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# MACKAY OUTER HARBOUR – QUEENSLAND

LAT 21° 7' S LONG 149° 14' E

Times and Heights of High and Low Waters

# 2020

Local Time

JANUARY				FEBRUARY				MARCH				APRIL			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> 0246 3.82		<b>16</b> 0300 4.49		<b>1</b> 0337 3.96		<b>16</b> 0458 4.76		<b>1</b> 0222 4.25		<b>16</b> 0427 4.81		<b>1</b> 0419 4.39		<b>16</b> 0023 1.98	
0824 2.04		0903 1.50		0925 2.46		1129 2.00		0829 2.38		1120 2.04		1115 2.33		0647 4.99	
WE 1453 4.56		TH 1519 5.23		SA 1536 4.05		SU 1723 4.31		SU 1417 3.96		MO 1711 3.95		WE 1709 3.59		TH 1332 1.38	
2150 1.90		2159 1.22		2228 2.10		☾ 2346 1.55		2050 2.17		☾ 2318 1.91		☾ 2316 2.22		1931 4.41	
<b>2</b> 0350 3.78		<b>17</b> 0412 4.52		<b>2</b> 0501 4.03		<b>17</b> 0626 4.96		<b>2</b> 0336 4.13		<b>17</b> 0603 4.89		<b>2</b> 0556 4.70		<b>17</b> 0130 1.69	
0928 2.30		1017 1.74		1106 2.57		1304 1.81		0956 2.60		1257 1.78		1243 1.91		0741 5.20	
TH 1554 4.34		FR 1629 4.94		SU 1703 3.89		MO 1852 4.31		MO 1546 3.66		TU 1850 4.12		TH 1839 3.99		FR 1416 1.13	
2256 1.89		☾ 2306 1.23		☾ 2346 2.00				2224 2.29						2015 4.73	
<b>3</b> 0507 3.88		<b>18</b> 0530 4.69		<b>3</b> 0619 4.32		<b>18</b> 0104 1.43		<b>3</b> 0518 4.26		<b>18</b> 0050 1.76		<b>3</b> 0040 1.83		<b>18</b> 0218 1.44	
1055 2.41		1144 1.82		1238 2.35		0738 5.29		1155 2.46		0719 5.18		0704 5.17		0823 5.33	
FR 1706 4.23		SA 1743 4.75		MO 1822 3.95		TU 1415 1.46		TU 1742 3.69		WE 1401 1.39		FR 1344 1.42		SA 1453 0.99	
☾ 2357 1.76						2004 4.50		☾ 1956 4.47		1956 4.47		1939 4.47		2052 4.96	
<b>4</b> 0617 4.16		<b>19</b> 0016 1.16		<b>4</b> 0048 1.75		<b>19</b> 0210 1.22		<b>4</b> 0002 2.10		<b>19</b> 0156 1.47		<b>4</b> 0144 1.37		<b>19</b> 0258 1.29	
1217 2.29		0645 5.00		0718 4.74		0833 5.59		0638 4.65		0813 5.45		0758 5.63		0858 5.37	
SA 1812 4.25		SU 1309 1.67		TU 1342 2.00		WE 1508 1.16		WE 1314 2.05		TH 1448 1.10		SA 1434 0.99		SU 1525 0.93	
		1857 4.68		1925 4.14		2057 4.69		1902 3.99		2043 4.76		2029 4.92		2124 5.10	
<b>5</b> 0048 1.56		<b>20</b> 0121 1.03		<b>5</b> 0140 1.45		<b>20</b> 0301 1.04		<b>5</b> 0111 1.72		<b>20</b> 0246 1.23		<b>5</b> 0239 0.96		<b>20</b> 0331 1.20	
0711 4.52		0750 5.35		0808 5.16		0917 5.77		0737 5.13		0855 5.61		0845 5.98		0929 5.35	
SU 1318 2.05		MO 1419 1.41		WE 1434 1.64		TH 1550 1.01		TH 1412 1.60		FR 1527 0.96		SU 1520 0.63		MO 1554 0.90	
1906 4.33		2003 4.69		2017 4.37		2138 4.82		2001 4.37		2120 4.94		2114 5.32		2153 5.21	
<b>6</b> 0132 1.34		<b>21</b> 0219 0.90		<b>6</b> 0229 1.16		<b>21</b> 0343 0.94		<b>6</b> 0207 1.31		<b>21</b> 0325 1.09		<b>6</b> 0328 0.63		<b>21</b> 0402 1.16	
0756 4.89		0843 5.65		0851 5.56		0954 5.84		0827 5.60		0931 5.66		0929 6.21		0958 5.29	
MO 1409 1.78		TU 1515 1.18		TH 1521 1.33		FR 1628 0.97		FR 1501 1.19		SA 1600 0.93		MO 1603 0.36		TU 1620 0.89	
1954 4.42		2059 4.73		2105 4.59		2214 4.89		2049 4.73		2152 5.04		2157 5.65		2221 5.30	
<b>7</b> 0213 1.12		<b>22</b> 0309 0.80		<b>7</b> 0315 0.89		<b>22</b> 0418 0.90		<b>7</b> 0258 0.93		<b>22</b> 0359 1.03		<b>7</b> 0415 0.42		<b>22</b> 0431 1.15	
0835 5.23		0929 5.85		0933 5.90		1028 5.83		0912 5.99		1002 5.65		1012 6.29		1024 5.17	
TU 1455 1.53		WE 1603 1.04		FR 1606 1.05		SA 1700 0.99		SA 1546 0.85		SU 1630 0.94		TU 1644 0.19		WE 1644 0.90	
2037 4.50		2146 4.74		2150 4.79		2247 4.91		2134 5.06		2222 5.10		2240 5.90		2247 5.36	
<b>8</b> 0253 0.95		<b>23</b> 0352 0.76		<b>8</b> 0401 0.65		<b>23</b> 0450 0.90		<b>8</b> 0346 0.61		<b>23</b> 0428 1.01		<b>8</b> 0501 0.34		<b>23</b> 0500 1.20	
0914 5.52		1009 5.93		1016 6.18		1058 5.78		0954 6.30		1030 5.59		1055 6.19		1049 5.01	
WE 1538 1.33		TH 1644 0.99		SA 1651 0.82		SU 1729 1.04		SU 1629 0.57		MO 1656 0.96		WE 1723 0.16		TH 1707 0.96	
2119 4.56		2227 4.74		2234 4.98		2315 4.92		2218 5.35		2249 5.15		☾ 2322 6.03		☾ 2313 5.36	
<b>9</b> 0333 0.80		<b>24</b> 0430 0.77		<b>9</b> 0446 0.46		<b>24</b> 0518 0.95		<b>9</b> 0432 0.37		<b>24</b> 0456 1.03		<b>9</b> 0546 0.43		<b>24</b> 0528 1.30	
0952 5.76		1045 5.93		1058 6.37		1126 5.68		1037 6.47		1056 5.49		1139 5.91		1115 4.81	
TH 1621 1.17		FR 1721 1.02		SU 1734 0.65		MO 1755 1.11		MO 1711 0.37		TU 1720 0.99		TH 1802 0.28		FR 1730 1.07	
2202 4.62		2304 4.71		☾ 2319 5.13		☾ 2343 4.90		2301 5.57		☾ 2314 5.18				2340 5.31	
<b>10</b> 0413 0.69		<b>25</b> 0506 0.83		<b>10</b> 0531 0.38		<b>25</b> 0544 1.04		<b>10</b> 0517 0.27		<b>25</b> 0522 1.10		<b>10</b> 0006 6.00		<b>25</b> 0558 1.45	
1032 5.95		1120 5.86		1141 6.43		1151 5.53		1120 6.47		1120 5.34		0631 0.69		1141 4.56	
FR 1705 1.04		SA 1755 1.10		MO 1817 0.57		TU 1818 1.20		TU 1752 0.29		WE 1741 1.06		FR 1223 5.45		SA 1754 1.22	
2245 4.67		☾ 2339 4.65						☾ 2344 5.69		2339 5.16		1840 0.57			
<b>11</b> 0456 0.62		<b>26</b> 0537 0.93		<b>11</b> 0004 5.21		<b>26</b> 0008 4.86		<b>11</b> 0602 0.35		<b>26</b> 0548 1.23		<b>11</b> 0051 5.80		<b>26</b> 0008 5.20	
1113 6.08		1151 5.72		0616 0.44		0610 1.19		1202 6.27		1143 5.12		0719 1.09		0628 1.65	
SA 1749 0.95		SU 1826 1.21		TU 1224 6.31		WE 1215 5.32		WE 1831 0.37		TH 1802 1.17		SA 1309 4.88		SU 1209 4.30	
☾ 2330 4.69				1859 0.61		1840 1.32						1921 0.99		1819 1.41	
<b>12</b> 0539 0.62		<b>27</b> 0010 4.57		<b>12</b> 0050 5.18		<b>27</b> 0035 4.77		<b>12</b> 0028 5.67		<b>27</b> 0005 5.09		<b>12</b> 0140 5.48		<b>27</b> 0039 5.05	
1156 6.11		0607 1.08		0702 0.67		0636 1.42		0647 0.61		0614 1.43		0814 1.52		0704 1.85	
SU 1835 0.93		MO 1221 5.53		WE 1309 6.02		TH 1239 5.04		TH 1245 5.86		FR 1206 4.85		SU 1404 4.32		MO 1242 4.04	
		1854 1.35		1942 0.76		1903 1.49		1911 0.61		1824 1.34		2007 1.46		1849 1.63	
<b>13</b> 0017 4.68		<b>28</b> 0040 4.48		<b>13</b> 0138 5.07		<b>28</b> 0104 4.63		<b>13</b> 0114 5.51		<b>28</b> 0031 4.96		<b>13</b> 0239 5.11		<b>28</b> 0118 4.88	
0624 0.72		0635 1.27		0749 1.03		0706 1.71		0733 1.02		0643 1.68		0925 1.87		0752 2.05	
MO 1241 6.03		TU 1250 5.31		TH 1356 5.58		FR 1304 4.71		FR 1330 5.31		SA 1230 4.54		MO 1517 3.89		TU 1330 3.78	
1921 0.96		1923 1.50		2027 1.00		1929 1.70		1952 0.96		1846 1.55		2111 1.90		1933 1.88	
<b>14</b> 0106 4.62		<b>29</b> 0111 4.36		<b>14</b> 0232 4.92		<b>29</b> 0137 4.44		<b>14</b> 0205 5.26		<b>29</b> 0100 4.79		<b>14</b> 0354 4.83		<b>29</b> 0217 4.70	
0711 0.91		0704 1.52		0843 1.46		0741 2.04		0827 1.50		0716 1.96		1103 1.95		0906 2.16	
TU 1328 5.83		WE 1318 5.03		FR 1450 5.07		SA 1334 4.33		SA 1423 4.70		SU 1257 4.20		TU 1656 3.76		WE 1451 3.59	
2009 1.05		1953 1.66		2119 1.27		2001 1.94		2040 1.37		1912 1.79		2246 2.12		2050 2.11	
<b>15</b> 0200 4.55		<b>30</b> 0147 4.22		<b>15</b> 0338 4.78				<b>15</b> 0306 4.98		<b>30</b> 0137 4.59		<b>15</b> 0529 4.80		<b>30</b> 0344 4.65	
0803 1.19		0737 1.82		0954 1.84				0938 1.91		0801 2.24		1231 1.71		1044 2.02	
WE 1420 5.55		TH 1351 4.71		SA 1558 4.59				SU 1534 4.18		MO 1338 3.86		WE 1830 4.02		TH 1642 3.70	
2101 1.14		2029 1.85		2225 1.48				2145 1.74		1952 2.05		☾ 2316 2.22		2239 2.09	
		<b>31</b> 0233 4.06						<b>31</b> 0238 4.40							
		0821 2.16						0917 2.44							
		FR 1434 4.36						TU 1458 3.56							
		2117 2.02						2113 2.29							

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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

# 2020

Local Time

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> 0517 4.86		<b>16</b> 0047 1.93		<b>1</b> 0053 1.41		<b>16</b> 0143 1.82		<b>1</b> 0145 1.31		<b>16</b> 0200 1.82		<b>1</b> 0342 0.88		<b>16</b> 0309 1.26	
1207 1.64		0656 4.85		0656 5.35		0735 4.52		0732 4.90		0742 4.11		0926 4.57		0851 4.26	
FR 1810 4.10		SA 1332 1.27		MO 1330 0.71		TU 1358 1.15		WE 1358 0.62		TH 1357 1.21		SA 1531 0.64		SU 1457 0.89	
☾		1938 4.57		1942 5.16		2016 4.90		2020 5.51		2024 5.00		2150 5.84		2117 5.56	
<b>2</b> 0009 1.78		<b>17</b> 0140 1.72		<b>2</b> 0157 1.14		<b>17</b> 0228 1.63		<b>2</b> 0248 1.10		<b>17</b> 0246 1.57		<b>2</b> 0427 0.76		<b>17</b> 0350 0.99	
0628 5.22		0742 4.95		0751 5.42		0815 4.53		0830 4.84		0827 4.19		1010 4.61		0933 4.48	
SA 1310 1.20		SU 1410 1.11		TU 1422 0.48		WE 1434 1.02		TH 1449 0.53		FR 1437 1.05		SU 1615 0.60		MO 1541 0.65	
1913 4.61		2017 4.83		2032 5.55		2052 5.14		2110 5.78		2102 5.27		2230 5.88		2157 5.84	
<b>3</b> 0118 1.37		<b>18</b> 0222 1.54		<b>3</b> 0254 0.93		<b>18</b> 0308 1.48		<b>3</b> 0343 0.92		<b>18</b> 0328 1.36		<b>3</b> 0507 0.74		<b>18</b> 0431 0.76	
0727 5.57		0819 4.98		0841 5.39		0852 4.51		0924 4.78		0908 4.26		1050 4.61		1014 4.68	
SU 1403 0.80		MO 1443 1.00		WE 1508 0.34		TH 1507 0.93		FR 1537 0.49		SA 1517 0.90		MO 1654 0.63		TU 1625 0.45	
2006 5.08		2051 5.05		2119 5.85		2126 5.33		2156 5.95		2140 5.49		2306 5.83		2237 6.05	
<b>4</b> 0217 1.02		<b>19</b> 0300 1.42		<b>4</b> 0347 0.79		<b>19</b> 0347 1.36		<b>4</b> 0432 0.82		<b>19</b> 0409 1.19		<b>4</b> 0543 0.80		<b>19</b> 0513 0.56	
0817 5.80		0853 4.97		0930 5.28		0928 4.46		1013 4.71		0949 4.34		1127 4.59		1057 4.85	
MO 1451 0.49		TU 1514 0.92		TH 1552 0.28		FR 1540 0.88		SA 1621 0.50		SU 1557 0.78		TU 1729 0.71		WE 1709 0.32	
2052 5.49		2122 5.22		2204 6.06		2200 5.46		2239 6.01		2217 5.68		○ 2341 5.70		● 2318 6.15	
<b>5</b> 0309 0.75		<b>20</b> 0334 1.33		<b>5</b> 0436 0.73		<b>20</b> 0424 1.29		<b>5</b> 0518 0.80		<b>20</b> 0450 1.04		<b>5</b> 0616 0.89		<b>20</b> 0553 0.43	
0903 5.89		0924 4.90		1018 5.11		1004 4.41		1059 4.62		1030 4.42		1201 4.53		1140 4.98	
TU 1534 0.28		WE 1543 0.88		FR 1634 0.32		SA 1614 0.86		SU 1703 0.57		MO 1637 0.67		WE 1801 0.85		TH 1753 0.32	
2136 5.82		2152 5.35		2249 6.15		2234 5.56		○ 2320 5.96		2256 5.83					
<b>6</b> 0358 0.58		<b>21</b> 0408 1.28		<b>6</b> 0524 0.75		<b>21</b> 0502 1.24		<b>6</b> 0600 0.86		<b>21</b> 0531 0.92		<b>6</b> 0012 5.50		<b>21</b> 0000 6.10	
0948 5.85		0954 4.80		1106 4.89		1040 4.35		1143 4.51		1112 4.50		0647 1.03		0634 0.41	
WE 1616 0.16		TH 1610 0.87		SA 1715 0.45		SU 1649 0.86		MO 1743 0.71		TU 1720 0.60		TH 1234 4.44		FR 1225 5.01	
2220 6.07		2222 5.44		○ 2332 6.09		● 2309 5.61				● 2336 5.92		1831 1.05		1837 0.48	
<b>7</b> 0445 0.52		<b>22</b> 0440 1.28		<b>7</b> 0610 0.87		<b>22</b> 0541 1.23		<b>7</b> 0000 5.80		<b>22</b> 0613 0.84		<b>7</b> 0043 5.25		<b>22</b> 0042 5.86	
1033 5.68		1023 4.66		1153 4.63		1119 4.30		0641 0.99		1155 4.55		0716 1.19		0715 0.51	
TH 1656 0.17		FR 1637 0.91		SU 1756 0.69		MO 1726 0.89		TU 1225 4.37		WE 1803 0.62		FR 1306 4.32		SA 1311 4.95	
○ 2303 6.18		2251 5.47				2346 5.62		1821 0.92				1902 1.31		1923 0.78	
<b>8</b> 0532 0.60		<b>23</b> 0513 1.32		<b>8</b> 0017 5.89		<b>23</b> 0622 1.24		<b>8</b> 0039 5.56		<b>23</b> 0018 5.90		<b>8</b> 0111 4.94		<b>23</b> 0126 5.46	
1118 5.38		1054 4.50		0657 1.07		1201 4.25		0720 1.16		0656 0.81		0744 1.37		0757 0.71	
FR 1735 0.32		SA 1706 0.98		MO 1242 4.35		TU 1805 0.97		WE 1306 4.23		TH 1241 4.56		SA 1341 4.18		SU 1401 4.83	
2347 6.13		● 2322 5.46		1838 1.00				1859 1.18		1847 0.73		1933 1.62		2013 1.17	
<b>9</b> 0619 0.81		<b>24</b> 0547 1.41		<b>9</b> 0101 5.58		<b>24</b> 0027 5.58		<b>9</b> 0117 5.27		<b>24</b> 0101 5.77		<b>9</b> 0142 4.60		<b>24</b> 0215 4.97	
1205 4.98		1125 4.34		0745 1.31		0706 1.27		0758 1.35		0739 0.85		0817 1.57		0845 0.97	
SA 1814 0.61		SU 1735 1.09		TU 1332 4.09		WE 1247 4.18		TH 1347 4.08		FR 1330 4.53		SU 1423 4.03		MO 1502 4.69	
		2354 5.39		1921 1.36		1849 1.10		1936 1.47		1935 0.95		2013 1.97		2117 1.57	
<b>10</b> 0032 5.91		<b>25</b> 0623 1.52		<b>10</b> 0147 5.24		<b>25</b> 0112 5.48		<b>10</b> 0155 4.96		<b>25</b> 0147 5.53		<b>10</b> 0220 4.21		<b>25</b> 0319 4.46	
0708 1.11		1200 4.16		0836 1.53		0754 1.30		0839 1.52		0826 0.93		0859 1.78		0945 1.21	
SU 1254 4.52		MO 1807 1.24		WE 1425 3.89		TH 1340 4.13		FR 1432 3.95		SA 1424 4.48		MO 1521 3.90		TU 1618 4.64	
1856 1.02				2010 1.70		1939 1.28		2017 1.78		2027 1.23		2111 2.29		2245 1.79	
<b>11</b> 0120 5.57		<b>26</b> 0031 5.28		<b>11</b> 0238 4.91		<b>26</b> 0203 5.34		<b>11</b> 0237 4.64		<b>26</b> 0240 5.21		<b>11</b> 0314 3.83		<b>26</b> 0441 4.09	
0802 1.46		0704 1.64		0933 1.67		0848 1.30		0926 1.66		0918 1.02		1003 1.93		1103 1.35	
MO 1349 4.09		TU 1243 4.00		TH 1527 3.80		FR 1441 4.12		SA 1528 3.87		SU 1527 4.47		TU 1641 3.90		WE 1744 4.77	
1942 1.47		1845 1.43		2109 1.99		2039 1.46		2110 2.08		2132 1.52		2248 2.45		☾	
<b>12</b> 0213 5.18		<b>27</b> 0115 5.15		<b>12</b> 0338 4.65		<b>27</b> 0303 5.19		<b>12</b> 0330 4.34		<b>27</b> 0343 4.86		<b>12</b> 0440 3.59		<b>27</b> 0026 1.68	
0907 1.72		0756 1.74		1037 1.70		0949 1.25		1025 1.73		1019 1.08		1124 1.92		0615 4.03	
TU 1456 3.80		WE 1337 3.85		FR 1639 3.84		SA 1552 4.21		SU 1637 3.89		MO 1641 4.56		WE 1804 4.12		TH 1226 1.28	
2041 1.88		1935 1.63		2223 2.16		2151 1.60		2225 2.28		○ 2253 1.70		☾		1905 5.08	
<b>13</b> 0319 4.86		<b>28</b> 0212 5.02		<b>13</b> 0448 4.50		<b>28</b> 0411 5.07		<b>13</b> 0436 4.12		<b>28</b> 0456 4.58		<b>13</b> 0028 2.28		<b>28</b> 0147 1.31	
1025 1.81		0902 1.75		1141 1.61		1054 1.13		1128 1.70		1128 1.08		0609 3.60		0736 4.23	
WE 1619 3.73		TH 1451 3.79		SA 1751 4.03		SU 1708 4.44		MO 1751 4.06		TU 1759 4.78		TH 1231 1.73		FR 1339 1.06	
2202 2.14		2046 1.81		○ 2344 2.15		○ 2312 1.63		○ 2353 2.27				1906 4.48		2007 5.42	
<b>14</b> 0439 4.70		<b>29</b> 0324 4.96		<b>14</b> 0555 4.47		<b>29</b> 0522 4.99		<b>14</b> 0548 4.02		<b>29</b> 0023 1.65		<b>14</b> 0135 1.93		<b>29</b> 0245 0.94	
1143 1.70		1017 1.62		1235 1.47		1200 0.96		1225 1.57		0614 4.44		0717 3.79		0834 4.48	
TH 1746 3.92		FR 1618 3.93		SU 1850 4.31		MO 1819 4.78		TU 1852 4.35		WE 1238 0.99		FR 1325 1.45		SA 1437 0.84	
2334 2.13		2213 1.83								1911 5.12		1955 4.88		2056 5.65	
<b>15</b> 0557 4.74		<b>30</b> 0442 5.03		<b>15</b> 0050 2.01		<b>30</b> 0033 1.51		<b>15</b> 0104 2.08		<b>30</b> 0144 1.40		<b>15</b> 0225 1.57		<b>30</b> 0331 0.72	
1245 1.48		1129 1.35		0650 4.49		0630 4.94		0650 4.04		0729 4.43		0808 4.03		0920 4.65	
FR 1850 4.24		SA 1739 4.27		MO 1320 1.30		TU 1301 0.77		WE 1313 1.40		TH 1344 0.85		SA 1412 1.16		SU 1524 0.70	
☾		○ 2339 1.67		1937 4.61		1923 5.16		1942 4.69		2014 5.45		2037 5.24		2137 5.75	
		<b>31</b> 0554 5.20								<b>31</b> 0249 1.10				<b>31</b> 0411 0.65	
		1234 1.01								FR 1441 0.72				0959 4.74	
		SU 1845 4.72								2105 5.70				MO 1604 0.65	
														2212 5.74	

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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

