0.58 | FR 1517 | 0.18 | SA 1541 | 0.73 | SU 1553 | 0.39 | 1630 | 1.00 | WE 1728 | 0.78 | 1703 | 1.05 | FR 1804 | 0.94 |
| 2206 | 3.48 | 2149 | 3.98 | 2159 | 3.22 | 2207 | 3.56 | ● 2219 | 2.74 | ● 2315 | 2.74 | ● 2235 | 2.56 | 2341 | 2.53 |
| 13 | 0424 0.68 | 28 | 0406 0.21 | 13 | 0410 0.62 | 28 | 0414 0.13 | 13 | 0418 0.59 | 28 | 0505 0.40 | 13 | 0424 0.53 | 28 | 0520 0.62 |
| 1019 | 2.80 | 1013 | 3.29 | 1021 | 3.04 | 1041 | 3.67 | 1102 | 3.36 | 1150 | 3.78 | 1123 | 3.69 | 1209 | 3.71 |
| FR 1602 | 0.61 | SA 1604 | 0.17 | SU 1610 | 0.79 | MO 1643 | 0.48 | WE 1708 | 1.06 | TH 1820 | 0.91 | 1746 | 1.05 | SA 1847 | 1.04 |
| 2232 | 3.39 | 2232 | 3.90 | 2225 | 3.09 | ● 2251 | 3.32 | 2248 | 2.59 | | | 2319 | 2.47 | | |
| 14 | 0448 0.73 | 29 | 0445 0.18 | 14 | 0432 0.65 | 29 | 0454 0.20 | 14 | 0441 0.64 | 29 | 0000 2.50 | 14 | 0503 0.58 | 29 | 0020 2.41 |
| 1046 | 2.80 | 1059 | 3.40 | 1051 | 3.06 | 1125 | 3.69 | 1136 | 3.36 | 0543 | 0.61 | 1205 | 3.68 | 0554 | 0.80 |
| SA 1629 | 0.67 | SU 1653 | 0.27 | MO 1642 | 0.88 | TU 1734 | 0.64 | TH 1748 | 1.14 | FR 1232 | 3.62 | 1835 | 1.06 | SU 1245 | 3.52 |
| ● 2258 | 3.29 | ● 2315 | 3.71 | ● 2250 | 2.93 | 2334 | 3.01 | 2322 | 2.43 | 1917 | 1.03 | 1930 | 1.06 | 1933 | 1.14 |
| 15 | 0511 0.77 | 30 | 0526 0.23 | 15 | 0454 0.70 | 30 | 0533 0.36 | 15 | 0509 0.71 | 30 | 0047 2.28 | 15 | 0009 2.39 | 30 | 0101 2.31 |
| 1114 | 2.80 | 1145 | 3.43 | 1121 | 3.07 | 1210 | 3.62 | 1214 | 3.33 | 0621 | 0.84 | 0551 | 0.68 | 0629 | 0.98 |
| SU 1658 | 0.77 | MO 1744 | 0.46 | TU 1713 | 1.00 | WE 1830 | 0.84 | FR 1836 | 1.20 | SA 1316 | 3.41 | SU 1250 | 3.63 | MO 1321 | 3.33 |
| 2323 | 3.15 | 2359 | 3.40 | 2315 | 2.75 | | | | | 2022 | 1.13 | 1930 | 1.06 | 2022 | 1.21 |
| | | | | 31 | 0020 | 2.67 | | | | | | | | | |
| | | | | 0613 | 0.58 | | | 1934 | 1.02 | | | | | | |
| | | | | TH 1257 | 3.46 | | | | | | | | | | |
| | | | | 1934 | 1.02 | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – BOWEN

2019

LAT 20° 01' S LONG 148° 15' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0052 | 0.50 | 16 0009 | 0.89 | 1 0157 | 0.64 | 16 0107 | 0.64 |
| 0732 | 2.97 | 0647 | 2.65 | 0841 | 3.22 | 0744 | 3.32 |
| TU 1325 | 1.08 | WE 1236 | 1.40 | FR 1453 | 1.08 | SA 1401 | 1.02 |
| 1910 | 2.64 | 1821 | 2.45 | 2018 | 2.42 | 1939 | 2.59 |
| 2 0132 | 0.46 | 17 0047 | 0.71 | 2 0231 | 0.64 | 17 0154 | 0.44 |
| 0815 | 3.10 | 0725 | 2.92 | 0911 | 3.23 | 0825 | 3.54 |
| WE 1413 | 1.07 | TH 1325 | 1.24 | SA 1526 | 1.09 | SU 1444 | 0.85 |
| 1949 | 2.54 | 1904 | 2.49 | 2048 | 2.41 | 2022 | 2.71 |
| 3 0209 | 0.46 | 18 0126 | 0.54 | 3 0302 | 0.66 | 18 0240 | 0.27 |
| 0853 | 3.18 | 0804 | 3.18 | 0938 | 3.21 | 0906 | 3.69 |
| TH 1456 | 1.07 | FR 1411 | 1.09 | SU 1554 | 1.12 | MO 1527 | 0.72 |
| 2023 | 2.44 | 1946 | 2.54 | 2116 | 2.40 | 2104 | 2.79 |
| 4 0243 | 0.49 | 19 0208 | 0.38 | 4 0331 | 0.69 | 19 0325 | 0.19 |
| 0926 | 3.20 | 0843 | 3.40 | 1004 | 3.16 | 0947 | 3.75 |
| FR 1536 | 1.10 | SA 1457 | 0.96 | MO 1621 | 1.17 | TU 1610 | 0.66 |
| 2055 | 2.35 | 2029 | 2.58 | 2145 | 2.38 | 2148 | 2.83 |
| 5 0315 | 0.55 | 20 0252 | 0.26 | 5 0358 | 0.75 | 20 0409 | 0.21 |
| 0957 | 3.18 | 0925 | 3.57 | 1030 | 3.10 | 1028 | 3.70 |
| SA 1612 | 1.15 | SU 1543 | 0.86 | TU 1647 | 1.21 | WE 1654 | 0.67 |
| 2128 | 2.27 | 2114 | 2.60 | ● 2213 | 2.34 | ○ 2235 | 2.82 |
| 6 0345 | 0.62 | 21 0338 | 0.19 | 6 0425 | 0.83 | 21 0455 | 0.35 |
| 1028 | 3.12 | 1009 | 3.66 | 1054 | 3.01 | 1111 | 3.54 |
| SU 1647 | 1.21 | MO 1630 | 0.81 | WE 1715 | 1.26 | TH 1737 | 0.74 |
| ● 2202 | 2.19 | ○ 2201 | 2.58 | 2244 | 2.30 | 2325 | 2.75 |
| 7 0414 | 0.72 | 22 0424 | 0.22 | 7 0451 | 0.94 | 22 0541 | 0.60 |
| 1057 | 3.04 | 1054 | 3.65 | 1118 | 2.91 | 1155 | 3.28 |
| MO 1720 | 1.28 | TU 1718 | 0.81 | TH 1743 | 1.31 | FR 1824 | 0.85 |
| 2235 | 2.11 | 2251 | 2.52 | 2316 | 2.24 | | |
| 8 0442 | 0.83 | 23 0511 | 0.33 | 8 0519 | 1.08 | 23 0024 | 2.65 |
| 1127 | 2.94 | 1142 | 3.55 | 1143 | 2.79 | 0632 | 0.92 |
| TU 1755 | 1.35 | WE 1809 | 0.86 | FR 1815 | 1.36 | SA 1244 | 2.97 |
| 2309 | 2.03 | 2347 | 2.44 | 2353 | 2.18 | 1916 | 0.98 |
| 9 0511 | 0.96 | 24 0600 | 0.54 | 9 0550 | 1.24 | 24 0144 | 2.56 |
| 1157 | 2.83 | 1233 | 3.37 | 1211 | 2.65 | 0737 | 1.25 |
| WE 1836 | 1.42 | TH 1906 | 0.93 | SA 1853 | 1.39 | SU 1347 | 2.64 |
| 2348 | 1.95 | | | | | 2024 | 1.10 |
| 10 0541 | 1.11 | 25 0055 | 2.36 | 10 0040 | 2.12 | 25 0319 | 2.57 |
| 1230 | 2.71 | 0655 | 0.81 | 0631 | 1.42 | 0920 | 1.47 |
| TH 1935 | 1.46 | FR 1331 | 3.14 | SU 1244 | 2.51 | MO 1517 | 2.39 |
| | | 2013 | 0.98 | 1943 | 1.41 | 2152 | 1.14 |
| 11 0038 | 1.88 | 26 0224 | 2.34 | 11 0159 | 2.10 | 26 0452 | 2.68 |
| 0617 | 1.28 | 0803 | 1.10 | 0732 | 1.61 | 1110 | 1.45 |
| FR 1309 | 2.59 | SA 1439 | 2.90 | MO 1332 | 2.35 | TU 1652 | 2.27 |
| 2109 | 1.43 | 2128 | 0.97 | 2103 | 1.37 | ● 2310 | 1.09 |
| 12 0153 | 1.84 | 27 0352 | 2.43 | 12 0356 | 2.21 | 27 0609 | 2.87 |
| 0707 | 1.46 | 0933 | 1.30 | 0923 | 1.72 | 1231 | 1.30 |
| SA 1405 | 2.47 | SU 1554 | 2.70 | TU 1524 | 2.23 | WE 1812 | 2.29 |
| 2208 | 1.35 | 2240 | 0.90 | 2227 | 1.25 | | |
| 13 0347 | 1.92 | 28 0519 | 2.61 | 13 0517 | 2.45 | 28 0012 | 1.00 |
| 0829 | 1.61 | 1109 | 1.35 | 1115 | 1.62 | 0704 | 3.04 |
| SU 1526 | 2.40 | MO 1708 | 2.57 | WE 1701 | 2.24 | TH 1326 | 1.16 |
| 2253 | 1.22 | ● 2341 | 0.81 | ● 2327 | 1.07 | 1905 | 2.36 |
| 14 0507 | 2.11 | 29 0630 | 2.84 | 14 0615 | 2.75 | | |
| 1024 | 1.63 | 1228 | 1.28 | 1224 | 1.43 | | |
| MO 1637 | 2.38 | TU 1814 | 2.50 | TH 1805 | 2.33 | | |
| ● 2332 | 1.06 | | | | | | |
| 15 0602 | 2.37 | 30 0033 | 0.73 | 15 0019 | 0.86 | | |
| 1139 | 1.54 | 0723 | 3.04 | 0702 | 3.05 | | |
| TU 1733 | 2.41 | WE 1328 | 1.18 | FR 1316 | 1.22 | | |
| | | 1906 | 2.47 | 1854 | 2.45 | | |
| 31 0118 | 0.67 | | | | | | |
| 0806 | 3.16 | | | | | | |
| TH 1415 | 1.11 | | | | | | |
| 1946 | 2.44 | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – BOWEN

2019

LAT 20° 01' S LONG 148° 15' E

Times and Heights of High and Low Waters

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m |
| 1 0151 | 1.08 | 16 0158 | 0.74 | 1 0231 | 1.12 | 16 0324 | 0.96 | 1 0253 | 1.04 | 16 0402 | 0.98 | 1 0409 | 0.70 | 16 0439 | 1.00 |
| 0758 | 2.88 | 16 0751 | 3.13 | 0811 | 2.55 | 16 0852 | 2.46 | 0824 | 2.36 | 16 0921 | 2.21 | 0942 | 2.43 | 16 1008 | 2.20 |
| WE 1420 | 0.82 | TH 1422 | 0.38 | SA 1438 | 0.60 | SU 1517 | 0.42 | MO 1448 | 0.41 | TU 1538 | 0.53 | TH 1602 | 0.15 | FR 1619 | 0.71 |
| 2024 | 2.68 | 2039 | 3.11 | 2105 | 2.96 | 2157 | 3.23 | 2125 | 3.23 | 2218 | 3.13 | ● 2230 | 3.52 | 2244 | 2.87 |
| 2 0222 | 1.05 | 17 0243 | 0.75 | 2 0307 | 1.09 | 17 0408 | 1.01 | 2 0336 | 0.96 | 17 0439 | 1.03 | 2 0454 | 0.66 | 17 0506 | 1.05 |
| 0822 | 2.84 | 17 0828 | 2.99 | 0841 | 2.49 | 17 0931 | 2.32 | 0906 | 2.34 | 17 0956 | 2.14 | 1030 | 2.43 | 17 1039 | 2.16 |
| TH 1443 | 0.78 | FR 1458 | 0.36 | SU 1509 | 0.55 | MO 1552 | 0.50 | TU 1530 | 0.34 | WE 1611 | 0.61 | FR 1649 | 0.20 | SA 1647 | 0.82 |
| 2051 | 2.78 | 2120 | 3.20 | 2139 | 3.08 | ○ 2235 | 3.19 | 2206 | 3.34 | ○ 2249 | 3.05 | 2315 | 3.46 | 2308 | 2.75 |
| 3 0252 | 1.04 | 18 0327 | 0.82 | 3 0346 | 1.08 | 18 0453 | 1.09 | 3 0423 | 0.91 | 18 0514 | 1.10 | 3 0542 | 0.67 | 18 0534 | 1.11 |
| 0844 | 2.77 | 18 0905 | 2.81 | 0917 | 2.40 | 18 1011 | 2.18 | 0952 | 2.31 | 18 1032 | 2.08 | 1123 | 2.39 | 18 1112 | 2.11 |
| FR 1509 | 0.74 | SA 1535 | 0.39 | MO 1544 | 0.52 | TU 1627 | 0.62 | WE 1614 | 0.33 | TH 1642 | 0.71 | SA 1737 | 0.35 | SU 1714 | 0.96 |
| 2120 | 2.86 | 2201 | 3.23 | ● 2216 | 3.16 | 2311 | 3.10 | ● 2249 | 3.39 | 2319 | 2.94 | 2332 | 2.61 | | |
| 4 0324 | 1.06 | 19 0411 | 0.93 | 4 0430 | 1.08 | 19 0539 | 1.18 | 4 0512 | 0.89 | 19 0548 | 1.16 | 4 0602 | 3.31 | 19 0603 | 1.16 |
| 0908 | 2.68 | 19 0944 | 2.60 | 0957 | 2.31 | 19 1052 | 2.05 | 1043 | 2.26 | 19 1108 | 2.02 | 0633 | 0.71 | 1149 | 2.05 |
| SA 1536 | 0.72 | SU 1611 | 0.49 | TU 1623 | 0.54 | WE 1701 | 0.76 | 1701 | 0.37 | FR 1712 | 0.84 | 1225 | 2.34 | MO 1743 | 1.13 |
| 2150 | 2.93 | ○ 2243 | 3.20 | 2258 | 3.20 | 2348 | 2.97 | 2337 | 3.37 | 2348 | 2.81 | 1828 | 0.58 | 2356 | 2.45 |
| 5 0358 | 1.10 | 20 0458 | 1.08 | 5 0519 | 1.11 | 20 0635 | 1.26 | 5 0606 | 0.89 | 20 0626 | 1.23 | 5 0731 | 0.76 | 20 1234 | 2.00 |
| 0935 | 2.57 | 20 1025 | 2.37 | 1045 | 2.20 | 20 1136 | 1.93 | 1139 | 2.20 | 20 1147 | 1.95 | 1343 | 2.32 | TU 1819 | 1.31 |
| SU 1604 | 0.71 | MO 1646 | 0.64 | WE 1706 | 0.60 | TH 1736 | 0.92 | 1751 | 0.48 | SA 1743 | 0.99 | 1928 | 0.86 | | |
| ● 2224 | 2.97 | 2327 | 3.11 | 2347 | 3.19 | | | | | | | | | | |
| 6 0436 | 1.17 | 21 0551 | 1.24 | 6 0617 | 1.14 | 21 0028 | 2.83 | 6 0029 | 3.29 | 21 0019 | 2.67 | 6 0839 | 0.78 | 21 0719 | 1.23 |
| 1006 | 2.44 | 21 1110 | 2.15 | 1142 | 2.09 | 21 0748 | 1.31 | 0707 | 0.90 | 21 0712 | 1.28 | 1508 | 2.37 | WE 1343 | 1.98 |
| MO 1636 | 0.74 | TU 1722 | 0.82 | 1755 | 0.70 | FR 1225 | 1.84 | 1246 | 2.16 | SU 1232 | 1.88 | 2048 | 1.11 | 1911 | 1.49 |
| 2301 | 2.99 | | | 1812 | 1.10 | | | 1845 | 0.65 | 1816 | 1.16 | | | | |
| 7 0519 | 1.26 | 22 0014 | 2.97 | 7 0044 | 3.14 | 22 0114 | 2.68 | 7 0128 | 3.17 | 22 0052 | 2.52 | 7 0311 | 2.59 | 22 0101 | 2.11 |
| 1043 | 2.29 | 22 0709 | 1.35 | 0732 | 1.14 | 22 0858 | 1.30 | 0817 | 0.87 | 22 0821 | 1.30 | 0952 | 0.76 | 22 0825 | 1.23 |
| TU 1712 | 0.81 | WE 1159 | 1.95 | 1255 | 2.01 | SA 1332 | 1.77 | 1409 | 2.17 | MO 1335 | 1.84 | 1631 | 2.51 | TH 1534 | 2.06 |
| 2346 | 2.97 | 1800 | 1.02 | 1854 | 0.83 | 1856 | 1.27 | 1948 | 0.84 | 1857 | 1.34 | 2228 | 1.21 | 2058 | 1.62 |
| 8 0612 | 1.35 | 23 0111 | 2.82 | 8 0154 | 3.09 | 23 0215 | 2.55 | 8 0234 | 3.02 | 23 0135 | 2.37 | 8 1101 | 0.70 | 23 0957 | 1.15 |
| 1133 | 2.12 | 23 0848 | 1.37 | 0859 | 1.05 | 23 0958 | 1.25 | 0926 | 0.81 | 23 0931 | 1.26 | 1751 | 2.72 | FR 1656 | 2.25 |
| WE 1755 | 0.91 | TH 1306 | 1.80 | SA 1432 | 2.03 | SU 1509 | 1.78 | 1530 | 2.26 | TU 1512 | 1.87 | 2358 | 1.15 | 2310 | 1.52 |
| | | 1845 | 1.23 | 2006 | 0.96 | 2000 | 1.44 | 2105 | 1.02 | 2001 | 1.52 | | | | |
| 9 0045 | 2.92 | 24 0224 | 2.69 | 9 0307 | 3.06 | 24 0326 | 2.46 | 9 0342 | 2.88 | 24 0243 | 2.24 | 9 1200 | 0.62 | 24 1100 | 1.01 |
| 0730 | 1.40 | 24 1001 | 1.30 | 1007 | 0.91 | 24 1047 | 1.17 | 1030 | 0.71 | 24 1023 | 1.17 | 1854 | 2.92 | SA 1757 | 2.52 |
| TH 1244 | 1.97 | FR 1459 | 1.75 | 1554 | 2.16 | MO 1632 | 1.89 | 1648 | 2.43 | WE 1639 | 2.01 | ● 2232 | 1.11 | 2202 | 1.59 |
| 1855 | 1.04 | 1956 | 1.41 | 2128 | 1.03 | 2141 | 1.53 | 2232 | 1.11 | 2202 | 1.59 | | | | |
| 10 0210 | 2.91 | 25 0337 | 2.62 | 10 0413 | 3.04 | 25 0429 | 2.42 | 10 0448 | 2.75 | 25 0410 | 2.16 | 10 0644 | 1.03 | 25 0548 | 2.02 |
| 0929 | 1.30 | 25 1101 | 1.20 | 1105 | 0.75 | 25 1127 | 1.07 | 1127 | 0.60 | 25 1107 | 1.05 | 1252 | 0.56 | SU 1153 | 0.82 |
| FR 1443 | 1.94 | SA 1631 | 1.84 | 1708 | 2.36 | TU 1738 | 2.06 | 1800 | 2.65 | TH 1744 | 2.22 | 1944 | 3.07 | 1844 | 2.79 |
| 2018 | 1.13 | 2140 | 1.49 | ● 2249 | 1.03 | ○ 2303 | 1.51 | 2353 | 1.10 | ○ 2328 | 1.53 | | | | |
| 11 0335 | 2.96 | 26 0442 | 2.61 | 11 0514 | 3.02 | 26 0520 | 2.41 | 11 0550 | 2.64 | 26 0515 | 2.15 | 11 0731 | 0.92 | 26 0638 | 2.15 |
| 1041 | 1.11 | 26 1146 | 1.10 | 1156 | 0.61 | 1202 | 0.96 | 1219 | 0.52 | FR 1833 | 2.47 | 1337 | 0.52 | MO 1243 | 0.62 |
| SA 1618 | 2.08 | SU 1741 | 2.00 | TU 1812 | 2.60 | WE 1827 | 2.27 | 1902 | 2.87 | | | 2024 | 3.14 | 1925 | 3.05 |
| 2152 | 1.12 | 2259 | 1.47 | | | | | | | | | | | | |
| 12 0444 | 3.07 | 27 0534 | 2.63 | 12 0000 | 0.99 | 27 0003 | 1.44 | 12 0059 | 1.05 | 27 0028 | 1.39 | 12 0808 | 2.25 | 27 0721 | 2.29 |
| 1137 | 0.90 | 27 1221 | 1.00 | 0607 | 2.96 | 0602 | 2.41 | 0644 | 2.53 | 0606 | 2.18 | 1416 | 0.51 | TU 1330 | 0.42 |
| SU 1729 | 2.31 | MO 1828 | 2.18 | WE 1241 | 0.49 | TH 1233 | 0.84 | 1306 | 0.46 | SA 1226 | 0.76 | 2058 | 3.15 | 2004 | 3.28 |
| ● 2312 | 1.02 | ○ 2358 | 1.39 | 1906 | 2.82 | 1906 | 2.48 | 1952 | 3.04 | 1913 | 2.72 | | | | |
| 13 0543 | 3.18 | 28 0616 | 2.66 | 13 0100 | 0.94 | 28 0052 | 1.34 | 13 0154 | 0.99 | 28 0116 | 1.23 | 13 0314 | 0.87 | 28 0801 | 2.43 |
| 1224 | 0.71 | 28 1250 | 0.91 | 0654 | 2.87 | 0638 | 2.40 | 0650 | 2.43 | 0650 | 2.22 | 1451 | 0.53 | WE 1416 | 0.24 |
| MO 1826 | 2.55 | TU 1902 | 2.36 | 1323 | 0.42 | FR 1304 | 0.73 | 1349 | 0.43 | SU 1306 | 0.60 | 2127 | 3.11 | 2043 | 3.45 |
| | | | | 1955 | 3.00 | 1940 | 2.69 | 2036 | 3.15 | 1950 | 2.96 | | | | |
| 14 0017 | 0.89 | 29 0043 | 1.30 | 14 0151 | 0.92 | 29 0133 | 1.24 | 14 0241 | 0.96 | 29 0159 | 1.07 | 14 0345 | 0.90 | 29 0843 | 2.55 |
| 0631 | 3.23 | 29 0649 | 2.66 | 0735 | 2.74 | 0712 | 2.39 | 0810 | 2.34 | 0731 | 2.28 | 0908 | 2.23 | WE 1522 | 0.56 |
| TU 1305 | 0.56 | WE 1317 | 0.83 | 1403 | 0.38 | SA 1336 | 0.61 | 1428 | 0.44 | MO 1348 | 0.44 | 1522 | 3.05 | TH 1501 | 0.12 |
| 1914 | 2.78 | 1934 | 2.53 | 2039 | 3.13 | 2013 | 2.89 | 2114 | 3.19 | 2027 | 3.18 | 2219 | 2.97 | ● 2204 | 3.52 |
| 15 0110 | 0.79 | 30 0121 | 1.23 | 15 0239 | 0.92 | 30 0213 | 1.14 | 15 0324 | 0.95 | 30 0241 | 0.92 | 15 0413 | 0.95 | 30 0926 | 2.62 |
| 0713 | 3.21 | 30 0718 | 2.65 | 0814 | 2.60 | 0747 | 2.37 | 0846 | 2.27 | 0813 | 2.35 | 0937 | 2.22 | TH 1552 | 0.62 |
| WE 1344 | 0.45 | TH 1343 | 0.75 | SA 1441 | 0.38 | SU 1410 | 0.50 | 1505 | 0.47 | TU 1432 | 0.30 | 1547 | 0.09 | FR 1547 | 0.09 |
| 1958 | 2.96 | 2003 | 2.68 | 2119 | 3.21 | 2048 | 3.07 | 2147 | 3.19 | 2107 | 3.36 | | | | |
| 31 0156 | 1.17 | | | | | | | | | | | 31 0324 | 0.79 | | |
| 0744 | 2.61 | | | | | | | | | | | 31 0856 | 2.40 | | |
| FR 1410 | 0.67 | | | | | | | | | | | WE 1517 | 0.19 | | |
| 2034 | 2.83 | | | | | | | | | | | 2147 | 3.48 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – ABBOT POINT

2019

LAT 19° 51' S LONG 148° 05' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | |
|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|------|------|-----------|--------|------|
| 1 | 0050 | 0.52 | 16 | 0000 | 0.88 | 1 | 0152 | 0.61 | 16 | 0059 | 0.65 | 1 | 0058 | 0.84 |
| | 0726 | 2.84 | | 0637 | 2.54 | | 0833 | 3.10 | | 0735 | 3.15 | | 0738 | 3.03 |
| TU | 1323 | 1.09 | WE | 1228 | 1.40 | FR | 1450 | 1.06 | SA | 1356 | 1.04 | FR | 1403 | 1.01 |
| | 1904 | 2.53 | | 1809 | 2.36 | | 2011 | 2.33 | | 1929 | 2.44 | | 1933 | 2.33 |
| 2 | 0128 | 0.48 | 17 | 0038 | 0.71 | 2 | 0224 | 0.61 | 17 | 0145 | 0.47 | 2 | 0135 | 0.78 |
| | 0808 | 2.97 | | 0714 | 2.80 | | 0901 | 3.11 | | 0813 | 3.37 | | 0809 | 3.07 |
| WE | 1410 | 1.08 | TH | 1318 | 1.25 | SA | 1520 | 1.07 | SU | 1439 | 0.89 | SA | 1432 | 0.98 |
| | 1941 | 2.43 | | 1851 | 2.40 | | 2039 | 2.32 | | 2010 | 2.56 | | 2001 | 2.38 |
| 3 | 0203 | 0.48 | 18 | 0116 | 0.55 | 3 | 0253 | 0.62 | 18 | 0229 | 0.32 | 3 | 0207 | 0.74 |
| | 0843 | 3.04 | | 0751 | 3.04 | | 0926 | 3.09 | | 0853 | 3.51 | | 0834 | 3.08 |
| TH | 1453 | 1.08 | FR | 1403 | 1.11 | SU | 1546 | 1.10 | MO | 1521 | 0.77 | SU | 1455 | 0.99 |
| | 2015 | 2.34 | | 1932 | 2.44 | | 2107 | 2.32 | | 2053 | 2.64 | | 2025 | 2.43 |
| 4 | 0235 | 0.51 | 19 | 0157 | 0.40 | 4 | 0320 | 0.65 | 19 | 0314 | 0.24 | 4 | 0235 | 0.72 |
| | 0915 | 3.06 | | 0829 | 3.25 | | 0951 | 3.05 | | 0933 | 3.56 | | 0858 | 3.06 |
| FR | 1530 | 1.11 | SA | 1449 | 0.99 | MO | 1611 | 1.14 | TU | 1604 | 0.72 | MO | 1517 | 1.00 |
| | 2046 | 2.26 | | 2015 | 2.47 | | 2134 | 2.31 | | 2137 | 2.68 | | 2050 | 2.47 |
| 5 | 0305 | 0.55 | 20 | 0240 | 0.29 | 5 | 0345 | 0.70 | 20 | 0358 | 0.26 | 5 | 0301 | 0.73 |
| | 0945 | 3.04 | | 0910 | 3.41 | | 1016 | 2.99 | | 1015 | 3.51 | | 0919 | 3.03 |
| SA | 1604 | 1.16 | SU | 1535 | 0.91 | TU | 1636 | 1.18 | WE | 1647 | 0.72 | TU | 1539 | 1.01 |
| | 2118 | 2.19 | | 2100 | 2.48 | | ● 2202 | 2.28 | ○ 2224 | 2.65 | | 2115 | 2.50 | |
| 6 | 0333 | 0.62 | 21 | 0324 | 0.24 | 6 | 0409 | 0.77 | 21 | 0444 | 0.40 | 6 | 0325 | 0.75 |
| | 1014 | 2.99 | | 0953 | 3.49 | | 1040 | 2.92 | | 1058 | 3.34 | | 0942 | 2.98 |
| SU | 1637 | 1.21 | MO | 1623 | 0.87 | WE | 1703 | 1.22 | TH | 1732 | 0.79 | WE | 1602 | 1.03 |
| | ● 2150 | 2.12 | ○ 2148 | 2.45 | | 2232 | 2.24 | | 2315 | 2.57 | | 2141 | 2.50 | |
| 7 | 0400 | 0.70 | 22 | 0411 | 0.26 | 7 | 0435 | 0.87 | 22 | 0532 | 0.65 | 7 | 0350 | 0.81 |
| | 1044 | 2.92 | | 1039 | 3.47 | | 1106 | 2.82 | | 1144 | 3.09 | | 1004 | 2.91 |
| MO | 1710 | 1.27 | TU | 1712 | 0.88 | TH | 1732 | 1.26 | FR | 1820 | 0.90 | TH | 1625 | 1.05 |
| | 2223 | 2.05 | | 2239 | 2.39 | | 2305 | 2.18 | | | | | ● 2209 | 2.49 |
| 8 | 0426 | 0.80 | 23 | 0458 | 0.38 | 8 | 0503 | 1.01 | 23 | 0014 | 2.46 | 8 | 0416 | 0.90 |
| | 1113 | 2.83 | | 1127 | 3.37 | | 1132 | 2.71 | | 0626 | 0.96 | | 1027 | 2.81 |
| TU | 1746 | 1.33 | WE | 1805 | 0.92 | FR | 1805 | 1.31 | SU | 1236 | 2.78 | FR | 1652 | 1.07 |
| | 2258 | 1.97 | | 2336 | 2.30 | | 2343 | 2.12 | | 1917 | 1.01 | | 2240 | 2.46 |
| 9 | 0454 | 0.92 | 24 | 0551 | 0.59 | 9 | 0536 | 1.17 | 24 | 0135 | 2.37 | 9 | 0446 | 1.03 |
| | 1144 | 2.73 | | 1220 | 3.18 | | 1202 | 2.58 | | 0738 | 1.27 | | 1051 | 2.69 |
| WE | 1826 | 1.39 | TH | 1905 | 0.98 | SU | 1845 | 1.35 | SU | 1343 | 2.46 | SU | 1721 | 1.11 |
| | 2339 | 1.89 | | | | | | | | 2030 | 1.10 | | 2315 | 2.42 |
| 10 | 0524 | 1.06 | 25 | 0043 | 2.20 | 10 | 0033 | 2.06 | 25 | 0323 | 2.39 | 10 | 0520 | 1.19 |
| | 1219 | 2.62 | | 0649 | 0.86 | | 0618 | 1.37 | | 0925 | 1.45 | | 1119 | 2.54 |
| TH | 1921 | 1.43 | FR | 1321 | 2.95 | SU | 1237 | 2.43 | MO | 1519 | 2.23 | SU | 1753 | 1.15 |
| | | | | 2014 | 1.01 | | 1940 | 1.36 | | 2157 | 1.11 | | 2358 | 2.36 |
| 11 | 0029 | 1.82 | 26 | 0213 | 2.17 | 11 | 0149 | 2.02 | 26 | 0505 | 2.56 | 11 | 0601 | 1.37 |
| | 0602 | 1.23 | | 0802 | 1.13 | | 0721 | 1.56 | | 1120 | 1.39 | | 1151 | 2.37 |
| FR | 1300 | 2.51 | SA | 1433 | 2.72 | MO | 1327 | 2.27 | TU | 1701 | 2.16 | MO | 1833 | 1.21 |
| | 2042 | 1.41 | | 2131 | 0.98 | | 2101 | 1.33 | ○ 2314 | 1.03 | | | | |
| 12 | 0143 | 1.78 | 27 | 0356 | 2.27 | 12 | 0345 | 2.11 | 27 | 0612 | 2.77 | 12 | 0057 | 2.31 |
| | 0653 | 1.41 | | 0935 | 1.31 | | 0920 | 1.68 | | 1236 | 1.23 | | 0703 | 1.56 |
| SA | 1354 | 2.40 | SU | 1554 | 2.55 | | 1502 | 2.14 | WE | 1812 | 2.20 | | 1236 | 2.17 |
| | 2154 | 1.33 | | 2244 | 0.89 | | 2219 | 1.22 | | | | | 1932 | 1.28 |
| 13 | 0332 | 1.85 | 28 | 0527 | 2.49 | 13 | 0514 | 2.34 | 28 | 0012 | 0.93 | 13 | 0239 | 2.31 |
| | 0820 | 1.57 | | 1113 | 1.33 | | 1109 | 1.60 | | 0701 | 2.93 | | 0905 | 1.66 |
| SU | 1509 | 2.33 | MO | 1711 | 2.45 | WE | 1650 | 2.13 | TH | 1325 | 1.09 | WE | 1406 | 1.97 |
| | 2244 | 1.20 | | ○ 2343 | 0.79 | | ● 2320 | 1.05 | | 1859 | 2.27 | | 2112 | 1.29 |
| 14 | 0458 | 2.03 | 29 | 0631 | 2.73 | 14 | 0611 | 2.62 | | | | 14 | 0432 | 2.47 |
| | 1013 | 1.60 | | 1231 | 1.24 | | 1219 | 1.42 | | | | | 1107 | 1.53 |
| MO | 1624 | 2.31 | TU | 1814 | 2.40 | | 1757 | 2.21 | | | | | 1639 | 1.97 |
| | ○ 2323 | 1.05 | | | | | | | | | | | 2242 | 1.17 |
| 15 | 0555 | 2.28 | 30 | 0033 | 0.70 | 15 | 0012 | 0.86 | | | | 15 | 0542 | 2.73 |
| | 1131 | 1.52 | | 0720 | 2.93 | | 0654 | 2.90 | | | | | 1216 | 1.31 |
| TU | 1722 | 2.33 | WE | 1329 | 1.15 | FR | 1311 | 1.23 | | | | | 1753 | 2.12 |
| | | | | 1902 | 2.37 | | 1846 | 2.32 | | | | | 2350 | 0.97 |
| | | | | | | | | | | | | | 1916 | 2.29 |
| | | | | | | | | | | | | | 31 | 0109 |
| | | | | | | | | | | | | | 0734 | 0.97 |
| | | | | | | | | | | | | | SU | 1401 |
| | | | | | | | | | | | | | | 1941 |
| | | | | | | | | | | | | | | 2.96 |
| | | | | | | | | | | | | | | 0.91 |
| | | | | | | | | | | | | | | 2.40 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – ABBOT POINT

2019

LAT 19° 51' S LONG 148° 05' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|--------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------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| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 0140 | 1.02 | 16 0151 | 0.79 | 1 0219 | 1.10 | 16 0317 | 0.99 | 1 0243 | 1.06 | 16 0355 | 0.99 | 1 0401 | 0.76 | 16 0427 | 0.97 | 2 0447 | 0.73 | 17 0453 | 1.02 | 3 0536 | 0.74 | 18 0520 | 1.07 | 4 0630 | 0.77 | 19 0551 | 1.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0742 | 2.81 | 0739 | 2.96 | 0754 | 2.50 | 0839 | 2.34 | 0808 | 2.29 | 0910 | 2.12 | 0927 | 2.30 | 0954 | 2.14 | 1016 | 2.29 | 1025 | 2.10 | 1110 | 2.24 | 1059 | 2.05 | 1212 | 2.18 | 1138 | 1.99 | 1212 | 2.18 | 1138 | 1.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WE 1408 | 0.77 | TH 1414 | 0.43 | SA 1424 | 0.57 | SU 1505 | 0.44 | MO 1434 | 0.41 | TU 1527 | 0.51 | 1549 | 0.20 | 1604 | 0.65 | 2216 | 3.35 | 2228 | 2.78 | 1725 | 0.40 | 1657 | 0.90 | 1819 | 0.63 | 1728 | 1.06 | 1819 | 0.63 | 1728 | 1.06 | 1923 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2008 | 2.61 | 2026 | 2.92 | 2048 | 2.87 | 2143 | 3.06 | 2109 | 3.09 | 2204 | 3.00 | ● 2216 | 3.35 | 2228 | 2.78 | 2301 | 3.28 | 2253 | 2.67 | 2348 | 3.13 | 2318 | 2.54 | 2345 | 2.39 | 2345 | 2.39 | 1923 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 0210 | 0.99 | 17 0235 | 0.80 | 2 0255 | 1.07 | 17 0401 | 1.04 | 2 0327 | 0.99 | 17 0430 | 1.03 | 2 0447 | 0.73 | 17 0453 | 1.02 | 3 0536 | 0.74 | 18 0520 | 1.07 | 4 0630 | 0.77 | 19 0551 | 1.11 | 5 0731 | 0.81 | 20 1225 | 1.94 | 6 0840 | 0.81 | 21 0713 | 1.19 | 7 0953 | 0.77 | 22 0824 | 1.19 | 8 1060 | 0.77 | 23 0948 | 1.12 | 9 1170 | 0.77 | 24 1052 | 0.99 | 10 1280 | 0.77 | 25 1152 | 1.94 | 11 1390 | 0.77 | 26 1256 | 1.94 | 12 1500 | 0.77 | 27 1354 | 1.94 | 13 1608 | 0.77 | 28 1452 | 1.94 | 14 1716 | 0.77 | 29 1554 | 1.94 | 15 1824 | 0.77 | 30 1652 | 1.94 | 16 1932 | 0.77 | 31 1750 | 0.77 | 17 2040 | 0.77 | 32 1858 | 0.77 | 18 2148 | 0.77 | 33 1956 | 0.77 | 19 2248 | 0.77 | 34 2054 | 0.77 | 20 2152 | 0.77 | 35 2250 | 0.77 | 21 2248 | 0.77 | 36 2346 | 0.77 | 22 2344 | 0.77 | 37 2442 | 0.77 | 23 2340 | 0.77 | 38 2540 | 0.77 | 24 2338 | 0.77 | 39 2636 | 0.77 | 25 2336 | 0.77 | 40 2734 | 0.77 | 26 2334 | 0.77 | 41 2832 | 0.77 | 27 2332 | 0.77 | 42 2930 | 0.77 | 28 2330 | 0.77 | 43 2038 | 0.77 | 29 2136 | 0.77 | 44 2134 | 0.77 | 30 2232 | 0.77 | 45 2230 | 0.77 | 31 2328 | 0.77 | 46 2426 | 0.77 | 32 2524 | 0.77 | 47 2522 | 0.77 | 33 2620 | 0.77 | 48 2718 | 0.77 | 34 2716 | 0.77 | 49 2814 | 0.77 | 35 2812 | 0.77 | 50 2910 | 0.77 | 36 2908 | 0.77 | 51 2006 | 0.77 | 37 2104 | 0.77 | 52 2102 | 0.77 | 38 2200 | 0.77 | 53 2298 | 0.77 | 39 2396 | 0.77 | 54 2494 | 0.77 | 40 2394 | 0.77 | 55 2592 | 0.77 | 41 2492 | 0.77 | 56 2690 | 0.77 | 42 2590 | 0.77 | 57 2788 | 0.77 | 43 2688 | 0.77 | 58 2886 | 0.77 | 44 2786 | 0.77 | 59 2984 | 0.77 | 45 2884 | 0.77 | 60 3082 | 0.77 | 46 2982 | 0.77 | 61 3180 | 0.77 | 47 3080 | 0.77 | 62 3278 | 0.77 | 48 3178 | 0.77 | 63 3376 | 0.77 | 49 3276 | 0.77 | 64 3474 | 0.77 | 50 3374 | 0.77 | 65 3572 | 0.77 | 51 3472 | 0.77 | 66 3670 | 0.77 | 52 3570 | 0.77 | 67 3768 | 0.77 | 53 3668 | 0.77 | 68 3866 | 0.77 | 54 3766 | 0.77 | 69 3964 | 0.77 | 55 3864 | 0.77 | 70 4062 | 0.77 | 56 3962 | 0.77 | 71 4160 | 0.77 | 57 4060 | 0.77 | 72 4258 | 0.77 | 58 4158 | 0.77 | 73 4356 | 0.77 | 59 4256 | 0.77 | 74 4454 | 0.77 | 60 4354 | 0.77 | 75 4552 | 0.77 | 61 4452 | 0.77 | 76 4650 | 0.77 | 62 4550 | 0.77 | 77 4748 | 0.77 | 63 4648 | 0.77 | 78 4846 | 0.77 | 64 4746 | 0.77 | 79 4944 | 0.77 | 65 4844 | 0.77 | 80 5042 | 0.77 | 66 4942 | 0.77 | 81 5140 | 0.77 | 67 5040 | 0.77 | 82 5238 | 0.77 | 68 5138 | 0.77 | 83 5336 | 0.77 | 69 5236 | 0.77 | 84 5434 | 0.77 | 70 5334 | 0.77 | 85 5532 | 0.77 | 71 5432 | 0.77 | 86 5630 | 0.77 | 72 5530 | 0.77 | 87 5728 | 0.77 | 73 5628 | 0.77 | 88 5826 | 0.77 | 74 5726 | 0.77 | 89 5924 | 0.77 | 75 5824 | 0.77 | 90 6022 | 0.77 | 76 5922 | 0.77 | 91 6120 | 0.77 | 77 6020 | 0.77 | 92 6218 | 0.77 | 78 6118 | 0.77 | 93 6316 | 0.77 | 79 6216 | 0.77 | 94 6414 | 0.77 | 80 6314 | 0.77 | 95 6512 | 0.77 | 81 6412 | 0.77 | 96 6610 | 0.77 | 82 6510 | 0.77 | 97 6708 | 0.77 | 83 6608 | 0.77 | 98 6806 | 0.77 | 84 6706 | 0.77 | 99 6904 | 0.77 | 85 6804 | 0.77 | 100 7002 | 0.77 | 86 6902 | 0.77 | 101 7100 | 0.77 | 87 7000 | 0.77 | 102 7298 | 0.77 | 88 7198 | 0.77 | 103 7396 | 0.77 | 89 7296 | 0.77 | 104 7494 | 0.77 | 90 7394 | 0.77 | 105 7592 | 0.77 | 91 7492 | 0.77 | 106 7690 | 0.77 | 92 7590 | 0.77 | 107 7788 | 0.77 | 93 7688 | 0.77 | 108 7886 | 0.77 | 94 7786 | 0.77 | 109 7984 | 0.77 | 95 7884 | 0.77 | 110 8082 | 0.77 | 96 7982 | 0.77 | 111 8180 | 0.77 | 97 8080 | 0.77 | 112 8278 | 0.77 | 98 8178 | 0.77 | 113 8376 | 0.77 | 99 8276 | 0.77 | 114 8474 | 0.77 | 100 8374 | 0.77 | 115 8572 | 0.77 | 101 8472 | 0.77 | 116 8670 | 0.77 | 102 8570 | 0.77 | 117 8768 | 0.77 | 103 8668 | 0.77 | 118 8866 | 0.77 | 104 8766 | 0.77 | 119 8964 | 0.77 | 105 8864 | 0.77 | 120 9062 | 0.77 | 106 8962 | 0.77 | 121 9160 | 0.77 | 107 9060 | 0.77 | 122 9258 | 0.77 | 108 9158 | 0.77 | 123 9356 | 0.77 | 109 9256 | 0.77 | 124 9454 | 0.77 | 110 9354 | 0.77 | 125 9552 | 0.77 | 111 9452 | 0.77 | 126 9650 | 0.77 | 112 9550 | 0.77 | 127 9748 | 0.77 | 113 9648 | 0.77 | 128 9846 | 0.77 | 114 9746 | 0.77 | 129 9944 | 0.77 | 115 9844 | 0.77 | 130 0042 | 0.77 | 116 9942 | 0.77 | 131 0140 | 0.77 | 117 0040 | 0.77 | 132 0238 | 0.77 | 118 0138 | 0.77 | 133 0336 | 0.77 | 119 0236 | 0.77 | 134 0434 | 0.77 | 120 0334 | 0.77 | 135 0532 | 0.77 | 121 0432 | 0.77 | 136 0630 | 0.77 | 122 0530 | 0.77 | 137 0728 | 0.77 | 123 0628 | 0.77 | 138 0826 | 0.77 | 124 0726 | 0.77 | 139 0924 | 0.77 | 125 0824 | 0.77 | 140 1022 | 0.77 | 126 0922 | 0.77 | 141 1120 | 0.77 | 127 1020 | 0.77 | 142 1218 | 0.77 | 128 1120 | 0.77 | 143 1316 | 0.77 | 129 1220 | 0.77 | 144 1414 | 0.77 | 130 1320 | 0.77 | 145 1512 | 0.77 | 131 1420 | 0.77 | 146 1610 | 0.77 | 132 1520 | 0.77 | 147 1708 | 0.77 | 133 1620 | 0.77 | 148 1806 | 0.77 | 134 1720 | 0.77 | 149 1904 | 0.77 | 135 1820 | 0.77 | 150 1922 | 0.77 | 136 1920 | 0.77 | 151 2020 | 0.77 | 137 2020 | 0.77 | 152 2118 | 0.77 | 138 2120 | 0.77 | 153 2216 | 0.77 | 139 2220 | 0.77 | 154 2314 | 0.77 | 140 2320 | 0.77 | 155 2412 | 0.77 | 141 2420 | 0.77 | 156 2510 | 0.77 | 142 2520 | 0.77 | 157 2608 | 0.77 | 143 2620 | 0.77 | 158 2706 | 0.77 | 144 2720 | 0.77 | 159 2804 | 0.77 | 145 2820 | 0.77 | 160 2902 | 0.77 | 146 2920 | 0.77 | 161 3000 | 0.77 | 147 3020 | 0.77 | 162 3098 | 0.77 | 148 3120 | 0.77 | 163 3196 | 0.77 | 149 3220 | 0.77 | 164 3394 | 0.77 | 150 3320 | 0.77 | 165 3492 | 0.77 | 151 3420 | 0.77 | 166 3590 | 0.77 | 152 3520 | 0.77 | 167 3688 | 0.77 | 153 3620 | 0.77 | 168 3846 | 0.77 | 154 3720 | 0.77 | 169 3904 | 0.77 | 155 3820 | 0.77 | 170 4062 | 0.77 | 156 3920 | 0.77 | 171 4160 | 0.77 | 157 4020 | 0.77 | 172 4258 | 0.77 | 158 4120 | 0.77 | 173 4356 | 0.77 | 159 4220 | 0.77 | 174 4454 | 0.77 | 160 4120 | 0.77 | 175 4552 | 0.77 | 161 4220 | 0.77 | 176 4650 | 0.77 | 162 4320 | 0.77 | 177 4748 | 0.77 | 163 4420 | 0.77 | 178 4846 | 0.77 | 164 4520 | 0.77 | 179 4944 | 0.77 | 165 4620 | 0.77 | 180 5042 | 0.77 | 166 4720 | 0.77 | 181 5140 | 0.77 | 167 4820 | 0.77 | 182 5258 | 0.77 | 168 4920 | 0.77 | 183 5386 | 0.77 | 169 5020 | 0.77 | 184 5514 | 0.77 | 170 5120 | 0.77 | 185 5642 | 0.77 | 171 5220 | 0.77 | 186 5770 | 0.77 | 172 5320 | 0.77 | 187 5908 | 0.77 | 173 5420 | 0.77 | 188 6036 | 0.77 | 174 5520 | 0.77 | 189 6164 | 0.77 | 175 5620 | 0.77 | 190 6302 | 0.77 | 176 5720 | 0.77 | 191 6430 | 0.77 | 177 5820 | 0.77 | 192 6558 | 0.77 | 178 5920 | 0.77 | 193 6686 | 0.77 | 179 6020 | 0.77 | 194 6804 | 0.77 | 180 6120 | 0.77 | 195 6922 | 0.77 | 181 6220 | 0.77 | 196 7050 | 0.77 | 182 6320 | 0.77 | 197 7178 | 0.77 | 183 6420 | 0.77 | 198 7316 | 0.77 | 184 6520 | 0.77 | 199 7454 | 0.77 | 185 6620 | 0.77 | 200 7582 | 0.77 | 186 6720 | 0.77 | 201 7710 | 0.77 | 187 6820 | 0.77 | 202 7848 | 0.77 | 188 6920 | 0.77 | 203 7976 | 0.77 | 189 7020 | 0.77 | 204 8004 | 0.77 | 190 7120 | 0.77 | 205 8132 | 0.77 | 191 7220 | 0.77 | 206 8260 | 0.77 | 192 7320 | 0.77 | 207 8388 | 0.77 | 193 7420 | 0.77 | 208 8516 | 0.77 | 194 7520 | 0.77 | 209 8644 | 0.77 | 195 7620 | 0.77 | 210 8772 | 0.77 | 196 7720 | 0.77 | 211 8900 | 0.77 | 197 7820 | 0.77 | 212 9028 | 0.77 | 198 7920 | 0.77 | 213 9156 | 0.77 | 199 8020 | 0.77 | 214 9284 | 0.77 | 200 8120 | 0.77 | 215 9312 | 0.77 | 201 8220 | 0.77 | 216 9440 | 0.77 | 202 8320 | 0.77 | 217 9568 | 0.77 | 203 8420 | 0.77 | 218 9696 | 0.77 | 204 8520 | 0.77 | 219 9824 | 0.77 | 205 8620 | 0.77 | 220 9952 | 0.77 | 206 8720 | 0.77 | 221 10080 | 0. |

AUSTRALIA, EAST COAST – ABBOT POINT

2019

LAT 19° 51' S LONG 148° 05' E

Times and Heights of High and Low Waters

Time Zone -1000

| SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0506 0.56 | 16 0436 0.90 | 1 0513 0.55 | 16 0423 0.78 | 1 0611 0.90 | 16 0505 0.83 | 1 0042 1.64 | 16 0603 0.85 |
| 1050 2.45 | 1029 2.25 | 1127 2.59 | 1042 2.46 | 1338 2.60 | 1207 2.64 | 0629 1.08 | 1303 2.88 |
| SU 1708 0.45 | MO 1633 0.95 | TU 1745 0.90 | WE 1653 1.18 | FR 2105 1.23 | SA 1856 1.39 | SU 1402 2.61 | MO 2020 1.20 |
| 2316 2.98 | 2233 2.44 | 2329 2.36 | 2221 2.13 | 2349 1.70 | | 2147 1.18 | |
| 2 0552 0.64 | 17 0503 0.94 | 2 0600 0.71 | 17 0450 0.84 | 2 0134 1.61 | 17 0602 0.98 | 2 0227 1.60 | 17 0124 1.77 |
| 1148 2.38 | 1104 2.21 | 1238 2.50 | 1122 2.42 | 0726 1.09 | 1322 2.61 | 0749 1.26 | 0715 1.00 |
| MO 1801 0.73 | TU 1706 1.11 | WE 1859 1.17 | TH 1738 1.33 | SA 1507 2.57 | SU 2110 1.31 | MO 1517 2.55 | TU 1418 2.84 |
| 2258 2.28 | 2325 2.10 | 2253 1.95 | 2340 1.75 | 2236 1.08 | 2147 1.07 | 2247 1.07 | 2138 1.06 |
| 3 0005 2.68 | 18 0532 1.00 | 3 0028 2.02 | 18 0524 0.94 | 3 0349 1.63 | 18 0141 1.60 | 3 0413 1.71 | 18 0312 1.86 |
| 0645 0.75 | 1146 2.16 | 0659 0.88 | 1216 2.37 | 0906 1.18 | 0728 1.10 | 0921 1.34 | 0840 1.10 |
| TU 1303 2.31 | WE 1745 1.28 | TH 1417 2.46 | FR 1843 1.45 | SU 1623 2.60 | MO 1457 2.65 | TU 1623 2.54 | WE 1531 2.83 |
| 1908 1.03 | 2325 2.10 | 2102 1.26 | 2340 1.75 | 2331 0.92 | 2228 1.11 | 2329 0.96 | 2239 0.89 |
| 4 0106 2.35 | 19 0608 1.06 | 4 0212 1.77 | 19 0614 1.06 | 4 0519 1.80 | 19 0352 1.73 | 4 0526 1.89 | 19 0436 2.08 |
| 0751 0.84 | 1241 2.11 | 0824 1.01 | 1340 2.34 | 1029 1.16 | 0910 1.11 | 1037 1.34 | 1004 1.13 |
| WE 1443 2.32 | TH 1841 1.45 | FR 1554 2.53 | SA 2128 1.45 | MO 1721 2.66 | TU 1611 2.76 | WE 1715 2.55 | TH 1635 2.83 |
| 2046 1.23 | 2256 1.11 | 2356 1.11 | 2348 1.00 | 2318 0.90 | 2318 0.90 | 2329 0.71 | 2329 0.71 |
| 5 0237 2.07 | 20 0002 1.91 | 5 0420 1.75 | 20 0124 1.58 | 5 0010 0.80 | 20 0504 1.97 | 5 0004 0.86 | 20 0541 2.34 |
| 0913 0.88 | 0700 1.13 | 0959 1.02 | 0745 1.16 | 0604 1.98 | 1030 1.03 | 0609 2.08 | 1120 1.10 |
| TH 1622 2.46 | FR 1416 2.11 | SA 1710 2.66 | SU 1534 2.43 | TU 1131 1.09 | WE 1708 2.88 | TH 1137 1.30 | FR 1730 2.80 |
| 2246 1.20 | 2048 1.55 | 2302 1.23 | 2302 1.23 | 1805 2.70 | 2359 0.70 | 1755 2.56 | |
| 6 0423 1.97 | 21 0113 1.71 | 6 0000 0.92 | 21 0419 1.66 | 6 0043 0.72 | 21 0556 2.23 | 6 0033 0.78 | 21 0013 0.56 |
| 1034 0.83 | 0833 1.17 | 0540 1.88 | 0940 1.11 | 0637 2.15 | 1136 0.91 | 0643 2.27 | 0635 2.60 |
| FR 1739 2.65 | SA 1613 2.26 | SU 1113 0.94 | MO 1647 2.63 | WE 1218 1.02 | TH 1755 2.95 | FR 1224 1.24 | SA 1225 1.05 |
| 2310 1.40 | 1804 2.77 | 2348 1.00 | 1838 2.72 | 1838 2.72 | 1838 2.72 | 1827 2.55 | 1818 2.74 |
| 7 0009 1.03 | 22 0425 1.69 | 7 0043 0.77 | 22 0525 1.88 | 7 0109 0.67 | 22 0037 0.53 | 7 0059 0.71 | 22 0054 0.45 |
| 0543 2.00 | 1013 1.07 | 0626 2.04 | 1058 0.95 | 0704 2.29 | 0640 2.48 | 0713 2.44 | 0722 2.83 |
| SA 1140 0.74 | SU 1721 2.49 | MO 1207 0.85 | TU 1740 2.83 | 1255 0.96 | FR 1233 0.82 | 1303 1.20 | SU 1321 1.01 |
| 1833 2.83 | 1845 2.84 | 1845 2.84 | 1836 2.97 | 1906 2.71 | 1836 2.97 | 1856 2.52 | 1901 2.65 |
| 8 0104 0.86 | 23 0007 1.17 | 8 0117 0.69 | 23 0026 0.79 | 8 0133 0.64 | 23 0113 0.41 | 8 0123 0.65 | 23 0132 0.38 |
| 0637 2.08 | 0536 1.85 | 0659 2.16 | 0611 2.13 | 0731 2.41 | 0721 2.69 | 0742 2.59 | 0805 3.00 |
| SU 1232 0.66 | MO 1121 0.89 | TU 1250 0.77 | WE 1157 0.77 | 1328 0.94 | SA 1323 0.76 | 1338 1.17 | MO 1410 0.99 |
| 1916 2.93 | 1810 2.74 | 1917 2.85 | 1823 3.00 | 1930 2.68 | 1913 2.91 | 1921 2.47 | 1941 2.53 |
| 9 0144 0.77 | 24 0047 0.96 | 9 0144 0.67 | 24 0101 0.61 | 9 0156 0.62 | 24 0149 0.32 | 9 0147 0.60 | 24 0210 0.35 |
| 0716 2.15 | 0622 2.04 | 0726 2.26 | 0650 2.35 | 0757 2.51 | 0801 2.86 | 0811 2.71 | 0846 3.11 |
| MO 1315 0.60 | TU 1216 0.68 | WE 1325 0.73 | TH 1247 0.61 | 1358 0.94 | SU 1410 0.76 | 1411 1.16 | TU 1458 1.00 |
| 1951 2.96 | 1850 2.97 | 1944 2.84 | 1901 3.11 | 1953 2.62 | 1950 2.79 | 1946 2.40 | 2020 2.41 |
| 10 0215 0.74 | 25 0123 0.76 | 10 0208 0.67 | 25 0136 0.46 | 10 0217 0.60 | 25 0224 0.28 | 10 0211 0.56 | 25 0246 0.36 |
| 0746 2.20 | 0701 2.23 | 0751 2.34 | 0728 2.55 | 0824 2.60 | 0842 2.98 | 0840 2.82 | 0924 3.17 |
| TU 1350 0.57 | WE 1304 0.49 | TH 1356 0.71 | FR 1334 0.50 | 1428 0.96 | MO 1455 0.81 | 1445 1.15 | WE 1543 1.03 |
| 2019 2.94 | 1928 3.15 | 2007 2.80 | 1937 3.13 | 2014 2.54 | 2027 2.63 | 2012 2.33 | 2059 2.29 |
| 11 0242 0.75 | 26 0159 0.60 | 11 0230 0.68 | 26 0211 0.35 | 11 0240 0.59 | 26 0259 0.29 | 11 0238 0.53 | 26 0321 0.41 |
| 0811 2.24 | 0738 2.41 | 0815 2.41 | 0806 2.72 | 0853 2.66 | 0924 3.05 | 0910 2.91 | 1002 3.16 |
| WE 1421 0.57 | TH 1349 0.33 | FR 1423 0.73 | SA 1418 0.47 | 1458 1.01 | TU 1543 0.90 | 1521 1.15 | TH 1628 1.08 |
| 2043 2.91 | 2004 3.26 | 2028 2.75 | 2012 3.07 | 2036 2.43 | 2107 2.43 | 2041 2.25 | 2140 2.17 |
| 12 0305 0.78 | 27 0236 0.48 | 12 0251 0.69 | 27 0247 0.30 | 12 0302 0.59 | 27 0335 0.36 | 12 0307 0.51 | 27 0357 0.51 |
| 0836 2.28 | 0817 2.56 | 0841 2.45 | 0846 2.84 | 0921 2.70 | 1009 3.04 | 0944 2.97 | 1041 3.09 |
| TH 1448 0.59 | FR 1434 0.25 | SA 1450 0.77 | SU 1503 0.53 | 1531 1.07 | WE 1632 1.02 | 1602 1.17 | FR 1713 1.16 |
| 2105 2.85 | 2041 3.28 | 2049 2.67 | 2048 2.92 | 2059 2.32 | 2150 2.20 | 2117 2.16 | 2221 2.05 |
| 13 0327 0.81 | 28 0314 0.40 | 13 0313 0.70 | 28 0323 0.30 | 13 0327 0.60 | 28 0413 0.49 | 13 0341 0.54 | 28 0434 0.65 |
| 0902 2.30 | 0858 2.66 | 0908 2.48 | 0929 2.89 | 0953 2.73 | 1056 2.97 | 1023 3.00 | 1121 2.98 |
| FR 1514 0.63 | SA 1517 0.27 | SU 1517 0.84 | MO 1549 0.66 | 1606 1.15 | TH 1728 1.15 | 1647 2.00 | 1802 1.24 |
| 2127 2.78 | 2119 3.19 | 2109 2.57 | 2128 2.69 | 2127 2.18 | 2237 1.98 | 2159 2.05 | 2306 1.93 |
| 14 0350 0.84 | 29 0352 0.38 | 14 0335 0.71 | 29 0359 0.36 | 14 0354 0.64 | 29 0452 0.66 | 14 0420 0.60 | 29 0510 0.82 |
| 0929 2.30 | SU 1602 0.40 | 0936 2.49 | 1016 2.88 | 1030 2.73 | 1148 2.86 | 1107 2.98 | 1203 2.84 |
| SA 1539 0.71 | ● 2159 2.99 | MO 1545 0.94 | TU 1638 0.85 | 1649 1.23 | FR 1841 1.25 | 1742 1.24 | SU 1902 1.31 |
| ● 2149 2.69 | ● 2159 2.99 | ● 2131 2.44 | 2211 2.41 | 2201 2.03 | 2332 1.78 | 2251 1.93 | 2355 1.83 |
| 15 0412 0.87 | 30 0431 0.44 | 15 0358 0.74 | 30 0438 0.50 | 15 0425 0.72 | 30 0536 0.87 | 15 0506 0.71 | 30 0547 1.01 |
| 0958 2.29 | 1030 2.67 | 1007 2.49 | 1109 2.80 | 1113 2.70 | 1249 2.73 | 1159 2.94 | 1249 2.69 |
| SU 1605 0.81 | MO 1651 0.63 | TU 1616 1.05 | WE 1735 1.07 | 1740 1.33 | SA 2020 1.26 | SU 1852 1.26 | MO 2017 1.33 |
| 2211 2.58 | 2241 2.70 | 2154 2.30 | 2258 2.09 | 2245 1.86 | 2245 1.86 | 2356 1.82 | |
| | | | | | | | |
| | | 31 | 0520 0.68 | | | | |
| | | | 1213 2.69 | | | | |
| | | | TH 1856 1.24 | | | | |
| | | | 2358 1.81 | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

● First Quarter

○ Full Moon

Last Quarter

AUSTRALIA, EAST COAST – CAPE FERGUSON

2019

LAT 19° 17' S LONG 147° 03' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | |
|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|------|
| 1 | 0027 | 0.56 | 16 | 0606 | 2.50 | 1 | 0126 | 0.66 | 16 | 0036 | 0.62 | 1 | 0043 | 0.90 | |
| | 0650 | 2.78 | | 1212 | 1.43 | | 0755 | 3.09 | | 0700 | 3.23 | | 0710 | 3.01 | |
| TU | 1300 | 1.11 | WE | 1729 | 2.40 | FR | 1423 | 1.10 | SA | 1330 | 1.04 | FR | 1337 | 1.06 | |
| | 1820 | 2.60 | | | | | 1930 | 2.44 | | 1846 | 2.60 | | 1859 | 2.38 | |
| 2 | 0102 | 0.51 | 17 | 0018 | 0.71 | 2 | 0151 | 0.64 | 17 | 0113 | 0.38 | 2 | 0114 | 0.83 | |
| | 0727 | 2.94 | | 0640 | 2.79 | | 0820 | 3.13 | | 0736 | 3.51 | | 0735 | 3.08 | |
| WE | 1346 | 1.10 | TH | 1257 | 1.27 | SA | 1452 | 1.11 | SU | 1407 | 0.86 | SA | 1406 | 1.02 | |
| | 1856 | 2.54 | | | | | 1957 | 2.45 | | 1926 | 2.79 | | 1924 | 2.46 | |
| 3 | 0132 | 0.49 | 18 | 0050 | 0.51 | 3 | 0210 | 0.63 | 18 | 0151 | 0.19 | 3 | 0138 | 0.78 | |
| | 0800 | 3.04 | | 0715 | 3.09 | | 0845 | 3.14 | | 0813 | 3.72 | | 0758 | 3.12 | |
| TH | 1426 | 1.10 | FR | 1337 | 1.12 | SU | 1517 | 1.14 | MO | 1444 | 0.73 | SU | 1429 | 1.02 | |
| | 1929 | 2.48 | | | | | 2023 | 2.45 | | 2008 | 2.94 | | 1947 | 2.54 | |
| 4 | 0156 | 0.50 | 19 | 0125 | 0.32 | 4 | 0229 | 0.64 | 19 | 0231 | 0.09 | 4 | 0156 | 0.75 | |
| | 0831 | 3.08 | | 0751 | 3.36 | | 0909 | 3.11 | | 0852 | 3.82 | | 0819 | 3.12 | |
| FR | 1502 | 1.14 | SA | 1418 | 0.98 | MO | 1540 | 1.19 | TU | 1523 | 0.67 | MO | 1448 | 1.04 | |
| | 2001 | 2.41 | | | | | 2048 | 2.44 | | 2051 | 3.00 | | 2009 | 2.59 | |
| 5 | 0219 | 0.53 | 20 | 0201 | 0.17 | 5 | 0250 | 0.66 | 20 | 0312 | 0.12 | 5 | 0214 | 0.73 | |
| | 0901 | 3.08 | | 0830 | 3.57 | | 0934 | 3.05 | | 0933 | 3.79 | | 0839 | 3.11 | |
| SA | 1536 | 1.19 | SU | 1500 | 0.88 | TU | 1602 | 1.25 | WE | 1604 | 0.69 | TU | 1506 | 1.06 | |
| | 2032 | 2.33 | | | | | ● 2114 | 2.40 | | ● 2136 | 2.96 | | 2032 | 2.62 | |
| 6 | 0240 | 0.58 | 21 | 0241 | 0.10 | 6 | 0312 | 0.73 | 21 | 0354 | 0.30 | 6 | 0233 | 0.73 | |
| | 0931 | 3.03 | | 0912 | 3.68 | | 0959 | 2.97 | | 1015 | 3.60 | | 0901 | 3.07 | |
| SU | 1609 | 1.26 | MO | 1545 | 0.85 | WE | 1627 | 1.31 | TH | 1649 | 0.79 | WE | 1524 | 1.09 | |
| | ● 2101 | 2.24 | | | | | 2140 | 2.34 | | 2224 | 2.83 | | 2056 | 2.63 | |
| 7 | 0302 | 0.65 | 22 | 0324 | 0.13 | 7 | 0336 | 0.83 | 22 | 0440 | 0.60 | 7 | 0255 | 0.78 | |
| | 1001 | 2.95 | | 0957 | 3.68 | | 1025 | 2.86 | | 1059 | 3.30 | | 0923 | 2.99 | |
| MO | 1643 | 1.35 | TU | 1633 | 0.87 | TH | 1656 | 1.38 | FR | 1739 | 0.95 | TH | 1544 | 1.12 | |
| | 2131 | 2.14 | | | | | 2209 | 2.25 | | 2317 | 2.62 | | ● 2121 | 2.60 | |
| 8 | 0326 | 0.75 | 23 | 0409 | 0.27 | 8 | 0359 | 0.98 | 23 | 0536 | 1.00 | 8 | 0318 | 0.88 | |
| | 1032 | 2.85 | | 1044 | 3.55 | | 1052 | 2.72 | | 1146 | 2.92 | | 0944 | 2.89 | |
| TU | 1722 | 1.43 | WE | 1727 | 0.95 | FR | 1733 | 1.45 | SA | 1841 | 1.13 | FR | 1606 | 1.16 | |
| | 2201 | 2.03 | | | | | 2243 | 2.14 | | | | | 2150 | 2.55 | |
| 9 | 0352 | 0.87 | 24 | 0459 | 0.54 | 9 | 0422 | 1.17 | 24 | 0029 | 2.39 | 9 | 0341 | 1.02 | |
| | 1106 | 2.72 | | 1134 | 3.32 | | 1120 | 2.57 | | 0703 | 1.38 | | 1006 | 2.75 | |
| WE | 1812 | 1.51 | TH | 1829 | 1.05 | SA | 1824 | 1.51 | SU | 1244 | 2.52 | SA | 1628 | 1.22 | |
| | 2235 | 1.92 | | | | | 2332 | 2.03 | | 2004 | 1.25 | | 2223 | 2.47 | |
| 10 | 0418 | 1.03 | 25 | 0600 | 0.87 | 10 | 0449 | 1.39 | 25 | 0227 | 2.28 | 10 | 0405 | 1.21 | |
| | 1142 | 2.59 | | 1231 | 3.03 | | 1154 | 2.40 | | 0903 | 1.58 | | 1028 | 2.59 | |
| TH | 1918 | 1.54 | FR | 1943 | 1.12 | SU | 1939 | 1.52 | MO | 1419 | 2.21 | SU | 1651 | 1.28 | |
| | 2324 | 1.80 | | | | | 2138 | 1.26 | | | | | 2306 | 2.36 | |
| 11 | 0447 | 1.22 | 26 | 0113 | 2.16 | 11 | 0059 | 1.95 | 26 | 0447 | 2.44 | 11 | 0129 | 2.44 | |
| | 1226 | 2.45 | | 0727 | 1.21 | | 0532 | 1.64 | | 1102 | 1.51 | | 0910 | 1.66 | |
| FR | 2034 | 1.51 | SA | 1340 | 2.73 | MO | 1247 | 2.24 | TU | 1621 | 2.12 | MO | 1724 | 1.37 | |
| | | | | 2102 | 1.12 | | 2105 | 1.45 | | ● 2303 | 1.15 | | 2033 | 1.41 | |
| 12 | 0054 | 1.71 | 27 | 0305 | 2.17 | 12 | 0315 | 2.01 | 27 | 0558 | 2.70 | 12 | 0009 | 2.25 | |
| | 0526 | 1.42 | | 0914 | 1.41 | | 0900 | 1.79 | | 1216 | 1.32 | | 0526 | 1.69 | |
| SA | 1324 | 2.34 | SU | 1505 | 2.51 | | 1421 | 2.11 | | WE | 1743 | 2.19 | | 1131 | 2.17 |
| | 2144 | 1.40 | | 2221 | 1.02 | | 2216 | 1.30 | | | | | 1912 | 1.45 | |
| 13 | 0257 | 1.75 | 28 | 0454 | 2.37 | 13 | 0457 | 2.26 | 28 | 0002 | 1.01 | 13 | 0200 | 2.20 | |
| | 0733 | 1.62 | | 1055 | 1.42 | | 1107 | 1.68 | | 0639 | 2.89 | | 0857 | 1.81 | |
| SU | 1439 | 2.28 | MO | 1630 | 2.41 | WE | 1611 | 2.12 | TH | 1302 | 1.16 | WE | 1308 | 1.96 | |
| | 2235 | 1.25 | | ● 2326 | 0.89 | | ● 2311 | 1.10 | | 1828 | 2.29 | | 2108 | 1.41 | |
| 14 | 0437 | 1.95 | 29 | 0605 | 2.64 | 14 | 0547 | 2.58 | | | | 14 | 0418 | 2.38 | |
| | 0955 | 1.66 | | 1212 | 1.31 | | 1208 | 1.48 | | | | | 1108 | 1.62 | |
| MO | 1552 | 2.28 | TU | 1736 | 2.39 | TH | 1720 | 2.24 | | | | | 1605 | 1.95 | |
| | ● 2313 | 1.08 | | | | | 2355 | 0.86 | | | | | 2236 | 1.23 | |
| 15 | 0529 | 2.21 | 30 | 0016 | 0.78 | 15 | 0625 | 2.91 | | | | 15 | 0522 | 2.70 | |
| | 1117 | 1.57 | | 0652 | 2.86 | | 1251 | 1.25 | | | | | 1201 | 1.36 | |
| TU | 1647 | 2.32 | WE | 1306 | 1.20 | FR | 1806 | 2.41 | | | | | 1722 | 2.15 | |
| | 2346 | 0.90 | | 1824 | 2.40 | | | | | | | | 2335 | 0.98 | |
| 31 | 0055 | 0.70 | | | | | | | | | | 31 | 0051 | 1.01 | |
| | 0726 | 3.01 | | | | | | | | | | | 0704 | 2.98 | |
| TH | 1349 | 1.13 | | | | | | | | | | | 1337 | 0.94 | |
| | 1859 | 2.42 | | | | | | | | | | | 1908 | 2.46 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – CAPE FERGUSON

2019

LAT 19° 17' S LONG 147° 03' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | |
|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|------|
| 1 | 0110 | 1.04 | 16 | 0117 | 0.73 | 1 | 0146 | 1.11 | 16 | 0250 | 0.98 | 1 | 0216 | 1.06 | |
| | 0708 | 2.82 | | 0659 | 3.15 | | 0709 | 2.56 | | 0757 | 2.49 | | 0717 | 2.39 | |
| WE | 1340 | 0.80 | TH | 1335 | 0.38 | SA | 1346 | 0.56 | SU | 1421 | 0.41 | MO | 1353 | 0.35 | |
| | 1930 | 2.63 | | 1940 | 3.06 | | 2006 | 2.89 | | 2100 | 3.11 | | 2029 | 3.14 | |
| 2 | 0133 | 1.01 | 17 | 0159 | 0.74 | 2 | 0219 | 1.09 | 17 | 0335 | 1.04 | 2 | 0255 | 0.99 | |
| | 0726 | 2.81 | | 0735 | 3.05 | | 0735 | 2.54 | | 0835 | 2.33 | | 0757 | 2.40 | |
| TH | 1357 | 0.75 | FR | 1406 | 0.35 | SU | 1410 | 0.48 | MO | 1452 | 0.48 | TU | 1429 | 0.27 | |
| | 1954 | 2.75 | | 2021 | 3.16 | | 2040 | 3.03 | | ○ 2138 | 3.07 | | 2109 | 3.28 | |
| 3 | 0158 | 1.00 | 18 | 0243 | 0.83 | 3 | 0257 | 1.08 | 18 | 0421 | 1.12 | 3 | 0340 | 0.95 | |
| | 0745 | 2.79 | | 0812 | 2.88 | | 0808 | 2.49 | | 0913 | 2.17 | | 0843 | 2.37 | |
| FR | 1415 | 0.70 | SA | 1438 | 0.38 | MO | 1439 | 0.44 | TU | 1521 | 0.60 | WE | 1511 | 0.26 | |
| | 2021 | 2.85 | | 2102 | 3.18 | | ● 2119 | 3.11 | | 2217 | 2.97 | | ● 2152 | 3.34 | |
| 4 | 0225 | 1.01 | 19 | 0330 | 0.97 | 4 | 0341 | 1.11 | 19 | 0511 | 1.22 | 4 | 0429 | 0.94 | |
| | 0806 | 2.74 | | 0850 | 2.65 | | 0846 | 2.39 | | 0953 | 2.00 | | 0934 | 2.29 | |
| SA | 1436 | 0.66 | SU | 1509 | 0.48 | TU | 1515 | 0.46 | WE | 1550 | 0.73 | TH | 1558 | 0.32 | |
| | 2051 | 2.93 | | ○ 2146 | 3.11 | | 2202 | 3.13 | | 2255 | 2.83 | | 2239 | 3.30 | |
| 5 | 0256 | 1.07 | 20 | 0423 | 1.14 | 5 | 0435 | 1.17 | 20 | 0607 | 1.30 | 5 | 0525 | 0.97 | |
| | 0830 | 2.65 | | 0928 | 2.38 | | 0933 | 2.23 | | 1036 | 1.85 | | 1032 | 2.18 | |
| SU | 1458 | 0.65 | MO | 1540 | 0.64 | WE | 1559 | 0.55 | TU | 1621 | 0.89 | FR | 1651 | 0.46 | |
| | ● 2126 | 2.96 | | 2230 | 2.97 | | 2251 | 3.09 | | 2334 | 2.67 | | 2331 | 3.19 | |
| 6 | 0333 | 1.16 | 21 | 0525 | 1.31 | 6 | 0540 | 1.23 | 21 | 0711 | 1.35 | 6 | 0631 | 0.99 | |
| | 0859 | 2.52 | | 1008 | 2.10 | | 1030 | 2.06 | | 1131 | 1.72 | | 1139 | 2.06 | |
| MO | 1524 | 0.68 | TU | 1609 | 0.82 | TH | 1653 | 0.69 | FR | 1656 | 1.05 | SA | 1751 | 0.67 | |
| | 2206 | 2.94 | | 2317 | 2.79 | | 2348 | 2.99 | | | | | SA | 1656 | 1.11 |
| 7 | 0421 | 1.30 | 22 | 0641 | 1.42 | 7 | 0659 | 1.24 | 22 | 0019 | 2.51 | 7 | 0028 | 3.01 | |
| | 0933 | 2.34 | | 1056 | 1.86 | | 1146 | 1.90 | | 0821 | 1.35 | | 0744 | 0.98 | |
| TU | 1557 | 0.77 | WE | 1640 | 1.02 | FR | 1801 | 0.87 | SA | 1246 | 1.64 | SU | 1304 | 1.99 | |
| | 2255 | 2.87 | | | | | | | | 1739 | 1.23 | | 1904 | 0.91 | |
| 8 | 0532 | 1.44 | 23 | 0012 | 2.61 | 8 | 0056 | 2.88 | 23 | 0116 | 2.37 | 8 | 0136 | 2.81 | |
| | 1017 | 2.11 | | 0807 | 1.44 | | 0822 | 1.17 | | 0933 | 1.28 | | 0856 | 0.91 | |
| WE | 1641 | 0.92 | TH | 1212 | 1.67 | SA | 1330 | 1.84 | SU | 1420 | 1.64 | MO | 1439 | 2.02 | |
| | 2355 | 2.76 | | 1724 | 1.23 | | 1925 | 1.02 | | 1848 | 1.39 | | 2036 | 1.10 | |
| 9 | 0708 | 1.50 | 24 | 0128 | 2.46 | 9 | 0216 | 2.81 | 24 | 0232 | 2.28 | 9 | 0252 | 2.65 | |
| | 1127 | 1.88 | | 0946 | 1.35 | | 0937 | 1.02 | | 1028 | 1.18 | | 1004 | 0.80 | |
| TH | 1757 | 1.09 | FR | 1410 | 1.61 | SA | 1509 | 1.94 | MO | 1547 | 1.74 | TU | 1607 | 2.17 | |
| | | | | 1849 | 1.40 | | 2100 | 1.10 | | 2048 | 1.50 | | ● 2211 | 1.19 | |
| 10 | 0115 | 2.67 | 25 | 0308 | 2.41 | 10 | 0333 | 2.80 | 25 | 0348 | 2.26 | 10 | 0404 | 2.54 | |
| | 0855 | 1.42 | | 1049 | 1.22 | | 1037 | 0.84 | | 1107 | 1.06 | | 1102 | 0.68 | |
| FR | 1337 | 1.75 | SA | 1552 | 1.71 | MO | 1627 | 2.14 | TU | 1656 | 1.90 | WE | 1723 | 2.40 | |
| | 1945 | 1.21 | | 2105 | 1.48 | | ● 2225 | 1.09 | | ● 2232 | 1.50 | | 2333 | 1.16 | |
| 11 | 0255 | 2.70 | 26 | 0423 | 2.44 | 11 | 0434 | 2.82 | 26 | 0440 | 2.26 | 11 | 0506 | 2.47 | |
| | 1017 | 1.21 | | 1127 | 1.09 | | 1127 | 0.68 | | 1136 | 0.95 | | 1152 | 0.57 | |
| SA | 1542 | 1.88 | SU | 1700 | 1.88 | TU | 1728 | 2.39 | WE | 1742 | 2.10 | TH | 1822 | 2.64 | |
| | 2130 | 1.18 | | 2236 | 1.44 | | 2334 | 1.03 | | 2338 | 1.44 | | | | |
| 12 | 0413 | 2.85 | 27 | 0508 | 2.49 | 12 | 0523 | 2.82 | 27 | 0516 | 2.28 | 12 | 0038 | 1.08 | |
| | 1111 | 0.97 | | 1156 | 0.98 | | 1209 | 0.55 | | 1203 | 0.83 | | 0556 | 2.41 | |
| SU | 1652 | 2.13 | MO | 1741 | 2.06 | WE | 1819 | 2.62 | TH | 1817 | 2.31 | FR | 1235 | 0.49 | |
| | ● 2248 | 1.04 | | ● 2332 | 1.35 | | | | | | | | 1155 | 0.74 | |
| 13 | 0506 | 3.00 | 28 | 0539 | 2.54 | 13 | 0030 | 0.97 | 28 | 0024 | 1.35 | 13 | 0131 | 1.01 | |
| | 1153 | 0.76 | | 1221 | 0.89 | | 0604 | 2.78 | | 0546 | 2.30 | | 0638 | 2.36 | |
| MO | 1742 | 2.40 | TU | 1814 | 2.23 | TH | 1246 | 0.45 | FR | 1228 | 0.71 | SA | 1311 | 0.45 | |
| | 2346 | 0.89 | | | | | 1902 | 2.82 | | 1848 | 2.52 | | 1947 | 2.97 | |
| 14 | 0548 | 3.11 | 29 | 0012 | 1.27 | 14 | 0120 | 0.94 | 29 | 0102 | 1.25 | 14 | 0215 | 0.96 | |
| | 1231 | 0.59 | | 0605 | 2.56 | | 0642 | 2.72 | | 0613 | 2.32 | | 0716 | 2.32 | |
| TU | 1823 | 2.66 | WE | 1244 | 0.81 | FR | 1319 | 0.40 | SA | 1254 | 0.59 | SU | 1342 | 0.44 | |
| | | | | 1842 | 2.40 | | 1942 | 2.98 | | 1920 | 2.74 | | 2020 | 3.04 | |
| 15 | 0033 | 0.78 | 30 | 0045 | 1.21 | 15 | 0206 | 0.94 | 30 | 0138 | 1.16 | 15 | 0254 | 0.95 | |
| | 0624 | 3.16 | | 0626 | 2.57 | | 0719 | 2.62 | | 0642 | 2.36 | | 0751 | 2.27 | |
| WE | 1304 | 0.46 | TH | 1304 | 0.73 | SA | 1350 | 0.38 | SU | 1321 | 0.46 | MO | 1411 | 0.45 | |
| | 1902 | 2.88 | | 1909 | 2.57 | | 2020 | 3.08 | | 1953 | 2.96 | | 2053 | 3.07 | |
| 31 | 0115 | 1.16 | | | | 31 | 0115 | 1.16 | | | | 31 | 0245 | 0.80 | |
| | 0647 | 2.57 | | | | | 0647 | 2.57 | | | | | 0752 | 2.45 | |
| FR | 1324 | 0.64 | | | | | FR | 1324 | 0.64 | | | | WE | 1419 | 0.11 |
| | 1937 | 2.74 | | | | | | | | | | | 2053 | 3.45 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – CAPE FERGUSON

2019

LAT 19° 17' S LONG 147° 03' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---|------------------------------|--|------------------------------|--|---------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0421 1001 SU 1618 2232 | 0.50 2.67 0.38 3.20 | 16 0350 0939 MO 1526 2147 | 0.94 2.28 0.95 2.48 | 1 0425 1036 TU 1705 2241 | 0.49 2.72 0.94 2.54 | 16 0321 0955 WE 1542 2120 | 0.76 2.47 1.24 2.24 | 1 0506 1247 FR 2021 2218 | 0.92 2.52 1.34 1.18 | 16 0354 1131 SA 1842 2220 | 0.80 2.61 1.50 1.75 | 1 0509 1321 SU 2119 | 1.09 2.53 1.28 | 16 0509 1222 MO 1945 | 0.82 2.88 1.30 |
| 2 0509 1056 MO 1714 2317 | 0.62 2.51 0.73 2.83 | 17 0408 1012 TU 1549 2203 | 1.00 2.20 1.13 2.31 | 2 0511 1142 WE 1837 2331 | 0.71 2.51 1.26 2.11 | 17 0337 1039 TH 1628 2142 | 0.84 2.39 1.43 2.04 | 2 0031 0654 SA 1440 2218 | 1.59 1.16 2.47 1.18 | 17 0446 1247 SU 2034 2202 | 0.98 2.54 1.41 1.20 | 2 0149 0654 MO 1452 2234 | 1.54 1.31 2.47 1.14 | 17 0021 0631 TU 1337 2105 | 1.78 1.01 2.81 1.17 |
| 3 0607 1206 TU 1834 | 0.78 2.33 1.10 | 18 0423 1055 WE 1614 2220 | 1.07 2.10 1.34 2.13 | 3 0621 1324 TH 2029 | 0.95 2.36 1.37 | 18 0357 1139 FR 1831 2205 | 0.95 2.29 1.59 1.81 | 3 0311 0855 SU 1615 2315 | 1.56 1.24 2.55 0.98 | 18 0027 0701 MO 1422 2202 | 1.56 1.14 2.58 1.20 | 3 0342 0902 TU 1606 2317 | 1.64 1.39 2.48 1.00 | 18 0224 0812 WE 1454 2211 | 1.80 1.14 2.80 0.97 |
| 4 0011 0725 WE 1349 | 2.42 0.92 2.23 | 19 0438 1201 TH 1658 2239 | 1.15 2.01 1.58 1.92 | 4 0103 0809 FR 1533 2236 | 1.75 1.09 2.42 1.21 | 19 0427 1311 SA | 1.10 2.24 | 4 0454 1022 MO 1708 2353 | 1.75 1.18 2.64 0.83 | 19 0316 0854 TU 1542 2253 | 1.65 1.13 2.72 0.95 | 4 0456 1025 WE 1654 2303 | 1.83 1.37 2.51 0.77 | 19 0357 0944 TH 1600 2303 | 2.00 1.16 2.82 0.77 |
| 5 0134 0854 TH 1552 | 2.05 0.96 2.33 | 20 0630 1350 FR 2054 2258 | 1.25 1.99 1.66 1.69 | 5 0343 0949 SA 1700 2342 | 1.67 1.07 2.61 0.97 | 20 0743 1511 SU 2258 2342 | 1.23 2.34 1.30 0.97 | 5 0536 1120 TU 1743 | 1.95 1.09 2.70 | 20 0432 1014 WE 1638 2333 | 1.92 1.01 2.88 0.72 | 5 0538 1121 TH 1729 | 2.03 1.31 2.54 | 20 0505 1058 FR 1654 2347 | 2.28 1.11 2.84 0.59 |
| 6 0340 1019 FR 1722 | 1.89 0.89 2.58 | 21 0841 1600 SA 2330 2351 | 1.23 2.17 1.45 1.09 | 6 0517 1103 SU 1746 2329 | 1.84 0.96 2.75 1.04 | 21 0357 0933 MO 1626 1810 | 1.59 1.13 2.59 0.73 | 6 0024 0605 WE 1200 1810 | 0.73 2.13 1.01 2.73 | 21 0520 1114 TH 1722 1810 | 2.21 0.87 3.01 0.73 | 6 0016 0610 FR 1203 1757 | 0.79 2.22 1.25 2.55 | 21 0557 1200 SA 1739 | 2.57 1.05 2.83 |
| 7 0516 1126 SA 1813 | 1.95 0.78 2.78 | 22 0357 1007 SU 1704 2356 | 1.62 1.08 2.45 1.20 | 7 0023 0559 MO 1153 1821 | 0.79 2.02 0.85 2.84 | 22 0459 1043 TU 1713 1821 | 1.85 0.92 2.84 0.84 | 7 0050 0631 TH 1232 1834 | 0.67 2.28 0.96 2.73 | 22 0009 0601 FR 1204 1759 | 0.51 2.50 0.75 3.09 | 7 0039 0638 SA 1237 1819 | 0.71 2.39 1.21 2.54 | 22 0026 0641 SU 1253 1819 | 0.44 2.83 0.99 2.79 |
| 8 0043 0608 SU 1215 | 0.89 2.06 0.67 | 23 0510 1107 MO 1744 1850 | 1.82 0.86 2.74 2.91 | 8 0055 0628 TU 1231 1847 | 0.69 2.17 0.77 2.87 | 23 0001 0537 WE 1134 1751 | 0.79 2.14 0.70 3.07 | 8 0112 0657 FR 1258 1855 | 0.63 2.41 0.94 2.71 | 23 0042 0639 SA 1249 1835 | 0.35 2.77 0.69 3.10 | 8 0059 0705 SU 1308 1840 | 0.65 2.55 1.19 2.51 | 23 0100 0721 MO 1341 1858 | 0.34 3.04 0.97 2.72 |
| 9 0121 0643 MO 1252 | 0.77 2.16 0.61 | 24 0026 0548 TU 1153 1919 | 0.96 2.06 0.62 2.96 | 9 0123 0653 WE 1259 1911 | 0.65 2.29 0.73 2.87 | 24 0033 0612 TH 1217 1825 | 0.57 2.42 0.51 3.25 | 9 0130 0721 SA 1321 1913 | 0.61 2.52 0.95 2.68 | 24 0113 0718 SU 1333 1911 | 0.23 2.98 0.68 3.04 | 9 0117 0730 MO 1337 1859 | 0.58 2.70 1.17 2.49 | 24 0132 0800 TU 1427 1937 | 0.28 3.19 0.98 2.63 |
| 10 0152 0710 TU 1321 | 0.73 2.24 0.58 | 25 0057 0621 WE 1233 1944 | 0.73 2.32 0.38 2.97 | 10 0146 0716 TH 1321 1932 | 0.65 2.39 0.72 2.86 | 25 0104 0646 FR 1257 1859 | 0.38 2.69 0.38 3.35 | 10 0146 0744 SU 1345 1931 | 0.59 2.62 0.97 2.62 | 25 0144 0757 MO 1418 1948 | 0.16 3.13 0.75 2.90 | 10 0136 0758 TU 1408 1921 | 0.52 2.84 1.17 2.46 | 25 0204 0839 WE 1512 2017 | 0.28 3.26 1.02 2.50 |
| 11 0217 0735 WE 1343 | 0.73 2.31 0.57 | 26 0128 0656 TH 1311 2006 | 0.53 2.57 0.20 3.46 | 11 0204 0738 FR 1340 1951 | 0.66 2.46 0.73 2.81 | 26 0135 0723 SA 1337 1934 | 0.24 2.92 0.34 3.35 | 11 0201 0810 MO 1411 1949 | 0.56 2.69 1.01 2.55 | 26 0216 0840 TU 1507 2027 | 0.17 3.20 0.87 2.68 | 11 0157 0828 WE 1443 1948 | 0.46 2.95 1.18 2.42 | 26 0236 0919 TH 1559 2056 | 0.33 3.25 1.10 2.36 |
| 12 0239 0758 TH 1402 | 0.77 2.36 0.58 | 27 0200 0732 FR 1350 2027 | 0.37 2.79 0.10 3.54 | 12 0219 0801 SA 1400 2009 | 0.68 2.51 0.76 2.75 | 27 0206 0802 SU 1420 2010 | 0.16 3.07 0.41 3.22 | 12 0218 0838 TU 1440 2008 | 0.54 2.75 1.08 2.46 | 27 0248 0925 WE 1602 2107 | 0.25 3.16 1.03 2.41 | 12 0221 0902 TH 1523 2021 | 0.43 3.03 1.20 2.35 | 27 0307 0959 FR 1649 2135 | 0.44 3.16 1.20 2.19 |
| 13 0257 0821 FR 1420 | 0.81 2.38 0.62 | 28 0233 0813 SA 1431 2048 | 0.27 2.93 0.13 3.49 | 13 0234 0825 SU 1422 2027 | 0.69 2.54 0.83 2.66 | 28 0238 0845 MO 1505 2048 | 0.15 3.11 0.59 2.98 | 13 0236 0910 WE 1515 2032 | 0.54 2.77 1.18 2.34 | 28 0321 1012 TH 1706 2148 | 0.41 3.04 1.20 2.13 | 13 0250 0942 FR 1611 2101 | 0.44 3.06 1.25 2.23 | 28 0337 1039 SA 1741 2214 | 0.60 3.02 1.31 2.02 |
| 14 0313 0845 SA 1441 | 0.85 2.37 0.68 | 29 0307 0856 SU 1514 2118 | 0.25 2.97 0.29 3.28 | 14 0250 0851 MO 1446 2044 | 0.70 2.55 0.93 2.54 | 29 0312 0931 TU 1559 2128 | 0.24 3.05 0.85 2.65 | 14 0258 0947 TH 1601 2100 | 0.57 2.76 1.30 2.18 | 29 0353 1103 FR 1820 2235 | 0.62 2.87 1.32 1.86 | 14 0326 1028 SA 1709 2149 | 0.50 3.04 1.31 2.08 | 29 0405 1121 SU 1843 2258 | 0.78 2.84 1.40 1.86 |
| 15 0331 0911 SU 1504 | 0.89 2.34 0.79 | 30 0345 0943 MO 1604 2158 | 0.33 2.89 0.58 2.95 | 15 0306 0921 TU 1512 2101 | 0.72 2.53 1.07 2.41 | 30 0347 1023 WE 1707 2209 | 0.42 2.90 1.12 2.27 | 15 0322 1033 FR 1708 2134 | 0.66 2.70 1.43 1.98 | 30 0426 1204 SA 1943 2344 | 0.85 2.68 1.35 1.64 | 15 0410 1120 SU 1821 2251 | 0.64 2.97 1.34 1.91 | 30 0435 1205 MO 1951 | 0.99 2.66 1.43 1.43 |
| | | | | 31 | 0422 1123 TH 1837 2258 | 0.66 2.70 1.32 1.89 | | | | | | | 31 | 0000 0509 TU 1259 2111 | 1.72 1.20 2.49 1.40 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – TOWNSVILLE

2019

LAT 19° 15' S LONG 146° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | |
|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|------|------|
| 1 | 0035 | 0.75 | 16 | 0607 | 2.78 | 1 | 0137 | 0.83 | 16 | 0038 | 0.80 | 1 | 0054 | 1.06 | | |
| | 0649 | 3.08 | | 1218 | 1.65 | | 0756 | 3.40 | | 0700 | 3.52 | | 0711 | 3.34 | | |
| TU | 1309 | 1.30 | WE | 1724 | 2.69 | FR | 1432 | 1.26 | SA | 1335 | 1.24 | FR | 1344 | 1.20 | | |
| | 1826 | 2.90 | | | | 1938 | 2.73 | | 1840 | 2.91 | | 1906 | 2.70 | | | |
| 2 | 0112 | 0.69 | 17 | 0024 | 0.90 | 2 | 0201 | 0.83 | 17 | 0116 | 0.55 | 2 | 0125 | 1.00 | | |
| | 0728 | 3.24 | | 0640 | 3.09 | | 0824 | 3.44 | | 0737 | 3.83 | | 0737 | 3.41 | | |
| WE | 1356 | 1.28 | TH | 1302 | 1.48 | SA | 1502 | 1.28 | SU | 1413 | 1.04 | SA | 1414 | 1.17 | | |
| | 1903 | 2.83 | | | | 2006 | 2.73 | | 1923 | 3.11 | | 1932 | 2.77 | | | |
| 3 | 0142 | 0.68 | 18 | 0054 | 0.69 | 3 | 0217 | 0.83 | 18 | 0153 | 0.35 | 3 | 0149 | 0.96 | | |
| | 0802 | 3.34 | | 0715 | 3.39 | | 0850 | 3.44 | | 0816 | 4.06 | | 0801 | 3.44 | | |
| TH | 1436 | 1.29 | FR | 1342 | 1.32 | SU | 1528 | 1.33 | MO | 1451 | 0.90 | SU | 1439 | 1.18 | | |
| | 1937 | 2.76 | | | | 2031 | 2.73 | | 2008 | 3.27 | | 1956 | 2.84 | | | |
| 4 | 0206 | 0.70 | 19 | 0127 | 0.49 | 4 | 0232 | 0.84 | 19 | 0231 | 0.24 | 4 | 0204 | 0.94 | | |
| | 0834 | 3.39 | | 0752 | 3.68 | | 0916 | 3.41 | | 0856 | 4.18 | | 0824 | 3.44 | | |
| FR | 1513 | 1.33 | SA | 1423 | 1.17 | MO | 1551 | 1.39 | TU | 1530 | 0.83 | MO | 1500 | 1.22 | | |
| | 2009 | 2.69 | | | | 2054 | 2.72 | | 2053 | 3.35 | | 2017 | 2.88 | | | |
| 5 | 0224 | 0.74 | 20 | 0201 | 0.32 | 5 | 0251 | 0.86 | 20 | 0311 | 0.27 | 5 | 0217 | 0.93 | | |
| | 0906 | 3.38 | | 0832 | 3.91 | | 0941 | 3.35 | | 0938 | 4.15 | | 0847 | 3.42 | | |
| SA | 1547 | 1.40 | SU | 1505 | 1.06 | TU | 1613 | 1.46 | WE | 1611 | 0.85 | TU | 1517 | 1.26 | | |
| | 2038 | 2.60 | | | | ● | 2119 | 2.69 | | 2140 | 3.32 | | 2038 | 2.92 | | |
| 6 | 0242 | 0.79 | 21 | 0240 | 0.23 | 6 | 0312 | 0.92 | 21 | 0353 | 0.45 | 6 | 0234 | 0.93 | | |
| | 0937 | 3.33 | | 0915 | 4.04 | | 1007 | 3.26 | | 1020 | 3.97 | | 0848 | 3.42 | | |
| SU | 1621 | 1.48 | MO | 1550 | 1.01 | WE | 1637 | 1.53 | | TH | 1655 | 0.96 | WE | 1504 | 0.68 | |
| | 2106 | 2.52 | | | | 2145 | 2.63 | | 2229 | 3.18 | | 2043 | 3.51 | | | |
| 7 | 0303 | 0.86 | 22 | 0321 | 0.26 | 7 | 0334 | 1.03 | 22 | 0439 | 0.77 | 7 | 0253 | 0.96 | | |
| | 1008 | 3.24 | | 1000 | 4.05 | | 1033 | 3.15 | | 1103 | 3.65 | | 0930 | 3.30 | | |
| MO | 1654 | 1.57 | TU | 1638 | 1.03 | TH | 1706 | 1.61 | | FR | 1744 | 1.13 | TH | 1549 | 1.33 | |
| | 2135 | 2.42 | | | | 2215 | 2.54 | | 2321 | 2.96 | | ● | 2126 | 2.92 | | |
| 8 | 0327 | 0.95 | 23 | 0406 | 0.41 | 8 | 0357 | 1.18 | 23 | 0539 | 1.19 | 8 | 0314 | 1.05 | | |
| | 1039 | 3.13 | | 1047 | 3.93 | | 1100 | 3.01 | | 1149 | 3.25 | | 0950 | 3.20 | | |
| TU | 1732 | 1.66 | WE | 1732 | 1.11 | FR | 1743 | 1.68 | | SA | 1845 | 1.32 | FR | 1604 | 1.37 | |
| | 2206 | 2.31 | | | | 2251 | 2.43 | | 2301 | 3.16 | | 2154 | 2.87 | | | |
| 9 | 0353 | 1.09 | 24 | 0457 | 0.68 | 9 | 0421 | 1.38 | 24 | 0024 | 2.71 | 9 | 0336 | 1.20 | | |
| | 1113 | 3.00 | | 1135 | 3.69 | | 1128 | 2.85 | | 0709 | 1.59 | | 1011 | 3.07 | | |
| WE | 1819 | 1.74 | TH | 1831 | 1.23 | SU | 1836 | 1.74 | | SU | 1244 | 2.83 | SA | 1617 | 1.41 | |
| | 2244 | 2.19 | | | | 2342 | 2.31 | | 2007 | 1.47 | | 2229 | 2.79 | | | |
| 10 | 0420 | 1.26 | 25 | 0600 | 1.04 | 10 | 0449 | 1.61 | 25 | 0224 | 2.55 | 10 | 0401 | 1.39 | | |
| | 1150 | 2.86 | | 1228 | 3.38 | | 1202 | 2.68 | | 0912 | 1.80 | | 1033 | 2.90 | | |
| TH | 1925 | 1.78 | FR | 1942 | 1.32 | SU | 1944 | 1.76 | | MO | 1414 | 2.48 | SU | 1635 | 1.48 | |
| | 2337 | 2.06 | | | | 2149 | 1.47 | | 2149 | 1.47 | | 2313 | 2.68 | | | |
| 11 | 0449 | 1.46 | 26 | 0100 | 2.48 | 11 | 0055 | 2.23 | 26 | 0449 | 2.72 | 11 | 0430 | 1.62 | | |
| | 1233 | 2.72 | | 0729 | 1.40 | | 0533 | 1.86 | | 1110 | 1.69 | | 1102 | 2.70 | | |
| FR | 2051 | 1.74 | SU | 1332 | 3.05 | MO | 1252 | 2.52 | | 1630 | 2.40 | | 1704 | 1.57 | | |
| | | | | 2104 | 1.32 | | 2108 | 1.69 | | ● | 2315 | 1.33 | | | | |
| 12 | 0054 | 1.97 | 27 | 0303 | 2.44 | 12 | 0309 | 2.26 | 27 | 0601 | 3.01 | 12 | 0011 | 2.56 | | |
| | 0529 | 1.68 | | 0919 | 1.62 | | 0853 | 2.03 | | 1219 | 1.47 | | 0517 | 1.89 | | |
| SA | 1328 | 2.60 | SU | 1501 | 2.80 | | 1413 | 2.39 | | WE | 1749 | 2.49 | | 1144 | 2.48 | |
| | 2200 | 1.62 | | 2226 | 1.23 | | 2224 | 1.53 | | | | | | 1912 | 1.67 | |
| 13 | 0307 | 2.01 | 28 | 0453 | 2.65 | 13 | 0455 | 2.52 | 28 | 0012 | 1.18 | 13 | 0139 | 2.49 | | |
| | 0754 | 1.87 | | 1103 | 1.62 | | 1112 | 1.92 | | 0641 | 3.21 | | 0839 | 2.04 | | |
| SU | 1444 | 2.54 | MO | 1633 | 2.70 | | 1602 | 2.39 | | TH | 1307 | 1.30 | | 1307 | 2.25 | |
| | 2247 | 1.47 | | ● | 2334 | 1.08 | | ● | 2317 | 1.31 | | 1833 | 2.60 | | 2105 | 1.64 |
| 14 | 0443 | 2.22 | 29 | 0605 | 2.93 | 14 | 0545 | 2.85 | | | | 14 | 0410 | 2.64 | | |
| | 1002 | 1.90 | | 1219 | 1.49 | | 1212 | 1.70 | | | | | 1109 | 1.87 | | |
| MO | 1556 | 2.54 | TU | 1741 | 2.69 | | 1708 | 2.51 | | | | | 1541 | 2.21 | | |
| | ● | 2323 | 1.29 | | | | | | | | | | 2237 | 1.45 | | |
| 15 | 0532 | 2.49 | 30 | 0026 | 0.95 | 15 | 0000 | 1.06 | | | | 15 | 0520 | 2.96 | | |
| | 1126 | 1.80 | | 0652 | 3.16 | | 0624 | 3.19 | | | | | 1204 | 1.59 | | |
| TU | 1645 | 2.60 | WE | 1313 | 1.36 | | 1256 | 1.47 | | | | | 1712 | 2.40 | | |
| | 2354 | 1.10 | | 1830 | 2.70 | | 1757 | 2.70 | | | | | 2336 | 1.19 | | |
| 31 | 0106 | 0.87 | | | | | | | | | | 31 | 0102 | 1.18 | | |
| | 0727 | 3.32 | | | | | | | | | | | 0708 | 3.31 | | |
| TH | 1356 | 1.28 | | | | | | | | | | | 1345 | 1.09 | | |
| | 1907 | 2.72 | | | | | | | | | | | 1915 | 2.78 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – TOWNSVILLE

2019

LAT 19° 15' S LONG 146° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | | Time | m | | | | | |
|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|-----------|------|-----------|--------|------|------|------|
| 1 | 0119 | 1.25 | 16 | 0124 | 0.94 | 1 | 0149 | 1.33 | 16 | 0302 | 1.19 | 1 | 0220 | 1.27 | 16 | | | | |
| | 0714 | 3.14 | | 0704 | 3.46 | | 0707 | 2.90 | | 0803 | 2.77 | | 0712 | 2.75 | | 0342 | 1.18 | | |
| WE | 1350 | 0.99 | TH | 1344 | 0.59 | SA | 1349 | 0.74 | SU | 1430 | 0.64 | MO | 1353 | 0.51 | TU | 1446 | 0.72 | | |
| | 1936 | 2.95 | | 1946 | 3.36 | | 2009 | 3.23 | | 2106 | 3.42 | | 2031 | 3.50 | | 2131 | 3.34 | | |
| 2 | 0139 | 1.22 | 17 | 0208 | 0.96 | 2 | 0220 | 1.29 | 17 | 0347 | 1.26 | 2 | 0259 | 1.18 | 17 | 0417 | 1.25 | | |
| | 0731 | 3.13 | | 0740 | 3.36 | | 0732 | 2.90 | | 0842 | 2.61 | | 0753 | 2.77 | | 0909 | 2.41 | | |
| TH | 1406 | 0.95 | FR | 1415 | 0.56 | SU | 1410 | 0.65 | MO | 1458 | 0.71 | TU | 1427 | 0.42 | WE | 1508 | 0.79 | | |
| | 1959 | 3.07 | | 2027 | 3.47 | | 2042 | 3.38 | | ○ 2145 | 3.37 | | 2112 | 3.65 | | ○ 2202 | 3.26 | | |
| 3 | 0200 | 1.20 | 18 | 0254 | 1.05 | 3 | 0255 | 1.27 | 18 | 0432 | 1.35 | 3 | 0343 | 1.13 | 18 | 0451 | 1.34 | | |
| | 0747 | 3.11 | | 0817 | 3.18 | | 0806 | 2.86 | | 0921 | 2.44 | | 0840 | 2.75 | | 0942 | 2.33 | | |
| FR | 1420 | 0.89 | SA | 1444 | 0.60 | MO | 1436 | 0.59 | TU | 1526 | 0.83 | WE | 1509 | 0.39 | TH | 1532 | 0.88 | | |
| | 2024 | 3.19 | | 2109 | 3.49 | | ● 2121 | 3.48 | | 2223 | 3.27 | | ● 2155 | 3.72 | | 2233 | 3.14 | | |
| 4 | 0222 | 1.21 | 19 | 0342 | 1.19 | 4 | 0339 | 1.30 | 19 | 0522 | 1.45 | 4 | 0432 | 1.12 | 19 | 0528 | 1.44 | | |
| | 0806 | 3.08 | | 0855 | 2.94 | | 0845 | 2.77 | | 1001 | 2.28 | | 0933 | 2.67 | | 1016 | 2.24 | | |
| SA | 1434 | 0.84 | SU | 1514 | 0.71 | TU | 1511 | 0.60 | WE | 1554 | 0.97 | TH | 1555 | 0.46 | FR | 1559 | 1.00 | | |
| | 2054 | 3.28 | | ○ 2152 | 3.42 | | 2204 | 3.52 | | 2301 | 3.12 | | 2242 | 3.69 | | 2304 | 2.99 | | |
| 5 | 0248 | 1.25 | 20 | 0435 | 1.37 | 5 | 0435 | 1.35 | 20 | 0619 | 1.54 | 5 | 0529 | 1.15 | 20 | 0609 | 1.52 | | |
| | 0829 | 3.01 | | 0933 | 2.66 | | 0933 | 2.62 | | 1046 | 2.12 | | 1034 | 2.56 | | 1056 | 2.13 | | |
| SU | 1453 | 0.81 | MO | 1543 | 0.87 | WE | 1554 | 0.69 | TH | 1626 | 1.13 | FR | 1648 | 0.61 | SA | 1627 | 1.16 | | |
| | ● 2129 | 3.33 | | 2235 | 3.27 | | 2252 | 3.47 | | 2340 | 2.95 | | 2331 | 3.57 | | 2336 | 2.83 | | |
| 6 | 0321 | 1.34 | 21 | 0536 | 1.54 | 6 | 0540 | 1.42 | 21 | 0728 | 1.58 | 6 | 0631 | 1.18 | 21 | 0704 | 1.58 | | |
| | 0900 | 2.89 | | 1016 | 2.38 | | 1031 | 2.43 | | 1139 | 1.99 | | 1139 | 2.43 | | 1145 | 2.03 | | |
| MO | 1518 | 0.82 | TU | 1613 | 1.06 | TH | 1648 | 0.84 | FR | 1703 | 1.31 | SA | 1748 | 0.83 | SU | 1656 | 1.35 | | |
| | 2209 | 3.32 | | 2322 | 3.09 | | 2346 | 3.36 | | | | | | | | | | | |
| 7 | 0408 | 1.47 | 22 | 0654 | 1.65 | 7 | 0654 | 1.45 | 22 | 0026 | 2.78 | 7 | 0025 | 3.38 | 22 | 0012 | 2.66 | | |
| | 0936 | 2.71 | | 1107 | 2.12 | | 1144 | 2.25 | | 0840 | 1.57 | | 0742 | 1.19 | | 0814 | 1.58 | | |
| TU | 1551 | 0.91 | WE | 1649 | 1.28 | FR | 1757 | 1.03 | SA | 1252 | 1.90 | SU | 1252 | 2.32 | MO | 1249 | 1.96 | | |
| | 2256 | 3.24 | | | | | | | 1753 | 1.49 | | 1902 | 1.10 | | 1734 | 1.56 | | | |
| 8 | 0529 | 1.63 | 23 | 0014 | 2.89 | 8 | 0048 | 3.23 | 23 | 0124 | 2.64 | 8 | 0128 | 3.15 | 23 | 0055 | 2.50 | | |
| | 1023 | 2.47 | | 0826 | 1.64 | | 0818 | 1.39 | | 0945 | 1.49 | | 0856 | 1.13 | | 0923 | 1.51 | | |
| WE | 1635 | 1.07 | TH | 1219 | 1.93 | SA | 1311 | 2.16 | SU | 1433 | 1.90 | MO | 1429 | 2.31 | TU | 1426 | 1.96 | | |
| | 2352 | 3.12 | | 1745 | 1.49 | | 1921 | 1.21 | | 1907 | 1.66 | | 2034 | 1.32 | | 1906 | 1.77 | | |
| 9 | 0659 | 1.71 | 24 | 0135 | 2.73 | 9 | 0206 | 3.13 | 24 | 0246 | 2.56 | 9 | 0246 | 2.96 | 24 | 0156 | 2.36 | | |
| | 1131 | 2.23 | | 0950 | 1.53 | | 0936 | 1.25 | | 1037 | 1.38 | | 1006 | 1.02 | | 1016 | 1.40 | | |
| TH | 1750 | 1.27 | FR | 1433 | 1.88 | SU | 1500 | 2.21 | MO | 1603 | 2.02 | WE | 1607 | 2.45 | WE | 1609 | 2.10 | | |
| | | | | 1909 | 1.67 | | 2057 | 1.31 | | 2104 | 1.77 | | 2214 | 1.42 | | 2121 | 1.87 | | |
| 10 | 0103 | 3.00 | 25 | 0330 | 2.70 | 10 | 0328 | 3.10 | 25 | 0401 | 2.55 | 10 | 0404 | 2.84 | 25 | 0322 | 2.29 | | |
| | 0846 | 1.65 | | 1050 | 1.39 | | 1039 | 1.07 | | 1116 | 1.26 | | 1108 | 0.89 | | 1057 | 1.26 | | |
| FR | 1313 | 2.06 | SA | 1615 | 2.01 | | 1625 | 2.42 | | TU | 1708 | 2.20 | | 1724 | 2.69 | | 1716 | 2.32 | |
| | 1938 | 1.40 | | 2143 | 1.71 | | ● 2225 | 1.31 | | ○ 2253 | 1.74 | | 2342 | 1.38 | | ○ 2326 | 1.80 | | |
| 11 | 0242 | 3.00 | 26 | 0438 | 2.76 | 11 | 0432 | 3.12 | 26 | 0448 | 2.56 | 11 | 0509 | 2.77 | 26 | 0426 | 2.30 | | |
| | 1015 | 1.44 | | 1131 | 1.26 | | 1132 | 0.89 | | 1146 | 1.14 | | 1201 | 0.77 | | 1132 | 1.11 | | |
| SA | 1529 | 2.14 | SU | 1713 | 2.19 | | 1729 | 2.67 | | WE | 1749 | 2.40 | | 1824 | 2.93 | | FR | 1757 | 2.57 |
| | 2126 | 1.39 | | 2258 | 1.65 | | 2339 | 1.25 | | 2351 | 1.67 | | | | | | | | |
| 12 | 0409 | 3.13 | 27 | 0519 | 2.82 | 12 | 0524 | 3.12 | 27 | 0520 | 2.58 | 12 | 0048 | 1.28 | 27 | 0019 | 1.65 | | |
| | 1113 | 1.20 | | 1203 | 1.15 | | 1217 | 0.76 | | 1213 | 1.03 | | 0601 | 2.71 | | 0510 | 2.35 | | |
| SU | 1649 | 2.39 | MO | 1751 | 2.37 | | WE | 1821 | | TH | 1821 | 2.61 | | 1246 | 0.70 | | 1203 | 0.95 | |
| | ● 2247 | 1.26 | | ○ 2347 | 1.56 | | | | | | | | 1911 | 3.13 | | 1831 | 2.84 | | |
| 13 | 0505 | 3.30 | 28 | 0548 | 2.86 | 13 | 0039 | 1.19 | 28 | 0033 | 1.58 | 13 | 0141 | 1.20 | 28 | 0059 | 1.49 | | |
| | 1158 | 0.98 | | 1230 | 1.07 | | 0607 | 3.09 | | 0546 | 2.60 | | 0645 | 2.66 | | 0546 | 2.44 | | |
| MO | 1741 | 2.68 | TU | 1821 | 2.55 | | 1255 | 0.66 | | FR | 1237 | 0.91 | | 1324 | 0.66 | | 1234 | 0.77 | |
| | 2348 | 1.11 | | | | | 1906 | 3.12 | | 1851 | 2.83 | | 1950 | 3.28 | | 1904 | 3.11 | | |
| 14 | 0548 | 3.42 | 29 | 0024 | 1.49 | 14 | 0131 | 1.15 | 29 | 0109 | 1.48 | 14 | 0226 | 1.15 | 29 | 0137 | 1.31 | | |
| | 1237 | 0.80 | | 0611 | 2.87 | | 0647 | 3.01 | | 0609 | 2.64 | | 0724 | 2.61 | | 0624 | 2.56 | | |
| TU | 1825 | 2.95 | WE | 1253 | 0.99 | | 1330 | 0.61 | | SA | 1300 | 0.78 | | 1356 | 0.65 | | MO | 1306 | 0.58 |
| | | | | 1848 | 2.71 | | 1947 | 3.29 | | 1922 | 3.06 | | 2025 | 3.36 | | 1939 | 3.39 | | |
| 15 | 0038 | 0.99 | 30 | 0054 | 1.43 | 15 | 0217 | 1.15 | 30 | 0144 | 1.37 | 15 | 0305 | 1.15 | 30 | 0213 | 1.14 | | |
| | 0627 | 3.47 | | 0630 | 2.88 | | 0725 | 2.91 | | 0638 | 2.70 | | 0801 | 2.55 | | 0704 | 2.69 | | |
| WE | 1312 | 0.67 | TH | 1313 | 0.92 | | SA | 1401 | | SU | 1325 | 0.64 | | 1422 | 0.68 | | TU | 1341 | 0.40 |
| | 1906 | 3.18 | | 1913 | 2.88 | | 2027 | 3.39 | | 1954 | 3.29 | | 2058 | 3.38 | | 2017 | 3.64 | | |
| 31 | 0121 | 1.37 | | 0647 | 2.89 | | | | | | | | 31 | 0251 | 1.00 | | | | |
| | | | | FR | 1332 | 0.84 | | | | | | | ○ 2149 | 0.27 | | 0748 | 2.80 | | |
| | | | | | 1939 | 3.06 | | | | | | | 2057 | 3.82 | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – TOWNSVILLE

2019

LAT 19° 15' S LONG 146° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|----|--------------|---|---------------------|--------------|--------------|---|---------------------|----|--------------|---|---------------------|--------------|-----------|---|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0428 0.69 | 16 | 0349 1.17 | | 1 0430 0.71 | 16 | 0315 0.94 | | 1 0522 1.18 | 16 | 0354 0.95 | | 1 0530 1.35 | 16 | 0503 0.97 | |
| 1006 3.03 | | 0945 2.60 | | 1042 3.06 | | 1001 2.82 | | 1244 2.80 | | 1131 2.97 | | 1324 2.81 | 1217 | 3.23 | |
| SU 1618 0.56 | | MO 1521 1.14 | | TU 1717 1.16 | | WE 1531 1.42 | | FR 2034 1.55 | | SA 1833 1.70 | | SU 2121 1.46 | MO 1937 | 1.51 | |
| 2238 3.58 | | 2153 2.81 | | 2249 2.88 | | 2126 2.59 | | 2235 2.11 | | | | | | | |
| 2 0517 0.82 | 17 | 0357 1.22 | | 2 0520 0.95 | 17 | 0333 1.01 | | 2 0033 1.86 | 17 | 0447 1.16 | | 2 0207 1.81 | 17 | 0014 2.12 | |
| 1101 2.87 | | 1020 2.52 | | 1143 2.83 | | 1044 2.74 | | 0711 1.41 | | 1238 2.88 | | 0715 1.56 | 0626 | 1.18 | |
| MO 1719 0.93 | | TU 1545 1.33 | | WE 1843 1.48 | | TH 1608 1.62 | | SA 1453 2.76 | | SU 2017 1.66 | | MO 1505 2.76 | TU 1325 | 3.14 | |
| 2322 3.19 | | 2209 2.64 | | 2339 2.42 | | 2153 2.38 | | 2214 1.36 | | | | 2232 1.31 | 2100 | 1.39 | |
| 3 0614 0.99 | 18 | 0410 1.28 | | 3 0633 1.19 | 18 | 0358 1.13 | | 3 0334 1.86 | 18 | 0018 1.90 | | 3 0400 1.95 | 18 | 0201 2.09 | |
| 1203 2.67 | | 1104 2.43 | | 1318 2.65 | | 1141 2.63 | | 0920 1.45 | | 0657 1.34 | | 0931 1.61 | 0808 | 1.33 | |
| TU 1840 1.32 | | WE 1611 1.55 | | TH 2041 1.59 | | FR 1828 1.81 | | SU 1625 2.87 | | MO 1406 2.87 | | TU 1618 2.79 | WE 1444 | 3.09 | |
| 2228 2.45 | | 2227 2.13 | | 2227 2.13 | | | | 2315 1.14 | | 2155 1.45 | | 2319 1.17 | 2211 | 1.20 | |
| 4 0014 2.75 | 19 | 0430 1.37 | | 4 0100 2.03 | 19 | 0432 1.30 | | 4 0501 2.08 | 19 | 0258 1.91 | | 4 0504 2.15 | 19 | 0353 2.27 | |
| 0730 1.14 | | 1203 2.33 | | 0824 1.33 | | 1256 2.56 | | 1037 1.37 | | 0850 1.35 | | 1042 1.57 | 0943 | 1.37 | |
| WE 1341 2.51 | | TH 1651 1.79 | | 1543 2.72 | | SA 2043 1.81 | | MO 1714 2.97 | | TU 1536 3.00 | | WE 1703 2.83 | TH 1557 | 3.11 | |
| 2030 1.57 | | 2255 2.22 | | 2238 1.40 | | 2344 1.87 | | 2356 0.98 | | 2253 1.19 | | 2354 1.05 | 2306 | 0.99 | |
| 5 0129 2.34 | 20 | 0504 1.48 | | 5 0401 1.98 | 20 | 0741 1.45 | | 5 0540 2.29 | 20 | 0428 2.18 | | 5 0543 2.36 | 20 | 0504 2.55 | |
| 0903 1.19 | | 1328 2.29 | | 1006 1.27 | | 1458 2.62 | | 1131 1.27 | | 1013 1.23 | | 1133 1.50 | 1101 | 1.33 | |
| TH 1557 2.62 | | FR 2028 1.92 | | 1708 2.93 | | SU 2247 1.56 | | TU 1748 3.04 | | WE 1635 3.17 | | 1736 2.86 | FR 1654 | 3.13 | |
| 2235 1.51 | | 2351 1.98 | | 2343 1.14 | | | | 2336 0.94 | | | | 2353 0.80 | | | |
| 6 0352 2.18 | 21 | 0841 1.47 | | 6 0524 2.18 | 21 | 0341 1.84 | | 6 0029 0.87 | 21 | 0520 2.49 | | 6 0022 0.96 | 21 | 0558 2.85 | |
| 1032 1.10 | | 1553 2.43 | | 1115 1.13 | | 0930 1.36 | | 0610 2.47 | | 1115 1.09 | | 0614 2.55 | 1207 | 1.26 | |
| FR 1728 2.89 | | SA 2320 1.71 | | SU 1752 3.10 | | MO 1623 2.86 | | 1211 1.19 | | TH 1721 3.31 | | 1213 1.45 | SA 1741 | 3.12 | |
| ○ 2357 1.26 | | ○ 2358 1.45 | | ○ 2330 1.29 | | 1817 3.07 | | | | 1803 2.87 | | | | | |
| 7 0524 2.27 | 22 | 0333 1.89 | | 7 0026 0.94 | 22 | 0455 2.12 | | 7 0057 0.82 | 22 | 0014 0.73 | | 7 0047 0.89 | 22 | 0033 0.65 | |
| 1138 0.96 | | 1010 1.32 | | 0605 2.37 | | 1042 1.15 | | 0637 2.62 | | 0602 2.79 | | 0643 2.72 | 0643 | 3.12 | |
| SA 1818 3.11 | | SU 1702 2.72 | | MO 1205 1.02 | | TU 1712 3.13 | | 1242 1.16 | | FR 1207 0.97 | | 1245 1.42 | SU 1303 | 1.20 | |
| ○ 2358 1.45 | | 1825 3.19 | | 1825 3.19 | | | | 1842 3.07 | | 1800 3.39 | | 1824 2.85 | 1823 | 3.08 | |
| 8 0048 1.05 | 23 | 0504 2.09 | | 8 0102 0.83 | 23 | 0005 1.02 | | 8 0121 0.80 | 23 | 0049 0.56 | | 8 0106 0.83 | 23 | 0109 0.54 | |
| 0615 2.39 | | 1109 1.08 | | 0634 2.52 | | 0536 2.42 | | 0702 2.75 | | 0642 3.07 | | 0708 2.87 | 0725 | 3.33 | |
| SU 1227 0.85 | | MO 1744 3.03 | | TU 1243 0.95 | | WE 1134 0.92 | | 1307 1.15 | | SA 1255 0.90 | | 1314 1.40 | MO 1353 | 1.17 | |
| 1854 3.25 | | 1852 3.22 | | 1852 3.22 | | 1751 3.37 | | 1902 3.04 | | 1838 3.41 | | 1842 2.83 | 1903 | 3.01 | |
| 9 0128 0.92 | 24 | 0031 1.19 | | 9 0131 0.80 | 24 | 0039 0.79 | | 9 0139 0.79 | 24 | 0121 0.44 | | 9 0125 0.77 | 24 | 0142 0.49 | |
| 0650 2.49 | | 0544 2.34 | | 0700 2.63 | | 0611 2.72 | | 0726 2.85 | | 0722 3.29 | | 0733 3.02 | 0805 | 3.49 | |
| MO 1306 0.79 | | TU 1155 0.83 | | WE 1311 0.92 | | TH 1219 0.72 | | 1328 1.16 | | SU 1342 0.90 | | 1342 1.38 | TU 1440 | 1.18 | |
| 1923 3.30 | | 1820 3.33 | | 1917 3.22 | | 1827 3.56 | | 1920 3.00 | | 1915 3.34 | | 1859 2.81 | 1943 | 2.91 | |
| 10 0201 0.88 | 25 | 0104 0.95 | | 10 0156 0.82 | 25 | 0111 0.59 | | 10 0155 0.78 | 25 | 0151 0.37 | | 10 0141 0.70 | 25 | 0213 0.49 | |
| 0718 2.57 | | 0619 2.62 | | 0724 2.72 | | 0647 3.00 | | 0749 2.94 | | 0803 3.44 | | 0800 3.17 | 0845 | 3.56 | |
| TU 1335 0.77 | | WE 1235 0.59 | | 1331 0.93 | | FR 1300 0.59 | | 1349 1.18 | | MO 1429 0.97 | | 1410 1.37 | WE 1526 | 1.22 | |
| 1949 3.31 | | 1855 3.59 | | 1939 3.19 | | 1902 3.67 | | 1935 2.94 | | 1953 3.20 | | 1919 2.80 | 2023 | 2.78 | |
| 11 0229 0.90 | 26 | 0135 0.74 | | 11 0215 0.85 | 26 | 0142 0.45 | | 11 0207 0.76 | 26 | 0222 0.38 | | 11 0158 0.63 | 26 | 0242 0.55 | |
| 0744 2.63 | | 0655 2.89 | | 0746 2.78 | | 0725 3.24 | | 0813 3.03 | | 0846 3.50 | | 0829 3.30 | 0925 | 3.55 | |
| WE 1355 0.78 | | TH 1313 0.39 | | 1347 0.94 | | SA 1341 0.55 | | 1410 1.21 | | TU 1520 1.09 | | 1442 1.36 | TH 1612 | 1.30 | |
| 2013 3.29 | | 1930 3.79 | | 1959 3.14 | | 1939 3.67 | | 1950 2.89 | | 2032 2.97 | | 1947 2.78 | 2103 | 2.63 | |
| 12 0251 0.95 | 27 | 0208 0.57 | | 12 0230 0.88 | 27 | 0213 0.36 | | 12 0219 0.73 | 27 | 0253 0.47 | | 12 0219 0.57 | 27 | 0312 0.66 | |
| 0807 2.66 | | 0734 3.12 | | 0808 2.83 | | 0807 3.39 | | 0841 3.09 | | 0931 3.47 | | 0904 3.39 | 1005 | 3.46 | |
| TH 1409 0.80 | | FR 1351 0.29 | | 1402 0.98 | | SU 1424 0.62 | | 1434 1.27 | | WE 1615 1.25 | | 1521 1.38 | FR 1700 | 1.40 | |
| 2036 3.24 | | 2007 3.89 | | 2017 3.07 | | 2016 3.55 | | 2009 2.81 | | 2113 2.70 | | 2021 2.72 | 2143 | 2.46 | |
| 13 0309 1.02 | 28 | 0240 0.47 | | 13 0241 0.90 | 28 | 0243 0.36 | | 13 0233 0.71 | 28 | 0324 0.63 | | 13 0247 0.57 | 28 | 0339 0.82 | |
| 0829 2.68 | | 0817 3.27 | | 0830 2.86 | | 0851 3.43 | | 0912 3.13 | | 1018 3.35 | | 0943 3.43 | 1045 | 3.31 | |
| FR 1422 0.83 | | SA 1432 0.31 | | 1420 1.03 | | MO 1514 0.81 | | 1504 1.36 | | TH 1716 1.41 | | 1609 1.43 | SA 1753 | 1.52 | |
| 2058 3.17 | | 2046 3.84 | | 2032 2.99 | | ● 2055 3.31 | | 2034 2.71 | | 2156 2.41 | | 2101 2.62 | 2223 | 2.29 | |
| 14 0324 1.07 | 29 | 0314 0.45 | | 14 0251 0.91 | 29 | 0315 0.46 | | 14 0253 0.73 | 29 | 0356 0.85 | | 14 0322 0.63 | 29 | 0408 1.01 | |
| 0852 2.68 | | 0902 3.31 | | 0855 2.88 | | 0938 3.37 | | 0951 3.12 | | 1108 3.17 | | 1029 3.41 | 1127 | 3.13 | |
| SA 1440 0.89 | | SU 1517 0.49 | | MO 1440 1.12 | | TU 1611 1.07 | | 1545 1.48 | | FR 1829 1.53 | | 1709 1.49 | SU 1854 | 1.61 | |
| ○ 2118 3.08 | | ● 2125 3.64 | | ○ 2048 2.88 | | 2135 2.96 | | 2105 2.55 | | 2246 2.13 | | 2150 2.46 | 2310 | 2.13 | |
| 15 0337 1.12 | 30 | 0350 0.54 | | 15 0301 0.91 | 30 | 0349 0.64 | | 15 0320 0.81 | 30 | 0433 1.10 | | 15 0405 0.77 | 30 | 0439 1.22 | |
| 0917 2.65 | | 0950 3.23 | | 0925 2.87 | | 1028 3.21 | | 1036 3.06 | | 1205 2.97 | | 1120 3.34 | 1211 | 2.93 | |
| SU 1500 0.99 | | MO 1609 0.79 | | TU 1503 1.25 | | WE 1719 1.35 | | 1704 1.62 | | SA 1956 1.55 | | 1817 1.53 | MO 2006 | 1.64 | |
| 2137 2.95 | | 2206 3.31 | | 2104 2.75 | | 2218 2.57 | | 2143 2.35 | | 2354 1.90 | | 2252 2.27 | | | |
| | | | | 31 | 0426 0.89 | | | | | | | 31 | 0010 1.98 | | |
| | | | | | 1126 3.00 | | | | | | | | 0518 1.46 | | |
| | | | | | TH 1844 1.54 | | | | | | | | TU 1306 2.76 | | |
| | | | | | 2309 2.18 | | | | | | | | 2121 1.59 | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

2019

LAT 18° 31' S LONG 146° 23' E

Times and Heights of High and Low Waters

| JANUARY | | | | | | | | FEBRUARY | | | | | | | | MARCH | | | | | | | | APRIL | | | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|----------|------|---------|------|--------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | |
| 1 0030 | 0.79 | 16 0609 | 2.67 | 1 0128 | 0.85 | 16 0033 | 0.81 | 1 0046 | 1.09 | 16 0603 | 3.18 | 1 0116 | 1.13 | 16 0041 | 0.82 | 2 0136 | 1.08 | 17 0123 | 0.69 | 2 0136 | 1.08 | 17 0123 | 0.69 | 3 0156 | 1.05 | 18 0203 | 0.67 | | | | | | |
| 0654 | 2.96 | 16 1207 | 1.65 | 0803 | 3.29 | 16 0702 | 3.40 | 0717 | 3.22 | 16 1239 | 1.36 | 0735 | 3.23 | 16 0656 | 3.63 | 2 0756 | 3.24 | 17 0733 | 3.71 | WE 1351 | 1.32 | TH 1249 | 1.49 | TU 1419 | 1.11 | WE 1358 | 0.64 | WE 1434 | 1.09 | TH 1430 | 0.58 | | |
| TU 1304 | 1.34 | WE 1733 | 2.59 | FR 1430 | 1.30 | SA 1325 | 1.27 | 1347 | 1.25 | SA 1800 | 2.57 | 1403 | 1.12 | TU 1325 | 0.77 | 2000 | 2.85 | 1916 | 3.11 | 1828 | 2.78 | 1847 | 2.80 | 1906 | 2.72 | 1812 | 2.70 | 1938 | 2.76 | 1916 | 3.11 | | |
| 1828 | 2.78 | | | 1939 | 2.62 | 1847 | 2.80 | 1906 | 2.58 | | | | | | | 1 0744 | 3.29 | 17 0643 | 3.48 | 2 0136 | 1.08 | 17 0123 | 0.69 | 3 0156 | 1.05 | 18 0203 | 0.67 | | | | | | |
| 2 0104 | 0.72 | 17 0018 | 0.92 | 0832 | 3.33 | 17 0741 | 3.69 | 1413 | 1.22 | SU 1313 | 1.12 | 0756 | 3.24 | 17 0733 | 3.71 | 4 0217 | 1.04 | 19 0244 | 0.76 | 2 0756 | 3.24 | 17 0733 | 3.71 | 3 0156 | 1.05 | 18 0203 | 0.67 | | | | | | |
| 0734 | 3.13 | 17 0641 | 2.97 | SA 1458 | 1.31 | SU 1403 | 1.06 | 1413 | 1.22 | MO 1347 | 0.91 | 1434 | 1.22 | MO 1347 | 0.91 | 4 0217 | 1.04 | 19 0244 | 0.76 | WE 1351 | 1.32 | TH 1249 | 1.49 | WE 1434 | 1.09 | TH 1430 | 0.58 | | | | | | |
| WE 1351 | 1.32 | TH 1249 | 1.49 | 2008 | 2.63 | 1931 | 2.99 | 1933 | 2.66 | 1843 | 2.83 | 1434 | 1.09 | 1924 | 3.08 | 2022 | 2.93 | 2037 | 3.41 | 1906 | 2.72 | | | 1938 | 2.76 | 1916 | 3.11 | | | | | | |
| 1906 | 2.72 | | | | | | | | | | | | | | | 3 0815 | 3.22 | 18 0810 | 3.67 | 5 0240 | 1.07 | 20 0326 | 0.96 | 5 0853 | 3.13 | 20 0923 | 3.26 | 6 0305 | 1.14 | 21 0412 | 1.24 | | |
| TH 1431 | 1.32 | FR 1330 | 1.32 | 2034 | 2.63 | 2015 | 3.14 | 1509 | 1.25 | WE 1455 | 0.68 | 1509 | 1.25 | WE 1455 | 0.68 | 6 0914 | 3.05 | 21 1000 | 2.93 | WE 1434 | 1.09 | TH 1430 | 0.58 | 2113 | 3.03 | 2203 | 3.32 | | | | | | |
| 1941 | 2.65 | 1853 | 2.81 | | | | | 2042 | 2.81 | 2048 | 3.37 | | | | | 7 0938 | 2.92 | 22 1039 | 2.56 | 7 0334 | 1.26 | 22 0510 | 1.55 | 7 0938 | 2.92 | 22 1039 | 2.56 | 8 0407 | 1.43 | 23 0701 | 1.79 | | |
| 4 0200 | 0.69 | 19 0124 | 0.49 | 0922 | 3.30 | 1902 | 4.02 | 1519 | 0.84 | 2059 | 2.62 | 2059 | 3.21 | 1623 | 1.27 | 2131 | 3.37 | 8 1005 | 2.75 | 23 1126 | 2.20 | 8 1005 | 2.75 | 23 1126 | 2.20 | 9 0449 | 1.64 | 24 0103 | 2.72 | | | | |
| 0842 | 3.27 | 19 0756 | 3.55 | MO 1543 | 1.39 | TU 1519 | 0.84 | | | | | | | | | 9 1015 | 2.97 | 24 1113 | 2.87 | 9 1038 | 2.53 | 24 0931 | 1.75 | 9 1038 | 2.53 | 24 0931 | 1.75 | 10 0558 | 1.86 | 25 0327 | 2.67 | | |
| FR 1507 | 1.35 | SA 1411 | 1.17 | 2059 | 2.62 | | | | | | | | | | | 10 1040 | 2.81 | 25 0637 | 1.75 | 10 1122 | 2.27 | 25 1058 | 1.55 | 10 1122 | 2.27 | 25 1058 | 1.55 | WE 1743 | 1.41 | TH 1618 | 1.90 | 2124 | 1.69 |
| 2013 | 2.58 | 1936 | 2.91 | | | | | | | | | | | | | 10 1651 | 1.42 | 25 1202 | 2.45 | WE 1743 | 1.41 | TH 1618 | 1.90 | WE 1743 | 1.41 | TH 1618 | 1.90 | 2124 | 1.69 | | | | |
| 5 0224 | 0.71 | 20 0202 | 0.33 | 0946 | 3.23 | 0943 | 3.99 | 1559 | 0.85 | | | | | | | 11 0451 | 1.59 | 26 0139 | 2.60 | 11 0922 | 1.90 | 26 0454 | 2.79 | 11 0922 | 1.90 | 26 0454 | 2.79 | 12 0328 | 2.74 | 27 0536 | 2.89 | | |
| 0914 | 3.27 | 20 0837 | 3.77 | TU 1603 | 1.44 | WE 1559 | 0.85 | 2124 | 2.58 | 2144 | 3.18 | | | | | 11 1109 | 2.62 | 26 0935 | 1.84 | 12 1058 | 1.67 | 27 1220 | 1.24 | 11 1109 | 2.62 | 26 0935 | 1.84 | 12 1058 | 1.67 | 2152 | 2.04 | SA 1803 | 2.27 |
| SA 1540 | 1.40 | SU 1453 | 1.06 | | | | | | | | | | | | | 12 1146 | 2.40 | 27 1644 | 2.07 | 12 1449 | 1.07 | 2152 | 2.04 | 12 1449 | 1.07 | 2152 | 2.04 | 2152 | 1.46 | ● 2345 | 1.49 | | |
| 2043 | 2.51 | 2021 | 2.97 | | | | | | | | | | | | | 13 0144 | 2.40 | 28 0541 | 2.90 | 13 0447 | 2.98 | 28 0607 | 2.97 | 13 0447 | 2.98 | 28 0607 | 2.97 | 14 0536 | 3.24 | 29 0019 | 1.39 | | |
| 6 0249 | 0.76 | 21 0243 | 0.23 | 1010 | 3.15 | 1024 | 3.81 | 1641 | 0.95 | 2150 | 2.53 | 2232 | 3.05 | | | 13 1106 | 1.90 | 28 0646 | 3.10 | 13 1146 | 1.42 | 28 1247 | 1.15 | 13 1146 | 1.42 | 28 1247 | 1.15 | 14 0536 | 3.24 | 29 0633 | 3.02 | | |
| 0944 | 3.22 | 21 0920 | 3.89 | WE 1623 | 1.50 | TH 1641 | 0.95 | | | | | | | | 14 1205 | 1.71 | 29 1253 | 1.26 | 14 1221 | 1.18 | 29 0633 | 3.02 | 14 1221 | 1.18 | 29 0633 | 3.02 | 15 0618 | 3.47 | 30 0046 | 1.32 | | | |
| SU 1611 | 1.47 | MO 1538 | 1.01 | 2112 | 2.42 | 2107 | 2.97 | | | | | | | | 15 1203 | 1.61 | 30 0647 | 3.15 | 15 1253 | 0.96 | 30 0655 | 3.05 | 15 1253 | 0.96 | 30 0655 | 3.05 | MO 1836 | 2.85 | TU 1328 | 1.05 | 1915 | 2.72 | |
| 2112 | 2.42 | | | | | | | | | | | | | | 15 1710 | 2.32 | 30 1321 | 1.17 | 15 2304 | 1.19 | 30 1853 | 2.54 | | | | | | | | | | | |
| 7 0314 | 0.83 | 22 0325 | 0.25 | 1033 | 3.04 | 1107 | 3.51 | 1647 | 1.57 | 2221 | 2.45 | 2324 | 2.85 | | | 16 0413 | 2.56 | 29 0619 | 3.05 | 16 1221 | 1.18 | 29 0633 | 3.02 | 16 1221 | 1.18 | 29 0633 | 3.02 | 17 0558 | 3.47 | 30 0046 | 1.32 | | |
| 1013 | 3.13 | 22 1005 | 3.90 | 1033 | 3.04 | 1107 | 3.51 | 1647 | 1.57 | 2221 | 2.45 | 2324 | 2.85 | | | 16 1651 | 1.42 | 29 1253 | 1.26 | 16 2304 | 1.19 | 29 1853 | 2.54 | 16 2304 | 1.19 | 29 1853 | 2.54 | 17 0618 | 3.47 | 30 0046 | 1.32 | | |
| MO 1644 | 1.56 | TU 1625 | 1.03 | | | | | | | | | | | | 17 1040 | 2.81 | 25 0637 | 1.75 | 17 1449 | 1.07 | 25 1058 | 1.55 | 17 1449 | 1.07 | 25 1058 | 1.55 | WE 1743 | 1.41 | TH 1618 | 1.90 | 2124 | 1.69 | |
| 2141 | 2.33 | 2156 | 2.90 | | | | | | | | | | | | 17 1651 | 1.42 | 25 1202 | 2.45 | 17 2304 | 1.19 | 25 1853 | 2.54 | 17 2304 | 1.19 | 25 1853 | 2.54 | 18 0618 | 3.47 | 30 0046 | 1.32 | | | |
| 8 0339 | 0.94 | 23 0409 | 0.39 | 1058 | 2.91 | 1153 | 3.13 | 1716 | 1.63 | 2256 | 2.35 | 2348 | 2.75 | | | 18 0325 | 1.05 | 23 0421 | 0.98 | 18 1005 | 2.75 | 23 1126 | 2.20 | 18 1005 | 2.75 | 23 1126 | 2.20 | 19 0449 | 1.64 | 24 0103 | 2.72 | | |
| 1043 | 3.02 | 23 1051 | 3.77 | 1716 | 1.63 | WE 1716 | 1.12 | 2211 | 2.23 | 2249 | 2.75 | | | | 18 1602 | 1.32 | 23 1644 | 0.98 | 18 2302 | 2.89 | 23 1126 | 2.20 | 18 2302 | 2.89 | 19 0449 | 1.64 | 24 0103 | 2.72 | | | | | |
| TU 1720 | 1.65 | WE 1716 | 1.12 | | | | | | | | | | | | 19 2055 | 2.77 | 23 2055 | 3.04 | 19 2305 | 1.25 | 23 1828 | 2.44 | 19 2305 | 1.25 | 23 1828 | 2.44 | 20 0558 | 3.47 | 31 0046 | 1.32 | | | |
| 2211 | 2.23 | 2249 | 2.75 | | | | | | | | | | | | 19 2305 | 1.25 | 23 2342 | 1.42 | 19 2345 | 1.46 | 23 2345 | 1.46 | 23 2345 | 1.46 | 23 2345 | 1.46 | 21 2255 | 1.60 | 31 0052 | 1.20 | | | |
| 9 0406 | 1.07 | 24 0457 | 0.65 | 1127 | 2.76 | 0639 | 1.57 | 1715 | 1.63 | 2342 | 2.24 | 1949 | 1.47 | | | 20 0350 | 1.18 | 24 0511 | 1.37 | 20 0449 | 1.64 | 24 0931 | 1.75 | 20 0449 | 1.64 | 24 0931 | 1.75 | 21 2255 | 1.60 | 31 0052 | 1.20 | | |
| 1115 | 2.89 | 24 1140 | 3.55 | 1127 | 2.76 | 0639 | 1.57 | 1715 | 1.63 | 2342 | 2.24 | 1949 | 1.47 | | | 20 1015 | 2.97 | 24 1113 | 2.87 | 20 1652 | 1.25 | 24 1247 | 1.91 | 20 1652 | 1.25 | 24 1247 | 1.91 | 21 2356 | 2.76 | 31 0447 | 2.98 | | |
| WE 1809 | 1.73 | TH 1815 | 1.24 | | | | | | | | | | | | 20 1625 | 1.36 | 24 1725 | 1.21 | 20 2356 | 2.76 | 24 1831 | 1.60 | 24 1831 | 1.60 | 24 1831 | 1.60 | 25 0449 | 1.64 | 26 0103 | 2.72 | | | |
| 1809 | 1.73 | TH 1815 | 1.24 | | | | | | | | | | | | 21 0449 | 2.97 | 26 0139 | 2.60 | 21 0922 | 1.90 | 26 1146 | 1.37 | 21 0922 | 1.90 | 26 1146 | 1.37 | 22 2255 | 1.60 | 31 0052 | 1.20 | | | |
| 2247 | 2.11 | 2348 | 2.56 | | | | | | | | | | | | 21 1109 | 2.62 | 26 0935 | 1.84 | 21 1247 | 2.04 | 26 1730 | 2.09 | 21 1247 | 2.04 | 26 1730 | 2.09 | 22 2255 | 1.60 | 31 0052 | 1.20 | | | |
| 13 0314 | 1.92 | 28 0504 | 2.53 | 1106 | 1.90 | 0646 | 3.10 | 1609 | 2.31 | 1835 | 2.48 | | | | 22 1122 | 1.70 | 26 1217 | 1.41 | 22 1449 | 1.07 | 26 1730 | 2.09 | 22 1449 | 1.07 | 26 1730 | 2.09 | 23 2356 | 1.60 | 31 0052 | 1.20 | | | |
| 0719 | 1.82 | 28 1105 | 1.65 | 1106 | 1.90 | 0646 | 3.10 | 1609 | 2.31 | 1835 | 2.48 | | | | 23 1106 | 2.18 | 26 1752 | 2.24 | 23 2305 | | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

2019

LAT 18° 31' S LONG 146° 23' E

Times and Heights of High and Low Waters

MAY

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 1 | 0109 | 1.26 | 16 | 0114 | 0.97 |
| | 0716 | 3.05 | | 0709 | 3.35 |
| WE | 1344 | 1.01 | TH | 1337 | 0.59 |
| | 1938 | 2.84 | | 1951 | 3.24 |

JUNE

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 1 | 0138 | 1.33 | 16 | 0252 | 1.24 |
| | 0718 | 2.82 | | 0807 | 2.68 |
| SA | 1347 | 0.73 | SU | 1426 | 0.61 |
| | 2011 | 3.12 | | 2112 | 3.30 |

JULY

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 1 | 0205 | 1.28 | 16 | 0336 | 1.23 |
| | 0726 | 2.66 | | 0838 | 2.41 |
| MO | 1355 | 0.50 | TU | 1447 | 0.68 |
| | 2034 | 3.37 | | 2138 | 3.22 |

AUGUST

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 1 | 0319 | 0.92 | 16 | 0359 | 1.23 |
| | 0846 | 2.76 | | 0920 | 2.40 |
| TH | 1505 | 0.21 | FR | 1517 | 0.81 |
| | 2143 | 3.73 | | 2203 | 3.00 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 2 | 0132 | 1.22 | 17 | 0158 | 0.99 |
| | 0735 | 3.05 | | 0746 | 3.25 |
| TH | 1359 | 0.95 | FR | 1408 | 0.55 |
| | 2001 | 2.97 | | 2032 | 3.35 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 3 | 0246 | 1.26 | 18 | 0421 | 1.07 |
| | 0819 | 2.76 | | 0822 | 3.08 |
| MO | 1443 | 0.58 | TU | 1528 | 0.79 |
| | 2124 | 3.36 | | 2229 | 3.15 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 4 | 0328 | 1.28 | 19 | 0515 | 1.49 |
| | 0857 | 2.67 | | 1000 | 2.21 |
| TU | 1519 | 0.58 | WE | 1600 | 0.93 |
| | 2206 | 3.38 | | 2308 | 3.01 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 5 | 0416 | 1.35 | 20 | 0617 | 1.57 |
| | 0942 | 2.53 | | 1042 | 2.05 |
| WE | 1601 | 0.66 | TH | 1633 | 1.09 |
| | 2255 | 3.34 | | 2348 | 2.85 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 6 | 0519 | 1.43 | 21 | 0735 | 1.61 |
| | 1035 | 2.35 | | 1132 | 1.91 |
| TH | 1650 | 0.81 | FR | 1708 | 1.27 |
| | 2351 | 3.23 | | | |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 7 | 0645 | 1.49 | 22 | 0037 | 2.68 |
| | 1141 | 2.17 | | 0858 | 1.58 |
| FR | 1750 | 1.00 | SA | 1243 | 1.81 |
| | | | | 1751 | 1.45 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 8 | 0057 | 3.11 | 23 | 0139 | 2.55 |
| | 0824 | 1.43 | | 1004 | 1.49 |
| SA | 1311 | 2.07 | SU | 1436 | 1.80 |
| | 1908 | 1.19 | | 1857 | 1.63 |

| | Time | m | | Time | m |
|----------|------|------|-----------|------|------|
| 9 | 0214 | 3.03 | 24 | 0300 | 2.49 |
| | 0943 | 1.29 | | 1050 | 1.38 |
| SU | 1457 | 2.12 | MO | 1618 | 1.93 |
| | 2043 | 1.31 | | 2057 | 1.73 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 10 | 0330 | 3.02 | 25 | 0408 | 2.48 |
| | 1043 | 1.11 | | 1124 | 1.27 |
| MO | 1624 | 2.30 | TU | 1717 | 2.11 |
| | 2214 | 1.32 | | 2238 | 1.73 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 11 | 0434 | 3.03 | 26 | 0453 | 2.49 |
| | 1131 | 0.94 | | 1150 | 1.16 |
| TU | 1730 | 2.55 | WE | 1755 | 2.30 |
| | 2328 | 1.28 | | 2337 | 1.66 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 12 | 0527 | 3.03 | 27 | 0524 | 2.51 |
| | 1212 | 0.80 | | 1212 | 1.05 |
| WE | 1823 | 2.80 | TH | 1824 | 2.50 |
| | | | | | |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 13 | 0028 | 1.23 | 28 | 0019 | 1.58 |
| | 0611 | 2.99 | | 0552 | 2.53 |
| TH | 1247 | 0.69 | FR | 1233 | 0.93 |
| | 1909 | 3.01 | | 1852 | 2.72 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 14 | 0120 | 1.20 | 29 | 0054 | 1.49 |
| | 0652 | 2.92 | | 0619 | 2.57 |
| FR | 1322 | 0.62 | SA | 1256 | 0.79 |
| | 1952 | 3.17 | | 1923 | 2.95 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 15 | 0207 | 1.20 | 30 | 0128 | 1.38 |
| | 0730 | 2.82 | | 0651 | 2.62 |
| SA | 1354 | 0.59 | SU | 1323 | 0.63 |
| | 2033 | 3.27 | | 1956 | 3.17 |

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 15 | 0301 | 1.21 | 30 | 0200 | 1.17 |
| | 0803 | 2.47 | | 0716 | 2.60 |
| MO | 1418 | 0.65 | TU | 1342 | 0.39 |
| | 2107 | 3.26 | | 2020 | 3.49 |

| | Time | m | | Time | m |
|-----------|------|------|--|------|---|
| 31 | 0238 | 1.02 | | | |
| | 0800 | 2.70 | | | |
| WE | 1422 | 0.26 | | | |
| | 2100 | 3.66 | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

LAT 18° 31' S LONG 146° 23' E

Times and Heights of High and Low Waters

2019

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

Last Quarter

AUSTRALIA, EAST COAST – CLUMP POINT (STORM SURGE)

2019

LAT 17° 50' S LONG 146° 06' E

Times and Heights of High and Low Waters

Time Zone -1000

JANUARY

FEBRUARY

MARCH

APRIL

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – CLUMP POINT (STORM SURGE)

2019

LAT 17° 50' S LONG 146° 06' E

Times and Heights of High and Low Waters

Time Zone -1000

| MAY | | JUNE | | JULY | | AUGUST | |
|---------|------|---------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0058 | 1.19 | 16 0106 | 0.90 | 1 0129 | 1.26 | 16 0236 | 1.15 |
| 0711 | 2.82 | 16 0709 | 3.10 | 0718 | 2.57 | 16 0809 | 2.48 |
| WE 1331 | 0.97 | TH 1330 | 0.54 | SA 1338 | 0.69 | SU 1421 | 0.52 |
| 1934 | 2.61 | 1948 | 3.01 | 2008 | 2.85 | 2106 | 3.05 |
| 2 0124 | 1.16 | 17 0149 | 0.91 | 2 0204 | 1.22 | 17 0319 | 1.21 |
| 0732 | 2.81 | 17 0747 | 3.01 | 0748 | 2.55 | 0846 | 2.34 |
| TH 1349 | 0.90 | FR 1402 | 0.48 | SU 1406 | 0.60 | MO 1454 | 0.58 |
| 1959 | 2.72 | 2028 | 3.11 | 2041 | 2.98 | 2144 | 3.01 |
| 3 0149 | 1.14 | 18 0232 | 0.99 | 3 0242 | 1.21 | 18 0402 | 1.29 |
| 0753 | 2.78 | 18 0823 | 2.85 | 0822 | 2.49 | 0924 | 2.19 |
| FR 1408 | 0.84 | SA 1435 | 0.50 | MO 1438 | 0.56 | TU 1528 | 0.69 |
| 2025 | 2.82 | 2108 | 3.12 | 2120 | 3.06 | 2222 | 2.91 |
| 4 0217 | 1.15 | 19 0315 | 1.12 | 4 0325 | 1.24 | 19 0447 | 1.38 |
| 0816 | 2.74 | 19 0900 | 2.63 | 0900 | 2.39 | 1002 | 2.03 |
| SA 1431 | 0.78 | SU 1509 | 0.58 | TU 1514 | 0.57 | WE 1601 | 0.83 |
| 2055 | 2.89 | 2150 | 3.06 | 2203 | 3.07 | 2301 | 2.78 |
| 5 0250 | 1.19 | 20 0401 | 1.29 | 5 0414 | 1.30 | 20 0540 | 1.48 |
| 0843 | 2.66 | 20 0937 | 2.39 | 0944 | 2.26 | 1039 | 1.89 |
| SU 1456 | 0.75 | MO 1543 | 0.72 | WE 1555 | 0.64 | TH 1632 | 0.98 |
| 2128 | 2.93 | 2232 | 2.93 | 2251 | 3.02 | 2342 | 2.63 |
| 6 0326 | 1.27 | 21 0453 | 1.46 | 6 0513 | 1.38 | 21 0705 | 1.54 |
| 0912 | 2.53 | 21 1016 | 2.14 | 1036 | 2.09 | 1122 | 1.76 |
| MO 1526 | 0.77 | TU 1618 | 0.90 | 1645 | 0.78 | FR 1703 | 1.15 |
| 2207 | 2.91 | 2320 | 2.77 | 2350 | 2.93 | | |
| 7 0408 | 1.39 | 22 0609 | 1.60 | 7 0636 | 1.43 | 22 0030 | 2.48 |
| 0946 | 2.36 | 22 1058 | 1.91 | 1142 | 1.94 | 0853 | 1.52 |
| TU 1559 | 0.85 | WE 1654 | 1.10 | 1746 | 0.95 | SA 1221 | 1.67 |
| 2252 | 2.83 | | | | | 1740 | 1.32 |
| 8 0501 | 1.54 | 23 0019 | 2.60 | 8 0100 | 2.84 | 23 0134 | 2.36 |
| 1027 | 2.15 | 23 0848 | 1.61 | 0826 | 1.38 | 0959 | 1.44 |
| WE 1641 | 0.99 | TH 1154 | 1.72 | SA 1313 | 1.85 | SU 1410 | 1.63 |
| 2351 | 2.73 | 1732 | 1.30 | 1906 | 1.12 | 1835 | 1.48 |
| 9 0626 | 1.67 | 24 0152 | 2.48 | 9 0221 | 2.79 | 24 0259 | 2.30 |
| 1123 | 1.94 | 24 1015 | 1.50 | 0944 | 1.23 | 1044 | 1.34 |
| TH 1738 | 1.16 | FR 1403 | 1.63 | SU 1459 | 1.92 | MO 1611 | 1.74 |
| | | | | 2039 | 1.22 | 2026 | 1.60 |
| 10 0118 | 2.65 | 25 0321 | 2.45 | 10 0333 | 2.79 | 25 0402 | 2.29 |
| 0922 | 1.59 | 25 1103 | 1.38 | 1039 | 1.06 | 1115 | 1.24 |
| FR 1313 | 1.78 | SA 1609 | 1.72 | 1624 | 2.10 | TU 1713 | 1.91 |
| 1916 | 1.31 | 2050 | 1.57 | 2205 | 1.23 | 2213 | 1.62 |
| 11 0302 | 2.70 | 26 0422 | 2.48 | 11 0434 | 2.80 | 26 0444 | 2.30 |
| 1032 | 1.39 | 26 1132 | 1.27 | 1122 | 0.90 | 1139 | 1.13 |
| SA 1535 | 1.87 | SU 1710 | 1.88 | 1727 | 2.34 | WE 1751 | 2.09 |
| 2112 | 1.30 | 2216 | 1.55 | 2317 | 1.20 | 2315 | 1.57 |
| 12 0413 | 2.83 | 27 0506 | 2.52 | 12 0525 | 2.80 | 27 0518 | 2.31 |
| 1115 | 1.18 | 27 1156 | 1.18 | 1202 | 0.75 | 1200 | 1.02 |
| SU 1649 | 2.10 | MO 1748 | 2.05 | WE 1819 | 2.58 | TH 1821 | 2.28 |
| 2230 | 1.19 | 2312 | 1.49 | | | | |
| 13 0506 | 2.97 | 28 0539 | 2.55 | 13 0016 | 1.15 | 28 0000 | 1.50 |
| 1149 | 0.98 | 28 1218 | 1.09 | 0610 | 2.77 | 0547 | 2.32 |
| MO 1740 | 2.36 | TU 1817 | 2.22 | 1239 | 0.63 | 1219 | 0.89 |
| 2330 | 1.06 | 2353 | 1.42 | 1904 | 2.78 | 1848 | 2.48 |
| 14 0550 | 3.07 | 29 0606 | 2.57 | 14 0106 | 1.12 | 29 0038 | 1.41 |
| 1223 | 0.80 | 29 1238 | 1.00 | 0652 | 2.70 | 0618 | 2.35 |
| TU 1824 | 2.61 | WE 1845 | 2.38 | 1314 | 0.54 | SA 1243 | 0.74 |
| | | | | 1947 | 2.94 | 1918 | 2.69 |
| 15 0021 | 0.95 | 30 0027 | 1.36 | 15 0153 | 1.12 | 30 0116 | 1.31 |
| 0631 | 3.12 | 30 0629 | 2.58 | 0731 | 2.60 | 0652 | 2.37 |
| WE 1256 | 0.64 | TH 1256 | 0.91 | 1348 | 0.51 | SU 1313 | 0.60 |
| 1906 | 2.84 | 1911 | 2.54 | 2027 | 3.03 | 1951 | 2.89 |
| 31 0058 | 1.31 | | | | | | |
| 0653 | 2.58 | | | | | | |
| FR 1315 | 0.80 | | | | | | |
| 1937 | 2.70 | | | | | | |

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Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – CLUMP POINT (STORM SURGE)

2019

LAT 17° 50' S LONG 146° 06' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0410 | 0.64 | 16 0343 | 1.05 | 1 0416 | 0.59 | 16 0326 | 0.86 | 1 0510 | 0.97 | 16 0406 | 0.87 | 1 0527 | 1.15 | 16 0502 | 0.88 |
| 1009 | 2.65 | 0945 | 2.29 | 1039 | 2.71 | 0957 | 2.47 | 1240 | 2.49 | 1122 | 2.57 | 1327 | 2.50 | 1221 | 2.80 |
| SU 1613 | 0.46 | MO 1536 | 1.03 | TU 1645 | 1.00 | WE 1550 | 1.29 | FR 2110 | 1.48 | SA 1750 | 1.60 | SU 2157 | 1.40 | MO 1932 | 1.46 |
| 2239 | 3.11 | 2154 | 2.47 | 2248 | 2.52 | 2138 | 2.23 | 2237 | 1.79 | | | | | | |
| 2 0454 | 0.74 | 17 0405 | 1.09 | 2 0500 | 0.79 | 17 0351 | 0.92 | 2 0014 | 1.63 | 17 0454 | 1.04 | 2 0123 | 1.56 | 17 0013 | 1.80 |
| 1100 | 2.51 | 1016 | 2.22 | 1137 | 2.51 | 1037 | 2.39 | 0616 | 1.22 | 1242 | 2.49 | 0636 | 1.36 | 0612 | 1.08 |
| MO 1702 | 0.80 | TU 1604 | 1.20 | WE 1751 | 1.36 | TH 1630 | 1.46 | SA 1450 | 2.45 | SU 2122 | 1.54 | MO 1458 | 2.45 | TU 1337 | 2.74 |
| 2323 | 2.78 | 2215 | 2.31 | 2336 | 2.12 | 2203 | 2.04 | 2242 | 1.30 | 2224 | 1.34 | 2251 | 1.28 | 2113 | 1.33 |
| 3 0543 | 0.89 | 18 0431 | 1.15 | 3 0553 | 1.02 | 18 0421 | 1.03 | 3 0327 | 1.57 | 18 0007 | 1.61 | 3 0359 | 1.64 | 18 0204 | 1.79 |
| 1200 | 2.34 | 1055 | 2.13 | 1310 | 2.34 | 1127 | 2.29 | 0827 | 1.35 | 0619 | 1.21 | 0834 | 1.48 | 0746 | 1.23 |
| TU 1802 | 1.18 | WE 1637 | 1.40 | TH 2058 | 1.53 | FR 1727 | 1.65 | SU 1610 | 2.52 | MO 1433 | 2.53 | TU 1604 | 2.46 | WE 1454 | 2.73 |
| 2238 | 2.14 | 2238 | 2.14 | 2228 | 1.84 | 2329 | 1.14 | 2224 | 1.34 | 2324 | 1.17 | 2215 | 1.16 | | |
| 4 0014 | 2.40 | 19 0501 | 1.22 | 4 0050 | 1.78 | 19 0500 | 1.17 | 4 0458 | 1.75 | 19 0309 | 1.65 | 4 0507 | 1.83 | 19 0350 | 1.96 |
| 0646 | 1.05 | 1146 | 2.03 | 0723 | 1.22 | 1256 | 2.21 | 1002 | 1.31 | 0834 | 1.25 | 1002 | 1.48 | 0922 | 1.28 |
| WE 1332 | 2.20 | TH 1722 | 1.61 | FR 1543 | 2.40 | SA | | 1701 | 2.59 | TU 1545 | 2.66 | WE 1651 | 2.49 | TH 1559 | 2.75 |
| 1952 | 1.49 | 2301 | 1.95 | 2300 | 1.34 | ● | | 2358 | 1.03 | 2300 | 1.13 | 2348 | 1.07 | 2300 | 0.97 |
| 5 0130 | 2.06 | 20 0544 | 1.31 | 5 0352 | 1.70 | 20 0625 | 1.31 | 5 0536 | 1.93 | 20 0428 | 1.89 | 5 0543 | 2.01 | 20 0501 | 2.22 |
| 0834 | 1.14 | 1332 | 1.98 | 0938 | 1.22 | 1533 | 2.33 | 1101 | 1.23 | 0958 | 1.16 | 1102 | 1.43 | 1041 | 1.26 |
| TH 1604 | 2.29 | FR | | 1658 | 2.56 | SU 2317 | 1.41 | 1739 | 2.64 | WE 1637 | 2.80 | 1727 | 2.51 | FR 1654 | 2.77 |
| 2243 | 1.45 | | | 2355 | 1.15 | ● | | 1809 | 2.67 | 2329 | 0.92 | 1756 | 2.52 | 2339 | 0.78 |
| 6 0343 | 1.91 | 21 0744 | 1.37 | 6 0513 | 1.84 | 21 0400 | 1.61 | 6 0019 | 0.94 | 21 0517 | 2.16 | 6 0010 | 0.98 | 21 0555 | 2.49 |
| 1016 | 1.07 | 1621 | 2.16 | 1051 | 1.12 | 0923 | 1.27 | 0605 | 2.10 | 1058 | 1.02 | 0613 | 2.19 | 1145 | 1.20 |
| FR 1726 | 2.52 | SA 2347 | 1.56 | SU 1744 | 2.68 | MO 1630 | 2.54 | 1143 | 1.16 | TH 1722 | 2.93 | 1146 | 1.38 | SA 1742 | 2.76 |
| ● | | ● | | ● | | ● | | 1809 | 2.67 | 1802 | 3.00 | 1844 | 2.49 | 1908 | 2.65 |
| 7 0002 | 1.26 | 22 0402 | 1.66 | 7 0027 | 1.01 | 22 0454 | 1.84 | 7 0040 | 0.88 | 22 0559 | 2.44 | 7 0031 | 0.89 | 22 0016 | 0.62 |
| 0510 | 1.95 | 1004 | 1.23 | 0553 | 2.00 | 1030 | 1.08 | 0631 | 2.25 | 1151 | 0.91 | 0640 | 2.35 | 0640 | 2.75 |
| SA 1118 | 0.95 | SU 1707 | 2.41 | 1139 | 1.01 | TU 1713 | 2.76 | 1217 | 1.10 | 1151 | 0.91 | 1221 | 1.34 | SU 1240 | 1.15 |
| 1814 | 2.71 | ● | | 1817 | 2.76 | 2356 | 0.99 | 1835 | 2.68 | 1802 | 3.00 | 1821 | 2.51 | 1826 | 2.72 |
| 8 0045 | 1.11 | 23 0000 | 1.36 | 8 0050 | 0.93 | 23 0532 | 2.11 | 8 0100 | 0.82 | 23 0641 | 2.70 | 8 0706 | 2.50 | 23 0723 | 2.96 |
| 0601 | 2.05 | 0501 | 1.83 | 0624 | 2.15 | 1121 | 0.86 | 1246 | 1.07 | 1238 | 0.84 | 1252 | 1.31 | MO 1329 | 1.12 |
| SU 1204 | 0.83 | MO 1057 | 1.02 | 1215 | 0.92 | WE 1751 | 2.97 | 1846 | 2.67 | 1842 | 3.01 | 1844 | 2.49 | 1908 | 2.65 |
| 1848 | 2.83 | 1743 | 2.67 | 1846 | 2.81 | ● | | 1921 | 2.64 | 1921 | 2.94 | 1907 | 2.46 | 1948 | 2.56 |
| 9 0115 | 1.01 | 24 0018 | 1.15 | 9 0111 | 0.88 | 24 0023 | 0.78 | 9 0120 | 0.78 | 24 0105 | 0.40 | 9 0108 | 0.74 | 24 0127 | 0.42 |
| 0638 | 2.15 | 0542 | 2.05 | 0652 | 2.27 | 0610 | 2.38 | 0723 | 2.49 | 0722 | 2.91 | 0732 | 2.64 | 0805 | 3.10 |
| MO 1240 | 0.75 | TU 1141 | 0.78 | 1246 | 0.86 | TH 1206 | 0.67 | 1313 | 1.06 | SU 1323 | 0.83 | 1322 | 1.29 | TU 1415 | 1.12 |
| 1918 | 2.89 | 1818 | 2.93 | 1912 | 2.82 | 1828 | 3.14 | 1921 | 2.64 | 1921 | 2.94 | 1907 | 2.46 | 1948 | 2.56 |
| 10 0139 | 0.96 | 25 0044 | 0.94 | 10 0131 | 0.85 | 25 0053 | 0.58 | 10 0138 | 0.74 | 25 0138 | 0.31 | 10 0128 | 0.66 | 25 0202 | 0.40 |
| 0711 | 2.24 | 0621 | 2.29 | 0718 | 2.37 | 0650 | 2.64 | 0749 | 2.58 | 0804 | 3.06 | 0758 | 2.78 | 0845 | 3.17 |
| TU 1311 | 0.70 | WE 1224 | 0.54 | 1313 | 0.83 | FR 1249 | 0.54 | 1339 | 1.08 | MO 1408 | 0.88 | 1353 | 1.27 | WE 1458 | 1.16 |
| 1946 | 2.91 | 1854 | 3.16 | 1937 | 2.81 | 1906 | 3.24 | 1939 | 2.58 | 1958 | 2.81 | 1932 | 2.43 | 2027 | 2.45 |
| 11 0203 | 0.94 | 26 0116 | 0.73 | 11 0151 | 0.83 | 26 0125 | 0.42 | 11 0155 | 0.70 | 26 0846 | 3.12 | 11 0151 | 0.58 | 26 0236 | 0.43 |
| 0739 | 2.31 | 0702 | 2.53 | 0744 | 2.44 | 0730 | 2.85 | 0813 | 2.66 | 1453 | 0.99 | 0828 | 2.89 | 0924 | 3.16 |
| WE 1340 | 0.67 | TH 1305 | 0.36 | 1339 | 0.84 | SA 1330 | 0.49 | 1405 | 1.11 | 2037 | 2.61 | 1427 | 1.26 | TH 1541 | 1.22 |
| 2011 | 2.90 | 1932 | 3.34 | 1958 | 2.77 | 1943 | 3.23 | 1959 | 2.52 | ● | | 2002 | 2.38 | 2106 | 2.32 |
| 12 0224 | 0.94 | 27 0149 | 0.56 | 12 0211 | 0.83 | 27 0158 | 0.32 | 12 0213 | 0.66 | 27 0928 | 3.09 | 12 0218 | 0.53 | 27 0312 | 0.53 |
| 0807 | 2.35 | 0742 | 2.73 | 0809 | 2.49 | 0810 | 3.00 | 0841 | 2.71 | 1541 | 1.14 | 0902 | 2.96 | 1004 | 3.08 |
| TH 1406 | 0.68 | FR 1346 | 0.25 | 1401 | 0.87 | 1413 | 0.54 | 1434 | 1.16 | 2116 | 2.38 | 1507 | 1.28 | FR 1625 | 1.32 |
| 2036 | 2.86 | 2010 | 3.41 | 2018 | 2.70 | 2020 | 3.12 | 2022 | 2.43 | ● | | 2036 | 2.31 | 2145 | 2.18 |
| 13 0246 | 0.96 | 28 0224 | 0.44 | 13 0229 | 0.83 | 28 0232 | 0.29 | 13 0235 | 0.65 | 28 1014 | 2.98 | 13 0250 | 0.53 | 28 0346 | 0.68 |
| 0832 | 2.37 | 0824 | 2.87 | 0833 | 2.52 | 0853 | 3.05 | 1424 | 0.93 | 1507 | 1.24 | 0941 | 2.99 | 1044 | 2.95 |
| FR 1428 | 0.73 | SA 1427 | 0.26 | 1424 | 0.93 | MO 1457 | 0.70 | 2036 | 2.62 | 2048 | 2.32 | 1551 | 1.32 | SA 1712 | 1.42 |
| 2058 | 2.79 | 2048 | 3.36 | 2058 | 2.52 | ● | | 2117 | 2.17 | 2157 | 2.12 | 2114 | 2.21 | 2223 | 2.03 |
| 14 0306 | 0.99 | 29 0300 | 0.41 | 14 0245 | 0.82 | 29 0307 | 0.35 | 14 0300 | 0.67 | 29 1104 | 2.82 | 14 0326 | 0.59 | 29 0420 | 0.86 |
| 0856 | 2.36 | 0906 | 2.91 | 0858 | 2.53 | 0936 | 3.00 | 0947 | 2.73 | 1547 | 1.35 | 1026 | 2.96 | 1125 | 2.78 |
| SA 1449 | 0.80 | SU 1510 | 0.41 | 1448 | 1.02 | TU 1543 | 0.93 | 1547 | 1.35 | 1744 | 1.47 | 1643 | 1.39 | SU 1809 | 1.53 |
| ○ 2117 | 2.70 | ● 2127 | 3.18 | 2054 | 2.52 | 2137 | 2.60 | 2117 | 2.17 | 2243 | 1.88 | 2159 | 2.08 | 2304 | 1.88 |
| 15 0324 | 1.02 | 30 0337 | 0.46 | 15 0304 | 0.83 | 30 0345 | 0.50 | 15 0330 | 0.74 | 30 1204 | 2.64 | 15 0409 | 0.71 | 30 0451 | 1.06 |
| 0919 | 2.33 | 0951 | 2.85 | 0925 | 2.52 | 1024 | 2.86 | 1029 | 2.66 | 2013 | 1.51 | 1118 | 2.89 | 1210 | 2.61 |
| SU 1511 | 0.90 | MO 1554 | 0.67 | TU 1517 | 1.14 | WE 1637 | 1.21 | 2115 | 2.39 | 2340 | 1.67 | 1750 | 1.46 | MO 1954 | 1.58 |
| 2135 | 2.59 | 2206 | 2.89 | 2218 | 2.26 | | | 2152 | 1.99 | | | 2255 | 1.93 | 2352 | 1.75 |
| | | | | 31 | 0425 | 0.72 | | | | | | | 31 | 0523 | 1.27 |
| | | | | | 1120 | 2.67 | | | | | | | | 1304 | 2.45 |
| | | | | | 1751 | 1.46 | | | | | | | | TU 2141 | 1.52 |
| | | | | | 2305 | 1.92 | | | | | | | | | |

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LAT 17° 36' S LONG 146° 07' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|---|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|--------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|-----------|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|---------------------|----|--|--|----------------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| Time | m | Time | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 0102 1.22 | 16 | 0102 0.98 | | 1 0129 1.29 | 16 | 0238 1.23 | | 1 0154 1.24 | 16 | 0319 1.22 | | 1 0309 0.93 | 16 | 0348 1.18 | | 2 0354 0.89 | 17 | 0411 1.24 | | 1 0309 0.93 | 16 | 0348 1.18 | | 2 0354 0.89 | 17 | 0411 1.24 | | 3 0440 0.91 | 18 | 0434 1.29 | | 3 1023 2.38 | 18 | 1011 2.04 | | 4 0532 0.97 | 19 | 0501 1.34 | | 5 0632 1.05 | 20 | 0534 1.38 | | 5 1221 2.14 | 20 | 1123 1.88 | | 6 0054 2.61 | 21 | 0620 1.42 | | 7 0211 2.34 | 22 | 0744 1.42 | | 7 0917 1.08 | 22 | 1538 1.84 | | 8 0346 2.18 | 23 | 0047 1.87 | | 8 1039 0.99 | 23 | 0944 1.32 | | 9 0505 2.12 | 24 | 0352 1.82 | | 9 1136 0.87 | 24 | 1034 1.17 | | 10 0046 1.27 | 25 | 0455 1.90 | | 10 0602 2.12 | 25 | 1114 0.98 | | 11 0130 1.17 | 26 | 0024 1.35 | | 11 0646 2.14 | 26 | 0542 2.02 | | 12 0203 1.12 | 27 | 0057 1.17 | | 12 0723 2.16 | 27 | 0626 2.18 | | 13 0233 1.10 | 28 | 0132 0.99 | | 13 0756 2.18 | 28 | 0709 2.35 | | 14 0259 1.11 | 29 | 0210 0.83 | | 14 0825 2.18 | 29 | 0753 2.50 | | 15 0324 1.14 | 30 | 0248 0.72 | | 15 0853 2.17 | 30 | 0836 2.60 | | 16 0328 0.68 | 31 | 0920 2.64 | | 16 0847 2.44 | 31 | 0920 2.64 | | 17 0348 2.15 | 31 | 1522 0.29 | | 17 0919 2.15 | 31 | 1522 0.29 | | 18 1011 2.04 | 32 | 1601 1.02 | | 18 1626 0.45 | 32 | 2240 2.45 | | 19 1628 1.18 | 32 | 2303 2.32 | | 20 1718 0.71 | 33 | 2358 2.88 | | 20 1700 1.37 | 33 | 2329 2.17 | | 21 1224 1.80 | 34 | 1949 2.02 | | 21 2157 1.48 | 34 | 2157 1.48 | | 22 1922 1.75 | 35 | 2312 1.68 | | 23 2343 1.40 | 35 | 2312 1.68 | | 24 1034 1.17 | 36 | 2354 1.53 | | 24 1352 2.27 | 36 | 2354 1.53 | | 25 1114 0.98 | 37 | 1915 2.76 | | 25 1805 2.51 | 37 | 1915 2.76 | | 26 0542 2.02 | 38 | 1949 2.85 | | 26 1153 0.77 | 38 | 1840 2.75 | | 27 0626 2.18 | 39 | 2020 2.88 | | 27 1233 0.55 | 39 | 1918 2.99 | | 28 0709 2.35 | 40 | 1957 3.18 | | 28 1315 0.36 | 40 | 1957 3.18 | | 29 0753 2.50 | 41 | 2037 3.31 | | 29 1356 0.23 | 41 | 2037 3.31 | | 30 0836 2.60 | 42 | 2112 2.82 | | 30 1439 0.20 | 42 | 2112 2.82 | | 31 0920 2.64 | 43 | 2157 3.24 | | 31 1522 0.29 | 43 | 2157 3.24 | | 32 1522 0.29 | 44 | | | 32 2240 2.45 | 44 | | | 33 2220 2.57 | 45 | | | 33 2303 2.32 | 45 | | | 34 2329 2.17 | 46 | | | 34 2358 2.02 | 46 | | | 35 2354 1.53 | 47 | | | 35 2329 2.17 | 47 | | | 36 2354 1.53 | 48 | | | 36 2329 2.17 | 48 | | | 37 2354 1.53 | 49 | | | 37 2329 2.17 | 49 | | | 38 2354 1.53 | 50 | | | 38 2329 2.17 | 50 | | | 39 2354 1.53 | 51 | | | 39 2329 2.17 | 51 | | | 40 2354 1.53 | 52 | | | 40 2329 2.17 | 52 | | | 41 2354 1.53 | 53 | | | 41 2329 2.17 | 53 | | | 42 2354 1.53 | 54 | | | 42 2329 2.17 | 54 | | | 43 2354 1.53 | 55 | | | 43 2329 2.17 | 55 | | | 44 2354 1.53 | 56 | | | 44 2329 2.17 | 56 | | | 45 2354 1.53 | 57 | | | 45 2329 2.17 | 57 | | | 46 2354 1.53 | 58 | | | 46 2329 2.17 | 58 | | | 47 2354 1.53 | 59 | | | 47 2329 2.17 | 59 | | | 48 2354 1.53 | 60 | | | 48 2329 2.17 | 60 | | | 49 2354 1.53 | 61 | | | 49 2329 2.17 | 61 | | | 50 2354 1.53 | 62 | | | 50 2329 2.17 | 62 | | | 51 2354 1.53 | 63 | | | 51 2329 2.17 | 63 | | | 52 2354 1.53 | 64 | | | 52 2329 2.17 | 64 | | | 53 2354 1.53 | 65 | | | 53 2329 2.17 | 65 | | | 54 2354 1.53 | 66 | | | 54 2329 2.17 | 66 | | | 55 2354 1.53 | 67 | | | 55 2329 2.17 | 67 | | | 56 2354 1.53 | 68 | | | 56 2329 2.17 | 68 | | | 57 2354 1.53 | 69 | | | 57 2329 2.17 | 69 | | | 58 2354 1.53 | 70 | | | 58 2329 2.17 | 70 | | | 59 2354 1.53 | 71 | | | 59 2329 2.17 | 71 | | | 60 2354 1.53 | 72 | | | 60 2329 2.17 | 72 | | | 61 2354 1.53 | 73 | | | 61 2329 2.17 | 73 | | | 62 2354 1.53 | 74 | | | 62 2329 2.17 | 74 | | | 63 2354 1.53 | 75 | | | 63 2329 2.17 | 75 | | | 64 2354 1.53 | 76 | | | 64 2329 2.17 | 76 | | | 65 2354 1.53 | 77 | | | 65 2329 2.17 | 77 | | | 66 2354 1.53 | 78 | | | 66 2329 2.17 | 78 | | | 67 2354 1.53 | 79 | | | 67 2329 2.17 | 79 | | | 68 2354 1.53 | 80 | | | 68 2329 2.17 | 80 | | | 69 2354 1.53 | 81 | | | 69 2329 2.17 | 81 | | | 70 2354 1.53 | 82 | | | 70 2329 2.17 | 82 | | | 71 2354 1.53 | 83 | | | 71 2329 2.17 | 83 | | | 72 2354 1.53 | 84 | | | 72 2329 2.17 | 84 | | | 73 2354 1.53 | 85 | | | 73 2329 2.17 | 85 | | | 74 2354 1.53 | 86 | | | 74 2329 2.17 | 86 | | | 75 2354 1.53 | 87 | | | 75 2329 2.17 | 87 | | | 76 2354 1.53 | 88 | | | 76 2329 2.17 | 88 | | | 77 2354 1.53 | 89 | | | 77 2329 2.17 | 89 | | | 78 2354 1.53 | 90 | | | 78 2329 2.17 | 90 | | | 79 2354 1.53 | 91 | | | 79 2329 2.17 | 91 | | | 80 2354 1.53 | 92 | | | 80 2329 2.17 | 92 | | | 81 2354 1.53 | 93 | | | 81 2329 2.17 | 93 | | | 82 2354 1.53 | 94 | | | 82 2329 2.17 | 94 | | | 83 2354 1.53 | 95 | | | 83 2329 2.17 | 95 | | | 84 2354 1.53 | 96 | | | 84 2329 2.17 | 96 | | | 85 2354 1.53 | 97 | | | 85 2329 2.17 | 97 | | | 86 2354 1.53 | 98 | | | 86 2329 2.17 | 98 | | | 87 2354 1.53 | 99 | | | 87 2329 2.17 | 99 | | | 88 2354 1.53 | 100 | | | 88 2329 2.17 | 100 | | | 89 2354 1.53 | 101 | | | 89 2329 2.17 | 101 | | | 90 2354 1.53 | 102 | | | 90 2329 2.17 | 102 | | | 91 2354 1.53 | 103 | | | 91 2329 2.17 | 103 | | | 92 2354 1.53 | 104 | | | 92 2329 2.17 | 104 | | | 93 2354 1.53 | 105 | | | 93 2329 2.17 | 105 | | | 94 2354 1.53 | 106 | | | 94 2329 2.17 | 106 | | | 95 2354 1.53 | 107 | | | 95 2329 2.17 | 107 | | | 96 2354 1.53 | 108 | | | 96 2329 2.17 | 108 | | | 97 2354 1.53 | 109 | | | 97 2329 2.17 | 109 | | | 98 2354 1.53 | 110 | | | 98 2329 2.17 | 110 | | | 99 2354 1.53 | 111 | | | 99 2329 2.17 | 111 | | | 100 2354 1.53 | 112 | | | 100 2329 2.17 | 112 | | | 101 2354 1.53 | 113 | | | 101 2329 2.17 | 113 | | | 102 2354 1.53 | 114 | | | 102 2329 2.17 | 114 | | | 103 2354 1.53 | 115 | | | 103 2329 2.17 | 115 | | | 104 2354 1.53 | 116 | | | 104 2329 2.17 | 116 | | | 105 2354 1.53 | 117 | | | 105 2329 2.17 | 117 | | | 106 2354 1.53 | 118 | | | 106 2329 2.17 | 118 | | | 107 2354 1.53 | 119 | | | 107 2329 2.17 | 119 | | | 108 2354 1.53 | 120 | | | 108 2329 2.17 | 120 | | | 109 2354 1.53 | 121 | | | 109 2329 2.17 | 121 | | | 110 2354 1.53 | 122 | | | 110 2329 2.17 | 122 | | | 111 2354 1.53 | 123 | | | 111 2329 2.17 | 123 | | | 112 2354 1.53 | 124 | | | 112 2329 2.17 | 124 | | | 113 2354 1.53 | 125 | | | 113 2329 2.17 | 125 | | | 114 2354 1.53 | 126 | | | 114 2329 2.17 | 126 | | | 115 2354 1.53 | 127 | | | 115 2329 2.17 | 127 | | | 116 2354 1.53 | 128 | | | 116 2329 2.17 | 128 | | | 117 2354 1.53 | 129 | | | 117 2329 2.17 | 129 | | | 118 2354 1.53 | 130 | | | 118 2329 2.17 | 130 | | | 119 2354 1.53 | 131 | | | 119 2329 2.17 | 131 | | | 120 2354 1.53 | 132 | | | 120 2329 2.17 | 132 | | | 121 2354 1.53 | 133 | | | 121 2329 2.17 | 133 | | | 122 2354 1.53 | 134 | | | 122 2329 2.17 | 134 | | | 123 2354 1.53 | 135 | | | 123 2329 2.17 | 135 | | | 124 2354 1.53 | 136 | | | 124 2329 2.17 | 136 | | | 125 2354 1.53 | 137 | | | 125 2329 2.17 | 137 | | | 126 2354 1.53 | 138 | | | 126 2329 2.17 | 138 | | | 127 2354 1.53 | 139 | | | 127 2329 2.17 | 139 | | | 128 2354 1.53 | 140 | | | 128 2329 2.17 | 140 | | | 129</ |

AUSTRALIA, EAST COAST – MOURILYAN HARBOUR

2019

LAT 17° 36' S LONG 146° 07' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0409 | 0.70 | 16 0343 | 1.07 | 1 0415 | 0.65 | 16 0324 | 0.85 | 1 0512 | 1.01 | 16 0406 | 0.83 | 1 0534 | 1.19 | 16 0459 | 0.85 |
| 1006 | 2.59 | 0945 | 2.26 | 1037 | 2.63 | 0957 | 2.46 | 1304 | 2.44 | 1119 | 2.57 | 1351 | 2.47 | 1217 | 2.78 |
| SU 1608 | 0.51 | MO 1533 | 1.05 | TU 1644 | 1.05 | WE 1548 | 1.27 | FR 2130 | 1.47 | SA 1750 | 1.56 | SU 2212 | 1.37 | MO 1920 | 1.44 |
| 2237 | 3.02 | 2154 | 2.42 | 2245 | 2.45 | 2136 | 2.22 | 2236 | 1.82 | | | | | | |
| 2 0454 | 0.79 | 17 0406 | 1.10 | 2 0500 | 0.83 | 17 0351 | 0.90 | 2 0017 | 1.58 | 17 0455 | 0.99 | 2 0205 | 1.52 | 17 0005 | 1.82 |
| 1056 | 2.46 | 1016 | 2.20 | 1136 | 2.44 | 1036 | 2.39 | 0624 | 1.24 | 1234 | 2.49 | 0653 | 1.38 | 0606 | 1.04 |
| MO 1658 | 0.83 | TU 1602 | 1.21 | 1755 | 1.38 | TH 1630 | 1.44 | 1509 | 2.44 | SU 2041 | 1.54 | MO 1516 | 2.44 | TU 1332 | 2.71 |
| 2321 | 2.72 | 2215 | 2.29 | 2332 | 2.07 | 2201 | 2.05 | 2251 | 1.27 | 2358 | 1.64 | 2301 | 1.24 | 2057 | 1.35 |
| 3 0544 | 0.93 | 18 0432 | 1.15 | 3 0555 | 1.04 | 18 0423 | 1.00 | 3 0404 | 1.58 | 18 0612 | 1.16 | 3 0436 | 1.66 | 18 0154 | 1.78 |
| 1157 | 2.29 | 1054 | 2.12 | 1331 | 2.29 | 1126 | 2.30 | 0839 | 1.35 | 1423 | 2.51 | 0851 | 1.47 | 0738 | 1.21 |
| TU 1802 | 1.20 | WE 1637 | 1.39 | 2109 | 1.54 | 1730 | 1.61 | 1623 | 2.52 | MO 2211 | 1.36 | TU 1617 | 2.45 | WE 1450 | 2.69 |
| 2237 | 2.12 | | | | | 2228 | 1.85 | 2335 | 1.11 | | | 2332 | 1.14 | 2208 | 1.19 |
| 4 0012 | 2.36 | 19 0504 | 1.21 | 4 0054 | 1.74 | 19 0505 | 1.13 | 4 0512 | 1.77 | 19 0249 | 1.64 | 4 0522 | 1.84 | 19 0344 | 1.92 |
| 0650 | 1.07 | 1144 | 2.03 | 0731 | 1.22 | 1247 | 2.22 | 1012 | 1.30 | 0817 | 1.23 | 1013 | 1.46 | 0912 | 1.29 |
| WE 1341 | 2.16 | TH 1725 | 1.59 | 1554 | 2.39 | SA | | 1710 | 2.58 | TU 1539 | 2.61 | 1701 | 2.47 | TH 1557 | 2.69 |
| 1952 | 1.50 | 2300 | 1.94 | 2306 | 1.33 | | | 2254 | 1.17 | | | 2355 | 1.06 | 2258 | 1.01 |
| 5 0132 | 2.03 | 20 0549 | 1.29 | 5 0407 | 1.69 | 20 0623 | 1.27 | 5 0004 | 1.00 | 20 0419 | 1.84 | 5 0554 | 2.01 | 20 0459 | 2.16 |
| 0832 | 1.15 | 1330 | 1.98 | 0945 | 1.22 | 1517 | 2.31 | 0545 | 1.94 | 0946 | 1.17 | 1109 | 1.42 | 1033 | 1.29 |
| TH 1612 | 2.28 | FR | | 1706 | 2.55 | SU 2305 | 1.44 | TU 1108 | 1.22 | WE 1634 | 2.74 | 1734 | 2.48 | FR 1653 | 2.69 |
| 2248 | 1.46 | | | | | | | 1746 | 2.62 | 2327 | 0.97 | | | 2339 | 0.84 |
| 6 0349 | 1.89 | 21 0731 | 1.34 | 6 0000 | 1.13 | 21 0335 | 1.60 | 6 0026 | 0.93 | 21 0513 | 2.10 | 6 0014 | 0.98 | 21 0555 | 2.42 |
| 1019 | 1.09 | 1606 | 2.15 | 0522 | 1.84 | 0902 | 1.26 | 0612 | 2.09 | 1051 | 1.06 | 0621 | 2.17 | 21 1142 | 1.26 |
| FR 1732 | 2.50 | SA 2334 | 1.57 | SU 1058 | 1.12 | MO 1622 | 2.50 | 1148 | 1.16 | TH 1720 | 2.84 | 1151 | 1.39 | SA 1741 | 2.67 |
| ● | | | | 1751 | 2.67 | ● 2328 | 1.24 | 1814 | 2.64 | 2358 | 0.79 | 1800 | 2.48 | | |
| 7 0005 | 1.27 | 22 0343 | 1.65 | 7 0032 | 1.00 | 22 0443 | 1.80 | 7 0044 | 0.89 | 22 0558 | 2.36 | 7 0033 | 0.91 | 22 0016 | 0.70 |
| 0515 | 1.93 | 0948 | 1.23 | 0600 | 1.99 | 1019 | 1.10 | 0637 | 2.22 | 1144 | 0.97 | 0645 | 2.31 | 22 0643 | 2.65 |
| SA 1122 | 0.96 | SU 1659 | 2.37 | 1143 | 1.01 | TU 1709 | 2.70 | 1221 | 1.11 | FR 1802 | 2.89 | 1225 | 1.36 | SU 1240 | 1.22 |
| 1821 | 2.68 | ● 2351 | 1.39 | 1825 | 2.74 | 2353 | 1.04 | 1839 | 2.63 | | | 1823 | 2.46 | 1826 | 2.62 |
| 8 0050 | 1.11 | 23 0453 | 1.81 | 8 0055 | 0.93 | 23 0527 | 2.05 | 8 0102 | 0.85 | 23 0030 | 0.62 | 8 0709 | 2.45 | 23 0728 | 2.84 |
| 0605 | 2.03 | 1048 | 1.04 | 0629 | 2.12 | 1113 | 0.91 | 0702 | 2.33 | 0640 | 2.60 | 1254 | 1.33 | MO 1330 | 1.20 |
| SU 1207 | 0.86 | MO 1739 | 2.61 | TU 1219 | 0.93 | WE 1749 | 2.88 | 1250 | 1.09 | SA 1233 | 0.91 | 1844 | 2.44 | 1907 | 2.55 |
| 1856 | 2.79 | | | 1852 | 2.76 | | | 1901 | 2.61 | 1841 | 2.89 | | | | |
| 9 0120 | 1.02 | 24 0013 | 1.19 | 9 0116 | 0.89 | 24 0020 | 0.85 | 9 0121 | 0.81 | 24 0102 | 0.49 | 9 0732 | 2.58 | 24 0810 | 2.97 |
| 0642 | 2.12 | 0537 | 2.01 | 0655 | 2.23 | 0608 | 2.30 | 0725 | 2.43 | 0723 | 2.79 | 1323 | 1.31 | TU 1417 | 1.20 |
| MO 1243 | 0.78 | TU 1134 | 0.82 | WE 1250 | 0.89 | TH 1159 | 0.73 | 1315 | 1.09 | SU 1321 | 0.91 | 1905 | 2.42 | 1947 | 2.45 |
| 1925 | 2.83 | 1817 | 2.84 | 1917 | 2.75 | 1828 | 3.03 | 1921 | 2.57 | 1920 | 2.82 | | | | |
| 10 0144 | 0.98 | 25 0041 | 1.00 | 10 0135 | 0.88 | 25 0051 | 0.67 | 10 0137 | 0.78 | 25 0135 | 0.41 | 10 0758 | 2.71 | 25 0851 | 3.03 |
| 0713 | 2.19 | 0619 | 2.23 | 0721 | 2.31 | 0648 | 2.54 | 0749 | 2.52 | 0805 | 2.92 | 1352 | 1.28 | WE 1502 | 1.24 |
| TU 1314 | 0.74 | WE 1217 | 0.60 | 1316 | 0.87 | FR 1243 | 0.61 | 1339 | 1.11 | MO 1406 | 0.97 | 1930 | 2.40 | 2025 | 2.34 |
| 1952 | 2.84 | 1854 | 3.05 | 1939 | 2.73 | 1906 | 3.10 | 1939 | 2.53 | 1957 | 2.69 | | | | |
| 11 0207 | 0.97 | 26 0113 | 0.81 | 11 0154 | 0.88 | 26 0123 | 0.52 | 11 0153 | 0.73 | 26 0208 | 0.39 | 11 0827 | 0.59 | 26 0930 | 0.53 |
| 0740 | 2.25 | 0659 | 2.45 | 0745 | 2.38 | 0729 | 2.74 | 0813 | 2.60 | 0847 | 2.98 | 1427 | 1.27 | TH 1546 | 1.30 |
| WE 1341 | 0.72 | TH 1258 | 0.42 | 1339 | 0.88 | SA 1325 | 0.57 | 1403 | 1.13 | TU 1453 | 1.08 | 1959 | 2.36 | ● 2103 | 2.22 |
| 2015 | 2.81 | 1932 | 3.20 | 1959 | 2.69 | 1943 | 3.09 | 1958 | 2.47 | 2034 | 2.50 | | | | |
| 12 0228 | 0.99 | 27 0147 | 0.65 | 12 0211 | 0.87 | 27 0156 | 0.42 | 12 0210 | 0.68 | 27 0243 | 0.44 | 12 0901 | 2.91 | 27 1009 | 2.95 |
| 0807 | 2.29 | 0741 | 2.64 | 0809 | 2.43 | 0810 | 2.87 | 0839 | 2.67 | 0931 | 2.95 | 1506 | 1.27 | FR 1631 | 1.37 |
| TH 1406 | 0.74 | FR 1339 | 0.32 | 1401 | 0.91 | 1408 | 0.63 | 1432 | 1.17 | WE 1543 | 1.22 | 2032 | 2.31 | 2141 | 2.09 |
| 2038 | 2.77 | 2010 | 3.27 | 2018 | 2.63 | 2020 | 2.98 | ● 2020 | 2.40 | ● 2112 | 2.28 | | | | |
| 13 0248 | 1.01 | 28 0222 | 0.54 | 13 0227 | 0.86 | 28 0229 | 0.39 | 13 0232 | 0.64 | 28 0320 | 0.57 | 13 0940 | 2.94 | 28 1050 | 2.83 |
| 0832 | 2.31 | 0822 | 2.77 | 0832 | 2.47 | 0852 | 2.92 | 0910 | 2.71 | 1017 | 2.86 | 1550 | 1.30 | SA 1721 | 1.46 |
| FR 1427 | 0.78 | SA 1421 | 0.34 | 1422 | 0.96 | MO 1453 | 0.78 | 1507 | 1.23 | TH 1640 | 1.37 | 2111 | 2.22 | 2220 | 1.95 |
| 2058 | 2.71 | 2048 | 3.23 | 2035 | 2.56 | ● 2056 | 2.78 | 2045 | 2.31 | 2153 | 2.04 | | | | |
| 14 0307 | 1.03 | 29 0258 | 0.49 | 14 0243 | 0.85 | 29 0305 | 0.44 | 14 0258 | 0.65 | 29 0400 | 0.75 | 14 1024 | 2.93 | 29 1134 | 2.69 |
| 0855 | 2.31 | 0905 | 2.81 | 0857 | 2.49 | 0936 | 2.88 | 0945 | 2.70 | 1110 | 2.72 | 1642 | 1.37 | SU 1826 | 1.54 |
| SA 1447 | 0.84 | SU 1505 | 0.47 | MO 1446 | 1.04 | TU 1542 | 1.00 | 1547 | 1.33 | FR 1758 | 1.49 | 2155 | 2.09 | 2301 | 1.81 |
| ○ 2117 | 2.63 | ● 2126 | 3.06 | ○ 2053 | 2.48 | 2134 | 2.50 | 2114 | 2.17 | 2238 | 1.81 | | | | |
| 15 0324 | 1.05 | 30 0335 | 0.53 | 15 0302 | 0.84 | 30 0343 | 0.57 | 15 0329 | 0.71 | 30 0443 | 0.96 | 15 1115 | 2.86 | 30 1222 | 2.54 |
| 0919 | 2.29 | 0949 | 2.76 | 0925 | 2.49 | 1024 | 2.76 | 1028 | 2.65 | 1219 | 2.57 | 1748 | 1.43 | MO 2015 | 1.57 |
| SU 1508 | 0.93 | MO 1551 | 0.72 | TU 1514 | 1.14 | WE 1639 | 1.26 | 1637 | 1.45 | SA 2041 | 1.50 | 2251 | 1.95 | 2353 | 1.69 |
| 2135 | 2.54 | 2204 | 2.79 | 2114 | 2.37 | 2214 | 2.18 | 2150 | 2.01 | 2339 | 1.61 | | | | |
| | | | | 31 | 0424 | 0.77 | | | | | | | | | |
| | | | | | 1122 | 2.58 | | | | | | | | | |
| | | | | | 1802 | 1.49 | | | | | | | | | |
| | | | | | 2300 | 1.85 | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – CAIRNS

2019

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

FEBRUARY

MARCH

APRIL

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
|-----------|--------|------|-----------|------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|
| 1 | 0011 | 0.71 | 16 | 0609 | 2.34 | 1 | 0117 | 0.72 | 16 | 0021 | 0.70 | 1 | 0026 | 0.97 |
| | 0657 | 2.61 | | 1146 | 1.51 | | 0810 | 2.93 | | 0709 | 2.99 | | 0718 | 2.88 |
| TU | 1238 | 1.26 | WE | 1739 | 2.30 | FR | 1403 | 1.23 | SA | 1305 | 1.17 | FR | 1321 | 1.22 |
| | 1838 | 2.44 | | | | | 1947 | 2.28 | | 1855 | 2.45 | | 1905 | 2.27 |
| 2 | 0049 | 0.62 | 17 | 0004 | 0.81 | 2 | 0150 | 0.68 | 17 | 0105 | 0.47 | 2 | 0102 | 0.88 |
| | 0740 | 2.76 | | 0644 | 2.60 | | 0841 | 2.95 | | 0752 | 3.24 | | 0748 | 2.94 |
| WE | 1325 | 1.24 | TH | 1230 | 1.36 | SA | 1435 | 1.22 | SU | 1347 | 0.98 | SA | 1347 | 1.16 |
| | 1918 | 2.37 | | | | | 2015 | 2.28 | | 1941 | 2.60 | | 1936 | 2.34 |
| 3 | 0125 | 0.58 | 18 | 0039 | 0.59 | 3 | 0220 | 0.67 | 18 | 0149 | 0.28 | 3 | 0133 | 0.81 |
| | 0819 | 2.85 | | 0723 | 2.87 | | 0909 | 2.94 | | 0834 | 3.43 | | 0816 | 2.96 |
| TH | 1406 | 1.23 | FR | 1313 | 1.20 | SU | 1504 | 1.23 | MO | 1429 | 0.83 | SU | 1413 | 1.13 |
| | 1950 | 2.29 | | | | | 2041 | 2.28 | | 2025 | 2.72 | | 2002 | 2.39 |
| 4 | 0158 | 0.57 | 19 | 0118 | 0.39 | 4 | 0248 | 0.70 | 19 | 0232 | 0.17 | 4 | 0203 | 0.78 |
| | 0853 | 2.88 | | 0806 | 3.10 | | 0933 | 2.91 | | 0915 | 3.52 | | 0841 | 2.96 |
| FR | 1443 | 1.25 | SA | 1358 | 1.05 | MO | 1531 | 1.26 | TU | 1511 | 0.74 | MO | 1438 | 1.12 |
| | 2019 | 2.22 | | | | | 2103 | 2.27 | | 2108 | 2.78 | | 2027 | 2.43 |
| 5 | 0229 | 0.60 | 20 | 0200 | 0.24 | 5 | 0312 | 0.75 | 20 | 0315 | 0.18 | 5 | 0228 | 0.78 |
| | 0924 | 2.87 | | 0849 | 3.29 | | 0955 | 2.85 | | 0954 | 3.50 | | 0902 | 2.93 |
| SA | 1519 | 1.29 | SU | 1442 | 0.95 | TU | 1555 | 1.31 | WE | 1553 | 0.74 | TU | 1500 | 1.13 |
| | 2046 | 2.15 | | | | | ● 2124 | 2.25 | | ○ 2152 | 2.76 | | 2048 | 2.46 |
| 6 | 0259 | 0.65 | 21 | 0243 | 0.15 | 6 | 0336 | 0.82 | 21 | 0359 | 0.32 | 6 | 0251 | 0.81 |
| | 0953 | 2.82 | | 0932 | 3.40 | | 1015 | 2.78 | | 1033 | 3.35 | | 0921 | 2.89 |
| SU | 1553 | 1.35 | MO | 1527 | 0.90 | WE | 1619 | 1.36 | TH | 1636 | 0.81 | WE | 1521 | 1.14 |
| | ● 2111 | 2.08 | | | | | 2149 | 2.21 | | 2237 | 2.66 | | 2109 | 2.48 |
| 7 | 0326 | 0.74 | 22 | 0327 | 0.16 | 7 | 0359 | 0.92 | 22 | 0444 | 0.59 | 7 | 0314 | 0.86 |
| | 1021 | 2.74 | | 1016 | 3.41 | | 1035 | 2.69 | | 1114 | 3.10 | | 0938 | 2.83 |
| MO | 1626 | 1.42 | TU | 1614 | 0.91 | TH | 1645 | 1.41 | FR | 1721 | 0.95 | TH | 1543 | 1.15 |
| | 2136 | 2.01 | | | | | 2218 | 2.15 | | 2328 | 2.49 | | ● 2133 | 2.48 |
| 8 | 0352 | 0.84 | 23 | 0413 | 0.28 | 8 | 0426 | 1.05 | 23 | 0532 | 0.96 | 8 | 0338 | 0.94 |
| | 1047 | 2.65 | | 1100 | 3.31 | | 1059 | 2.59 | | 1158 | 2.77 | | 0957 | 2.76 |
| TU | 1659 | 1.50 | WE | 1703 | 0.99 | FR | 1716 | 1.45 | SA | 1811 | 1.14 | FR | 1609 | 1.17 |
| | 2201 | 1.92 | | | | | 2252 | 2.06 | | 2352 | 2.45 | | 2202 | 2.45 |
| 9 | 0417 | 0.96 | 24 | 0501 | 0.51 | 9 | 0457 | 1.22 | 24 | 0031 | 2.29 | 9 | 0406 | 1.07 |
| | 1114 | 2.54 | | 1147 | 3.12 | | 1127 | 2.46 | | 0628 | 1.37 | | 1019 | 2.65 |
| WE | 1735 | 1.57 | TH | 1757 | 1.10 | SU | 1752 | 1.50 | SU | 1252 | 2.41 | SA | 1637 | 1.20 |
| | 2231 | 1.83 | | | | | 2335 | 1.96 | | 1917 | 1.31 | | 2235 | 2.39 |
| 10 | 0445 | 1.11 | 25 | 0553 | 0.84 | 10 | 0532 | 1.41 | 25 | 0216 | 2.16 | 10 | 0439 | 1.23 |
| | 1144 | 2.44 | | 1240 | 2.87 | | 1158 | 2.32 | | 0824 | 1.68 | | 1043 | 2.51 |
| TH | 1823 | 1.63 | FR | 1901 | 1.21 | SU | 1836 | 1.53 | MO | 1422 | 2.11 | SU | 1709 | 1.25 |
| | 2312 | 1.73 | | | | | 2128 | 1.35 | | 2128 | 1.35 | | 2314 | 2.29 |
| 11 | 0517 | 1.27 | 26 | 0105 | 2.07 | 11 | 0040 | 1.87 | 26 | 0506 | 2.34 | 11 | 0515 | 1.43 |
| | 1222 | 2.33 | | 0656 | 1.19 | | 0616 | 1.61 | | 1109 | 1.63 | | 1108 | 2.33 |
| FR | 2152 | 1.59 | SU | 1344 | 2.60 | MO | 1236 | 2.17 | TU | 1634 | 2.04 | MO | 1745 | 1.32 |
| | | | | | | | 1949 | 1.53 | | ○ 2254 | 1.23 | | | |
| 12 | 0018 | 1.64 | 27 | 0252 | 2.03 | 12 | 0429 | 1.91 | 27 | 0602 | 2.58 | 12 | 0005 | 2.19 |
| | 0558 | 1.45 | | 0834 | 1.48 | | 0728 | 1.80 | | 1224 | 1.45 | | 0600 | 1.64 |
| SA | 1315 | 2.23 | SU | 1506 | 2.39 | | 1408 | 2.04 | WE | 1743 | 2.11 | | 1135 | 2.14 |
| | 2230 | 1.47 | | | | | 2214 | 1.38 | | 2346 | 1.09 | | 1828 | 1.39 |
| 13 | 0439 | 1.67 | 28 | 0506 | 2.22 | 13 | 0509 | 2.15 | 28 | 0643 | 2.76 | 13 | 0139 | 2.12 |
| | 0655 | 1.62 | | 1034 | 1.54 | | 1043 | 1.74 | | 1254 | 1.32 | | 0715 | 1.84 |
| SU | 1451 | 2.17 | MO | 1636 | 2.30 | WE | 1624 | 2.06 | TH | 1829 | 2.19 | WE | 1212 | 1.95 |
| | 2250 | 1.35 | | | | | ● 2257 | 1.18 | | | | | 1949 | 1.45 |
| 14 | 0515 | 1.87 | 29 | 0612 | 2.48 | 14 | 0546 | 2.42 | | | | 14 | 0428 | 2.29 |
| | 0947 | 1.71 | | 1155 | 1.46 | | 1136 | 1.58 | TH | 1720 | 2.16 | | 1047 | 1.71 |
| MO | 1614 | 2.19 | TU | 1743 | 2.28 | | | 2339 | 0.95 | | | | 1607 | 1.90 |
| | ● 2308 | 1.19 | | | | | | | | | | | 2220 | 1.30 |
| 15 | 0540 | 2.09 | 30 | 0001 | 0.89 | 15 | 0626 | 2.70 | | | | 15 | 0518 | 2.55 |
| | 1059 | 1.63 | | 0657 | 2.70 | | 1221 | 1.37 | FR | 1809 | 2.30 | | 1134 | 1.50 |
| TU | 1658 | 2.24 | WE | 1249 | 1.36 | | | | | | | | 1711 | 2.06 |
| | 2333 | 1.01 | | | | | | | | | | | 2316 | 1.07 |
| 31 | 0041 | 0.79 | | 0735 | 2.84 | | | | | | | | 0647 | 2.82 |
| | | | TH | 1330 | 1.28 | | | | | | | | 1257 | 1.14 |
| | | | | 1914 | 2.28 | | | | | | | | 1847 | 2.25 |
| 31 | 0037 | 1.05 | | | | | | | | | | | 0036 | 1.17 |
| | | | | | | | | | | | | | 0716 | 2.87 |
| | | | | | | | | | | | | | 1320 | 1.08 |
| | | | | | | | | | | | | | 1916 | 2.35 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – CAIRNS

2019

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m |
| 1 0106 | 1.12 | 16 0106 | 0.86 | 1 0134 | 1.19 | 16 0229 | 1.13 | 1 0153 | 1.14 | 16 0309 | 1.14 | 1 0307 | 0.82 | 16 0347 | 1.10 |
| 0723 | 2.73 | 0723 | 2.93 | 0728 | 2.50 | 0815 | 2.33 | 0736 | 2.32 | 0846 | 2.09 | 0854 | 2.39 | 0926 | 2.10 |
| WE 1331 | 0.92 | TH 1329 | 0.52 | SA 1344 | 0.63 | SU 1425 | 0.51 | MO 1354 | 0.41 | TU 1452 | 0.58 | TH 1506 | 0.14 | FR 1532 | 0.73 |
| 1942 | 2.52 | 2003 | 2.86 | 2017 | 2.77 | 2121 | 2.91 | 2041 | 2.97 | 2147 | 2.84 | ● 2153 | 3.27 | 2208 | 2.64 |
| 2 0132 | 1.09 | 17 0149 | 0.87 | 2 0208 | 1.14 | 17 0311 | 1.19 | 2 0234 | 1.06 | 17 0345 | 1.18 | 2 0351 | 0.78 | 17 0412 | 1.16 |
| 0744 | 2.71 | 0758 | 2.83 | 0756 | 2.47 | 0848 | 2.20 | 0815 | 2.32 | 0916 | 2.03 | 0940 | 2.39 | 0950 | 2.06 |
| TH 1352 | 0.85 | FR 1405 | 0.46 | SU 1415 | 0.53 | MO 1501 | 0.57 | TU 1434 | 0.32 | WE 1525 | 0.65 | FR 1551 | 0.19 | SA 1556 | 0.84 |
| 2008 | 2.63 | 2043 | 2.95 | 2052 | 2.89 | ○ 2157 | 2.87 | 2123 | 3.08 | ○ 2217 | 2.76 | 2235 | 3.23 | 2226 | 2.53 |
| 3 0158 | 1.07 | 18 0231 | 0.94 | 3 0245 | 1.12 | 18 0354 | 1.27 | 3 0318 | 1.01 | 18 0420 | 1.24 | 3 0437 | 0.80 | 18 0437 | 1.22 |
| 0803 | 2.69 | 0830 | 2.68 | 0826 | 2.42 | 0924 | 2.07 | 0857 | 2.30 | 0946 | 1.97 | 1030 | 2.34 | 1016 | 2.00 |
| FR 1415 | 0.77 | SA 1441 | 0.47 | MO 1448 | 0.47 | TU 1537 | 0.68 | WE 1516 | 0.29 | TH 1555 | 0.75 | SA 1638 | 0.35 | SU 1621 | 0.98 |
| 2034 | 2.73 | 2121 | 2.97 | ● 2129 | 2.97 | 2233 | 2.78 | ● 2206 | 3.13 | 2244 | 2.65 | 2319 | 3.08 | 2247 | 2.42 |
| 4 0227 | 1.07 | 19 0314 | 1.07 | 4 0325 | 1.13 | 19 0440 | 1.36 | 4 0405 | 1.01 | 19 0454 | 1.32 | 4 0526 | 0.87 | 19 0504 | 1.27 |
| 0825 | 2.65 | 0903 | 2.49 | 0900 | 2.34 | 1001 | 1.93 | 0943 | 2.24 | 1016 | 1.89 | 1124 | 2.23 | 1050 | 1.93 |
| SA 1441 | 0.70 | SU 1517 | 0.55 | TU 1526 | 0.48 | WE 1612 | 0.82 | 1601 | 0.34 | FR 1623 | 0.88 | SU 1727 | 0.62 | MO 1650 | 1.14 |
| 2104 | 2.81 | ○ 2201 | 2.91 | 2211 | 2.98 | 2311 | 2.66 | 2252 | 3.11 | 2310 | 2.53 | 2310 | 2.28 | | |
| 5 0259 | 1.10 | 20 0358 | 1.24 | 5 0410 | 1.19 | 20 0534 | 1.45 | 5 0456 | 1.05 | 20 0529 | 1.39 | 5 0007 | 2.85 | 20 0536 | 1.31 |
| 0848 | 2.58 | 0938 | 2.27 | 0939 | 2.22 | 1038 | 1.79 | 1035 | 2.15 | 1047 | 1.81 | 0621 | 0.97 | 20 1132 | 1.85 |
| SU 1509 | 0.66 | MO 1553 | 0.69 | 1606 | 0.54 | TH 1646 | 0.97 | 1649 | 0.47 | SA 1651 | 1.02 | 1229 | 2.10 | 1723 | 1.32 |
| ● 2136 | 2.85 | 2242 | 2.80 | 2257 | 2.94 | 2353 | 2.51 | 2341 | 3.01 | 2336 | 2.40 | 1823 | 0.95 | 2337 | 2.13 |
| 6 0335 | 1.16 | 21 0448 | 1.42 | 6 0503 | 1.27 | 21 0700 | 1.51 | 6 0554 | 1.10 | 21 0608 | 1.46 | 6 0103 | 2.56 | 21 0614 | 1.35 |
| 0915 | 2.47 | 1016 | 2.03 | 1028 | 2.07 | 1119 | 1.67 | 1136 | 2.04 | 1124 | 1.73 | 0733 | 1.05 | 21 1228 | 1.77 |
| MO 1542 | 0.68 | TU 1630 | 0.88 | 1653 | 0.68 | FR 1719 | 1.14 | 1742 | 0.67 | SU 1721 | 1.18 | 1356 | 2.02 | WE 1803 | 1.52 |
| 2213 | 2.84 | 2329 | 2.64 | 2353 | 2.85 | | | | | | | 1941 | 1.28 | | |
| 7 0415 | 1.27 | 22 0557 | 1.57 | 7 0611 | 1.36 | 22 0040 | 2.38 | 7 0038 | 2.86 | 22 0007 | 2.27 | 7 0216 | 2.30 | 22 0005 | 1.97 |
| 0946 | 2.32 | 1056 | 1.81 | 1132 | 1.91 | 0904 | 1.48 | 0704 | 1.14 | 0710 | 1.49 | 0913 | 1.04 | 22 0706 | 1.37 |
| TU 1617 | 0.75 | WE 1706 | 1.09 | FR 1747 | 0.85 | SA 1218 | 1.58 | 1252 | 1.95 | MO 1217 | 1.65 | 1559 | 2.10 | TH 1630 | 1.80 |
| 2256 | 2.77 | | | | | 1758 | 1.30 | 1843 | 0.92 | 1756 | 1.36 | 2150 | 1.43 | 1904 | 1.70 |
| 8 0501 | 1.42 | 23 0031 | 2.48 | 8 0102 | 2.76 | 23 0200 | 2.27 | 8 0143 | 2.70 | 23 0045 | 2.14 | 8 0348 | 2.13 | 23 0046 | 1.81 |
| 1023 | 2.13 | 0900 | 1.56 | 0800 | 1.34 | 1009 | 1.40 | 0831 | 1.12 | 0949 | 1.42 | 1030 | 0.94 | 23 0953 | 1.29 |
| WE 1657 | 0.88 | TH 1150 | 1.62 | 1309 | 1.81 | SU 1517 | 1.58 | 1423 | 1.93 | TU 1600 | 1.62 | 1734 | 2.34 | FR 1703 | 2.00 |
| 2351 | 2.66 | 1745 | 1.29 | 1858 | 1.04 | 1851 | 1.45 | 2003 | 1.16 | 1842 | 1.53 | 2327 | 1.36 | 2256 | 1.64 |
| 9 0605 | 1.56 | 24 0222 | 2.39 | 9 0222 | 2.71 | 24 0328 | 2.24 | 9 0255 | 2.55 | 24 0142 | 2.03 | 9 0510 | 2.08 | 24 0413 | 1.77 |
| 1113 | 1.92 | 1031 | 1.44 | 0924 | 1.22 | 1047 | 1.30 | 0948 | 1.01 | 1023 | 1.31 | 1128 | 0.81 | 24 1036 | 1.12 |
| TH 1746 | 1.05 | FR 1508 | 1.57 | 1455 | 1.86 | MO 1637 | 1.71 | 1559 | 2.05 | WE 1657 | 1.79 | 1830 | 2.57 | SA 1733 | 2.23 |
| | | 1850 | 1.46 | 2031 | 1.16 | 2053 | 1.56 | 2145 | 1.30 | 2112 | 1.67 | 2337 | 1.48 | | |
| 10 0114 | 2.58 | 25 0343 | 2.40 | 10 0333 | 2.70 | 25 0422 | 2.24 | 10 0406 | 2.44 | 25 0355 | 1.98 | 10 0032 | 1.23 | 25 0506 | 1.86 |
| 0859 | 1.55 | 1106 | 1.32 | 1023 | 1.06 | 1113 | 1.20 | 1048 | 0.88 | 1049 | 1.19 | 0610 | 2.09 | 25 1116 | 0.93 |
| FR 1252 | 1.74 | SA 1629 | 1.71 | 1617 | 2.03 | TU 1721 | 1.87 | 1727 | 2.25 | 1730 | 1.98 | 1215 | 0.70 | SU 1807 | 2.47 |
| 1900 | 1.21 | 2119 | 1.51 | ● 2201 | 1.19 | ○ 2229 | 1.55 | 2309 | 1.31 | 2254 | 1.61 | 1914 | 2.74 | | |
| 11 0301 | 2.61 | 26 0435 | 2.44 | 11 0435 | 2.70 | 26 0458 | 2.24 | 11 0513 | 2.37 | 26 0444 | 2.00 | 11 0116 | 1.12 | 26 0012 | 1.29 |
| 1007 | 1.37 | 1129 | 1.22 | 1111 | 0.89 | 1133 | 1.10 | 1139 | 0.75 | 1115 | 1.04 | 0657 | 2.10 | 26 0549 | 2.00 |
| SA 1528 | 1.81 | SU 1716 | 1.86 | TU 1728 | 2.24 | WE 1755 | 2.04 | 1829 | 2.48 | FR 1759 | 2.18 | 1257 | 0.63 | MO 1158 | 0.71 |
| 2104 | 1.24 | 2232 | 1.47 | 2313 | 1.16 | 2322 | 1.50 | 2341 | 1.51 | | | 1953 | 2.84 | 1847 | 2.72 |
| 12 0411 | 2.73 | 27 0515 | 2.47 | 12 0532 | 2.68 | 27 0528 | 2.25 | 12 0014 | 1.25 | 27 0523 | 2.04 | 10151 | 1.05 | 27 0049 | 1.09 |
| 1056 | 1.17 | 1151 | 1.13 | 1154 | 0.74 | 1154 | 0.98 | 0611 | 2.31 | 1144 | 0.87 | 0736 | 2.12 | 27 0633 | 2.15 |
| SU 1641 | 2.02 | MO 1751 | 2.01 | WE 1828 | 2.46 | TH 1824 | 2.22 | 1223 | 0.65 | SA 1831 | 2.41 | 1334 | 0.58 | TU 1240 | 0.48 |
| ● 2226 | 1.15 | ○ 2322 | 1.41 | | | | | 1919 | 2.68 | | | 2027 | 2.88 | 1928 | 2.96 |
| 13 0508 | 2.85 | 28 0548 | 2.49 | 13 0010 | 1.12 | 28 0001 | 1.43 | 13 0106 | 1.20 | 28 0021 | 1.37 | 1223 | 1.02 | 28 0128 | 0.89 |
| 1136 | 0.98 | 1212 | 1.05 | 0621 | 2.63 | 0556 | 2.26 | 0659 | 2.25 | 0602 | 2.10 | 0808 | 2.13 | 0717 | 2.31 |
| MO 1739 | 2.25 | TU 1821 | 2.16 | 1234 | 0.62 | FR 1218 | 0.84 | 1304 | 0.58 | SU 1219 | 0.68 | 1408 | 0.57 | WE 1324 | 0.28 |
| 2328 | 1.02 | | | 1918 | 2.66 | 1853 | 2.41 | 2003 | 2.81 | 1906 | 2.64 | 2058 | 2.86 | 2010 | 3.16 |
| 14 0558 | 2.93 | 29 0000 | 1.35 | 14 0100 | 1.09 | 29 0038 | 1.34 | 14 0151 | 1.15 | 29 0100 | 1.21 | 14 0253 | 1.02 | 29 0208 | 0.72 |
| 1214 | 0.79 | 0615 | 2.50 | 0704 | 2.55 | 0626 | 2.28 | 0739 | 2.19 | 0643 | 2.18 | 0836 | 2.13 | 0801 | 2.46 |
| TU 1833 | 2.49 | WE 1233 | 0.96 | 1313 | 0.54 | SA 1246 | 0.69 | 1342 | 0.54 | MO 1257 | 0.49 | 1439 | 0.59 | TH 1408 | 0.14 |
| | | 1850 | 2.31 | 2003 | 2.81 | 1926 | 2.61 | 2041 | 2.88 | 1947 | 2.87 | 2124 | 2.81 | 2051 | 3.29 |
| 15 0020 | 0.92 | 30 0033 | 1.29 | 15 0145 | 1.10 | 30 0114 | 1.24 | 15 0232 | 1.13 | 30 0142 | 1.05 | 15 0321 | 1.05 | 30 0248 | 0.60 |
| 0643 | 2.96 | 0639 | 2.51 | 0742 | 2.45 | 0659 | 2.31 | 0814 | 2.14 | 0725 | 2.27 | 0902 | 2.12 | 0845 | 2.56 |
| WE 1252 | 0.63 | TH 1254 | 0.86 | SA 1349 | 0.50 | SU 1318 | 0.54 | 1417 | 0.54 | TU 1339 | 0.32 | 1507 | 0.65 | FR 1452 | 0.10 |
| 1920 | 2.70 | 1918 | 2.46 | 2043 | 2.89 | 2002 | 2.80 | 2116 | 2.88 | 2029 | 3.07 | 2148 | 2.73 | ● 2131 | 3.31 |
| 31 0103 | 1.24 | | | | | | | | | | | 31 0224 | 0.91 | 31 0329 | 0.54 |
| 0702 | 2.50 | | | | | | | | | | | 0809 | 2.34 | 0929 | 2.59 |
| FR 1318 | 0.75 | | | | | | | | | | | WE 1422 | 0.19 | 1536 | 0.18 |
| 1946 | 2.62 | | | | | | | | | | | 2111 | 3.21 | 2209 | 3.21 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – CAIRNS

2019

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|---------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0411 | 0.57 | 16 0354 | 1.00 | 1 0424 | 0.53 | 16 0345 | 0.79 | 1 0521 | 0.95 | 16 0428 | 0.78 | 1 0541 | 1.14 | 16 0511 | 0.78 |
| 1016 | 2.55 | 16 0952 | 2.22 | 1049 | 2.60 | 16 1006 | 2.42 | 1253 | 2.40 | 1125 | 2.52 | 1350 | 2.43 | 16 1225 | 2.73 |
| SU 1621 | 0.40 | MO 1554 | 1.01 | TU 1650 | 0.95 | WE 1606 | 1.22 | FR 2150 | 1.45 | SA 1735 | 1.51 | SU 2236 | 1.34 | MO 1901 | 1.41 |
| 2248 | 2.99 | 2202 | 2.39 | 2254 | 2.40 | 2143 | 2.18 | 2230 | 1.77 | | | | | | |
| 2 0455 | 0.67 | 17 0420 | 1.03 | 2 0507 | 0.74 | 17 0414 | 0.85 | 2 0026 | 1.52 | 17 0513 | 0.94 | 2 0228 | 1.47 | 17 0000 | 1.75 |
| 1106 | 2.43 | 17 1024 | 2.17 | 1148 | 2.42 | 17 1044 | 2.35 | 0621 | 1.20 | 1238 | 2.44 | 0657 | 1.34 | 17 0612 | 0.98 |
| MO 1708 | 0.72 | TU 1625 | 1.17 | WE 1749 | 1.31 | TH 1646 | 1.38 | 1517 | 2.40 | SU | | MO 1521 | 2.41 | TU 1340 | 2.67 |
| 2331 | 2.68 | 2223 | 2.25 | 2341 | 2.02 | 2206 | 2.00 | 2312 | 1.24 | | | 2313 | 1.21 | 2058 | 1.31 |
| 3 0543 | 0.83 | 18 0450 | 1.08 | 3 0557 | 0.98 | 18 0448 | 0.95 | 3 0409 | 1.55 | 18 0615 | 1.11 | 3 0433 | 1.62 | 18 0205 | 1.72 |
| 1207 | 2.26 | 18 1103 | 2.09 | 1316 | 2.26 | 18 1132 | 2.25 | 0848 | 1.31 | 1429 | 2.46 | 0857 | 1.43 | 18 0734 | 1.15 |
| TU 1803 | 1.11 | WE 1701 | 1.35 | TH 2058 | 1.52 | FR 1735 | 1.55 | 1625 | 2.49 | MO 2205 | 1.33 | TU 1621 | 2.43 | WE 1455 | 2.65 |
| 2244 | 2.08 | | | 2231 | 1.81 | | | 2346 | 1.08 | | | 2330 | 1.11 | 2202 | 1.14 |
| 4 0021 | 2.31 | 19 0523 | 1.15 | 4 0102 | 1.68 | 19 0528 | 1.08 | 4 0505 | 1.73 | 19 0303 | 1.59 | 4 0518 | 1.80 | 19 0344 | 1.87 |
| 0641 | 1.01 | 19 1152 | 2.00 | 0723 | 1.19 | 1246 | 2.17 | 1012 | 1.25 | 0813 | 1.19 | 1017 | 1.41 | 19 0914 | 1.24 |
| WE 1335 | 2.13 | TH 1743 | 1.54 | FR 1604 | 2.35 | SA | | 1712 | 2.56 | TU 1543 | 2.58 | WE 1703 | 2.45 | TH 1600 | 2.66 |
| 1936 | 1.45 | 2301 | 1.89 | 2325 | 1.30 | | | 2244 | 1.13 | | | 2348 | 1.02 | 2250 | 0.95 |
| 5 0138 | 1.98 | 20 0603 | 1.22 | 5 0415 | 1.66 | 20 0624 | 1.21 | 5 0000 | 0.97 | 20 0418 | 1.80 | 5 0551 | 1.97 | 20 0500 | 2.11 |
| 0829 | 1.12 | 1311 | 1.94 | 0945 | 1.18 | 1532 | 2.26 | 0541 | 1.90 | 0951 | 1.12 | 1111 | 1.37 | 20 1038 | 1.23 |
| TH 1618 | 2.23 | FR | | SA 1706 | 2.53 | SU 2255 | 1.41 | 1107 | 1.16 | WE 1637 | 2.71 | 1737 | 2.46 | FR 1658 | 2.65 |
| 2236 | 1.44 | | | 2316 | 1.21 | | | 1749 | 2.61 | 2317 | 0.92 | 2332 | 0.77 | | |
| 6 0354 | 1.84 | 21 0702 | 1.29 | 6 0008 | 1.10 | 21 0352 | 1.55 | 6 0015 | 0.89 | 21 0513 | 2.06 | 6 0007 | 0.93 | 21 0602 | 2.37 |
| 1013 | 1.04 | 21 1626 | 2.10 | 0518 | 1.81 | 0909 | 1.23 | 0612 | 2.05 | 1056 | 1.00 | 0619 | 2.12 | 21 1141 | 1.18 |
| FR 1729 | 2.47 | SA 2327 | 1.54 | SU 1053 | 1.06 | MO 1626 | 2.46 | 1148 | 1.09 | TH 1727 | 2.81 | 1152 | 1.33 | SA 1751 | 2.63 |
| ● | | | | 1751 | 2.65 | 2316 | 1.21 | 1820 | 2.62 | 2353 | 0.71 | 1805 | 2.45 | | |
| 7 0007 | 1.24 | 22 0409 | 1.61 | 7 0026 | 0.97 | 22 0443 | 1.77 | 7 0036 | 0.83 | 22 0605 | 2.32 | 7 0028 | 0.85 | 22 0012 | 0.60 |
| 0517 | 1.90 | 22 0957 | 1.20 | 0600 | 1.96 | 1024 | 1.05 | 0640 | 2.19 | 1151 | 0.90 | 0647 | 2.27 | 22 0655 | 2.62 |
| SA 1116 | 0.91 | SU 1703 | 2.33 | MO 1140 | 0.95 | TU 1712 | 2.67 | 1223 | 1.04 | FR 1812 | 2.86 | 1226 | 1.29 | SU 1235 | 1.14 |
| 1817 | 2.65 | 2336 | 1.35 | 1827 | 2.73 | 2342 | 0.99 | 1847 | 2.62 | | | 1831 | 2.43 | 1838 | 2.57 |
| 8 0042 | 1.09 | 23 0457 | 1.78 | 8 0043 | 0.88 | 23 0528 | 2.01 | 8 0059 | 0.78 | 23 0028 | 0.53 | 8 0049 | 0.77 | 23 0052 | 0.48 |
| 0609 | 2.00 | 23 1051 | 0.99 | 0633 | 2.09 | 1118 | 0.85 | 0707 | 2.30 | 0653 | 2.56 | 0713 | 2.41 | 23 0742 | 2.82 |
| SU 1202 | 0.79 | MO 1742 | 2.57 | TU 1219 | 0.86 | WE 1755 | 2.85 | 1254 | 1.02 | SA 1239 | 0.83 | 1257 | 1.27 | MO 1323 | 1.12 |
| 1857 | 2.78 | | | 1859 | 2.75 | | | 1911 | 2.59 | 1854 | 2.84 | 1852 | 2.41 | 1920 | 2.49 |
| 9 0107 | 0.98 | 24 0001 | 1.14 | 9 0105 | 0.83 | 24 0014 | 0.78 | 9 0121 | 0.74 | 24 0105 | 0.39 | 9 0110 | 0.69 | 24 0129 | 0.40 |
| 0650 | 2.09 | 24 0540 | 1.98 | 0703 | 2.20 | 0614 | 2.26 | 0733 | 2.40 | 0739 | 2.75 | 0740 | 2.55 | 24 0825 | 2.95 |
| MO 1242 | 0.71 | TU 1139 | 0.75 | WE 1252 | 0.81 | TH 1207 | 0.66 | 1322 | 1.02 | SU 1324 | 0.82 | 1325 | 1.24 | TU 1409 | 1.12 |
| 1931 | 2.83 | 1824 | 2.81 | 1927 | 2.75 | 1839 | 3.00 | 1931 | 2.55 | 1931 | 2.77 | 1914 | 2.38 | 1957 | 2.39 |
| 10 0132 | 0.92 | 25 0034 | 0.92 | 10 0129 | 0.80 | 25 0049 | 0.57 | 10 0141 | 0.70 | 25 0142 | 0.30 | 10 0132 | 0.60 | 25 0206 | 0.38 |
| 0723 | 2.16 | 0624 | 2.20 | 0730 | 2.28 | 0658 | 2.50 | 0758 | 2.48 | 0822 | 2.89 | 0808 | 2.68 | 25 0905 | 3.01 |
| TU 1317 | 0.65 | WE 1224 | 0.52 | 1323 | 0.79 | 1252 | 0.53 | 1348 | 1.04 | MO 1408 | 0.86 | 1356 | 1.21 | WE 1453 | 1.15 |
| 2001 | 2.84 | 1906 | 3.03 | 1951 | 2.72 | 1919 | 3.07 | 1949 | 2.50 | 2006 | 2.63 | 1939 | 2.36 | 2032 | 2.28 |
| 11 0159 | 0.89 | 26 0110 | 0.71 | 11 0153 | 0.79 | 26 0125 | 0.40 | 11 0201 | 0.65 | 26 0218 | 0.28 | 11 0158 | 0.51 | 26 0243 | 0.42 |
| 0752 | 2.21 | 0708 | 2.41 | 0756 | 2.34 | 0742 | 2.70 | 0823 | 2.56 | 0903 | 2.95 | 0839 | 2.79 | 26 0943 | 3.00 |
| WE 1348 | 0.64 | TH 1309 | 0.34 | FR 1349 | 0.80 | SA 1335 | 0.47 | 1414 | 1.07 | TU 1453 | 0.97 | 1429 | 1.19 | TH 1537 | 1.22 |
| 2029 | 2.81 | 1947 | 3.18 | 2013 | 2.67 | 1956 | 3.05 | 2006 | 2.44 | 2041 | 2.45 | 2006 | 2.32 | ● 2109 | 2.16 |
| 12 0225 | 0.90 | 27 0147 | 0.53 | 12 0215 | 0.79 | 27 0202 | 0.29 | 12 0224 | 0.61 | 27 0255 | 0.34 | 12 0229 | 0.46 | 27 0321 | 0.52 |
| 0818 | 2.24 | 0751 | 2.59 | 0819 | 2.39 | 0824 | 2.83 | 0851 | 2.63 | 0945 | 2.93 | 0913 | 2.87 | 27 1021 | 2.93 |
| TH 1417 | 0.65 | FR 1351 | 0.23 | 1414 | 0.85 | SU 1418 | 0.52 | 1443 | 1.11 | WE 1539 | 1.12 | 1507 | 1.20 | FR 1622 | 1.31 |
| 2052 | 2.76 | 2025 | 3.25 | 2029 | 2.60 | 2032 | 2.94 | 2027 | 2.36 | ● 2118 | 2.23 | 2035 | 2.25 | 2147 | 2.03 |
| 13 0249 | 0.92 | 28 0225 | 0.41 | 13 0234 | 0.78 | 28 0239 | 0.26 | 13 0249 | 0.58 | 28 0334 | 0.47 | 13 0302 | 0.45 | 28 0359 | 0.67 |
| 0841 | 2.26 | 0834 | 2.72 | 0841 | 2.43 | 0906 | 2.88 | 0921 | 2.67 | 1029 | 2.84 | 0951 | 2.90 | 28 1100 | 2.81 |
| FR 1441 | 0.70 | SA 1434 | 0.23 | 1437 | 0.91 | MO 1502 | 0.66 | 1517 | 1.17 | TH 1630 | 1.30 | 1549 | 1.23 | SA 1711 | 1.41 |
| 2111 | 2.68 | 2102 | 3.20 | 2044 | 2.53 | ● 2105 | 2.74 | 2050 | 2.26 | 2159 | 1.99 | 2109 | 2.16 | 2225 | 1.89 |
| 14 0311 | 0.95 | 29 0304 | 0.36 | 14 0255 | 0.77 | 29 0317 | 0.32 | 14 0318 | 0.60 | 29 0413 | 0.67 | 14 0340 | 0.50 | 29 1141 | 0.85 |
| 0903 | 2.26 | 0916 | 2.77 | 0905 | 2.45 | 0950 | 2.85 | 0955 | 2.66 | 1118 | 2.69 | 1034 | 2.88 | 29 1812 | 1.51 |
| SA 1505 | 0.78 | SU 1517 | 0.36 | MO 1502 | 0.99 | TU 1547 | 0.89 | 1554 | 1.26 | FR 1737 | 1.45 | 1637 | 1.30 | SU 1812 | 1.51 |
| ○ 2126 | 2.60 | ● 2138 | 3.03 | ○ 2100 | 2.44 | 2142 | 2.46 | 2117 | 2.13 | 2244 | 1.75 | 2151 | 2.04 | 2305 | 1.75 |
| 15 0331 | 0.97 | 30 0343 | 0.40 | 15 0318 | 0.77 | 30 0356 | 0.47 | 15 0350 | 0.66 | 30 0455 | 0.90 | 15 0422 | 0.62 | 30 1226 | 2.50 |
| 0925 | 2.25 | 1001 | 2.73 | 0933 | 2.45 | 1037 | 2.73 | 1035 | 2.61 | 1220 | 2.54 | 1124 | 2.81 | 30 2010 | 1.54 |
| SU 1528 | 0.88 | MO 1602 | 0.61 | TU 1532 | 1.09 | WE 1637 | 1.17 | 1639 | 1.38 | SA 2053 | 1.48 | 1734 | 1.38 | MO 2353 | 1.62 |
| 2142 | 2.51 | 2214 | 2.76 | 2121 | 2.33 | 2221 | 2.13 | 2149 | 1.96 | 2346 | 1.55 | | | | |
| | | | | 31 | 0437 | 0.69 | | | | | | | 31 | 0544 | 1.26 |
| | | | | | 1132 | 2.56 | | | | | | | | 1325 | 2.36 |
| | | | | | TH 1742 | 1.44 | | | | | | | | TU 2214 | 1.46 |
| | | | | | 2308 | 1.80 | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, EAST COAST – PORT DOUGLAS

2019

LAT 16° 29' S LONG 145° 28' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | Time | m |
|-----------|-------|------|-----------|------------|
| 1 | 0014 | 0.66 | 16 | 0604 2.22 |
| | 0647 | 2.49 | | 1146 1.44 |
| TU | 1242 | 1.20 | WE | 1731 2.17 |
| | 1829 | 2.34 | | |
| 2 | 0049 | 0.58 | 17 | 0002 0.76 |
| | 0727 | 2.63 | | 0637 2.49 |
| WE | 1327 | 1.18 | TH | 1233 1.30 |
| | 1906 | 2.27 | | 1814 2.25 |
| 3 | 0122 | 0.53 | 18 | 0038 0.55 |
| | 0803 | 2.72 | | 0715 2.75 |
| TH | 1406 | 1.17 | FR | 1318 1.15 |
| | 1940 | 2.21 | | 1857 2.32 |
| 4 | 0153 | 0.51 | 19 | 0118 0.36 |
| | 0836 | 2.77 | | 0756 2.98 |
| FR | 1442 | 1.18 | SA | 1403 1.01 |
| | 2011 | 2.14 | | 1942 2.38 |
| 5 | 0222 | 0.53 | 20 | 0201 0.22 |
| | 0907 | 2.76 | | 0839 3.16 |
| SA | 1517 | 1.21 | SU | 1448 0.91 |
| | 2039 | 2.08 | | 2027 2.42 |
| 6 | 0251 | 0.57 | 21 | 0243 0.14 |
| | 0937 | 2.73 | | 0924 3.26 |
| SU | 1550 | 1.26 | MO | 1534 0.87 |
| | 2105 | 2.01 | | 2113 2.41 |
| 7 | 0317 | 0.65 | 22 | 0328 0.16 |
| | 1006 | 2.66 | | 1008 3.26 |
| MO | 1623 | 1.32 | TU | 1621 0.89 |
| | 2127 | 1.94 | | 2202 2.34 |
| 8 | 0340 | 0.74 | 23 | 0414 0.29 |
| | 1034 | 2.57 | | 1054 3.16 |
| TU | 1656 | 1.40 | WE | 1710 0.96 |
| | 2150 | 1.86 | | 2254 2.23 |
| 9 | 0404 | 0.86 | 24 | 0502 0.52 |
| | 1102 | 2.46 | | 1143 2.96 |
| WE | 1733 | 1.47 | TH | 1805 1.07 |
| | 2217 | 1.77 | | 2353 2.07 |
| 10 | 0432 | 1.00 | 25 | 0555 0.84 |
| | 1134 | 2.35 | | 1238 2.72 |
| TH | 1821 | 1.53 | FR | 1913 1.16 |
| | 2254 | 1.67 | | |
| 11 | 0503 | 1.16 | 26 | 0109 1.94 |
| | 1212 | 2.24 | | 0700 1.17 |
| FR | 2120 | 1.53 | SU | 1347 2.46 |
| | | | | 2049 1.18 |
| 12 | 0001 | 1.57 | 27 | 0309 1.93 |
| | 0541 | 1.34 | | 0846 1.43 |
| SA | 1303 | 2.14 | SU | 1513 2.28 |
| | 2222 | 1.42 | | 2219 1.09 |
| 13 | 0408 | 1.57 | 28 | 0509 2.13 |
| | 0640 | 1.53 | | 1044 1.47 |
| SU | 1430 | 2.07 | MO | 1636 2.19 |
| | 2248 | 1.29 | | 02319 0.96 |
| 14 | 0507 | 1.76 | 29 | 0609 2.37 |
| | 0929 | 1.62 | | 1204 1.39 |
| MO | 1601 | 2.07 | TU | 1738 2.16 |
| | 02306 | 1.14 | | |
| 15 | 0536 | 1.98 | 30 | 0002 0.84 |
| | 1053 | 1.56 | | 0649 2.56 |
| TU | 1649 | 2.11 | WE | 1254 1.30 |
| | 2331 | 0.96 | | 1825 2.16 |
| | | | | |
| 31 | 0040 | 0.75 | | |
| | 0723 | 2.69 | | |
| TH | 1331 | 1.23 | | |
| | 1904 | 2.17 | | |

FEBRUARY

| | Time | m | Time | m |
|-----------|------|------|-----------|------------|
| 1 | 0113 | 0.68 | 16 | 0023 0.66 |
| | 0754 | 2.77 | | 0702 2.86 |
| FR | 1403 | 1.18 | SA | 1313 1.11 |
| | 1937 | 2.18 | | 1852 2.32 |
| 2 | 0144 | 0.63 | 17 | 0106 0.43 |
| | 0824 | 2.81 | | 0743 3.11 |
| SA | 1432 | 1.16 | SU | 1354 0.92 |
| | 2006 | 2.19 | | 1937 2.47 |
| 3 | 0213 | 0.61 | 18 | 0149 0.25 |
| | 0851 | 2.82 | | 0824 3.29 |
| SU | 1500 | 1.15 | MO | 1434 0.78 |
| | 2032 | 2.20 | | 2022 2.58 |
| 4 | 0239 | 0.62 | 19 | 0232 0.15 |
| | 0917 | 2.80 | | 0905 3.38 |
| MO | 1527 | 1.17 | TU | 1515 0.71 |
| | 2056 | 2.19 | | 2105 2.64 |
| 5 | 0303 | 0.65 | 20 | 0315 0.17 |
| | 0940 | 2.76 | | 0946 3.35 |
| TU | 1552 | 1.21 | WE | 1556 0.71 |
| | 2117 | 2.17 | | 2149 2.62 |
| 6 | 0326 | 0.72 | 21 | 0358 0.31 |
| | 1003 | 2.69 | | 1026 3.20 |
| WE | 1616 | 1.26 | TH | 1638 0.79 |
| | 2141 | 2.13 | | 2235 2.51 |
| 7 | 0350 | 0.81 | 22 | 0442 0.58 |
| | 1025 | 2.60 | | 1108 2.94 |
| TH | 1642 | 1.31 | FR | 1723 0.92 |
| | 2209 | 2.06 | | 2326 2.34 |
| 8 | 0418 | 0.95 | 23 | 0530 0.94 |
| | 1051 | 2.49 | | 1153 2.61 |
| FR | 1713 | 1.36 | SU | 1814 1.09 |
| | 2243 | 1.97 | | |
| 9 | 0448 | 1.12 | 24 | 0030 2.15 |
| | 1119 | 2.36 | | 0630 1.33 |
| SU | 1750 | 1.41 | SU | 1248 2.27 |
| | 2326 | 1.87 | | 1925 1.25 |
| 10 | 0522 | 1.32 | 25 | 0232 2.05 |
| | 1150 | 2.21 | | 0836 1.61 |
| SU | 1837 | 1.45 | MO | 1424 1.99 |
| | | | | 2129 1.28 |
| 11 | 0033 | 1.77 | 26 | 0505 2.23 |
| | 0604 | 1.53 | | 1126 1.54 |
| MO | 1228 | 2.06 | TU | 1630 1.93 |
| | 2022 | 1.45 | | 02255 1.17 |
| 12 | 0413 | 1.81 | 27 | 0602 2.44 |
| | 0744 | 1.73 | | 1228 1.39 |
| TU | 1352 | 1.93 | WE | 1737 1.98 |
| | 2208 | 1.31 | | 2346 1.05 |
| 13 | 0508 | 2.05 | 28 | 0637 2.60 |
| | 1049 | 1.67 | | 1258 1.26 |
| WE | 1618 | 1.94 | TH | 1821 2.06 |
| | 2256 | 1.12 | | |
| 14 | 0544 | 2.31 | | |
| | 1148 | 1.50 | | |
| TH | 1716 | 2.03 | | |
| | 2339 | 0.90 | | |
| 15 | 0621 | 2.59 | | |
| | 1231 | 1.31 | | |
| FR | 1805 | 2.17 | | |
| | | | | |
| 31 | 0040 | 0.75 | | |
| | 0723 | 2.69 | | |
| TH | 1331 | 1.23 | | |
| | 1904 | 2.17 | | |

MARCH

| | Time | m | Time | m |
|-----------|------|------|-----------|------------|
| 1 | 0024 | 0.93 | 16 | 0603 2.70 |
| | 0706 | 2.70 | | 1226 1.20 |
| FR | 1321 | 1.18 | SA | 1802 2.14 |
| | 1856 | 2.14 | | |
| 2 | 0057 | 0.84 | 17 | 0008 0.76 |
| | 0733 | 2.77 | | 0644 2.95 |
| SA | 1345 | 1.12 | SU | 1301 0.98 |
| | 1925 | 2.21 | | 1847 2.35 |
| 3 | 0127 | 0.77 | 18 | 0052 0.53 |
| | 0759 | 2.81 | | 0724 3.16 |
| SU | 1410 | 1.08 | MO | 1337 0.78 |
| | 1953 | 2.28 | | 1930 2.56 |
| 4 | 0154 | 0.72 | 19 | 0135 0.35 |
| | 0824 | 2.83 | | 0803 3.30 |
| MO | 1434 | 1.05 | TU | 1414 0.63 |
| | 2017 | 2.33 | | 2012 2.72 |
| 5 | 0220 | 0.70 | 20 | 0217 0.27 |
| | 0848 | 2.82 | | 0841 3.33 |
| TU | 1456 | 1.05 | WE | 1451 0.55 |
| | 2040 | 2.36 | | 2052 2.81 |
| 6 | 0243 | 0.71 | 21 | 0258 0.32 |
| | 0908 | 2.78 | | 0918 3.24 |
| WE | 1518 | 1.05 | TH | 1528 0.54 |
| | 2102 | 2.38 | | 2133 2.81 |
| 7 | 0306 | 0.76 | 22 | 0339 0.49 |
| | 0928 | 2.73 | | 0954 3.04 |
| TH | 1540 | 1.06 | FR | 1606 0.62 |
| | 2217 | 2.37 | | 2216 2.71 |
| 8 | 0331 | 0.84 | 23 | 0422 0.77 |
| | 0949 | 2.65 | | 1032 2.75 |
| FR | 1604 | 1.08 | SU | 1646 0.77 |
| | 2156 | 2.33 | | 2303 2.54 |
| 9 | 0400 | 0.97 | 24 | 0509 1.12 |
| | 1013 | 2.53 | | 1111 2.40 |
| SU | 1632 | 1.11 | SU | 1727 0.98 |
| | 2229 | 2.25 | | |
| 10 | 0432 | 1.15 | 25 | 0000 2.33 |
| | 1037 | 2.38 | | 0609 1.48 |
| SU | 1704 | 1.18 | MO | 1154 2.04 |
| | 2308 | 2.15 | | 1816 1.20 |
| 11 | 0508 | 1.36 | 26 | 0147 2.17 |
| | 1102 | 2.20 | | 0934 1.66 |
| MO | 1740 | 1.25 | TU | 1312 1.74 |
| | | | | 1953 1.38 |
| 12 | 0002 | 2.04 | 27 | 0430 2.29 |
| | 0555 | 1.58 | | 1158 1.46 |
| TU | 1128 | 2.01 | WE | 1628 1.71 |
| | 1827 | 1.34 | | 2210 1.35 |
| 13 | 0201 | 1.98 | 28 | 0529 2.44 |
| | 0744 | 1.77 | | 1230 1.31 |
| WE | 1207 | 1.82 | TH | 1732 1.83 |
| | 2031 | 1.38 | | 02314 1.24 |
| 14 | 0432 | 2.18 | 29 | 0605 2.56 |
| | 1117 | 1.62 | | 1243 1.20 |
| TH | 1609 | 1.78 | FR | 1809 1.97 |
| | 2223 | 1.23 | | 2357 1.12 |
| 15 | 0521 | 2.43 | 30 | 0635 2.64 |
| | 1154 | 1.41 | | 1258 1.11 |
| FR | 1713 | 1.93 | SU | 1839 2.09 |
| | 2320 | 1.00 | | |
| 31 | 0031 | 1.01 | | |
| | 0702 | 2.69 | | |
| SU | 1318 | 1.04 | | |
| | 1906 | 2.21 | | |

APRIL

| | Time | m | Time | m |
|----------|------|------|-----------|-----------|
| 1 | 0101 | 0.93 | 16 | 0036 0.66 |
| | 0727 | 2.73 | | 0700 3.08 |
| MO | 1340 | 0.99 | TU | 1316 0.65 |
| | 1932 | 2.31 | | 1920 2.60 |
| 2 | 0128 | 0.87 | 17 | 0118 0.54 |
| | 0751 | 2.75 | | 0738 3.13 |
| TU | 1402 | 0.94 | WE | 1351 0.51 |
| | 1956 | 2.39 | | 2000 2.77 |
| 3 | 0154 | 0.84 | 18 | 0200 0.51 |
| | 0812 | 2.74 | | 0814 3.09 |
| WE | 1423 | 0.90 | TH | 1426 0.43 |
| | 2020 | 2.46 | | 2039 2.86 |
| 4 | 0217 | 0.83 | 19 | 0241 0.58 |
| | 0832 | 2.72 | | 0848 2.96 |
| TH | 1443 | 0.86 | | |

AUSTRALIA, EAST COAST – PORT DOUGLAS

2019

LAT 16° 29' S LONG 145° 28' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | |
|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|-----------|--------|------|------|
| 1 | 0057 | 1.05 | 16 | 0104 | 0.79 | 1 | 0130 | 1.11 | 16 | 0229 | 1.05 | 1 | 0156 | 1.09 | |
| | 0711 | 2.58 | | 0713 | 2.82 | | 0719 | 2.35 | | 0808 | 2.24 | | 0731 | 2.17 | |
| WE | 1328 | 0.85 | TH | 1328 | 0.45 | SA | 1341 | 0.57 | SU | 1421 | 0.42 | MO | 1354 | 0.37 | |
| | 1933 | 2.38 | | 1951 | 2.74 | | 2009 | 2.61 | | 2104 | 2.79 | | 2034 | 2.81 | |
| 2 | 0125 | 1.01 | 17 | 0147 | 0.80 | 2 | 0206 | 1.08 | 17 | 0312 | 1.10 | 2 | 0240 | 1.02 | |
| | 0732 | 2.58 | | 0749 | 2.73 | | 0749 | 2.33 | | 0843 | 2.12 | | 0813 | 2.16 | |
| TH | 1349 | 0.77 | FR | 1403 | 0.39 | SU | 1412 | 0.48 | MO | 1456 | 0.47 | TU | 1434 | 0.30 | |
| | 1958 | 2.49 | | 2029 | 2.83 | | 2044 | 2.73 | | ○ 2141 | 2.75 | | 2116 | 2.91 | |
| 3 | 0152 | 0.98 | 18 | 0229 | 0.87 | 3 | 0246 | 1.07 | 18 | 0354 | 1.17 | 3 | 0326 | 0.98 | |
| | 0754 | 2.56 | | 0823 | 2.58 | | 0822 | 2.26 | | 0918 | 1.98 | | 0857 | 2.13 | |
| FR | 1411 | 0.69 | SA | 1437 | 0.39 | MO | 1446 | 0.44 | TU | 1531 | 0.57 | WE | 1517 | 0.28 | |
| | 2026 | 2.59 | | 2109 | 2.85 | | ● 2124 | 2.79 | | 2219 | 2.67 | | ● 2202 | 2.95 | |
| 4 | 0222 | 0.99 | 19 | 0312 | 0.99 | 4 | 0329 | 1.10 | 19 | 0440 | 1.26 | 4 | 0416 | 0.99 | |
| | 0817 | 2.51 | | 0857 | 2.39 | | 0859 | 2.17 | | 0954 | 1.85 | | 0946 | 2.06 | |
| SA | 1436 | 0.63 | SU | 1512 | 0.47 | TU | 1524 | 0.45 | WE | 1604 | 0.71 | TH | 1603 | 0.34 | |
| | 2057 | 2.66 | | ○ 2149 | 2.79 | | 2207 | 2.80 | | 2258 | 2.54 | | 2250 | 2.92 | |
| 5 | 0256 | 1.03 | 20 | 0357 | 1.15 | 5 | 0418 | 1.16 | 20 | 0531 | 1.35 | 5 | 0509 | 1.02 | |
| | 0843 | 2.43 | | 0933 | 2.17 | | 0940 | 2.03 | | 1028 | 1.72 | | 1040 | 1.97 | |
| SU | 1505 | 0.61 | MO | 1547 | 0.60 | WE | 1606 | 0.54 | TU | 1635 | 0.86 | FR | 1652 | 0.48 | |
| | ● 2131 | 2.68 | | 2231 | 2.68 | | 2257 | 2.75 | | 2339 | 2.41 | | 2343 | 2.83 | |
| 6 | 0333 | 1.11 | 21 | 0448 | 1.32 | 6 | 0516 | 1.25 | 21 | 0636 | 1.42 | 6 | 0609 | 1.07 | |
| | 0912 | 2.31 | | 1009 | 1.94 | | 1031 | 1.88 | | 1106 | 1.60 | | 1144 | 1.87 | |
| MO | 1538 | 0.64 | TU | 1622 | 0.78 | TH | 1654 | 0.68 | FR | 1704 | 1.02 | SA | 1746 | 0.68 | |
| | 2210 | 2.65 | | 2318 | 2.52 | | 2357 | 2.66 | | | | | 2358 | 2.18 | |
| 7 | 0416 | 1.24 | 22 | 0556 | 1.47 | 7 | 0638 | 1.31 | 22 | 0024 | 2.27 | 7 | 0041 | 2.69 | |
| | 0943 | 2.14 | | 1045 | 1.72 | | 1143 | 1.73 | | 0829 | 1.42 | | 0725 | 1.09 | |
| TU | 1613 | 0.73 | WE | 1655 | 0.98 | FR | 1752 | 0.85 | SA | 1157 | 1.51 | SU | 1301 | 1.79 | |
| | 2256 | 2.58 | | | | | | | | 1737 | 1.18 | | 1850 | 0.91 | |
| 8 | 0506 | 1.39 | 23 | 0017 | 2.36 | 8 | 0111 | 2.59 | 23 | 0130 | 2.16 | 8 | 0149 | 2.55 | |
| | 1021 | 1.94 | | 0835 | 1.50 | | 0829 | 1.26 | | 0955 | 1.35 | | 0851 | 1.04 | |
| WE | 1654 | 0.87 | TH | 1130 | 1.54 | SA | 1326 | 1.66 | SU | 1416 | 1.46 | MO | 1436 | 1.80 | |
| | 2356 | 2.47 | | 1727 | 1.17 | | 1909 | 1.02 | | 1827 | 1.33 | | 2015 | 1.12 | |
| 9 | 0626 | 1.52 | 24 | 0201 | 2.26 | 9 | 0232 | 2.56 | 24 | 0304 | 2.11 | 9 | 0302 | 2.42 | |
| | 1110 | 1.74 | | 1048 | 1.39 | | 0944 | 1.13 | | 1042 | 1.26 | | 1000 | 0.93 | |
| TH | 1746 | 1.04 | FR | 1424 | 1.45 | SU | 1510 | 1.74 | MO | 1618 | 1.56 | TU | 1612 | 1.94 | |
| | | | | 1817 | 1.34 | | 2045 | 1.11 | | 2022 | 1.45 | | 2152 | 1.22 | |
| 10 | 0132 | 2.41 | 25 | 0327 | 2.25 | 10 | 0340 | 2.57 | 25 | 0404 | 2.10 | 10 | 0411 | 2.33 | |
| | 0927 | 1.44 | | 1115 | 1.29 | | 1037 | 0.97 | | 1110 | 1.16 | | 1056 | 0.81 | |
| FR | 1327 | 1.59 | SA | 1612 | 1.55 | | MO | 1628 | | TU | 1714 | 1.72 | | 1726 | 2.15 |
| | 1916 | 1.18 | | 2052 | 1.43 | | ● 2209 | 1.12 | | ○ 2208 | 1.47 | | 2314 | 1.22 | |
| 11 | 0313 | 2.48 | 26 | 0423 | 2.27 | 11 | 0439 | 2.58 | 26 | 0444 | 2.10 | 11 | 0511 | 2.26 | |
| | 1031 | 1.27 | | 1132 | 1.19 | | 1120 | 0.82 | | 1132 | 1.05 | | 1142 | 0.69 | |
| SA | 1544 | 1.70 | SU | 1708 | 1.70 | | 1729 | 2.14 | | WE | 1749 | 1.89 | TH | 1821 | 2.36 |
| | 2117 | 1.18 | | 2216 | 1.40 | | 2315 | 1.08 | | 2311 | 1.43 | | 2344 | 1.44 | |
| 12 | 0418 | 2.61 | 27 | 0505 | 2.31 | 12 | 0529 | 2.57 | 27 | 0517 | 2.11 | 12 | 0019 | 1.17 | |
| | 1113 | 1.08 | | 1151 | 1.10 | | 1158 | 0.67 | | 1153 | 0.93 | | 0603 | 2.20 | |
| SU | 1651 | 1.90 | MO | 1745 | 1.85 | | WE | 1820 | | | 1818 | 2.07 | | 1224 | 0.59 |
| | ● 2232 | 1.07 | | ○ 2310 | 1.34 | | | | | 2356 | 1.36 | | 1906 | 2.54 | |
| 13 | 0509 | 2.73 | 28 | 0537 | 2.33 | 13 | 0012 | 1.04 | 28 | 0546 | 2.12 | 13 | 0110 | 1.12 | |
| | 1146 | 0.89 | | 1212 | 1.01 | | 0614 | 2.53 | | 1216 | 0.79 | | 0648 | 2.15 | |
| MO | 1743 | 2.14 | TU | 1815 | 2.00 | | 1236 | 0.55 | | FR | 1846 | 2.26 | SA | 1302 | 0.51 |
| | 2331 | 0.94 | | 2351 | 1.28 | | 1906 | 2.54 | | | | | 1947 | 2.66 | |
| 14 | 0554 | 2.81 | 29 | 0605 | 2.35 | 14 | 0101 | 1.02 | 29 | 0036 | 1.28 | 14 | 0154 | 1.08 | |
| | 1220 | 0.72 | | 1231 | 0.91 | | 0655 | 2.45 | | 0618 | 2.14 | | 0728 | 2.10 | |
| TU | 1828 | 2.38 | WE | 1842 | 2.16 | | FR | 1311 | | SA | 1243 | 0.64 | SU | 1338 | 0.47 |
| | | | | | | | | 1947 | 2.68 | | 1918 | 2.46 | | 2023 | 2.73 |
| 15 | 0020 | 0.84 | 30 | 0025 | 1.22 | 15 | 0146 | 1.02 | 30 | 0116 | 1.18 | 15 | 0232 | 1.06 | |
| | 0636 | 2.85 | | 0628 | 2.36 | | 0732 | 2.36 | | 0653 | 2.16 | | 0804 | 2.05 | |
| WE | 1254 | 0.57 | TH | 1252 | 0.80 | | SA | 1347 | | SU | 1316 | 0.49 | MO | 1413 | 0.46 |
| | 1910 | 2.58 | | 1909 | 2.31 | | 2027 | 2.76 | | 1954 | 2.65 | | 2058 | 2.75 | |
| 31 | 0057 | 1.16 | | | | | | | | | | 31 | 0232 | 0.88 | |
| | 0652 | 2.36 | | | | | | | | | | | 0808 | 2.18 | |
| FR | 1314 | 0.68 | | | | | | | | | | | WE | 1424 | 0.17 |
| | 1937 | 2.47 | | | | | | | | | | | 2103 | 3.05 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – PORT DOUGLAS

2019

LAT 16° 29' S LONG 145° 28' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-----------|
| Time | m | Time | m | Time | m | Time | m | | | |
| 1 0414 0.55 | 16 0350 0.90 | 1 0423 0.49 | 16 0339 0.73 | 1 0516 0.87 | 16 0421 0.78 | 1 0530 1.04 | 16 0511 0.81 | 2 0144 1.38 | 17 0017 1.59 | 2 0144 1.38 | 17 0017 1.59 | 2 0530 1.04 | 16 0511 0.81 | 2 0144 1.38 | 17 0017 1.59 | | | |
| 1013 2.38 | 16 0945 2.11 | 1044 2.46 | 16 1000 2.27 | 1244 2.28 | 16 1127 2.34 | 1333 2.31 | 16 1231 2.57 | 0638 1.25 | 17 0617 1.00 | 0638 1.25 | 17 0617 1.00 | 1333 2.31 | 16 1231 2.57 | 0638 1.25 | 17 0617 1.00 | | | |
| SU 1620 0.38 | MO 1547 0.89 | TU 1649 0.90 | WE 1602 1.15 | FR 2140 1.38 | SA 1751 1.49 | SU 2233 1.31 | MO 1949 1.35 | 1244 2.28 | 16 1127 2.34 | 1751 1.49 | 2217 1.61 | 2233 1.31 | MO 1949 1.35 | 1244 2.28 | 16 1127 2.34 | | | |
| 2244 2.83 | 2154 2.28 | 2249 2.27 | 2136 2.04 | 2310 1.19 | | | | 2140 1.38 | 16 2217 1.61 | | | | | 2140 1.38 | 16 2217 1.61 | | | |
| 2 0458 0.65 | 17 0416 0.94 | 2 0506 0.69 | 17 0407 0.80 | 2 0013 1.44 | 17 0506 0.94 | 2 0144 1.38 | 17 0017 1.59 | 2 0457 1.59 | 19 0331 1.49 | 4 0509 1.66 | 19 0402 1.78 | 5 0544 1.83 | 20 0508 2.03 | 6 0007 0.91 | 21 0559 2.29 | | | |
| 1105 2.27 | 17 1017 2.04 | 1142 2.28 | 1039 2.19 | 0618 1.11 | 1252 2.28 | 0638 1.25 | 17 0617 1.00 | 1002 1.20 | 19 0837 1.17 | 1002 1.36 | 19 0928 1.20 | 1101 1.32 | 20 1042 1.17 | 0613 1.99 | 21 1143 1.12 | | | |
| MO 1708 0.70 | TU 1618 1.06 | WE 1751 1.24 | TH 1642 1.33 | SA 1502 2.27 | SU | 1607 2.28 | WE 1505 2.52 | 1751 1.49 | 2234 1.22 | 1553 2.46 | 2301 1.04 | 1653 2.30 | 1606 2.54 | 1606 2.30 | 1606 2.54 | | | |
| 2328 2.52 | 2215 2.12 | 2336 1.90 | 2156 1.86 | 2310 1.19 | | | | 1702 2.40 | TU 2303 1.04 | 2307 2.31 | 2347 1.00 | 2347 1.00 | 2301 0.88 | | | | | |
| 3 0546 0.79 | 18 0444 1.00 | 3 0557 0.91 | 18 0439 0.91 | 3 0342 1.43 | 18 0618 1.11 | 3 0834 1.36 | 18 0749 1.15 | 3 0409 1.49 | 18 0225 1.60 | 4 0509 1.66 | 19 0402 1.78 | 5 1101 1.32 | 20 1042 1.17 | 6 0613 1.99 | 21 1143 1.12 | | | |
| 1206 2.11 | 1056 1.95 | 1318 2.13 | 1130 2.08 | 0830 1.24 | 1449 2.33 | 0602 1.28 | WE 1505 2.52 | 1614 2.34 | MO 2234 1.22 | 1553 2.46 | 2303 1.04 | 2307 2.31 | 1727 2.31 | FR 1659 2.55 | 1727 2.31 | FR 1659 2.55 | | |
| TU 1805 1.07 | WE 1653 1.26 | TH 2058 1.43 | FR 1735 1.52 | 2209 1.66 | | | | 1739 2.44 | ○ 2329 0.85 | 2329 0.85 | | | 1756 2.31 | 1756 2.31 | | | | |
| 2235 1.95 | | | | | | | | | | | | | | | | | | |
| 4 0019 2.17 | 19 0517 1.08 | 4 0057 1.58 | 19 0517 1.05 | 4 0457 1.59 | 19 0331 1.49 | 4 0509 1.66 | 19 0402 1.78 | 5 0402 1.55 | 20 0624 1.19 | 6 0015 0.87 | 21 0522 1.96 | 7 0026 0.82 | 22 0014 0.55 | 8 0046 0.73 | 23 0050 0.42 | | | |
| 0649 0.95 | 1146 1.85 | 0726 1.11 | 1303 2.01 | 1002 1.20 | 0837 1.17 | 0640 2.14 | 22 0644 2.52 | 0937 1.11 | 1547 2.15 | 0603 1.91 | 1101 0.95 | 1220 1.24 | SU 1237 1.07 | 0706 2.28 | 23 0727 2.72 | | | |
| WE 1342 1.99 | TH 1736 1.47 | FR 1554 2.22 | SA | 1058 1.12 | WE 1643 2.59 | 1252 2.30 | WE 1325 1.04 | 1727 2.24 | 2336 1.29 | 1141 1.05 | 1727 2.69 | 1821 2.30 | 1830 2.49 | 1252 2.11 | MO 1325 1.04 | 1252 2.11 | MO 1325 1.04 | |
| 1951 1.77 | 2248 1.77 | 2320 1.23 | | 1739 2.44 | ○ 2329 0.85 | 1809 2.47 | | 1816 2.55 | 2356 0.92 | 1809 2.47 | 2359 0.66 | | | 1843 2.28 | 1911 2.42 | 1843 2.28 | 1911 2.42 | |
| 5 0140 1.86 | 20 0557 1.17 | 5 0402 1.55 | 20 0624 1.19 | 5 0000 0.95 | 20 0435 1.71 | 6 0007 0.91 | 21 0559 2.29 | 0937 1.11 | 1547 2.15 | 0603 1.91 | 1101 0.95 | 0613 1.99 | 21 1143 1.12 | 1101 1.32 | 20 1042 1.17 | 1101 1.32 | 20 1042 1.17 | |
| 0835 1.03 | 1531 1.79 | 0937 1.11 | 1547 2.15 | 0534 1.76 | 1002 1.07 | 1101 1.32 | 20 1042 1.17 | 1659 2.37 | SU 2336 1.29 | 1058 1.12 | WE 1643 2.59 | 1644 1.28 | SA 1747 2.53 | 1101 1.32 | 20 1042 1.17 | 1101 1.32 | 20 1042 1.17 | |
| TH 1616 2.12 | FR | | | 1739 2.44 | ○ 2329 0.85 | 1809 2.47 | | 1816 2.55 | 2356 0.92 | 1809 2.47 | 2359 0.66 | 1843 2.28 | 1911 2.42 | | | | | |
| 2249 1.34 | | | | | | | | | | | | | | | | | | |
| 6 0354 1.74 | 21 0715 1.24 | 6 0005 1.05 | 21 0413 1.45 | 6 0015 0.87 | 21 0522 1.96 | 6 0613 1.99 | 21 1143 1.12 | 0511 1.68 | 0925 1.17 | 0603 1.91 | 1101 0.95 | 0613 1.99 | 21 1143 1.12 | 0613 1.99 | 21 1143 1.12 | 0613 1.99 | 21 1143 1.12 | |
| 1013 0.97 | 1632 1.99 | 1048 1.01 | MO 1635 2.34 | 1141 1.05 | TH 1727 2.69 | 1220 1.24 | SU 1237 1.07 | 1743 2.48 | ○ 2339 1.11 | 1743 2.48 | 1809 2.47 | 1821 2.30 | 1830 2.49 | 1821 2.30 | 1830 2.49 | 1821 2.30 | 1830 2.49 | |
| FR 1727 2.33 | SA | | | | | | | | | | | | | | | | | |
| ○ | | | | | | | | | | | | | | | | | | |
| 7 0006 1.17 | 22 0045 1.42 | 7 0026 0.94 | 22 0457 1.66 | 7 0035 0.80 | 22 0605 2.22 | 7 0640 2.14 | 22 0644 2.52 | 0511 1.78 | 0925 1.17 | 0631 2.05 | 1151 0.84 | 0640 2.14 | 22 0644 2.52 | 0640 2.14 | 22 0644 2.52 | 0640 2.14 | 22 0644 2.52 | |
| 0511 1.78 | 1711 2.21 | 1136 0.90 | TU 1716 2.54 | 1216 0.99 | FR 1807 2.75 | 1220 1.24 | SU 1237 1.07 | 1812 2.49 | ○ 2339 1.11 | 1816 2.55 | 2356 0.92 | 1835 2.47 | 1821 2.30 | 1830 2.49 | 1821 2.30 | 1830 2.49 | 1821 2.30 | 1830 2.49 |
| SA 1115 0.86 | SU 1003 1.13 | 1245 0.76 | TH 1208 0.61 | 1315 0.95 | SU 1323 0.75 | 1325 2.11 | MO 1325 1.04 | 1812 2.49 | ○ 2339 1.11 | 1912 2.60 | 1833 2.87 | 1920 2.43 | 1923 2.68 | 1906 2.26 | 1410 1.04 | 1906 2.26 | 1410 1.04 | |
| 1812 2.49 | ○ 1711 2.21 | 1245 0.76 | TH 1208 0.61 | 1315 0.95 | SU 1323 0.75 | 1325 2.11 | MO 1325 1.04 | 1812 2.49 | ○ 2339 1.11 | 1912 2.60 | 1833 2.87 | 1920 2.43 | 1923 2.68 | 1906 2.26 | 1410 1.04 | 1906 2.26 | 1410 1.04 | |
| 9 0107 0.94 | 24 0017 1.07 | 9 0104 0.80 | 24 0021 0.72 | 9 0117 0.69 | 24 0105 0.34 | 9 0732 2.42 | 24 0808 2.85 | 0639 1.95 | 0543 1.84 | 0724 2.27 | 0728 2.66 | 0732 2.42 | 24 0808 2.85 | 0732 2.42 | 24 0808 2.85 | 0732 2.42 | 24 0808 2.85 | |
| 0639 1.95 | 1143 0.70 | 0652 2.07 | 0615 2.14 | 0724 2.27 | 0728 2.66 | 1252 2.11 | WE 1325 1.04 | 1238 0.66 | 1043 0.66 | 0615 2.14 | 0615 2.14 | 1323 1.18 | 1410 1.04 | 1323 1.18 | 1410 1.04 | 1323 1.18 | 1410 1.04 | |
| MO 1238 0.66 | TU 1143 0.70 | 1245 0.76 | TH 1208 0.61 | 1315 0.95 | SU 1323 0.75 | 1325 2.11 | MO 1325 1.04 | 1916 2.66 | 1822 2.68 | 1912 2.60 | 1833 2.87 | 1920 2.43 | 1923 2.68 | 1906 2.26 | 1410 1.04 | 1906 2.26 | 1410 1.04 | |
| 1916 2.66 | | | | | | | | | | | | | | | | | | |
| 10 0132 0.88 | 25 0043 0.87 | 10 0126 0.76 | 25 0053 0.53 | 10 0137 0.64 | 25 0139 0.24 | 10 0759 2.55 | 25 0846 2.92 | 0712 2.03 | 0624 2.06 | 0749 2.37 | 0808 2.80 | 0759 2.55 | 25 0846 2.92 | 0759 2.55 | 25 0846 2.92 | 0759 2.55 | 25 0846 2.92 | |
| 0712 2.03 | TU 1311 0.60 | 0720 2.16 | 0654 2.38 | 0720 2.16 | FR 1252 0.48 | 1311 0.60 | WE 1226 0.48 | WE 1226 0.48 | 0720 2.16 | 0654 2.38 | 1252 0.48 | 1325 2.11 | 1325 2.11 | 1410 1.04 | 1325 2.11 | 1410 1.04 | 1325 2.11 | 1410 1.04 |
| TU 1311 0.60 | WE 1945 2.68 | 1315 0.72 | FR 1252 0.48 | 1315 0.72 | FR 1252 0.48 | 1315 0.72 | FR 1252 0.48 | 1945 2.68 | 1900 2.89 | 1937 2.59 | 1911 2.95 | 1937 2.59 | 1911 2.95 | 1906 2.26 | 1410 1.04 | 1906 2.26 | 1410 1.04 | |
| WE 1945 2.68 | | | | | | | | | | | | | | | | | | |
| 11 0156 0.85 | 26 0116 0.67 | 11 0149 0.73 | 26 0127 0.36 | 11 0156 0.59 | 26 0215 0.22 | 11 0831 2.66 | 26 0848 2.86 | 0741 2.10 | 0706 2.27 | 0815 2.44 | 0848 2.86 | 0831 2.66 | 26 0848 2.86 | 0831 2.66 | 26 0848 2.86 | 0831 2.66 | 26 0848 2.86 | |
| 0741 2.10 | 1938 3.04 | 1342 0.72 | SA 1334 0.42 | 1342 0.72 | SA 1334 0.42 | 1342 0.72 | SA 1334 0.42 | 2011 2.67 | 1938 3.04 | 1958 2.55 | 1948 2.94 | 1958 2.32 | 2035 2.37 | 2035 2.37 | 1537 1.13 | 2102 2.10 | 2102 2.10 | |
| WE 1341 0.57 | TH 1309 0.29 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 2057 2.59 | 2053 3.06 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 1537 1.13 | 2102 2.10 | 2102 2.10 | |
| 2057 2.59 | | | | | | | | | | | | | | | | | | |
| 12 0221 0.83 | 27 0151 0.49 | 12 0210 0.72 | 27 0201 0.25 | 12 0218 0.54 | 27 0251 0.27 | 12 0906 2.72 | 27 0931 2.84 | 0808 2.14 | 0747 2.46 | 0815 2.72 | 0931 2.84 | 0906 2.72 | 27 0931 2.84 | 0906 2.72 | 27 0931 2.84 | 0906 2.72 | 27 0931 2.84 | |
| 0808 2.14 | 2016 3.11 | 1406 0.75 | SU 1417 0.46 | 1406 0.75 | SU 1417 0.46 | 1406 0.75 | SU 1417 0.46 | 2035 2.50 | 2016 3.11 | 2017 2.50 | 2024 2.83 | 2017 2.50 | 2024 2.83 | 2017 2.50 | 1521 1.17 | 2139 1.97 | 2139 1.97 | |
| TH 1408 0.57 | FR 1351 0.19 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 2057 2.59 | 2053 3.06 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 1521 1.17 | 2139 1.97 | 2139 1.97 | |
| 2057 2.59 | | | | | | | | | | | | | | | | | | |
| 13 0245 0.84 | 28 0227 0.38 | 13 0230 0.70 | 28 0237 0.22 | 13 0244 0.53 | 28 0328 0.40 | 13 0946 2.74 | 28 1044 2.72 | 0833 2.17 | 0829 2.58 | 0857 2.77 | 1015 2.74 | 0946 2.74 | 28 1044 2.72 | 0946 2.74 | 28 1044 2.72 | 0946 2.74 | 28 1044 2.72 | |
| 0832 2.17 | 2053 3.06 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 1430 0.80 | MO 1500 0.61 | 2057 2.59 | 2053 3.06 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 2059 2.63 | 2035 2.43 | 1515 1.22 | 2216 | | |

AUSTRALIA, EAST COAST – LEGGATT IS.

2019

LAT 14° 32' S LONG 144° 51' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0033 | 0.76 | 16 0634 | 2.28 | 1 0137 | 0.73 | 16 0045 | 0.71 |
| 0704 | 2.55 | 1214 | 1.53 | 0815 | 2.84 | 0721 | 2.94 |
| TU 1300 | 1.24 | WE 1741 | 2.20 | FR 1429 | 1.18 | SA 1338 | 1.13 |
| 1843 | 2.40 | 1953 | 2.23 | 1902 | 2.38 | | |
| 2 0109 | 0.66 | 17 0025 | 0.85 | 2 0206 | 0.69 | 17 0125 | 0.46 |
| 0744 | 2.69 | 0703 | 2.53 | 0844 | 2.86 | 0757 | 3.18 |
| WE 1346 | 1.20 | TH 1258 | 1.37 | SA 1501 | 1.16 | SU 1416 | 0.94 |
| 1921 | 2.34 | 1823 | 2.28 | 2020 | 2.22 | 1944 | 2.54 |
| 3 0142 | 0.59 | 18 0058 | 0.63 | 3 0232 | 0.68 | 18 0205 | 0.26 |
| 0820 | 2.77 | 0735 | 2.78 | 0910 | 2.84 | 0835 | 3.35 |
| TH 1428 | 1.18 | FR 1340 | 1.20 | SU 1529 | 1.18 | MO 1454 | 0.80 |
| 1954 | 2.26 | 1905 | 2.36 | 2042 | 2.20 | 2026 | 2.66 |
| 4 0213 | 0.57 | 19 0134 | 0.41 | 4 0253 | 0.70 | 19 0245 | 0.16 |
| 0854 | 2.80 | 0811 | 3.01 | 0933 | 2.79 | 0914 | 3.43 |
| FR 1507 | 1.19 | SA 1422 | 1.05 | MO 1554 | 1.23 | TU 1533 | 0.73 |
| 2024 | 2.18 | 1947 | 2.44 | 2100 | 2.19 | 2107 | 2.71 |
| 5 0240 | 0.59 | 20 0213 | 0.25 | 5 0311 | 0.74 | 20 0326 | 0.18 |
| 0926 | 2.78 | 0850 | 3.19 | 0952 | 2.73 | 0953 | 3.39 |
| SA 1545 | 1.23 | SU 1505 | 0.95 | TU 1615 | 1.29 | WE 1613 | 0.75 |
| 2049 | 2.10 | 2030 | 2.49 | ● 2119 | 2.18 | ○ 2150 | 2.69 |
| 6 0303 | 0.65 | 21 0253 | 0.16 | 6 0329 | 0.81 | 21 0407 | 0.35 |
| 0954 | 2.72 | 0931 | 3.29 | 1010 | 2.66 | 1033 | 3.24 |
| SU 1620 | 1.30 | MO 1550 | 0.90 | WE 1635 | 1.36 | TH 1654 | 0.85 |
| ● 2109 | 2.03 | ○ 2114 | 2.49 | 2138 | 2.15 | 2235 | 2.58 |
| 7 0321 | 0.73 | 22 0336 | 0.19 | 7 0349 | 0.91 | 22 0449 | 0.63 |
| 1020 | 2.63 | 1015 | 3.30 | 1028 | 2.59 | 1115 | 2.99 |
| MO 1654 | 1.39 | TU 1637 | 0.93 | TH 1657 | 1.42 | FR 1739 | 1.00 |
| 2127 | 1.96 | 2159 | 2.43 | 2201 | 2.10 | 2324 | 2.41 |
| 8 0338 | 0.83 | 23 0420 | 0.32 | 8 0411 | 1.04 | 23 0536 | 1.00 |
| 1044 | 2.54 | 1101 | 3.19 | 1049 | 2.51 | 1158 | 2.68 |
| TU 1728 | 1.49 | WE 1727 | 1.02 | FR 1723 | 1.48 | SA 1829 | 1.18 |
| 2146 | 1.90 | 2248 | 2.32 | 2225 | 2.03 | | |
| 9 0358 | 0.95 | 24 0506 | 0.57 | 9 0434 | 1.22 | 24 0033 | 2.22 |
| 1108 | 2.45 | 1151 | 3.01 | 1110 | 2.40 | 0637 | 1.39 |
| WE 1809 | 1.57 | TH 1822 | 1.14 | SA 1758 | 1.54 | SU 1252 | 2.35 |
| 2206 | 1.83 | 2345 | 2.16 | 2254 | 1.93 | 1936 | 1.33 |
| 10 0420 | 1.09 | 25 0558 | 0.90 | 10 0455 | 1.42 | 25 0242 | 2.11 |
| 1139 | 2.36 | 1246 | 2.77 | 1133 | 2.28 | 0828 | 1.69 |
| TH 1907 | 1.63 | FR 1928 | 1.25 | SU 1857 | 1.58 | MO 1424 | 2.08 |
| 2228 | 1.75 | | | 2351 | 1.82 | 2128 | 1.39 |
| 11 0442 | 1.26 | 26 0108 | 2.01 | 11 0518 | 1.63 | 26 0513 | 2.29 |
| 1220 | 2.27 | 0704 | 1.24 | 1202 | 2.14 | 1137 | 1.64 |
| FR 2034 | 1.63 | SA 1354 | 2.52 | MO 2036 | 1.55 | TU 1647 | 1.99 |
| 2249 | 1.65 | 2050 | 1.29 | ● 2320 | 1.27 | | |
| 12 0502 | 1.45 | 27 0321 | 1.99 | 12 0414 | 1.87 | 27 0617 | 2.52 |
| 1321 | 2.18 | 0846 | 1.52 | 0822 | 1.84 | 1241 | 1.45 |
| SA 2249 | 1.54 | SU 1522 | 2.34 | TU 1350 | 2.00 | WE 1802 | 2.05 |
| | | 2226 | 1.23 | 2216 | 1.43 | | |
| 13 1443 | 2.13 | 28 0520 | 2.19 | 13 0543 | 2.11 | 28 0014 | 1.12 |
| 2310 | 1.41 | 1058 | 1.58 | 1120 | 1.77 | 0656 | 2.70 |
| SU | | MO 1651 | 2.25 | WE 1613 | 1.98 | TH 1318 | 1.29 |
| | | ● 2336 | 1.08 | ● 2318 | 1.22 | 1845 | 2.13 |
| 14 0555 | 1.84 | 29 0623 | 2.44 | 14 0614 | 2.38 | | |
| 0942 | 1.73 | 1222 | 1.47 | 1221 | 1.58 | TH 1727 | 2.07 |
| MO 1559 | 2.12 | TU 1756 | 2.23 | TH 1727 | 2.07 | | |
| ● 2331 | 1.25 | | | | | | |
| 15 0612 | 2.05 | 30 0025 | 0.94 | 15 0004 | 0.97 | | |
| 1117 | 1.66 | 0707 | 2.64 | 0646 | 2.66 | | |
| TU 1655 | 2.15 | WE 1315 | 1.34 | FR 1301 | 1.35 | | |
| 2355 | 1.07 | 1843 | 2.23 | 1818 | 2.21 | | |
| 31 0103 | 0.81 | | | | | | |
| 0743 | 2.77 | | | | | | |
| TH 1355 | 1.25 | | | | | | |
| 1921 | 2.23 | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

○ Last Quarter

AUSTRALIA, EAST COAST – LEGGATT IS.

2019

LAT 14° 32' S LONG 144° 51' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | |
|---------------------|----|--------------|---|---------------------|----|--------------|---|---------------------|----|--------------|---|---------------------|-----------|-----------|---|---------------------|-----------|-----------|---|---------------------|-----------|-----------|---|---------------------|-----------|-----------|---|-----------|---------|-----------|--|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | |
| 1 0120 1.12 | 16 | 0125 0.81 | | 1 0147 1.21 | 16 | 0252 1.07 | | 1 0213 1.18 | 16 | 0336 1.08 | | 1 0331 0.83 | 16 | 0409 1.07 | | 2 0414 0.80 | 17 | 0430 1.14 | | 3 0501 0.83 | 18 | 0451 1.21 | | 4 0551 0.91 | 19 | 0514 1.27 | | | | | |
| 0730 2.57 | | 0726 2.86 | | 0726 2.34 | 16 | 0822 2.28 | | 0735 2.19 | 16 | 0848 2.03 | | 0853 2.31 | 16 | 0919 2.04 | | 0938 2.32 | 17 | 0939 2.01 | | 1025 2.26 | 18 | 1002 1.96 | | 1119 2.15 | 19 | 1028 1.89 | | | | | |
| WE 1353 0.91 | | TH 1349 0.51 | | SA 1357 0.65 | 16 | SU 1441 0.47 | | MO 1405 0.41 | 16 | TU 1501 0.53 | | 1405 0.49 | 16 | 1527 0.69 | | 1514 0.12 | FR 1527 | 1527 0.69 | | 1644 0.37 | SU 1608 | 1608 0.93 | | 1733 0.64 | MO 1630 | 1630 1.10 | | | | | |
| 1954 2.39 | | 2003 2.78 | | 2027 2.57 | 16 | 2123 2.81 | | 2048 2.79 | 16 | 2148 2.72 | | 2152 3.14 | 2203 2.51 | | | 2236 3.09 | SA 2221 | 2221 2.42 | | 2322 2.96 | 2238 2.32 | | | 2257 2.21 | | | | | | | |
| 2 0143 1.08 | 17 | 0207 0.82 | | 2 0221 1.17 | 17 | 0338 1.13 | | 2 0256 1.10 | 17 | 0414 1.12 | | 3 0342 1.05 | 18 | 0450 1.19 | | 4 0432 1.04 | 19 | 0526 1.28 | | 5 0013 2.74 | 20 | 0543 1.33 | | | | | | | | | |
| 0746 2.55 | | 0802 2.76 | | 0754 2.31 | 17 | 0856 2.14 | | 0815 2.20 | 17 | 0916 1.97 | | 0858 2.19 | 18 | 0940 1.90 | | 0943 2.14 | 19 | 1002 1.84 | | 0647 1.00 | 20 | 1101 1.80 | | | | | | | | | |
| TH 1409 0.85 | | FR 1423 0.45 | | SU 1423 0.55 | 17 | MO 1512 0.53 | | TU 1441 0.32 | 17 | WE 1527 0.61 | | 1521 0.29 | 18 | 1548 0.72 | | 1606 0.36 | FR 1609 | 1609 0.84 | | 1228 2.02 | TU 1654 | 1654 1.30 | | 1733 0.64 | MO 1630 | 1630 1.10 | | | | | |
| 2016 2.47 | | 2043 2.86 | | 2059 2.68 | 17 | 2202 2.76 | | 2127 2.91 | 17 | 2218 2.63 | | 2136 2.76 | 18 | 2245 2.53 | | 2258 2.97 | 2310 2.42 | | | 2337 2.32 | | | | 1832 0.97 | 2314 2.08 | | | | | | |
| 3 0208 1.07 | 18 | 0250 0.89 | | 3 0259 1.16 | 18 | 0427 1.21 | | 3 0342 1.05 | 18 | 0450 1.19 | | 4 0432 1.04 | 19 | 0526 1.28 | | 5 0013 2.74 | 20 | 0543 1.33 | | 6 0111 2.49 | 21 | 0626 1.37 | | | | | | | | | |
| 0803 2.53 | | 0837 2.60 | | 0825 2.27 | 18 | 0928 1.99 | | 0858 2.19 | 18 | 0940 1.90 | | 0943 2.14 | 19 | 1002 1.84 | | 0957 1.85 | 20 | 1025 1.78 | | 0754 1.08 | 21 | 1211 1.71 | | | | | | | | | |
| FR 1427 0.79 | | SA 1456 0.46 | | MO 1453 0.50 | 18 | TU 1540 0.65 | | 1521 0.29 | 18 | 1548 0.72 | | 1606 0.36 | 19 | 1609 0.84 | | 1627 0.95 | 20 | 1630 0.99 | | 1409 1.94 | WE 1717 | 1717 1.51 | | 1733 0.64 | MO 1630 | 1630 1.10 | | | | | |
| 2041 2.54 | | 2125 2.87 | | 2136 2.76 | 18 | 2241 2.66 | | 2211 2.98 | 18 | 2245 2.53 | | 2220 2.62 | 19 | 2310 2.42 | | 2337 2.32 | 2314 2.08 | | | 2329 1.95 | | | | 1953 1.28 | | | | | | | |
| 4 0235 1.08 | 19 | 0335 1.03 | | 4 0342 1.19 | 19 | 0519 1.30 | | 4 0527 1.08 | 20 | 0602 1.37 | | 5 0224 2.26 | 22 | 0744 1.38 | | 8 0354 2.09 | 23 | 0922 1.31 | | 9 0517 2.04 | 24 | 0001 1.65 | | 12 0213 1.01 | 27 | 0639 2.07 | | | | | |
| 0823 2.49 | | 0911 2.41 | | 0900 2.20 | 19 | 0957 1.85 | | 0527 1.08 | 20 | 0602 1.37 | | 0917 1.09 | 22 | 1531 1.73 | | 0825 1.33 | 23 | 1735 1.94 | | 0647 1.00 | 24 | 1101 1.80 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| SA 1448 0.73 | | SU 1528 0.54 | | TU 1526 0.50 | 19 | WE 1605 0.79 | | 0527 1.08 | 20 | 0602 1.37 | | 1616 2.04 | 22 | 1958 1.70 | | 1627 0.95 | 23 | 2342 1.80 | | 1628 2.02 | TU 1654 | 1654 1.30 | | 1733 0.64 | MO 1630 | 1630 1.10 | | | | | |
| 2109 2.60 | | 2208 2.80 | | 2218 2.79 | 19 | 2320 2.54 | | 0527 1.08 | 20 | 0602 1.37 | | 2156 1.44 | 22 | 2342 1.80 | | 2220 2.62 | 23 | 2342 1.80 | | 2237 2.32 | | | | 2347 1.37 | | | | | | | |
| 5 0306 1.12 | 20 | 0423 1.19 | | 5 0433 1.24 | 20 | 0617 1.39 | | 5 0527 1.08 | 20 | 0602 1.37 | | 7 0224 2.26 | 22 | 0744 1.38 | | 9 1149 0.86 | 24 | 0001 1.65 | | 12 0213 1.01 | 27 | 0639 2.07 | | | | | | | | | |
| 0846 2.42 | | 0943 2.18 | | 0940 2.09 | 20 | 1024 1.73 | | 0527 1.08 | 20 | 0602 1.37 | | 0917 1.09 | 22 | 1531 1.73 | | 0948 2.13 | 23 | 1735 1.94 | | 0647 1.00 | 24 | 1101 1.80 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| SU 1512 0.71 | | MO 1557 0.69 | | 1606 0.58 | 20 | TH 1627 0.95 | | 0527 1.08 | 20 | 0602 1.37 | | 1616 2.04 | 22 | 1958 1.70 | | 1627 0.95 | 23 | 2342 1.80 | | 1628 2.02 | TU 1654 | 1654 1.30 | | 1733 0.64 | MO 1630 | 1630 1.10 | | | | | |
| ● 2142 2.63 | | 2253 2.68 | | 2309 2.77 | 20 | | | 0527 1.08 | 20 | 0602 1.37 | | 2156 1.44 | 22 | 2342 1.80 | | 2237 2.32 | | 2238 2.32 | | | | | | | | | | | | | |
| 6 0342 1.20 | 21 | 0523 1.37 | | 6 0537 1.32 | 21 | 0001 2.41 | | 6 0628 1.12 | 21 | 0646 1.43 | | 7 0051 2.77 | 22 | 0009 2.21 | | 8 0354 2.09 | 23 | 0922 1.31 | | 10 0051 1.23 | 25 | 0024 1.47 | | 12 0213 1.01 | 27 | 0639 2.07 | | | | | |
| 0911 2.32 | | 1013 1.95 | | 1028 1.95 | 21 | 0722 1.46 | | 1134 1.81 | 21 | 1056 1.70 | | 0736 1.16 | 22 | 0742 1.47 | | 1045 1.00 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| MO 1538 0.73 | | TU 1625 0.87 | | 1652 0.72 | 21 | FR 1054 1.63 | | 1152 1.54 | 21 | SU 1656 1.15 | | 1254 1.86 | 22 | 1150 1.62 | | 1045 1.00 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 2220 2.62 | | 2344 2.54 | | 1652 0.72 | 21 | 1651 1.12 | | 1724 1.29 | 21 | 1724 1.29 | | 1855 0.96 | 22 | 1727 1.34 | | 1045 1.00 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 7 0424 1.33 | 22 | 0645 1.50 | | 7 0010 2.72 | 22 | 0049 2.30 | | 7 0051 2.77 | 22 | 0009 2.21 | | 7 0224 2.26 | 22 | 0744 1.38 | | 9 0517 2.04 | 24 | 0001 1.65 | | 11 0136 1.10 | 26 | 0051 1.27 | | 12 0213 1.01 | 27 | 0639 2.07 | | | | | |
| 0940 2.19 | | 1042 1.74 | | 0657 1.36 | 22 | 0843 1.47 | | 0657 1.36 | 22 | 0843 1.47 | | 0917 1.09 | 22 | 1531 1.73 | | 0948 2.13 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| TU 1609 0.80 | | WE 1649 1.08 | | 1134 1.81 | 22 | SA 1152 1.54 | | 1152 1.54 | 22 | 1152 1.54 | | 1616 2.04 | 22 | 1958 1.70 | | 1134 1.81 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 2308 2.58 | | | | 1753 0.91 | 22 | 1724 1.29 | | 1724 1.29 | 22 | 1724 1.29 | | 1733 0.64 | 23 | 1735 1.94 | | 1134 1.81 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 8 0521 1.48 | 23 | 0047 2.40 | | 8 0122 2.67 | 23 | 0148 2.21 | | 8 0157 2.63 | 23 | 0052 2.11 | | 8 0354 2.09 | 23 | 0922 1.31 | | 10 0051 1.23 | 25 | 0024 1.47 | | 12 0213 1.01 | 27 | 0639 2.07 | | | | | | | | | |
| 1013 2.01 | | 0843 1.53 | | 1318 1.73 | 23 | 1023 1.42 | | 0851 1.15 | 23 | 0857 1.44 | | 1045 1.00 | 23 | 1735 1.94 | | 1318 1.73 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| WE 1645 0.94 | | TH 1123 1.57 | | 1713 1.28 | 23 | 1430 1.51 | | 1440 1.85 | 23 | 1426 1.59 | | 1446 2.27 | 23 | 1426 1.59 | | 1713 1.28 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 1713 1.28 | | | | 1915 1.08 | 23 | 1843 1.45 | | 1915 1.08 | 23 | 1843 1.45 | | 1915 1.08 | 23 | 1843 1.45 | | 1915 1.08 | 23 | 1735 1.94 | | 0111 2.49 | 21 | 1211 1.71 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| 11 0319 2.55 | 26 | 0458 2.32 | | 11 0453 2.64 | 26 | 0450 2.14 | | 11 0522 2.32 | 26 | 0416 1.92 | | 11 0136 1.10 | 26 | 0051 1.27 | | 13 0246 0.97 | 28 | 0156 0.86 | | 15 0344 1.01 | 30 | 0309 0.59 | | 17 0224 2.26 | 27 | 0639 2.07 | | | | | |
| 1044 1.35 | | 1158 1.21 | | 1139 0.92 | 26 | 1200 1.12 | | 1201 0.79 | 26 | 1134 1.08 | | 1201 0.79 | 26 | 1134 1.08 | | 1201 0.79 | 26 | 1134 1.08 | | 0136 1.10 | 26 | 0554 1.90 | | 1616 2.04 | TH 1958 | 1958 1.70 | | 1733 0.64 | MO 1630 | 1630 1.10 | |
| SA 1552 1.75 | | SU 1759 1.81 | | 1748 2.19 | 26 | WE 1826 1. | | | | | | | | | | | | | | | | | | | | | | | | | |

AUSTRALIA, EAST COAST – LEGGATT IS.

2019

LAT 14° 32' S LONG 144° 51' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Time | m |
| 1 0428 0.60 | 16 0358 1.00 | 1 0433 0.55 | 16 0336 0.81 | 1 0515 0.92 | 16 0407 0.80 | 1 0514 1.13 | 16 0506 0.83 | 1 0512 2.34 | 16 1239 2.63 | 1 1352 2.34 | 16 1239 2.63 | 1 1352 2.34 | 16 1239 2.63 | 1 1352 2.34 | 16 1239 2.63 |
| 1012 2.48 | 0945 2.14 | 1049 2.52 | 1003 2.26 | 1306 2.34 | 1139 2.38 | 2229 1.38 | MO 1942 1.43 | 1306 2.34 | 1139 2.38 | 2229 1.38 | MO 1942 1.43 | 2354 1.71 | 2354 1.71 | 2354 1.71 | 2354 1.71 |
| SU 1626 0.40 | MO 1545 0.98 | TU 1659 0.94 | WE 1558 1.24 | FR 2054 1.46 | SA 1817 1.57 | SU 2229 1.38 | MO 1942 1.43 | 1306 2.34 | 1139 2.38 | 2229 1.38 | MO 1942 1.43 | 2354 1.71 | 2354 1.71 | 2354 1.71 | 2354 1.71 |
| 2248 2.88 | 2148 2.29 | 2250 2.34 | 2120 2.11 | 2313 1.27 | 2157 1.73 | SU 2229 1.38 | MO 1942 1.43 | 2313 1.27 | 2157 1.73 | SU 2229 1.38 | MO 1942 1.43 | 2354 1.71 | 2354 1.71 | 2354 1.71 | 2354 1.71 |
| 2 0511 0.71 | 17 0416 1.04 | 2 0514 0.74 | 17 0355 0.86 | 2 0005 1.51 | 17 0447 0.96 | 2 0154 1.42 | 17 0615 1.04 | 2 0624 1.35 | 17 1356 2.60 |
| 1102 2.35 | 1011 2.08 | 1151 2.35 | 1039 2.20 | 0614 1.17 | 1307 2.35 | MO 1533 2.30 | TU 2112 1.35 | 1151 2.35 | 1039 2.20 | 0614 1.17 | 1307 2.35 | MO 1533 2.30 | TU 2112 1.35 | MO 1533 2.30 | TU 2112 1.35 |
| MO 1714 0.73 | TU 1609 1.15 | WE 1806 1.29 | TH 1634 1.42 | SA 1510 2.32 | SU | MO 1533 2.30 | TU 2112 1.35 | 1151 2.35 | 1039 2.20 | 0614 1.17 | 1307 2.35 | MO 1533 2.30 | TU 2112 1.35 | MO 1533 2.30 | TU 2112 1.35 |
| 2331 2.59 | 2201 2.17 | 2333 1.99 | 2132 1.96 | 2313 1.27 | SU | MO 1533 2.30 | TU 2112 1.35 | 2333 1.27 | 2132 1.96 | 2313 1.27 | SU | MO 1533 2.30 | TU 2112 1.35 | 2333 1.27 | SU |
| 3 0559 0.86 | 18 0434 1.09 | 3 0603 0.96 | 18 0416 0.95 | 3 0417 1.47 | 18 0607 1.15 | 3 0513 1.57 | 18 0213 1.68 | 3 0847 1.48 | 18 0751 1.20 |
| 1206 2.19 | 1044 2.00 | 1331 2.21 | 1136 2.12 | 0833 1.34 | 1445 2.41 | TU 1642 2.33 | WE 1513 2.59 | 1331 2.21 | 1136 2.12 | 0833 1.34 | 1445 2.41 | TU 1642 2.33 | WE 1513 2.59 | 1331 2.21 | 1136 2.12 |
| TU 1813 1.11 | WE 1635 1.35 | TH 2020 1.50 | FR 1737 1.61 | 1640 2.40 | MO 2237 1.34 | 2346 1.15 | 2223 1.20 | 2020 1.50 | 1737 1.61 | 1640 2.40 | MO 2237 1.34 | 2223 1.20 | 2020 1.50 | 1737 1.61 | 2223 1.20 |
| 2211 2.04 | 2216 1.89 | 2318 1.80 | 2216 1.89 | 2347 1.10 | SU | 2223 1.20 | 2223 1.20 | 2318 1.80 | 2216 1.89 | 2347 1.10 | SU | 2223 1.20 | 2223 1.20 | 2318 1.80 | 2223 1.20 |
| 4 0022 2.26 | 19 0454 1.15 | 4 0055 1.67 | 19 0444 1.07 | 4 0534 1.67 | 19 0310 1.54 | 4 0550 1.76 | 19 0411 1.84 | 4 1036 1.47 | 19 0936 1.27 |
| 0657 1.02 | 1136 1.90 | 0723 1.17 | 1334 2.09 | 1036 1.30 | 0832 1.23 | MO 1729 2.48 | TU 1602 2.53 | 1036 1.30 | 0832 1.23 | MO 1729 2.48 | TU 1602 2.53 | 1724 2.35 | TH 1620 2.61 | 1724 2.35 | TH 1620 2.61 |
| WE 1348 2.07 | TH 1709 1.56 | FR 1554 2.26 | SA | 1729 2.48 | TU | 1724 2.35 | TH 1620 2.61 | 1554 2.26 | SA | 1729 2.48 | TU | 1724 2.35 | TH 1620 2.61 | 1724 2.35 | TH 1620 2.61 |
| 1948 1.42 | 2216 1.89 | 2322 1.33 | 2216 1.89 | 1805 2.52 | SU | 1724 2.35 | TH 1620 2.61 | 2322 1.33 | 2216 1.89 | 1805 2.52 | SU | 1724 2.35 | TH 1620 2.61 | 2322 1.33 | 2216 1.89 |
| 5 0139 1.95 | 20 0522 1.23 | 5 0411 1.58 | 20 0547 1.23 | 5 0014 0.98 | 20 0444 1.76 | 5 0010 1.06 | 20 0522 2.08 | 5 0617 1.93 | 20 1059 1.23 |
| 0822 1.13 | 1415 1.87 | 0947 1.22 | 1535 2.21 | 0607 1.85 | 1015 1.14 | 1132 1.41 | FR 1715 2.61 | 0947 1.22 | 1535 2.21 | 0607 1.85 | 1015 1.14 | 1132 1.41 | FR 1715 2.61 | 0947 1.22 | 1535 2.21 |
| TH 1611 2.15 | FR 2020 1.73 | SA 1716 2.43 | SU 2357 1.38 | 1133 1.21 | WE 1657 2.67 | 1755 2.36 | 2356 0.83 | 1716 2.43 | SU 2357 1.38 | 1133 1.21 | WE 1657 2.67 | 1755 2.36 | 2356 0.83 | 1716 2.43 | 2356 0.83 |
| 2244 1.46 | 2154 1.74 | 1802 2.56 | 2353 1.17 | 1805 2.52 | SU | 1755 2.36 | 2356 0.83 | 1802 2.56 | 2353 1.17 | 1805 2.52 | SU | 1755 2.36 | 2356 0.83 | 1802 2.56 | 2353 1.17 |
| 6 0350 1.79 | 21 0708 1.31 | 6 0008 1.12 | 21 0340 1.49 | 6 0038 0.90 | 21 0535 2.03 | 6 0644 2.08 | 21 0614 2.34 | 6 0644 2.08 | 21 1202 1.17 |
| 1021 1.10 | 1633 2.04 | 0539 1.73 | 0912 1.25 | 0633 2.00 | 1120 1.00 | 1210 1.36 | SA 1801 2.60 | 0539 1.73 | 0912 1.25 | 0633 2.00 | 1120 1.00 | 1210 1.36 | SA 1801 2.60 | 0539 1.73 | 0912 1.25 |
| FR 1737 2.37 | SA | 1117 1.11 | MO 1644 2.42 | 1211 1.13 | TH 1741 2.77 | 1819 2.34 | 1819 2.34 | 1117 1.11 | MO 1644 2.42 | 1211 1.13 | TH 1741 2.77 | 1819 2.34 | 1819 2.34 | 1117 1.11 | MO 1644 2.42 |
| ○ | 1725 2.28 | 1802 2.56 | 2353 1.17 | 1833 2.53 | SU | 1819 2.34 | 1819 2.34 | 1802 2.56 | 2353 1.17 | 1833 2.53 | SU | 1819 2.34 | 1819 2.34 | 1802 2.56 | 2353 1.17 |
| 7 0012 1.26 | 22 0045 1.50 | 7 0038 0.96 | 22 0506 1.71 | 7 0100 0.84 | 22 0019 0.74 | 7 0052 0.89 | 22 0034 0.65 | 7 0709 2.21 | 22 0659 2.57 |
| 0529 1.83 | 0326 1.55 | 0619 1.89 | 1048 1.06 | 0659 2.12 | 0618 2.28 | 1242 1.32 | SU 1255 1.10 | 0619 1.89 | 1048 1.06 | 0659 2.12 | 0618 2.28 | 1242 1.32 | SU 1255 1.10 | 0619 1.89 | 1048 1.06 |
| SU 1138 0.96 | SU 0954 1.23 | 1205 0.99 | TU 1730 2.63 | 1241 1.07 | FR 1212 0.87 | 1242 1.32 | SU 1255 1.10 | 1205 0.99 | TU 1730 2.63 | 1241 1.07 | FR 1212 0.87 | 1242 1.32 | SU 1255 1.10 | 1205 0.99 | TU 1730 2.63 |
| 1826 2.56 | ○ 1725 2.28 | 1837 2.63 | 2216 1.89 | 1857 2.51 | 1821 2.82 | 1837 2.32 | 1843 2.55 | 1826 2.56 | 2216 1.89 | 1857 2.51 | 1821 2.82 | 1837 2.32 | 1843 2.55 | 1826 2.56 | 2216 1.89 |
| 8 0054 1.08 | 23 0021 1.31 | 8 0104 0.86 | 23 0014 0.96 | 8 0121 0.79 | 23 0052 0.56 | 8 0109 0.81 | 23 0111 0.50 | 8 0732 2.32 | 23 0741 2.76 |
| 0622 1.93 | 0508 1.69 | 0650 2.02 | 0549 1.97 | 1307 1.04 | SA 1257 0.79 | 1310 1.28 | MO 1343 1.06 | 0650 2.02 | 0549 1.97 | 1307 1.04 | SA 1257 0.79 | 1310 1.28 | MO 1343 1.06 | 0650 2.02 | 0549 1.97 |
| SU 1226 0.83 | MO 1113 1.01 | 1241 0.89 | WE 1143 0.84 | 1307 1.04 | SA 1257 0.79 | 1307 1.04 | MO 1343 1.06 | 1241 0.89 | WE 1143 0.84 | 1307 1.04 | SA 1257 0.79 | 1307 1.04 | MO 1343 1.06 | 1241 0.89 | WE 1143 0.84 |
| 1903 2.67 | 1800 2.53 | 1906 2.65 | 1809 2.82 | 1916 2.47 | 1858 2.81 | 1854 2.29 | 1923 2.49 | 1906 2.65 | 1809 2.82 | 1916 2.47 | 1858 2.81 | 1854 2.29 | 1923 2.49 | 1906 2.65 | 1809 2.82 |
| 9 0127 0.95 | 24 0038 1.09 | 9 0129 0.81 | 24 0043 0.75 | 9 0140 0.75 | 24 0125 0.40 | 9 0756 2.42 | 24 0822 2.89 |
| 0659 2.01 | 0555 1.90 | 0716 2.31 | 0627 2.22 | 0745 2.30 | 0739 2.70 | 1305 2.73 | FR 1822 2.89 | 0716 2.31 | 0627 2.22 | 0745 2.30 | 0739 2.70 | 1305 2.73 | FR 1822 2.89 | 0716 2.31 | 0627 2.22 |
| MO 1303 0.72 | TU 1203 0.75 | 1310 0.83 | TH 1228 0.63 | 1331 1.03 | SU 1341 0.76 | 1331 1.26 | TU 1430 1.05 | 1310 0.83 | TH 1228 0.63 | 1331 1.03 | SU 1341 0.76 | 1331 1.26 | TU 1430 1.05 | 1310 0.83 | TH 1228 0.63 |
| 1935 2.72 | 1836 2.77 | 1931 2.63 | 1845 2.96 | 1931 2.42 | 1935 2.74 | 1931 2.42 | 1913 2.26 | 1931 2.63 | 1845 2.96 | 1931 2.42 | 1935 2.74 | 1931 2.42 | 1913 2.26 | 1931 2.63 | 1845 2.96 |
| 10 0156 0.88 | 25 0106 0.87 | 10 0152 0.78 | 25 0113 0.55 | 10 0156 0.71 | 25 0158 0.30 | 10 0144 0.63 | 25 0222 0.36 | 10 0820 2.52 | 25 0902 2.95 |
| 0730 2.08 | 0636 2.14 | 0740 2.20 | 0705 2.46 | 0808 2.36 | 0820 2.83 | 1408 1.24 | WE 1517 1.07 | 0740 2.20 | 0705 2.46 | 0808 2.36 | 0820 2.83 | 1408 1.24 | WE 1517 1.07 | 0740 2.20 | 0705 2.46 |
| TU 1334 0.66 | WE 1246 0.50 | 1335 0.80 | FR 1310 0.49 | 1355 1.04 | MO 1425 0.81 | 1408 1.24 | SU 2038 2.28 | 1335 0.80 | FR 1310 0.49 | 1355 1.04 | MO 1425 0.81 | 1408 1.24 | SU 2038 2.28 | 1335 0.80 | FR 1310 0.49 |
| 2003 2.71 | 1911 2.97 | 1953 2.59 | 1921 3.02 | 1945 2.37 | 2010 2.61 | 1935 2.23 | 2038 2.28 | 1953 2.59 | 1921 3.02 | 1945 2.37 | 2010 2.61 | 1935 2.23 | 2038 2.28 | 1953 2.59 | 1 |

AUSTRALIA, TORRES STRAIT – TWIN ISLAND

2019

LAT 10° 28' S LONG 142° 26' E

Times and Heights of High and Low Waters

Time Zone -1000

| JANUARY | | FEBRUARY | | MARCH | | APRIL | |
|---------|------|----------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m |
| 1 0355 | 0.47 | 16 0327 | 0.88 | 1 0441 | 0.73 | 16 0406 | 0.82 |
| 1030 | 2.90 | 16 1021 | 2.64 | 1 1115 | 3.25 | 16 1025 | 3.30 |
| TU 1649 | 1.14 | WE 1630 | 1.40 | FR 1814 | 0.74 | SA 1732 | 0.67 |
| 2148 | 2.25 | 2121 | 1.94 | 2309 | 2.02 | 2235 | 2.17 |
| 2 0425 | 0.49 | 17 0348 | 0.77 | 2 0458 | 0.72 | 17 0442 | 0.61 |
| 1056 | 3.08 | 17 1024 | 2.91 | 2 1139 | 3.27 | 17 1055 | 3.55 |
| WE 1734 | 1.03 | TH 1700 | 1.17 | SA 1844 | 0.77 | SU 1805 | 0.49 |
| 2228 | 2.15 | 2154 | 2.02 | 2333 | 2.00 | 2310 | 2.32 |
| 3 0449 | 0.53 | 18 0416 | 0.64 | 3 0508 | 0.71 | 18 0521 | 0.42 |
| 1124 | 3.19 | 18 1042 | 3.20 | 3 1159 | 3.23 | 18 1132 | 3.73 |
| TH 1815 | 0.97 | FR 1736 | 0.93 | SU 1909 | 0.87 | MO 1840 | 0.38 |
| 2302 | 2.06 | 2232 | 2.11 | 2353 | 1.99 | 2348 | 2.44 |
| 4 0506 | 0.57 | 19 0449 | 0.51 | 4 0510 | 0.71 | 19 0602 | 0.31 |
| 1150 | 3.23 | 19 1112 | 3.45 | 4 1213 | 3.16 | 19 1211 | 3.81 |
| FR 1854 | 0.98 | SA 1815 | 0.73 | MO 1929 | 0.99 | TU 1917 | 0.35 |
| 2332 | 1.96 | 2313 | 2.19 | ● | | | |
| 5 0512 | 0.61 | 20 0526 | 0.41 | 5 0012 | 1.98 | 20 0028 | 2.50 |
| 1213 | 3.21 | 20 1148 | 3.62 | 5 0503 | 0.70 | 20 0643 | 0.32 |
| SA 1928 | 1.02 | SU 1857 | 0.58 | TU 1221 | 3.10 | WE 1252 | 3.76 |
| 2358 | 1.88 | 2355 | 2.22 | ● 1942 | 1.09 | ○ 1955 | 0.42 |
| 6 0447 | 0.64 | 21 0606 | 0.37 | 6 0030 | 1.97 | 21 0109 | 2.49 |
| 1228 | 3.15 | 21 1228 | 3.70 | 6 0509 | 0.70 | 21 0723 | 0.48 |
| SU 2001 | 1.10 | MO 1939 | 0.52 | WE 1232 | 3.03 | TH 1332 | 3.58 |
| ● | | ● | | 1949 | 1.18 | 2034 | 0.58 |
| 7 0019 | 1.79 | 22 0040 | 2.21 | 7 0050 | 1.94 | 22 0150 | 2.40 |
| 0451 | 0.65 | 22 0647 | 0.42 | 7 0521 | 0.74 | 22 0803 | 0.79 |
| MO 1235 | 3.07 | TU 1311 | 3.68 | TH 1246 | 2.93 | FR 1411 | 3.24 |
| 2031 | 1.20 | 2024 | 0.53 | 2003 | 1.26 | 2117 | 0.83 |
| 8 0040 | 1.70 | 23 0125 | 2.14 | 8 0106 | 1.87 | 23 0234 | 2.24 |
| 0508 | 0.70 | 23 0728 | 0.58 | 8 0535 | 0.83 | 23 0846 | 1.23 |
| TU 1246 | 2.96 | WE 1356 | 3.55 | FR 1254 | 2.80 | SA 1451 | 2.77 |
| 2100 | 1.31 | 2112 | 0.63 | 2020 | 1.37 | 2207 | 1.12 |
| 9 0059 | 1.59 | 24 0213 | 2.01 | 9 0049 | 1.77 | 24 0326 | 2.03 |
| 0520 | 0.78 | 24 0809 | 0.86 | 9 0549 | 0.97 | 24 1002 | 1.71 |
| WE 1303 | 2.82 | TH 1442 | 3.30 | SA 1250 | 2.64 | SU 1531 | 2.21 |
| 2136 | 1.42 | 2205 | 0.78 | 1854 | 1.47 | 2323 | 1.38 |
| 10 0046 | 1.46 | 25 0305 | 1.84 | 10 0001 | 1.72 | 25 0925 | 2.20 |
| 0529 | 0.87 | 25 0627 | 1.21 | 10 0558 | 1.16 | 25 1908 | 1.65 |
| TH 1313 | 2.67 | FR 1532 | 2.94 | SU 1231 | 2.46 | MO 2136 | 1.79 |
| ● | | ● | | * | * | * | |
| 11 0534 | 0.96 | 26 0417 | 1.67 | 11 0542 | 1.36 | 26 0158 | 1.41 |
| 1304 | 2.52 | 26 0633 | 1.52 | 11 1141 | 2.34 | 26 0950 | 2.56 |
| FR | | SA 1632 | 2.51 | MO 1854 | 1.48 | TU 1613 | 1.21 |
| ● | | ● | | 2250 | 1.76 | ● 2218 | 1.91 |
| 12 0524 | 1.07 | 27 0053 | 0.99 | 12 0302 | 1.43 | 27 0302 | 1.29 |
| 1232 | 2.38 | 27 0940 | 2.11 | 12 1058 | 2.37 | 27 1003 | 2.81 |
| SA | | SU 1339 | 1.79 | TU 1829 | 1.48 | WE 1638 | 0.88 |
| ● | | 1813 | 2.13 | 2247 | 1.79 | 2230 | 1.98 |
| 13 0319 | 1.11 | 28 0217 | 0.92 | 13 0259 | 1.32 | 28 0340 | 1.18 |
| 1141 | 2.32 | 28 1003 | 2.47 | 13 1021 | 2.51 | 28 1013 | 2.99 |
| SU | | MO 1537 | 1.48 | WE 1707 | 1.37 | TH 1702 | 0.67 |
| ● | | ● 2027 | 1.99 | ● 2228 | 1.79 | 2236 | 2.04 |
| 14 0307 | 1.04 | 29 0308 | 0.84 | 14 0314 | 1.19 | 29 0328 | 1.57 |
| 1115 | 2.35 | 29 1016 | 2.75 | 14 1007 | 2.73 | 29 0939 | 2.87 |
| MO | | TU 1630 | 1.16 | TH 1649 | 1.13 | TH 1632 | 1.09 |
| ● | | 2132 | 1.99 | 2200 | 1.86 | 2256 | 1.98 |
| 15 0312 | 0.97 | 30 0345 | 0.78 | 15 0336 | 1.02 | 30 0354 | 1.42 |
| 1042 | 2.44 | 30 1030 | 2.99 | 15 1008 | 3.01 | 30 0953 | 2.98 |
| TU 1611 | 1.64 | WE 1708 | 0.93 | FR 1705 | 0.89 | FR 1631 | 0.84 |
| 2055 | 1.88 | 2209 | 2.00 | 2208 | 2.00 | 2230 | 2.02 |
| ● | | | | | | | |
| 31 0416 | 0.75 | | | | | | |
| 1051 | 3.16 | | | | | | |
| TH 1743 | 0.78 | | | | | | |
| 2241 | 2.01 | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – TWIN ISLAND

2019

LAT 10° 28' S LONG 142° 26' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | | |
|-----------|------|------|-----------|------|------|---------|-----------|---------|-----------|-----------|------|------|---------|-----------|-----------|-----------|--|
| 1 | 0435 | 1.33 | 16 | 0453 | 0.99 | | 1 | 0520 | 1.33 | 16 | 0624 | 1.04 | | 1 | 0554 | 1.10 | |
| 1009 | 2.83 | | 1009 | 1020 | 3.09 | | 1030 | 2.45 | 16 | 1122 | 2.32 | | 1054 | 2.20 | 16 | | |
| WE 1706 | 0.77 | | TH 1717 | 0.42 | | SA 1706 | 0.73 | SU 1738 | 0.61 | 1153 | 2.02 | | MO 1708 | 0.65 | TU 1725 | | |
| 2258 | 2.60 | | 2310 | 2.99 | | 2324 | 3.04 | | 2335 | 3.34 | 0.71 | | | | 2335 | 3.34 | |
| 2 | 0501 | 1.27 | 17 | 0535 | 0.95 | | 2 | 0555 | 1.24 | 17 | 0006 | 3.27 | | 2 | 0637 | 0.97 | |
| 1032 | 2.81 | | 1058 | 1058 | 2.96 | | 1105 | 2.41 | 17 | 0707 | 1.06 | | 1136 | 2.20 | 17 | | |
| TH 1721 | 0.78 | | FR 1746 | 1746 | 0.46 | SU 1729 | 0.71 | MO 1157 | 2.17 | 1221 | 1.95 | | TU 1742 | 0.63 | WE 1221 | | |
| 2320 | 2.73 | | 2342 | 2342 | 3.14 | | 2353 | 3.19 | ○ 1751 | 0.69 | 1707 | 0.75 | | | | ○ 1707 | |
| 3 | 0527 | 1.23 | 18 | 0617 | 0.97 | | 3 | 0636 | 1.19 | 18 | 0034 | 3.26 | | 3 | 0012 | 3.45 | |
| 1056 | 2.77 | | 1134 | 1134 | 2.78 | | 1142 | 2.32 | 18 | 0751 | 1.12 | | 0723 | 0.88 | 18 | | |
| FR 1739 | 0.78 | | SA 1811 | 1811 | 0.55 | MO 1629 | 0.74 | TU 1230 | 2.00 | 1247 | 1.88 | | WE 1221 | 2.17 | TH 1247 | | |
| 2343 | 2.87 | | | | | ● | | 1700 | 0.76 | 1713 | 0.79 | | 1819 | 0.66 | | | |
| 4 | 0558 | 1.22 | 19 | 0015 | 3.23 | | 4 | 0024 | 3.27 | 19 | 0058 | 3.18 | | 4 | 0054 | 3.47 | |
| 1122 | 2.70 | | 0659 | 0659 | 1.06 | | 0720 | 1.17 | 0839 | 1.20 | 0842 | 1.21 | | 0811 | 0.85 | 19 | |
| SA 1758 | 0.79 | | SU 1208 | 1208 | 2.53 | | 1221 | 2.19 | WE 1301 | 1.82 | 1311 | 1.79 | | 1308 | 2.10 | FR 1308 | |
| | | | ○ 1831 | 1831 | 0.67 | | 1647 | 0.74 | 1716 | 0.84 | 1729 | 0.87 | | 1856 | 0.76 | | |
| 5 | 0009 | 2.98 | 20 | 0046 | 3.25 | | 5 | 0057 | 3.27 | 20 | 0118 | 3.03 | | 5 | 0140 | 3.42 | |
| 0631 | 1.25 | | 0744 | 0744 | 1.20 | | 0810 | 1.20 | 0936 | 1.29 | 0909 | 1.33 | | 0905 | 0.86 | 20 | |
| SU 1151 | 2.58 | | MO 1241 | 1241 | 2.24 | | 1302 | 2.02 | TH 1332 | 1.62 | 1337 | 1.68 | | 1358 | 1.98 | SA 1337 | |
| ● 1805 | 0.84 | | 1712 | 1712 | 0.82 | | 1714 | 0.81 | 1734 | 0.96 | 1743 | 0.97 | | 1932 | 0.93 | | |
| 6 | 0036 | 3.04 | 21 | 0116 | 3.17 | | 6 | 0138 | 3.20 | 21 | 0142 | 2.84 | | 6 | 0231 | 3.29 | |
| 0709 | 1.33 | | 0839 | 0839 | 1.35 | | 0917 | 1.22 | 1101 | 1.35 | 0941 | 1.45 | | 1003 | 0.90 | 21 | |
| MO 1219 | 2.39 | | TU 1309 | 1309 | 1.91 | | 1351 | 1.80 | FR 1406 | 1.43 | 1454 | 1.85 | | 1454 | 1.85 | SA 1359 | |
| 1702 | 0.81 | | 1725 | 1725 | 0.89 | | 1742 | 0.96 | 1741 | 1.09 | 1834 | 1.14 | | 1834 | 1.14 | 1753 | |
| 7 | 0102 | 3.03 | 22 | 0142 | 3.00 | | 7 | 0233 | 3.07 | 22 | 0212 | 2.63 | | 7 | 0326 | 3.10 | |
| 0751 | 1.45 | | 1011 | 1011 | 1.46 | | 1044 | 1.19 | 1355 | 1.25 | 1755 | 1.22 | | 1111 | 0.93 | 22 | |
| TU 1247 | 2.14 | | WE 1327 | 1327 | 1.58 | | 1500 | 1.60 | SA | | MO | | | 1603 | 1.72 | MO | |
| 1721 | 0.85 | | 1739 | 1739 | 1.02 | | 1809 | 1.18 | | | 2143 | 1.47 | | | | 2143 | |
| 8 | 0131 | 2.95 | 23 | 0210 | 2.77 | | 8 | 0343 | 2.92 | 23 | 0253 | 2.42 | | 8 | 0429 | 2.85 | |
| 0851 | 1.59 | | 1732 | 1732 | 1.14 | | 1215 | 1.05 | 1439 | 1.13 | 1440 | 1.35 | | 1232 | 0.91 | 23 | |
| WE 1316 | 1.84 | | TH | | | | 1641 | 1.49 | SU | | | | | MO | | TU | |
| 1741 | 0.96 | | | | | | 1818 | 1.45 | | | | | | | | | |
| 9 | 0215 | 2.81 | 24 | 0309 | 2.53 | | 9 | 0505 | 2.82 | 24 | 0404 | 2.25 | | 9 | 0550 | 2.61 | |
| 1753 | 1.14 | | 1456 | 1456 | 1.02 | | 1334 | 0.87 | 1502 | 1.06 | 1440 | 1.28 | | 1348 | 0.84 | 24 | |
| TH | | | FR | | | | 2134 | 1.90 | MO 2332 | 2.20 | 2315 | 2.26 | | 2119 | 2.14 | WE 2315 | |
| | | | | | | | | | | | | | | ● | | | |
| 10 | 0347 | 2.65 | 25 | 0525 | 2.38 | | 10 | 0033 | 1.72 | 25 | 0254 | 2.06 | | 10 | 0156 | 1.60 | |
| 1412 | 1.16 | | 1514 | 1514 | 0.87 | | 0633 | 2.80 | 0539 | 2.14 | 0917 | 1.78 | | 0718 | 2.44 | 25 | |
| FR | | | SA 2311 | 2311 | 2.22 | | 1429 | 0.71 | TU 1512 | 1.02 | 1446 | 1.21 | | 1442 | 0.76 | TH 1446 | |
| | | | | | | | 2123 | 2.14 | ○ 2303 | 2.23 | 2232 | 2.36 | | 2134 | 2.47 | ○ 2232 | |
| 11 | 0555 | 2.67 | 26 | 0237 | 2.08 | | 11 | 0206 | 1.57 | 26 | 0317 | 1.90 | | 11 | 0320 | 1.41 | |
| 1443 | 0.87 | | 0737 | 0737 | 2.40 | | 0742 | 2.80 | 0756 | 2.12 | 0902 | 1.79 | | 0827 | 2.34 | 26 | |
| SA 2213 | 2.05 | | SU 1533 | 1533 | 0.81 | | 1511 | 0.59 | WE 1519 | 0.99 | 1524 | 0.70 | | 1524 | 0.77 | FR 1500 | |
| | | | 2253 | 2253 | 2.23 | | 2132 | 2.41 | 2235 | 2.32 | 2209 | 2.54 | | 2200 | 2.77 | 2204 | |
| 12 | 0127 | 1.82 | 27 | 0305 | 1.91 | | 12 | 0312 | 1.39 | 27 | 0341 | 1.74 | | 12 | 0421 | 1.20 | |
| 0725 | 2.85 | | 0813 | 0813 | 2.46 | | 0836 | 2.77 | 0835 | 2.13 | 0912 | 1.84 | | 0921 | 2.27 | 27 | |
| SU 1514 | 0.65 | | MO 1549 | 1549 | 0.80 | | 1548 | 0.53 | TH 1530 | 0.94 | 1600 | 0.67 | | 1530 | 0.79 | SA 1520 | |
| ● 2152 | 2.19 | | ○ 2237 | 2237 | 2.27 | | 2159 | 2.67 | 2219 | 2.48 | 2230 | 3.01 | | 2230 | 2.79 | | |
| 13 | 0234 | 1.55 | 28 | 0326 | 1.76 | | 13 | 0406 | 1.24 | 28 | 0409 | 1.58 | | 13 | 0510 | 1.03 | |
| 0816 | 3.01 | | 0838 | 0838 | 2.50 | | 0923 | 2.71 | 0907 | 2.13 | 0937 | 1.93 | | 1006 | 2.21 | 28 | |
| MO 1545 | 0.51 | | TU 1559 | 1559 | 0.81 | | 1621 | 0.52 | FR 1548 | 0.88 | 1631 | 0.66 | | 1545 | 0.89 | SA 1545 | |
| 2147 | 2.38 | | 2228 | 2228 | 2.35 | | 2231 | 2.90 | 2223 | 2.70 | 2301 | 3.18 | | 2218 | 3.05 | | |
| 14 | 0325 | 1.31 | 29 | 0350 | 1.63 | | 14 | 0454 | 1.13 | 29 | 0440 | 1.42 | | 14 | 0554 | 0.92 | |
| 0900 | 3.11 | | 0905 | 0905 | 2.51 | | 1005 | 2.60 | 0939 | 2.15 | 1009 | 2.04 | | 1047 | 2.15 | 29 | |
| TU 1616 | 0.43 | | WE 1609 | 1609 | 0.82 | | 1651 | 0.53 | SA 1610 | 0.81 | 1656 | 0.67 | | 1616 | 0.74 | MO 1616 | |
| 2208 | 2.60 | | 2228 | 2228 | 2.48 | | 2304 | 3.08 | 2239 | 2.94 | 2332 | 3.27 | | 2243 | 3.30 | | |
| 15 | 0410 | 1.12 | 30 | 0416 | 1.52 | | 15 | 0540 | 1.06 | 30 | 0515 | 1.26 | | 15 | 0634 | 0.88 | |
| 0940 | 3.14 | | 0931 | 0931 | 2.50 | | 1045 | 2.47 | 1014 | 2.17 | 1047 | 2.16 | | 1122 | 2.08 | 30 | |
| WE 1647 | 0.41 | | TH 1624 | 1624 | 0.80 | | 1717 | 0.56 | SU 1637 | 0.72 | 1715 | 0.68 | | 1715 | 3.27 | FR 1817 | |
| 2237 | 2.81 | | 2239 | 2239 | 2.66 | | 2336 | 3.21 | 2304 | 3.17 | 2359 | 3.27 | | 2317 | 3.50 | ● 1711 | |
| | | | | | | | | | | | | | | | | ● 1711 | |
| 31 | 0447 | 1.42 | | | | | | | | | | | | | | | |
| 0959 | 2.48 | | | | | | | | | | | | | | | | |
| FR 1643 | 0.77 | | | | | | | | | | | | | | | | |
| 2259 | 2.85 | | | | | | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – TWIN ISLAND

2019

LAT 10° 28' S LONG 142° 26' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | | |
|-----------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|---------|---------|---------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | |
| 1 0105 | 3.62 | 16 0004 | 2.88 | 1 0116 | 3.02 | 16 0509 | 0.87 | 1 0202 | 1.59 | 16 0514 | 0.79 | 1 0106 | 1.10 | 16 0220 | 1.44 | | |
| 0807 | 0.53 | 0659 | 1.08 | 0806 | 0.75 | 1247 | 2.64 | 0539 | 1.05 | 1338 | 2.76 | 1549 | 2.60 | 0541 | 0.95 | | |
| SU 1328 | 2.55 | MO 1243 | 2.31 | TU 1350 | 2.77 | WE 1736 | 1.46 | FR 1517 | 2.67 | SA | | MO 1505 | 2.89 | | | | |
| 1944 | 0.67 | 1718 | 1.04 | 2027 | 1.19 | 2319 | 2.29 | | | | | 2359 | 1.03 | | | | |
| 2 0147 | 3.35 | 17 0008 | 2.73 | 2 0154 | 2.53 | 17 0519 | 0.85 | 2 0222 | 1.12 | 17 0527 | 0.94 | 2 0219 | 0.85 | 17 1620 | 2.76 | | |
| 0848 | 0.72 | 0558 | 1.13 | 0840 | 1.07 | 1304 | 2.57 | 1706 | 2.52 | 1502 | 2.61 | 1726 | 2.44 | | | | |
| MO 1413 | 2.44 | TU 2355 | 2.55 | WE 1439 | 2.60 | TH 1757 | 1.65 | SA | | | | MO | | TU | | | |
| 2032 | 1.04 | * | | 2144 | 1.55 | 2307 | 2.08 | | | | | | | | | | |
| 3 0229 | 2.91 | 18 0553 | 1.11 | 3 0235 | 1.95 | 18 0530 | 0.88 | 3 0254 | 0.75 | 18 0212 | 1.07 | 3 0251 | 0.68 | 18 0121 | 0.83 | | |
| 0936 | 0.98 | 1310 | 2.19 | 0917 | 1.43 | 1323 | 2.46 | 1017 | 2.10 | 1709 | 2.58 | 1042 | 2.20 | 1751 | 2.68 | | |
| TU 1506 | 2.28 | WE 1753 | 1.41 | TH 1551 | 2.42 | FR | | 1314 | 1.98 | MO | | TU 1415 | 2.02 | WE | | | |
| 2140 | 1.48 | 2341 | 2.35 | | | | | 1951 | 2.60 | | | 1911 | 2.41 | | | | |
| 4 0314 | 2.37 | 19 0600 | 1.10 | 4 0242 | 1.37 | 19 0536 | 0.97 | 4 0320 | 0.52 | 19 0226 | 0.79 | 4 0317 | 0.60 | 19 0213 | 0.63 | | |
| 1039 | 1.25 | 1230 | 2.10 | 0421 | 1.41 | 1439 | 2.31 | 1021 | 2.23 | 1019 | 2.02 | 1041 | 2.27 | 0951 | 2.08 | | |
| WE 1624 | 2.13 | TH 1802 | 1.67 | 0604 | 1.36 | SA | | 1436 | 1.78 | TU | 1258 | 1.87 | WE 1457 | 1.85 | TH 1341 | 1.69 | |
| | | 2307 | 2.19 | 2028 | 2.54 | | | 2020 | 2.70 | 1854 | 2.73 | 2002 | 2.41 | 1914 | 2.66 | | |
| 5 0135 | 1.71 | 20 0603 | 1.13 | 5 0321 | 0.90 | 20 0510 | 1.07 | 5 0344 | 0.43 | 20 0252 | 0.56 | 5 0338 | 0.58 | 20 0254 | 0.49 | | |
| 0437 | 1.82 | 2128 | 2.23 | 1004 | 2.01 | 1124 | 2.09 | 1022 | 2.29 | 0953 | 2.13 | 1035 | 2.33 | 0946 | 2.33 | | |
| TH 1223 | 1.40 | FR | | 1355 | 1.69 | SU | 1318 | 2.07 | 1509 | 1.61 | WE | 1407 | 1.60 | TH 1526 | 1.71 | FR 1453 | 1.48 |
| 2104 | 2.47 | | | 2052 | 2.77 | 1954 | 2.45 | 2045 | 2.75 | 1949 | 2.90 | 2032 | 2.41 | 2015 | 2.64 | | |
| 6 0330 | 1.24 | 21 0546 | 1.17 | 6 0349 | 0.58 | 21 0323 | 0.87 | 6 0406 | 0.43 | 21 0321 | 0.39 | 6 0352 | 0.61 | 21 0330 | 0.40 | | |
| 0943 | 1.87 | 1111 | 1.96 | 1018 | 2.14 | 1031 | 2.07 | 1021 | 2.34 | 0941 | 2.31 | 1032 | 2.41 | 0959 | 2.62 | | |
| FR 1407 | 1.35 | SA 1412 | 1.81 | SU 1453 | 1.52 | MO 1358 | 1.80 | 1536 | 1.47 | TH 1458 | 1.35 | 1552 | 1.60 | SA 1550 | 1.28 | | |
| 2126 | 2.78 | 2107 | 2.46 | 2108 | 2.91 | 2001 | 2.74 | 2107 | 2.78 | 2034 | 3.01 | 2059 | 2.38 | 2105 | 2.57 | | |
| 7 0407 | 0.85 | 22 0416 | 1.07 | 7 0413 | 0.43 | 22 0332 | 0.63 | 7 0424 | 0.50 | 22 0352 | 0.30 | 7 0402 | 0.64 | 22 0404 | 0.36 | | |
| 1005 | 1.97 | 1043 | 1.96 | 1021 | 2.21 | 1006 | 2.12 | 1024 | 2.41 | 0954 | 2.54 | 1033 | 2.53 | 1025 | 2.90 | | |
| SA 1502 | 1.23 | SU 1427 | 1.61 | MO 1527 | 1.37 | TU 1433 | 1.51 | 1600 | 1.37 | FR 1546 | 1.15 | 1619 | 1.51 | SU 1641 | 1.12 | | |
| 2142 | 2.99 | 2100 | 2.72 | 2126 | 3.01 | 2027 | 3.01 | 2129 | 2.77 | 2115 | 3.04 | 2124 | 2.33 | 2150 | 2.48 | | |
| 8 0436 | 0.61 | 23 0409 | 0.84 | 8 0437 | 0.40 | 23 0352 | 0.45 | 8 0437 | 0.58 | 23 0424 | 0.26 | 8 0413 | 0.65 | 23 0435 | 0.36 | | |
| 1014 | 2.05 | 1018 | 1.98 | 1023 | 2.28 | 0950 | 2.25 | 1023 | 2.49 | 1021 | 2.77 | 1042 | 2.68 | 1056 | 3.13 | | |
| SU 1540 | 1.12 | MO 1451 | 1.38 | TU 1554 | 1.23 | WE 1512 | 1.23 | 1624 | 1.31 | SA 1632 | 1.01 | 1647 | 1.44 | MO 1729 | 0.99 | | |
| 2201 | 3.14 | 2105 | 3.00 | 2146 | 3.06 | 2059 | 3.22 | 2151 | 2.73 | 2156 | 2.98 | 2150 | 2.27 | 2232 | 2.35 | | |
| 9 0503 | 0.50 | 24 0423 | 0.64 | 9 0459 | 0.46 | 24 0419 | 0.34 | 9 0449 | 0.64 | 24 0455 | 0.26 | 9 0427 | 0.64 | 24 0503 | 0.39 | | |
| 1028 | 2.14 | 0957 | 2.09 | 1032 | 2.35 | 0959 | 2.44 | 1049 | 2.59 | 1052 | 2.98 | 1058 | 2.84 | 1127 | 3.29 | | |
| MO 1609 | 1.01 | TU 1521 | 1.12 | 1617 | 1.13 | TH 1552 | 0.99 | 1649 | 1.28 | SU 1717 | 0.93 | 1717 | 1.37 | TU 1817 | 0.91 | | |
| 2223 | 3.22 | 2127 | 3.27 | 2207 | 3.06 | 2136 | 3.36 | 2213 | 2.67 | 2236 | 2.85 | 2218 | 2.22 | 2311 | 2.20 | | |
| 10 0530 | 0.50 | 25 0446 | 0.50 | 10 0518 | 0.57 | 25 0449 | 0.28 | 10 0501 | 0.67 | 25 0524 | 0.31 | 10 0444 | 0.62 | 25 0528 | 0.44 | | |
| 1045 | 2.20 | 1006 | 2.28 | 1047 | 2.40 | 1025 | 2.64 | 1108 | 2.70 | 1126 | 3.15 | 1117 | 3.01 | 1159 | 3.37 | | |
| TU 1634 | 0.93 | WE 1559 | 0.87 | 1639 | 1.07 | FR 1635 | 0.81 | 1716 | 1.28 | MO 1802 | 0.92 | 1749 | 1.29 | WE 1902 | 0.88 | | |
| 2246 | 3.23 | 2159 | 3.49 | 2228 | 3.03 | 2213 | 3.41 | 2236 | 2.59 | 2315 | 2.65 | 2249 | 2.16 | 2348 | 2.05 | | |
| 11 0555 | 0.59 | 26 0515 | 0.39 | 11 0533 | 0.69 | 26 0520 | 0.26 | 11 0515 | 0.69 | 26 0552 | 0.40 | 11 0500 | 0.60 | 26 0548 | 0.53 | | |
| 1105 | 2.24 | 1033 | 2.47 | 1103 | 2.45 | 1057 | 2.82 | 1129 | 2.82 | 1200 | 3.26 | 1141 | 3.14 | 1230 | 3.37 | | |
| WE 1654 | 0.89 | TH 1642 | 0.65 | 1700 | 1.06 | SA 1718 | 0.72 | 1744 | 1.29 | TU 1849 | 0.97 | 1826 | 1.23 | TH 1947 | 0.91 | | |
| 2308 | 3.19 | 2236 | 3.63 | 2247 | 2.96 | 2253 | 3.36 | 2259 | 2.49 | 2353 | 2.39 | 2322 | 2.08 | ● | | | |
| 12 0616 | 0.73 | 27 0548 | 0.33 | 12 0544 | 0.78 | 27 0553 | 0.29 | 12 0527 | 0.70 | 27 0616 | 0.53 | 12 0418 | 0.60 | 27 0025 | 1.88 | | |
| 1124 | 2.26 | 1108 | 2.63 | 1123 | 2.50 | 1133 | 2.97 | 1152 | 2.92 | 1235 | 3.29 | 1207 | 3.21 | 0548 | 0.65 | | |
| TH 1710 | 0.88 | FR 1725 | 0.51 | 1718 | 1.09 | SU 1801 | 0.72 | 1817 | 1.31 | WE 1938 | 1.05 | 1908 | 1.19 | FR 1259 | 3.29 | | |
| 2326 | 3.12 | 2317 | 3.67 | 2305 | 2.89 | 2332 | 3.19 | 2325 | 2.36 | ● | | 2359 | 1.97 | 2032 | 0.98 | | |
| 13 0631 | 0.86 | 28 0622 | 0.32 | 13 0555 | 0.83 | 28 0624 | 0.38 | 13 0432 | 0.70 | 28 0626 | 0.72 | 13 0428 | 0.60 | 28 0059 | 1.71 | | |
| 1143 | 2.28 | 1146 | 2.76 | 1143 | 2.57 | 1209 | 3.08 | 1216 | 2.97 | 1310 | 3.23 | 1238 | 3.22 | 0502 | 0.72 | | |
| FR 1716 | 0.89 | SA 1808 | 0.48 | 1733 | 1.13 | MO 1845 | 0.82 | 1854 | 1.37 | 2037 | 1.16 | 1956 | 1.18 | SA 1328 | 3.13 | | |
| 2340 | 3.05 | 2358 | 3.60 | 2322 | 2.81 | ● | | 2351 | 2.18 | | | 2122 | 1.07 | | | | |
| 14 0642 | 0.96 | 29 0657 | 0.38 | 14 0606 | 0.86 | 29 0010 | 2.92 | 14 0440 | 0.68 | 29 0107 | 1.77 | 14 0038 | 1.82 | 29 0133 | 1.52 | | |
| 1202 | 2.30 | 1226 | 2.84 | 1205 | 2.63 | 0653 | 0.53 | 1240 | 2.96 | 0505 | 0.78 | 0451 | 0.65 | 0520 | 0.82 | | |
| SA 1647 | 0.91 | SU 1851 | 0.58 | 1714 | 1.20 | TU 1247 | 3.11 | 1937 | 1.47 | 1349 | 3.07 | 1313 | 3.15 | SU 1354 | 2.93 | | |
| ○ 2353 | 2.98 | ● | | 2337 | 2.68 | 1932 | 1.01 | 2157 | 1.22 | 2157 | 1.22 | 2058 | 1.19 | 2226 | 1.16 | | |
| 15 0651 | 1.02 | 30 0037 | 3.39 | 15 0551 | 0.90 | 30 0047 | 2.54 | 15 0014 | 1.95 | 30 0150 | 1.43 | 15 0122 | 1.64 | 30 0208 | 1.33 | | |
| 1222 | 2.32 | 0731 | 0.52 | 1227 | 2.66 | 0718 | 0.77 | 0456 | 0.70 | 0522 | 0.91 | 0516 | 0.77 | 0532 | 0.94 | | |
| SU 1700 | 0.94 | MO 1307 | 2.85 | 1718 | 1.31 | WE 1328 | 3.05 | 1304 | 2.89 | SA 1438 | 2.84 | 1400 | 3.03 | MO 1418 | 2.70 | | |
| | | 1936 | 0.83 | 2344 | 2.50 | 2029 | 1.26 | * | | | | 2220 | 1.16 | | | | |
| | | | | | | | | 31 | 0124 | 2.09 | | | | | | | |
| | | | | | | | | 0527 | 0.95 | | | | | | | | |
| | | | | | | | | TH 1413 | 2.89 | | | | | | | | |
| | | | | | | | | 2158 | 1.44 | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

2019

LAT 10° 35' S LONG 142° 13' E

Times and Heights of High and Low Waters

| JANUARY | | | | | | | | FEBRUARY | | | | | | | | MARCH | | | | | | | | APRIL | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|----------|------|---------|------|---------|------|-------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--|--|--|--|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | |
| 1 0445 | 0.83 | 16 0359 | 1.10 | 1 0000 | 1.95 | 16 0447 | 1.37 | 1 0454 | 1.48 | 16 0403 | 1.60 | 1 0004 | 2.28 | 16 0510 | 1.48 | 2 0002 | 2.22 | 17 0552 | 1.40 | 3 0003 | 2.21 | 18 0636 | 1.37 | 4 0010 | 2.25 | 19 0031 | 2.60 | | | | |
| 1137 | 3.18 | 16 1107 | 3.04 | 1 0531 | 1.40 | 16 1059 | 3.50 | 1 1058 | 3.36 | 16 1004 | 3.31 | 1 0523 | 1.67 | 16 1035 | 3.34 | 2 0542 | 1.67 | 17 1115 | 3.27 | 3 0600 | 1.67 | 18 1153 | 3.11 | 4 0619 | 1.67 | 19 0720 | 1.40 | | | | |
| TU 1744 | 1.37 | WE 1714 | 1.56 | FR 1146 | 3.43 | SA 1813 | 0.81 | FR 1800 | 0.65 | SA 1717 | 0.69 | MO 1103 | 3.05 | TU 1801 | 0.55 | TU 1122 | 2.98 | WE 1837 | 0.69 | WE 1140 | 2.88 | TH 1911 | 0.89 | MO 1207 | 3.22 | TU 1905 | 0.64 | | | | |
| 2244 | 2.10 | 2211 | 2.03 | 1857 | 0.88 | 2322 | 2.07 | 2332 | 2.24 | 1821 | 0.81 | 2358 | 2.51 | | | | | | | | | | | | | | | | | | |
| 2 0516 | 1.03 | 17 0426 | 1.15 | 2 0007 | 1.84 | 17 0525 | 1.35 | 2 0013 | 2.18 | 17 0439 | 1.51 | 2 0002 | 2.22 | 17 0552 | 1.40 | 3 0003 | 2.21 | 18 0636 | 1.37 | 4 0010 | 2.25 | 19 0031 | 2.60 | | | | | | | | |
| 1148 | 3.25 | 17 1111 | 3.18 | 2 0546 | 1.53 | 17 1129 | 3.66 | 2 0520 | 1.55 | 17 1028 | 3.48 | 2 0542 | 1.67 | 17 1115 | 3.27 | 3 0600 | 1.67 | 18 1153 | 3.11 | 4 0619 | 1.67 | 19 0720 | 1.40 | | | | | | | | |
| WE 1830 | 1.23 | TH 1748 | 1.33 | SA 1209 | 3.40 | SU 1851 | 0.70 | SA 1117 | 3.34 | SU 1751 | 0.58 | WE 1122 | 2.98 | WE 1837 | 0.69 | WE 1140 | 2.88 | TH 1911 | 0.89 | SA 1222 | 3.12 | WE 1220 | 3.55 | | | | | | | | |
| 2315 | 1.92 | 2234 | 1.99 | 1931 | 0.93 | 2348 | 2.10 | 1829 | 0.71 | 2325 | 2.23 | 1917 | 1.36 | 1944 | 1.13 | | | | | | | | | | | | | | | | |
| 3 0541 | 1.23 | 18 0458 | 1.21 | 3 0020 | 1.78 | 18 0605 | 1.34 | 3 0012 | 2.07 | 18 0519 | 1.42 | 5 0026 | 2.31 | 20 0107 | 2.65 | 6 0713 | 1.74 | 21 0905 | 1.57 | 7 0112 | 2.42 | 22 0225 | 2.61 | | | | | | | | |
| 1205 | 3.30 | 18 1123 | 3.36 | 3 0319 | 1.58 | 18 1206 | 3.76 | 3 0540 | 1.61 | 18 1103 | 3.60 | 5 0643 | 1.69 | 20 0808 | 1.47 | 6 0713 | 1.74 | 21 0905 | 1.57 | 7 0440 | 1.85 | 22 1036 | 1.61 | | | | | | | | |
| TH 1913 | 1.14 | FR 1828 | 1.11 | SU 1233 | 3.33 | MO 1931 | 0.68 | SU 1139 | 3.29 | MO 1827 | 0.57 | WE 1221 | 2.52 | WE 1302 | 2.52 | WE 1221 | 2.52 | SA 1222 | 3.12 | WE 1220 | 3.55 | WE 1221 | 2.52 | SA 1302 | 2.52 | | | | | | |
| 2344 | 1.77 | 2307 | 1.97 | 2003 | 1.04 | 2013 | 2.77 | 1859 | 0.84 | 2341 | 2.27 | 1931 | 1.48 | 2013 | 1.39 | | | | | | | | | | | | | | | | |
| 4 0551 | 1.41 | 19 0532 | 1.27 | 4 0031 | 1.76 | 19 0024 | 2.12 | 4 0014 | 2.01 | 19 0600 | 1.36 | 8 0140 | 2.43 | 23 0648 | 2.49 | 9 0215 | 2.39 | 24 0046 | 2.22 | 10 0713 | 2.85 | 11 0808 | 1.47 | | | | | | | | |
| 1228 | 3.32 | 19 1149 | 3.54 | 4 0319 | 1.49 | 19 0645 | 1.35 | 4 0552 | 1.64 | 19 1141 | 3.63 | 8 0456 | 1.96 | 23 1629 | 1.22 | 9 0509 | 2.10 | 24 0743 | 2.63 | 10 0440 | 1.85 | 11 1036 | 1.61 | | | | | | | | |
| FR 1954 | 1.11 | SA 1909 | 0.94 | MO 1257 | 3.23 | TU 1247 | 3.77 | MO 1202 | 3.22 | TU 1905 | 0.64 | WE 1221 | 2.52 | WE 1302 | 2.52 | WE 1221 | 2.52 | SA 1222 | 3.12 | WE 1220 | 3.55 | WE 1221 | 2.52 | SA 1302 | 2.52 | | | | | | |
| 2346 | 1.95 | 2306 | 1.95 | 2036 | 1.19 | 2013 | 0.74 | 1925 | 1.03 | 1943 | 0.79 | 1931 | 1.48 | 1944 | 1.13 | | | | | | | | | | | | | | | | |
| 5 1255 | 3.28 | 20 0608 | 1.33 | 5 0040 | 1.76 | 20 0102 | 2.11 | 5 0019 | 2.00 | 20 0011 | 2.32 | 5 026 | 2.31 | 20 0107 | 2.65 | 6 0713 | 1.74 | 21 0905 | 1.57 | 7 0112 | 2.42 | 22 0225 | 2.61 | | | | | | | | |
| 2034 | 1.13 | 20 1225 | 3.67 | 5 0337 | 1.42 | 20 0723 | 1.42 | 5 0546 | 1.65 | 20 0640 | 1.35 | 5 0643 | 1.69 | 20 0808 | 1.47 | 6 0713 | 1.74 | 21 0905 | 1.57 | 7 0440 | 1.85 | 22 1036 | 1.61 | | | | | | | | |
| SA | | SU 1953 | 0.83 | TU 1317 | 3.11 | WE 1327 | 3.67 | TU 1222 | 3.12 | WE 1220 | 3.55 | WE 1221 | 2.52 | WE 1302 | 2.52 | WE 1221 | 2.52 | SA 1222 | 3.12 | WE 1220 | 3.55 | WE 1221 | 2.52 | SA 1302 | 2.52 | | | | | | |
| ● 2117 | 1.18 | ○ 2038 | 0.79 | ● 2107 | 1.35 | ○ 2056 | 0.87 | 1949 | 1.22 | 1943 | 0.79 | 1931 | 1.48 | 1944 | 1.13 | | | | | | | | | | | | | | | | |
| 6 0025 | 1.59 | 21 0029 | 1.92 | 6 0056 | 1.76 | 21 0142 | 2.07 | 6 0027 | 2.02 | 21 0045 | 2.36 | 6 0447 | 2.38 | 21 0144 | 2.66 | 7 0112 | 2.42 | 22 0225 | 2.61 | 8 0456 | 1.96 | 23 1629 | 1.22 | | | | | | | | |
| 0314 | 1.32 | 21 0642 | 1.40 | 6 0358 | 1.37 | 21 0803 | 1.56 | 6 0340 | 1.60 | 21 0722 | 1.40 | 6 0713 | 1.74 | 21 0905 | 1.57 | 7 0440 | 1.85 | 22 1036 | 1.61 | 8 0417 | 1.53 | 23 0648 | 2.49 | | | | | | | | |
| SU 1323 | 3.20 | MO 1306 | 3.72 | WE 1329 | 2.98 | TH 1406 | 3.44 | WE 1238 | 3.00 | TH 1258 | 3.36 | WE 1221 | 2.52 | WE 1302 | 2.52 | WE 1221 | 2.52 | SA 1222 | 3.12 | WE 1220 | 3.55 | WE 1221 | 2.52 | SA 1302 | 2.52 | | | | | | |
| ● 2205 | 1.26 | 2126 | 0.82 | 2140 | 1.50 | 2143 | 1.06 | 2010 | 1.40 | 2202 | 1.00 | 1929 | 1.56 | 2101 | 1.25 | 1931 | 1.48 | 1944 | 1.13 | | | | | | | | | | | | |
| 7 0040 | 1.54 | 22 0114 | 1.87 | 7 0116 | 1.73 | 22 0224 | 2.00 | 7 0043 | 2.05 | 22 0123 | 2.37 | 7 0239 | 2.04 | 22 0225 | 2.61 | 8 0456 | 1.96 | 23 1629 | 1.22 | 9 0215 | 2.39 | 24 0046 | 2.22 | | | | | | | | |
| 0336 | 1.26 | 22 0359 | 1.40 | 7 0420 | 1.34 | 22 0440 | 1.66 | 7 0356 | 1.54 | 22 0806 | 1.52 | 7 0831 | 2.85 | 22 0827 | 2.73 | 8 0417 | 1.53 | 23 0648 | 2.49 | 9 0509 | 2.10 | 24 0743 | 2.63 | | | | | | | | |
| MO 1347 | 3.08 | TU 1350 | 3.69 | TH 1309 | 2.85 | FR 1444 | 3.08 | TH 1248 | 2.88 | FR 1334 | 3.06 | FR 1606 | 0.82 | SA 1635 | 0.49 | 10 0713 | 1.20 | WE 1559 | 0.94 | 10 0206 | 2.17 | 26 0319 | 1.98 | | | | | | | | |
| 2205 | 1.26 | 2126 | 0.82 | 2229 | 1.62 | 2239 | 1.26 | ● 2029 | 1.56 | 2101 | 1.25 | ● 2333 | 2.58 | 10 1713 | 1.20 | WE 2256 | 2.29 | WE 2246 | 2.57 | 10 0804 | 2.64 | 26 0859 | 2.78 | | | | | | | | |
| 8 0102 | 1.48 | 23 0159 | 1.78 | 8 0132 | 1.69 | 23 0803 | 2.13 | 8 0417 | 2.06 | 23 0201 | 2.35 | 8 0924 | 3.21 | 23 1002 | 2.78 | 9 0215 | 2.39 | 24 0046 | 2.22 | 10 0707 | 2.20 | WE 1741 | 0.81 | | | | | | | | |
| 0357 | 1.22 | 23 0422 | 1.41 | 8 0439 | 1.35 | 23 1021 | 2.03 | 8 1240 | 2.76 | 23 1405 | 2.65 | 8 1651 | 2.32 | 23 2355 | 2.57 | 9 0509 | 2.10 | 24 0743 | 2.63 | 10 1625 | 1.06 | FR 1612 | 0.53 | | | | | | | | |
| TU 1404 | 2.93 | WE 1434 | 3.56 | FR 1231 | 2.75 | SA 1838 | 2.38 | FR 1240 | 2.75 | SA 1405 | 2.65 | FR 1651 | 1.10 | FR 1704 | 0.50 | 10 2254 | 2.38 | WE 2246 | 2.57 | 10 0804 | 2.64 | 26 0859 | 2.78 | | | | | | | | |
| 2311 | 1.32 | 2220 | 0.90 | 2311 | 2.75 | 2322 | 2.39 | ● 2317 | 2.21 | 2346 | 2.50 | ● 2333 | 2.58 | 10 2254 | 2.38 | WE 2246 | 2.57 | 10 0804 | 2.64 | 26 0859 | 2.78 | | | | | | | | | | |
| 9 0123 | 1.41 | 24 0249 | 1.67 | 9 0451 | 1.40 | 24 0007 | 1.41 | 9 0123 | 2.06 | 24 0245 | 2.28 | 9 0239 | 2.04 | 27 0351 | 1.89 | 13 0313 | 1.89 | 28 0418 | 1.82 | 14 0350 | 1.73 | 29 0440 | 1.77 | | | | | | | | |
| 0416 | 1.19 | 24 0442 | 1.46 | 9 1216 | 2.64 | 24 0848 | 2.49 | 9 0436 | 1.58 | 24 1021 | 1.88 | 9 0856 | 3.05 | 27 0923 | 2.80 | 13 0813 | 1.89 | 28 0944 | 2.80 | 14 0924 | 3.21 | 29 1002 | 2.78 | | | | | | | | |
| WE 1310 | 2.79 | TH 1520 | 3.31 | SA 1753 | 2.05 | SU 1330 | 2.02 | SA 1207 | 2.63 | SU 1427 | 2.17 | SA 1623 | 0.61 | 27 1635 | 0.49 | 13 0856 | 3.05 | 28 1044 | 2.80 | 14 1652 | 0.50 | 29 1022 | 0.65 | | | | | | | | |
| 2325 | 0.99 | 2325 | 2.36 | 1938 | 2.11 | 2023 | 2.34 | * 2107 | 1.81 | * 2247 | 1.78 | * 2315 | 2.41 | 13 2315 | 2.41 | 28 2348 | 2.50 | 14 2308 | 2.32 | 29 2355 | 2.42 | 15 0429 | 1.59 | 30 0502 | 1.73 | | | | | | |
| 11 0432 | 1.16 | 26 0054 | 1.02 | 11 0233 | 1.49 | 26 0258 | 1.39 | 11 1133 | 2.32 | 26 0128 | 1.87 | 11 0804 | 2.64 | 26 0859 | 2.78 | 11 0804 | 2.64 | 26 0859 | 2.78 | 11 1625 | 1.06 | FR 1612 | 0.53 | | | | | | | | |
| 1158 | 2.66 | 26 0933 | 2.47 | 11 1022 | 2.63 | 26 0957 | 3.11 | 11 1729 | 1.57 | 26 0842 | 2.78 | 11 2254 | 2.38 | 26 2311 | 2.62 | 11 0804 | 2.64 | 26 0859 | 2.78 | 11 1625 | 1.06 | FR 1612 | 0.53 | | | | | | | | |
| FR | | SA 1303 | 2.17 | MO 1802 | 1.78 | TU 1635 | 1.18 | MO 2205 | 2.08 | TU 1617 | 1.19 | MO 2254 | 2.38 | MO 2333 | 2.58 | 11 0804 | 2.64 | 26 0859 | 2.78 | 11 1625 | 1.06 | FR 1612 | 0.53 | | | | | | | | |
| ● 1115 | 2.65 | 27 0959 | 2.80 | 10 253 | 1.44 | 27 0345 | 1.38 | 12 0204 | 1.91 | 27 0246 | 1.80 | 12 0831 | 2.85 | 27 0923 | 2.80 | 12 0831 | 2.85 | 27 0923 | 2.80 | 12 1606 | 0.82 | SA 1635 | 0.49 | | | | | | | | |
| SA | | SU 1503 | 1.90 | TU 1800 | 1.63 | WE 1703 | 0.87 | TU 1739 | 1.44 | WE 1621 | 0.84 | 2300 | 2.42 | 2333 | 2.58 | 12 0831 | 2.85 | 27 0923 | 2.80 | 12 1606 | 0.82 | SA 1635 | 0.49 | | | | | | | | |
| 2105 | 2.47 | ● 2216 | 2.36 | 2225 | 2.17 | 2322 | 2.39 | 2317 | 2.10 | 2346 | 2.50 | ● 2333 | 2.58 | 12 0831 | 2.85 | 27 0923 | 2.80 | 12 1606 | 0.82 | SA 1635 | 0.49 | | | | | | | | | | |
| 13 0307 | 1.10 | 28 0312 | 0.97 | 13 0314 | 1.41 | 28 0422 | 1.41 | 13 0235 | 1.84 | 28 0333 | 1.72 | 13 0856 | 3.05 | 28 0944</td | | | | | | | | | | | | | | | | | |

AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

2019

LAT 10° 35' S LONG 142° 13' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | |
|---------|------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|------|---------|------|---------|------|---------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | | | | | | | | | | | | |
| 1 0525 | 1.69 | 16 0549 | 1.40 | 1 0618 | 1.49 | 16 0021 | 3.00 | 1 0659 | 1.07 | 16 0043 | 3.12 | 1 0043 | 3.41 | 16 0109 | 2.88 | 2 0125 | 3.43 | 17 0125 | 2.74 | 3 0208 | 3.35 | 18 0124 | 2.59 | 4 0250 | 3.16 | 19 0035 | 2.47 | | | | | | | | | | | | |
| 1039 | 2.66 | 16 1053 | 2.75 | 1 1100 | 2.11 | 16 0732 | 1.07 | 1 1128 | 1.81 | 16 0808 | 0.79 | 1 0810 | 0.60 | 16 0845 | 1.08 | 2 0855 | 0.64 | 17 0914 | 1.26 | 3 0942 | 0.72 | 18 0945 | 1.42 | 4 1037 | 0.84 | 19 1652 | 1.27 | | | | | | | | | | | | |
| WE 1758 | 0.98 | TH 1809 | 0.80 | SA 1754 | 1.18 | SU 1159 | 1.81 | MO 1500 | 1.29 | TU 1237 | 1.55 | MO 1251 | 1.79 | FR 1254 | 1.64 | ● 1902 | 1.24 | 1554 | 1.24 | SA 1418 | 1.69 | SU 1329 | 1.61 | WE 1623 | 1.25 | 1616 | 1.21 | | | | | | | | | | | | |
| 2352 | 2.37 | 2353 | 2.69 | 2358 | 2.77 | 1828 | 1.31 | 1512 | 1.29 | ● 1902 | 1.24 | 1554 | 1.24 | ● 1902 | 1.24 | 1554 | 1.24 | ● 1902 | 1.24 | 1554 | 1.24 | ● 1902 | 1.24 | 1554 | 1.24 | | | | | | | | | | | | | | |
| 2 0551 | 1.66 | 17 0636 | 1.34 | 2 1132 | 2.02 | 17 0820 | 1.03 | 2 0742 | 0.94 | 17 0847 | 0.88 | 2 0125 | 3.43 | 17 0125 | 2.74 | 3 0208 | 3.35 | 18 0124 | 2.59 | 4 0250 | 3.16 | 19 0035 | 2.47 | | | | | | | | | | | | | | | | |
| 1100 | 2.56 | 17 1132 | 2.53 | SU 1817 | 1.27 | MO 1231 | 1.65 | ○ 1523 | 1.28 | TU 1208 | 1.77 | WE 1256 | 1.50 | WE 1252 | 1.71 | TH 1311 | 1.46 | 3 0942 | 0.72 | 18 0945 | 1.42 | 4 1037 | 0.84 | 19 1652 | 1.27 | | | | | | | | | | | | | | |
| TH 1814 | 1.13 | FR 1839 | 1.01 | 1904 | 1.23 | ● 1833 | 1.37 | 1543 | 1.21 | 1827 | 1.29 | ○ 1536 | 1.22 | WE 1252 | 1.71 | TH 1311 | 1.46 | WE 1644 | 1.30 | SA 1636 | 1.22 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | | | | | | | | | | |
| 2355 | 2.44 | ● 1833 | 1.37 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | | | | | | | | | | | | |
| 3 0620 | 1.63 | 18 0024 | 2.81 | 3 0742 | 2.90 | 18 0128 | 3.02 | 3 0827 | 0.85 | 18 0927 | 1.01 | 3 0208 | 3.35 | 18 0124 | 2.59 | 4 0250 | 3.16 | 19 0035 | 2.47 | 5 0333 | 2.84 | 20 0016 | 2.37 | 6 0425 | 2.41 | 21 0546 | 1.57 | 7 0206 | 1.74 | 22 0553 | 1.42 | | | | | | | | |
| 1122 | 2.46 | 18 0723 | 1.31 | MO 1207 | 1.91 | TU 1255 | 1.50 | WE 1252 | 1.71 | TH 1311 | 1.46 | 5 1149 | 0.95 | 20 1659 | 1.35 | 6 1321 | 0.97 | 21 0857 | 1.85 | 7 0839 | 2.21 | 22 1003 | 1.92 | 8 0351 | 1.38 | 23 0558 | 1.27 | 9 0451 | 1.01 | 24 0543 | 1.13 | | | | | | | | |
| FR 1830 | 1.25 | SA 1207 | 2.27 | ● 1833 | 1.37 | 1543 | 1.21 | 1645 | 1.23 | 1621 | 1.19 | FR 1430 | 1.50 | SA 1351 | 1.34 | MO 2052 | 1.99 | TU 2348 | 2.27 | WE 1433 | 0.96 | TH 1449 | 1.42 | 8 0959 | 2.16 | 23 1043 | 1.97 | 9 1057 | 2.10 | 24 1113 | 1.97 | 10 0530 | 0.73 | 25 0524 | 0.96 | | | | |
| 1904 | 1.23 | ● 1833 | 1.37 | ● 1833 | 1.37 | 1543 | 1.21 | 1645 | 1.23 | 1621 | 1.19 | WE 1644 | 1.30 | SA 1636 | 1.22 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | ● 1833 | 1.37 | 1543 | 1.21 | | | | | | | | | | | | |
| 4 0012 | 2.55 | 19 0058 | 2.88 | 4 0832 | 2.99 | 19 0203 | 2.93 | 4 0916 | 0.81 | 19 1004 | 1.06 | 4 1037 | 0.84 | 19 1652 | 1.27 | 5 0226 | 3.23 | 20 0222 | 2.62 | 6 0425 | 2.41 | 21 0546 | 1.57 | 7 0206 | 1.74 | 22 0553 | 1.42 | 8 0351 | 1.38 | 23 0558 | 1.27 | 9 0451 | 1.01 | 24 0543 | 1.13 | | | | |
| 0654 | 1.60 | 19 0814 | 1.30 | TU 1245 | 1.78 | WE 1317 | 1.37 | WE 1433 | 1.50 | WE 1644 | 1.30 | WE 1644 | 1.30 | | | | | | | | |
| SA 1145 | 2.34 | SU 1238 | 2.00 | 1642 | 1.17 | 1602 | 1.15 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | 1621 | 1.19 | | | | | | | | |
| 1846 | 1.36 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | ● 1902 | 1.37 | | | | | | | | |
| 5 0034 | 2.66 | 20 0135 | 2.89 | 5 0928 | 3.02 | 20 0237 | 2.78 | 5 1009 | 0.81 | 20 1108 | 1.09 | 5 1099 | 0.81 | 20 1121 | 1.24 | 5 0333 | 2.84 | 20 0016 | 2.37 | 6 0425 | 2.41 | 21 0546 | 1.57 | 7 0206 | 1.74 | 22 0553 | 1.42 | 8 0351 | 1.38 | 23 0558 | 1.27 | 9 0451 | 1.01 | 24 0543 | 1.13 | | | | |
| 0733 | 1.59 | 20 0912 | 1.31 | WE 1328 | 1.61 | TH 1341 | 1.24 | WE 1433 | 1.50 | WE 1644 | 1.30 | WE 1644 | 1.30 | | | | | | | | |
| SU 1212 | 2.20 | MO 1302 | 1.72 | 1620 | 1.16 | 1616 | 1.10 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | 1645 | 1.23 | | | | | | | | |
| ● 1857 | 1.47 | 1601 | 1.31 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | | | | | | | | |
| 6 0102 | 2.74 | 21 0214 | 2.83 | 6 1035 | 3.00 | 21 0313 | 2.61 | 6 1111 | 0.82 | 21 1621 | 1.05 | 6 1111 | 0.82 | 21 1652 | 1.12 | 6 0315 | 3.13 | 21 0132 | 2.46 | 7 0409 | 2.95 | 22 0033 | 2.37 | 8 0513 | 2.70 | 23 1521 | 1.13 | 9 0149 | 1.87 | 24 0608 | 1.77 | 10 0320 | 1.65 | 25 0610 | 1.62 | | | | |
| 0820 | 1.59 | 21 1034 | 1.28 | TU 1321 | 1.45 | 1620 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | 1642 | 1.17 | | | | | | | | |
| MO 1240 | 2.02 | SA 1321 | 1.45 | 1612 | 1.27 | 1612 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | 1621 | 1.20 | | | | | | | | |
| 1621 | 1.27 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | | | | | | | | |
| 7 0136 | 2.76 | 22 0300 | 2.71 | 7 1154 | 2.94 | 22 0353 | 2.44 | 7 1228 | 0.80 | 22 1550 | 0.98 | 7 1228 | 0.80 | 22 1646 | 1.14 | 7 0206 | 1.74 | 22 1003 | 1.92 | 8 0351 | 2.16 | 23 1043 | 1.97 | 9 0451 | 2.10 | 24 1113 | 1.97 | 10 0530 | 0.73 | 25 0524 | 0.96 | | | | | | | | |
| 0922 | 1.58 | 22 1613 | 1.08 | FR 1321 | 0.80 | TH 2310 | 2.40 | SA 2225 | 2.15 | SA 2314 | 2.42 | MO 2159 | 2.26 | TU 2257 | 2.38 | WE 1433 | 0.96 | TH 1449 | 1.42 | WE 1528 | 0.97 | FR 1506 | 1.40 | ● 2228 | 2.92 | 2204 | 2.62 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | | | | | | |
| TU 1311 | 1.79 | WE | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | | | | | | | | | |
| 1630 | 1.19 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | ● 1857 | 1.47 | | | | | | | | |
| 11 0145 | 2.15 | 26 0334 | 2.03 | 11 0834 | 2.70 | 26 0923 | 2.12 | 11 1062 | 0.54 | WE 1602 | 0.89 | 11 1062 | 0.54 | WE 1602 | 0.89 | 11 0427 | 1.39 | 26 0605 | 1.47 | 11 0604 | 0.57 | 26 0529 | 0.76 | 12 0121 | 1.85 | 22 1134 | 1.86 | 13 0711 | 0.58 | 28 0629 | 0.50 | 14 0020 | 3.10 | 29 0707 | 0.47 | | | | |
| 0723 | 2.83 | 26 0839 | 2.48 | TU 1602 | 0.54 | WE 1602 | 0.89 | 2310 | 2.56 | 2324 | 2.55 | 2317 | 2.56 | 2324 | 2.55 | 11 1062 | 0.54 | WE 1602 | 0.89 | 11 0427 | 1.39 | 26 0605 | 1.47 | 12 0638 | 0.52 | 27 0555 | 0.60 | 13 0711 | 0.58 | 28 0629 | 0.50 | 14 0020 | 3.10 | 29 0707 | 0.47 | 15 0047 | 3.00 | 30 0021 | 3.47 |
| SA 1517 | 0.67 | SU 1606 | 0.63 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | 1620 | 1.24 | | | | | | | | |
| 2242 | 2.39 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | 2322 | 2.55 | | | | | | |
| 12 0243 | 1.96 | 27 0359 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

2019

LAT 10° 35' S LONG 142° 13' E

Times and Heights of High and Low Waters

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0140 | 3.26 | 16 0026 | 2.49 | 1 0144 | 2.53 | 16 0419 | 1.28 | 1 0417 | 1.11 | 16 0428 | 0.99 | 1 0251 | 0.88 | 16 0256 | 1.22 |
| 0911 | 0.82 | 16 1625 | 1.45 | 0914 | 1.29 | 16 1316 | 2.34 | 1901 | 2.67 | 1455 | 2.68 | 11122 | 2.46 | 0439 | 1.14 |
| SU 1400 | 1.93 | MO 2341 | 2.37 | TU 1427 | 2.25 | WE 1639 | 1.90 | FR * | | SA | | SU 1321 | 2.44 | MO 1604 | 3.01 |
| 1635 | 1.48 | * | | 2153 | 1.59 | 2302 | 1.99 | | | | | 1722 | 2.69 | | |
| 2 0218 | 2.95 | 17 0458 | 1.56 | 2 0213 | 2.05 | 17 0432 | 1.14 | 2 0327 | 0.82 | 17 0441 | 0.98 | 2 0258 | 0.70 | 17 0104 | 0.90 |
| 1000 | 1.03 | 17 1325 | 1.92 | 1005 | 1.57 | 1153 | 2.32 | 1006 | 2.36 | 1637 | 2.66 | 1039 | 2.59 | 17 1715 | 2.94 |
| MO 1446 | 1.87 | TU 1642 | 1.53 | WE 1911 | 2.34 | TH 1653 | 2.02 | SA 1353 | 2.13 | SU 1951 | 2.76 | MO 1436 | 2.28 | TU 1929 | 2.64 |
| * 1649 | 1.63 | 2336 | 2.25 | * | | 1850 | 2.11 | | | | | | | | |
| 3 0254 | 2.51 | 18 0504 | 1.40 | 3 0450 | 1.41 | 18 0448 | 1.02 | 3 0333 | 0.54 | 18 0256 | 0.89 | 3 0324 | 0.59 | 18 0206 | 0.73 |
| 1105 | 1.23 | 18 1141 | 1.93 | 0834 | 2.00 | 1200 | 2.31 | 1028 | 2.54 | 1053 | 2.40 | 1054 | 2.70 | 18 1032 | 2.46 |
| TU 2000 | 2.13 | WE 1653 | 1.64 | TH 1225 | 1.78 | FR 1703 | 2.15 | SU 1452 | 1.99 | MO 1343 | 2.31 | TU 1519 | 2.14 | WE 1337 | 2.23 |
| 2341 | 1.77 | 2321 | 2.11 | 2001 | 2.61 | 1916 | 2.28 | 2032 | 2.80 | 1854 | 2.78 | 2016 | 2.60 | 1857 | 2.88 |
| 4 0755 | 2.06 | 19 0515 | 1.24 | 4 0359 | 1.03 | 19 0501 | 0.95 | 4 0354 | 0.37 | 19 0302 | 0.66 | 4 0350 | 0.55 | 19 0255 | 0.61 |
| 1257 | 1.33 | 19 1124 | 1.97 | 0940 | 2.22 | 1128 | 2.28 | 1055 | 2.64 | 1047 | 2.45 | 1112 | 2.74 | 19 1037 | 2.62 |
| WE 2046 | 2.49 | TH 1656 | 1.76 | FR 1408 | 1.74 | SA 1417 | 2.17 | MO 1532 | 1.87 | TU 1424 | 2.12 | WE 1552 | 2.04 | TH 1451 | 2.03 |
| | | 2039 | 2.24 | 2045 | 2.83 | 1942 | 2.47 | 2102 | 2.80 | 1939 | 2.90 | 2051 | 2.54 | ● 2004 | 2.80 |
| 5 0325 | 1.44 | 20 0527 | 1.11 | 5 0402 | 0.63 | 20 0443 | 0.88 | 5 0419 | 0.31 | 20 0330 | 0.50 | 5 0414 | 0.58 | 20 0336 | 0.57 |
| 0919 | 2.13 | 20 1044 | 2.07 | 1025 | 2.39 | 1057 | 2.33 | 1120 | 2.63 | 1054 | 2.51 | 1128 | 2.74 | 20 1058 | 2.78 |
| TH 1419 | 1.32 | FR 1439 | 1.79 | SA 1506 | 1.65 | SU 1436 | 2.05 | 1604 | 1.80 | WE 1507 | 1.93 | 1622 | 1.95 | FR 1550 | 1.83 |
| 2125 | 2.80 | 2053 | 2.44 | 2120 | 2.96 | 2007 | 2.67 | 2126 | 2.76 | ● 2021 | 2.97 | 2115 | 2.46 | 2055 | 2.66 |
| 6 0419 | 0.96 | 21 0527 | 1.01 | 6 0423 | 0.37 | 21 0402 | 0.71 | 6 0445 | 0.37 | 21 0402 | 0.42 | 6 0434 | 0.68 | 21 0413 | 0.62 |
| 1020 | 2.22 | 21 1058 | 2.15 | 1101 | 2.47 | 1101 | 2.37 | 1141 | 2.57 | 1111 | 2.55 | 1139 | 2.74 | 21 1120 | 2.92 |
| FR 1517 | 1.30 | SA 1456 | 1.73 | SU 1547 | 1.58 | MO 1458 | 1.91 | 1632 | 1.76 | TH 1552 | 1.76 | 1650 | 1.87 | SA 1646 | 1.63 |
| ● 2157 | 3.01 | 2109 | 2.63 | 2146 | 3.00 | ● 2031 | 2.86 | 2147 | 2.70 | 2102 | 2.96 | 2133 | 2.37 | 2141 | 2.48 |
| 7 0447 | 0.60 | 22 0458 | 0.87 | 7 0448 | 0.25 | 22 0408 | 0.52 | 7 0509 | 0.50 | 22 0436 | 0.43 | 7 0449 | 0.82 | 22 0449 | 0.75 |
| 1106 | 2.25 | 22 1113 | 2.18 | 1132 | 2.43 | 1108 | 2.36 | 1151 | 2.49 | 1128 | 2.59 | 1147 | 2.75 | 22 1136 | 3.05 |
| SA 1601 | 1.30 | SU 1517 | 1.66 | MO 1621 | 1.56 | TU 1527 | 1.76 | 1657 | 1.74 | FR 1639 | 1.62 | 1719 | 1.80 | SU 1738 | 1.44 |
| 2223 | 3.11 | ● 2124 | 2.82 | 2206 | 2.98 | 2056 | 3.02 | 2205 | 2.62 | 2144 | 2.87 | 2153 | 2.24 | 2224 | 2.27 |
| 8 0514 | 0.39 | 23 0447 | 0.68 | 8 0515 | 0.26 | 23 0432 | 0.40 | 8 0530 | 0.68 | 23 0510 | 0.54 | 8 0502 | 0.96 | 23 0521 | 0.93 |
| 1143 | 2.19 | 23 1124 | 2.15 | 1155 | 2.33 | 1122 | 2.32 | 1722 | 1.72 | SA 1727 | 1.50 | 1153 | 2.78 | 23 1146 | 3.19 |
| SU 1637 | 1.33 | MO 1543 | 1.57 | 1650 | 1.56 | WE 1603 | 1.62 | 2223 | 2.52 | 2225 | 2.71 | 1751 | 1.72 | MO 1829 | 1.26 |
| 2242 | 3.13 | 2140 | 3.01 | 2226 | 2.94 | 2128 | 3.13 | | | | | 2218 | 2.11 | 2306 | 2.05 |
| 9 0543 | 0.32 | 24 0502 | 0.52 | 9 0543 | 0.39 | 24 0503 | 0.36 | 9 0546 | 0.88 | 24 0543 | 0.71 | 9 0515 | 1.10 | 24 0551 | 1.13 |
| 1209 | 2.07 | 24 1132 | 2.08 | 1201 | 2.21 | 1124 | 2.29 | 1156 | 2.43 | 1141 | 2.80 | 1154 | 2.84 | 24 1209 | 3.32 |
| MO 1708 | 1.39 | TU 1616 | 1.46 | 1715 | 1.57 | TH 1644 | 1.49 | 1749 | 1.71 | SU 1817 | 1.40 | 1826 | 1.63 | TU 1918 | 1.12 |
| 2301 | 3.11 | 2202 | 3.18 | 2247 | 2.87 | 2206 | 3.17 | 2242 | 2.40 | 2307 | 2.49 | 2244 | 1.99 | 2346 | 1.86 |
| 10 0613 | 0.38 | 25 0530 | 0.42 | 10 0609 | 0.59 | 25 0536 | 0.41 | 10 0559 | 1.07 | 25 0615 | 0.93 | 10 0529 | 1.23 | 25 0612 | 1.33 |
| 1212 | 1.94 | 25 1122 | 2.04 | 1158 | 2.13 | 1120 | 2.33 | 1158 | 2.48 | 1209 | 2.95 | 1159 | 2.95 | 25 1240 | 3.39 |
| TU 1734 | 1.44 | WE 1654 | 1.36 | 1737 | 1.59 | FR 1728 | 1.40 | 1819 | 1.69 | MO 1907 | 1.32 | 1904 | 1.54 | WE 2007 | 1.03 |
| 2324 | 3.06 | 2235 | 3.31 | 2308 | 2.78 | 2247 | 3.12 | 2303 | 2.26 | 2347 | 2.23 | 2313 | 1.88 | | |
| 11 0643 | 0.53 | 26 0604 | 0.40 | 11 0631 | 0.82 | 26 0612 | 0.54 | 11 0608 | 1.22 | 26 0643 | 1.16 | 11 0254 | 1.31 | 26 0024 | 1.69 |
| 1209 | 1.86 | 26 1125 | 2.08 | 1201 | 2.10 | 1141 | 2.44 | 1206 | 2.57 | 1243 | 3.06 | 1216 | 3.05 | 26 0307 | 1.37 |
| WE 1754 | 1.49 | TH 1735 | 1.28 | 1756 | 1.61 | SA 1814 | 1.35 | 1852 | 1.68 | TU 2001 | 1.26 | 1945 | 1.45 | 26 1316 | 3.38 |
| 2348 | 2.98 | 2314 | 3.37 | 2325 | 2.66 | 2327 | 2.98 | 2324 | 2.12 | | | 2346 | 1.78 | 26 2055 | 1.00 |
| 12 0711 | 0.74 | 27 0640 | 0.45 | 12 0649 | 1.04 | 27 0646 | 0.73 | 12 0614 | 1.33 | 27 0024 | 1.94 | 12 0309 | 1.20 | 27 0059 | 1.54 |
| 1215 | 1.84 | 27 1151 | 2.15 | 1206 | 2.13 | 1212 | 2.55 | 1224 | 2.66 | 0701 | 1.40 | 1243 | 3.12 | 27 0327 | 1.28 |
| TH 1802 | 1.52 | FR 1817 | 1.23 | 1815 | 1.63 | SU 1901 | 1.34 | 1931 | 1.66 | WE 1323 | 3.10 | 2031 | 1.36 | FR 1353 | 3.29 |
| 2354 | 3.34 | 2354 | 3.34 | 2340 | 2.54 | | | 2346 | 1.98 | ● 2101 | 1.20 | | | 2147 | 1.02 |
| 13 0010 | 2.87 | 28 0718 | 0.58 | 13 0701 | 1.23 | 28 0006 | 2.73 | 13 0335 | 1.23 | 28 0057 | 1.65 | 13 0022 | 1.67 | 28 0130 | 1.41 |
| 0736 | 0.97 | 28 1224 | 2.21 | 1218 | 2.19 | 0720 | 0.97 | 1245 | 2.74 | 0342 | 1.28 | 0333 | 1.13 | 28 0348 | 1.22 |
| FR 1222 | 1.85 | SA 1902 | 1.25 | 1837 | 1.66 | MO 1249 | 2.65 | 2018 | 1.64 | TH 1406 | 3.06 | 1318 | 3.15 | SA 1431 | 3.14 |
| 1528 | 1.47 | | | 2351 | 2.40 | ● 1951 | 1.36 | | | 2216 | 1.14 | 2123 | 1.28 | 2247 | 1.06 |
| 14 0027 | 2.75 | 29 0033 | 3.19 | 14 0707 | 1.37 | 29 0043 | 2.41 | 14 0012 | 1.82 | 29 0125 | 1.37 | 14 0102 | 1.54 | 29 0156 | 1.28 |
| 0756 | 1.18 | 29 0756 | 0.78 | 1235 | 2.26 | 0750 | 1.23 | 0350 | 1.11 | 0357 | 1.17 | 0358 | 1.10 | 29 0405 | 1.18 |
| SA 1234 | 1.88 | SU 1302 | 2.26 | MO 1907 | 1.70 | TU 1329 | 2.70 | 1312 | 2.76 | 1455 | 2.96 | 1404 | 3.13 | SU 1509 | 2.96 |
| ○ 1544 | 1.41 | ● 1948 | 1.32 | 2351 | 2.26 | 2050 | 1.40 | 2341 | 1.04 | | | 2225 | 1.19 | | |
| 15 0036 | 2.62 | 30 0111 | 2.91 | 15 0705 | 1.47 | 30 0115 | 2.03 | 15 0409 | 1.03 | 30 0147 | 1.12 | 15 0148 | 1.39 | 30 0408 | 1.13 |
| 0811 | 1.36 | 30 0834 | 1.02 | 1255 | 2.32 | 0411 | 1.49 | 1349 | 2.74 | 0357 | 1.06 | 0422 | 1.10 | 30 1548 | 2.75 |
| SU 1251 | 1.91 | MO 1342 | 2.28 | TU 1947 | 1.77 | WE 1413 | 2.68 | 2256 | 2.14 | 1557 | 2.81 | 1501 | 3.08 | MO | |
| 1604 | 1.41 | 2041 | 1.46 | | | 2211 | 1.40 | | | | | 2345 | 1.07 | | |
| | | | | 31 | 0139 | 1.61 | | | | | | | | | |
| | | | | 0420 | 1.32 | TH 1800 | 2.53 | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

Tidal Stream Predictions (Rates in knots)

2019

Time Zone –1000

JANUARY

| | Slack Maximum Time | Time Rate | Slack Maximum Time | Time Rate |
|-----------|--------------------|-----------|--------------------|-----------------|
| 1 | 0313 0540 | 0.40 | 16 | 0132 2.87 |
| | 0648 0926 -3.30 | | | 0638 0742 -0.23 |
| TU | 1201 1541 5.70 | | WE | 0845 1357 3.26 |
| | 1915 2158 -3.72 | | | 1830 2022 -0.81 |
| | 2213 | | | |
| 2 | 0040 0417 5.95 | | 17 | 0245 3.49 |
| | 0759 1029 -3.21 | | | 0731 0851 -0.45 |
| WE | 1300 1635 5.64 | | TH | 1011 1454 3.68 |
| | 2002 2250 -4.13 | | | 1855 2117 -1.67 |
| | 2336 | | | |
| 3 | 0136 0515 6.37 | | 18 | 0346 4.33 |
| | 0901 1125 -3.02 | | | 0813 0951 -0.87 |
| TH | 1351 1723 5.46 | | FR | 1129 1545 4.26 |
| | 2045 2337 -4.34 | | | 1928 2208 -2.67 |
| 4 | 0225 0605 6.55 | | 19 | 0043 0440 5.27 |
| | 0959 1215 -2.69 | | | 0853 1044 -1.40 |
| FR | 1434 1805 5.16 | | SA | 1234 1635 4.94 |
| | 2124 | | | 2007 2257 -3.70 |
| 5 | 0019 -4.32 | | 20 | 0142 0530 6.19 |
| | 0309 0650 6.49 | | | 0934 1133 -1.93 |
| SA | 1052 1259 -2.25 | | SU | 1332 1724 5.62 |
| | 1510 1844 4.77 | | | 2049 2345 -4.63 |
| | 2200 | | | |
| 6 | 0057 -4.09 | | 21 | 0236 0618 6.97 |
| | 0347 0731 6.20 | | | 1018 1222 -2.40 |
| SU | 1142 1338 -1.73 | | MO | 1427 1813 6.21 |
| | 1539 1916 4.35 | | | 2135 |
| | 2235 | | | |
| 7 | 0130 -3.71 | | 22 | 0034 -5.34 |
| | 0420 0808 5.76 | | | 0330 0707 7.53 |
| MO | 1230 1413 -1.19 | | TU | 1104 1311 -2.73 |
| | 1559 1945 3.94 | | | 1519 1902 6.60 |
| | 2307 | | | 2224 |
| 8 | 0200 -3.24 | | 23 | 0125 -5.72 |
| | 0449 0840 5.25 | | | 0758 7.78 |
| TU | 1319 1443 -0.70 | | WE | 1154 1402 -2.90 |
| | 1610 2011 3.59 | | | 1613 1954 6.74 |
| | 2338 | | | 2317 |
| 9 | 0229 -2.74 | | 24 | 0217 -5.72 |
| | 0513 0910 4.73 | | | 0515 0850 7.72 |
| WE | 1411 1510 -0.30 | | TH | 1246 1456 -2.88 |
| | 1610 2035 3.29 | | | 1707 2050 6.61 |
| | | | | |
| 10 | 0010 0254 -2.25 | | 25 | 0016 0313 -5.32 |
| | 0534 0937 4.25 | | | 0608 0945 7.36 |
| TH | 1535 0.00 | | FR | 1344 1553 -2.72 |
| | 2100 3.06 | | | 1805 2150 6.26 |
| | | | | |
| 11 | 0045 0321 -1.78 | | 26 | 0121 0414 -4.61 |
| | 0553 1004 3.84 | | | 0704 1045 6.81 |
| FR | 1602 0.20 | | SA | 1445 1657 -2.50 |
| | 2128 2.87 | | | 1910 2259 5.81 |
| | | | | |
| 12 | 0128 0351 -1.33 | | 27 | 0237 0521 -3.74 |
| | 0612 1035 3.50 | | | 0804 1151 6.19 |
| SA | 1635 0.31 | | SU | 1553 1807 -2.36 |
| | 2205 2.70 | | | 2023 |
| | | | | |
| 13 | 0222 0429 -0.91 | | 28 | 0015 5.46 |
| | 0633 1112 3.23 | | | 0636 -2.93 |
| SU | 1717 0.32 | | MO | 0909 1301 5.67 |
| | 2258 2.57 | | | 1700 1921 -2.42 |
| | 2143 | | | |
| 14 | 0336 0519 -0.53 | | 29 | 0139 5.40 |
| | 0700 1159 3.07 | | | 0536 0758 -2.40 |
| MO | 1814 0.18 | | TU | 1019 1415 5.36 |
| | 2302 | | | 1805 2034 -2.71 |
| | | | | 2307 |
| 15 | 0010 2.58 | | 30 | 0300 5.68 |
| | 0513 0626 -0.26 | | | 0701 0915 -2.19 |
| TU | 0738 1256 3.06 | | WE | 1130 1522 5.23 |
| | 1820 1919 -0.18 | | | 1903 2140 -3.12 |
| | 2018 | | | |
| | | | | |
| 31 | 0014 0409 6.11 | | | |
| | 0815 1023 -2.15 | | | |
| TH | 1233 1621 5.20 | | | 1954 2237 -3.49 |
| | | | | |

FEBRUARY

| | Slack Maximum Time | Time Rate | Slack Maximum Time | Time Rate |
|-----------|--------------------|-----------|--------------------|-----------------|
| 1 | 0115 0507 6.47 | | 16 | 0326 4.40 |
| | 0915 1120 -2.12 | | | 0813 0932 -0.54 |
| FR | 1328 1712 5.15 | | SU | 1051 1520 4.05 |
| | 2039 2325 -3.70 | | | 1900 2147 -2.80 |
| | | | | |
| 2 | 0205 0557 6.63 | | 17 | 0027 0425 5.41 |
| | 1008 1208 -1.98 | | | 0845 1030 -1.29 |
| SA | 1412 1754 5.01 | | SU | 1216 1619 4.92 |
| | 2120 | | | 1947 2243 -3.96 |
| | | | | |
| 3 | 0007 -3.72 | | 18 | 0130 0517 6.41 |
| | 0248 0639 6.55 | | | 0920 1121 -2.09 |
| SU | 1054 1248 -1.74 | | MO | 1323 1712 5.82 |
| | 1445 1830 4.83 | | | 2035 2334 -5.00 |
| | 2156 | | | |
| 4 | 0043 -3.57 | | 19 | 0228 0606 7.24 |
| | 0324 0715 6.27 | | | 1000 1210 -2.83 |
| MO | 1135 1321 -1.42 | | TU | 1421 1802 6.61 |
| | 1511 1900 4.60 | | | 2124 |
| | 2229 | | | |
| 5 | 0113 -3.28 | | 20 | 0025 -5.75 |
| | 0353 0745 5.86 | | | 0320 0654 7.79 |
| TU | 1212 1348 -1.09 | | WE | 1042 1258 -3.40 |
| | 1528 1926 4.38 | | | 1515 1853 7.15 |
| | 2259 | | | 2215 |
| 6 | 0140 -2.93 | | 21 | 0115 -6.11 |
| | 0416 0811 5.40 | | | 0411 0742 7.98 |
| WE | 1245 1411 -0.80 | | TH | 1126 1346 -3.73 |
| | 1539 1947 4.18 | | | 1608 1945 7.36 |
| | 2326 | | | 2308 |
| 7 | 0202 -2.56 | | 22 | 0205 -6.00 |
| | 0436 0833 4.95 | | | 0501 0830 7.79 |
| TH | 1314 1430 -0.57 | | FR | 1213 1436 -3.80 |
| | 1547 2008 4.03 | | | 1700 2038 7.22 |
| | 2354 | | | |
| 8 | 0224 -2.19 | | 23 | 0006 0259 -5.44 |
| | 0453 0852 4.54 | | | 0552 0922 7.24 |
| FR | 1339 1447 -0.42 | | SA | 1304 1530 -3.61 |
| | 1556 2029 3.90 | | | 1756 2135 6.75 |
| | | | | |
| 9 | 0023 0246 -1.83 | | 24 | 0110 0356 -4.53 |
| | 0509 0912 4.18 | | | 0644 1016 6.43 |
| SU | 1403 1506 -0.33 | | SU | 1400 1628 -3.24 |
| | 1611 2053 3.77 | | | 1856 2240 6.11 |
| | | | | |
| 10 | 0059 0312 -1.45 | | 25 | 0223 0500 -3.45 |
| | 0524 0934 3.86 | | | 0740 1118 5.53 |
| SU | 1429 1530 -0.29 | | MO | 1504 1733 -2.84 |
| | 1633 2124 3.61 | | | 2004 2354 5.49 |
| | | | | |
| 11 | 0144 0342 -1.04 | | 26 | 0351 0615 -2.46 |
| | 0541 1001 3.56 | | | 0844 1229 4.73 |
| MO | 1500 1603 -0.28 | | TU | 1614 1848 -2.59 |
| | 1708 2206 3.41 | | | 2121 |
| | | | | |
| 12 | 0247 0423 -0.59 | | 27 | 0119 5.16 |
| | 0558 1039 3.29 | | | 0741 -1.85 |
| TU | 1541 1651 -0.30 | | WE | 0957 1346 4.24 |
| | 1802 2307 3.20 | | | 1727 2006 -2.63 |
| | 2243 | | | |
| 13 | 0432 0522 -0.14 | | 28 | 0244 5.25 |
| | 0612 1134 3.07 | | | 0657 0904 -1.70 |
| WE | 1631 1800 -0.44 | | TH | 1115 1501 4.10 |
| | 1929 | | | 1832 2118 -2.91 |
| | 2357 | | | |
| 14 | 0033 3.17 | | | |
| | 0646 0613 | | | |
| TH | 1250 3.05 | | | |
| | 1724 1925 -0.87 | | | 2124 |
| | | | | |
| 15 | 0209 3.58 | | | |
| | 0818 -0.01 | | | |
| FR | 1412 3.38 | | | |
| | 1813 2043 -1.71 | | | 2307 |
| | | | | |
| 31 | 0014 0409 6.11 | | | |
| | 0815 1023 -2.15 | | | |
| TH | 1233 1621 5.20 | | | |
| | 1954 2237 -3.49 | | | |
| | | | | |

MARCH

| | Slack Maximum Time | Time Rate | Slack Maximum Time | Time Rate |
|----------|--------------------|-----------|--------------------|-----------------|
| 1 | 0355 0557 | | 16 | 0152 3.34 |
| | 0806 1014 -1.84 | | | 0644 0805 -0.42 |
| FR | 1224 1604 4.19 | | SA | 0929 1347 2.70 |
| | 1929 2217 -3.25 | | | 2316 |
| | | | | |
| 2 | 0100 0452 5.86 | | 17 | 0312 4.14 |
| | 0900 1108 -2.00 | | | 0728 0922 -1.14 |
| SA | 1320 1655 4.32 | | SU | 1117 1506 3.46 |
| | 2015 2306 -3.50 | | | |
| | | | | |
| 3 | 0150 0539 5.97 | | 18 | 0031 0412 5.12 |
| | 0943 1150 -2.07 | | | 0806 1019 -2.08 |
| SU | 1402 1736 4.40 | | MO | 1234 1608 4.47 |
| | 2055 2346 -3.58 | | | 1919 2230 -4.73 |
| | | | | |
| 4 | 0231 0616 5.89 | | 19 | 0132 0503 6.05 |
| | 1018 1225 -2.03 | | | 0845 1109 -3.06 |
| MO | 1436 1810 4.40 | | TU | 1335 1702 5.49 |
| | 2130 | | | 2014 2323 -5.68 |
| | | | | |
| 5 | 0020 -3.52 | | 20 | 0227 0550 6.76 |
| | 0304 0647 5.63 | | | 0924 1156 -3.94 |
| TU | 1048 1253 -1.91 | | WE | 1429 1754 6.34 |
| | 1500 1838 4.36 | | | 2105 |
| | 2200 | | | |
| 6 | 0048 -3.35 | | 21 | 0013 -6.29 |
| | 0332 0713 5.29 | | | 0316 0636 7.15 |
| WE | 1113 1315 -1.77 | | TH | 1004 1242 -4.60 |
| | 1521 1901 4.29 | | | 1520 1844 6.89 |
| | 2227 | | | 2158 |
| 7 | 0112 -3.13 | | 22 | 0102 -6.46 |
| | 0355 0734 4.91 | | | 0405 0722 7.16 |
| TH | 1132 1333 -1.65 | | FR | 1045 1328 -4.97 |
| | 1538 1922 4.22 | | | 1611 1934 7.06 |
| | 2252 | | | 2347 |
| 8 | 0134 -2.88 | | 23 | 0152 -6.16 |
| | 0415 0753 4.54 | | | 0454 0808 6.78 |
| FR | 1147 1350 -1.58 | | SU | 1129 1415 -5.01 |
| | 1554 1943 4.16 | | | 1702 2026 6.83 |
| | 2316 | | | |
| 9 | 0156 -2.61 | | 24 | 0244 -5.45 |
| | 0434 0810 4.19 | | | 0543 0857 6.06 |
| SU | 1201 1407 -1.56 | | MO | 1215 1505 -4.74 |
| | 1613 2004 4.10 | | | 1756 212 |

AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

Tidal Stream Predictions (Rates in knots)

2019

Time Zone -1000

| APRIL | | | | MAY | | | | JUNE | | | | | | | |
|-----------|-------|---------|-------|-----------|---------|-------|-------|-----------|---------|-------|-------|-----------|------|-------|-------|
| | Slack | Maximum | Time | Slack | Maximum | Time | Time | Slack | Maximum | Time | Time | Rate | | | |
| 1 | 0137 | 0507 | 4.65 | 16 | 0041 | 0356 | 4.60 | 1 | 0157 | 0455 | 3.09 | 16 | 0136 | 0429 | 4.49 |
| MO | 0847 | 1121 | -2.61 | | 0718 | 1006 | -3.40 | 1 | 0756 | 1107 | -3.33 | 16 | 0723 | 1041 | -5.50 |
| | 1402 | 1709 | 3.26 | TU | 1257 | 1600 | 3.87 | WE | 1426 | 1702 | 2.30 | TH | 1359 | 1647 | 4.29 |
| | 2007 | 2315 | -3.70 | | 1849 | 2218 | -5.60 | | 1936 | 2306 | -3.84 | | 1932 | 2301 | -6.30 |
| 2 | 0215 | 0541 | 4.57 | 17 | 0136 | 0446 | 5.30 | 2 | 0229 | 0521 | 3.03 | 17 | 0227 | 0516 | 4.67 |
| TU | 0915 | 1151 | -2.73 | | 0801 | 1055 | -4.40 | 2 | 0815 | 1130 | -3.58 | 17 | 0805 | 1128 | -6.20 |
| | 1432 | 1741 | 3.44 | WE | 1350 | 1654 | 4.86 | TH | 1448 | 1730 | 2.61 | FR | 1448 | 1740 | 4.88 |
| | 2041 | 2347 | -3.74 | | 1949 | 2312 | -6.25 | | 2010 | 2335 | -3.91 | | 2031 | 2353 | -6.29 |
| 3 | 0248 | 0609 | 4.40 | 18 | 0228 | 0533 | 5.76 | 3 | 0257 | 0545 | 2.95 | 18 | 0315 | 0601 | 4.58 |
| WE | 0937 | 1215 | -2.80 | | 0843 | 1141 | -5.25 | 3 | 0833 | 1152 | -3.83 | 18 | 0845 | 1213 | -6.63 |
| | 1458 | 1807 | 3.57 | TU | 1440 | 1745 | 5.62 | FR | 1511 | 1757 | 2.89 | SA | 1536 | 1830 | 5.17 |
| | 2110 | | | | 2045 | | | | 2042 | | | | 2127 | | |
| 4 | 0015 | -3.69 | | 19 | 0001 | -6.56 | | 4 | 0003 | -3.93 | | 19 | 0043 | -5.98 | |
| TH | 0316 | 0631 | 4.16 | | 0316 | 0618 | 5.90 | 4 | 0324 | 0607 | 2.86 | 19 | 0403 | 0645 | 4.24 |
| | 0954 | 1235 | -2.86 | FR | 0922 | 1226 | -5.85 | SA | 0850 | 1214 | -4.10 | SU | 0924 | 1257 | -6.77 |
| | 1519 | 1830 | 3.68 | ● | 1529 | 1835 | 6.05 | | 1534 | 1823 | 3.14 | ○ | 1625 | 1920 | 5.13 |
| | 2137 | | | | 2139 | | | | 2114 | | | | 2221 | | |
| 5 | 0040 | -3.60 | | 20 | 0050 | -6.47 | | 5 | 0030 | -3.90 | | 20 | 0131 | -5.42 | |
| FR | 0341 | 0652 | 3.91 | | 0403 | 0702 | 5.70 | 5 | 0350 | 0630 | 2.77 | 20 | 0451 | 0728 | 3.68 |
| ● | 1009 | 1254 | -2.93 | SA | 1002 | 1311 | -6.13 | SU | 0908 | 1237 | -4.37 | MO | 1000 | 1341 | -6.62 |
| | 1540 | 1853 | 3.75 | | 1618 | 1925 | 6.11 | ● | 1600 | 1853 | 3.33 | | 1715 | 2010 | 4.79 |
| | 2203 | | | | 2233 | | | | 2147 | | | | 2315 | | |
| 6 | 0103 | -3.46 | | 21 | 0140 | -6.00 | | 6 | 0100 | -3.80 | | 21 | 0221 | -4.68 | |
| SA | 0403 | 0711 | 3.65 | | 0451 | 0746 | 5.18 | 6 | 0417 | 0655 | 2.67 | 21 | 0541 | 0811 | 2.96 |
| | 1022 | 1312 | -3.01 | TU | 1042 | 1357 | -6.08 | MO | 0929 | 1304 | -4.62 | TU | 1036 | 1425 | -6.21 |
| | 1601 | 1916 | 3.80 | | 1708 | 2015 | 5.81 | | 1632 | 1926 | 3.43 | | 1806 | 2100 | 4.24 |
| | 2230 | | | | 2328 | | | | 2225 | | | | 2347 | | |
| 7 | 0127 | -3.27 | | 22 | 0230 | -5.21 | | 7 | 0132 | -3.60 | | 22 | 0009 | 0313 | -3.88 |
| SU | 0426 | 0730 | 3.41 | | 0540 | 0831 | 4.40 | 7 | 0447 | 0723 | 2.53 | 22 | 0634 | 0855 | 2.18 |
| | 1036 | 1332 | -3.12 | MO | 1122 | 1444 | -5.73 | TU | 0953 | 1335 | -4.81 | WE | 1110 | 1511 | -5.62 |
| | 1627 | 1943 | 3.79 | | 1801 | 2110 | 5.21 | | 1710 | 2003 | 3.42 | | 1900 | 2155 | 3.58 |
| | 2300 | | | | 2306 | | | | 2306 | | | | | | |
| 8 | 0152 | -3.01 | | 23 | 0027 | 0324 | -4.24 | 8 | 0210 | 0210 | -3.30 | 23 | 0105 | 0408 | -3.13 |
| MO | 0449 | 0752 | 3.16 | | 0632 | 0919 | 3.47 | 8 | 0522 | 0756 | 2.34 | 23 | 0735 | 0942 | 1.42 |
| | 1053 | 1357 | -3.22 | TU | 1203 | 1533 | -5.15 | WE | 1023 | 1414 | -4.88 | TH | 1142 | 1600 | -4.94 |
| | 1656 | 2013 | 3.70 | | 1859 | 2208 | 4.47 | | 1755 | 2048 | 3.27 | | 1958 | 2252 | 2.93 |
| | 2335 | | | | 2355 | | | | 2355 | | | | | | |
| 9 | 0222 | -2.67 | | 24 | 0131 | 0425 | -3.27 | 9 | 0254 | 0254 | -2.92 | 24 | 0204 | 0510 | -2.55 |
| TU | 0515 | 0817 | 2.88 | | 0732 | 1013 | 2.51 | 9 | 0605 | 0837 | 2.07 | 24 | 0851 | 1035 | 0.76 |
| | 1115 | 1427 | -3.28 | WE | 1248 | 1630 | -4.47 | TH | 1100 | 1500 | -4.82 | FR | 1214 | 1655 | -4.27 |
| | 1734 | 2050 | 3.49 | | 2002 | 2315 | 3.74 | | 1850 | 2144 | 3.02 | | 2100 | 2354 | 2.40 |
| | 2110 | | | | 2229 | | | | 2229 | | | | | | |
| 10 | 0018 | 0259 | -2.23 | 25 | 0245 | 0536 | -2.49 | 10 | 0054 | 0350 | -2.52 | 25 | 0305 | 0619 | -2.24 |
| WE | 0545 | 0848 | 2.57 | | 0846 | 1115 | 1.68 | 10 | 0700 | 0929 | 1.73 | 25 | 1029 | 1139 | 0.29 |
| | 1144 | 1505 | -3.24 | TU | 1339 | 1735 | -3.85 | FR | 1147 | 1559 | -4.66 | SA | 1247 | 1756 | -3.73 |
| | 1822 | 2139 | 3.18 | | 2114 | | | | 1957 | 2252 | 2.80 | | 2207 | | |
| | 2220 | | | | 2229 | | | | 2229 | | | | | | |
| 11 | 0115 | 0345 | -1.73 | 26 | 0030 | 0320 | | 11 | 0206 | 0502 | -2.24 | 26 | 0059 | 0408 | -2.05 |
| TH | 0625 | 0931 | 2.21 | | 0406 | 0659 | -2.11 | 11 | 0815 | 1038 | 1.42 | 26 | 0730 | 1204 | -2.23 |
| | 1225 | 1557 | -3.11 | FR | 1017 | 1233 | 1.15 | SA | 1249 | 1712 | -4.52 | SA | 1204 | 1252 | 0.12 |
| | 1924 | 2245 | 2.84 | | 1442 | 1849 | -3.45 | | 2113 | 1337 | 1.90 | | 1337 | 1901 | -3.39 |
| | 2215 | | | | 2229 | | | | 2113 | | | | 2310 | | |
| 12 | 0231 | 0453 | -1.26 | 27 | 0147 | 0147 | | 12 | 0012 | 0628 | -2.78 | 27 | 0158 | 0454 | -1.88 |
| FR | 0724 | 1032 | 1.83 | | 0521 | 0819 | -2.16 | 12 | 0327 | 0945 | 1.38 | 27 | 0828 | 0828 | -2.43 |
| | 1323 | 1710 | -3.01 | TU | 1144 | 1354 | 1.05 | SA | 1413 | 1836 | -4.62 | MO | 1256 | 1400 | 0.24 |
| | 2045 | | | | 1558 | 2003 | -3.34 | | 2230 | | | | 1504 | 2004 | -3.27 |
| | 2237 | | | | 2337 | | | | 2337 | | | | | | |
| 13 | 0012 | 0212 | 2.72 | 28 | 0254 | 0254 | | 13 | 0131 | 0443 | 3.08 | 28 | 0004 | 0247 | 1.83 |
| SA | 0407 | 0627 | -1.11 | | 0618 | 0921 | -2.45 | 13 | 0443 | 0748 | -2.85 | 28 | 0533 | 0912 | -2.73 |
| | 0855 | 1202 | 1.65 | MO | 1246 | 1501 | 1.27 | MO | 1107 | 1332 | 1.79 | TH | 1323 | 1456 | 0.56 |
| | 1445 | 1842 | -3.19 | | 1710 | 2105 | -3.43 | | 1547 | 1956 | -5.01 | | 1627 | 2057 | -3.31 |
| | 2215 | | | | 2340 | | | | 2340 | | | | | | |
| 14 | 0144 | 0144 | 3.07 | 29 | 0033 | 0345 | 3.08 | 14 | 0239 | 0545 | 3.58 | 29 | 0049 | 0327 | 1.84 |
| SU | 0531 | 0800 | -1.53 | | 0700 | 1006 | -2.77 | 14 | 0545 | 0855 | 3.69 | 29 | 0605 | 0946 | -3.07 |
| | 1037 | 1339 | 2.01 | MO | 1329 | 1551 | 1.61 | TU | 1213 | 1447 | 2.57 | WE | 1345 | 1540 | 0.97 |
| | 1619 | 2009 | -3.83 | | 1810 | 2155 | -3.59 | | 1715 | 2105 | -5.55 | | 1733 | 2140 | -3.42 |
| | 2335 | | | | 2206 | | | | 2206 | | | | 1826 | 2217 | -3.57 |
| | 2119 | 2119 | -4.72 | | 2233 | | | | 2233 | | | | | | |
| 15 | 0258 | 0258 | 3.78 | 30 | 0119 | 0424 | 3.11 | 15 | 0041 | 0337 | 4.10 | 30 | 0126 | 0400 | 1.89 |
| MO | 0630 | 0911 | -2.39 | | 0731 | 1040 | -3.07 | 15 | 0636 | 0950 | -4.63 | 30 | 0631 | 1015 | -3.46 |
| | 1156 | 1457 | 2.85 | TU | 1400 | 1630 | 1.97 | WE | 1308 | 1551 | 3.48 | TH | 1404 | 1615 | 1.42 |
| | 1742 | 2119 | -4.72 | | 1857 | 2233 | -3.73 | | 1828 | 2206 | -6.03 | | 1826 | 2217 | -3.57 |
| | 2119 | | | | 2233 | | | | 2233 | | | | | | |

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Positive (+) Direction 080° Negative (-) Direction 260°

Moon Phase Symbols

● New Moon

● First Quarter

Full Moon

● Last Quarter

AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

Tidal Stream Predictions (Rates in knots)

2019

Time Zone –1000

| JULY | | | | | | | | AUGUST | | | | | | | | SEPTEMBER | | | | | | | | |
|-----------|-------|---------|-------|-----------|---------|-------|----------|-----------|------|-------|-----------|-----------|-------|----------|----------|-----------|---------|-------|-----------|-----------|-----------|-------|---------|------|
| | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | | Slack | Maximum | |
| | Time | Time | Rate | Time | Time | Rate | Time | Time | Rate | Time | Time | Rate | Time | Time | Rate | Time | Time | Rate | Time | Time | Rate | Time | Time | |
| 1 | 0218 | 0443 | 2.01 | 16 | 0037 | -4.49 | 1 | 0302 | 0546 | 3.43 | 16 | 0139 | -3.55 | 1 | 0115 | 0152 | 16 | 0143 | 0143 | -3.32 | 16 | 0457 | 0738 | 2.49 |
| MO | 0700 | 1101 | -5.10 | | 0355 | 0623 | 2.90 | TH | 0819 | 1210 | -6.91 | FR | 0449 | 0719 | 2.46 | SU | 1001 | 1334 | -7.82 | MO | 1015 | 1349 | -4.03 | |
| | 1450 | 1730 | 2.92 | TU | 0845 | 1238 | -6.49 | ● | 1550 | 1844 | 4.73 | | 0943 | 1332 | -5.33 | | 1705 | 1959 | 5.65 | | 1725 | 2001 | 2.39 | |
| | 2016 | 2333 | -3.70 | | 1618 | 1914 | 4.46 | 2220 | | | | 1714 | 2003 | 3.48 | 2259 | | | | 2243 | | | | | |
| 2 | 0253 | 0522 | 2.39 | 17 | 0122 | -4.09 | 2 | 0045 | 044 | 4.44 | 17 | 0205 | -3.20 | 2 | 0202 | 0202 | 17 | 0159 | 0159 | -3.19 | 17 | 0516 | 0759 | 2.35 |
| TU | 0742 | 1142 | -5.81 | WE | 0438 | 0702 | 2.54 | FR | 0347 | 0635 | 3.97 | SA | 0515 | 0745 | 2.20 | MO | 1057 | 1427 | -7.45 | TU | 1039 | 1410 | -3.60 | |
| | 1529 | 1814 | 3.52 | ○ | 0921 | 1318 | -6.20 | | 1637 | 1931 | 5.12 | | 1744 | 2029 | 2.92 | | 1757 | 2048 | 5.29 | | 1745 | 2016 | 2.02 | |
| | 2107 | | | 2302 | | | 2235 | | | | 2326 | | | 2346 | | | | 2251 | | | | | | |
| 3 | 0016 | -3.93 | | 18 | 0202 | -3.62 | 3 | 0133 | 0436 | -4.76 | 18 | 0228 | 0809 | -2.90 | 3 | 0255 | 0901 | 5.10 | 18 | 0539 | 0821 | 2.20 | | |
| WE | 0330 | 0603 | 2.75 | TH | 0518 | 0738 | 2.15 | SA | 1004 | 1349 | -7.66 | SU | 1031 | 1424 | -4.32 | TU | 1156 | 1523 | -6.68 | WE | 1104 | 1432 | -3.16 | |
| ● | 0826 | 1225 | -6.43 | | 1743 | 2033 | 3.57 | | 1728 | 2021 | 5.23 | | 1811 | 2049 | 2.40 | | 1853 | 2142 | 4.64 | | 1807 | 2034 | 1.71 | |
| ● | 1611 | 1859 | 3.99 | | 2339 | | | 2325 | | | | 2340 | | | 2301 | | | | | | | | | |
| 4 | 0101 | -4.10 | | 19 | 0238 | -3.16 | 4 | 0224 | 0529 | -4.92 | 19 | 0246 | 0830 | 1.75 | 4 | 0036 | 0351 | -5.45 | 19 | 0607 | 0849 | 2.00 | | |
| TH | 0412 | 0647 | 3.04 | FR | 0555 | 0811 | 1.77 | SU | 1100 | 1442 | -7.49 | MO | 1054 | 1446 | -3.83 | WE | 1301 | 1626 | -5.67 | TH | 1134 | 1459 | -2.70 | |
| | 0913 | 1311 | -6.88 | | 1820 | 2107 | 3.00 | | 1821 | 2114 | 5.06 | | 1837 | 2109 | 1.95 | | 1956 | 2242 | 3.83 | | 1832 | 2055 | 1.41 | |
| | 2248 | | | | | | 2351 | | | | | | | 2316 | | | | | | | | | | |
| 5 | 0150 | -4.18 | | 20 | 0010 | 0310 | -2.74 | 5 | 0015 | 0318 | -4.92 | 20 | 0305 | 0250 | | 5 | 0130 | 0455 | -5.08 | 20 | 0303 | 0299 | | |
| FR | 0459 | 0735 | 3.19 | SA | 0630 | 0840 | 1.41 | MO | 0626 | 0915 | 4.25 | SU | 0626 | 0854 | 1.56 | WE | 0819 | 1116 | 4.01 | FR | 0646 | 0927 | 1.75 | |
| | 1002 | 1400 | -7.09 | | 1044 | 1458 | -4.65 | MO | 1159 | 1540 | -6.97 | TU | 1118 | 1510 | -3.36 | TH | 1416 | 1738 | -4.67 | FR | 1214 | 1533 | -2.21 | |
| | 1748 | 2038 | 4.41 | | 1857 | 2139 | 2.43 | | 1918 | 2210 | 4.65 | | 1903 | 2129 | 1.56 | | 2108 | 2350 | 3.05 | | 2339 | | | |
| 6 | 0242 | -4.18 | | 21 | 0035 | 0340 | -2.41 | 6 | 0110 | 0417 | -4.82 | 21 | 0001 | 0327 | -2.40 | 6 | 0231 | 0607 | -4.79 | 21 | 0344 | 0720 | -2.89 | |
| SA | 0551 | 0829 | 3.19 | WE | 0704 | 0909 | 1.10 | TH | 0730 | 1020 | 3.91 | WE | 0656 | 0922 | 1.36 | FR | 0940 | 1239 | 3.65 | WE | 1311 | 1626 | -1.68 | |
| | 1056 | 1454 | -7.03 | | 1106 | 1528 | -4.08 | | 1304 | 1643 | -6.21 | | 1146 | 1537 | -2.89 | ● | 1544 | 1902 | -3.96 | | 1957 | 2210 | 0.82 | |
| | 1843 | 2133 | 4.33 | | 1933 | 2208 | 1.91 | | 2021 | 2311 | 4.10 | | 1933 | 2152 | 1.24 | | 2230 | | | | | | | |
| 7 | 0037 | 0339 | -4.13 | 22 | 0057 | 0409 | -2.16 | 7 | 0207 | 0523 | -4.70 | 22 | 0015 | 0355 | -2.33 | 7 | 0341 | 0727 | -4.75 | 22 | 0016 | 0445 | -2.79 | |
| SU | 0650 | 0927 | 3.06 | MO | 0742 | 0939 | 0.84 | WE | 0844 | 1132 | 3.56 | TH | 1223 | 1614 | -2.41 | SA | 1102 | 1405 | 3.69 | SU | 1441 | 1752 | -1.32 | |
| | 1155 | 1553 | -6.73 | | 1130 | 1559 | -3.54 | | 1418 | 1754 | -5.39 | | 2011 | 2224 | 0.95 | | 1715 | 2028 | -3.74 | ● | 2121 | 2328 | 0.62 | |
| | 1943 | 2233 | 4.12 | | 2010 | 2238 | 1.47 | | | | | | | 2352 | | | | | | | | | | |
| 8 | 0136 | 0442 | -4.09 | 23 | 0116 | 0440 | -2.02 | 8 | 0310 | 0635 | -4.70 | 23 | 0038 | 0435 | -2.31 | 8 | 0453 | 0843 | -4.99 | 23 | 0124 | 0615 | -2.91 | |
| MO | 0759 | 1033 | 2.86 | WE | 0828 | 1015 | 0.62 | TH | 1003 | 1253 | 3.39 | FR | 1316 | 1705 | -1.96 | SU | 1216 | 1522 | 4.03 | MO | 1632 | 1938 | -1.46 | |
| | 1300 | 1659 | -6.26 | | 1159 | 1633 | -3.05 | | 1543 | 1914 | -4.75 | | 2104 | 2311 | 0.72 | | 1833 | 2142 | -3.86 | | 2257 | | | |
| | 2048 | 2338 | 3.85 | | 2051 | 2311 | 1.12 | | | | | | | | | | | | | | | | | |
| 9 | 0237 | 0551 | -4.17 | 24 | 0139 | 0517 | -1.96 | 9 | 0415 | 0750 | -4.90 | 24 | 0115 | 0536 | -2.36 | 9 | 0600 | 0947 | -5.34 | 24 | 0310 | 0747 | -3.49 | |
| TU | 0914 | 1147 | 2.73 | WE | 0924 | 1101 | 0.45 | FR | 1123 | 1415 | 3.54 | SA | 1441 | 1825 | -1.65 | MO | 1319 | 1624 | 4.39 | TU | 1145 | 1445 | 2.29 | |
| | 1416 | 1811 | -5.77 | | 1237 | 1717 | -2.62 | | 1711 | 2034 | -4.42 | | 2216 | | | | 1936 | 2241 | -4.06 | | 1754 | 2055 | -2.10 | |
| ● | 2157 | | | | 2140 | 2351 | 0.87 | | | | | | | | | | | | | | | | | |
| 10 | 0045 | 0363 | 3.63 | 25 | 0207 | 0606 | -2.04 | 10 | 0001 | 0242 | 3.00 | 25 | 0020 | 064 | | 10 | 0158 | 0430 | 2.73 | 25 | 0002 | 0233 | 1.56 | |
| WE | 0341 | 0702 | -4.45 | TH | 1028 | 1203 | 0.40 | MO | 0519 | 0900 | -5.29 | SU | 0218 | 0657 | -2.66 | WE | 0656 | 1042 | -5.61 | WE | 1244 | 1544 | 3.25 | |
| | 1031 | 1307 | 2.82 | | 1338 | 1815 | -2.29 | | 1234 | 1531 | 3.94 | | 1113 | 1347 | 1.20 | | 1412 | 1715 | 4.57 | | 2026 | 2329 | -4.16 | |
| | 1540 | 1927 | -5.39 | | 2234 | | | | 1832 | 2147 | -4.35 | | 1630 | 1956 | -1.71 | | | | | | | | | |
| 11 | 0154 | 0350 | 3.50 | 26 | 0041 | 0341 | 0.75 | 11 | 0109 | 0346 | 2.99 | 26 | 0142 | 088 | | 11 | 0243 | 0516 | 2.89 | 26 | 0054 | 0336 | 2.60 | |
| TH | 0443 | 0813 | -4.91 | FR | 0247 | 0703 | -2.27 | WE | 0618 | 1003 | -5.72 | MO | 0345 | 0815 | -3.32 | WE | 1457 | 1758 | 4.50 | TH | 1334 | 1633 | 4.21 | |
| | 1145 | 1426 | 3.17 | | 1128 | 1318 | 0.57 | | 1337 | 1636 | 4.37 | | 1216 | 1503 | 1.90 | | 1759 | 2110 | -2.15 | | 2106 | | | |
| | 1705 | 2042 | -5.17 | | 1509 | 1925 | -2.15 | | 1942 | 2250 | -4.37 | | 1759 | 2110 | -2.15 | | | | | | | | | |
| 12 | 0015 | 0259 | 3.45 | 27 | 0136 | 0231 | 0.81 | 12 | 0207 | 0443 | 3.02 | 27 | 0024 | 0252 | 1.47 | 12 | 0320 | 0555 | 2.94 | 27 | 0140 | 0430 | 3.72 | |
| FR | 0541 | 0917 | -5.47 | SA | 0341 | 0802 | -2.73 | MO | 0712 | 1058 | -6.05 | WE | 0508 | 0920 | -4.28 | TH | 0825 | 1205 | -5.57 | FR | 1421 | 1719 | 5.02 | |
| | 1251 | 1537 | 3.68 | | 1215 | 1430 | 1.01 | | 1430 | 1731 | 4.64 | | 1308 | 1601 | 2.82 | | 1535 | 1832 | 4.23 | | 2138 | | | |
| | 1825 | 2150 | -5.07 | | 1646 | 2034 | -2.24 | | 2039 | 2344 | -4.33 | | 1903 | 2206 | -2.83 | | | | | | | | | |
| 13 | 0118 | 0358 | 3.41 | 28 | 0016 | 0231 | 1.07 | 13 | 0258 | 0530 | 3.00 | 28 | 0112 | 0351 | 2.32 | 13 | 0350 | 0627 | 2.89 | 28 | 0226 | 0521 | 4.73 | |
| SU | 0634 | 1015 | -6.00 | WE | 0440 | 0858 | -3.41 | MO | 0758 | 1145 | -6.17 | WE | 0617 | 1015 | -5.37 | FR | 0859 | 1237 | -5.29 | WE | 1609 | 1901 | 3.80 | |
| | 1350 | 1641 | 4.17 | | 1258 | 1530 | 1.68 | | 1518 | 1818 | 4.66 | | 1356 | 1652 | 3.78 | | 1609 | 1901 | 3.80 | | 2202 | | | |
| | 1935 | 2253 | -4.96 | | 1807 | 2133 | -2.55 | | 2128 | | | | 1955 | 2255 | -3.60 | | | | | | | | | |
| 14 | 0215 | 0451 | 3.33 | 29 | 0100 | 0324 | 1.52 | 14 | 0029 | 0539 | 4.17 | 29 | 0157 | 0444 | 3.26 | 14 | 0416 | 0654 | 2.77 | 29 | 00 | | | |

AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

Tidal Stream Predictions (Rates in knots)

2019

Time Zone –1000

OCTOBER

| | Slack Time | Maximum Time | Rate | | Slack Time | Maximum Time | Rate |
|-----------|------------|--------------|-------|-----------|------------|--------------|-------|
| 1 | 0142 | -6.40 | | 16 | 0120 | -3.71 | |
| TU | 0452 | 0753 | 5.88 | WE | 0441 | 0733 | 2.95 |
| | 1053 | 1411 | -6.80 | | 1030 | 1340 | -3.24 |
| | 1733 | 2022 | 5.07 | | 1658 | 1935 | 2.25 |
| | 2315 | | | | 2210 | | |
| 2 | 0231 | -6.25 | | 17 | 0141 | -3.70 | |
| WE | 0547 | 0848 | 5.49 | TH | 0506 | 0800 | 2.83 |
| | 1152 | 1506 | -5.87 | | 1101 | 1406 | -2.82 |
| | 1828 | 2114 | 4.26 | | 1719 | 1955 | 2.00 |
| | | | | | 2226 | | |
| 3 | 0000 | 0326 | -5.83 | 18 | 0205 | -3.67 | |
| TH | 0648 | 0950 | 4.85 | FR | 0538 | 0832 | 2.65 |
| | 1259 | 1609 | -4.76 | | 1138 | 1436 | -2.36 |
| | 1930 | 2212 | 3.31 | | 1745 | 2020 | 1.75 |
| | | | | | 2247 | | |
| 4 | 0052 | 0427 | -5.25 | 19 | 0237 | -3.59 | |
| FR | 0758 | 1101 | 4.17 | SA | 0619 | 0915 | 2.39 |
| | 1415 | 1723 | -3.76 | | 1227 | 1516 | -1.86 |
| | 2045 | 2320 | 2.43 | | 1818 | 2054 | 1.47 |
| | | | | | 2319 | | |
| 5 | 0151 | 0539 | -4.71 | 20 | 0322 | -3.42 | |
| WE | 0915 | 1224 | 3.72 | SU | 0716 | 1013 | 2.10 |
| | 1544 | 1850 | -3.16 | | 1333 | 1615 | -1.38 |
| | 2215 | | | | 1911 | 2145 | 1.15 |
| 6 | 0041 | 1.87 | | 21 | 0006 | 0427 | -3.23 |
| SU | 0302 | 0700 | -4.43 | MO | 0831 | 1135 | 1.96 |
| | 1038 | 1350 | 3.67 | | 1508 | 1746 | -1.13 |
| ● | 1711 | 2017 | -3.11 | | 2039 | 2310 | 0.93 |
| | 2341 | | | | | | |
| 7 | 0204 | 1.80 | | 22 | 0122 | 0556 | -3.24 |
| MO | 0421 | 0818 | -4.49 | WE | 0958 | 1309 | 2.26 |
| | 1151 | 1503 | 3.91 | TH | 1642 | 1926 | -1.43 |
| | 1823 | 2128 | -3.38 | | 2222 | | |
| 8 | 0049 | 0315 | 2.06 | 23 | 0054 | 1.19 | |
| TU | 0535 | 0924 | -4.71 | WE | 0310 | 0729 | -3.70 |
| | 1252 | 1602 | 4.15 | | 1114 | 1425 | 2.95 |
| | 1917 | 2222 | -3.69 | | 1748 | 2039 | -2.21 |
| | | | | | 2336 | | |
| 9 | 0139 | 0410 | 2.42 | 24 | 0219 | 2.01 | |
| WE | 0635 | 1017 | -4.89 | TH | 0447 | 0843 | -4.52 |
| | 1343 | 1648 | 4.23 | | 1215 | 1524 | 3.81 |
| | 2000 | 2303 | -3.90 | | 1838 | 2134 | -3.21 |
| 10 | 0218 | 0454 | 2.73 | 25 | 0032 | 0325 | 3.11 |
| TH | 0725 | 1100 | -4.93 | WE | 0604 | 0944 | -5.40 |
| | 1425 | 1726 | 4.13 | FR | 1309 | 1614 | 4.62 |
| | 2032 | 2337 | -3.97 | | 1922 | 2222 | -4.26 |
| 11 | 0250 | 0530 | 2.92 | 26 | 0122 | 0420 | 4.25 |
| WE | 0805 | 1136 | -4.83 | WE | 0709 | 1037 | -6.12 |
| | 1500 | 1757 | 3.88 | SA | 1358 | 1700 | 5.26 |
| | 2059 | | | SA | 2003 | 2307 | -5.23 |
| 12 | 0004 | -3.94 | | 27 | 0211 | 0512 | 5.23 |
| SA | 0316 | 0600 | 3.02 | WE | 0807 | 1128 | -6.55 |
| | 0839 | 1206 | -4.60 | WE | 1445 | 1744 | 5.62 |
| | 1530 | 1822 | 3.54 | | 2045 | 2352 | -5.98 |
| | 2118 | | | | | | |
| 13 | 0027 | -3.87 | | 28 | 0259 | 0602 | 5.91 |
| SU | 0339 | 0625 | 3.05 | WE | 0903 | 1217 | -6.60 |
| | 0909 | 1232 | -4.31 | MO | 1531 | 1829 | 5.65 |
| | 1555 | 1843 | 3.18 | ● | 2126 | | |
| | 2133 | | | | | | |
| 14 | 0045 | -3.79 | | 29 | 0037 | -6.43 | |
| MO | 0400 | 0648 | 3.04 | WE | 0347 | 0652 | 6.21 |
| | 0936 | 1256 | -3.98 | TH | 0959 | 1307 | -6.24 |
| | 1617 | 1900 | 2.83 | | 1619 | 1913 | 5.34 |
| | 2145 | | | | 2207 | | |
| 15 | 0102 | -3.74 | | 30 | 0124 | -6.53 | |
| TU | 0419 | 0710 | 3.01 | WE | 0438 | 0745 | 6.12 |
| | 1002 | 1317 | -3.62 | WE | 1056 | 1359 | -5.54 |
| | 1638 | 1917 | 2.52 | | 1707 | 2000 | 4.73 |
| | 2157 | | | | 2249 | | |
| 31 | 0212 | -6.28 | | 31 | 0530 | 0839 | 5.69 |
| TH | 1157 | 1453 | -4.60 | TH | 1180 | 2048 | 3.91 |
| | 1800 | | | | 2334 | | |

NOVEMBER

| | Slack Time | Maximum Time | Rate | | Slack Time | Maximum Time | Rate |
|-----------|------------|--------------|-------|-----------|------------|--------------|-------|
| 1 | 0303 | -5.74 | | 16 | 0150 | -4.04 | |
| FR | 0628 | 0939 | 5.04 | WE | 1303 | 1554 | -3.58 |
| | | | | | 1858 | 2143 | 2.99 |
| | | | | | | 2252 | |
| 2 | 0022 | 0401 | -5.03 | 17 | 0230 | -3.96 | |
| SA | 0731 | 1046 | 4.37 | WE | 1420 | 1706 | -2.73 |
| | | | | | 2009 | 2247 | 2.15 |
| | | | | | | 2336 | |
| 3 | 0118 | 0508 | -4.32 | 18 | 0320 | -3.77 | |
| SU | 0843 | 1203 | 3.86 | MO | 1065 | 1015 | 3.23 |
| | | | | | 1545 | 1830 | -2.27 |
| | | | | | 2136 | | |
| 4 | 0007 | 1.61 | | 19 | 0035 | 0426 | -3.54 |
| MO | 0229 | 0625 | -3.81 | WE | 0803 | 1130 | 3.17 |
| | 0957 | 1323 | 3.67 | TH | 1533 | 1741 | -1.06 |
| | 1704 | 1954 | -2.27 | ● | 2304 | | |
| 5 | 0131 | 1.52 | | 20 | 0155 | 0547 | -3.46 |
| TU | 0350 | 0743 | -3.60 | WE | 0920 | 1250 | 3.40 |
| | 1107 | 1433 | 3.71 | WE | 1645 | 1906 | -1.44 |
| | 1807 | 2101 | -2.56 | ● | 2133 | | |
| 6 | 0012 | 0244 | 1.79 | 21 | 0043 | 2.17 | |
| WE | 0509 | 0849 | -3.61 | WE | 0330 | 0712 | -3.68 |
| | 1207 | 1529 | 3.79 | TH | 1034 | 1401 | 3.89 |
| | 1854 | 2151 | -2.88 | | 1742 | 2017 | -2.21 |
| 7 | 0100 | 0339 | 2.20 | 22 | 0205 | 2.92 | |
| TH | 0614 | 0943 | -3.67 | FR | 0458 | 0826 | -4.15 |
| | 1256 | 1612 | 3.81 | TH | 1140 | 1501 | 4.50 |
| | 1930 | 2229 | -3.15 | | 1829 | 2115 | -3.18 |
| 8 | 0136 | 0422 | 2.59 | 23 | 0003 | 0314 | 3.92 |
| FR | 0705 | 1026 | -3.68 | WE | 0614 | 0930 | -4.66 |
| | 1336 | 1646 | 3.74 | SA | 1238 | 1554 | 5.06 |
| | 1959 | 2300 | -3.33 | SA | 1912 | 2206 | -4.17 |
| 9 | 0206 | 0458 | 2.93 | 24 | 0100 | 0413 | 4.93 |
| SA | 0747 | 1100 | -3.62 | WE | 0719 | 1027 | -5.05 |
| | 1409 | 1715 | 3.60 | SA | 1330 | 1643 | 5.46 |
| | 2021 | 2325 | -3.47 | WE | 1953 | 2254 | -5.04 |
| 10 | 0230 | 0528 | 3.19 | 25 | 0153 | 0507 | 5.76 |
| WE | 0824 | 1131 | -3.51 | WE | 0819 | 1119 | -5.19 |
| | 1436 | 1739 | 3.43 | MO | 1419 | 1729 | 5.63 |
| | 2040 | 2346 | -3.58 | WE | 2034 | 2340 | -5.68 |
| 11 | 0253 | 0554 | 3.39 | 26 | 0244 | 0559 | 6.31 |
| MO | 0857 | 1159 | -3.35 | WE | 0917 | 1210 | -5.03 |
| | 1500 | 1800 | 3.27 | WE | 1506 | 1813 | 5.53 |
| | 2057 | | | 2115 | | | |
| 12 | 0007 | -3.69 | | 27 | 0332 | 0649 | 6.53 |
| TU | 0315 | 0620 | 3.56 | WE | 1015 | 1300 | -4.59 |
| | 0929 | 1224 | -3.15 | WE | 1523 | 1820 | 5.11 |
| | 2114 | | | ● | 2157 | | |
| 13 | 0028 | -3.81 | | 28 | 0112 | -6.03 | |
| WE | 0339 | 0646 | 3.68 | WE | 0422 | 0741 | 6.40 |
| | 1000 | 1250 | -2.91 | TH | 1113 | 1351 | -3.93 |
| | 1545 | 1842 | 2.97 | | 1637 | 1942 | 4.63 |
| | 2131 | | | | 2239 | | |
| 14 | 0051 | -3.92 | | 29 | 0158 | -5.72 | |
| TH | 0405 | 0715 | 3.75 | WE | 0512 | 0833 | 6.00 |
| | 1035 | 1318 | -2.62 | WE | 1214 | 1444 | -3.14 |
| | 1607 | 1904 | 2.85 | WE | 1724 | 2029 | 3.93 |
| | 2152 | | | | 2323 | | |
| 15 | 0117 | -4.01 | | 30 | 0246 | -5.14 | |
| WE | 0436 | 0747 | 3.73 | WE | 0602 | 0929 | 5.41 |
| | 1115 | 1350 | -2.28 | WE | 1319 | 1541 | -2.34 |
| | 1631 | 1931 | 2.71 | WE | 1812 | 2117 | 3.18 |
| | 2218 | | | | | | |
| 31 | 0212 | -6.28 | | 31 | 0100 | 0358 | -2.78 |
| TH | 0530 | 0839 | 5.69 | TH | 0649 | 1047 | 4.53 |
| | 1157 | 1453 | -4.60 | TH | 1545 | 1659 | -0.41 |
| | 1800 | 2048 | 3.91 | | 2225 | | 2.76 |

DECEMBER

| | Slack Time | Maximum Time | Rate | | Slack Time | Maximum Time | Rate |
|----------|------------|--------------|-------|-----------|------------|--------------|-------|
| 1 | 0010 | 0338 | -4.40 | 16 | 0229 | 0426 | |
| WE | 0656 | 1028 | 4.76 | WE | 0539 | 0912 | 4.95 |
| | 1430 | 1644 | -1.67 | MO | 1320 | 1514 | -1.35 |
| | 1907 | 2214 | 2.48 | WE | 1710 | 2051 | 3.73 |
| 2 | 0104 | 0434 | -3.61 | 17 | 0003 | 0321 | -4.07 |
| MO | 0752 | 1131 | 4.18 | WE | 0632 | 1009 | 4.81 |
| | 1547 | 1754 | -1.25 | TU | 1423 | 1614 | -1.18 |
| | 2013 | 2320 | 1.95 | | 1806 | 2151 | 3.54 |
| 3 | 0209 | 0539 | -2.90 | 18 | 0106 | 0423 | -3.77 |
| WE | 0851 | 1239 | 3.78 | WE | 0733</td | | |

AUSTRALIA, TORRES STRAIT – GOODS ISLAND

2019

LAT 10° 34' S LONG 142° 09' E

Times and Heights of High and Low Waters

Time Zone -1000

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

Full Moon

Last Quarter

AUSTRALIA, TORRES STRAIT – GOODS ISLAND

2019

LAT 10° 34' S LONG 142° 09' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | | | | | |
|-----------|-----------|------|-----------|------|------|------|-----------|------|-----------|-----------|------|------|------|-----------|-----------|------|------|------|---|--|
| 1 | 0219 | 2.75 | 16 | 0203 | 2.90 | | 1 | 0218 | 2.76 | 16 | 0236 | 2.97 | | 1 | 0130 | 2.94 | | | | |
| | 0651 | 2.34 | | 0714 | 1.95 | | 1109 | 1.48 | 16 | 1120 | 0.89 | | 1031 | 0.97 | 16 | 1151 | 0.66 | | | |
| WE | 1009 | 2.41 | TH | 1346 | 2.38 | SA | 1645 | 2.04 | SU | 1807 | 2.35 | MO | 1758 | 2.19 | TU | 1928 | 2.56 | | | |
| | 1905 | 1.39 | | 1916 | 1.29 | | 1909 | 1.88 | | 2018 | 2.21 | | 1858 | 2.18 | | 2057 | 2.52 | | | |
| 2 | 0315 | 2.70 | 17 | 0253 | 2.89 | | 2 | 0248 | 2.76 | 17 | 0313 | 2.93 | | 2 | 0201 | 2.95 | | | | |
| | 1256 | 2.16 | | 1026 | 1.69 | | 1154 | 1.23 | | 1223 | 0.71 | | 1130 | 0.80 | 17 | 1250 | 0.63 | | | |
| TH | 1433 | 2.17 | FR | 1608 | 2.31 | SU | 1800 | 2.22 | MO | 1923 | 2.55 | TU | WE | 2019 | 2.68 | | | | | |
| * 1932 | 1.64 | | | 2000 | 1.66 | | 1945 | 2.15 | ○ | 2135 | 2.46 | | ○ | 2252 | 2.59 | | | | | |
| 3 | 0408 | 2.69 | 18 | 0339 | 2.90 | | 3 | 0320 | 2.78 | 18 | 0353 | 2.89 | | 3 | 0243 | 2.96 | | | | |
| | 1232 | 1.91 | | 1145 | 1.35 | | 1235 | 1.00 | | 1315 | 0.59 | | 1225 | 0.66 | 18 | 1339 | 0.62 | | | |
| FR | 1654 | 2.21 | SA | 1745 | 2.44 | MO | 1913 | 2.42 | TU | 2024 | 2.71 | WE | TH | 2100 | 2.75 | | | | | |
| | 2248 | 1.96 | | 2052 | 2.00 | ● | 2030 | 2.39 | | 2332 | 2.54 | ● | | | | | | | | |
| 4 | 0449 | 2.70 | 19 | 0418 | 2.91 | | 4 | 0356 | 2.82 | 19 | 0438 | 2.84 | | 4 | 0341 | 2.98 | | | | |
| | 1253 | 1.65 | | 1247 | 1.03 | | 1315 | 0.81 | | 1359 | 0.53 | | 1317 | 0.54 | 19 | 0505 | 2.63 | | | |
| SA | 1801 | 2.34 | SU | 1858 | 2.60 | TU | 2016 | 2.60 | WE | 2111 | 2.83 | TH | 2050 | 2.68 | FR | 1420 | 0.62 | | | |
| | 2356 | 2.09 | ○ | 2327 | 2.25 | | | | | | | 2354 | 2.59 | | 2133 | 2.78 | | | | |
| 5 | 0518 | 2.72 | 20 | 0454 | 2.94 | | 5 | 0009 | 2.52 | 20 | 0035 | 2.53 | | 5 | 0445 | 2.99 | | | | |
| | 1323 | 1.40 | | 1338 | 0.78 | | 0434 | 2.87 | | 0530 | 2.78 | | 1405 | 0.44 | 20 | 0611 | 2.57 | | | |
| SU | 1901 | 2.49 | MO | 2004 | 2.75 | WE | 1353 | 0.65 | TH | 1438 | 0.50 | FR | 2122 | 2.76 | SA | 1455 | 0.64 | | | |
| ● | | | | | | 2101 | 2.75 | | 2147 | 2.89 | | | | | 2200 | 2.79 | | | | |
| 6 | 0041 | 2.20 | 21 | 0027 | 2.38 | | 6 | 0050 | 2.53 | 21 | 0135 | 2.45 | | 6 | 0048 | 2.50 | | | | |
| | 0531 | 2.75 | | 0531 | 2.95 | | 0517 | 2.93 | | 0625 | 2.72 | | 0547 | 2.99 | 21 | 0712 | 2.51 | | | |
| MO | 1356 | 1.16 | TU | 1421 | 0.61 | TH | 1430 | 0.52 | FR | 1512 | 0.50 | SA | 1449 | 0.39 | SU | 1525 | 0.68 | | | |
| | 1959 | 2.64 | | 2101 | 2.89 | 2139 | 2.85 | | 2217 | 2.92 | 2152 | 2.82 | | 2218 | 2.80 | | 2201 | 3.02 | | |
| 7 | 0115 | 2.29 | 22 | 0116 | 2.42 | | 7 | 0128 | 2.49 | 22 | 0238 | 2.35 | | 7 | 0141 | 2.37 | | | | |
| | 0544 | 2.82 | | 0615 | 2.95 | | 0605 | 2.99 | | 0721 | 2.66 | | 0653 | 2.96 | 22 | 0807 | 2.46 | | | |
| TU | 1429 | 0.95 | WE | 1500 | 0.51 | FR | 1507 | 0.42 | SA | 1542 | 0.52 | SU | 1526 | 0.38 | MO | 1550 | 0.74 | | | |
| | 2050 | 2.79 | | 2147 | 2.99 | 2211 | 2.91 | | 2243 | 2.92 | 2217 | 2.88 | | 2232 | 2.83 | | 2226 | 3.16 | | |
| 8 | 0142 | 2.35 | 23 | 0201 | 2.40 | | 8 | 0206 | 2.41 | 23 | 0340 | 2.24 | | 8 | 0241 | 2.19 | | | | |
| | 0611 | 2.91 | | 0701 | 2.93 | | 0659 | 3.02 | | 0814 | 2.59 | | 0803 | 2.89 | 23 | 0858 | 2.40 | | | |
| WE | 1500 | 0.77 | TH | 1531 | 0.46 | SA | 1539 | 0.37 | SU | 1608 | 0.57 | MO | 1555 | 0.44 | TU | 1611 | 0.84 | | | |
| | 2134 | 2.91 | | 2224 | 3.04 | 2240 | 2.95 | | 2302 | 2.92 | 2239 | 2.96 | | 2245 | 2.87 | ○ | 2254 | 3.27 | | |
| 9 | 0209 | 2.37 | 24 | 0245 | 2.34 | | 9 | 0248 | 2.30 | 24 | 0430 | 2.12 | | 9 | 0401 | 1.96 | | | | |
| | 0645 | 3.01 | | 0749 | 2.89 | | 0756 | 3.00 | | 0901 | 2.50 | | 0915 | 2.77 | 24 | 0945 | 2.33 | | | |
| TH | 1531 | 0.62 | FR | 1600 | 0.45 | SU | 1605 | 0.36 | MO | 1631 | 0.65 | TU | 1616 | 0.57 | WE | 1623 | 0.98 | | | |
| | 2211 | 2.99 | | 2255 | 3.06 | 2304 | 2.98 | | 2321 | 2.93 | 2302 | 3.06 | | 2255 | 2.93 | ○ | 2324 | 3.30 | | |
| 10 | 0237 | 2.36 | 25 | 0329 | 2.27 | | 10 | 0336 | 2.17 | 25 | 0517 | 2.01 | | 10 | 0520 | 1.68 | | | | |
| | 0727 | 3.10 | | 0835 | 2.82 | | 0858 | 2.92 | | 0946 | 2.39 | | 1026 | 2.60 | 25 | 1034 | 2.25 | | | |
| FR | 1559 | 0.51 | SA | 1625 | 0.49 | MO | 1630 | 0.43 | TU | 1649 | 0.78 | WE | 1644 | 0.78 | SU | 1730 | 1.66 | | | |
| | 2244 | 3.03 | | 2323 | 3.05 | ○ | 2331 | 3.01 | ○ | 2340 | 2.93 | 2331 | 3.15 | ○ | 2308 | 2.98 | | | | |
| 11 | 0308 | 2.32 | 26 | 0409 | 2.21 | | 11 | 0431 | 2.02 | 26 | 0602 | 1.87 | | 11 | 0619 | 1.39 | | | | |
| | 0811 | 3.16 | | 0917 | 2.72 | | 1002 | 2.76 | | 1031 | 2.26 | | 1136 | 2.41 | 26 | 1126 | 2.17 | | | |
| SA | 1622 | 0.45 | SU | 1650 | 0.57 | TU | 1700 | 0.57 | WE | 1700 | 0.96 | TH | 1715 | 1.05 | FR | 1633 | 1.33 | | | |
| | 2315 | 3.04 | | 2349 | 3.00 | | | | | 2359 | 2.93 | | | | | 2323 | 3.03 | | | |
| 12 | 0345 | 2.27 | 27 | 0449 | 2.17 | | 12 | 0004 | 3.04 | 27 | 0648 | 1.72 | | 12 | 0004 | 3.19 | | | | |
| | 0858 | 3.16 | | 0955 | 2.60 | | 0533 | 1.85 | | 1125 | 2.12 | | 0713 | 1.13 | 27 | 1226 | 2.09 | | | |
| SU | 1646 | 0.44 | MO | 1715 | 0.70 | WE | 1115 | 2.54 | TH | 1711 | 1.16 | FR | 1251 | 2.22 | SA | 1655 | 1.54 | | | |
| | 2350 | 3.02 | ○ | | | 1735 | 0.81 | | | | | 1751 | 1.38 | | 2342 | 3.07 | | | | |
| 13 | 0429 | 2.22 | 28 | 0016 | 2.95 | | 13 | 0041 | 3.05 | 28 | 0018 | 2.93 | | 13 | 0037 | 3.18 | | | | |
| | 0947 | 3.08 | | 0530 | 2.13 | | 0649 | 1.65 | | 0737 | 1.54 | | 0806 | 0.93 | 28 | 1345 | 2.04 | | | |
| MO | 1718 | 0.52 | TU | 1030 | 2.44 | TH | 1238 | 2.30 | FR | 1233 | 1.98 | SA | 1433 | 2.11 | SU | 1724 | 1.78 | | | |
| | | | | 1736 | 0.88 | 1812 | 1.14 | | 1730 | 1.39 | 1829 | 1.73 | | | | | | | | |
| 14 | 0030 | 2.98 | 29 | 0045 | 2.88 | | 14 | 0119 | 3.04 | 29 | 0039 | 2.93 | | 14 | 0109 | 3.12 | | | | |
| | 0518 | 2.15 | | 0615 | 2.07 | | 0841 | 1.40 | | 0830 | 1.35 | | 0906 | 0.79 | 29 | 0731 | 0.83 | | | |
| TU | 1041 | 2.89 | WE | 1109 | 2.26 | FR | 1415 | 2.13 | SA | 1417 | 1.91 | SU | 1652 | 2.19 | MO | 1551 | 2.08 | | | |
| | 1755 | 0.69 | | 1755 | 1.10 | 1851 | 1.50 | | 1756 | 1.65 | 1908 | 2.06 | | 1756 | 2.02 | | 2028 | 2.52 | | |
| 15 | 0115 | 2.93 | 30 | 0116 | 2.83 | | 15 | 0159 | 3.01 | 30 | 0103 | 2.93 | | 15 | 0139 | 3.03 | | | | |
| | 0612 | 2.07 | | 0840 | 1.96 | | 1004 | 1.13 | | 0930 | 1.15 | | 1032 | 0.72 | 30 | 0805 | 0.71 | | | |
| WE | 1153 | 2.62 | TH | 1221 | 2.06 | SA | 1637 | 2.17 | SU | 1624 | 2.01 | MO | | | TU | 1755 | 2.23 | | | |
| | 1834 | 0.96 | | 1815 | 1.35 | 1931 | 1.88 | | 1826 | 1.93 | | | | | 1828 | 2.23 | ○ | | | |
| | | | | | | | | | | | | | | | | | 2241 | 2.56 | ● | |
| | 31 | 0148 | 2.79 | | | | | | | | | | | | | | | | | |
| | 1013 | 1.74 | | | | | | | | | | | | | | | | | | |
| | FR | 1444 | 1.94 | | | | | | | | | | | | | | | | | |
| | 1839 | 1.61 | | | | | | | | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – GOODS ISLAND

2019

LAT 10° 34' S LONG 142° 09' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|------|---------|------|---------|------|---------|------|----------|------|---------|------|----------|------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0445 | 2.86 | 16 0241 | 1.94 | 1 0137 | 1.63 | 16 0222 | 1.34 | 1 0259 | 0.56 | 16 0244 | 0.76 | 1 0310 | 0.52 | 16 0243 | 0.70 |
| 1318 | 0.74 | 0642 | 2.36 | 0656 | 2.72 | 0753 | 2.49 | 0922 | 3.03 | 0942 | 3.01 | 1013 | 3.30 | 1007 | 3.26 |
| SU 1958 | 2.70 | MO 1401 | 1.24 | TU 1333 | 1.39 | WE 1352 | 1.90 | FR 1352 | 2.31 | SA 1353 | 2.60 | SU 1405 | 2.70 | MO 1343 | 2.90 |
| | | 2011 | 2.62 | 1921 | 2.89 | 1900 | 2.70 | 1909 | 3.19 | 1809 | 3.07 | 1908 | 3.20 | 1816 | 3.38 |
| 2 0105 | 2.15 | 17 0300 | 1.72 | 2 0237 | 1.23 | 17 0250 | 1.12 | 2 0336 | 0.41 | 17 0313 | 0.65 | 2 0339 | 0.53 | 17 0312 | 0.65 |
| 0612 | 2.83 | 0737 | 2.40 | 0802 | 2.80 | 0842 | 2.62 | 1009 | 3.12 | 1011 | 3.10 | 1043 | 3.34 | 1030 | 3.30 |
| MO 1406 | 0.82 | TU 1430 | 1.34 | WE 1411 | 1.57 | TH 1415 | 2.01 | 1431 | 2.33 | 1420 | 2.59 | 1454 | 2.62 | TU 1421 | 2.80 |
| 2025 | 2.81 | 2022 | 2.66 | 1945 | 3.01 | 1911 | 2.76 | 1952 | 3.19 | 1846 | 3.15 | 1959 | 3.11 | 1910 | 3.36 |
| 3 0245 | 1.78 | 18 0327 | 1.48 | 3 0323 | 0.86 | 18 0319 | 0.92 | 3 0407 | 0.35 | 18 0339 | 0.57 | 3 0404 | 0.58 | 18 0333 | 0.64 |
| 0735 | 2.81 | 0827 | 2.45 | 0902 | 2.86 | 0925 | 2.74 | 1048 | 3.16 | 1038 | 3.15 | 1109 | 3.35 | 1048 | 3.35 |
| TU 1445 | 0.96 | WE 1454 | 1.46 | TH 1433 | 1.73 | FR 1435 | 2.09 | 1513 | 2.32 | 1448 | 2.56 | 1543 | 2.54 | WE 1505 | 2.66 |
| 2048 | 2.94 | 2034 | 2.72 | 2013 | 3.14 | 1920 | 2.85 | 2036 | 3.14 | 1929 | 3.21 | 2046 | 2.98 | 2009 | 3.28 |
| 4 0342 | 1.38 | 19 0355 | 1.25 | 4 0403 | 0.58 | 19 0347 | 0.76 | 4 0432 | 0.37 | 19 0400 | 0.53 | 4 0429 | 0.67 | 19 0355 | 0.67 |
| 0844 | 2.79 | 0913 | 2.51 | 0958 | 2.91 | 1002 | 2.84 | 1124 | 3.16 | 1102 | 3.16 | 1133 | 3.34 | 1108 | 3.42 |
| WE 1510 | 1.15 | TH 1511 | 1.58 | 1500 | 1.85 | SA 1453 | 2.16 | 1555 | 2.31 | 1520 | 2.50 | 1631 | 2.47 | TH 1600 | 2.50 |
| 2113 | 3.09 | 2045 | 2.80 | 2046 | 3.22 | 1941 | 2.96 | 2117 | 3.04 | 2015 | 3.22 | 2130 | 2.82 | 2114 | 3.12 |
| 5 0427 | 1.00 | 20 0422 | 1.03 | 5 0438 | 0.40 | 20 0413 | 0.63 | 5 0458 | 0.46 | 20 0418 | 0.51 | 5 0452 | 0.82 | 20 0423 | 0.79 |
| 0946 | 2.76 | 0954 | 2.58 | 1047 | 2.92 | 1036 | 2.90 | 1159 | 3.10 | 1129 | 3.17 | 1158 | 3.31 | 1134 | 3.50 |
| TH 1529 | 1.34 | FR 1522 | 1.70 | 1534 | 1.95 | SU 1514 | 2.21 | 1637 | 2.31 | 1600 | 2.44 | 1723 | 2.40 | FR 1703 | 2.29 |
| 2140 | 3.22 | 2057 | 2.90 | 2122 | 3.23 | 2011 | 3.07 | 2155 | 2.89 | 2104 | 3.15 | 2212 | 2.63 | 2226 | 2.90 |
| 6 0506 | 0.70 | 21 0448 | 0.85 | 6 0507 | 0.33 | 21 0433 | 0.54 | 6 0524 | 0.61 | 21 0446 | 0.56 | 6 0514 | 1.02 | 21 0457 | 1.00 |
| 1045 | 2.71 | 1034 | 2.62 | 1135 | 2.89 | 1109 | 2.92 | 1233 | 3.02 | 1201 | 3.16 | 1224 | 3.28 | 21 1206 | 3.56 |
| FR 1558 | 1.53 | SA 1534 | 1.82 | 1614 | 2.04 | MO 1539 | 2.24 | 1719 | 2.33 | 1648 | 2.35 | 1828 | 2.30 | SA 1818 | 2.05 |
| ○ 2210 | 3.30 | 2112 | 3.01 | 2157 | 3.17 | ○ 2045 | 3.15 | 2226 | 2.70 | 2159 | 2.99 | 2258 | 2.42 | 2348 | 2.64 |
| 7 0540 | 0.51 | 22 0511 | 0.70 | 7 0532 | 0.37 | 22 0451 | 0.48 | 7 0551 | 0.82 | 22 0520 | 0.71 | 7 0532 | 1.26 | 22 0533 | 1.31 |
| 1142 | 2.63 | 1115 | 2.63 | 1222 | 2.82 | 1144 | 2.89 | 1312 | 2.93 | 1241 | 3.15 | 1251 | 3.25 | 22 1241 | 3.60 |
| SA 1633 | 1.72 | SU 1554 | 1.92 | 1653 | 2.13 | TU 1611 | 2.26 | 1804 | 2.33 | 1745 | 2.24 | 2045 | 2.13 | SU 1956 | 1.75 |
| 2241 | 3.28 | ○ 2134 | 3.12 | 2229 | 3.04 | 2124 | 3.18 | 2237 | 2.49 | 2304 | 2.74 | 2204 | 1.89 | 2111 | 1.46 |
| 8 0611 | 0.44 | 23 0529 | 0.59 | 8 0600 | 0.48 | 23 0515 | 0.48 | 8 0618 | 1.07 | 23 0559 | 0.96 | 8 0011 | 2.21 | 23 0117 | 2.43 |
| 1241 | 2.53 | 1159 | 2.60 | 1313 | 2.71 | 1226 | 2.83 | 1354 | 2.85 | 1324 | 3.15 | 0548 | 1.53 | 23 0611 | 1.69 |
| SU 1711 | 1.91 | MO 1622 | 2.03 | 1733 | 2.22 | WE 1651 | 2.27 | 1900 | 2.31 | 1847 | 2.08 | 1318 | 3.22 | MO 1316 | 3.60 |
| 2309 | 3.19 | 2201 | 3.19 | 2255 | 2.86 | 2205 | 3.12 | 2015 | 2.33 | | | 2204 | 1.89 | 2111 | 1.46 |
| 9 0639 | 0.48 | 24 0549 | 0.52 | 9 0630 | 0.67 | 24 0547 | 0.54 | 9 0644 | 1.35 | 24 0553 | 2.46 | 9 0216 | 2.08 | 24 0340 | 2.36 |
| 1353 | 2.43 | 1250 | 2.53 | 1415 | 2.60 | 1316 | 2.76 | 1441 | 2.80 | 0639 | 1.30 | 0604 | 1.82 | 24 0649 | 2.10 |
| MO 1750 | 2.10 | TU 1658 | 2.13 | 1815 | 2.31 | TH 1741 | 2.27 | SA | | 1408 | 3.16 | 1345 | 3.20 | TU 1352 | 3.59 |
| 2333 | 3.05 | 2233 | 3.21 | 2306 | 2.67 | 2251 | 2.98 | 2146 | 1.81 | | | 2253 | 1.63 | 2224 | 1.20 |
| 10 0710 | 0.60 | 25 0619 | 0.51 | 10 0701 | 0.90 | 25 0627 | 0.70 | 10 0026 | 2.02 | 25 0247 | 2.32 | 10 0437 | 2.16 | 25 0546 | 2.56 |
| 1604 | 2.40 | 1359 | 2.45 | 1600 | 2.55 | 1417 | 2.71 | 0233 | 2.06 | 0721 | 1.70 | 0619 | 2.12 | 25 0729 | 2.49 |
| TU 1831 | 2.26 | WE 1743 | 2.22 | 1900 | 2.37 | 1836 | 2.24 | 0707 | 1.64 | MO 1451 | 3.18 | 1413 | 3.20 | WE 1428 | 3.56 |
| 2348 | 2.87 | 2311 | 3.16 | 2200 | 2.50 | 2348 | 2.73 | 1529 | 2.79 | 2301 | 1.45 | 2334 | 1.38 | 2335 | 1.00 |
| 11 0745 | 0.77 | 26 0657 | 0.57 | 11 0736 | 1.16 | 26 0710 | 0.96 | 11 0024 | 1.78 | 26 0519 | 2.43 | 11 1443 | 3.21 | 26 0715 | 2.83 |
| 1730 | 2.47 | 1603 | 2.44 | 1706 | 2.56 | 1532 | 2.73 | 0450 | 2.11 | 0806 | 2.11 | 0816 | 2.81 | WE | |
| WE 1915 | 2.39 | TH 1836 | 2.29 | 1958 | 2.39 | SA 1937 | 2.14 | 0731 | 1.93 | 1530 | 3.22 | TH 1509 | 3.52 | ○ | |
| 2342 | 2.70 | 2355 | 3.03 | 2046 | 2.40 | | | 1608 | 2.80 | | | | | | |
| 12 0830 | 0.98 | 27 0741 | 0.71 | 12 0814 | 1.43 | 27 0215 | 2.48 | 12 0041 | 1.53 | 27 0006 | 1.11 | 12 0015 | 1.17 | 27 0037 | 0.87 |
| 1826 | 2.54 | 1710 | 2.51 | 1740 | 2.57 | 0756 | 1.27 | 1635 | 2.82 | 0641 | 2.66 | 1517 | 3.24 | 27 1556 | 3.47 |
| TH 2005 | 2.48 | FR 1934 | 2.30 | SA | | 1631 | 2.79 | | | 0900 | 2.47 | | | FR | |
| 2314 | 2.56 | | | 2311 | 1.88 | | | ○ | | 1608 | 3.27 | | | ○ | |
| 13 1143 | 1.09 | 28 0057 | 2.82 | 13 0135 | 2.02 | 28 0433 | 2.44 | 13 0108 | 1.29 | 28 0102 | 0.84 | 13 0054 | 1.00 | 28 0129 | 0.80 |
| 1908 | 2.58 | 0830 | 0.92 | 0444 | 2.18 | 0847 | 1.62 | 1006 | 2.50 | 0752 | 2.89 | 1556 | 3.27 | FR | |
| FR | | SA 1752 | 2.60 | SU 1144 | 1.58 | MO 1706 | 2.87 | 1218 | 2.41 | TH 1115 | 2.71 | 1139 | 3.08 | SA | |
| | | 2037 | 2.24 | 1800 | 2.59 | ● | | * 1651 | 2.86 | 1647 | 3.30 | 1649 | 3.40 | 1649 | |
| 14 0219 | 2.30 | 29 0336 | 2.67 | 14 0143 | 1.81 | 29 0024 | 1.49 | 14 0140 | 1.07 | 29 0151 | 0.66 | 14 0132 | 0.87 | 29 0213 | 0.78 |
| 0412 | 2.35 | 0935 | 1.15 | 0558 | 2.25 | 0614 | 2.58 | 0827 | 2.69 | 0851 | 3.08 | 1007 | 3.10 | 0935 | 3.32 |
| SA 1243 | 1.12 | SU 1827 | 2.69 | 1239 | 1.68 | TU 1147 | 1.91 | 1257 | 2.51 | FR 1222 | 2.78 | 1226 | 3.01 | SU 1245 | 3.02 |
| ○ 1939 | 2.59 | ● | | 1821 | 2.62 | 1732 | 2.96 | 1709 | 2.92 | 1730 | 3.30 | 1639 | 3.31 | 1744 | 3.31 |
| 15 0228 | 2.13 | 30 0015 | 2.01 | 15 0158 | 1.58 | 30 0126 | 1.12 | 15 0212 | 0.90 | 30 0233 | 0.56 | 15 0209 | 0.78 | 30 0250 | 0.78 |
| 0540 | 2.34 | 0526 | 2.66 | 0658 | 2.36 | 0723 | 2.75 | 0909 | 2.87 | 0936 | 3.22 | 0946 | 3.19 | 1005 | 3.37 |
| SU 1327 | 1.17 | MO 1245 | 1.23 | TU 1320 | 1.79 | WE 1241 | 2.10 | 1326 | 2.57 | SA 1315 | 2.76 | 1306 | 2.98 | MO 1346 | 2.92 |
| 1959 | 2.60 | 1857 | 2.78 | 1842 | 2.66 | 1758 | 3.05 | 1736 | 2.99 | 1817 | 3.27 | 1726 | 3.35 | 1841 | 3.22 |
| | | | | 31 | 0215 | 0.80 | | | | | | | | | |
| | | | | 0826 | 2.90 | | | | | | | | | | |
| | | | | TH 1318 | 2.24 | | | | | | | | | | |
| | | | | 1830 | 3.14 | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – BOOBY ISLAND

2019

LAT 10° 36' S LONG 141° 55' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | Time | m |
|-----------|------|------|-----------|-----------|
| 1 | 0009 | 3.06 | 16 | 0452 1.92 |
| | 0553 | 1.74 | 16 | 1139 4.06 |
| TU | 1234 | 4.11 | WE | 1840 1.91 |
| | 1937 | 1.75 | | |
| 2 | 0135 | 2.94 | 17 | 0033 2.92 |
| | 0638 | 2.15 | 17 | 0532 2.22 |
| WE | 1310 | 4.06 | TH | 1206 4.10 |
| | 2039 | 1.50 | | 1923 1.63 |
| 3 | 0311 | 2.94 | 18 | 0154 2.95 |
| | 0727 | 2.54 | 18 | 0621 2.55 |
| TH | 1346 | 3.99 | FR | 1238 4.12 |
| | 2141 | 1.30 | | 2010 1.36 |
| 4 | 0524 | 3.11 | 19 | 0326 3.05 |
| | 0821 | 2.87 | 19 | 0724 2.86 |
| FR | 1422 | 3.92 | SA | 1316 4.14 |
| | 2237 | 1.16 | | 2100 1.14 |
| 5 | 0640 | 3.34 | 20 | 0557 3.29 |
| | 0921 | 3.10 | 20 | 0836 3.09 |
| SA | 1502 | 3.85 | SU | 1403 4.15 |
| | 2326 | 1.08 | | 2155 0.96 |
| 6 | 0730 | 3.52 | 21 | 0654 3.52 |
| | 1023 | 3.21 | 21 | 0942 3.20 |
| SU | 1546 | 3.79 | MO | 1502 4.17 |
| | ● | | ○ | 2257 0.84 |
| 7 | 0010 | 1.05 | 22 | 0738 3.69 |
| | 0808 | 3.63 | 22 | 1044 3.19 |
| MO | 1122 | 3.22 | TU | 1606 4.18 |
| | 1631 | 3.74 | | |
| 8 | 0052 | 1.04 | 23 | 0010 0.77 |
| | 0841 | 3.69 | 23 | 0813 3.80 |
| TU | 1217 | 3.18 | WE | 1144 3.11 |
| | 1715 | 3.68 | | 1713 4.18 |
| 9 | 0130 | 1.06 | 24 | 0114 0.75 |
| | 0907 | 3.72 | 24 | 0843 3.88 |
| WE | 1310 | 3.11 | TH | 1247 2.97 |
| | 1758 | 3.62 | | 1819 4.12 |
| 10 | 0206 | 1.10 | 25 | 0203 0.80 |
| | 0931 | 3.74 | 25 | 0910 3.96 |
| TH | 1401 | 3.03 | FR | 1401 2.78 |
| | 1840 | 3.54 | | 1925 3.99 |
| 11 | 0238 | 1.16 | 26 | 0245 0.93 |
| | 0952 | 3.77 | 26 | 0938 4.05 |
| FR | 1453 | 2.93 | SA | 1517 2.54 |
| | 1924 | 3.44 | | 2031 3.81 |
| 12 | 0305 | 1.24 | 27 | 0324 1.14 |
| | 1013 | 3.81 | 27 | 1009 4.15 |
| SA | 1545 | 2.81 | SU | 1622 2.25 |
| | 2013 | 3.32 | | 2140 3.59 |
| 13 | 0328 | 1.35 | 28 | 0404 1.43 |
| | 1034 | 3.87 | 28 | 1042 4.22 |
| SU | 1633 | 2.64 | MO | 1720 1.96 |
| | 2107 | 3.19 | ○ | 2252 3.37 |
| 14 | 0352 | 1.49 | 29 | 0444 1.76 |
| | 1054 | 3.93 | 29 | 1115 4.24 |
| MO | 1717 | 2.44 | TU | 1814 1.71 |
| | ● | 2209 | 3.07 | |
| 15 | 0419 | 1.68 | 30 | 0007 3.20 |
| | 1115 | 4.00 | 30 | 0525 2.14 |
| TU | 1759 | 2.19 | WE | 1148 4.21 |
| | 2317 | 2.97 | | 1906 1.51 |
| 31 | 0125 | 3.10 | | |
| | 0611 | 2.50 | | |
| TH | 1219 | 4.13 | | |
| | 1956 | 1.38 | | |

FEBRUARY

| | Time | m | Time | m |
|-----------|------|------|-----------|-----------|
| 1 | 0253 | 3.10 | 16 | 0132 3.19 |
| | 0703 | 2.83 | 16 | 0555 2.75 |
| FR | 1251 | 4.01 | SA | 1148 4.17 |
| | 2046 | 1.31 | | 1935 1.19 |
| 2 | 0521 | 3.23 | 17 | 0253 3.23 |
| | 0800 | 3.07 | 17 | 0707 2.99 |
| SA | 1329 | 3.89 | SU | 1233 4.15 |
| | 2138 | 1.29 | | 2027 1.07 |
| 3 | 1420 | 3.79 | 18 | 0511 3.35 |
| | 2239 | 1.29 | 18 | 0820 3.11 |
| SU | | | MO | 1332 4.11 |
| | | | | 2123 1.00 |
| 4 | 0713 | 3.55 | 19 | 0621 3.52 |
| | 0958 | 3.26 | 19 | 0924 3.12 |
| MO | 1521 | 3.71 | TU | 1447 4.08 |
| | 2344 | 1.29 | | 2225 0.98 |
| 5 | 0746 | 3.62 | 20 | 0700 3.65 |
| | 1058 | 3.23 | 20 | 1025 3.02 |
| TU | 1620 | 3.67 | WE | 1609 4.08 |
| | ● | | ○ | 2347 0.98 |
| 6 | 0036 | 1.29 | 21 | 0730 3.75 |
| | 0813 | 3.65 | 21 | 1129 2.86 |
| WE | 1202 | 3.15 | TH | 1722 4.07 |
| | 1710 | 3.64 | | |
| 7 | 0116 | 1.31 | 22 | 0101 1.02 |
| | 0834 | 3.67 | 22 | 0756 3.83 |
| TH | 1307 | 3.04 | FR | 1252 2.63 |
| | 1757 | 3.60 | | 1830 4.02 |
| 8 | 0150 | 1.35 | 23 | 0146 1.14 |
| | 0852 | 3.68 | 23 | 0823 3.92 |
| FR | 1403 | 2.90 | SA | 1415 2.34 |
| | 1842 | 3.54 | | 1935 3.91 |
| 9 | 0217 | 1.43 | 24 | 0224 1.33 |
| | 0909 | 3.72 | 24 | 0852 4.02 |
| SA | 1449 | 2.74 | SU | 1515 2.03 |
| | 1929 | 3.46 | | 2041 3.76 |
| 10 | 0238 | 1.53 | 25 | 0301 1.57 |
| | 0926 | 3.78 | 25 | 0923 4.11 |
| SU | 1531 | 2.56 | MO | 1609 1.74 |
| | 2020 | 3.38 | | 2148 3.60 |
| 11 | 0257 | 1.65 | 26 | 0339 1.85 |
| | 0942 | 3.85 | 26 | 0955 4.15 |
| MO | 1611 | 2.34 | TU | 1658 1.51 |
| | 2114 | 3.30 | ○ | 2255 3.46 |
| 12 | 0319 | 1.79 | 27 | 0419 2.15 |
| | 1000 | 3.95 | 27 | 1028 4.14 |
| TU | 1647 | 2.10 | WE | 1745 1.34 |
| | 2212 | 3.24 | | |
| 13 | 0348 | 1.97 | 28 | 0002 3.36 |
| | 1021 | 4.04 | 28 | 0503 2.44 |
| WE | 1723 | 1.84 | TH | 1059 4.07 |
| | 2313 | 3.20 | | 1830 1.26 |
| 14 | 0423 | 2.20 | | |
| | 1046 | 4.11 | | |
| TH | 1802 | 1.59 | | |
| | | | | |
| 15 | 0019 | 3.18 | | |
| | 0504 | 2.47 | | |
| FR | 1115 | 4.15 | | |
| | 1846 | 1.37 | | |
| 31 | 0125 | 3.10 | | |
| | 0611 | 2.50 | | |
| TH | 1219 | 4.13 | | |
| | 1956 | 1.38 | | |

MARCH

| | Time | m | Time | m |
|-----------|------|------|-----------|-----------|
| 1 | 0108 | 3.29 | 16 | 0012 3.38 |
| | 0552 | 2.70 | 16 | 0451 2.63 |
| FR | 1129 | 3.95 | SA | 1032 4.00 |
| | 1913 | 1.26 | | 1815 1.07 |
| 2 | 0217 | 3.25 | 17 | 0116 3.36 |
| | 0647 | 2.91 | 17 | 0551 2.81 |
| SA | 1202 | 3.80 | SU | 1113 3.97 |
| | 1958 | 1.30 | | 1906 1.01 |
| 3 | 0352 | 3.27 | 18 | 0227 3.35 |
| | 0745 | 3.05 | 18 | 0705 2.91 |
| SU | 1243 | 3.64 | MO | 1207 3.89 |
| | 2044 | 1.38 | | 1959 1.01 |
| 4 | 0546 | 3.37 | 19 | 0341 3.38 |
| | 0842 | 3.10 | 19 | 0812 2.90 |
| MO | 1356 | 3.50 | TU | 1321 3.78 |
| | 2140 | 1.45 | | 2055 1.07 |
| 5 | 0629 | 3.45 | 20 | 0458 3.46 |
| | 0941 | 3.09 | 20 | 0914 2.79 |
| TU | 1519 | 3.44 | WE | 1459 3.72 |
| | 2308 | 1.51 | | 2154 1.16 |
| 6 | 0658 | 3.49 | 21 | 0550 3.56 |
| | 1056 | 3.01 | 21 | 1017 2.59 |
| WE | 1623 | 3.42 | TH | 1627 3.73 |
| | 2308 | 1.28 | | |
| 7 | 0013 | 1.52 | 22 | 0626 3.64 |
| | 0719 | 3.51 | 22 | 1153 2.33 |
| TH | 1231 | 2.85 | FR | 1738 3.75 |
| | 1718 | 3.42 | | |
| 8 | 0054 | 1.56 | 23 | 0036 1.40 |
| | 0737 | 3.52 | 23 | 0656 3.72 |
| FR | 1318 | 2.66 | SA | 1319 1.98 |
| | 1807 | 3.42 | | 1845 3.74 |
| 9 | 0126 | 1.63 | 24 | 0121 1.58 |
| | 0754 | 3.55 | 24 | 0725 3.80 |
| SA | 1358 | 2.46 | SU | 1413 1.65 |
| | 1855 | 3.40 | | 1951 3.69 |
| 10 | 0151 | 1.73 | 25 | 0157 1.79 |
| | 0808 | 3.59 | 25 | 0756 3.87 |
| SU | 1434 | 2.25 | MO | 1500 1.38 |
| | 1943 | 3.38 | | 2056 3.63 |
| 11 | 0210 | 1.84 | 26 | 0235 2.01 |
| | 0824 | 3.65 | 26 | 0829 3.91 |
| MO | 1510 | 2.03 | TU | 1545 1.17 |
| | 2034 | 3.37 | | 2157 3.57 |
| 12 | 0230 | 1.97 | 27 | 0315 2.22 |
| | 0841 | 3.74 | 27 | 0904 3.90 |
| TU | 1545 | 1.80 | WE | 1629 1.04 |
| | 2125 | 3.37 | | 2256 3.53 |
| 13 | 0255 | 2.11 | 28 | 0358 2.41 |
| | 0903 | 3.83 | 28 | 0939 3.84 |
| WE | 1617 | 1.58 | TH | 1711 1.00 |
| | 2218 | 3.38 | ○ | 2351 3.48 |
| 14 | 0327 | 2.26 | 29 | 0445 2.58 |
| | 0929 | 3.91 | 29 | 1013 3.72 |
| TH | 1651 | 1.37 | FR | 1751 1.02 |
| | 2313 | 3.39 | | |
| 15 | 0406 | 2.44 | 30 | 0044 3.42 |
| | 0958 | 3.97 | 30 | 0539 2.71 |
| FR | 1729 | 1.19 | SA | 1046 3.58 |
| | 1831 | 1.10 | | 1831 1.10 |
| 31 | 0137 | 3.36 | | |
| | 0635 | 2.80 | | |
| SU | 1120 | 3.41 | | |
| | 1913 | 1.23 | | |

APRIL

| | Time | m | Time | m |
|----------|------|------|-----------|-----------|
| 1 | 0234 | 3.30 | 16 | 0158 3.41 |
| | 0730 | 2.84 | 16 | 0704 2.62 |
| MO | 1209 | 3.23 | TU | 1203 3.43 |
| | 1956 | 1.37 | | 1934 1.00 |
| 2 | 0340 | 3.27 | 17 | 0258 3.41 |
| | 0827 | 2.82 | 17 | 0808 2.48 |
| TU | 1348 | 3.09 | WE | 1342 3.28 |
| | 2043 | 1.53 | | 2028 1.18 |
| 3 | 0448 | 3.2 | | |

AUSTRALIA, TORRES STRAIT – BOOBY ISLAND

2019

LAT 10° 36' S LONG 141° 55' E

Times and Heights of High and Low Waters

Time Zone –1000

MAY

JUNE

JULY

AUGUST

| | Time | m | | Time | m | | Time | m | | Time | m | | Time | m | | | | |
|-----------|------|------|-----------|------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|-----------|------|------|
| 1 | 0224 | 3.24 | 16 | 0215 | 3.43 | | 1 | 0230 | 3.21 | 16 | 0251 | 3.39 | 1 | 0149 | 3.29 | 16 | 0244 | 3.24 |
| WE | 0814 | 2.44 | | 0810 | 1.92 | | 1018 | 1.53 | | 1038 | 0.83 | | 0921 | 0.90 | | 1055 | 0.60 | |
| WE | 1336 | 2.69 | TH | 1415 | 2.88 | SA | 1626 | 2.53 | SU | 1751 | 2.90 | MO | 1747 | 2.73 | TU | 1902 | 3.08 | |
| WE | 1949 | 1.54 | | 2002 | 1.39 | | 2025 | 2.08 | | 2131 | 2.33 | | 2048 | 2.45 | | 2213 | 2.63 | |
| 2 | 0309 | 3.21 | 17 | 0301 | 3.43 | | 2 | 0302 | 3.22 | 17 | 0330 | 3.35 | 2 | 0228 | 3.31 | 17 | 0333 | 3.17 |
| 1018 | 2.26 | | 0928 | 1.63 | | 1103 | 1.24 | | 1134 | 0.64 | | 1016 | 0.69 | | 1153 | 0.59 | | |
| TH | 1506 | 2.66 | FR | 1545 | 2.90 | SU | 1751 | 2.74 | MO | 1859 | 3.08 | TU | 1846 | 2.95 | WE | 1946 | 3.17 | |
| TH | 2032 | 1.75 | | 2056 | 1.71 | | 2122 | 2.30 | ○ | 2235 | 2.50 | | 2155 | 2.59 | ○ | 2312 | 2.63 | |
| 3 | 0350 | 3.21 | 18 | 0344 | 3.43 | | 3 | 0336 | 3.24 | 18 | 0409 | 3.31 | 3 | 0312 | 3.34 | 18 | 0425 | 3.12 |
| 1115 | 2.00 | | 1107 | 1.28 | | 1143 | 0.98 | | 1221 | 0.54 | | 1120 | 0.53 | | 1244 | 0.60 | | |
| FR | 1628 | 2.73 | SA | 1716 | 3.00 | MO | 1849 | 2.95 | TU | 1951 | 3.21 | WE | 1935 | 3.12 | TH | 2022 | 3.20 | |
| FR | 2120 | 1.95 | | 2155 | 2.01 | ● | 2231 | 2.45 | | 2336 | 2.58 | ● | 2258 | 2.63 | | | | |
| 4 | 0423 | 3.22 | 19 | 0421 | 3.44 | | 4 | 0409 | 3.28 | 19 | 0451 | 3.26 | 4 | 0403 | 3.38 | 19 | 0009 | 2.57 |
| 1154 | 1.72 | | 1203 | 0.97 | | 1222 | 0.76 | | 1304 | 0.51 | | 1224 | 0.40 | | 0517 | 3.07 | | |
| SA | 1743 | 2.86 | SU | 1838 | 3.15 | TU | 1938 | 3.13 | WE | 2034 | 3.28 | TH | 2016 | 3.24 | FR | 1328 | 0.63 | |
| SA | 2223 | 1.2 | ○ | 2303 | 2.24 | | 2340 | 2.53 | | | | | 2355 | 2.59 | | 2052 | 3.19 | |
| 5 | 0450 | 3.25 | 20 | 0456 | 3.45 | | 5 | 0445 | 3.33 | 20 | 0031 | 2.58 | 5 | 0458 | 3.41 | 20 | 0106 | 2.49 |
| 1229 | 1.44 | | 1249 | 0.74 | | 1302 | 0.59 | | 0535 | 3.20 | | 1318 | 0.32 | | 0606 | 3.02 | | |
| SU | 1842 | 3.00 | MO | 1940 | 3.28 | WE | 2023 | 3.26 | TH | 1345 | 0.52 | FR | 2052 | 3.30 | SA | 1406 | 0.68 | |
| ● | 2354 | 2.24 | | | | | | | | 2111 | 3.30 | | | | | 2117 | 3.18 | |
| 6 | 0516 | 3.30 | 21 | 0007 | 2.39 | | 6 | 0031 | 2.55 | 21 | 0121 | 2.53 | 6 | 0049 | 2.51 | 21 | 0204 | 2.39 |
| 1304 | 1.20 | | 0533 | 3.44 | | 0526 | 3.37 | | 0620 | 3.13 | | 0558 | 3.42 | | 0655 | 2.95 | | |
| MO | 1932 | 3.14 | TU | 1330 | 0.61 | TH | 1342 | 0.47 | FR | 1424 | 0.55 | SA | 1406 | 0.29 | SU | 1440 | 0.75 | |
| | 2032 | 3.37 | | | | 2104 | 3.34 | | 2143 | 3.30 | | 2124 | 3.34 | | 2139 | 3.18 | | |
| 7 | 0035 | 2.33 | 22 | 0058 | 2.47 | | 7 | 0116 | 2.53 | 22 | 0211 | 2.47 | 7 | 0144 | 2.39 | 22 | 0259 | 2.27 |
| 0543 | 3.35 | | 0611 | 3.40 | | 0612 | 3.40 | | 0707 | 3.04 | | 0702 | 3.38 | | 0744 | 2.86 | | |
| TU | 1337 | 0.99 | WE | 1410 | 0.55 | FR | 1423 | 0.39 | SA | 1502 | 0.61 | SU | 1450 | 0.32 | MO | 1509 | 0.85 | |
| | 2018 | 3.27 | | 2117 | 3.42 | | 2140 | 3.39 | | 2211 | 3.29 | | 2152 | 3.38 | | 2200 | 3.19 | |
| 8 | 0109 | 2.40 | 23 | 0144 | 2.50 | | 8 | 0202 | 2.49 | 23 | 0305 | 2.39 | 8 | 0248 | 2.22 | 23 | 0349 | 2.13 |
| 0614 | 3.40 | | 0652 | 3.33 | | 0704 | 3.39 | | 0755 | 2.94 | | 0808 | 3.29 | | 0834 | 2.76 | | |
| WE | 1413 | 0.82 | TH | 1448 | 0.54 | SA | 1505 | 0.37 | SU | 1536 | 0.69 | MO | 1531 | 0.43 | TU | 1532 | 0.97 | |
| WE | 2101 | 3.36 | | 2157 | 3.44 | | 2216 | 3.43 | | 2238 | 3.29 | | 2223 | 3.44 | | 2221 | 3.22 | |
| 9 | 0144 | 2.45 | 24 | 0232 | 2.50 | | 9 | 0252 | 2.41 | 24 | 0359 | 2.30 | 9 | 0358 | 2.01 | 24 | 0434 | 1.96 |
| 0647 | 3.45 | | 0735 | 3.24 | | 0801 | 3.34 | | 0843 | 2.82 | | 0915 | 3.14 | | 0927 | 2.65 | | |
| TH | 1447 | 0.69 | FR | 1526 | 0.58 | SU | 1546 | 0.39 | MO | 1606 | 0.81 | TU | 1611 | 0.61 | WE | 1554 | 1.13 | |
| TH | 2143 | 3.43 | | 2233 | 3.43 | | 2251 | 3.45 | | 2306 | 3.28 | | 2256 | 3.50 | | 2241 | 3.27 | |
| 10 | 0221 | 2.48 | 25 | 0321 | 2.47 | | 10 | 0352 | 2.30 | 25 | 0452 | 2.19 | 10 | 0503 | 1.74 | 25 | 0515 | 1.75 |
| 0726 | 3.48 | | 0819 | 3.12 | | 0903 | 3.24 | | 0933 | 2.69 | | 1027 | 2.96 | | 1023 | 2.56 | | |
| FR | 1523 | 0.60 | SA | 1604 | 0.65 | MO | 1629 | 0.49 | TU | 1635 | 0.95 | WE | 1653 | 0.89 | TH | 1617 | 1.32 | |
| | 2225 | 3.47 | | 2308 | 3.41 | ● | 2329 | 3.47 | ○ | 2332 | 3.29 | | 2332 | 3.54 | ○ | 2300 | 3.31 | |
| 11 | 0303 | 2.50 | 26 | 0414 | 2.44 | | 11 | 0458 | 2.14 | 26 | 0541 | 2.04 | 11 | 0603 | 1.44 | 26 | 0553 | 1.52 |
| 0811 | 3.48 | | 0903 | 2.99 | | 1011 | 3.08 | | 1030 | 2.55 | | 1144 | 2.78 | | 1124 | 2.50 | | |
| SA | 1602 | 0.55 | SU | 1639 | 0.76 | TU | 1713 | 0.68 | WE | 1701 | 1.14 | TH | 1736 | 1.24 | FR | 1646 | 1.55 | |
| SA | 2307 | 3.49 | | 2341 | 3.38 | | | | 2357 | 3.29 | | 2321 | 3.35 | | | | | |
| 12 | 0352 | 2.49 | 27 | 0508 | 2.39 | | 12 | 0008 | 3.49 | 27 | 0627 | 1.86 | 12 | 0009 | 3.54 | 27 | 0629 | 1.28 |
| 0900 | 3.44 | | 0947 | 2.85 | | 0605 | 1.92 | | 1136 | 2.43 | | 0701 | 1.16 | | 1231 | 2.47 | | |
| SU | 1644 | 0.56 | MO | 1713 | 0.90 | WE | 1128 | 2.88 | TH | 1730 | 1.37 | FR | 1306 | 2.65 | SA | 1722 | 1.83 | |
| ● | 2351 | 3.48 | ○ | | | 1759 | 0.96 | | | | | 1824 | 1.63 | | 2345 | 3.37 | | |
| 13 | 0453 | 2.45 | 28 | 0015 | 3.33 | | 13 | 0050 | 3.48 | 28 | 0021 | 3.29 | 13 | 0045 | 3.50 | 28 | 0706 | 1.05 |
| 0956 | 3.34 | | 0602 | 2.31 | | 0707 | 1.65 | | 0710 | 1.63 | | 0757 | 0.93 | | 1344 | 2.50 | | |
| MO | 1731 | 0.65 | TU | 1038 | 2.69 | TH | 1259 | 2.72 | FR | 1251 | 2.36 | SA | 1432 | 2.62 | SU | 1808 | 2.12 | |
| | | | | 1746 | 1.09 | | 1847 | 1.30 | | 1805 | 1.64 | | 1916 | 2.01 | | | | |
| 14 | 0038 | 3.46 | 29 | 0049 | 3.29 | | 14 | 0131 | 3.46 | 29 | 0047 | 3.29 | 14 | 0122 | 3.42 | 29 | 0013 | 3.38 |
| 0600 | 2.35 | | 0655 | 2.19 | | 0813 | 1.36 | | 0752 | 1.39 | | 0855 | 0.75 | | 0748 | 0.84 | | |
| TU | 1102 | 3.17 | WE | 1147 | 2.54 | FR | 1427 | 2.66 | SA | 1413 | 2.38 | SU | 1630 | 2.71 | MO | 1521 | 2.59 | |
| | 1820 | 0.83 | | 1819 | 1.31 | | 1937 | 1.68 | | 1849 | 1.94 | | 2012 | 2.32 | | 1911 | 2.39 | |
| 15 | 0126 | 3.44 | 30 | 0123 | 3.25 | | 15 | 0212 | 3.43 | 30 | 0117 | 3.29 | 15 | 0200 | 3.33 | 30 | 0048 | 3.39 |
| 0706 | 2.17 | | 0751 | 2.02 | | 0927 | 1.08 | | 0835 | 1.13 | | 0954 | 0.65 | | 0834 | 0.67 | | |
| WE | 1230 | 2.97 | TH | 1314 | 2.43 | SA | 1606 | 2.72 | SU | 1611 | 2.50 | MO | 1805 | 2.91 | TU | 1732 | 2.78 | |
| WE | 1910 | 1.08 | | 1855 | 1.56 | | 2032 | 2.04 | | 1944 | 2.23 | | 2112 | 2.53 | | 2023 | 2.58 | |
| 31 | 0156 | 3.22 | | | | | | | | | | | 31 | 0134 | 3.38 | 31 | 0343 | 3.36 |
| 0905 | 1.80 | | | | | | | | | | | | 0926 | 0.54 | | 1104 | 0.57 | |
| FR | 1443 | 2.42 | | | | | | | | | | | WE | 1833 | 2.98 | SA | 1906 | 3.21 |
| | 1937 | 1.82 | | | | | | | | | | | 2128 | 2.65 | | 2310 | 2.30 | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, TORRES STRAIT – BOOBY ISLAND

2019

LAT 10° 36' S LONG 141° 55' E

Times and Heights of High and Low Waters

Time Zone –1000

SEPTEMBER

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0502 | 3.39 | 16 | 0117 | 2.04 |
| | 1240 | 0.61 | | 0614 | 2.87 |
| SU | 1930 | 3.28 | MO | 1316 | 1.29 |
| | | 1930 | | 3.09 | |
| 2 | 0041 | 2.05 | 17 | 0152 | 1.84 |
| | 0612 | 3.40 | | 0704 | 2.87 |
| MO | 1328 | 0.72 | TU | 1342 | 1.42 |
| | 1956 | 3.36 | | 1946 | 3.12 |
| 3 | 0158 | 1.72 | 18 | 0227 | 1.64 |
| | 0718 | 3.35 | | 0754 | 2.87 |
| TU | 1406 | 0.91 | WE | 1403 | 1.57 |
| | 2023 | 3.45 | | 2001 | 3.16 |
| 4 | 0255 | 1.39 | 19 | 0302 | 1.44 |
| | 0826 | 3.26 | | 0842 | 2.88 |
| WE | 1441 | 1.17 | TH | 1423 | 1.71 |
| | 2054 | 3.53 | | 2017 | 3.22 |
| 5 | 0347 | 1.08 | 20 | 0336 | 1.25 |
| | 0934 | 3.16 | | 0931 | 2.91 |
| TH | 1520 | 1.45 | FR | 1446 | 1.86 |
| | 2126 | 3.58 | | 2038 | 3.28 |
| 6 | 0437 | 0.83 | 21 | 0408 | 1.06 |
| | 1042 | 3.07 | | 1019 | 2.95 |
| FR | 1602 | 1.75 | SA | 1515 | 2.02 |
| | 2200 | 3.58 | | 2102 | 3.34 |
| 7 | 0524 | 0.66 | 22 | 0439 | 0.90 |
| | 1148 | 3.00 | | 1109 | 2.99 |
| SA | 1648 | 2.03 | SU | 1550 | 2.18 |
| | 2234 | 3.51 | | 2129 | 3.39 |
| 8 | 0610 | 0.59 | 23 | 0513 | 0.76 |
| | 1253 | 2.95 | | 1202 | 3.00 |
| SU | 1741 | 2.28 | MO | 1631 | 2.35 |
| | 2307 | 3.38 | | 2201 | 3.42 |
| 9 | 0654 | 0.61 | 24 | 0553 | 0.66 |
| | 1401 | 2.92 | | 1302 | 3.00 |
| MO | 1840 | 2.47 | TU | 1727 | 2.50 |
| | 2343 | 3.22 | | 2240 | 3.41 |
| 10 | 0738 | 0.70 | 25 | 0640 | 0.62 |
| | 1527 | 2.92 | | 1407 | 3.00 |
| TU | 1940 | 2.57 | WE | 1842 | 2.59 |
| | | 2332 | | 3.34 | |
| 11 | 0031 | 3.05 | 26 | 0731 | 0.64 |
| | 0824 | 0.82 | | 1517 | 3.03 |
| WE | 1716 | 2.99 | TH | 1951 | 2.57 |
| | 2039 | 2.60 | | | |
| 12 | 0154 | 2.91 | 27 | 0045 | 3.24 |
| | 0916 | 0.96 | | 0824 | 0.70 |
| TH | 1805 | 3.05 | FR | 1626 | 3.10 |
| | 2144 | 2.55 | | 2054 | 2.43 |
| 13 | 0318 | 2.85 | 28 | 0224 | 3.18 |
| | 1037 | 1.07 | | 0921 | 0.82 |
| FR | 1836 | 3.08 | SA | 1717 | 3.19 |
| | 2347 | 2.42 | | 2157 | 2.21 |
| 14 | 0423 | 2.84 | 29 | 0401 | 3.21 |
| | 1158 | 1.13 | | 1023 | 0.97 |
| SA | 1858 | 3.08 | SU | 1753 | 3.28 |
| | | 2340 | | 1.91 | |
| 15 | 0039 | 2.24 | 30 | 0516 | 3.27 |
| | 0521 | 2.86 | | 1152 | 1.14 |
| SU | 1242 | 1.20 | MO | 1824 | 3.37 |
| | 1914 | 3.08 | | | |

OCTOBER

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0057 | 1.53 | 16 | 0123 | 1.43 |
| | 0626 | 3.31 | | 0722 | 2.95 |
| TU | 1252 | 1.33 | WE | 1304 | 1.99 |
| | 1853 | 3.45 | | 1826 | 3.22 |
| 2 | 0150 | 1.18 | 17 | 0156 | 1.22 |
| | 0735 | 3.32 | | 0810 | 3.04 |
| WE | 1332 | 1.56 | TH | 1330 | 2.11 |
| | 1923 | 3.53 | | 1846 | 3.27 |
| 3 | 0238 | 0.88 | 18 | 0228 | 1.05 |
| | 0843 | 3.31 | | 0854 | 3.13 |
| TH | 1410 | 1.80 | FR | 1356 | 2.23 |
| | 1956 | 3.57 | | 1909 | 3.31 |
| 4 | 0324 | 0.67 | 19 | 0300 | 0.91 |
| | 0945 | 3.31 | | 0938 | 3.21 |
| FR | 1451 | 2.02 | SA | 1424 | 2.33 |
| | 2032 | 3.56 | | 1936 | 3.36 |
| 5 | 0409 | 0.55 | 20 | 0331 | 0.79 |
| | 1044 | 3.29 | | 1021 | 3.27 |
| SA | 1537 | 2.21 | SU | 1458 | 2.42 |
| | 2109 | 3.50 | | 2007 | 3.40 |
| 6 | 0451 | 0.51 | 21 | 0404 | 0.71 |
| | 1139 | 3.27 | | 1103 | 3.31 |
| SU | 1628 | 2.37 | MO | 1536 | 2.50 |
| | 2145 | 3.38 | | 2043 | 3.42 |
| 7 | 0534 | 0.57 | 22 | 0439 | 0.65 |
| | 1231 | 3.23 | | 1149 | 3.32 |
| MO | 1726 | 2.49 | TU | 1623 | 2.57 |
| | 2223 | 3.22 | | 2125 | 3.40 |
| 8 | 0614 | 0.68 | 23 | 0522 | 0.64 |
| | 1324 | 3.17 | | 1238 | 3.32 |
| TU | 1827 | 2.55 | WE | 1727 | 2.60 |
| | 2303 | 3.04 | | 2217 | 3.32 |
| 9 | 0656 | 0.85 | 24 | 0610 | 0.70 |
| | 1420 | 3.12 | | 1332 | 3.31 |
| WE | 1927 | 2.56 | TH | 1839 | 2.55 |
| | | | | 2324 | 3.18 |
| 10 | 0005 | 2.84 | 25 | 0702 | 0.83 |
| | 0738 | 1.04 | | 1427 | 3.31 |
| TH | 1521 | 3.08 | FR | 1945 | 2.39 |
| | 2030 | 2.51 | | | |
| 11 | 0151 | 2.71 | 26 | 0057 | 3.02 |
| | 0823 | 1.24 | | 0754 | 1.03 |
| FR | 1623 | 3.09 | SU | 1519 | 3.35 |
| | 2255 | 2.36 | | 2050 | 2.13 |
| 12 | 0315 | 2.67 | 27 | 0252 | 2.99 |
| | 0914 | 1.44 | | 0848 | 1.28 |
| SA | 1703 | 3.10 | SU | 1604 | 3.41 |
| | 2344 | 2.13 | | 2219 | 1.80 |
| 13 | 0426 | 2.70 | 28 | 0418 | 3.07 |
| | 1044 | 1.60 | | 0945 | 1.56 |
| SU | 1729 | 3.13 | MO | 1644 | 3.48 |
| | | | | 2352 | 1.39 |
| 14 | 0019 | 1.89 | 29 | 0539 | 3.18 |
| | 0532 | 2.78 | | 1048 | 1.84 |
| MO | 1157 | 1.73 | TU | 1717 | 3.55 |
| | 1751 | 3.15 | | | |
| 15 | 0051 | 1.65 | 30 | 0043 | 1.03 |
| | 0630 | 2.86 | | 0657 | 3.30 |
| TU | 1235 | 1.86 | WE | 1158 | 2.08 |
| | 1809 | 3.18 | | 1750 | 3.61 |
| 31 | 0128 | 0.75 | | | |
| | 0803 | 3.41 | | | |
| TH | 1252 | 2.27 | | | |
| | 1824 | 3.64 | | | |

NOVEMBER

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0211 | 0.58 | 16 | 0152 | 0.81 |
| | 0901 | 3.49 | | 0903 | 3.43 |
| FR | 1339 | 2.42 | SU | 1326 | 2.72 |
| | 1901 | 3.62 | | 1809 | 3.52 |
| 2 | 0253 | 0.49 | 17 | 0225 | 0.72 |
| | 0952 | 3.53 | | 0942 | 3.52 |
| SA | 1425 | 2.52 | SU | 1401 | 2.75 |
| | 1940 | 3.55 | | 1845 | 3.55 |
| 3 | 0335 | 0.49 | 18 | 0258 | 0.67 |
| | 1038 | 3.55 | | 1018 | 3.58 |
| SU | 1514 | 2.59 | MO | 1440 | 2.76 |
| | 2022 | 3.43 | | 1926 | 3.55 |
| 4 | 0416 | 0.56 | 19 | 0333 | 0.64 |
| | 1121 | 3.54 | | 1053 | 3.61 |
| MO | 1610 | 2.62 | TU | 1525 | 2.75 |
| | 2103 | 3.28 | | | |
| 5 | 0455 | 0.68 | 20 | 0412 | 0.66 |
| | 1202 | 3.51 | | 1131 | 3.63 |
| TU | 1711 | 2.63 | WE | 1621 | 2.70 |
| | 2145 | 3.10 | | 2110 | 3.41 |
| 6 | 0534 | 0.85 | 21 | 0456 | 0.74 |
| | 1242 | 3.45 | | 1211 | 3.65 |
| WE | 1813 | 2.60 | TH | 1729 | 2.60 |
| | 2232 | 2.90 | | 2216 | 3.24 |
| 7 | 0611 | 1.05 | 22 | 0543 | 0.90 |
| | 1323 | 3.40 | | 1254 | 3.66 |
| TH | 1916 | 2.52 | FR | 1838 | 2.40 |
| | 2349 | 2.70 | | 2339 | 3.04 |
| 8 | 0649 | 1.29 | 23 | 0632 | 1.16 |
| | 1404 | 3.35 | | 1339 | 3.67 |
| FR | 2037 | 2.38 | SU | 1944 | 2.11 |
| | | | | 2120 | 1.99 |
| 9 | 0133 | 2.57 | 24 | 0129 | 2.90 |
| | 0728 | 1.55 | | 0723 | 1.49 |
| SA | 1445 | 3.33 | SU | 1423 | 3.70 |
| | 2226 | 2.14 | | 2056 | 1.77 |
| 10 | 0302 | 2.56 | 25 | 0307 | 2.91 |
| | 0808 | 1.81 | | 0815 | 1.87 |
| SU | 1523 | 3.32 | MO | 1505 | 3.72 |
| | 2308 | 1.86 | | 2230 | 1.38 |
| 11 | 0430 | 2.65 | 26 | 0444 | 3.04 |
| | 0853 | 2.07 | | 0911 | 2.23 |
| MO | 1555 | 3.34 | TU | 1543 | 3.76 |
| | 2342 | 1.59 | | 2329 | 1.03 |
| 12 | 0548 | 2.81 | 27 | 0621 | 3.25 |
| | 0946 | 2.30 | | 1012 | 2.54 |
| TU | 1623 | 3.37 | WE | 1618 | 3.78 |
| | | | | ● | |
| 13 | 0014 | 1.33 | 28 | 0017 | 0.77 |
| | 0647 | 3.00 | | 0728 | 3.45 |
| WE | 1112 | 2.47 | TH | 1117 | 2.74 |
| | 1648 | 3.40 | | 1655 | 3.79 |
| 14 | 0047 | 1.11 | 29 | 0101 | 0.62 |
| | 0736 | 3.17 | | 0822 | 3.60 |
| TH | 1212 | 2.59 | FR | 1217 | 2.86 |
| | 1713 | 3.44 | | 1734 | 3.77 |
| 15 | 0119 | 0.93 | 30 | 0142 | 0.57 |
| | 0821 | 3.32 | | 0909 | 3.68 |
| FR | 1251 | 2.67 | SU | 1309 | 2.89 |
| | 1739 | 3.48 | | 1815 | 3.70 |
| 31 | 0128 | 0.75 | | | |
| | 0803 | 3.41 | | | |
| TH | 1252 | 2.27 | | | |
| | 1824 | 3.64 | | | |

DECEMBER

| | Time | m | | Time | m |
|--|------|---|--|------|---|
|--|------|---|--|------|---|

AUSTRALIA, GULF OF CARPENTARIA – WEIPA (HUMBUG POINT)

2019

LAT 12° 40' S LONG 141° 52' E

Times and Heights of High and Low Waters

Time Zone –1000

| JANUARY | | | | FEBRUARY | | | | MARCH | | | | APRIL | | | | |
|---------|------|---------|------|----------|------|---------|------|---------|------|---------|------|---------|---------|---------|---------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
| 1 0023 | 2.21 | 16 0510 | 1.82 | 1 1414 | 2.96 | 16 1242 | 2.98 | 1 1233 | 2.81 | 16 1049 | 2.80 | 1 0532 | 2.35 | 16 0408 | 2.25 | |
| 0637 | 1.73 | 1257 | 2.77 | 2228 | 1.27 | 2131 | 1.27 | 2050 | 1.39 | 1937 | 1.24 | 0915 | 2.29 | 0757 | 2.14 | |
| TU 1411 | 2.85 | WE 2011 | 1.78 | FR | | SA | | FR | | SA | | MO 1357 | 2.49 | TU 1330 | 2.52 | |
| 2058 | 1.59 | | | | | | | | | | | 2157 | 1.31 | 2130 | 1.06 | |
| 2 0227 | 2.11 | 17 0102 | 2.13 | 2 1450 | 2.97 | 17 1341 | 3.05 | 2 1330 | 2.80 | 17 1151 | 2.83 | 2 0529 | 2.35 | 17 0422 | 2.29 | |
| 0631 | 1.94 | 0525 | 1.98 | 2315 | 1.18 | 2235 | 1.10 | 2152 | 1.33 | 2054 | 1.17 | 1006 | 2.19 | 0924 | 1.96 | |
| WE 1434 | 2.90 | TH 1319 | 2.87 | SA | | SU | | SA | | SU | | TU 1456 | 2.50 | WE 1443 | 2.53 | |
| 2159 | 1.37 | 2110 | 1.54 | | | | | | | | | 2244 | 1.32 | 2229 | 1.10 | |
| 3 0437 | 2.13 | 18 1347 | 2.97 | 3 1530 | 2.98 | 18 1446 | 3.12 | 3 1424 | 2.80 | 18 0514 | 2.35 | 3 0535 | 2.34 | 18 0430 | 2.34 | |
| 0640 | 2.09 | 2208 | 1.30 | 2358 | 1.12 | 2331 | 0.96 | 2243 | 1.29 | 0603 | 2.34 | 1048 | 2.08 | 1030 | 1.74 | |
| TH 1457 | 2.94 | FR | | SU | | MO | | SU | | MO | 1328 | 2.85 | WE 1548 | 2.51 | TH 1546 | 2.53 |
| 2252 | 1.19 | | | | | | | | 2205 | 1.08 | | 2325 | 1.33 | 2319 | 1.18 | |
| 4 1521 | 2.97 | 19 0510 | 2.25 | 4 1612 | 2.99 | 19 1547 | 3.18 | 4 1517 | 2.81 | 19 0517 | 2.38 | 4 0536 | 2.34 | 19 0449 | 2.41 | |
| 2339 | 1.05 | 0629 | 2.24 | MO | | TU | | 2327 | 1.25 | 0740 | 2.30 | 1128 | 1.95 | 1131 | 1.48 | |
| FR | | SA 1420 | 3.07 | | | | | MO | | TU 1444 | 2.90 | 1635 | 2.51 | FR 1647 | 2.51 | |
| 2302 | 1.08 | 2302 | | | | | | 2303 | 1.02 | | | 2359 | 1.37 | ○ | | |
| 5 1548 | 2.99 | 20 1501 | 3.15 | 5 0036 | 1.09 | 20 0021 | 0.87 | 5 1605 | 2.82 | 20 0537 | 2.41 | 5 0534 | 2.37 | 20 0002 | 1.29 | |
| SA | | 2353 | 0.89 | 0734 | 2.45 | 0702 | 2.48 | TU 0914 | 2.43 | WE 0946 | 2.36 | 1205 | 1.81 | 0518 | 2.49 | |
| ● | | | | ● 1654 | 2.99 | ○ 1645 | 3.20 | | | TU | | WE 1547 | 2.93 | 1717 | 2.49 | |
| 6 0020 | 0.95 | 21 1549 | 3.22 | 6 0112 | 1.10 | 21 0107 | 0.85 | 6 0007 | 1.24 | 21 0550 | 2.45 | 6 0027 | 1.43 | 21 0040 | 1.44 | |
| 1618 | 3.00 | MO | | 0751 | 2.46 | 0727 | 2.53 | WE 1017 | 2.41 | TH 1200 | 2.27 | 0546 | 2.42 | 0551 | 2.57 | |
| ● | | 1734 | 2.97 | | | 1741 | 3.19 | 1734 | 2.97 | | | 1242 | 1.64 | SU 1319 | 1.00 | |
| 7 0059 | 0.90 | 22 0041 | 0.75 | 7 0145 | 1.13 | 22 0149 | 0.91 | 7 0041 | 1.26 | 22 0038 | 1.06 | 7 0052 | 1.49 | 22 0113 | 1.59 | |
| 0806 | 2.37 | 0744 | 2.46 | 0809 | 2.47 | 0748 | 2.59 | TH 1128 | 2.39 | FR 1321 | 2.11 | 0607 | 2.49 | 0622 | 2.62 | |
| MO 0921 | 2.36 | TU 0934 | 2.42 | 1809 | 2.95 | 1836 | 3.11 | 1809 | 2.95 | | | 1320 | 1.47 | MO 1408 | 0.84 | |
| 1652 | 2.99 | 1642 | 3.25 | | | | | | | | | 1833 | 2.44 | 1943 | 2.29 | |
| 8 0136 | 0.90 | 23 0128 | 0.68 | 8 0215 | 1.19 | 23 0230 | 1.05 | 8 0112 | 1.29 | 23 0119 | 1.17 | 8 0116 | 1.58 | 23 0137 | 1.75 | |
| 0832 | 2.40 | 0826 | 2.50 | 0822 | 2.49 | 0815 | 2.66 | FR 1254 | 2.34 | SA 1425 | 1.93 | 0632 | 2.56 | 0653 | 2.64 | |
| TU 1011 | 2.38 | WE 1042 | 2.42 | 1841 | 2.89 | 1929 | 2.96 | | | 1237 | 2.13 | SA 1323 | 1.58 | 1359 | 1.30 | |
| 1728 | 2.97 | 1737 | 3.25 | | | | | 1803 | 2.79 | 1837 | 2.80 | 1911 | 2.39 | 2041 | 2.19 | |
| 9 0210 | 0.94 | 24 0213 | 0.70 | 9 0241 | 1.28 | 24 0307 | 1.27 | 9 0139 | 1.35 | 24 0156 | 1.34 | 9 0139 | 1.69 | 24 0142 | 1.89 | |
| 1805 | 2.93 | 0905 | 2.54 | 0842 | 2.53 | 0851 | 2.74 | SA 1407 | 2.27 | SU 1527 | 1.78 | 0659 | 2.60 | 0723 | 2.62 | |
| WE | | TH 1228 | 2.40 | 1407 | 2.27 | 1527 | 1.78 | 1912 | 2.81 | 2020 | 2.76 | TU 1440 | 1.16 | WE 1539 | 0.77 | |
| | | 1833 | 3.20 | | | | | | | | | 1954 | 2.32 | 2147 | 2.10 | |
| 10 0243 | 1.00 | 25 0255 | 0.80 | 10 0305 | 1.39 | 25 0342 | 1.53 | 10 0202 | 1.44 | 25 0229 | 1.55 | 10 0155 | 1.82 | 25 0117 | 1.97 | |
| 1840 | 2.87 | 0944 | 2.59 | 0907 | 2.58 | 0928 | 2.79 | 0733 | 2.58 | 0749 | 2.74 | 0725 | 2.63 | 0754 | 2.57 | |
| TH | | FR 1421 | 2.31 | SU 1508 | 2.19 | MO 1628 | 1.66 | 1408 | 1.86 | MO 1512 | 1.26 | 1524 | 1.06 | TH 1623 | 0.83 | |
| | | 1928 | 3.08 | 1947 | 2.70 | 2115 | 2.52 | 1907 | 2.66 | 2023 | 2.48 | 2045 | 2.24 | 2320 | 2.04 | |
| 11 0312 | 1.10 | 26 0337 | 0.98 | 11 0327 | 1.53 | 26 0407 | 1.79 | 11 0224 | 1.56 | 26 0255 | 1.77 | 11 0149 | 1.94 | 26 0105 | 2.01 | |
| 1054 | 2.44 | 1024 | 2.65 | 0938 | 2.64 | 1009 | 2.83 | 0759 | 2.63 | 0822 | 2.76 | 0754 | 2.64 | 0831 | 2.48 | |
| FR 1247 | 2.43 | SA 1539 | 2.18 | MO 1609 | 2.08 | TU 1730 | 1.57 | 1455 | 1.73 | TU 1604 | 1.20 | 1611 | 1.00 | FR 1708 | 0.93 | |
| 1913 | 2.79 | 2023 | 2.89 | 2029 | 2.57 | ○ 2225 | 2.30 | 1945 | 2.57 | 2122 | 2.30 | 2152 | 2.16 | | | |
| 12 0340 | 1.21 | 27 0417 | 1.23 | 12 0346 | 1.70 | 27 0406 | 2.02 | 12 0244 | 1.70 | 27 0300 | 1.97 | 12 0144 | 2.02 | 27 0919 | 2.38 | |
| 1147 | 2.48 | 1106 | 2.73 | 1010 | 2.70 | 1051 | 2.84 | 0827 | 2.68 | 0855 | 2.74 | 0825 | 2.64 | 1755 | 1.03 | |
| SA 1513 | 2.43 | SU 1654 | 2.03 | 1708 | 1.95 | WE 1833 | 1.50 | 1543 | 1.61 | WE 1656 | 1.19 | 1703 | 0.97 | SA | | |
| 1949 | 2.67 | 2120 | 2.65 | 2126 | 2.41 | | | 2031 | 2.45 | 2303 | 2.16 | | | ○ | | |
| 13 0406 | 1.35 | 28 0454 | 1.51 | 13 0355 | 1.87 | 28 0125 | 2.17 | 13 0255 | 1.86 | 28 0213 | 2.10 | 13 0909 | 2.62 | 28 0459 | 2.21 | |
| 1212 | 2.53 | 1150 | 2.81 | 1044 | 2.76 | 0301 | 2.17 | 0856 | 2.72 | 0931 | 2.70 | 1800 | 0.98 | 0708 | 2.18 | |
| SU 1655 | 2.35 | MO 1805 | 1.87 | WE 1809 | 1.79 | TH 1138 | 2.83 | WE 1634 | 1.50 | TH 1749 | 1.22 | 1025 | | 1845 | 1.12 | |
| 2032 | 2.53 | ○ 2228 | 2.40 | ● 2244 | 2.26 | 1941 | 1.45 | 2129 | 2.32 | ○ | | | | | | |
| 14 0430 | 1.49 | 29 0517 | 1.79 | 14 0350 | 2.02 | | | 1729 | 1.40 | FR | | 1012 | 2.58 | 29 0437 | 2.21 | |
| 1223 | 2.60 | 1230 | 2.87 | 1119 | 2.83 | TH 1912 | 1.62 | ● 2254 | 2.21 | | | 1904 | 1.00 | 0829 | 2.08 | |
| MO 1809 | 2.20 | TU 1916 | 1.71 | | | | | | | | | MO 1156 | | 1156 | 2.18 | |
| ○ 2131 | 2.37 | | | | | | | | | | | 1942 | 1.20 | | | |
| 15 0453 | 1.66 | 30 0025 | 2.19 | 15 0105 | 2.19 | | | | | | | 1142 | 2.54 | 30 0430 | 2.21 | |
| 1237 | 2.68 | 0511 | 2.02 | 0352 | 2.15 | FR 1157 | 2.91 | | | | | 2018 | 1.03 | 0920 | 1.95 | |
| TU 1912 | 2.01 | WE 1306 | 2.91 | 2020 | 1.44 | | | FR 1828 | 1.32 | SA | | MO | | TU 1322 | 2.13 | |
| 2257 | 2.21 | 2026 | 1.54 | | | | | | | | | 2042 | 1.27 | | | |
| 31 | 1340 | 2.94 | | | | | | | | | | | | | | |
| TH | 2132 | 1.39 | | | | | | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – WEIPA (HUMBUG POINT)

2019

LAT 12° 40' S LONG 141° 52' E

Times and Heights of High and Low Waters

| MAY | | | | | | | | JUNE | | | | | | | | JULY | | | | | | | | AUGUST | | | | | | | | | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|--------|------|---------|------|
| Time | m | | | | | | | | | | | | |
| 1 0432 | 2.20 | 16 0324 | 2.22 | 1 0312 | 2.17 | 16 0328 | 2.31 | 1 0235 | 2.25 | 16 0326 | 2.28 | 1 0317 | 2.42 | 16 0447 | 2.24 | 2 0416 | 2.47 | 17 0529 | 2.24 | 2 0416 | 2.47 | 17 0529 | 2.24 | 3 0515 | 2.50 | 18 0024 | 1.70 | | | | | | | | | | | | |
| 1001 | 1.81 | 16 0935 | 1.47 | 1 1049 | 1.10 | 16 1122 | 0.60 | 1 1101 | 0.64 | 16 1155 | 0.40 | 1 1214 | 0.27 | 16 1252 | 0.56 | 2 1301 | 0.21 | 17 1325 | 0.62 | 3 1345 | 0.21 | 18 0607 | 2.22 | 3 1345 | 0.21 | 18 0607 | 2.22 | 4 0031 | 1.68 | 19 0119 | 1.60 | | | | | | | | |
| WE 1428 | 2.12 | TH 1441 | 2.12 | SA 1616 | 1.82 | SU 1755 | 1.82 | MO 1743 | 1.76 | TU | | MO 2004 | 1.71 | WE 1928 | 1.86 | WE 2134 | 1.81 | 4 0612 | 2.49 | 19 0640 | 2.18 | 4 0612 | 2.49 | 19 0640 | 2.18 | 5 0153 | 1.54 | 20 0206 | 1.51 | | | | | | | | | | |
| 2136 | 1.33 | 2145 | 1.24 | 2112 | 1.54 | 2053 | 1.71 | | | | | WE 1922 | 1.88 | TH 1947 | 1.87 | WE 2151 | 1.80 | 5 0708 | 2.41 | 20 0712 | 2.11 | 5 0708 | 2.41 | 20 0712 | 2.11 | 5 1509 | 0.45 | TU 1440 | 0.93 | | | | | | | | | | |
| 2 0430 | 2.20 | 17 0342 | 2.29 | 2 0332 | 2.25 | 17 0357 | 2.35 | 2 0306 | 2.32 | 17 0405 | 2.29 | 2 0425 | 2.44 | 19 0529 | 2.27 | 6 0302 | 1.39 | 21 0255 | 1.41 | 6 0803 | 2.27 | 21 0746 | 2.01 | 6 0803 | 2.27 | 21 0746 | 2.01 | 7 0410 | 1.24 | 22 0346 | 1.30 | | | | | | | | |
| 1039 | 1.66 | 17 1034 | 1.21 | SU 1723 | 1.86 | MO 1852 | 1.85 | 2 1148 | 0.45 | 17 1238 | 0.36 | 7 0704 | 2.42 | 22 0728 | 2.13 | SU 1531 | 0.28 | MO 1524 | 0.72 | 7 0902 | 2.06 | 22 0825 | 1.89 | 7 0902 | 2.06 | 22 0825 | 1.89 | 7 1624 | 0.97 | TH 1507 | 1.24 | | | | | | | | |
| TH 1526 | 2.12 | FR 1552 | 2.09 | 2153 | 1.64 | ○ 2132 | 1.77 | TU | | WE 1947 | 1.87 | 7 2157 | 1.93 | 2119 | 1.88 | 2218 | 2.16 | 2107 | 2.13 | 7 1624 | 0.97 | TH 1507 | 1.24 | 8 0520 | 1.09 | 23 0439 | 1.19 | | | | | | | | | | | | |
| 2220 | 1.40 | 2233 | 1.39 | MO 1824 | 1.91 | TU 1933 | 1.88 | WE 2007 | 1.89 | WE 2328 | 1.81 | 2332 | 1.79 | 8 0658 | 2.44 | 23 0740 | 2.16 | MO 1615 | 0.46 | TU 1546 | 0.87 | 8 1009 | 1.83 | 23 0917 | 1.75 | 8 1009 | 1.83 | 23 0917 | 1.75 | 9 0417 | 1.56 | 24 0418 | 1.56 | | | | | | |
| 3 0418 | 2.23 | 18 0407 | 2.36 | 3 1209 | 0.68 | 18 1255 | 0.34 | 3 1233 | 0.29 | 18 1317 | 0.36 | 3 1403 | 0.14 | 20 1427 | 0.49 | 9 0906 | 2.16 | 24 0844 | 1.89 | 9 1212 | 1.64 | 24 1035 | 1.64 | 9 1212 | 1.64 | 24 1035 | 1.64 | 10 0539 | 1.40 | 25 0527 | 1.45 | | | | | | | | |
| 1116 | 1.50 | 18 1130 | 0.95 | ● 2230 | 1.72 | 2213 | 1.80 | WE 2027 | 1.89 | WE 2342 | 1.77 | WE 2328 | 1.77 | WE 2342 | 1.77 | 9 0912 | 0.80 | 28 0829 | 0.92 | 10 1642 | 1.51 | 25 1437 | 1.54 | 10 1642 | 1.51 | 25 1437 | 1.54 | 10 2351 | 2.22 | 26 2159 | 2.21 | | | | | | | | |
| FR 1621 | 2.12 | SA 1705 | 2.07 | MO 1914 | 2.05 | MO 1914 | 1.91 | WE 2007 | 1.89 | WE 2358 | 1.77 | | | | | | |
| 2255 | 1.47 | 2313 | 1.54 | 2300 | 1.77 | 2254 | 1.80 | WE 2244 | 1.80 | | | | | | |
| 4 0427 | 2.30 | 19 0436 | 2.43 | 4 1251 | 0.50 | 19 1337 | 0.31 | 4 1319 | 0.19 | 19 1354 | 0.41 | 4 1403 | 1.91 | 20 2032 | 1.87 | 4 2041 | 2.20 | 2324 | 1.75 | 5 0153 | 1.54 | 20 0206 | 1.51 | 5 0708 | 2.41 | 20 0712 | 2.11 | 5 1509 | 0.45 | TU 1440 | 0.93 | | | | | | | | |
| 1152 | 1.31 | 19 1221 | 0.72 | TU 1916 | 1.95 | WE 2007 | 1.89 | TH 2010 | 1.87 | TH 2003 | 1.90 | FR 2010 | 1.87 | FR 2024 | 1.99 | | | | | | |
| SA 1712 | 2.13 | SU 1814 | 2.06 | TH 2052 | 1.96 | FR 2118 | 1.87 | WE 2118 | 1.87 | | | | | | |
| 2325 | 1.54 | 2342 | 1.67 | 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | | | | | | |
| 5 0447 | 2.37 | 20 0506 | 2.47 | 5 1333 | 0.36 | 20 1416 | 0.33 | 5 1403 | 0.14 | 20 1427 | 0.49 | 5 1403 | 1.91 | 20 2032 | 1.87 | 5 2041 | 2.20 | 2324 | 1.75 | 6 0302 | 1.39 | 21 0255 | 1.41 | 6 0803 | 2.27 | 21 0746 | 2.01 | 6 0803 | 2.27 | 21 0746 | 2.01 | 7 0410 | 1.24 | 22 0346 | 1.30 | | | | |
| 1229 | 1.11 | 20 1309 | 0.55 | WE 2006 | 1.97 | TH 2041 | 1.89 | WE 2041 | 1.91 | | | | | | |
| SU 1801 | 2.13 | MO 1914 | 2.05 | MO 2358 | 1.77 | WE 2358 | 1.77 | | | | | | |
| ● 2354 | 1.61 | 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | WE 2358 | 1.77 | | | | | | |
| 6 0513 | 2.44 | 21 0535 | 2.50 | 6 1416 | 0.29 | 21 1453 | 0.41 | 6 1448 | 0.18 | 21 1457 | 0.60 | 6 1448 | 1.91 | 21 1457 | 0.60 | 6 2041 | 2.20 | 2324 | 1.75 | 7 0302 | 1.39 | 21 0255 | 1.41 | 7 0803 | 2.27 | 21 0746 | 2.01 | 7 0803 | 2.27 | 21 0746 | 2.01 | 8 0410 | 1.24 | 22 0346 | 1.30 | | | | |
| 1307 | 0.92 | 21 1354 | 0.46 | TH 2052 | 1.96 | FR 2118 | 1.87 | WE 2118 | 1.87 | | | | | | |
| MO 1848 | 2.13 | TU 2006 | 2.02 | 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | WE 2358 | 1.82 | | | | | | |
| 7 0021 | 1.70 | 22 0001 | 1.83 | 7 1500 | 0.27 | 22 0655 | 2.25 | 7 1531 | 0.28 | 22 1528 | 0.52 | 7 1531 | 1.93 | 2200 | 1.85 | 7 2157 | 1.93 | 2119 | 1.88 | 7 0902 | 2.06 | 22 0825 | 1.89 | 7 0902 | 2.06 | 22 0825 | 1.89 | 7 1624 | 0.97 | TH 1507 | 1.24 | | | | | | | | |
| 0540 | 2.50 | 22 0604 | 2.49 | FR 2140 | 1.94 | SA 1528 | 0.52 | WE 1531 | 0.28 | MO 1524 | 0.72 | WE 1531 | 1.93 | 2119 | 1.88 | 2218 | 2.16 | 2107 | 2.13 | 7 1624 | 0.97 | TH 1507 | 1.24 | 8 0520 | 1.09 | 23 0439 | 1.19 | 8 1009 | 1.83 | 23 0917 | 1.75 | 8 1009 | 1.83 | 23 0917 | 1.75 | 9 0417 | 1.56 | 24 0418 | 1.56 |
| TU 1347 | 0.75 | WE 1436 | 0.44 | 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | WE 2358 | 1.93 | | | | | | |
| 1935 | 2.12 | 2055 | 1.99 | WE 2358 | 1.99 | | | | | | |
| 8 0043 | 1.78 | 23 0011 | 1.86 | 8 0658 | 2.44 | 23 0740 | 2.16 | 8 0804 | 2.32 | 23 0804 | 2.02 | 8 1615 | 0.46 | TU 1546 | 0.87 | 8 2245 | 1.96 | 2148 | 1.90 | 8 1009 | 2.32 | 23 0917 | 1.75 | 8 1009 | 2.32 | 23 0917 | 1.75 | 9 0417 | 1.56 | 24 0418 | 1.56 | | | | | | | | |
| 0608 | 2.53 | 23 0635 | 2.45 | WE 1427 | 0.64 | TH 1516 | 0.50 | WE 1511 | 0.33 | SU 1559 | 0.65 | WE 1630 | 0.79 | WE 1630 | 1.94 | | | | |
| 2024 | 2.10 | 2146 | 1.95 | WE 1511 | 0.33 | MO 1555 | 0.60 | MO 1555 | 1.92 | WE 1555 | 1.92 | | | | | | |
| 9 0050 | 1.85 | 24 0026 | 1.87 | 9 0755 | 2.37 | 24 0827 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AUSTRALIA, GULF OF CARPENTARIA – WEIPA (HUMBUG POINT)

2019

LAT 12° 40' S LONG 141° 52' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|--|------------------------------|--|------------------------------|--|---------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|--|------------------------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0516 1320 SU 1856 | 2.49 0.46 2.10 | 16 0051 0556 MO 1312 1836 | 1.52 2.16 1.01 2.14 | 1 0103 0614 TU 1323 1836 | 1.11 2.32 1.09 2.44 | 16 0116 0630 WE 1231 1801 | 1.13 2.06 1.51 2.46 | 1 0236 0908 FR 1228 1846 | 0.52 2.08 1.97 2.73 | 16 0214 0856 SA 1134 1757 | 0.68 2.12 2.06 2.78 | 1 0303 1836 SU | 0.58 2.81 | 16 0243 1812 MO | 0.63 2.97 |
| 2 0059 0612 MO 1400 1926 | 1.44 2.45 0.61 2.18 | 17 0125 0629 TU 1332 1855 | 1.39 2.12 1.12 2.21 | 2 0156 0711 WE 1356 1910 | 0.88 2.21 1.33 2.51 | 17 0150 0709 TH 1245 1822 | 0.97 2.03 1.63 2.51 | 2 0322 1057 SA 1206 1911 | 0.52 2.05 2.04 2.67 | 17 0254 1821 SU | 0.63 2.77 | 2 0345 1914 MO | 0.70 2.69 | 17 0326 1124 TU 1200 1903 | 0.67 2.37 2.37 2.91 |
| 3 0200 0706 TU 1437 2001 | 1.23 2.34 0.82 2.26 | 18 0202 0702 WE 1349 1917 | 1.25 2.06 1.25 2.27 | 3 0248 0812 TH 1419 1941 | 0.72 2.06 1.57 2.53 | 18 0227 0752 FR 1246 1843 | 0.85 1.99 1.74 2.54 | 3 0409 1940 SU | 0.60 2.57 | 18 0337 1853 MO | 0.63 2.73 | 3 0425 2000 TU | 0.86 2.55 | 18 0410 2003 WE | 0.77 2.78 |
| 4 0258 0802 WE 1511 2037 | 1.05 2.17 1.09 2.32 | 19 0241 0738 TH 1359 1939 | 1.12 1.98 1.39 2.31 | 4 0340 0929 FR 1401 2010 | 0.64 1.92 1.78 2.52 | 19 0307 0847 SA 1236 1903 | 0.76 1.95 1.84 2.55 | 4 0455 2014 MO | 0.73 2.44 | 19 0423 1939 TU | 0.69 2.65 | 4 0503 1537 WE | 1.02 2.49 | 19 0456 1301 TH 1722 2114 | 0.92 2.50 2.35 2.61 |
| 5 0357 0902 TH 1536 2113 | 0.91 1.96 1.37 2.34 | 20 0324 0821 FR 1352 2001 | 1.01 1.89 1.54 2.34 | 5 0432 2037 SA | 0.64 2.46 | 20 0350 1117 SU 1223 1923 | 0.72 1.92 1.91 2.54 | 5 0542 1635 TU 1958 2100 | 0.87 2.38 2.29 2.29 | 20 0513 2047 WE | 0.77 2.52 | 5 0539 1519 TH 2222 | 1.18 2.51 2.20 | 20 0541 1332 FR 2242 | 1.12 2.60 2.14 |
| 6 0456 1025 FR 1524 2147 | 0.82 1.76 1.62 2.34 | 21 0410 0919 SA 1330 2022 | 0.92 1.80 1.66 2.35 | 6 0526 2107 SU | 0.70 2.37 | 21 0437 1952 MO | 0.71 2.51 | 6 0632 1623 WE | 1.01 2.39 | 21 0606 1505 TH 1913 2222 | 0.89 2.40 2.25 2.37 | 6 0612 1519 FR | 1.34 2.54 | 21 0626 1400 SA 2002 | 1.35 2.70 1.87 |
| 7 0558 2220 | 0.78 2.30 | 22 0501 2046 | 0.85 2.36 | 7 0623 2145 MO | 0.78 2.26 | 22 0530 2040 | 0.73 2.45 | 7 0723 1621 TU | 1.14 2.40 1.97 | 22 0704 1503 FR 2022 | 1.04 2.47 2.01 | 7 0640 1522 SA 2147 | 1.49 2.57 1.82 | 22 0031 0703 SU 1422 2107 | 2.23 1.60 2.80 1.58 |
| 8 0703 2255 | 0.76 2.25 | 23 0556 2121 | 0.80 2.36 | 8 0725 1729 TU | 0.86 2.23 | 23 0629 2203 | 0.78 2.35 | 8 0052 0813 FR 2221 | 2.05 1.25 1.81 | 23 0034 0802 SA 2121 | 2.25 1.22 1.73 | 8 0136 0706 SU 2221 | 2.00 1.63 1.62 | 23 0213 0713 MO 2209 | 2.14 1.84 1.30 |
| 9 0812 | 0.75 | 24 0658 2222 | 0.76 2.34 | 9 0830 1717 WE 2208 | 0.93 2.23 2.00 | 24 0736 1616 TH 2022 | 0.83 2.25 2.12 | 9 0212 0857 SA 2254 | 2.02 1.36 1.64 | 24 0206 0855 SU 2218 | 2.19 1.41 1.43 | 9 0302 0732 MO 2254 | 2.00 1.77 1.41 | 24 0423 0725 TU 2304 | 2.14 2.03 1.05 |
| 10 0019 0919 TU 2032 2142 | 2.18 0.75 2.08 2.07 | 25 0810 2347 | 0.72 2.32 | 10 0130 0928 TH 1718 2243 | 2.09 0.99 2.23 1.88 | 25 0020 0846 FR 1613 2124 | 2.27 0.90 2.30 1.91 | 10 0317 0931 SU 1616 2324 | 2.02 1.48 2.44 1.46 | 25 0323 0939 MO 1545 2313 | 2.17 1.62 2.73 1.13 | 10 0426 0801 TU 1521 2329 | 2.04 1.90 2.76 | 25 0555 0752 WE 2354 | 2.20 2.16 3.02 |
| 11 0155 1014 WE 1810 2238 | 2.16 0.75 2.06 1.99 | 26 0924 1708 | 0.69 2.09 | 11 0239 1016 FR 1723 2314 | 2.08 1.05 2.23 1.75 | 26 0207 0946 SA 1617 2220 | 2.27 0.99 2.36 1.65 | 11 0417 0958 MO 1615 2356 | 2.03 1.59 2.51 1.28 | 26 0447 1009 TU 1611 | 2.16 1.82 2.82 | 11 0537 0830 WE 1540 | 2.10 2.02 2.84 | 26 1606 TH | 3.05 |
| 12 0257 1101 TH 1812 2313 | 2.16 0.76 2.05 1.89 | 27 0205 1025 FR 1715 2159 | 2.33 0.67 2.12 1.86 | 12 0336 1056 SA 1724 2345 | 2.09 1.12 2.22 1.61 | 27 0317 1038 SU 1625 2315 | 2.28 1.11 2.44 1.36 | 12 0514 1023 TU 1630 ○ | 2.05 1.70 2.59 ● | 27 0003 0614 WE 1018 1639 | 0.86 2.18 1.98 2.89 | 12 0005 0638 TH 0901 ○ | 1.01 2.17 2.13 2.91 | 27 0040 0806 FR 0908 1637 | 0.73 2.33 2.32 3.05 |
| 13 0351 1142 FR 1818 2345 | 2.17 0.79 2.05 1.78 | 28 0317 1118 SA 1719 2308 | 2.38 0.69 2.17 1.64 | 13 0425 1127 SU 1716 | 2.10 1.21 2.25 | 28 0421 1122 MO 1650 | 2.27 1.27 2.55 | 13 0028 0608 WE 1048 1649 | 1.09 2.07 1.80 2.66 | 28 0052 0730 TH 1030 1708 | 0.66 2.20 2.10 2.92 | 13 0043 0735 FR 0936 1628 | 0.84 2.24 2.21 2.96 | 28 0123 0848 SA 1952 1712 | 0.67 2.36 2.35 3.03 |
| 14 0438 1217 SA 1820 | 2.19 0.85 2.06 | 29 0418 1204 SU 1734 | 2.41 0.77 2.26 | 14 0014 0510 MO 1153 ○ | 1.45 2.10 1.30 2.31 | 29 0008 0525 TU 1200 1720 | 1.06 2.24 1.46 2.64 | 14 0101 0701 TH 1110 1711 | 0.92 2.09 1.90 2.72 | 29 0137 0840 FR 1049 1735 | 0.54 2.22 2.17 2.92 | 14 0122 0828 SA 1012 1657 | 0.72 2.29 2.26 2.99 | 29 0204 0828 SU 1657 | 0.69 2.99 |
| 15 0018 0520 SU 1247 1823 | 1.66 2.18 0.92 2.08 | 30 0007 0516 MO 1245 1803 | 1.37 2.39 0.90 2.35 | 15 0045 0551 TU 1213 1740 | 1.29 2.08 1.41 2.39 | 30 0059 0632 WE 1231 1751 | 0.80 2.19 1.65 2.71 | 15 0137 0756 FR 1123 1734 | 0.78 2.11 1.99 2.76 | 30 0221 1803 SA | 0.52 2.88 2.88 | 15 0202 1732 SU | 0.65 3.00 | 30 0243 1832 MO | 0.77 2.92 |
| | | | | 31 | 0149 0741 TH 1247 1819 | | 0.61 2.14 1.84 2.74 | | | | | 31 | 0320 1916 | | 0.90 2.81 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – KARUMBA

2019

LAT 17° 30' S LONG 140° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | | Time | m |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 1 | 0911 2300 | 1.66 3.21 | 16 | 0810 2132 | 1.65 3.36 |
| TU | | | WE | | |
| 2 | 0905 1920 | 1.49 3.32 | 17 | 0755 1827 | 1.52 3.56 |
| WE | | | TH | | |
| 3 | 0856 1845 | 1.33 3.73 | 18 | 0749 1818 | 1.34 3.91 |
| TH | | | FR | | |
| 4 | 0854 1906 | 1.22 4.05 | 19 | 0800 1839 | 1.11 4.24 |
| FR | | | SA | | |
| 5 | 0857 1937 | 1.13 4.25 | 20 | 0828 1917 | 0.89 4.51 |
| SA | | | SU | | |
| 6 | 0910 2012 | 1.05 4.34 | 21 | 0907 2004 | 0.71 4.70 |
| SU | | | MO | | |
| 7 | 0936 2047 | 1.01 4.33 | 22 | 0947 2054 | 0.60 4.77 |
| MO | | | TU | | |
| 8 | 1008 2123 | 1.01 4.28 | 23 | 1027 2142 | 0.59 4.74 |
| TU | | | WE | | |
| 9 | 1041 2154 | 1.04 4.20 | 24 | 1101 2225 | 0.69 4.59 |
| WE | | | TH | | |
| 10 | 1108 2216 | 1.12 4.11 | 25 | 1130 2300 | 0.93 4.33 |
| TH | | | FR | | |
| 11 | 1126 2233 | 1.26 4.03 | 26 | 1154 2320 | 1.28 3.99 |
| FR | | | SA | | |
| 12 | 1127 2247 | 1.43 3.92 | 27 | 1142 2326 | 1.72 3.63 |
| SA | | | SU | | |
| 13 | 1057 2256 | 1.62 3.78 | 28 | 0905 2304 | 1.98 3.32 |
| SU | | | MO | | |
| 14 | 1010 2244 | 1.75 3.61 | 29 | 0745 2150 | 1.82 3.18 |
| MO | | | TU | | |
| 15 | 0830 2218 | 1.74 3.46 | 30 | 0740 1656 | 1.60 3.38 |
| TU | | | WE | | |
| 31 | 0743 1708 | 1.41 3.76 | | | |
| TH | | | | | |

FEBRUARY

| | Time | m | | Time | m |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 1 | 0752 1742 | 1.27 4.04 | 16 | 0627 1652 | 1.21 4.15 |
| FR | | | SA | | |
| 2 | 0805 1824 | 1.18 4.22 | 17 | 0703 1746 | 0.97 4.39 |
| SA | | | SU | | |
| 3 | 0825 1907 | 1.13 4.29 | 18 | 0753 1846 | 0.79 4.54 |
| SU | | | MO | | |
| 4 | 0853 1949 | 1.11 4.28 | 19 | 0842 1945 | 0.69 4.59 |
| MO | | | TU | | |
| 5 | 0926 2030 | 1.12 4.22 | 20 | 0924 2039 | 0.70 4.53 |
| TU | | | WE | | |
| 6 | 0956 2105 | 1.18 4.12 | 21 | 1000 2127 | 0.85 4.35 |
| WE | | | TH | | |
| 7 | 1019 2131 | 1.28 4.01 | 22 | 1030 2205 | 1.12 4.05 |
| TH | | | FR | | |
| 8 | 1030 2146 | 1.44 3.88 | 23 | 1054 2230 | 1.51 3.68 |
| FR | | | SA | | |
| 9 | 1030 2156 | 1.62 3.75 | 24 | 1101 2237 | 1.97 3.28 |
| SA | | | SU | | |
| 10 | 1010 2202 | 1.84 3.58 | 25 | 0619 1445 | 2.17 2.60 |
| SU | | | MO | | |
| 11 | 0822 2149 | 2.01 3.39 | 26 | 0600 1422 | 1.95 3.02 |
| MO | | | TU | | |
| 12 | 0645 2110 | 1.93 3.23 | 27 | 0612 1420 | 1.72 3.42 |
| TU | | | WE | | |
| 13 | 0640 1618 | 1.82 3.18 | 28 | 0621 1453 | 1.53 3.73 |
| WE | | | TH | | |
| 14 | 0634 1603 | 1.67 3.51 | | | |
| TH | | | | | |
| 15 | 0626 1613 | 1.46 3.85 | | | |
| FR | | | | | |
| 31 | 0743 1708 | 1.41 3.76 | | | |
| TH | | | | | |

MARCH

| | Time | m | | Time | m |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 1 | 0628 1536 | 1.37 3.92 | 16 | 0357 1442 | 1.18 4.04 |
| FR | | | SA | | |
| 2 | 0640 1627 | 1.26 4.01 | 17 | 0454 1541 | 0.96 4.16 |
| SA | | | SU | | |
| 3 | 0709 1723 | 1.20 4.02 | 18 | 0603 1648 | 0.82 4.20 |
| SU | | | MO | | |
| 4 | 0747 1818 | 1.18 3.97 | 19 | 0709 1801 | 0.77 4.16 |
| MO | | | TU | | |
| 5 | 0826 1909 | 1.23 3.89 | 20 | 0802 1909 | 0.84 4.02 |
| TU | | | WE | | |
| 6 | 0859 1950 | 1.33 3.78 | 21 | 0845 2005 | 1.05 3.78 |
| WE | | | TH | | |
| 7 | 0923 2022 | 1.48 3.64 | 22 | 0919 2050 | 1.37 3.44 |
| TH | | | FR | | |
| 8 | 0925 2040 | 1.67 3.48 | 23 | 0949 2118 | 1.78 3.05 |
| FR | | | SA | | |
| 9 | 0914 2050 | 1.87 3.29 | 24 | 1014 1252 | 2.24 2.32 |
| SA | | | SU | | |
| 10 | 0823 2100 | 2.08 3.09 | 25 | 0403 1158 | 2.11 2.71 |
| SU | | | MO | | |
| 11 | 0504 1409 | 2.09 2.67 | 26 | 0419 1148 | 1.92 3.14 |
| MO | | | TU | | |
| 12 | 0508 1358 | 2.00 2.90 | 27 | 0433 1224 | 1.74 3.48 |
| TU | | | WE | | |
| 13 | 0510 1324 | 1.91 3.19 | 28 | 0235 1304 | 1.54 3.71 |
| WE | | | TH | | |
| 14 | 0450 1323 | 1.75 3.52 | 29 | 0319 1346 | 1.35 3.82 |
| TH | | | FR | | |
| 15 | 0316 1354 | 1.46 3.81 | 30 | 0414 1430 | 1.23 3.83 |
| FR | | | SA | | |
| 31 | 0512 1517 | 1.17 3.75 | | | |
| SA | | | | | |

APRIL

| | Time | m | | Time | m |
|-----------|--------------|--------------|-----------|--------------|--------------|
| 1 | 0609 1606 | 1.18 3.63 | 16 | 0525 1554 | 0.72 3.76 |
| MO | | | TU | | |
| 2 | 0659 1653 | 1.25 3.48 | 17 | 0626 1654 | 0.88 3.51 |
| TU | | | WE | | |
| 3 | 0739 1735 | 1.40 3.32 | 18 | 0715 1752 | 1.17 3.17 |
| WE | | | TH | | |
| 4 | 0803 1808 | 1.61 3.14 | 19 | 0755 1838 | 1.56 2.78 |
| TH | | | FR | | |
| 5 | 0718 1835 | 1.84 2.95 | 20 | 0346 0655 | 1.95 2.01 |
| FR | | | SA | | |
| 6 | 0418 1900 | 1.97 2.73 | 21 | 0155 0923 | 1.91 2.46 |
| SA | | | SU | | |
| 7 | 0315 1210 | 1.95 2.52 | 22 | 0159 0943 | 1.80 2.87 |
| SU | | | MO | | |
| 8 | 0321 1200 | 1.91 2.74 | 23 | 1019 2335 | 3.22 1.32 |
| MO | | | TU | | |
| 9 | 0329 1134 | 1.88 2.98 | 24 | 1059 1340 | 3.48 3.56 |
| TU | | | WE | | |
| 10 | 0011 1125 | 1.70 3.26 | 25 | 0018 1140 | 1.15 3.63 |
| WE | | | TH | | |
| 11 | 0034 1145 | 1.42 3.54 | 26 | 0108 1221 | 1.05 3.69 |
| TH | | | FR | | |
| 12 | 0114 1222 | 1.16 3.77 | 27 | 0205 1301 | 1.00 3.66 |
| FR | | | SA | | |
| 13 | 0207 1307 | 0.93 3.93 | 28 | 0306 1340 | 0.99 3.56 |
| SA | | | SU | | |
| 14 | 0310 1359 | 0.77 3.98 | 29 | 0405 1416 | 1.04 3.41 |
| SU | | | MO | | |
| 15 | 0417 1455 | 0.69 3.92 | 30 | 0457 1448 | 1.15 3.23 |
| MO | | | TU | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – KARUMBA

2019

LAT 17° 30' S LONG 140° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|--|----------------------|---------------------------------|--------------|---|----------------------|---|----------------------|---------------------------------|--------------|---------------------------------|--------------|---------------------------------|--------------|---------------------------------|--------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 WE 0523 1516 | 1.34 3.04 | 16 TH 0538 1533 | 1.18 2.81 | 1 SA 0910 1215 2253 | 2.33 2.31 1.15 | 16 SU 0703 2150 | 2.69 0.87 | 1 MO 0702 2055 | 2.91 0.65 | 16 TU 0707 2115 | 3.25 0.56 | 1 TH 0742 2137 | 3.61 0.12 | 16 FR 0817 2155 | 3.19 0.70 |
| 2 TH 0318 1543 | 1.54 2.83 | 17 FR 0135 2355 | 1.52 1.48 | 2 SU 0822 2200 | 2.60 1.07 | 17 MO 0740 2138 | 3.03 0.75 | 2 TU 0728 2117 | 3.17 0.48 | 17 WE 0754 2139 | 3.32 0.52 | 2 FR 0839 2220 | 3.72 0.06 | 17 SA 0902 2226 | 3.10 0.82 |
| 3 FR 0155 1605 | 1.62 2.59 | 18 SA 0957 2356 | 2.17 1.40 | 3 MO 0826 2146 | 2.87 0.92 | 18 TU 0817 2145 | 3.25 0.64 | 3 WE 0806 2152 | 3.40 0.31 | 18 TH 0842 2212 | 3.33 0.51 | 3 SA 0933 2300 | 3.74 0.12 | 18 SU 0940 2249 | 2.97 1.00 |
| 4 SA 0100 1201 1415 | 1.60 2.33 2.35 | 19 SU 0815 2227 | 2.60 1.28 | 4 TU 0842 2201 | 3.12 0.74 | 19 WE 0858 2215 | 3.35 0.56 | 4 TH 0853 2232 | 3.57 0.17 | 19 FR 0927 2248 | 3.28 0.52 | 4 SU 1024 2335 | 3.66 0.31 | 19 MO 1006 2254 | 2.82 1.23 |
| 5 SU 0052 1001 | 1.56 2.57 | 20 MO 0843 2202 | 2.97 1.06 | 5 WE 0912 2229 | 3.34 0.56 | 20 TH 0939 2254 | 3.38 0.52 | 5 FR 0945 2315 | 3.69 0.08 | 20 SA 1007 2323 | 3.21 0.59 | 5 MO 1108 2144 | 3.44 1.48 | 20 TU 1019 2144 | 2.64 |
| 6 MO 0050 0954 2237 | 1.54 2.82 1.39 | 21 TU 0916 2223 | 3.24 0.88 | 6 TH 0952 2307 | 3.51 0.40 | 21 FR 1021 2337 | 3.36 0.52 | 6 SA 1034 2358 | 3.74 0.08 | 21 SU 1041 2353 | 3.11 0.72 | 6 TU 0008 1140 | 0.65 3.11 | 21 WE 0244 0400 | 1.67 1.65 |
| 7 TU 0956 2245 | 3.06 1.18 | 22 WE 0954 2300 | 3.41 0.76 | 7 FR 1037 2355 | 3.65 0.28 | 22 SA 1100 2354 | 3.30 | 7 SU 1120 2019 | 3.69 1.44 | 22 MO 1104 2022 | 2.99 | 7 WE 0035 1156 | 1.09 2.71 | 22 TH 0235 0504 | 1.93 1.84 |
| 8 WE 1014 2311 | 3.29 0.96 | 23 TH 1034 2345 | 3.49 0.71 | 8 SA 1122 2345 | 3.71 0.28 | 23 SU 0021 1132 | 0.57 3.23 | 8 MO 0039 1159 | 0.20 3.53 | 23 TU 0008 2300 | 0.93 1.16 | 8 TH 0256 1153 | 1.61 2.32 | 23 FR 0221 0900 | 2.23 2.06 |
| 9 TH 1045 2350 | 3.51 0.76 | 24 FR 1115 | 3.51 | 9 SU 0048 1205 | 0.23 3.70 | 24 MO 0100 1157 | 0.68 3.12 | 9 TU 0119 1228 | 0.45 3.24 | 24 WE 1125 2112 | 2.68 1.27 | 9 FR 0233 1100 | 2.10 2.02 | 24 SA 0215 1913 | 2.54 1.03 |
| 10 FR 1123 | 3.68 | 25 SA 0037 1153 | 0.70 3.46 | 10 MO 0143 1244 | 0.27 3.57 | 25 TU 0123 1215 | 0.86 2.99 | 10 WE 0152 2259 | 0.83 1.22 | 25 TH 1126 1945 | 2.47 1.17 | 10 SA 0306 1920 | 2.55 0.85 | 25 SU 0232 1701 | 2.84 0.95 |
| 11 SA 0045 1206 | 0.60 3.78 | 26 SU 0130 1228 | 0.74 3.38 | 11 TU 0236 1316 | 0.44 3.34 | 26 WE 0000 2300 | 1.05 1.14 | 11 TH 1243 2055 | 2.51 1.15 | 26 FR 0452 1040 | 2.02 2.28 | 11 SU 0350 1931 | 2.89 0.72 | 26 MO 0305 1657 | 3.11 0.73 |
| 12 SU 0148 1251 | 0.49 3.81 | 27 MO 0220 1257 | 0.82 3.26 | 12 WE 0325 1340 | 0.76 3.01 | 27 TH 1230 2136 | 2.61 1.11 | 12 FR 0430 0534 | 1.84 1.84 | 27 SA 0441 1937 | 2.35 0.94 | 12 MO 0440 1950 | 3.12 0.65 | 27 TU 0352 1745 | 3.33 0.54 |
| 13 MO 0254 1336 | 0.46 3.71 | 28 TU 0256 1319 | 0.97 3.10 | 13 TH 0133 1347 2225 | 1.17 2.64 1.23 | 28 FR 1152 2125 | 2.40 1.01 | 13 SA 0454 2048 | 2.34 0.80 | 28 SU 0453 1931 | 2.67 0.79 | 13 TU 0534 2015 | 3.24 0.62 | 28 WE 0452 1900 | 3.49 0.39 |
| 14 TU 0357 1420 | 0.56 3.51 | 29 WE 0142 1337 | 1.16 2.91 | 14 FR 1323 2222 | 2.30 1.09 | 29 SA 0707 1102 2111 | 2.31 2.27 0.92 | 14 SU 0536 2050 | 2.76 0.68 | 29 MO 0518 1940 | 2.97 0.62 | 14 WE 0630 2045 | 3.27 0.62 | 29 TH 0602 2011 | 3.60 0.29 |
| 15 WE 0454 1500 | 0.81 3.20 | 30 TH 0031 2328 | 1.26 1.27 | 15 SA 0635 2220 | 2.23 0.98 | 30 SU 0650 2052 | 2.62 0.81 | 15 MO 0621 2100 | 3.06 0.60 | 30 TU 0556 2008 | 3.23 0.43 | 15 TH 0727 2120 | 3.25 0.64 | 30 FR 0714 2104 | 3.65 0.28 |
| | | 31 FR 1328 2257 | 2.47 1.20 | | | | | | | 31 WE 0645 2051 | 3.45 0.26 | | | 31 SA 0817 2148 | 3.61 0.39 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – KARUMBA

2019

LAT 17° 30' S LONG 140° 50' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | | | |
|-----------|------|------|-----------|---------|------|-----------|------|----------|-----------|------|------|-----------|------|------|-----------|------|------|
| | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | |
| 1 | 0914 | 3.46 | 16 | 0835 | 2.57 | 1 | 0914 | 2.39 | 16 | 1112 | 1.68 | 1 | 1048 | 1.05 | 16 | 1035 | 0.93 |
| SU | 2227 | 0.65 | MO | 2044 | 1.71 | TU | 1509 | 1.93 | WE | 1223 | 1.69 | FR | 2215 | 3.76 | SA | 2200 | 3.98 |
| | * | | | | | | 2007 | 2.15 | | 1346 | 1.67 | | | | | | |
| 2 | 1004 | 3.19 | 17 | 0050 | 1.82 | 2 | 0357 | 1.73 | 17 | 1101 | 1.49 | 2 | 1129 | 0.94 | 17 | 1106 | 0.79 |
| MO | 2302 | 1.04 | TU | 0244 | 1.78 | WE | 1507 | 1.78 | TH | 2215 | 3.11 | SA | 2257 | 3.87 | SU | 2236 | 4.10 |
| | | | | | | | 2144 | 2.60 | | | | | | | MO | | |
| 3 | 1045 | 2.82 | 18 | 0039 | 2.06 | 3 | 1137 | 1.60 | 18 | 1112 | 1.29 | 3 | 1215 | 0.91 | 18 | 1150 | 0.67 |
| TU | 1713 | 2.86 | WE | 0355 | 1.86 | TH | 1337 | 1.64 | FR | 2230 | 3.35 | SU | 2340 | 3.87 | MO | 2316 | 4.17 |
| * | | | | | | | 1519 | 1.61 | | | | | | | TU | | |
| 4 | 0347 | 1.45 | 19 | 0015 | 2.32 | 4 | 1223 | 1.31 | 19 | 1134 | 1.09 | 4 | 1308 | 0.94 | 19 | 1244 | 0.61 |
| WE | 1102 | 2.40 | TH | 1621 | 1.57 | FR | 2333 | 3.32 | SA | 2257 | 3.56 | MO | 0000 | | TU | 1312 | 0.86 |
| WE | 1713 | 1.67 | TH | 2355 | 2.60 | | | | | | | | | | WE | TH | |
| * | 2311 | 2.03 | * | | | 5 | 1314 | 1.11 | 20 | 1211 | 0.90 | 5 | 0022 | 3.80 | 20 | 0000 | 4.17 |
| | | | | | | SA | | SU | | | SA | 1405 | 1.02 | WE | 1340 | 0.64 | |
| 6 | 0027 | 2.50 | 21 | 0000 | 2.89 | 6 | 0019 | 3.50 | 21 | 1301 | 0.75 | 6 | 0101 | 3.66 | 21 | 0042 | 4.07 |
| FR | 1736 | 1.24 | SA | 1332 | 1.24 | SU | 1409 | 1.00 | MO | | | WE | 1457 | 1.14 | TH | 1433 | 0.79 |
| | | | | | | 7 | 0105 | 3.56 | 22 | 0016 | 3.85 | 7 | 0135 | 3.48 | 22 | 0121 | 3.86 |
| 7 | 0114 | 2.89 | 22 | 0024 | 3.17 | MO | 1507 | 0.95 | TU | 1401 | 0.64 | TH | 1525 | 1.33 | FR | 1510 | 1.09 |
| SA | 1744 | 1.06 | SU | 1401 | 0.99 | | | | | | | | | | SA | 2336 | 3.16 |
| | | | | | | 8 | 0152 | 3.51 | 23 | 0107 | 3.87 | 8 | 0202 | 3.27 | 23 | 0152 | 3.54 |
| 8 | 0159 | 3.15 | 23 | 0100 | 3.39 | SU | 1608 | 0.97 | WE | 1507 | 0.61 | FR | 1423 | 1.54 | SA | 1443 | 1.50 |
| SU | 1736 | 0.92 | MO | 1445 | 0.77 | | | | | | | | | | MO | 2327 | 3.13 |
| | | | | | | 9 | 0239 | 3.39 | 24 | 0202 | 3.80 | 9 | 0219 | 3.05 | 24 | 0206 | 3.15 |
| 9 | 0246 | 3.29 | 24 | 0149 | 3.55 | MO | 1709 | 1.04 | TH | 1609 | 0.68 | SU | 1306 | 1.70 | MO | 1110 | 1.73 |
| MO | 1747 | 0.83 | TU | 1540 | 0.61 | | | | | | | | | | MO | 2023 | 3.28 |
| | | | | | | 10 | 0327 | 3.23 | 25 | 0300 | 3.64 | 10 | 0222 | 2.83 | 25 | 0126 | 2.78 |
| 10 | 0338 | 3.31 | 25 | 0247 | 3.63 | TH | 1807 | 1.17 | FR | 1706 | 0.90 | SU | 1130 | 1.68 | MO | 1057 | 1.65 |
| TU | 1830 | 0.80 | WE | 1645 | 0.52 | | | | | | | | | | MO | 2112 | 2.80 |
| | | | | | | 11 | 0412 | 3.04 | 26 | 0357 | 3.36 | 11 | 0053 | 2.66 | 26 | 1024 | 1.52 |
| 11 | 0434 | 3.26 | 26 | 0354 | 3.63 | FR | 1856 | 1.37 | SA | 1755 | 1.25 | MO | 1124 | 1.58 | WE | 1952 | 3.29 |
| WE | 1919 | 0.82 | TH | 1800 | 0.52 | | | | | | | | | | WE | 1955 | 4.30 |
| | | | | | | 12 | 0451 | 2.84 | 27 | 0448 | 2.99 | 12 | 1100 | 1.51 | 27 | 0937 | 1.29 |
| 12 | 0536 | 3.16 | 27 | 0506 | 3.56 | TH | 1733 | 1.64 | SU | 1738 | 1.71 | TU | 2058 | 3.16 | WE | 2014 | 3.71 |
| TH | 2005 | 0.89 | FR | 1912 | 0.61 | | | | | | | | | | WE | 2031 | 4.41 |
| | | | | | | 13 | 0520 | 2.63 | 28 | 0528 | 2.55 | 13 | 1000 | 1.38 | 28 | 0935 | 1.07 |
| 13 | 0636 | 3.05 | 28 | 0622 | 3.40 | FR | 1459 | 1.80 | MO | 1246 | 1.87 | WE | 2104 | 3.41 | TH | 2044 | 4.00 |
| FR | 2047 | 1.01 | SA | 2012 | 0.83 | | | | | | | | | | WE | 2111 | 4.42 |
| | | | | | | 14 | 0542 | 2.41 | 29 | 0338 | 2.11 | 14 | 1000 | 1.23 | 29 | 0956 | 0.91 |
| 14 | 0728 | 2.92 | 29 | 0730 | 3.15 | SA | 1337 | 1.76 | MO | 0532 | 2.13 | TH | 2113 | 3.63 | FR | 2119 | 4.15 |
| SA | 2123 | 1.20 | SU | 2104 | 1.17 | | | | | | | | | | SA | 2150 | 4.37 |
| | | | | | | 15 | 0257 | 2.13 | 30 | 1005 | 1.57 | 15 | 1014 | 1.08 | 30 | 1030 | 0.84 |
| 15 | 0809 | 2.76 | 30 | 0828 | 2.80 | MO | 0554 | 2.19 | WE | 2055 | 3.19 | FR | 2131 | 3.82 | SA | 2158 | 4.20 |
| SU | 2146 | 1.44 | MO | 2200 | 1.60 | | | | | | | | | | MO | 2227 | 4.27 |
| | | | | | | 31 | 1015 | 1.26 | | | | | | | | | |
| | | | | | | TH | 2133 | 3.54 | | | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

2019

LAT 16° 40' S LONG 139° 10' E

Times and Heights of High and Low Waters

Time Zone –1000

JANUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 1259 | 2.21 | 16 | 1103 | 2.24 |
| TU | 2117 | 3.03 | WE | 2020 | 3.11 |
| | | | | | |
| 2 | 0617 | 2.03 | 17 | 0600 | 2.13 |
| WE | 2057 | 3.14 | TH | 2003 | 3.20 |
| | | | | | |
| 3 | 0647 | 1.75 | 18 | 0559 | 1.87 |
| TH | 2043 | 3.27 | FR | 1947 | 3.35 |
| | | | | | |
| 4 | 0723 | 1.54 | 19 | 0632 | 1.64 |
| FR | 2049 | 3.40 | SA | 1959 | 3.50 |
| | | | | | |
| 5 | 0802 | 1.40 | 20 | 0718 | 1.44 |
| SA | 2119 | 3.48 | SU | 2036 | 3.64 |
| | | | | | |
| 6 | 0840 | 1.33 | 21 | 0809 | 1.30 |
| SU | 2159 | 3.51 | MO | 2128 | 3.73 |
| ● | | | ○ | | |
| 7 | 0918 | 1.32 | 22 | 0900 | 1.21 |
| MO | 2241 | 3.51 | TU | 2228 | 3.77 |
| | | | | | |
| 8 | 0954 | 1.33 | 23 | 0950 | 1.18 |
| TU | 2320 | 3.48 | WE | 2326 | 3.75 |
| | | | | | |
| 9 | 1030 | 1.37 | 24 | 1035 | 1.23 |
| WE | 2354 | 3.44 | TH | | |
| | | | | | |
| 10 | 1104 | 1.42 | 25 | 0020 | 3.66 |
| TH | | | FR | 1115 | 1.36 |
| | | | 2003 | 3.18 | |
| | | | 2109 | 3.17 | |
| | | | | | |
| 11 | 0024 | 3.37 | 26 | 0109 | 3.47 |
| FR | 1134 | 1.49 | SA | 1145 | 1.56 |
| | | | 2003 | 3.08 | |
| | | | 2230 | 3.01 | |
| | | | | | |
| 12 | 0049 | 3.27 | 27 | 0152 | 3.19 |
| SA | 1158 | 1.60 | SU | 1207 | 1.82 |
| 2029 | 3.10 | 2008 | 3.02 | | |
| 2226 | 3.07 | | | | |
| | | | | | |
| 13 | 0108 | 3.14 | 28 | 1218 | 2.09 |
| SU | 1216 | 1.73 | MO | 2005 | 3.01 |
| 2040 | 3.07 | ○ | | | |
| | | | | | |
| 14 | 1226 | 1.89 | 29 | 0439 | 2.47 |
| MO | 2040 | 3.05 | TU | 0702 | 2.49 |
| ○ | | | 1210 | 2.33 | |
| | | | 1943 | 3.08 | |
| | | | | | |
| 15 | 1219 | 2.07 | 30 | 0451 | 2.13 |
| TU | 2031 | 3.06 | WE | 1928 | 3.21 |
| | | | | | |
| 31 | 0529 | 1.85 | TH | 1919 | 3.35 |
| | | | | | |

FEBRUARY

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0610 | 1.65 | 16 | 0501 | 1.72 |
| FR | 1929 | 3.46 | SA | 1834 | 3.46 |
| | | | | | |
| 2 | 0652 | 1.53 | 17 | 0553 | 1.54 |
| SA | 1958 | 3.52 | SU | 1912 | 3.58 |
| | | | | | |
| 3 | 0735 | 1.47 | 18 | 0650 | 1.42 |
| SU | 2042 | 3.53 | MO | 2009 | 3.64 |
| | | | | | |
| 4 | 0816 | 1.46 | 19 | 0747 | 1.34 |
| MO | 2135 | 3.51 | TU | 2119 | 3.66 |
| | | | | | |
| 5 | 0855 | 1.48 | 20 | 0841 | 1.33 |
| TU | 2226 | 3.48 | WE | 2232 | 3.63 |
| ● | | | ○ | | |
| 6 | 0933 | 1.51 | 21 | 0930 | 1.39 |
| WE | 2310 | 3.44 | TH | 2340 | 3.54 |
| | | | | | |
| 7 | 1006 | 1.56 | 22 | 1009 | 1.52 |
| TH | 2348 | 3.37 | FR | | |
| | | | | | |
| 8 | 1035 | 1.64 | 23 | 0042 | 3.37 |
| FR | | | SA | 1843 | 2.91 |
| | | | 2133 | 2.79 | |
| | | | | | |
| 9 | 0020 | 3.28 | 24 | 0145 | 3.11 |
| SA | 1058 | 1.75 | SU | 1056 | 1.97 |
| 1913 | 3.02 | 2053 | 1844 | 2.84 | |
| 2131 | 2.97 | | 2242 | 2.57 | |
| | | | | | |
| 10 | 0050 | 3.14 | 25 | 0332 | 2.80 |
| SU | 1113 | 1.88 | MO | 1110 | 2.22 |
| 1923 | 2.98 | 1824 | 1824 | 2.84 | |
| 2237 | 2.86 | | | | |
| | | | | | |
| 11 | 0117 | 2.96 | 26 | 0005 | 2.35 |
| MO | 1122 | 2.03 | TU | 0715 | 2.62 |
| 1919 | 2.96 | 1117 | 1117 | 2.45 | |
| 2354 | 2.71 | ○ | 1750 | 2.95 | |
| | | | | | |
| 12 | 0138 | 2.73 | 27 | 0234 | 2.09 |
| TU | 1126 | 2.19 | WE | 1739 | 3.10 |
| 1859 | 2.97 | | | | |
| | | | | | |
| 13 | 1113 | 2.37 | 28 | 0341 | 1.84 |
| WE | 1840 | 3.04 | TH | 1736 | 3.24 |
| ○ | | | | | |
| 14 | 0352 | 2.20 | | | |
| TH | 1824 | 3.16 | | | |
| | | | | | |
| 15 | 0419 | 1.95 | | | |
| FR | 1817 | 3.31 | | | |
| | | | | | |
| 31 | 0529 | 1.85 | | | |
| TH | 1919 | 3.35 | | | |
| | | | | | |

MARCH

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0430 | 1.66 | 16 | 0315 | 1.61 |
| FR | 1752 | 3.33 | SA | 1648 | 3.28 |
| | | | | | |
| 2 | 0517 | 1.57 | 17 | 0412 | 1.47 |
| SA | 1823 | 3.37 | SU | 1735 | 3.36 |
| | | | | | |
| 3 | 0602 | 1.54 | 18 | 0510 | 1.39 |
| SU | 1905 | 3.35 | MO | 1837 | 3.38 |
| | | | | | |
| 4 | 0648 | 1.54 | 19 | 0612 | 1.37 |
| MO | 2001 | 3.31 | TU | 1951 | 3.35 |
| | | | | | |
| 5 | 0733 | 1.57 | 20 | 0711 | 1.40 |
| TU | 2105 | 3.25 | WE | 2119 | 3.27 |
| | | | | | |
| 6 | 0815 | 1.61 | 21 | 0805 | 1.50 |
| WE | 2207 | 3.19 | TH | 1711 | 2.92 |
| | | | 1844 | 2.90 | |
| | | | 2255 | 3.16 | |
| | | | | | |
| 7 | 0853 | 1.67 | 22 | 0847 | 1.66 |
| TH | 2259 | 3.12 | FR | 1708 | 2.76 |
| | | | 1948 | 2.66 | |
| ● | | | | | |
| 8 | 0926 | 1.76 | 23 | 0018 | 3.01 |
| FR | 2006 | 2.83 | SA | 1708 | 2.63 |
| 2344 | 3.02 | 2046 | 2046 | 2.39 | |
| | | | | | |
| 9 | 0949 | 1.87 | 24 | 0155 | 2.81 |
| SA | 1750 | 2.81 | SU | 1938 | 2.10 |
| 2053 | 2.69 | 2144 | 2144 | 2.14 | |
| | | | | | |
| 10 | 0027 | 2.89 | 25 | 0440 | 2.67 |
| SU | 1003 | 2.00 | MO | 0957 | 2.32 |
| 1751 | 2.75 | 1543 | 1543 | 2.63 | |
| 2143 | 2.54 | 2246 | 2246 | 1.93 | |
| | | | | | |
| 11 | 0117 | 2.72 | 26 | 0652 | 2.66 |
| MO | 1014 | 2.15 | TU | 1013 | 2.51 |
| 1721 | 2.72 | 1458 | 1458 | 2.78 | |
| 2235 | 2.37 | 2358 | 2358 | 1.74 | |
| | | | | | |
| 12 | 0403 | 2.54 | 27 | 0829 | 2.68 |
| TU | 1025 | 2.30 | WE | 1018 | 2.66 |
| 1655 | 2.75 | 1446 | 1446 | 2.95 | |
| 2336 | 2.19 | | | | |
| | | | | | |
| 13 | 0736 | 2.54 | 28 | 0121 | 1.59 |
| WE | 1035 | 2.46 | TH | 1511 | 3.06 |
| 1632 | 2.85 | ○ | | | |
| | | | | | |
| 14 | 0050 | 2.00 | 29 | 0229 | 1.48 |
| TH | 1604 | 3.00 | FR | 1543 | 3.11 |
| ○ | | | | | |
| 15 | 0213 | 1.79 | 30 | 0322 | 1.42 |
| FR | 1614 | 3.15 | SA | 1616 | 3.11 |
| | | | | | |
| 31 | 0409 | 1.42 | SU | 1647 | 3.07 |
| TH | 1647 | 3.07 | | | |
| | | | | | |

APRIL

| | Time | m | | Time | m |
|-----------|------|------|-----------|------|------|
| 1 | 0456 | 1.46 | 16 | 0428 | 1.23 |
| MO | 1703 | 3.00 | TU | 1814 | 2.96 |
| | | | | | |
| 2 | 0543 | 1.52 | 17 | 0524 | 1.33 |
| TU | | | WE | | |
| | | | | | |
| 3 | 0631 | 1.59 | 18 | 0618 | 1.49 |
| WE | 1629 | 2.81 | TH | 1516 | 2.61 |
| | | | 1814 | 2.51 | |
| | | | 2204 | 2.64 | |
| | | | | | |
| 4 | 0715 | 1.68 | 19 | 0705 | 1.70 |
| TH | 1608 | 2.71 | FR | 1507 | 2.47 |
| 1911 | 2.63 | 2141 | 2.67 | | |
| | | | | | |
| 5 | 0754 | 1.79 | 20 | 0006 | 2.51 |
| FR | 1602 | 2.62 | SA | 1428 | 2.37 |
| 1944 | 2.46 | 2137 | 2.56 | | |
| | | | | | |
| 6 | 0823 | 1.92 | 21 | 0244 | 2.45 |
| SA | 1545 | 2.53 | SU | 1325 | 2.40 |
| 2020 | 2.28 | 2057 | 1.66 | | |
| | | | | | |
| 7 | 0114 | 2.46 | 22 | 0509 | 2.52 |
| SU | 1507 | 2.49 | MO | 1231 | 2.55 |
| 2100 | 2.09 | 2151 | 1.44 | | |
| | | | | | |
| 8 | 0442 | 2.43 | 23 | 0625 | 2.60 |
| MO | 0900 | 2.22 | SA | 0903 | 2.51 |
| 1441 | 2.51 | 1233 | 2.73 | | |
| 2143 | 1.90 | | 2248 | 1.28 | |
| | | | | | |
| 9 | 0612 | 2.50 | 24 | 0731 | 2.64 |
| TU | 0919 | 2.36 | WE | 0923 | 2.61 |
| 1346 | 2.60 | 2230 | 1.72 | | |
| 2347 | 1.28 | | | | |
| | | | | | |
| 10 | 0711 | | | | |

AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

2019

LAT 16° 40' S LONG 139° 10' E

Times and Heights of High and Low Waters

Time Zone –1000

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|---|--------------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0433 1420 | 1.41 2.55 | 16 1246 TH 1740 2108 | 1.38 2.35 2.12 2.17 | 1 0124 0417 SA 1101 1921 | 1.79 1.77 2.25 1.51 | 16 0926 1937 SU | 2.36 0.96 | 1 0826 1914 MO | 2.39 0.92 | 16 0833 2015 TU | 2.60 0.65 | 1 0848 2036 TH | 2.74 0.55 | 16 1012 2114 FR | 2.55 0.83 |
| 2 0516 1356 | 1.55 2.46 | 17 1233 FR 1835 | 1.65 2.27 1.81 | 2 1048 1939 SU | 2.29 1.29 MO | 17 0924 2024 ○ | 2.51 0.79 | 2 0839 1959 TU | 2.52 0.75 | 17 0928 2059 WE | 2.61 0.63 | 2 1002 2129 FR | 2.77 0.52 | 17 1111 2150 SA | 2.50 0.90 |
| 3 0558 1321 FR 1933 | 1.71 2.39 2.06 | 18 0034 0555 SA 1156 1928 | 2.09 1.91 2.26 1.51 | 3 1018 2013 MO | 2.39 1.08 ● | 18 1000 2109 TU | 2.61 0.70 | 3 0919 2049 WE | 2.63 0.62 | 18 1028 2141 TH | 2.60 0.66 | 3 1115 2217 SA | 2.78 0.55 | 18 1158 2220 SU | 2.44 0.99 |
| 4 0043 0637 SA 1303 1950 | 2.10 1.89 2.35 1.84 | 19 0400 0633 SU 1110 ○ 2018 | 2.20 2.15 2.36 1.24 | 4 0537 0632 TU 1012 2055 | 2.36 2.35 2.52 0.91 | 19 1045 2154 WE | 2.65 0.66 | 4 1013 2141 TH | 2.71 0.53 | 19 1122 2221 FR | 2.57 0.71 | 4 1220 2300 SU | 2.72 0.67 | 19 1235 2244 MO | 2.35 1.11 |
| 5 0355 0709 SU 1240 ● 2021 | 2.17 2.06 2.36 1.63 | 20 0522 0709 MO 1053 2107 | 2.37 2.34 2.53 1.04 | 5 1041 2144 WE | 2.64 0.78 ● | 20 1131 2238 TH | 2.65 0.67 | 5 1111 2232 FR | 2.76 0.49 | 20 1207 2258 SA | 2.53 0.76 | 5 0705 0911 MO 1321 2334 | 2.28 2.23 2.59 0.86 | 20 0632 0938 TU 1309 2301 | 2.15 2.03 2.22 1.25 |
| 6 0504 0739 MO 1209 2058 | 2.30 2.22 2.43 1.43 | 21 1116 2157 TU | 2.66 0.91 | 6 1122 2236 TH | 2.73 0.68 ● | 21 1213 2320 FR | 2.62 0.71 | 6 1209 2322 SA | 2.76 0.51 | 21 1245 2330 SU | 2.46 0.84 | 6 0721 1012 TU 1425 2357 | 2.17 2.05 2.36 1.11 | 21 0640 1029 WE 1344 2311 | 2.11 1.90 2.05 1.41 |
| 7 0552 0808 TU 1141 2142 | 2.43 2.36 2.56 1.25 | 22 1151 2246 WE | 2.74 0.85 | 7 1207 2329 FR | 2.78 0.63 ● | 22 1250 SA | 2.56 | 7 0742 0902 SU 1304 | 2.42 2.41 2.71 | 22 0723 0930 MO 1314 2357 | 2.20 2.16 2.36 0.94 | 7 0730 1122 WE 1603 | 2.09 1.85 2.07 | 22 0629 1127 TH 1436 2317 | 2.09 1.76 1.85 1.59 |
| 8 1155 2231 | 2.69 1.11 | 23 1226 2334 | 2.76 0.83 | 8 0801 0912 SA 1254 | 2.56 2.55 2.79 | 23 0000 0808 SU 0926 | 0.76 2.32 2.31 | 8 0006 0813 MO 0957 1359 | 0.59 2.32 2.29 2.57 | 23 0744 1024 TU 1339 | 2.16 2.09 2.23 | 8 0011 0725 TH 1257 ● 1944 | 1.40 2.08 1.62 1.86 | 23 0608 1239 FR 2039 2308 | 2.13 1.59 1.79 1.76 |
| 9 0719 0907 TH 1226 2327 | 2.61 2.57 2.80 1.00 | 24 1300 FR | 2.74 | 9 0020 0858 SU 0940 1344 | 0.63 2.50 2.50 2.74 | 24 0036 0842 MO 1010 1344 | 0.82 2.27 2.26 2.38 | 9 0043 0836 TU 1105 1456 | 0.76 2.22 2.16 2.35 | 24 0018 0758 WE 1131 1401 | 1.08 2.13 2.00 2.06 | 9 0013 0654 FR 1518 | 1.66 2.16 1.33 | 24 0551 1420 SA | 2.21 1.38 ● |
| 10 0810 0933 FR 1303 | 2.66 2.64 2.87 | 25 0021 1329 | 0.85 2.68 | 10 0107 1436 MO | 0.68 2.61 ● | 25 0106 1355 | 0.92 2.26 | 10 0113 0852 WE | 0.99 2.14 1.99 | 25 0031 0758 | 1.25 2.11 | 10 0631 1628 SA | 2.31 1.06 | 25 0524 1527 | 2.34 1.17 |
| 11 0025 1344 | 0.92 2.90 | 26 0105 1351 | 0.89 2.60 | 11 0149 1533 TU | 0.81 2.41 ● | 26 0132 0927 | 1.05 2.19 | 11 0133 0857 TH 1536 | 1.26 2.11 1.70 | 26 0036 0749 | 1.44 2.13 1.58 | 11 0615 1723 SU | 2.48 0.86 | 26 0516 1620 MO | 2.50 0.99 |
| 12 0121 1430 | 0.89 2.87 | 27 0144 1400 | 0.96 2.51 | 12 0226 1033 WE | 1.01 2.26 ● | 27 0153 0929 | 1.23 2.17 | 12 0135 0840 FR 1654 | 1.55 2.14 1.37 | 27 0735 1645 | 2.19 1.35 | 12 0628 1815 MO | 2.60 0.76 | 27 0537 1715 | 2.64 0.85 |
| 13 0213 1522 | 0.90 2.78 | 28 0220 1344 | 1.05 2.40 | 13 0257 1039 TH 1657 | 1.27 2.19 1.84 | 28 0203 0923 | 1.43 2.16 | 13 0813 1749 FR 1925 | 2.25 1.07 1.57 | 28 0712 1713 | 2.29 1.12 | 13 0702 1904 TU | 2.65 0.72 | 28 0617 1814 | 2.74 0.75 |
| 14 0300 1632 | 0.99 2.62 | 29 0254 1140 | 1.18 2.33 | 14 0318 1031 FR 1755 | 1.56 2.17 1.51 | 29 0916 1821 | 2.20 1.36 | 14 0746 1840 SU | 2.40 0.85 | 29 0654 1755 | 2.43 0.92 | 14 0752 1951 WE | 2.64 0.74 | 29 0716 1915 | 2.79 0.70 |
| 15 0347 1305 WE 1639 1809 | 1.16 2.47 2.39 2.41 | 30 0324 1124 | 1.35 2.28 | 15 0957 1848 SA | 2.22 1.21 ● | 30 0858 1837 | 2.27 1.13 | 15 0755 1929 MO | 2.53 0.71 | 30 0709 1846 | 2.57 0.75 | 15 0901 2034 TH | 2.59 0.78 | 30 0834 2012 | 2.79 0.69 |
| | 31 0352 1112 FR 2026 | | 1.55 2.25 1.72 | | | | | | | 31 0748 1941 | 2.67 0.63 | | | 31 1002 2102 | 2.76 0.76 |

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Datum of Predictions is Lowest Astronomical Tide

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

2019

LAT 16° 40' S LONG 139° 10' E

Times and Heights of High and Low Waters

Time Zone –1000

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|--|--------------------------------------|--|--------------------------------------|--|------------------------------|--|------------------------------|---------------------------------|----------------------|---------------------------------|--------------|---------------------------------|--------------|---------------------------------|--------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0551 0723 SU 1127 2143 | 2.43 2.41 2.69 0.90 | 16 0503 0821 MO 1157 2124 | 2.24 2.11 2.27 1.39 | 1 0430 0832 TU 1409 2108 | 2.16 1.86 2.32 1.75 | 16 0206 0901 WE 1720 2032 | 2.29 1.69 2.22 2.09 | 1 1028 FR | 1.07 | 16 1018 2358 | 1.17 3.12 | 1 1114 SU | 1.02 | 16 MO | 1106 1.08 |
| 2 0559 0822 MO 1243 2213 | 2.29 2.20 2.56 1.11 | 17 0508 0900 TU 1256 2140 | 2.17 1.96 2.15 1.54 | 2 0331 0926 WE 1701 2128 | 2.11 1.58 2.28 2.01 | 17 0126 0938 TH | 2.35 1.52 | 2 0025 1123 SA | 3.01 0.98 | 17 1106 SU | 1.09 | 2 0032 1158 MO | 3.34 1.08 | 17 0019 TU | 3.51 1.10 |
| 3 0607 0920 TU 1403 2234 | 2.15 1.96 2.36 1.38 | 18 0452 0940 WE 1504 2152 | 2.12 1.81 2.03 1.70 | 3 0211 1025 TH 1850 2145 | 2.24 1.34 2.33 2.23 | 18 0045 1019 FR 1915 2108 | 2.48 1.36 2.42 2.38 | 3 0059 1218 SU | 3.07 0.97 | 18 0031 1156 MO | 3.19 1.05 | 3 0102 1239 TU | 3.26 1.17 | 18 0102 WE | 3.46 1.17 |
| 4 0607 1021 WE 1609 2249 | 2.07 1.72 2.14 1.65 | 19 0419 1025 TH 1828 2203 | 2.13 1.65 2.01 1.86 | 4 0124 1129 FR 2038 2143 | 2.47 1.16 2.40 2.39 | 19 0046 1107 SA 2017 2124 | 2.63 1.23 2.51 2.50 | 4 0131 1310 MO | 3.07 1.01 | 19 0109 1247 TU | 3.22 1.05 | 4 0121 1315 WE | 3.15 1.28 | 19 0142 1307 TH | 3.33 1.31 |
| 5 0527 1128 TH 1916 2258 | 2.08 1.49 2.05 1.90 | 20 0357 1116 FR 1953 2211 | 2.20 1.49 2.07 2.02 | 5 0147 1239 SA | 2.67 1.03 SU | 20 0109 1201 MO | 2.77 1.13 | 5 0157 1357 TU | 3.01 1.08 | 20 0147 1334 WE | 3.19 1.09 | 5 0120 1346 TH | 3.04 1.42 | 20 0208 1335 FR | 3.13 1.52 |
| 6 0449 1256 | 2.22 1.28 | 21 0256 1215 | 2.32 1.33 | 6 0220 1349 SU | 2.79 0.97 MO | 21 0139 1259 | 2.87 1.06 | 6 0210 1440 WE | 2.93 1.19 | 21 0220 1417 | 3.10 1.20 | 6 1410 2301 FR | 1.59 2.90 | 21 1354 2212 SA | 1.80 2.95 |
| 7 0413 1436 | 2.42 1.08 | 22 0248 1323 | 2.49 1.18 | 7 0254 1448 MO | 2.84 0.96 TU | 22 0215 1358 | 2.94 1.01 | 7 0208 1519 TH | 2.83 1.33 | 22 0150 1458 | 2.96 1.38 | 7 1426 2248 SA | 1.80 2.87 | 22 1338 2157 | 2.10 2.94 |
| 8 0418 1544 | 2.59 0.93 | 23 0312 1432 | 2.63 1.05 | 8 0326 1540 TU | 2.82 1.00 WE | 23 0255 1455 | 2.96 1.01 | 8 0147 1557 FR | 2.75 1.50 | 23 0013 1535 | 2.84 1.63 | 8 1410 2234 SU | 2.02 2.87 | 23 0617 2125 | 2.10 3.03 |
| 9 0447 1639 | 2.69 0.87 | 24 0348 1534 | 2.75 0.95 | 9 0345 1628 WE | 2.76 1.09 TH | 24 0336 1549 | 2.92 1.07 | 9 0116 1633 SA | 2.67 1.68 SU | 24 0000 1606 | 2.74 1.94 | 9 0842 2221 MO | 2.00 2.91 | 24 0644 2058 | 1.76 3.20 |
| 10 0523 1732 | 2.71 0.87 | 25 0433 1634 | 2.82 0.90 | 10 0344 1716 TH | 2.68 1.19 FR | 25 0338 1643 | 2.82 1.20 | 10 0047 1710 SU | 2.61 1.89 MO | 25 0636 2304 | 2.06 2.70 | 10 0802 2209 TU | 1.83 2.99 | 25 0725 2058 | 1.48 3.39 |
| 11 0605 1821 | 2.68 0.92 | 26 0534 1735 | 2.83 0.90 | 11 0342 1802 FR | 2.59 1.31 SA | 26 0236 0523 | 2.69 2.64 | 11 0030 0910 MO | 2.57 2.00 TU | 26 0718 2225 | 1.73 2.85 | 11 0758 2149 WE | 1.63 3.11 | 26 0810 2132 | 1.28 3.52 |
| 12 0704 1909 | 2.61 0.98 | 27 0655 1835 | 2.79 0.95 | 12 0333 1845 SA | 2.50 1.44 SU | 27 0232 1821 | 2.55 1.64 | 12 0009 0819 TU | 2.58 1.81 WE | 27 0805 2213 | 1.43 3.06 | 12 0819 2152 TH | 1.44 3.24 | 27 0855 2216 | 1.16 3.58 |
| 13 0546 1951 | 2.50 1.06 | 28 0826 1928 | 2.70 1.07 | 13 0319 1922 SU | 2.41 1.59 MO | 28 0211 0659 | 2.41 2.09 | 13 0831 1736 WE | 1.61 2.50 2323 | 28 0852 2241 | 1.20 3.24 | 13 0853 2218 FR | 1.29 3.36 | 28 0938 2302 | 1.13 3.59 |
| 14 0524 0705 SA 0946 ○ 2029 | 2.40 2.38 2.44 2.44 1.14 | 29 0430 0641 SU 1023 ● 2013 | 2.47 2.41 2.58 2.58 1.25 | 14 0305 0800 MO 1244 ○ 1951 | 2.33 2.06 2.14 1.75 | 29 0128 0749 TU 1520 1935 | 2.34 1.77 2.35 2.19 | 14 0900 2312 TH | 1.43 2.88 | 29 0940 2318 | 1.06 3.34 | 14 0934 2255 SA | 1.18 3.45 | 29 1021 2345 | 1.15 3.55 |
| 15 0506 0744 SU 1057 2100 | 2.31 2.25 2.36 2.36 1.26 | 30 0435 0737 MO 1209 2043 | 2.31 2.15 2.45 2.45 1.49 | 15 0232 0828 TU 1524 2014 | 2.28 1.88 2.14 1.92 | 30 0017 0841 WE 2337 * | 2.43 1.47 2.64 | 15 0936 2329 FR | 1.28 3.01 | 30 1027 2357 | 1.01 3.37 | 15 1019 2336 SU | 1.11 3.50 | 30 1101 MO | 1.21 |
| | | | | | | 31 0933 2353 | 1.23 2.86 | | | | | | | 31 0022 1137 | 3.47 1.30 |
| | | | | | | | | | | | | | | | |

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 Datum of Predictions is Lowest Astronomical Tide

* Extra Tides

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

Extra tides for Queensland – 2019

| Twin Island | | |
|--------------------|------|------|
| Feb | | |
| 10 | 1854 | 1.46 |
| | 2314 | 1.71 |
| 25 | 0518 | 1.87 |
| | 0600 | 1.87 |
| Mar | | |
| 12 | 2345 | 1.97 |
| 13 | 0522 | 1.86 |
| Aug | | |
| 21 | 1156 | 1.75 |
| | 1758 | 1.47 |
| Sep | | |
| 17 | 1300 | 2.27 |
| | 1736 | 1.20 |
| Nov | | |
| 15 | 2034 | 1.56 |
| | 2308 | 1.70 |

| Karumba | | |
|----------------|------|------|
| Mar | | |
| 24 | 0555 | 2.24 |
| | 0756 | 2.26 |
| 25 | 1725 | 2.33 |
| | 1815 | 2.33 |
| Apr | | |
| 20 | 1144 | 2.11 |
| | 1245 | 2.10 |
| Sep | | |
| 3 | 2345 | 1.51 |
| 4 | 0123 | 1.54 |
| 19 | 0505 | 1.92 |
| | 0800 | 1.94 |
| Oct | | |
| 1 | 0013 | 1.67 |
| | 0136 | 1.64 |

| Goods Island | | |
|---------------------|------|------|
| May | | |
| 2 | 0747 | 2.29 |
| | 0815 | 2.29 |
| Nov | | |
| 13 | 0722 | 2.48 |
| | 0834 | 2.46 |

| Mornington Island | | |
|--------------------------|------|------|
| Oct | | |
| 30 | 1726 | 2.51 |
| | 2002 | 2.43 |
| Nov | | |
| 12 | 1644 | 2.32 |
| | 1815 | 2.31 |

| Thursday Island | | |
|------------------------|------|------|
| Mar | | |
| 9 | 1715 | 1.86 |
| | 1847 | 1.91 |
| 10 | 2006 | 1.95 |
| 11 | 0502 | 1.78 |
| 23 | 0438 | 1.93 |
| | 0601 | 1.97 |
| 24 | 0450 | 2.07 |
| | 0701 | 2.22 |
| | 1706 | 1.87 |
| | 1931 | 2.07 |
| Aug | | |
| 20 | 0544 | 1.72 |
| | 0737 | 1.81 |
| Sep | | |
| 2 | 1907 | 1.80 |
| | 2143 | 1.65 |
| 16 | 0820 | 1.49 |
| | 1309 | 1.93 |
| Oct | | |
| 1 | 1641 | 2.00 |
| | 1818 | 2.07 |
| 2 | 0454 | 1.68 |
| | 0705 | 1.85 |

Highest tides for year 2019

| Place | Highest Summer Tide | | | Highest Winter Tide | | |
|---|---------------------|-------|--------|---------------------|-------|--------|
| | Date | Time | Height | Date | Time | Height |
| Gold Coast Seaway HAT 1.91 | 22/01/2019 | 09:09 | 1.91m | 01/08/2019 | 20:43 | 1.89m |
| Brisbane Bar HAT 2.73 | 20/02/2019 | 08:53 | 1.91m | | | |
| Mooloolaba HAT 2.17 | 22/01/2019 | 10:31 | 2.77m | 01/08/2019 | 22:04 | 2.71m |
| Noosa Head HAT 2.28 | 22/01/2019 | 08:59 | 2.19m | 01/08/2019 | 20:33 | 2.14m |
| Urangan HAT 4.28 | 20/02/2019 | 08:41 | 2.19m | | | |
| Fraser Island (Waddy Point) HAT 2.37 | 22/01/2019 | 08:46 | 2.39m | 30/08/2019 | 20:53 | 4.24m |
| Bundaberg (Burnett Heads) HAT 3.67 | 20/02/2019 | 09:07 | 3.67m | 02/08/2019 | 21:24 | 2.22m |
| Gladstone HAT 4.83 | 20/02/2019 | 09:47 | 4.85m | 30/08/2019 | 21:22 | 4.69m |
| Port Alma HAT 5.98 | 20/02/2019 | 09:50 | 5.94m | 30/08/2019 | 21:26 | 5.76m |
| Rosslyn Bay HAT 5.14 | 20/02/2019 | 09:37 | 5.16m | 30/08/2019 | 21:09 | 5.00m |
| Hay Point HAT 7.14 | 20/02/2019 | 11:23 | 7.13m | 30/08/2019 | 22:59 | 6.93m |
| Mackay Outer Harbour HAT 6.58 | 20/02/2019 | 11:25 | 6.61m | 30/08/2019 | 23:01 | 6.40m |
| Shute Harbour HAT 4.33 | 19/02/2019 | 10:35 | 4.33m | 01/08/2019 | 23:16 | 4.11m |
| Bowen HAT 3.73 | 19/02/2019 | 09:47 | 3.75m | 29/08/2019 | 21:23 | 3.54m |
| Abbot Point HAT 3.60 | 19/02/2019 | 09:33 | 3.56m | 29/08/2019 | 21:09 | 3.36m |
| Cape Ferguson HAT 3.84 | 19/02/2019 | 08:52 | 3.82m | 30/08/2019 | 21:09 | 3.59m |
| Townsville HAT 4.11 | 19/02/2019 | 08:56 | 4.18m | 30/08/2019 | 21:14 | 3.96m |
| Lucinda Offshore HAT 3.96 | 19/02/2019 | 09:02 | 4.02m | 30/08/2019 | 21:19 | 3.79m |
| Clump Point HAT 3.62 | 19/02/2019 | 08:59 | 3.70m | 30/08/2019 | 21:17 | 3.46m |
| Mourilyan Harbour HAT 3.50 | 19/02/2019 | 09:00 | 3.54m | 30/08/2019 | 21:17 | 3.33m |
| Cairns HAT 3.50 | 19/02/2019 | 09:15 | 3.52m | 30/08/2019 | 21:31 | 3.31m |
| Port Douglas HAT 3.36 | 19/02/2019 | 09:05 | 3.38m | 30/08/2019 | 21:22 | 3.15m |
| Twin Island HAT 3.80 | 19/02/2019 | 12:11 | 3.81m | 31/08/2019 | 00:23 | 3.75m |
| Thursday Island HAT 3.86 | 19/02/2019 | 12:47 | 3.77m | 31/08/2019 | 00:21 | 3.47m |
| Goods Island HAT 4.07 | 29/01/2019 | 11:15 | 3.90m | | | |
| Booby Island HAT 4.31 | 29/01/2019 | 11:15 | 4.24m | | | |
| Weipa (Humbug Point) HAT 3.38 | 22/01/2019 | 16:42 | 3.25m | | | |
| Karumba HAT 4.88 | 22/01/2019 | 20:54 | 4.77m | | | |
| Mornington Island HAT 3.87 | 22/01/2019 | 22:28 | 3.77m | | | |

The highest tides listed - often referred to as king tides - are the highest spring tides that occur during summer and winter. Boat owners and people living along the waterfront should be vigilant at the times of these highest tides particularly in the summer, as storms and cyclones may elevate tidal levels significantly above the predicted tide heights.

Tidal notes

Tidal datum epoch

Australian tidal authorities have adopted the 20 year Tidal Datum Epoch 1992 to 2011 (inclusive) as the basis for calculating tidal datum and the associated tidal planes.

Accordingly in the 2010 edition the standard ports' semidiurnal and diurnal tidal planes were updated - to incorporate the latest available tidal observations, prediction information and allowance for sea level rise. It is intended that the 2010 tidal plane values will now remain fixed until the tidal datum epoch is reviewed or significant changes occur.

The mean sea levels listed in the table 'Mean Sea Level Used for the Tidal Predictions' will change over the course of the tidal epoch as they include the most recent observations and an allowance for sea level rise.

Datum of tidal heights

The height of the tide (expressed as metres and decimals) is referred to the port datum (LAT datum). When a low water falls below datum, it is marked with a minus sign (-).

When utilising a navigational chart, tidal height should be added to chart depth. If preceded by a minus sign, it should be subtracted.

Standard port

Standard ports are those provided as daily tables of the predicted times and heights of high and low waters. The tide times are referred to Australian Eastern Standard Time and the tide heights are referred to LAT datum.

Secondary places

Secondary places are those for which daily predictions are not provided in the Queensland Tide Tables. These locations are grouped and associated to the adjacent standard port with a similar tidal pattern. Data sufficient for calculating their times and heights is supplied following the standard port prediction tables.

Tidal Levels

A list of tidal levels referred to LAT datum for standard ports and selected secondary places is given in the following tables: -

- Standard Port Datum Levels
- Semidiurnal Tidal Planes
- Diurnal Tidal Planes

In addition, the tables for semidiurnal and diurnal tidal planes provide the factors necessary to calculate tidal predictions at the selected secondary places (referred to LAT datum at each secondary place) from the tidal predictions of the standard ports.

Rise

The rise of the tide is the height of the high water above port datum.

Range

The range of the tide is the difference between the height of high water and the next succeeding or last preceding low water.

Semidiurnal tide

Semidiurnal tide refers to a tide which has a period or cycle of approximately half of one tidal day (about 12.5 hours). Semidiurnal tides usually have two high and two low tides each day. The tides at Brisbane Bar are a typical example of semidiurnal tides.

Diurnal tide

Diurnal tide refers to a tide which has a period or cycle of approximately one tidal day (about 25 hours). Diurnal tides usually have one high and one low tide each day. The tides at Karumba are a typical example of diurnal tides.

Highest tides for year

King tide is a non-scientific term, but the popular concept is that it is the higher high waters which occur around Christmas time. Equally high tides occur in the winter months during the night.

Meteorological effects on tides

Meteorological conditions which differ significantly from the seasonal averages, will cause corresponding differences between the predicted and the actual tide.

Variations in tidal heights are mainly caused by strong or prolonged winds and by unusually high or low barometric pressure. Tidal predictions are computed for average barometric pressure.

Low pressure systems tend to raise sea levels, and high pressure systems tend to lower them. However, the water does not adjust itself immediately to a change of pressure, but responds to the average change in pressure over a considerable area.

The effect of wind on sea level, and therefore on tidal heights and times, is variable and depends on the topography of the area in question. In general, it can be said that wind will raise the sea level in the direction towards which it is blowing.

A strong wind blowing straight onshore will cause the water to "pile up" resulting in high waters to be higher than predicted. Winds blowing off the land will have the reverse effect.

Tidal definitions

LAT (lowest astronomical tide)

HAT (highest astronomical tide)

These are the lowest and highest levels which can be predicted to occur under average meteorological conditions and any combination of astronomical conditions.

These levels will not be reached every year.

LAT and HAT are not the extreme levels which can be reached, as storm surges may cause considerably lower and higher levels to occur.

LAT has been used as port and chart datum since 1994.

MSL (mean sea-level)

The mean level of the sea over a long period (preferably 18.6 years) or the mean level which would exist in the absence of tides.

AHD (Australian height datum)

This datum has been adopted by the National Mapping Council as the datum to which all vertical control for land based mapping is to be referred.

MHWS (mean high water springs)

The long term mean of the heights of two successive high waters during those periods of 24 hours (approximately once a fortnight) when the range of tide is greatest during the full and new moon.

MLWS (mean low water springs)

The long term mean of the heights of two successive low waters over the same periods as defined for MHWS.

MHWN (mean high water neaps)

The long term mean of the heights of two successive high waters when the range of tide is the least at the time of first and last quarter of the moon.

MLWN (mean low water neaps)

The long term mean of the heights of two successive low waters over the same periods as defined for MHWN.

MHHW (mean higher high water)

The mean of the higher of the two daily high waters over a long period of time. When only one high water occurs on a day, this is taken as the higher high water.

MLHW (mean lower high water)

The mean of the lower of the two daily high waters over a long period of time. When only one high water occurs on most days, no value is printed in the MLHW column, indicating that the tide is usually diurnal.

MHLW (mean higher low water)

The mean of the higher of the two daily low waters over a long period of time.

When only one low water occurs on most days, no value is printed in the MHLW column, indicating that the tide is usually diurnal.

MLLW (mean lower low water)

The mean of the lower of the daily low waters over a long period of time. When only one low water occurs a day, this is taken as the lower low water.

MHW (mean high water)

The mean of all high waters observed over a sufficiently long period (preferably over the current tidal datum epoch).

For those stations with shorter series, simultaneous observational comparisons are made with a control tide station in order to derive the equivalent datum.

MLW (mean low water)

The mean of all low waters observed over a sufficiently long period (preferably over the current tidal datum epoch).

For those stations with shorter series, simultaneous observational comparisons are made with a control tide station in order to derive the equivalent datum.

LWD (Low Water Datum)

The mean height of the lower low waters at springs.

This was a local plane which usually satisfied the criterion that the tide seldom fell below it.

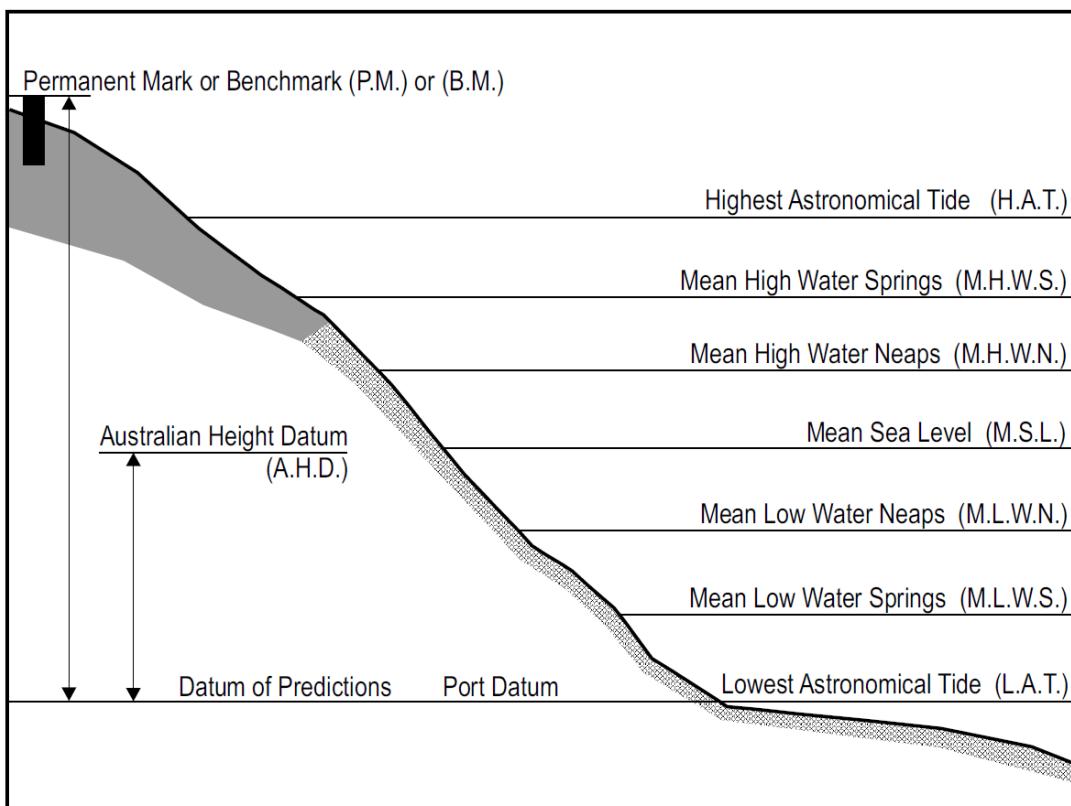
In the past, this was generally chosen for port and chart datum in Queensland waters however it was superseded by LAT datum in 1994.

Guide to tidal planes

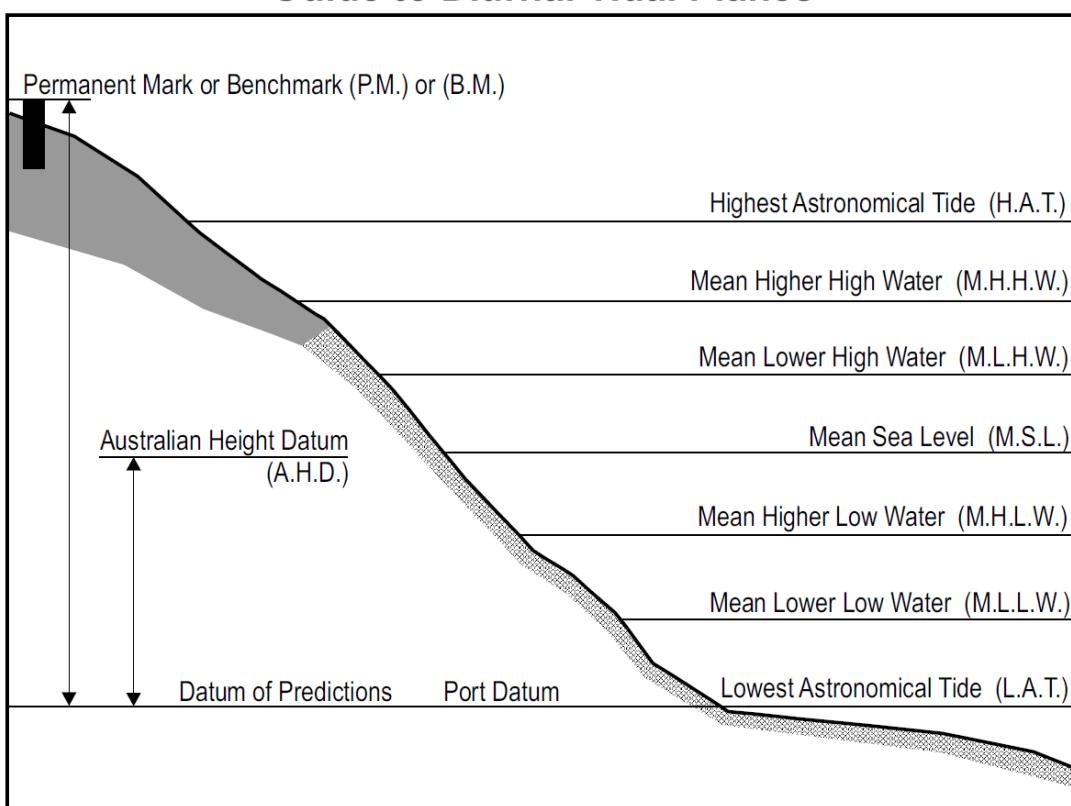
Tidal datum epoch

The Queensland standard ports' semidiurnal and diurnal tidal planes were updated for the current tidal datum epoch 1992 – 2011, using the latest available tidal observations, prediction information and allowance for sea level rise. It is intended to maintain the standard port datum planes until an official review highlights the need for an update to the epoch . The secondary place tidal planes have also been updated to match the new values adopted at the standard ports.

Guide to Semidiurnal Tidal Planes



Guide to Diurnal Tidal Planes



Standard port datum levels

Height above Lowest Astronomical Tide (LAT)

| Standard Port | Benchmark Number | Level Above LAT | AHD Above LAT | Standard Port | Benchmark Number | Level Above LAT | AHD Above LAT |
|-----------------------------|------------------|-----------------|---------------|----------------------|------------------|-----------------|---------------|
| Gold Coast Seaway | PM QGS564 | 6.688 | 0.760 | Cape Ferguson | PM 74/09* | 10.890 | 1.693 |
| Brisbane Bar | PM 21764 | 3.102 | 1.243 | Townsville | PM 10011 | 9.025 | 1.856 |
| Mooloolaba | PM 14102 | 3.131 | 0.990 | Lucinda (Offshore) | PM H&M 14 | 5.543 | 1.844 |
| Noosa Head | PM 19728 | 3.781 | 1.123 | Clump Point | PM 25794 | 6.648 | 1.678 |
| Waddy Point (Fraser Island) | PM NMV/B/417 | 3.165 | 1.007 | Mourilyan Harbour | PM 4855 | 5.037 | 1.729 |
| Urangan | PM 11028 | 5.835 | 2.040 | Cairns | PM 96052 | 5.008 | 1.643 |
| Bundaberg (Burnett Heads) | PM 3853 | 6.061 | 1.693 | Port Douglas | PM 10077 | 6.058 | 1.581 |
| Gladstone | PM 10855 | 5.660 | 2.268 | Leggatt Island | Mean Sea Level | 1.691 | N.A. |
| Port Alma | PM 22966 | 6.706 | 2.854 | Twin Island | PM NMV/B/463 | 2.990 | N.A. |
| Rosslyn Bay | PM 47784 | 6.640 | 2.360 | Thursday Island | PM 10078 | 6.375 | 1.769 |
| Hay Point | PM 38627 | 18.040 | 3.340 | Goods Island | PM NMV/B/477 | 5.330 | N.A. |
| Mackay Outer Harbour | PM 20035 | 10.595 | 2.941 | Booby Island | PM BM1 | 10.770 | N.A. |
| Bugatti Reef | PM BM. No. 1 | 2.330 | N.A. | Weipa (Humbug Point) | PM 15094 | 7.287 | 1.752 |
| Shute Harbour | PM 8295 | 5.103 | 1.907 | Karumba | PM 10222 | 6.808 | 2.184 |
| Bowen | PM 10009 | 8.689 | 1.776 | Mornington Island | PM RM3 | 4.894 | 2.000 |
| Abbot Point | PM 66022 | 8.740 | 1.626 | | | | |

The elevation of AHD datum above LAT datum applies at the standard port benchmark only and will vary at secondary locations.

Mean Sea level used for the tidal predictions – 2019

An allowance of 2.3 mm per year for sea level change has been made in the mean sea level (MSL) estimate. The allowance is calculated from the central date of the observation period to the central date of the prediction year. The heights are referred to Lowest Astronomical Tide datum.

| Place | Observation Period | MSL | Place | Observation Period | MSL |
|-----------------------------|----------------------|-------|----------------------|----------------------|-------|
| Gold Coast Seaway | Jan 1993 to Feb 1999 | 0.808 | Cape Ferguson | Jan 1991 to Dec 2016 | 1.740 |
| Brisbane Bar | Jan 1985 to Dec 2016 | 1.317 | Townsville | Jan 1985 to Dec 2016 | 1.993 |
| Mooloolaba | Jan 1987 to Dec 2016 | 0.996 | Lucinda (Offshore) | Jun 1985 to Dec 2016 | 1.937 |
| Noosa Head | Dec 1970 to Dec 1971 | 1.147 | Clump Point | Dec 1985 to Dec 2016 | 1.796 |
| Waddy Point (Fraser Island) | Oct 1976 to Feb 1978 | 1.177 | Mourilyan Harbour | Jan 1985 to Dec 2016 | 1.788 |
| Urangan | Sep 1986 to Dec 2016 | 2.129 | Cairns | Jan 1985 to Dec 2016 | 1.736 |
| Bundaberg (Burnett Heads) | Jan 1985 to Dec 2016 | 1.770 | Port Douglas | Jan 1987 to Dec 2013 | 1.642 |
| Gladstone | Jan 1985 to Dec 2016 | 2.386 | Leggatt Island | Sep 1995 to Apr 1996 | 1.700 |
| Port Alma | Jan 1986 to Dec 2016 | 2.948 | Twin Island | Jul 1974 to Dec 1975 | 1.796 |
| Rosslyn Bay | Jan 1993 to Dec 2016 | 2.472 | Thursday Island | Jan 1985 to Dec 2016 | 1.909 |
| Hay Point | Jan 1985 to Dec 2016 | 3.420 | Goods Island | Jan 1990 to Dec 2016 | 2.178 |
| Mackay Outer Harbour | Jan 1985 to Dec 2016 | 3.062 | Booby Island | Jan 1990 to Dec 2016 | 2.465 |
| Bugatti Reef | Oct 1996 to Mar 1997 | 1.595 | Weipa (Humbug Point) | Jan 1985 to Dec 2016 | 1.883 |
| Shute Harbour | Jan 1987 to Dec 2016 | 1.963 | Karumba | Dec 1985 to Dec 2016 | 2.158 |
| Bowen | Jan 1986 to Dec 2016 | 1.804 | Mornington Island | Jun 2007 to Dec 2016 | 2.154 |
| Abbot Point | May 1985 to Dec 1995 | 1.737 | | | |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude South | Longitude East | Time Difference | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT |
|--|-------------------|-------------------|-----------------|----------------|----------------|------|------|-------|------|-------|------|------------|
| | | | | HW 1 H M | LW 2 H M | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| | | | | | | m | m | m | m | m | m | 11 m |
| Tidal Datum Epoch 1992 - 2011 | | | | | | | | | | | | |
| Gold Coast Seaway | 27 57 | 153 25 | Standard Port | 1.42 | 1.13 | 0.39 | 0.11 | 0.760 | 0.76 | 1.00 | 0.00 | 1.91 |
| North Coast New South Wales - | | | | | | | | | | | | |
| Ballina (Richmond River) | 28 53 | 153 35 | +0 06 | +0 06 | 1.4 | 1.1 | 0.5 | 0.2 | | 0.80 | | 1.9 |
| Brunswick Heads | 28 32 | 153 33 | +0 07 | +0 07 | 1.5 | 1.2 | 0.5 | 0.2 | | 0.86 | | 2.0 |
| Kingscliff | 28 16 | 153 35 | +0 09 | +0 09 | 1.4 | 1.1 | 0.4 | 0.2 | | 0.76 | | 1.9 |
| Tweed River Breakwater | 28 10 | 153 33 | -0 04 | +0 00 | 1.47 | 1.22 | 0.55 | 0.29 | 0.86 | 0.91 | 0.92 | +0.04 1.91 |
| Gold Coast Beaches - | | | | | | | | | | | | |
| Snapper Rocks (Coolangatta) | 28 10 | 153 33 | -0 26 | -0 15 | 1.64 | 1.32 | 0.49 | 0.20 | 0.98 | 0.97 | 1.10 | 0.00 2.11 |
| Ocean Beaches | | | | | | | | | | | | |
| Jumpinpin Bar to Snapper Rocks tides occur 20 mins earlier than Gold Coast Seaway. | | | | | | | | | | | | |
| Broadwater & Nerang River- | | | | | | | | | | | | |
| Isle of Capri | 28 00 | 153 25 | +0 41 | +0 56 | 1.17 | 0.90 | 0.28 | 0.08 | 0.59 | 0.67 | 0.72 | +0.24 1.60 |
| Gold Coast Bridge | 27 59 | 153 25 | +0 10 | +0 20 | 1.51 | 1.23 | 0.51 | 0.24 | 0.79 | 0.83 | 0.97 | +0.13 1.98 |
| Grand Hotel Jetty | 27 57 | 153 25 | +0 16 | +0 31 | 1.39 | 1.11 | 0.38 | 0.11 | 0.79 | 0.80 | 0.98 | 0.00 1.87 |
| Nerang Township | 28 00 | 153 20 | +1 53 | +2 39 | 1.08 | 0.87 | 0.17 | 0.03 | 0.48 | 0.58 | 0.78 | 0.00 1.49 |
| Paradise Point | 27 53 | 153 24 | +1 01 | +1 25 | 1.20 | 0.93 | 0.23 | 0.05 | 0.61 | 0.64 | 0.87 | 0.00 1.66 |
| Runaway Bay | 27 55 | 153 24 | +0 31 | +0 52 | 1.18 | 0.91 | 0.22 | 0.05 | 0.62 | 0.62 | 0.86 | 0.00 1.65 |
| Coomera River (Saltwater Creek) | 27 52 | 153 20 | +1 44 | +2 21 | 1.23 | 0.99 | 0.37 | 0.13 | 0.56 | 0.67 | 0.84 | +0.04 1.64 |
| Sanctuary Cove | 27 51 | 153 22 | +1 34 | +2 06 | 1.23 | 0.99 | 0.37 | 0.13 | 0.56 | 0.67 | 0.84 | +0.04 1.65 |
| Couran Cove | 27 49 | 153 25 | +1 19 | +1 20 | 1.34 | 1.06 | 0.35 | 0.09 | 0.78 | 0.76 | 0.96 | -0.02 1.81 |
| The Bedroom | 27 46 | 153 26 | +1 14 | +1 06 | 1.34 | 1.06 | 0.35 | 0.09 | | 0.76 | 0.96 | -0.02 1.81 |
| Brisbane Bar | 27 22 | 153 10 | Standard Port | 2.17 | 1.78 | 0.76 | 0.37 | 1.243 | 1.27 | 1.00 | 0.00 | 2.73 |
| Pimpama River (Kerkin Rd Weir) | 27 48 | 153 20 | +0 57 | +1 27 | 1.36 | 1.05 | 0.30 | 0.15 | 0.60 | 0.73 | | 1.78 |
| Albert River - | | | | | | | | | | | | |
| Junction Logan River | 27 42 | 153 14 | +1 22 | +2 14 | 2.05 | 1.66 | 0.54 | 0.33 | 0.98 | 1.12 | | 2.59 |
| Pacific Highway Bridge | 27 44 | 153 13 | +1 37 | +2 42 | 1.90 | 1.50 | 0.44 | 0.25 | 0.91 | 0.94 | | 2.45 |
| Wolfddene | 27 47 | 153 11 | +2 12 | | 1.32 | 0.98 | | | 0.91 | | | 1.79 |
| Logan River - | | | | | | | | | | | | |
| Rocky Point (Mouth Logan River) | 27 42 | 153 21 | +0 40 | +0 55 | 2.09 | 1.72 | 0.74 | 0.37 | 1.10 | 1.21 | 0.96 | +0.01 2.63 |
| Junction Albert River | 27 42 | 153 14 | +1 22 | +2 14 | 2.05 | 1.66 | 0.54 | 0.33 | 0.98 | 1.12 | | 2.59 |
| Slacks Creek (Mouth) | 27 40 | 153 10 | +2 13 | +3 05 | 1.79 | 1.45 | 0.40 | 0.21 | 0.82 | 0.96 | | 2.27 |
| Waterford | 27 42 | 153 09 | +2 39 | +3 34 | 1.59 | 1.27 | 0.28 | 0.11 | 0.66 | 0.81 | | 2.03 |
| Brisbane River - | | | | | | | | | | | | |
| Boat Passage | 27 24 | 153 10 | +0 00 | +0 00 | 2.17 | 1.78 | 0.76 | 0.37 | 1.24 | 1.27 | 1.00 | 0.00 2.73 |
| Pinkenba | 27 26 | 153 07 | +0 10 | +0 10 | 2.22 | 1.82 | 0.78 | 0.38 | 1.24 | 1.27 | 1.02 | 0.00 2.79 |
| Cairncross Dock | 27 27 | 153 05 | +0 20 | +0 20 | 2.30 | 1.89 | 0.81 | 0.39 | 1.24 | 1.34 | 1.06 | 0.00 2.89 |
| New Farm | 27 28 | 153 03 | +0 25 | +0 25 | 2.30 | 1.89 | 0.81 | 0.39 | 1.24 | 1.34 | 1.06 | 0.00 2.89 |
| Port Office (Edward St Ferry) | 27 28 | 153 02 | +0 30 | +0 30 | 2.30 | 1.89 | 0.81 | 0.39 | 1.24 | 1.32 | 1.06 | 0.00 2.89 |
| Tennyson (Long Pocket) | 27 32 | 153 00 | +0 50 | +0 50 | 2.37 | 1.94 | 0.83 | 0.40 | 1.15 | 1.38 | 1.09 | 0.00 2.98 |
| Indooroopilly | 27 31 | 152 59 | +1 10 | +1 10 | 2.34 | 1.92 | 0.82 | 0.40 | 1.15 | 1.37 | 1.08 | 0.00 2.95 |
| Seventeen Mile Rocks | 27 33 | 152 58 | +1 20 | +1 20 | 2.30 | 1.89 | 0.81 | 0.39 | 1.05 | 1.30 | 1.06 | 0.00 2.89 |
| Jindalee | 27 32 | 152 56 | +1 20 | +1 20 | 2.32 | 1.90 | 0.81 | 0.39 | 1.05 | 1.30 | | 2.92 |
| Wacol (Wolston Creek) | 27 34 | 152 54 | +1 55 | +1 55 | 2.18 | 1.83 | 0.56 | 0.27 | 1.00 | 1.20 | | 2.69 |
| Goodna (Woogaroo Creek) | 27 36 | 152 54 | +2 00 | +2 10 | 2.10 | 1.76 | 0.50 | 0.24 | 1.00 | 1.13 | | 2.60 |
| Moggill Ferry | 27 36 | 152 51 | +2 20 | +2 30 | 2.13 | 1.77 | 0.39 | 0.12 | 0.95 | 1.09 | | 2.64 |
| Kholo Creek | 27 32 | 152 51 | +2 30 | +2 50 | 2.14 | 1.79 | 0.37 | 0.18 | 0.90 | 1.09 | | 2.65 |
| Bremer River | | | | | | | | | | | | |
| Warrego Highway Bridge | 27 35 | 152 49 | +2 30 | +2 55 | 2.34 | 1.96 | 0.61 | 0.40 | 0.95 | 1.31 | | 2.89 |
| Ipswich (Bremer River) | 27 35 | 152 47 | +2 40 | +3 10 | 2.16 | 1.76 | 0.71 | 0.30 | 0.95 | 1.30 | | 2.81 |
| Moreton Bay Area - | | | | | | | | | | | | |
| Ocean Beaches | | | | | | | | | | | | |
| Cape Moreton to Snapper Rocks tides occur 1hr 30min earlier than Brisbane Bar. | | | | | | | | | | | | |
| Woogoompah Island | 27 47 | 153 24 | +0 14 | +0 02 | 1.50 | 1.23 | 0.52 | 0.26 | | 0.82 | 0.69 | -0.02 1.88 |
| Jacobs Well | 27 47 | 153 22 | +0 28 | +0 18 | 1.59 | 1.29 | 0.49 | 0.19 | 0.74 | 0.86 | 0.78 | -0.10 2.03 |
| Cabbage Tree Point | 27 44 | 153 22 | +0 30 | +0 29 | 1.84 | 1.50 | 0.61 | 0.27 | 0.89 | 1.03 | 0.87 | -0.05 2.33 |
| Kalinga Bank | 27 44 | 153 26 | -0 34 | -0 47 | 1.49 | 1.22 | 0.53 | 0.26 | | 0.87 | 0.68 | +0.01 1.87 |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude | Longitude | Time Difference | | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT |
|--------------------------------------|----------|-----------|-----------------|-------|------|------|------|------|------|------|-------|-------|------|
| | South | East | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | H M | H M | m | m | m | m | m | m | m | m | 10 |
| Tidal Datum Epoch 1992 - 2011 | | | | | | | | | | | | | |
| Brisbane Bar continued | | | | | | | | | | | | | |
| Moreton Bay Area continued | | | | | | | | | | | | | |
| Oak Island | 27 42 | 153 24 | +0 15 | -0 30 | 1.71 | 1.41 | 0.60 | 0.29 | | 0.96 | 0.79 | 0.00 | 2.16 |
| Koureyabba | 27 42 | 153 24 | +0 30 | +0 06 | 1.76 | 1.44 | 0.62 | 0.30 | | 1.00 | 0.81 | 0.00 | 2.21 |
| Russell Island (Canaipa Point) | 27 39 | 153 25 | +0 31 | +0 42 | 2.30 | 1.89 | 0.81 | 0.39 | 1.39 | 1.33 | 1.06 | 0.00 | 2.89 |
| Macleay Island (Southern Jetty) | 27 38 | 153 22 | +0 30 | +0 42 | 2.25 | 1.83 | 0.73 | 0.31 | 1.29 | 1.25 | 1.08 | -0.09 | 2.86 |
| Redland Bay | 27 37 | 153 18 | +0 30 | +0 45 | 2.37 | 1.94 | 0.83 | 0.40 | 1.41 | 1.35 | 1.09 | 0.00 | 2.98 |
| Victoria Point | 27 35 | 153 19 | +0 14 | +0 18 | 2.38 | 1.97 | 0.91 | 0.50 | 1.41 | 1.39 | 1.04 | +0.12 | 2.96 |
| Macleay Island (Potts Point) | 27 35 | 153 22 | +0 15 | +0 23 | 2.28 | 1.87 | 0.80 | 0.39 | | 1.32 | 1.05 | 0.00 | 2.87 |
| Toondah Harbour (Cleveland) | 27 32 | 153 17 | +0 13 | +0 16 | 2.21 | 1.82 | 0.78 | 0.38 | 1.25 | 1.29 | 1.02 | 0.00 | 2.78 |
| Cleveland Point | 27 31 | 153 18 | +0 13 | +0 16 | 2.21 | 1.82 | 0.78 | 0.38 | 1.25 | 1.29 | 1.02 | 0.00 | 2.78 |
| Peel Island | 27 30 | 153 21 | +0 10 | +0 17 | 2.21 | 1.82 | 0.78 | 0.38 | | 1.23 | 1.02 | 0.00 | 2.78 |
| Dunwich | 27 30 | 153 24 | +0 11 | +0 16 | 2.15 | 1.76 | 0.75 | 0.37 | 1.30 | 1.22 | 0.99 | 0.00 | 2.70 |
| Raby Bay (Canals Entrance) | 27 30 | 153 16 | +0 02 | +0 02 | 2.27 | 1.86 | 0.81 | 0.41 | 1.36 | 1.32 | 1.03 | +0.03 | 2.84 |
| Tingalpa Creek (Mouth) | 27 28 | 153 13 | +0 02 | +0 06 | 2.34 | 1.92 | 0.82 | 0.40 | 1.29 | 1.08 | 0.00 | 2.95 | |
| Wellington Point | 27 28 | 153 14 | -0 06 | -0 03 | 2.26 | 1.85 | 0.79 | 0.38 | 1.33 | 1.26 | 1.04 | 0.00 | 2.84 |
| Lota | 27 28 | 153 11 | +0 02 | +0 07 | 2.24 | 1.83 | 0.78 | 0.38 | 1.29 | 1.27 | 1.03 | 0.00 | 2.81 |
| Huybers Light | 27 27 | 153 15 | +0 12 | +0 03 | 2.17 | 1.78 | 0.76 | 0.37 | | 1.26 | 1.00 | 0.00 | 2.73 |
| Manly | 27 27 | 153 11 | +0 02 | +0 07 | 2.24 | 1.83 | 0.78 | 0.38 | 1.29 | 1.27 | 1.03 | 0.00 | 2.81 |
| D'Arcy Light | 27 26 | 153 12 | +0 02 | +0 07 | 2.17 | 1.78 | 0.76 | 0.37 | | 1.26 | 1.00 | 0.00 | 2.73 |
| Rous Light | 27 24 | 153 20 | +0 09 | +0 06 | 2.17 | 1.78 | 0.76 | 0.37 | | 1.21 | 1.00 | 0.00 | 2.73 |
| Amity Point | 27 24 | 153 26 | -0 40 | -0 54 | 1.78 | 1.46 | 0.62 | 0.30 | 1.02 | 1.09 | 0.82 | 0.00 | 2.24 |
| Saint Helena (South) | 27 24 | 153 13 | +0 00 | +0 00 | 2.28 | 1.87 | 0.80 | 0.39 | | 1.32 | 1.05 | 0.00 | 2.87 |
| Nudgee Beach | 27 21 | 153 06 | +0 01 | -0 01 | 2.08 | 1.71 | 0.73 | 0.36 | 1.31 | 1.19 | 0.96 | 0.00 | 2.62 |
| Cabbage Tree Creek (Mouth) | 27 20 | 153 06 | +0 01 | -0 01 | 2.08 | 1.71 | 0.73 | 0.36 | 1.31 | 1.19 | 0.96 | 0.00 | 2.62 |
| Shorncliffe and Sandgate | 27 20 | 153 05 | +0 01 | -0 01 | 2.08 | 1.71 | 0.73 | 0.36 | 1.31 | 1.19 | 0.96 | 0.00 | 2.62 |
| Woody Point | 27 16 | 153 06 | +0 00 | +0 02 | 2.06 | 1.69 | 0.72 | 0.35 | 1.23 | 1.15 | 0.95 | 0.00 | 2.59 |
| Measured Mile-Rear Recip. Lead | 27 15 | 153 15 | -0 25 | -0 23 | 2.04 | 1.67 | 0.71 | 0.35 | | 1.14 | 0.94 | 0.00 | 2.57 |
| Margate | 27 15 | 153 07 | +0 00 | +0 02 | 2.06 | 1.69 | 0.72 | 0.35 | 1.23 | 1.15 | 0.95 | 0.00 | 2.59 |
| Redcliffe | 27 14 | 153 07 | +0 00 | +0 00 | 2.08 | 1.71 | 0.73 | 0.36 | | 1.11 | 0.96 | 0.00 | 2.62 |
| East Channel | 27 14 | 153 20 | -0 09 | -0 13 | 2.06 | 1.69 | 0.72 | 0.35 | | 1.20 | 0.95 | 0.00 | 2.59 |
| Scarborough Boat Harbour | 27 12 | 153 06 | +0 05 | +0 05 | 1.93 | 1.58 | 0.68 | 0.33 | 1.17 | 1.11 | 0.89 | 0.00 | 2.43 |
| Tangalooma | 27 11 | 153 22 | -0 23 | -0 27 | 2.00 | 1.65 | 0.73 | 0.38 | | 1.15 | 0.90 | +0.05 | 2.51 |
| Beachmere(Caboolture River) | 27 08 | 153 02 | +0 06 | +0 18 | 2.08 | 1.71 | 0.73 | 0.36 | 1.26 | 1.21 | 0.96 | 0.00 | 2.62 |
| Bulwer Wrecks | 27 05 | 153 22 | -0 25 | -0 30 | 1.76 | 1.44 | 0.62 | 0.30 | | 1.02 | 0.81 | 0.00 | 2.21 |
| North West Channel Fairway | 26 51 | 153 09 | -1 30 | -1 40 | 1.63 | 1.34 | 0.57 | 0.28 | 0.99 | 0.95 | 0.75 | 0.00 | 2.05 |
| North Pine River - | | | | | | | | | | | | | |
| Deepwater Bend | 27 18 | 153 02 | +0 13 | +0 41 | 2.17 | 1.78 | 0.78 | 0.40 | 1.24 | 1.28 | 0.98 | +0.04 | 2.72 |
| Petrie | 27 17 | 152 58 | +0 24 | +0 52 | 2.26 | 1.85 | 0.79 | 0.38 | 1.26 | 1.27 | 1.04 | 0.00 | 2.84 |
| Pumicestone Passage-Bribie | | | | | | | | | | | | | |
| Bribie Beacon (South Point) | 27 06 | 153 09 | -0 09 | -0 13 | 1.91 | 1.57 | 0.69 | 0.36 | | 1.09 | 0.86 | +0.04 | 2.39 |
| Bongaree | 27 05 | 153 09 | +0 00 | -0 15 | 1.87 | 1.53 | 0.65 | 0.32 | 1.10 | 1.06 | 0.86 | 0.00 | 2.35 |
| Woorim | 27 05 | 153 12 | -0 22 | -0 34 | 1.71 | 1.41 | 0.60 | 0.29 | | 0.93 | 0.79 | 0.00 | 2.16 |
| Toorbul | 27 02 | 153 06 | +0 30 | +0 20 | 1.95 | 1.60 | 0.68 | 0.33 | 1.10 | 1.13 | 0.90 | 0.00 | 2.46 |
| Donnybrook | 27 00 | 153 04 | +1 00 | +0 56 | 1.88 | 1.55 | 0.69 | 0.35 | 1.12 | 1.11 | 0.85 | +0.04 | 2.36 |
| Hussey Creek (Mouth) | 26 56 | 153 04 | +2 04 | +2 56 | 1.35 | 1.04 | 0.40 | 0.32 | | | | | 1.80 |
| The Skids | 26 54 | 153 04 | +1 48 | +2 05 | 0.98 | 0.66 | 0.28 | 0.14 | 0.41 | 0.51 | | | 1.38 |
| Halls Creek (Mouth) 'The Farm' | 26 52 | 153 07 | +0 47 | +1 33 | 0.87 | 0.62 | | | 0.46 | 0.59 | | | 1.21 |
| Golden Beach (Caloundra) | 26 48 | 153 07 | -0 53 | -0 11 | 1.12 | 0.82 | 0.43 | 0.32 | 0.66 | 0.77 | | | 1.52 |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude South | Longitude East | Time Difference | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT |
|-------------------------------|-------------------|-------------------|-----------------|----------------|----------------|------|------|-------|------|-------|------|-------|
| | | | | HW 1 H M | LW 2 H M | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
| | | | | | | m | m | m | m | m | m | m |
| Tidal Datum Epoch 1992 - 2011 | | | | | | | | | | | | |
| Mooloolaba | 26 41 | 153 08 | Standard Port | 1.66 | 1.33 | 0.58 | 0.26 | 0.990 | 0.96 | 1.00 | 0.00 | 2.17 |
| Caloundra Head | 26 48 | 153 09 | +0 00 | +0 00 | 1.63 | 1.34 | 0.57 | 0.28 | 0.99 | 0.95 | | 2.05 |
| Parrearra (Mooloolah River) | 26 43 | 153 07 | +0 23 | +0 44 | 1.67 | 1.23 | 0.55 | 0.20 | 0.93 | | 0.94 | 0.00 |
| Mooloolaba Beach | 26 41 | 153 06 | +0 00 | +0 00 | 1.66 | 1.33 | 0.58 | 0.26 | 0.99 | 0.97 | 1.00 | 0.00 |
| Maroochydore Beach | 26 40 | 153 06 | +0 00 | +0 00 | 1.66 | 1.33 | 0.58 | 0.26 | 0.99 | 0.97 | 1.00 | 0.00 |
| Coolum | 26 31 | 153 06 | +0 00 | +0 00 | 1.66 | 1.33 | 0.58 | 0.26 | 0.99 | 0.97 | 1.00 | 0.00 |
| Maroochy River - | | | | | | | | | | | | |
| Picnic Point | 26 39 | 153 05 | +1 02 | +1 52 | 0.93 | 0.65 | 0.27 | 0.13 | 0.46 | 0.52 | | 1.36 |
| David Low Bridge | 26 38 | 153 03 | +1 35 | +2 27 | 0.90 | 0.66 | 0.30 | 0.19 | 0.44 | 0.53 | | 1.28 |
| Dunethin Rock | 26 35 | 153 02 | +2 09 | +3 06 | 1.03 | 0.78 | 0.28 | 0.15 | 0.44 | 0.53 | | 1.41 |
| Junction North Maroochy River | 26 34 | 152 58 | +2 18 | +3 12 | 1.15 | 0.88 | 0.34 | 0.22 | 0.49 | 0.60 | | 1.57 |
| Noosa Head | 26 23 | 153 06 | Standard Port | 1.78 | 1.45 | 0.71 | 0.38 | 1.123 | 1.08 | 1.00 | 0.00 | 2.28 |
| Noosa River - | | | | | | | | | | | | |
| Munna Point | 26 24 | 153 04 | +0 42 | +1 35 | 0.78 | 0.65 | 0.29 | 0.17 | 0.42 | 0.45 | 0.40 | +0.13 |
| Tewantin | 26 24 | 153 02 | +1 07 | +1 49 | 0.61 | 0.53 | 0.28 | 0.20 | 0.34 | 0.38 | 0.31 | +0.09 |
| Noosa Beaches - | | | | | | | | | | | | |
| Noosa Beach | 26 23 | 153 05 | +0 00 | +0 00 | 1.78 | 1.45 | 0.71 | 0.38 | 1.12 | 1.06 | 1.00 | 0.00 |
| Teewah Sands | 26 16 | 153 04 | +0 00 | +0 00 | 1.78 | 1.45 | 0.71 | 0.38 | 1.12 | 1.06 | 1.00 | 0.00 |
| Cooloola | 26 11 | 153 04 | +0 00 | +0 00 | 1.78 | 1.45 | 0.71 | 0.38 | 1.12 | 1.06 | 1.00 | 0.00 |
| Double Island Point | 25 55 | 153 11 | +0 00 | +0 00 | 1.78 | 1.45 | 0.71 | 0.38 | 1.12 | 1.06 | 1.00 | 0.00 |
| Rainbow Beach | 25 54 | 153 05 | +0 00 | +0 00 | 1.78 | 1.45 | 0.71 | 0.38 | 1.12 | 1.06 | 1.00 | 0.00 |
| Waddy Point (Fraser Island) | 24 58 | 153 21 | Standard Port | 1.75 | 1.45 | 0.81 | 0.50 | 1.007 | 1.13 | 1.00 | 0.00 | 2.37 |
| Wide Bay Bar (Ocean Side) | 25 49 | 153 03 | +0 00 | +0 00 | | | | | | | | |
| Eurong | 25 30 | 153 07 | +0 00 | +0 00 | | | | | | | | |
| Happy Valley | 25 20 | 153 12 | +0 00 | +0 00 | | | | | | | | |
| Indian Head | 25 00 | 153 22 | +0 00 | +0 00 | | | | | | | | |
| Orchid Beach | 24 58 | 153 19 | +0 00 | +0 00 | | | | | | | | |
| Urangan | 25 18 | 152 55 | Standard Port | 3.49 | 2.80 | 1.38 | 0.68 | 2.040 | 2.09 | 1.00 | 0.00 | 4.28 |
| Kingfisher Bay | 25 24 | 153 06 | +0 11 | +0 18 | 3.73 | 3.00 | 1.48 | 0.73 | | 2.26 | 1.07 | 0.00 |
| Bundaberg (Burnett Heads) | 24 46 | 152 23 | Standard Port | 2.88 | 2.30 | 1.14 | 0.56 | 1.693 | 1.72 | 1.00 | 0.00 | 3.67 |
| Great Sandy Strait - | | | | | | | | | | | | |
| Tin Can Bay (Snapper Creek) | 25 54 | 153 00 | +0 44 | -0 16 | 2.31 | 1.84 | 0.91 | 0.45 | 1.36 | 1.36 | 0.80 | 0.00 |
| Elbow Point | 25 48 | 153 01 | +0 15 | -0 03 | 2.14 | 1.71 | 0.85 | 0.42 | | 1.28 | 0.74 | 0.01 |
| Snout Point | 25 42 | 152 59 | +0 55 | +0 29 | 2.34 | 1.86 | 0.92 | 0.45 | | 1.39 | 0.81 | 0.00 |
| Big Tuan | 25 41 | 152 53 | +0 55 | +1 05 | 2.16 | 1.73 | 0.86 | 0.42 | 1.19 | 1.37 | 0.75 | 0.00 |
| Boonooroo | 25 39 | 152 54 | +0 55 | +1 05 | 2.16 | 1.73 | 0.86 | 0.42 | 1.19 | 1.37 | 0.75 | 0.00 |
| Boonlye Point | 25 34 | 152 56 | +1 09 | +0 57 | 3.14 | 2.51 | 1.24 | 0.61 | | 1.89 | 1.09 | 0.00 |
| Ungowa Jetty | 25 30 | 152 59 | +0 51 | +0 49 | 3.83 | 3.06 | 1.52 | 0.74 | | 2.39 | 1.33 | 0.00 |
| Mary River - | | | | | | | | | | | | |
| Bingham (River Heads) | 25 26 | 152 55 | +1 13 | +1 11 | 3.70 | 3.05 | 1.19 | 0.64 | 2.17 | | | 4.60 |
| Baumgarts | 25 30 | 152 44 | +2 00 | +3 10 | 3.30 | 2.56 | 0.62 | 0.31 | 1.49 | | | 4.39 |
| Maryborough | 25 33 | 152 43 | +1 57 | +3 00 | 3.22 | 2.55 | 0.53 | 0.14 | 1.40 | | | 4.10 |
| Copenhagen Bend | 25 31 | 152 39 | +2 46 | +3 53 | 3.24 | 2.50 | 0.37 | 0.22 | 1.22 | | | 4.22 |
| Barrage | 25 37 | 152 37 | +3 03 | +5 09 | 2.92 | 2.24 | 0.18 | 0.09 | 0.86 | | | 3.79 |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude South | Longitude East | Time Difference | | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT | | |
|--------------------------------------|-------------------|-------------------|-----------------|-------|------|------|------|------|-------|------|-------|-------|------|--|--|
| | | | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | | |
| | | | H M | H M | m | m | m | m | m | m | m | m | mm | | |
| Tidal Datum Epoch 1992 - 2011 | | | | | | | | | | | | | | | |
| Bundaberg (Burnett Heads) cont. | | | | | | | | | | | | | | | |
| Hervey Bay - | | | | | | | | | | | | | | | |
| Point Vernon | 25 15 | 152 48 | -0 10 | -0 10 | 3.23 | 2.58 | 1.28 | 0.63 | 1.89 | 1.90 | 1.12 | 0.00 | 4.11 | | |
| Burrum Heads | 25 11 | 152 37 | +0 12 | +0 30 | 3.05 | 2.42 | 1.17 | 0.54 | 1.82 | 1.78 | 1.08 | -0.06 | 3.90 | | |
| Woodgate (Theodolite Creek) | 25 04 | 152 33 | -0 15 | -0 15 | 3.06 | 2.44 | 1.21 | 0.59 | 1.77 | 1.78 | 1.06 | 0.00 | 3.89 | | |
| Wathumba Creek (Fraser Island) | 24 58 | 153 14 | -0 12 | +0 36 | 3.03 | 2.43 | 1.18 | 0.55 | 1.86 | 1.06 | 0.00 | 3.88 | | | |
| Elliott River Entrance | 24 55 | 152 30 | -0 09 | -0 09 | 2.96 | 2.35 | 1.13 | 0.52 | 1.70 | 1.73 | 1.05 | -0.07 | 3.78 | | |
| Burnett River (Town Reach) | 24 52 | 152 21 | +0 32 | +0 57 | 3.17 | 2.53 | 1.25 | 0.62 | 1.79 | 1.83 | 1.10 | 0.00 | 4.04 | | |
| Bargara | 24 49 | 152 27 | +0 00 | +0 00 | 2.88 | 2.30 | 1.14 | 0.56 | 1.69 | 1.73 | 1.00 | 0.00 | 3.67 | | |
| Kolan River (Booyan Bridge) | 24 42 | 152 11 | +0 23 | +1 30 | 2.60 | 2.02 | 0.86 | 0.66 | 1.31 | 1.51 | 0.89 | 0.00 | 3.37 | | |
| Baffle Creek (Winfield) | 24 32 | 152 02 | +1 05 | +1 56 | 2.22 | 1.74 | 1.02 | 1.02 | 1.32 | 1.56 | | | 2.83 | | |
| Lady Elliot Island | 24 07 | 152 43 | -0 21 | -0 21 | 2.07 | 1.64 | 0.78 | 0.35 | | 1.19 | 0.74 | -0.06 | 2.67 | | |
| Gladstone | 23 50 | 151 15 | Standard Port | | 3.96 | 3.11 | 1.57 | 0.72 | 2.268 | 2.34 | 1.00 | 0.00 | 4.83 | | |
| Seventeen Seventy | 24 11 | 151 53 | -0 35 | -0 22 | 2.79 | 2.20 | 1.12 | 0.52 | 1.61 | 1.60 | 0.70 | 0.00 | 3.58 | | |
| Pancake Creek | 24 01 | 151 44 | -0 35 | -0 35 | 2.97 | 2.33 | 1.18 | 0.54 | | 1.74 | 0.75 | 0.00 | 3.62 | | |
| Clews Point | 24 01 | 151 45 | -0 45 | -0 45 | 2.9 | 2.2 | 1.1 | 0.4 | | 1.64 | | | 3.5 | | |
| Lady Musgrave Island | 23 55 | 152 23 | -0 52 | -0 52 | 2.2 | 1.7 | 0.9 | 0.4 | | 1.30 | | | 2.9 | | |
| Gatcombe Head | 23 53 | 151 22 | -0 17 | -0 16 | 3.45 | 2.71 | 1.37 | 0.56 | | 2.08 | 0.87 | 0.00 | 4.29 | | |
| South Trees Wharf | 23 51 | 151 19 | -0 11 | -0 10 | 3.80 | 2.99 | 1.51 | 0.69 | 2.21 | 2.20 | 0.96 | 0.00 | 4.63 | | |
| Fishermans Landing | 23 47 | 151 11 | +0 15 | +0 12 | 4.20 | 3.30 | 1.66 | 0.76 | 2.43 | 2.41 | 1.06 | 0.00 | 5.12 | | |
| Graham Creek | 23 45 | 151 11 | +0 19 | +0 10 | 4.34 | 3.41 | 1.72 | 0.79 | 2.55 | 2.58 | 1.10 | 0.00 | 5.30 | | |
| The Narrows (Boat Creek) | 23 39 | 151 06 | +0 31 | +0 26 | 4.58 | 3.59 | 1.79 | 0.79 | | 2.68 | 1.17 | -0.05 | 5.60 | | |
| The Narrows (Ramsay Crossing) | 23 38 | 151 05 | +0 19 | +0 22 | 5.08 | 4.01 | 2.07 | 1.00 | | 3.01 | 1.26 | 0.09 | 6.17 | | |
| Sea Hill | 23 30 | 150 59 | -0 01 | -0 07 | 4.47 | 3.51 | 1.77 | 0.81 | | 2.63 | 1.13 | 0.00 | 5.45 | | |
| Polmaise Reef | 23 34 | 151 39 | -0 29 | -0 29 | 3.0 | 2.3 | 1.1 | 0.4 | | 1.71 | | | 3.7 | | |
| Heron Island | 23 27 | 151 55 | -0 33 | -0 33 | 2.69 | 2.09 | 0.99 | 0.39 | | 1.46 | 0.71 | -0.12 | 3.31 | | |
| Rockhampton | 23 23 | 150 31 | +1 23 | +2 31 | 5.18 | 4.16 | 1.63 | 0.95 | 2.52 | 2.86 | | | 6.42 | | |
| Tryon Island | 23 14 | 151 46 | -0 18 | -0 18 | 2.9 | 2.2 | 1.1 | 0.4 | | 1.63 | | | 3.6 | | |
| Great Keppel Island | 23 11 | 150 56 | +0 05 | +0 03 | 4.16 | 3.27 | 1.65 | 0.76 | | 2.43 | 1.05 | 0.00 | 5.07 | | |
| Cape Manifold | 22 41 | 150 50 | +0 17 | +0 29 | 4.36 | 3.42 | 1.73 | 0.79 | | 2.52 | 1.10 | 0.00 | 5.31 | | |
| Port Clinton | 22 32 | 150 45 | +0 34 | +0 34 | 4.3 | 3.3 | 1.6 | 0.5 | | 2.44 | | | 5.2 | | |
| Gannet Cay | 21 59 | 152 28 | -0 09 | -0 09 | 2.1 | 1.6 | 0.8 | 0.4 | | 1.23 | | | 2.8 | | |
| Port Alma | 23 35 | 150 52 | Standard Port | | 4.93 | 3.83 | 1.98 | 0.88 | 2.854 | 2.90 | 1.00 | 0.00 | 5.98 | | |
| Rosslyn Bay | 23 10 | 150 48 | Standard Port | | 4.23 | 3.24 | 1.60 | 0.62 | 2.360 | 2.42 | 1.00 | 0.00 | 5.14 | | |
| Hay Point | 21 16 | 149 18 | Standard Port | | 5.80 | 4.48 | 2.25 | 0.94 | 3.340 | 3.37 | 1.00 | 0.00 | 7.14 | | |
| Marquis Island | 22 20 | 150 27 | -0 26 | -0 26 | 6.5 | 5.0 | 2.5 | 1.0 | | 3.73 | | | 7.5 | | |
| McEwen Islet | 22 09 | 149 36 | +0 24 | +0 24 | 7.4 | 5.6 | 2.6 | 0.8 | | 4.13 | | | 9.1 | | |
| High Peak Island | 21 57 | 150 41 | -0 45 | -0 45 | 4.8 | 3.7 | 1.8 | 0.7 | | 2.75 | | | 5.9 | | |
| Bell Cay | 21 49 | 151 15 | -0 58 | -0 58 | 3.6 | 2.7 | 1.3 | 0.4 | | 2.00 | | | 4.3 | | |
| Middle Island (Percy Isles) | 21 39 | 150 15 | -0 27 | -0 27 | 5.67 | 4.42 | 2.30 | 1.05 | | 3.34 | 0.95 | 0.16 | 6.94 | | |
| Cullen Islet | 21 25 | 149 29 | -0 03 | -0 03 | 6.09 | 4.70 | 2.36 | 0.99 | | 3.51 | 1.05 | 0.00 | 7.50 | | |
| Penrith Island | 21 00 | 149 54 | -0 07 | -0 07 | 4.6 | 3.5 | 1.6 | 0.5 | | 2.56 | | | 5.6 | | |
| Scawfell Island | 20 52 | 149 37 | -0 04 | -0 04 | 4.4 | 3.4 | 1.7 | 0.6 | | 2.51 | | | 5.4 | | |
| Mackay Outer Harbour | 21 06 | 149 14 | Standard Port | | 5.29 | 4.07 | 1.96 | 0.74 | 2.941 | 3.02 | 1.00 | 0.00 | 6.58 | | |
| Thirsty Sound | 22 08 | 150 02 | -0 26 | -0 37 | 6.08 | 4.68 | 2.25 | 0.85 | | 3.45 | 1.15 | 0.00 | 7.57 | | |
| Keswick Island | 20 55 | 149 26 | -0 03 | +0 04 | 4.71 | 3.62 | 1.74 | 0.66 | | 2.69 | 0.89 | 0.00 | 5.86 | | |
| Halliday Bay | 20 54 | 148 59 | +0 09 | +0 23 | 5.03 | 3.73 | 1.69 | 0.56 | 2.63 | 2.65 | 0.92 | 0.00 | 6.14 | | |
| Finlayson Point | 20 53 | 148 56 | +0 20 | +0 20 | 5.40 | 4.15 | 2.00 | 0.75 | | 3.07 | 1.02 | 0.00 | 6.71 | | |
| Carlisle Island | 20 47 | 149 17 | +0 02 | -0 02 | 4.44 | 3.42 | 1.65 | 0.62 | | 2.53 | 0.84 | 0.00 | 5.53 | | |
| Laguna Quays Marina | 20 36 | 148 40 | +0 30 | +0 25 | 4.74 | 3.74 | 1.87 | 0.88 | 2.81 | 2.74 | 0.91 | +0.02 | 6.30 | | |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude South | Longitude East | Time Difference | | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT |
|-------------------------------|-------------------|-------------------|-----------------|-------|------|------|------|------|-------|------|-------|-------|------|
| | | | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Tidal Datum Epoch 1992 - 2011 | | | | | H M | H M | m | m | m | m | m | m | m |
| Bugatti Reef | 20 05 | 150 18 | Standard Port | | 2.6 | 2.0 | 1.1 | 0.5 | | 1.56 | | | 3.5 |
| Rib Reef | 18 28 | 146 52 | -0 45 | -0 45 | 2.8 | 1.9 | 1.4 | 0.6 | | 1.68 | | | 3.6 |
| Cato Island | 23 15 | 155 32 | -2 03 | -2 03 | 1.6 | 1.3 | 0.7 | 0.3 | | 0.99 | | | 2.2 |
| Creal Reef | 20 32 | 150 22 | +0 20 | +0 20 | 3.2 | 2.5 | 1.1 | 0.4 | | 1.80 | | | 4.1 |
| Shute Harbour | 20 17 | 148 47 | Standard Port | | 3.30 | 2.57 | 1.27 | 0.54 | 1.907 | 1.92 | 1.00 | 0.00 | 4.33 |
| East Repulse Island | 20 35 | 148 53 | +0 15 | +0 15 | 4.5 | 3.5 | 1.7 | 0.8 | | 2.64 | | | 5.7 |
| Lindeman Island | 20 28 | 149 03 | +0 06 | +0 08 | 3.78 | 2.95 | 1.49 | 0.66 | | 2.32 | 1.13 | +0.05 | 4.94 |
| Hamilton Island | 20 21 | 148 57 | +0 02 | +0 02 | 3.80 | 2.97 | 1.51 | 0.68 | | 2.10 | 1.13 | +0.07 | 4.96 |
| Abel Point (Airlie Beach) | 20 16 | 148 43 | -0 07 | -0 06 | 3.00 | 2.34 | 1.16 | 0.49 | 1.75 | 1.75 | 0.91 | 0.00 | 3.94 |
| Cid Harbour | 20 15 | 148 55 | -0 02 | -0 02 | 3.3 | 2.5 | 1.3 | 0.5 | | 1.87 | | | 4.2 |
| Double Bay | 20 11 | 148 38 | -0 20 | -0 20 | 3.0 | 2.4 | 1.2 | 0.6 | | 1.77 | | | 3.9 |
| Nara Inlet | 20 10 | 148 54 | -0 12 | -0 12 | 3.26 | 2.55 | 1.29 | 0.58 | | 1.89 | 0.97 | +0.06 | 4.26 |
| Hayman Island | 20 04 | 148 53 | -0 24 | -0 24 | 3.3 | 2.6 | 1.3 | 0.6 | | 1.93 | | | 4.3 |
| Hook Island | 20 04 | 148 56 | -0 13 | -0 13 | 2.9 | 2.3 | 1.1 | 0.5 | | 1.69 | | | 3.8 |
| Bowen | 20 01 | 148 15 | Standard Port | | 2.83 | 2.21 | 1.31 | 0.67 | 1.78 | 1.76 | 1.00 | 0.00 | 3.73 |
| Abbot Point | 19 51 | 148 05 | Standard Port | | 2.70 | 2.07 | 1.30 | 0.67 | 1.626 | 1.69 | 1.00 | 0.00 | 3.60 |
| Oyster Rocks (Burdekin River) | 19 44 | 147 35 | -0 03 | +0 32 | 2.54 | 1.95 | 1.22 | 0.63 | 1.47 | 1.59 | 0.94 | 0.00 | 3.38 |
| Cape Ferguson | 19 17 | 147 03 | Standard Port | | 2.89 | 2.09 | 1.49 | 0.67 | 1.69 | 1.76 | 1.00 | 0.00 | 3.84 |
| Townsville | 19 15 | 146 50 | Standard Port | | 3.11 | 2.26 | 1.63 | 0.77 | 1.856 | 1.94 | 1.00 | 0.00 | 4.11 |
| Rocky Ponds Creek | 19 50 | 147 39 | +0 58 | +1 14 | 2.47 | 1.93 | 1.23 | 0.70 | 1.41 | 1.50 | | | 3.38 |
| Cape Ferguson | 19 17 | 147 03 | +0 00 | -0 01 | 2.89 | 2.09 | 1.49 | 0.67 | 1.69 | 1.76 | 0.95 | -0.06 | 3.84 |
| Cape Pallarenda | 19 11 | 146 47 | +0 02 | +0 03 | 3.10 | 2.24 | 1.61 | 0.75 | 1.88 | | 1.01 | 0.00 | 4.10 |
| Magnetic Island | 19 09 | 146 52 | +0 06 | +0 02 | 3.01 | 2.17 | 1.57 | 0.75 | 1.84 | 1.91 | 0.96 | 0.00 | 3.98 |
| Townsville Fairway Beacon | 19 08 | 146 54 | -0 04 | -0 06 | 2.99 | 2.17 | 1.56 | 0.74 | | 1.86 | 0.96 | 0.00 | 3.95 |
| Britomart Reef | 18 15 | 146 43 | -0 15 | -0 20 | 2.67 | 1.94 | 1.40 | 0.66 | | 1.69 | 0.86 | 0.00 | 3.53 |
| Goold Island | 18 10 | 146 09 | -0 02 | -0 02 | 2.9 | 2.2 | 1.6 | 0.8 | | 1.88 | | | 3.8 |
| Dunk Island | 17 56 | 146 08 | -0 02 | -0 02 | 2.8 | 2.1 | 1.5 | 0.8 | | 1.79 | | | 3.6 |
| Flinders Reef | 17 43 | 148 27 | -0 25 | -0 15 | 2.31 | 1.72 | 1.28 | 0.69 | | 1.48 | 0.69 | +0.16 | 3.00 |
| Lucinda (Offshore) | 18 31 | 146 23 | Standard Port | | 2.98 | 2.18 | 1.60 | 0.80 | 1.844 | 1.89 | 1.00 | 0.00 | 3.96 |
| Albino Rock | 18 47 | 146 43 | +0 01 | +0 01 | 2.7 | 1.9 | 1.3 | 0.5 | | 1.56 | | | 3.5 |
| Cardwell | 18 16 | 146 02 | +0 01 | -0 05 | 3.14 | 2.28 | 1.68 | 0.81 | 1.86 | 1.94 | 1.06 | 0.00 | 4.13 |
| Clump Point | 17 51 | 146 06 | Standard Port | | 2.72 | 2.01 | 1.49 | 0.79 | 1.68 | 1.73 | 1.00 | 0.00 | 3.62 |
| Mourilyan Harbour | 17 36 | 146 07 | Standard Port | | 2.65 | 1.98 | 1.49 | 0.83 | 1.729 | 1.74 | 1.00 | 0.00 | 3.50 |
| Nathan Reef | 17 32 | 146 30 | -0 07 | -0 04 | 2.39 | 1.78 | 1.34 | 0.74 | | 1.61 | 0.90 | 0.00 | 3.15 |
| Innisfail | 17 31 | 146 02 | +0 25 | +0 55 | 1.97 | 1.31 | 1.12 | 0.83 | 0.96 | 1.06 | 0.98 | -0.63 | 2.80 |
| Flying Fish Point | 17 30 | 146 05 | +0 05 | +0 15 | 2.62 | 1.96 | 1.48 | 0.82 | 1.63 | 1.69 | 0.99 | 0.00 | 3.47 |
| Pearl Reef | 17 29 | 146 25 | -0 08 | -0 02 | 2.51 | 1.86 | 1.49 | 0.83 | | 1.64 | 0.95 | 0.00 | 3.47 |
| Cairns | 16 56 | 145 47 | Standard Port | | 2.62 | 1.94 | 1.46 | 0.78 | 1.643 | 1.70 | 1.00 | 0.00 | 3.50 |
| Saxon Reef | 16 28 | 145 59 | +0 17 | +0 11 | 2.30 | 1.70 | 1.28 | 0.68 | | 0.88 | 0.00 | | 3.08 |
| Low Islets | 16 23 | 145 34 | +0 00 | +0 00 | 2.37 | 1.83 | 1.34 | 0.81 | | 1.55 | 0.93 | 0.00 | 3.25 |
| Cooktown | 15 28 | 145 15 | -0 02 | +0 06 | 2.40 | 1.77 | 1.32 | 0.71 | 1.48 | 1.49 | 0.92 | 0.00 | 3.20 |
| Cape Flattery | 14 57 | 145 19 | -0 10 | -0 10 | 2.38 | 1.71 | 1.32 | 0.65 | | 1.48 | 0.89 | 0.00 | 3.08 |
| Morris Island | 13 29 | 143 42 | +0 14 | +0 14 | 2.5 | 1.8 | 1.4 | 0.7 | | 1.58 | | | 3.3 |
| Portland Roads | 12 36 | 143 25 | +0 19 | +0 08 | 2.62 | 1.94 | 1.46 | 0.78 | | 1.63 | 1.00 | 0.00 | 3.50 |
| Cape Grenville | 11 58 | 143 16 | +0 51 | +0 51 | 2.6 | 1.8 | 1.3 | 0.5 | | 1.53 | | | 3.3 |

Semidiurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude | Longitude | Time Difference | | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT | | |
|-------------------------------|----------|-----------|-----------------|-------|------|------|------|------|-------|------|-------|------|------|-----|----|
| | South | East | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Tidal Datum Epoch 1992 - 2011 | | | H M | H M | m | m | m | m | m | m | m | m | m | m | m |
| Port Douglas | 16 29 | 145 28 | Standard Port | | 2.49 | 1.83 | 1.37 | 0.70 | 1.581 | 1.60 | 1.00 | 0.00 | 3.36 | | |
| Leggatt Island | 14 32 | 144 51 | Standard Port | | | | | | | | 1.70 | 1.00 | 0.00 | 3.4 | |
| Normanby River | 14 26 | 144 09 | +0 05 | +0 05 | 2.5 | 1.6 | 1.2 | 0.3 | | | 1.39 | | | 3.4 | |
| Flinders Island | 14 10 | 144 14 | +0 11 | +0 11 | 2.5 | 1.7 | 1.4 | 0.6 | | | 1.52 | | | 3.3 | |
| Eden Reef | 14 04 | 143 54 | -0 10 | -0 10 | 2.8 | 2.0 | 1.5 | 0.7 | | | 1.77 | | | 3.6 | |
| Pelican Island | 13 55 | 143 50 | +0 07 | +0 07 | 3.0 | 2.2 | 1.7 | 0.9 | | | 1.93 | | | 3.9 | |
| Fife Island | 13 39 | 143 43 | +0 03 | +0 03 | 2.6 | 1.8 | 1.4 | 0.7 | | | 1.63 | | | 3.3 | |
| Round Point | 11 54 | 143 06 | +0 42 | +0 42 | 2.8 | 1.9 | 1.4 | 0.5 | | | 1.67 | | | 3.6 | |
| Hannibal Islands | 11 36 | 142 56 | +0 56 | +0 56 | 3.0 | 2.1 | 1.5 | 0.6 | | | 1.78 | | | 3.8 | |
| Collette Reef | 11 14 | 142 56 | +0 34 | +0 34 | 2.7 | 1.9 | 1.3 | 0.5 | | | 1.60 | | | 3.5 | |

The secondary place time differences and tidal planes are based on short observation sets and are updated as new observations become available.

Diurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude | Longitude | Time Difference | | MHHW | MLHW | MHLW | MLLW | AHD | MSL | Ratio | Cons | HAT | | |
|-------------------------------|----------|-----------|-----------------|-------|------|------|------|------|-------|------|-------|------|-------|------|------|
| | South | East | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Tidal Datum Epoch 1992 - 2011 | | | H M | H M | m | m | m | m | m | m | m | m | m | m | m |
| Shute Harbour | 20 17 | 148 47 | Standard Port | | | | | | | | 1.907 | 1.92 | 1.00 | 0.00 | 4.33 |
| Molle Island | 20 15 | 148 50 | -0 01 | -0 01 | 3.5 | 2.2 | 1.5 | 0.2 | | | | 1.81 | | | 4.1 |
| Bugatti Reef | 20 05 | 150 18 | Standard Port | | | | | | | | 1.56 | 1.00 | 0.00 | 3.5 | |
| Pith Reef | 18 13 | 147 01 | -0 59 | -0 59 | 2.6 | 1.6 | 1.5 | 0.5 | | | 1.55 | | | 3.3 | |
| Mellish Reef | 17 25 | 155 52 | -1 43 | -1 43 | 1.5 | 0.9 | 0.8 | 0.2 | | | 0.85 | | | 1.7 | |
| Willis Island | 16 13 | 150 01 | -1 06 | -1 06 | 2.2 | 1.3 | 1.3 | 0.5 | | | 1.32 | | | 2.7 | |
| Townsville | 19 15 | 146 50 | Standard Port | | | | | | | | 1.856 | 1.94 | 1.00 | 0.00 | 4.11 |
| Unnamed Reef No2 | 19 37 | 149 50 | -0 03 | -0 03 | 2.5 | 1.6 | 1.3 | 0.4 | | | 1.48 | | | 3.2 | |
| Jaguar Reef | 18 59 | 148 25 | -0 13 | -0 13 | 2.4 | 1.5 | 1.3 | 0.4 | | | 1.36 | | | 2.9 | |
| Shrimp Reef | 18 56 | 148 04 | -0 04 | -0 04 | 2.5 | 1.5 | 1.3 | 0.3 | | | 1.41 | | | 3.0 | |
| John Brewer Reef | 18 38 | 147 03 | +0 04 | +0 04 | 2.5 | 1.6 | 1.4 | 0.4 | | | 1.48 | | | 3.4 | |
| Unnamed Reef No1 | 17 52 | 146 43 | -0 08 | -0 08 | 2.6 | 1.7 | 1.5 | 0.5 | | | 1.58 | | | 3.3 | |
| Mourilyan Harbour | 17 36 | 146 07 | Standard Port | | 2.79 | 1.85 | 1.63 | 0.69 | 1.729 | 1.74 | 1.00 | 0.00 | 3.50 | | |
| South Barnard Island | 17 44 | 146 09 | -0 05 | -0 05 | 2.7 | 1.7 | 1.5 | 0.6 | | | 1.62 | | | 3.4 | |
| Cairns | 16 56 | 145 47 | Standard Port | | 2.74 | 1.81 | 1.58 | 0.65 | 1.643 | 1.70 | 1.00 | 0.00 | 3.50 | | |
| Russell Island | 17 13 | 146 06 | -0 17 | -0 17 | 2.4 | 1.5 | 1.4 | 0.6 | | | 1.48 | | | 2.8 | |
| High Island | 17 10 | 146 00 | -0 10 | -0 10 | 2.6 | 1.7 | 1.5 | 0.6 | | | 1.59 | | | 3.2 | |
| Sudbury Cay | 16 57 | 146 08 | -0 06 | -0 06 | 2.6 | 1.6 | 1.5 | 0.6 | | | 1.57 | | | 3.0 | |
| Fitzroy Island | 16 55 | 146 00 | -0 09 | -0 09 | 2.6 | 1.6 | 1.5 | 0.5 | | | 1.57 | | | 3.2 | |
| Green Island | 16 45 | 145 58 | -0 05 | -0 05 | 2.5 | 1.6 | 1.4 | 0.6 | | | 1.54 | | | 3.1 | |
| Palm Cove | 16 44 | 145 40 | -0 07 | -0 07 | 2.5 | 1.6 | 1.4 | 0.5 | | | 1.52 | | | 3.1 | |
| Michaelmas Cay | 16 36 | 145 59 | -0 11 | -0 11 | 2.5 | 1.6 | 1.5 | 0.6 | | | 1.52 | | | 3.1 | |
| Bailay Creek | 16 12 | 145 27 | +0 16 | +0 16 | 2.2 | 1.3 | 1.2 | 0.3 | | | 1.27 | | | 2.6 | |
| Cape Bedford | 15 13 | 145 20 | +0 04 | +0 04 | 2.3 | 1.4 | 1.3 | 0.5 | | | 1.38 | | | 2.8 | |
| Low Wooded Isle | 15 05 | 145 23 | -0 04 | -0 04 | 2.5 | 1.5 | 1.5 | 0.4 | | | 1.47 | | | 3.0 | |
| Lizard Island | 14 39 | 145 27 | -0 09 | -0 09 | 2.31 | 1.50 | 1.30 | 0.50 | | | 1.40 | 0.87 | -0.07 | 2.98 | |

Diurnal Tidal Planes - 2019

Height above lowest astronomical tide

| Place | Latitude | Longitude | Time Difference | | MHHW | MLHW | MHLW | MLLW | AHD | MSL | Ratio | Cons | HAT |
|--------------------------------|----------|-----------|-----------------|-------|------|------|------|------|-------|------|-------|-------|------|
| | South | East | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | H M | H M | m | m | m | m | m | m | m | m | m |
| Tidal Datum Epoch 1992 - 2011 | | | | | | | | | | | | | |
| Port Douglas | 16 29 | 145 28 | Standard | Port | 2.62 | 1.70 | 1.49 | 0.58 | 1.581 | 1.60 | 1.00 | 0.00 | 3.36 |
| East Hope Island | 15 44 | 145 28 | -0 11 | -0 11 | 2.5 | 1.5 | 1.4 | 0.4 | | 1.47 | | | 3.1 |
| Leggatt Island | 14 32 | 144 51 | Standard | Port | 2.7 | 1.8 | 1.6 | 0.7 | | 1.70 | 1.00 | 0.00 | 3.4 |
| North Direction Island | 14 45 | 145 30 | -0 06 | -0 06 | 2.4 | 1.5 | 1.4 | 0.5 | | 1.44 | | | 3.0 |
| East Petherbridge Island | 14 44 | 145 06 | -0 01 | -0 01 | 2.6 | 1.6 | 1.5 | 0.6 | | 1.57 | | | 3.2 |
| Pipon Island | 14 07 | 144 30 | -0 02 | -0 02 | 2.5 | 1.5 | 1.4 | 0.5 | | 1.48 | | | 3.1 |
| Creech Reef | 13 38 | 144 05 | +0 01 | +0 01 | 2.5 | 1.5 | 1.5 | 0.5 | | 1.50 | | | 3.1 |
| Unnamed Reef No3 | 13 20 | 143 58 | -0 04 | -0 04 | 2.4 | 1.6 | 1.5 | 0.6 | | 1.51 | | | 3.1 |
| Suchen Reef | 13 18 | 143 47 | -0 01 | -0 01 | 2.5 | 1.6 | 1.5 | 0.6 | | 1.57 | | | 3.3 |
| Night Island | 13 11 | 143 34 | +0 01 | +0 01 | 2.5 | 1.6 | 1.4 | 0.5 | | 1.50 | | | 3.0 |
| Jubilee Reef | 13 10 | 143 46 | +0 00 | +0 00 | 2.5 | 1.6 | 1.5 | 0.6 | | 1.55 | | | 3.2 |
| Ham Reef | 13 02 | 143 52 | -0 07 | -0 07 | 2.3 | 1.5 | 1.4 | 0.5 | | 1.42 | | | 3.0 |
| Restoration Island | 12 38 | 143 27 | +0 12 | +0 12 | 2.4 | 1.4 | 1.3 | 0.4 | | 1.36 | | | 2.9 |
| Piper Island | 12 15 | 143 14 | +0 18 | +0 18 | 2.7 | 1.7 | 1.5 | 0.4 | | 1.58 | | | 3.3 |
| Sir Charles Hardy Island | 11 55 | 143 26 | +0 27 | +0 27 | 2.7 | 1.6 | 1.5 | 0.4 | | 1.57 | | | 3.3 |
| Raine Island | 11 36 | 144 03 | -0 10 | -0 10 | 2.3 | 1.4 | 1.4 | 0.5 | | 1.42 | | | 2.9 |
| Shadwell Reef | 11 27 | 143 46 | -0 01 | -0 01 | 2.3 | 1.4 | 1.2 | 0.3 | | 1.30 | | | 2.8 |
| Twin Island | 10 28 | 142 26 | Standard | Port | 2.97 | 1.97 | 1.51 | 0.51 | | 1.74 | 1.00 | 0.00 | 3.80 |
| Thursday Island | 10 35 | 142 13 | Standard | Port | 3.07 | 2.36 | 1.38 | 0.68 | 1.769 | 1.87 | 1.00 | 0.00 | 3.86 |
| Red Island Point (Bamaga) | 10 51 | 142 22 | +0 00 | +0 00 | 2.8 | 2.2 | 1.0 | 0.4 | | 1.56 | | | 3.2 |
| Goods Island | 10 34 | 142 09 | Standard | Port | 3.72 | 2.67 | 1.59 | 0.54 | | 2.13 | 1.00 | 0.00 | 4.07 |
| Booby Island | 10 36 | 141 55 | Standard | Port | 4.24 | 2.81 | 2.01 | 0.58 | | 2.41 | 1.00 | 0.00 | 4.31 |
| Crab Island | 10 58 | 142 07 | -0 12 | -0 12 | 3.7 | 2.4 | 1.7 | 0.5 | | 2.10 | | | 3.7 |
| Bampfield Head | 10 42 | 142 06 | -0 09 | -0 09 | 4.3 | 3.0 | 1.9 | 0.6 | | 2.44 | | | 4.3 |
| Merauke | 08 29 | 140 24 | -2 50 | -2 50 | 5.5 | 3.2 | 2.9 | 0.6 | | 3.04 | | | 5.7 |
| Weipa (Humbug Point) | 12 40 | 141 52 | Standard | Port | 2.95 | 2.21 | 1.46 | 0.72 | 1.752 | 1.83 | 1.00 | 0.00 | 3.38 |
| Aurukun (Archer River) | 13 22 | 141 43 | +0 14 | +0 23 | 2.33 | 1.75 | 1.15 | 0.57 | 1.18 | 1.50 | 0.79 | 0.00 | 2.67 |
| Archer River (Worbody Point) | 13 20 | 141 39 | +0 25 | +0 25 | 2.1 | 1.7 | 0.8 | 0.4 | | 1.26 | | | 2.2 |
| Pennefather River | 12 18 | 141 42 | -0 33 | -0 33 | 3.13 | 2.34 | 1.55 | 0.76 | | 1.87 | 1.06 | 0.00 | 3.58 |
| Karumba | 17 30 | 140 50 | Standard | Port | 3.77 | 3.38 | 0.83 | 0.45 | 2.184 | 2.11 | 1.00 | 0.00 | 4.88 |
| Sweers Island Offshore | 16 52 | 139 36 | +0 13 | +0 13 | 3.8 | 3.7 | 0.9 | 0.8 | | 2.27 | | | 4.7 |
| Inscription Point (Sweers Is.) | 17 07 | 139 36 | +0 52 | +0 36 | 3.71 | 3.33 | 0.86 | 0.49 | | 2.06 | 0.97 | +0.05 | 4.78 |
| Mornington Island | 16 40 | 139 10 | Standard | Port | 3.12 | 2.84 | 1.09 | 0.81 | 2.00 | 1.96 | 1.00 | 0.00 | 3.87 |

The secondary place time differences and tidal planes are based on short observation sets and are updated as new observations become available.

Tide calculations for places other than standard ports

Find the required locality in the table
 Semidiurnal Tidal planes or the table Diurnal
 Tide planes and note its standard port.

Time of High Water

1. Note the time difference in column 1;
2. Add or subtract (as indicated by + or -) this time difference to the predicted time of high water at the standard port.

Time of Low Water

1. Note the time difference in column 2;
2. Add or subtract (as indicated by + or -) this time difference to the predicted time of low water at the standard port.

The result is the approximate time of the tide at the required locality.

Height of High water

1. Find the height of the predicted high water at the standard port;
2. Multiply the height by the figure in column 9;
3. Add or subtract (as indicated by the + or -) the figure in column 10.

Height of Low Water

1. Find the height of the predicted low water at the standard port;
2. Multiply the height by the figure in column 9;
3. Add or subtract (as indicated by the + or -) the figure in column 10.

The result is the approximate height of tide at the required locality.

Extract from the table Semidiurnal Tidal Planes

Height above lowest astronomical tide

| Place | Latitude | Longitude | Time Difference | MHWS | MHWN | MLWN | MLWS | AHD | MSL | Ratio | Cons | HAT | |
|-----------|----------|-----------|-----------------|-------|------|------|------|-------|------|-------|------|-------|------|
| | | | | HW | LW | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | H M | H M | m | m | m | m | m | m | m | m |
| Standard | 27 05 | 152 07 | Standard Port | 2.16 | 1.76 | 0.75 | 0.35 | 1.243 | 1.27 | 1.00 | 0.00 | 2.71 | |
| Secondary | 27 12 | 152 15 | -0 25 | -0 20 | 1.75 | 1.25 | 0.55 | 0.15 | | 0.84 | 0.81 | +0.04 | 2.35 |

Example calculation

Find the time and height of high and low tide at a secondary place on the morning of March 16.

Information from Semidiurnal tidal planes table

Ports
 Standard port
 Secondary Place

"Standard"
 Time difference H. W
 Time difference L. W
 Column 9
 Column 10

Extract from tidal prediction tables
 for standard ports

| March | | |
|-------|------|------|
| | Time | m |
| | 0428 | 0.41 |
| 16 | 1033 | 2.35 |
| | 1658 | 0.40 |
| | 2257 | 2.21 |

Predicted H.W at standard port

2.35m at 10:33

Time of H.W. at secondary place

= 10:33 - 25 minutes = 10:08

Height of H.W. at secondary place

= (2.35*0.81) + 0.04 = 1.94m

= 1.90 + 0.04

Predicted L.W. at standard port
 Time of L.W. at secondary place

0.41m at 04:28

Height of L. W. at secondary place

= 04:28 - 20 minutes = 04:08

= (0.41*0.81) + 0.04

= 0.33 + 0.04

= 0.37m

Tide calculations between high and low water

Example Calculations – Standard Port
Required: Tidal height at 0840 hours

- Obtain the tidal predictions from the tables.

Extract from tidal prediction tables for standard ports

| | Time | m |
|-----------|-------------|-------------|
| 0428 | 0.41 | |
| 16 | 1033 | 2.35 |
| | 1658 | 0.40 |
| | 2257 | 2.21 |

| | |
|---------------------------|-------|
| High water | 2.35 |
| Low water | -0.41 |
| Range (Height difference) | 1.94 |

Required time 0840 hours, which is 1 hour and 53 minutes before high water. Enter the appropriate Standard Tidal Curves (or interpolated graph) for the 1.94m range to 1 hour 53 minutes before high water. Read off the height at this point, which in this case is approximately 1.6m

- Add the height obtained in step three above to the height of low water.

$$\begin{array}{r} \text{L.W} \quad 0.4\text{m (rounded off)} \\ +1.6\text{m} \\ \hline 2.0\text{m (approx.) at 08:40} \end{array}$$

Example Calculations – Secondary Place
Required: Tidal height at 0840 hours

- Calculate the high and low water times and heights for the secondary place

| | | |
|------------|-------|-------|
| Low water | 04:08 | 0.37m |
| High water | 10:08 | 1.94m |

| | |
|---------------------------|-------|
| High water | 1.94 |
| Low water | -0.37 |
| Range (Height difference) | 1.57 |

Required time 0840 hours, which is 1 hour and 28 minutes before high water. Enter the appropriate Standard Tidal Curves (or interpolated graph) for the 1.57m range to 1 hour 28 minutes before high water. Read off the height at this point, which in this case is approximately 1.4m

- Add the height obtained in step three above to the height of low water.

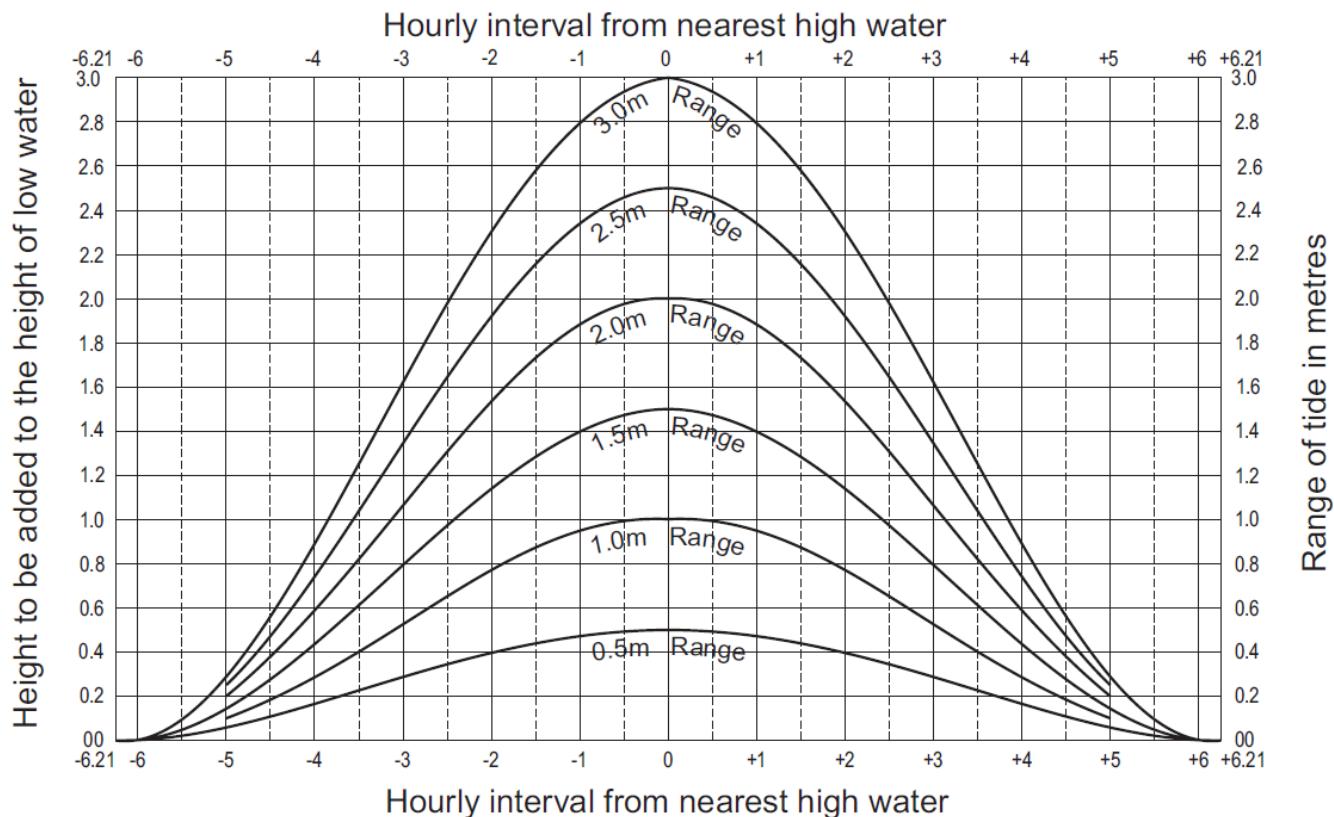
$$\begin{array}{r} \text{L.W} \quad 0.4\text{m (rounded off)} \\ +1.4\text{m} \\ \hline 1.8\text{m (approx.) at 08:40} \end{array}$$

Conversion – Metres to Feet

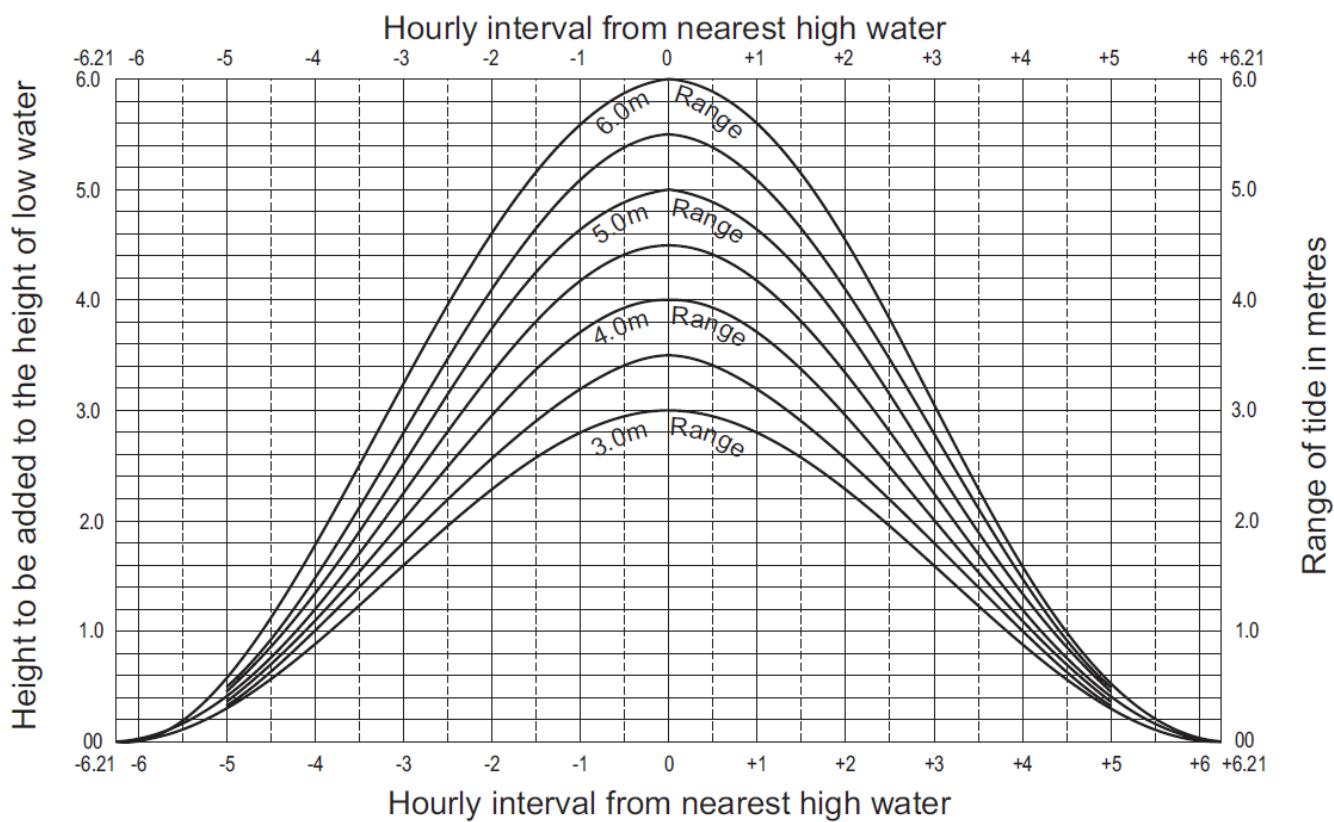
| Metres | 0.00 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Feet | | | | | | | | | | |
| 0 | 0.00 | 0.33 | 0.66 | 0.98 | 1.31 | 1.64 | 1.97 | 2.30 | 2.62 | 2.95 |
| 1 | 3.28 | 3.61 | 3.94 | 4.27 | 4.59 | 4.92 | 5.25 | 5.58 | 5.91 | 6.23 |
| 2 | 6.56 | 6.89 | 7.22 | 7.55 | 7.87 | 8.20 | 8.53 | 8.86 | 9.19 | 9.51 |
| 3 | 9.84 | 10.17 | 10.50 | 10.83 | 11.15 | 11.48 | 11.81 | 12.14 | 12.47 | 12.80 |
| 4 | 13.12 | 13.45 | 13.78 | 14.11 | 14.44 | 14.76 | 15.09 | 15.42 | 15.75 | 16.08 |
| 5 | 16.40 | 16.73 | 17.06 | 17.39 | 17.72 | 18.04 | 18.37 | 18.70 | 19.03 | 19.36 |
| 6 | 19.69 | 20.01 | 20.34 | 20.67 | 21.00 | 21.33 | 21.65 | 21.98 | 22.31 | 22.64 |
| 7 | 22.97 | 23.29 | 23.62 | 23.95 | 24.28 | 24.61 | 24.93 | 25.26 | 25.59 | 25.92 |
| 8 | 26.25 | 26.57 | 26.90 | 27.23 | 27.56 | 27.89 | 28.22 | 28.54 | 28.87 | 29.20 |
| 9 | 29.53 | 29.86 | 30.18 | 30.51 | 30.84 | 31.17 | 31.50 | 31.82 | 32.15 | 32.48 |
| 10 | 32.81 | 33.14 | 33.46 | 33.79 | 34.12 | 34.45 | 34.78 | 35.10 | 35.43 | 35.76 |
| 11 | 36.09 | 36.42 | 36.75 | 37.07 | 37.40 | 37.73 | 38.06 | 38.39 | 38.71 | 39.04 |
| 12 | 39.37 | 39.70 | 40.03 | 40.35 | 40.68 | 41.01 | 41.34 | 41.67 | 41.99 | 42.32 |
| 13 | 42.65 | 42.98 | 43.31 | 43.64 | 43.96 | 44.29 | 44.62 | 44.95 | 45.28 | 45.60 |
| 14 | 45.93 | 46.26 | 46.59 | 46.92 | 47.24 | 47.57 | 47.90 | 48.23 | 48.56 | 48.88 |
| 15 | 49.21 | 49.54 | 49.87 | 50.20 | 50.52 | 50.85 | 51.18 | 51.51 | 51.84 | 52.17 |

Standard tidal curves

Standard Tidal Curves - Tide Ranges up to 3m



Standard Tidal Curves - Tide Ranges up to 6m



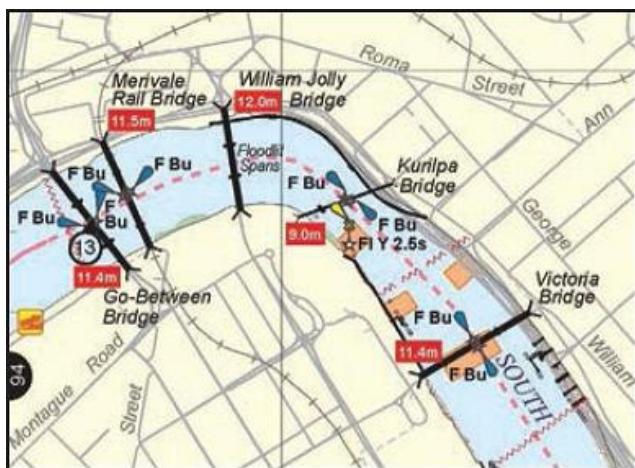
Calculation of overhead clearance

With the introduction of the tidal datum epoch 1992-2011, the semidiurnal and diurnal tidal planes information was updated.

At some localities, this had a minor impact on the highest astronomical tide values. The clearance value assigned to overhead structures across tidal waters is being reviewed.

Mariners are advised to refer to this publication, boating safety charts, the Beacon to Beacon Directory and the respective management authority signage for warnings and clearance information.

Highest astronomical tide values for standard ports and secondary locations are tabulated on pages 107 to 113.



Extract from the Beacon to Beacon Directory – edition 9

Overhead clearance

This is defined as the vertical distance between the lowest under-surface of the overhead structure and the water level at the highest astronomical tide.

For electricity cables, this also incorporates an additional mandatory safety margin to satisfy electrical regulations.

The difference in elevation between the highest astronomical tide value and the predicted tide height at the time of passing under the structure, can be added to the nominated minimum clearance shown on the chart/directory so as to derive the total clearance available.

A further safety margin should be included to provide a guaranteed air space above the uppermost part of the vessel and the under-surface of the overhead structure, therefore further reducing available overhead clearance.

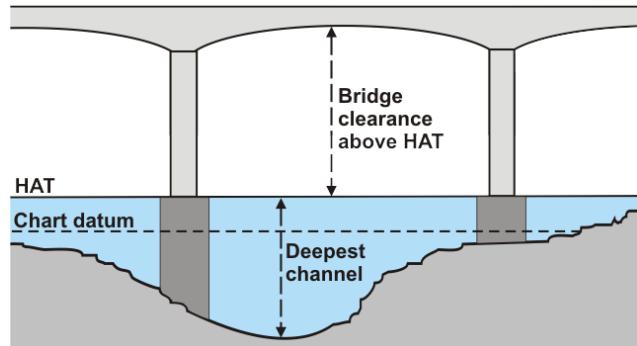
Weather conditions, storm surge, flood runoff, current, wave action or wash from other vessels should be considered as factors that can cause an additional reduction of your calculated clearance.

Consult your chart first, the deepest part of a channel may not occur at the maximum point of clearance.

To ensure the safety of your vessel and persons onboard, know the maximum height of your vessel above the waterline, its maximum draught, always keep a proper lookout, and navigate beneath the overhead structure at an appropriate speed.

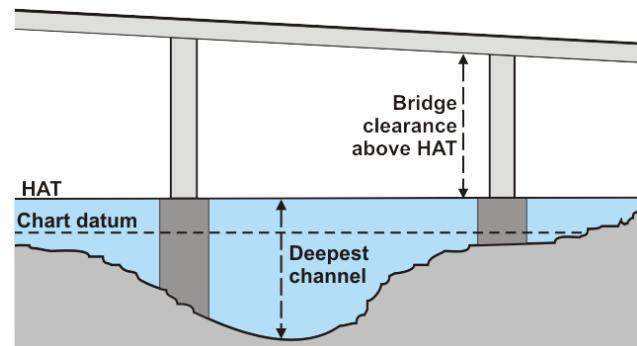
Bridges and overhead pipelines

The value shown is the maximum clearance above HAT (highest astronomical tide).



For a bridge that slopes continuously downwards from one bank to the other, the clearance value shown is for the position beneath the lowest part of the span.

For an example, refer to NTM 630 of 2009 for details of the Kurilpa Bridge across the Brisbane River.

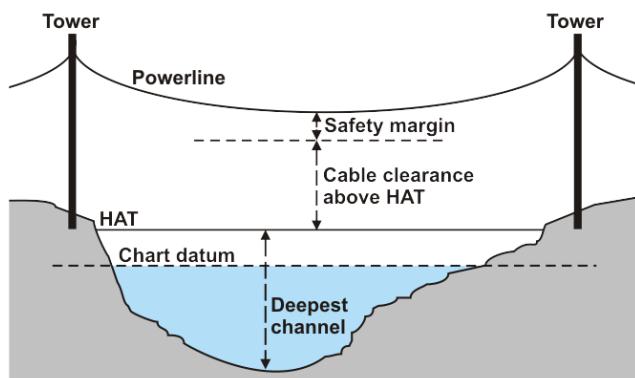


In all instances, the deepest part of the navigation channel may not occur at the point of maximum clearance

Overhead cable clearance

The value shown indicates the maximum height of a vessel which may pass beneath the cable and are given for the lowest point of the sag. Allowances have been made for safety margins required to satisfy the electricity regulations. Clearances are given with respect to HAT. The deepest part of the navigation channel may not occur at the point of maximum clearance.

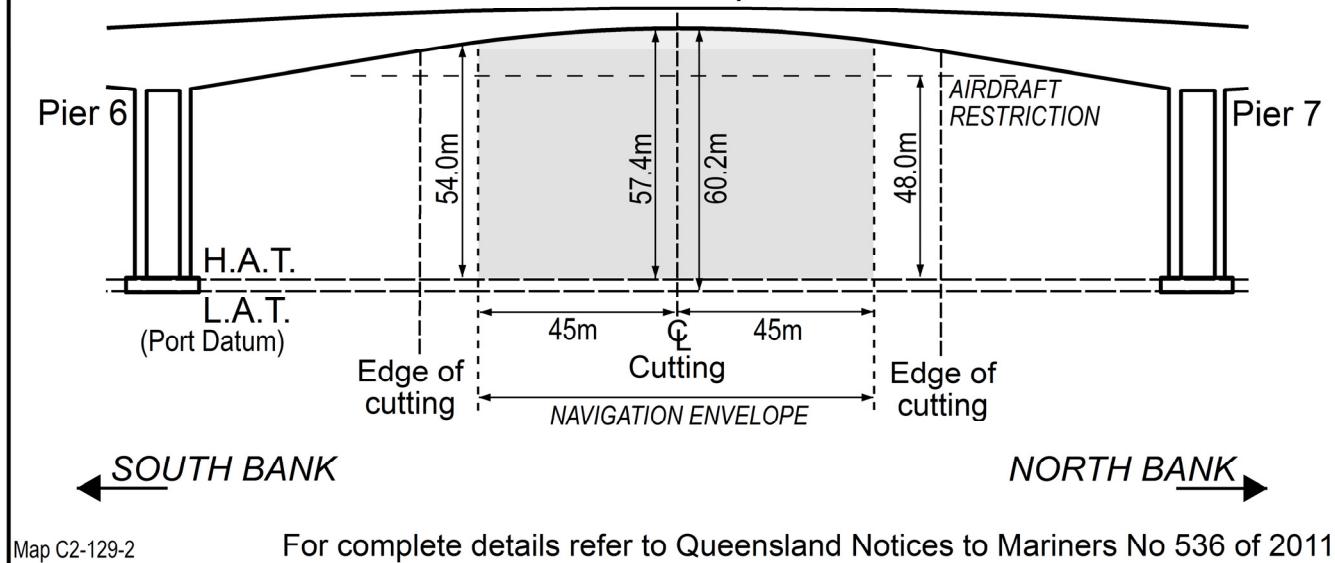
Boat operators should always be responsible for maintaining a proper lookout at all times for crossings which may not be shown on the chart or those which have altered in some way.



SIR LEO HIELSCHER BRIDGES CLEARANCES

(formerly Gateway Bridges)

Centre of span



Map C2-129-2

For complete details refer to Queensland Notices to Mariners No 536 of 2011

No anchoring zone - a vessel must not be anchored within 50 metres of an underwater cable or pipeline that is accompanied by warning signage from the management authority.



Note - it is prohibited to anchor, berth, moor or operate a vessel within 100 metres of a dam wall, spillway or weir; or near infrastructure nominated by the management authority.

Flood debris warning

Mariners are advised that the safest areas are in the middle third of the waterway. Known submerged hazards adjacent to the banks have been found by survey (March - June 2011). Hazards can move. Navigate carefully.

2019 Phases and apsides of the moon

| New Moon d h m | First Quarter d h m | Full Moon d h m | Last Quarter d h m | Perigee d h m | Apogee d h m |
|-------------------|------------------------|--------------------|-----------------------|------------------|-----------------|
| Jan 06 11:28 | Jan 14 16:45 | Jan 21 15:16 | Jan 28 07:10 | Jan 22 05:59 | Jan 09 14:30 |
| Feb 05 07:03 | Feb 13 08:26 | Feb 20 01:53 | Feb 26 21:28 | Feb 19 19:07 | Feb 05 19:28 |
| Mar 07 02:04 | Mar 14 20:27 | Mar 21 11:43 | Mar 28 14:10 | Mar 20 05:48 | Mar 04 21:27 |
| Apr 05 18:50 | Apr 13 05:06 | Apr 19 21:12 | Apr 27 08:18 | Apr 17 08:03 | Apr 01 10:15 |
| May 05 08:45 | May 12 11:12 | May 19 07:11 | May 27 02:33 | May 14 07:54 | Apr 29 04:21 |
| Jun 03 20:02 | Jun 10 15:59 | Jun 17 18:31 | Jun 25 19:46 | Jun 08 09:23 | May 26 23:28 |
| Jul 03 05:16 | Jul 09 20:55 | Jul 17 07:38 | Jul 25 11:18 | Jul 05 14:56 | Jun 23 17:52 |
| Aug 01 13:12 | Aug 08 03:31 | Aug 15 22:29 | Aug 24 00:56 | Aug 02 17:10 | Jul 21 10:02 |
| Aug 30 20:37 | Sep 06 13:10 | Sep 14 14:33 | Sep 22 12:41 | Aug 31 01:59 | Aug 17 20:51 |
| Sep 29 04:26 | Oct 06 02:47 | Oct 14 07:08 | Oct 21 22:39 | Sep 28 12:28 | Sep 13 23:33 |
| Oct 28 13:38 | Nov 04 20:23 | Nov 12 23:34 | Nov 20 07:11 | Oct 26 20:42 | Oct 11 04:30 |
| Nov 27 01:05 | Dec 04 16:58 | Dec 12 15:12 | Dec 19 14:57 | Nov 23 17:56 | Nov 07 18:38 |
| Dec 26 15:13 | | | | Dec 19 06:31 | Dec 05 14:10 |

The moon phases given in this table are the times when the sun, moon, and earth lie approximately in the same line (180°) at full and new moon and at first and last quarter when the moon is (90°) to the line of the sun and earth.

Times are Australian Eastern Standard Time

2019 Seasons and apsides of the earth

| Perihelion d h m | Vernal Equinox d h m | Summer Solstice d h m | Aphelion d h m | Autumnal Equinox d h m | Winter Solstice d h m |
|---------------------|-------------------------|--------------------------|-------------------|---------------------------|--------------------------|
| Jan 03 15:00 | Mar 21 07:58 | Jun 22 01:54 | Jul 05 08:00 | Sep 23 17:50 | Dec 22 14:19 |

Equinox and Solstice named by Northern Hemisphere convention

Times are Australian Eastern Standard Time

Using the moonrise and moonset table

The average time between the rising and setting of the moon is 12 hours 25 minutes. It follows that successive rises (or sets) of the moon will be 24 hours and 50 minutes apart or in other words the moon will rise (or set) on average 50 minutes later each successive day of the year.

As a consequence of the above – unlike the sun which always rises in the morning and sets in the afternoon of the same day – the moon will frequently set on the day after it has risen.

Occasionally there is no entry in the table for the moon set time, this means that the moon will set on the next day.

Occasionally there is no entry in the table for the moonrise time, this means the moon rose on the previous day.

Sun and moon rise and set tables

The tables of moon and sun rise and set have been prepared by Maritime Safety Queensland using information from Geoscience Australia. The tables detail the times of the rise and set phenomena for an observer at sea level for the following tidal stations:-

- Brisbane Bar
- Gladstone
- Mackay Outer Harbour
- Townsville
- Cairns
- Karumba
- Weipa

The time of the rise and set varies from place to place. However for adjacent places the variation is small and as a result the entries in the table may be used for adjacent tidal stations.

The times of moon rise and set are given for every day of the month. The times of sunrise and set are given for every 5th day of the month.

The following groupings are applicable:-

- | | |
|---------------------------|---|
| • Brisbane representing | Gold Coast Seaway, Brisbane Bar and Mooloolaba. |
| • Gladstone representing | Bundaberg, Gladstone, Port Alma and Rosslyn Bay. |
| • Mackay representing | Hay Pt, Mackay, Shute Harbour, Bowen and Abbot Point. |
| • Townsville representing | Townsville and Lucinda. |
| • Cairns representing | Mourilyan, Cairns and Port Douglas. |
| • Karumba representing | Karumba and Mornington Island. |
| • Weipa representing | Weipa and Thursday Island. |

It should be noted that:-

- The grouping introduces an approximation which does not exceed 10 minutes;
- atmospheric refraction that is different from the standard refraction; and,
- the height of eye of the observer (above sea level), will affect the time at which the sun and moon appear to rise and set.

Definitions:-

- **Sun rise** is defined as the instant in the morning under ideal meteorological conditions, with standard refraction of the sun's rays, when the upper edge of the sun's disk is coincident with an ideal horizon.
- **Sun set** is defined as the instant in the evening under ideal meteorological conditions, with standard refraction of the sun's rays, when the upper edge of the sun's disk is coincident with an ideal horizon.
- **Moon rise** is defined as the instant when, in the eastern sky, under ideal meteorological conditions, with standard refraction of the moon's rays, the upper edge of the moon's disk is coincident with an ideal horizon.
- **Moon set** is defined as the instant when, in the western sky, under ideal meteorological conditions, with standard refraction of the moon's rays, the upper edge of the moon's disk is coincident with an ideal horizon.

An ideal horizon exists when the surface forming the horizon is at a right angle to the vertical line passing through the observer's position on the earth. If the terrain surrounding the observer was flat and all at the same height above sea level, the horizon seen by the observer standing on the earth would approximate the ideal horizon.

Times of Sunrise and Sunset for Queensland - Time Zone 1000E

| PORT | DAY | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | RISE | SET |
| Brisbane | 01 | 0455 | 1846 | 0520 | 1842 | 0540 | 1819 | 0557 | 1745 | 0613 | 1716 | 0630 | 1701 | 0638 | 1704 | 0628 | 1719 | 0601 | 1734 | 0527 | 1748 | 0456 | 1806 | 0444 | 1828 |
| Gladstone | 01 | 0511 | 1846 | 0533 | 1844 | 0550 | 1824 | 0603 | 1754 | 0616 | 1728 | 0630 | 1716 | 0638 | 1719 | 0630 | 1732 | 0606 | 1744 | 0535 | 1754 | 0509 | 1809 | 0459 | 1829 |
| Mackay | 01 | 0524 | 1848 | 0545 | 1848 | 0600 | 1831 | 0611 | 1803 | 0620 | 1740 | 0633 | 1729 | 0641 | 1733 | 0634 | 1744 | 0612 | 1754 | 0544 | 1801 | 0520 | 1813 | 0513 | 1832 |
| Townsville | 01 | 0538 | 1854 | 0557 | 1855 | 0611 | 1839 | 0619 | 1814 | 0628 | 1752 | 0639 | 1742 | 0647 | 1746 | 0641 | 1757 | 0621 | 1805 | 0554 | 1810 | 0532 | 1821 | 0526 | 1838 |
| Cairns | 01 | 0546 | 1854 | 0605 | 1856 | 0616 | 1842 | 0623 | 1819 | 0629 | 1759 | 0639 | 1750 | 0647 | 1755 | 0642 | 1804 | 0623 | 1810 | 0559 | 1814 | 0539 | 1822 | 0534 | 1838 |
| Karumba | 01 | 0605 | 1914 | 0624 | 1916 | 0636 | 1902 | 0643 | 1838 | 0650 | 1818 | 0700 | 1809 | 0707 | 1813 | 0703 | 1823 | 0643 | 1830 | 0619 | 1834 | 0558 | 1843 | 0553 | 1858 |
| Weipa | 01 | 0610 | 1901 | 0626 | 1905 | 0634 | 1855 | 0637 | 1836 | 0640 | 1819 | 0647 | 1813 | 0654 | 1818 | 0652 | 1826 | 0636 | 1828 | 0616 | 1828 | 0559 | 1833 | 0557 | 1846 |
| Brisbane | 05 | 0458 | 1847 | 0523 | 1840 | 0543 | 1815 | 0559 | 1741 | 0615 | 1713 | 0631 | 1700 | 0638 | 1706 | 0626 | 1721 | 0556 | 1736 | 0522 | 1750 | 0454 | 1809 | 0445 | 1831 |
| Gladstone | 05 | 0513 | 1847 | 0536 | 1842 | 0552 | 1821 | 0605 | 1751 | 0618 | 1726 | 0632 | 1715 | 0638 | 1721 | 0628 | 1734 | 0602 | 1745 | 0531 | 1756 | 0506 | 1811 | 0500 | 1832 |
| Mackay | 05 | 0527 | 1849 | 0548 | 1846 | 0602 | 1827 | 0612 | 1800 | 0622 | 1738 | 0635 | 1729 | 0641 | 1734 | 0632 | 1746 | 0609 | 1755 | 0541 | 1803 | 0518 | 1815 | 0513 | 1834 |
| Townsville | 05 | 0540 | 1855 | 0600 | 1853 | 0612 | 1836 | 0620 | 1810 | 0629 | 1750 | 0641 | 1742 | 0647 | 1747 | 0639 | 1758 | 0617 | 1805 | 0551 | 1811 | 0530 | 1823 | 0526 | 1840 |
| Cairns | 05 | 0549 | 1855 | 0607 | 1855 | 0618 | 1839 | 0624 | 1816 | 0630 | 1757 | 0641 | 1750 | 0647 | 1756 | 0640 | 1805 | 0620 | 1811 | 0556 | 1815 | 0537 | 1824 | 0535 | 1840 |
| Karumba | 05 | 0607 | 1916 | 0626 | 1915 | 0637 | 1859 | 0644 | 1835 | 0651 | 1816 | 0701 | 1809 | 0708 | 1815 | 0701 | 1824 | 0640 | 1830 | 0615 | 1835 | 0556 | 1844 | 0554 | 1901 |
| Weipa | 05 | 0612 | 1903 | 0628 | 1905 | 0635 | 1853 | 0637 | 1833 | 0641 | 1818 | 0649 | 1813 | 0655 | 1819 | 0650 | 1826 | 0634 | 1828 | 0613 | 1829 | 0558 | 1834 | 0558 | 1848 |
| Brisbane | 10 | 0502 | 1847 | 0527 | 1837 | 0546 | 1810 | 0602 | 1736 | 0618 | 1710 | 0633 | 1700 | 0637 | 1708 | 0622 | 1724 | 0551 | 1738 | 0517 | 1752 | 0451 | 1812 | 0445 | 1835 |
| Gladstone | 10 | 0517 | 1847 | 0539 | 1839 | 0555 | 1816 | 0607 | 1746 | 0620 | 1723 | 0634 | 1715 | 0638 | 1723 | 0625 | 1736 | 0557 | 1747 | 0526 | 1758 | 0504 | 1814 | 0501 | 1835 |
| Mackay | 10 | 0530 | 1850 | 0550 | 1844 | 0604 | 1823 | 0613 | 1756 | 0624 | 1735 | 0636 | 1729 | 0641 | 1736 | 0629 | 1748 | 0604 | 1756 | 0536 | 1804 | 0516 | 1818 | 0514 | 1837 |
| Townsville | 10 | 0543 | 1856 | 0602 | 1851 | 0614 | 1832 | 0622 | 1806 | 0631 | 1747 | 0642 | 1742 | 0647 | 1749 | 0637 | 1759 | 0613 | 1806 | 0547 | 1813 | 0528 | 1825 | 0528 | 1843 |
| Cairns | 10 | 0552 | 1856 | 0609 | 1853 | 0619 | 1836 | 0624 | 1812 | 0632 | 1755 | 0642 | 1750 | 0647 | 1757 | 0638 | 1806 | 0616 | 1811 | 0552 | 1816 | 0536 | 1826 | 0536 | 1843 |
| Karumba | 10 | 0611 | 1917 | 0628 | 1913 | 0638 | 1855 | 0645 | 1831 | 0652 | 1814 | 0703 | 1809 | 0708 | 1816 | 0658 | 1825 | 0636 | 1831 | 0612 | 1836 | 0554 | 1847 | 0555 | 1904 |
| Weipa | 10 | 0615 | 1904 | 0630 | 1904 | 0636 | 1850 | 0638 | 1830 | 0642 | 1816 | 0650 | 1814 | 0655 | 1820 | 0648 | 1827 | 0630 | 1828 | 0610 | 1829 | 0557 | 1836 | 0600 | 1851 |
| Brisbane | 15 | 0506 | 1847 | 0530 | 1833 | 0548 | 1804 | 0604 | 1731 | 0621 | 1707 | 0635 | 1700 | 0636 | 1710 | 0618 | 1726 | 0545 | 1740 | 0511 | 1755 | 0448 | 1816 | 0447 | 1838 |
| Gladstone | 15 | 0521 | 1848 | 0542 | 1836 | 0557 | 1811 | 0609 | 1741 | 0622 | 1720 | 0635 | 1716 | 0637 | 1725 | 0621 | 1738 | 0552 | 1749 | 0522 | 1800 | 0502 | 1818 | 0502 | 1838 |
| Mackay | 15 | 0534 | 1851 | 0553 | 1841 | 0605 | 1819 | 0615 | 1751 | 0626 | 1733 | 0638 | 1729 | 0640 | 1738 | 0626 | 1749 | 0559 | 1757 | 0532 | 1806 | 0514 | 1821 | 0516 | 1840 |
| Townsville | 15 | 0547 | 1857 | 0605 | 1849 | 0615 | 1828 | 0623 | 1802 | 0633 | 1745 | 0644 | 1742 | 0646 | 1751 | 0633 | 1801 | 0608 | 1807 | 0543 | 1814 | 0527 | 1828 | 0529 | 1846 |
| Cairns | 15 | 0555 | 1857 | 0611 | 1851 | 0620 | 1832 | 0625 | 1808 | 0633 | 1753 | 0644 | 1751 | 0647 | 1759 | 0635 | 1808 | 0612 | 1812 | 0549 | 1817 | 0534 | 1829 | 0538 | 1846 |
| Karumba | 15 | 0614 | 1918 | 0631 | 1911 | 0639 | 1852 | 0646 | 1828 | 0654 | 1812 | 0704 | 1810 | 0707 | 1818 | 0655 | 1827 | 0632 | 1832 | 0608 | 1837 | 0553 | 1849 | 0557 | 1907 |
| Weipa | 15 | 0618 | 1905 | 0631 | 1902 | 0636 | 1847 | 0638 | 1827 | 0643 | 1815 | 0651 | 1814 | 0655 | 1822 | 0646 | 1828 | 0627 | 1829 | 0607 | 1838 | 0556 | 1838 | 0602 | 1853 |
| Brisbane | 20 | 0510 | 1846 | 0534 | 1829 | 0551 | 1759 | 0607 | 1726 | 0623 | 1704 | 0637 | 1701 | 0635 | 1713 | 0613 | 1729 | 0539 | 1742 | 0507 | 1758 | 0446 | 1820 | 0449 | 1841 |
| Gladstone | 20 | 0524 | 1847 | 0545 | 1833 | 0559 | 1806 | 0611 | 1737 | 0625 | 1718 | 0637 | 1716 | 0636 | 1727 | 0617 | 1740 | 0547 | 1750 | 0518 | 1802 | 0500 | 1821 | 0504 | 1841 |
| Mackay | 20 | 0537 | 1850 | 0556 | 1838 | 0607 | 1814 | 0617 | 1748 | 0628 | 1731 | 0639 | 1730 | 0639 | 1740 | 0622 | 1751 | 0555 | 1759 | 0528 | 1808 | 0513 | 1824 | 0518 | 1843 |
| Townsville | 20 | 0550 | 1857 | 0607 | 1846 | 0616 | 1824 | 0624 | 1759 | 0635 | 1744 | 0645 | 1743 | 0645 | 1753 | 0630 | 1802 | 0604 | 1808 | 0539 | 1816 | 0526 | 1831 | 0532 | 1849 |
| Cairns | 20 | 0558 | 1857 | 0613 | 1848 | 0621 | 1828 | 0627 | 1805 | 0635 | 1752 | 0645 | 1752 | 0646 | 1801 | 0632 | 1808 | 0608 | 1813 | 0545 | 1818 | 0534 | 1831 | 0540 | 1849 |
| Karumba | 20 | 0617 | 1918 | 0632 | 1908 | 0640 | 1848 | 0647 | 1824 | 0656 | 1810 | 0706 | 1811 | 0706 | 1819 | 0652 | 1828 | 0628 | 1832 | 0605 | 1838 | 0553 | 1852 | 0559 | 1909 |
| Weipa | 20 | 0620 | 1906 | 0633 | 1900 | 0636 | 1843 | 0638 | 1824 | 0644 | 1814 | 0653 | 1815 | 0654 | 1823 | 0644 | 1828 | 0623 | 1828 | 0604 | 1830 | 0556 | 1840 | 0604 | 1856 |
| Brisbane | 25 | 0514 | 1845 | 0537 | 1824 | 0554 | 1753 | 0609 | 1721 | 0626 | 1703 | 0638 | 1702 | 0632 | 1715 | 0608 | 1731 | 0533 | 1745 | 0502 | 1801 | 0445 | 1824 | 0451 | 1843 |
| Gladstone | 25 | 0528 | 1846 | 0548 | 1829 | 0601 | 1801 | 0613 | 1733 | 0627 | 1717 | 0638 | 1718 | 0634 | 1729 | 0613 | 1742 | 0541 | 1752 | 0514 | 1805 | 0459 | 1825 | 0507 | 1843 |
| Mackay | 25 | 0540 | 1850 | 0558 | 1835 | 0608 | 1810 | 0618 | 1744 | 0630 | 1730 | 0640 | 1731 | 0637 | 1742 | 0618 | 1752 | 0550 | 1800 | 0524 | 1810 | 0513 | 1828 | 0521 | 1846 |
| Townsville | 25 | 0553 | 1856 | 0609 | 1843 | 0618 | 1820 | 0626 | 1755 | 0637 | 1743 | 0646 | 1744 | 0644 | 1754 | 0626 | 1803 | 0600 | 1809 | 0536 | 1818 | 0525 | 1834 | 0534 | 1851 |
| Cairns | 25 | 0601 | 1857 | 0615 | 1845 | 0622 | 1824 | 0628 | 1802 | 0637 | 1751 | 0646 | 1753 | 0645 | 1802 | 0629 | 1809 | 0604 | 1813 | 0542 | 1820 | 0534 | 1834 | 0543 | 1851 |
| Karumba | 25 | 0620 | 1918 | 0634 | 1905 | 0641 | 1844 | 0648 | 1821 | 0658 | 1809 | 0707 | 1812 | 0705 | 1821 | 0649 | 1829 | 0624 | 1833 | 0602 | 1840 | 0552 | 1855 | 0601 | 1912 |
| Weipa | 25 | 0623 | 1906 | 0634 | 1858 | 0637 | 1840 | 0639 | 1822 | 0645 | 1813 | 0654 | 1816 | 0654 | 1824 | 0641 | 1828 | 0620 | 1828 | 0602 | 1831 | 0556 | 1843 | 0606 | 1859 |

TIMES OF MOONRISE AND MOONSET – BRISBANE 2019

LAT 27° 22' S LONG 153° 10' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0117 | R 0202 | R 0046 | R 0203 | R 0232 | R 0357 | R 0440 | R 0625 | R 0723 | R 0716 | R 0808 | R 0837 |
| | S 1424 | S 1600 | S 1447 | S 1537 | S 1520 | S 1535 | S 1538 | S 1723 | S 1933 | S 2029 | S 2218 | S 2238 |
| 02 | R 0155 | R 0249 | R 0135 | R 0256 | R 0325 | R 0455 | R 0543 | R 0718 | R 0804 | R 0758 | R 0901 | R 0933 |
| | S 1521 | S 1650 | S 1535 | S 1613 | S 1553 | S 1615 | S 1631 | S 1832 | S 2039 | S 2133 | S 2312 | S 2319 |
| 03 | R 0235 | R 0338 | R 0225 | R 0348 | R 0418 | R 0555 | R 0645 | R 0806 | R 0844 | R 0843 | R 0955 | R 1027 |
| | S 1617 | S 1737 | S 1619 | S 1647 | S 1626 | S 1659 | S 1732 | S 1940 | S 2143 | S 2235 | S 2359 | S 2356 |
| 04 | R 0318 | R 0430 | R 0317 | R 0440 | R 0513 | R 0657 | R 0744 | R 0850 | R 0924 | R 0930 | R 1050 | R 1121 |
| | S 1711 | S 1820 | S 1700 | S 1720 | S 1701 | S 1749 | S 1836 | S 2046 | S 2246 | S 2334 | | |
| 05 | R 0404 | R 0522 | R 0409 | R 0533 | R 0609 | R 0759 | R 0839 | R 0930 | R 1006 | R 1020 | S 0043 | S 0030 |
| | S 1804 | S 1900 | S 1737 | S 1753 | S 1739 | S 1845 | S 1943 | S 2151 | S 2347 | | R 1144 | R 1213 |
| 06 | R 0452 | R 0614 | R 0502 | R 0626 | R 0708 | R 0859 | R 0928 | R 1009 | R 1050 | S 0028 | S 0122 | S 0102 |
| | S 1853 | S 1937 | S 1813 | S 1827 | S 1820 | S 1946 | S 2050 | S 2253 | | R 1112 | R 1237 | R 1304 |
| 07 | R 0543 | R 0706 | R 0554 | R 0721 | R 0808 | R 0954 | R 1013 | R 1048 | S 0045 | S 0119 | S 0157 | S 0133 |
| | S 1939 | S 2011 | S 1846 | S 1902 | S 1906 | S 2050 | S 2155 | S 2355 | R 1137 | R 1205 | R 1330 | R 1356 |
| 08 | R 0635 | R 0758 | R 0646 | R 0817 | R 0908 | R 1045 | R 1053 | R 1128 | S 0141 | S 0204 | S 0230 | S 0204 |
| | S 2021 | S 2045 | S 1919 | S 1941 | S 1957 | S 2155 | S 2258 | | R 1226 | R 1258 | R 1421 | R 1448 |
| 09 | R 0727 | R 0850 | R 0738 | R 0915 | R 1008 | R 1131 | R 1132 | S 0055 | S 0233 | S 0245 | S 0301 | S 0236 |
| | S 2100 | S 2117 | S 1952 | S 2023 | S 2054 | S 2259 | S 2359 | R 1209 | R 1318 | R 1352 | R 1513 | R 1542 |
| 10 | R 0819 | R 0942 | R 0831 | R 1014 | R 1105 | R 1213 | R 1210 | S 0154 | S 0321 | S 0322 | S 0333 | S 0312 |
| | S 2136 | S 2150 | S 2026 | S 2110 | S 2155 | | | R 1253 | R 1411 | R 1444 | R 1605 | R 1639 |
| 11 | R 0911 | R 1036 | R 0926 | R 1114 | R 1158 | S 0003 | S 0101 | S 0251 | S 0405 | S 0356 | S 0405 | S 0350 |
| | S 2210 | S 2225 | S 2102 | S 2202 | S 2258 | R 1253 | R 1248 | R 1340 | R 1504 | R 1536 | R 1658 | R 1737 |
| 12 | R 1003 | R 1131 | R 1022 | R 1212 | R 1246 | S 0105 | S 0201 | S 0345 | S 0444 | S 0429 | S 0438 | S 0434 |
| | S 2243 | S 2302 | S 2141 | S 2259 | | R 1331 | R 1328 | R 1430 | R 1557 | R 1628 | R 1753 | R 1837 |
| 13 | R 1055 | R 1228 | R 1120 | R 1308 | S 0002 | S 0206 | S 0300 | S 0436 | S 0521 | S 0500 | S 0515 | S 0523 |
| | S 2316 | S 2343 | S 2224 | | R 1331 | R 1408 | R 1410 | R 1522 | R 1649 | R 1719 | R 1850 | R 1937 |
| 14 | R 1148 | R 1328 | R 1219 | S 0001 | S 0106 | S 0306 | S 0359 | S 0523 | S 0555 | S 0532 | S 0555 | S 0618 |
| | S 2350 | S 2313 | R 1400 | R 1412 | R 1447 | R 1455 | R 1615 | R 1741 | R 1812 | R 1949 | R 2035 | |
| 15 | R 1243 | S 0030 | R 1319 | S 0106 | S 0209 | S 0407 | S 0455 | S 0605 | S 0627 | S 0604 | S 0640 | S 0718 |
| | R 1430 | | R 1448 | R 1452 | R 1528 | R 1543 | R 1709 | R 1832 | R 1905 | R 2047 | R 2129 | |
| 16 | S 0027 | S 0123 | S 0008 | S 0211 | S 0312 | S 0507 | S 0549 | S 0644 | S 0658 | S 0638 | S 0730 | S 0821 |
| | R 1341 | R 1532 | R 1418 | R 1533 | R 1530 | R 1612 | R 1634 | R 1801 | R 1924 | R 2000 | R 2145 | R 2218 |
| 17 | S 0107 | S 0222 | S 0109 | S 0317 | S 0414 | S 0606 | S 0639 | S 0719 | S 0730 | S 0716 | S 0826 | S 0925 |
| | R 1442 | R 1632 | R 1514 | R 1615 | R 1609 | R 1659 | R 1727 | R 1854 | R 2016 | R 2057 | R 2240 | R 2302 |
| 18 | S 0152 | S 0327 | S 0213 | S 0422 | S 0517 | S 0703 | S 0725 | S 0753 | S 0802 | S 0757 | S 0926 | S 1029 |
| | R 1545 | R 1729 | R 1607 | R 1655 | R 1650 | R 1749 | R 1821 | R 1945 | R 2109 | R 2154 | R 2331 | R 2343 |
| 19 | S 0243 | S 0436 | S 0321 | S 0526 | S 0618 | S 0756 | S 0806 | S 0825 | S 0837 | S 0843 | | |
| | R 1649 | R 1821 | R 1655 | R 1735 | R 1733 | R 1842 | R 1914 | R 2036 | R 2204 | R 2252 | S 1028 | S 1133 |
| 20 | S 0341 | S 0545 | S 0429 | S 0630 | S 0719 | S 0845 | S 0844 | S 0856 | S 0916 | S 0934 | R 0018 | R 0022 |
| | R 1752 | R 1908 | R 1740 | R 1815 | R 1819 | R 1935 | R 2007 | R 2128 | R 2301 | R 2349 | S 1132 | S 1235 |
| 21 | S 0445 | S 0654 | S 0536 | S 0733 | S 0818 | S 0929 | S 0919 | S 0928 | S 0958 | | R 0102 | R 0059 |
| | R 1852 | R 1952 | R 1822 | R 1858 | R 1908 | R 2029 | R 2059 | R 2220 | R 2359 | S 1031 | S 1236 | S 1337 |
| 22 | S 0553 | S 0800 | S 0642 | S 0835 | S 0913 | S 1009 | S 0952 | S 1002 | | R 0043 | R 0142 | R 0137 |
| | R 1946 | R 2033 | R 1903 | R 1942 | R 1959 | R 2122 | R 2150 | R 2315 | S 1047 | S 1132 | S 1340 | S 1439 |
| 23 | S 0703 | S 0904 | S 0747 | S 0934 | S 1004 | S 1045 | S 1023 | | R 0058 | R 0133 | R 0221 | R 0217 |
| | R 2035 | R 2113 | R 1944 | R 2029 | R 2052 | R 2215 | R 2242 | S 1038 | S 1141 | S 1237 | S 1443 | S 1542 |
| 24 | S 0810 | S 1006 | S 0850 | S 1031 | S 1051 | S 1119 | S 1055 | R 0011 | R 0155 | R 0220 | R 0300 | R 0259 |
| | R 2120 | R 2152 | R 2025 | R 2119 | R 2145 | R 2306 | R 2334 | S 1118 | S 1241 | S 1342 | S 1547 | S 1645 |
| 25 | S 0916 | S 1106 | S 0951 | S 1124 | S 1133 | S 1152 | | R 0109 | R 0249 | R 0304 | R 0340 | R 0345 |
| | R 2200 | R 2232 | R 2107 | R 2210 | R 2239 | R 2358 | S 1128 | S 1204 | S 1346 | S 1448 | S 1652 | S 1747 |
| 26 | S 1019 | S 1205 | S 1051 | S 1212 | S 1211 | | R 0028 | R 0209 | R 0341 | R 0345 | R 0421 | R 0435 |
| | R 2239 | R 2315 | R 2152 | R 2302 | R 2331 | S 1224 | S 1203 | S 1256 | S 1453 | S 1554 | S 1757 | S 1846 |
| 27 | S 1119 | S 1302 | S 1148 | S 1256 | | R 0050 | R 0124 | R 0309 | R 0428 | R 0426 | R 0506 | R 0528 |
| | R 2317 | R 2359 | R 2239 | R 2355 | S 1246 | S 1256 | S 1242 | S 1355 | S 1601 | S 1700 | S 1901 | S 1940 |
| 28 | S 1218 | S 1241 | | R 0023 | R 0144 | R 0223 | R 0408 | R 0512 | R 0506 | R 0555 | R 0624 | |
| | R 2355 | S 1356 | R 2328 | S 1336 | S 1320 | S 1331 | S 1326 | S 1500 | S 1709 | S 1806 | S 2002 | S 2030 |
| 29 | | | | R 0048 | R 0115 | R 0240 | R 0324 | R 0503 | R 0554 | R 0548 | R 0647 | R 0720 |
| | S 1316 | | S 1331 | S 1413 | S 1352 | S 1408 | S 1416 | S 1608 | S 1817 | S 1912 | S 2059 | S 2114 |
| 30 | R 0035 | | R 0019 | R 0140 | R 0208 | R 0339 | R 0426 | R 0553 | R 0635 | R 0632 | R 0742 | R 0816 |
| | S 1412 | | S 1417 | S 1447 | S 1425 | S 1450 | S 1513 | S 1717 | S 1923 | S 2017 | S 2151 | S 2153 |
| 31 | R 0117 | | R 0111 | | R 0302 | | R 0527 | R 0640 | | R 0718 | | R 0910 |
| | S 1507 | | S 1459 | | S 1459 | | S 1616 | S 1826 | | S 2119 | | S 2228 |

TIMES OF MOONRISE AND MOONSET – GLADSTONE 2019

LAT 23° 50' S LONG 151° 15' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0127 | R 0216 | R 0101 | R 0217 | R 0243 | R 0402 | R 0442 | R 0626 | R 0729 | R 0727 | R 0824 | R 0853 |
| | S 1428 | S 1601 | S 1448 | S 1540 | S 1527 | S 1546 | S 1552 | S 1737 | S 1942 | S 2033 | S 2218 | S 2239 |
| 02 | R 0207 | R 0304 | R 0150 | R 0308 | R 0334 | R 0458 | R 0543 | R 0720 | R 0812 | R 0811 | R 0917 | R 0947 |
| | S 1524 | S 1651 | S 1536 | S 1617 | S 1601 | S 1628 | S 1647 | S 1845 | S 2046 | S 2135 | S 2312 | S 2321 |
| 03 | R 0249 | R 0354 | R 0240 | R 0359 | R 0426 | R 0557 | R 0645 | R 0809 | R 0854 | R 0857 | R 1011 | R 1041 |
| | S 1619 | S 1738 | S 1620 | S 1653 | S 1635 | S 1713 | S 1747 | S 1951 | S 2148 | S 2236 | | S 2359 |
| 04 | R 0332 | R 0444 | R 0331 | R 0450 | R 0519 | R 0658 | R 0745 | R 0855 | R 0936 | R 0945 | S 0001 | R 1132 |
| | S 1713 | S 1822 | S 1702 | S 1727 | S 1712 | S 1804 | S 1851 | S 2056 | S 2249 | S 2334 | R 1105 | |
| 05 | R 0419 | R 0536 | R 0423 | R 0541 | R 0613 | R 0759 | R 0840 | R 0937 | R 1019 | R 1035 | S 0045 | S 0034 |
| | S 1805 | S 1902 | S 1741 | S 1801 | S 1751 | S 1901 | S 1957 | S 2159 | S 2349 | | R 1158 | R 1223 |
| 06 | R 0507 | R 0627 | R 0514 | R 0633 | R 0710 | R 0859 | R 0931 | R 1018 | R 1104 | S 0029 | S 0124 | S 0108 |
| | S 1854 | S 1940 | S 1817 | S 1837 | S 1834 | S 2002 | S 2102 | S 2259 | | R 1127 | R 1250 | R 1313 |
| 07 | R 0558 | R 0718 | R 0604 | R 0726 | R 0809 | R 0955 | R 1017 | R 1059 | S 0046 | S 0119 | S 0201 | S 0140 |
| | S 1940 | S 2016 | S 1852 | S 1913 | S 1921 | S 2105 | S 2206 | S 2359 | R 1152 | R 1220 | R 1341 | R 1403 |
| 08 | R 0649 | R 0808 | R 0655 | R 0821 | R 0909 | R 1047 | R 1100 | R 1140 | S 0142 | S 0205 | S 0235 | S 0213 |
| | S 2023 | S 2051 | S 1926 | S 1953 | S 2013 | S 2208 | S 2307 | | R 1242 | R 1313 | R 1431 | R 1454 |
| 09 | R 0741 | R 0859 | R 0746 | R 0918 | R 1008 | R 1135 | R 1140 | S 0058 | S 0234 | S 0247 | S 0308 | S 0247 |
| | S 2103 | S 2125 | S 2001 | S 2037 | S 2109 | S 2311 | | R 1222 | R 1333 | R 1405 | R 1521 | R 1547 |
| 10 | R 0832 | R 0950 | R 0838 | R 1016 | R 1105 | R 1218 | S 0007 | S 0155 | S 0322 | S 0325 | S 0341 | S 0324 |
| | S 2140 | S 2159 | S 2036 | S 2124 | S 2210 | | R 1219 | R 1308 | R 1426 | R 1456 | R 1612 | R 1642 |
| 11 | R 0922 | R 1041 | R 0931 | R 1114 | R 1159 | S 0013 | S 0106 | S 0252 | S 0406 | S 0401 | S 0414 | S 0404 |
| | S 2216 | S 2235 | S 2113 | S 2217 | S 2312 | R 1259 | R 1259 | R 1355 | R 1518 | R 1547 | R 1704 | R 1739 |
| 12 | R 1013 | R 1135 | R 1025 | R 1213 | R 1249 | S 0113 | S 0205 | S 0345 | S 0447 | S 0435 | S 0449 | S 0449 |
| | S 2250 | S 2314 | S 2154 | S 2315 | | R 1339 | R 1340 | R 1445 | R 1610 | R 1637 | R 1757 | R 1838 |
| 13 | R 1103 | R 1231 | R 1122 | R 1309 | S 0015 | S 0212 | S 0303 | S 0436 | S 0524 | S 0508 | S 0527 | S 0539 |
| | S 2324 | S 2356 | S 2238 | | R 1335 | R 1418 | R 1423 | R 1537 | R 1701 | R 1727 | R 1853 | R 1937 |
| 14 | R 1155 | R 1330 | R 1220 | S 0016 | S 0117 | S 0311 | S 0400 | S 0524 | S 0559 | S 0540 | S 0609 | S 0634 |
| | S 2359 | S 2328 | R 1402 | R 1418 | R 1459 | R 1510 | R 1630 | R 1751 | R 1818 | R 1950 | R 2035 | |
| 15 | R 1249 | S 0044 | R 1320 | S 0119 | S 0219 | S 0410 | S 0456 | S 0607 | S 0633 | S 0614 | S 0655 | S 0734 |
| | R 1431 | | R 1451 | R 1459 | R 1541 | R 1558 | R 1722 | R 1841 | R 1910 | R 2048 | R 2129 | |
| 16 | S 0038 | S 0138 | S 0023 | S 0224 | S 0320 | S 0509 | S 0550 | S 0647 | S 0706 | S 0650 | S 0746 | S 0836 |
| | R 1345 | R 1532 | R 1419 | R 1537 | R 1539 | R 1626 | R 1650 | R 1814 | R 1931 | R 2003 | R 2145 | R 2220 |
| 17 | S 0119 | S 0238 | S 0124 | S 0327 | S 0420 | S 0607 | S 0640 | S 0724 | S 0739 | S 0729 | S 0842 | S 0939 |
| | R 1444 | R 1633 | R 1515 | R 1621 | R 1620 | R 1714 | R 1742 | R 1905 | R 2022 | R 2059 | R 2240 | R 2306 |
| 18 | S 0205 | S 0342 | S 0228 | S 0431 | S 0521 | S 0703 | S 0726 | S 0758 | S 0813 | S 0811 | S 0941 | S 1041 |
| | R 1546 | R 1730 | R 1609 | R 1703 | R 1702 | R 1805 | R 1835 | R 1955 | R 2114 | R 2155 | R 2332 | R 2348 |
| 19 | S 0258 | S 0450 | S 0334 | S 0533 | S 0621 | S 0756 | S 0809 | S 0831 | S 0849 | S 0858 | | |
| | R 1650 | R 1824 | R 1659 | R 1745 | R 1747 | R 1857 | R 1928 | R 2045 | R 2207 | R 2252 | S 1043 | S 1143 |
| 20 | S 0357 | S 0558 | S 0440 | S 0635 | S 0721 | S 0845 | S 0847 | S 0904 | S 0929 | S 0950 | R 0021 | R 0029 |
| | R 1753 | R 1913 | R 1745 | R 1827 | R 1833 | R 1950 | R 2019 | R 2135 | R 2303 | R 2349 | S 1145 | S 1243 |
| 21 | S 0501 | S 0704 | S 0546 | S 0737 | S 0819 | S 0930 | S 0923 | S 0938 | S 1013 | | R 0106 | R 0108 |
| | R 1853 | R 1958 | R 1830 | R 1911 | R 1923 | R 2043 | R 2110 | R 2226 | R 2359 | S 1047 | S 1247 | S 1344 |
| 22 | S 0608 | S 0809 | S 0650 | S 0837 | S 0914 | S 1011 | S 0958 | S 1013 | | R 0043 | R 0148 | R 0148 |
| | R 1949 | R 2041 | R 1912 | R 1956 | R 2014 | R 2135 | R 2200 | R 2318 | S 1102 | S 1148 | S 1349 | S 1444 |
| 23 | S 0716 | S 0911 | S 0753 | S 0936 | S 1005 | S 1049 | S 1031 | | R 0058 | R 0135 | R 0229 | R 0229 |
| | R 2039 | R 2122 | R 1954 | R 2044 | R 2107 | R 2226 | R 2250 | S 1050 | S 1157 | S 1251 | S 1451 | S 1545 |
| 24 | S 0822 | S 1012 | S 0854 | S 1032 | S 1052 | S 1124 | S 1104 | R 0013 | R 0155 | R 0223 | R 0309 | R 0313 |
| | R 2125 | R 2203 | R 2037 | R 2134 | R 2200 | R 2316 | R 2340 | S 1132 | S 1257 | S 1355 | S 1553 | S 1647 |
| 25 | S 0926 | S 1110 | S 0954 | S 1124 | S 1135 | | R 0111 | R 0250 | R 0308 | R 0350 | R 0400 | |
| | R 2208 | R 2245 | R 2121 | R 2225 | R 2252 | S 1158 | S 1138 | S 1219 | S 1400 | S 1459 | S 1656 | S 1747 |
| 26 | S 1027 | S 1208 | S 1053 | S 1213 | S 1214 | R 0007 | R 0033 | R 0210 | R 0343 | R 0352 | R 0434 | R 0450 |
| | R 2248 | R 2328 | R 2207 | R 2317 | R 2344 | S 1231 | S 1215 | S 1312 | S 1506 | S 1603 | S 1759 | S 1846 |
| 27 | S 1126 | | S 1149 | | R 0058 | R 0128 | R 0310 | R 0432 | R 0434 | R 0520 | R 0544 | |
| | R 2327 | S 1303 | R 2254 | S 1257 | S 1251 | S 1305 | S 1255 | S 1411 | S 1613 | S 1707 | S 1902 | S 1940 |
| 28 | R 0013 | S 1242 | R 0009 | R 0034 | R 0150 | R 0225 | R 0408 | R 0517 | R 0516 | R 0610 | R 0639 | |
| | S 1223 | S 1357 | R 2344 | S 1338 | S 1325 | S 1341 | S 1340 | S 1515 | S 1719 | S 1811 | S 2002 | S 2030 |
| 29 | R 0007 | | R 0101 | R 0125 | R 0244 | R 0325 | R 0504 | R 0601 | R 0559 | R 0703 | R 0735 | |
| | S 1319 | | S 1332 | S 1416 | S 1359 | S 1420 | S 1431 | S 1622 | S 1825 | S 1915 | S 2059 | S 2115 |
| 30 | R 0048 | | R 0034 | R 0152 | R 0216 | R 0342 | R 0427 | R 0556 | R 0644 | R 0645 | R 0757 | R 0830 |
| | S 1414 | | S 1418 | S 1452 | S 1433 | S 1504 | S 1528 | S 1729 | S 1929 | S 2019 | S 2152 | S 2155 |
| 31 | R 0131 | | R 0126 | | R 0308 | | R 0527 | R 0644 | | R 0733 | | R 0923 |
| | S 1508 | | S 1501 | | S 1509 | | S 1631 | S 1836 | | S 2120 | | S 2232 |

TIMES OF MOONRISE AND MOONSET – MACKAY 2019

LAT 21° 06' S LONG 149° 14' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0138 | R 0230 | R 0114 | R 0229 | R 0253 | R 0408 | R 0445 | R 0629 | R 0736 | R 0737 | R 0838 | R 0906 |
| | S 1434 | S 1604 | S 1451 | S 1545 | S 1534 | S 1557 | S 1606 | S 1751 | S 1951 | S 2038 | S 2221 | S 2242 |
| 02 | R 0218 | R 0318 | R 0203 | R 0320 | R 0343 | R 0504 | R 0547 | R 0724 | R 0820 | R 0823 | R 0931 | R 1000 |
| | S 1528 | S 1654 | S 1539 | S 1623 | S 1609 | S 1640 | S 1701 | S 1857 | S 2053 | S 2140 | S 2314 | S 2325 |
| 03 | R 0301 | R 0407 | R 0254 | R 0410 | R 0433 | R 0601 | R 0648 | R 0815 | R 0904 | R 0910 | R 1025 | R 1053 |
| | S 1623 | S 1741 | S 1624 | S 1659 | S 1645 | S 1726 | S 1801 | S 2002 | S 2154 | S 2240 | | |
| 04 | R 0345 | R 0458 | R 0344 | R 0500 | R 0525 | R 0701 | R 0748 | R 0901 | R 0947 | R 0958 | S 0004 | S 0004 |
| | S 1716 | S 1825 | S 1706 | S 1735 | S 1722 | S 1818 | S 1905 | S 2106 | S 2254 | S 2337 | R 1118 | R 1144 |
| 05 | R 0432 | R 0548 | R 0435 | R 0550 | R 0619 | R 0802 | R 0844 | R 0945 | R 1031 | R 1049 | S 0048 | S 0040 |
| | S 1808 | S 1907 | S 1746 | S 1810 | S 1802 | S 1915 | S 2010 | S 2207 | S 2353 | | R 1211 | R 1233 |
| 06 | R 0521 | R 0639 | R 0525 | R 0641 | R 0715 | R 0902 | R 0935 | R 1027 | R 1117 | S 0031 | S 0129 | S 0115 |
| | S 1857 | S 1946 | S 1823 | S 1846 | S 1846 | S 2015 | S 2114 | S 2306 | | R 1141 | R 1302 | R 1322 |
| 07 | R 0611 | R 0729 | R 0615 | R 0733 | R 0813 | R 0959 | R 1023 | R 1109 | S 0050 | S 0122 | S 0206 | S 0148 |
| | S 1944 | S 2022 | S 1859 | S 1924 | S 1934 | S 2118 | S 2216 | | R 1206 | R 1234 | R 1352 | R 1411 |
| 08 | R 0702 | R 0818 | R 0704 | R 0826 | R 0912 | R 1051 | R 1106 | S 0005 | S 0145 | S 0208 | S 0242 | S 0222 |
| | S 2027 | S 2058 | S 1934 | S 2005 | S 2027 | S 2221 | S 2316 | R 1151 | R 1256 | R 1326 | R 1441 | R 1501 |
| 09 | R 0753 | R 0908 | R 0754 | R 0922 | R 1011 | R 1140 | R 1148 | S 0102 | S 0237 | S 0251 | S 0316 | S 0257 |
| | S 2108 | S 2133 | S 2010 | S 2049 | S 2123 | S 2323 | | R 1235 | R 1347 | R 1417 | R 1530 | R 1552 |
| 10 | R 0843 | R 0957 | R 0845 | R 1019 | R 1108 | R 1224 | S 0015 | S 0159 | S 0325 | S 0330 | S 0349 | S 0335 |
| | S 2146 | S 2209 | S 2046 | S 2138 | S 2223 | | R 1229 | R 1321 | R 1439 | R 1508 | R 1619 | R 1646 |
| 11 | R 0933 | R 1048 | R 0937 | R 1117 | R 1203 | S 0023 | S 0113 | S 0255 | S 0410 | S 0407 | S 0424 | S 0416 |
| | S 2222 | S 2246 | S 2124 | S 2231 | S 2325 | R 1307 | R 1310 | R 1409 | R 1531 | R 1557 | R 1710 | R 1743 |
| 12 | R 1022 | R 1141 | R 1030 | R 1215 | R 1253 | S 0122 | S 0210 | S 0348 | S 0451 | S 0441 | S 0500 | S 0502 |
| | S 2257 | S 2325 | S 2206 | S 2329 | | R 1348 | R 1352 | R 1459 | R 1622 | R 1646 | R 1802 | R 1841 |
| 13 | R 1112 | R 1236 | R 1126 | R 1312 | S 0027 | S 0220 | S 0307 | S 0439 | S 0529 | S 0515 | S 0539 | S 0553 |
| | S 2333 | | | | R 1340 | R 1428 | R 1436 | R 1551 | R 1712 | R 1735 | R 1857 | R 1940 |
| 14 | R 1203 | S 0009 | R 1224 | S 0029 | S 0128 | S 0318 | S 0404 | S 0527 | S 0606 | S 0549 | S 0622 | S 0648 |
| | R 1334 | S 2342 | R 1405 | R 1424 | R 1510 | R 1523 | R 1643 | R 1801 | R 1825 | R 1953 | R 2037 | |
| 15 | S 0009 | S 0057 | R 1323 | S 0132 | S 0228 | S 0416 | S 0459 | S 0611 | S 0640 | S 0624 | S 0709 | S 0748 |
| | R 1255 | R 1434 | | R 1456 | R 1507 | R 1553 | R 1612 | R 1735 | R 1850 | R 1916 | R 2051 | R 2132 |
| 16 | S 0048 | S 0151 | S 0037 | S 0235 | S 0328 | S 0513 | S 0552 | S 0651 | S 0714 | S 0701 | S 0800 | S 0849 |
| | R 1351 | R 1535 | R 1422 | R 1543 | R 1548 | R 1639 | R 1704 | R 1826 | R 1939 | R 2008 | R 2148 | R 2223 |
| 17 | S 0131 | S 0251 | S 0137 | S 0338 | S 0427 | S 0611 | S 0643 | S 0729 | S 0748 | S 0741 | S 0856 | S 0951 |
| | R 1449 | R 1636 | R 1519 | R 1628 | R 1630 | R 1728 | R 1756 | R 1916 | R 2029 | R 2103 | R 2243 | R 2311 |
| 18 | S 0218 | S 0356 | S 0241 | S 0440 | S 0527 | S 0706 | S 0730 | S 0805 | S 0823 | S 0824 | S 0955 | S 1053 |
| | R 1550 | R 1734 | R 1613 | R 1711 | R 1714 | R 1819 | R 1848 | R 2005 | R 2119 | R 2158 | R 2336 | R 2354 |
| 19 | S 0311 | S 0502 | S 0346 | S 0541 | S 0626 | S 0759 | S 0813 | S 0839 | S 0901 | S 0912 | | |
| | R 1653 | R 1828 | R 1704 | R 1754 | R 1759 | R 1911 | R 1940 | R 2053 | R 2212 | R 2255 | S 1056 | S 1153 |
| 20 | S 0410 | S 0609 | S 0452 | S 0642 | S 0725 | S 0849 | S 0852 | S 0913 | S 0942 | S 1004 | R 0025 | R 0036 |
| | R 1756 | R 1918 | R 1752 | R 1838 | R 1847 | R 2003 | R 2031 | R 2142 | R 2307 | R 2351 | S 1157 | S 1252 |
| 21 | S 0514 | S 0715 | S 0556 | S 0742 | S 0822 | S 0934 | S 0929 | S 0947 | | R 0111 | R 0117 | |
| | R 1857 | R 2005 | R 1837 | R 1922 | R 1937 | R 2056 | R 2120 | R 2232 | S 1026 | S 1101 | S 1258 | S 1351 |
| 22 | S 0621 | S 0818 | S 0659 | S 0841 | S 0917 | S 1016 | S 1004 | S 1023 | R 0003 | R 0046 | R 0154 | R 0158 |
| | R 1953 | R 2049 | R 1921 | R 2009 | R 2028 | R 2147 | R 2209 | R 2324 | S 1116 | S 1201 | S 1359 | S 1450 |
| 23 | S 0728 | S 0919 | S 0800 | S 0939 | S 1008 | S 1054 | S 1039 | | R 0101 | R 0138 | R 0236 | R 0240 |
| | R 2044 | R 2132 | R 2004 | R 2058 | R 2121 | R 2237 | R 2258 | S 1102 | S 1211 | S 1303 | S 1459 | S 1550 |
| 24 | S 0833 | S 1018 | S 0900 | S 1035 | S 1055 | S 1130 | S 1113 | R 0018 | R 0158 | R 0228 | R 0318 | R 0325 |
| | R 2131 | R 2214 | R 2048 | R 2148 | R 2213 | R 2326 | R 2348 | S 1145 | S 1311 | S 1406 | S 1600 | S 1651 |
| 25 | S 0935 | S 1116 | S 0959 | S 1127 | S 1139 | | | R 0114 | R 0254 | R 0314 | R 0401 | R 0413 |
| | R 2215 | R 2257 | R 2133 | R 2239 | R 2304 | S 1205 | S 1148 | S 1232 | S 1414 | S 1509 | S 1702 | S 1750 |
| 26 | S 1035 | S 1212 | S 1056 | S 1216 | S 1219 | R 0016 | R 0039 | R 0213 | R 0347 | R 0359 | R 0446 | R 0504 |
| | R 2257 | R 2341 | R 2220 | R 2331 | R 2355 | S 1240 | S 1226 | S 1326 | S 1519 | S 1612 | S 1804 | S 1848 |
| 27 | S 1133 | | S 1152 | | | R 0105 | R 0133 | R 0313 | R 0437 | R 0442 | R 0533 | R 0558 |
| | R 2337 | S 1307 | R 2308 | S 1301 | S 1256 | S 1315 | S 1307 | S 1425 | S 1624 | S 1715 | S 1905 | S 1943 |
| 28 | R 0027 | S 1245 | R 0022 | R 0045 | R 0157 | R 0229 | R 0411 | R 0524 | R 0526 | R 0624 | R 0653 | |
| | S 1229 | S 1400 | R 2357 | S 1343 | S 1332 | S 1352 | S 1353 | S 1528 | S 1729 | S 1818 | S 2005 | S 2033 |
| 29 | R 0018 | | R 0113 | R 0134 | R 0250 | R 0328 | R 0508 | R 0609 | R 0611 | R 0717 | R 0748 | |
| | S 1324 | | S 1335 | S 1421 | S 1407 | S 1432 | S 1445 | S 1634 | S 1833 | S 1920 | S 2102 | S 2119 |
| 30 | R 0100 | | R 0048 | R 0203 | R 0224 | R 0346 | R 0429 | R 0601 | R 0653 | R 0657 | R 0812 | R 0842 |
| | S 1419 | | S 1421 | S 1458 | S 1442 | S 1516 | S 1542 | S 1741 | S 1936 | S 2023 | S 2154 | S 2200 |
| 31 | R 0144 | | R 0139 | | R 0315 | | R 0530 | R 0650 | | R 0746 | | R 0934 |
| | S 1512 | | S 1504 | | S 1518 | | S 1645 | S 1847 | | S 2123 | | S 2238 |

TIMES OF MOONRISE AND MOONSET – TOWNSVILLE 2019

LAT 19° 15' S LONG 146° 50' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0149 | R 0243 | R 0128 | R 0242 | R 0304 | R 0417 | R 0452 | R 0636 | R 0745 | R 0749 | R 0851 | R 0920 |
| | S 1442 | S 1610 | S 1457 | S 1552 | S 1543 | S 1609 | S 1619 | S 1804 | S 2001 | S 2046 | S 2227 | S 2249 |
| 02 | R 0230 | R 0331 | R 0217 | R 0332 | R 0353 | R 0511 | R 0553 | R 0731 | R 0830 | R 0835 | R 0945 | R 1014 |
| | S 1536 | S 1700 | S 1545 | S 1631 | S 1619 | S 1652 | S 1714 | S 1910 | S 2102 | S 2147 | S 2321 | S 2332 |
| 03 | R 0313 | R 0420 | R 0307 | R 0421 | R 0443 | R 0609 | R 0654 | R 0823 | R 0914 | R 0922 | R 1038 | R 1105 |
| | S 1630 | S 1748 | S 1631 | S 1708 | S 1655 | S 1739 | S 1815 | S 2014 | S 2203 | S 2246 | | |
| 04 | R 0358 | R 0511 | R 0357 | R 0511 | R 0534 | R 0708 | R 0754 | R 0910 | R 0959 | R 1012 | S 0010 | S 0012 |
| | S 1723 | S 1832 | S 1713 | S 1744 | S 1733 | S 1832 | S 1918 | S 2116 | S 2302 | S 2343 | R 1131 | R 1156 |
| 05 | R 0446 | R 0601 | R 0447 | R 0600 | R 0627 | R 0809 | R 0851 | R 0955 | R 1044 | R 1103 | S 0055 | S 0049 |
| | S 1814 | S 1914 | S 1753 | S 1820 | S 1814 | S 1929 | S 2023 | S 2217 | S 2359 | | R 1223 | R 1244 |
| 06 | R 0534 | R 0651 | R 0537 | R 0650 | R 0723 | R 0908 | R 0943 | R 1038 | R 1130 | S 0038 | S 0136 | S 0124 |
| | S 1904 | S 1953 | S 1831 | S 1857 | S 1859 | S 2029 | S 2126 | S 2315 | | R 1155 | R 1314 | R 1332 |
| 07 | R 0625 | R 0740 | R 0626 | R 0741 | R 0820 | R 1005 | R 1031 | R 1120 | S 0056 | S 0128 | S 0214 | S 0158 |
| | S 1950 | S 2031 | S 1908 | S 1936 | S 1947 | S 2131 | S 2227 | | R 1219 | R 1247 | R 1403 | R 1421 |
| 08 | R 0715 | R 0829 | R 0715 | R 0834 | R 0919 | R 1058 | R 1115 | S 0013 | S 0151 | S 0215 | S 0250 | S 0233 |
| | S 2034 | S 2107 | S 1944 | S 2017 | S 2040 | S 2233 | S 2327 | R 1203 | R 1309 | R 1339 | R 1452 | R 1510 |
| 09 | R 0806 | R 0918 | R 0804 | R 0929 | R 1018 | R 1147 | R 1158 | S 0110 | S 0243 | S 0258 | S 0325 | S 0308 |
| | S 2115 | S 2143 | S 2020 | S 2102 | S 2137 | S 2334 | | R 1247 | R 1401 | R 1430 | R 1540 | R 1601 |
| 10 | R 0855 | R 1007 | R 0854 | R 1026 | R 1115 | R 1233 | S 0025 | S 0206 | S 0331 | S 0337 | S 0400 | S 0347 |
| | S 2154 | S 2219 | S 2057 | S 2151 | S 2237 | | R 1239 | R 1334 | R 1452 | R 1520 | R 1629 | R 1654 |
| 11 | R 0944 | R 1057 | R 0945 | R 1124 | R 1209 | S 0034 | S 0122 | S 0301 | S 0417 | S 0415 | S 0435 | S 0429 |
| | S 2231 | S 2257 | S 2136 | S 2245 | S 2338 | R 1316 | R 1321 | R 1422 | R 1544 | R 1609 | R 1719 | R 1750 |
| 12 | R 1033 | R 1149 | R 1038 | R 1222 | R 1300 | S 0132 | S 0218 | S 0355 | S 0458 | S 0450 | S 0512 | S 0515 |
| | S 2307 | S 2337 | S 2218 | S 2342 | | R 1358 | R 1404 | R 1513 | R 1634 | R 1657 | R 1810 | R 1847 |
| 13 | R 1122 | R 1244 | R 1133 | R 1318 | S 0039 | S 0229 | S 0314 | S 0446 | S 0537 | S 0525 | S 0551 | S 0606 |
| | S 2343 | | S 2304 | | R 1348 | R 1439 | R 1449 | R 1604 | R 1724 | R 1745 | R 1904 | R 1946 |
| 14 | R 1212 | S 0021 | R 1231 | S 0043 | S 0140 | S 0326 | S 0410 | S 0533 | S 0614 | S 0600 | S 0635 | S 0702 |
| | R 1341 | S 2355 | R 1412 | R 1433 | R 1521 | R 1536 | R 1656 | R 1812 | R 1834 | R 2000 | R 2044 | |
| 15 | S 0020 | S 0110 | R 1329 | S 0145 | S 0239 | S 0423 | S 0506 | S 0618 | S 0649 | S 0635 | S 0722 | S 0801 |
| | R 1304 | R 1441 | | R 1503 | R 1516 | R 1606 | R 1626 | R 1747 | R 1900 | R 1924 | R 2057 | R 2139 |
| 16 | S 0100 | S 0205 | S 0051 | S 0247 | S 0338 | S 0521 | S 0559 | S 0659 | S 0724 | S 0713 | S 0814 | S 0903 |
| | R 1359 | R 1542 | R 1428 | R 1551 | R 1559 | R 1652 | R 1717 | R 1838 | R 1949 | R 2016 | R 2154 | R 2230 |
| 17 | S 0143 | S 0305 | S 0151 | S 0349 | S 0436 | S 0617 | S 0649 | S 0737 | S 0759 | S 0753 | S 0910 | S 1004 |
| | R 1456 | R 1643 | R 1526 | R 1637 | R 1641 | R 1741 | R 1809 | R 1927 | R 2037 | R 2110 | R 2250 | R 2318 |
| 18 | S 0231 | S 0409 | S 0254 | S 0450 | S 0535 | S 0713 | S 0736 | S 0813 | S 0835 | S 0837 | S 1009 | |
| | R 1557 | R 1741 | R 1620 | R 1721 | R 1726 | R 1832 | R 1901 | R 2015 | R 2128 | R 2205 | R 2342 | S 1105 |
| 19 | S 0325 | S 0515 | S 0359 | S 0551 | S 0633 | S 0806 | S 0820 | S 0848 | S 0913 | S 0925 | | R 0003 |
| | R 1700 | R 1836 | R 1712 | R 1805 | R 1812 | R 1924 | R 1952 | R 2103 | R 2220 | R 2301 | S 1109 | S 1204 |
| 20 | S 0424 | S 0621 | S 0503 | S 0650 | S 0732 | S 0855 | S 0900 | S 0923 | S 0954 | S 1018 | R 0032 | R 0045 |
| | R 1803 | R 1927 | R 1801 | R 1849 | R 1900 | R 2017 | R 2042 | R 2152 | R 2314 | R 2358 | S 1210 | S 1302 |
| 21 | S 0528 | S 0726 | S 0607 | S 0750 | S 0828 | S 0941 | S 0937 | S 0958 | | R 0119 | R 0127 | |
| | R 1903 | R 2014 | R 1847 | R 1935 | R 1950 | R 2109 | R 2131 | R 2241 | S 1039 | S 1115 | S 1310 | S 1400 |
| 22 | S 0634 | S 0828 | S 0709 | S 0848 | S 0923 | S 1023 | S 1013 | S 1035 | R 0010 | R 0053 | R 0203 | R 0209 |
| | R 2000 | R 2059 | R 1931 | R 2022 | R 2042 | R 2159 | R 2220 | R 2332 | S 1129 | S 1215 | S 1410 | S 1459 |
| 23 | S 0740 | S 0928 | S 0809 | S 0946 | S 1014 | S 1102 | S 1048 | | R 0107 | R 0145 | R 0246 | R 0252 |
| | R 2052 | R 2142 | R 2016 | R 2111 | R 2134 | R 2249 | R 2308 | S 1114 | S 1225 | S 1316 | S 1509 | S 1558 |
| 24 | S 0845 | S 1027 | S 0908 | S 1041 | S 1102 | S 1139 | S 1123 | R 0025 | R 0204 | R 0235 | R 0329 | R 0338 |
| | R 2140 | R 2225 | R 2100 | R 2201 | R 2226 | R 2337 | R 2357 | S 1158 | S 1324 | S 1418 | S 1609 | S 1657 |
| 25 | S 0946 | S 1124 | S 1007 | S 1134 | S 1146 | | R 0121 | R 0300 | R 0322 | R 0412 | R 0426 | |
| | R 2225 | R 2309 | R 2146 | R 2253 | R 2317 | S 1214 | S 1159 | S 1246 | S 1427 | S 1521 | S 1710 | S 1757 |
| 26 | S 1045 | S 1219 | S 1104 | S 1222 | | R 0026 | R 0047 | R 0219 | R 0354 | R 0408 | R 0458 | R 0518 |
| | R 2307 | R 2354 | R 2233 | R 2344 | S 1226 | S 1249 | S 1238 | S 1339 | S 1531 | S 1622 | S 1811 | S 1855 |
| 27 | S 1142 | | S 1159 | | R 0007 | R 0115 | R 0140 | R 0319 | R 0445 | R 0452 | R 0546 | R 0612 |
| | R 2348 | S 1314 | R 2321 | S 1308 | S 1304 | S 1325 | S 1319 | S 1438 | S 1636 | S 1724 | S 1912 | S 1949 |
| 28 | R 0040 | | R 0035 | R 0056 | R 0205 | R 0236 | R 0418 | R 0533 | R 0537 | R 0637 | R 0707 | |
| | S 1237 | S 1406 | S 1251 | S 1350 | S 1341 | S 1403 | S 1406 | S 1542 | S 1740 | S 1826 | S 2012 | S 2040 |
| 29 | R 0030 | | R 0011 | R 0125 | R 0145 | R 0258 | R 0335 | R 0515 | R 0619 | R 0622 | R 0731 | R 0802 |
| | S 1332 | | S 1341 | S 1429 | S 1416 | S 1444 | S 1458 | S 1647 | S 1843 | S 1928 | S 2108 | S 2126 |
| 30 | R 0113 | | R 0101 | R 0215 | R 0234 | R 0354 | R 0436 | R 0608 | R 0704 | R 0710 | R 0825 | R 0855 |
| | S 1426 | | S 1428 | S 1507 | S 1452 | S 1529 | S 1556 | S 1753 | S 1945 | S 2030 | S 2201 | S 2207 |
| 31 | R 0157 | | R 0152 | | R 0325 | | R 0537 | R 0658 | | R 0800 | | R 0947 |
| | S 1519 | | S 1511 | | S 1529 | | S 1659 | S 1858 | | S 2130 | | S 2246 |

TIMES OF MOONRISE AND MOONSET – CAIRNS 2019

LAT 16° 56' S LONG 145° 47' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0155 | R 0251 | R 0136 | R 0250 | R 0310 | R 0419 | R 0453 | R 0636 | R 0749 | R 0755 | R 0900 | R 0929 |
| | S 1444 | S 1611 | S 1457 | S 1554 | S 1546 | S 1615 | S 1627 | S 1812 | S 2006 | S 2048 | S 2227 | S 2249 |
| 02 | R 0237 | R 0340 | R 0225 | R 0339 | R 0358 | R 0513 | R 0553 | R 0732 | R 0835 | R 0842 | R 0953 | R 1022 |
| | S 1537 | S 1700 | S 1545 | S 1633 | S 1623 | S 1659 | S 1723 | S 1917 | S 2106 | S 2148 | S 2321 | S 2333 |
| 03 | R 0321 | R 0429 | R 0315 | R 0428 | R 0447 | R 0610 | R 0654 | R 0824 | R 0920 | R 0930 | R 1047 | R 1113 |
| | S 1630 | S 1748 | S 1631 | S 1711 | S 1700 | S 1747 | S 1824 | S 2020 | S 2205 | S 2247 | | |
| 04 | R 0406 | R 0519 | R 0405 | R 0516 | R 0537 | R 0708 | R 0754 | R 0913 | R 1005 | R 1020 | S 0010 | S 0013 |
| | S 1723 | S 1833 | S 1714 | S 1748 | S 1739 | S 1840 | S 1927 | S 2122 | S 2303 | S 2343 | R 1140 | R 1202 |
| 05 | R 0454 | R 0609 | R 0455 | R 0604 | R 0630 | R 0809 | R 0851 | R 0959 | R 1051 | R 1112 | S 0056 | S 0051 |
| | S 1814 | S 1915 | S 1755 | S 1825 | S 1821 | S 1937 | S 2030 | S 2221 | | | R 1231 | R 1250 |
| 06 | R 0543 | R 0658 | R 0544 | R 0654 | R 0724 | R 0908 | R 0944 | R 1043 | S 0001 | S 0038 | S 0137 | S 0127 |
| | S 1904 | S 1955 | S 1834 | S 1902 | S 1906 | S 2038 | S 2133 | S 2319 | R 1139 | R 1204 | R 1321 | R 1337 |
| 07 | R 0633 | R 0747 | R 0632 | R 0744 | R 0821 | R 1005 | R 1033 | R 1126 | S 0057 | S 0128 | S 0216 | S 0202 |
| | S 1951 | S 2033 | S 1911 | S 1942 | S 1955 | S 2139 | S 2233 | | R 1228 | R 1256 | R 1409 | R 1425 |
| 08 | R 0723 | R 0835 | R 0720 | R 0836 | R 0919 | R 1059 | R 1119 | S 0015 | S 0151 | S 0215 | S 0253 | S 0238 |
| | S 2035 | S 2110 | S 1948 | S 2024 | S 2049 | S 2241 | S 2332 | R 1210 | R 1318 | R 1347 | R 1457 | R 1513 |
| 09 | R 0813 | R 0923 | R 0808 | R 0931 | R 1017 | R 1149 | R 1202 | S 0111 | S 0243 | S 0259 | S 0329 | S 0314 |
| | S 2117 | S 2147 | S 2025 | S 2110 | S 2146 | S 2341 | | R 1255 | R 1409 | R 1437 | R 1544 | R 1603 |
| 10 | R 0902 | R 1011 | R 0857 | R 1027 | R 1115 | R 1236 | S 0029 | S 0207 | S 0332 | S 0339 | S 0404 | S 0354 |
| | S 2156 | S 2224 | S 2103 | S 2159 | S 2245 | | R 1245 | R 1342 | R 1501 | R 1526 | R 1632 | R 1655 |
| 11 | R 0951 | R 1100 | R 0948 | R 1124 | R 1210 | S 0040 | S 0124 | S 0301 | S 0417 | S 0417 | S 0440 | S 0436 |
| | S 2234 | S 2303 | S 2142 | S 2253 | S 2346 | R 1320 | R 1327 | R 1431 | R 1552 | R 1614 | R 1721 | R 1750 |
| 12 | R 1039 | R 1152 | R 1040 | R 1222 | R 1302 | S 0137 | S 0220 | S 0355 | S 0459 | S 0453 | S 0518 | S 0523 |
| | S 2310 | S 2344 | S 2225 | S 2351 | | R 1402 | R 1411 | R 1522 | R 1641 | R 1702 | R 1812 | R 1847 |
| 13 | R 1127 | R 1245 | R 1134 | R 1318 | S 0047 | S 0233 | S 0316 | S 0446 | S 0539 | S 0529 | S 0559 | S 0615 |
| | S 2347 | | S 2312 | | R 1350 | R 1445 | R 1457 | R 1613 | R 1730 | R 1749 | R 1905 | R 1946 |
| 14 | R 1216 | S 0029 | R 1231 | S 0051 | S 0146 | S 0329 | S 0411 | S 0534 | S 0617 | S 0605 | S 0642 | S 0711 |
| | | R 1342 | | R 1413 | R 1436 | R 1528 | R 1545 | R 1704 | R 1818 | R 1837 | R 2000 | R 2043 |
| 15 | S 0026 | S 0118 | S 0003 | S 0153 | S 0245 | S 0425 | S 0506 | S 0618 | S 0653 | S 0641 | S 0731 | S 0810 |
| | R 1307 | R 1441 | R 1329 | R 1505 | R 1520 | R 1613 | R 1634 | R 1755 | R 1905 | R 1927 | R 2057 | R 2139 |
| 16 | S 0106 | S 0213 | S 0059 | S 0254 | S 0342 | S 0522 | S 0559 | S 0700 | S 0728 | S 0720 | S 0823 | S 0911 |
| | R 1401 | R 1542 | R 1428 | R 1553 | R 1604 | R 1700 | R 1726 | R 1845 | R 1952 | R 2018 | R 2154 | R 2231 |
| 17 | S 0150 | S 0314 | S 0200 | S 0355 | S 0440 | S 0618 | S 0649 | S 0739 | S 0804 | S 0801 | S 0919 | S 1012 |
| | R 1457 | R 1643 | R 1526 | R 1640 | R 1647 | R 1750 | R 1818 | R 1933 | R 2040 | R 2111 | R 2249 | R 2320 |
| 18 | S 0239 | S 0417 | S 0302 | S 0455 | S 0537 | S 0713 | S 0737 | S 0816 | S 0841 | S 0845 | S 1017 | |
| | R 1558 | R 1742 | R 1621 | R 1725 | R 1732 | R 1841 | R 1909 | R 2021 | R 2130 | R 2205 | R 2343 | S 1111 |
| 19 | S 0333 | S 0523 | S 0406 | S 0554 | S 0635 | S 0805 | S 0821 | S 0852 | S 0920 | S 0934 | | R 0005 |
| | R 1700 | R 1837 | R 1714 | R 1810 | R 1819 | R 1933 | R 2000 | R 2108 | R 2221 | R 2301 | S 1117 | S 1209 |
| 20 | S 0432 | S 0628 | S 0510 | S 0653 | S 0732 | S 0855 | S 0901 | S 0927 | S 1002 | S 1027 | R 0033 | R 0049 |
| | R 1803 | R 1929 | R 1803 | R 1856 | R 1908 | R 2025 | R 2049 | R 2155 | R 2314 | R 2358 | S 1217 | S 1307 |
| 21 | S 0536 | S 0732 | S 0612 | S 0752 | S 0829 | S 0941 | S 0940 | S 1003 | | R 0121 | R 0131 | |
| | R 1904 | R 2018 | R 1851 | R 1942 | R 1959 | R 2116 | R 2137 | R 2244 | S 1048 | S 1124 | S 1316 | S 1404 |
| 22 | S 0642 | S 0833 | S 0713 | S 0850 | S 0923 | S 1024 | S 1016 | S 1041 | R 0010 | R 0053 | R 0206 | R 0214 |
| | R 2001 | R 2103 | R 1936 | R 2030 | R 2051 | R 2206 | R 2225 | R 2334 | S 1138 | S 1223 | S 1415 | S 1501 |
| 23 | S 0748 | S 0932 | S 0812 | S 0946 | S 1014 | S 1104 | S 1052 | | R 0107 | R 0146 | R 0250 | R 0259 |
| | R 2054 | R 2148 | R 2022 | R 2119 | R 2143 | R 2255 | R 2312 | S 1121 | S 1233 | S 1324 | S 1513 | S 1559 |
| 24 | S 0851 | S 1030 | S 0911 | S 1041 | S 1102 | S 1141 | | R 0026 | R 0204 | R 0237 | R 0334 | R 0345 |
| | R 2143 | R 2232 | R 2107 | R 2210 | R 2234 | R 2343 | S 1128 | S 1205 | S 1333 | S 1425 | S 1612 | S 1658 |
| 25 | S 0951 | S 1126 | S 1008 | S 1134 | S 1147 | | R 0000 | R 0122 | R 0301 | R 0325 | R 0418 | R 0435 |
| | R 2229 | R 2316 | R 2153 | R 2301 | R 2325 | S 1218 | S 1205 | S 1254 | S 1435 | S 1526 | S 1712 | S 1757 |
| 26 | S 1049 | | S 1104 | S 1223 | | R 0031 | R 0050 | R 0219 | R 0355 | R 0411 | R 0505 | R 0527 |
| | R 2312 | S 1220 | R 2241 | R 2352 | S 1228 | S 1254 | S 1244 | S 1348 | S 1539 | S 1627 | S 1812 | S 1854 |
| 27 | S 1145 | R 0001 | S 1159 | | R 0014 | R 0119 | R 0142 | R 0319 | R 0446 | R 0457 | R 0554 | R 0621 |
| | R 2354 | S 1314 | R 2330 | S 1308 | S 1307 | S 1331 | S 1327 | S 1447 | S 1642 | S 1728 | S 1912 | S 1949 |
| 28 | R 0048 | | R 0043 | R 0102 | R 0208 | R 0237 | R 0418 | R 0535 | R 0542 | R 0646 | R 0716 | |
| | S 1240 | S 1407 | S 1251 | S 1351 | S 1344 | S 1409 | S 1414 | S 1550 | S 1745 | S 1829 | S 2011 | S 2040 |
| 29 | R 0037 | | R 0019 | R 0133 | R 0150 | R 0300 | R 0335 | R 0515 | R 0623 | R 0629 | R 0739 | R 0810 |
| | S 1334 | | S 1341 | S 1431 | S 1420 | S 1451 | S 1507 | S 1655 | S 1847 | S 1930 | S 2108 | S 2126 |
| 30 | R 0120 | | R 0110 | R 0221 | R 0239 | R 0355 | R 0436 | R 0610 | R 0709 | R 0717 | R 0834 | R 0903 |
| | S 1427 | | S 1428 | S 1509 | S 1457 | S 1536 | S 1605 | S 1800 | S 1948 | S 2030 | S 2201 | S 2209 |
| 31 | R 0205 | | R 0200 | | R 0328 | | R 0537 | R 0701 | | R 0808 | | R 0954 |
| | S 1519 | | S 1512 | | S 1535 | | S 1707 | S 1904 | | S 2130 | | S 2248 |

TIMES OF MOONRISE AND MOONSET – WEIPA 2019

LAT 12° 40' S LONG 141° 52' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0214 | R 0315 | R 0200 | R 0312 | R 0328 | R 0432 | R 0503 | R 0645 | R 0803 | R 0814 | R 0924 | R 0952 |
| | S 1457 | S 1619 | S 1506 | S 1605 | S 1600 | S 1635 | S 1651 | S 1835 | S 2023 | S 2101 | S 2235 | S 2258 |
| 02 | R 0258 | R 0403 | R 0249 | R 0400 | R 0415 | R 0525 | R 0602 | R 0742 | R 0851 | R 0903 | R 1018 | R 1045 |
| | S 1548 | S 1709 | S 1554 | S 1645 | S 1639 | S 1721 | S 1747 | S 1939 | S 2121 | S 2159 | S 2329 | S 2343 |
| 03 | R 0343 | R 0453 | R 0338 | R 0447 | R 0503 | R 0620 | R 0703 | R 0836 | R 0938 | R 0953 | R 1111 | R 1135 |
| | S 1640 | S 1757 | S 1640 | S 1724 | S 1718 | S 1810 | S 1848 | S 2040 | S 2218 | S 2256 | | |
| 04 | R 0429 | R 0542 | R 0428 | R 0534 | R 0551 | R 0718 | R 0803 | R 0927 | R 1025 | R 1044 | S 0019 | S 0025 |
| | S 1732 | S 1843 | S 1724 | S 1803 | S 1758 | S 1904 | S 1950 | S 2140 | S 2315 | S 2352 | R 1203 | R 1222 |
| 05 | R 0517 | R 0631 | R 0516 | R 0621 | R 0642 | R 0817 | R 0901 | R 1014 | R 1113 | R 1136 | S 0105 | S 0104 |
| | S 1823 | S 1926 | S 1806 | S 1841 | S 1842 | S 2002 | S 2053 | S 2237 | | | R 1254 | R 1309 |
| 06 | R 0607 | R 0719 | R 0604 | R 0709 | R 0735 | R 0917 | R 0955 | R 1100 | S 0011 | S 0046 | S 0148 | S 0141 |
| | S 1913 | S 2007 | S 1846 | S 1920 | S 1928 | S 2102 | S 2154 | S 2333 | R 1201 | R 1228 | R 1342 | R 1355 |
| 07 | R 0657 | R 0807 | R 0651 | R 0757 | R 0830 | R 1014 | R 1046 | R 1145 | S 0106 | S 0137 | S 0228 | S 0218 |
| | S 2000 | S 2047 | S 1925 | S 2002 | S 2019 | S 2203 | S 2253 | | R 1251 | R 1320 | R 1429 | R 1440 |
| 08 | R 0746 | R 0854 | R 0738 | R 0848 | R 0928 | R 1109 | R 1133 | S 0028 | S 0159 | S 0224 | S 0306 | S 0255 |
| | S 2045 | S 2125 | S 2003 | S 2045 | S 2113 | S 2303 | S 2349 | R 1231 | R 1342 | R 1410 | R 1515 | R 1527 |
| 09 | R 0835 | R 0940 | R 0824 | R 0941 | R 1026 | R 1200 | R 1218 | S 0122 | S 0251 | S 0309 | S 0344 | S 0333 |
| | S 2128 | S 2203 | S 2042 | S 2132 | S 2210 | | | R 1317 | R 1433 | R 1459 | R 1601 | R 1615 |
| 10 | R 0923 | R 1027 | R 0912 | R 1036 | R 1124 | S 0001 | S 0044 | S 0217 | S 0340 | S 0350 | S 0421 | S 0414 |
| | S 2208 | S 2242 | S 2121 | S 2223 | S 2309 | R 1249 | R 1302 | R 1405 | R 1524 | R 1547 | R 1647 | R 1706 |
| 11 | R 1010 | R 1114 | R 1001 | R 1133 | R 1219 | S 0058 | S 0138 | S 0310 | S 0426 | S 0430 | S 0458 | S 0458 |
| | S 2247 | S 2322 | S 2203 | S 2317 | | R 1334 | R 1347 | R 1455 | R 1614 | R 1633 | R 1735 | R 1800 |
| 12 | R 1057 | R 1204 | R 1052 | R 1230 | S 0009 | S 0153 | S 0232 | S 0403 | S 0510 | S 0507 | S 0538 | S 0547 |
| | S 2325 | | S 2247 | | R 1312 | R 1419 | R 1432 | R 1546 | R 1703 | R 1719 | R 1824 | R 1856 |
| 13 | R 1143 | S 0004 | R 1145 | S 0015 | S 0108 | S 0248 | S 0326 | S 0454 | S 0551 | S 0545 | S 0620 | S 0639 |
| | R 1256 | S 2335 | R 1327 | R 1402 | R 1503 | R 1519 | R 1637 | R 1750 | R 1805 | R 1916 | R 1954 | |
| 14 | S 0004 | S 0051 | R 1240 | S 0114 | S 0206 | S 0342 | S 0420 | S 0542 | S 0630 | S 0622 | S 0705 | S 0736 |
| | R 1231 | R 1352 | R 1423 | R 1450 | R 1548 | R 1608 | R 1728 | R 1836 | R 1852 | R 2009 | R 2052 | |
| 15 | S 0044 | S 0141 | S 0027 | S 0215 | S 0302 | S 0437 | S 0514 | S 0628 | S 0707 | S 0700 | S 0754 | S 0834 |
| | R 1320 | R 1450 | R 1338 | R 1516 | R 1536 | R 1635 | R 1658 | R 1817 | R 1922 | R 1939 | R 2105 | R 2148 |
| 16 | S 0126 | S 0237 | S 0123 | S 0315 | S 0358 | S 0532 | S 0607 | S 0711 | S 0744 | S 0740 | S 0847 | S 0934 |
| | R 1413 | R 1551 | R 1437 | R 1606 | R 1621 | R 1723 | R 1750 | R 1906 | R 2008 | R 2029 | R 2202 | R 2241 |
| 17 | S 0211 | S 0337 | S 0223 | S 0414 | S 0454 | S 0627 | S 0658 | S 0751 | S 0821 | S 0822 | S 0943 | S 1034 |
| | R 1508 | R 1652 | R 1535 | R 1655 | R 1706 | R 1813 | R 1841 | R 1953 | R 2054 | R 2121 | R 2258 | R 2331 |
| 18 | S 0301 | S 0441 | S 0325 | S 0512 | S 0550 | S 0721 | S 0746 | S 0830 | S 0900 | S 0908 | S 1041 | |
| | R 1607 | R 1751 | R 1632 | R 1742 | R 1753 | R 1905 | R 1932 | R 2039 | R 2142 | R 2214 | R 2352 | S 1131 |
| 19 | S 0356 | S 0545 | S 0428 | S 0610 | S 0646 | S 0814 | S 0831 | S 0907 | S 0940 | S 0958 | | R 0019 |
| | R 1709 | R 1848 | R 1726 | R 1828 | R 1841 | R 1957 | R 2022 | R 2124 | R 2232 | R 2310 | S 1140 | S 1228 |
| 20 | S 0456 | S 0649 | S 0530 | S 0707 | S 0742 | S 0904 | S 0913 | S 0944 | S 1024 | | R 0044 | R 0104 |
| | R 1812 | R 1942 | R 1817 | R 1915 | R 1931 | R 2049 | R 2110 | R 2210 | R 2324 | S 1051 | S 1238 | S 1323 |
| 21 | S 0600 | S 0751 | S 0630 | S 0803 | S 0837 | S 0951 | S 0952 | S 1021 | | R 0006 | R 0133 | R 0148 |
| | R 1913 | R 2032 | R 1906 | R 2003 | R 2023 | R 2139 | R 2156 | R 2257 | S 1111 | S 1148 | S 1336 | S 1418 |
| 22 | S 0705 | S 0850 | S 0729 | S 0900 | S 0931 | S 1035 | S 1030 | S 1101 | R 0019 | R 0101 | R 0220 | R 0233 |
| | R 2012 | R 2120 | R 1954 | R 2053 | R 2115 | R 2228 | R 2242 | R 2346 | S 1202 | S 1247 | S 1433 | S 1514 |
| 23 | S 0809 | S 0948 | S 0827 | S 0956 | S 1023 | S 1116 | S 1108 | | R 0115 | R 0155 | R 0306 | R 0319 |
| | R 2106 | R 2206 | R 2040 | R 2143 | R 2206 | R 2315 | R 2328 | S 1142 | S 1258 | S 1346 | S 1529 | S 1610 |
| 24 | S 0911 | S 1043 | S 0923 | S 1050 | S 1111 | | | R 0037 | R 0213 | R 0248 | R 0351 | R 0407 |
| | R 2157 | R 2251 | R 2128 | R 2234 | R 2257 | S 1154 | S 1145 | S 1228 | S 1357 | S 1446 | S 1626 | S 1708 |
| 25 | S 1010 | S 1138 | S 1019 | S 1142 | S 1157 | R 0001 | R 0015 | R 0131 | R 0310 | R 0337 | R 0438 | R 0458 |
| | R 2244 | R 2337 | R 2215 | R 2325 | R 2347 | S 1232 | S 1223 | S 1318 | S 1458 | S 1545 | S 1724 | S 1806 |
| 26 | S 1106 | | S 1114 | | | R 0048 | R 0103 | R 0228 | R 0405 | R 0426 | R 0526 | R 0551 |
| | R 2329 | S 1231 | R 2304 | S 1231 | S 1239 | S 1310 | S 1304 | S 1412 | S 1600 | S 1644 | S 1822 | S 1903 |
| 27 | R 0024 | S 1208 | R 0016 | R 0035 | R 0134 | R 0154 | R 0327 | R 0458 | R 0513 | R 0617 | R 0645 | |
| | S 1200 | S 1324 | R 2353 | S 1318 | S 1319 | S 1348 | S 1348 | S 1511 | S 1702 | S 1743 | S 1922 | S 1957 |
| 28 | R 0013 | R 0111 | R 0105 | R 0122 | R 0222 | R 0247 | R 0427 | R 0549 | R 0601 | R 0710 | R 0740 | |
| | S 1253 | S 1416 | S 1300 | S 1401 | S 1357 | S 1428 | S 1437 | S 1614 | S 1803 | S 1842 | S 2020 | S 2048 |
| 29 | R 0057 | R 0043 | R 0154 | R 0208 | R 0313 | R 0345 | R 0525 | R 0638 | R 0649 | R 0804 | R 0834 | |
| | S 1345 | S 1350 | S 1443 | S 1435 | S 1512 | S 1531 | S 1718 | S 1903 | S 1941 | S 2116 | S 2136 | |
| 30 | R 0141 | R 0133 | R 0241 | R 0255 | R 0406 | R 0444 | R 0621 | R 0726 | R 0739 | R 0859 | R 0925 | |
| | S 1437 | S 1437 | S 1522 | S 1514 | S 1559 | S 1629 | S 1821 | S 2002 | S 2040 | S 2209 | S 2219 | |
| 31 | R 0227 | R 0223 | | R 0343 | | R 0545 | R 0713 | | R 0831 | | R 1014 | |
| | S 1529 | S 1522 | | S 1553 | | S 1731 | S 1923 | | S 2139 | | S 2300 | |

TIMES OF MOONRISE AND MOONSET – KARUMBA 2019

LAT 17° 30' S LONG 140° 50' E TIME ZONE 1000E

R = Moonrise time S = Moonset time

| DAY | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 | R 0215 | R 0311 | R 0156 | R 0309 | R 0330 | R 0440 | R 0514 | R 0658 | R 0809 | R 0815 | R 0920 | R 0948 |
| | S 1505 | S 1632 | S 1519 | S 1615 | S 1607 | S 1635 | S 1647 | S 1832 | S 2026 | S 2110 | S 2249 | S 2310 |
| 02 | R 0257 | R 0359 | R 0245 | R 0359 | R 0418 | R 0534 | R 0615 | R 0754 | R 0855 | R 0902 | R 1013 | R 1041 |
| | S 1559 | S 1722 | S 1607 | S 1654 | S 1643 | S 1719 | S 1743 | S 1937 | S 2127 | S 2210 | S 2342 | S 2354 |
| 03 | R 0341 | R 0448 | R 0335 | R 0448 | R 0508 | R 0631 | R 0716 | R 0845 | R 0940 | R 0950 | R 1107 | R 1133 |
| | S 1652 | S 1809 | S 1652 | S 1731 | S 1720 | S 1807 | S 1843 | S 2041 | S 2226 | S 2308 | | |
| 04 | R 0426 | R 0539 | R 0425 | R 0536 | R 0558 | R 0730 | R 0816 | R 0934 | R 1025 | R 1040 | S 0032 | S 0034 |
| | S 1744 | S 1854 | S 1735 | S 1808 | S 1759 | S 1900 | S 1946 | S 2142 | S 2325 | | R 1159 | R 1222 |
| 05 | R 0513 | R 0629 | R 0514 | R 0625 | R 0651 | R 0830 | R 0913 | R 1019 | R 1111 | S 0005 | S 0117 | S 0112 |
| | S 1836 | S 1936 | S 1816 | S 1845 | S 1841 | S 1957 | S 2050 | S 2242 | | R 1131 | R 1251 | R 1310 |
| 06 | R 0603 | R 0718 | R 0603 | R 0714 | R 0745 | R 0930 | R 1005 | R 1103 | S 0022 | S 0059 | S 0158 | S 0148 |
| | S 1925 | S 2016 | S 1854 | S 1922 | S 1926 | S 2057 | S 2153 | S 2339 | R 1158 | R 1223 | R 1341 | R 1358 |
| 07 | R 0653 | R 0807 | R 0652 | R 0805 | R 0842 | R 1027 | R 1054 | R 1146 | S 0118 | S 0150 | S 0237 | S 0222 |
| | S 2012 | S 2054 | S 1932 | S 2002 | S 2015 | S 2159 | S 2254 | | R 1247 | R 1315 | R 1429 | R 1445 |
| 08 | R 0743 | R 0855 | R 0740 | R 0857 | R 0941 | R 1121 | R 1139 | S 0036 | S 0213 | S 0237 | S 0314 | S 0258 |
| | S 2056 | S 2131 | S 2008 | S 2044 | S 2108 | S 2301 | S 2352 | R 1230 | R 1338 | R 1407 | R 1517 | R 1534 |
| 09 | R 0833 | R 0943 | R 0829 | R 0952 | R 1039 | R 1210 | R 1223 | S 0133 | S 0304 | S 0320 | S 0349 | S 0334 |
| | S 2138 | S 2207 | S 2045 | S 2129 | S 2205 | | | R 1315 | R 1429 | R 1457 | R 1605 | R 1624 |
| 10 | R 0922 | R 1032 | R 0918 | R 1048 | R 1137 | S 0001 | S 0049 | S 0228 | S 0353 | S 0400 | S 0424 | S 0413 |
| | S 2217 | S 2244 | S 2123 | S 2219 | S 2305 | R 1256 | R 1305 | R 1402 | R 1520 | R 1546 | R 1653 | R 1717 |
| 11 | R 1011 | R 1121 | R 1009 | R 1146 | R 1231 | S 0100 | S 0145 | S 0323 | S 0438 | S 0438 | S 0500 | S 0456 |
| | S 2254 | S 2323 | S 2202 | S 2313 | | R 1340 | R 1347 | R 1451 | R 1611 | R 1635 | R 1742 | R 1812 |
| 12 | R 1059 | R 1213 | R 1101 | R 1243 | S 0006 | S 0157 | S 0241 | S 0416 | S 0521 | S 0514 | S 0538 | S 0543 |
| | S 2331 | | S 2245 | | R 1323 | R 1423 | R 1431 | R 1541 | R 1701 | R 1722 | R 1833 | R 1909 |
| 13 | R 1147 | S 0004 | R 1156 | S 0010 | S 0106 | S 0253 | S 0337 | S 0507 | S 0600 | S 0549 | S 0618 | S 0634 |
| | R 1306 | S 2332 | R 1340 | R 1411 | R 1505 | R 1516 | R 1632 | R 1750 | R 1810 | R 1926 | R 2007 | |
| 14 | S 0008 | S 0048 | R 1253 | S 0111 | S 0206 | S 0350 | S 0432 | S 0555 | S 0637 | S 0625 | S 0702 | S 0731 |
| | R 1237 | R 1403 | R 1434 | R 1457 | R 1548 | R 1604 | R 1724 | R 1838 | R 1858 | R 2022 | R 2105 | |
| 15 | S 0046 | S 0138 | S 0023 | S 0212 | S 0305 | S 0446 | S 0527 | S 0640 | S 0713 | S 0701 | S 0750 | S 0830 |
| | R 1328 | R 1503 | R 1351 | R 1526 | R 1541 | R 1633 | R 1654 | R 1815 | R 1925 | R 1948 | R 2118 | R 2201 |
| 16 | S 0126 | S 0233 | S 0119 | S 0314 | S 0403 | S 0543 | S 0620 | S 0721 | S 0748 | S 0739 | S 0842 | S 0931 |
| | R 1422 | R 1604 | R 1450 | R 1614 | R 1624 | R 1720 | R 1745 | R 1905 | R 2013 | R 2039 | R 2215 | R 2253 |
| 17 | S 0210 | S 0333 | S 0219 | S 0415 | S 0501 | S 0639 | S 0711 | S 0800 | S 0824 | S 0820 | S 0938 | S 1031 |
| | R 1519 | R 1704 | R 1547 | R 1701 | R 1707 | R 1809 | R 1837 | R 1953 | R 2101 | R 2132 | R 2311 | R 2341 |
| 18 | S 0258 | S 0437 | S 0322 | S 0516 | S 0558 | S 0734 | S 0758 | S 0837 | S 0901 | S 0905 | | |
| | R 1619 | R 1803 | R 1643 | R 1746 | R 1752 | R 1900 | R 1929 | R 2041 | R 2151 | R 2227 | S 1037 | S 1131 |
| 19 | S 0353 | S 0543 | S 0426 | S 0615 | S 0656 | S 0827 | S 0842 | S 0912 | S 0939 | S 0953 | R 0004 | R 0026 |
| | R 1722 | R 1858 | R 1735 | R 1830 | R 1839 | R 1952 | R 2020 | R 2128 | R 2242 | R 2323 | S 1137 | S 1230 |
| 20 | S 0452 | S 0648 | S 0530 | S 0714 | S 0754 | S 0917 | S 0922 | S 0948 | S 1021 | | R 0054 | R 0109 |
| | R 1825 | R 1950 | R 1824 | R 1916 | R 1928 | R 2045 | R 2109 | R 2216 | R 2336 | S 1046 | S 1237 | S 1327 |
| 21 | S 0556 | S 0752 | S 0632 | S 0813 | S 0850 | S 1003 | S 1001 | S 1023 | | R 0019 | R 0142 | R 0152 |
| | R 1925 | R 2038 | R 1911 | R 2002 | R 2018 | R 2136 | R 2157 | R 2304 | S 1107 | S 1143 | S 1336 | S 1424 |
| 22 | S 0702 | S 0854 | S 0734 | S 0911 | S 0945 | S 1045 | S 1037 | S 1101 | R 0031 | R 0114 | R 0227 | R 0234 |
| | R 2023 | R 2124 | R 1957 | R 2049 | R 2110 | R 2226 | R 2245 | R 2355 | S 1158 | S 1243 | S 1435 | S 1522 |
| 23 | S 0808 | S 0953 | S 0833 | S 1008 | S 1036 | S 1125 | S 1112 | | R 0128 | R 0207 | R 0310 | R 0318 |
| | R 2115 | R 2208 | R 2042 | R 2139 | R 2202 | R 2315 | R 2332 | S 1141 | S 1253 | S 1344 | S 1534 | S 1621 |
| 24 | S 0911 | S 1051 | S 0932 | S 1103 | S 1124 | | | R 0048 | R 0226 | R 0258 | R 0354 | R 0405 |
| | R 2204 | R 2252 | R 2127 | R 2229 | R 2254 | S 1202 | S 1148 | S 1225 | S 1352 | S 1445 | S 1633 | S 1720 |
| 25 | S 1012 | S 1147 | S 1029 | S 1155 | S 1208 | R 0003 | R 0021 | R 0143 | R 0322 | R 0346 | R 0438 | R 0454 |
| | R 2249 | R 2336 | R 2213 | R 2321 | R 2344 | S 1238 | S 1225 | S 1314 | S 1455 | S 1547 | S 1733 | S 1819 |
| 26 | S 1110 | | S 1126 | | | R 0051 | R 0111 | R 0241 | R 0416 | R 0432 | R 0525 | R 0546 |
| | R 2332 | S 1242 | R 2300 | S 1244 | S 1249 | S 1314 | S 1304 | S 1408 | S 1559 | S 1648 | S 1833 | S 1916 |
| 27 | R 0021 | S 1220 | R 0012 | R 0034 | R 0139 | R 0203 | R 0340 | R 0507 | R 0517 | R 0614 | R 0640 | |
| | S 1206 | S 1336 | R 2349 | S 1330 | S 1327 | S 1351 | S 1346 | S 1507 | S 1702 | S 1749 | S 1934 | S 2011 |
| 28 | R 0014 | R 0108 | R 0103 | R 0122 | R 0229 | R 0259 | R 0440 | R 0440 | R 0556 | R 0602 | R 0705 | R 0735 |
| | S 1301 | S 1428 | S 1313 | S 1412 | S 1404 | S 1429 | S 1434 | S 1610 | S 1805 | S 1850 | S 2033 | S 2101 |
| 29 | R 0056 | R 0039 | R 0152 | R 0211 | R 0321 | R 0357 | R 0537 | R 0643 | R 0649 | R 0759 | R 0830 | |
| | S 1355 | S 1403 | S 1452 | S 1441 | S 1510 | S 1526 | S 1715 | S 1907 | S 1951 | S 2130 | S 2148 | |
| 30 | R 0140 | R 0129 | R 0241 | R 0259 | R 0416 | R 0458 | R 0631 | R 0729 | R 0737 | R 0854 | R 0923 | |
| | S 1448 | S 1450 | S 1530 | S 1517 | S 1556 | S 1624 | S 1820 | S 2009 | S 2052 | S 2222 | S 2230 | |
| 31 | R 0224 | R 0220 | | R 0349 | | R 0558 | R 0722 | | R 0827 | | R 1013 | |
| | S 1541 | S 1533 | | S 1555 | | S 1727 | S 1924 | | S 2151 | | S 2309 | |

