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MACKAY OUTER HARBOUR – QUEENSLAND

LAT 21° 7' S LONG 149° 14' E

Times and Heights of High and Low Waters

2021

Local Time

JANUARY				FEBRUARY				MARCH				APRIL											
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m								
1	0548	1.00	16	0048	4.53	1	0057	4.77	16	0124	4.61	1	0610	0.60	16	0015	5.10						
	1209	5.63		0645	1.06		0703	0.99		0722	1.64		1213	6.07		0623	1.33						
FR	1845	1.35	SA	1301	5.60	MO	1315	5.73	TU	1328	4.87	MO	1843	0.67	TU	1219	5.07	TH	1318	4.89	FR	1234	4.06
				1942	1.29		1949	1.10		1957	1.64					1840	1.28		1931	1.06		1843	1.71
2	0025	4.27	17	0129	4.38	2	0143	4.71	17	0201	4.41	2	0038	5.33	17	0044	4.95						
	0627	1.11		0724	1.38		0748	1.28		0758	2.02		0652	0.85		0650	1.62						
SA	1249	5.55	SU	1340	5.26	TU	1359	5.41	WE	1400	4.44	TU	1253	5.73	WE	1243	4.69	FR	1415	4.33	SA	1306	3.73
	1928	1.39		2021	1.50		2033	1.22		2032	1.91		1920	0.84		1900	1.53		2022	1.49		1912	2.02
3	0110	4.21	18	0213	4.22	3	0236	4.63	18	0250	4.20	3	0121	5.22	18	0113	4.75						
	0711	1.27		0803	1.73		0843	1.63		0847	2.41		0736	1.21		0720	1.97						
SU	1333	5.42	MO	1420	4.89	WE	1452	5.02	TH	1447	3.99	WE	1335	5.26	TH	1308	4.27	SA	1537	3.92	SU	1400	3.42
	2015	1.43		2104	1.69		2127	1.36		2125	2.18		2000	1.10		1925	1.83		2137	1.86		2001	2.33
4	0202	4.17	19	0303	4.09	4	0344	4.59	19	0405	4.07	4	0211	5.05	19	0149	4.48						
	0801	1.49		0851	2.09		0955	1.93		1018	2.68		0830	1.63		0800	2.33						
MO	1425	5.25	TU	1509	4.52	TH	1602	4.63	FR	1613	3.64	TH	1428	4.72	FR	1341	3.84	SA	1725	3.87	MO	1603	3.31
	2108	1.44		2158	1.84		2235	1.46		2255	2.31		2049	1.41		1958	2.17	☉	2320	1.96		2147	2.50
5	0305	4.18	20	0409	4.02	5	0506	4.69	20	0545	4.17	5	0316	4.86	20	0244	4.22						
	0904	1.71		1000	2.40		1130	2.04		1227	2.57		0945	2.00		0908	2.64						
TU	1526	5.07	WE	1614	4.20	FR	1726	4.39	SA	1808	3.60	FR	1542	4.24	SA	1445	3.44	MO	1858	4.21	TU	1755	3.60
	2210	1.39		2305	1.90	☉	2353	1.44	☉				2200	1.70		2100	2.49				☉	2343	2.28
6	0420	4.30	21	0531	4.12	6	0630	4.97	21	0021	2.19	6	0443	4.80	21	0422	4.10						
	1021	1.85		1137	2.48		1306	1.83		0701	4.49		1130	2.08		1132	2.64						
WE	1636	4.92	TH	1733	4.03	SA	1851	4.37	SU	1340	2.21	SA	1721	4.01	SU	1713	3.33	TU	1400	1.16	WE	1857	4.07
	☉	2316	☉							1925	3.83	☉	2333	1.78	☉	2313	2.54		1958	4.64			

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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

2021

Local Time

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0140 0826 SA 1414 2008	5.58 1.50 4.10 1.50	16 0048 0722 SU 1256 1856	4.95 1.98 3.72 1.80	1 0333 1032 TU 1630 2220	5.08 1.46 4.01 1.87	16 0214 0900 WE 1452 2045	4.96 1.69 3.83 1.79	1 0352 1041 TH 1650 2245	4.75 1.43 4.13 2.01	16 0244 0924 FR 1531 2131	5.00 1.28 4.22 1.72	1 0507 1144 SU 1821	3.84 1.69 4.29	16 0438 1106 MO 1745	4.13 1.33 4.70
2 0245 0944 SU 1534 2123	5.24 1.70 3.85 1.85	17 0132 0815 MO 1352 1947	4.76 2.11 3.55 2.03	2 0447 1141 WE 1746 2342	4.92 1.37 4.22 1.88	17 0316 1005 TH 1608 2202	4.89 1.57 3.97 1.86	2 0459 1142 FR 1800 2255	4.51 1.41 4.30 1.82	17 0346 1027 SA 1646 2255	4.78 1.24 4.39 1.82	2 0046 0632 MO 1247 1923	2.19 3.78 1.59 4.59	17 0022 0609 TU 1226 1905	1.79 4.05 1.22 5.07
3 0404 1113 MO 1710 2259	5.01 1.65 3.92 1.96	18 0234 0931 TU 1520 2108	4.61 2.12 3.51 2.18	3 0558 1240 TH 1849	4.88 1.22 4.51	18 0427 1112 FR 1724 2325	4.89 1.35 4.27 1.78	3 0005 0605 SA 1238 1901	2.05 4.37 1.34 4.56	18 0500 1135 SU 1802	4.60 1.12 4.70	3 0154 0739 TU 1340 2011	1.90 3.87 1.43 4.89	18 0147 0731 WE 1339 2011	1.42 4.20 1.00 5.47
4 0532 1229 TU 1831	5.01 1.40 4.26	19 0357 1055 WE 1655 2245	4.61 1.91 3.74 2.10	4 0053 0656 FR 1329 1940	1.76 4.87 1.08 4.80	19 0536 1214 SA 1830	4.94 1.07 4.69	4 0115 0705 SU 1327 1951	1.93 4.31 1.23 4.84	19 0022 0615 MO 1242 1911	1.72 4.52 0.96 5.10	4 0242 0828 WE 1424 2050	1.61 4.01 1.25 5.15	19 0252 0837 TH 1441 2103	1.02 4.42 0.76 5.79
5 0027 0645 WE 1327 1930	1.78 5.16 1.12 4.65	20 0515 1202 TH 1808	4.81 1.56 4.15	5 0149 0744 SA 1410 2022	1.62 4.85 0.99 5.04	20 0041 0639 SU 1311 1929	1.58 5.01 0.80 5.13	5 0212 0757 MO 1410 2034	1.74 4.29 1.13 5.08	20 0141 0724 TU 1344 2012	1.46 4.51 0.78 5.49	5 0321 0905 TH 1502 2125	1.38 4.12 1.10 5.34	20 0344 0929 FR 1533 2149	0.72 4.62 0.57 5.97
6 0131 0738 TH 1412 2015	1.52 5.29 0.93 4.95	21 0006 0620 FR 1258 1905	1.82 5.10 1.16 4.63	6 0235 0825 SU 1445 2100	1.51 4.78 0.93 5.23	21 0147 0737 MO 1403 2022	1.32 5.03 0.58 5.54	6 0258 0842 TU 1447 2112	1.56 4.28 1.05 5.27	21 0248 0829 WE 1441 2106	1.16 4.55 0.63 5.81	6 0357 0939 FR 1538 2158	1.22 4.22 0.96 5.49	21 0428 1013 SA 1618 2230	0.56 4.76 0.46 6.03
7 0222 0821 FR 1450 2053	1.33 5.32 0.84 5.15	22 0112 0715 SA 1347 1955	1.47 5.35 0.80 5.11	7 0315 0902 MO 1517 2133	1.42 4.70 0.90 5.37	22 0248 0832 TU 1454 2112	1.09 5.00 0.43 5.88	7 0338 0920 WE 1523 2146	1.41 4.26 1.01 5.39	22 0346 0926 TH 1535 2156	0.89 4.61 0.51 6.04	7 0430 1011 SA 1613 2230	1.11 4.32 0.83 5.62	22 0507 1052 SU 1659 2307	0.51 4.84 0.44 5.98
8 0303 0858 SA 1523 2127	1.25 5.26 0.82 5.29	23 0209 0804 SU 1434 2042	1.16 5.49 0.52 5.53	8 0353 0937 TU 1547 2205	1.36 4.58 0.90 5.45	23 0345 0926 WE 1542 2200	0.89 4.93 0.34 6.12	8 0415 0956 TH 1556 2219	1.32 4.23 0.98 5.46	23 0437 1017 FR 1624 2242	0.71 4.66 0.43 6.15	8 0502 1044 SU 1648 2303	1.01 4.42 0.72 5.72	23 0544 1130 MO 1736 2343	0.54 4.87 0.52 5.82
9 0339 0930 SU 1552 2158	1.22 5.15 0.82 5.40	24 0301 0851 MO 1518 2128	0.92 5.52 0.32 5.89	9 0428 1009 WE 1615 2236	1.34 4.45 0.95 5.47	24 0439 1018 TH 1630 2249	0.75 4.84 0.33 6.24	9 0449 1028 FR 1628 2250	1.28 4.20 0.97 5.50	24 0523 1105 SA 1711 2325	0.61 4.69 0.42 6.14	9 0536 1118 MO 1725 2337	0.91 4.53 0.66 5.77	24 0616 1205 TU 1812	0.64 4.83 0.72
10 0412 1001 MO 1618 2227	1.22 5.01 0.84 5.47	25 0353 0939 TU 1601 2213	0.75 5.45 0.21 6.15	10 0500 1039 TH 1644 2304	1.36 4.31 1.02 5.44	25 0530 1111 FR 1717 2337	0.69 4.73 0.41 6.22	10 0522 1100 SA 1700 2322	1.26 4.20 0.95 5.52	25 0607 1150 SU 1754	0.62 4.68 0.51	10 0611 1155 TU 1802	0.85 4.60 0.70	25 0016 0648 WE 1241 1845	5.55 0.81 4.73 1.02
11 0444 1030 TU 1644 2255	1.25 4.83 0.90 5.48	26 0444 1027 WE 1645 2259	0.67 5.28 0.22 6.27	11 0532 1109 FR 1711 2333	1.42 4.17 1.11 5.38	26 0620 1202 SA 1805	0.73 4.60 0.58	11 0555 1132 SU 1735 2355	1.25 4.21 0.96 5.52	26 0007 0647 MO 1233 1835	6.00 0.71 4.61 0.71	11 0013 0645 WE 1233 1841	5.71 0.84 4.62 0.85	26 0048 0717 TH 1315 1918	5.18 1.03 4.56 1.38
12 0514 1056 WE 1706 2321	1.33 4.62 1.01 5.42	27 0534 1116 TH 1729 2346	0.69 5.02 0.36 6.23	12 0604 1139 SA 1741	1.50 4.06 1.21	27 0024 0709 SU 1254 1852	6.05 0.85 4.44 0.83	12 0630 1209 MO 1812	1.24 4.22 1.01	27 0047 0727 TU 1316 1915	5.74 0.88 4.50 1.01	12 0049 0721 TH 1315 1922	5.54 0.90 4.58 1.10	27 0119 0747 FR 1354 1955	4.74 1.30 4.36 1.79
13 0542 1122 TH 1730 2348	1.46 4.38 1.17 5.30	28 0626 1209 FR 1814	0.82 4.70 0.62	13 0005 0638 SU 1214 1815	5.29 1.58 3.97 1.33	28 0112 0758 MO 1346 1941	5.77 1.03 4.28 1.15	13 0030 0706 TU 1249 1850	5.47 1.25 4.20 1.12	28 0127 0805 WE 1400 1956	5.38 1.09 4.35 1.38	13 0129 0800 FR 1402 2009	5.24 1.01 4.52 1.41	28 0151 0821 SA 1442 2044	4.26 1.60 4.14 2.19
14 0611 1148 FR 1754	1.62 4.15 1.36	29 0036 0720 SA 1305 1902	6.02 1.03 4.38 0.98	14 0041 0717 MO 1256 1854	5.18 1.66 3.88 1.48	29 0200 0848 TU 1441 2032	5.43 1.21 4.16 1.49	14 0109 0746 WE 1334 1934	5.37 1.27 4.18 1.30	29 0207 0846 TH 1447 2041	4.96 1.31 4.20 1.77	14 0215 0846 SA 1501 2112	4.86 1.15 4.46 1.73	29 0236 0910 SU 1553 2212	3.77 1.90 3.98 2.46
15 0016 0643 SA 1217 1821	5.14 1.80 3.93 1.57	30 0129 0818 SU 1406 1958	5.71 1.26 4.11 1.36	15 0122 0804 TU 1347 1943	5.06 1.70 3.82 1.65	30 0253 0942 WE 1542 2131	5.08 1.35 4.09 1.80	15 0152 0831 TH 1427 2026	5.21 1.29 4.17 1.51	30 0251 0933 FR 1546 2142	4.53 1.52 4.09 2.13	15 0315 0947 SU 1619 2241	4.45 1.29 4.49 1.91	30 0359 1036 MO 1733	3.39 2.10 4.04
		31 0227 0923 MO 1515 2102	5.37 1.42 3.97 1.68					31 0348 1034 SA 1702 2311	4.12 1.67 4.10 2.30			31 0025 0610 TU 1210 1852	2.34 3.34 2.02 4.34		

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● 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

2021

Local Time

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0137 1.98 0727 3.59 WE 1313 1.75 1943 4.69		16 0149 1.18 0742 4.24 TH 1340 1.10 2004 5.50		1 0143 1.63 0737 3.85 FR 1326 1.64 1943 4.92		16 0221 0.64 0820 4.83 SA 1423 0.87 2030 5.61		1 0208 0.88 0808 4.75 MO 1415 1.06 2016 5.46		16 0305 0.59 0910 5.31 TU 1524 1.06 2115 5.08		1 0209 0.60 0819 5.32 WE 1437 1.05 2027 5.28		16 0305 0.85 0923 5.45 TH 1545 1.35 2129 4.56	
2 0220 1.61 0809 3.88 TH 1400 1.45 2022 5.03		17 0244 0.77 0836 4.61 FR 1438 0.78 2052 5.76		2 0217 1.27 0810 4.23 SA 1407 1.25 2019 5.28		17 0302 0.48 0900 5.07 SU 1507 0.74 2109 5.60		2 0246 0.57 0847 5.15 TU 1500 0.80 2057 5.60		17 0336 0.61 0943 5.41 WE 1600 1.09 2147 4.91		2 0252 0.37 0904 5.71 TH 1529 0.86 2114 5.24		17 0337 0.86 0957 5.54 FR 1621 1.32 2203 4.44	
3 0255 1.32 0843 4.14 FR 1438 1.16 2057 5.31		18 0329 0.54 0919 4.86 SA 1525 0.59 2133 5.85		3 0251 0.96 0843 4.57 SU 1446 0.92 2054 5.56		18 0339 0.46 0935 5.20 MO 1545 0.73 2143 5.49		3 0325 0.33 0927 5.50 WE 1545 0.62 2137 5.61		18 0404 0.66 1015 5.47 TH 1633 1.14 2218 4.71		3 0336 0.24 0949 6.01 FR 1619 0.74 2201 5.12		18 0407 0.91 1029 5.55 SA 1656 1.35 2235 4.31	
4 0328 1.09 0914 4.37 SA 1515 0.91 2130 5.54		19 0407 0.46 0957 4.99 SU 1605 0.53 2209 5.82		4 0325 0.70 0917 4.88 MO 1527 0.67 2130 5.75		19 0410 0.50 1007 5.27 TU 1620 0.79 2215 5.32		4 0403 0.18 1008 5.77 TH 1631 0.55 2220 5.48		19 0430 0.75 1044 5.47 FR 1705 1.24 2248 4.48		4 0419 0.21 1035 6.20 SA 1710 0.71 2252 4.92		19 0435 1.00 1058 5.51 SU 1728 1.41 2304 4.18	
5 0400 0.90 0945 4.57 SU 1552 0.70 2203 5.73		20 0442 0.47 1031 5.06 MO 1641 0.56 2243 5.70		5 0400 0.47 0953 5.16 TU 1607 0.50 2207 5.83		20 0438 0.56 1037 5.31 WE 1652 0.90 2244 5.10		5 0443 0.13 1049 5.94 FR 1717 0.59 2304 5.22		20 0455 0.88 1113 5.39 SA 1736 1.38 2315 4.23		5 0504 0.29 1122 6.23 SU 1802 0.77 2345 4.68		20 0502 1.09 1126 5.43 MO 1758 1.50 2332 4.08	
6 0434 0.72 1020 4.77 MO 1630 0.54 2237 5.86		21 0513 0.53 1103 5.09 TU 1715 0.67 2314 5.51		6 0436 0.30 1031 5.39 WE 1649 0.44 2245 5.78		21 0503 0.65 1106 5.30 TH 1722 1.05 2312 4.83		6 0522 0.23 1133 5.96 SA 1807 0.76 2351 4.84		21 0519 1.06 1140 5.25 SU 1806 1.55 2341 4.00		6 0550 0.49 1212 6.10 MO 1858 0.91		21 0530 1.20 1156 5.33 TU 1829 1.60	
7 0508 0.58 1056 4.94 TU 1708 0.47 2313 5.88		22 0540 0.62 1135 5.07 WE 1745 0.86 2343 5.22		7 0512 0.23 1111 5.53 TH 1731 0.51 2324 5.55		22 0527 0.80 1135 5.22 FR 1752 1.26 2337 4.50		7 0602 0.48 1221 5.81 SU 1900 1.03		22 0543 1.27 1207 5.07 MO 1837 1.74		7 0041 4.42 0640 0.78 TU 1304 5.85 1955 1.10		22 0003 3.99 0601 1.32 WE 1228 5.21 1903 1.69	
8 0543 0.49 1133 5.06 WE 1747 0.53 2349 5.75		23 0606 0.78 1205 4.98 TH 1815 1.12		8 0548 0.30 1151 5.55 FR 1815 0.72		23 0548 1.02 1202 5.06 SA 1821 1.52		8 0044 4.40 0647 0.85 MO 1314 5.53 2001 1.31		23 0010 3.78 0610 1.50 TU 1239 4.86 1915 1.93		8 0140 4.19 0734 1.13 WE 1401 5.54 2057 1.25		23 0040 3.91 0636 1.47 TH 1304 5.09 1945 1.76	
9 0617 0.51 1213 5.08 TH 1828 0.73		24 0010 4.85 0630 1.00 FR 1235 4.82 1845 1.45		9 0005 5.17 0624 0.51 SA 1234 5.44 1902 1.06		24 0001 4.15 0609 1.28 SU 1230 4.83 1851 1.80		9 0145 4.00 0742 1.27 TU 1416 5.22 2115 1.49		24 0045 3.58 0643 1.74 WE 1320 4.64 2005 2.07		9 0245 4.04 0836 1.47 TH 1505 5.25 2202 1.32		24 0123 3.84 0718 1.65 FR 1348 4.95 2032 1.79	
10 0026 5.45 0652 0.64 FR 1254 5.01 1910 1.05		25 0035 4.43 0652 1.28 SA 1306 4.59 1917 1.81		10 0049 4.66 0703 0.84 SU 1324 5.20 1959 1.43		25 0026 3.79 0631 1.58 MO 1301 4.56 1930 2.08		10 0304 3.75 0853 1.63 WE 1533 5.00 2241 1.47		25 0137 3.41 0729 1.99 TH 1416 4.47 2115 2.12		10 0359 4.04 0948 1.71 FR 1615 5.04 2309 1.28		25 0218 3.80 0811 1.85 SA 1442 4.83 2130 1.75	
11 0106 5.02 0730 0.87 SA 1340 4.86 2000 1.43		26 0100 3.99 0715 1.61 SU 1343 4.31 1959 2.17		11 0145 4.13 0751 1.25 MO 1427 4.93 2115 1.72		26 0058 3.46 0700 1.91 TU 1345 4.28 2030 2.32		11 0436 3.80 1024 1.76 TH 1700 4.98 2358 1.24		26 0258 3.34 0839 2.19 FR 1533 4.42 2235 1.97		11 0515 4.20 1109 1.80 SA 1727 4.93		26 0328 3.84 0919 2.02 SU 1547 4.75 2235 1.61	
12 0153 4.51 0814 1.16 SU 1439 4.69 2107 1.79		27 0133 3.54 0747 1.98 MO 1440 4.03 2112 2.47		12 0303 3.71 0902 1.63 TU 1551 4.76 2257 1.72		27 0154 3.15 0748 2.24 WE 1503 4.07 2226 2.35		12 0600 4.13 1153 1.62 FR 1815 5.12		27 0433 3.51 1015 2.19 SA 1651 4.56 2341 1.66		12 0012 1.17 0623 4.49 SU 1225 1.74 1830 4.88		27 0447 4.06 1044 2.05 MO 1700 4.74 2341 1.37	
13 0300 4.01 0917 1.46 MO 1601 4.59 2247 1.92		28 0243 3.13 0851 2.32 TU 1622 3.91 2351 2.40		13 0449 3.64 1043 1.76 WE 1729 4.86		28 0409 3.06 0934 2.44 TH 1648 4.14 2359 2.06		13 0059 0.95 0704 4.54 SA 1303 1.37 1913 5.26		28 0547 3.89 1141 1.97 SU 1755 4.81		13 0105 1.03 0719 4.80 MO 1329 1.62 1924 4.83		28 0600 4.44 1207 1.90 TU 1807 4.79	
14 0438 3.73 1050 1.60 TU 1739 4.75		29 0539 3.09 1115 2.38 WE 1804 4.14		14 0029 1.38 0627 3.97 TH 1218 1.53 1847 5.17		29 0556 3.38 1133 2.23 FR 1801 4.46		14 0148 0.73 0753 4.90 SU 1359 1.16 2000 5.29		29 0035 1.28 0645 4.37 MO 1247 1.64 1849 5.05		14 0151 0.93 0806 5.08 TU 1421 1.50 2010 4.76		29 0041 1.09 0701 4.90 WE 1318 1.63 1908 4.83	
15 0033 1.64 0624 3.86 WE 1224 1.44 1902 5.12		30 0102 2.03 0700 3.44 TH 1236 2.05 1901 4.52		15 0132 0.96 0731 4.45 FR 1330 1.16 1945 5.47		30 0048 1.66 0648 3.84 SA 1239 1.82 1852 4.85		15 0230 0.61 0834 5.15 MO 1445 1.07 2040 5.22		30 0123 0.91 0733 4.86 TU 1345 1.32 1939 5.22		15 0230 0.87 0846 5.29 WE 1505 1.40 2051 4.67		30 0135 0.83 0757 5.37 TH 1422 1.35 2005 4.86	
				31 0130 1.25 0730 4.31 SU 1329 1.41 1935 5.21									31 0227 0.62 0848 5.78 FR 1520 1.09 2100 4.86		

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