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NEWCASTLE – NEW SOUTH WALES

LAT 32° 56' LONG 151° 47'

Times and Heights of High and Low Waters

2016

Local Time

| JANUARY | | | | FEBRUARY | | | | MARCH | | | | APRIL | | | |
|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|---------------------|---|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0205 1.36 | | 16 0200 1.55 | | 1 0252 1.43 | | 16 0337 1.63 | | 1 0158 1.49 | | 16 0312 1.66 | | 1 0310 1.54 | | 16 0359 1.58 | |
| 0745 0.77 | | 0751 0.59 | | 0902 0.77 | | 1010 0.60 | | 0822 0.72 | | 0959 0.58 | | 1001 0.67 | | 1039 0.60 | |
| FR 1346 1.47 | | SA 1400 1.60 | | MO 1448 1.29 | | TU 1608 1.30 | | TU 1414 1.28 | | WE 1604 1.29 | | FR 1609 1.28 | | SA 1700 1.42 | |
| 2024 0.55 | | 2029 0.39 | | ☾ 2102 0.64 | | 2202 0.60 | | 2009 0.70 | | ☾ 2145 0.72 | | ☾ 2144 0.80 | | 2246 0.78 | |
| 2 0257 1.37 | | 17 0259 1.57 | | 2 0350 1.45 | | 17 0445 1.65 | | 2 0254 1.48 | | 17 0422 1.63 | | 2 0420 1.56 | | 17 0458 1.57 | |
| 0845 0.80 | | 0900 0.62 | | 1015 0.77 | | 1130 0.59 | | 0930 0.74 | | 1113 0.59 | | 1107 0.61 | | 1128 0.59 | |
| SA 1438 1.38 | | SU 1503 1.47 | | TU 1558 1.23 | | WE 1728 1.28 | | WE 1519 1.23 | | TH 1722 1.30 | | SA 1718 1.35 | | SU 1748 1.50 | |
| ☾ 2112 0.58 | | ☾ 2124 0.45 | | 2201 0.66 | | 2310 0.62 | | ☾ 2109 0.74 | | 2258 0.73 | | 2259 0.75 | | 2343 0.72 | |
| 3 0353 1.41 | | 18 0402 1.61 | | 3 0451 1.49 | | 18 0550 1.68 | | 3 0359 1.49 | | 18 0530 1.63 | | 3 0426 1.63 | | 18 0547 1.58 | |
| 0953 0.80 | | 1018 0.63 | | 1129 0.72 | | 1239 0.53 | | 1044 0.71 | | 1217 0.56 | | 1104 0.52 | | 1209 0.57 | |
| SU 1539 1.31 | | MO 1616 1.38 | | WE 1712 1.22 | | TH 1838 1.31 | | TH 1637 1.22 | | FR 1827 1.35 | | SU 1717 1.45 | | MO 1830 1.57 | |
| 2203 0.60 | | 2225 0.49 | | 2302 0.66 | | | | 2220 0.74 | | | | 2302 0.65 | | | |
| 4 0449 1.46 | | 19 0506 1.67 | | 4 0548 1.56 | | 19 0015 0.61 | | 4 0504 1.54 | | 19 0005 0.70 | | 4 0524 1.72 | | 19 0030 0.66 | |
| 1105 0.77 | | 1138 0.58 | | 1232 0.64 | | 0649 1.73 | | 1151 0.64 | | 0629 1.65 | | 1154 0.42 | | 0631 1.59 | |
| MO 1646 1.27 | | TU 1731 1.33 | | TH 1817 1.25 | | FR 1334 0.47 | | FR 1748 1.27 | | SA 1309 0.52 | | MO 1809 1.58 | | TU 1245 0.55 | |
| 2256 0.60 | | 2325 0.51 | | | | 1934 1.36 | | 2328 0.69 | | 1917 1.42 | | | | 1905 1.63 | |
| 5 0542 1.53 | | 20 0607 1.74 | | 5 0000 0.63 | | 20 0110 0.57 | | 5 0603 1.63 | | 20 0101 0.65 | | 5 0000 0.53 | | 20 0110 0.61 | |
| 1211 0.70 | | 1248 0.51 | | 0640 1.65 | | 0741 1.77 | | 1246 0.53 | | 0719 1.67 | | 0617 1.80 | | 0711 1.59 | |
| TU 1751 1.27 | | WE 1841 1.34 | | FR 1323 0.54 | | SA 1420 0.42 | | SA 1847 1.36 | | SU 1350 0.49 | | TU 1241 0.33 | | WE 1316 0.54 | |
| 2346 0.59 | | | | 1914 1.31 | | 2021 1.42 | | | | 2000 1.49 | | 1856 1.71 | | 1939 1.69 | |
| 6 0630 1.61 | | 21 0024 0.51 | | 6 0051 0.57 | | 21 0159 0.53 | | 6 0027 0.61 | | 21 0147 0.59 | | 6 0052 0.42 | | 21 0147 0.56 | |
| 1306 0.62 | | 0703 1.81 | | 0728 1.75 | | 0826 1.79 | | 0657 1.73 | | 0802 1.68 | | 0709 1.86 | | 0748 1.59 | |
| WE 1847 1.29 | | TH 1347 0.43 | | SA 1408 0.43 | | SU 1459 0.39 | | SU 1333 0.42 | | MO 1427 0.46 | | WE 1326 0.27 | | TH 1347 0.53 | |
| | | 1941 1.36 | | 2002 1.38 | | 2102 1.47 | | 1937 1.46 | | 2037 1.55 | | 1943 1.83 | | 2011 1.73 | |
| 7 0033 0.57 | | 22 0117 0.49 | | 7 0139 0.51 | | 22 0242 0.51 | | 7 0119 0.52 | | 22 0229 0.55 | | 7 0145 0.33 | | 22 0223 0.53 | |
| 0714 1.69 | | 0755 1.86 | | 0813 1.84 | | 0906 1.79 | | 0745 1.83 | | 0841 1.69 | | 0800 1.87 | | 0825 1.57 | |
| TH 1352 0.53 | | FR 1437 0.36 | | SU 1449 0.33 | | MO 1533 0.37 | | MO 1417 0.32 | | TU 1459 0.45 | | TH 1410 0.25 | | FR 1417 0.54 | |
| 1938 1.32 | | 2033 1.40 | | 2047 1.46 | | 2139 1.51 | | 2023 1.57 | | 2111 1.60 | | ☾ 2030 1.93 | | ☾ 2042 1.76 | |
| 8 0117 0.54 | | 23 0208 0.48 | | 8 0225 0.44 | | 23 0322 0.50 | | 8 0209 0.42 | | 23 0306 0.52 | | 8 0237 0.27 | | 23 0259 0.51 | |
| 0756 1.77 | | 0843 1.89 | | 0858 1.92 | | 0944 1.78 | | 0833 1.91 | | 0917 1.68 | | 0852 1.84 | | 0901 1.55 | |
| FR 1434 0.44 | | SA 1520 0.32 | | MO 1530 0.25 | | TU 1606 0.38 | | TU 1500 0.24 | | WE 1529 0.45 | | FR 1456 0.27 | | SA 1449 0.57 | |
| 2024 1.37 | | 2120 1.43 | | 2132 1.54 | | ☾ 2215 1.53 | | 2109 1.67 | | ☾ 2144 1.64 | | 2116 1.98 | | 2115 1.78 | |
| 9 0200 0.50 | | 24 0254 0.48 | | 9 0312 0.39 | | 24 0359 0.50 | | 9 0258 0.34 | | 24 0342 0.51 | | 9 0331 0.26 | | 24 0335 0.51 | |
| 0837 1.85 | | 0926 1.90 | | 0942 1.97 | | 1018 1.74 | | 0921 1.95 | | 0952 1.65 | | 0945 1.77 | | 0939 1.52 | |
| SA 1515 0.36 | | SU 1600 0.31 | | TU 1611 0.20 | | WE 1636 0.39 | | WE 1542 0.19 | | TH 1558 0.47 | | SA 1543 0.33 | | SU 1522 0.60 | |
| 2109 1.41 | | ☾ 2203 1.45 | | ☾ 2217 1.60 | | 2247 1.55 | | ☾ 2154 1.76 | | 2215 1.66 | | 2205 1.99 | | 2147 1.78 | |
| 10 0242 0.47 | | 25 0337 0.49 | | 10 0400 0.36 | | 25 0436 0.52 | | 10 0348 0.30 | | 25 0417 0.51 | | 10 0428 0.29 | | 25 0414 0.52 | |
| 0918 1.91 | | 1006 1.87 | | 1028 1.97 | | 1052 1.69 | | 1010 1.93 | | 1026 1.62 | | 1038 1.67 | | 1017 1.48 | |
| SU 1554 0.29 | | MO 1638 0.32 | | WE 1653 0.18 | | TH 1706 0.43 | | TH 1625 0.19 | | FR 1627 0.49 | | SU 1630 0.43 | | MO 1556 0.64 | |
| ☾ 2153 1.45 | | 2243 1.46 | | 2303 1.65 | | 2321 1.55 | | 2241 1.82 | | 2246 1.68 | | 2255 1.96 | | 2223 1.76 | |
| 11 0326 0.45 | | 26 0417 0.51 | | 11 0451 0.36 | | 26 0514 0.55 | | 11 0441 0.29 | | 26 0454 0.52 | | 11 0525 0.35 | | 26 0455 0.54 | |
| 1000 1.94 | | 1044 1.82 | | 1114 1.92 | | 1126 1.62 | | 1059 1.87 | | 1101 1.57 | | 1134 1.56 | | 1059 1.43 | |
| MO 1635 0.25 | | TU 1713 0.35 | | TH 1737 0.21 | | FR 1736 0.47 | | FR 1710 0.24 | | SA 1657 0.53 | | MO 1720 0.54 | | TU 1633 0.69 | |
| 2238 1.48 | | 2320 1.46 | | 2351 1.67 | | 2355 1.55 | | 2328 1.84 | | 2318 1.68 | | 2346 1.88 | | 2300 1.73 | |
| 12 0413 0.44 | | 27 0458 0.55 | | 12 0545 0.39 | | 27 0553 0.58 | | 12 0536 0.32 | | 27 0532 0.54 | | 12 0626 0.43 | | 27 0539 0.58 | |
| 1044 1.95 | | 1119 1.75 | | 1201 1.82 | | 1200 1.54 | | 1149 1.75 | | 1138 1.51 | | 1233 1.45 | | 1144 1.39 | |
| TU 1717 0.23 | | WE 1745 0.39 | | FR 1822 0.27 | | SA 1808 0.52 | | SA 1756 0.32 | | SU 1729 0.58 | | TU 1814 0.66 | | WE 1715 0.75 | |
| 2325 1.51 | | 2358 1.45 | | | | | | | | 2353 1.66 | | | | 2343 1.68 | |
| 13 0501 0.46 | | 28 0537 0.60 | | 13 0041 1.68 | | 28 0031 1.54 | | 13 0017 1.83 | | 28 0615 0.58 | | 13 0042 1.78 | | 28 0629 0.61 | |
| 1129 1.91 | | 1153 1.67 | | 0641 0.45 | | 0637 0.63 | | 0633 0.38 | | 1216 1.44 | | 0730 0.51 | | 1234 1.35 | |
| WE 1801 0.24 | | TH 1818 0.44 | | SA 1252 1.68 | | SU 1238 1.46 | | SU 1243 1.61 | | MO 1803 0.64 | | WE 1339 1.37 | | TH 1803 0.79 | |
| | | | | 1909 0.35 | | 1843 0.57 | | 1844 0.43 | | | | 1915 0.75 | | | |
| 14 0014 1.52 | | 29 0034 1.44 | | 14 0134 1.67 | | 29 0112 1.52 | | 14 0110 1.79 | | 29 0031 1.63 | | 14 0144 1.68 | | 29 0033 1.64 | |
| 0554 0.49 | | 0619 0.65 | | 0743 0.52 | | 0725 0.68 | | 0735 0.46 | | 0700 0.62 | | 0837 0.57 | | 0725 0.62 | |
| TH 1215 1.83 | | FR 1229 1.57 | | SU 1347 1.53 | | MO 1321 1.37 | | MO 1341 1.47 | | TU 1300 1.37 | | TH 1451 1.34 | | FR 1334 1.34 | |
| 1847 0.28 | | 1852 0.49 | | 2000 0.45 | | 1921 0.64 | | 1935 0.55 | | 1842 0.70 | | ☾ 2024 0.81 | | 1904 0.82 | |
| 15 0104 1.54 | | 30 0115 1.44 | | 15 0232 1.65 | | | | 15 0207 1.72 | | 30 0114 1.59 | | 15 0251 1.61 | | 30 0133 1.61 | |
| 0650 0.54 | | 0705 0.70 | | 0852 0.58 | | | | 0845 0.53 | | 0752 0.66 | | 0942 0.60 | | 0826 0.61 | |
| FR 1305 1.73 | | SA 1307 1.47 | | MO 1452 1.39 | | | | TU 1446 1.35 | | WE 1351 1.31 | | FR 1601 1.37 | | SA 1442 1.37 | |
| 1936 0.33 | | 1930 0.54 | | ☾ 2058 0.54 | | | | 2035 0.65 | | 1929 0.76 | | 2138 0.81 | | ☾ 2016 0.82 | |
| | | | | | | | | | | | | | | | |
| | | 31 0200 1.43 | | | | | | 31 0206 1.55 | | | | | | | |
| | | 0759 0.74 | | | | | | 0853 0.68 | | | | | | | |
| | | SU 1353 1.38 | | | | | | TH 1454 1.27 | | | | | | | |
| | | 2012 0.59 | | | | | | 2030 0.80 | | | | | | | |

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Datum of Predictions is Lowest Astronomical Tide

Times are in local standard time (UTC +10:00) or daylight savings time (UTC +11:00) when in effect

Moon Phase Symbols ● New Moon ☾ First Quarter ○ Full Moon ☾ Last Quarter

NEWCASTLE – NEW SOUTH WALES

LAT 32° 56' LONG 151° 47'

Times and Heights of High and Low Waters

2016

Local Time

| MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | |
|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 0243 | 1.61 | 16 0415 | 1.49 | 1 0426 | 1.63 | 16 0515 | 1.39 | 1 0512 | 1.49 | 16 0531 | 1.30 | 1 0106 | 0.34 | 16 0049 | 0.44 |
| 0927 | 0.56 | 1035 | 0.64 | 1040 | 0.45 | 1110 | 0.64 | 1106 | 0.47 | 1115 | 0.63 | 0705 | 1.43 | 0644 | 1.35 |
| SU 1547 | 1.45 | MO 1709 | 1.54 | WE 1711 | 1.77 | TH 1750 | 1.67 | FR 1744 | 1.88 | SA 1757 | 1.69 | MO 1241 | 0.47 | TU 1220 | 0.53 |
| 2130 | 0.77 | 2313 | 0.78 | 2324 | 0.55 | | | | | | | 1915 | 1.93 | 1853 | 1.79 |
| 2 0351 | 1.64 | 17 0507 | 1.49 | 2 0528 | 1.64 | 17 0018 | 0.66 | 2 0017 | 0.44 | 17 0036 | 0.57 | 2 0153 | 0.29 | 17 0129 | 0.35 |
| 1023 | 0.50 | 1118 | 0.63 | 1131 | 0.42 | 0603 | 1.40 | 0614 | 1.50 | 0622 | 1.34 | 0756 | 1.46 | 0728 | 1.42 |
| MO 1646 | 1.57 | TU 1751 | 1.61 | TH 1803 | 1.89 | FR 1151 | 0.63 | SA 1200 | 0.46 | SU 1200 | 0.61 | TU 1331 | 0.46 | WE 1305 | 0.47 |
| 2239 | 0.67 | | | 1830 | 1.73 | 1830 | 1.73 | 1837 | 1.97 | 1839 | 1.76 | 2002 | 1.94 | 1935 | 1.86 |
| 3 0453 | 1.70 | 18 0003 | 0.71 | 3 0025 | 0.44 | 18 0101 | 0.59 | 3 0115 | 0.35 | 18 0117 | 0.49 | 3 0237 | 0.27 | 18 0207 | 0.27 |
| 1115 | 0.43 | 0554 | 1.49 | 0626 | 1.64 | 0649 | 1.42 | 0713 | 1.51 | 0708 | 1.37 | 0842 | 1.49 | 0810 | 1.49 |
| TU 1739 | 1.70 | WE 1157 | 0.61 | FR 1222 | 0.41 | SA 1230 | 0.61 | SU 1253 | 0.46 | MO 1243 | 0.57 | WE 1418 | 0.46 | TH 1349 | 0.41 |
| 2340 | 0.55 | 1829 | 1.68 | 1854 | 2.00 | 1907 | 1.79 | 1929 | 2.02 | 1919 | 1.82 | ● 2045 | 1.91 | ○ 2017 | 1.90 |
| 4 0550 | 1.75 | 19 0046 | 0.65 | 4 0122 | 0.35 | 19 0141 | 0.53 | 4 0206 | 0.29 | 19 0156 | 0.42 | 4 0317 | 0.28 | 19 0246 | 0.22 |
| 1204 | 0.37 | 0637 | 1.50 | 0724 | 1.63 | 0732 | 1.43 | 0808 | 1.51 | 0751 | 1.41 | 0925 | 1.50 | 0853 | 1.56 |
| WE 1829 | 1.83 | TH 1232 | 0.60 | SA 1313 | 0.42 | SU 1309 | 0.61 | MO 1345 | 0.47 | TU 1325 | 0.54 | TH 1502 | 0.49 | FR 1435 | 0.38 |
| | | 1904 | 1.74 | 1945 | 2.07 | 1945 | 1.84 | ● 2018 | 2.04 | 2000 | 1.87 | 2127 | 1.85 | 2100 | 1.91 |
| 5 0037 | 0.43 | 20 0125 | 0.59 | 5 0216 | 0.29 | 20 0218 | 0.48 | 5 0256 | 0.27 | 20 0234 | 0.36 | 5 0355 | 0.32 | 20 0327 | 0.19 |
| 0645 | 1.77 | 0718 | 1.50 | 0821 | 1.61 | 0814 | 1.44 | 0900 | 1.51 | 0834 | 1.45 | 1006 | 1.50 | 0938 | 1.61 |
| TH 1252 | 0.34 | FR 1307 | 0.59 | SU 1403 | 0.45 | MO 1348 | 0.60 | TU 1434 | 0.50 | WE 1407 | 0.51 | FR 1545 | 0.53 | SA 1524 | 0.36 |
| 1916 | 1.95 | 1938 | 1.79 | ● 2035 | 2.10 | ○ 2022 | 1.87 | 2105 | 2.02 | ○ 2040 | 1.91 | 2204 | 1.77 | 2145 | 1.88 |
| 6 0132 | 0.34 | 21 0202 | 0.54 | 6 0310 | 0.27 | 21 0257 | 0.44 | 6 0342 | 0.29 | 21 0314 | 0.32 | 6 0430 | 0.37 | 21 0409 | 0.20 |
| 0740 | 1.76 | 0758 | 1.50 | 0916 | 1.58 | 0856 | 1.45 | 0950 | 1.51 | 0917 | 1.48 | 1045 | 1.49 | 1024 | 1.65 |
| FR 1339 | 0.34 | SA 1341 | 0.60 | MO 1454 | 0.50 | TU 1428 | 0.60 | WE 1523 | 0.54 | TH 1451 | 0.50 | SA 1627 | 0.58 | SU 1615 | 0.38 |
| 2005 | 2.04 | 2012 | 1.83 | 2124 | 2.08 | 2100 | 1.89 | 2150 | 1.95 | 2121 | 1.92 | 2241 | 1.67 | 2232 | 1.80 |
| 7 0227 | 0.28 | 22 0239 | 0.50 | 7 0401 | 0.29 | 22 0336 | 0.42 | 7 0427 | 0.33 | 22 0354 | 0.29 | 7 0505 | 0.43 | 22 0453 | 0.24 |
| 0835 | 1.73 | 0837 | 1.49 | 1011 | 1.55 | 0939 | 1.46 | 1037 | 1.49 | 1001 | 1.51 | 1124 | 1.48 | 1112 | 1.67 |
| SA 1428 | 0.37 | SU 1415 | 0.61 | TU 1545 | 0.56 | WE 1509 | 0.61 | TH 1610 | 0.59 | FR 1538 | 0.50 | SU 1710 | 0.63 | MO 1710 | 0.42 |
| ● 2054 | 2.08 | ○ 2046 | 1.85 | 2213 | 2.02 | 2140 | 1.89 | 2233 | 1.86 | 2203 | 1.89 | 2317 | 1.56 | 2322 | 1.68 |
| 8 0321 | 0.26 | 23 0316 | 0.49 | 8 0453 | 0.34 | 23 0416 | 0.41 | 8 0509 | 0.39 | 23 0436 | 0.29 | 8 0540 | 0.48 | 23 0539 | 0.31 |
| 0930 | 1.67 | 0917 | 1.48 | 1103 | 1.50 | 1023 | 1.46 | 1122 | 1.47 | 1047 | 1.54 | 1203 | 1.47 | 1203 | 1.67 |
| SU 1516 | 0.44 | MO 1452 | 0.63 | WE 1635 | 0.63 | TH 1553 | 0.62 | FR 1657 | 0.65 | SA 1627 | 0.52 | MO 1757 | 0.68 | TU 1810 | 0.47 |
| 2144 | 2.07 | 2122 | 1.85 | 2300 | 1.92 | 2221 | 1.87 | 2315 | 1.75 | 2248 | 1.83 | 2357 | 1.46 | | |
| 9 0416 | 0.28 | 24 0355 | 0.48 | 9 0543 | 0.41 | 24 0500 | 0.41 | 9 0550 | 0.46 | 24 0520 | 0.31 | 9 0616 | 0.54 | 24 0016 | 1.54 |
| 1026 | 1.60 | 0959 | 1.46 | 1155 | 1.47 | 1109 | 1.47 | 1206 | 1.45 | 1135 | 1.56 | 1247 | 1.46 | 0630 | 0.40 |
| MO 1606 | 0.52 | TU 1530 | 0.66 | TH 1727 | 0.71 | FR 1641 | 0.65 | SA 1744 | 0.72 | SU 1720 | 0.55 | TU 1849 | 0.73 | WE 1259 | 1.65 |
| 2233 | 2.02 | 2159 | 1.84 | 2346 | 1.80 | 2304 | 1.82 | 2355 | 1.63 | 2336 | 1.74 | | | 1917 | 0.53 |
| 10 0512 | 0.34 | 25 0436 | 0.49 | 10 0631 | 0.49 | 25 0545 | 0.42 | 10 0630 | 0.53 | 25 0606 | 0.35 | 10 0043 | 1.36 | 25 0119 | 1.40 |
| 1122 | 1.52 | 1042 | 1.44 | 1246 | 1.44 | 1158 | 1.48 | 1251 | 1.44 | 1227 | 1.57 | 0659 | 0.59 | 0725 | 0.49 |
| TU 1658 | 0.62 | WE 1611 | 0.70 | FR 1819 | 0.78 | SA 1733 | 0.68 | SU 1835 | 0.77 | MO 1818 | 0.59 | WE 1336 | 1.45 | TH 1401 | 1.64 |
| 2324 | 1.93 | 2239 | 1.81 | | | 2352 | 1.76 | | | | | 1952 | 0.76 | ● 2033 | 0.55 |
| 11 0609 | 0.42 | 26 0520 | 0.51 | 11 0034 | 1.67 | 26 0633 | 0.44 | 11 0038 | 1.51 | 26 0029 | 1.63 | 11 0138 | 1.27 | 26 0233 | 1.30 |
| 1219 | 1.46 | 1128 | 1.42 | 0719 | 0.56 | 1251 | 1.50 | 0711 | 0.58 | 0656 | 0.40 | 0747 | 0.64 | 0828 | 0.55 |
| WE 1752 | 0.72 | TH 1656 | 0.73 | SA 1339 | 1.43 | SU 1831 | 0.70 | MO 1339 | 1.44 | TU 1323 | 1.59 | TH 1432 | 1.46 | FR 1509 | 1.65 |
| | | 2321 | 1.77 | 1916 | 0.83 | | | 1932 | 0.81 | 1924 | 0.62 | ● 2103 | 0.75 | 2154 | 0.53 |
| 12 0015 | 1.81 | 27 0608 | 0.53 | 12 0125 | 1.56 | 27 0045 | 1.68 | 12 0127 | 1.41 | 27 0129 | 1.51 | 12 0245 | 1.21 | 27 0353 | 1.27 |
| 0706 | 0.50 | 1218 | 1.41 | 0806 | 0.61 | 0725 | 0.46 | 0755 | 0.62 | 0749 | 0.46 | 0845 | 0.67 | 0935 | 0.58 |
| TH 1319 | 1.41 | FR 1747 | 0.77 | SU 1434 | 1.44 | MO 1348 | 1.54 | TU 1432 | 1.46 | WE 1424 | 1.62 | FR 1532 | 1.49 | SA 1616 | 1.68 |
| 1851 | 0.80 | | | ● 2020 | 0.86 | 1937 | 0.71 | ● 2038 | 0.82 | ● 2039 | 0.63 | 2215 | 0.70 | 2305 | 0.47 |
| 13 0112 | 1.69 | 28 0010 | 1.72 | 13 0221 | 1.47 | 28 0146 | 1.60 | 13 0226 | 1.34 | 28 0239 | 1.41 | 13 0358 | 1.20 | 28 0504 | 1.30 |
| 0803 | 0.57 | 0700 | 0.54 | 0853 | 0.64 | 0818 | 0.47 | 0844 | 0.64 | 0847 | 0.50 | 0945 | 0.67 | 1041 | 0.56 |
| FR 1422 | 1.40 | SA 1315 | 1.42 | MO 1530 | 1.48 | TU 1449 | 1.60 | WE 1528 | 1.50 | TH 1528 | 1.68 | SA 1630 | 1.55 | SU 1718 | 1.73 |
| 1955 | 0.85 | 1846 | 0.79 | 2127 | 0.85 | ● 2049 | 0.69 | 2148 | 0.79 | 2158 | 0.59 | 2316 | 0.63 | | |
| 14 0212 | 1.59 | 29 0107 | 1.67 | 14 0321 | 1.41 | 29 0256 | 1.54 | 14 0330 | 1.29 | 29 0354 | 1.36 | 14 0503 | 1.23 | 29 0003 | 0.40 |
| 0859 | 0.62 | 0754 | 0.54 | 0940 | 0.65 | 0915 | 0.48 | 0935 | 0.65 | 0949 | 0.52 | 1042 | 0.64 | 0604 | 1.35 |
| SA 1525 | 1.42 | SU 1415 | 1.46 | TU 1621 | 1.53 | WE 1550 | 1.68 | TH 1621 | 1.55 | FR 1630 | 1.74 | SU 1723 | 1.62 | MO 1141 | 0.53 |
| ● 2104 | 0.86 | ● 1954 | 0.79 | 2232 | 0.81 | 2204 | 0.63 | 2254 | 0.73 | 2311 | 0.51 | | | 1813 | 1.78 |
| 15 0315 | 1.52 | 30 0212 | 1.63 | 15 0420 | 1.39 | 30 0405 | 1.50 | 15 0435 | 1.29 | 30 0505 | 1.36 | 15 0007 | 0.53 | 30 0052 | 0.35 |
| 0949 | 0.64 | 0851 | 0.51 | 1026 | 0.65 | 1011 | 0.48 | 1027 | 0.65 | 1049 | 0.52 | 0557 | 1.29 | 0655 | 1.41 |
| SU 1620 | 1.47 | MO 1517 | 1.54 | WE 1708 | 1.60 | TH 1648 | 1.78 | FR 1711 | 1.62 | SA 1730 | 1.82 | MO 1133 | 0.59 | TU 1233 | 0.49 |
| 2213 | 0.84 | 2107 | 0.74 | 2330 | 0.74 | 2315 | 0.54 | 2349 | 0.65 | | | 1810 | 1.71 | 1900 | 1.80 |
| | | 31 0320 | 1.62 | | | | | 31 0013 | 0.42 | | | 31 0133 | 0.31 | | |
| | | 0946 | 0.48 | | | | | 0609 | 1.39 | | | 0739 | 1.47 | | |
| | | TU 1616 | 1.65 | | | | | SU 1147 | 0.50 | | | WE 1320 | 0.45 | | |
| | | 2218 | 0.66 | | | | | 1825 | 1.88 | | | 1944 | 1.81 | | |

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Datum of Predictions is Lowest Astronomical Tide

Times are in local standard time (UTC +10:00) or daylight savings time (UTC +11:00) when in effect

Moon Phase Symbols ● New Moon ○ First Quarter ○ Full Moon ● Last Quarter

NEWCASTLE – NEW SOUTH WALES

LAT 32° 56' LONG 151° 47'

Times and Heights of High and Low Waters

2016

Local Time

| SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | | DECEMBER | | | |
|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m | Time | m |
| 1 | 0211 0.29 | 16 | 0134 0.22 | 1 | 0209 0.36 | 16 | 0242 0.18 | 1 | 0330 0.47 | 16 | 0346 0.31 | 1 | 0335 0.54 | 16 | 0418 0.42 |
| | 0819 1.51 | | 0744 1.60 | | 0827 1.60 | | 0902 1.84 | | 1000 1.73 | | 1017 2.05 | | 1009 1.80 | | 1051 2.04 |
| TH | 1403 0.44 | FR | 1333 0.34 | SA | 1427 0.44 | SU | 1510 0.22 | TU | 1623 0.42 | WE | 1649 0.16 | TH | 1644 0.39 | FR | 1730 0.19 |
| ● | 2023 1.78 | | 1954 1.86 | ● | 2034 1.60 | ○ | 2121 1.77 | | 2222 1.43 | | 2257 1.54 | | 2243 1.37 | | 2338 1.47 |
| 2 | 0245 0.30 | 17 | 0215 0.16 | 2 | 0339 0.38 | 17 | 0326 0.18 | 2 | 0403 0.51 | 17 | 0437 0.39 | 2 | 0413 0.57 | 17 | 0511 0.49 |
| | 0857 1.53 | | 0828 1.69 | | 1000 1.63 | | 0948 1.92 | | 1033 1.73 | | 1108 2.02 | | 1045 1.79 | | 1140 1.96 |
| FR | 1444 0.45 | SA | 1421 0.28 | SU | 1603 0.44 | MO | 1602 0.18 | WE | 1700 0.43 | TH | 1745 0.19 | FR | 1723 0.40 | SA | 1820 0.25 |
| | 2100 1.73 | ○ | 2040 1.86 | | 2209 1.56 | | 2213 1.71 | | 2300 1.39 | | 2354 1.47 | | 2324 1.35 | | |
| 3 | 0318 0.33 | 18 | 0256 0.15 | 3 | 0408 0.41 | 18 | 0412 0.23 | 3 | 0438 0.55 | 18 | 0530 0.48 | 3 | 0452 0.61 | 18 | 0031 1.43 |
| | 0933 1.54 | | 0913 1.76 | | 1032 1.64 | | 1037 1.95 | | 1109 1.71 | | 1159 1.94 | | 1123 1.76 | | 0603 0.57 |
| SA | 1522 0.47 | SU | 1513 0.25 | MO | 1640 0.45 | TU | 1658 0.19 | TH | 1741 0.45 | FR | 1842 0.26 | SA | 1803 0.42 | SU | 1228 1.84 |
| | 2135 1.66 | | 2128 1.81 | | 2244 1.50 | | 2307 1.62 | | 2342 1.34 | | | | | | 1910 0.34 |
| 4 | 0349 0.37 | 19 | 0340 0.18 | 4 | 0439 0.45 | 19 | 0500 0.31 | 4 | 0515 0.61 | 19 | 0052 1.41 | 4 | 0008 1.33 | 19 | 0124 1.40 |
| | 1008 1.55 | | 1000 1.80 | | 1105 1.64 | | 1127 1.93 | | 1145 1.68 | | 0626 0.58 | | 0534 0.65 | | 0658 0.65 |
| SU | 1601 0.50 | MO | 1605 0.27 | TU | 1719 0.48 | WE | 1755 0.23 | FR | 1824 0.49 | SA | 1251 1.83 | SU | 1202 1.72 | MO | 1315 1.70 |
| | 2210 1.58 | | 2218 1.71 | | 2321 1.43 | | | | | | 1940 0.34 | | 1847 0.44 | | 1959 0.42 |
| 5 | 0420 0.42 | 20 | 0425 0.25 | 5 | 0511 0.51 | 20 | 0003 1.51 | 5 | 0027 1.30 | 20 | 0153 1.36 | 5 | 0056 1.32 | 20 | 0218 1.38 |
| | 1043 1.54 | | 1048 1.80 | | 1140 1.62 | | 0550 0.42 | | 0556 0.66 | | 0725 0.67 | | 0622 0.69 | | 0755 0.73 |
| MO | 1642 0.55 | TU | 1702 0.31 | WE | 1800 0.51 | TH | 1218 1.87 | SA | 1227 1.63 | SU | 1346 1.70 | MO | 1246 1.66 | TU | 1403 1.56 |
| | 2246 1.49 | | 2312 1.59 | | 1856 0.30 | | | | 1912 0.52 | | 2039 0.42 | | 1935 0.46 | | 2046 0.49 |
| 6 | 0452 0.48 | 21 | 0514 0.35 | 6 | 0000 1.36 | 21 | 0103 1.41 | 6 | 0117 1.26 | 21 | 0258 1.34 | 6 | 0149 1.32 | 21 | 0315 1.38 |
| | 1119 1.53 | | 1140 1.78 | | 0546 0.57 | | 0645 0.53 | | 0645 0.72 | | 0830 0.73 | | 0717 0.72 | | 0857 0.78 |
| TU | 1725 0.59 | WE | 1803 0.38 | TH | 1217 1.59 | FR | 1314 1.79 | SU | 1314 1.58 | MO | 1445 1.58 | TU | 1336 1.61 | WE | 1457 1.44 |
| | 2325 1.40 | | | | 1846 0.56 | | 2000 0.38 | | 2005 0.54 | ● | 2136 0.48 | | 2027 0.46 | ● | 2134 0.54 |
| 7 | 0528 0.54 | 22 | 0010 1.45 | 7 | 0045 1.29 | 22 | 0210 1.33 | 7 | 0215 1.25 | 22 | 0402 1.36 | 7 | 0248 1.35 | 22 | 0412 1.41 |
| | 1159 1.51 | | 0606 0.46 | | 0627 0.64 | | 0747 0.63 | | 0742 0.76 | | 0939 0.76 | | 0820 0.74 | | 1004 0.79 |
| WE | 1815 0.64 | TH | 1236 1.72 | FR | 1300 1.54 | SA | 1415 1.69 | MO | 1408 1.53 | TU | 1549 1.49 | WE | 1435 1.56 | TH | 1557 1.35 |
| | | | 1912 0.44 | | 1939 0.60 | | 2109 0.44 | | 2105 0.54 | | 2230 0.51 | ● | 2121 0.45 | | 2222 0.57 |
| 8 | 0009 1.31 | 23 | 0115 1.33 | 8 | 0138 1.23 | 23 | 0323 1.29 | 8 | 0321 1.27 | 23 | 0501 1.41 | 8 | 0349 1.42 | 23 | 0506 1.46 |
| | 0608 0.60 | | 0705 0.56 | | 0715 0.70 | | 0856 0.69 | | 0850 0.77 | | 1049 0.75 | | 0930 0.72 | | 1114 0.77 |
| TH | 1245 1.48 | FR | 1339 1.66 | SA | 1350 1.50 | SU | 1522 1.60 | TU | 1514 1.51 | WE | 1651 1.43 | TH | 1542 1.52 | FR | 1659 1.30 |
| | 1912 0.68 | ● | 2027 0.48 | | 2040 0.62 | ● | 2216 0.47 | ● | 2205 0.50 | | 2319 0.52 | | 2217 0.43 | | 2310 0.58 |
| 9 | 0102 1.23 | 24 | 0232 1.26 | 9 | 0241 1.19 | 24 | 0435 1.31 | 9 | 0426 1.34 | 24 | 0552 1.47 | 9 | 0449 1.52 | 24 | 0555 1.53 |
| | 0656 0.66 | | 0813 0.63 | | 0815 0.74 | | 1009 0.71 | | 1002 0.73 | | 1154 0.71 | | 1044 0.66 | | 1217 0.71 |
| FR | 1339 1.46 | SA | 1448 1.63 | SU | 1451 1.47 | MO | 1630 1.55 | WE | 1621 1.53 | TH | 1748 1.40 | FR | 1650 1.51 | SA | 1759 1.29 |
| ● | 2020 0.69 | | 2142 0.48 | ● | 2147 0.61 | | 2316 0.47 | | 2300 0.44 | | | | 2312 0.39 | | 2356 0.58 |
| 10 | 0209 1.18 | 25 | 0351 1.26 | 10 | 0353 1.20 | 25 | 0537 1.37 | 10 | 0524 1.45 | 25 | 0002 0.52 | 10 | 0545 1.65 | 25 | 0639 1.60 |
| | 0756 0.70 | | 0926 0.65 | | 0926 0.75 | | 1119 0.69 | | 1112 0.65 | | 0636 1.54 | | 1153 0.56 | | 1311 0.64 |
| SA | 1442 1.46 | SU | 1559 1.62 | MO | 1600 1.48 | TU | 1733 1.53 | TH | 1725 1.57 | FR | 1249 0.65 | SA | 1756 1.52 | SU | 1852 1.30 |
| | 2133 0.66 | | 2248 0.46 | | 2252 0.55 | | | | 2351 0.37 | | 1839 1.40 | | | | |
| 11 | 0325 1.17 | 26 | 0458 1.32 | 11 | 0501 1.26 | 26 | 0007 0.46 | 11 | 0615 1.58 | 26 | 0042 0.51 | 11 | 0003 0.36 | 26 | 0039 0.57 |
| | 0904 0.71 | | 1034 0.62 | | 1037 0.71 | | 0628 1.44 | | 1214 0.53 | | 0715 1.61 | | 0637 1.78 | | 0720 1.66 |
| SU | 1546 1.50 | MO | 1700 1.64 | TU | 1704 1.54 | WE | 1220 0.64 | FR | 1823 1.62 | SA | 1335 0.58 | SU | 1258 0.44 | MO | 1356 0.56 |
| | 2238 0.59 | | 2342 0.42 | | 2346 0.47 | | 1827 1.53 | | | | 1923 1.40 | | 1857 1.53 | | 1939 1.32 |
| 12 | 0433 1.22 | 27 | 0551 1.39 | 12 | 0559 1.36 | 27 | 0049 0.45 | 12 | 0039 0.30 | 27 | 0117 0.50 | 12 | 0055 0.33 | 27 | 0119 0.55 |
| | 1010 0.67 | | 1134 0.57 | | 1141 0.62 | | 0710 1.52 | | 0703 1.72 | | 0752 1.68 | | 0729 1.90 | | 0759 1.72 |
| MO | 1645 1.57 | TU | 1754 1.66 | WE | 1801 1.62 | TH | 1312 0.58 | SA | 1311 0.41 | SU | 1416 0.52 | MO | 1357 0.32 | TU | 1435 0.49 |
| | 2330 0.50 | | | | 1913 1.53 | | | | 1917 1.66 | | 2005 1.40 | | 1956 1.54 | | 2023 1.34 |
| 13 | 0530 1.30 | 28 | 0027 0.38 | 13 | 0033 0.37 | 28 | 0126 0.43 | 13 | 0125 0.26 | 28 | 0152 0.50 | 13 | 0145 0.32 | 28 | 0158 0.54 |
| | 1108 0.60 | | 0636 1.46 | | 0646 1.48 | | 0748 1.58 | | 0750 1.85 | | 0827 1.73 | | 0819 2.00 | | 0836 1.78 |
| TU | 1737 1.66 | WE | 1225 0.52 | TH | 1236 0.51 | FR | 1355 0.52 | SU | 1406 0.30 | MO | 1454 0.47 | TU | 1452 0.23 | WE | 1513 0.43 |
| | | | 1840 1.67 | | 1853 1.70 | | 1954 1.52 | | 2011 1.67 | | 2045 1.40 | | 2053 1.54 | | 2104 1.36 |
| 14 | 0015 0.39 | 29 | 0104 0.36 | 14 | 0117 0.28 | 29 | 0159 0.43 | 14 | 0211 0.24 | 29 | 0226 0.50 | 14 | 0236 0.33 | 29 | 0236 0.53 |
| | 0617 1.39 | | 0716 1.52 | | 0732 1.61 | | 0823 1.64 | | 0838 1.96 | | 0900 1.77 | | 0910 2.06 | | 0913 1.81 |
| WE | 1159 0.51 | TH | 1309 0.47 | FR | 1328 0.40 | SA | 1434 0.48 | MO | 1500 0.21 | TU | 1530 0.43 | WE | 1546 0.17 | TH | 1549 0.39 |
| | 1824 1.75 | | 1921 1.66 | | 1943 1.76 | | 2031 1.51 | ○ | 2105 1.65 | ● | 2124 1.40 | ○ | 2149 1.53 | ● | 2145 1.38 |
| 15 | 0055 0.30 | 30 | 0138 0.35 | 15 | 0159 0.21 | 30 | 0230 0.43 | 15 | 0258 0.26 | 30 | 0300 0.52 | 15 | 0327 0.37 | 30 | 0315 0.53 |
| | 0700 1.50 | | 0753 1.57 | | 0816 1.74 | | 0856 1.68 | | 0927 2.03 | | 0934 1.79 | | 1000 2.08 | | 0949 1.84 |
| TH | 1245 0.42 | FR | 1349 0.45 | SA | 1418 0.30 | SU | 1511 0.45 | TU | 1555 0.16 | WE | 1606 0.40 | TH | 1638 0.16 | FR | 1626 0.36 |
| | 1909 1.82 | | 1959 1.64 | | 2031 1.79 | | 2108 1.49 | | 2200 1.61 | | 2202 1.39 | | 2245 1.50 | | 2224 1.39 |
| | | | | 31 | 0300 0.44 | | | | | | | | | 31 | 0353 0.54 |
| | | | | | 0928 1.71 | | | | | | | | | | 1027 1.84 |
| | | | | | MO 1546 0.43 | | | | | | | | | | SA 1703 0.35 |
| | | | | | ● 2145 1.47 | | | | | | | | | | 2305 1.40 |

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Datum of Predictions is Lowest Astronomical Tide

Times are in local standard time (UTC +10:00) or daylight savings time (UTC +11:00) when in effect

Moon Phase Symbols ● New Moon ○ First Quarter ○ Full Moon ● Last Quarter