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MACKAY OUTER HARBOUR – QUEENSLAND

LAT 21° 7' S LONG 149° 14' E

Times and Heights of High and Low Waters

2023

Local Time

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1	0048 1.12	16	0600 4.41	1	0215 1.40	16	0112 1.47	1	0058 2.01	16	0620 4.91	1	0215 1.70	16	0155 1.20
	0712 4.96		1216 2.21		0839 5.35		0746 5.34		0729 4.89		1315 1.82		0823 5.21		0805 5.79
SU	1330 1.74	MO	1805 4.28	WE	1515 1.51	TH	1428 1.51	WE	1415 1.80	TH	1904 4.09	SA	1453 1.33	SU	1444 0.72
	1919 4.58				2102 4.33		2011 4.42		2006 4.08				2051 4.59		2040 5.17
2	0143 1.05	17	0034 1.43	2	0301 1.27	17	0215 1.11	2	0200 1.74	17	0101 1.63	2	0250 1.45	17	0247 0.89
	0806 5.24		0704 4.86		0920 5.53		0842 5.82		0818 5.19		0732 5.41		0855 5.38		0850 5.95
MO	1431 1.58	TU	1330 1.88	TH	1554 1.36	FR	1523 1.09	TH	1456 1.51	FR	1419 1.30	SU	1522 1.19	MO	1526 0.51
	2015 4.50		1912 4.37		2142 4.42		2106 4.74		2049 4.36		2008 4.56		2118 4.79		2121 5.48
3	0230 1.00	18	0132 1.15	3	0339 1.18	18	0312 0.76	3	0245 1.49	18	0209 1.19	3	0321 1.27	18	0334 0.72
	0853 5.46		0801 5.33		0956 5.62		0930 6.21		0858 5.41		0828 5.86		0924 5.49		0930 5.96
TU	1522 1.44	WE	1432 1.52	FR	1628 1.29	SA	1612 0.77	FR	1530 1.33	SA	1509 0.89	MO	1549 1.07	TU	1603 0.40
	2104 4.44		2013 4.51		2215 4.48		2155 5.02		2123 4.55		2058 4.97		2145 4.97		2200 5.71
4	0312 0.98	19	0226 0.89	4	0413 1.12	19	0403 0.47	4	0321 1.30	19	0303 0.80	4	0351 1.14	19	0416 0.67
	0933 5.60		0853 5.77		1027 5.66		1015 6.48		0930 5.55		0914 6.18		0951 5.54		1009 5.83
WE	1605 1.35	TH	1529 1.19	SA	1659 1.28	SU	1656 0.54	SA	1600 1.23	SU	1552 0.60	TU	1615 0.96	WE	1637 0.38
	2147 4.39		2109 4.65		2244 4.51		2240 5.25		2152 4.68		2141 5.29		2212 5.13		2237 5.86

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Datum of Predictions is Lowest Astronomical Tide

Times are in local standard time (Time Zone UTC +10:00)

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

MACKAY OUTER HARBOUR – QUEENSLAND

LAT 21° 7' S LONG 149° 14' E

Times and Heights of High and Low Waters

2023

Local Time

MAY				JUNE				JULY				AUGUST				
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1 0208 1.66 0807 5.11 MO 1435 1.17 2038 4.81		16 0229 1.10 0823 5.49 TU 1455 0.55 2100 5.54		1 0248 1.45 0833 4.85 TH 1455 0.80 2110 5.41		16 0355 1.22 0934 4.56 FR 1545 0.77 2204 5.72		1 0315 1.30 0854 4.49 SA 1507 0.70 2130 5.74		16 0432 1.16 1015 4.25 SU 1615 0.96 2232 5.60		1 0447 0.64 1028 4.73 TU 1635 0.27 2251 6.35		16 0515 1.05 1100 4.41 WE 1701 0.91 ● 2312 5.48		
2 0244 1.45 0840 5.21 TU 1505 0.98 2108 5.07		17 0317 1.01 0906 5.36 WE 1532 0.51 2140 5.73		2 0332 1.28 0915 4.82 FR 1532 0.68 2148 5.66		17 0438 1.20 1017 4.41 SA 1622 0.85 2243 5.71		2 0406 1.08 0944 4.53 SU 1554 0.56 2216 5.98		17 0509 1.16 1052 4.22 MO 1648 0.99 2306 5.54		2 0533 0.44 1116 4.89 WE 1724 0.16 ○ 2337 6.43		17 0541 1.06 1126 4.43 TH 1727 0.94 2337 5.41		
3 0319 1.29 0912 5.24 WE 1534 0.83 2140 5.32		18 0401 0.99 0946 5.16 TH 1607 0.54 2217 5.85		3 0415 1.15 0956 4.74 SA 1611 0.61 2228 5.85		18 0517 1.24 1058 4.26 SU 1657 0.97 ● 2318 5.62		3 0456 0.91 1034 4.57 MO 1642 0.47 ○ 2302 6.15		18 0541 1.21 1124 4.19 TU 1718 1.04 ● 2336 5.46		3 0618 0.34 1204 4.98 TH 1811 0.20		18 0605 1.08 1151 4.45 FR 1753 1.03		
4 0356 1.18 0945 5.20 TH 1605 0.73 2213 5.52		19 0444 1.04 1026 4.92 FR 1641 0.64 2255 5.86		4 0501 1.08 1040 4.64 SU 1650 0.62 ○ 2310 5.94		19 0555 1.33 1136 4.12 MO 1729 1.13 2353 5.46		4 0545 0.78 1126 4.60 TU 1730 0.44 2350 6.21		19 0611 1.27 1152 4.16 WE 1746 1.11		4 0022 6.32 0701 0.36 FR 1251 4.98 1858 0.41		19 0002 5.28 0629 1.12 SA 1217 4.44 1821 1.20		
5 0432 1.13 1018 5.09 FR 1636 0.69 2246 5.66		20 0523 1.15 1104 4.63 SA 1713 0.81 ● 2331 5.75		5 0548 1.08 1128 4.50 MO 1733 0.70 2355 5.93		20 0630 1.45 1210 3.98 TU 1800 1.29		5 0635 0.72 1218 4.61 WE 1820 0.50		20 0005 5.36 0638 1.34 TH 1219 4.13 1814 1.20		5 0106 6.02 0745 0.50 SA 1340 4.90 1945 0.78		20 0028 5.06 0652 1.20 SU 1247 4.37 1851 1.45		
6 0511 1.15 1054 4.91 SA 1709 0.73 ○ 2321 5.71		21 0602 1.33 1143 4.32 SU 1744 1.07		6 0639 1.13 1219 4.35 TU 1819 0.86		21 0026 5.27 0704 1.59 WE 1244 3.87 1830 1.47		6 0039 6.15 0725 0.72 TH 1311 4.58 1911 0.67		21 0032 5.23 0705 1.40 FR 1249 4.10 1844 1.35		6 0152 5.55 0829 0.73 SU 1432 4.77 2036 1.24		21 0053 4.77 0718 1.34 MO 1319 4.27 1924 1.75		
7 0551 1.25 1131 4.66 SU 1742 0.86		22 0007 5.53 0642 1.55 MO 1220 4.01 1814 1.37		7 0045 5.82 0733 1.21 WE 1316 4.21 1912 1.07		22 0100 5.08 0739 1.70 TH 1319 3.78 1904 1.66		7 0129 5.96 0815 0.79 FR 1405 4.54 2003 0.93		22 0101 5.06 0733 1.47 SA 1323 4.04 1916 1.57		7 0241 4.99 0916 1.01 MO 1532 4.63 2139 1.70		22 0121 4.43 0748 1.50 TU 1400 4.16 2007 2.06		
8 0000 5.66 0634 1.41 MO 1214 4.36 1818 1.08		23 0043 5.24 0722 1.79 TU 1300 3.74 1845 1.69		8 0139 5.65 0832 1.27 TH 1420 4.13 2012 1.30		23 0136 4.88 0818 1.80 FR 1403 3.71 1945 1.87		8 0220 5.66 0906 0.90 SA 1504 4.50 2100 1.25		23 0133 4.82 0807 1.57 SU 1403 3.96 1956 1.85		8 0341 4.43 1015 1.27 TU 1646 4.58 ● 2306 1.98		23 0159 4.05 0830 1.68 WE 1500 4.07 2118 2.33		
9 0043 5.51 0725 1.61 TU 1305 4.06 1903 1.36		24 0122 4.93 0809 1.99 WE 1347 3.53 1923 1.99		9 0241 5.46 0936 1.27 FR 1530 4.16 2121 1.49		24 0219 4.68 0905 1.86 SA 1459 3.67 2038 2.10		9 0316 5.30 1001 0.99 SU 1610 4.52 2208 1.56		24 0210 4.53 0846 1.66 MO 1455 3.90 2046 2.13		9 0500 4.00 1129 1.42 WE 1809 4.69		24 0306 3.68 0941 1.83 TH 1636 4.14 ● 2316 2.32		
10 0137 5.30 0830 1.77 WE 1415 3.83 2004 1.66		25 0212 4.66 0909 2.12 TH 1454 3.42 2021 2.26		10 0347 5.30 1042 1.19 SA 1645 4.32 2237 1.59		25 0312 4.49 1001 1.85 SU 1606 3.72 2146 2.26		10 0420 4.92 1101 1.06 MO 1721 4.63 ● 2328 1.75		25 0258 4.23 0940 1.72 TU 1605 3.94 2204 2.33		10 0048 1.90 0634 3.86 TH 1246 1.40 1923 4.95		25 0500 3.53 1121 1.76 FR 1809 4.49		
11 0246 5.11 0952 1.77 TH 1544 3.80 2130 1.84		26 0315 4.46 1023 2.11 FR 1617 3.46 2146 2.42		11 0459 5.19 1145 1.05 SU 1756 4.60 ● 2357 1.58		26 0413 4.36 1101 1.75 MO 1717 3.92 ● 2312 2.28		11 0530 4.61 1205 1.07 TU 1831 4.85		26 0408 3.98 1049 1.69 WE 1726 4.16 ● 2344 2.27		11 0206 1.59 0752 3.97 FR 1353 1.26 2019 5.23		26 0053 1.94 0634 3.73 SA 1242 1.45 1919 4.99		
12 0411 5.07 1115 1.55 FR 1715 4.05 2303 1.78		27 0429 4.40 1130 1.96 SA 1735 3.69 2318 2.36		12 0605 5.11 1245 0.90 MO 1859 4.93		27 0518 4.31 1158 1.55 TU 1819 4.25		12 0052 1.74 0642 4.40 WE 1307 1.04 1935 5.11		27 0531 3.90 1200 1.52 TH 1836 4.54		12 0259 1.29 0846 4.15 SA 1445 1.11 2104 5.42		27 0202 1.45 0745 4.08 SU 1346 1.06 2015 5.49		
13 0533 5.21 1226 1.22 SA 1829 4.47 ●		28 0536 4.48 1222 1.72 SU 1831 4.01 ●		13 0110 1.48 0706 5.01 TU 1338 0.78 1954 5.23		28 0028 2.11 0618 4.33 WE 1248 1.31 1913 4.65		13 0205 1.57 0749 4.30 TH 1403 1.00 2030 5.35		28 0104 1.97 0645 3.98 FR 1302 1.26 1936 4.99		13 0341 1.11 0929 4.29 SU 1527 1.00 2142 5.51		28 0258 1.00 0841 4.45 MO 1444 0.68 2105 5.92		
14 0026 1.54 0641 5.40 SU 1323 0.90 1928 4.90		29 0026 2.15 0629 4.62 MO 1304 1.46 1915 4.38		14 0213 1.37 0800 4.87 WE 1425 0.73 2042 5.47		29 0130 1.85 0713 4.39 TH 1336 1.07 2000 5.05		14 0304 1.37 0846 4.27 FR 1453 0.96 2115 5.51		29 0209 1.58 0748 4.15 SA 1359 0.98 2029 5.43		14 0416 1.03 1003 4.36 MO 1602 0.93 2215 5.54		29 0345 0.64 0929 4.77 TU 1536 0.36 2150 6.23		
15 0132 1.28 0736 5.51 MO 1412 0.67 2016 5.27		30 0118 1.90 0713 4.75 TU 1342 1.20 1955 4.75		15 0306 1.28 0849 4.71 TH 1507 0.73 2125 5.64		30 0224 1.56 0804 4.44 FR 1422 0.87 2045 5.42		15 0352 1.23 0935 4.26 SA 1536 0.94 2156 5.59		30 0306 1.22 0845 4.34 SU 1453 0.71 2118 5.81		15 0447 1.03 1034 4.39 TU 1633 0.91 2245 5.52		30 0430 0.36 1015 5.04 WE 1624 0.14 2233 6.40		
		31 0204 1.66 0754 4.83 WE 1418 0.98 2032 5.10						31 0359 0.90 0938 4.54 MO 1545 0.47 2205 6.13					31 0512 0.18 1058 5.24 TH 1710 0.05 ○ 2315 6.39			

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Times are in local standard time (Time Zone UTC +10:00)

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MACKAY OUTER HARBOUR – QUEENSLAND

LAT 21° 7' S LONG 149° 14' E

2023

Times and Heights of High and Low Waters

Local Time

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0552 0.11 1142 5.35 FR 1754 0.15 2357 6.17		16 0529 0.86 1121 4.80 SA 1731 1.00 2330 5.15		1 0555 0.21 1157 5.63 SU 1816 0.65		16 0517 0.78 1123 5.16 MO 1744 1.24 2329 4.60		1 0027 4.17 0630 1.09 WE 1256 5.22 1933 1.64		16 0556 1.02 1220 5.34 TH 1902 1.57		1 0059 3.76 0644 1.53 FR 1317 5.02 2005 1.82		16 0047 4.22 0645 0.99 SA 1310 5.67 2001 1.28	
2 0630 0.19 1225 5.34 SA 1837 0.43		17 0551 0.91 1148 4.79 SU 1800 1.19 2355 4.88		2 0008 5.21 0630 0.50 MO 1239 5.43 1900 1.09		17 0543 0.91 1153 5.09 TU 1817 1.46 2359 4.28		2 0114 3.71 0706 1.55 TH 1344 4.83 2034 1.95		17 0040 3.90 0638 1.27 FR 1309 5.16 2002 1.71		2 0146 3.56 0724 1.85 SA 1405 4.73 2100 1.96		17 0145 4.15 0739 1.21 SU 1405 5.51 2100 1.30	
3 0038 5.73 0708 0.42 SU 1310 5.20 1922 0.88		18 0615 1.02 1216 4.73 MO 1830 1.44		3 0049 4.61 0704 0.92 TU 1323 5.11 1949 1.57		18 0609 1.11 1226 4.96 WE 1855 1.71		3 0215 3.35 0754 1.99 FR 1447 4.48 2200 2.08		18 0142 3.70 0733 1.54 SA 1413 4.99 2117 1.73		3 0245 3.45 0818 2.13 SU 1503 4.51 2206 1.98		18 0249 4.13 0841 1.43 MO 1507 5.33 2200 1.27	
4 0119 5.14 0746 0.77 MO 1357 4.96 2011 1.40		19 0020 4.55 0638 1.19 TU 1246 4.61 1902 1.73		4 0134 3.99 0743 1.41 WE 1416 4.73 2054 1.99		19 0034 3.94 0641 1.36 TH 1308 4.77 1947 1.96		4 0350 3.22 0919 2.30 SA 1613 4.32 2330 1.96		19 0303 3.64 0850 1.74 SU 1531 4.93 2237 1.56		4 0400 3.46 0934 2.32 MO 1612 4.39 2312 1.88		19 0400 4.22 0952 1.61 TU 1615 5.17 2304 1.17	
5 0205 4.49 0829 1.19 TU 1454 4.68 2114 1.88		20 0048 4.19 0704 1.40 WE 1323 4.46 1945 2.04		5 0238 3.46 0836 1.89 TH 1531 4.41 2244 2.14		20 0124 3.60 0727 1.66 FR 1411 4.57 2113 2.10		5 0536 3.41 1113 2.30 SU 1738 4.41 ☉		20 0434 3.83 1020 1.75 MO 1653 5.04 ☉ 2348 1.25		5 0521 3.65 1104 2.34 TU 1719 4.40 ☉		20 0515 4.45 1112 1.69 WE 1724 5.04 ☉	
6 0305 3.87 0926 1.60 WE 1611 4.48 2256 2.13		21 0127 3.80 0743 1.66 TH 1421 4.29 2101 2.28		6 0433 3.22 1018 2.19 FR 1714 4.36 ☉		21 0255 3.36 0847 1.93 SA 1546 4.51 2303 1.92		6 0032 1.69 0641 3.78 MO 1227 2.04 1837 4.62		21 0552 4.23 1145 1.56 TU 1803 5.22		6 0007 1.69 0623 3.96 WE 1216 2.19 1815 4.48		21 0007 1.03 0624 4.78 TH 1231 1.64 1830 4.93	
7 0444 3.48 1056 1.85 TH 1747 4.51 ☉		22 0241 3.42 0856 1.93 FR 1601 4.25 2310 2.21		7 0028 1.89 0629 3.48 SA 1210 2.05 1835 4.59 ☉		22 0455 3.49 1041 1.90 SU 1725 4.78 ☉		7 0115 1.42 0724 4.15 TU 1317 1.76 1920 4.82		22 0048 0.91 0655 4.69 WE 1257 1.31 1902 5.35		7 0051 1.46 0710 4.31 TH 1311 1.97 1901 4.56		22 0105 0.89 0726 5.14 FR 1343 1.50 1931 4.81	
8 0049 1.91 0640 3.57 FR 1233 1.75 1907 4.78		23 0455 3.36 1057 1.92 SA 1748 4.56 ☉		8 0126 1.53 0727 3.90 SU 1315 1.71 1928 4.88		23 0025 1.47 0622 3.97 MO 1212 1.54 1838 5.20		8 0150 1.19 0758 4.47 WE 1358 1.52 1956 4.95		23 0140 0.63 0747 5.12 TH 1358 1.09 1953 5.37		8 0130 1.24 0748 4.68 FR 1357 1.74 1943 4.62		23 0158 0.78 0819 5.47 SA 1444 1.34 2027 4.70	
9 0156 1.51 0748 3.92 SA 1342 1.47 2000 5.09		24 0046 1.74 0634 3.75 SU 1229 1.54 1902 5.08		9 0206 1.24 0805 4.26 MO 1400 1.41 2008 5.11		24 0124 0.99 0721 4.51 TU 1320 1.11 1933 5.57		9 0222 1.00 0829 4.75 TH 1433 1.35 2028 5.01		24 0226 0.45 0834 5.47 FR 1450 0.95 2040 5.27		9 0205 1.04 0825 5.01 SA 1440 1.54 2022 4.62		24 0245 0.73 0906 5.70 SU 1536 1.22 2117 4.59	
10 0240 1.19 0833 4.23 SU 1430 1.21 2042 5.30		25 0149 1.21 0739 4.26 MO 1337 1.07 1959 5.58		10 0239 1.04 0837 4.51 TU 1437 1.19 2041 5.25		25 0213 0.59 0810 4.97 WE 1415 0.78 2020 5.77		10 0251 0.85 0859 4.99 FR 1508 1.22 2100 5.00		25 0307 0.38 0916 5.72 SA 1539 0.89 2124 5.09		10 0241 0.88 0900 5.30 SU 1521 1.38 2101 4.60		25 0329 0.73 0948 5.84 MO 1623 1.15 2203 4.49	
11 0315 1.01 0908 4.43 MO 1508 1.03 2116 5.42		26 0240 0.75 0830 4.71 TU 1432 0.65 2045 5.95		11 0308 0.91 0906 4.70 WE 1509 1.05 2111 5.30		26 0256 0.33 0854 5.33 TH 1505 0.57 2103 5.81		11 0320 0.74 0929 5.20 SA 1544 1.15 2130 4.92		26 0345 0.38 0957 5.88 SU 1625 0.91 2206 4.86		11 0316 0.77 0936 5.53 MO 1602 1.26 2142 4.54		26 0409 0.78 1029 5.88 TU 1706 1.16 2246 4.39	
12 0347 0.93 0939 4.55 TU 1540 0.92 2147 5.47		27 0324 0.41 0914 5.07 WE 1522 0.36 2129 6.15		12 0335 0.82 0932 4.85 TH 1539 0.97 2138 5.30		27 0335 0.18 0934 5.61 FR 1551 0.50 2144 5.70		12 0348 0.67 0959 5.36 SU 1619 1.13 2203 4.78		27 0422 0.47 1037 5.92 MO 1709 0.99 ☉ 2249 4.59		12 0353 0.71 1013 5.71 TU 1645 1.19 2223 4.48		27 0446 0.87 1107 5.82 WE 1745 1.23 ☉ 2326 4.28	
13 0415 0.90 1005 4.62 WE 1609 0.87 2215 5.47		28 0405 0.19 0955 5.36 TH 1608 0.21 2209 6.18		13 0401 0.75 0959 4.98 FR 1609 0.95 2205 5.22		28 0413 0.14 1014 5.80 SA 1634 0.53 2224 5.46		13 0418 0.67 1030 5.47 MO 1656 1.17 ☉ 2237 4.60		28 0458 0.64 1116 5.84 TU 1752 1.15 2332 4.30		13 0431 0.69 1052 5.82 WE 1730 1.17 ☉ 2307 4.41		28 0522 1.01 1143 5.68 TH 1821 1.35	
14 0441 0.88 1030 4.69 TH 1636 0.86 2241 5.42		29 0443 0.07 1035 5.57 FR 1651 0.19 ☉ 2249 6.04		14 0427 0.71 1026 5.09 SA 1640 0.98 2232 5.08		29 0447 0.19 1053 5.87 SU 1717 0.68 ☉ 2304 5.11		14 0449 0.72 1103 5.50 TU 1733 1.26 2313 4.39		29 0533 0.89 1156 5.63 WE 1834 1.37		14 0512 0.73 1134 5.85 TH 1817 1.18 2355 4.32		29 0003 4.17 0556 1.18 FR 1217 5.48 1856 1.50	
15 0505 0.86 1056 4.76 FR 1703 0.90 ☉ 2305 5.32		30 0519 0.06 1116 5.67 SA 1734 0.34 2329 5.71		15 0451 0.71 1054 5.16 SU 1711 1.08 ☉ 2300 4.87		30 0522 0.37 1132 5.80 MO 1800 0.93 2345 4.66		15 0521 0.84 1140 5.46 WE 1815 1.40 2352 4.15		30 0015 4.01 0608 1.20 TH 1236 5.33 1918 1.61		15 0556 0.83 1220 5.80 FR 1908 1.23		30 0037 4.05 0627 1.37 SA 1251 5.28 1930 1.63	
				31 0556 0.68 1214 5.57 TU 1845 1.28										31 0111 3.96 0659 1.58 SU 1326 5.06 2005 1.75	

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Moon Phase Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter