

# Queensland Tide Tables Standard Port Tide Times 2015

*Includes:*

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

*Produced by:*

Maritime Safety Queensland  
Department of Transport and Main Roads

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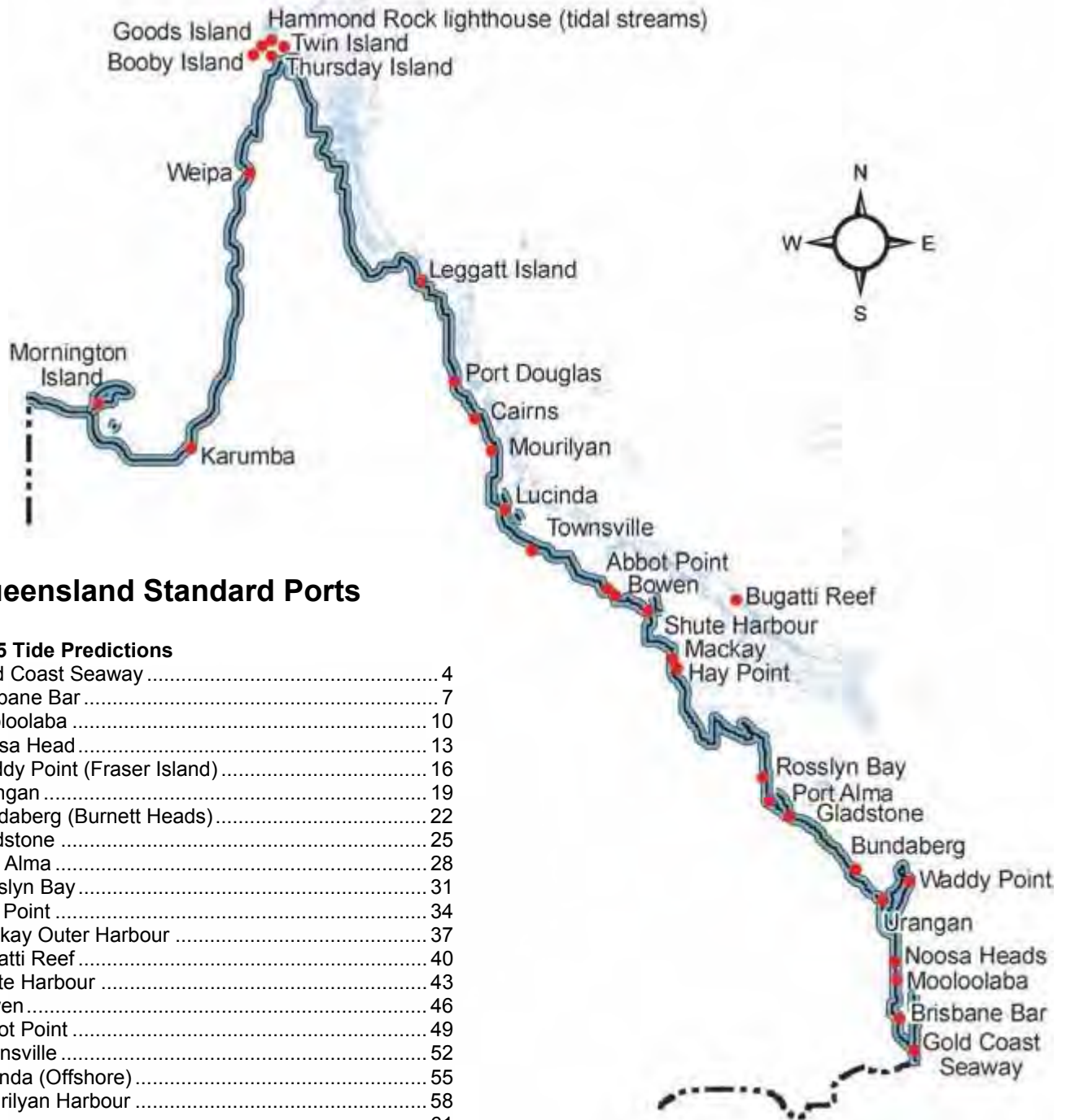
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Users of these tables should be aware that the heights and stream velocities shown in this publication are predictions only and that the actual water level and height and stream velocity may vary due to meteorological conditions (including barometric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

# AUSTRALIA, EAST COAST – GOLD COAST SEAWAY

LAT 27° 57' S LONG 153° 25' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

## FEBRUARY

## MARCH

## APRIL

Time m		Time m		Time m		Time m		Time m							
<b>1</b>	0530 1.47 1149 0.36 TH 1734 1.10 2329 0.13	<b>16</b>	0454 1.33 1107 0.47 FR 1643 1.06 2244 0.22	<b>1</b>	0002 0.22 0651 1.55 SU 1317 0.29 1904 1.11	<b>16</b>	0609 1.60 1232 0.24 MO 1821 1.19	<b>1</b>	0541 1.44 1212 0.38 SU 1805 1.09 2347 0.32	<b>16</b>	0443 1.48 1113 0.33 MO 1708 1.15 2254 0.28	<b>1</b>	0008 0.36 0628 1.44 WE 1246 0.28 1859 1.30	<b>16</b>	0606 1.61 1221 0.08 TH 1840 1.52
<b>2</b>	0621 1.55 1245 0.30 FR 1828 1.10	<b>17</b>	0545 1.46 1205 0.36 SA 1743 1.09 2335 0.15	<b>2</b>	0045 0.18 0730 1.59 MO 1354 0.24 1943 1.15	<b>17</b>	0008 0.11 0658 1.72 TU 1319 0.12 1913 1.29	<b>2</b>	0626 1.48 1251 0.32 MO 1848 1.16	<b>17</b>	0541 1.59 1205 0.20 TU 1806 1.27 2353 0.17	<b>2</b>	0047 0.31 0704 1.46 TH 1316 0.23 1932 1.37	<b>17</b>	0034 0.15 0656 1.63 FR 1304 0.02 1928 1.64
<b>3</b>	0016 0.11 0706 1.61 SA 1332 0.25 1915 1.10	<b>18</b>	0633 1.59 1254 0.25 SU 1837 1.15	<b>3</b>	0124 0.15 0805 1.61 TU 1427 0.21 2018 1.18	<b>18</b>	0059 0.01 0745 1.80 WE 1403 0.02 2002 1.38	<b>3</b>	0031 0.26 0704 1.52 TU 1325 0.26 1924 1.22	<b>18</b>	0633 1.69 1252 0.09 WE 1857 1.40	<b>3</b>	0124 0.26 0737 1.46 FR 1344 0.20 2004 1.43	<b>18</b>	0128 0.10 0744 1.60 SA 1347 -0.00 2014 1.72
<b>4</b>	0058 0.10 0747 1.64 SU 1413 0.21 1957 1.12	<b>19</b>	0024 0.06 0718 1.71 MO 1341 0.14 1928 1.21	<b>4</b>	0159 0.13 0838 1.61 WE 1458 0.19 ○ 2051 1.21	<b>19</b>	0149 -0.05 0831 1.84 TH 1447 -0.04 ● 2050 1.45	<b>4</b>	0109 0.22 0738 1.54 WE 1355 0.22 1957 1.27	<b>19</b>	0047 0.07 0722 1.75 TH 1335 0.01 1946 1.52	<b>4</b>	0159 0.24 0810 1.45 SA 1413 0.18 ○ 2035 1.48	<b>19</b>	0219 0.08 0830 1.54 SU 1429 0.02 ● 2100 1.77
<b>5</b>	0137 0.09 0824 1.65 MO 1451 0.18 ○ 2036 1.12	<b>20</b>	0111 -0.01 0804 1.80 TU 1427 0.05 ● 2016 1.27	<b>5</b>	0234 0.14 0909 1.59 TH 1528 0.18 2124 1.22	<b>20</b>	0239 -0.07 0916 1.81 FR 1531 -0.05 2138 1.50	<b>5</b>	0143 0.19 0810 1.54 TH 1424 0.19 2029 1.32	<b>20</b>	0138 0.00 0808 1.75 FR 1418 -0.04 ● 2032 1.60	<b>5</b>	0235 0.23 0841 1.42 SU 1441 0.18 2107 1.52	<b>20</b>	0310 0.11 0916 1.44 MO 1510 0.07 2146 1.77
<b>6</b>	0213 0.10 0900 1.64 TU 1526 0.18 2112 1.12	<b>21</b>	0159 -0.05 0850 1.84 WE 1512 -0.01 2105 1.31	<b>6</b>	0307 0.16 0940 1.55 FR 1557 0.18 2157 1.23	<b>21</b>	0329 -0.02 1002 1.73 SA 1615 -0.03 2226 1.51	<b>6</b>	0217 0.17 0841 1.53 FR 1451 0.18 ○ 2100 1.35	<b>21</b>	0229 -0.01 0853 1.70 SA 1500 -0.04 2119 1.66	<b>6</b>	0311 0.25 0914 1.38 MO 1511 0.19 2142 1.54	<b>21</b>	0402 0.17 1002 1.33 TU 1552 0.15 2232 1.72
<b>7</b>	0249 0.13 0934 1.61 WE 1600 0.18 2148 1.12	<b>22</b>	0248 -0.06 0936 1.84 TH 1557 -0.03 2154 1.33	<b>7</b>	0343 0.20 1012 1.50 SA 1628 0.20 2232 1.23	<b>22</b>	0421 0.07 1047 1.59 SU 1658 0.04 2317 1.48	<b>7</b>	0251 0.18 0912 1.50 SA 1520 0.18 2132 1.37	<b>22</b>	0319 0.03 0939 1.60 SU 1543 0.01 2206 1.66	<b>7</b>	0350 0.28 0949 1.32 TU 1541 0.22 2218 1.53	<b>22</b>	0456 0.25 1050 1.21 WE 1632 0.25 2319 1.64
<b>8</b>	0324 0.17 1008 1.56 TH 1633 0.20 2225 1.10	<b>23</b>	0338 -0.02 1021 1.78 FR 1644 -0.02 2245 1.33	<b>8</b>	0420 0.27 1044 1.43 SU 1659 0.22 2310 1.22	<b>23</b>	0517 0.19 1134 1.43 MO 1743 0.13	<b>8</b>	0326 0.21 0943 1.45 SU 1549 0.19 2206 1.38	<b>23</b>	0412 0.11 1024 1.46 MO 1625 0.09 2255 1.63	<b>8</b>	0430 0.32 1025 1.25 WE 1614 0.27 2257 1.51	<b>23</b>	0551 0.34 1141 1.11 TH 1716 0.36
<b>9</b>	0402 0.23 1042 1.50 FR 1707 0.22 2303 1.09	<b>24</b>	0431 0.07 1108 1.66 SA 1731 0.03 2340 1.32	<b>9</b>	0500 0.34 1118 1.34 MO 1732 0.26 2354 1.20	<b>24</b>	0012 1.44 0617 0.33 TU 1224 1.25 1831 0.23	<b>9</b>	0403 0.26 1015 1.38 MO 1618 0.22 2242 1.38	<b>24</b>	0507 0.22 1111 1.31 TU 1708 0.20 2346 1.56	<b>9</b>	0517 0.37 1106 1.18 TH 1651 0.32 2342 1.48	<b>24</b>	0009 1.54 0650 0.41 FR 1240 1.03 1805 0.46
<b>10</b>	0442 0.30 1117 1.43 SA 1742 0.24 2348 1.08	<b>25</b>	0527 0.19 1157 1.51 SU 1819 0.10	<b>10</b>	0546 0.43 1155 1.25 TU 1808 0.30	<b>25</b>	0114 1.39 0728 0.44 WE 1325 1.10 1925 0.33	<b>10</b>	0442 0.33 1049 1.30 TU 1649 0.26 2320 1.36	<b>25</b>	0606 0.34 1203 1.16 WE 1753 0.31	<b>10</b>	0610 0.42 1155 1.10 FR 1737 0.38	<b>25</b>	0102 1.45 0753 0.46 SA 1349 1.00 1908 0.54
<b>11</b>	0526 0.38 1155 1.34 SU 1821 0.27	<b>26</b>	0040 1.30 0630 0.31 MO 1249 1.35 1910 0.17	<b>11</b>	0045 1.19 0640 0.50 WE 1239 1.15 1851 0.33	<b>26</b>	0225 1.36 0854 0.50 TH 1440 1.01 ● 2032 0.39	<b>11</b>	0527 0.40 1126 1.22 WE 1723 0.31	<b>26</b>	0042 1.48 0713 0.44 TH 1304 1.05 1845 0.41	<b>11</b>	0038 1.44 0716 0.45 SA 1302 1.05 1838 0.44	<b>26</b>	0201 1.37 0855 0.47 SU 1504 1.02 ● 2025 0.58
<b>12</b>	0039 1.07 0617 0.46 MO 1236 1.25 1903 0.29	<b>27</b>	0147 1.29 0742 0.42 TU 1349 1.19 ● 2006 0.23	<b>12</b>	0151 1.20 0751 0.56 TH 1339 1.07 ● 1947 0.36	<b>27</b>	0339 1.36 1018 0.50 FR 1602 0.98 2147 0.41	<b>12</b>	0006 1.34 0619 0.47 TH 1210 1.13 1805 0.36	<b>27</b>	0145 1.40 0831 0.49 FR 1420 0.98 ● 1951 0.49	<b>12</b>	0147 1.42 0831 0.43 SU 1425 1.05 ● 1958 0.46	<b>27</b>	0305 1.33 0953 0.44 MO 1611 1.08 2140 0.57
<b>13</b>	0141 1.08 0719 0.53 TU 1326 1.16 ● 1952 0.31	<b>28</b>	0259 1.32 0907 0.48 WE 1459 1.08 2108 0.27	<b>13</b>	0305 1.25 0918 0.55 FR 1457 1.02 2057 0.36	<b>28</b>	0446 1.39 1123 0.45 SA 1712 1.02 2254 0.37	<b>13</b>	0104 1.32 0727 0.52 FR 1311 1.05 1903 0.41	<b>28</b>	0255 1.35 0945 0.49 SA 1541 0.99 2112 0.51	<b>13</b>	0302 1.44 0943 0.37 MO 1544 1.12 2123 0.43	<b>28</b>	0405 1.32 1042 0.40 TU 1706 1.17 2244 0.52
<b>14</b>	0249 1.13 0836 0.56 WE 1427 1.09 2048 0.31	<b>29</b>	0410 1.37 1035 0.48 TH 1616 1.02 2213 0.28	<b>14</b>	0414 1.34 1038 0.48 SA 1616 1.04 2210 0.30	<b>14</b>	0219 1.32 0851 0.51 SA 1435 1.02 ● 2020 0.42	<b>14</b>	0219 1.32 0851 0.51 SA 1435 1.02 ● 2020 0.42	<b>29</b>	0403 1.35 1047 0.45 SU 1649 1.05 2224 0.48	<b>14</b>	0411 1.50 1042 0.27 TU 1651 1.24 2235 0.34	<b>29</b>	0458 1.33 1123 0.34 WE 1750 1.27 2337 0.46
<b>15</b>	0355 1.22 0957 0.54 TH 1536 1.05 2147 0.28	<b>30</b>	0513 1.44 1142 0.42 FR 1724 1.03 2312 0.25	<b>15</b>	0515 1.47 1141 0.36 SU 1724 1.10 2313 0.21	<b>15</b>	0515 1.47 1141 0.36 SU 1724 1.10 2313 0.21	<b>15</b>	0336 1.38 1010 0.44 SU 1559 1.06 2143 0.37	<b>30</b>	0501 1.37 1134 0.39 MO 1741 1.13 2322 0.43	<b>15</b>	0511 1.57 1134 0.17 WE 1748 1.38 2338 0.24	<b>30</b>	0543 1.35 1159 0.29 TH 1828 1.36
	<b>31</b>	0606 1.50 1235 0.35 SA 1819 1.06					<b>31</b>	0548 1.40 1212 0.33 TU 1823 1.22							

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – GOLD COAST SEAWAY

LAT 27° 57' S LONG 153° 25' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0022 0.40	<b>16</b>	0024 0.25	<b>1</b>	0119 0.35	<b>16</b>	0203 0.23	<b>1</b>	0246 0.04	<b>16</b>	0312 0.15
	0624 1.36		0631 1.47		0705 1.27		0751 1.25		0839 1.30		0912 1.22
FR	1232 0.24	SA	1235 0.07	MO	1257 0.19	TU	1337 0.12	WE	1308 0.12	TH	1401 0.13
	1903 1.45		1910 1.71		1945 1.65		2025 1.78		2003 1.74	●	2046 1.69
<b>2</b>	0102 0.35	<b>17</b>	0119 0.20	<b>2</b>	0200 0.30	<b>17</b>	0250 0.22	<b>2</b>	0223 0.21	<b>17</b>	0310 0.20
	0701 1.37		0721 1.43		0746 1.26		0837 1.22		0808 1.23		0900 1.18
SA	1303 0.21	SU	1318 0.06	TU	1333 0.17	WE	1418 0.14	TH	1351 0.09	FR	1439 0.16
	1937 1.52		1956 1.78		2023 1.70	●	2107 1.77	○	2044 1.78		2122 1.66
<b>3</b>	0140 0.31	<b>18</b>	0211 0.18	<b>3</b>	0241 0.26	<b>18</b>	0333 0.23	<b>3</b>	0307 0.16	<b>18</b>	0347 0.21
	0737 1.36		0808 1.37		0827 1.25		0921 1.19		0854 1.25		0938 1.17
SU	1333 0.19	MO	1400 0.08	WE	1410 0.16	TH	1458 0.19	FR	1436 0.08	SA	1516 0.19
	2010 1.59	●	2042 1.81	○	2102 1.74		2147 1.72		2128 1.80		2157 1.60
<b>4</b>	0217 0.28	<b>19</b>	0301 0.19	<b>4</b>	0324 0.24	<b>19</b>	0416 0.25	<b>4</b>	0353 0.12	<b>19</b>	0421 0.22
	0813 1.34		0855 1.31		0909 1.24		1004 1.15		0943 1.25		1016 1.16
MO	1405 0.18	TU	1441 0.12	TH	1451 0.17	FR	1537 0.25	SA	1523 0.10	SU	1553 0.25
○	2044 1.63		2126 1.80		2143 1.75		2225 1.65		2212 1.78		2230 1.53
<b>5</b>	0256 0.27	<b>20</b>	0351 0.22	<b>5</b>	0409 0.23	<b>20</b>	0457 0.29	<b>5</b>	0440 0.11	<b>20</b>	0455 0.25
	0849 1.31		0942 1.24		0956 1.21		1047 1.12		1034 1.25		1054 1.15
TU	1437 0.19	WE	1521 0.19	FR	1534 0.20	SA	1617 0.32	SU	1613 0.15	MO	1632 0.31
	2121 1.66		2210 1.75		2227 1.73		2303 1.57		2259 1.72		2305 1.45
<b>6</b>	0337 0.28	<b>21</b>	0439 0.27	<b>6</b>	0458 0.23	<b>21</b>	0537 0.32	<b>6</b>	0529 0.12	<b>21</b>	0529 0.27
	0928 1.26		1028 1.17		1046 1.19		1131 1.10		1129 1.25		1137 1.13
WE	1512 0.22	TH	1602 0.27	SA	1622 0.25	SU	1700 0.39	MO	1709 0.23	TU	1716 0.39
	2159 1.66		2253 1.67		2315 1.68		2342 1.48		2348 1.62		2342 1.37
<b>7</b>	0421 0.30	<b>22</b>	0528 0.32	<b>7</b>	0551 0.24	<b>22</b>	0618 0.35	<b>7</b>	0620 0.15	<b>22</b>	0607 0.29
	1009 1.21		1116 1.10		1142 1.16		1219 1.08		1229 1.25		1225 1.12
TH	1550 0.26	FR	1644 0.36	SU	1717 0.32	MO	1749 0.47	TU	1809 0.32	WE	1805 0.47
	2240 1.64		2336 1.57								
<b>8</b>	0509 0.32	<b>23</b>	0617 0.38	<b>8</b>	0606 1.62	<b>23</b>	0624 1.40	<b>8</b>	0620 0.15	<b>23</b>	0607 0.29
	1055 1.16		1207 1.06		0645 0.25		0702 0.36		0713 0.17		0649 0.32
FR	1632 0.31	SA	1731 0.45	MO	1247 1.16	TU	1316 1.08	WE	1335 1.27	TH	1322 1.13
	2327 1.60				1819 0.39		1845 0.54		1918 0.40		1905 0.54
<b>9</b>	0603 0.35	<b>24</b>	0617 0.38	<b>9</b>	0006 1.62	<b>23</b>	0024 1.40	<b>9</b>	0042 1.51	<b>23</b>	0023 1.27
	1149 1.11		1207 1.06		0645 0.25		0702 0.36		0713 0.17		0649 0.32
SA	1723 0.38	SU	1731 0.45	MO	1247 1.16	TU	1316 1.08	WE	1335 1.27	TH	1322 1.13
					1819 0.39		1845 0.54		1918 0.40		1905 0.54
<b>10</b>	0603 0.35	<b>24</b>	0021 1.48	<b>9</b>	0104 1.54	<b>24</b>	0111 1.32	<b>9</b>	0141 1.38	<b>24</b>	0111 1.18
	1149 1.11		0707 0.41		0743 0.25		0749 0.37		0808 0.20		0735 0.34
SA	1723 0.38	SU	1306 1.04	TU	1357 1.20	WE	1420 1.11	TH	1444 1.32	FR	1427 1.16
			1826 0.53		1931 0.44	●	1954 0.59	○	2036 0.45	●	2018 0.58
<b>10</b>	0021 1.55	<b>25</b>	0109 1.39	<b>10</b>	0206 1.47	<b>25</b>	0205 1.24	<b>10</b>	0246 1.28	<b>25</b>	0211 1.10
	0704 0.36		0758 0.42		0841 0.23		0839 0.36		0906 0.21		0829 0.34
SU	1257 1.09	MO	1412 1.05	WE	1507 1.27	TH	1525 1.17	FR	1552 1.40	SA	1533 1.23
	1827 0.44		1933 0.58	●	2048 0.46		2109 0.60		2158 0.46		2140 0.57
<b>11</b>	0124 1.51	<b>26</b>	0204 1.33	<b>11</b>	0311 1.41	<b>26</b>	0304 1.19	<b>11</b>	0354 1.20	<b>26</b>	0317 1.06
	0809 0.34		0851 0.41		0937 0.20		0931 0.35		1004 0.20		0927 0.33
MO	1414 1.12	TU	1520 1.10	TH	1612 1.38	FR	1623 1.26	SA	1656 1.49	SU	1633 1.32
●	1944 0.47	●	2048 0.60		2205 0.44		2221 0.57		2314 0.41		2250 0.51
<b>12</b>	0232 1.49	<b>27</b>	0302 1.29	<b>12</b>	0415 1.36	<b>27</b>	0404 1.16	<b>12</b>	0501 1.16	<b>27</b>	0423 1.06
	0912 0.29		0942 0.39		1031 0.17		1019 0.31		1059 0.19		1023 0.28
TU	1527 1.20	WE	1620 1.18	FR	1711 1.50	SA	1714 1.37	SU	1753 1.58	MO	1726 1.43
	2105 0.45		2159 0.58		2316 0.38		2321 0.51				2346 0.41
<b>13</b>	0340 1.49	<b>28</b>	0400 1.27	<b>13</b>	0515 1.33	<b>28</b>	0500 1.16	<b>13</b>	0601 0.35	<b>28</b>	0522 1.09
	1010 0.23		1028 0.34		1121 0.14		1104 0.27		0600 1.15		1114 0.22
WE	1632 1.32	TH	1710 1.28	SA	1805 1.62	SU	1759 1.47	MO	1151 0.16	TU	1813 1.55
	2218 0.39		2300 0.53						1843 1.65		
<b>14</b>	0442 1.49	<b>29</b>	0454 1.26	<b>14</b>	0019 0.32	<b>29</b>	0012 0.43	<b>14</b>	0107 0.28	<b>29</b>	0035 0.31
	1102 0.16		1110 0.30		0612 1.30		0551 1.17		0652 1.16		0614 1.14
TH	1729 1.46	FR	1753 1.39	SU	1209 0.12	MO	1146 0.22	TU	1237 0.14	WE	1202 0.14
	2324 0.32		2352 0.47		1855 1.71		1840 1.57		1928 1.69		1858 1.65
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					1942 1.76		1921 1.66		2008 1.71		1942 1.74
<b>15</b>	0539 1.49	<b>30</b>	0541 1.26	<b>15</b>	0113 0.27	<b>30</b>	0057 0.35	<b>15</b>	0151 0.24	<b>30</b>	0119 0.20
	1150 0.10		1147 0.26		0703 1.27		0638 1.19		0738 1.17		0704 1.19
FR	1821 1.60	SA	1831 1.48	MO	1254 0.11	TU	1227 0.17	WE	1320 0.13	TH	1249 0.06
					19						









# AUSTRALIA, EAST COAST – BRISBANE BAR

LAT 27° 22' S LONG 153° 10' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0526 0.15	<b>16</b>	0501 0.36	<b>1</b>	0534 0.17	<b>16</b>	0458 0.34	<b>1</b>	0052 1.67	<b>16</b>	0022 1.82
	1119 2.26		1106 2.07		1146 2.39		1117 2.19		0639 0.58		0617 0.45
TU	1733 0.24	WE	1717 0.50	TH	1812 0.38	FR	1739 0.56	TU	1315 2.22	WE	1250 2.37
	2334 2.37		2310 2.04		2358 2.02		2318 1.86		2004 0.65		1935 0.53
<b>2</b>	0606 0.19	<b>17</b>	0530 0.38	<b>2</b>	0614 0.27	<b>17</b>	0529 0.40	<b>2</b>	0144 1.62	<b>17</b>	0116 1.80
	1207 2.25		1141 2.06		1235 2.32		1153 2.16		0728 0.71		0710 0.54
WE	1822 0.36	TH	1753 0.57	FR	1904 0.51	SA	1817 0.63	MO	1401 2.10	TH	1339 2.30
			2341 1.93				2355 1.76		2053 0.68		2028 0.52
<b>3</b>	0019 2.18	<b>18</b>	0600 0.43	<b>3</b>	0046 1.82	<b>18</b>	0603 0.46	<b>3</b>	0246 1.60	<b>18</b>	0219 1.81
	0647 0.27		1217 2.02		0656 0.40		1234 2.11		0827 0.82		0813 0.63
TH	1258 2.21	FR	1831 0.66	SA	1327 2.22	SU	1902 0.69	WE	1453 2.00	FR	1436 2.21
	1915 0.51				2003 0.64			☉	2147 0.68		2126 0.50
<b>4</b>	0106 1.97	<b>19</b>	0016 1.81	<b>4</b>	0142 1.64	<b>19</b>	0038 1.66	<b>4</b>	0358 1.64	<b>19</b>	0331 1.86
	0731 0.37		0634 0.49		0745 0.53		0644 0.54		0939 0.88		0926 0.69
FR	1353 2.14	SA	1259 1.98	SU	1424 2.11	MO	1322 2.07	FR	1551 1.92	SA	1539 2.13
	2016 0.66		1916 0.75		2114 0.72		1958 0.73		2242 0.64	☉	2226 0.45
<b>5</b>	0202 1.77	<b>20</b>	0057 1.69	<b>5</b>	0254 1.53	<b>20</b>	0136 1.58	<b>5</b>	0456 1.62	<b>20</b>	0356 1.74
	0822 0.47		0714 0.56		0848 0.65		0739 0.61		1038 0.80		0948 0.66
SA	1456 2.08	SU	1349 1.94	MO	1532 2.04	TU	1422 2.05	TH	1655 1.96	FR	1611 2.16
☉	2131 0.75		2013 0.82	☉	2231 0.73		2109 0.73		2346 0.60		2302 0.46
<b>6</b>	0313 1.61	<b>21</b>	0153 1.59	<b>6</b>	0419 1.52	<b>21</b>	0253 1.56	<b>6</b>	0555 1.75	<b>21</b>	0508 1.89
	0925 0.55		0809 0.62		1006 0.70		0851 0.66		1146 0.75		1106 0.62
SU	1608 2.06	MO	1454 1.93	TU	1643 2.02	WE	1534 2.06	FR	1752 1.98	SA	1717 2.17
	2255 0.76	☉	2131 0.82		2339 0.67	☉	2227 0.65				
<b>7</b>	0437 1.56	<b>22</b>	0312 1.54	<b>7</b>	0532 1.61	<b>22</b>	0418 1.64	<b>7</b>	0032 0.52	<b>22</b>	0002 0.35
	1038 0.58		0922 0.64		1122 0.67		1013 0.63		0643 1.89		0612 2.07
MO	1720 2.09	TU	1611 1.99	WE	1746 2.05	TH	1647 2.13	SA	1242 0.67	SU	1219 0.55
			2256 0.74				2336 0.52		1841 2.00		1819 2.17
<b>8</b>	0009 0.68	<b>23</b>	0439 1.59	<b>8</b>	0034 0.57	<b>23</b>	0532 1.79	<b>8</b>	0113 0.44	<b>23</b>	0058 0.26
	0553 1.62		1042 0.59		0629 1.73		1129 0.54		0724 2.02		0709 2.25
TU	1150 0.55	WE	1724 2.11	TH	1224 0.61	FR	1751 2.22	SU	1330 0.60	MO	1325 0.47
	1823 2.15				1840 2.09				1923 2.02		1916 2.16
<b>9</b>	0108 0.58	<b>24</b>	0009 0.60	<b>9</b>	0118 0.49	<b>24</b>	0037 0.37	<b>9</b>	0149 0.37	<b>24</b>	0149 0.18
	0652 1.71		0551 1.72		0715 1.86		0633 1.98		0802 2.13		0802 2.41
WE	1251 0.49	TH	1153 0.48	FR	1316 0.54	SA	1238 0.44	MO	1414 0.55	TU	1427 0.41
	1914 2.22		1826 2.25		1924 2.13		1850 2.30		2001 2.02		2010 2.12
<b>10</b>	0154 0.49	<b>25</b>	0109 0.44	<b>10</b>	0156 0.42	<b>25</b>	0130 0.25	<b>10</b>	0223 0.32	<b>25</b>	0236 0.14
	0740 1.81		0652 1.88		0754 1.96		0728 2.16		0837 2.21		0851 2.52
TH	1341 0.43	FR	1258 0.36	SA	1400 0.48	SU	1341 0.35	TU	1455 0.51	WE	1521 0.37
	1958 2.26		1921 2.38		2003 2.15		1943 2.33		2037 2.00		2100 2.07
<b>11</b>	0233 0.44	<b>26</b>	0201 0.30	<b>11</b>	0230 0.37	<b>26</b>	0219 0.16	<b>11</b>	0255 0.29	<b>26</b>	0319 0.14
	0820 1.89		0747 2.04		0830 2.05		0819 2.32		0912 2.28		0938 2.58
FR	1424 0.40	SA	1357 0.26	SU	1439 0.45	MO	1439 0.28	WE	1534 0.49	TH	1613 0.37
	2036 2.27		2011 2.46		2038 2.14		2033 2.32		2112 1.98	☉	2149 2.00
<b>12</b>	0307 0.40	<b>27</b>	0249 0.19	<b>12</b>	0301 0.33	<b>27</b>	0304 0.10	<b>12</b>	0328 0.28	<b>27</b>	0400 0.17
	0856 1.95		0836 2.18		0903 2.12		0907 2.43		0947 2.32		1023 2.59
SA	1502 0.38	SU	1453 0.19	MO	1517 0.43	TU	1532 0.25	TH	1613 0.49	FR	1702 0.40
	2110 2.27		2058 2.48		2110 2.12	☉	2120 2.26	☉	2147 1.94		2235 1.92
<b>13</b>	0338 0.38	<b>28</b>	0333 0.12	<b>13</b>	0330 0.31	<b>28</b>	0345 0.09	<b>13</b>	0359 0.29	<b>28</b>	0439 0.23
	0929 2.00		0925 2.30		0936 2.17		0954 2.51		1023 2.33		1107 2.55
SU	1537 0.38	MO	1544 0.16	TU	1552 0.43	WE	1623 0.27	FR	1651 0.51	SA	1749 0.45
☉	2142 2.24	☉	2144 2.45	☉	2141 2.08		2206 2.16		2223 1.89		2321 1.84
<b>14</b>	0406 0.36	<b>29</b>	0416 0.09	<b>14</b>	0359 0.30	<b>29</b>	0425 0.12	<b>14</b>	0432 0.32	<b>29</b>	0518 0.33
	1001 2.04		1013 2.38		1009 2.20		1040 2.53		1058 2.33		1150 2.46
MO	1611 0.40	TU	1634 0.19	WE	1628 0.46	TH	1713 0.32	SA	1729 0.55	SU	1834 0.52
	2211 2.20		2228 2.35		2212 2.02		2252 2.03		2301 1.83		
<b>15</b>	0433 0.35	<b>30</b>	0456 0.11	<b>15</b>	0428 0.31	<b>30</b>	0504 0.19	<b>15</b>	0506 0.37	<b>30</b>	0006 1.75
	1032 2.06		1059 2.41		1042 2.21		1126 2.50		1136 2.30		0558 0.45
TU	1644 0.44	WE	1722 0.26	TH	1703 0.50	FR	1802 0.41	SU	1810 0.59	MO	1232 2.35
	2240 2.13		2313 2.20		2244 1.95		2339 1.89		2342 1.77		1918 0.59
				<b>31</b>	0543 0.30						
					1212 2.41						
					SA 1852 0.52						
										<b>31</b>	0104 1.75
											0653 0.67
											TH 1318 2.15
											1956 0.64

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☾ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – MOOLOOLABA

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0522 1.68	<b>16</b>	0449 1.53
	1142 0.59		1103 0.70
TH	1717 1.35	FR	1625 1.30
	2334 0.26		2243 0.36
<b>2</b>	0612 1.78	<b>17</b>	0538 1.68
	1236 0.53		1201 0.59
FR	1810 1.35	SA	1725 1.34
			2336 0.27
<b>3</b>	0019 0.22	<b>18</b>	0624 1.82
	0655 1.85		1250 0.48
SA	1321 0.48	SU	1819 1.41
	1857 1.36		
<b>4</b>	0101 0.20	<b>19</b>	0026 0.17
	0735 1.89		0709 1.96
SU	1402 0.44	MO	1335 0.36
	1939 1.37		1910 1.48
<b>5</b>	0139 0.19	<b>20</b>	0114 0.08
	0813 1.90		0754 2.06
MO	1439 0.42	TU	1420 0.27
	2018 1.37	●	1959 1.54
<b>6</b>	0214 0.21	<b>21</b>	0201 0.03
	0848 1.89		0839 2.12
TU	1513 0.41	WE	1504 0.21
	2055 1.37		2048 1.59
<b>7</b>	0248 0.24	<b>22</b>	0248 0.03
	0922 1.86		0924 2.12
WE	1547 0.42	TH	1550 0.18
	2131 1.36		2137 1.61
<b>8</b>	0323 0.30	<b>23</b>	0336 0.09
	0956 1.82		1009 2.06
TH	1620 0.43	FR	1635 0.19
	2206 1.35		2228 1.61
<b>9</b>	0358 0.37	<b>24</b>	0426 0.20
	1030 1.75		1055 1.94
FR	1655 0.45	SA	1722 0.24
	2245 1.32		2320 1.58
<b>10</b>	0436 0.45	<b>25</b>	0519 0.35
	1105 1.67		1142 1.78
SA	1732 0.47	SU	1812 0.30
	2327 1.30		
<b>11</b>	0517 0.55	<b>26</b>	0019 1.54
	1142 1.58		0619 0.51
SU	1811 0.50	MO	1233 1.60
			1905 0.37
<b>12</b>	0017 1.27	<b>27</b>	0129 1.51
	0606 0.65		0733 0.65
MO	1223 1.49	TU	1332 1.44
	1857 0.51	●	2005 0.42
<b>13</b>	0120 1.27	<b>28</b>	0249 1.52
	0708 0.74		0903 0.72
TU	1312 1.40	WE	1443 1.32
●	1949 0.52		2111 0.44
<b>14</b>	0239 1.31	<b>29</b>	0404 1.58
	0826 0.79		1030 0.72
WE	1412 1.33	TH	1559 1.27
	2048 0.49		2218 0.43
<b>15</b>	0351 1.40	<b>30</b>	0506 1.65
	0950 0.77		1137 0.66
TH	1520 1.29	FR	1707 1.27
	2147 0.44		2317 0.39
		<b>31</b>	0557 1.73
			1228 0.59
			SA 1801 1.31

## FEBRUARY

Time	m	Time	m
<b>1</b>	0006 0.34	<b>16</b>	0600 1.84
	0640 1.79		1230 0.46
SU	1308 0.53	MO	1804 1.45
	1846 1.36		
<b>2</b>	0048 0.30	<b>17</b>	0011 0.22
	0718 1.83		0648 1.98
MO	1344 0.48	TU	1315 0.32
	1925 1.40		1857 1.56
<b>3</b>	0125 0.27	<b>18</b>	0102 0.12
	0752 1.86		0734 2.08
TU	1415 0.44	WE	1358 0.22
	2001 1.44		1946 1.67
<b>4</b>	0159 0.26	<b>19</b>	0150 0.05
	0825 1.86		0819 2.12
WE	1446 0.41	TH	1441 0.15
○	2036 1.47	●	2034 1.75
<b>5</b>	0232 0.27	<b>20</b>	0238 0.05
	0858 1.85		0903 2.10
TH	1517 0.40	FR	1524 0.12
	2109 1.48		2121 1.79
<b>6</b>	0305 0.31	<b>21</b>	0325 0.11
	0928 1.81		0947 2.01
FR	1546 0.40	SA	1606 0.15
	2143 1.49		2210 1.79
<b>7</b>	0338 0.36	<b>22</b>	0414 0.22
	1000 1.76		1031 1.87
SA	1617 0.41	SU	1649 0.21
	2217 1.48		2300 1.75
<b>8</b>	0413 0.44	<b>23</b>	0506 0.38
	1032 1.68		1116 1.69
SU	1649 0.43	MO	1734 0.30
	2254 1.45		2354 1.68
<b>9</b>	0451 0.53	<b>24</b>	0605 0.55
	1105 1.59		1204 1.50
MO	1722 0.46	TU	1824 0.40
	2336 1.43		
<b>10</b>	0534 0.63	<b>25</b>	0057 1.61
	1141 1.49		0721 0.68
TU	1801 0.49	WE	1302 1.34
			1921 0.50
<b>11</b>	0026 1.40	<b>26</b>	0215 1.56
	0627 0.72		0852 0.75
WE	1224 1.39	TH	1421 1.23
	1847 0.52	●	2033 0.56
<b>12</b>	0133 1.39	<b>27</b>	0335 1.57
	0739 0.79		1018 0.74
TH	1321 1.30	FR	1547 1.20
●	1947 0.54		2151 0.56
<b>13</b>	0257 1.44	<b>28</b>	0441 1.61
	0912 0.79		1122 0.68
FR	1439 1.25	SA	1656 1.25
	2057 0.52		2258 0.52
<b>14</b>	0410 1.55	<b>29</b>	0509 1.69
	1037 0.72		1140 0.60
SA	1559 1.27	SU	1706 1.34
	2209 0.45		2314 0.34

## MARCH

Time	m	Time	m
<b>1</b>	0532 1.66	<b>16</b>	0437 1.71
	1207 0.61		1115 0.55
SU	1749 1.32	MO	1653 1.38
	2350 0.46		2255 0.42
<b>2</b>	0615 1.72	<b>17</b>	0533 1.85
	1244 0.54		1205 0.40
MO	1832 1.40	TU	1751 1.52
			2355 0.29
<b>3</b>	0031 0.41	<b>18</b>	0623 1.96
	0652 1.76		1250 0.27
TU	1316 0.48	WE	1842 1.67
	1909 1.47		
<b>4</b>	0108 0.36	<b>19</b>	0048 0.19
	0726 1.79		0709 2.02
WE	1346 0.43	TH	1332 0.17
	1942 1.53		1930 1.80
<b>5</b>	0142 0.33	<b>20</b>	0137 0.12
	0758 1.80		0755 2.03
TH	1415 0.39	FR	1413 0.10
	2015 1.58	●	2017 1.90
<b>6</b>	0215 0.33	<b>21</b>	0225 0.12
	0829 1.79		0839 1.98
FR	1443 0.36	SA	1454 0.09
○	2047 1.61		2105 1.95
<b>7</b>	0248 0.35	<b>22</b>	0313 0.18
	0900 1.76		0923 1.87
SA	1511 0.36	SU	1536 0.13
	2119 1.63		2151 1.94
<b>8</b>	0321 0.39	<b>23</b>	0402 0.29
	0930 1.70		1006 1.72
SU	1540 0.36	MO	1616 0.21
	2152 1.63		2239 1.89
<b>9</b>	0355 0.45	<b>24</b>	0455 0.43
	1001 1.63		1051 1.55
MO	1609 0.38	TU	1658 0.32
	2228 1.62		2329 1.80
<b>10</b>	0432 0.53	<b>25</b>	0554 0.57
	1033 1.54		1139 1.39
TU	1642 0.42	WE	1744 0.45
	2306 1.59		
<b>11</b>	0514 0.61	<b>26</b>	0026 1.70
	1109 1.45		0708 0.68
WE	1718 0.47	TH	1237 1.26
	2351 1.55		1839 0.56
<b>12</b>	0605 0.69	<b>27</b>	0136 1.61
	1153 1.35		0831 0.73
TH	1803 0.52	FR	1400 1.18
		●	1951 0.64
<b>13</b>	0050 1.52	<b>28</b>	0252 1.56
	0715 0.75		0948 0.72
FR	1251 1.27	SA	1528 1.19
	1902 0.56		2115 0.67
<b>14</b>	0210 1.52	<b>29</b>	0359 1.57
	0848 0.75		1049 0.67
SA	1415 1.23	SU	1637 1.26
●	2019 0.57		2228 0.64
<b>15</b>	0332 1.59	<b>30</b>	0454 1.60
	1012 0.67		1133 0.60
SU	1543 1.27	MO	1728 1.35
	2141 0.52		2324 0.58
		<b>31</b>	0539 1.64
			1209 0.53
			TU 1810 1.45

## APRIL

Time	m	Time	m
<b>1</b>	0008 0.52	<b>16</b>	0555 1.87
	0617 1.67		1221 0.23
WE	1241 0.46	TH	1826 1.77
	1847 1.54		
<b>2</b>	0046 0.46	<b>17</b>	0033 0.29
	0652 1.70		0643 1.89
TH	1311 0.41	FR	1303 0.14
	1920 1.61		1914 1.91
<b>3</b>	0121 0.43	<b>18</b>	0124 0.24
	0725 1.71		0729 1.87
FR	1339 0.36	SA	1344 0.10
	1952 1.68		2001 2.00
<b>4</b>	0156 0.41	<b>19</b>	0213 0.24
	0757 1.69		0815 1.80
SA	1407 0.33	SU	1425 0.10
○	2024 1.73	●	2046 2.04
<b>5</b>	0229 0.41	<b>20</b>	0302 0.28
	0829 1.66		0859 1.69
SU	1435 0.32	MO	1505 0.15
	2056 1.76		2132 2.03
<b>6</b>	0304 0.43	<b>21</b>	0352 0.36
	0900 1.61		0944 1.57
MO	1505 0.32	TU	1545 0.24
	2129 1.77		2218 1.97
<b>7</b>	0340 0.47	<b>22</b>	0444 0.47
	0933 1.55		1029 1.43
TU	1535 0.34	WE	1626 0.35
	2205 1.76		2305 1.87
<b>8</b>	0420 0.52	<b>23</b>	0541 0.57
	1008 1.47		1117 1.32
WE	1609 0.39	TH	1710 0.48
	2244 1.73		2354 1.76
<b>9</b>	0504 0.59	<b>24</b>	0645 0.65
	1048 1.39		1212 1.22
TH	1647 0.45	FR	1802 0.59
	2329 1.69		
<b>10</b>	0558 0.65	<b>25</b>	0052 1.65
	1136 1.31		0753 0.69
FR	1734 0.51	SA	1328 1.18
			1906 0.69
<b>11</b>	0026 1.64	<b>26</b>	0158 1.57
	0709 0.68		0858 0.69
SA	1240 1.25	SU	1453 1.20
	1836 0.58	●	2026 0.73
<b>12</b>	0139 1.63	<b>27</b>	0305 1.54
	0832 0.66		0957 0.65
SU	1408 1.24	MO	1602 1.27
●	1955 0.60		2144 0.73
<b></b>			

# AUSTRALIA, EAST COAST – MOOLOOLABA

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0020 0.57 0613 1.59 FR 1231 0.39 1853 1.67	<b>16</b>	0021 0.40 0617 1.71 SA 1235 0.16 1858 1.96	<b>1</b>	0114 0.53 0650 1.48 MO 1256 0.28 1935 1.86	<b>16</b>	0154 0.41 0735 1.46 TU 1338 0.17 2013 2.02	<b>1</b>	0135 0.45 0706 1.42 WE 1309 0.18 1951 1.96	<b>16</b>	0222 0.40 0803 1.39 TH 1401 0.21 ● 2033 1.92	<b>1</b>	0239 0.20 0823 1.53 SA 1424 0.04 2058 2.06	<b>16</b>	0300 0.32 0855 1.44 SU 1453 0.25 2112 1.75
<b>2</b>	0058 0.52 0649 1.59 SA 1301 0.34 1926 1.75	<b>17</b>	0113 0.36 0706 1.67 SU 1317 0.13 1944 2.03	<b>2</b>	0153 0.48 0729 1.47 TU 1332 0.24 2012 1.92	<b>17</b>	0239 0.41 0820 1.43 WE 1418 0.21 ● 2054 2.00	<b>2</b>	0217 0.38 0751 1.45 TH 1351 0.14 ○ 2034 2.01	<b>17</b>	0258 0.39 0842 1.39 FR 1438 0.24 2109 1.88	<b>2</b>	0322 0.16 0912 1.57 SU 1512 0.06 2142 2.02	<b>17</b>	0330 0.32 0930 1.44 MO 1526 0.31 2143 1.69
<b>3</b>	0135 0.48 0723 1.58 SU 1330 0.30 1959 1.81	<b>18</b>	0203 0.35 0752 1.61 MO 1358 0.14 ● 2029 2.06	<b>3</b>	0233 0.44 0810 1.46 WE 1409 0.22 ○ 2051 1.96	<b>18</b>	0322 0.42 0902 1.39 TH 1458 0.26 2133 1.95	<b>3</b>	0300 0.33 0838 1.47 FR 1436 0.13 2117 2.04	<b>18</b>	0333 0.40 0920 1.38 SA 1514 0.29 2143 1.83	<b>3</b>	0407 0.15 1002 1.59 MO 1600 0.14 2227 1.92	<b>18</b>	0401 0.33 1005 1.43 TU 1602 0.39 2216 1.60
<b>4</b>	0211 0.46 0758 1.56 MO 1401 0.28 ○ 2033 1.86	<b>19</b>	0252 0.37 0838 1.53 TU 1439 0.19 2113 2.04	<b>4</b>	0315 0.42 0853 1.45 TH 1449 0.23 2132 1.97	<b>19</b>	0404 0.45 0945 1.36 FR 1536 0.34 2211 1.87	<b>4</b>	0345 0.30 0926 1.47 SA 1522 0.16 2202 2.01	<b>19</b>	0407 0.41 0957 1.40 SU 1550 0.36 2217 1.75	<b>4</b>	0454 0.18 1054 1.57 TU 1651 0.27 2313 1.78	<b>19</b>	0433 0.36 1043 1.40 WE 1639 0.48 2249 1.51
<b>5</b>	0248 0.45 0833 1.52 TU 1434 0.28 2109 1.88	<b>20</b>	0340 0.41 0923 1.45 WE 1519 0.26 2156 1.98	<b>5</b>	0401 0.42 0939 1.42 FR 1533 0.27 2216 1.95	<b>20</b>	0444 0.49 1025 1.32 SA 1615 0.42 2249 1.78	<b>5</b>	0432 0.29 1017 1.47 SU 1611 0.23 2248 1.95	<b>20</b>	0442 0.43 1036 1.34 MO 1627 0.45 2251 1.67	<b>5</b>	0543 0.23 1150 1.55 WE 1749 0.42	<b>20</b>	0507 0.39 1124 1.37 TH 1722 0.57 2325 1.40
<b>6</b>	0328 0.46 0910 1.48 WE 1508 0.30 2147 1.88	<b>21</b>	0428 0.47 1007 1.37 TH 1559 0.36 2239 1.89	<b>6</b>	0449 0.43 1029 1.39 SA 1620 0.34 2304 1.90	<b>21</b>	0524 0.52 1109 1.28 SU 1656 0.52 2329 1.69	<b>6</b>	0522 0.31 1111 1.46 MO 1703 0.34 2336 1.85	<b>21</b>	0518 0.45 1117 1.32 TU 1708 0.54 2327 1.57	<b>6</b>	0603 1.61 0636 0.28 TH 1255 1.52 1859 0.56	<b>21</b>	0546 0.43 1213 1.34 FR 1813 0.66
<b>7</b>	0411 0.49 0951 1.42 TH 1546 0.34 2229 1.85	<b>22</b>	0517 0.54 1053 1.30 FR 1641 0.47 2322 1.78	<b>7</b>	0543 0.44 1124 1.36 SU 1713 0.42 2356 1.83	<b>22</b>	0607 0.55 1158 1.26 MO 1743 0.62	<b>7</b>	0615 0.33 1210 1.45 TU 1802 0.45	<b>22</b>	0557 0.48 1205 1.30 WE 1755 0.64	<b>7</b>	0101 1.44 0735 0.33 FR 1412 1.52 ● 2027 0.64	<b>22</b>	0007 1.29 0631 0.46 SA 1316 1.33 1924 0.73
<b>8</b>	0458 0.53 1037 1.36 FR 1629 0.41 2316 1.81	<b>23</b>	0607 0.59 1143 1.24 SA 1728 0.58	<b>8</b>	0643 0.45 1228 1.35 MO 1813 0.51	<b>23</b>	0611 1.60 0654 0.56 TU 1257 1.25 1839 0.70	<b>8</b>	0615 0.33 0711 0.34 WE 1319 1.46 1911 0.56	<b>23</b>	0608 1.47 0642 0.49 TH 1304 1.29 1854 0.73	<b>8</b>	0213 1.31 0839 0.36 SA 1529 1.56 2157 0.65	<b>23</b>	0104 1.20 0728 0.48 SU 1436 1.36 ● 2058 0.73
<b>9</b>	0555 0.56 1130 1.31 SA 1720 0.49	<b>24</b>	0009 1.68 0701 0.63 SU 1243 1.21 1824 0.67	<b>9</b>	0054 1.75 0744 0.44 TU 1341 1.38 1925 0.58	<b>24</b>	0058 1.51 0746 0.56 WE 1410 1.27 ● 1949 0.77	<b>9</b>	0129 1.59 0810 0.35 TH 1434 1.50 ● 2034 0.63	<b>24</b>	0055 1.37 0732 0.50 FR 1418 1.31 ● 2011 0.78	<b>9</b>	0330 1.24 0945 0.36 SU 1636 1.63 2310 0.59	<b>24</b>	0220 1.15 0836 0.46 MO 1550 1.45 2222 0.66
<b>10</b>	0011 1.76 0701 0.57 SU 1237 1.28 1823 0.56	<b>25</b>	0101 1.59 0757 0.63 MO 1400 1.22 1932 0.74	<b>10</b>	0158 1.68 0843 0.40 WE 1455 1.46 ● 2046 0.62	<b>25</b>	0154 1.43 0839 0.54 TH 1523 1.33 2107 0.79	<b>10</b>	0235 1.48 0908 0.34 FR 1545 1.58 2158 0.64	<b>25</b>	0154 1.29 0828 0.49 SA 1532 1.38 2137 0.77	<b>10</b>	0440 1.24 1048 0.33 MO 1732 1.70	<b>25</b>	0340 1.16 0944 0.41 TU 1648 1.57 2322 0.55
<b>11</b>	0117 1.71 0811 0.55 MO 1358 1.30 ● 1939 0.60	<b>26</b>	0200 1.52 0853 0.61 TU 1514 1.27 ● 2048 0.77	<b>11</b>	0303 1.63 0940 0.35 TH 1602 1.58 2205 0.60	<b>26</b>	0255 1.38 0931 0.50 FR 1621 1.43 2219 0.76	<b>11</b>	0343 1.41 1007 0.32 SA 1649 1.69 2311 0.60	<b>26</b>	0302 1.25 0926 0.45 SU 1631 1.48 2250 0.70	<b>11</b>	0005 0.52 0537 1.27 TU 1141 0.29 1818 1.77	<b>26</b>	0445 1.23 1047 0.31 WE 1738 1.71
<b>12</b>	0228 1.70 0916 0.48 TU 1515 1.39 2103 0.60	<b>27</b>	0301 1.49 0945 0.57 WE 1615 1.36 2200 0.75	<b>12</b>	0404 1.59 1033 0.29 FR 1703 1.71 2314 0.55	<b>27</b>	0353 1.36 1019 0.45 SA 1710 1.54 2320 0.70	<b>12</b>	0447 1.37 1103 0.28 SU 1744 1.79	<b>27</b>	0408 1.25 1021 0.39 MO 1720 1.61 2346 0.60	<b>12</b>	0047 0.45 0625 1.32 WE 1228 0.24 1858 1.81	<b>27</b>	0009 0.41 0540 1.33 TH 1143 0.20 1824 1.85
<b>13</b>	0333 1.71 1013 0.40 WE 1621 1.53 2219 0.54	<b>28</b>	0357 1.47 1031 0.51 TH 1704 1.47 2301 0.71	<b>13</b>	0502 1.55 1124 0.24 SA 1755 1.84	<b>28</b>	0446 1.36 1103 0.39 SU 1752 1.65	<b>13</b>	0010 0.53 0544 1.36 MO 1154 0.24 1832 1.87	<b>28</b>	0506 1.28 1113 0.31 TU 1805 1.74	<b>13</b>	0125 0.39 0707 1.36 TH 1308 0.21 1935 1.83	<b>28</b>	0051 0.28 0630 1.45 FR 1235 0.09 1908 1.96
<b>14</b>	0432 1.73 1104 0.30 TH 1718 1.69 2324 0.47	<b>29</b>	0446 1.47 1112 0.45 FR 1746 1.58 2351 0.65	<b>14</b>	0014 0.50 0557 1.52 SU 1211 0.19 1844 1.94	<b>29</b>	0009 0.62 0534 1.37 MO 1146 0.32 1832 1.77	<b>14</b>	0100 0.47 0635 1.37 TU 1240 0.21 1916 1.91	<b>29</b>	0032 0.49 0558 1.34 WE 1203 0.21 1848 1.87	<b>14</b>	0158 0.35 0745 1.40 FR 1344 0.21 2008 1.82	<b>29</b>	0132 0.16 0718 1.55 SA 1323 0.01 1951 2.02
<b>15</b>	0527 1.73 1151 0.22 FR 1809 1.84	<b>30</b>	0529 1.47 1148 0.39 SA 1823 1.68	<b>15</b>	0106 0.44 0647 1.50 MO 1255 0.17 1930 2.00	<b>30</b>	0053 0.53 0620 1.39 TU 1226 0.24 1911 1.87	<b>15</b>	0143 0.42 0721 1.38 WE 1323 0.20 1956 1.93	<b>30</b>	0115 0.38 0647 1.41 TH 1251 0.12 1931 1.97	<b>15</b>	0229 0.33 0820 1.42 SA 1419 0.22 ● 2041 1.80	<b>30</b>	0214 0.07 0806 1.64 SU 1411 -0.02 ○ 2035 2.01
<b>31</b>	0033 0.58 0610 1.48 SU 1222 0.33 1859 1.78							<b>31</b>	0156 0.28 0735 1.48 FR 1337 0.06 ○ 2014 2.04			<b>31</b>	0255 0.03 0855 1.70 MO 1459 0.01 2119 1.95		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – MOOLOOLABA

LAT 26° 41' S LONG 153° 08' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0338 0.03	<b>16</b>	0321 0.25	<b>1</b>	0351 0.04	<b>16</b>	0404 0.29	<b>1</b>	0510 0.43	<b>16</b>	0441 0.32
	0943 1.72		0938 1.53		1014 1.82		1053 1.70		1153 1.66		1126 1.79
TU	1547 0.11	WE	1541 0.36	TH	1629 0.26	FR	1603 0.41	SU	1822 0.48	MO	1726 0.46
	2203 1.82		2143 1.51		2225 1.48		2149 1.34		2351 1.13		2301 1.20
<b>2</b>	0423 0.08	<b>17</b>	0352 0.27	<b>2</b>	0435 0.15	<b>17</b>	0348 0.26	<b>2</b>	0543 0.42	<b>17</b>	0451 0.37
	1034 1.70		1013 1.51		1106 1.75		1028 1.60		1233 1.60		1142 1.65
WE	1639 0.25	TH	1618 0.43	FR	1729 0.40	SA	1645 0.47	MO	1932 0.54	TU	1826 0.48
	2249 1.64		2215 1.42		2315 1.31		2226 1.26				
<b>3</b>	0508 0.16	<b>18</b>	0423 0.31	<b>3</b>	0522 0.27	<b>18</b>	0425 0.33	<b>3</b>	0106 1.07	<b>18</b>	0000 1.16
	1128 1.65		1052 1.48		1204 1.65		1110 1.56		0649 0.53		0548 0.44
TH	1738 0.40	FR	1658 0.52	SA	1843 0.52	SU	1735 0.53	TU	1338 1.51	WE	1241 1.61
	2338 1.45		2250 1.32				2311 1.18	☾	2041 0.55		1935 0.47
<b>4</b>	0558 0.26	<b>19</b>	0459 0.37	<b>4</b>	0014 1.16	<b>19</b>	0510 0.40	<b>4</b>	0235 1.09	<b>19</b>	0117 1.16
	1231 1.58		1136 1.44		0620 0.39		1202 1.52		0808 0.59		0659 0.50
FR	1851 0.54	SA	1748 0.60	SU	1313 1.56	MO	1840 0.58	WE	1444 1.46	TH	1349 1.59
			2332 1.22		2008 0.58				2141 0.51	☾	2042 0.42
<b>5</b>	0036 1.28	<b>20</b>	0543 0.42	<b>5</b>	0139 1.08	<b>20</b>	0011 1.11	<b>5</b>	0347 1.16	<b>20</b>	0240 1.24
	0657 0.35		1231 1.40		0733 0.48		0607 0.46		0924 0.60		0820 0.52
SA	1346 1.53	SU	1854 0.66	MO	1429 1.50	TU	1309 1.49	TH	1543 1.44	FR	1457 1.59
☾	2024 0.62			☾	2127 0.57		2002 0.57		2230 0.46		2142 0.33
<b>6</b>	0156 1.16	<b>21</b>	0028 1.13	<b>6</b>	0309 1.08	<b>21</b>	0135 1.09	<b>6</b>	0442 1.26	<b>21</b>	0350 1.37
	0808 0.42		0640 0.47		0854 0.52		0722 0.50		1028 0.57		0940 0.48
SU	1505 1.53	MO	1346 1.40	TU	1538 1.49	WE	1426 1.51	FR	1634 1.45	SA	1558 1.61
	2152 0.61	☾	2028 0.66		2230 0.52	☾	2119 0.49		2310 0.39		2235 0.23
<b>7</b>	0324 1.13	<b>22</b>	0151 1.09	<b>7</b>	0418 1.15	<b>22</b>	0303 1.16	<b>7</b>	0526 1.37	<b>22</b>	0449 1.54
	0924 0.43		0754 0.48		1006 0.50		0846 0.48		1120 0.52		1050 0.41
MO	1615 1.56	TU	1507 1.45	WE	1634 1.51	TH	1535 1.58	SA	1718 1.46	SU	1655 1.62
	2259 0.55		2152 0.59		2316 0.45		2219 0.38		2346 0.32		2324 0.13
<b>8</b>	0434 1.17	<b>23</b>	0321 1.13	<b>8</b>	0510 1.25	<b>23</b>	0411 1.29	<b>8</b>	0605 1.48	<b>23</b>	0542 1.70
	1032 0.40		0913 0.44		1103 0.45		1002 0.40		1205 0.47		1151 0.34
TU	1710 1.61	WE	1612 1.56	TH	1720 1.54	FR	1632 1.66	SU	1758 1.47	MO	1748 1.62
	2348 0.48		2252 0.46		2353 0.38		2309 0.25				
<b>9</b>	0528 1.24	<b>24</b>	0428 1.24	<b>9</b>	0553 1.35	<b>24</b>	0507 1.46	<b>9</b>	0017 0.26	<b>24</b>	0009 0.04
	1127 0.35		1025 0.34		1149 0.39		1107 0.30		0639 1.57		0631 1.85
WE	1755 1.66	TH	1707 1.69	FR	1800 1.57	SA	1725 1.73	MO	1245 0.42	TU	1247 0.27
			2341 0.32				2354 0.12		1834 1.48		1838 1.60
<b>10</b>	0025 0.41	<b>25</b>	0524 1.38	<b>10</b>	0024 0.31	<b>25</b>	0558 1.62	<b>10</b>	0047 0.21	<b>25</b>	0052 -0.01
	0612 1.32		1125 0.22		0629 1.44		1204 0.20		0712 1.64		0719 1.96
TH	1212 0.30	FR	1755 1.81	SA	1229 0.34	SU	1814 1.77	TU	1322 0.38	WE	1339 0.24
	1833 1.69				1836 1.59				1909 1.47		1927 1.55
<b>11</b>	0058 0.35	<b>26</b>	0024 0.18	<b>11</b>	0054 0.26	<b>26</b>	0036 0.01	<b>11</b>	0116 0.18	<b>26</b>	0135 -0.02
	0650 1.39		0614 1.53		0703 0.51		0646 1.77		0745 1.71		0806 2.01
FR	1250 0.26	SA	1219 0.11	SU	1305 0.31	MO	1256 0.13	WE	1358 0.36	TH	1429 0.24
	1908 1.71		1841 1.89		1909 1.59		1901 1.77		1942 1.44	☾	2015 1.49
<b>12</b>	0128 0.30	<b>27</b>	0105 0.06	<b>12</b>	0123 0.22	<b>27</b>	0118 -0.05	<b>12</b>	0146 0.16	<b>27</b>	0217 0.01
	0725 1.44		0702 1.66		0736 1.57		0733 1.89		0819 1.75		0852 2.02
SA	1325 0.24	SU	1309 0.03	MO	1340 0.29	TU	1347 0.11	TH	1434 0.36	FR	1519 0.27
	1940 1.71		1926 1.92		1940 1.58	☾	1947 1.72	☾	2017 1.41		2101 1.41
<b>13</b>	0157 0.26	<b>28</b>	0146 -0.02	<b>13</b>	0150 0.19	<b>28</b>	0159 -0.07	<b>13</b>	0216 0.16	<b>28</b>	0300 0.08
	0758 1.49		0749 1.77		0808 1.62		0820 1.95		0853 1.77		0938 1.97
SU	1359 0.23	MO	1358 0.01	TU	1415 0.29	WE	1436 0.13	FR	1512 0.37	SA	1607 0.32
☾	2011 1.69	☾	2010 1.89	☾	2011 1.54		2032 1.63		2053 1.37		2147 1.33
<b>14</b>	0225 0.24	<b>29</b>	0227 -0.06	<b>14</b>	0217 0.18	<b>29</b>	0241 -0.03	<b>14</b>	0248 0.18	<b>29</b>	0341 0.19
	0831 1.52		0837 1.84		0840 1.64		0907 1.96		0930 1.76		1022 1.89
MO	1432 0.25	TU	1446 0.04	WE	1449 0.32	TH	1527 0.19	SA	1552 0.39	SU	1657 0.39
	2041 1.65		2055 1.80		2043 1.49		2119 1.50		2130 1.31		2233 1.25
<b>15</b>	0253 0.23	<b>30</b>	0308 -0.03	<b>15</b>	0246 0.19	<b>30</b>	0322 0.05	<b>15</b>	0324 0.23	<b>30</b>	0424 0.31
	0904 1.53		0925 1.86		0914 1.65		0955 1.92		1009 1.74		1107 1.78
TU	1506 0.30	WE	1536 0.13	TH	1525 0.36	FR	1620 0.29	SU	1636 0.43	MO	1748 0.46
	2112 1.59		2140 1.66		2114 1.42		2205 1.37		2212 1.26		2322 1.18
						<b>31</b>	0405 0.16				
							1044 1.83				
							SA 1717 0.39				
							2254 1.24				<b>31</b>
											0526 0.53
											1154 1.61
											TH 1831 0.51

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – NOOSA HEAD

LAT 26° 23' S LONG 153° 06' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0523 1.80	<b>16</b>	0438 1.70
	1144 0.71		1051 0.89
TH	1721 1.49	FR	1623 1.48
	2336 0.39		2237 0.57
<b>2</b>	0612 1.89	<b>17</b>	0529 1.84
	1237 0.65		1153 0.78
FR	1814 1.49	SA	1721 1.51
			2333 0.48
<b>3</b>	0021 0.35	<b>18</b>	0616 1.98
	0656 1.97		1245 0.66
SA	1322 0.60	SU	1814 1.56
	1900 1.51		
<b>4</b>	0103 0.33	<b>19</b>	0024 0.37
	0736 2.02		0702 2.10
SU	1403 0.55	MO	1332 0.54
	1942 1.52		1906 1.62
<b>5</b>	0141 0.33	<b>20</b>	0112 0.27
	0814 2.03		0749 2.20
MO	1440 0.53	TU	1417 0.42
	2021 1.52		1958 1.68
<b>6</b>	0215 0.35	<b>21</b>	0201 0.20
	0848 2.01		0837 2.25
TU	1514 0.54	WE	1504 0.34
	2057 1.51		2049 1.72
<b>7</b>	0248 0.39	<b>22</b>	0251 0.19
	0921 1.98		0924 2.24
WE	1545 0.55	TH	1550 0.30
	2131 1.49		2140 1.74
<b>8</b>	0319 0.45	<b>23</b>	0340 0.24
	0954 1.93		1011 2.16
TH	1616 0.56	FR	1637 0.31
	2206 1.48		2230 1.72
<b>9</b>	0354 0.52	<b>24</b>	0430 0.34
	1026 1.87		1056 2.03
FR	1649 0.59	SA	1725 0.35
	2243 1.46		2320 1.68
<b>10</b>	0430 0.61	<b>25</b>	0523 0.48
	1101 1.80		1141 1.87
SA	1725 0.62	SU	1814 0.41
	2324 1.43		
<b>11</b>	0510 0.72	<b>26</b>	0017 1.64
	1135 1.71		0623 0.63
SU	1803 0.66	MO	1231 1.70
			1907 0.47
<b>12</b>	0010 1.41	<b>27</b>	0128 1.61
	0557 0.83		0736 0.76
MO	1213 1.63	TU	1332 1.55
	1844 0.69		2008 0.53
<b>13</b>	0110 1.41	<b>28</b>	0251 1.63
	0654 0.92		0902 0.83
TU	1258 1.55	WE	1453 1.44
	1933 0.71		2115 0.56
<b>14</b>	0231 1.46	<b>29</b>	0405 1.69
	0810 0.97		1031 0.83
WE	1400 1.49	TH	1607 1.40
	2033 0.69		2223 0.56
<b>15</b>	0341 1.56	<b>30</b>	0509 1.77
	0935 0.96		1139 0.78
TH	1517 1.47	FR	1712 1.41
	2136 0.65		2322 0.52
		<b>31</b>	0601 1.86
			1229 0.72
			SA 1806 1.45

## FEBRUARY

Time	m	Time	m
<b>1</b>	0010 0.48	<b>16</b>	0552 1.99
	0644 1.93		1224 0.63
SU	1309 0.65	MO	1758 1.60
	1851 1.51		
<b>2</b>	0052 0.43	<b>17</b>	0008 0.41
	0722 1.98		0640 2.11
MO	1345 0.59	TU	1311 0.48
	1931 1.55		1851 1.70
<b>3</b>	0129 0.41	<b>18</b>	0059 0.29
	0756 2.00		0728 2.20
TU	1418 0.56	WE	1355 0.35
	2007 1.59		1943 1.80
<b>4</b>	0203 0.40	<b>19</b>	0149 0.21
	0829 2.00		0816 2.24
WE	1448 0.54	TH	1439 0.26
	2039 1.60		2034 1.88
<b>5</b>	0233 0.42	<b>20</b>	0239 0.18
	0858 1.98		0903 2.21
TH	1517 0.53	FR	1524 0.22
	2110 1.62		2123 1.91
<b>6</b>	0304 0.46	<b>21</b>	0328 0.24
	0927 1.94		0948 2.11
FR	1544 0.53	SA	1608 0.25
	2142 1.62		2211 1.90
<b>7</b>	0335 0.52	<b>22</b>	0417 0.35
	0956 1.89		1031 1.96
SA	1613 0.55	SU	1651 0.32
	2215 1.61		2257 1.85
<b>8</b>	0409 0.60	<b>23</b>	0508 0.50
	1026 1.82		1113 1.78
SU	1644 0.59	MO	1735 0.41
	2249 1.59		2347 1.78
<b>9</b>	0445 0.70	<b>24</b>	0604 0.65
	1057 1.73		1158 1.61
MO	1716 0.63	TU	1822 0.51
	2328 1.56		
<b>10</b>	0526 0.81	<b>25</b>	0047 1.71
	1130 1.64		0713 0.79
TU	1752 0.68	WE	1253 1.46
			1920 0.61
<b>11</b>	0014 1.54	<b>26</b>	0210 1.67
	0617 0.90		0841 0.86
WE	1211 1.54	TH	1422 1.36
	1837 0.72		2033 0.67
<b>12</b>	0122 1.54	<b>27</b>	0330 1.68
	0727 0.97		1009 0.86
TH	1307 1.46	FR	1548 1.35
	1935 0.74		2152 0.69
<b>13</b>	0254 1.60	<b>28</b>	0438 1.73
	0859 0.98		1116 0.81
FR	1436 1.41	SA	1656 1.39
	2049 0.72		2258 0.66
<b>14</b>	0404 1.71	<b>29</b>	0500 1.85
	1028 0.90		1133 0.78
SA	1600 1.44	SU	1703 1.50
	2205 0.65		2311 0.54

## MARCH

Time	m	Time	m
<b>1</b>	0533 1.80	<b>16</b>	0430 1.85
	1204 0.74		1107 0.72
SU	1751 1.47	MO	1646 1.53
	2351 0.60		2251 0.60
<b>2</b>	0617 1.86	<b>17</b>	0523 1.97
	1242 0.67		1157 0.57
MO	1834 1.55	TU	1741 1.66
			2351 0.47
<b>3</b>	0033 0.54	<b>18</b>	0613 2.07
	0655 1.91		1243 0.42
TU	1316 0.60	WE	1833 1.80
	1913 1.62		
<b>4</b>	0111 0.50	<b>19</b>	0044 0.35
	0729 1.94		0702 2.13
WE	1347 0.56	TH	1325 0.29
	1947 1.68		1924 1.93
<b>5</b>	0144 0.48	<b>20</b>	0135 0.26
	0801 1.95		0749 2.15
TH	1416 0.53	FR	1409 0.21
	2018 1.72		2014 2.03
<b>6</b>	0215 0.49	<b>21</b>	0224 0.24
	0829 1.93		0836 2.09
FR	1442 0.51	SA	1452 0.19
	2048 1.75		2102 2.07
<b>7</b>	0246 0.51	<b>22</b>	0313 0.29
	0856 1.91		0921 1.98
SA	1509 0.51	SU	1534 0.23
	2117 1.77		2148 2.06
<b>8</b>	0317 0.55	<b>23</b>	0402 0.39
	0924 1.86		1004 1.83
SU	1536 0.52	MO	1615 0.32
	2147 1.77		2232 1.99
<b>9</b>	0350 0.61	<b>24</b>	0451 0.53
	0953 1.79		1045 1.66
MO	1604 0.55	TU	1655 0.44
	2220 1.76		2318 1.91
<b>10</b>	0425 0.69	<b>25</b>	0545 0.66
	1024 1.70		1128 1.52
TU	1635 0.60	WE	1737 0.56
	2256 1.73		
<b>11</b>	0506 0.78	<b>26</b>	0009 1.81
	1058 1.60		0650 0.77
WE	1710 0.66	TH	1221 1.40
	2339 1.69		1831 0.67
<b>12</b>	0555 0.87	<b>27</b>	0116 1.72
	1140 1.50		0810 0.84
TH	1753 0.72	FR	1345 1.32
			1944 0.76
<b>13</b>	0037 1.66	<b>28</b>	0239 1.68
	0703 0.93		0928 0.84
FR	1238 1.42	SA	1519 1.34
	1852 0.77		2109 0.80
<b>14</b>	0206 1.66	<b>29</b>	0348 1.69
	0836 0.93		1032 0.80
SA	1415 1.38	SU	1628 1.40
	2013 0.78		2222 0.78
<b>15</b>	0328 1.74	<b>30</b>	0445 1.73
	1004 0.85		1122 0.74
SU	1543 1.43	MO	1722 1.50
	2139 0.72		2319 0.72
		<b>31</b>	0534 1.78
			1202 0.67
			TU 1807 1.60

## APRIL

Time	m	Time	m
<b>1</b>	0006 0.67	<b>16</b>	0543 1.97
	0615 1.82		1211 0.37
WE	1238 0.61	TH	1814 1.91
	1846 1.69		
<b>2</b>	0046 0.62	<b>17</b>	0027 0.44
	0652 1.85		0633 2.00
TH	1310 0.55	FR	1254 0.26
	1921 1.77		1904 2.04
<b>3</b>	0123 0.59	<b>18</b>	0119 0.36
	0725 1.86		0722 1.99
FR	1339 0.52	SA	1337 0.20
	1953 1.83		1953 2.14
<b>4</b>	0156 0.57	<b>19</b>	0209 0.34
	0755 1.85		0810 1.93
SA	1406 0.50	SU	1420 0.20
	2022 1.87		2040 2.18
<b>5</b>	0227 0.58	<b>20</b>	0259 0.37
	0823 1.82		0856 1.82
SU	1432 0.49	MO	1502 0.25
	2051 1.91		2126 2.15
<b>6</b>	0259 0.59	<b>21</b>	0347 0.45
	0853 1.78		0939 1.69
MO	1459 0.49	TU	1541 0.35
	2121 1.93		2209 2.08
<b>7</b>	0333 0.62	<b>22</b>	0436 0.55
	0924 1.72		1022 1.57
TU	1528 0.52	WE	1620 0.47
	2155 1.92		2251 1.99
<b>8</b>	0410 0.67	<b>23</b>	0527 0.65
	0959 1.64		1106 1.46
WE	1600 0.57	TH	1701 0.58
	2233 1.89		2338 1.88
<b>9</b>	0453 0.74	<b>24</b>	0624 0.73
	1038 1.55		1157 1.38
TH	1637 0.63	FR	1750 0.70
	2317 1.83		
<b>10</b>	0545 0.81	<b>25</b>	0032 1.78
	1125 1.46		0730 0.78
FR	1724 0.71	SA	1307 1.34
			1857 0.80
<b>11</b>	0013 1.78	<b>26</b>	0139 1.70
	0653 0.85		0836 0.79
SA	1230 1.39	SU	1438 1.36
	1826 0.77		2021 0.86
<b>12</b>	0130 1.75	<b>27</b>	0249 1.67
	0820 0.84		0936 0.78
SU	1405 1.39	MO	1547 1.42
	1950 0.80		2136 0.87
<b>13</b>	0253 1.78	<b>28</b>	0348 1.67

# AUSTRALIA, EAST COAST – NOOSA HEAD

LAT 26° 23' S LONG 153° 06' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0017 0.73	<b>16</b>	0015 0.53	<b>1</b>	0110 0.72	<b>16</b>	0150 0.51	<b>1</b>	0236 0.35	<b>16</b>	0300 0.44	
	0607 1.74		0609 1.83		0645 1.64		0734 1.62		0821 1.68		0857 1.56	
FR	1228 0.57	SA	1226 0.28	MO	1253 0.50	TU	1336 0.29	WE	1304 0.40	TH	1403 0.33	
	1850 1.83		1847 2.09		1928 2.01		2008 2.15		1944 2.10	●	2033 2.05	
<b>2</b>	0057 0.69	<b>17</b>	0107 0.47	<b>2</b>	0149 0.66	<b>17</b>	0236 0.49	<b>2</b>	0211 0.56	<b>17</b>	0259 0.48	
	0645 1.75		0659 1.80		0724 1.64		0820 1.59		0747 1.61		0845 1.54	
SA	1259 0.53	SU	1311 0.24	TU	1327 0.45	WE	1417 0.32	TH	1348 0.34	FR	1439 0.37	
	1924 1.90		1935 2.17		2003 2.07	●	2050 2.12	○	2027 2.16		2108 2.00	
<b>3</b>	0133 0.66	<b>18</b>	0158 0.44	<b>3</b>	0227 0.61	<b>18</b>	0319 0.50	<b>3</b>	0255 0.48	<b>18</b>	0333 0.50	
	0719 1.74		0748 1.76		0805 1.63		0902 1.55		0836 1.63		0921 1.52	
SU	1328 0.50	MO	1354 0.24	WE	1403 0.42	TH	1455 0.38	FR	1434 0.31	SA	1512 0.43	
	1955 1.96	●	2022 2.20	○	2043 2.11		2129 2.06		2112 2.17		2141 1.94	
<b>4</b>	0208 0.64	<b>19</b>	0247 0.44	<b>4</b>	0308 0.58	<b>19</b>	0400 0.54	<b>4</b>	0341 0.44	<b>19</b>	0406 0.52	
	0752 1.72		0835 1.68		0848 1.62		0943 1.51		0926 1.63		0957 1.50	
MO	1356 0.48	TU	1435 0.29	TH	1443 0.41	FR	1532 0.46	SA	1521 0.33	SU	1547 0.50	
○	2026 2.01		2106 2.17		2125 2.12		2206 1.99		2159 2.14		2214 1.87	
<b>5</b>	0242 0.62	<b>20</b>	0334 0.49	<b>5</b>	0353 0.56	<b>20</b>	0439 0.58	<b>5</b>	0430 0.43	<b>20</b>	0438 0.55	
	0826 1.70		0919 1.60		0936 1.59		1023 1.47		1017 1.61		1035 1.48	
TU	1427 0.47	WE	1514 0.38	FR	1528 0.44	SA	1610 0.55	SU	1612 0.39	MO	1623 0.58	
	2100 2.04		2147 2.10		2210 2.09		2244 1.90		2247 2.06		2249 1.79	
<b>6</b>	0319 0.62	<b>21</b>	0420 0.55	<b>6</b>	0442 0.57	<b>21</b>	0517 0.61	<b>6</b>	0520 0.43	<b>21</b>	0513 0.58	
	0902 1.66		1002 1.52		1025 1.55		1106 1.44		1110 1.59		1116 1.46	
WE	1500 0.48	TH	1552 0.48	SA	1616 0.50	SU	1651 0.64	MO	1706 0.48	TU	1705 0.69	
	2137 2.04		2229 2.01		2258 2.02		2324 1.81		2334 1.95		2324 1.70	
<b>7</b>	0400 0.64	<b>22</b>	0506 0.62	<b>7</b>	0535 0.59	<b>22</b>	0600 0.65	<b>7</b>	0613 0.45	<b>22</b>	0551 0.62	
	0944 1.60		1045 1.45		1120 1.51		1154 1.42		1207 1.57		1202 1.44	
TH	1538 0.52	FR	1633 0.58	SU	1710 0.58	MO	1739 0.75	TU	1805 0.59	WE	1751 0.80	
	2219 2.00		2310 1.91		2350 1.94							
<b>8</b>	0447 0.67	<b>23</b>	0553 0.67	<b>8</b>	0634 0.59	<b>23</b>	0007 1.72	<b>8</b>	0026 1.82	<b>23</b>	0002 1.60	
	1030 1.53		1133 1.41		1221 1.49		0646 0.69		0709 0.47		0632 0.66	
FR	1621 0.59	SA	1720 0.69	MO	1813 0.67	TU	1252 1.40	WE	1316 1.58	TH	1259 1.43	
	2306 1.94		2357 1.81				1835 0.85		1916 0.68		1846 0.89	
<b>9</b>	0541 0.72	<b>24</b>	0646 0.71	<b>9</b>	0048 1.85	<b>24</b>	0053 1.64	<b>9</b>	0128 1.70	<b>24</b>	0045 1.52	
	1122 1.46		1231 1.38		0736 0.58		0735 0.71		0808 0.47		0718 0.69	
SA	1712 0.67	SU	1817 0.79	TU	1335 1.52	WE	1402 1.42	TH	1433 1.62	FR	1413 1.46	
					1928 0.73	●	1942 0.92	○	2035 0.74	●	1956 0.95	
<b>10</b>	0000 1.88	<b>25</b>	0050 1.72	<b>10</b>	0154 1.78	<b>25</b>	0145 1.57	<b>10</b>	0239 1.60	<b>25</b>	0143 1.45	
	0647 0.73		0743 0.74		0836 0.54		0826 0.71		0908 0.46		0813 0.69	
SU	1228 1.42	MO	1346 1.38	WE	1451 1.59	TH	1511 1.48	FR	1544 1.71	SA	1522 1.54	
	1817 0.74		1928 0.87	●	2048 0.75		2055 0.95		2156 0.75		2119 0.95	
<b>11</b>	0107 1.82	<b>26</b>	0148 1.65	<b>11</b>	0302 1.73	<b>26</b>	0246 1.54	<b>11</b>	0348 1.54	<b>26</b>	0257 1.42	
	0759 0.71		0839 0.75		0935 0.49		0917 0.69		1008 0.44		0912 0.66	
MO	1352 1.44	TU	1500 1.43	TH	1557 1.71	FR	1607 1.58	SA	1647 1.81	SU	1618 1.65	
●	1939 0.78	●	2043 0.91		2202 0.73		2204 0.94		2310 0.71		2232 0.89	
<b>12</b>	0221 1.80	<b>27</b>	0249 1.62	<b>12</b>	0403 1.69	<b>27</b>	0344 1.53	<b>12</b>	0450 1.51	<b>27</b>	0404 1.43	
	0907 0.64		0931 0.73		1029 0.43		1008 0.65		1104 0.41		1012 0.60	
TU	1509 1.53	WE	1559 1.52	FR	1656 1.84	SA	1656 1.70	SU	1742 1.91	MO	1708 1.78	
	2103 0.76		2150 0.92		2310 0.68		2306 0.88				2333 0.79	
<b>13</b>	0328 1.81	<b>28</b>	0344 1.61	<b>13</b>	0500 1.67	<b>28</b>	0438 1.53	<b>13</b>	0009 0.65	<b>28</b>	0459 1.46	
	1004 0.55		1018 0.69		1119 0.37		1056 0.60		0546 1.51		1108 0.52	
WE	1612 1.67	TH	1650 1.62	SA	1748 1.96	SU	1741 1.82	MO	1155 0.37	TU	1753 1.90	
	2216 0.69		2250 0.88						1831 1.99			
<b>14</b>	0425 1.82	<b>29</b>	0435 1.62	<b>14</b>	0009 0.61	<b>29</b>	0000 0.81	<b>14</b>	0058 0.58	<b>29</b>	0023 0.68	
	1055 0.45		1102 0.64		0553 1.66		0528 1.55		0636 1.52		0551 1.51	
TH	1707 1.82	FR	1735 1.73	SU	1207 0.32	MO	1141 0.54	TU	1241 0.33	WE	1158 0.42	
	2318 0.61		2343 0.83		1837 2.06		1822 1.92		1914 2.05		1838 2.02	
<b>15</b>	0518 1.83	<b>30</b>	0521 1.64	<b>15</b>	0102 0.55	<b>30</b>	0046 0.73	<b>15</b>	0141 0.52	<b>30</b>	0108 0.56	
	1142 0.36		1143 0.59		0645 1.64		0615 1.56		0723 1.54		0640 1.57	
FR	1758 1.96	SA	1816 1.84	MO	1252 0.29	TU	1223 0.47	WE	1323 0.32	TH	1246 0.32	
					1923 2.13		1903 2.02		1955 2.07		1923 2.12	
		<b>31</b>	0028 0.77							<b>31</b>	0151 0.44	
			0604 1.64								0730 1.63	
			SU	1219 0.54							FR	1334 0.24
				1852 1.93							○	2008 2.18

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – WADDY POINT (FRASER ISLAND)

LAT 24° 58' S LONG 153° 21' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0527 1.85	<b>16</b>	0453 1.69	<b>1</b>	0637 1.96	<b>16</b>	0551 1.98	<b>1</b>	0607 1.79	<b>16</b>	0544 1.96
	1141 0.83		1108 0.86		1304 0.76		1226 0.59		1231 0.66		1208 0.40
TH	1718 1.44	FR	1620 1.36	SU	1850 1.43	MO	1757 1.47	WE	1847 1.61	TH	1824 1.83
	2315 0.51		2237 0.50		2356 0.41		2356 0.41		2245 0.61		
<b>2</b>	0611 1.95	<b>17</b>	0536 1.83	<b>2</b>	0026 0.56	<b>17</b>	0636 2.11	<b>2</b>	0610 1.88	<b>17</b>	0522 1.98
	1231 0.77		1200 0.74		0713 2.00		1309 0.46		1240 0.77		1159 0.52
FR	1810 1.43	SA	1716 1.38	MO	1339 0.70	TU	1848 1.57	MO	1836 1.47	TU	1748 1.57
	2358 0.47		2325 0.42		1930 1.46				2341 0.49		2341 0.49
<b>3</b>	0652 2.03	<b>18</b>	0617 1.97	<b>3</b>	0103 0.53	<b>18</b>	0043 0.32	<b>3</b>	0009 0.67	<b>18</b>	0609 2.08
	1313 0.70		1247 0.62		0748 2.01		0719 2.21		0645 1.90		1239 0.41
SA	1857 1.44	SU	1808 1.42	TU	1413 0.66	WE	1349 0.36	TU	1309 0.69	WE	1837 1.70
					2006 1.49		1937 1.68		1911 1.53		1949 1.76
<b>4</b>	0038 0.45	<b>19</b>	0010 0.34	<b>4</b>	0137 0.52	<b>19</b>	0129 0.27	<b>4</b>	0045 0.61	<b>19</b>	0028 0.40
	0730 2.07		0658 2.10		0821 2.00		0805 2.26		0718 1.91		0654 2.13
SU	1355 0.65	MO	1330 0.50	WE	1444 0.64	TH	1429 0.32	WE	1337 0.64	TH	1318 0.33
	1941 1.45		1859 1.49	○	2037 1.51	●	2026 1.77		1944 1.58		1923 1.83
<b>5</b>	0117 0.45	<b>20</b>	0056 0.27	<b>5</b>	0210 0.53	<b>20</b>	0216 0.30	<b>5</b>	0118 0.57	<b>20</b>	0115 0.35
	0808 2.09		0740 2.22		0851 1.97		0851 2.23		0749 1.90		0739 2.14
MO	1435 0.63	TU	1413 0.41	TH	1514 0.64	FR	1512 0.32	TH	1404 0.61	FR	1356 0.30
○	2020 1.45	●	1949 1.56		2108 1.52		2116 1.83		2014 1.63	●	2009 1.94
<b>6</b>	0153 0.48	<b>21</b>	0142 0.25	<b>6</b>	0243 0.57	<b>21</b>	0305 0.39	<b>6</b>	0151 0.56	<b>21</b>	0203 0.37
	0843 2.07		0826 2.28		0921 1.92		0938 2.14		0818 1.88		0826 2.08
TU	1513 0.63	WE	1457 0.35	FR	1543 0.65	SA	1555 0.38	FR	1429 0.59	SA	1436 0.32
	2056 1.44		2041 1.62		2140 1.53		2206 1.84	○	2043 1.66		2056 2.02
<b>7</b>	0227 0.53	<b>22</b>	0229 0.28	<b>7</b>	0318 0.64	<b>22</b>	0356 0.54	<b>7</b>	0225 0.58	<b>22</b>	0252 0.46
	0916 2.02		0914 2.28		0951 1.85		1026 1.98		0848 1.83		0912 1.97
WE	1547 0.65	TH	1543 0.35	SA	1613 0.66	SU	1641 0.48	SA	1457 0.59	SU	1518 0.40
	2129 1.42		2134 1.64		2215 1.53		2258 1.83		2115 1.69		2144 2.04
<b>8</b>	0300 0.59	<b>23</b>	0318 0.37	<b>8</b>	0355 0.72	<b>23</b>	0454 0.72	<b>8</b>	0301 0.64	<b>23</b>	0346 0.60
	0947 1.96		1022 2.21		1023 1.78		1115 1.81		0919 1.78		0959 1.82
TH	1621 0.68	FR	1629 0.39	SU	1645 0.68	MO	1728 0.59	SU	1526 0.60	MO	1600 0.51
	2203 1.41		2228 1.65		2255 1.53		2356 1.80		2150 1.71		2233 2.02
<b>9</b>	0336 0.66	<b>24</b>	0409 0.51	<b>9</b>	0437 0.81	<b>24</b>	0602 0.88	<b>9</b>	0339 0.71	<b>24</b>	0447 0.75
	1020 1.88		1052 2.08		1058 1.69		1207 1.63		0952 1.71		1048 1.66
FR	1656 0.70	SA	1717 0.47	MO	1720 0.69	TU	1821 0.69	MO	1555 0.62	TU	1645 0.64
	2242 1.40		2324 1.63		2342 1.52				2227 1.71		2325 1.96
<b>10</b>	0416 0.74	<b>25</b>	0504 0.68	<b>10</b>	0529 0.91	<b>25</b>	0104 1.77	<b>10</b>	0421 0.80	<b>25</b>	0555 0.88
	1055 1.80		1142 1.91		1138 1.59		0727 0.99		1028 1.62		1140 1.52
SA	1735 0.71	SU	1807 0.56	TU	1800 0.71	WE	1310 1.49	TU	1628 0.66	WE	1735 0.76
	2330 1.38				1921 0.78				2308 1.69		
<b>11</b>	0505 0.83	<b>26</b>	0027 1.62	<b>11</b>	0038 1.51	<b>26</b>	0224 1.76	<b>11</b>	0508 0.89	<b>26</b>	0024 1.89
	1134 1.71		0609 0.84		0634 0.99		0905 1.02		1108 1.53		0712 0.96
SU	1817 0.71	MO	1236 1.74	WE	1223 1.50	TH	1428 1.39	WE	1704 0.70	TH	1244 1.41
			1902 0.63		1847 0.71	●	2029 0.82		2356 1.67		1835 0.87
<b>12</b>	0029 1.38	<b>27</b>	0142 1.64	<b>12</b>	0151 1.53	<b>27</b>	0340 1.78	<b>12</b>	0608 0.96	<b>27</b>	0133 1.82
	0607 0.92		0731 0.96		0757 1.02		1035 0.98		1153 1.44		0839 0.99
MO	1218 1.61	TU	1337 1.58	TH	1320 1.41	FR	1552 1.35	TH	1750 0.74	FR	1408 1.35
	1904 0.70	●	2002 0.68	●	1944 0.70		2140 0.83			●	1944 0.93
<b>13</b>	0144 1.40	<b>28</b>	0304 1.69	<b>13</b>	0307 1.60	<b>28</b>	0442 1.81	<b>13</b>	0058 1.65	<b>28</b>	0246 1.78
	0720 0.98		0912 1.01		0935 0.98		1132 0.92		0728 0.98		0959 0.95
TU	1309 1.51	WE	1449 1.46	FR	1438 1.35	SA	1704 1.36	FR	1253 1.36	SA	1535 1.35
●	1954 0.68		2107 0.70		2051 0.67		2239 0.79		1849 0.77		2100 0.95
<b>14</b>	0302 1.47	<b>29</b>	0414 1.77	<b>14</b>	0411 1.71			<b>14</b>	0216 1.67	<b>29</b>	0352 1.76
	0841 1.00		1043 0.98		1047 0.87				0907 0.93		1054 0.89
WE	1409 1.43	TH	1604 1.39	SA	1554 1.34			SA	1420 1.33	SU	1647 1.39
	2049 0.63		2207 0.69		2204 0.61			●	2003 0.77		2211 0.92
<b>15</b>	0404 1.57	<b>30</b>	0511 1.85	<b>15</b>	0504 1.84			<b>15</b>	0328 1.75	<b>30</b>	0446 1.76
	1004 0.95		1147 0.91		1141 0.73				1021 0.81		1132 0.81
TH	1517 1.38	FR	1711 1.37	SU	1700 1.39			SU	1543 1.36	MO	1735 1.46
	2145 0.57		2259 0.65		2305 0.51				2131 0.71		2305 0.85
		<b>31</b>	0558 1.91					<b>31</b>	0530 1.77		
			1230 0.84						1204 0.74		
			SA 1806 1.39						TU 1814 1.54		
			2345 0.61						2348 0.77		

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National Tidal Centre



# AUSTRALIA, EAST COAST – WADDY POINT (FRASER ISLAND)

LAT 24° 58' S LONG 153° 21' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0004 0.78	<b>16</b>	0007 0.65	<b>1</b>	0109 0.73	<b>16</b>	0155 0.68	<b>1</b>	0247 0.41	<b>16</b>	0316 0.59
	0605 1.65		0614 1.76		0649 1.48		0747 1.53		0833 1.52		0917 1.50
FR	1214 0.58	SA	1219 0.42	MO	1244 0.49	TU	1328 0.50	SA	1419 0.33	SU	1452 0.55
	1854 1.76		1857 2.02		1937 1.93		2018 2.12		2102 2.11		2128 1.81
<b>2</b>	0040 0.72	<b>17</b>	0059 0.61	<b>2</b>	0150 0.69	<b>17</b>	0244 0.66	<b>2</b>	0329 0.38	<b>17</b>	0345 0.61
	0639 1.63		0702 1.72		0728 1.48		0834 1.52		0921 1.58		0947 1.49
SA	1240 0.52	SU	1259 0.41	TU	1318 0.47	WE	1411 0.54	TH	1441 0.56	SU	1505 0.37
	1925 1.84		1941 2.12		2012 2.00		2102 2.12	FR	2127 1.98	MO	2158 1.74
<b>3</b>	0118 0.68	<b>18</b>	0151 0.60	<b>3</b>	0233 0.65	<b>18</b>	0332 0.68	<b>3</b>	0413 0.40	<b>18</b>	0413 0.64
	0712 1.61		0750 1.67		0810 1.48		0920 1.49		1011 1.60		1021 1.49
SU	1310 0.49	MO	1339 0.44	WE	1356 0.47	TH	1453 0.61	SA	1517 0.62	MO	1555 0.47
	1956 1.92	●	2025 2.18	○	2051 2.05		2143 2.07		2202 1.91		2230 1.65
<b>4</b>	0157 0.66	<b>19</b>	0243 0.63	<b>4</b>	0319 0.63	<b>19</b>	0418 0.72	<b>4</b>	0459 0.45	<b>19</b>	0444 0.67
	0747 1.59		0838 1.61		0856 1.48		1002 1.45		1104 1.61		1059 1.47
MO	1341 0.47	TU	1422 0.51	TH	1436 0.51	FR	1533 0.69	SA	1649 0.60	TU	1648 0.78
○	2029 1.97		2110 2.18		2134 2.07		2222 1.99		2328 1.86		2304 1.56
<b>5</b>	0239 0.66	<b>20</b>	0338 0.68	<b>5</b>	0408 0.63	<b>20</b>	0500 0.77	<b>5</b>	0548 0.53	<b>20</b>	0518 0.70
	0826 1.57		0926 1.54		0946 1.46		1042 1.41		1202 1.60		1143 1.45
TU	1414 0.49	WE	1503 0.60	FR	1521 0.57	SA	1613 0.77	SU	1606 0.57	TH	1741 0.87
	2106 2.01		2154 2.14		2221 2.04		2258 1.90		2300 2.02		2340 1.46
<b>6</b>	0323 0.68	<b>21</b>	0432 0.75	<b>6</b>	0459 0.65	<b>21</b>	0540 0.81	<b>6</b>	0531 0.57	<b>21</b>	0555 0.73
	0907 1.53		1013 1.47		1039 1.43		1124 1.38		1126 1.48		1236 1.43
WE	1449 0.54	TH	1545 0.71	SA	1609 0.66	SU	1657 0.84	MO	1700 0.67	TH	1845 0.94
	2146 2.01		2237 2.05		2311 1.98		2338 1.81		2352 1.92		1910 0.86
<b>7</b>	0411 0.72	<b>22</b>	0523 0.81	<b>7</b>	0551 0.68	<b>22</b>	0622 0.84	<b>7</b>	0622 0.61	<b>22</b>	0619 0.78
	0952 1.48		1059 1.41		1139 1.40		1217 1.36		1228 1.48		1231 1.38
TH	1527 0.61	FR	1628 0.82	SU	1701 0.75	MO	1749 0.91	TU	1759 0.78	WE	1816 0.92
	2229 1.97		2320 1.95								
<b>8</b>	0503 0.76	<b>23</b>	0612 0.86	<b>8</b>	0647 0.70	<b>23</b>	0709 0.85	<b>8</b>	0717 0.66	<b>23</b>	0704 0.79
	1042 1.42		1153 1.37		1245 1.39		1324 1.36		1339 1.50		1341 1.38
FR	1609 0.70	SA	1720 0.90	MO	1802 0.83	TU	1850 0.97	WE	1910 0.88	TH	1923 0.98
	2317 1.92										
<b>9</b>	0601 0.79	<b>24</b>	0704 0.89	<b>9</b>	0746 0.71	<b>24</b>	0803 0.83	<b>9</b>	0817 0.68	<b>24</b>	0754 0.78
	1139 1.36		1259 1.35		1359 1.43		1440 1.39		1457 1.56		1457 1.42
SA	1659 0.78	SU	1820 0.97	TU	1913 0.89	WE	2001 1.00	TH	2041 0.93	FR	2045 1.00
<b>10</b>	0012 1.86	<b>25</b>	0059 1.76	<b>10</b>	0208 1.76	<b>25</b>	0211 1.53	<b>10</b>	0256 1.56	<b>25</b>	0214 1.36
	0704 0.80		0803 0.89		0847 0.69		0858 0.79		0919 0.68		0848 0.75
SU	1252 1.34	MO	1417 1.36	WE	1514 1.51	TH	1549 1.46	FR	1609 1.66	SA	1603 1.48
	1802 0.85		1927 1.01	●	2039 0.91		2121 1.00		2216 0.92		2210 0.97
<b>11</b>	0118 1.81	<b>26</b>	0200 1.67	<b>11</b>	0313 1.69	<b>26</b>	0311 1.46	<b>11</b>	0406 1.48	<b>26</b>	0321 1.29
	0813 0.77		0906 0.85		0945 0.65		0948 0.74		1017 0.66		0946 0.70
MO	1413 1.37	TU	1531 1.41	TH	1621 1.63	FR	1645 1.54	SA	1709 1.76	SU	1657 1.57
●	1919 0.88	●	2042 1.02		2205 0.88		2234 0.96		2332 0.87		2313 0.89
<b>12</b>	0227 1.80	<b>27</b>	0302 1.61	<b>12</b>	0416 1.64	<b>27</b>	0408 1.41	<b>12</b>	0513 1.44	<b>27</b>	0425 1.26
	0918 0.70		0959 0.79		1035 0.60		1030 0.68		1108 0.62		1039 0.64
TU	1528 1.47	WE	1630 1.49	FR	1717 1.76	SA	1731 1.63	SU	1800 1.86	MO	1742 1.67
	2048 0.87		2159 0.98		2315 0.83		2331 0.89				
<b>13</b>	0333 1.80	<b>28</b>	0359 1.57	<b>13</b>	0515 1.60	<b>28</b>	0500 1.37	<b>13</b>	0610 1.43	<b>28</b>	0003 0.79
	1013 0.61		1038 0.72		1120 0.55		1110 0.61		1153 0.58		0524 1.27
WE	1632 1.60	TH	1717 1.59	SA	1805 1.89	SU	1810 1.72	MO	1846 1.94	TU	1127 0.56
	2211 0.80		2258 0.92						1846 1.94		1821 1.78
<b>14</b>	0432 1.80	<b>29</b>	0449 1.53	<b>14</b>	0608 1.57	<b>29</b>	0547 1.36	<b>14</b>	0701 1.44	<b>29</b>	0047 0.68
	1059 0.53		1110 0.65		1202 0.51		1148 0.55		1238 0.54		0616 1.31
TH	1726 1.74	FR	1757 1.68	SU	1850 2.00	MO	1845 1.81	TU	1928 2.00	WE	1210 0.48
	2314 0.72		2346 0.85						1928 2.00		1859 1.89
<b>15</b>	0525 1.79	<b>30</b>	0532 1.51	<b>15</b>	0658 1.55	<b>30</b>	0631 1.37	<b>15</b>	0746 1.46	<b>30</b>	0128 0.58
	1140 0.46		1139 0.59		1245 0.49		1226 0.50		1321 0.52		0702 1.37
FR	1812 1.89	SA	1831 1.77	MO	1934 2.08	TU	1921 1.90	WE	2010 2.03	TH	1252 0.40
									2010 2.03	●	1937 2.00
		<b>31</b>	0028 0.79					<b>31</b>	0207 0.48		0253 0.25
			0612 1.49						0747 1.45		0858 1.73
			SU 1211 0.53						FR 1335 0.35		MO 1448 0.30
			1904 1.85						○ 2018 2.08		2120 2.02

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Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – URANGAN

LAT 25° 18' S LONG 152° 55' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0555 3.47 1212 1.17 TH 1803 3.05	<b>16</b>	0519 3.12 1138 1.38 FR 1712 2.97 2331 0.93	<b>1</b>	0050 0.86 0712 3.66 SU 1338 1.07 1930 3.07	<b>16</b>	0001 0.83 0638 3.67 MO 1309 0.94 1849 3.28	<b>1</b>	0605 3.41 1233 1.22 SU 1830 2.96	<b>16</b>	0515 3.38 1152 1.11 MO 1735 3.10 2341 0.92	<b>1</b>	0046 1.06 0654 3.50 WE 1313 0.97 1921 3.25	<b>16</b>	0022 0.78 0637 3.76 TH 1308 0.54 1906 3.72
<b>2</b>	0021 0.76 0645 3.65 FR 1306 1.07 1856 3.08	<b>17</b>	0612 3.39 1234 1.18 SA 1809 3.09	<b>2</b>	0132 0.78 0750 3.75 MO 1417 0.99 2008 3.14	<b>17</b>	0057 0.61 0726 3.93 TU 1359 0.71 1942 3.50	<b>2</b>	0030 1.03 0647 3.55 MO 1313 1.09 1911 3.10	<b>17</b>	0613 3.66 1247 0.84 TU 1833 3.37	<b>2</b>	0125 0.96 0728 3.56 TH 1345 0.87 1953 3.36	<b>17</b>	0117 0.62 0725 3.84 FR 1353 0.40 1954 3.92
<b>3</b>	0107 0.69 0729 3.76 SA 1354 1.00 1942 3.11	<b>18</b>	0024 0.74 0700 3.66 SU 1327 0.98 1904 3.24	<b>3</b>	0210 0.73 0825 3.79 TU 1452 0.94 2041 3.19	<b>18</b>	0150 0.42 0811 4.12 WE 1446 0.52 2031 3.68	<b>3</b>	0112 0.92 0725 3.64 TU 1349 0.99 1947 3.20	<b>18</b>	0040 0.69 0703 3.89 WE 1335 0.61 1925 3.63	<b>3</b>	0201 0.89 0801 3.58 FR 1416 0.79 2023 3.45	<b>18</b>	0208 0.53 0809 3.84 SA 1435 0.34 2039 4.04
<b>4</b>	0149 0.65 0809 3.83 SU 1437 0.96 2023 3.12	<b>19</b>	0115 0.55 0745 3.90 MO 1417 0.79 1956 3.38	<b>4</b>	0244 0.71 0858 3.79 WE 1524 0.91 2112 3.21	<b>19</b>	0239 0.30 0855 4.20 TH 1532 0.41 2118 3.79	<b>4</b>	0150 0.84 0800 3.70 WE 1421 0.91 2019 3.28	<b>19</b>	0134 0.50 0749 4.04 TH 1421 0.43 2013 3.83	<b>4</b>	0236 0.86 0832 3.57 SA 1446 0.74 2053 3.51	<b>19</b>	0256 0.53 0853 3.74 SU 1515 0.36 2124 4.05
<b>5</b>	0226 0.64 0846 3.83 MO 1516 0.94 2100 3.11	<b>20</b>	0204 0.40 0829 4.07 TU 1507 0.64 2046 3.50	<b>5</b>	0317 0.72 0928 3.75 TH 1554 0.90 2141 3.22	<b>20</b>	0326 0.27 0938 4.16 FR 1616 0.38 2205 3.83	<b>5</b>	0224 0.79 0832 3.72 TH 1451 0.85 2048 3.34	<b>20</b>	0224 0.38 0833 4.09 FR 1505 0.34 2059 3.96	<b>5</b>	0309 0.87 0900 3.51 SU 1514 0.72 2122 3.54	<b>20</b>	0343 0.60 0934 3.57 MO 1553 0.47 2206 3.97
<b>6</b>	0301 0.66 0920 3.80 TU 1552 0.95 2133 3.09	<b>21</b>	0252 0.31 0914 4.16 WE 1555 0.54 2134 3.57	<b>6</b>	0347 0.77 0958 3.67 FR 1622 0.91 2209 3.21	<b>21</b>	0411 0.36 1021 4.01 SA 1657 0.46 2251 3.77	<b>6</b>	0258 0.77 0901 3.70 FR 1520 0.82 2117 3.38	<b>21</b>	0312 0.36 0916 4.01 SA 1545 0.34 2144 3.99	<b>6</b>	0343 0.91 0929 3.43 MO 1544 0.74 2152 3.53	<b>21</b>	0429 0.76 1016 3.33 TU 1630 0.64 2251 3.81
<b>7</b>	0334 0.71 0954 3.73 WE 1625 0.97 2204 3.05	<b>22</b>	0338 0.29 0958 4.14 TH 1642 0.51 2223 3.59	<b>7</b>	0417 0.87 1027 3.56 SA 1650 0.94 2239 3.17	<b>22</b>	0456 0.56 1104 3.75 SU 1737 0.61 2339 3.64	<b>7</b>	0329 0.80 0929 3.63 SA 1547 0.81 2145 3.39	<b>22</b>	0357 0.45 0957 3.83 SU 1625 0.44 2229 3.92	<b>7</b>	0417 1.00 1000 3.30 TU 1614 0.80 2225 3.47	<b>22</b>	0515 0.96 1100 3.08 WE 1708 0.87 2337 3.60
<b>8</b>	0406 0.81 1025 3.62 TH 1656 1.01 2235 3.01	<b>23</b>	0424 0.38 1043 4.02 FR 1726 0.55 2311 3.54	<b>8</b>	0448 1.01 1056 3.42 SU 1720 1.01 2313 3.10	<b>23</b>	0542 0.84 1150 3.44 MO 1819 0.81	<b>8</b>	0359 0.87 0957 3.53 SU 1615 0.83 2214 3.37	<b>23</b>	0442 0.64 1039 3.57 MO 1702 0.61 2315 3.77	<b>8</b>	0453 1.13 1034 3.15 WE 1646 0.91 2302 3.38	<b>23</b>	0605 1.17 1148 2.83 TH 1750 1.12
<b>9</b>	0437 0.93 1058 3.50 FR 1727 1.06 2308 2.95	<b>24</b>	0509 0.57 1129 3.81 SA 1810 0.66	<b>9</b>	0522 1.18 1130 3.24 MO 1753 1.10 2351 3.01	<b>24</b>	0031 3.46 0634 1.15 TU 1243 3.11 1908 1.03	<b>9</b>	0430 0.99 1025 3.39 MO 1644 0.90 2246 3.31	<b>24</b>	0528 0.90 1123 3.25 TU 1741 0.84	<b>9</b>	0534 1.26 1115 2.99 TH 1723 1.04 2348 3.27	<b>24</b>	0028 3.38 0701 1.35 FR 1251 2.63 1844 1.36
<b>10</b>	0510 1.09 1134 3.35 SA 1801 1.13 2345 2.87	<b>25</b>	0002 3.44 0558 0.82 SU 1218 3.55 1856 0.81	<b>10</b>	0602 1.38 1212 3.05 TU 1834 1.20	<b>25</b>	0130 3.28 0742 1.42 WE 1349 2.84 2011 1.22	<b>10</b>	0503 1.15 1057 3.22 TU 1715 1.00 2322 3.21	<b>25</b>	0004 3.56 0619 1.18 WE 1214 2.94 1826 1.10	<b>10</b>	0628 1.40 1209 2.82 FR 1812 1.18	<b>25</b>	0130 3.20 0807 1.45 SA 1411 2.54 2003 1.52
<b>11</b>	0548 1.28 1214 3.18 SU 1841 1.20	<b>26</b>	0057 3.31 0652 1.11 MO 1313 3.27 1948 0.96	<b>11</b>	0041 2.92 0658 1.57 WE 1308 2.88 1929 1.29	<b>26</b>	0241 3.15 0910 1.56 TH 1509 2.68 2128 1.31	<b>11</b>	0541 1.32 1135 3.04 WE 1751 1.12	<b>26</b>	0100 3.34 0723 1.42 TH 1321 2.69 1928 1.33	<b>11</b>	0049 3.18 0743 1.46 SA 1325 2.72 1923 1.30	<b>26</b>	0238 3.09 0916 1.45 SU 1530 2.57 2128 1.55
<b>12</b>	0032 2.79 0637 1.49 MO 1305 3.02 1930 1.26	<b>27</b>	0159 3.20 0803 1.36 TU 1417 3.03 2050 1.08	<b>12</b>	0151 2.86 0826 1.68 TH 1420 2.78 2041 1.31	<b>27</b>	0400 3.14 1037 1.52 FR 1632 2.69 2242 1.27	<b>12</b>	0007 3.11 0633 1.50 TH 1227 2.85 1841 1.25	<b>27</b>	0208 3.17 0843 1.55 FR 1446 2.57 2052 1.46	<b>12</b>	0208 3.15 0905 1.41 SU 1450 2.75 2049 1.31	<b>27</b>	0345 3.09 1018 1.37 MO 1638 2.71 2236 1.46
<b>13</b>	0136 2.73 0751 1.64 TU 1406 2.91 2030 1.28	<b>28</b>	0312 3.15 0931 1.49 WE 1530 2.87 2159 1.11	<b>13</b>	0317 2.91 0955 1.62 FR 1535 2.78 2153 1.22	<b>28</b>	0510 3.25 1143 1.38 SA 1739 2.81 2341 1.15	<b>13</b>	0110 3.02 0754 1.61 FR 1344 2.72 1954 1.34	<b>28</b>	0324 3.11 1005 1.52 SA 1609 2.61 2211 1.44	<b>13</b>	0328 3.23 1021 1.23 MO 1608 2.92 2209 1.18	<b>28</b>	0444 3.15 1110 1.24 TU 1731 2.90 2329 1.34
<b>14</b>	0254 2.75 0921 1.66 WE 1509 2.86 2134 1.23	<b>29</b>	0429 3.21 1056 1.45 TH 1646 2.83 2306 1.06	<b>14</b>	0438 3.09 1110 1.43 SA 1645 2.88 2300 1.05	<b>14</b>	0235 3.01 0926 1.56 SA 1508 2.73 2118 1.30	<b>14</b>	0235 3.01 0926 1.56 SA 1508 2.73 2118 1.30	<b>29</b>	0433 3.16 1109 1.39 SU 1715 2.76 2314 1.32	<b>14</b>	0442 3.40 1125 0.99 TU 1717 3.17 2320 0.98	<b>29</b>	0532 3.24 1153 1.09 WE 1814 3.08
<b>15</b>	0413 2.89 1035 1.56 TH 1612 2.88 2235 1.10	<b>30</b>	0536 3.36 1201 1.32 FR 1752 2.89	<b>15</b>	0545 3.37 1214 1.19 SU 1751 3.06	<b>15</b>	0401 3.14 1047 1.38 SU 1625 2.87 2233 1.14	<b>15</b>	0401 3.14 1047 1.38 SU 1625 2.87 2233 1.14	<b>30</b>	0529 3.28 1158 1.23 MO 1805 2.95	<b>15</b>	0544 3.60 1219 0.75 WE 1815 3.46	<b>30</b>	0015 1.21 0614 3.32 TH 1231 0.96 1850 3.25
		<b>31</b>	0002 0.96 0628 3.53 SA 1254 1.18 1845 2.98					<b>31</b>	0004 1.18 0614 3.40 TU 1238 1.09 1846 3.11						

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – URANGAN

LAT 25° 18' S LONG 152° 55' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0057 1.09	<b>16</b>	0101 0.78	<b>1</b>	0150 1.01	<b>16</b>	0232 0.82	<b>1</b>	0214 0.90	<b>16</b>	0301 0.83	<b>1</b>	0328 0.51	<b>16</b>	0340 0.77
	0652 3.37		0701 3.56		0730 3.23		0817 3.20		0748 3.19		0845 3.09		0908 3.45		0929 3.14
FR	1306 0.84	SA	1325 0.44	MO	1340 0.64	TU	1426 0.52	WE	1356 0.51	TH	1448 0.60	SA	1514 0.28	SU	1537 0.71
	1924 3.40		1936 3.92		2006 3.65		2047 3.93		2026 3.81	●	2107 3.81		2134 4.05		2146 3.62
<b>2</b>	0135 1.01	<b>17</b>	0153 0.71	<b>2</b>	0232 0.94	<b>17</b>	0318 0.82	<b>2</b>	0300 0.79	<b>17</b>	0338 0.83	<b>2</b>	0414 0.45	<b>17</b>	0408 0.79
	0727 3.40		0747 3.52		0808 3.24		0900 3.14		0834 3.25		0921 3.06	<b>2</b>	0956 3.49		0958 3.12
SA	1339 0.75	SU	1408 0.41	TU	1418 0.58	WE	1505 0.58	TH	1441 0.44	FR	1524 0.66	SU	1600 0.32	MO	1608 0.80
	1956 3.51		2021 4.01		2043 3.73	●	2127 3.88	○	2107 3.90		2142 3.74		2217 3.98		2215 3.50
<b>3</b>	0213 0.95	<b>18</b>	0243 0.70	<b>3</b>	0315 0.90	<b>18</b>	0401 0.86	<b>3</b>	0347 0.71	<b>18</b>	0413 0.86	<b>3</b>	0458 0.46	<b>18</b>	0435 0.83
	0800 3.39		0832 3.44		0848 3.23		0940 3.06		0921 3.28		0955 3.02		1045 3.47		1028 3.07
SU	1412 0.68	MO	1448 0.44	WE	1457 0.56	TH	1543 0.67	FR	1526 0.43	SA	1557 0.75	MO	1647 0.45	TU	1639 0.94
	2029 3.60	●	2104 4.02	○	2121 3.77		2205 3.77		2150 3.92		2215 3.63		2301 3.82		2243 3.34
<b>4</b>	0251 0.93	<b>19</b>	0331 0.74	<b>4</b>	0359 0.88	<b>19</b>	0439 0.93	<b>4</b>	0434 0.67	<b>19</b>	0444 0.90	<b>4</b>	0543 0.54	<b>19</b>	0504 0.90
	0833 3.36		0915 3.31		0931 3.20		1019 2.96		1009 3.28		1028 2.97		1136 3.41		1101 3.00
MO	1444 0.65	TU	1526 0.53	TH	1537 0.58	FR	1618 0.81	SA	1610 0.48	SU	1630 0.87	TU	1734 0.66	WE	1712 1.11
○	2101 3.65		2146 3.94		2202 3.76		2243 3.63		2234 3.87		2247 3.50		2348 3.57		2315 3.16
<b>5</b>	0328 0.93	<b>20</b>	0416 0.84	<b>5</b>	0446 0.89	<b>20</b>	0517 1.01	<b>5</b>	0521 0.68	<b>20</b>	0515 0.96	<b>5</b>	0628 0.67	<b>20</b>	0536 1.00
	0907 3.30		0957 3.15		1016 3.14		1057 2.86		1059 3.24		1101 2.91		1231 3.31		1139 2.91
TU	1517 0.65	WE	1603 0.67	FR	1618 0.66	SA	1654 0.97	SU	1656 0.59	MO	1703 1.02	WE	1826 0.92	TH	1751 1.30
	2136 3.65		2228 3.80		2245 3.70		2322 3.46		2320 3.75		2321 3.34				2353 2.96
<b>6</b>	0408 0.98	<b>21</b>	0501 0.96	<b>6</b>	0534 0.93	<b>21</b>	0555 1.09	<b>6</b>	0608 0.72	<b>21</b>	0548 1.03	<b>6</b>	0640 3.29	<b>21</b>	0615 1.12
	0942 3.22		1039 2.97		1106 3.06		1138 2.77		1153 3.19		1138 2.83		0719 0.81		1228 2.81
WE	1552 0.71	TH	1640 0.86	SA	1702 0.78	SU	1733 1.15	MO	1744 0.76	TU	1740 1.20	TH	1331 3.21	FR	1843 1.50
	2211 3.61		2310 3.62		2332 3.60						2358 3.16		1929 1.18		
<b>7</b>	0449 1.05	<b>22</b>	0545 1.10	<b>7</b>	0626 0.97	<b>22</b>	0626 3.29	<b>7</b>	0657 0.79	<b>22</b>	0625 1.11	<b>7</b>	0142 3.03	<b>22</b>	0043 2.76
	1021 3.10		1124 2.81		1202 2.99		0636 1.17		0657 0.79		1223 2.76		0820 0.93		0709 1.22
TH	1628 0.80	FR	1720 1.07	SU	1752 0.92	MO	1224 2.69	TU	1250 3.14	WE	1824 1.40	FR	1439 3.16	SA	1337 2.75
	2251 3.53		2355 3.42		1817 1.34		1817 1.34		1840 0.97			●	2051 1.35		2004 1.62
<b>8</b>	0536 1.14	<b>23</b>	0631 1.23	<b>8</b>	0626 3.49	<b>23</b>	0650 3.13	<b>8</b>	0104 3.39	<b>23</b>	0044 2.98	<b>8</b>	0255 2.83	<b>23</b>	0156 2.62
	1108 2.97		1216 2.67		0721 1.00		0723 1.23		0751 0.85		0712 1.19		0928 0.97		0821 1.26
FR	1708 0.93	SA	1805 1.29	MO	1306 2.96	TU	1323 2.63	WE	1353 3.12	TH	1323 2.70	SA	1553 3.18	SU	1459 2.79
	2339 3.43				1852 1.08		1918 1.52		1946 1.16		1929 1.57		2220 1.36	●	2136 1.59
<b>9</b>	0631 1.22	<b>24</b>	0647 3.24	<b>9</b>	0127 3.39	<b>24</b>	0146 3.00	<b>9</b>	0207 3.21	<b>24</b>	0143 2.82	<b>9</b>	0414 2.77	<b>24</b>	0315 2.61
	1205 2.85		0723 1.32		0819 0.99		0817 1.25		0850 0.88		0811 1.23		1035 0.94		0934 1.19
SA	1759 1.08	SU	1320 2.58	TU	1414 2.99	WE	1434 2.64	TH	1500 3.14	FR	1437 2.70	SU	1705 3.31	MO	1616 2.95
			1906 1.48		2006 1.19	●	2040 1.61	○	2105 1.27	●	2058 1.64		2335 1.23		2251 1.42
<b>10</b>	0038 3.34	<b>25</b>	0146 3.11	<b>10</b>	0233 3.31	<b>25</b>	0247 2.91	<b>10</b>	0314 3.07	<b>25</b>	0250 2.73	<b>10</b>	0526 2.82	<b>25</b>	0426 2.71
	0735 1.25		0821 1.35		0921 0.93		0914 1.22		0953 0.86		0915 1.20		1135 0.84		1037 1.02
SU	1317 2.80	MO	1433 2.57	WE	1524 3.10	TH	1545 2.73	FR	1612 3.24	SA	1552 2.81	MO	1803 3.47	TU	1721 3.20
	1906 1.21		2029 1.58	●	2124 1.21		2158 1.58		2228 1.27		2218 1.57		2353 1.18		2353 1.18
<b>11</b>	0147 3.29	<b>26</b>	0248 3.03	<b>11</b>	0340 3.27	<b>26</b>	0346 2.89	<b>11</b>	0425 3.00	<b>26</b>	0354 2.73	<b>11</b>	0033 1.07	<b>26</b>	0529 2.90
	0843 1.19		0919 1.32		1022 0.83		1009 1.14		1055 0.80		1014 1.09		0623 2.93		1136 0.81
MO	1433 2.85	TU	1544 2.66	TH	1633 3.27	FR	1647 2.89	SA	1720 3.40	SU	1658 2.99	TU	1227 0.75	WE	1814 3.47
●	2026 1.25	●	2146 1.57		2242 1.15		2301 1.48		2341 1.16		2322 1.41		1852 3.61		
<b>12</b>	0300 3.31	<b>27</b>	0348 3.03	<b>12</b>	0446 3.26	<b>27</b>	0440 2.91	<b>12</b>	0533 3.00	<b>27</b>	0454 2.81	<b>12</b>	0121 0.94	<b>27</b>	0046 0.92
	0952 1.06		1014 1.23		1120 0.71		1058 1.02		1151 0.71		1108 0.94		0710 3.03		0624 3.12
TU	1547 3.01	WE	1645 2.81	FR	1736 3.48	SA	1739 3.09	SU	1818 3.58	MO	1753 3.23	WE	1312 0.67	TH	1230 0.59
	2147 1.19		2248 1.47		2350 1.04		2354 1.33					1932 3.71		1902 3.73	
<b>13</b>	0410 3.38	<b>28</b>	0442 3.06	<b>13</b>	0547 3.26	<b>28</b>	0531 2.96	<b>13</b>	0631 3.03	<b>28</b>	0550 2.94	<b>13</b>	0201 0.85	<b>28</b>	0135 0.68
	1054 0.88		1103 1.11		1212 0.60		1145 0.88		1242 0.64		1200 0.77		0750 3.10		0716 3.34
WE	1656 3.24	TH	1734 3.00	SA	1832 3.69	SU	1824 3.30	MO	1907 3.73	TU	1840 3.48	TH	1353 0.64	FR	1322 0.41
	2300 1.05		2340 1.35									2010 3.75		1947 3.94	
<b>14</b>	0514 3.47	<b>29</b>	0529 3.11	<b>14</b>	0049 0.93	<b>29</b>	0042 1.18	<b>14</b>	0134 0.93	<b>29</b>	0107 1.00	<b>14</b>	0237 0.80	<b>29</b>	0220 0.48
	1150 0.69		1146 0.97		0642 3.26		0617 3.04		0721 3.07		0642 3.08		0826 3.13		0804 3.53
TH	1755 3.51	FR	1817 3.19	SU	1300 0.53	MO	1228 0.74	TU	1328 0.59	WE	1250 0.59	FR	1430 0.63	SA	1412 0.27
					1921 3.84		1905 3.50		1951 3.81		1925 3.71		2044 3.74		2031 4.07
<b>15</b>	0004 0.90	<b>30</b>	0026 1.22	<b>15</b>	0142 0.85	<b>30</b>	0128 1.04	<b>15</b>	0220 0.86	<b>30</b>	0155 0.81	<b>15</b>	0309 0.78	<b>30</b>	0305 0.34
	0610 3.54		0612 3.16		0732 3.24		0703 3.12		0805 3.09		0732 3.23		0859 3.15		0851 3.67
FR	1239 0.54	SA	1225 0.85	MO	1345 0.50	TU	1313 0.61	WE	1409 0.58	TH	1339 0.44	SA	1505 0.65	SU	1500 0.22
	1848 3.74		1854 3.37		2006 3.92		1945 3.67		2030 3.84		2008 3.90	●	2116 3.70	○	2114 4.08
<b>15</b>		<b>31</b>	0109 1.11	<b>15</b>		<b>31</b>	0242 0.64	<b>15</b>		<b>31</b>	0242 0.64	<b>15</b>		<b>31</b>	0349 0.28
			0651 3.20				0820 3.36				0820 3.36				0938 3.72
			SU 1302 0.73				FR 1427 0.33				○ 2051 4.02				2157 3.97
			1930 3.52												

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre





# AUSTRALIA, EAST COAST – BUNDABERG (BURNETT HEADS)

LAT 24° 46' S LONG 152° 23' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0054 0.91	<b>16</b>	0050 0.68	<b>1</b>	0142 0.85	<b>16</b>	0222 0.67	<b>1</b>	0203 0.75	<b>16</b>	0251 0.66	<b>1</b>	0310 0.43	<b>16</b>	0329 0.61
	0647 2.77		0653 2.92		0725 2.60		0814 2.61		0744 2.53		0843 2.52		0900 2.75		0927 2.55
FR	1302 0.73	SA	1311 0.39	MO	1330 0.59	TU	1417 0.43	WE	1342 0.48	TH	1442 0.48	SA	1456 0.28	SU	1529 0.58
	1921 2.84		1927 3.26		1958 3.03		2041 3.28		2017 3.15		2102 3.17		2124 3.34		2140 2.96
<b>2</b>	0131 0.84	<b>17</b>	0143 0.61	<b>2</b>	0221 0.79	<b>17</b>	0306 0.67	<b>2</b>	0245 0.67	<b>17</b>	0327 0.66	<b>2</b>	0353 0.37	<b>17</b>	0357 0.64
	0722 2.78		0742 2.89		0805 2.60		0858 2.55		0829 2.58		0920 2.49		0946 2.80		0957 2.53
SA	1332 0.66	SU	1355 0.35	TU	1405 0.55	WE	1459 0.48	TH	1424 0.43	FR	1518 0.54	SU	1542 0.30	MO	1559 0.67
	1951 2.93		2013 3.34		2034 3.09		2121 3.23		2057 3.22		2137 3.10		2206 3.29		2208 2.86
<b>3</b>	0206 0.80	<b>18</b>	0232 0.59	<b>3</b>	0300 0.75	<b>18</b>	0347 0.70	<b>3</b>	0328 0.60	<b>18</b>	0400 0.69	<b>3</b>	0436 0.37	<b>18</b>	0425 0.67
	0756 2.77		0829 2.81		0844 2.58		0940 2.48		0914 2.61		0954 2.45		1033 2.80		1028 2.49
SU	1402 0.62	MO	1437 0.38	WE	1441 0.53	TH	1538 0.57	FR	1507 0.41	SA	1552 0.62	MO	1629 0.40	TU	1632 0.78
	2022 3.00		2057 3.36		2111 3.13		2200 3.14		2138 3.25		2209 3.00		2251 3.15		2238 2.73
<b>4</b>	0241 0.78	<b>19</b>	0318 0.62	<b>4</b>	0340 0.74	<b>19</b>	0426 0.76	<b>4</b>	0411 0.56	<b>19</b>	0432 0.74	<b>4</b>	0520 0.42	<b>19</b>	0456 0.73
	0829 2.73		0914 2.70		0926 2.56		1019 2.40		1000 2.62		1028 2.41		1122 2.76		1102 2.43
MO	1433 0.60	TU	1518 0.46	TH	1519 0.54	FR	1614 0.69	SA	1552 0.44	SU	1624 0.73	TU	1718 0.57	WE	1707 0.91
	2054 3.03		2140 3.29		2150 3.12		2238 3.01		2222 3.21		2241 2.88		2338 2.95		2311 2.57
<b>5</b>	0316 0.79	<b>20</b>	0403 0.70	<b>5</b>	0423 0.74	<b>20</b>	0503 0.84	<b>5</b>	0456 0.56	<b>20</b>	0503 0.79	<b>5</b>	0608 0.52	<b>20</b>	0529 0.80
	0903 2.67		0957 2.56		1009 2.52		1057 2.32		1048 2.61		1101 2.35		1216 2.69		1140 2.37
TU	1504 0.61	WE	1559 0.58	FR	1600 0.59	SA	1651 0.83	SU	1638 0.52	MO	1658 0.86	WE	1812 0.78	TH	1747 1.07
	2127 3.04		2223 3.17		2232 3.08		2315 2.87		2308 3.12		2314 2.75		2348 2.41		2348 2.41
<b>6</b>	0352 0.82	<b>21</b>	0447 0.80	<b>6</b>	0508 0.77	<b>21</b>	0541 0.91	<b>6</b>	0543 0.59	<b>21</b>	0537 0.84	<b>6</b>	06029 2.71	<b>21</b>	0607 0.89
	0939 2.60		1041 2.42		1057 2.47		1136 2.25		1139 2.58		1139 2.30		0701 0.63		1226 2.30
WE	1537 0.65	TH	1638 0.74	SA	1646 0.68	SU	1729 0.97	MO	1729 0.66	TU	1736 1.00	TH	1316 2.62	FR	1837 1.21
	2202 3.01		2305 3.01		2320 3.01		2354 2.73		2358 2.98		2351 2.60		1917 0.99		
<b>7</b>	0431 0.87	<b>22</b>	0531 0.92	<b>7</b>	0558 0.80	<b>22</b>	0621 0.96	<b>7</b>	0634 0.64	<b>22</b>	0615 0.90	<b>7</b>	0130 2.48	<b>22</b>	0036 2.24
	1018 2.51		1124 2.29		1151 2.42		1220 2.19		1235 2.55		1222 2.25		0802 0.73		0655 0.96
TH	1613 0.71	FR	1720 0.91	SU	1737 0.80	MO	1814 1.11	TU	1826 0.83	WE	1822 1.15	FR	1424 2.59	SA	1326 2.25
	2242 2.95		2348 2.85									2041 1.11		1947 1.31	
<b>8</b>	0515 0.94	<b>23</b>	0616 1.03	<b>8</b>	0614 2.91	<b>23</b>	0638 2.60	<b>8</b>	0652 2.81	<b>23</b>	0634 2.45	<b>8</b>	0242 2.31	<b>23</b>	0138 2.12
	1103 2.41		1212 2.19		0654 0.82		0705 1.01		0730 0.68		0659 0.95		0911 0.77		0756 1.01
FR	1655 0.81	SA	1805 1.07	MO	1251 2.40	TU	1313 2.16	WE	1338 2.54	TH	1316 2.21	SA	1543 2.63	SU	1443 2.28
	2328 2.87				1838 0.92		1911 1.24		1932 0.98		1922 1.28		2213 1.10		2122 1.30
<b>9</b>	0607 1.00	<b>24</b>	0636 2.70	<b>9</b>	0114 2.82	<b>24</b>	0129 2.48	<b>9</b>	0154 2.65	<b>24</b>	0127 2.31	<b>9</b>	0404 2.25	<b>24</b>	0258 2.07
	1156 2.33		0706 1.10		0757 0.82		0757 1.02		0832 0.71		0752 0.98		1021 0.74		0911 0.98
SA	1746 0.93	SU	1306 2.12	TU	1359 2.43	WE	1418 2.17	TH	1448 2.57	FR	1424 2.22	SU	1657 2.75	MO	1606 2.41
			1900 1.21		1950 1.02		2022 1.32		2054 1.07		2042 1.34		2332 0.98		2244 1.16
<b>10</b>	0024 2.79	<b>25</b>	0129 2.58	<b>10</b>	0220 2.74	<b>25</b>	0227 2.40	<b>10</b>	0302 2.52	<b>25</b>	0231 2.22	<b>10</b>	0520 2.29	<b>25</b>	0418 2.14
	0709 1.04		0802 1.12		0902 0.77		0855 1.00		0936 0.69		0855 0.98		1126 0.67		1022 0.87
SU	1302 2.28	MO	1415 2.12	WE	1512 2.53	TH	1533 2.25	FR	1601 2.67	SA	1541 2.30	MO	1758 2.89	TU	1713 2.62
	1849 1.03		2009 1.29		2112 1.04		2142 1.31		2218 1.06		2207 1.29		2345 0.96		2345 0.96
<b>11</b>	0133 2.74	<b>26</b>	0229 2.51	<b>11</b>	0328 2.70	<b>26</b>	0329 2.35	<b>11</b>	0414 2.45	<b>26</b>	0342 2.19	<b>11</b>	0029 0.85	<b>26</b>	0524 2.29
	0822 1.01		0904 1.09		1005 0.68		0954 0.94		1039 0.65		0958 0.91		0619 2.38		1123 0.71
MO	1419 2.31	TU	1533 2.20	TH	1622 2.69	FR	1640 2.39	SA	1710 2.82	SU	1650 2.46	TU	1222 0.59	WE	1807 2.85
	2008 1.09		2128 1.29		2230 0.98		2251 1.22		2334 0.96		2315 1.16		1847 3.01		
<b>12</b>	0248 2.74	<b>27</b>	0331 2.49	<b>12</b>	0435 2.68	<b>27</b>	0430 2.35	<b>12</b>	0524 2.44	<b>27</b>	0448 2.23	<b>12</b>	0116 0.73	<b>27</b>	0036 0.75
	0934 0.90		1003 1.02		1103 0.59		1047 0.86		1139 0.58		1056 0.81		0706 2.47		0619 2.47
TU	1536 2.45	WE	1640 2.34	FR	1725 2.88	SA	1732 2.56	SU	1810 2.98	MO	1745 2.66	WE	1309 0.52	TH	1217 0.53
	2132 1.04		2238 1.22		2339 0.89		2347 1.11					1929 3.09		1854 3.07	
<b>13</b>	0359 2.80	<b>28</b>	0430 2.51	<b>13</b>	0537 2.67	<b>28</b>	0524 2.39	<b>13</b>	0636 0.85	<b>28</b>	0610 1.00	<b>13</b>	0155 0.66	<b>28</b>	0123 0.55
	1037 0.75		1054 0.92		1158 0.51		1135 0.76		0625 2.47		0546 2.33		0747 2.53		0709 2.65
WE	1645 2.66	TH	1731 2.50	SA	1822 3.06	SU	1817 2.74	MO	1232 0.52	TU	1149 0.68	TH	1349 0.49	FR	1309 0.38
	2247 0.93		2334 1.12						1901 3.11		1833 2.87		2006 3.11		1939 3.24
<b>14</b>	0503 2.87	<b>29</b>	0520 2.54	<b>14</b>	0640 0.79	<b>29</b>	0636 0.98	<b>14</b>	0127 0.75	<b>29</b>	0059 0.83	<b>14</b>	0229 0.62	<b>29</b>	0206 0.38
	1134 0.60		1139 0.82		0635 2.66		0613 2.43		0717 2.50		0638 2.44		0824 2.56		0756 2.81
TH	1745 2.89	FR	1812 2.66	SU	1248 0.45	MO	1219 0.66	TU	1321 0.48	WE	1238 0.54	FR	1425 0.49	SA	1357 0.26
	2352 0.80				1912 3.20		1857 2.90		1945 3.18		1916 3.06		2040 3.10		2022 3.34
<b>15</b>	0600 2.92	<b>30</b>	0621 1.02	<b>15</b>	0133 0.71	<b>30</b>	0120 0.86	<b>15</b>	0211 0.68	<b>30</b>	0144 0.67	<b>15</b>	0300 0.60	<b>30</b>	0248 0.27
	1224 0.47		0605 2.57		0727 2.64		0659 2.48		0802 2.52		0727 2.55		0857 2.57		0842 2.94
FR	1838 3.10	SA	1217 0.73	MO	1335 0.42	TU	1302 0.57	WE	1403 0.46	TH	1325 0.42	FR	1458 0.52	SU	1444 0.20
			1849 2.81		1958 3.27		1937 3.04		2025 3.20		1959 3.21		2110 3.04		2105 3.35
<b>31</b>	0103 0.93		0646 2.59							<b>31</b>	0228 0.53			<b>31</b>	0329 0.21
			1254 0.65								0813 2.66				0928 3.00
		SU	1923 2.93								FR	1410 0.32			1531 0.23
											2041 3.31				2147 3.26

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – BUNDABERG (BURNETT HEADS)

LAT 24° 46' S LONG 152° 23' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0411 0.24	<b>16</b>	0349 0.59	<b>1</b>	0427 0.32	<b>16</b>	0345 0.60	<b>1</b>	0532 0.77	<b>16</b>	0431 0.73	<b>1</b>	0552 0.97	<b>16</b>	0507 0.76
	1015 3.00		0958 2.64		1043 3.08		1004 2.76		1205 2.84		1105 2.80		1224 2.76		1143 2.94
TU	1618 0.35	WE	1610 0.74	TH	1656 0.58	FR	1628 0.84	SU	1831 0.96	MO	1742 0.95	TU	1853 1.03	WE	1821 0.86
	2231 3.08		2207 2.66		2258 2.65		2215 2.46		2327 2.27		2327 2.27				
<b>2</b>	0454 0.33	<b>17</b>	0417 0.65	<b>2</b>	0511 0.50	<b>17</b>	0416 0.68	<b>2</b>	0026 2.14	<b>17</b>	0517 0.85	<b>2</b>	0050 2.14	<b>17</b>	0014 2.41
	1103 2.93		1030 2.59		1134 2.93		1039 2.69		0627 0.96		1157 2.73		0646 1.13		0601 0.90
WE	1707 0.55	TH	1644 0.86	FR	1749 0.80	SA	1706 0.95	MO	1302 2.68	TU	1838 1.00	WE	1316 2.63	TH	1238 2.85
	2317 2.82		2238 2.51		2348 2.39		2251 2.32		1937 1.07		1937 1.07		1947 1.08		1919 0.88
<b>3</b>	0539 0.48	<b>18</b>	0448 0.73	<b>3</b>	0600 0.71	<b>18</b>	0451 0.79	<b>3</b>	0135 2.05	<b>18</b>	0026 2.20	<b>3</b>	0156 2.11	<b>18</b>	0118 2.40
	1155 2.82		1105 2.52		1230 2.76		1120 2.60		0735 1.11		0615 0.97		0754 1.25		0707 1.03
TH	1800 0.78	FR	1722 1.00	SA	1850 0.99	SU	1753 1.05	TU	1407 2.57	WE	1259 2.67	TH	1413 2.54	FR	1342 2.77
			2314 2.35				2337 2.19	●	2051 1.08		1945 1.00	●	2048 1.08		2024 0.86
<b>4</b>	0007 2.54	<b>19</b>	0523 0.83	<b>4</b>	0049 2.16	<b>19</b>	0536 0.91	<b>4</b>	0301 2.07	<b>19</b>	0140 2.20	<b>4</b>	0315 2.17	<b>19</b>	0232 2.45
	0631 0.65		1148 2.43		0701 0.90		1214 2.52		0856 1.15		0729 1.05		0912 1.27		0827 1.09
FR	1253 2.69	SA	1809 1.13	SU	1335 2.62	MO	1852 1.13	WE	1514 2.54	TH	1411 2.66	FR	1514 2.50	SA	1450 2.71
	1904 1.00		2358 2.19		2010 1.10				2201 1.02	●	2059 0.92		2150 1.02	●	2131 0.80
<b>5</b>	0109 2.29	<b>20</b>	0608 0.94	<b>5</b>	0208 2.04	<b>20</b>	0038 2.09	<b>5</b>	0419 2.20	<b>20</b>	0301 2.31	<b>5</b>	0429 2.31	<b>20</b>	0347 2.59
	0732 0.80		1243 2.36		0817 1.01		0636 1.01		1011 1.10		0855 1.04		1023 1.22		0951 1.07
SA	1402 2.60	SU	1911 1.24	MO	1451 2.56	TU	1323 2.48	TH	1616 2.57	FR	1523 2.71	SA	1613 2.50	SU	1559 2.68
●	2029 1.13			●	2141 1.08		2010 1.13		2256 0.92		2206 0.77		2244 0.93		2235 0.69
<b>6</b>	0227 2.13	<b>21</b>	0059 2.06	<b>6</b>	0343 2.08	<b>21</b>	0201 2.06	<b>6</b>	0515 2.37	<b>21</b>	0414 2.51	<b>6</b>	0522 2.48	<b>21</b>	0456 2.80
	0847 0.88		0709 1.02		0940 1.00		0755 1.06		1110 1.00		1013 0.93		1121 1.13		1105 0.98
SU	1521 2.59	MO	1356 2.34	TU	1604 2.60	WE	1444 2.53	FR	1709 2.63	SA	1629 2.79	SU	1706 2.53	MO	1705 2.68
	2206 1.10	●	2041 1.24		2252 0.97	●	2136 1.01		2341 0.80		2306 0.61		2330 0.83		2333 0.58
<b>7</b>	0359 2.12	<b>22</b>	0224 2.02	<b>7</b>	0455 2.22	<b>22</b>	0328 2.18	<b>7</b>	0558 2.54	<b>22</b>	0517 2.77	<b>7</b>	0605 2.65	<b>22</b>	0556 3.02
	1005 0.86		0829 1.03		1049 0.91		0923 0.98		1158 0.90		1120 0.80		1209 1.03		1211 0.86
MO	1638 2.67	TU	1522 2.43	WE	1705 2.68	TH	1559 2.67	SA	1754 2.68	SU	1729 2.85	MO	1753 2.56	TU	1807 2.70
	2320 0.97		2211 1.11		2343 0.84		2242 0.81				2358 0.45				
<b>8</b>	0513 2.24	<b>23</b>	0354 2.12	<b>8</b>	0546 2.39	<b>23</b>	0440 2.41	<b>8</b>	0017 0.70	<b>23</b>	0612 3.01	<b>8</b>	0009 0.74	<b>23</b>	0026 0.48
	1113 0.77		0952 0.93		1143 0.81		1036 0.83		0636 2.69		1220 0.67		0641 2.80		0650 3.20
TU	1739 2.79	WE	1637 2.62	TH	1753 2.77	FR	1703 2.83	SU	1239 0.82	MO	1824 2.89	TU	1252 0.94	WE	1309 0.76
			2316 0.89				2338 0.60		1833 2.71				1836 2.58		1904 2.71
<b>9</b>	0013 0.82	<b>24</b>	0503 2.32	<b>9</b>	0023 0.72	<b>24</b>	0539 2.68	<b>9</b>	0050 0.62	<b>24</b>	0046 0.33	<b>9</b>	0046 0.65	<b>24</b>	0116 0.41
	0607 2.38		1100 0.75		0627 2.54		1138 0.65		0709 2.80		0702 3.21		0715 2.92		0738 3.33
WE	1207 0.67	TH	1736 2.85	FR	1228 0.71	SA	1758 2.98	MO	1317 0.77	TU	1315 0.58	WE	1331 0.87	TH	1401 0.69
	1826 2.90				1834 2.83				1909 2.72		1916 2.89		1915 2.60		1956 2.71
<b>10</b>	0054 0.71	<b>25</b>	0009 0.66	<b>10</b>	0057 0.63	<b>25</b>	0027 0.40	<b>10</b>	0120 0.56	<b>25</b>	0132 0.26	<b>10</b>	0120 0.59	<b>25</b>	0201 0.39
	0650 2.50		0600 2.56		0703 2.66		0630 2.93		0739 2.88		0749 3.34		0748 3.01		0823 3.39
TH	1252 0.59	FR	1158 0.56	SA	1307 0.65	SU	1234 0.50	TU	1352 0.73	WE	1408 0.53	TH	1409 0.82	FR	1448 0.66
	1906 2.97		1828 3.05		1910 2.87		1848 3.08		1942 2.71		2006 2.84		1953 2.60	○	2042 2.69
<b>11</b>	0130 0.62	<b>26</b>	0057 0.44	<b>11</b>	0128 0.57	<b>26</b>	0112 0.25	<b>11</b>	0149 0.52	<b>26</b>	0215 0.25	<b>11</b>	0154 0.55	<b>26</b>	0243 0.41
	0728 2.59		0650 2.79		0735 2.74		0718 3.13		0809 2.94		0835 3.39		0821 3.07		0906 3.37
FR	1330 0.54	SA	1252 0.39	SU	1342 0.62	MO	1327 0.39	WE	1427 0.72	TH	1457 0.53	FR	1446 0.79	SA	1532 0.67
	1941 3.00		1914 3.20		1942 2.87		1936 3.10		2015 2.67	○	2053 2.76	●	2030 2.59		2125 2.64
<b>12</b>	0201 0.57	<b>27</b>	0140 0.28	<b>12</b>	0155 0.53	<b>27</b>	0155 0.17	<b>12</b>	0218 0.51	<b>27</b>	0258 0.31	<b>12</b>	0227 0.52	<b>27</b>	0324 0.48
	0801 2.65		0737 2.99		0805 2.79		0804 3.27		0839 2.97		0921 3.36		0855 3.11		0947 3.29
SA	1405 0.52	SU	1342 0.28	MO	1415 0.61	TU	1417 0.35	TH	1502 0.73	FR	1545 0.59	SA	1525 0.77	SU	1613 0.73
	2013 3.00		1959 3.27		2012 2.84	○	2022 3.04	●	2048 2.61		2139 2.64		2108 2.58		2206 2.57
<b>13</b>	0229 0.55	<b>28</b>	0222 0.17	<b>13</b>	0221 0.50	<b>28</b>	0237 0.16	<b>13</b>	0248 0.52	<b>28</b>	0340 0.43	<b>13</b>	0302 0.53	<b>28</b>	0403 0.60
	0832 2.68		0823 3.13		0834 2.82		0850 3.33		0911 2.96		1006 3.26		0932 3.11		1027 3.17
SU	1436 0.54	MO	1430 0.23	TU	1446 0.63	WE	1507 0.39	FR	1538 0.77	SA	1631 0.69	SU	1604 0.78	MO	1653 0.81
●	2042 2.96	○	2043 3.24	●	2041 2.78		2108 2.92		2123 2.54		2224 2.50		2148 2.55		2245 2.48
<b>14</b>	0255 0.54	<b>29</b>	0303 0.14	<b>14</b>	0248 0.51	<b>29</b>	0319 0.22	<b>14</b>	0319 0.56	<b>29</b>	0423 0.59	<b>14</b>	0340 0.57	<b>29</b>	0441 0.75
	0900 2.68		0909 3.19		0902 2.83		0936 3.30		0945 2.93		1051 3.10		1011 3.08		1106 3.02
MO	1507 0.58	TU	1518 0.27	WE	1519 0.68	TH	1555 0.48	SA	1615 0.82	SU	1717 0.81	MO	1646 0.80	TU	1730 0.90
	2110 2.89		2127 3.11		2112 2.69		2154 2.74		2159 2.46		2310 2.35		2231 2.51		2324 2.38
<b>15</b>	0321 0.55	<b>30</b>	0344 0.19	<b>15</b>	0316 0.54	<b>30</b>	0402 0.36	<b>15</b>	0353 0.63	<b>30</b>	0506 0.78	<b>15</b>	0421 0.65	<b>30</b>	0518 0.92
	0928 2.67		0954 3.17		0932 2.81		1023 3.19		1022 2.88		1136 2.93		1054 3.02		1144 2.86
TU	1538 0.65	WE	1606 0.39	TH	1552 0.75	FR	1644 0.64	SU	1656 0.89	SU	1656 0.89	MO	1804 0.93	TU	1731 0.83
	2138 2.79		2211 2.91		2142 2.58		2240 2.52		2239 2.36		2357 2.23		2319 2.46		1808 0.98
				<b>31</b>	0445 0.55									<b>31</b>	0005 2.30
					1113 3.02										0600 1.09
					SA 1736 0.81										TH 1226 2.71
					2330 2.31										1849 1.05

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – GLADSTONE

LAT 23° 50' S LONG 151° 15' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0004 0.93 0631 3.99 TH 1249 1.17 1849 3.48	<b>16</b>	0555 3.64 1212 1.43 FR 1804 3.31
<b>2</b>	0059 0.84 0721 4.16 FR 1339 1.03 1940 3.52	<b>17</b>	0003 1.08 0647 3.95 SA 1305 1.17 1902 3.47
<b>3</b>	0145 0.77 0803 4.26 SA 1424 0.94 2024 3.54	<b>18</b>	0057 0.87 0733 4.22 SU 1355 0.92 1951 3.63
<b>4</b>	0226 0.75 0842 4.30 SU 1504 0.89 2105 3.55	<b>19</b>	0149 0.68 0817 4.44 MO 1443 0.70 2039 3.78
<b>5</b>	0302 0.76 0918 4.30 MO 1540 0.89 2141 3.53	<b>20</b>	0238 0.51 0901 4.60 TU 1528 0.52 ● 2124 3.90
<b>6</b>	0336 0.81 0952 4.25 TU 1613 0.93 2214 3.49	<b>21</b>	0325 0.40 0945 4.69 WE 1613 0.41 2209 3.99
<b>7</b>	0404 0.90 1024 4.16 WE 1644 0.98 2245 3.43	<b>22</b>	0411 0.39 1029 4.68 TH 1656 0.40 2254 4.01
<b>8</b>	0431 1.01 1055 4.05 TH 1713 1.06 2315 3.36	<b>23</b>	0456 0.48 1115 4.55 FR 1741 0.49 2341 3.97
<b>9</b>	0458 1.15 1127 3.91 FR 1743 1.15 2346 3.28	<b>24</b>	0541 0.69 1202 4.33 SA 1826 0.67
<b>10</b>	0528 1.32 1202 3.74 SA 1816 1.26	<b>25</b>	0032 3.86 0630 0.98 SU 1252 4.03 1913 0.89
<b>11</b>	0024 3.19 0605 1.53 SU 1243 3.55 1854 1.38	<b>26</b>	0128 3.73 0726 1.30 MO 1349 3.71 2009 1.11
<b>12</b>	0112 3.10 0657 1.75 MO 1331 3.36 1944 1.48	<b>27</b>	0233 3.61 0839 1.55 TU 1453 3.43 ● 2115 1.26
<b>13</b>	0217 3.05 0819 1.90 TU 1432 3.21 ● 2051 1.52	<b>28</b>	0349 3.59 1010 1.62 WE 1612 3.26 2231 1.30
<b>14</b>	0336 3.12 0958 1.87 WE 1543 3.14 2202 1.44	<b>29</b>	0509 3.70 1135 1.51 TH 1734 3.25 2346 1.23
<b>15</b>	0452 3.34 1111 1.68 TH 1656 3.18 2306 1.28	<b>30</b>	0616 3.89 1239 1.32 FR 1840 3.36
<b>31</b>	0047 1.10 0709 4.07 SA 1328 1.14 1932 3.48		

## FEBRUARY

Time	m	Time	m
<b>1</b>	0135 0.98 0751 4.19 SU 1410 1.02 2014 3.57	<b>16</b>	0038 1.01 0712 4.23 MO 1337 0.88 1935 3.72
<b>2</b>	0215 0.90 0828 4.25 MO 1446 0.95 2050 3.63	<b>17</b>	0135 0.74 0759 4.48 TU 1424 0.61 2022 3.94
<b>3</b>	0249 0.85 0901 4.26 TU 1519 0.92 2123 3.66	<b>18</b>	0226 0.51 0843 4.65 WE 1509 0.41 2107 4.13
<b>4</b>	0319 0.84 0931 4.24 WE 1548 0.91 ○ 2152 3.67	<b>19</b>	0313 0.35 0927 4.73 TH 1552 0.29 ● 2152 4.26
<b>5</b>	0347 0.87 1000 4.20 TH 1616 0.92 2220 3.66	<b>20</b>	0358 0.29 1011 4.70 FR 1635 0.28 2236 4.31
<b>6</b>	0413 0.92 1028 4.12 FR 1642 0.96 2247 3.63	<b>21</b>	0442 0.38 1056 4.54 SA 1716 0.40 2322 4.26
<b>7</b>	0442 1.03 1057 3.99 SA 1710 1.03 2316 3.57	<b>22</b>	0527 0.61 1141 4.26 SU 1758 0.64
<b>8</b>	0510 1.18 1128 3.82 SU 1738 1.15 2348 3.48	<b>23</b>	0009 4.12 0612 0.94 MO 1228 3.90 1842 0.94
<b>9</b>	0542 1.39 1202 3.60 MO 1808 1.29	<b>24</b>	0100 3.91 0704 1.30 TU 1322 3.53 1932 1.25
<b>10</b>	0026 3.37 0620 1.61 TU 1242 3.38 1846 1.43	<b>25</b>	0201 3.70 0814 1.60 WE 1427 3.22 2039 1.48
<b>11</b>	0117 3.26 0718 1.82 WE 1335 3.18 1942 1.56	<b>26</b>	0316 3.57 0947 1.71 TH 1551 3.07 ● 2203 1.56
<b>12</b>	0231 3.21 0856 1.91 TH 1451 3.05 ● 2103 1.59	<b>27</b>	0442 3.60 1118 1.59 FR 1721 3.13 2328 1.48
<b>13</b>	0359 3.32 1032 1.77 FR 1616 3.07 2223 1.47	<b>28</b>	0553 3.76 1222 1.38 SA 1827 3.31
<b>14</b>	0518 3.59 1144 1.50 SA 1736 3.24 2333 1.26		
<b>15</b>	0620 3.92 1244 1.19 SU 1841 3.48		

## MARCH

Time	m	Time	m
<b>1</b>	0031 1.30 0647 3.94 SU 1309 1.19 1916 3.50	<b>16</b>	0551 3.90 1220 1.11 MO 1821 3.54
<b>2</b>	0118 1.13 0730 4.07 MO 1347 1.05 1955 3.64	<b>17</b>	0020 1.08 0647 4.19 TU 1314 0.79 1914 3.84
<b>3</b>	0156 1.01 0806 4.14 TU 1420 0.97 2029 3.73	<b>18</b>	0120 0.79 0737 4.42 WE 1401 0.52 2002 4.10
<b>4</b>	0229 0.92 0838 4.17 WE 1451 0.91 2100 3.80	<b>19</b>	0211 0.54 0822 4.56 TH 1446 0.33 2047 4.32
<b>5</b>	0258 0.87 0907 4.17 TH 1518 0.87 2127 3.84	<b>20</b>	0258 0.36 0907 4.60 FR 1528 0.23 ● 2131 4.46
<b>6</b>	0326 0.85 0934 4.14 FR 1544 0.85 ○ 2153 3.87	<b>21</b>	0343 0.31 0950 4.52 SA 1609 0.26 2215 4.51
<b>7</b>	0355 0.88 1002 4.06 SA 1611 0.87 2221 3.86	<b>22</b>	0426 0.40 1034 4.33 SU 1649 0.41 2259 4.44
<b>8</b>	0424 0.95 1030 3.94 SU 1638 0.94 2249 3.82	<b>23</b>	0510 0.62 1119 4.04 MO 1730 0.69 2346 4.26
<b>9</b>	0454 1.09 1100 3.77 MO 1704 1.05 2320 3.73	<b>24</b>	0555 0.94 1207 3.68 TU 1811 1.02
<b>10</b>	0526 1.27 1131 3.56 TU 1732 1.20 2355 3.62	<b>25</b>	0034 4.01 0646 1.28 WE 1259 3.33 1857 1.36
<b>11</b>	0602 1.48 1207 3.35 WE 1802 1.36	<b>26</b>	0130 3.75 0751 1.57 TH 1403 3.06 2003 1.63
<b>12</b>	0039 3.49 0652 1.68 TH 1257 3.14 1850 1.53	<b>27</b>	0239 3.55 0917 1.69 FR 1526 2.94 ● 2132 1.74
<b>13</b>	0143 3.39 0816 1.80 FR 1413 3.01 2013 1.64	<b>28</b>	0402 3.50 1046 1.61 SA 1656 3.04 2258 1.65
<b>14</b>	0312 3.40 0955 1.71 SA 1547 3.03 ● 2147 1.58	<b>29</b>	0517 3.60 1152 1.41 SU 1802 3.27
<b>15</b>	0440 3.60 1116 1.44 SU 1714 3.24 2308 1.37	<b>30</b>	0005 1.47 0613 3.75 MO 1238 1.23 1850 3.49
<b>31</b>	0052 1.28 0657 3.88 TU 1315 1.08 1928 3.66		

## APRIL

Time	m	Time	m
<b>1</b>	0130 1.13 0735 3.96 WE 1347 0.97 2002 3.79	<b>16</b>	0102 0.85 0712 4.25 TH 1336 0.48 1941 4.21
<b>2</b>	0203 1.01 0808 4.00 TH 1416 0.89 2032 3.89	<b>17</b>	0154 0.62 0759 4.32 FR 1420 0.33 2026 4.41
<b>3</b>	0234 0.93 0838 4.01 FR 1444 0.82 2100 3.96	<b>18</b>	0241 0.47 0844 4.30 SA 1502 0.27 2109 4.54
<b>4</b>	0304 0.88 0907 3.98 SA 1512 0.79 ○ 2127 4.01	<b>19</b>	0326 0.42 0929 4.20 SU 1543 0.33 ● 2153 4.57
<b>5</b>	0335 0.87 0937 3.91 SU 1540 0.79 2156 4.03	<b>20</b>	0411 0.50 1013 4.02 MO 1623 0.49 2237 4.48
<b>6</b>	0406 0.92 1006 3.79 MO 1608 0.85 2226 4.00	<b>21</b>	0455 0.68 1059 3.76 TU 1703 0.76 2322 4.30
<b>7</b>	0439 1.02 1037 3.64 TU 1635 0.96 2258 3.93	<b>22</b>	0540 0.95 1146 3.47 WE 1741 1.08
<b>8</b>	0515 1.17 1110 3.46 WE 1704 1.11 2334 3.82	<b>23</b>	0009 4.05 0628 1.23 TH 1237 3.19 1822 1.40
<b>9</b>	0554 1.34 1149 3.28 TH 1736 1.27	<b>24</b>	0059 3.78 0723 1.47 FR 1335 2.97 1921 1.67
<b>10</b>	0019 3.69 0645 1.50 FR 1242 3.11 1824 1.46	<b>25</b>	0158 3.56 0834 1.60 SA 1448 2.88 2048 1.81
<b>11</b>	0118 3.58 0758 1.59 SA 1356 3.01 1945 1.60	<b>26</b>	0309 3.44 0950 1.58 SU 1613 2.95 ● 2212 1.77
<b>12</b>	0239 3.55 0926 1.52 SU 1526 3.07 ● 2121 1.57	<b>27</b>	0424 3.44 1100 1.45 MO 1724 3.16 2322 1.62
<b>13</b>	0405 3.66 1045 1.29 MO 1650 3.31 2245 1.38	<b>28</b>	0526 3.53 1151 1.28 TU 1814 3.39
<b>14</b>	0519 3.88 1152 0.99 TU 1758 3.63	<b>29</b>	0014 1.44 0615 3.64 WE 1231 1.13 1854 3.60
<b>15</b>	0000 1.12 0619 4.10 WE 1247 0.70 1852 3.94	<b>30</b>	0055 1.27 0656 3.72 TH 1306 0.99 1929 3.77

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols



New Moon



First Quarter



Full Moon



Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – GLADSTONE

LAT 23° 50' S LONG 151° 15' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0132 1.12	<b>16</b>	0137 0.75	<b>1</b>	0217 0.96	<b>16</b>	0300 0.70	<b>1</b>	0350 0.35	<b>16</b>	0406 0.72	
FR	0732 3.77	SA	0738 3.98	MO	0814 3.57	TU	0858 3.58	SA	0945 3.77	SU	1011 3.50	
	1337 0.88	SA	1356 0.42		1409 0.72		1502 0.58		1547 0.33		1607 0.78	
	2001 3.91		2007 4.39		2039 4.14		2119 4.38		2205 4.50		2218 3.98	
<b>2</b>	0206 1.01	<b>17</b>	0226 0.62	<b>2</b>	0256 0.87	<b>17</b>	0343 0.71	<b>2</b>	0432 0.29	<b>17</b>	0432 0.76	
	0807 3.78		0825 3.94		0853 3.56		0943 3.52		1030 3.84		1039 3.47	
SA	1408 0.80	SU	1439 0.39	TU	1446 0.67	WE	1543 0.67	TH	1600 0.77	SU	1632 0.35	
	2031 4.02		2051 4.49		2114 4.21	●	2159 4.31	○	2216 4.13	MO	1635 0.88	
<b>3</b>	0240 0.93	<b>18</b>	0312 0.58	<b>3</b>	0336 0.81	<b>18</b>	0423 0.77	<b>3</b>	0515 0.32	<b>18</b>	0458 0.84	
	0840 3.77		0911 3.85		0931 3.54		1025 3.43		1117 3.84		1108 3.41	
SU	1439 0.74	MO	1520 0.45	WE	1524 0.67	TH	1619 0.82	FR	1717 0.49	TU	1703 1.03	
	2102 4.10	●	2134 4.50	○	2152 4.24		2239 4.19		2334 4.26		2316 3.67	
<b>4</b>	0314 0.88	<b>19</b>	0356 0.62	<b>4</b>	0417 0.79	<b>19</b>	0502 0.88	<b>4</b>	0600 0.45	<b>19</b>	0526 0.95	
	0913 3.72		0957 3.72		1010 3.50		1105 3.32		1206 3.79		1141 3.33	
MO	1511 0.73	TU	1601 0.60	TH	1603 0.72	FR	1653 1.00	SA	1641 0.59	TU	1734 1.23	
○	2133 4.14		2218 4.42		2230 4.23		2317 4.02		2303 4.33		2348 3.45	
<b>5</b>	0350 0.88	<b>20</b>	0439 0.74	<b>5</b>	0500 0.82	<b>20</b>	0538 1.02	<b>5</b>	0534 0.58	<b>20</b>	0536 0.99	
	0947 3.63		1042 3.54		1052 3.45		1143 3.19		1132 3.59		1143 3.23	
TU	1543 0.77	WE	1639 0.82	FR	1644 0.82	SA	1723 1.19	SU	1727 0.72	MO	1727 1.19	
	2207 4.13		2301 4.25		2313 4.16		2353 3.84		2350 4.21		2351 3.69	
<b>6</b>	0428 0.93	<b>21</b>	0522 0.93	<b>6</b>	0546 0.88	<b>21</b>	0614 1.15	<b>6</b>	0621 0.66	<b>21</b>	0606 1.10	
	1021 3.53		1127 3.34		1139 3.38		1222 3.08		1222 3.54		1219 3.14	
WE	1615 0.86	TH	1716 1.08	SA	1728 0.97	SU	1755 1.39	MO	1816 0.90	TU	1800 1.38	
	2242 4.08		2343 4.04									
<b>7</b>	0507 1.03	<b>22</b>	0605 1.14	<b>7</b>	0000 4.06	<b>22</b>	0031 3.65	<b>7</b>	0040 4.02	<b>22</b>	0028 3.48	
	1058 3.40		1212 3.14		0636 0.96		0651 1.27		0711 0.77		0641 1.22	
TH	1649 0.99	FR	1751 1.34	SU	1233 3.31	MO	1305 2.99	TU	1319 3.50	WE	1302 3.06	
	2322 3.99				1821 1.13		1840 1.58		1912 1.12		1845 1.60	
<b>8</b>	0551 1.15	<b>23</b>	0028 3.80	<b>8</b>	0055 3.93	<b>23</b>	0116 3.47	<b>8</b>	0137 3.81	<b>23</b>	0113 3.27	
	1143 3.27		0650 1.32		0731 1.01		0737 1.36		0807 0.88		0725 1.33	
FR	1727 1.16	SA	1301 2.99	MO	1335 3.29	TU	1358 2.94	WE	1424 3.48	TH	1359 3.00	
			1833 1.57		1925 1.28		1946 1.75		2021 1.30		1954 1.77	
<b>9</b>	0009 3.88	<b>24</b>	0115 3.60	<b>9</b>	0158 3.81	<b>24</b>	0208 3.31	<b>9</b>	0241 3.60	<b>24</b>	0210 3.08	
	0643 1.26		0742 1.45		0834 1.02		0834 1.41		0911 0.94		0826 1.40	
SA	1237 3.16	SU	1358 2.89	TU	1446 3.34	WE	1504 2.96	TH	1535 3.53	FR	1509 3.02	
	1819 1.33		1942 1.76		2041 1.37	●	2116 1.81	○	2143 1.38	●	2133 1.80	
<b>10</b>	0106 3.77	<b>25</b>	0210 3.44	<b>10</b>	0307 3.72	<b>25</b>	0308 3.20	<b>10</b>	0352 3.44	<b>25</b>	0317 2.98	
	0747 1.31		0844 1.50		0942 0.97		0938 1.38		1018 0.94		0936 1.37	
SU	1347 3.11	MO	1507 2.90	WE	1559 3.49	TH	1618 3.08	FR	1649 3.67	SA	1626 3.17	
	1934 1.47		2109 1.81	●	2202 1.34		2232 1.72		2306 1.31		2251 1.66	
<b>11</b>	0217 3.70	<b>26</b>	0312 3.35	<b>11</b>	0417 3.67	<b>26</b>	0413 3.16	<b>11</b>	0507 3.36	<b>26</b>	0431 2.98	
	0900 1.26		0948 1.45		1048 0.87		1036 1.27		1125 0.88		1040 1.24	
MO	1507 3.19	TU	1625 3.02	TH	1709 3.71	FR	1723 3.30	SA	1757 3.86	SU	1733 3.42	
●	2100 1.48	●	2224 1.74		2320 1.22		2333 1.55				2353 1.42	
<b>12</b>	0335 3.73	<b>27</b>	0418 3.34	<b>12</b>	0525 3.65	<b>27</b>	0519 3.20	<b>12</b>	0018 1.14	<b>27</b>	0541 3.08	
	1013 1.10		1047 1.34		1150 0.74		1127 1.13		0617 3.37		1136 1.07	
TU	1625 3.41	WE	1727 3.23	FR	1811 3.95	SA	1813 3.55	SU	1227 0.80	MO	1826 3.70	
	2223 1.35		2325 1.59						1854 4.05			
<b>13</b>	0447 3.82	<b>28</b>	0520 3.38	<b>13</b>	0028 1.05	<b>28</b>	0024 1.35	<b>13</b>	0116 0.97	<b>28</b>	0046 1.17	
	1120 0.89		1135 1.19		0627 3.65		0616 3.27		0716 3.41		0640 3.23	
WE	1733 3.70	TH	1813 3.46	SA	1245 0.64	SU	1214 0.98	MO	1321 0.72	TU	1231 0.88	
	2339 1.15				1905 4.15		1857 3.79		1943 4.18		1913 3.96	
<b>14</b>	0551 3.91	<b>29</b>	0014 1.41	<b>14</b>	0124 0.89	<b>29</b>	0111 1.15	<b>14</b>	0205 0.83	<b>29</b>	0135 0.92	
	1219 0.68		0610 3.45		0723 3.64		0706 3.36		0805 3.44		0730 3.39	
TH	1831 3.98	FR	1217 1.05	SU	1335 0.57	MO	1259 0.83	TU	1408 0.67	WE	1323 0.70	
			1852 3.68		1953 4.30		1937 3.99		2026 4.25		1958 4.18	
<b>15</b>	0043 0.93	<b>30</b>	0057 1.24	<b>15</b>	0214 0.77	<b>30</b>	0156 0.97	<b>15</b>	0248 0.75	<b>30</b>	0222 0.69	
	0647 3.97		0654 3.51		0813 3.62		0751 3.43		0848 3.46		0817 3.53	
FR	1309 0.52	SA	1255 0.91	MO	1420 0.55	TU	1343 0.71	WE	1449 0.66	TH	1414 0.53	
	1921 4.22		1928 3.87		2036 4.37		2017 4.16		2105 4.26		2040 4.36	
		<b>31</b>	0137 1.09							<b>31</b>	0306 0.49	
			0735 3.55								0901 3.67	
			SU	1332 0.80							FR	1501 0.40
			2003 4.02								○	2123 4.47

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – GLADSTONE

LAT 23° 50' S LONG 151° 15' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0452 0.17	<b>16</b>	0423 0.73	<b>1</b>	0509 0.37	<b>16</b>	0419 0.79	<b>1</b>	0045 3.04	<b>16</b>	0000 3.32
	1057 4.09		1038 3.61		1124 4.17		1044 3.73		0630 1.41		0548 1.08
TU	1704 0.37	WE	1643 0.94	TH	1736 0.65	FR	1700 1.05	TU	1305 3.69	WE	1224 3.95
	2315 4.17		2247 3.58		2343 3.63		2254 3.30		1929 1.32		1858 1.05
<b>2</b>	0535 0.35	<b>17</b>	0449 0.85	<b>2</b>	0552 0.70	<b>17</b>	0446 0.94	<b>2</b>	0142 2.92	<b>17</b>	0056 3.27
	1146 4.00		1109 3.52		1215 3.96		1120 3.62		0731 1.63		0644 1.25
WE	1751 0.65	TH	1714 1.12	FR	1827 0.99	SA	1737 1.22	WE	1358 3.50	TH	1321 3.82
			2316 3.37				2329 3.11		2027 1.41		1956 1.10
<b>3</b>	0002 3.84	<b>18</b>	0515 1.01	<b>3</b>	0037 3.27	<b>18</b>	0516 1.12	<b>3</b>	0250 2.88	<b>18</b>	0203 3.26
	0619 0.63		1144 3.40		0640 1.04		1201 3.50		0851 1.73		0756 1.40
TH	1238 3.84	FR	1749 1.33	SA	1313 3.72	SU	1824 1.39	TH	1458 3.38	FR	1427 3.72
	1841 0.99		2350 3.14		1930 1.28			●	2131 1.41		2102 1.09
<b>4</b>	0056 3.47	<b>19</b>	0545 1.18	<b>4</b>	0141 2.97	<b>19</b>	0015 2.93	<b>4</b>	0408 2.98	<b>19</b>	0320 3.36
	0710 0.93		1226 3.27		0746 1.33		0557 1.31		1008 1.70		0919 1.43
FR	1337 3.65	SA	1835 1.54	SU	1421 3.53	MO	1257 3.39	FR	1603 3.33	SA	1537 3.65
	1946 1.30				2051 1.44		1928 1.50		2232 1.33	●	2211 1.00
<b>5</b>	0200 3.14	<b>20</b>	0035 2.92	<b>5</b>	0301 2.82	<b>20</b>	0123 2.80	<b>5</b>	0505 3.06	<b>20</b>	0350 3.19
	0814 1.17		0628 1.36		0911 1.45		0709 1.47		1103 1.45		0946 1.37
SA	1448 3.52	SU	1326 3.17	MO	1538 3.46	TU	1410 3.35	TH	1708 3.49	FR	1611 3.69
●	2113 1.46		1948 1.68	●	2219 1.39		2053 1.47		2339 1.14		2247 0.93
<b>6</b>	0320 2.94	<b>21</b>	0145 2.76	<b>6</b>	0430 2.90	<b>21</b>	0253 2.82	<b>6</b>	0558 3.31	<b>21</b>	0502 3.49
	0934 1.28		0744 1.49		1033 1.39		0847 1.48		1158 1.29		1103 1.18
SU	1609 3.52	MO	1447 3.18	TU	1653 3.54	WE	1533 3.45	FR	1759 3.58	SA	1717 3.80
	2247 1.39	●	2127 1.63		2332 1.20	●	2215 1.26				2348 0.69
<b>7</b>	0451 2.96	<b>22</b>	0319 2.76	<b>7</b>	0541 3.12	<b>22</b>	0420 3.04	<b>7</b>	0021 0.98	<b>22</b>	0602 3.81
	1056 1.22		0919 1.45		1141 1.23		1013 1.31		0640 3.53		1210 0.95
MO	1725 3.65	TU	1612 3.35	WE	1753 3.67	TH	1647 3.66	SA	1241 1.13	SU	1817 3.89
	2359 1.17		2251 1.38				2323 0.96		1843 3.65		
<b>8</b>	0602 3.14	<b>23</b>	0447 2.95	<b>8</b>	0021 1.00	<b>23</b>	0529 3.37	<b>8</b>	0056 0.85	<b>23</b>	0043 0.48
	1205 1.07		1038 1.25		0631 3.36		1126 1.05		0717 3.70		0654 4.11
TU	1824 3.83	WE	1723 3.63	TH	1233 1.05	FR	1750 3.89	SU	1319 1.01	MO	1309 0.74
			2355 1.04		1840 3.79				1921 3.69		1911 3.93
<b>9</b>	0050 0.95	<b>24</b>	0554 3.26	<b>9</b>	0102 0.84	<b>24</b>	0020 0.65	<b>9</b>	0127 0.75	<b>24</b>	0131 0.34
	0655 3.34		1148 0.98		0712 3.54		0626 3.71		0749 3.84		0742 4.33
WE	1257 0.90	TH	1821 3.94	FR	1313 0.91	SA	1230 0.78	MO	1354 0.91	TU	1401 0.58
	1911 3.96				1919 3.86		1844 4.08		1956 3.70		2001 3.93
<b>10</b>	0131 0.80	<b>25</b>	0049 0.70	<b>10</b>	0135 0.74	<b>25</b>	0110 0.38	<b>10</b>	0156 0.67	<b>25</b>	0216 0.26
	0737 3.49		0648 3.57		0747 3.67		0714 4.01		0820 3.93		0828 4.48
TH	1339 0.79	FR	1250 0.70	SA	1349 0.82	SU	1325 0.55	TU	1427 0.85	WE	1449 0.49
	1950 4.03		1911 4.18		1954 3.89		1933 4.18		2028 3.68		2049 3.87
<b>11</b>	0207 0.71	<b>26</b>	0137 0.41	<b>11</b>	0205 0.67	<b>26</b>	0156 0.19	<b>11</b>	0225 0.62	<b>26</b>	0300 0.28
	0813 3.58		0736 3.84		0818 3.75		0800 4.24		0849 4.00		0912 4.53
FR	1415 0.72	SA	1343 0.45	SU	1421 0.77	MO	1415 0.37	WE	1502 0.82	TH	1536 0.49
	2024 4.04		1957 4.35		2025 3.88		2020 4.20		2100 3.63	○	2136 3.77
<b>12</b>	0238 0.66	<b>27</b>	0222 0.19	<b>12</b>	0232 0.62	<b>27</b>	0239 0.09	<b>12</b>	0255 0.61	<b>27</b>	0342 0.38
	0846 3.63		0821 4.07		0847 3.81		0845 4.41		0920 4.03		0958 4.49
SA	1446 0.69	SU	1432 0.26	MO	1451 0.74	TU	1502 0.29	TH	1536 0.83	FR	1622 0.58
	2054 4.03		2041 4.42		2055 3.84	○	2105 4.14	●	2133 3.55		2222 3.62
<b>13</b>	0306 0.64	<b>28</b>	0304 0.05	<b>13</b>	0258 0.60	<b>28</b>	0321 0.10	<b>13</b>	0326 0.65	<b>28</b>	0424 0.58
	0914 3.66		0905 4.24		0914 3.85		0929 4.47		0952 4.02		1044 4.36
SU	1516 0.69	MO	1518 0.17	TU	1522 0.75	WE	1549 0.32	FR	1612 0.88	SA	1707 0.74
●	2122 3.98	○	2125 4.38	●	2124 3.76		2150 3.99		2206 3.44		2309 3.43
<b>14</b>	0333 0.64	<b>29</b>	0346 0.03	<b>14</b>	0325 0.61	<b>29</b>	0403 0.23	<b>14</b>	0357 0.74	<b>29</b>	0504 0.84
	0942 3.67		0950 4.32		0943 3.85		1016 4.43		1026 3.96		1129 4.15
MO	1544 0.73	TU	1604 0.20	WE	1553 0.80	TH	1635 0.46	SA	1649 0.97	SU	1752 0.94
	2150 3.89		2209 4.23		2153 3.64		2237 3.75		2240 3.31		2356 3.23
<b>15</b>	0358 0.66	<b>30</b>	0427 0.14	<b>15</b>	0352 0.67	<b>30</b>	0444 0.47	<b>15</b>	0428 0.88	<b>30</b>	0545 1.13
	1009 3.66		1036 4.30		1013 3.82		1103 4.28		1103 3.87		1217 3.91
TU	1613 0.81	WE	1649 0.37	TH	1625 0.90	FR	1722 0.69	SU	1730 1.09	MO	1838 1.15
	2218 3.76		2255 3.97		2223 3.48		2326 3.47		2319 3.18		
				<b>31</b>	0527 0.79						
					1153 4.06						
				SA	1812 0.97						
										<b>31</b>	0050 3.13
											0628 1.53
											1303 3.60
											1920 1.37

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – PORT ALMA

LAT 23° 35' S LONG 150° 52' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0030 1.06 0640 4.94 TH 1308 1.38 1853 4.36	<b>16</b>	0604 4.49 1224 1.70 FR 1811 4.19	<b>1</b>	0154 1.08 0758 5.17 SU 1427 1.24 2010 4.44	<b>16</b>	0102 1.12 0714 5.23 MO 1344 1.04 1929 4.70	<b>1</b>	0052 1.44 0654 4.88 SU 1326 1.38 1914 4.36	<b>16</b>	0557 4.84 1230 1.29 MO 1821 4.47	<b>1</b>	0145 1.27 0739 4.93 WE 1402 1.17 1959 4.72	<b>16</b>	0118 0.95 0713 5.28 TH 1348 0.56 1939 5.22
<b>2</b>	0121 0.95 0730 5.13 FR 1358 1.24 1941 4.40	<b>17</b>	0031 1.26 0650 4.87 SA 1314 1.39 1900 4.41	<b>2</b>	0231 1.00 0835 5.24 MO 1501 1.19 2044 4.51	<b>17</b>	0154 0.80 0800 5.53 TU 1433 0.74 2015 4.95	<b>2</b>	0135 1.25 0735 5.04 MO 1403 1.25 1951 4.53	<b>17</b>	0043 1.21 0650 5.20 TU 1323 0.91 1911 4.83	<b>2</b>	0217 1.16 0810 4.97 TH 1429 1.08 2029 4.83	<b>17</b>	0208 0.71 0758 5.35 FR 1432 0.41 2023 5.44
<b>3</b>	0206 0.89 0813 5.25 SA 1441 1.17 2021 4.42	<b>18</b>	0121 0.99 0735 5.20 SU 1403 1.11 1947 4.60	<b>3</b>	0303 0.97 0907 5.26 TU 1531 1.17 2116 4.56	<b>18</b>	0241 0.54 0844 5.74 WE 1518 0.51 2059 5.15	<b>3</b>	0212 1.12 0810 5.13 TU 1435 1.18 2024 4.64	<b>18</b>	0137 0.86 0738 5.48 WE 1412 0.61 1957 5.12	<b>3</b>	0246 1.10 0838 4.97 FR 1455 1.01 2056 4.91	<b>18</b>	0253 0.58 0841 5.33 SA 1514 0.36 2106 5.58
<b>4</b>	0243 0.87 0851 5.30 SU 1519 1.15 2058 4.43	<b>19</b>	0208 0.75 0818 5.47 MO 1450 0.87 2031 4.77	<b>4</b>	0332 0.98 0936 5.23 WE 1556 1.15 2145 4.57	<b>19</b>	0325 0.39 0926 5.82 TH 1602 0.39 2143 5.28	<b>4</b>	0243 1.05 0841 5.16 WE 1502 1.13 2054 4.72	<b>19</b>	0224 0.59 0822 5.64 TH 1456 0.41 2041 5.36	<b>4</b>	0313 1.07 0905 4.94 SA 1520 0.96 2122 4.96	<b>19</b>	0336 0.57 0923 5.21 SU 1552 0.43 2150 5.60
<b>5</b>	0317 0.90 0925 5.29 MO 1552 1.16 2133 4.41	<b>20</b>	0253 0.57 0902 5.66 TU 1536 0.68 2114 4.90	<b>5</b>	0358 1.01 1002 5.18 TH 1621 1.15 2212 4.57	<b>20</b>	0408 0.36 1009 5.77 FR 1643 0.40 2229 5.31	<b>5</b>	0311 1.01 0908 5.16 TH 1526 1.08 2121 4.77	<b>20</b>	0309 0.43 0904 5.67 FR 1538 0.31 2124 5.50	<b>5</b>	0340 1.07 0931 4.86 SU 1546 0.96 2150 4.98	<b>20</b>	0418 0.68 1006 4.98 MO 1632 0.62 2236 5.49
<b>6</b>	0348 0.96 0957 5.23 TU 1621 1.20 2206 4.37	<b>21</b>	0337 0.47 0945 5.75 WE 1621 0.58 2159 4.97	<b>6</b>	0423 1.09 1028 5.08 FR 1645 1.18 2240 4.53	<b>21</b>	0450 0.49 1054 5.57 SA 1724 0.54 2317 5.23	<b>6</b>	0336 1.01 0933 5.12 FR 1550 1.04 2147 4.81	<b>21</b>	0352 0.40 0946 5.58 SA 1618 0.35 2209 5.54	<b>6</b>	0408 1.13 0959 4.73 MO 1614 1.02 2216 4.94	<b>21</b>	0501 0.91 1052 4.67 TU 1711 0.93 2324 5.25
<b>7</b>	0417 1.06 1028 5.13 WE 1649 1.26 2237 4.30	<b>22</b>	0421 0.47 1029 5.73 TH 1705 0.57 2247 4.97	<b>7</b>	0449 1.21 1056 4.93 SA 1712 1.25 2310 4.44	<b>22</b>	0534 0.78 1140 5.24 SU 1809 0.81	<b>7</b>	0401 1.05 0959 5.03 SA 1615 1.05 2214 4.79	<b>22</b>	0434 0.53 1029 5.34 SU 1658 0.53 2256 5.44	<b>7</b>	0437 1.24 1028 4.56 TU 1643 1.15 2246 4.85	<b>22</b>	0547 1.23 1140 4.30 WE 1753 1.32
<b>8</b>	0444 1.20 1058 4.99 TH 1716 1.33 2308 4.21	<b>23</b>	0504 0.61 1115 5.58 FR 1750 0.67 2337 4.89	<b>8</b>	0517 1.41 1125 4.71 SU 1741 1.39 2341 4.30	<b>23</b>	0009 5.04 0624 1.19 MO 1231 4.81 1857 1.18	<b>8</b>	0428 1.14 1025 4.89 SU 1642 1.11 2241 4.73	<b>23</b>	0517 0.81 1115 4.98 MO 1739 0.85 2345 5.21	<b>8</b>	0510 1.41 1100 4.35 WE 1713 1.33 2321 4.72	<b>23</b>	0014 4.94 0639 1.58 TH 1233 3.95 1840 1.73
<b>9</b>	0511 1.38 1129 4.82 FR 1746 1.44 2341 4.09	<b>24</b>	0551 0.87 1205 5.32 SA 1838 0.87	<b>9</b>	0549 1.67 1157 4.45 MO 1814 1.58	<b>24</b>	0105 4.78 0723 1.64 TU 1328 4.35 1956 1.56	<b>9</b>	0456 1.30 1054 4.69 MO 1710 1.25 2310 4.62	<b>24</b>	0604 1.21 1204 4.55 TU 1823 1.26	<b>9</b>	0548 1.63 1140 4.12 TH 1749 1.57	<b>24</b>	0109 4.60 0746 1.87 FR 1337 3.66 1950 2.08
<b>10</b>	0542 1.61 1203 4.60 SA 1819 1.58	<b>25</b>	0032 4.75 0644 1.23 SU 1259 4.96 1932 1.13	<b>10</b>	0017 4.14 0627 1.96 TU 1236 4.16 1854 1.79	<b>25</b>	0211 4.51 0846 1.98 WE 1440 3.96 2115 1.83	<b>10</b>	0526 1.52 1123 4.44 TU 1739 1.44 2342 4.47	<b>25</b>	0038 4.89 0700 1.64 WE 1259 4.10 1917 1.70	<b>10</b>	0007 4.54 0643 1.86 FR 1236 3.88 1839 1.83	<b>25</b>	0213 4.33 0907 2.00 SA 1507 3.54 2126 2.23
<b>11</b>	0020 3.94 0618 1.88 SU 1244 4.34 1859 1.75	<b>26</b>	0133 4.58 0749 1.62 MO 1359 4.57 2034 1.38	<b>11</b>	0106 3.98 0724 2.25 WE 1333 3.89 1956 1.99	<b>26</b>	0332 4.36 1021 2.05 TH 1609 3.79 2244 1.87	<b>11</b>	0602 1.78 1159 4.17 WE 1814 1.67	<b>26</b>	0140 4.56 0819 1.97 TH 1410 3.75 2037 2.04	<b>11</b>	0119 4.36 0817 1.99 SA 1408 3.72 2017 2.03	<b>26</b>	0333 4.20 1027 1.92 SU 1633 3.70 2249 2.12
<b>12</b>	0109 3.78 0707 2.17 MO 1335 4.09 1956 1.90	<b>27</b>	0243 4.43 0911 1.89 TU 1508 4.23 2148 1.54	<b>12</b>	0237 3.89 0929 2.35 TH 1508 3.74 2143 2.01	<b>27</b>	0456 4.43 1141 1.86 FR 1730 3.91 2358 1.68	<b>12</b>	0026 4.29 0652 2.06 TH 1251 3.89 1904 1.93	<b>27</b>	0256 4.32 0952 2.06 FR 1547 3.63 2213 2.11	<b>12</b>	0257 4.35 0950 1.82 SU 1543 3.85 2159 1.92	<b>27</b>	0445 4.26 1128 1.73 MO 1732 3.98 2349 1.89
<b>13</b>	0224 3.70 0846 2.37 TU 1444 3.91 2125 1.94	<b>28</b>	0402 4.41 1039 1.93 WE 1628 4.05 2306 1.54	<b>13</b>	0417 4.06 1053 2.12 FR 1639 3.83 2302 1.78	<b>28</b>	0603 4.65 1240 1.60 SA 1829 4.15	<b>13</b>	0139 4.12 0839 2.24 FR 1426 3.69 2047 2.09	<b>28</b>	0423 4.30 1114 1.90 SA 1708 3.80 2331 1.92	<b>13</b>	0419 4.54 1102 1.50 MO 1658 4.17 2317 1.62	<b>28</b>	0540 4.40 1214 1.52 TU 1818 4.26
<b>14</b>	0358 3.81 1028 2.27 WE 1604 3.87 2241 1.78	<b>29</b>	0520 4.56 1157 1.76 TH 1743 4.07	<b>14</b>	0529 4.43 1156 1.76 SA 1746 4.10	<b>14</b>	0329 4.16 1020 2.05 SA 1609 3.78 2228 1.92	<b>14</b>	0329 4.16 1020 2.05 SA 1609 3.78 2228 1.92	<b>29</b>	0530 4.46 1212 1.65 SU 1806 4.09	<b>14</b>	0527 4.83 1205 1.14 TU 1759 4.56	<b>29</b>	0034 1.65 0624 4.54 WE 1250 1.34 1857 4.51
<b>15</b>	0510 4.11 1130 2.01 TH 1715 3.99 2339 1.54	<b>30</b>	0014 1.39 0626 4.81 FR 1257 1.53 1843 4.20	<b>15</b>	0006 1.46 0624 4.84 SU 1252 1.39 1840 4.41	<b>15</b>	0006 1.46 0624 4.84 SU 1252 1.39 1840 4.41	<b>15</b>	0453 4.45 1129 1.69 SU 1722 4.10 2341 1.59	<b>30</b>	0026 1.66 0621 4.66 MO 1256 1.43 1850 4.36	<b>15</b>	0023 1.27 0624 5.10 WE 1259 0.81 1852 4.92	<b>30</b>	0113 1.45 0702 4.65 TH 1323 1.19 1930 4.70
<b>31</b>	0109 1.22 0717 5.03 SA 1347 1.35 1931 4.34					<b>31</b>	0109 1.43 0703 4.83 TU 1331 1.28 1926 4.57								

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – PORT ALMA

LAT 23° 35' S LONG 150° 52' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0147 1.31	<b>16</b>	0153 0.89	<b>1</b>	0227 1.19	<b>16</b>	0314 0.93	<b>1</b>	0358 0.51	<b>16</b>	0413 0.95
FR	0735 4.70	SA	0738 4.95	MO	0810 4.49	TU	0853 4.46	SA	0938 4.74	SU	1005 4.40
	1354 1.07	SA	1410 0.53		1426 0.89		1517 0.74		1559 0.45		1618 0.98
	2001 4.85		2008 5.40		2038 5.08		2124 5.37		2204 5.54		2219 4.94
<b>2</b>	0219 1.20	<b>17</b>	0239 0.79	<b>2</b>	0302 1.10	<b>17</b>	0354 0.95	<b>2</b>	0441 0.45	<b>17</b>	0437 0.99
	0806 4.72		0822 4.90		0846 4.49		0935 4.39		1023 4.79		1034 4.36
SA	1422 0.98	SU	1453 0.51	TU	1501 0.84	WE	1555 0.83	TH	1642 0.50	SU	1643 1.11
	2030 4.96		2052 5.51		2112 5.16	●	2204 5.29	○	2248 5.45	MO	2246 4.78
<b>3</b>	0249 1.14	<b>18</b>	0323 0.77	<b>3</b>	0340 1.04	<b>18</b>	0432 1.03	<b>3</b>	0524 0.49	<b>18</b>	0502 1.06
	0836 4.70		0905 4.79		0922 4.46		1016 4.28		1111 4.77		1103 4.28
SU	1451 0.92	MO	1532 0.58	WE	1537 0.85	TH	1631 0.99	FR	1727 0.68	TU	1710 1.29
	2059 5.05	●	2136 5.51	○	2146 5.19		2244 5.15	SA	2335 5.24		2314 4.56
<b>4</b>	0320 1.10	<b>19</b>	0405 0.84	<b>4</b>	0418 1.04	<b>19</b>	0510 1.15	<b>4</b>	0610 0.63	<b>19</b>	0530 1.19
	0906 4.65		0949 4.63		1000 4.41		1057 4.15		1205 4.69		1135 4.15
MO	1521 0.90	TU	1611 0.74	TH	1613 0.91	FR	1706 1.21	SA	1817 0.97	WE	1741 1.53
○	2128 5.08		2219 5.41		2224 5.17		2322 4.95		2346 4.28		2346 4.28
<b>5</b>	0352 1.11	<b>20</b>	0447 0.99	<b>5</b>	0501 1.08	<b>20</b>	0545 1.31	<b>5</b>	0627 4.92	<b>20</b>	0601 1.38
	0938 4.56		1033 4.41		1042 4.33		1136 4.00		0702 0.85		1211 3.99
TU	1552 0.95	WE	1649 0.99	FR	1654 1.03	SA	1740 1.45	SU	1305 4.57	TH	1816 1.81
	2158 5.07		2304 5.21		2308 5.09		2359 4.72		1916 1.33		
<b>6</b>	0425 1.18	<b>21</b>	0529 1.21	<b>6</b>	0548 1.16	<b>21</b>	0621 1.48	<b>6</b>	0726 4.55	<b>21</b>	0638 1.61
	1011 4.44		1119 4.16		1132 4.23		1217 3.85		0801 1.10		0638 1.61
WE	1624 1.05	TH	1729 1.30	SA	1740 1.21	SU	1814 1.71	MO	1410 4.44	FR	1259 3.83
	2231 5.01		2348 4.94						2031 1.63		1905 2.10
<b>7</b>	0502 1.29	<b>22</b>	0614 1.46	<b>7</b>	0644 1.24	<b>22</b>	0702 1.63	<b>7</b>	0830 1.10	<b>22</b>	0730 1.82
	1048 4.28		1206 3.91		1232 4.14		1305 3.71		0830 1.10		0730 1.82
TH	1658 1.21	FR	1809 1.64	SU	1837 1.42	MO	1857 1.98	TU	1325 4.36	WE	1302 3.78
	2311 4.90								1933 1.42		1854 2.00
<b>8</b>	0546 1.44	<b>23</b>	0635 4.65	<b>8</b>	0749 1.28	<b>23</b>	0755 1.76	<b>8</b>	0938 1.15	<b>23</b>	0830 1.10
	1134 4.11		0705 1.69		0749 1.28		0830 1.10		0938 1.15		0830 1.10
FR	1739 1.43	SA	1259 3.70	MO	1343 4.11	TU	1408 3.62	WE	1433 4.34	TH	1406 3.67
			1858 1.96		1950 1.61		2015 2.20		2050 1.61		2009 2.25
<b>9</b>	0602 4.74	<b>24</b>	0705 1.69	<b>9</b>	0857 1.25	<b>24</b>	0908 1.81	<b>9</b>	1048 4.28	<b>24</b>	0938 1.15
	0645 1.59		0705 1.69		0857 1.25		0908 1.81		1048 4.28		0938 1.15
SA	1235 3.94	SU	1406 3.57	TU	1456 4.19	WE	1533 3.65	TH	1545 4.40	FR	1532 3.70
	1836 1.68		2017 2.19		2111 1.67	●	2154 2.23	○	2213 1.66	●	2209 2.23
<b>10</b>	0713 4.60	<b>25</b>	0808 1.85	<b>10</b>	0921 1.67	<b>25</b>	0933 3.90	<b>10</b>	1048 4.28	<b>25</b>	0938 1.15
	0805 1.64		0808 1.85		0921 1.67		0933 3.90		1048 4.28		0938 1.15
SU	1357 3.88	MO	1406 3.57	WE	1608 4.37	TH	1649 3.85	FR	1658 4.56	SA	1652 3.92
	2003 1.85		2146 2.23	●	2231 1.60		2302 2.08		2332 1.55		2316 2.01
<b>11</b>	0824 4.55	<b>26</b>	0919 1.89	<b>11</b>	1005 1.16	<b>25</b>	1015 1.74	<b>11</b>	1047 1.13	<b>25</b>	1017 1.76
	0924 1.52		0919 1.89		1005 1.16		1015 1.74		1047 1.13		1017 1.76
MO	1519 4.00	TU	1647 3.80	TH	1649 3.85	FR	1742 4.12	SA	1658 4.56	SA	1652 3.92
●	2134 1.80	●	2257 2.09	●	2231 1.60		2302 2.08		2332 1.55		2316 2.01
<b>12</b>	0924 1.52	<b>26</b>	1024 1.80	<b>11</b>	1110 1.02	<b>26</b>	1111 1.58	<b>11</b>	1047 1.13	<b>25</b>	1017 1.76
	1024 1.80		1024 1.80		1110 1.02		1111 1.58		1047 1.13		1017 1.76
MO	1519 4.00	TU	1647 3.80	TH	1649 3.85	FR	1742 4.12	SA	1658 4.56	SA	1652 3.92
●	2134 1.80	●	2257 2.09	●	2231 1.60		2302 2.08		2332 1.55		2316 2.01
<b>12</b>	0349 4.63	<b>27</b>	0448 4.12	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58	<b>11</b>	1047 1.13	<b>25</b>	1017 1.76
	1033 1.29		1118 1.63		1110 1.02		1111 1.58		1047 1.13		1017 1.76
TU	1633 4.28	WE	1739 4.07	TH	1716 4.62	FR	1742 4.12	SA	1658 4.56	SA	1652 3.92
	2253 1.60		2351 1.87		2344 1.43		2356 1.85		2332 1.55		2316 2.01
<b>13</b>	0457 4.76	<b>28</b>	0539 4.22	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58	<b>11</b>	1047 1.13	<b>25</b>	1017 1.76
	1137 1.03		1202 1.44		1110 1.02		1111 1.58		1047 1.13		1017 1.76
WE	1737 4.62	TH	1822 4.34	TH	1716 4.62	FR	1742 4.12	SA	1658 4.56	SA	1652 3.92
					2344 1.43		2356 1.85		2332 1.55		2316 2.01
<b>14</b>	0547 4.76	<b>28</b>	0539 4.22	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58	<b>11</b>	1047 1.13	<b>25</b>	1017 1.76
	1137 1.03		1202 1.44		1110 1.02		1111 1.58		1047 1.13		1017 1.76
WE	1737 4.62	TH	1822 4.34	TH	1716 4.62	FR	1742 4.12	SA	1658 4.56	SA	1652 3.92
					2344 1.43		2356 1.85		2332 1.55		2316 2.01
<b>14</b>	0002 1.33	<b>29</b>	0036 1.66	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0557 4.88		0622 4.32		1212 0.88		1212 0.88		1110 1.02		1111 1.58
TH	1235 0.79	FR	1241 1.26	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1833 4.95		1859 4.58		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA	1317 1.11	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1923 5.21		1932 4.78		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA	1317 1.11	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1923 5.21		1932 4.78		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA	1317 1.11	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1923 5.21		1932 4.78		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA	1317 1.11	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1923 5.21		1932 4.78		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA	1317 1.11	FR	1817 4.89	SA	1824 4.41	SU	1154 1.05	SA	1806 4.78
	1923 5.21		1932 4.78		2253 1.60		2351 1.87		1154 1.05		1806 4.78
<b>15</b>	0102 1.08	<b>30</b>	0115 1.47	<b>13</b>	1212 0.88	<b>27</b>	1212 0.88	<b>12</b>	1110 1.02	<b>26</b>	1111 1.58
	0650 4.95		0700 4.40		1212 0.88		1212 0.88		1110 1.02		1111 1.58
FR	1325 0.62	SA									



# AUSTRALIA, EAST COAST – ROSSLYN BAY

LAT 23° 10' S LONG 150° 48' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0009 0.85 0632 4.22 TH 1259 1.16 1843 3.64	<b>16</b>	0602 3.82 1220 1.46 FR 1755 3.45
<b>2</b>	0101 0.77 0718 4.40 FR 1350 1.04 1930 3.66	<b>17</b>	0011 1.04 0646 4.15 SA 1311 1.19 1847 3.62
<b>3</b>	0144 0.71 0758 4.51 SA 1434 0.96 2013 3.67	<b>18</b>	0059 0.80 0726 4.46 SU 1358 0.94 1933 3.80
<b>4</b>	0223 0.69 0836 4.56 SU 1512 0.93 2051 3.67	<b>19</b>	0145 0.58 0807 4.72 MO 1443 0.71 2020 3.95
<b>5</b>	0258 0.70 0911 4.56 MO 1546 0.94 2126 3.65	<b>20</b>	0231 0.41 0850 4.92 TU 1529 0.53 2107 4.08
<b>6</b>	0328 0.76 0945 4.50 TU 1617 0.97 2200 3.61	<b>21</b>	0317 0.32 0935 5.01 WE 1615 0.42 2155 4.15
<b>7</b>	0358 0.84 1018 4.41 WE 1647 1.02 2232 3.56	<b>22</b>	0403 0.33 1022 4.99 TH 1700 0.40 2244 4.16
<b>8</b>	0428 0.97 1050 4.28 TH 1716 1.10 2306 3.48	<b>23</b>	0450 0.46 1109 4.84 FR 1745 0.49 2334 4.11
<b>9</b>	0458 1.14 1123 4.12 FR 1748 1.20 2340 3.38	<b>24</b>	0539 0.70 1157 4.58 SA 1831 0.65
<b>10</b>	0532 1.35 1159 3.91 SA 1824 1.32	<b>25</b>	0026 4.00 0632 1.01 SU 1248 4.25 1920 0.87
<b>11</b>	0021 3.27 0614 1.60 SU 1240 3.69 1907 1.44	<b>26</b>	0124 3.86 0736 1.34 MO 1346 3.89 2018 1.08
<b>12</b>	0116 3.17 0717 1.84 MO 1333 3.48 2003 1.54	<b>27</b>	0233 3.75 0857 1.58 TU 1455 3.57 2128 1.24
<b>13</b>	0231 3.14 0845 1.97 TU 1439 3.32 2109 1.55	<b>28</b>	0357 3.75 1028 1.63 WE 1617 3.40 2244 1.26
<b>14</b>	0352 3.25 1010 1.92 WE 1549 3.26 2218 1.45	<b>29</b>	0517 3.90 1151 1.50 TH 1735 3.40 2354 1.16
<b>15</b>	0506 3.50 1121 1.72 TH 1656 3.32 2319 1.27	<b>30</b>	0618 4.12 1254 1.31 FR 1835 3.49
<b>31</b>	0050 1.03 0705 4.30 SA 1342 1.14 1922 3.59		

## FEBRUARY

Time	m	Time	m
<b>1</b>	0135 0.92 0744 4.42 SU 1421 1.04 2001 3.68	<b>16</b>	0040 0.92 0704 4.49 MO 1338 0.87 1917 3.90
<b>2</b>	0212 0.84 0820 4.49 MO 1455 0.99 2036 3.74	<b>17</b>	0131 0.63 0748 4.78 TU 1424 0.60 2004 4.13
<b>3</b>	0244 0.80 0852 4.51 TU 1524 0.96 2109 3.79	<b>18</b>	0219 0.41 0832 4.98 WE 1508 0.39 2051 4.33
<b>4</b>	0313 0.80 0924 4.50 WE 1551 0.94 2140 3.81	<b>19</b>	0306 0.27 0917 5.06 TH 1552 0.27 2138 4.45
<b>5</b>	0341 0.83 0954 4.44 TH 1617 0.96 2210 3.80	<b>20</b>	0352 0.26 1002 5.00 FR 1635 0.27 2226 4.49
<b>6</b>	0409 0.90 1023 4.34 FR 1642 1.00 2238 3.76	<b>21</b>	0438 0.38 1048 4.80 SA 1718 0.40 2314 4.43
<b>7</b>	0436 1.03 1050 4.18 SA 1708 1.08 2306 3.69	<b>22</b>	0525 0.64 1134 4.48 SU 1800 0.63
<b>8</b>	0504 1.21 1118 3.99 SU 1735 1.19 2338 3.59	<b>23</b>	0003 4.28 0615 0.99 MO 1221 4.08 1846 0.92
<b>9</b>	0537 1.43 1151 3.76 MO 1807 1.33	<b>24</b>	0057 4.06 0715 1.36 TU 1317 3.67 1941 1.24
<b>10</b>	0017 3.47 0621 1.68 TU 1233 3.52 1852 1.48	<b>25</b>	0201 3.85 0834 1.65 WE 1428 3.33 2055 1.48
<b>11</b>	0114 3.36 0735 1.91 WE 1334 3.29 1958 1.61	<b>26</b>	0322 3.72 1009 1.72 TH 1601 3.17 2220 1.54
<b>12</b>	0236 3.33 0912 1.97 TH 1455 3.16 2119 1.63	<b>27</b>	0451 3.79 1139 1.58 FR 1726 3.26 2338 1.43
<b>13</b>	0407 3.47 1040 1.82 FR 1619 3.19 2237 1.48	<b>28</b>	0556 3.97 1239 1.36 SA 1825 3.44
<b>14</b>	0524 3.77 1153 1.52 SA 1732 3.38 2344 1.22	<b>15</b>	0619 4.14 1250 1.19 SU 1828 3.64

## MARCH

Time	m	Time	m
<b>1</b>	0036 1.25 0645 4.15 SU 1323 1.18 1909 3.61	<b>16</b>	0550 4.14 1225 1.09 MO 1812 3.71
<b>2</b>	0120 1.09 0723 4.28 MO 1358 1.06 1944 3.75	<b>17</b>	0022 1.00 0640 4.47 TU 1314 0.75 1901 4.03
<b>3</b>	0156 0.97 0757 4.36 TU 1428 0.98 2017 3.86	<b>18</b>	0116 0.70 0726 4.72 WE 1359 0.48 1947 4.31
<b>4</b>	0227 0.90 0829 4.40 WE 1454 0.93 2048 3.94	<b>19</b>	0205 0.46 0810 4.87 TH 1443 0.29 2033 4.53
<b>5</b>	0255 0.85 0859 4.40 TH 1519 0.89 2118 4.00	<b>20</b>	0252 0.32 0855 4.90 FR 1526 0.20 2119 4.68
<b>6</b>	0323 0.85 0928 4.35 FR 1545 0.88 2147 4.02	<b>21</b>	0339 0.31 0940 4.79 SA 1608 0.23 2206 4.71
<b>7</b>	0351 0.89 0954 4.25 SA 1609 0.90 2213 4.00	<b>22</b>	0425 0.43 1025 4.55 SU 1648 0.40 2253 4.63
<b>8</b>	0418 0.99 1020 4.11 SU 1631 0.97 2239 3.95	<b>23</b>	0512 0.67 1110 4.21 MO 1729 0.67 2339 4.45
<b>9</b>	0444 1.14 1045 3.93 MO 1655 1.07 2306 3.87	<b>24</b>	0600 1.00 1157 3.82 TU 1811 1.01
<b>10</b>	0515 1.32 1113 3.72 TU 1724 1.21 2340 3.76	<b>25</b>	0030 4.19 0656 1.34 WE 1252 3.43 1904 1.36
<b>11</b>	0555 1.54 1152 3.49 WE 1802 1.39	<b>26</b>	0130 3.91 0809 1.62 TH 1403 3.13 2017 1.65
<b>12</b>	0030 3.63 0658 1.76 TH 1252 3.25 1902 1.58	<b>27</b>	0243 3.71 0940 1.71 FR 1538 3.03 2150 1.75
<b>13</b>	0144 3.52 0831 1.86 FR 1417 3.10 2032 1.69	<b>28</b>	0411 3.68 1108 1.59 SA 1708 3.17 2311 1.63
<b>14</b>	0318 3.56 1005 1.75 SA 1552 3.14 2204 1.60	<b>29</b>	0521 3.80 1209 1.39 SU 1805 3.40
<b>15</b>	0444 3.79 1124 1.45 SU 1712 3.38 2321 1.33	<b>30</b>	0011 4.13 0612 3.95 MO 1251 1.21 1847 3.62
<b>31</b>	0054 1.25 0652 4.08 TU 1324 1.07 1921 3.80		

## APRIL

Time	m	Time	m
<b>1</b>	0130 1.11 0727 4.17 WE 1352 0.97 1954 3.94	<b>16</b>	0059 0.78 0702 4.53 TH 1332 0.42 1930 4.42
<b>2</b>	0203 1.00 0759 4.21 TH 1419 0.89 2024 4.06	<b>17</b>	0150 0.58 0749 4.59 FR 1416 0.27 2015 4.64
<b>3</b>	0234 0.93 0831 4.21 FR 1445 0.83 2054 4.13	<b>18</b>	0239 0.46 0834 4.56 SA 1459 0.23 2101 4.77
<b>4</b>	0304 0.90 0900 4.16 SA 1511 0.80 2123 4.18	<b>19</b>	0326 0.45 0919 4.42 SU 1540 0.29 2146 4.79
<b>5</b>	0333 0.92 0927 4.07 SU 1535 0.82 2150 4.19	<b>20</b>	0413 0.54 1004 4.19 MO 1619 0.47 2232 4.70
<b>6</b>	0402 0.98 0954 3.94 MO 1559 0.87 2216 4.16	<b>21</b>	0459 0.74 1049 3.90 TU 1658 0.73 2317 4.51
<b>7</b>	0432 1.09 1021 3.79 TU 1625 0.96 2244 4.09	<b>22</b>	0546 1.00 1134 3.58 WE 1739 1.06
<b>8</b>	0505 1.23 1051 3.61 WE 1655 1.10 2321 3.99	<b>23</b>	0004 4.25 0636 1.28 TH 1226 3.28 1827 1.39
<b>9</b>	0548 1.39 1134 3.42 TH 1736 1.29	<b>24</b>	0057 3.96 0738 1.51 FR 1332 3.04 1933 1.69
<b>10</b>	0012 3.86 0649 1.56 FR 1236 3.22 1834 1.50	<b>25</b>	0201 3.72 0855 1.63 SA 1457 2.96 2103 1.84
<b>11</b>	0121 3.74 0810 1.63 SA 1359 3.10 2003 1.65	<b>26</b>	0315 3.60 1013 1.58 SU 1627 3.08 2226 1.78
<b>12</b>	0245 3.72 0936 1.53 SU 1532 3.18 2138 1.59	<b>27</b>	0428 3.62 1117 1.43 MO 1730 3.31 2329 1.61
<b>13</b>	0409 3.87 1054 1.27 MO 1652 3.45 2258 1.36	<b>28</b>	0526 3.72 1203 1.26 TU 1814 3.55
<b>14</b>	0518 4.12 1155 0.94 TU 1753 3.80	<b>29</b>	0018 1.42 0612 3.83 WE 1239 1.10 1852 3.77
<b>15</b>	0003 1.06 0614 4.36 WE 1247 0.65 1843 4.14	<b>30</b>	0058 1.26 0650 3.91 TH 1311 0.97 1925 3.95

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols



New Moon



First Quarter



Full Moon



Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – ROSSLYN BAY

LAT 23° 10' S LONG 150° 48' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0135 1.12	<b>16</b>	0137 0.73	<b>1</b>	0222 1.00	<b>16</b>	0308 0.73	<b>1</b>	0350 0.35	<b>16</b>	0406 0.74
	0725 3.95		0728 4.21		0802 3.71		0847 3.73		0930 3.96		0959 3.66
FR	1341 0.86	SA	1351 0.35	MO	1408 0.70	TU	1458 0.52	WE	1423 0.54	TH	1519 0.63
	1958 4.10		2000 4.64		2033 4.33		2112 4.64		2048 4.53	●	2132 4.47
<b>2</b>	0210 1.03	<b>17</b>	0228 0.64	<b>2</b>	0300 0.92	<b>17</b>	0351 0.74	<b>2</b>	0324 0.70	<b>17</b>	0408 0.78
	0759 3.95		0815 4.15		0838 3.70		0930 3.65		0900 3.71		0950 3.56
SA	1410 0.79	SU	1435 0.34	TU	1441 0.65	WE	1536 0.61	TH	1505 0.47	FR	1552 0.71
	2028 4.20		2044 4.74		2107 4.42	●	2152 4.57	○	2128 4.64		2206 4.38
<b>3</b>	0243 0.97	<b>18</b>	0316 0.61	<b>3</b>	0338 0.86	<b>18</b>	0430 0.80	<b>3</b>	0408 0.61	<b>18</b>	0438 0.83
	0831 3.92		0901 4.03		0916 3.68		1010 3.55		0945 3.75		1025 3.52
SU	1438 0.75	MO	1516 0.40	WE	1517 0.64	TH	1611 0.76	FR	1548 0.47	SA	1623 0.83
	2058 4.28	●	2128 4.75	○	2144 4.47		2231 4.44		2213 4.66		2240 4.25
<b>4</b>	0317 0.94	<b>19</b>	0402 0.66	<b>4</b>	0419 0.84	<b>19</b>	0506 0.91	<b>4</b>	0453 0.56	<b>19</b>	0508 0.90
	0902 3.86		0945 3.86		0957 3.64		1050 3.44		1034 3.76		1100 3.45
MO	1505 0.74	TU	1554 0.55	TH	1555 0.69	FR	1647 0.94	SA	1634 0.55	SU	1655 0.99
○	2127 4.32		2211 4.66		2225 4.46		2309 4.26		2259 4.60		2313 4.08
<b>5</b>	0350 0.95	<b>20</b>	0447 0.79	<b>5</b>	0503 0.85	<b>20</b>	0542 1.04	<b>5</b>	0539 0.58	<b>20</b>	0539 1.00
	0933 3.77		1029 3.66		1042 3.58		1130 3.32		1124 3.73		1136 3.36
TU	1534 0.77	WE	1632 0.77	FR	1637 0.79	SA	1723 1.15	SU	1722 0.70	MO	1729 1.19
	2159 4.32		2254 4.49		2310 4.40		2348 4.06		2347 4.47		2348 3.87
<b>6</b>	0425 1.00	<b>21</b>	0529 0.97	<b>6</b>	0550 0.90	<b>21</b>	0619 1.17	<b>6</b>	0626 0.64	<b>21</b>	0612 1.12
	1006 3.66		1113 3.45		1132 3.50		1214 3.20		1217 3.68		1217 3.26
WE	1606 0.85	TH	1711 1.03	SA	1726 0.95	SU	1805 1.38	MO	1816 0.91	TU	1808 1.43
	2233 4.27		2336 4.26								
<b>7</b>	0505 1.09	<b>22</b>	0612 1.17	<b>7</b>	0000 4.29	<b>22</b>	0032 3.84	<b>7</b>	0039 4.26	<b>22</b>	0026 3.63
	1045 3.53		1159 3.25		0641 0.96		0702 1.30		0717 0.74		0652 1.26
TH	1642 0.98	FR	1753 1.31	SU	1228 3.43	MO	1307 3.10	TU	1316 3.63	WE	1306 3.15
	2315 4.19				1824 1.14		1859 1.62		1918 1.14		1903 1.67
<b>8</b>	0551 1.19	<b>23</b>	0024 4.01	<b>8</b>	0056 4.16	<b>23</b>	0121 3.62	<b>8</b>	0136 4.02	<b>23</b>	0114 3.39
	1133 3.39		0700 1.35		0739 1.00		0754 1.40		0814 0.83		0742 1.38
FR	1726 1.16	SA	1254 3.08	MO	1333 3.41	TU	1411 3.04	WE	1422 3.61	TH	1413 3.09
			1847 1.58		1933 1.30		2011 1.79		2033 1.32		2021 1.84
<b>9</b>	0006 4.07	<b>24</b>	0116 3.77	<b>9</b>	0158 4.02	<b>24</b>	0220 3.44	<b>9</b>	0241 3.78	<b>24</b>	0217 3.18
	0648 1.29		0758 1.48		0841 0.99		0855 1.44		0918 0.89		0846 1.44
SA	1233 3.26	SU	1401 2.98	TU	1446 3.46	WE	1523 3.09	TH	1537 3.68	FR	1528 3.14
	1826 1.36		2001 1.78		2053 1.38	●	2133 1.83	○	2156 1.38	●	2148 1.84
<b>10</b>	0109 3.96	<b>25</b>	0217 3.59	<b>10</b>	0307 3.92	<b>25</b>	0322 3.33	<b>10</b>	0353 3.60	<b>25</b>	0328 3.07
	0756 1.32		0905 1.52		0949 0.93		0957 1.39		1026 0.89		0954 1.40
SU	1347 3.21	MO	1519 3.02	WE	1602 3.63	TH	1634 3.25	FR	1654 3.85	SA	1642 3.33
	1947 1.50		2125 1.84	●	2213 1.34		2244 1.74		2317 1.30		2303 1.68
<b>11</b>	0220 3.90	<b>26</b>	0323 3.50	<b>11</b>	0417 3.87	<b>26</b>	0425 3.30	<b>11</b>	0508 3.52	<b>26</b>	0438 3.10
	0909 1.25		1009 1.46		1053 0.81		1054 1.28		1132 0.82		1056 1.26
MO	1510 3.30	TU	1635 3.18	TH	1712 3.88	FR	1734 3.48	SA	1759 4.08	SU	1743 3.60
●	2115 1.50	●	2236 1.75		2327 1.20		2343 1.56				
<b>12</b>	0337 3.93	<b>27</b>	0426 3.50	<b>12</b>	0523 3.85	<b>27</b>	0522 3.34	<b>12</b>	0028 1.13	<b>27</b>	0004 1.44
	1021 1.07		1103 1.33		1152 0.68		1142 1.12		0613 3.53		0539 3.21
TU	1628 3.55	WE	1732 3.41	FR	1811 4.15	SA	1821 3.74	SU	1231 0.73	MO	1150 1.05
	2236 1.34		2334 1.59						1852 4.28		1829 3.90
<b>13</b>	0447 4.04	<b>28</b>	0521 3.56	<b>13</b>	0032 1.03	<b>28</b>	0034 1.36	<b>13</b>	0125 0.96	<b>28</b>	0055 1.18
	1124 0.83		1148 1.17		0622 3.85		0612 3.41		0706 3.56		0629 3.37
WE	1733 3.87	TH	1817 3.66	SA	1245 0.57	SU	1225 0.96	MO	1321 0.65	TU	1238 0.83
	2343 1.11				1902 4.38		1859 3.98		1937 4.43		1909 4.19
<b>14</b>	0547 4.15	<b>29</b>	0021 1.41	<b>14</b>	0129 0.88	<b>29</b>	0119 1.17	<b>14</b>	0215 0.84	<b>29</b>	0139 0.92
	1218 0.61		0607 3.62		0714 3.83		0656 3.49		0753 3.58		0713 3.54
TH	1826 4.18	FR	1227 1.02	SU	1333 0.50	MO	1304 0.80	TU	1406 0.60	WE	1323 0.62
			1854 3.88		1948 4.55		1935 4.19		2018 4.51		1947 4.44
<b>15</b>	0043 0.90	<b>30</b>	0104 1.25	<b>15</b>	0221 0.78	<b>30</b>	0201 1.00	<b>15</b>	0257 0.77	<b>30</b>	0222 0.69
	0640 4.21		0649 3.67		0802 3.79		0736 3.57		0834 3.59		0757 3.71
FR	1306 0.45	SA	1303 0.89	MO	1417 0.48	TU	1344 0.66	WE	1445 0.60	TH	1407 0.43
	1914 4.45		1929 4.06		2031 4.63		2010 4.38		2056 4.52		2027 4.65
		<b>31</b>	0144 1.11							<b>31</b>	0306 0.49
			0727 3.70								0843 3.85
			SU 1336 0.78								FR 1453 0.31
			2001 4.21								○ 2110 4.78

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – ROSSLYN BAY

LAT 23° 10' S LONG 150° 48' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0452 0.15	<b>16</b>	0417 0.76	<b>1</b>	0506 0.36	<b>16</b>	0408 0.81	<b>1</b>	0007 3.25	<b>16</b>	0459 1.05	<b>1</b>	0036 3.11	<b>16</b>	0546 1.10
	1049 4.28		1028 3.75		1118 4.36		1030 3.90		0611 1.13		1140 3.95		0633 1.42		1224 4.16
TU	1701 0.41	WE	1635 1.00	TH	1740 0.72	FR	1651 1.13	SU	1242 3.99	MO	1821 1.26	TU	1302 3.87	WE	1905 1.06
	2307 4.39		2230 3.72		2334 3.75		2233 3.42		1923 1.27				1944 1.35		
<b>2</b>	0536 0.33	<b>17</b>	0440 0.88	<b>2</b>	0551 0.69	<b>17</b>	0436 0.95	<b>2</b>	0113 2.99	<b>17</b>	0000 3.14	<b>2</b>	0142 2.99	<b>17</b>	0054 3.37
	1140 4.17		1056 3.66		1211 4.14		1104 3.79		0718 1.45		0551 1.26		0743 1.67		0650 1.30
WE	1752 0.71	TH	1704 1.19	FR	1837 1.05	SA	1730 1.30	MO	1346 3.75	TU	1238 3.85	WE	1402 3.66	TH	1322 4.03
	2355 4.01		2257 3.50		2309 3.22		2309 3.22		2037 1.40		1925 1.31		2048 1.43		2005 1.08
<b>3</b>	0621 0.61	<b>18</b>	0506 1.03	<b>3</b>	0029 3.36	<b>18</b>	0511 1.14	<b>3</b>	0239 2.88	<b>18</b>	0111 3.06	<b>3</b>	0302 2.99	<b>18</b>	0204 3.37
	1234 4.01		1129 3.54		0644 1.04		1151 3.66		0845 1.62		0706 1.45		0907 1.77		0808 1.44
TH	1850 1.05	FR	1741 1.40	SA	1311 3.89	SU	1826 1.46	TU	1459 3.62	WE	1348 3.78	TH	1506 3.54	FR	1428 3.92
			2331 3.26		1947 1.33			☉	2155 1.38		2036 1.27	☉	2154 1.40		2111 1.04
<b>4</b>	0050 3.60	<b>19</b>	0541 1.21	<b>4</b>	0139 3.04	<b>19</b>	0004 3.01	<b>4</b>	0411 2.99	<b>19</b>	0234 3.10	<b>4</b>	0421 3.14	<b>19</b>	0321 3.49
	0716 0.91		1217 3.41		0756 1.34		0602 1.36		1008 1.59		0836 1.50		1021 1.72		0931 1.45
FR	1337 3.82	SA	1840 1.62	SU	1424 3.70	MO	1257 3.54	WE	1611 3.61	TH	1502 3.80	FR	1610 3.50	SA	1538 3.85
	2003 1.35				2115 1.44		1943 1.55		2301 1.25	☉	2148 1.10		2251 1.30	☉	2218 0.93
<b>5</b>	0158 3.24	<b>20</b>	0024 3.01	<b>5</b>	0315 2.90	<b>20</b>	0126 2.87	<b>5</b>	0516 3.23	<b>20</b>	0355 3.32	<b>5</b>	0522 3.37	<b>20</b>	0438 3.74
	0824 1.16		0635 1.42		0925 1.46		0728 1.54		1113 1.44		0959 1.37		1121 1.58		1050 1.34
SA	1452 3.69	SU	1328 3.30	MO	1547 3.65	TU	1417 3.52	TH	1709 3.68	FR	1612 3.90	SA	1707 3.54	SU	1647 3.83
☉	2134 1.47		2009 1.74	☉	2244 1.34		2107 1.48		2351 1.08		2254 0.86		2339 1.15		2322 0.78
<b>6</b>	0328 3.04	<b>21</b>	0151 2.83	<b>6</b>	0447 3.03	<b>21</b>	0302 2.92	<b>6</b>	0602 3.48	<b>21</b>	0504 3.66	<b>6</b>	0609 3.63	<b>21</b>	0544 4.05
	0947 1.26		0806 1.56		1047 1.37		0906 1.52		1203 1.27		1110 1.15		1211 1.41		1200 1.15
SU	1618 3.72	MO	1458 3.33	TU	1659 3.75	WE	1539 3.65	FR	1755 3.77	SA	1715 4.03	SU	1756 3.60	MO	1753 3.85
	2308 1.35	☉	2143 1.65		2348 1.13	☉	2226 1.23				2350 0.61				
<b>7</b>	0459 3.10	<b>22</b>	0330 2.85	<b>7</b>	0548 3.27	<b>22</b>	0426 3.18	<b>7</b>	0028 0.93	<b>22</b>	0600 4.02	<b>7</b>	0019 1.00	<b>22</b>	0019 0.63
	1107 1.18		0938 1.48		1149 1.19		1028 1.31		0640 3.71		1212 0.91		0647 3.87		0638 4.35
MO	1729 3.88	TU	1620 3.54	WE	1753 3.89	TH	1649 3.90	SA	1245 1.13	SU	1810 4.13	MO	1254 1.26	TU	1302 0.97
			2303 1.36		2329 0.89		2329 0.89		1836 3.84				1839 3.65		1850 3.88
<b>8</b>	0015 1.11	<b>23</b>	0450 3.09	<b>8</b>	0034 0.94	<b>23</b>	0529 3.54	<b>8</b>	0101 0.81	<b>23</b>	0040 0.39	<b>8</b>	0055 0.87	<b>23</b>	0110 0.50
	0604 3.28		1054 1.23		0631 3.50		1133 1.01		0713 3.90		0650 4.34		0722 4.06		0726 4.58
TU	1210 1.01	WE	1724 3.87	TH	1236 1.02	FR	1746 4.15	SU	1321 1.01	MO	1307 0.72	TU	1334 1.13	WE	1356 0.81
	1822 4.06				1835 4.00				1912 3.88		1902 4.17		1918 3.68		1940 3.88
<b>9</b>	0103 0.91	<b>24</b>	0002 0.99	<b>9</b>	0109 0.81	<b>24</b>	0020 0.56	<b>9</b>	0130 0.71	<b>24</b>	0126 0.25	<b>9</b>	0128 0.77	<b>24</b>	0157 0.43
	0650 3.46		0549 3.42		0706 3.69		0619 3.91		0745 4.04		0735 4.59		0754 4.21		0811 4.73
WE	1259 0.86	TH	1154 0.92	FR	1314 0.90	SA	1228 0.72	MO	1356 0.93	TU	1401 0.58	WE	1412 1.03	TH	1446 0.72
	1904 4.18		1815 4.20		1911 4.06		1834 4.35		1947 3.87		1949 4.15		1954 3.68		2027 3.86
<b>10</b>	0141 0.78	<b>25</b>	0050 0.65	<b>10</b>	0139 0.72	<b>25</b>	0106 0.30	<b>10</b>	0158 0.65	<b>25</b>	0211 0.19	<b>10</b>	0159 0.70	<b>25</b>	0241 0.42
	0728 3.60		0637 3.76		0738 3.83		0704 4.24		0816 4.14		0820 4.75		0825 4.31		0854 4.79
TH	1337 0.76	FR	1246 0.61	SA	1348 0.82	SU	1320 0.49	TU	1430 0.89	WE	1451 0.52	TH	1449 0.96	FR	1533 0.69
	1939 4.25		1859 4.48		1944 4.09		1921 4.46		2019 3.83		2037 4.06		2028 3.67	☉	2112 3.81
<b>11</b>	0213 0.71	<b>26</b>	0133 0.35	<b>11</b>	0206 0.66	<b>26</b>	0149 0.11	<b>11</b>	0226 0.62	<b>26</b>	0254 0.22	<b>11</b>	0230 0.65	<b>26</b>	0321 0.48
	0801 3.70		0721 4.06		0808 3.93		0749 4.49		0846 4.20		0906 4.80		0856 4.39		0936 4.76
FR	1411 0.71	SA	1335 0.37	SU	1419 0.78	MO	1410 0.35	WE	1504 0.88	TH	1541 0.54	FR	1525 0.92	SA	1616 0.73
	2012 4.27		1943 4.66		2015 4.07		2006 4.47		2050 3.76	☉	2124 3.92	☉	2102 3.66		2154 3.72
<b>12</b>	0241 0.67	<b>27</b>	0216 0.13	<b>12</b>	0232 0.62	<b>27</b>	0232 0.03	<b>12</b>	0252 0.62	<b>27</b>	0336 0.34	<b>12</b>	0302 0.64	<b>27</b>	0359 0.61
	0832 3.78		0806 4.30		0839 4.00		0834 4.66		0915 4.21		0951 4.75		0929 4.43		1016 4.64
SA	1441 0.69	SU	1423 0.21	MO	1450 0.77	TU	1500 0.31	TH	1537 0.91	FR	1628 0.63	SA	1603 0.90	SU	1654 0.82
	2043 4.25		2027 4.72		2045 4.01	☉	2052 4.36	☉	2119 3.66		2209 3.73		2139 3.62		2235 3.62
<b>13</b>	0306 0.65	<b>28</b>	0259 0.00	<b>13</b>	0256 0.61	<b>28</b>	0314 0.05	<b>13</b>	0319 0.67	<b>28</b>	0416 0.55	<b>13</b>	0336 0.67	<b>28</b>	0435 0.80
	0903 3.82		0851 4.47		0908 4.03		0921 4.72		0944 4.20		1036 4.60		1005 4.43		1056 4.47
SU	1510 0.70	MO	1512 0.16	TU	1520 0.80	WE	1549 0.36	FR	1611 0.96	SA	1715 0.80	SU	1642 0.91	MO	1732 0.96
☉	2112 4.19	☉	2112 4.65	☉	2114 3.91		2139 4.16		2150 3.55		2255 3.52		2219 3.57		2315 3.49
<b>14</b>	0331 0.65	<b>29</b>	0341 -0.00	<b>14</b>	0321 0.63	<b>29</b>	0357 0.20	<b>14</b>	0347 0.75	<b>29</b>	0456 0.81	<b>14</b>	0413 0.76	<b>29</b>	0512 1.04
	0933 3.84		0939 4.55		0936 4.02		1008 4.67		1016 4.15		1122 4.38		1046 4.38		1136 4.25
MO	1538 0.75	TU	1600 0.24	WE	1550 0.87	TH	1639 0.52	SA	1647 1.05	SU	1800 1.00	MO	1725 0.95	TU	1808 1.12
	2140 4.07		2159 4.45		2140 3.77		2226 3.88		2224 3.42		2342 3.30		2303 3.50		2358 3.35
<b>15</b>	0354 0.69	<b>30</b>	0423 0.12	<b>15</b>	0344 0.70	<b>30</b>	0438 0.45	<b>15</b>	0420 0.88	<b>30</b>	0540 1.12	<b>15</b>	0456 0.91	<b>30</b>	0552 1.30
	1002 3.82		1028 4.51		1003 3.97		1056 4.50		1054 4.06		1209 4.12		1132 4.29		1218 4.01
TU	1606 0.85	WE	1649 0.43	TH	1619 0.99	FR	1729 0.76	SU	1729 1.16	MO	1849 1.20	TU	1812 1.01	WE	1849 1.28
	2206 3.92		2245 4.14		2205 3.60		2314 3.56		2306 3.28				2355 3.42		
				<b>31</b>	0521 0.78									<b>31</b>	0046 3.22
					1147 4.26										0641 1.57
					SA 1822 1.03										TH 1305 3.77
															1937 1.42

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – HAY POINT

LAT 21° 16' S LONG 149° 18' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0201 1.02	<b>16</b>	0111 1.55
	0819 6.01		0737 5.47
TH	1446 1.41	FR	1401 1.87
	2034 5.23		1947 4.97
<b>2</b>	0251 0.91	<b>17</b>	0201 1.22
	0906 6.22		0824 5.91
FR	1536 1.26	SA	1451 1.52
	2121 5.24		2036 5.20
<b>3</b>	0335 0.87	<b>18</b>	0249 0.93
	0947 6.33		0907 6.29
SA	1618 1.20	SU	1539 1.22
	2203 5.21		2123 5.40
<b>4</b>	0413 0.89	<b>19</b>	0336 0.69
	1024 6.35		0951 6.61
SU	1656 1.21	MO	1625 0.97
	2240 5.16		2209 5.57
<b>5</b>	0448 0.96	<b>20</b>	0423 0.51
	1058 6.30		1035 6.84
MO	1729 1.26	TU	1711 0.78
○	2315 5.10	●	2256 5.71
<b>6</b>	0520 1.06	<b>21</b>	0509 0.42
	1131 6.19		1118 6.94
TU	1801 1.35	WE	1757 0.66
	2347 5.01		2343 5.78
<b>7</b>	0549 1.21	<b>22</b>	0555 0.45
	1202 6.03		1202 6.88
WE	1831 1.46	TH	1841 0.67
<b>8</b>	0617 4.91	<b>23</b>	0630 5.76
	0617 1.40		0640 0.64
TH	1231 5.83	FR	1247 6.64
	1859 1.59		1925 0.80
<b>9</b>	0647 4.79	<b>24</b>	0618 5.64
	0645 1.64		0728 0.98
FR	1301 5.57	SA	1335 6.25
	1930 1.75		2011 1.03
<b>10</b>	0712 4.64	<b>25</b>	0611 5.46
	0718 1.94		0820 1.40
SA	1335 5.26	SU	1427 5.77
	2006 1.94		2102 1.30
<b>11</b>	0724 4.48	<b>26</b>	0612 5.27
	0758 2.27		0921 1.83
SU	1417 4.93	MO	1529 5.28
	2051 2.11		2204 1.54
<b>12</b>	0800 4.34	<b>27</b>	0625 5.18
	0855 2.59		1042 2.13
MO	1514 4.63	TU	1647 4.92
	2154 2.21	●	2320 1.65
<b>13</b>	0821 4.34	<b>28</b>	0548 5.28
	1025 2.75		1217 2.12
TU	1633 4.48	WE	1814 4.81
●	2310 2.13		
<b>14</b>	0542 4.59	<b>29</b>	0638 1.57
	1159 2.60		0706 5.56
WE	1750 4.54	TH	1338 1.85
			1930 4.92
<b>15</b>	0617 1.88	<b>30</b>	0645 1.37
	0646 5.01		0806 5.89
TH	1306 2.25	FR	1438 1.54
	1852 4.73		2028 5.09
<b>31</b>	0239 1.19		
	0853 6.13		
	SA 1524 1.33		
	2114 5.22		

## FEBRUARY

Time	m	Time	m
<b>1</b>	0324 1.07	<b>16</b>	0230 1.06
	0933 6.26		0847 6.35
SU	1604 1.24	MO	1521 1.13
	2152 5.28		2108 5.56
<b>2</b>	0401 1.04	<b>17</b>	0321 0.73
	1009 6.29		0933 6.70
MO	1638 1.23	TU	1608 0.81
	2226 5.30		2154 5.84
<b>3</b>	0433 1.05	<b>18</b>	0409 0.48
	1040 6.27		1016 6.94
TU	1708 1.24	WE	1653 0.56
	2256 5.30		2240 6.08
<b>4</b>	0503 1.09	<b>19</b>	0456 0.33
	1110 6.20		1100 7.04
WE	1736 1.28	TH	1736 0.43
○	2324 5.29	●	2325 6.22
<b>5</b>	0529 1.17	<b>20</b>	0541 0.33
	1136 6.09		1143 6.94
TH	1801 1.33	FR	1817 0.44
	2351 5.26		
<b>6</b>	0555 1.29	<b>21</b>	0610 6.22
	1202 5.93		0626 0.53
FR	1826 1.42	SA	1227 6.63
			1859 0.62
<b>7</b>	0617 5.19	<b>22</b>	0657 6.08
	0621 1.49		0712 0.90
SA	1228 5.69	SU	1312 6.15
	1850 1.56		1941 0.94
<b>8</b>	0646 5.07	<b>23</b>	0645 5.83
	0650 1.75		0801 1.38
SU	1256 5.39	MO	1401 5.57
	1918 1.75		2027 1.35
<b>9</b>	0618 4.90	<b>24</b>	0624 5.51
	0723 2.08		0858 1.89
MO	1328 5.04	TU	1500 5.00
	1951 1.98		2125 1.75
<b>10</b>	0658 4.71	<b>25</b>	0650 5.24
	0805 2.42		1017 2.25
TU	1409 4.69	WE	1620 4.58
	2038 2.19		2244 2.00
<b>11</b>	0658 4.55	<b>26</b>	0657 5.18
	0912 2.71		1201 2.26
WE	1518 4.38	TH	1800 4.51
	2152 2.32	●	
<b>12</b>	0430 4.58	<b>27</b>	0615 1.97
	1101 2.74		0644 5.40
TH	1658 4.31	FR	1325 1.94
●	2323 2.20		1921 4.76
<b>13</b>	0559 4.91	<b>28</b>	0629 1.71
	1231 2.41		0747 5.72
FR	1821 4.53	SA	1421 1.59
			2016 5.06
<b>14</b>	0636 1.85	<b>29</b>	0705 5.40
	0705 5.40		0705 5.40
SA	1337 1.96		1351 1.64
	1925 4.88		1953 5.00
<b>15</b>	0636 1.44	<b>30</b>	0615 1.73
	0759 5.90		0803 5.71
SU	1432 1.51	MO	1433 1.39
	2020 5.23		2033 5.28
<b>31</b>	0240 1.50		
	0842 5.86		
	TU 1507 1.25		
	2107 5.47		

## MARCH

Time	m	Time	m
<b>1</b>	0223 1.44	<b>16</b>	0113 1.61
	0833 5.98		0733 5.90
SU	1504 1.35	MO	1410 1.39
	2058 5.28		2003 5.34
<b>2</b>	0306 1.26	<b>17</b>	0213 1.18
	0912 6.11		0824 6.33
MO	1540 1.23	TU	1500 0.97
	2133 5.41		2052 5.75
<b>3</b>	0342 1.18	<b>18</b>	0305 0.82
	0945 6.16		0911 6.64
TU	1611 1.19	WE	1547 0.65
	2204 5.48		2138 6.09
<b>4</b>	0413 1.15	<b>19</b>	0354 0.55
	1016 6.15		0955 6.82
WE	1639 1.18	TH	1630 0.42
	2232 5.53		2222 6.37
<b>5</b>	0442 1.15	<b>20</b>	0441 0.40
	1044 6.09		1039 6.84
TH	1706 1.17	FR	1711 0.31
	2258 5.57	●	2306 6.53
<b>6</b>	0509 1.19	<b>21</b>	0526 0.40
	1109 6.00		1122 6.69
FR	1729 1.19	SA	1751 0.35
○	2324 5.58		2349 6.55
<b>7</b>	0535 1.28	<b>22</b>	0610 0.59
	1134 5.85		1205 6.34
SA	1753 1.26	SU	1831 0.58
	2350 5.54		
<b>8</b>	0601 1.44	<b>23</b>	0633 6.38
	1200 5.63		0655 0.95
SU	1817 1.39	MO	1250 5.84
			1910 0.96
<b>9</b>	0617 5.44	<b>24</b>	0612 6.07
	0628 1.67		0742 1.43
MO	1226 5.34	TU	1337 5.26
	1842 1.58		1954 1.43
<b>10</b>	0646 5.29	<b>25</b>	0611 5.67
	0659 1.96		0838 1.91
TU	1254 5.02	WE	1435 4.70
	1911 1.81		2047 1.91
<b>11</b>	0621 5.10	<b>26</b>	0614 5.30
	0737 2.26		0952 2.25
WE	1332 4.68	TH	1554 4.32
	1949 2.06		2204 2.26
<b>12</b>	0209 4.91	<b>27</b>	0438 5.10
	0834 2.54		1134 2.27
TH	1432 4.35	FR	1739 4.31
	2051 2.29	●	2343 2.29
<b>13</b>	0328 4.79	<b>28</b>	0609 5.21
	1014 2.64		1257 1.98
FR	1614 4.21	SA	1900 4.64
	2232 2.34		
<b>14</b>	0511 4.96	<b>29</b>	0103 2.03
	1158 2.36		0715 5.48
SA	1754 4.44	SU	1351 1.64
●			1953 5.00
<b>15</b>	0603 2.04	<b>30</b>	0158 1.73
	0632 5.40		0803 5.71
SU	1311 1.87	MO	1433 1.39
	1906 4.88		2033 5.28
<b>31</b>	0240 1.50		
	0842 5.86		
	TU 1507 1.25		
	2107 5.47		

## APRIL

Time	m	Time	m
<b>1</b>	0316 1.37	<b>16</b>	0249 0.96
	0916 5.91		0848 6.39
WE	1538 1.16	TH	1522 0.56
	2138 5.60		2119 6.25
<b>2</b>	0348 1.29	<b>17</b>	0339 0.72
	0946 5.91		0933 6.46
TH	1606 1.11	FR	1605 0.39
	2206 5.70		2203 6.52
<b>3</b>	0418 1.26	<b>18</b>	0426 0.60
	1013 5.86		1018 6.40
FR	1632 1.08	SA	1646 0.33
	2232 5.78		2246 6.67
<b>4</b>	0447 1.26	<b>19</b>	0511 0.60
	1040 5.77		1101 6.22
SA	1657 1.08	SU	1725 0.41
○	2258 5.82	●	2329 6.67
<b>5</b>	0515 1.32	<b>20</b>	0555 0.76
	1107 5.63		1146 5.89
SU	1722 1.13	MO	1804 0.64
	2325 5.82		
<b>6</b>	0543 1.44	<b>21</b>	0612 6.50
	1134 5.43		0640 1.06
MO	1748 1.25	TU	1230 5.45
	2353 5.74		1843 1.02
<b>7</b>	0612 1.63	<b>22</b>	0657 6.18
	1203 5.18		0726 1.45
TU	1814 1.42	WE	1317 4.97
			1925 1.47
<b>8</b>	0624 5.61	<b>23</b>	0644 5.77
	0645 1.86		0817 1.84
WE	1235 4.91	TH	1412 4.53
	1845 1.64		2013 1.95
<b>9</b>	0659 5.45	<b>24</b>	0624 5.37
	0724 2.09		0922 2.14
TH	1316 4.62	FR	1521 4.23
	1924 1.89		2119 2.33
<b>10</b>	0747 5.25	<b>25</b>	0651 5.08
	0821 2.31		1047 2.21
FR	1417 4.35	SA	1655 4.20
	2023 2.15		2253 2.48
<b>11</b>	0758 5.10	<b>26</b>	065

# AUSTRALIA, EAST COAST – HAY POINT

LAT 21° 16' S LONG 149° 18' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0319 1.47	<b>16</b>	0326 0.95	<b>1</b>	0402 1.39	<b>16</b>	0451 0.99	<b>1</b>	0534 0.61	<b>16</b>	0553 1.08
	0911 5.59		0915 5.95		0945 5.24		1035 5.30		1119 5.59		1143 5.14
FR	1529 1.09	SA	1542 0.49	MO	1559 0.93	TU	1648 0.72	WE	1616 0.74	TH	1711 0.89
	2136 5.77		2147 6.51		2212 6.07		2258 6.46		2231 6.34	●	2320 6.22
<b>2</b>	0352 1.39	<b>17</b>	0414 0.84	<b>2</b>	0439 1.32	<b>17</b>	0533 1.04	<b>2</b>	0506 1.07	<b>17</b>	0552 1.11
	0942 5.55		1001 5.86		1022 5.21		1117 5.18		1048 5.24		1139 5.04
SA	1558 1.02	SU	1623 0.48	TU	1634 0.90	WE	1726 0.86	TH	1658 0.68	FR	1743 1.03
	2205 5.89		2230 6.63		2247 6.17	●	2338 6.35	○	2312 6.45		2353 6.07
<b>3</b>	0424 1.35	<b>18</b>	0500 0.84	<b>3</b>	0517 1.29	<b>18</b>	0612 1.15	<b>3</b>	0549 0.98	<b>18</b>	0624 1.21
	1011 5.49		1045 5.69		1101 5.16		1158 5.01		1133 5.26		1212 4.94
SU	1626 1.00	MO	1703 0.56	WE	1710 0.92	TH	1802 1.07	FR	1742 0.69	SA	1814 1.21
	2234 5.98	●	2312 6.62	○	2324 6.21				2354 6.47		
<b>4</b>	0456 1.35	<b>19</b>	0543 0.94	<b>4</b>	0558 1.31	<b>19</b>	0016 6.14	<b>4</b>	0633 0.95	<b>19</b>	0025 5.86
	1042 5.38		1129 5.45		1141 5.07		0649 1.32		1219 5.24		0653 1.34
MO	1656 1.02	TU	1742 0.76	TH	1748 1.01	FR	1237 4.83	SA	1826 0.80	SU	1243 4.83
○	2305 6.01		2354 6.46				1838 1.34		1913 1.01		1844 1.45
<b>5</b>	0529 1.41	<b>20</b>	0626 1.14	<b>5</b>	0003 6.17	<b>20</b>	0053 5.86	<b>5</b>	0038 6.37	<b>20</b>	0055 5.59
	1115 5.24		1214 5.15		0640 1.37		0725 1.52		0718 0.99		0723 1.50
TU	1726 1.10	WE	1821 1.07	FR	1225 4.95	SA	1316 4.63	SU	1308 5.18	MO	1317 4.68
	2336 5.98				1829 1.16		1913 1.64		1913 1.01		1915 1.73
<b>6</b>	0603 1.53	<b>21</b>	0036 6.18	<b>6</b>	0046 6.06	<b>21</b>	0130 5.54	<b>6</b>	0125 6.15	<b>21</b>	0127 5.28
	1149 5.06		0709 1.41		0726 1.45		0805 1.72		0806 1.08		0756 1.69
WE	1758 1.25	TH	1259 4.82	SA	1315 4.83	SU	1359 4.45	MO	1401 5.09	TU	1356 4.52
			1900 1.44		1916 1.37		1952 1.97		2006 1.29		1951 2.06
<b>7</b>	0010 5.89	<b>22</b>	0119 5.82	<b>7</b>	0135 5.89	<b>22</b>	0212 5.22	<b>7</b>	0217 5.86	<b>22</b>	0205 4.92
	0640 1.68		0754 1.70		0819 1.53		0849 1.89		0858 1.19		0836 1.89
TH	1227 4.84	FR	1347 4.51	SU	1413 4.73	MO	1451 4.31	TU	1502 5.03	WE	1446 4.36
	1833 1.44		1943 1.84		2013 1.60		2041 2.28		2106 1.57		2041 2.39
<b>8</b>	0050 5.74	<b>23</b>	0206 5.45	<b>8</b>	0232 5.70	<b>23</b>	0302 4.91	<b>8</b>	0317 5.53	<b>23</b>	0254 4.57
	0724 1.84		0845 1.94		0920 1.54		0945 2.01		0959 1.27		0931 2.06
FR	1313 4.63	SA	1442 4.28	MO	1521 4.73	TU	1557 4.26	WE	1613 5.06	TH	1556 4.28
	1916 1.68		2035 2.21		2121 1.78		2150 2.52		2218 1.79		2157 2.62
<b>9</b>	0139 5.57	<b>24</b>	0301 5.13	<b>9</b>	0340 5.55	<b>24</b>	0407 4.68	<b>9</b>	0428 5.25	<b>24</b>	0406 4.32
	0822 1.97		0948 2.08		1028 1.46		1052 2.01		1107 1.27		1044 2.08
SA	1416 4.46	SU	1552 4.19	TU	1638 4.89	WE	1713 4.37	TH	1728 5.21	FR	1717 4.42
	2015 1.92		2145 2.47		2240 1.85	●	2318 2.56	●	2343 1.84	●	2336 2.58
<b>10</b>	0244 5.42	<b>25</b>	0409 4.92	<b>10</b>	0454 5.47	<b>25</b>	0519 4.60	<b>10</b>	0545 5.09	<b>25</b>	0527 4.28
	0936 1.97		1101 2.06		1138 1.28		1155 1.88		1218 1.18		1155 1.91
SU	1537 4.44	MO	1715 4.30	WE	1753 5.19	TH	1820 4.64	FR	1842 5.50	SA	1826 4.75
	2136 2.06		2313 2.51	●							
<b>11</b>	0404 5.39	<b>26</b>	0522 4.87	<b>11</b>	0001 1.75	<b>26</b>	0033 2.38	<b>11</b>	0106 1.68	<b>26</b>	0050 2.29
	1057 1.77		1205 1.90		0607 5.47		0622 4.65		0659 5.06		0635 4.43
MO	1704 4.68	TU	1825 4.58	TH	1243 1.07	FR	1248 1.66	SA	1325 1.04	SU	1252 1.63
●	2305 1.97	●			1900 5.56		1913 4.99		1947 5.82		1921 5.17
<b>12</b>	0524 5.52	<b>27</b>	0027 2.35	<b>12</b>	0116 1.55	<b>27</b>	0129 2.10	<b>12</b>	0216 1.43	<b>27</b>	0147 1.93
	1210 1.44		0626 4.95		0713 5.49		0714 4.78		0805 5.11		0730 4.66
TU	1819 5.09	WE	1257 1.68	FR	1343 0.87	SA	1332 1.42	SU	1423 0.90	MO	1342 1.32
			1916 4.91		1958 5.92		1956 5.35		2041 6.09		2007 5.58
<b>13</b>	0025 1.71	<b>28</b>	0123 2.10	<b>13</b>	0222 1.32	<b>28</b>	0216 1.82	<b>13</b>	0312 1.20	<b>28</b>	0235 1.58
	0634 5.73		0716 5.07		0811 5.49		0800 4.90		0859 5.15		0819 4.89
WE	1313 1.08	TH	1339 1.46	SA	1436 0.73	SU	1414 1.20	MO	1513 0.81	TU	1429 1.03
	1921 5.55		1956 5.24		2050 6.20		2036 5.66		2127 6.26		2050 5.94
<b>14</b>	0134 1.40	<b>29</b>	0208 1.86	<b>14</b>	0317 1.13	<b>29</b>	0259 1.58	<b>14</b>	0400 1.06	<b>29</b>	0321 1.27
	0734 5.90		0758 5.17		0903 5.46		0842 5.01		0945 5.16		0905 5.10
TH	1408 0.79	FR	1416 1.27	SU	1524 0.66	MO	1454 1.01	TU	1557 0.78	WE	1514 0.78
	2015 5.96		2032 5.51		2136 6.39		2114 5.93		2208 6.33		2132 6.26
<b>15</b>	0233 1.13	<b>30</b>	0248 1.66	<b>15</b>	0407 1.03	<b>30</b>	0341 1.38	<b>15</b>	0442 1.02	<b>30</b>	0406 1.01
	0827 5.97		0834 5.23		0951 5.40		0924 5.10		1026 5.15		0949 5.29
FR	1458 0.60	SA	1451 1.12	MO	1608 0.66	TU	1535 0.86	WE	1636 0.81	TH	1600 0.58
	2102 6.28		2105 5.74		2218 6.48		2152 6.16		2245 6.31		2213 6.51
<b>31</b>	0325 1.50									<b>31</b>	0450 0.78
	0910 5.25										1034 5.46
	SU 1524 1.01										FR 1646 0.44
	2138 5.93										○ 2256 6.67

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – HAY POINT

LAT 21° 16' S LONG 149° 18' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## SEPTEMBER

Time	m	Time	m
<b>1</b>	0003 6.50 0636 0.36 TU 1233 5.95 1850 0.62	<b>16</b>	0606 1.19 1207 5.22 WE 1819 1.53
<b>2</b>	0048 6.09 0718 0.62 WE 1321 5.75 1938 1.04	<b>17</b>	0015 5.09 0630 1.39 TH 1235 5.05 1848 1.82
<b>3</b>	0137 5.56 0803 0.98 TH 1415 5.48 2034 1.51	<b>18</b>	0043 4.76 0657 1.64 FR 1307 4.84 1923 2.12
<b>4</b>	0233 4.99 0858 1.37 FR 1521 5.22 2146 1.88	<b>19</b>	0116 4.40 0732 1.91 SA 1351 4.63 2015 2.41
<b>5</b>	0347 4.53 1011 1.66 SA 1643 5.12 ☉ 2321 1.98	<b>20</b>	0208 4.07 0826 2.17 SU 1504 4.49 2147 2.55
<b>6</b>	0523 4.38 1140 1.69 SU 1811 5.28	<b>21</b>	0344 3.88 1002 2.27 MO 1647 4.61 ☉ 2335 2.31
<b>7</b>	0053 1.71 0652 4.58 MO 1259 1.47 1920 5.60	<b>22</b>	0531 4.08 1138 2.01 TU 1808 5.03
<b>8</b>	0157 1.34 0754 4.91 TU 1400 1.19 2012 5.87	<b>23</b>	0049 1.83 0644 4.53 WE 1247 1.56 1909 5.53
<b>9</b>	0245 1.06 0840 5.16 WE 1448 0.99 2054 6.01	<b>24</b>	0145 1.33 0739 5.01 TH 1345 1.12 1959 5.98
<b>10</b>	0324 0.93 0918 5.29 TH 1527 0.91 2131 6.04	<b>25</b>	0234 0.89 0827 5.44 FR 1438 0.74 2046 6.32
<b>11</b>	0358 0.89 0951 5.35 FR 1601 0.91 2203 6.00	<b>26</b>	0321 0.55 0912 5.80 SA 1528 0.46 2130 6.54
<b>12</b>	0428 0.91 1021 5.38 SA 1632 0.95 2232 5.92	<b>27</b>	0404 0.29 0957 6.10 SU 1616 0.29 2214 6.61
<b>13</b>	0455 0.93 1049 5.39 SU 1700 1.02 ☉ 2259 5.80	<b>28</b>	0447 0.14 1041 6.30 MO 1702 0.24 ☉ 2258 6.51
<b>14</b>	0520 0.97 1115 5.38 MO 1726 1.13 2324 5.62	<b>29</b>	0528 0.13 1125 6.37 TU 1748 0.36 2343 6.23
<b>15</b>	0543 1.05 1140 5.33 TU 1752 1.30 2350 5.39	<b>30</b>	0609 0.29 1211 6.27 WE 1835 0.65

## OCTOBER

Time	m	Time	m
<b>1</b>	0028 5.78 0650 0.61 TH 1259 6.01 1924 1.07	<b>16</b>	0601 1.30 1209 5.36 FR 1831 1.75
<b>2</b>	0117 5.23 0735 1.06 FR 1351 5.65 2020 1.53	<b>17</b>	0020 4.65 0629 1.53 SA 1242 5.17 1908 2.00
<b>3</b>	0215 4.68 0828 1.53 SA 1453 5.30 2130 1.88	<b>18</b>	0057 4.36 0704 1.79 SU 1325 4.97 1958 2.22
<b>4</b>	0329 4.28 0940 1.90 SU 1613 5.09 2303 1.95	<b>19</b>	0149 4.09 0755 2.06 MO 1429 4.81 2120 2.32
<b>5</b>	0508 4.21 1115 1.97 MO 1741 5.15 ☉	<b>20</b>	0317 3.95 0921 2.23 TU 1600 4.82 2257 2.11
<b>6</b>	0029 1.70 0636 4.50 TU 1238 1.74 1852 5.40	<b>21</b>	0501 4.16 1101 2.07 WE 1728 5.12 ☉
<b>7</b>	0130 1.36 0733 4.89 WE 1337 1.44 1944 5.63	<b>22</b>	0014 1.67 0618 4.63 TH 1219 1.67 1836 5.54
<b>8</b>	0215 1.09 0817 5.20 TH 1424 1.21 2025 5.77	<b>23</b>	0114 1.19 0716 5.16 FR 1323 1.24 1931 5.91
<b>9</b>	0253 0.94 0853 5.39 FR 1502 1.10 2102 5.80	<b>24</b>	0207 0.77 0807 5.64 SA 1420 0.88 2021 6.17
<b>10</b>	0326 0.88 0925 5.50 SA 1536 1.06 2133 5.77	<b>25</b>	0254 0.45 0853 6.04 SU 1511 0.62 2107 6.28
<b>11</b>	0354 0.86 0954 5.58 SU 1607 1.06 2203 5.69	<b>26</b>	0339 0.24 0938 6.34 MO 1600 0.46 2152 6.27
<b>12</b>	0421 0.86 1022 5.62 MO 1636 1.10 2230 5.57	<b>27</b>	0421 0.14 1022 6.54 TU 1647 0.43 ☉ 2238 6.13
<b>13</b>	0447 0.89 1048 5.64 TU 1704 1.18 ☉ 2256 5.40	<b>28</b>	0503 0.17 1106 6.59 WE 1734 0.53 2324 5.85
<b>14</b>	0510 0.97 1114 5.60 WE 1732 1.32 2323 5.19	<b>29</b>	0543 0.36 1151 6.48 TH 1821 0.77
<b>15</b>	0535 1.10 1141 5.51 TH 1800 1.52 2351 4.93	<b>30</b>	0010 5.45 0625 0.69 FR 1238 6.20 1910 1.12
<b>31</b>	0100 4.98 0709 1.14 SA 1328 5.82 2003 1.50		

## NOVEMBER

Time	m	Time	m
<b>1</b>	0155 4.54 0759 1.61 SU 1424 5.42 2106 1.81	<b>16</b>	0050 4.46 0652 1.62 MO 1313 5.38 1955 1.95
<b>2</b>	0303 4.22 0904 2.02 MO 1532 5.12 2224 1.92	<b>17</b>	0144 4.28 0744 1.87 TU 1411 5.22 2102 1.99
<b>3</b>	0430 4.15 1030 2.20 TU 1653 5.02 ☉ 2345 1.79	<b>18</b>	0300 4.21 0858 2.05 WE 1526 5.16 2222 1.85
<b>4</b>	0559 4.39 1158 2.09 WE 1808 5.13	<b>19</b>	0428 4.38 1028 2.03 TH 1649 5.27 ☉ 2337 1.53
<b>5</b>	0047 1.53 0700 4.76 TH 1303 1.83 1905 5.30	<b>20</b>	0548 4.79 1150 1.79 FR 1801 5.50
<b>6</b>	0135 1.28 0746 5.11 FR 1352 1.59 1949 5.43	<b>21</b>	0041 1.14 0652 5.29 SA 1300 1.45 1903 5.72
<b>7</b>	0214 1.10 0823 5.38 SA 1433 1.41 2027 5.49	<b>22</b>	0138 0.79 0747 5.77 SU 1402 1.13 1958 5.86
<b>8</b>	0248 0.98 0857 5.57 SU 1509 1.30 2101 5.49	<b>23</b>	0229 0.53 0836 6.16 MO 1458 0.89 2048 5.90
<b>9</b>	0319 0.91 0927 5.71 MO 1542 1.25 2133 5.43	<b>24</b>	0316 0.37 0923 6.45 TU 1549 0.75 2136 5.85
<b>10</b>	0347 0.87 0956 5.81 TU 1614 1.24 2202 5.34	<b>25</b>	0400 0.31 1007 6.63 WE 1637 0.69 2223 5.72
<b>11</b>	0415 0.88 1024 5.85 WE 1645 1.27 2232 5.21	<b>26</b>	0442 0.35 1051 6.68 TH 1724 0.75 ☉ 2309 5.52
<b>12</b>	0443 0.93 1052 5.86 TH 1717 1.35 ☉ 2302 5.06	<b>27</b>	0524 0.51 1135 6.58 FR 1809 0.91 2355 5.24
<b>13</b>	0511 1.03 1122 5.80 FR 1749 1.48 2334 4.87	<b>28</b>	0605 0.79 1219 6.33 SA 1854 1.16
<b>14</b>	0541 1.18 1154 5.70 SA 1824 1.64	<b>29</b>	0043 4.93 0647 1.16 SU 1304 5.99 1941 1.44
<b>15</b>	0009 4.67 0614 1.38 SU 1230 5.55 1904 1.81	<b>30</b>	0132 4.61 0731 1.58 MO 1351 5.60 2032 1.71

## DECEMBER

Time	m	Time	m
<b>1</b>	0227 4.36 0822 1.98 TU 1446 5.25 2131 1.89	<b>16</b>	0139 4.67 0738 1.59 WE 1358 5.66 2045 1.65
<b>2</b>	0333 4.22 0928 2.29 WE 1551 4.98 2240 1.92	<b>17</b>	0241 4.61 0841 1.82 TH 1500 5.48 2149 1.61
<b>3</b>	0454 4.28 1054 2.41 TH 1705 4.88 ☉ 2348 1.81	<b>18</b>	0357 4.69 0957 1.96 FR 1613 5.37 2300 1.47
<b>4</b>	0610 4.54 1212 2.28 FR 1812 4.93	<b>19</b>	0515 4.95 1121 1.92 SA 1729 5.37 ☉
<b>5</b>	0044 1.60 0706 4.89 SA 1312 2.05 1906 5.03	<b>20</b>	0009 1.24 0627 5.35 SU 1240 1.71 1838 5.43
<b>6</b>	0129 1.39 0749 5.22 SU 1359 1.82 1950 5.13	<b>21</b>	0112 0.98 0730 5.78 MO 1349 1.44 1941 5.49
<b>7</b>	0208 1.21 0827 5.51 MO 1440 1.62 2028 5.18	<b>22</b>	0209 0.77 0824 6.16 TU 1450 1.19 2037 5.51
<b>8</b>	0242 1.07 0900 5.73 TU 1518 1.48 2103 5.19	<b>23</b>	0300 0.62 0913 6.44 WE 1543 1.01 2128 5.50
<b>9</b>	0315 0.98 0931 5.90 WE 1553 1.39 2137 5.17	<b>24</b>	0347 0.56 0958 6.60 TH 1630 0.92 2215 5.45
<b>10</b>	0347 0.92 1003 6.01 TH 1628 1.35 2211 5.13	<b>25</b>	0430 0.57 1040 6.66 FR 1715 0.92 ☉ 2258 5.37
<b>11</b>	0421 0.91 1035 6.08 FR 1704 1.34 ☉ 2246 5.07	<b>26</b>	0510 0.67 1121 6.59 SA 1755 1.00 2341 5.24
<b>12</b>	0454 0.93 1108 6.11 SA 1741 1.37 2323 5.00	<b>27</b>	0548 0.85 1200 6.41 SU 1835 1.16
<b>13</b>	0529 1.01 1144 6.08 SU 1820 1.43	<b>28</b>	0022 5.06 0626 1.13 MO 1239 6.13 1913 1.37
<b>14</b>	0003 4.90 0607 1.15 MO 1223 5.99 1902 1.52	<b>29</b>	0103 4.86 0703 1.46 TU 1318 5.79 1952 1.60
<b>15</b>	0047 4.78 0649 1.35 TU 1306 5.84 1949 1.60	<b>30</b>	0145 4.64 0742 1.83 WE 1359 5.43 2035 1.82
<b>31</b>	0233 4.45 0827 2.20 TH 1447 5.07 2126 2.00		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon    ☽ First Quarter    ☽ Full Moon    ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – MACKAY OUTER HARBOUR

LAT 21° 06' S LONG 149° 14' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0203 0.77	<b>16</b>	0114 1.29	<b>1</b>	0325 0.85	<b>16</b>	0233 0.84	<b>1</b>	0318 1.16	<b>16</b>	0251 0.75	
	0822 5.53		0741 5.02		0936 5.76		0850 5.85		0918 5.42		0850 5.87	
TH	1449 1.18	FR	1405 1.62	SU	1606 1.03	MO	1524 0.91	WE	1540 0.96	TH	1524 0.37	
	2037 4.76		1949 4.51		2155 4.79		2111 5.05		2140 5.11		2122 5.74	
<b>2</b>	0253 0.68	<b>17</b>	0204 0.98	<b>2</b>	0403 0.83	<b>17</b>	0323 0.54	<b>2</b>	0308 1.04	<b>17</b>	0215 0.95	
	0909 5.73		0827 5.43		1011 5.79		0936 6.18		0914 5.63		0827 5.84	
FR	1538 1.04	SA	1455 1.29	MO	1641 1.02	TU	1611 0.62	MO	1543 1.02	TU	1502 0.76	
	2125 4.75		2039 4.71		2229 4.81		2157 5.32		2136 4.92		2055 5.25	
<b>3</b>	0337 0.65	<b>18</b>	0251 0.71	<b>3</b>	0435 0.84	<b>18</b>	0411 0.30	<b>3</b>	0344 0.97	<b>18</b>	0307 0.62	
	0950 5.84		0911 5.80		1043 5.77		1019 6.41		0948 5.66		0913 6.12	
SA	1621 0.99	SU	1542 1.01	TU	1711 1.04	WE	1655 0.39	TU	1614 0.99	WE	1548 0.46	
	2206 4.72		2126 4.89		2259 4.81		2243 5.54		2208 4.99		2140 5.57	
<b>4</b>	0415 0.68	<b>19</b>	0338 0.49	<b>4</b>	0505 0.89	<b>19</b>	0458 0.17	<b>4</b>	0416 0.95	<b>19</b>	0357 0.38	
	1027 5.86		0954 6.09		1113 5.70		1103 6.49		1018 5.64		0957 6.28	
SU	1658 1.00	MO	1628 0.77	WE	1739 1.08	TH	1738 0.26	WE	1642 0.98	TH	1632 0.25	
	2244 4.68		2212 5.05	○	2327 4.79	●	2328 5.67	○	2235 5.03	○	2224 5.83	
<b>5</b>	0450 0.75	<b>20</b>	0425 0.33	<b>5</b>	0532 0.97	<b>20</b>	0543 0.18	<b>5</b>	0444 0.95	<b>20</b>	0443 0.24	
	1101 5.81		1037 6.31		1140 5.59		1146 6.39		1046 5.59		1041 6.30	
MO	1733 1.05	TU	1714 0.59	TH	1805 1.13	FR	1820 0.28	TH	1708 0.98	FR	1713 0.15	
○	2318 4.61	●	2258 5.18	○	2353 4.76			○	2301 5.07	●	2308 5.99	
<b>6</b>	0522 0.85	<b>21</b>	0510 0.24	<b>6</b>	0558 1.09	<b>21</b>	0014 5.68	<b>6</b>	0510 0.99	<b>21</b>	0528 0.25	
	1134 5.70		1121 6.40		1206 5.43		0629 0.37		1112 5.49		1124 6.14	
TU	1805 1.14	WE	1759 0.49	FR	1829 1.22	SA	1231 6.09	FR	1732 1.00	SA	1753 0.20	
	2351 4.52		2346 5.24		1902 0.45		1902 0.45	○	2327 5.08		2352 6.00	
<b>7</b>	0551 1.00	<b>22</b>	0557 0.28	<b>7</b>	0021 4.70	<b>22</b>	0100 5.55	<b>7</b>	0537 1.08	<b>22</b>	0613 0.44	
	1205 5.54		1205 6.34		0625 1.28		0715 0.73		1137 5.35		1208 5.80	
WE	1834 1.25	TH	1843 0.49	SA	1232 5.20	SU	1316 5.63	SA	1755 1.07	SU	1833 0.41	
					1854 1.35		1944 0.76		2353 5.04			
<b>8</b>	0021 4.43	<b>23</b>	0033 5.22	<b>8</b>	0050 4.59	<b>23</b>	0149 5.31	<b>8</b>	0604 1.24	<b>23</b>	0037 5.85	
	0619 1.19		0643 0.47		0654 1.53		0804 1.19		1202 5.13		0658 0.78	
TH	1235 5.34	FR	1251 6.11	SU	1300 4.92	MO	1405 5.08	SU	1819 1.19	MO	1253 5.32	
	1904 1.38		1928 0.62		1923 1.52		2031 1.13		1913 0.77		1913 0.77	
<b>9</b>	0052 4.31	<b>24</b>	0123 5.11	<b>9</b>	0123 4.43	<b>24</b>	0245 5.03	<b>9</b>	0020 4.95	<b>24</b>	0123 5.56	
	0649 1.42		0731 0.79		0727 1.83		0902 1.65		0632 1.46		0746 1.23	
FR	1305 5.09	SA	1338 5.73	MO	1331 4.59	TU	1505 4.54	MO	1228 4.86	TU	1341 4.77	
	1935 1.52		2015 0.83		1956 1.72		2129 1.49		1845 1.37		1956 1.21	
<b>10</b>	0126 4.18	<b>25</b>	0215 4.95	<b>10</b>	0204 4.26	<b>25</b>	0355 4.80	<b>10</b>	0050 4.81	<b>25</b>	0215 5.20	
	0721 1.69		0823 1.20		0810 2.15		1023 1.98		0703 1.72		0842 1.67	
SA	1339 4.80	SU	1431 5.27	TU	1413 4.26	WE	1626 4.16	TU	1257 4.56	WE	1439 4.26	
	2010 1.69		2107 1.07		2043 1.91		2249 1.72		1914 1.57		2051 1.66	
<b>11</b>	0210 4.03	<b>26</b>	0317 4.80	<b>11</b>	0305 4.13	<b>26</b>	0523 4.77	<b>11</b>	0124 4.64	<b>26</b>	0320 4.86	
	0802 2.01		0926 1.60		0917 2.41		1206 1.97		0741 2.00		0959 1.98	
SU	1422 4.50	MO	1533 4.82	WE	1523 3.98	TH	1805 4.11	WE	1335 4.24	TH	1600 3.92	
	2056 1.84		2209 1.28		2156 2.02	●			1953 1.79		2208 1.98	
<b>12</b>	0307 3.92	<b>27</b>	0431 4.73	<b>12</b>	0436 4.18	<b>27</b>	0019 1.68	<b>12</b>	0214 4.47	<b>27</b>	0444 4.70	
	0900 2.30		1047 1.87		1105 2.43		0647 4.98		0840 2.26		1139 1.98	
MO	1519 4.22	TU	1651 4.48	TH	1701 3.91	FR	1328 1.66	TH	1435 3.94	FR	1743 3.92	
	2159 1.92	●	2324 1.37	●	2326 1.90		1924 4.34		2055 2.00	●	2347 1.99	
<b>13</b>	0425 3.94	<b>28</b>	0554 4.85	<b>13</b>	0602 4.50	<b>28</b>	0131 1.44	<b>13</b>	0335 4.38	<b>28</b>	0612 4.80	
	1029 2.45		1222 1.85		1234 2.12		0749 5.28		1019 2.34		1259 1.70	
TU	1636 4.07	WE	1818 4.38	FR	1823 4.11	SA	1423 1.34	FR	1618 3.81	SA	1903 4.22	
●	2315 1.84				2019 4.62				2235 2.03			
<b>14</b>	0546 4.18	<b>29</b>	0042 1.30	<b>14</b>	0039 1.57	<b>29</b>	0709 4.96	<b>14</b>	0515 4.55	<b>29</b>	0104 1.76	
	1202 2.30		0710 5.13		0709 4.96		1340 1.69		1202 2.06		0717 5.04	
WE	1752 4.12	TH	1342 1.59	SA	1340 1.69	1928 4.43	SA	1757 4.03	SA	1354 1.39	SU	1354 1.39
			1934 4.48		1928 4.43			●		●	1956 4.56	
<b>15</b>	0019 1.60	<b>30</b>	0148 1.12	<b>15</b>	0139 1.20	<b>30</b>	0802 5.44	<b>15</b>	0005 1.76	<b>30</b>	0159 1.48	
	0649 4.58		0809 5.43		0802 5.44		1435 1.27		0635 4.97		0805 5.25	
TH	1310 1.98	FR	1441 1.30	SU	1435 1.27	2022 4.75	SU	1315 1.61	SU	1315 1.61	MO	1435 1.16
	1855 4.29		2032 4.63		2022 4.75				1909 4.44		2036 4.82	
<b>31</b>	0241 0.95		0857 5.65					<b>31</b>	0242 1.28		0844 5.38	
			SA 1527 1.11						TU 1509 1.03		2110 4.99	
			2117 4.74									

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – MACKAY OUTER HARBOUR

LAT 21° 06' S LONG 149° 14' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER										
Time	m	Time	m	Time	m	Time	m									
<b>1</b>	0006 5.94	<b>16</b>	0609 0.98	<b>1</b>	0031 5.24	<b>16</b>	0603 1.07	<b>1</b>	0232 3.91	<b>16</b>	0142 4.19					
	0638 0.18		1210 4.72		0653 0.43		1213 4.88		0826 1.72		0741 1.35					
TU	1236 5.40	WE	1822 1.31	TH	1302 5.48	FR	1836 1.52	SU	1428 4.97	MO	1317 4.92	TU	1451 4.81	WE	1401 5.18	
	1852 0.44				1927 0.88				2111 1.55		2000 1.69		2137 1.61		2049 1.40	
<b>2</b>	0052 5.55	<b>17</b>	0018 4.60	<b>2</b>	0121 4.72	<b>17</b>	0022 4.18	<b>2</b>	0309 3.79	<b>17</b>	0148 3.83	<b>2</b>	0339 3.80	<b>17</b>	0246 4.15	
	0721 0.42		0633 1.17		0738 0.84		0632 1.29		0907 1.74		0747 1.60		0933 2.01		0843 1.57	
WE	1325 5.22	TH	1238 4.57	FR	1355 5.16	SA	1246 4.71	MO	1537 4.69	TU	1415 4.77	WE	1556 4.56	TH	1504 5.01	
	1942 0.84		1852 1.58		2023 1.30		1913 1.74		2230 1.63		2108 1.72		2246 1.63		2154 1.36	
<b>3</b>	0140 5.03	<b>18</b>	0045 4.28	<b>3</b>	0219 4.21	<b>18</b>	0059 3.91	<b>3</b>	0436 3.75	<b>18</b>	0305 3.77	<b>3</b>	0501 3.88	<b>18</b>	0402 4.23	
	0807 0.76		0701 1.39		0832 1.28		0706 1.53		1034 1.91		0900 1.78		1057 2.11		1000 1.70	
TH	1420 4.98	FR	1311 4.38	SA	1459 4.84	SU	1329 4.52	TU	1658 4.61	WE	1531 4.72	TH	1710 4.47	FR	1618 4.91	
	2038 1.28		1928 1.86		2136 1.61		2005 1.94	☉	2348 1.50	☉	2227 1.57	☉	2353 1.52	☉	2304 1.21	
<b>4</b>	0237 4.50	<b>19</b>	0118 3.95	<b>4</b>	0335 3.85	<b>19</b>	0152 3.65	<b>4</b>	0602 3.98	<b>19</b>	0433 3.95	<b>4</b>	0614 4.13	<b>19</b>	0520 4.50	
	0902 1.12		0736 1.64		0945 1.61		0758 1.77		1200 1.80		1030 1.76		1216 2.00		1124 1.66	
FR	1526 4.75	SA	1356 4.19	SU	1618 4.66	MO	1434 4.38	WE	1811 4.70	TH	1653 4.82	FR	1815 4.51	SA	1733 4.91	
	2151 1.63		2021 2.12		2308 1.66		2126 2.02			☉	2341 1.26			☉		
<b>5</b>	0353 4.08	<b>20</b>	0211 3.64	<b>5</b>	0513 3.80	<b>20</b>	0321 3.54	<b>5</b>	0050 1.25	<b>20</b>	0551 4.34	<b>5</b>	0047 1.33	<b>20</b>	0013 0.98	
	1016 1.38		0830 1.87		1118 1.68		0924 1.92		0702 4.33		1153 1.53		0709 4.46		0631 4.89	
SA	1649 4.68	SU	1510 4.07	MO	1745 4.73	TU	1605 4.40	TH	1305 1.57	FR	1805 5.04	SA	1315 1.79	SU	1244 1.47	
☉	2327 1.69		2152 2.24	☉			2302 1.81		1907 4.85				1909 4.59		1842 4.96	
<b>6</b>	0528 3.95	<b>21</b>	0349 3.48	<b>6</b>	0033 1.42	<b>21</b>	0504 3.74	<b>6</b>	0138 1.02	<b>21</b>	0045 0.89	<b>6</b>	0132 1.14	<b>21</b>	0116 0.74	
	1143 1.40		1004 1.95		0638 4.08		1103 1.78		0749 4.65		0655 4.82		0753 4.77		0733 5.30	
SU	1814 4.85	MO	1651 4.20	TU	1239 1.47	WE	1732 4.69	FR	1354 1.34	SA	1304 1.21	SU	1402 1.57	MO	1353 1.21	
		☉	2339 2.00		1854 4.95	☉			1951 4.96		1906 5.24		1952 4.67		1944 5.00	
<b>7</b>	0057 1.43	<b>22</b>	0534 3.67	<b>7</b>	0132 1.10	<b>22</b>	0018 1.39	<b>7</b>	0217 0.86	<b>22</b>	0141 0.56	<b>7</b>	0210 0.97	<b>22</b>	0212 0.54	
	0655 4.15		1140 1.71		0735 4.44		0620 4.19		0826 4.90		0750 5.27		0829 5.03		0827 5.67	
MO	1302 1.19	TU	1812 4.60	WE	1339 1.19	TH	1222 1.41	SA	1435 1.19	SU	1405 0.92	MO	1443 1.39	TU	1453 0.98	
	1923 5.14				1947 5.17		1838 5.08		2029 5.01		2000 5.36		2030 4.71		2040 5.02	
<b>8</b>	0159 1.08	<b>23</b>	0052 1.55	<b>8</b>	0217 0.85	<b>23</b>	0118 0.93	<b>8</b>	0251 0.76	<b>23</b>	0232 0.31	<b>8</b>	0245 0.85	<b>23</b>	0302 0.41	
	0756 4.44		0645 4.08		0820 4.72		0719 4.69		0900 5.08		0839 5.65		0903 5.24		0916 5.93	
TU	1402 9.99	WE	1250 1.30	TH	1426 0.99	FR	1325 1.01	SU	1511 1.09	MO	1500 0.70	TU	1520 1.26	WE	1545 0.81	
	2015 5.39		1911 5.07		2028 5.28		1933 5.42		2103 4.99		2051 5.38		2105 4.70		2131 5.00	
<b>9</b>	0247 0.83	<b>24</b>	0148 1.07	<b>9</b>	0255 0.72	<b>24</b>	0209 0.54	<b>9</b>	0321 0.70	<b>24</b>	0318 0.17	<b>9</b>	0317 0.76	<b>24</b>	0348 0.35	
	0843 4.67		0741 4.53		0856 4.90		0810 5.14		0930 5.21		0926 5.93		0934 5.40		1001 6.09	
WE	1449 0.77	TH	1348 0.88	FR	1505 0.89	SA	1422 0.67	MO	1544 1.04	TU	1551 0.56	WE	1556 1.18	TH	1633 0.73	
	2057 5.52		2002 5.50		2104 5.31		2023 5.65		2135 4.93		2138 5.32		2139 4.67		2217 4.95	
<b>10</b>	0326 0.70	<b>25</b>	0237 0.66	<b>10</b>	0328 0.67	<b>25</b>	0257 0.25	<b>10</b>	0349 0.67	<b>25</b>	0402 0.12	<b>10</b>	0350 0.72	<b>25</b>	0431 0.37	
	0921 4.79		0830 4.93		0928 5.00		0856 5.51		0959 5.30		1010 6.11		1006 5.51		1043 6.14	
TH	1529 0.70	FR	1440 0.53	SA	1538 0.85	SU	1513 0.43	TU	1616 1.03	WE	1639 0.51	TH	1631 1.14	FR	1717 0.73	
	2133 5.53		2048 5.81		2136 5.27		2109 5.75		2204 4.84		2225 5.19		2213 4.63	☉	2302 4.86	
<b>11</b>	0401 0.68	<b>26</b>	0323 0.34	<b>11</b>	0357 0.66	<b>26</b>	0341 0.05	<b>11</b>	0416 0.68	<b>26</b>	0444 0.16	<b>11</b>	0422 0.70	<b>26</b>	0512 0.47	
	0954 4.84		0915 5.28		0957 5.07		0940 5.81		1027 5.35		1054 6.15		1037 5.58		1124 6.08	
FR	1603 0.70	SA	1530 0.27	SU	1609 0.86	MO	1602 0.29	WE	1648 1.07	TH	1726 0.57	FR	1706 1.13	SA	1758 0.81	
	2205 5.49		2133 6.00		2205 5.18		2154 5.73		2233 4.71	☉	2312 5.00	☉	2248 4.57		2344 4.73	
<b>12</b>	0430 0.70	<b>27</b>	0406 0.10	<b>12</b>	0423 0.67	<b>27</b>	0423 -0.04	<b>12</b>	0444 0.73	<b>27</b>	0526 0.32	<b>12</b>	0456 0.73	<b>27</b>	0551 0.65	
	1024 4.87		0959 5.55		1024 5.11		1025 6.00		1055 5.35		1138 6.06		1111 5.61		1204 5.91	
SA	1633 0.74	SU	1617 0.11	MO	1638 0.90	TU	1649 0.26	TH	1720 1.15	FR	1812 0.72	SA	1743 1.16	SU	1838 0.96	
	2235 5.41		2216 6.06		2232 5.06	☉	2240 5.58	☉	2303 4.56		2359 4.73		2325 4.50			
<b>13</b>	0457 0.73	<b>28</b>	0449 -0.03	<b>13</b>	0448 0.70	<b>28</b>	0505 -0.00	<b>13</b>	0513 0.82	<b>28</b>	0607 0.59	<b>13</b>	0532 0.80	<b>28</b>	0026 4.57	
	1051 4.88		1044 5.75		1051 5.13		1109 6.05		1125 5.31		1222 5.83		1147 5.58		0628 0.91	
SU	1701 0.81	MO	1704 0.08	TU	1707 0.98	WE	1736 0.36	FR	1753 1.26	SA	1858 0.95	SU	1823 1.21	MO	1243 5.64	
☉	2301 5.29	☉	2301 5.95	☉	2258 4.90	☉	2326 5.31	☉	2336 4.38						1917 1.15	
<b>14</b>	0522 0.77	<b>29</b>	0530 -0.04	<b>14</b>	0513 0.77	<b>29</b>	0546 0.18	<b>14</b>	0543 0.97	<b>29</b>	0046 4.43	<b>14</b>	0005 4.40	<b>29</b>	0107 4.38	
	1117 4.87		1128 5.81		1117 5.10		1154 5.95		1157 5.21		0650 0.95		0609 0.94		0706 1.24	
MO	1729 0.92	TU	1751 0.20	WE	1735 1.11	TH	1824 0.60	SA	1828 1.41	SU	1308 5.50	MO	1226 5.49	TU	1323 5.31	
	2327 5.12		2345 5.67		2325 4.69						1945 1.22		1906 1.29		1957 1.37	
<b>15</b>	0546 0.85	<b>30</b>	0611 0.11	<b>15</b>	0537 0.90	<b>30</b>	0013 4.92	<b>15</b>	0011 4.19	<b>30</b>	0136 4.14	<b>15</b>	0050 4.29	<b>30</b>	0149 4.18	
	1143 4.83		1214 5.72		1144 5.01		0628 0.50		0616 1.15		0734 1.34		0651 1.13		0745 1.58	
TU	1755 1.08	WE	1837 0.48	TH	1804 1.30	FR	1241 5.69	SU	1233 5.08	MO	1356 5.14	TU	1310 5.35	WE	1403 4.97	
	2353 4.89				2353 4.44		1913 0.93		1909 1.57		2037 1.46		1954 1.37		2041 1.57	
				<b>31</b>	0104 4.48									<b>31</b>	0238 4.01	
					0712 0.92										0832 1.93	
					SA	1331 5.33									TH	1451 4.63
					2007 1.28										2133 1.72	

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# BUGATTI REEF – QUEENSLAND

LAT 20° 5' LONG 150° 18'  
Times and Heights of High and Low Waters

# 2015

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> 0055 0.41		<b>16</b> 0012 0.63		<b>1</b> 0208 0.52		<b>16</b> 0118 0.42		<b>1</b> 0118 0.73		<b>16</b> 0006 0.70		<b>1</b> 0216 0.75		<b>16</b> 0135 0.53	
TH 0749 2.91		FR 0712 2.54		SU 0859 3.08		MO 0811 3.10		SU 0802 2.94		MO 0659 2.89		WE 0842 2.80		TH 0808 3.09	
TH 1349 0.90		FR 1312 1.05		SU 1505 0.80		MO 1414 0.68		SU 1416 0.80		MO 1309 0.76		WE 1445 0.64		TH 1407 0.33	
1948 2.30		1859 2.10		2105 2.27		2020 2.43		2017 2.32		1918 2.34		2104 2.53		2039 2.92	
<b>2</b> 0137 0.37		<b>17</b> 0055 0.47		<b>2</b> 0243 0.51		<b>17</b> 0204 0.28		<b>2</b> 0158 0.66		<b>17</b> 0100 0.52		<b>2</b> 0248 0.74		<b>17</b> 0224 0.47	
0833 3.04		0753 2.79		0933 3.07		0853 3.30		0839 2.99		0747 3.11		0910 2.75		0853 3.09	
FR 1434 0.84		SA 1353 0.89		MO 1538 0.79		TU 1455 0.54		MO 1446 0.74		TU 1351 0.57		TH 1509 0.63		FR 1447 0.26	
2033 2.26		1949 2.19		2140 2.27		2106 2.58		2053 2.38		2007 2.58		2131 2.57		2124 3.08	
<b>3</b> 0215 0.37		<b>18</b> 0137 0.34		<b>3</b> 0317 0.53		<b>18</b> 0250 0.20		<b>3</b> 0232 0.62		<b>18</b> 0149 0.38		<b>3</b> 0317 0.75		<b>18</b> 0310 0.48	
0912 3.10		0833 3.02		1004 3.03		0936 3.42		0911 2.98		0832 3.27		0935 2.67		0936 3.00	
SA 1514 0.82		SU 1434 0.75		TU 1608 0.79		WE 1536 0.46		TU 1514 0.72		WE 1432 0.43		FR 1531 0.64		SA 1527 0.25	
2114 2.21		2034 2.29		2211 2.25		2151 2.69		2124 2.42		2053 2.78		2157 2.60		2207 3.17	
<b>4</b> 0252 0.39		<b>19</b> 0220 0.23		<b>4</b> 0348 0.57		<b>19</b> 0335 0.20		<b>4</b> 0305 0.63		<b>19</b> 0236 0.31		<b>4</b> 0343 0.79		<b>19</b> 0357 0.55	
0949 3.10		0914 3.21		1032 2.95		1017 3.44		0940 2.94		0914 3.34		0957 2.58		1018 2.83	
SU 1551 0.81		MO 1515 0.64		WE 1637 0.81		TH 1619 0.43		WE 1541 0.72		TH 1512 0.35		SA 1552 0.65		SU 1606 0.30	
2151 2.15		2119 2.37		2239 2.23		2235 2.76		2152 2.44		2137 2.93		2221 2.61		2251 3.18	
<b>5</b> 0327 0.44		<b>20</b> 0302 0.17		<b>5</b> 0417 0.64		<b>20</b> 0420 0.28		<b>5</b> 0333 0.66		<b>20</b> 0322 0.31		<b>5</b> 0410 0.84		<b>20</b> 0445 0.66	
1023 3.05		0954 3.34		1058 2.85		1059 3.35		1006 2.86		0957 3.30		1021 2.48		1100 2.62	
MO 1628 0.82		TU 1557 0.57		TH 1705 0.84		FR 1702 0.45		TH 1606 0.73		FR 1552 0.32		SU 1613 0.65		MO 1647 0.40	
2226 2.10		2204 2.43		2306 2.20		2322 2.76		2218 2.44		2221 3.02		2247 2.62		2335 3.10	
<b>6</b> 0401 0.51		<b>21</b> 0346 0.17		<b>6</b> 0444 0.73		<b>21</b> 0508 0.44		<b>6</b> 0400 0.71		<b>21</b> 0408 0.39		<b>6</b> 0438 0.89		<b>21</b> 0535 0.81	
1056 2.96		1036 3.39		1122 2.74		1142 3.16		1028 2.76		1038 3.16		1046 2.37		1143 2.37	
TU 1703 0.85		WE 1642 0.54		FR 1731 0.87		SA 1748 0.51		FR 1628 0.76		SA 1634 0.36		MO 1638 0.67		TU 1729 0.56	
2259 2.04		2249 2.45		2332 2.16				2242 2.43		2306 3.03		2317 2.60			
<b>7</b> 0433 0.60		<b>22</b> 0432 0.24		<b>7</b> 0512 0.84		<b>22</b> 0011 2.71		<b>7</b> 0426 0.78		<b>22</b> 0456 0.54		<b>7</b> 0510 0.96		<b>22</b> 0023 2.95	
1126 2.85		1119 3.35		1144 2.61		0558 0.66		1049 2.65		1120 2.94		1115 2.25		0633 0.96	
WE 1739 0.89		TH 1729 0.55		SA 1758 0.91		SU 1837 0.63		SA 1650 0.78		SU 1716 0.45		TU 1707 0.69		WE 1231 2.13	
2330 1.98		2337 2.44						2308 2.41		2353 2.96		2352 2.57		1814 0.76	
<b>8</b> 0504 0.71		<b>23</b> 0520 0.39		<b>8</b> 0002 2.11		<b>23</b> 0107 2.61		<b>8</b> 0453 0.86		<b>23</b> 0546 0.74		<b>8</b> 0550 1.04		<b>23</b> 0116 2.77	
1155 2.72		1204 3.21		0542 0.97		0657 0.93		1112 2.53		1204 2.65		1150 2.11		0745 1.09	
TH 1816 0.93		FR 1820 0.60		SU 1210 2.46		MO 1320 2.57		SU 1713 0.80		MO 1800 0.59		WE 1741 0.75		TH 1332 1.91	
				1828 0.94		1934 0.77		2336 2.38						1910 0.97	
<b>9</b> 0002 1.91		<b>24</b> 0029 2.38		<b>9</b> 0041 2.06		<b>24</b> 0217 2.50		<b>9</b> 0523 0.96		<b>24</b> 0044 2.83		<b>9</b> 0036 2.51		<b>24</b> 0222 2.59	
0536 0.85		0612 0.61		0619 1.13		0816 1.17		1138 2.39		0645 0.97		0640 1.13		0924 1.13	
FR 1224 2.58		SA 1253 2.99		MO 1243 2.29		TU 1427 2.26		MO 1740 0.83		TU 1254 2.35		TH 1235 1.96		FR 1501 1.78	
1855 0.98		1917 0.67		1908 0.98		2045 0.89				1851 0.78		1827 0.85		2028 1.15	
<b>10</b> 0041 1.84		<b>25</b> 0132 2.32		<b>10</b> 0135 2.00		<b>25</b> 0345 2.47		<b>10</b> 0011 2.33		<b>25</b> 0145 2.67		<b>10</b> 0134 2.44		<b>25</b> 0341 2.48	
0611 1.01		0713 0.87		0710 1.29		1009 1.27		0559 1.08		0802 1.16		0754 1.21		1055 1.06	
SA 1256 2.42		SU 1349 2.72		TU 1326 2.12		WE 1558 2.06		TU 1209 2.23		WE 1358 2.06		FR 1342 1.82		SA 1648 1.82	
1942 1.02		2022 0.73		2001 1.01		2210 0.95		1814 0.88		1955 0.97		1931 0.95		2208 1.21	
<b>11</b> 0135 1.79		<b>26</b> 0250 2.29		<b>11</b> 0254 2.00		<b>26</b> 0516 2.55		<b>11</b> 0056 2.26		<b>26</b> 0305 2.54		<b>11</b> 0253 2.43		<b>26</b> 0501 2.46	
0655 1.18		0833 1.11		0834 1.41		1155 1.18		0647 1.22		0956 1.23		0933 1.18		1156 0.93	
SU 1337 2.26		MO 1458 2.45		WE 1436 1.96		TH 1734 2.03		WE 1250 2.06		TH 1534 1.89		SA 1521 1.78		SU 1805 1.98	
2036 1.03		2133 0.77		2113 1.00		2330 0.91		1859 0.94		2124 1.10		2101 1.00		2332 1.16	
<b>12</b> 0252 1.78		<b>27</b> 0421 2.37		<b>12</b> 0425 2.10		<b>27</b> 0627 2.70		<b>12</b> 0201 2.21		<b>27</b> 0436 2.52		<b>12</b> 0417 2.51		<b>27</b> 0605 2.50	
0803 1.34		1016 1.23		1025 1.41		1300 1.03		0802 1.33		1137 1.13		1058 1.03		1239 0.80	
MO 1434 2.12		TU 1621 2.26		TH 1608 1.90		FR 1845 2.12		TH 1355 1.89		FR 1720 1.92		SU 1656 1.91		MO 1857 2.16	
2138 0.99		2247 0.75		2229 0.92				2008 1.01		2259 1.10		2232 0.94			
<b>13</b> 0421 1.87		<b>28</b> 0543 2.54		<b>13</b> 0541 2.31		<b>28</b> 0031 0.82		<b>13</b> 0329 2.24		<b>28</b> 0553 2.59		<b>13</b> 0530 2.68		<b>28</b> 0031 1.06	
0943 1.42		1155 1.18		1151 1.26		0720 2.84		0950 1.34		1237 0.98		1157 0.83		0654 2.55	
TU 1543 2.02		WE 1743 2.18		FR 1732 1.95		SA 1343 0.89		FR 1538 1.82		SA 1833 2.07		MO 1807 2.15		TU 1313 0.69	
2236 0.90		2351 0.69		2334 0.77		1937 2.22		2138 1.00				2344 0.80		1937 2.32	
<b>14</b> 0534 2.06		<b>29</b> 0648 2.74		<b>14</b> 0638 2.58		<b>29</b> 0010 1.00		<b>14</b> 0456 2.39		<b>29</b> 0650 2.70		<b>14</b> 0630 2.87		<b>29</b> 0116 0.96	
1119 1.36		1304 1.05		1247 1.05		0650 2.70		1123 1.19		1317 0.84		1244 0.63		0732 2.57	
WE 1656 1.99		TH 1850 2.19		SA 1838 2.08		SU 1317 0.84		SA 1712 1.91		SU 1922 2.23		TU 1903 2.43		WE 1343 0.62	
2327 0.77						1922 2.23		2301 0.88						2010 2.45	
<b>15</b> 0628 2.29		<b>30</b> 0043 0.61		<b>15</b> 0029 0.59		<b>30</b> 0101 0.89		<b>15</b> 0604 2.63		<b>30</b> 0734 2.78		<b>15</b> 0043 0.65		<b>30</b> 0154 0.90	
1225 1.22		0739 2.91		0727 2.85		0734 2.78		1223 0.97		1349 0.74		0721 3.01		0806 2.55	
TH 1802 2.02		FR 1353 0.93		SU 1332 0.85		2001 2.36		SU 1822 2.11		MO 1349 0.74		WE 1327 0.45		TH 1410 0.57	
		1943 2.22		1932 2.25						2001 2.36		1953 2.69		2041 2.55	
		<b>31</b> 0128 0.55				<b>31</b> 0141 0.80									
		0822 3.03				0810 2.81									
		SA 1432 0.85				TU 1417 0.67									
		2027 2.25				2034 2.46									

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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





# BUGATTI REEF – QUEENSLAND

LAT 20° 5' LONG 150° 18'  
Times and Heights of High and Low Waters

# 2015

Local Time

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> 0520 0.29		<b>16</b> 0501 0.62		<b>1</b> 0534 0.33		<b>16</b> 0449 0.56		<b>1</b> 0109 1.82		<b>16</b> 0002 1.74		<b>1</b> 0152 1.71		<b>16</b> 0052 1.83	
1145 2.58		1127 2.21		1219 2.74		1136 2.37		0647 0.74		0542 0.63		0714 0.97		0626 0.69	
TU 1732 0.41		WE 1715 0.82		TH 1819 0.70		FR 1735 0.93		SU 1357 2.57		MO 1250 2.52		TU 1422 2.49		WE 1328 2.72	
		2325 2.14				2330 1.87		2102 0.94		1918 0.97		2133 0.92		2009 0.83	
<b>2</b> 0002 2.76		<b>17</b> 0526 0.66		<b>2</b> 0030 2.23		<b>17</b> 0520 0.62		<b>2</b> 0233 1.68		<b>17</b> 0102 1.65		<b>2</b> 0325 1.70		<b>17</b> 0205 1.82	
0608 0.38		1159 2.15		0624 0.51		1216 2.31		0802 0.94		0638 0.76		0835 1.14		0733 0.86	
WE 1238 2.51		TH 1749 0.94		FR 1318 2.60		SA 1821 1.01		MO 1515 2.45		TU 1352 2.47		WE 1532 2.37		TH 1434 2.63	
1829 0.64		2353 1.98		1932 0.89				2232 0.88		2041 0.94		2241 0.85		2121 0.76	
<b>3</b> 0052 2.47		<b>18</b> 0556 0.72		<b>3</b> 0131 1.94		<b>18</b> 0011 1.73		<b>3</b> 0419 1.70		<b>18</b> 0226 1.63		<b>3</b> 0456 1.81		<b>18</b> 0332 1.92	
0702 0.51		1240 2.08		0725 2.70		0600 0.71		0940 1.04		0753 0.87		1010 1.21		0858 0.98	
TH 1342 2.42		FR 1834 1.06		SA 1432 2.47		SU 1309 2.25		TU 1635 2.41		WE 1506 2.47		TH 1643 2.30		FR 1545 2.57	
1941 0.88				2123 0.98		1929 1.08		☉ 2336 0.76		2159 0.82		☉ 2334 0.75		2226 0.64	
<b>4</b> 0154 2.16		<b>19</b> 0031 1.81		<b>4</b> 0300 1.76		<b>19</b> 0111 1.60		<b>4</b> 0541 1.86		<b>19</b> 0359 1.76		<b>4</b> 0604 1.99		<b>19</b> 0455 2.13	
0807 0.64		0637 0.79		0849 0.85		0657 0.81		1108 1.02		0924 0.91		1131 1.17		1026 1.01	
FR 1502 2.36		SA 1338 2.01		SU 1559 2.42		MO 1420 2.22		WE 1741 2.44		TH 1620 2.53		FR 1743 2.28		SA 1656 2.53	
2123 1.02		1944 1.17		2306 0.90		2107 1.06				☉ 2300 0.64				☉ 2322 0.50	
<b>5</b> 0317 1.93		<b>20</b> 0129 1.65		<b>5</b> 0446 1.75		<b>20</b> 0246 1.55		<b>5</b> 0021 0.63		<b>20</b> 0516 2.00		<b>5</b> 0017 0.64		<b>20</b> 0603 2.41	
0928 0.72		0738 0.86		1025 0.89		0822 0.89		0637 2.05		1047 0.86		0653 2.18		1144 0.95	
SA 1633 2.39		SU 1501 2.01		MO 1720 2.47		TU 1543 2.28		TH 1212 0.93		FR 1725 2.61		SA 1231 1.08		SU 1801 2.51	
☉ 2313 0.98		2131 1.17		☉ 2233 0.92				1833 2.47		2350 0.45		1833 2.27			
<b>6</b> 0454 1.86		<b>21</b> 0308 1.57		<b>6</b> 0011 0.76		<b>21</b> 0424 1.67		<b>6</b> 0056 0.52		<b>21</b> 0618 2.29		<b>6</b> 0052 0.55		<b>21</b> 0013 0.36	
1052 0.72		0907 0.88		0605 1.89		0957 0.85		0720 2.23		1155 0.75		0732 2.35		0701 2.69	
SU 1751 2.52		MO 1627 2.13		TU 1143 0.82		WE 1657 2.44		FR 1259 0.84		SA 1824 2.68		SU 1318 0.99		MO 1248 0.86	
		☉ 2306 1.03		1822 2.56		☉ 2332 0.71		1916 2.48				1914 2.24		1859 2.49	
<b>7</b> 0029 0.83		<b>22</b> 0445 1.65		<b>7</b> 0055 0.62		<b>22</b> 0536 1.90		<b>7</b> 0127 0.44		<b>22</b> 0035 0.28		<b>7</b> 0123 0.48		<b>22</b> 0059 0.26	
0614 1.93		1033 0.78		0659 2.06		1112 0.72		0756 2.37		0711 2.59		0806 2.49		0751 2.94	
MO 1201 0.64		TU 1736 2.34		WE 1238 0.72		TH 1758 2.62		SA 1339 0.77		SU 1254 0.64		MO 1356 0.92		TU 1343 0.77	
1851 2.66				1910 2.64				1951 2.45		1916 2.71		1949 2.20		1952 2.45	
<b>8</b> 0118 0.69		<b>23</b> 0003 0.83		<b>8</b> 0129 0.52		<b>23</b> 0018 0.50		<b>8</b> 0156 0.40		<b>23</b> 0117 0.15		<b>8</b> 0149 0.44		<b>23</b> 0142 0.20	
0711 2.04		0556 1.84		0742 2.22		0635 2.18		0829 2.48		0800 2.85		0836 2.60		0838 3.13	
TU 1254 0.55		WE 1139 0.61		TH 1321 0.63		FR 1213 0.56		SU 1415 0.74		MO 1346 0.57		TU 1431 0.88		WE 1432 0.72	
1938 2.77		1831 2.58		1950 2.67		1850 2.78		2023 2.39		2005 2.68		2020 2.15		2040 2.40	
<b>9</b> 0155 0.59		<b>24</b> 0046 0.61		<b>9</b> 0158 0.45		<b>24</b> 0059 0.31		<b>9</b> 0221 0.39		<b>24</b> 0158 0.08		<b>9</b> 0214 0.41		<b>24</b> 0224 0.18	
0756 2.15		0652 2.07		0817 2.33		0725 2.45		0858 2.55		0846 3.05		0903 2.68		0921 3.23	
WE 1337 0.48		TH 1234 0.43		FR 1358 0.59		SA 1306 0.42		MO 1447 0.74		TU 1435 0.54		WE 1501 0.85		TH 1519 0.71	
2018 2.82		1920 2.80		2024 2.65		1939 2.89		2051 2.30		2051 2.59		2050 2.10		2125 2.33	
<b>10</b> 0226 0.53		<b>25</b> 0126 0.42		<b>10</b> 0227 0.42		<b>25</b> 0140 0.16		<b>10</b> 0245 0.39		<b>25</b> 0239 0.06		<b>10</b> 0239 0.39		<b>25</b> 0305 0.22	
0835 2.23		0741 2.31		0850 2.40		0813 2.70		0926 2.59		0931 3.17		0931 2.75		1003 3.25	
TH 1415 0.45		FR 1323 0.27		SA 1432 0.58		SU 1356 0.34		TU 1517 0.76		WE 1523 0.56		TH 1531 0.84		FR 1604 0.72	
2053 2.81		2005 2.98		2055 2.58		2024 2.91		2117 2.20		2136 2.47		2121 2.06		☉ 2208 2.25	
<b>11</b> 0255 0.51		<b>26</b> 0206 0.26		<b>11</b> 0253 0.42		<b>26</b> 0220 0.06		<b>11</b> 0307 0.41		<b>26</b> 0320 0.11		<b>11</b> 0306 0.38		<b>26</b> 0345 0.30	
0909 2.28		0827 2.52		0920 2.44		0858 2.90		0951 2.61		1014 3.20		1000 2.81		1043 3.20	
FR 1448 0.45		SA 1410 0.17		SU 1504 0.60		MO 1443 0.32		WE 1545 0.79		TH 1611 0.62		FR 1602 0.83		SA 1648 0.76	
2124 2.76		2048 3.07		2122 2.49		2109 2.85		2142 2.11		☉ 2220 2.32		☉ 2154 2.03		2249 2.16	
<b>12</b> 0324 0.51		<b>27</b> 0246 0.16		<b>12</b> 0317 0.44		<b>27</b> 0300 0.04		<b>12</b> 0329 0.42		<b>27</b> 0401 0.21		<b>12</b> 0337 0.38		<b>27</b> 0425 0.42	
0940 2.30		0912 2.70		0947 2.46		0942 3.03		1018 2.63		1058 3.15		1032 2.85		1122 3.09	
SA 1520 0.48		SU 1456 0.15		MO 1533 0.64		TU 1531 0.37		TH 1615 0.82		FR 1701 0.70		SA 1637 0.82		SU 1733 0.81	
2153 2.67		2131 3.07		2147 2.37		☉ 2152 2.71		☉ 2210 2.02		2304 2.15		2230 1.99		2331 2.06	
<b>13</b> 0350 0.52		<b>28</b> 0326 0.11		<b>13</b> 0339 0.46		<b>28</b> 0341 0.07		<b>13</b> 0355 0.44		<b>28</b> 0443 0.36		<b>13</b> 0411 0.40		<b>28</b> 0506 0.57	
1009 2.30		0956 2.82		1012 2.45		1027 3.07		1047 2.63		1142 3.03		1108 2.87		1202 2.93	
SU 1550 0.54		MO 1543 0.19		TU 1600 0.71		WE 1619 0.47		FR 1648 0.86		SA 1754 0.80		SU 1717 0.82		MO 1821 0.87	
☉ 2218 2.56		☉ 2213 2.97		☉ 2209 2.25		2235 2.52		2242 1.93		2351 1.98		2310 1.94			
<b>14</b> 0416 0.55		<b>29</b> 0408 0.12		<b>14</b> 0400 0.49		<b>29</b> 0423 0.17		<b>14</b> 0425 0.48		<b>29</b> 0527 0.54		<b>14</b> 0450 0.46		<b>29</b> 0015 1.95	
1035 2.28		1041 2.87		1037 2.44		1112 3.03		1122 2.61		1228 2.86		1148 2.85		0546 0.75	
MO 1618 0.62		TU 1630 0.31		WE 1628 0.77		TH 1710 0.61		SA 1727 0.90		SU 1856 0.88		MO 1804 0.84		TU 1243 2.74	
2240 2.42		2256 2.78		2232 2.13		2320 2.29		2318 1.84				2356 1.89		1915 0.93	
<b>15</b> 0438 0.59		<b>30</b> 0450 0.20		<b>15</b> 0423 0.52		<b>30</b> 0506 0.32		<b>15</b> 0500 0.54		<b>30</b> 0043 1.82		<b>15</b> 0534 0.55		<b>30</b> 0106 1.85	
1101 2.25		1128 2.84		1105 2.42		1200 2.92		1201 2.57		0615 0.75		1234 2.80		0632 0.95	
TU 1646 0.71		WE 1721 0.49		TH 1659 0.84		FR 1807 0.76		SU 1814 0.94		MO 1321 2.67		TU 1901 0.85		WE 1328 2.54	
2302 2.29		2340 2.52		2258 2.00						2013 0.93				2017 0.97	
				<b>31</b> 0009 2.04										<b>31</b> 0213 1.79	
				0553 0.52										0728 1.16	
				SA 1253 2.75										TH 1420 2.35	
				1921 0.89										2123 0.97	

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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

# AUSTRALIA, EAST COAST – SHUTE HARBOUR

LAT 20° 17' S LONG 148° 47' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0146 0.38	<b>16</b>	0059 0.75
	0821 3.69		0747 3.32
TH	1440 0.89	FR	1403 1.18
	2029 2.96		1936 2.78
<b>2</b>	0230 0.37	<b>17</b>	0142 0.59
	0906 3.81		0829 3.59
FR	1527 0.84	SA	1448 1.00
	2114 2.89		2022 2.86
<b>3</b>	0309 0.39	<b>18</b>	0221 0.43
	0946 3.85		0910 3.82
SA	1608 0.84	SU	1530 0.86
	2154 2.81		2108 2.93
<b>4</b>	0345 0.43	<b>19</b>	0301 0.30
	1023 3.84		0951 4.01
SU	1645 0.87	MO	1611 0.73
	2230 2.74		2154 3.00
<b>5</b>	0418 0.50	<b>20</b>	0343 0.21
	1056 3.98		1033 4.14
MO	1720 0.71	TU	1654 0.63
☉	2305 2.67	☉	2243 3.06
<b>6</b>	0450 0.60	<b>21</b>	0430 0.19
	1129 3.68		1116 4.19
TU	1753 0.98	WE	1737 0.57
	2337 2.60		2332 3.09
<b>7</b>	0520 0.72	<b>22</b>	0518 0.25
	1200 3.56		1200 4.12
WE	1826 1.04	TH	1823 0.57
<b>8</b>	0511 2.54	<b>23</b>	0522 3.08
	0552 0.86		0608 0.42
TH	1231 3.41	FR	1245 3.94
	1900 1.11		1912 0.61
<b>9</b>	0547 2.48	<b>24</b>	0515 3.04
	0627 1.04		0701 0.66
FR	1304 3.24	SA	1333 3.67
	1938 1.17		2006 0.69
<b>10</b>	0529 2.41	<b>25</b>	0515 2.98
	0707 1.24		0801 0.95
SA	1340 3.05	SU	1428 3.36
	2023 1.22		2108 0.76
<b>11</b>	0521 2.36	<b>26</b>	0528 2.97
	0759 1.45		0921 1.20
SU	1424 2.85	MO	1539 3.07
	2119 1.25		2218 0.79
<b>12</b>	0532 2.36	<b>27</b>	0449 3.06
	0910 1.62		1056 1.30
MO	1525 2.69	TU	1703 2.89
	2222 1.20	☉	2328 0.76
<b>13</b>	0455 2.49	<b>28</b>	0607 3.26
	1039 1.66		1228 1.22
TU	1639 2.61	WE	1823 2.84
☉	2321 1.09		
<b>14</b>	0605 2.73	<b>29</b>	0035 0.68
	1204 1.56		0714 3.50
WE	1748 2.63	TH	1341 1.05
			1931 2.87
<b>15</b>	0013 0.93	<b>30</b>	0133 0.59
	0700 3.03		0809 3.69
TH	1311 1.37	FR	1435 0.91
	1845 2.70		2024 2.91
<b>31</b>	0221 0.54		
	0854 3.80		
	SA 1519 0.84		
	2109 2.92		

## FEBRUARY

Time	m	Time	m
<b>1</b>	0300 0.53	<b>16</b>	0201 0.51
	0933 3.82		0847 3.90
SU	1556 0.83	MO	1509 0.75
	2145 2.90		2055 3.08
<b>2</b>	0334 0.56	<b>17</b>	0246 0.34
	1006 3.80		0930 4.09
MO	1628 0.87	TU	1550 0.60
	2217 2.87		2143 3.23
<b>3</b>	0404 0.60	<b>18</b>	0331 0.22
	1037 3.74		1013 4.21
TU	1656 0.91	WE	1630 0.48
	2247 2.84		2229 3.35
<b>4</b>	0432 0.66	<b>19</b>	0418 0.19
	1106 3.66		1056 4.22
WE	1723 0.95	TH	1712 0.41
☉	2315 2.82	☉	2316 3.43
<b>5</b>	0501 0.74	<b>20</b>	0506 0.26
	1134 3.56		1139 4.10
TH	1749 0.99	FR	1755 0.42
	2344 2.80		
<b>6</b>	0530 0.86	<b>21</b>	0004 3.44
	1201 3.42		0556 0.44
FR	1817 1.04	SA	1224 3.86
			1840 0.51
<b>7</b>	0016 2.75	<b>22</b>	0054 3.38
	0602 1.02		0649 0.71
SA	1230 3.26	SU	1309 3.53
	1848 1.11		1928 0.66
<b>8</b>	0050 2.69	<b>23</b>	0148 3.28
	0635 1.21		0748 1.01
SU	1259 3.06	MO	1401 3.15
	1921 1.19		2024 0.84
<b>9</b>	0130 2.63	<b>24</b>	0255 3.17
	0714 1.41		0908 1.27
MO	1332 2.85	TU	1511 2.82
	2001 1.26		2136 0.98
<b>10</b>	0220 2.57	<b>25</b>	0418 3.15
	0812 1.60		1045 1.35
TU	1416 2.64	WE	1646 2.64
	2056 1.31		2257 1.01
<b>11</b>	0332 2.58	<b>26</b>	0541 3.26
	0939 1.71		1217 1.24
WE	1529 2.49	TH	1813 2.67
	2210 1.28	☉	
<b>12</b>	0501 2.74	<b>27</b>	0013 0.94
	1119 1.64		0653 3.45
TH	1702 2.48	FR	1328 1.03
☉	2322 1.14		1923 2.80
<b>13</b>	0614 3.02	<b>28</b>	0117 0.83
	1240 1.42		0749 3.61
FR	1815 2.60	SA	1419 0.87
			2015 2.93
<b>14</b>	0023 0.93	<b>29</b>	0023 0.93
	0713 3.34		0713 3.34
SA	1339 1.17		1339 1.17
	1916 2.76		
<b>15</b>	0115 0.71	<b>30</b>	0115 0.71
	0802 3.65		0802 3.65
SU	1427 0.94		1427 0.94
	2008 2.93		2008 2.93

## MARCH

Time	m	Time	m
<b>1</b>	0206 0.74	<b>16</b>	0050 0.83
	0834 3.71		0732 3.67
SU	1500 0.80	MO	1402 0.80
	2056 3.01		1954 3.03
<b>2</b>	0246 0.70	<b>17</b>	0142 0.61
	0911 3.72		0821 3.89
MO	1533 0.79	TU	1445 0.60
	2130 3.03		2043 3.26
<b>3</b>	0319 0.70	<b>18</b>	0230 0.44
	0943 3.68		0906 4.03
TU	1602 0.82	WE	1525 0.45
	2159 3.04		2128 3.45
<b>4</b>	0347 0.72	<b>19</b>	0317 0.33
	1011 3.62		0950 4.08
WE	1626 0.85	TH	1604 0.33
	2225 3.05		2214 3.62
<b>5</b>	0414 0.76	<b>20</b>	0405 0.30
	1038 3.55		1033 4.03
TH	1649 0.87	FR	1644 0.28
	2252 3.06	☉	2300 3.72
<b>6</b>	0442 0.83	<b>21</b>	0454 0.38
	1105 3.45		1117 3.87
FR	1713 0.90	SA	1726 0.32
☉	2320 3.06		2346 3.74
<b>7</b>	0512 0.92	<b>22</b>	0546 0.55
	1132 3.32		1201 3.59
SA	1739 0.94	SU	1808 0.44
	2350 3.03		
<b>8</b>	0543 1.06	<b>23</b>	0033 3.67
	1158 3.15		0638 0.79
SU	1803 1.01	MO	1246 3.25
			1852 0.64
<b>9</b>	0021 2.99	<b>24</b>	0123 3.52
	0614 1.22		0739 1.06
MO	1224 2.96	TU	1337 2.88
	1827 1.08		1942 0.88
<b>10</b>	0055 2.93	<b>25</b>	0222 3.34
	0649 1.38		0858 1.26
TU	1251 2.76	WE	1446 2.57
	1854 1.17		2049 1.11
<b>11</b>	0137 2.86	<b>26</b>	0343 3.21
	0741 1.54		1029 1.31
WE	1332 2.57	TH	1626 2.44
	1940 1.26		2218 1.23
<b>12</b>	0234 2.82	<b>27</b>	0506 3.22
	0902 1.63		1154 1.19
TH	1441 2.41	FR	1755 2.53
	2058 1.32	☉	2343 1.19
<b>13</b>	0401 2.87	<b>28</b>	0620 3.32
	1043 1.57		1301 1.00
FR	1625 2.38	SA	1904 2.73
	2232 1.26		
<b>14</b>	0528 3.09	<b>29</b>	0052 1.07
	1209 1.34		0718 3.44
SA	1752 2.55	SU	1350 0.85
☉	2349 1.07		1954 2.92
<b>15</b>	0636 3.38	<b>30</b>	0143 0.95
	1312 1.05		0803 3.52
SU	1859 2.79	MO	1429 0.76
			2034 3.05
<b>31</b>	0224 0.88		
	0841 3.53		
	TU 1501 0.74		
	2107 3.13		

## APRIL

Time	m	Time	m
<b>1</b>	0257 0.86	<b>16</b>	0217 0.58
	0912 3.49		0841 3.82
WE	1528 0.75	TH	1459 0.32
	2136 3.18		2115 3.62
<b>2</b>	0327 0.86	<b>17</b>	0307 0.50
	0940 3.43		0926 3.79
TH	1552 0.76	FR	1538 0.24
	2203 3.22		2159 3.80
<b>3</b>	0355 0.88	<b>18</b>	0356 0.49
	1008 3.35		1011 3.68
FR	1615 0.77	SA	1618 0.21
	2230 3.26		2244 3.91
<b>4</b>	0425 0.93	<b>19</b>	0446 0.54
	1035 3.24		1056 3.49
SA	1638 0.78	SU	1658 0.27
☉	2258 3.28	☉	2328 3.93
<b>5</b>	0456 1.00	<b>20</b>	0536 0.67
	1102 3.11		1141 3.24
SU	1701 0.81	MO	1741 0.41
	2328 3.28		
<b>6</b>	0529 1.10	<b>21</b>	0013 3.84
	1129 2.96		0630 0.85
MO	1723 0.86	TU	1226 2.94
	2359 3.26		1823 0.63
<b>7</b>	0602 1.21	<b>22</b>	0059 3.66
	1156 2.80		0729 1.04
TU	1746 0.93	WE	1316 2.65
			1908 0.88
<b>8</b>	0033 3.21	<b>23</b>	0151 3.44
	0642 1.32		0842 1.18
WE	1228 2.63	TH	1421 2.41
	1815 1.01		2003 1.14
<b>9</b>	0113 3.15	<b>24</b>	0258 3.24
	0735 1.42		1001 1.22
TH	1315 2.48	FR	1555 2.32
	1902 1.12		2126 1.33
<b>10</b>	0206 3.09	<b>25</b>	0418 3.14
	0848 1.46		1114 1.14
FR	1425 2.36	SA	1720 2.41
	2015 1.24		2257 1.37
<b>11</b>	0320 3.08	<b>26</b>	0532 3.14
	1018 1.37		1219 1.00
SA	1603 2.37	SU	1831 2.61
	2152 1.25	☉	

# AUSTRALIA, EAST COAST – SHUTE HARBOUR

LAT 20° 17' S LONG 148° 47' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0305 0.99	<b>16</b>	0302 0.67	<b>1</b>	0353 1.00	<b>16</b>	0437 0.72	<b>1</b>	0515 0.48	<b>16</b>	0541 0.78
FR	0906 3.18	SA	0908 3.40	MO	0936 2.81	TU	1028 2.84	WE	1110 2.72	TH	1132 2.61
	1516 0.67	SA	1515 0.21		1533 0.54	TU	1621 0.32		1543 0.35	TH	1642 0.45
	2138 3.33		2146 3.88		2216 3.58		2258 3.90		2233 3.78	●	2318 3.69
<b>2</b>	0336 0.98	<b>17</b>	0352 0.65	<b>2</b>	0430 0.97	<b>17</b>	0521 0.75	<b>2</b>	0454 0.78	<b>17</b>	0543 0.78
	0935 3.10		0954 3.28		1011 2.76		1110 2.72		1036 2.74		1132 2.61
SA	1540 0.66	SU	1556 0.21	TU	1602 0.51	WE	1659 0.43	TH	1623 0.31	FR	1716 0.56
	2206 3.40		2230 3.97		2251 3.65	●	2337 3.81	○	2313 3.86		2351 3.56
<b>3</b>	0409 1.00	<b>18</b>	0441 0.67	<b>3</b>	0508 0.95	<b>18</b>	0605 0.82	<b>3</b>	0536 0.72	<b>18</b>	0617 0.85
	1004 3.01		1039 3.11		1049 2.70		1152 2.61		1123 2.75		1207 2.55
SU	1604 0.66	MO	1637 0.28	WE	1635 0.51	TH	1737 0.58	FR	1707 0.32	SA	1749 0.70
	2237 3.46	●	2312 3.97	○	2327 3.69				2355 3.86		
<b>4</b>	0443 1.03	<b>19</b>	0529 0.74	<b>4</b>	0550 0.94	<b>19</b>	0015 3.65	<b>4</b>	0621 0.68	<b>19</b>	0023 3.40
	1035 2.90		1124 2.92		1132 2.65		0649 0.91		1212 2.74		0650 0.91
MO	1629 0.67	TU	1717 0.41	TH	1715 0.54	FR	1233 2.49	SA	1304 0.72	SU	1242 2.49
○	2308 3.49		2355 3.87		1814 0.76		1814 0.76		1755 0.41		1823 0.87
<b>5</b>	0519 1.07	<b>20</b>	0620 0.85	<b>5</b>	0007 3.68	<b>20</b>	0052 3.46	<b>5</b>	0038 3.79	<b>20</b>	0054 3.21
	1106 2.79		1209 2.71		0635 0.94		0734 0.99		0709 0.67		0725 0.98
TU	1654 0.70	WE	1758 0.61	FR	1219 2.59	SA	1316 2.39	SU	1304 2.72	MO	1321 2.43
	2341 3.49				1800 0.62		1852 0.96		1845 0.56		1901 1.07
<b>6</b>	0557 1.12	<b>21</b>	0038 3.70	<b>6</b>	0050 3.62	<b>21</b>	0131 3.26	<b>6</b>	0125 3.64	<b>21</b>	0129 3.01
	1141 2.67		0713 0.98		0725 0.94		0823 1.06		0802 0.67		0806 1.05
WE	1724 0.75	TH	1256 2.52	SA	1312 2.54	SU	1406 2.32	MO	1401 2.71	TU	1406 2.37
			1839 0.84		1852 0.75		1937 1.17		1942 0.75		1947 1.28
<b>7</b>	0018 3.46	<b>22</b>	0122 3.48	<b>7</b>	0139 3.53	<b>22</b>	0215 3.05	<b>7</b>	0218 3.45	<b>22</b>	0209 2.79
	0640 1.17		0813 1.08		0824 0.92		0919 1.09		0902 0.65		0855 1.10
TH	1222 2.55	FR	1351 2.36	SU	1413 2.52	MO	1511 2.29	TU	1509 2.74	WE	1507 2.34
	1802 0.83		1925 1.07		1952 0.90		2036 1.36		2051 0.95		2049 1.47
<b>8</b>	0100 3.40	<b>23</b>	0212 3.26	<b>8</b>	0238 3.43	<b>23</b>	0310 2.87	<b>8</b>	0322 3.24	<b>23</b>	0302 2.59
	0733 1.21		0920 1.13		0931 0.84		1017 1.08		1008 0.61		0954 1.10
FR	1314 2.45	SA	1505 2.28	MO	1528 2.58	TU	1628 2.34	WE	1627 2.85	TH	1626 2.39
	1853 0.95		2024 1.29		2106 1.03		2155 1.49		2216 1.08		2215 1.56
<b>9</b>	0151 3.34	<b>24</b>	0315 3.08	<b>9</b>	0347 3.34	<b>24</b>	0417 2.74	<b>9</b>	0436 3.07	<b>24</b>	0415 2.45
	0839 1.20		1024 1.11		1038 0.71		1112 1.02		1113 0.53		1056 1.04
SA	1420 2.39	SU	1625 2.31	TU	1648 2.75	WE	1740 2.49	TH	1743 3.06	FR	1742 2.57
	2001 1.08		2149 1.43		2231 1.07	●	2320 1.50	●	2346 1.08	●	2346 1.50
<b>10</b>	0256 3.29	<b>25</b>	0427 2.98	<b>10</b>	0500 3.29	<b>25</b>	0522 2.69	<b>10</b>	0551 2.97	<b>25</b>	0527 2.43
	0956 1.10		1124 1.04		1140 0.56		1202 0.92		1215 0.45		1152 0.92
SU	1546 2.44	MO	1739 2.46	WE	1801 3.00	TH	1840 2.71	FR	1853 3.31	SA	1843 2.82
	2125 1.15		2313 1.44	●	2352 1.03						
<b>11</b>	0415 3.31	<b>26</b>	0532 2.95	<b>11</b>	0607 3.26	<b>26</b>	0033 1.41	<b>11</b>	0108 0.97	<b>26</b>	0058 1.33
	1108 0.90		1217 0.93		1237 0.42		0619 2.68		0702 2.91		0628 2.48
MO	1710 2.65	TU	1840 2.66	TH	1906 3.28	FR	1245 0.81	SA	1314 0.37	SU	1240 0.77
●	2253 1.10	●					1926 2.94		1953 3.55		1931 3.09
<b>12</b>	0528 3.41	<b>27</b>	0022 1.37	<b>12</b>	0106 0.94	<b>27</b>	0130 1.27	<b>12</b>	0213 0.84	<b>27</b>	0151 1.14
	1210 0.68		0628 2.96		0711 3.21		0709 2.70		0802 2.87		0721 2.56
TU	1821 2.93	WE	1301 0.82	FR	1330 0.32	SA	1324 0.69	SU	1406 0.32	MO	1325 0.61
			1926 2.87		2003 3.54		2006 3.16		2043 3.72		2014 3.34
<b>13</b>	0007 0.97	<b>28</b>	0117 1.26	<b>13</b>	0210 0.84	<b>28</b>	0216 1.14	<b>13</b>	0305 0.74	<b>28</b>	0234 0.96
	0631 3.49		0714 2.97		0807 3.14		0751 2.71		0853 2.83		0807 2.64
WE	1304 0.49	TH	1337 0.73	SA	1417 0.26	SU	1359 0.59	MO	1451 0.31	TU	1406 0.47
	1923 3.23		2004 3.07		2051 3.74		2043 3.36		2127 3.81		2054 3.56
<b>14</b>	0112 0.84	<b>29</b>	0201 1.16	<b>14</b>	0304 0.76	<b>29</b>	0257 1.03	<b>14</b>	0350 0.70	<b>29</b>	0315 0.81
	0729 3.53		0754 2.96		0857 3.05		0832 2.71		0938 2.78		0851 2.72
TH	1352 0.34	FR	1408 0.66	SU	1500 0.24	MO	1434 0.51	TU	1530 0.32	WE	1444 0.33
	2015 3.50		2039 3.23		2136 3.87		2119 3.53		2206 3.82		2133 3.74
<b>15</b>	0210 0.73	<b>30</b>	0240 1.08	<b>15</b>	0352 0.73	<b>30</b>	0336 0.93	<b>15</b>	0430 0.70	<b>30</b>	0354 0.69
	0820 3.49		0829 2.92		0943 2.95		0912 2.71		1018 2.73		0936 2.80
FR	1435 0.25	SA	1437 0.61	MO	1540 0.26	TU	1507 0.43	WE	1607 0.37	TH	1525 0.22
	2102 3.72		2111 3.37		2218 3.92		2155 3.67		2244 3.78		2213 3.89
<b>31</b>	0317 1.03							<b>31</b>	0434 0.57		
	0902 2.87								1023 2.88		
	SU	1505 0.57							FR	1609 0.16	
	2143 3.48								○	2255 3.97	
											<b>31</b>
											0532 0.25
											1141 3.26
											MO
											1733 0.25

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – SHUTE HARBOUR

LAT 20° 17' S LONG 148° 47' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0000 3.70 0616 0.29 TU 1231 3.25 1826 0.47	<b>16</b>	0553 0.82 1213 2.80 WE 1809 1.07	<b>1</b>	0026 3.12 0632 0.39 TH 1302 3.42 1917 0.79	<b>16</b>	0534 0.83 1221 2.99 FR 1835 1.21	<b>1</b>	0206 2.34 0750 0.91 SU 1440 3.24 2140 0.98	<b>16</b>	0052 2.26 0625 0.92 MO 1329 3.17 2015 1.18	<b>1</b>	0251 2.27 0813 1.15 TU 1501 3.14 2206 0.98	<b>16</b>	0141 2.43 0716 0.92 WE 1406 3.38 2057 0.95
<b>2</b>	0047 3.41 0703 0.41 WE 1323 3.18 1923 0.74	<b>17</b>	0014 2.71 0619 0.92 TH 1247 2.73 1847 1.24	<b>2</b>	0118 2.78 0723 0.61 FR 1401 3.27 2033 0.98	<b>17</b>	0017 2.38 0600 0.92 SA 1259 2.93 1924 1.31	<b>2</b>	0336 2.26 0909 1.10 MO 1557 3.13 2251 0.91	<b>17</b>	0154 2.20 0728 1.05 TU 1427 3.12 2130 1.10	<b>2</b>	0409 2.31 0935 1.31 WE 1611 3.01 2307 0.92	<b>17</b>	0250 2.46 0825 1.06 TH 1508 3.29 2205 0.84
<b>3</b>	0137 3.06 0756 0.56 TH 1425 3.09 2036 0.99	<b>18</b>	0043 2.51 0647 1.02 FR 1326 2.66 1936 1.39	<b>3</b>	0224 2.47 0827 0.83 SA 1516 3.15 2203 1.03	<b>18</b>	0100 2.23 0640 1.04 SU 1347 2.86 2031 1.36	<b>3</b>	0456 2.35 1037 1.15 TU 1710 3.11 ☉ 2356 0.78	<b>18</b>	0314 2.24 0849 1.14 WE 1540 3.13 2242 0.91	<b>3</b>	0520 2.45 1058 1.35 TH 1717 2.96 ☉	<b>18</b>	0411 2.60 0948 1.15 FR 1621 3.23 2309 0.67
<b>4</b>	0240 2.72 0903 0.71 FR 1543 3.05 2211 1.10	<b>19</b>	0121 2.31 0728 1.12 SA 1419 2.61 2049 1.48	<b>4</b>	0359 2.33 0952 0.95 SU 1638 3.14 2324 0.93	<b>19</b>	0205 2.11 0749 1.15 MO 1454 2.84 2159 1.27	<b>4</b>	0607 2.54 1151 1.09 WE 1814 3.15	<b>19</b>	0440 2.43 1018 1.11 TH 1655 3.22 ☉ 2343 0.67	<b>4</b>	0002 0.82 0624 2.66 FR 1208 1.30 1816 2.95	<b>19</b>	0527 2.85 1113 1.13 SA 1732 3.21 ☉
<b>5</b>	0411 2.51 1023 0.77 SA 1706 3.13 ☉ 2342 1.01	<b>20</b>	0225 2.15 0838 1.20 SU 1536 2.63 2228 1.43	<b>5</b>	0525 2.41 1115 0.93 MO 1752 3.23 ☉	<b>20</b>	0337 2.12 0923 1.18 TU 1619 2.94 2317 1.05	<b>5</b>	0050 0.64 0704 2.77 TH 1252 1.00 1906 3.18	<b>20</b>	0552 2.73 1135 0.98 FR 1800 3.33	<b>5</b>	0048 0.71 0714 2.88 SA 1307 1.21 1904 2.95	<b>20</b>	0007 0.49 0636 3.16 SU 1231 1.03 1837 3.20
<b>6</b>	0539 2.51 1140 0.73 SU 1821 3.30	<b>21</b>	0404 2.12 1009 1.16 MO 1704 2.80 ☉ 2351 1.21	<b>6</b>	0034 0.75 0637 2.60 TU 1226 0.83 1854 3.34	<b>21</b>	0508 2.32 1051 1.06 WE 1732 3.15 ☉	<b>6</b>	0132 0.55 0749 2.95 FR 1340 0.91 1948 3.18	<b>21</b>	0036 0.45 0653 3.05 SA 1242 0.83 1858 3.40	<b>6</b>	0128 0.63 0755 3.07 SU 1354 1.12 1945 2.93	<b>21</b>	0102 0.35 0735 3.47 MO 1340 0.90 1937 3.17
<b>7</b>	0058 0.81 0653 2.63 MO 1249 0.62 1923 3.47	<b>22</b>	0531 2.28 1126 0.98 TU 1812 3.08	<b>7</b>	0128 0.58 0732 2.80 WE 1323 0.72 1944 3.41	<b>22</b>	0017 0.78 0615 2.61 TH 1201 0.85 1833 3.37	<b>7</b>	0208 0.50 0825 3.09 SA 1420 0.87 2024 3.13	<b>22</b>	0125 0.27 0748 3.35 SU 1342 0.70 1951 3.40	<b>7</b>	0201 0.57 0830 3.23 MO 1434 1.05 2021 2.89	<b>22</b>	0151 0.25 0826 3.72 TU 1439 0.79 2030 3.11
<b>8</b>	0155 0.63 0751 2.78 TU 1344 0.52 2013 3.58	<b>23</b>	0051 0.93 0636 2.52 WE 1227 0.74 1908 3.37	<b>8</b>	0210 0.49 0817 2.95 TH 1408 0.66 2024 3.41	<b>23</b>	0108 0.52 0712 2.91 FR 1259 0.65 1926 3.54	<b>8</b>	0238 0.49 0858 3.18 SU 1455 0.85 2055 3.06	<b>23</b>	0208 0.16 0836 3.61 MO 1436 0.62 2041 3.34	<b>8</b>	0229 0.54 0902 3.36 TU 1510 1.01 2054 2.83	<b>23</b>	0235 0.20 0913 3.91 WE 1528 0.72 2119 3.03
<b>9</b>	0240 0.53 0837 2.87 WE 1429 0.48 2054 3.59	<b>24</b>	0139 0.67 0730 2.77 TH 1319 0.52 1956 3.60	<b>9</b>	0245 0.48 0853 3.02 FR 1444 0.65 2059 3.35	<b>24</b>	0153 0.32 0803 3.19 SA 1351 0.49 2015 3.62	<b>9</b>	0304 0.50 0928 3.25 MO 1528 0.87 2124 2.96	<b>24</b>	0250 0.09 0922 3.81 TU 1528 0.57 2128 3.23	<b>9</b>	0257 0.53 0934 3.45 WE 1545 0.99 2126 2.76	<b>24</b>	0317 0.19 0957 4.01 TH 1616 0.69 2205 2.94
<b>10</b>	0317 0.53 0916 2.90 TH 1505 0.49 2128 3.54	<b>25</b>	0222 0.47 0819 2.99 FR 1406 0.35 2041 3.75	<b>10</b>	0314 0.51 0924 3.06 SA 1517 0.68 2128 3.26	<b>25</b>	0234 0.18 0850 3.42 SU 1441 0.40 2100 3.61	<b>10</b>	0328 0.52 0957 3.30 TU 1601 0.90 2153 2.85	<b>25</b>	0331 0.08 1006 3.94 WE 1618 0.57 2215 3.09	<b>10</b>	0323 0.52 1005 3.52 TH 1621 0.99 2158 2.69	<b>25</b>	0359 0.23 1039 4.04 FR 1701 0.71 ☉ 2249 2.84
<b>11</b>	0347 0.57 0948 2.90 FR 1536 0.54 2159 3.45	<b>26</b>	0302 0.31 0905 3.19 SA 1453 0.23 2125 3.82	<b>11</b>	0340 0.54 0952 3.08 SU 1546 0.72 2157 3.15	<b>26</b>	0313 0.09 0935 3.62 MO 1531 0.36 2146 3.52	<b>11</b>	0352 0.55 1026 3.33 WE 1634 0.95 2222 2.73	<b>26</b>	0413 0.12 1051 3.98 TH 1708 0.62 ☉ 2302 2.91	<b>11</b>	0350 0.52 1038 3.57 FR 1656 0.99 ☉ 2232 2.63	<b>26</b>	0440 0.32 1120 3.98 SA 1745 0.76 2334 2.73
<b>12</b>	0415 0.62 1016 2.89 SA 1605 0.60 2228 3.35	<b>27</b>	0340 0.19 0950 3.37 SU 1540 0.18 2209 3.79	<b>12</b>	0403 0.58 1020 3.10 MO 1616 0.78 2223 3.02	<b>27</b>	0352 0.05 1021 3.76 TU 1622 0.39 ☉ 2232 3.36	<b>12</b>	0416 0.59 1056 3.34 TH 1709 1.01 ☉ 2252 2.61	<b>27</b>	0456 0.24 1136 3.92 FR 1800 0.71 2351 2.71	<b>12</b>	0419 0.53 1112 3.60 SA 1734 1.00 2311 2.57	<b>27</b>	0520 0.46 1200 3.84 SU 1830 0.85
<b>13</b>	0439 0.66 1044 2.88 SU 1634 0.67 ☉ 2254 3.23	<b>28</b>	0421 0.12 1037 3.50 MO 1630 0.22 ☉ 2254 3.67	<b>13</b>	0426 0.62 1048 3.11 TU 1647 0.87 ☉ 2250 2.88	<b>28</b>	0435 0.08 1106 3.82 WE 1714 0.48 2319 3.13	<b>13</b>	0439 0.64 1129 3.33 FR 1746 1.07 2324 2.48	<b>28</b>	0541 0.43 1221 3.78 SA 1854 0.82	<b>13</b>	0453 0.57 1149 3.59 SU 1815 1.01 2355 2.51	<b>28</b>	0017 2.61 0600 0.66 MO 1240 3.64 1916 0.95
<b>14</b>	0503 0.70 1113 2.87 MO 1704 0.77 2321 3.09	<b>29</b>	0502 0.13 1123 3.56 TU 1722 0.34 2339 3.44	<b>14</b>	0449 0.67 1117 3.09 WE 1720 0.97 2317 2.72	<b>29</b>	0518 0.20 1153 3.77 TH 1809 0.64	<b>14</b>	0506 0.71 1203 3.29 SA 1827 1.14	<b>29</b>	0040 2.52 0625 0.66 SU 1308 3.57 1956 0.93	<b>14</b>	0533 0.65 1229 3.55 MO 1902 1.01	<b>29</b>	0102 2.50 0640 0.88 TU 1319 3.42 2006 1.04
<b>15</b>	0528 0.75 1142 2.85 TU 1736 0.91 2348 2.91	<b>30</b>	0546 0.22 1212 3.53 WE 1817 0.55	<b>15</b>	0513 0.74 1148 3.05 TH 1755 1.09 2346 2.55	<b>30</b>	0007 2.85 0604 0.40 FR 1241 3.63 1909 0.81	<b>15</b>	0004 2.37 0539 0.80 SU 1242 3.23 1916 1.18	<b>30</b>	0137 2.35 0713 0.91 MO 1359 3.34 2102 0.99	<b>15</b>	0044 2.46 0620 0.77 TU 1313 3.48 1954 1.01	<b>30</b>	0151 2.40 0723 1.12 WE 1402 3.19 2102 1.10
				<b>31</b>	0059 2.57 0652 0.65 SA 1335 3.44 2022 0.95					<b>31</b>	0254 2.35 0819 1.35 TH 1455 2.97 2202 1.11				

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon    ☽ First Quarter    ☽ Full Moon    ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – BOWEN

LAT 20° 01' S LONG 148° 15' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0117 0.42	<b>16</b>	0036 0.77
TH	0758 3.13	FR	0724 2.86
	1401 1.02	FR	1324 1.25
	1944 2.53		1856 2.43
<b>2</b>	0158 0.39	<b>17</b>	0113 0.61
FR	0839 3.22		0757 3.07
	1446 1.00	SA	1403 1.11
	2022 2.46		1933 2.51
<b>3</b>	0236 0.40	<b>18</b>	0152 0.45
SA	0915 3.25		0831 3.27
	1525 1.01	SU	1442 0.98
	2055 2.39		2012 2.58
<b>4</b>	0312 0.45	<b>19</b>	0233 0.32
SU	0947 3.23		0907 3.42
	1602 1.04	MO	1523 0.87
	2127 2.33		2053 2.64
<b>5</b>	0345 0.52	<b>20</b>	0316 0.24
MO	1017 3.18		0945 3.53
○	1636 1.10	TU	1606 0.79
	2201 2.27	●	2136 2.67
<b>6</b>	0417 0.62	<b>21</b>	0400 0.23
TU	1047 3.10		1026 3.55
	1709 1.16	WE	1651 0.76
	2235 2.20		2223 2.65
<b>7</b>	0448 0.75	<b>22</b>	0446 0.32
WE	1118 3.00		1109 3.48
	1743 1.22	TH	1738 0.78
	2312 2.12		2315 2.59
<b>8</b>	0520 0.91	<b>23</b>	0533 0.50
TH	1150 2.88		1155 3.32
	1821 1.28	FR	1828 0.83
	2353 2.04		
<b>9</b>	0553 1.09	<b>24</b>	0014 2.50
FR	1224 2.73		0624 0.75
	1909 1.33	SA	1248 3.09
			1928 0.89
<b>10</b>	0043 1.96	<b>25</b>	0133 2.43
SA	0631 1.29		0726 1.04
	1304 2.58	SU	1356 2.84
	2024 1.35		2041 0.93
<b>11</b>	0212 1.92	<b>26</b>	0308 2.46
SU	0722 1.48		0851 1.29
	1358 2.44	MO	1520 2.63
	2141 1.30		2202 0.89
<b>12</b>	0401 2.00	<b>27</b>	0439 2.60
MO	0902 1.62		1039 1.36
	1518 2.33	TU	1644 2.51
	2235 1.20	●	2314 0.80
<b>13</b>	0515 2.18	<b>28</b>	0601 2.83
TU	1044 1.61		1209 1.27
●	1632 2.30	WE	1801 2.48
	2320 1.07		
<b>14</b>	0609 2.40	<b>29</b>	0014 0.69
WE	1151 1.52		0702 3.04
	1730 2.32	TH	1314 1.14
			1859 2.49
<b>15</b>	0000 0.92	<b>30</b>	0105 0.60
TH	0650 2.64		0751 3.19
	1242 1.39	FR	1403 1.04
	1816 2.37		1944 2.49
		<b>31</b>	0148 0.55
			0829 3.25
			SA 1443 1.00
			2020 2.48

## FEBRUARY

Time	m	Time	m
<b>1</b>	0226 0.54	<b>16</b>	0135 0.52
SU	0902 3.25		0808 3.38
	1515 1.01	MO	1424 0.88
	2048 2.47		2000 2.72
<b>2</b>	0259 0.57	<b>17</b>	0218 0.36
	0929 3.22		0844 3.54
MO	1545 1.04	TU	1505 0.73
	2116 2.45		2041 2.84
<b>3</b>	0330 0.62	<b>18</b>	0302 0.25
	0954 3.17		0922 3.62
TU	1611 1.08	WE	1546 0.63
	2144 2.44		2124 2.92
<b>4</b>	0359 0.69	<b>19</b>	0347 0.24
	1020 3.10		1002 3.60
WE	1637 1.12	TH	1628 0.59
○	2213 2.41	●	2209 2.94
<b>5</b>	0426 0.80	<b>20</b>	0431 0.34
	1045 3.01		1042 3.48
TH	1704 1.16	FR	1712 0.62
	2243 2.36		2258 2.90
<b>6</b>	0454 0.93	<b>21</b>	0517 0.55
	1111 2.90		1125 3.26
FR	1732 1.20	SA	1757 0.71
	2315 2.30		2353 2.80
<b>7</b>	0522 1.09	<b>22</b>	0607 0.84
	1138 2.77		1214 2.97
SA	1802 1.25	SU	1847 0.84
	2353 2.23		
<b>8</b>	0554 1.26	<b>23</b>	0103 2.70
	1208 2.61		0707 1.15
SU	1838 1.31	MO	1315 2.66
			1950 0.98
<b>9</b>	0038 2.17	<b>24</b>	0238 2.65
	0634 1.46		0840 1.40
MO	1244 2.44	TU	1450 2.40
	1924 1.35		2118 1.06
<b>10</b>	0158 2.13	<b>25</b>	0412 2.71
	0733 1.64		1040 1.41
TU	1335 2.28	WE	1630 2.29
	2039 1.37		2244 1.02
<b>11</b>	0400 2.22	<b>26</b>	0540 2.87
	0949 1.71		1209 1.26
WE	1519 2.17	TH	1758 2.34
	2211 1.28	●	2355 0.92
<b>12</b>	0516 2.42	<b>27</b>	0643 3.05
	1120 1.60		1309 1.10
TH	1649 2.19	FR	1857 2.44
●	2313 1.12		
<b>13</b>	0611 2.68	<b>28</b>	0050 0.82
	1219 1.43		0730 3.16
FR	1751 2.30	SA	1353 0.99
			1939 2.51
<b>14</b>	0004 0.93	<b>29</b>	0004 0.93
	0654 2.93		0654 2.93
SA	1306 1.24		1306 1.24
	1838 2.43		1838 2.43
<b>15</b>	0050 0.72	<b>30</b>	0050 0.72
	0731 3.17		0731 3.17
SU	1346 1.05		1346 1.05
	1920 2.58		1920 2.58

## MARCH

Time	m	Time	m
<b>1</b>	0133 0.74	<b>16</b>	0028 0.84
SU	0808 3.20		0702 3.23
	1426 0.96	MO	1326 0.91
	2012 2.56		1908 2.65
<b>2</b>	0210 0.71	<b>17</b>	0117 0.63
	0837 3.19		0741 3.40
MO	1454 0.96	TU	1405 0.73
	2037 2.58		1949 2.85
<b>3</b>	0241 0.72	<b>18</b>	0203 0.46
	0902 3.15		0819 3.51
TU	1519 0.98	WE	1444 0.57
	2102 2.60		2029 3.01
<b>4</b>	0310 0.76	<b>19</b>	0248 0.37
	0924 3.09		0856 3.54
WE	1541 1.01	TH	1524 0.47
	2127 2.61		2112 3.12
<b>5</b>	0338 0.81	<b>20</b>	0332 0.37
	0947 3.03		0935 3.47
TH	1604 1.02	FR	1604 0.43
	2153 2.61	●	2156 3.17
<b>6</b>	0404 0.90	<b>21</b>	0416 0.48
	1010 2.94		1015 3.30
FR	1628 1.04	SA	1645 0.48
○	2220 2.59		2244 3.14
<b>7</b>	0431 1.00	<b>22</b>	0503 0.69
	1034 2.83		1057 3.04
SA	1653 1.07	SU	1727 0.60
	2249 2.56		2336 3.05
<b>8</b>	0459 1.14	<b>23</b>	0553 0.96
	1058 2.70		1144 2.74
SU	1719 1.11	MO	1812 0.78
	2320 2.52		
<b>9</b>	0530 1.28	<b>24</b>	0040 2.92
	1125 2.56		0654 1.24
MO	1748 1.17	TU	1243 2.42
	2357 2.46		1906 0.99
<b>10</b>	0608 1.44	<b>25</b>	0206 2.81
	1158 2.40		0842 1.41
TU	1825 1.23	WE	1422 2.17
			2028 1.16
<b>11</b>	0047 2.41	<b>26</b>	0337 2.79
	0702 1.60		1034 1.36
WE	1241 2.23	TH	1612 2.12
	1916 1.31		2206 1.21
<b>12</b>	0232 2.39	<b>27</b>	0503 2.86
	0853 1.69		1153 1.20
TH	1410 2.08	FR	1746 2.23
	2041 1.34	●	2325 1.14
<b>13</b>	0418 2.52	<b>28</b>	0609 2.96
	1055 1.55		1247 1.04
FR	1618 2.10	SA	1845 2.38
	2221 1.25		
<b>14</b>	0527 2.75	<b>29</b>	0025 1.04
	1158 1.35		0657 3.03
SA	1731 2.25	SU	1327 0.94
●	2331 1.06		1926 2.51
<b>15</b>	0619 3.00	<b>30</b>	0111 0.95
	1245 1.12		0734 3.06
SU	1824 2.45	MO	1358 0.89
			1957 2.59
		<b>31</b>	0148 0.91
			0803 3.04
			TU 1424 0.89
			2022 2.65

## APRIL

Time	m	Time	m
<b>1</b>	0220 0.90	<b>16</b>	0149 0.63
	0828 3.00		0753 3.33
WE	1447 0.89	TH	1422 0.43
	2047 2.70		2022 3.10
<b>2</b>	0248 0.91	<b>17</b>	0234 0.56
	0851 2.94		0831 3.29
TH	1509 0.89	FR	1501 0.35
	2112 2.74		2104 3.23
<b>3</b>	0316 0.95	<b>18</b>	0319 0.57
	0914 2.87		0910 3.17
FR	1531 0.89	SA	1541 0.33
	2137 2.76		2147 3.29
<b>4</b>	0343 1.01	<b>19</b>	0404 0.67
	0936 2.78		0951 2.98
SA	1555 0.90	SU	1621 0.39
○	2202 2.77	●	2234 3.28
<b>5</b>	0411 1.09	<b>20</b>	0451 0.84
	0959 2.68		1035 2.74
SU	1619 0.91	MO	1701 0.52
	2229 2.77		2323 3.20
<b>6</b>	0441 1.19	<b>21</b>	0542 1.05
	1025 2.56		1122 2.47
MO	1645 0.94	TU	1744 0.72
	2259 2.75		
<b>7</b>	0515 1.29	<b>22</b>	0020 3.06
	1054 2.43		0647 1.25
TU	1714 0.99	WE	1221 2.21
	2334 2.72		1833 0.94
<b>8</b>	0556 1.41	<b>23</b>	0132 2.92
	1129 2.29		0836 1.33
WE	1750 1.06	TH	1351 2.02
			1939 1.16
<b>9</b>	0021 2.67	<b>24</b>	0253 2.82
	0653 1.51		1008 1.27
TH	1221 2.14	FR	1538 1.99
	1839 1.17		2114 1.30
<b>10</b>	0138 2.62	<b>25</b>	0410 2.78
	0840 1.55		1117 1.14
FR	1349 2.01	SA	1713 2.10
	1954 1.27		2241 1.30
<b>11</b>	0329 2.68	<b>26</b>	0519 2.80
	1030 1.39		1210 1.02
SA	1552 2.06	SU	18

# AUSTRALIA, EAST COAST – BOWEN

LAT 20° 01' S LONG 148° 15' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0224 1.06	<b>16</b>	0225 0.75	<b>1</b>	0305 1.11	<b>16</b>	0352 0.89	<b>1</b>	0429 0.64	<b>16</b>	0455 0.93	
	0817 2.74		0813 2.93		0837 2.42		0926 2.40		1003 2.51		1039 2.23	
FR	1436 0.78	SA	1442 0.30	MO	1458 0.60	TU	1547 0.37	WE	1513 0.40	TH	1609 0.49	
	2056 2.81		2101 3.26		2133 3.00		2220 3.28		2148 3.20	●	2236 3.11	
<b>2</b>	0254 1.07	<b>17</b>	0311 0.76	<b>2</b>	0339 1.09	<b>17</b>	0437 0.94	<b>2</b>	0404 0.91	<b>17</b>	0458 0.95	
	0840 2.67		0853 2.80		0909 2.38		1006 2.29		0933 2.36		1030 2.19	
SA	1500 0.76	SU	1521 0.30	TU	1530 0.57	WE	1625 0.48	TH	1554 0.37	FR	1643 0.61	
	2121 2.86		2144 3.32		2204 3.07	●	2258 3.20	○	2226 3.25		2308 3.00	
<b>3</b>	0323 1.10	<b>18</b>	0357 0.82	<b>3</b>	0417 1.08	<b>18</b>	0521 1.01	<b>3</b>	0447 0.87	<b>18</b>	0533 1.02	
	0904 2.59		0935 2.64		0945 2.33		1050 2.18		1018 2.34		1108 2.13	
SU	1525 0.74	MO	1602 0.36	WE	1605 0.56	TH	1703 0.62	FR	1637 0.39	SA	1716 0.76	
	2148 2.90	●	2228 3.32	○	2239 3.10		2336 3.08		2306 3.25		2339 2.86	
<b>4</b>	0354 1.13	<b>19</b>	0444 0.93	<b>4</b>	0459 1.08	<b>19</b>	0609 1.09	<b>4</b>	0534 0.86	<b>19</b>	0609 1.08	
	0930 2.50		1019 2.46		1028 2.27		1136 2.07		1108 2.31		1150 2.05	
MO	1552 0.74	TU	1642 0.49	TH	1645 0.60	FR	1742 0.80	SA	1722 0.48	SU	1751 0.94	
	2216 2.93	○	2312 3.24		2320 3.10				2351 3.19			
<b>5</b>	0428 1.18	<b>20</b>	0534 1.06	<b>5</b>	0548 1.10	<b>20</b>	0017 2.93	<b>5</b>	0626 0.86	<b>20</b>	0012 2.71	
	1000 2.41		1106 2.27		1117 2.20		0707 1.16		1205 2.26		0652 1.14	
TU	1621 0.75	WE	1722 0.66	FR	1729 0.68	SA	1231 1.98	SU	1812 0.63	MO	1238 1.98	
	2248 2.94				1824 1.00				1827 1.13		1827 1.13	
<b>6</b>	0506 1.23	<b>21</b>	0000 3.11	<b>6</b>	0006 3.06	<b>21</b>	0104 2.77	<b>6</b>	0042 3.07	<b>21</b>	0049 2.53	
	1036 2.31		0636 1.18		0645 1.11		0818 1.18		0727 0.86		0748 1.18	
WE	1654 0.80	TH	1200 2.09	SA	1216 2.13	SU	1344 1.91	MO	1316 2.23	TU	1350 1.93	
	2325 2.92		1807 0.87		1821 0.80		1913 1.20		1910 0.83		1913 1.34	
<b>7</b>	0552 1.30	<b>22</b>	0054 2.95	<b>7</b>	0103 2.99	<b>22</b>	0200 2.60	<b>7</b>	0145 2.91	<b>22</b>	0135 2.36	
	1120 2.19		0803 1.24		0759 1.08		0925 1.16		0836 0.82		0904 1.18	
TH	1734 0.88	FR	1312 1.96	SU	1334 2.09	MO	1512 1.92	TU	1444 2.27	WE	1526 1.96	
			1859 1.09		1923 0.95		2025 1.38		2021 1.03		2034 1.50	
<b>8</b>	0012 2.88	<b>23</b>	0201 2.80	<b>8</b>	0217 2.92	<b>23</b>	0308 2.47	<b>8</b>	0301 2.75	<b>23</b>	0246 2.21	
	0652 1.35		0922 1.21		0919 0.97		1022 1.10		0949 0.74		1006 1.12	
FR	1218 2.08	SA	1448 1.92	MO	1506 2.16	TU	1630 2.02	WE	1606 2.40	TH	1645 2.09	
	1826 1.00		2012 1.28		2040 1.07		2157 1.47		2152 1.15		2227 1.53	
<b>9</b>	0119 2.83	<b>24</b>	0311 2.69	<b>9</b>	0332 2.88	<b>24</b>	0415 2.40	<b>9</b>	0416 2.64	<b>24</b>	0411 2.13	
	0828 1.32		1028 1.13		1025 0.82		1110 1.01		1055 0.63		1056 1.03	
SA	1344 2.01	SU	1615 1.99	TU	1626 2.32	WE	1739 2.17	TH	1726 2.60	FR	1748 2.27	
	1935 1.12		2140 1.38		2207 1.12	●	2313 1.45	○	2324 1.15	●	2340 1.45	
<b>10</b>	0250 2.83	<b>25</b>	0418 2.63	<b>10</b>	0440 2.85	<b>25</b>	0512 2.36	<b>10</b>	0527 2.56	<b>25</b>	0515 2.12	
	0958 1.18		1122 1.04		1123 0.67		1151 0.92		1155 0.52		1140 0.91	
SU	1529 2.08	MO	1730 2.13	WE	1738 2.54	TH	1830 2.36	FR	1835 2.83	SA	1836 2.48	
	2103 1.17		2258 1.38	●	2329 1.09							
<b>11</b>	0406 2.90	<b>26</b>	0517 2.61	<b>11</b>	0541 2.82	<b>26</b>	0013 1.38	<b>11</b>	0038 1.06	<b>26</b>	0035 1.33	
	1100 0.98		1205 0.94		1214 0.52		0600 2.34		0629 2.50		0605 2.15	
MO	1648 2.27	TU	1825 2.31	TH	1840 2.78	FR	1226 0.83	SA	1247 0.43	SU	1220 0.79	
	2230 1.12	●			1910 2.54		1910 2.54		1931 3.03		1913 2.68	
<b>12</b>	0510 2.99	<b>27</b>	0000 1.33	<b>12</b>	0037 1.01	<b>27</b>	0100 1.29	<b>12</b>	0137 0.96	<b>27</b>	0118 1.20	
	1153 0.78		0604 2.61		0635 2.77		0638 2.34		0721 2.45		0645 2.21	
TU	1753 2.51	WE	1240 0.86	FR	1302 0.41	SA	1258 0.74	SU	1335 0.37	MO	1258 0.65	
	2345 1.01		1905 2.47		1932 2.99		1944 2.70		2017 3.16		1946 2.86	
<b>13</b>	0604 3.05	<b>28</b>	0048 1.26	<b>13</b>	0133 0.93	<b>28</b>	0139 1.21	<b>13</b>	0225 0.89	<b>28</b>	0154 1.07	
	1238 0.60		0643 2.59		0722 2.69		0712 2.33		0805 2.40		0721 2.28	
WE	1847 2.75	TH	1309 0.80	SA	1346 0.34	SU	1329 0.65	MO	1417 0.34	TU	1335 0.51	
			1939 2.62		2019 3.15		2014 2.85		2058 3.22		2017 3.04	
<b>14</b>	0045 0.89	<b>29</b>	0128 1.20	<b>14</b>	0222 0.88	<b>29</b>	0213 1.13	<b>14</b>	0307 0.86	<b>29</b>	0229 0.94	
	0650 3.07		0715 2.56		0805 2.60		0743 2.33		0843 2.35		0758 2.36	
TH	1321 0.46	FR	1336 0.74	SU	1427 0.30	MO	1401 0.56	TU	1457 0.36	WE	1415 0.38	
	1935 2.96		2010 2.74		2102 3.25		2043 2.98		2133 3.23		2051 3.19	
<b>15</b>	0137 0.80	<b>30</b>	0201 1.16	<b>15</b>	0308 0.87	<b>30</b>	0248 1.05	<b>15</b>	0347 0.87	<b>30</b>	0306 0.81	
	0732 3.02		0743 2.52		0846 2.50		0816 2.34		0918 2.30		0836 2.43	
FR	1402 0.35	SA	1403 0.69	MO	1508 0.31	TU	1435 0.47	WE	1534 0.40	TH	1457 0.27	
	2019 3.14		2037 2.84		2141 3.29		2114 3.10		2205 3.19		2126 3.31	
<b>31</b>	0234 1.13		0810 2.47							<b>31</b>	0346 0.71	
			SU	1429 0.65							0918 2.49	
				2105 2.92							FR	1540 0.21
											○	2204 3.36

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre





# AUSTRALIA, EAST COAST – ABBOT POINT

LAT 19° 51' S LONG 148° 05' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0109 0.42	<b>16</b>	0030 0.77	<b>1</b>	0219 0.51	<b>16</b>	0125 0.52	<b>1</b>	0211 0.85	<b>16</b>	0137 0.62
	0744 2.99		0717 2.74		0848 3.13		0756 3.23		0815 2.88		0739 3.19
TH	1354 1.02	FR	1317 1.25	SU	1509 0.99	MO	1417 0.87	WE	1439 0.85	TH	1413 0.43
	1932 2.44		1846 2.33		2039 2.38		1950 2.61		2035 2.58		2008 2.97
<b>2</b>	0150 0.39	<b>17</b>	0106 0.61	<b>2</b>	0251 0.54	<b>17</b>	0208 0.35	<b>2</b>	0203 0.67	<b>17</b>	0108 0.62
	0824 3.09		0747 2.94		0917 3.10		0832 3.39		0824 3.06		0729 3.25
FR	1439 0.99	SA	1355 1.12	MO	1538 1.02	TU	1457 0.73	MO	1448 0.92	TU	1357 0.72
	2010 2.37		1923 2.41		2107 2.36		2030 2.73		2027 2.47		1938 2.72
<b>3</b>	0227 0.40	<b>18</b>	0142 0.46	<b>3</b>	0321 0.59	<b>18</b>	0251 0.25	<b>3</b>	0234 0.68	<b>18</b>	0153 0.45
	0900 3.12		0819 3.13		0943 3.04		0909 3.48		0850 3.02		0806 3.37
SA	1519 1.00	SU	1434 0.99	TU	1605 1.06	WE	1538 0.63	TU	1512 0.95	WE	1436 0.57
	2044 2.31		2001 2.49		2135 2.34		2113 2.81		2052 2.49		2018 2.88
<b>4</b>	0302 0.44	<b>19</b>	0222 0.33	<b>4</b>	0349 0.68	<b>19</b>	0334 0.24	<b>4</b>	0302 0.72	<b>19</b>	0236 0.36
	0933 3.11		0853 3.29		1009 2.97		0948 3.46		0913 2.97		0842 3.40
SU	1555 1.04	MO	1515 0.88	WE	1630 1.11	TH	1619 0.60	WE	1534 0.97	TH	1514 0.47
	2117 2.24		2041 2.55	○	2204 2.29	●	2158 2.82		2117 2.50		2100 2.99
<b>5</b>	0335 0.52	<b>20</b>	0303 0.25	<b>5</b>	0416 0.79	<b>20</b>	0419 0.34	<b>5</b>	0328 0.78	<b>20</b>	0320 0.37
	1004 3.05		0931 3.39		1035 2.87		1030 3.33		0936 2.90		0921 3.33
MO	1630 1.09	TU	1558 0.81	TH	1656 1.16	FR	1703 0.63	TH	1556 1.00	FR	1554 0.44
○	2151 2.17	●	2126 2.57		2232 2.24		2247 2.77		2143 2.48	●	2145 3.03
<b>6</b>	0406 0.62	<b>21</b>	0347 0.25	<b>6</b>	0440 0.92	<b>21</b>	0506 0.55	<b>6</b>	0354 0.87	<b>21</b>	0405 0.48
	1036 2.97		1011 3.41		1101 2.75		1114 3.11		0959 2.80		1002 3.15
TU	1704 1.16	WE	1643 0.78	FR	1722 1.21	SA	1748 0.72	FR	1618 1.03	SA	1634 0.48
	2226 2.09		2213 2.54		2304 2.17		2343 2.66	○	2209 2.46		2232 3.00
<b>7</b>	0437 0.76	<b>22</b>	0432 0.33	<b>7</b>	0508 1.08	<b>22</b>	0558 0.84	<b>7</b>	0418 0.98	<b>22</b>	0452 0.69
	1108 2.86		1055 3.33		1127 2.62		1203 2.82		1023 2.69		1046 2.89
WE	1739 1.23	TH	1731 0.80	SA	1752 1.27	SU	1841 0.84	SA	1641 1.06	SU	1717 0.60
	2302 2.00		2304 2.47		2339 2.10				2237 2.42		2324 2.89
<b>8</b>	0506 0.92	<b>23</b>	0520 0.51	<b>8</b>	0539 1.26	<b>23</b>	0050 2.54	<b>8</b>	0446 1.11	<b>23</b>	0545 0.95
	1140 2.73		1142 3.17		1157 2.47		0703 1.14		1047 2.56		1134 2.58
TH	1818 1.30	FR	1823 0.85	SU	1827 1.31	MO	1304 2.50	SU	1706 1.10	MO	1804 0.77
	2342 1.91				1948 0.97				2308 2.38		
<b>9</b>	0536 1.10	<b>24</b>	0004 2.38	<b>9</b>	0025 2.03	<b>24</b>	0225 2.47	<b>9</b>	0517 1.26	<b>24</b>	0027 2.75
	1214 2.59		0614 0.77		0618 1.44		0838 1.37		1114 2.42		0652 1.22
FR	1906 1.36	SA	1236 2.94	MO	1232 2.31	TU	1438 2.24	MO	1736 1.14	TU	1233 2.26
			1924 0.91		1915 1.35		2114 1.03		2345 2.32		1903 0.97
<b>10</b>	0032 1.83	<b>25</b>	0118 2.30	<b>10</b>	0139 1.99	<b>25</b>	0411 2.55	<b>10</b>	0556 1.42	<b>25</b>	0153 2.63
	0612 1.29		0720 1.05		0720 1.62		1039 1.37		1146 2.27		0836 1.38
SA	1254 2.44	SU	1342 2.69	TU	1322 2.16	WE	1629 2.16	TU	1812 1.21	WE	1408 2.02
	2022 1.37		2037 0.93		2035 1.36		2241 0.98		1812 1.21		2025 1.12
<b>11</b>	0152 1.79	<b>26</b>	0255 2.31	<b>11</b>	0406 2.07	<b>26</b>	0538 2.73	<b>11</b>	0036 2.27	<b>26</b>	0335 2.62
	0704 1.49		0848 1.28		0938 1.70		1209 1.21		0652 1.57		1038 1.31
SU	1347 2.31	MO	1509 2.48	WE	1500 2.05	TH	1753 2.22	WE	1230 2.10	TH	1613 1.97
	2142 1.32		2157 0.88		2206 1.27	●	2351 0.87		1904 1.28		2202 1.15
<b>12</b>	0406 1.87	<b>27</b>	0435 2.46	<b>12</b>	0522 2.29	<b>27</b>	0636 2.91	<b>12</b>	0209 2.24	<b>27</b>	0503 2.71
	0853 1.63		1034 1.34		1117 1.59		1306 1.05		0851 1.66		1155 1.14
MO	1505 2.21	TU	1639 2.38	TH	1643 2.07	FR	1847 2.32	TH	1354 1.96	FR	1742 2.10
	2237 1.21	●	2309 0.78	●	2308 1.11				2035 1.31	●	2321 1.08
<b>13</b>	0524 2.06	<b>28</b>	0556 2.69	<b>13</b>	0611 2.54	<b>28</b>	0044 0.76	<b>13</b>	0419 2.37	<b>28</b>	0605 2.82
	1041 1.62		1205 1.24		1215 1.42		0721 3.02		1050 1.53		1245 0.99
TU	1625 2.18	WE	1754 2.36	FR	1745 2.17	SA	1347 0.95	FR	1608 1.96	SA	1836 2.25
●	2319 1.08				2358 0.92		1928 2.40		2216 1.22		
<b>14</b>	0611 2.29	<b>29</b>	0009 0.67	<b>14</b>	0648 2.79	<b>29</b>	0044 0.76	<b>14</b>	0526 2.60	<b>29</b>	0019 0.98
	1148 1.52		0654 2.90		1259 1.23		0721 3.02		1153 1.33		0649 2.90
WE	1723 2.21	TH	1309 1.11	SA	1831 2.31			SA	1724 2.11	SU	1322 0.90
	2355 0.93		1850 2.38					●	2324 1.03		1913 2.38
<b>15</b>	0646 2.52	<b>30</b>	0059 0.57	<b>15</b>	0043 0.71	<b>30</b>	0043 0.71	<b>15</b>	0613 2.85	<b>30</b>	0104 0.90
	1236 1.39		0739 3.05		0722 3.03		0722 3.03		1238 1.11		0723 2.92
TH	1808 2.26	FR	1358 1.02	SU	1338 1.04		1911 2.46	SU	1816 2.31	MO	1351 0.86
			1933 2.39								1944 2.47
<b>31</b>	0142 0.52							<b>31</b>	0140 0.86		
	0817 3.12								0751 2.91		
	SA 1437 0.98								TU 1417 0.85		
	2008 2.39								2010 2.53		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – ABBOT POINT

LAT 19° 51' S LONG 148° 05' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0216 1.03	<b>16</b>	0215 0.76	<b>1</b>	0256 1.10	<b>16</b>	0345 0.90	<b>1</b>	0315 0.99	<b>16</b>	0416 0.90	<b>1</b>	0420 0.67	<b>16</b>	0447 0.94
FR	0803 2.64	SA	0757 2.82	MO	0824 2.34	TU	0912 2.30	WE	0839 2.28	TH	0942 2.16	SA	0951 2.41	SU	1028 2.12
	1427 0.75	SA	1430 0.30		1446 0.58		1535 0.37		1500 0.40		1559 0.48		1611 0.26		1637 0.79
	2043 2.69		2044 3.12		2119 2.88		2204 3.13		2133 3.07		2223 2.98		2230 3.20		2249 2.62
<b>2</b>	0245 1.05	<b>17</b>	0301 0.77	<b>2</b>	0330 1.09	<b>17</b>	0430 0.94	<b>2</b>	0355 0.93	<b>17</b>	0451 0.96	<b>2</b>	0505 0.65	<b>17</b>	0514 1.00
SA	0827 2.57	SU	0838 2.70	TU	0855 2.30	WE	0955 2.19	TH	0920 2.28	FR	1019 2.09	SU	1040 2.39	MO	1101 2.05
	1449 0.73	SU	1509 0.30	TU	1516 0.55	WE	1614 0.47	TH	1539 0.37	FR	1633 0.60	SU	1656 0.38	MO	1705 0.95
	2108 2.74		2128 3.18		2149 2.94		2244 3.06		2211 3.12		2256 2.86		2314 3.08		2317 2.47
<b>3</b>	0314 1.08	<b>18</b>	0347 0.83	<b>3</b>	0408 1.08	<b>18</b>	0515 1.02	<b>3</b>	0439 0.89	<b>18</b>	0528 1.02	<b>3</b>	0553 0.68	<b>18</b>	0543 1.06
SU	0851 2.49	MO	0921 2.53	WE	0932 2.24	TH	1039 2.07	FR	1005 2.25	SA	1058 2.01	MO	1136 2.33	TU	1139 1.99
	1512 0.71	MO	1549 0.36		1550 0.55		1653 0.61		1622 0.40		1706 0.76		1747 0.57		1735 1.12
	2134 2.78		2212 3.17		2224 2.97		2324 2.94		2251 3.12		2329 2.72		2346 2.30		2346 2.30
<b>4</b>	0344 1.11	<b>19</b>	0435 0.93	<b>4</b>	0451 1.09	<b>19</b>	0605 1.10	<b>4</b>	0527 0.89	<b>19</b>	0606 1.10	<b>4</b>	0002 2.88	<b>19</b>	0616 1.12
MO	0917 2.41	TU	1006 2.34	TH	1015 2.18	FR	1127 1.96	SA	1056 2.21	SU	1139 1.93	TU	0647 0.72	WE	1224 1.92
	1538 0.71	TU	1629 0.48	TH	1629 0.59	FR	1733 0.79	SA	1708 0.49	SU	1738 0.94	TU	1241 2.27	WE	1812 1.30
	2202 2.80		2258 3.09		2305 2.97				2336 3.05				1845 0.82		
<b>5</b>	0418 1.16	<b>20</b>	0528 1.06	<b>5</b>	0540 1.11	<b>20</b>	0007 2.79	<b>5</b>	0620 0.89	<b>20</b>	0002 2.57	<b>5</b>	0100 2.64	<b>20</b>	0019 2.14
TU	0947 2.31	WE	1055 2.14	FR	1106 2.09	SA	0702 1.16	SU	1153 2.15	MO	0650 1.16	WE	0753 0.75	TH	0659 1.17
	1606 0.72	WE	1712 0.65		1713 0.67		1220 1.86		1759 0.64		1228 1.85		1406 2.25		1332 1.88
	2235 2.81		2348 2.95		2352 2.92		1814 0.99				1813 1.14		2002 1.07		1909 1.47
<b>6</b>	0457 1.22	<b>21</b>	0631 1.17	<b>6</b>	0640 1.12	<b>21</b>	0053 2.62	<b>6</b>	0028 2.93	<b>21</b>	0040 2.40	<b>6</b>	0217 2.40	<b>21</b>	0105 1.97
WE	1024 2.20	TH	1151 1.96	SA	1205 2.01	SU	0813 1.19	MO	0722 0.88	TU	0747 1.20	TH	0908 0.74	FR	0810 1.19
	1638 0.77	TH	1758 0.86	SA	1806 0.79	SU	1329 1.79	MO	1302 2.11	TU	1333 1.80	TH	1541 2.33	FR	1543 1.94
	2313 2.79						1904 1.20		1859 0.84		1857 1.34		2142 1.19		2128 1.56
<b>7</b>	0544 1.29	<b>22</b>	0043 2.80	<b>7</b>	0049 2.85	<b>22</b>	0149 2.47	<b>7</b>	0130 2.77	<b>22</b>	0125 2.23	<b>7</b>	0350 2.24	<b>22</b>	0234 1.84
TH	1109 2.09	FR	0754 1.23	SU	0754 1.09	MO	0925 1.17	TU	0831 0.84	WE	0900 1.19	FR	1023 0.68	SA	0942 1.14
	1718 0.85	FR	1300 1.83	SU	1320 1.97	MO	1501 1.79	TU	1426 2.13	WE	1519 1.83	FR	1710 2.52	SA	1702 2.12
			1853 1.07		1911 0.94		2018 1.37		2014 1.03		2022 1.50		2324 1.14		2313 1.45
<b>8</b>	0001 2.75	<b>23</b>	0150 2.65	<b>8</b>	0200 2.78	<b>23</b>	0257 2.35	<b>8</b>	0245 2.62	<b>23</b>	0230 2.09	<b>8</b>	0515 2.20	<b>23</b>	0428 1.84
FR	0647 1.34	SA	0921 1.20	MO	0909 0.99	TU	1025 1.10	WE	0941 0.76	TH	1004 1.13	SA	1131 0.58	SU	1045 1.01
	1208 1.96	SA	1436 1.78	MO	1449 2.02	TU	1632 1.89	WE	1554 2.25	TH	1649 1.96	SA	1819 2.74	SU	1753 2.34
	1810 0.97		2008 1.25		2032 1.06		2150 1.46		2143 1.15		2221 1.54				
<b>9</b>	0105 2.69	<b>24</b>	0305 2.55	<b>9</b>	0317 2.73	<b>24</b>	0406 2.28	<b>9</b>	0404 2.50	<b>24</b>	0400 2.02	<b>9</b>	0039 0.99	<b>24</b>	0008 1.29
SA	0821 1.31	SU	1030 1.11	TU	1016 0.84	WE	1111 1.01	TH	1047 0.64	FR	1054 1.03	SU	0620 2.22	MO	0531 1.93
	1332 1.89	SU	1613 1.85	TU	1613 2.18	WE	1741 2.06	TH	1715 2.45	FR	1751 2.15	SU	1228 0.48	MO	1136 0.85
	1922 1.09		2134 1.35		2157 1.11		2310 1.45		2315 1.15		2339 1.45		1911 2.91		1832 2.56
<b>10</b>	0232 2.68	<b>25</b>	0414 2.50	<b>10</b>	0428 2.72	<b>25</b>	0504 2.25	<b>10</b>	0515 2.43	<b>25</b>	0508 2.02	<b>10</b>	0134 0.86	<b>25</b>	0048 1.11
SU	0947 1.18	MO	1122 1.02	WE	1114 0.68	TH	1149 0.92	FR	1146 0.53	SA	1136 0.91	MO	0710 2.24	TU	0615 2.06
	1514 1.94	MO	1731 2.01	WE	1725 2.40	TH	1828 2.24	FR	1823 2.68	SA	1833 2.36	MO	1317 0.41	TU	1221 0.67
	2055 1.15		2254 1.35		2318 1.08							1954 3.00		1906 2.77	
<b>11</b>	0355 2.74	<b>26</b>	0512 2.49	<b>11</b>	0528 2.70	<b>26</b>	0009 1.38	<b>11</b>	0030 1.06	<b>26</b>	0031 1.33	<b>11</b>	0217 0.79	<b>26</b>	0123 0.94
MO	1051 0.98	TU	1201 0.92	TH	1205 0.54	FR	0550 2.25	SA	0617 2.39	SU	0556 2.06	TU	0750 2.25	WE	0654 2.20
	1637 2.12	TU	1821 2.18	TH	1825 2.63	FR	1221 0.83	SA	1238 0.43	SU	1213 0.78	TU	1359 0.39	WE	1303 0.50
	2221 1.10		2354 1.30		1904 2.42		1904 2.42		1917 2.87		1906 2.55		2030 3.03		1937 2.96
<b>12</b>	0500 2.84	<b>27</b>	0556 2.50	<b>12</b>	0027 1.01	<b>27</b>	0054 1.29	<b>12</b>	0129 0.96	<b>27</b>	0110 1.20	<b>12</b>	0253 0.78	<b>27</b>	0158 0.78
TU	1143 0.79	WE	1234 0.85	FR	0620 2.66	SA	0628 2.25	SU	0708 2.35	MO	0636 2.12	WE	0824 2.25	TH	0730 2.35
	1741 2.36	WE	1858 2.35	FR	1252 0.42	SA	1251 0.74	SU	1325 0.37	MO	1250 0.65	WE	1436 0.40	TH	1345 0.34
	2334 1.00				1916 2.84		1935 2.58		2002 3.01		1937 2.74		2101 3.00		2010 3.12
<b>13</b>	0551 2.92	<b>28</b>	0040 1.24	<b>13</b>	0124 0.94	<b>28</b>	0131 1.21	<b>13</b>	0219 0.89	<b>28</b>	0145 1.07	<b>13</b>	0324 0.80	<b>28</b>	0236 0.63
WE	1229 0.61	TH	0631 2.49	SA	0707 2.59	SU	0701 2.25	MO	0751 2.30	TU	0711 2.19	TH	0855 2.24	FR	0809 2.48
	1833 2.60	TH	1302 0.78	SA	1335 0.35	SU	1321 0.65	MO	1408 0.34	TU	1326 0.51	TH	1509 0.45	FR	1427 0.22
			1929 2.49		2002 3.00		2003 2.72		2042 3.08		2006 2.91		2128 2.94		2046 3.23
<b>14</b>	0034 0.89	<b>29</b>	0119 1.19	<b>14</b>	0214 0.89	<b>29</b>	0205 1.13	<b>14</b>	0302 0.86	<b>29</b>	0220 0.94	<b>14</b>	0352 0.84	<b>29</b>	0314 0.52
TH	0636 2.94	FR	0702 2.47	SU	0749 2.51	MO	0732 2.25	TU	0829 2.26	WE	0747 2.27	FR	0924 2.21	SA	0850 2.58
	1311 0.46	FR	1328 0.73	SU	1417 0.31	MO	1351 0.56	TU	1447 0.35	WE	1404 0.38	FR	1540 0.53	SA	1511 0.18
	1918 2.82		1958 2.61		2044 3.11		2031 2.85		2118 3.09		2038 3.06		2155 2.86		2124 3.24
<b>15</b>	0127 0.80	<b>30</b>	0153 1.15	<b>15</b>	0300 0.88	<b>30</b>	0239 1.06	<b>15</b>	0340 0.87	<b>30</b>	0258 0.83	<b>15</b>	0420 0.89	<b>30</b>	0355 0.45
FR	0718 2.91	SA	0730 2.43	MO	0831 2.41	TU	0803 2.26	WE	0905 2.21	TH	0824 2.35	SA	0955 2.17	SU	0934 2.62
	1351 0.36	SA	1354 0.68	MO	1456 0.32	TU	1424 0.47	WE	1524 0.39	TH	1444 0.27	SA	1609 0.64	SU	1555 0.23
	2002 3.00		2024 2.71		2124 3.15		2100 2.97		2151 3.06		2112 3.18		2222 2.75		2204 3.16
		<b>31</b>	0224 1.12							<b>31</b>	0338 0.73			<b>31</b>	0437 0.45
		SU	0756 2.39							FR	0906 2.40			MO	1023 2.60
			1418 0.63								1526 0.23				1642 0.38
			2051 2.80								2150 3.23				2247 2.98

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – ABBOT POINT

LAT 19° 51' S LONG 148° 05' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0522 0.50	<b>16</b>	0454 0.93	<b>1</b>	0540 0.54	<b>16</b>	0440 0.85	<b>1</b>	0216 1.73	<b>16</b>	0036 1.89	
	1117 2.54		1101 2.17		1202 2.64		1110 2.36		0751 1.14		0631 0.96	
TU	1733 0.62	WE	1708 1.15	TH	1826 0.99	FR	1732 1.30	TU	1448 2.58	WE	1321 2.73	
	2334 2.71		2300 2.18		2258 1.93		2258 1.93		2216 1.02		2038 1.11	
<b>2</b>	0613 0.60	<b>17</b>	0521 0.99	<b>2</b>	0007 2.14	<b>17</b>	0512 0.93	<b>2</b>	0314 1.74	<b>17</b>	0054 1.71	
	1221 2.45		1139 2.12		0638 0.72		1156 2.31		0846 1.05		0645 1.06	
WE	1833 0.90	TH	1746 1.30	FR	1325 2.54	SA	1827 1.40	MO	1547 2.61	TU	1359 2.52	
			2330 2.02		2002 1.15		2345 1.78		2300 0.91		2131 1.18	
<b>3</b>	0031 2.40	<b>18</b>	0555 1.06	<b>3</b>	0137 1.89	<b>18</b>	0558 1.03	<b>3</b>	0454 1.88	<b>18</b>	0247 1.75	
	0714 0.72		1229 2.07		0757 0.87		1303 2.27		1012 1.06		0818 1.13	
TH	1347 2.39	FR	1839 1.44	SA	1503 2.54	SU	2026 1.43	TU	1656 2.64	WE	1526 2.58	
	1958 1.13				2204 1.10			☉	2350 0.77		2234 0.98	
<b>4</b>	0154 2.12	<b>19</b>	0011 1.86	<b>4</b>	0340 1.83	<b>19</b>	0107 1.66	<b>4</b>	0553 2.07	<b>19</b>	0416 1.94	
	0834 0.79		0643 1.13		0930 0.91		0711 1.14		1121 1.01		0949 1.10	
FR	1527 2.44	SA	1358 2.05	SU	1630 2.62	MO	1455 2.31	WE	1748 2.66	TH	1632 2.69	
	2154 1.18		2049 1.52		2327 0.92		2218 1.27			☉	2322 0.76	
<b>5</b>	0346 2.00	<b>20</b>	0130 1.72	<b>5</b>	0514 1.95	<b>20</b>	0325 1.69	<b>5</b>	0028 0.67	<b>20</b>	0519 2.19	
	0959 0.77		0808 1.18		1050 0.85		0901 1.14		0636 2.24		1102 1.00	
SA	1657 2.59	SU	1604 2.17	MO	1737 2.73	TU	1618 2.46	TH	1214 0.95	FR	1725 2.79	
	☉		2251 1.38	☉			2313 1.06		1828 2.67			
<b>6</b>	0518 2.04	<b>21</b>	0356 1.72	<b>6</b>	0020 0.75	<b>21</b>	0446 1.88	<b>6</b>	0101 0.62	<b>21</b>	0006 0.56	
	1115 0.68		0953 1.10		0612 2.12		1025 1.02		0710 2.37		0609 2.46	
SU	1804 2.77	MO	1708 2.37	TU	1153 0.76	WE	1713 2.65	FR	1257 0.92	SA	1205 0.88	
		☉	2343 1.18		1826 2.80	☉	2354 0.84		1900 2.64		1810 2.84	
<b>7</b>	0038 0.85	<b>22</b>	0509 1.87	<b>7</b>	0100 0.65	<b>22</b>	0539 2.12	<b>7</b>	0129 0.59	<b>22</b>	0047 0.40	
	0620 2.15		1101 0.93		0653 2.25		1127 0.85		0739 2.47		0654 2.70	
MO	1214 0.58	TU	1754 2.60	WE	1242 0.70	TH	1757 2.83	SA	1334 0.91	SU	1259 0.78	
	1854 2.89				1904 2.82				1928 2.59		1852 2.84	
<b>8</b>	0124 0.73	<b>23</b>	0023 0.97	<b>8</b>	0133 0.61	<b>23</b>	0032 0.63	<b>8</b>	0153 0.59	<b>23</b>	0126 0.27	
	0706 2.24		0558 2.07		0728 2.35		0622 2.36		0807 2.55		0737 2.91	
TU	1303 2.51	WE	1154 0.74	TH	1322 0.67	FR	1221 0.69	SU	1406 0.93	MO	1349 0.72	
	1934 2.94		1832 2.81		1935 2.79		1836 2.95		1952 2.52		1932 2.78	
<b>9</b>	0201 0.68	<b>24</b>	0059 0.78	<b>9</b>	0201 0.61	<b>24</b>	0109 0.45	<b>9</b>	0216 0.60	<b>24</b>	0206 0.19	
	0742 2.29		0638 2.27		0756 2.40		0702 2.59		0833 2.59		0820 3.06	
WE	1344 0.49	TH	1241 0.55	FR	1356 0.68	SA	1310 0.55	MO	1436 0.97	TU	1436 0.71	
	2007 2.93		1906 2.99		2001 2.73		1913 3.02		2016 2.44		2013 2.68	
<b>10</b>	0232 0.68	<b>25</b>	0135 0.60	<b>10</b>	0226 0.63	<b>25</b>	0147 0.31	<b>10</b>	0237 0.61	<b>25</b>	0245 0.17	
	0812 2.31		0716 2.47		0822 2.44		0742 2.79		0859 2.63		0903 3.15	
TH	1418 0.51	FR	1326 0.39	SA	1427 0.73	SU	1356 0.48	TU	1505 1.02	WE	1524 0.75	
	2034 2.88		1942 3.12		2024 2.66		1951 3.01		2039 2.34		2056 2.53	
<b>11</b>	0258 0.71	<b>26</b>	0212 0.44	<b>11</b>	0248 0.66	<b>26</b>	0225 0.21	<b>11</b>	0258 0.62	<b>26</b>	0325 0.21	
	0839 2.32		0754 2.64		0848 2.46		0824 2.93		0924 2.64		0949 3.16	
FR	1449 0.56	SA	1410 0.29	SU	1455 0.79	MO	1443 0.47	WE	1533 1.08	TH	1613 0.83	
	2058 2.81		2017 3.17		2047 2.57		2029 2.92		2103 2.24	☉	2141 2.34	
<b>12</b>	0321 0.75	<b>27</b>	0250 0.33	<b>12</b>	0309 0.69	<b>27</b>	0304 0.18	<b>12</b>	0321 0.64	<b>27</b>	0407 0.32	
	0905 2.32		0835 2.77		0913 2.46		0908 3.02		0950 2.65		1036 3.10	
SA	1517 0.64	SU	1455 0.27	MO	1523 0.88	TU	1529 0.54	TH	1605 1.14	FR	1706 0.95	
	2121 2.72		2055 3.13		2110 2.46	☉	2111 2.75	☉	2130 2.14		2231 2.14	
<b>13</b>	0345 0.79	<b>28</b>	0328 0.27	<b>13</b>	0330 0.72	<b>28</b>	0344 0.21	<b>13</b>	0346 0.67	<b>28</b>	0451 0.50	
	0932 2.30		0919 2.83		0939 2.45		0955 3.02		1021 2.64		1127 2.99	
SU	1545 0.74	MO	1540 0.34	TU	1550 0.98	WE	1618 0.68	FR	1641 1.20	SA	1807 1.06	
	☉	☉	2136 2.99	☉	2133 2.34		2156 2.51		2202 2.03		2327 1.94	
<b>14</b>	0406 0.84	<b>29</b>	0409 0.29	<b>14</b>	0351 0.76	<b>29</b>	0426 0.33	<b>14</b>	0414 0.73	<b>29</b>	0540 0.71	
	1000 2.27		1006 2.83		1006 2.43		1047 2.95		1056 2.62		1225 2.84	
MO	1611 0.87	TU	1628 0.51	WE	1618 1.08	TH	1713 0.86	SA	1724 1.27	SU	1927 1.14	
	2209 2.48		2219 2.76		2157 2.21		2247 2.24		2242 1.92			
<b>15</b>	0429 0.88	<b>30</b>	0452 0.38	<b>15</b>	0413 0.80	<b>30</b>	0512 0.50	<b>15</b>	0449 0.81	<b>30</b>	0036 1.79	
	1029 2.22		1100 2.76		1035 2.40		1145 2.83		1139 2.58		0637 0.94	
TU	1637 1.00	WE	1721 0.74	TH	1651 1.19	FR	1819 1.04	SU	1822 1.32	MO	1333 2.69	
	2234 2.34		2308 2.46		2224 2.07		2346 1.97		2336 1.80		2059 1.12	
						<b>31</b>	0606 0.72					
							1257 2.70					
							SA	1958 1.13				
										<b>31</b>	0240 1.80	
											0801 1.38	
											TH	1443 2.42
												2216 1.15

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon    ☾ First Quarter    ☽ Full Moon    ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – TOWNSVILLE

LAT 19° 15' S LONG 146° 50' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0054 0.61 0704 3.28 TH 1338 1.23 1854 2.81	<b>16</b>	0014 0.99 0645 2.97 FR 1306 1.47 1802 2.71	<b>1</b>	0158 0.71 0806 3.48 SU 1448 1.22 2001 2.78	<b>16</b>	0057 0.64 0723 3.64 MO 1358 1.02 1909 3.15	<b>1</b>	0116 0.92 0718 3.37 SU 1402 1.16 1928 2.80	<b>16</b>	0000 1.02 0625 3.41 MO 1302 1.08 1821 2.96	<b>1</b>	0151 1.10 0739 3.25 WE 1416 1.12 2000 2.94	<b>16</b>	0105 0.73 0705 3.71 TH 1347 0.54 1931 3.53
<b>2</b>	0131 0.56 0742 3.42 FR 1420 1.21 1930 2.79	<b>17</b>	0042 0.79 0712 3.24 SA 1340 1.31 1837 2.86	<b>2</b>	0222 0.73 0834 3.49 MO 1514 1.26 2028 2.78	<b>17</b>	0131 0.41 0757 3.89 TU 1433 0.85 1951 3.35	<b>2</b>	0147 0.89 0745 3.41 MO 1429 1.17 1953 2.86	<b>17</b>	0040 0.75 0657 3.68 TU 1337 0.86 1900 3.25	<b>2</b>	0210 1.12 0801 3.22 TH 1428 1.12 2021 2.99	<b>17</b>	0147 0.65 0742 3.74 FR 1420 0.44 2014 3.70
<b>3</b>	0203 0.56 0816 3.49 SA 1457 1.22 2004 2.74	<b>18</b>	0111 0.58 0743 3.50 SU 1416 1.16 1916 3.01	<b>3</b>	0241 0.78 0902 3.46 TU 1536 1.32 2053 2.76	<b>18</b>	0208 0.26 0834 4.05 WE 1509 0.74 2035 3.48	<b>3</b>	0210 0.91 0810 3.41 TU 1448 1.20 2016 2.89	<b>18</b>	0117 0.53 0732 3.89 WE 1410 0.67 1941 3.50	<b>3</b>	0227 1.15 0822 3.17 FR 1437 1.10 2042 3.03	<b>18</b>	0229 0.67 0822 3.66 SA 1455 0.43 2058 3.77
<b>4</b>	0230 0.60 0850 3.51 SU 1531 1.27 2036 2.68	<b>19</b>	0143 0.39 0817 3.74 MO 1453 1.03 1958 3.14	<b>4</b>	0259 0.85 0931 3.39 WE 1554 1.38 ○ 2117 2.72	<b>19</b>	0246 0.24 0914 4.08 TH 1548 0.71 ● 2121 3.51	<b>4</b>	0227 0.94 0834 3.39 WE 1502 1.24 2037 2.91	<b>19</b>	0155 0.40 0808 4.00 TH 1444 0.55 2024 3.67	<b>4</b>	0246 1.21 0843 3.10 SA 1449 1.07 ○ 2105 3.05	<b>19</b>	0317 0.81 0902 3.45 SU 1533 0.52 ● 2144 3.70
<b>5</b>	0253 0.67 0924 3.46 MO 1603 1.35 ○ 2107 2.60	<b>20</b>	0218 0.26 0855 3.91 TU 1533 0.94 ● 2044 3.20	<b>5</b>	0317 0.95 0958 3.28 TH 1613 1.44 2140 2.64	<b>20</b>	0327 0.36 0955 3.96 FR 1631 0.77 2209 3.41	<b>5</b>	0242 0.99 0858 3.33 TH 1514 1.26 2058 2.91	<b>20</b>	0235 0.40 0847 3.97 FR 1521 0.53 ● 2109 3.71	<b>5</b>	0306 1.29 0903 3.00 SU 1505 1.07 2133 3.04	<b>20</b>	0409 1.04 0945 3.15 MO 1613 0.70 2232 3.53
<b>6</b>	0316 0.78 0957 3.37 TU 1634 1.44 2136 2.50	<b>21</b>	0257 0.23 0937 3.96 WE 1616 0.93 2133 3.18	<b>6</b>	0336 1.10 1025 3.14 FR 1635 1.51 2207 2.55	<b>21</b>	0412 0.64 1037 3.69 SA 1719 0.92 2301 3.22	<b>6</b>	0259 1.06 0921 3.24 FR 1526 1.27 ○ 2121 2.88	<b>21</b>	0318 0.55 0928 3.80 SA 1559 0.61 2155 3.63	<b>6</b>	0328 1.41 0926 2.88 MO 1526 1.10 2204 3.00	<b>21</b>	0510 1.31 1029 2.79 TU 1658 0.96 2323 3.29
<b>7</b>	0337 0.92 1030 3.23 WE 1706 1.54 2204 2.37	<b>22</b>	0338 0.34 1020 3.89 TH 1704 0.97 2225 3.07	<b>7</b>	0354 1.28 1054 2.97 SA 1703 1.59 2238 2.43	<b>22</b>	0506 1.03 1122 3.31 SU 1817 1.12 2359 2.96	<b>7</b>	0317 1.18 0945 3.11 SA 1541 1.30 2147 2.83	<b>22</b>	0406 0.83 1009 3.48 SU 1642 0.79 2244 3.44	<b>7</b>	0351 1.57 0953 2.72 TU 1551 1.17 2244 2.91	<b>22</b>	0625 1.56 1120 2.43 WE 1754 1.24
<b>8</b>	0359 1.10 1104 3.07 TH 1745 1.64 2238 2.24	<b>23</b>	0425 0.58 1106 3.69 FR 1759 1.08 2320 2.89	<b>8</b>	0410 1.49 1124 2.78 SU 1748 1.67 2322 2.30	<b>23</b>	0624 1.45 1214 2.89 MO 1931 1.31	<b>8</b>	0335 1.33 1008 2.96 SU 1559 1.36 2216 2.74	<b>23</b>	0506 1.20 1053 3.08 MO 1733 1.04 2339 3.16	<b>8</b>	0428 1.75 1029 2.52 WE 1624 1.30 2334 2.79	<b>23</b>	0024 3.02 0807 1.67 TH 1235 2.12 1917 1.49
<b>9</b>	0421 1.30 1140 2.89 FR 1836 1.71 2323 2.09	<b>24</b>	0519 0.92 1155 3.39 SA 1904 1.19	<b>9</b>	0425 1.71 1159 2.58 MO 1859 1.73	<b>24</b>	0121 2.72 0820 1.74 TU 1332 2.50 2107 1.38	<b>9</b>	0352 1.52 1032 2.78 MO 1621 1.43 2254 2.63	<b>24</b>	0626 1.55 1143 2.65 TU 1840 1.31	<b>9</b>	0650 1.89 1124 2.31 TH 1717 1.46	<b>24</b>	0159 2.83 0954 1.58 FR 1516 2.05 2114 1.59
<b>10</b>	0439 1.53 1221 2.70 SA 1955 1.74	<b>25</b>	0025 2.68 0636 1.31 SU 1252 3.04 2021 1.25	<b>10</b>	0031 2.18 0438 1.95 TU 1250 2.40 2025 1.72	<b>25</b>	0338 2.71 1032 1.72 WE 1604 2.37 2240 1.29	<b>10</b>	0411 1.73 1101 2.59 TU 1651 1.54 2348 2.51	<b>25</b>	0051 2.89 0819 1.76 WE 1259 2.28 2020 1.49	<b>10</b>	0042 2.68 0846 1.88 FR 1254 2.14 1922 1.58	<b>25</b>	0352 2.82 1110 1.40 SA 1700 2.21 2241 1.54
<b>11</b>	0034 1.97 0454 1.76 SU 1314 2.54 2133 1.67	<b>26</b>	0158 2.53 0826 1.61 MO 1415 2.73 2145 1.20	<b>11</b>	0558 2.21 1004 2.04 WE 1420 2.28 2203 1.60	<b>26</b>	0520 2.93 1158 1.50 TH 1736 2.49 ● 2348 1.13	<b>11</b>	0437 1.96 1148 2.38 WE 1809 1.66	<b>26</b>	0300 2.78 1025 1.66 TH 1554 2.19 2206 1.48	<b>11</b>	0240 2.67 1026 1.68 SA 1507 2.15 2113 1.54	<b>26</b>	0501 2.90 1158 1.25 SU 1751 2.40 ● 2343 1.45
<b>12</b>	1432 2.44 2235 1.52 MO	<b>27</b>	0401 2.63 1027 1.66 TU 1609 2.61 ● 2303 1.06	<b>12</b>	0535 2.47 1128 1.87 TH 1608 2.33 ● 2303 1.40	<b>27</b>	0614 3.15 1250 1.31 FR 1826 2.62	<b>12</b>	0109 2.41 0915 2.03 TH 1314 2.20 2026 1.68	<b>27</b>	0450 2.92 1143 1.43 FR 1730 2.37 ● 2323 1.35	<b>12</b>	0425 2.88 1119 1.42 SU 1635 2.38 ● 2238 1.36	<b>27</b>	0542 2.96 1234 1.15 MO 1826 2.56
<b>13</b>	0547 2.24 1049 1.90 TU 1552 2.43 ● 2314 1.36	<b>28</b>	0528 2.89 1157 1.52 WE 1729 2.63	<b>13</b>	0556 2.75 1213 1.66 FR 1708 2.47 2345 1.16	<b>28</b>	0038 0.99 0650 3.30 SA 1330 1.20 1900 2.73	<b>13</b>	0420 2.52 1104 1.83 FR 1535 2.20 2208 1.54	<b>28</b>	0546 3.08 1230 1.26 SA 1815 2.54	<b>13</b>	0515 3.14 1200 1.16 MO 1727 2.67 2336 1.13	<b>28</b>	0027 1.36 0614 3.00 TU 1303 1.10 1854 2.70
<b>14</b>	0602 2.48 1148 1.77 WE 1647 2.48 2345 1.18	<b>29</b>	0002 0.91 0624 3.13 TH 1256 1.36 1822 2.68	<b>14</b>	0622 3.04 1250 1.45 SA 1751 2.67	<b>14</b>	0517 2.81 1151 1.58 SA 1654 2.40 ● 2313 1.29	<b>14</b>	0517 2.81 1151 1.58 SA 1654 2.40 ● 2313 1.29	<b>29</b>	0016 1.22 0621 3.18 SU 1306 1.15 1847 2.68	<b>14</b>	0554 3.38 1238 0.92 TU 1809 2.98	<b>29</b>	0102 1.31 0640 3.02 WE 1325 1.07 1919 2.81
<b>15</b>	0622 2.72 1230 1.63 TH 1727 2.58	<b>30</b>	0050 0.79 0704 3.31 FR 1341 1.25 1901 2.73	<b>15</b>	0021 0.90 0652 3.35 SU 1324 1.23 1829 2.91	<b>15</b>	0021 0.90 0652 3.35 SU 1324 1.23 1829 2.91	<b>15</b>	0552 3.11 1228 1.33 SU 1741 2.67	<b>30</b>	0056 1.14 0650 3.23 MO 1336 1.11 1914 2.79	<b>15</b>	0023 0.91 0630 3.58 WE 1313 0.71 1850 3.28	<b>30</b>	0129 1.29 0704 3.02 TH 1341 1.04 1942 2.91
<b>31</b>	0128 0.73 0736 3.42 SA 1417 1.21 1933 2.76							<b>31</b>	0127 1.10 0716 3.25 TU 1400 1.11 1938 2.87						

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – TOWNSVILLE

LAT 19° 15' S LONG 146° 50' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0453 0.66	<b>16</b>	0345 1.16	<b>1</b>	0509 0.74	<b>16</b>	0330 1.03	<b>1</b>	0122 1.93	<b>16</b>	0539 1.17
	1039 3.07		1013 2.48		1120 3.08		1033 2.65		0735 1.44		1245 3.00
TU	1647 0.79	WE	1545 1.43	TH	1804 1.28	FR	1705 1.67	SU	1337 2.84	MO	1951 1.63
	2258 3.23		2217 2.54		2320 2.58		2202 2.29		2116 1.40		2154 1.36
<b>2</b>	0549 0.83	<b>17</b>	0404 1.25	<b>2</b>	0618 0.99	<b>17</b>	0357 1.15	<b>2</b>	0243 1.93	<b>17</b>	0009 1.98
	1138 2.87		1054 2.37		1231 2.84		1124 2.54		0849 1.33		0606 1.33
WE	1801 1.16	TH	1603 1.64	FR	1942 1.49	SA	1840 1.78	MO	1520 2.82	TU	1323 2.73
	2347 2.83		2241 2.34		2141 1.44		2245 2.08		2242 1.22		2124 1.47
<b>3</b>	0659 1.00	<b>18</b>	0429 1.35	<b>3</b>	0031 2.18	<b>18</b>	0435 1.32	<b>3</b>	0432 2.10	<b>18</b>	0201 1.95
	1251 2.67		1151 2.27		0751 1.17		1232 2.46		1012 1.30		0802 1.41
TH	1937 1.46	FR	1848 1.84	SA	1424 2.73	SU	2043 1.76	TU	1635 2.88	WE	1500 2.79
			2317 2.13		2141 1.44			☉	2337 1.04		2226 1.24
<b>4</b>	0053 2.42	<b>19</b>	0523 1.48	<b>4</b>	0314 2.03	<b>19</b>	0021 1.89	<b>4</b>	0531 2.32	<b>19</b>	0352 2.15
	0827 1.09		1313 2.20		0931 1.18		0705 1.46		1117 1.23		0936 1.35
FR	1451 2.62	SA	2133 1.86	SU	1609 2.84	MO	1425 2.47	WE	1722 2.93	TH	1610 2.94
	2143 1.52				2312 1.21		2223 1.55			☉	2313 0.99
<b>5</b>	0317 2.19	<b>20</b>	0046 1.93	<b>5</b>	0458 2.20	<b>20</b>	0259 1.88	<b>5</b>	0017 0.92	<b>20</b>	0452 2.45
	0957 1.04		0813 1.50		1048 1.08		0853 1.42		0609 2.49		1046 1.21
SA	1635 2.79	SU	1618 2.33	MO	1717 2.99	TU	1606 2.67	TH	1206 1.17	FR	1658 3.09
☉	2325 1.32		2306 1.65	☉			2309 1.30		1758 2.96		2353 0.75
<b>6</b>	0502 2.28	<b>21</b>	0335 1.92	<b>6</b>	0006 1.00	<b>21</b>	0427 2.12	<b>6</b>	0050 0.85	<b>21</b>	0539 2.77
	1110 0.91		0948 1.38		0551 2.39		1014 1.26		0640 2.63		1142 1.06
SU	1743 3.01	MO	1706 2.58	TU	1146 0.97	WE	1655 2.91	FR	1245 1.15	SA	1740 3.21
		☉	2344 1.42		1800 3.09	☉	2346 1.05		1827 2.96		
<b>7</b>	0026 1.09	<b>22</b>	0448 2.12	<b>7</b>	0047 0.87	<b>22</b>	0513 2.40	<b>7</b>	0115 0.83	<b>22</b>	0030 0.54
	0600 2.42		1051 1.17		0628 2.54		1110 1.05		0706 2.74		0620 3.07
MO	1207 0.78	TU	1737 2.85	WE	1232 0.90	TH	1733 3.14	SA	1316 1.15	SU	1232 0.94
	1827 3.17				1833 3.14				1852 2.93		1818 3.29
<b>8</b>	0109 0.94	<b>23</b>	0017 1.19	<b>8</b>	0120 0.82	<b>23</b>	0020 0.81	<b>8</b>	0134 0.83	<b>23</b>	0105 0.38
	0640 2.54		0529 2.36		0657 2.65		0551 2.71		0731 2.82		0701 3.34
TU	1252 0.71	WE	1135 0.93	TH	1308 0.89	FR	1156 0.84	SU	1342 1.18	MO	1320 0.86
	1901 3.25		1807 3.11		1901 3.14		1807 3.34		1915 2.89		1857 3.30
<b>9</b>	0145 0.88	<b>24</b>	0048 0.96	<b>9</b>	0147 0.83	<b>24</b>	0053 0.59	<b>9</b>	0147 0.82	<b>24</b>	0139 0.26
	0711 2.62		0603 2.63		0723 2.72		0628 3.02		0754 2.89		0743 3.55
WE	1328 0.69	TH	1214 0.70	FR	1337 0.92	SA	1238 0.67	MO	1406 1.22	TU	1407 0.85
	1930 3.28		1838 3.37		1926 3.11		1842 3.49		1935 2.84		1937 3.25
<b>10</b>	0215 0.88	<b>25</b>	0119 0.74	<b>10</b>	0207 0.86	<b>25</b>	0125 0.40	<b>10</b>	0156 0.80	<b>25</b>	0214 0.22
	0738 2.67		0638 2.91		0747 2.77		0707 3.29		0817 2.94		0827 3.67
TH	1356 0.72	FR	1252 0.49	SA	1359 0.97	SU	1320 0.57	TU	1430 1.26	WE	1456 0.90
	1956 3.27		1911 3.58		1949 3.06		1918 3.57		1954 2.78		2019 3.11
<b>11</b>	0239 0.93	<b>26</b>	0151 0.55	<b>11</b>	0220 0.89	<b>26</b>	0158 0.27	<b>11</b>	0208 0.77	<b>26</b>	0251 0.27
	0803 2.69		0717 3.17		0810 2.80		0749 3.50		0841 2.99		0912 3.68
FR	1417 0.78	SA	1330 0.35	SU	1418 1.04	MO	1403 0.56	WE	1457 1.32	TH	1548 1.01
	2022 3.23		1945 3.72		2010 2.99		1956 3.53		2015 2.71	☉	2103 2.90
<b>12</b>	0257 0.98	<b>27</b>	0223 0.40	<b>12</b>	0228 0.90	<b>27</b>	0232 0.22	<b>12</b>	0225 0.75	<b>27</b>	0329 0.42
	0828 2.69		0758 3.36		0832 2.81		0833 3.60		0909 3.00		0959 3.59
SA	1435 0.86	SU	1409 0.31	MO	1436 1.12	TU	1451 0.66	TH	1528 1.40	FR	1644 1.17
	2047 3.15		2023 3.75		2031 2.89	☉	2037 3.38	☉	2040 2.61		2149 2.64
<b>13</b>	0308 1.03	<b>28</b>	0257 0.33	<b>13</b>	0236 0.90	<b>28</b>	0307 0.27	<b>13</b>	0248 0.77	<b>28</b>	0411 0.64
	0851 2.67		0843 3.46		0855 2.81		0920 3.59		0943 2.99		1048 3.41
SU	1451 0.96	MO	1453 0.41	TU	1457 1.22	WE	1546 0.85	FR	1613 1.50	SA	1747 1.33
☉	2111 3.04	☉	2103 3.63	☉	2051 2.78	☉	2120 3.11		2110 2.49		2239 2.36
<b>14</b>	0318 1.06	<b>29</b>	0334 0.37	<b>14</b>	0249 0.91	<b>29</b>	0348 0.43	<b>14</b>	0314 0.84	<b>29</b>	0458 0.92
	0915 2.63		0931 3.43		0922 2.78		1010 3.47		1023 2.94		1141 3.18
MO	1509 1.09	TU	1544 0.64	WE	1519 1.34	TH	1649 1.09	SA	1713 1.60	SU	1903 1.44
	2133 2.90		2145 3.37		2110 2.64		2206 2.76		2149 2.33		2339 2.10
<b>15</b>	0329 1.10	<b>30</b>	0417 0.51	<b>15</b>	0307 0.95	<b>30</b>	0435 0.68	<b>15</b>	0348 0.97	<b>30</b>	0558 1.20
	0942 2.57		1023 3.29		0954 2.73		1104 3.26		1110 2.86		1242 2.95
TU	1528 1.25	WE	1647 0.95	TH	1544 1.50	FR	1801 1.32	SU	1824 1.66	MO	2029 1.45
	2156 2.73		2230 3.00		2133 2.48		2258 2.39		2244 2.14		
				<b>31</b>	0536 0.96						
					1207 3.02						
					SA 1933 1.45						
										<b>31</b>	0131 1.96
											0707 1.69
											TH 1349 2.64
											2204 1.51

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

LAT 18° 31' S LONG 146° 23' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0047 0.65	<b>16</b>	0007 1.00
	0711 3.16		0645 2.86
TH	1332 1.27	FR	1258 1.49
	1856 2.71		1809 2.61
<b>2</b>	0123 0.58	<b>17</b>	0036 0.79
	0749 3.30		0712 3.12
FR	1413 1.24	SA	1330 1.34
	1933 2.68		1846 2.75
<b>3</b>	0156 0.56	<b>18</b>	0109 0.58
	0824 3.37		0744 3.38
SA	1449 1.24	SU	1403 1.18
	2007 2.64		1925 2.89
<b>4</b>	0225 0.59	<b>19</b>	0144 0.39
	0858 3.38		0820 3.61
SU	1521 1.28	MO	1440 1.04
	2039 2.58		2008 3.01
<b>5</b>	0253 0.65	<b>20</b>	0222 0.26
	0931 3.34		0900 3.77
MO	1552 1.34	TU	1519 0.95
	2110 2.51	●	2051 3.06
<b>6</b>	0320 0.75	<b>21</b>	0302 0.23
	1003 3.24		0940 3.82
TU	1621 1.42	WE	1602 0.93
	2140 2.41		2138 3.04
<b>7</b>	0346 0.89	<b>22</b>	0345 0.33
	1035 3.11		1023 3.74
WE	1651 1.51	TH	1648 0.97
	2210 2.29		2227 2.94
<b>8</b>	0411 1.07	<b>23</b>	0430 0.55
	1106 2.94		1109 3.55
TH	1726 1.61	FR	1740 1.08
	2242 2.16		2322 2.77
<b>9</b>	0437 1.27	<b>24</b>	0519 0.88
	1140 2.77		1158 3.26
FR	1814 1.69	SA	1846 1.20
	2320 2.03		
<b>10</b>	0501 1.49	<b>25</b>	0028 2.57
	1219 2.60		0621 1.26
SA	2001 1.72	SU	1257 2.93
			2013 1.27
<b>11</b>	0021 1.91	<b>26</b>	0200 2.44
	0524 1.71		0803 1.60
SU	1311 2.44	MO	1418 2.64
	2147 1.64		2146 1.23
<b>12</b>	0529 1.94	<b>27</b>	0402 2.52
	0817 1.92		1025 1.68
MO	1436 2.34	TU	1603 2.50
	2242 1.51	●	2302 1.09
<b>13</b>	0551 2.16	<b>28</b>	0535 2.77
	1047 1.88		1201 1.55
TU	1601 2.34	WE	1726 2.52
●	2314 1.35		2358 0.94
<b>14</b>	0606 2.38	<b>29</b>	0629 3.02
	1146 1.77		1259 1.40
WE	1653 2.39	TH	1820 2.57
	2341 1.19		
<b>15</b>	0624 2.61	<b>30</b>	0043 0.83
	1225 1.64		0709 3.20
TH	1732 2.48	FR	1341 1.30
			1901 2.62
		<b>31</b>	0118 0.75
			0743 3.31
			SA 1414 1.25
			1935 2.66

## FEBRUARY

Time	m	Time	m
<b>1</b>	0149 0.72	<b>16</b>	0052 0.65
	0813 3.37		0725 3.52
SU	1441 1.24	MO	1348 1.06
	2003 2.68		1915 3.02
<b>2</b>	0215 0.73	<b>17</b>	0130 0.42
	0842 3.37		0801 3.76
MO	1505 1.27	TU	1422 0.88
	2030 2.68		1957 3.21
<b>3</b>	0240 0.76	<b>18</b>	0209 0.27
	0909 3.34		0839 3.91
TU	1525 1.30	WE	1459 0.75
	2055 2.66		2041 3.33
<b>4</b>	0302 0.83	<b>19</b>	0249 0.24
	0936 3.26		0918 3.93
WE	1544 1.35	TH	1538 0.71
○	2120 2.61	●	2125 3.36
<b>5</b>	0325 0.93	<b>20</b>	0331 0.36
	1001 3.15		0958 3.81
TH	1604 1.40	FR	1618 0.76
	2145 2.55		2212 3.27
<b>6</b>	0347 1.07	<b>21</b>	0414 0.61
	1025 3.02		1040 3.55
FR	1627 1.46	SA	1703 0.90
	2212 2.46		2303 3.08
<b>7</b>	0409 1.25	<b>22</b>	0502 0.98
	1051 2.86		1124 3.20
SA	1654 1.53	SU	1755 1.10
	2243 2.35		
<b>8</b>	0430 1.45	<b>23</b>	0003 2.84
	1119 2.69		0602 1.40
SU	1728 1.61	MO	1217 2.79
	2323 2.23		1910 1.30
<b>9</b>	0449 1.67	<b>24</b>	0126 2.63
	1153 2.50		0800 1.74
MO	1818 1.68	TU	1336 2.42
			2100 1.39
<b>10</b>	0024 2.11	<b>25</b>	0340 2.61
	0504 1.90		1044 1.73
TU	1240 2.32	WE	1557 2.27
	2017 1.70		2239 1.31
<b>11</b>	0524 2.14	<b>26</b>	0526 2.83
	1014 2.01		1207 1.52
WE	1418 2.20	TH	1735 2.37
	2209 1.58	●	2345 1.16
<b>12</b>	0538 2.38	<b>27</b>	0618 3.04
	1132 1.86		1257 1.35
TH	1613 2.24	FR	1825 2.50
●	2300 1.39		
<b>13</b>	0558 2.65	<b>28</b>	0031 1.03
	1212 1.67		0654 3.18
FR	1710 2.38	SA	1332 1.25
	2339 1.16		1900 2.61
<b>14</b>	0622 2.93	<b>29</b>	0622 2.93
	1245 1.48		1245 1.48
SA	1754 2.57		
		<b>30</b>	0016 0.90
			0651 3.23
			SU 1315 1.27
			1834 2.80

## MARCH

Time	m	Time	m
<b>1</b>	0107 0.95	<b>16</b>	0625 3.30
	0725 3.26		1255 1.13
SU	1359 1.21	MO	1823 2.85
	1929 2.69		
<b>2</b>	0136 0.91	<b>17</b>	0034 0.76
	0751 3.30		0659 3.56
MO	1421 1.20	TU	1327 0.90
	1954 2.75		1904 3.12
<b>3</b>	0200 0.91	<b>18</b>	0114 0.55
	0816 3.30		0736 3.77
TU	1438 1.21	WE	1401 0.70
	2017 2.78		1946 3.36
<b>4</b>	0221 0.93	<b>19</b>	0154 0.42
	0840 3.27		0813 3.87
WE	1453 1.22	TH	1436 0.57
	2039 2.80		2029 3.51
<b>5</b>	0242 0.97	<b>20</b>	0235 0.41
	0902 3.21		0852 3.83
TH	1507 1.23	FR	1512 0.53
	2101 2.80	●	2112 3.56
<b>6</b>	0302 1.05	<b>21</b>	0317 0.55
	0924 3.12		0931 3.66
FR	1525 1.24	SA	1550 0.59
○	2124 2.78		2158 3.48
<b>7</b>	0325 1.16	<b>22</b>	0401 0.81
	0945 3.01		1011 3.36
SA	1546 1.26	SU	1630 0.76
	2150 2.73		2247 3.30
<b>8</b>	0347 1.30	<b>23</b>	0451 1.16
	1009 2.87		1054 2.98
SU	1610 1.31	MO	1715 1.00
	2221 2.65		2343 3.05
<b>9</b>	0411 1.49	<b>24</b>	0558 1.54
	1034 2.70		1143 2.57
MO	1637 1.38	TU	1815 1.27
	2257 2.55		
<b>10</b>	0438 1.69	<b>25</b>	0058 2.80
	1104 2.51		0815 1.78
TU	1710 1.48	WE	1259 2.21
	2346 2.42		2000 1.48
<b>11</b>	0520 1.91	<b>26</b>	0300 2.70
	1145 2.31		1043 1.66
WE	1802 1.59	TH	1554 2.09
			2200 1.49
<b>12</b>	0107 2.32	<b>27</b>	0454 2.83
	0949 2.01		1153 1.45
TH	1301 2.12	FR	1733 2.26
	2001 1.65	●	2318 1.37
<b>13</b>	0428 2.45	<b>28</b>	0548 2.98
	1112 1.82		1237 1.29
FR	1538 2.12	SA	1817 2.43
	2207 1.52		
<b>14</b>	0517 2.72	<b>29</b>	0009 1.26
	1153 1.60		0625 3.08
SA	1654 2.31	SU	1309 1.20
●	2307 1.29		1849 2.56
<b>15</b>	0551 3.01	<b>30</b>	0047 1.18
	1225 1.37		0654 3.13
SU	1741 2.56	MO	1333 1.16
	2353 1.03		1915 2.67
		<b>31</b>	0116 1.13
			0719 3.15
			TU 1352 1.14
			1938 2.76

## APRIL

Time	m	Time	m
<b>1</b>	0139 1.12	<b>16</b>	0059 0.76
	0743 3.15		0710 3.59
WE	1406 1.13	TH	1338 0.57
	2001 2.83		1935 3.39
<b>2</b>	0201 1.12	<b>17</b>	0141 0.67
	0805 3.12		0748 3.62
TH	1419 1.11	FR	1413 0.45
	2022 2.88		2018 3.56
<b>3</b>	0222 1.15	<b>18</b>	0224 0.68
	0825 3.07		0826 3.53
FR	1434 1.07	SA	1448 0.42
	2043 2.92		2102 3.62
<b>4</b>	0243 1.20	<b>19</b>	0307 0.81
	0846 3.00		0905 3.34
SA	1451 1.05	SU	1526 0.50
○	2107 2.94	●	2147 3.56
<b>5</b>	0307 1.27	<b>20</b>	0354 1.03
	0907 2.91		0946 3.05
SU	1513 1.04	MO	1604 0.67
	2135 2.94		2235 3.40
<b>6</b>	0333 1.38	<b>21</b>	0447 1.31
	0932 2.79		1029 2.71
MO	1538 1.07	TU	1647 0.91
	2206 2.90		2328 3.17
<b>7</b>	0403 1.53	<b>22</b>	0603 1.58
	1001 2.64		1118 2.36
TU	1606 1.14	WE	1736 1.19
	2244 2.81		
<b>8</b>	0442 1.70	<b>23</b>	0033 2.93
	1035 2.45		0811 1.70
WE	1641 1.26	TH	1231 2.06
	2332 2.70		1853 1.45
<b>9</b>	0546 1.88	<b>24</b>	0203 2.76
	1122 2.25		1015 1.59
TH	1729 1.40	FR	1511 1.95
			2055 1.58
<b>10</b>	0041 2.58	<b>25</b>	0353 2.75
	0917 1.88		1122 1.42
FR	1242 2.06	SA	1710 2.11
	1853 1.54		2233 1.56
<b>11</b>	0253 2.59	<b>26</b>	0501 2.82
	1037 1.68		1205 1.28
SA	1509 2.06	SU	1758 2.30
	2105 1.53	●	2336 1.47
<b>12</b>	0425 2.80	<b>27</b>	0543 2.88

# AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

LAT 18° 31' S LONG 146° 23' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0142 1.31	<b>16</b>	0136 0.94	<b>1</b>	0218 1.36	<b>16</b>	0312 1.13	<b>1</b>	0340 0.83	<b>16</b>	0359 1.19
FR	0728 2.91	SA	0727 3.23	MO	0743 2.68	TU	0836 2.66	SA	0916 2.85	SU	0943 2.38
	1346 0.99		1354 0.42		1400 0.72		1456 0.50		1524 0.28		1544 0.95
	2004 2.89		2013 3.49		2039 3.11		2133 3.44		2201 3.57		2218 2.87
<b>2</b>	0204 1.30	<b>17</b>	0221 0.95	<b>2</b>	0249 1.33	<b>17</b>	0355 1.19	<b>2</b>	0423 0.83	<b>17</b>	0421 1.26
SA	0749 2.88	SU	0806 3.13	TU	0815 2.67	WE	0916 2.53	SU	1004 2.81	MO	1011 2.28
	1403 0.93		1431 0.41		1430 0.65	●	1532 0.62	SU	1608 0.42	MO	1607 1.13
	2027 2.98		2055 3.56		2112 3.20		2212 3.34		2243 3.44		2242 2.69
<b>3</b>	0229 1.32	<b>18</b>	0307 1.03	<b>3</b>	0325 1.32	<b>18</b>	0441 1.29	<b>3</b>	0510 0.88	<b>18</b>	0446 1.33
SU	0811 2.84	MO	0846 2.96	WE	0851 2.62	TH	0957 2.37	MO	1057 2.69	TH	1044 2.17
	1423 0.87	●	1508 0.48	○	1504 0.63		1608 0.79	MO	1656 0.67	TU	1631 1.33
	2053 3.05		2140 3.53		2150 3.24		2253 3.19		2329 3.21		2308 2.50
<b>4</b>	0255 1.35	<b>19</b>	0354 1.17	<b>4</b>	0407 1.35	<b>19</b>	0532 1.41	<b>4</b>	0609 0.98	<b>19</b>	0517 1.41
MO	0836 2.78	TU	0927 2.74	TH	0933 2.54	FR	1039 2.20	SA	1159 2.54	TU	1124 2.06
○	1448 0.83		1546 0.63		1543 0.68		1644 0.99		1752 1.01	WE	1656 1.55
	2123 3.09		2225 3.40		2232 3.22		2334 2.99				2339 2.31
<b>5</b>	0327 1.41	<b>20</b>	0449 1.35	<b>5</b>	0459 1.40	<b>20</b>	0635 1.51	<b>5</b>	0543 1.16	<b>20</b>	0604 1.49
TU	0907 2.69	WE	1011 2.48	FR	1023 2.42	SA	1127 2.03	SU	1113 2.46	MO	1129 2.00
	1517 0.85		1626 0.84		1628 0.79		1721 1.22		1710 0.76		1711 1.36
	2157 3.08		2313 3.21		2320 3.15				2355 3.18		1912 1.35
<b>6</b>	0404 1.50	<b>21</b>	0559 1.51	<b>6</b>	0610 1.45	<b>21</b>	0019 2.78	<b>6</b>	0654 1.19	<b>21</b>	0005 2.55
WE	0942 2.56	TH	1100 2.23	SA	1120 2.28	SU	0758 1.55	MO	1219 2.34	TU	0716 1.55
	1550 0.91		1710 1.09		1720 0.96		1804 1.45		1808 1.02		1226 1.89
	2238 3.03								1744 1.58		1744 1.58
<b>7</b>	0454 1.61	<b>22</b>	0005 2.99	<b>7</b>	0017 3.03	<b>22</b>	0112 2.59	<b>7</b>	0054 2.97	<b>22</b>	0047 2.36
TH	1025 2.39	FR	0735 1.59	SU	0744 1.43	MO	0928 1.51	TU	0816 1.17	WE	0902 1.53
	1630 1.03		1202 2.00		1235 2.16		1421 1.84		1342 2.27		1443 1.85
	2327 2.93		1802 1.34		1824 1.16		1914 1.65		1924 1.29		1901 1.79
<b>8</b>	0616 1.72	<b>23</b>	0109 2.78	<b>8</b>	0127 2.92	<b>23</b>	0222 2.45	<b>8</b>	0206 2.76	<b>23</b>	0153 2.21
FR	1121 2.21	SA	0921 1.56	MO	0905 1.31	TU	1031 1.42	WE	0932 1.07	TH	1011 1.43
	1722 1.19		1351 1.88		1409 2.15		1641 1.95		1518 2.33		1726 2.03
			1923 1.56		1947 1.33		2134 1.76		2112 1.46		2232 1.82
<b>9</b>	0031 2.82	<b>24</b>	0229 2.65	<b>9</b>	0246 2.86	<b>24</b>	0339 2.39	<b>9</b>	0329 2.63	<b>24</b>	0333 2.14
SA	0834 1.67	SU	1036 1.44	TU	1009 1.14	WE	1112 1.31	TH	1038 0.93	FR	1053 1.31
	1241 2.06		1613 1.95		1541 2.29	●	1743 2.13	●	1648 2.53	●	1759 2.23
	1835 1.35		2118 1.66		2126 1.40		2307 1.73		2259 1.46		2346 1.71
<b>10</b>	0202 2.78	<b>25</b>	0352 2.62	<b>10</b>	0359 2.86	<b>25</b>	0437 2.39	<b>10</b>	0445 2.58	<b>25</b>	0439 2.17
SU	0952 1.50	MO	1123 1.32	WE	1102 0.96	TH	1140 1.21	FR	1132 0.79	SA	1124 1.17
	1439 2.07		1727 2.12	●	1655 2.52		1816 2.31		1755 2.78		1820 2.42
	2017 1.44		2247 1.64		2252 1.36						
<b>11</b>	0333 2.86	<b>26</b>	0449 2.63	<b>11</b>	0459 2.88	<b>26</b>	0002 1.65	<b>11</b>	0017 1.35	<b>26</b>	0028 1.59
MO	1047 1.28	TU	1157 1.23	TH	1147 0.79	FR	0519 2.40	SA	0545 2.57	SU	0522 2.23
●	1609 2.27	●	1806 2.29		1753 2.79		1840 2.49		1219 0.66		1152 1.02
	2154 1.38		2344 1.58						1847 3.01		1840 2.63
<b>12</b>	0436 3.00	<b>27</b>	0529 2.65	<b>12</b>	0000 1.28	<b>27</b>	0041 1.57	<b>12</b>	0113 1.23	<b>27</b>	0058 1.46
TU	1130 1.06	WE	1221 1.15	FR	0549 2.89	SA	0551 2.43	SU	0633 2.58	MO	0557 2.33
	1710 2.54		1835 2.45		1227 0.64		1224 0.99		1300 0.57		1220 0.84
	2306 1.25				1843 3.03		1903 2.66		1930 3.19		1904 2.85
<b>13</b>	0524 3.13	<b>28</b>	0026 1.52	<b>13</b>	0055 1.19	<b>28</b>	0111 1.48	<b>13</b>	0157 1.15	<b>28</b>	0125 1.32
WE	1207 0.84	TH	0600 2.67	SA	0633 2.88	SU	0621 2.47	MO	0715 2.58	TU	0631 2.45
	1800 2.83		1240 1.07		1306 0.52		1246 0.86		1338 0.51		1252 0.66
			1859 2.59		1928 3.24		1926 2.83		2009 3.31		1933 3.08
<b>14</b>	0001 1.11	<b>29</b>	0057 1.47	<b>14</b>	0144 1.13	<b>29</b>	0139 1.40	<b>14</b>	0236 1.10	<b>29</b>	0154 1.17
TH	0607 3.23	FR	0627 2.67	SU	0715 2.84	MO	0650 2.52	TU	0754 2.56	WE	0709 2.59
	1243 0.66		1257 1.00		1343 0.46		1312 0.72		1413 0.50		1326 0.48
	1845 3.10		1923 2.73		2010 3.39		1953 3.02		2045 3.36		2006 3.30
<b>15</b>	0050 1.00	<b>30</b>	0125 1.43	<b>15</b>	0229 1.10	<b>30</b>	0208 1.30	<b>15</b>	0312 1.10	<b>30</b>	0227 1.02
FR	0647 3.26	SA	0652 2.67	MO	0756 2.77	TU	0723 2.59	WE	0829 2.53	TH	0748 2.72
	1318 0.51		1314 0.91		1420 0.45		1342 0.58		1446 0.54		1403 0.33
	1929 3.33		1946 2.86		2052 3.45		2024 3.19		2120 3.34		2041 3.48
<b>31</b>	0151 1.39							<b>31</b>	0302 0.90		
	0716 2.68								0830 2.82		
	SU 1335 0.81								FR 1442 0.25		
	2010 2.99								○ 2120 3.58		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – LUCINDA (OFFSHORE)

LAT 18° 31' S LONG 146° 23' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0438 0.65	<b>16</b>	0357 1.13	<b>1</b>	0454 0.70	<b>16</b>	0346 1.01	<b>1</b>	0115 1.86	<b>16</b>	0541 1.13
	1140 2.94		1013 2.39		1123 2.95		1031 2.56		0709 1.41		1250 2.88
TU	1641 0.74	WE	1604 1.37	TH	1738 1.25	FR	1630 1.59	SU	1339 2.75	MO	2017 1.63
	2300 3.09		2221 2.44		2322 2.48		2216 2.21		2136 1.39		2211 1.35
<b>2</b>	0528 0.82	<b>17</b>	0422 1.21	<b>2</b>	0554 0.96	<b>17</b>	0417 1.13	<b>2</b>	0232 1.85	<b>17</b>	0002 1.90
	1140 2.75		1050 2.29		1236 2.73		1118 2.45		0834 1.34		0557 1.29
WE	1740 1.11	TH	1633 1.57	FR	1937 1.49	SA	1736 1.76	MO	1521 2.71	TU	1332 2.62
	2351 2.71		2249 2.25		2159 1.43		2257 2.01		2254 1.21		2139 1.46
<b>3</b>	0638 1.01	<b>18</b>	0454 1.31	<b>3</b>	0035 2.10	<b>18</b>	0500 1.28	<b>3</b>	0443 2.01	<b>18</b>	0205 1.87
	1257 2.56		1140 2.18		0734 1.17		1227 2.36		1009 1.32		0743 1.39
TH	1918 1.45	FR	1719 1.77	SA	1422 2.63	SU	2119 1.72	TU	1637 2.77	WE	1506 2.69
			2324 2.05		2159 1.43			☉	2343 1.06		2233 1.25
<b>4</b>	0059 2.33	<b>19</b>	0542 1.43	<b>4</b>	0308 1.94	<b>19</b>	0011 1.82	<b>4</b>	0537 2.21	<b>19</b>	0352 2.06
	0820 1.12		1306 2.10		0927 1.20		0624 1.42		1114 1.25		0929 1.35
FR	1448 2.50	SA	2202 1.81	SU	1616 2.72	MO	1443 2.37	WE	1725 2.82	TH	1612 2.83
	2151 1.52				2322 1.21		2232 1.52			☉	2315 1.02
<b>5</b>	0307 2.11	<b>20</b>	0033 1.86	<b>5</b>	0503 2.10	<b>20</b>	0302 1.80	<b>5</b>	0019 0.96	<b>20</b>	0453 2.34
	0957 1.07		0755 1.49		1048 1.10		0852 1.42		0614 2.38		1039 1.22
SA	1642 2.67	SU	1632 2.24	MO	1721 2.87	TU	1611 2.57	TH	1201 1.19	FR	1701 2.97
☉	2333 1.33		2313 1.62	☉			2314 1.30		1800 2.84		2351 0.80
<b>6</b>	0502 2.18	<b>21</b>	0342 1.85	<b>6</b>	0012 1.03	<b>21</b>	0428 2.02	<b>6</b>	0047 0.90	<b>21</b>	0540 2.65
	1110 0.94		0956 1.36		0554 2.28		1013 1.26		0643 2.52		1135 1.08
SU	1748 2.89	MO	1709 2.48	TU	1143 0.99	WE	1657 2.79	FR	1238 1.16	SA	1743 3.09
		☉	2348 1.42		1803 2.97	☉	2346 1.08		1829 2.84		
<b>7</b>	0031 1.13	<b>22</b>	0449 2.03	<b>7</b>	0048 0.92	<b>22</b>	0513 2.30	<b>7</b>	0109 0.87	<b>22</b>	0024 0.59
	0600 2.31		1050 1.16		0630 2.43		1106 1.05		0709 2.63		0623 2.95
MO	1203 0.81	TU	1738 2.73	WE	1226 0.93	TH	1734 3.02	SA	1308 1.16	SU	1224 0.95
	1831 3.04				1837 3.01				1855 2.82		1824 3.16
<b>8</b>	0111 1.00	<b>23</b>	0015 1.21	<b>8</b>	0117 0.88	<b>23</b>	0015 0.85	<b>8</b>	0125 0.85	<b>23</b>	0058 0.41
	0640 2.43		0528 2.27		0659 2.54		0552 2.60		0733 2.72		0705 3.21
TU	1245 0.73	WE	1132 0.93	TH	1259 0.90	FR	1151 0.85	SU	1333 1.17	MO	1311 0.87
	1906 3.13		1807 2.98		1905 3.01		1810 3.21		1918 2.78		1904 3.17
<b>9</b>	0143 0.94	<b>24</b>	0042 1.00	<b>9</b>	0139 0.87	<b>24</b>	0045 0.63	<b>9</b>	0139 0.82	<b>24</b>	0133 0.29
	0712 2.51		0605 2.53		0725 2.62		0631 2.89		0756 2.79		0749 3.42
WE	1318 0.70	TH	1211 0.70	FR	1327 0.91	SA	1234 0.68	MO	1357 1.20	TU	1357 0.85
	1936 3.15		1840 3.23		1930 2.99		1847 3.36		1940 2.73		1944 3.12
<b>10</b>	0208 0.93	<b>25</b>	0110 0.78	<b>10</b>	0157 0.88	<b>25</b>	0117 0.44	<b>10</b>	0154 0.79	<b>25</b>	0209 0.23
	0740 2.57		0643 2.80		0749 2.67		0711 3.16		0819 2.84		0832 3.53
TH	1347 0.71	FR	1250 0.49	SA	1351 0.95	SU	1316 0.57	TU	1420 1.24	WE	1443 0.89
	2003 3.14		1914 3.44		1954 2.94		1924 3.42		2001 2.67		2024 2.99
<b>11</b>	0229 0.95	<b>26</b>	0141 0.58	<b>11</b>	0210 0.89	<b>26</b>	0151 0.29	<b>11</b>	0212 0.75	<b>26</b>	0247 0.27
	0806 2.59		0723 3.04		0812 2.70		0754 3.36		0843 2.88		0917 3.55
FR	1411 0.75	SA	1330 0.34	SU	1412 1.01	MO	1359 0.55	WE	1446 1.29	TH	1533 1.01
	2028 3.09		1951 3.57		2015 2.86		2003 3.39		2024 2.60	☉	2107 2.79
<b>12</b>	0245 0.99	<b>27</b>	0214 0.42	<b>12</b>	0224 0.88	<b>27</b>	0226 0.23	<b>12</b>	0234 0.74	<b>27</b>	0326 0.40
	0830 2.60		0804 3.23		0834 2.71		0838 3.46		0911 2.90		1004 3.46
SA	1433 0.82	SU	1411 0.30	MO	1434 1.08	TU	1444 0.63	TH	1516 1.35	FR	1627 1.17
	2052 3.01		2028 3.59		2035 2.77	☉	2042 3.24	☉	2051 2.51		2152 2.55
<b>13</b>	0300 1.01	<b>28</b>	0249 0.34	<b>13</b>	0239 0.88	<b>28</b>	0303 0.27	<b>13</b>	0259 0.76	<b>28</b>	0407 0.60
	0854 2.58		0848 3.31		0858 2.71		0924 3.45		0943 2.89		1053 3.29
SU	1454 0.92	MO	1453 0.38	TU	1457 1.17	WE	1533 0.82	FR	1551 1.44	SA	1732 1.34
☉	2114 2.90	☉	2107 3.47	☉	2055 2.67		2124 2.98		2123 2.39		2240 2.28
<b>14</b>	0316 1.04	<b>29</b>	0327 0.36	<b>14</b>	0259 0.89	<b>29</b>	0343 0.41	<b>14</b>	0328 0.83	<b>29</b>	0452 0.87
	0918 2.54		0935 3.29		0924 2.69		1013 3.34		1021 2.84		1147 3.07
MO	1517 1.04	TU	1539 0.59	WE	1523 1.29	TH	1628 1.07	SA	1637 1.55	SU	1859 1.46
	2135 2.77		2148 3.23		2118 2.54		2209 2.66		2201 2.24		2340 2.03
<b>15</b>	0334 1.07	<b>30</b>	0408 0.49	<b>15</b>	0321 0.93	<b>30</b>	0427 0.64	<b>15</b>	0404 0.95	<b>30</b>	0546 1.15
	0943 2.48		1025 3.16		0954 2.64		1108 3.14		1107 2.76		1250 2.86
TU	1540 1.19	WE	1630 0.90	TH	1552 1.43	FR	1741 1.33	SU	1750 1.66	MO	2042 1.46
	2157 2.62		2232 2.88		2144 2.39		2300 2.31		2250 2.06		
				<b>31</b>	0520 0.92		1214 2.91				
				SA	1935 1.47						
										<b>31</b>	0129 1.89
											0647 1.64
											TH 1358 2.55
											2218 1.49

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon    ☽ First Quarter    ☽ Full Moon    ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – MOURILYAN HARBOUR

LAT 17° 36' S LONG 146° 07' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0036 0.66	<b>16</b>	0642 2.55
	0711 2.80		1241 1.46
TH	1317 1.26	FR	1806 2.32
	1852 2.41		
<b>2</b>	0112 0.60	<b>17</b>	0023 0.77
	0749 2.92		0709 2.78
FR	1358 1.22	SA	1314 1.32
	1930 2.38		1845 2.43
<b>3</b>	0145 0.57	<b>18</b>	0057 0.58
	0825 2.97		0742 3.00
SA	1434 1.22	SU	1351 1.17
	2005 2.34		1926 2.55
<b>4</b>	0216 0.58	<b>19</b>	0135 0.41
	0858 2.98		0819 3.19
SU	1507 1.24	MO	1430 1.04
	2037 2.29		2009 2.64
<b>5</b>	0246 0.63	<b>20</b>	0215 0.30
	0929 2.94		0858 3.32
MO	1539 1.28	TU	1511 0.96
	2108 2.22	●	2053 2.68
<b>6</b>	0316 0.73	<b>21</b>	0256 0.27
	1000 2.86		0939 3.37
TU	1611 1.34	WE	1554 0.93
	2138 2.14		2138 2.67
<b>7</b>	0343 0.85	<b>22</b>	0339 0.35
	1030 2.75		1022 3.31
WE	1644 1.42	TH	1640 0.96
	2206 2.04		2225 2.59
<b>8</b>	0409 1.01	<b>23</b>	0425 0.55
	1100 2.62		1106 3.16
TH	1719 1.50	FR	1732 1.04
	2233 1.93		2318 2.45
<b>9</b>	0432 1.18	<b>24</b>	0516 0.84
	1131 2.48		1155 2.92
FR	1800 1.57	SA	1833 1.14
	2306 1.82		
<b>10</b>	0457 1.37	<b>25</b>	0023 2.28
	1205 2.34		0618 1.18
SA	1915 1.61	SU	1254 2.64
	2357 1.71		1951 1.21
<b>11</b>	0527 1.56	<b>26</b>	0159 2.17
	1254 2.20		0748 1.49
SU	2202 1.53	MO	1417 2.39
			2128 1.19
<b>12</b>	0509 1.76	<b>27</b>	0409 2.27
	0642 1.76		1003 1.61
MO	1445 2.11	TU	1558 2.26
	2245 1.42	●	2250 1.08
<b>13</b>	0550 1.96	<b>28</b>	0538 2.49
	1035 1.79		1147 1.52
TU	1604 2.11	WE	1716 2.26
●	2310 1.29		2346 0.95
<b>14</b>	0609 2.15	<b>29</b>	0631 2.70
	1134 1.70		1245 1.40
WE	1651 2.15	TH	1810 2.29
	2330 1.14		
<b>15</b>	0624 2.34	<b>30</b>	0029 0.84
	1211 1.59		0711 2.85
TH	1729 2.22	FR	1325 1.31
	2353 0.97		1852 2.33
		<b>31</b>	0106 0.76
			0744 2.94
			SA 1357 1.26
			1927 2.37

## FEBRUARY

Time	m	Time	m
<b>1</b>	0138 0.72	<b>16</b>	0042 0.66
	0814 2.98		0723 3.12
SU	1425 1.24	MO	1336 1.08
	1958 2.39		1917 2.67
<b>2</b>	0207 0.72	<b>17</b>	0121 0.46
	0842 2.98		0801 3.32
MO	1451 1.24	TU	1413 0.91
	2027 2.39		1959 2.83
<b>3</b>	0234 0.75	<b>18</b>	0202 0.33
	0908 2.95		0839 3.45
TU	1516 1.26	WE	1451 0.80
	2054 2.38		2042 2.93
<b>4</b>	0300 0.81	<b>19</b>	0243 0.30
	0933 2.89		0918 3.47
WE	1540 1.29	TH	1531 0.75
○	2119 2.34	●	2126 2.96
<b>5</b>	0322 0.91	<b>20</b>	0326 0.40
	0957 2.81		0957 3.38
TH	1602 1.34	FR	1611 0.78
	2143 2.28		2211 2.89
<b>6</b>	0343 1.03	<b>21</b>	0411 0.62
	1021 2.70		1038 3.17
FR	1626 1.39	SA	1656 0.88
	2208 2.21		2300 2.74
<b>7</b>	0405 1.18	<b>22</b>	0500 0.94
	1044 2.57		1122 2.87
SA	1654 1.44	SU	1747 1.04
	2237 2.12		2358 2.54
<b>8</b>	0430 1.35	<b>23</b>	0600 1.31
	1109 2.43		1212 2.52
SU	1727 1.50	MO	1852 1.22
	2314 2.01		
<b>9</b>	0458 1.55	<b>24</b>	0126 2.36
	1138 2.27		0734 1.63
MO	1814 1.56	TU	1330 2.20
			2033 1.33
<b>10</b>	0009 1.91	<b>25</b>	0352 2.38
	0534 1.75		1038 1.67
TU	1215 2.12	WE	1550 2.07
	1937 1.59		2223 1.27
<b>11</b>	0449 1.97	<b>26</b>	0527 2.57
	1011 1.90		1205 1.50
WE	1351 1.99	TH	1721 2.13
	2159 1.49	●	2330 1.15
<b>12</b>	0532 2.18	<b>27</b>	0619 2.74
	1129 1.78		1250 1.36
TH	1616 2.02	FR	1812 2.23
●	2248 1.32		
<b>13</b>	0556 2.40	<b>28</b>	0016 1.03
	1202 1.63		0655 2.85
FR	1709 2.14	SA	1319 1.28
	2326 1.12		1848 2.32
<b>14</b>	0619 2.63	<b>29</b>	0619 2.63
	1230 1.46		1230 1.46
SA	1753 2.30		
		<b>30</b>	0003 0.89
			0649 2.88
		SU	1301 1.27
			1835 2.48

## MARCH

Time	m	Time	m
<b>1</b>	0052 0.95	<b>16</b>	0623 2.95
	0724 2.91		1243 1.16
SU	1343 1.23	MO	1824 2.52
	1919 2.40		
<b>2</b>	0123 0.90	<b>17</b>	0024 0.78
	0751 2.94		0659 3.17
MO	1405 1.20	TU	1316 0.95
	1947 2.46		1906 2.76
<b>3</b>	0151 0.89	<b>18</b>	0105 0.59
	0815 2.93		0737 3.34
TU	1425 1.19	WE	1351 0.77
	2013 2.50		1947 2.96
<b>4</b>	0216 0.91	<b>19</b>	0147 0.47
	0839 2.91		0815 3.42
WE	1446 1.19	TH	1427 0.64
	2037 2.52		2029 3.10
<b>5</b>	0239 0.95	<b>20</b>	0228 0.47
	0900 2.86		0853 3.39
TH	1505 1.19	FR	1505 0.58
	2100 2.52	●	2112 3.15
<b>6</b>	0259 1.02	<b>21</b>	0312 0.58
	0921 2.79		0931 3.25
FR	1524 1.20	SA	1543 0.62
○	2123 2.50		2156 3.09
<b>7</b>	0320 1.12	<b>22</b>	0357 0.80
	0942 2.70		1010 3.01
SA	1545 1.22	SU	1624 0.74
	2148 2.46		2243 2.94
<b>8</b>	0344 1.24	<b>23</b>	0447 1.11
	1004 2.58		1052 2.69
SU	1609 1.25	MO	1710 0.94
	2218 2.40		2338 2.73
<b>9</b>	0412 1.39	<b>24</b>	0550 1.44
	1028 2.44		1139 2.33
MO	1637 1.31	TU	1805 1.17
	2253 2.31		
<b>10</b>	0444 1.57	<b>25</b>	0059 2.52
	1055 2.28		0739 1.69
TU	1712 1.39	WE	1250 2.01
	2339 2.20		1931 1.37
<b>11</b>	0529 1.77	<b>26</b>	0317 2.48
	1127 2.11		1050 1.61
WE	1800 1.48	TH	1542 1.90
			2137 1.42
<b>12</b>	0102 2.11	<b>27</b>	0453 2.59
	1003 1.91		1159 1.43
TH	1224 1.94	FR	1721 2.03
	1938 1.54	●	2300 1.34
<b>13</b>	0426 2.26	<b>28</b>	0547 2.70
	1119 1.74		1235 1.30
FR	1546 1.92	SA	1806 2.17
	2152 1.44		2351 1.24
<b>14</b>	0514 2.48	<b>29</b>	0623 2.77
	1148 1.56		1259 1.23
SA	1654 2.08	SU	1838 2.29
●	2254 1.24		
<b>15</b>	0548 2.71	<b>30</b>	0029 1.16
	1214 1.37		0652 2.81
SU	1741 2.29	MO	1318 1.18
	2341 1.01		1905 2.39
		<b>31</b>	0101 1.11
			0718 2.82
			TU 1337 1.14
			1931 2.47

## APRIL

Time	m	Time	m
<b>1</b>	0129 1.09	<b>16</b>	0050 0.78
	0742 2.82		0711 3.19
WE	1355 1.11	TH	1329 0.64
	1956 2.54		1936 3.00
<b>2</b>	0154 1.10	<b>17</b>	0133 0.71
	0804 2.79		0749 3.21
TH	1413 1.08	FR	1404 0.52
	2019 2.59		2018 3.15
<b>3</b>	0217 1.12	<b>18</b>	0217 0.72
	0825 2.75		0827 3.14
FR	1430 1.06	SA	1440 0.48
	2041 2.63		2100 3.20
<b>4</b>	0239 1.17	<b>19</b>	0301 0.83
	0845 2.69		0906 2.97
SA	1448 1.03	SU	1518 0.52
○	2105 2.65	●	2144 3.16
<b>5</b>	0302 1.23	<b>20</b>	0349 1.01
	0906 2.61		0945 2.73
SU	1509 1.02	MO	1558 0.65
	2132 2.65		2230 3.03
<b>6</b>	0329 1.32	<b>21</b>	0441 1.25
	0930 2.51		1028 2.44
MO	1535 1.03	TU	1642 0.85
	2203 2.62		2323 2.84
<b>7</b>	0402 1.44	<b>22</b>	0546 1.48
	0957 2.38		1114 2.14
TU	1604 1.09	WE	1732 1.09
	2239 2.55		
<b>8</b>	0442 1.59	<b>23</b>	0035 2.64
	1028 2.22		0745 1.63
WE	1639 1.18	TH	1221 1.87
	2326 2.45		1838 1.33
<b>9</b>	0541 1.75	<b>24</b>	0222 2.52
	1108 2.04		1026 1.53
TH	1724 1.31	FR	1505 1.77
			2028 1.48
<b>10</b>	0036 2.35	<b>25</b>	0357 2.53
	0921 1.79		1129 1.39
FR	1219 1.87	SA	1703 1.91
	1839 1.43		2209 1.48
<b>11</b>	0316 2.39	<b>26</b>	0459 2.57
	1042 1.62		1204 1.28
SA	1516 1.86	SU	1751 2.06
	2055 1.44	●	2313 1.42
<b>12</b>	0425 2.56	<b>27</b>	0541 2.61

# AUSTRALIA, EAST COAST – MOURILYAN HARBOUR

LAT 17° 36' S LONG 146° 07' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0132 1.27	<b>16</b>	0128 0.95	<b>1</b>	0208 1.32	<b>16</b>	0301 1.11	<b>1</b>	0231 1.18	<b>16</b>	0330 1.12	<b>1</b>	0333 0.84	<b>16</b>	0355 1.12
	0728 2.61		0728 2.88		0744 2.39		0836 2.37		0802 2.34		0903 2.20		0917 2.51		0941 2.14
FR	1340 0.98	SA	1344 0.47	MO	1352 0.70	TU	1447 0.51	WE	1409 0.48	TH	1510 0.61	SA	1517 0.30	SU	1540 0.91
	2001 2.60		2010 3.09		2035 2.79		2131 3.04		2057 2.97		2151 2.88		2159 3.16		2212 2.56
<b>2</b>	0157 1.27	<b>17</b>	0213 0.96	<b>2</b>	0241 1.28	<b>17</b>	0343 1.16	<b>2</b>	0309 1.11	<b>17</b>	0404 1.16	<b>2</b>	0416 0.82	<b>17</b>	0419 1.18
	0749 2.58		0808 2.78		0815 2.37		0915 2.26		0843 2.35		0937 2.13		1004 2.48		1008 2.06
SA	1357 0.91	SU	1421 0.45	TU	1422 0.64	WE	1525 0.60	TH	1448 0.43	FR	1542 0.73	SU	1602 4.43	MO	1603 1.06
	2024 2.68		2053 3.15		2108 2.87		2210 2.96		2136 3.04		2223 2.77		2241 3.05		2235 2.41
<b>3</b>	0222 1.28	<b>18</b>	0259 1.03	<b>3</b>	0319 1.27	<b>18</b>	0427 1.24	<b>3</b>	0352 1.08	<b>18</b>	0437 1.23	<b>3</b>	0503 0.86	<b>18</b>	0445 1.24
	0811 2.54		0847 2.64		0851 2.33		0954 2.13		0927 2.34		1010 2.03		1054 2.39		1037 1.97
SU	1417 0.86	MO	1459 0.49	WE	1458 0.62	TH	1604 0.74	FR	1530 0.46	SA	1613 0.89	MO	1651 0.65	TU	1628 1.24
	2049 2.74		2136 3.12		2146 2.90		2250 2.83		2218 3.04		2254 2.62		2326 2.86		2258 2.25
<b>4</b>	0249 1.30	<b>19</b>	0346 1.14	<b>4</b>	0402 1.29	<b>19</b>	0514 1.33	<b>4</b>	0440 1.08	<b>19</b>	0513 1.31	<b>4</b>	0559 0.94	<b>19</b>	0517 1.31
	0836 2.48		0927 2.45		0932 2.26		1036 1.98		1015 2.27		1043 1.92		1153 2.26		1113 1.86
MO	1441 0.82	TU	1539 0.61	TH	1536 0.67	FR	1642 0.93	SA	1615 0.56	SU	1640 1.07	TU	1748 0.95	WE	1658 1.43
	2119 2.78		2221 3.02		2228 2.88		2332 2.67		2303 2.97		2324 2.46		2325 2.09		2325 2.09
<b>5</b>	0322 1.35	<b>20</b>	0437 1.28	<b>5</b>	0453 1.33	<b>20</b>	0610 1.42	<b>5</b>	0534 1.11	<b>20</b>	0552 1.39	<b>5</b>	0018 2.60	<b>20</b>	0559 1.37
	0905 2.40		1009 2.23		1019 2.15		1120 1.83		1109 2.18		1119 1.81		0708 1.02		1207 1.77
TU	1511 0.82	WE	1621 0.79	FR	1621 0.77	SA	1720 1.13	SU	1706 0.74	MO	1708 1.26	WE	1313 2.14	TH	1739 1.62
	2153 2.77		2310 2.86		2316 2.82				2353 2.84		2356 2.30		1905 1.26		2357 1.92
<b>6</b>	0402 1.42	<b>21</b>	0537 1.43	<b>6</b>	0558 1.37	<b>21</b>	0019 2.50	<b>6</b>	0640 1.14	<b>21</b>	0647 1.45	<b>6</b>	0128 2.32	<b>21</b>	0711 1.41
	0939 2.29		1056 2.01		1115 2.03		0735 1.47		1212 2.08		1208 1.70		0834 1.04		1630 1.84
WE	1545 0.88	TH	1706 1.01	SA	1713 0.92	SU	1219 1.71	MO	1805 0.97	TU	1741 1.46	TH	1508 2.15	FR	2225 1.73
	2232 2.73				1801 1.34				2102 1.45				2102 1.45		
<b>7</b>	0450 1.52	<b>22</b>	0006 2.68	<b>7</b>	0014 2.73	<b>22</b>	0118 2.34	<b>7</b>	0052 2.67	<b>22</b>	0035 2.14	<b>7</b>	0308 2.14	<b>22</b>	0059 1.78
	1019 2.15		0708 1.53		0725 1.37		0925 1.44		0758 1.13		0859 1.44		1003 0.97		0946 1.34
TH	1625 0.98	FR	1154 1.81	SU	1228 1.93	MO	1437 1.66	TU	1338 2.02	WE	1553 1.69	FR	1651 2.33	SA	1720 2.02
	2321 2.64		1758 1.23		1818 1.10		1902 1.53		1921 1.21		1838 1.65		2308 1.40		2335 1.60
<b>8</b>	0601 1.61	<b>23</b>	0120 2.52	<b>8</b>	0128 2.64	<b>23</b>	0235 2.23	<b>8</b>	0206 2.50	<b>23</b>	0151 2.00	<b>8</b>	0439 2.10	<b>23</b>	0413 1.79
	1111 1.99		0929 1.49		0851 1.29		1028 1.35		0917 1.06		1011 1.35		1110 0.85		1035 1.20
FR	1715 1.12	SA	1347 1.70	MO	1408 1.92	TU	1651 1.78	WE	1520 2.09	TH	1722 1.86	SA	1758 2.54	SU	1746 2.21
			1911 1.43		1944 1.25		2114 1.64		2059 1.37		2223 1.71				
<b>9</b>	0028 2.56	<b>24</b>	0245 2.43	<b>9</b>	0248 2.60	<b>24</b>	0347 2.18	<b>9</b>	0328 2.39	<b>24</b>	0344 1.95	<b>9</b>	0018 1.26	<b>24</b>	0005 1.47
	0818 1.60		1042 1.39		0959 1.14		1106 1.26		1025 0.94		1050 1.24		0543 2.13		0501 1.89
SA	1231 1.85	SU	1618 1.77	TU	1541 2.05	WE	1746 1.94	TH	1649 2.27	FR	1758 2.03	SU	1201 0.73	MO	1110 1.03
	1826 1.27		2056 1.55		2116 1.32		2248 1.63		2242 1.40		2335 1.63		1845 2.71		1809 2.40
<b>10</b>	0213 2.54	<b>25</b>	0357 2.40	<b>10</b>	0358 2.59	<b>25</b>	0440 2.17	<b>10</b>	0440 2.33	<b>25</b>	0440 1.96	<b>10</b>	0104 1.15	<b>25</b>	0026 1.33
	0949 1.46		1122 1.29		1051 0.98		1132 1.16		1121 0.80		1117 1.12		0631 2.18		0539 2.02
SU	1441 1.86	MO	1726 1.92	WE	1654 2.26	TH	1818 2.10	FR	1755 2.49	SA	1820 2.20	MO	1243 0.64	TU	1144 0.84
	2013 1.35		2223 1.55		2238 1.31		2346 1.58						1923 2.83		1834 2.61
<b>11</b>	0336 2.61	<b>26</b>	0450 2.40	<b>11</b>	0456 2.60	<b>26</b>	0519 2.17	<b>11</b>	0000 1.32	<b>26</b>	0014 1.53	<b>11</b>	0140 1.07	<b>26</b>	0050 1.17
	1041 1.27		1148 1.20		1136 0.81		1154 1.06		0540 2.31		0520 2.01		0710 2.22		0617 2.19
MO	1609 2.03	TU	1805 2.07	TH	1752 2.49	FR	1841 2.25	SA	1208 0.68	SU	1142 0.98	TU	1320 0.58	WE	1220 0.63
	2144 1.31		2323 1.51		2347 1.24				1846 2.69		1838 2.37		1957 2.88		1904 2.82
<b>12</b>	0434 2.72	<b>27</b>	0529 2.41	<b>12</b>	0547 2.60	<b>27</b>	0026 1.51	<b>12</b>	0056 1.22	<b>27</b>	0042 1.42	<b>12</b>	0212 1.03	<b>27</b>	0118 0.99
	1121 1.08		1210 1.13		1217 0.67		0550 2.18		0629 2.31		0555 2.08		0745 2.25		0656 2.36
TU	1709 2.27	WE	1833 2.21	FR	1842 2.71	SA	1214 0.96	SU	1250 0.59	MO	1209 0.82	WE	1353 0.57	TH	1258 0.44
	2253 1.20				1902 2.39				1930 2.84		1901 2.56		2027 2.88		1939 3.02
<b>13</b>	0522 2.82	<b>28</b>	0008 1.47	<b>13</b>	0044 1.17	<b>28</b>	0057 1.44	<b>13</b>	0142 1.14	<b>28</b>	0109 1.29	<b>13</b>	0239 1.03	<b>28</b>	0152 0.82
	1158 0.88		0600 2.41		0633 2.57		0619 2.21		0713 2.30		0631 2.18		0817 2.26		0737 2.53
WE	1758 2.52	TH	1230 1.05	SA	1256 0.56	SU	1236 0.84	MO	1328 0.53	TU	1240 0.65	TH	1422 0.60	FR	1338 0.29
	2350 1.09		1858 2.34		1927 2.88		1923 2.54		2009 2.94		1929 2.75		2056 2.85		2016 3.16
<b>14</b>	0607 2.89	<b>29</b>	0043 1.43	<b>14</b>	0133 1.12	<b>29</b>	0125 1.36	<b>14</b>	0221 1.10	<b>29</b>	0139 1.16	<b>14</b>	0305 1.04	<b>29</b>	0229 0.68
	1233 0.71		0626 2.40		0716 2.53		0650 2.25		0752 2.29		0709 2.29		0846 2.24		0820 2.66
TH	1844 2.76	FR	1248 0.97	SU	1333 0.49	MO	1302 0.70	TU	1403 0.51	WE	1316 0.48	FR	1451 0.67	SA	1419 0.23
			1920 2.45		2010 3.00		1949 2.70		2045 2.97		2003 2.93		2122 2.78		2054 3.23
<b>15</b>	0040 1.00	<b>30</b>	0113 1.39	<b>15</b>	0218 1.10	<b>30</b>	0156 1.27	<b>15</b>	0257 1.09	<b>30</b>	0214 1.02	<b>15</b>	0331 1.08	<b>30</b>	0307 0.59
	0648 2.91		0651 2.40		0756 2.47		0724 2.30		0828 2.25		0750 2.40		0914 2.20		0902 2.73
FR	1309 0.56	SA	1306 0.89	MO	1410 0.47	TU	1333 0.58	WE	1437 0.54	TH	1354 0.35	SA	1517 0.77	SU	1501 0.28
	1928 2.96		1942 2.57		2051 3.05		2021 2.85		2119 2.95		2039 3.08		2147 2.68		2133 3.18
<b>31</b>	0140 1.35									<b>31</b>	0252 0.91			<b>31</b>	0347 0.58
	0716 2.39										0833 2.48				0947 2.71
	SU 1327 0.79										FR 1435 0.28				MO 1546 0.44
	2007 2.69										2119 3.16				2213 3.02

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, EAST COAST – CAIRNS

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0031 0.57 0720 2.80 TH 1306 1.19 1907 2.39	<b>16</b>	0645 2.51 1233 1.41 FR 1814 2.29
<b>2</b>	0111 0.49 0801 2.93 FR 1349 1.14 1946 2.35	<b>17</b>	0028 0.70 0716 2.74 SA 1309 1.26 1853 2.39
<b>3</b>	0148 0.46 0839 2.99 SA 1427 1.13 2019 2.30	<b>18</b>	0105 0.51 0753 2.96 SU 1347 1.10 1934 2.49
<b>4</b>	0223 0.47 0912 2.99 SU 1503 1.15 2048 2.24	<b>19</b>	0144 0.34 0832 3.14 MO 1427 0.97 2015 2.56
<b>5</b>	0257 0.53 0943 2.93 MO 1538 1.20 ○ 2117 2.18	<b>20</b>	0224 0.22 0912 3.27 TU 1509 0.89 ● 2057 2.60
<b>6</b>	0329 0.64 1013 2.85 TU 1612 1.27 2144 2.09	<b>21</b>	0307 0.20 0952 3.31 WE 1552 0.85 2141 2.59
<b>7</b>	0359 0.78 1041 2.73 WE 1646 1.36 2210 2.00	<b>22</b>	0350 0.28 1032 3.25 TH 1637 0.88 2229 2.51
<b>8</b>	0426 0.94 1108 2.60 TH 1719 1.45 2237 1.89	<b>23</b>	0436 0.47 1115 3.10 FR 1726 0.97 2323 2.37
<b>9</b>	0451 1.12 1136 2.46 FR 1756 1.52 2311 1.78	<b>24</b>	0524 0.76 1204 2.86 SA 1822 1.09
<b>10</b>	0520 1.31 1208 2.32 SA 1848 1.57	<b>25</b>	0030 2.21 0621 1.11 SU 1303 2.59 1939 1.18
<b>11</b>	0003 1.68 0555 1.51 SU 1252 2.18 2209 1.50	<b>26</b>	0202 2.12 0743 1.44 MO 1424 2.35 2126 1.15
<b>12</b>	0458 1.73 0647 1.70 MO 1415 2.08 2240 1.37	<b>27</b>	0406 2.21 0956 1.55 TU 1603 2.24 ● 2242 1.01
<b>13</b>	0534 1.92 1026 1.74 TU 1620 2.08 ● 2303 1.23	<b>28</b>	0536 2.46 1128 1.46 WE 1723 2.25 2338 0.86
<b>14</b>	0558 2.11 1121 1.65 WE 1701 2.13 2327 1.08	<b>29</b>	0630 2.70 1228 1.33 TH 1819 2.30
<b>15</b>	0619 2.30 1158 1.54 TH 1736 2.20 2355 0.90	<b>30</b>	0024 0.73 0713 2.87 FR 1311 1.22 1904 2.34
		<b>31</b>	0104 0.63 0751 2.98 SA 1346 1.15 1942 2.37

## FEBRUARY

Time	m	Time	m
<b>1</b>	0140 0.58 0825 3.02 SU 1418 1.12 2013 2.38	<b>16</b>	0047 0.59 0734 3.07 MO 1331 1.02 1924 2.60
<b>2</b>	0213 0.57 0855 3.01 MO 1448 1.12 2040 2.37	<b>17</b>	0130 0.38 0814 3.27 TU 1411 0.84 2007 2.74
<b>3</b>	0244 0.61 0922 2.97 TU 1517 1.15 2104 2.35	<b>18</b>	0212 0.25 0853 3.39 WE 1451 0.71 2050 2.84
<b>4</b>	0312 0.69 0946 2.89 WE 1543 1.19 ○ 2126 2.31	<b>19</b>	0254 0.22 0931 3.41 TH 1531 0.66 ● 2133 2.87
<b>5</b>	0337 0.81 1006 2.80 TH 1608 1.25 2148 2.25	<b>20</b>	0337 0.31 1009 3.31 FR 1613 0.68 2218 2.81
<b>6</b>	0401 0.94 1027 2.68 FR 1632 1.30 2213 2.18	<b>21</b>	0421 0.53 1048 3.10 SA 1657 0.79 2308 2.66
<b>7</b>	0425 1.10 1049 2.56 SA 1701 1.36 2243 2.10	<b>22</b>	0508 0.86 1131 2.80 SU 1746 0.97
<b>8</b>	0452 1.28 1115 2.42 SU 1734 1.42 2321 1.99	<b>23</b>	0007 2.47 0603 1.24 MO 1224 2.46 1847 1.17
<b>9</b>	0523 1.48 1145 2.26 MO 1813 1.48	<b>24</b>	0132 2.30 0728 1.58 TU 1345 2.15 2039 1.28
<b>10</b>	0014 1.88 0602 1.68 TU 1221 2.10 1906 1.52	<b>25</b>	0357 2.34 1015 1.62 WE 1559 2.05 2219 1.19
<b>11</b>	0457 1.91 0954 1.87 WE 1335 1.96 2202 1.45	<b>26</b>	0524 2.56 1153 1.45 TH 1722 2.14 ● 2323 1.04
<b>12</b>	0527 2.12 1106 1.75 TH 1624 1.98 ● 2247 1.27	<b>27</b>	0614 2.75 1232 1.29 FR 1814 2.25
<b>13</b>	0550 2.33 1143 1.60 FR 1713 2.10 2327 1.06	<b>28</b>	0010 0.90 0655 2.89 SA 1301 1.18 1855 2.35
<b>14</b>	0619 2.57 1217 1.42 SA 1756 2.25	<b>15</b>	0007 0.82 0654 2.83 SU 1253 1.22 1840 2.42

## MARCH

Time	m	Time	m
<b>1</b>	0049 0.80 0730 2.96 SU 1329 1.10 1930 2.43	<b>16</b>	0628 2.89 1234 1.11 MO 1827 2.46
<b>2</b>	0124 0.74 0801 2.99 MO 1357 1.06 1959 2.48	<b>17</b>	0029 0.71 0709 3.11 TU 1312 0.88 1913 2.69
<b>3</b>	0156 0.73 0829 2.98 TU 1424 1.05 2024 2.50	<b>18</b>	0113 0.51 0750 3.27 WE 1351 0.68 1957 2.88
<b>4</b>	0224 0.75 0853 2.93 WE 1449 1.05 2048 2.51	<b>19</b>	0156 0.39 0829 3.35 TH 1429 0.54 2040 3.01
<b>5</b>	0251 0.82 0912 2.87 TH 1511 1.07 2109 2.51	<b>20</b>	0239 0.38 0905 3.32 FR 1509 0.48 ● 2122 3.06
<b>6</b>	0314 0.91 0931 2.79 FR 1532 1.09 ○ 2129 2.49	<b>21</b>	0321 0.49 0941 3.17 SA 1549 0.52 2206 3.01
<b>7</b>	0336 1.01 0949 2.70 SA 1556 1.12 2154 2.45	<b>22</b>	0406 0.71 1019 2.93 SU 1630 0.66 2254 2.87
<b>8</b>	0402 1.14 1010 2.58 SU 1623 1.15 2223 2.39	<b>23</b>	0454 1.03 1101 2.61 MO 1715 0.87 2349 2.67
<b>9</b>	0431 1.30 1035 2.44 MO 1653 1.21 2258 2.29	<b>24</b>	0549 1.37 1150 2.26 TU 1807 1.12
<b>10</b>	0505 1.48 1101 2.27 TU 1727 1.29 2341 2.18	<b>25</b>	0106 2.47 0732 1.64 WE 1309 1.95 1935 1.33
<b>11</b>	0546 1.67 1128 2.10 WE 1807 1.38	<b>26</b>	0326 2.44 1053 1.56 TH 1555 1.89 2142 1.34
<b>12</b>	0050 2.08 0943 1.88 TH 1207 1.93 1906 1.46	<b>27</b>	0453 2.59 1153 1.37 FR 1714 2.04 ● 2255 1.23
<b>13</b>	0432 2.18 1051 1.73 FR 1547 1.87 2153 1.40	<b>28</b>	0544 2.72 1214 1.23 SA 1802 2.19 2346 1.11
<b>14</b>	0509 2.41 1126 1.55 SA 1652 2.03 ● 2254 1.19	<b>29</b>	0625 2.81 1238 1.13 SU 1839 2.32
<b>15</b>	0547 2.65 1158 1.34 SU 1741 2.24 2343 0.95	<b>30</b>	0026 1.01 0659 2.86 MO 1304 1.05 1911 2.43
		<b>31</b>	0101 0.95 0728 2.87 TU 1330 0.99 1939 2.51

## APRIL

Time	m	Time	m
<b>1</b>	0132 0.93 0754 2.85 WE 1355 0.96 2006 2.57	<b>16</b>	0056 0.71 0723 3.12 TH 1329 0.55 1948 2.93
<b>2</b>	0201 0.94 0817 2.81 TH 1418 0.95 2029 2.61	<b>17</b>	0140 0.62 0803 3.13 FR 1407 0.43 2031 3.07
<b>3</b>	0227 0.98 0836 2.76 FR 1439 0.93 2051 2.64	<b>18</b>	0224 0.63 0839 3.05 SA 1446 0.38 2113 3.13
<b>4</b>	0250 1.04 0854 2.69 SA 1500 0.92 ○ 2113 2.65	<b>19</b>	0307 0.73 0915 2.89 SU 1526 0.43 ● 2156 3.09
<b>5</b>	0314 1.12 0913 2.62 SU 1524 0.91 2138 2.65	<b>20</b>	0352 0.92 0954 2.65 MO 1606 0.57 2242 2.97
<b>6</b>	0343 1.21 0936 2.51 MO 1552 0.93 2209 2.61	<b>21</b>	0441 1.17 1036 2.37 TU 1650 0.79 2334 2.78
<b>7</b>	0415 1.33 1002 2.38 TU 1622 0.99 2243 2.54	<b>22</b>	0540 1.43 1124 2.07 WE 1738 1.04
<b>8</b>	0452 1.47 1030 2.22 WE 1657 1.08 2325 2.44	<b>23</b>	0041 2.59 0739 1.59 TH 1238 1.82 1843 1.29
<b>9</b>	0539 1.63 1106 2.05 TH 1737 1.21	<b>24</b>	0229 2.49 1029 1.48 FR 1525 1.77 2043 1.41
<b>10</b>	0026 2.33 1831 1.33 FR	<b>25</b>	0404 2.53 1120 1.33 SA 1651 1.91 2212 1.38
<b>11</b>	0300 2.32 1018 1.62 SA 1507 1.81 2034 1.40	<b>26</b>	0501 2.59 1143 1.21 SU 1740 2.08 ● 2312 1.30
<b>12</b>	0420 2.50 1058 1.42 SU 1629 1.99 ● 2218 1.25	<b>27</b>	0543 2.64 1207 1.10 MO 1817 2.23 2357 1.22
<b>13</b>	0510 2.69 1134 1.20 MO 1723 2.22 2318 1.06	<b>28</b>	0619 2.67 1233 1.02 TU 1849 2.35
<b>14</b>	0557 2.88 1212 0.96 TU 1814 2.47	<b>29</b>	0034 1.16 0649 2.67 WE 1259 0.95 1918 2.46
<b>15</b>	0009 0.86 0641 3.03 WE 1250 0.74 1902 2.72	<b>30</b>	0106 1.13 0716 2.66 TH 1323 0.90 1944 2.55

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – CAIRNS

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0136 1.13 0739 2.62 FR 1345 0.85 2010 2.62	<b>16</b>	0129 0.87 0740 2.80 SA 1348 0.39 2027 3.04	<b>1</b>	0208 1.21 0753 2.38 MO 1405 0.62 2045 2.79	<b>16</b>	0253 1.03 0846 2.31 TU 1454 0.43 2144 3.01	<b>1</b>	0227 1.10 0808 2.30 WE 1420 0.41 2107 2.94	<b>16</b>	0325 1.02 0914 2.16 TH 1521 0.53 ● 2203 2.87	<b>1</b>	0331 0.75 0921 2.45 SA 1529 0.24 2209 3.11	<b>16</b>	0400 1.04 0950 2.12 SU 1558 0.84 2220 2.54
<b>2</b>	0202 1.14 0759 2.58 SA 1407 0.80 2033 2.69	<b>17</b>	0213 0.87 0818 2.70 SU 1427 0.36 2108 3.10	<b>2</b>	0241 1.18 0822 2.35 TU 1436 0.56 2117 2.85	<b>17</b>	0336 1.08 0924 2.20 WE 1534 0.53 ● 2221 2.93	<b>2</b>	0305 1.03 0846 2.31 TH 1459 0.37 ○ 2145 3.00	<b>17</b>	0401 1.08 0947 2.09 FR 1555 0.66 2233 2.75	<b>2</b>	0413 0.73 1007 2.43 SU 1613 0.36 2249 3.00	<b>17</b>	0425 1.11 1016 2.04 MO 1623 1.01 2240 2.40
<b>3</b>	0228 1.16 0820 2.54 SU 1430 0.75 2058 2.74	<b>18</b>	0258 0.94 0855 2.56 MO 1507 0.41 ● 2149 3.08	<b>3</b>	0316 1.17 0854 2.31 WE 1510 0.54 ○ 2152 2.88	<b>18</b>	0421 1.17 1004 2.08 TH 1614 0.68 2259 2.80	<b>3</b>	0347 0.99 0928 2.29 FR 1540 0.39 2225 3.00	<b>18</b>	0436 1.16 1019 2.00 SA 1628 0.82 2302 2.60	<b>3</b>	0458 0.77 1058 2.34 MO 1701 0.58 2332 2.81	<b>18</b>	0452 1.17 1044 1.96 TU 1650 1.19 2304 2.24
<b>4</b>	0256 1.18 0843 2.48 MO 1457 0.72 ○ 2126 2.77	<b>19</b>	0343 1.06 0935 2.38 TU 1548 0.54 2232 2.98	<b>4</b>	0356 1.19 0931 2.24 TH 1549 0.58 2232 2.86	<b>19</b>	0508 1.27 1045 1.93 FR 1653 0.87 2340 2.64	<b>4</b>	0431 1.00 1013 2.24 SA 1625 0.48 2308 2.93	<b>19</b>	0511 1.25 1051 1.89 SU 1657 1.01 2329 2.43	<b>4</b>	0548 0.86 1158 2.22 TU 1752 0.88	<b>19</b>	0523 1.24 1122 1.86 WE 1722 1.37 2332 2.08
<b>5</b>	0328 1.23 0910 2.40 TU 1527 0.73 2158 2.76	<b>20</b>	0432 1.21 1018 2.17 WE 1630 0.73 2319 2.82	<b>5</b>	0441 1.24 1013 2.14 FR 1631 0.68 2317 2.79	<b>20</b>	0602 1.37 1129 1.79 SA 1732 1.08	<b>5</b>	0521 1.03 1107 2.15 SU 1713 0.65 2357 2.80	<b>20</b>	0548 1.33 1125 1.78 MO 1727 1.21 2358 2.27	<b>5</b>	0024 2.55 0650 0.97 WE 1316 2.11 1858 1.20	<b>20</b>	0600 1.30 TH
<b>6</b>	0404 1.30 0940 2.29 WE 1601 0.78 2235 2.71	<b>21</b>	0529 1.38 1106 1.95 TH 1715 0.96	<b>6</b>	0535 1.30 1106 2.02 SA 1719 0.83	<b>21</b>	0024 2.46 0721 1.43 SU 1225 1.67 1814 1.29	<b>6</b>	0619 1.08 1213 2.05 MO 1806 0.89	<b>21</b>	0631 1.40 1210 1.69 TU 1800 1.40	<b>6</b>	0135 2.28 0826 1.01 TH 1459 2.12 2100 1.40	<b>21</b>	0005 1.91 0647 1.35 FR 1637 1.81 2218 1.70
<b>7</b>	0445 1.40 1016 2.15 TH 1639 0.88 2320 2.63	<b>22</b>	0013 2.64 0657 1.49 FR 1206 1.76 1806 1.19	<b>7</b>	0013 2.69 0648 1.34 SU 1220 1.90 1816 1.01	<b>22</b>	0121 2.30 0919 1.40 MO 1456 1.64 1911 1.47	<b>7</b>	0055 2.63 0735 1.10 TU 1338 1.99 1913 1.14	<b>22</b>	0033 2.11 0900 1.41 WE 1616 1.67 1848 1.59	<b>7</b>	0310 2.11 0956 0.92 FR 1647 2.30 ● 2248 1.36	<b>22</b>	0058 1.76 0945 1.32 SA 1713 1.98 2322 1.59
<b>8</b>	0537 1.52 1101 1.99 FR 1723 1.02	<b>23</b>	0125 2.48 0914 1.45 SA 1408 1.67 1921 1.38	<b>8</b>	0126 2.60 0834 1.27 MO 1403 1.88 1931 1.19	<b>23</b>	0250 2.20 1019 1.30 TU 1642 1.78 2121 1.58	<b>8</b>	0208 2.46 0906 1.04 WE 1512 2.05 2055 1.33	<b>23</b>	0127 1.97 1009 1.31 TH 1708 1.84 2218 1.66	<b>8</b>	0442 2.08 1101 0.79 SA 1755 2.53	<b>23</b>	0425 1.75 1032 1.17 SU 1739 2.16 ● 2348 1.45
<b>9</b>	0020 2.53 0709 1.59 SA 1210 1.84 1820 1.18	<b>24</b>	0255 2.41 1026 1.34 SU 1611 1.77 2107 1.48	<b>9</b>	0246 2.55 0945 1.12 TU 1534 2.00 2111 1.28	<b>24</b>	0402 2.17 1056 1.20 WE 1729 1.94 ● 2247 1.55	<b>9</b>	0327 2.35 1016 0.90 TH 1644 2.22 ● 2235 1.34	<b>24</b>	0406 1.92 1044 1.20 FR 1742 2.01 ● 2322 1.58	<b>9</b>	0000 1.22 0549 2.12 SU 1154 0.66 1846 2.72	<b>24</b>	0503 1.85 1109 1.00 MO 1805 2.35
<b>10</b>	0201 2.48 0933 1.45 SU 1433 1.82 1953 1.29	<b>25</b>	0405 2.40 1103 1.23 MO 1712 1.93 2228 1.46	<b>10</b>	0356 2.55 1039 0.95 WE 1649 2.20 ● 2238 1.25	<b>25</b>	0450 2.17 1124 1.09 TH 1804 2.09 2339 1.49	<b>10</b>	0442 2.30 1112 0.76 FR 1756 2.46 2346 1.26	<b>25</b>	0452 1.95 1113 1.07 SA 1809 2.17	<b>10</b>	0049 1.08 0641 2.18 MO 1240 0.55 1930 2.86	<b>25</b>	0011 1.30 0541 1.99 TU 1146 0.80 1836 2.56
<b>11</b>	0330 2.56 1023 1.26 MO 1601 1.98 ● 2140 1.27	<b>26</b>	0455 2.42 1133 1.12 TU 1753 2.08 ● 2323 1.41	<b>11</b>	0458 2.55 1127 0.77 TH 1756 2.44 2343 1.18	<b>26</b>	0527 2.18 1150 0.99 FR 1833 2.24	<b>11</b>	0548 2.28 1201 0.62 SA 1852 2.67	<b>26</b>	0000 1.48 0527 1.99 SU 1141 0.93 1835 2.34	<b>11</b>	0128 0.99 0724 2.22 TU 1320 0.48 2008 2.92	<b>26</b>	0040 1.13 0620 2.14 WE 1226 0.60 1912 2.78
<b>12</b>	0431 2.67 1107 1.05 TU 1705 2.21 2254 1.15	<b>27</b>	0534 2.43 1200 1.03 WE 1826 2.22	<b>12</b>	0554 2.54 1212 0.61 FR 1852 2.66	<b>27</b>	0017 1.43 0558 2.19 SA 1215 0.88 1900 2.39	<b>12</b>	0043 1.16 0642 2.28 SU 1246 0.51 1939 2.84	<b>27</b>	0030 1.37 0601 2.06 MO 1213 0.77 1904 2.53	<b>12</b>	0202 0.93 0801 2.24 WE 1356 0.46 2041 2.92	<b>27</b>	0113 0.94 0702 2.31 TH 1306 0.40 1951 2.97
<b>13</b>	0524 2.76 1148 0.84 WE 1802 2.46 2353 1.03	<b>28</b>	0005 1.35 0607 2.43 TH 1226 0.95 1855 2.35	<b>13</b>	0037 1.10 0645 2.52 SA 1254 0.49 1942 2.85	<b>28</b>	0049 1.36 0628 2.20 SU 1241 0.76 1928 2.54	<b>13</b>	0130 1.07 0728 2.27 MO 1328 0.44 2021 2.95	<b>28</b>	0100 1.23 0638 2.15 TU 1247 0.59 1937 2.72	<b>13</b>	0234 0.91 0832 2.24 TH 1431 0.49 2110 2.87	<b>28</b>	0151 0.75 0744 2.46 FR 1349 0.25 2029 3.11
<b>14</b>	0614 2.82 1228 0.65 TH 1854 2.70	<b>29</b>	0041 1.31 0636 2.42 FR 1250 0.87 1923 2.47	<b>14</b>	0125 1.04 0730 2.47 SU 1335 0.41 2025 2.98	<b>29</b>	0119 1.27 0659 2.23 MO 1311 0.63 1958 2.69	<b>14</b>	0210 1.02 0808 2.25 TU 1407 0.42 2058 2.98	<b>29</b>	0134 1.09 0716 2.25 WE 1325 0.43 2014 2.90	<b>14</b>	0304 0.93 0900 2.22 FR 1502 0.57 2136 2.79	<b>29</b>	0229 0.60 0827 2.59 SA 1431 0.18 2107 3.17
<b>15</b>	0043 0.92 0659 2.84 FR 1309 0.49 1942 2.90	<b>30</b>	0111 1.27 0701 2.40 SA 1313 0.79 1949 2.58	<b>15</b>	0210 1.01 0809 2.40 MO 1415 0.39 2106 3.03	<b>30</b>	0151 1.18 0732 2.27 TU 1344 0.51 2032 2.83	<b>15</b>	0248 1.00 0842 2.21 WE 1444 0.45 2132 2.95	<b>30</b>	0211 0.94 0757 2.35 TH 1406 0.30 2052 3.04	<b>15</b>	0333 0.98 0926 2.18 SA 1531 0.69 ● 2159 2.67	<b>30</b>	0309 0.51 0910 2.65 SU 1514 0.22 ○ 2145 3.12
		<b>31</b>	0139 1.24 0726 2.39 SU 1337 0.70 2016 2.69					<b>31</b>	0250 0.83 0839 2.42 FR 1446 0.22 ○ 2130 3.12			<b>31</b>	0350 0.49 0955 2.64 MO 1558 0.37 2223 2.96		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – CAIRNS

LAT 16° 56' S LONG 145° 47' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0432 0.55	<b>16</b>	0409 0.99	<b>1</b>	0452 0.58	<b>16</b>	0403 0.87	<b>1</b>	0123 1.60	<b>16</b>	0539 0.95
	1044 2.55		1016 2.16		1128 2.58		1029 2.31		0701 1.24		1243 2.56
TU	1645 0.64	WE	1622 1.21	TH	1727 1.11	FR	1637 1.39	SU	1355 2.45	MO	1824 1.54
	2304 2.70		2219 2.19		2327 2.15		2209 1.98		2206 1.29		2324 1.69
<b>2</b>	0520 0.69	<b>17</b>	0438 1.05	<b>2</b>	0544 0.82	<b>17</b>	0436 0.96	<b>2</b>	0246 1.62	<b>17</b>	0546 1.08
	1143 2.40		1050 2.08		1240 2.41		1110 2.22		0813 1.20		1318 2.33
WE	1738 0.97	TH	1656 1.38	FR	1852 1.39	SA	1722 1.53	MO	1535 2.47	TU	2134 1.41
	2354 2.37		2244 2.02		2209 1.81		2239 1.81		2307 1.12		2304 1.12
<b>3</b>	0614 0.87	<b>18</b>	0510 1.13	<b>3</b>	0041 1.83	<b>18</b>	0514 1.07	<b>3</b>	0435 1.78	<b>18</b>	0139 1.60
	1258 2.25		1134 1.99		0701 1.05		1207 2.13		0946 1.19		0704 1.22
TH	1850 1.31	FR	1736 1.55	SA	1436 2.36	SU		TU	1638 2.53	WE	1502 2.39
			2310 1.85		2204 1.34			☉	2334 0.99		2216 1.22
<b>4</b>	0106 2.05	<b>19</b>	0549 1.22	<b>4</b>	0312 1.72	<b>19</b>	0605 1.20	<b>4</b>	0526 1.97	<b>19</b>	0341 1.76
	0743 1.02		1552 1.85		0905 1.10		1505 2.11		1051 1.13		0902 1.24
FR	1453 2.23	SA		SU	1618 2.48	MO	2230 1.45	WE	1725 2.57	TH	1604 2.51
	2126 1.42				2327 1.15				2355 0.88	☉	2252 1.01
<b>5</b>	0307 1.88	<b>20</b>	0643 1.30	<b>5</b>	0448 1.86	<b>20</b>	0304 1.55	<b>5</b>	0605 2.13	<b>20</b>	0443 2.00
	0936 0.99		1630 2.02		1025 1.01		0739 1.28		1139 1.06		1023 1.14
SA	1642 2.41	SU	2311 1.53	MO	1717 2.61	TU	1606 2.28	TH	1804 2.59	FR	1656 2.62
☉	2317 1.26			☉	2358 0.99		2256 1.27				2328 0.79
<b>6</b>	0449 1.94	<b>21</b>	0400 1.61	<b>6</b>	0539 2.03	<b>21</b>	0418 1.74	<b>6</b>	0021 0.80	<b>21</b>	0536 2.26
	1048 0.87		0938 1.27		1121 0.90		0952 1.17		0638 2.26		1123 1.01
SU	1743 2.61	MO	1658 2.20	TU	1802 2.70	WE	1648 2.47	FR	1219 1.02	SA	1743 2.70
		☉	2329 1.37			☉	2322 1.07		1836 2.58		
<b>7</b>	0009 1.09	<b>22</b>	0443 1.77	<b>7</b>	0021 0.87	<b>22</b>	0503 1.97	<b>7</b>	0047 0.74	<b>22</b>	0007 0.57
	0548 2.06		1035 1.09		0621 2.17		1051 0.99		0709 2.36		0628 2.52
MO	1142 0.74	TU	1729 2.41	WE	1205 0.81	TH	1729 2.65	SA	1254 1.01	SU	1215 0.90
	1829 2.75		2348 1.19		1840 2.74		2353 0.85		1904 2.54		1829 2.74
<b>8</b>	0042 0.96	<b>23</b>	0522 1.96	<b>8</b>	0048 0.79	<b>23</b>	0549 2.22	<b>8</b>	0113 0.70	<b>23</b>	0045 0.39
	0634 2.17		1120 0.88		0656 2.28		1142 0.81		0736 2.44		0716 2.76
TU	1226 0.64	WE	1804 2.62	TH	1243 0.77	FR	1812 2.80	SU	1325 1.02	MO	1303 0.82
	1909 2.83				1913 2.74				1928 2.49		1913 2.72
<b>9</b>	0112 0.87	<b>24</b>	0017 0.98	<b>9</b>	0116 0.75	<b>24</b>	0028 0.62	<b>9</b>	0136 0.68	<b>24</b>	0125 0.26
	0713 2.25		0605 2.18		0728 2.35		0636 2.47		0802 2.50		0803 2.94
WE	1304 0.58	TH	1204 0.66	FR	1317 0.76	SA	1229 0.65	MO	1354 1.06	TU	1349 0.79
	1944 2.86		1843 2.82		1940 2.69		1854 2.91		1948 2.42		1953 2.66
<b>10</b>	0142 0.82	<b>25</b>	0051 0.76	<b>10</b>	0142 0.73	<b>25</b>	0105 0.42	<b>10</b>	0157 0.66	<b>25</b>	0204 0.19
	0746 2.30		0647 2.40		0755 2.40		0721 2.70		0825 2.54		0846 3.04
TH	1339 0.57	FR	1247 0.47	SA	1348 0.80	SU	1315 0.54	TU	1420 1.10	WE	1435 0.83
	2015 2.83		1923 2.99		2004 2.63		1935 2.94		2007 2.36		2032 2.53
<b>11</b>	0210 0.81	<b>26</b>	0128 0.56	<b>11</b>	0206 0.73	<b>26</b>	0143 0.27	<b>11</b>	0217 0.64	<b>26</b>	0245 0.21
	0815 2.32		0732 2.60		0820 2.42		0806 2.87		0848 2.57		0930 3.06
FR	1410 0.61	SA	1331 0.34	SU	1416 0.86	MO	1359 0.52	WE	1445 1.15	TH	1521 0.92
	2040 2.77		2002 3.09		2024 2.55		2013 2.89		2027 2.29	☉	2113 2.37
<b>12</b>	0236 0.83	<b>27</b>	0206 0.40	<b>12</b>	0228 0.74	<b>27</b>	0222 0.19	<b>12</b>	0241 0.63	<b>27</b>	0326 0.32
	0840 2.32		0815 2.75		0843 2.43		0850 2.96		0914 2.59		1014 3.00
SA	1439 0.69	SU	1414 0.29	MO	1441 0.95	TU	1443 0.58	TH	1514 1.20	FR	1611 1.07
	2102 2.68		2040 3.09		2041 2.46	☉	2051 2.76	☉	2051 2.21		2157 2.17
<b>13</b>	0301 0.86	<b>28</b>	0245 0.31	<b>13</b>	0248 0.76	<b>28</b>	0302 0.21	<b>13</b>	0308 0.64	<b>28</b>	0410 0.50
	0903 2.30		0858 2.84		0904 2.43		0935 2.97		0943 2.58		1102 2.87
SU	1505 0.79	MO	1458 0.35	TU	1505 1.04	WE	1530 0.74	FR	1547 1.27	SA	1706 1.23
☉	2121 2.57	☉	2117 2.99	☉	2058 2.37		2130 2.55		2118 2.11		2247 1.94
<b>14</b>	0323 0.90	<b>29</b>	0325 0.30	<b>14</b>	0309 0.77	<b>29</b>	0344 0.33	<b>14</b>	0339 0.70	<b>29</b>	0457 0.74
	0924 2.27		0943 2.83		0927 2.42		1022 2.89		1018 2.54		1155 2.70
MO	1529 0.92	TU	1543 0.52	WE	1531 1.14	TH	1620 0.96	SA	1627 1.36	SU	1821 1.36
	2138 2.46		2154 2.78		2119 2.26		2214 2.28		2149 1.99		2346 1.74
<b>15</b>	0345 0.94	<b>30</b>	0406 0.40	<b>15</b>	0334 0.80	<b>30</b>	0428 0.53	<b>15</b>	0414 0.79	<b>30</b>	0550 1.01
	0947 2.23		1032 2.74		0955 2.38		1115 2.74		1058 2.47		1302 2.53
TU	1554 1.06	WE	1631 0.79	TH	1602 1.25	FR	1717 1.20	SU	1714 1.46	MO	2053 1.37
	2157 2.33		2237 2.49		2143 2.13		2306 1.98		2228 1.84		
				<b>31</b>	0518 0.78		1221 2.57				
				SA	1853 1.39						
										<b>31</b>	0137 1.63
											0652 1.45
											TH 1419 2.27
											2224 1.35

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – PORT DOUGLAS

LAT 16° 29' S LONG 145° 28' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0033 0.53	<b>16</b>	0640 2.41
	0708 2.67		1237 1.33
TH	1311 1.13	FR	1807 2.17
	1857 2.27		
<b>2</b>	0111 0.46	<b>17</b>	0027 0.63
	0747 2.79		0708 2.64
FR	1353 1.09	SA	1312 1.17
	1936 2.24		1846 2.28
<b>3</b>	0147 0.43	<b>18</b>	0104 0.43
	0824 2.85		0742 2.86
SA	1430 1.08	SU	1350 1.02
	2010 2.19		1928 2.39
<b>4</b>	0221 0.44	<b>19</b>	0142 0.26
	0858 2.85		0820 3.06
SU	1505 1.10	MO	1431 0.89
	2042 2.14		2010 2.47
<b>5</b>	0253 0.49	<b>20</b>	0224 0.15
	0930 2.81		0900 3.18
MO	1540 1.14	TU	1512 0.80
☉	2112 2.07	☉	2053 2.52
<b>6</b>	0324 0.59	<b>21</b>	0306 0.13
	1002 2.72		0942 3.22
TU	1613 1.21	WE	1555 0.77
	2140 1.98		2138 2.50
<b>7</b>	0353 0.73	<b>22</b>	0350 0.21
	1032 2.60		1025 3.16
WE	1647 1.29	TH	1640 0.81
	2204 1.88		2228 2.41
<b>8</b>	0418 0.89	<b>23</b>	0435 0.41
	1101 2.47		1109 3.00
TH	1722 1.38	FR	1729 0.89
	2227 1.78		2322 2.27
<b>9</b>	0439 1.06	<b>24</b>	0524 0.70
	1130 2.33		1159 2.76
FR	1801 1.45	SA	1827 1.01
	2257 1.67		
<b>10</b>	0503 1.25	<b>25</b>	0028 2.11
	1204 2.19		0621 1.05
SA	1902 1.49	SU	1259 2.48
	2353 1.56		1946 1.09
<b>11</b>	0531 1.44	<b>26</b>	0202 2.02
	1248 2.06		0747 1.37
SU	2216 1.42	MO	1421 2.24
			2126 1.07
<b>12</b>	0519 1.64	<b>27</b>	0408 2.12
	0623 1.63		0959 1.48
MO	1433 1.96	TU	1601 2.13
	2249 1.30	☉	2244 0.95
<b>13</b>	0554 1.82	<b>28</b>	0532 2.34
	1031 1.66		1139 1.40
TU	1613 1.97	WE	1717 2.13
☉	2308 1.16		2341 0.82
<b>14</b>	0608 2.00	<b>29</b>	0624 2.55
	1128 1.57		1237 1.28
WE	1654 2.01	TH	1812 2.16
	2328 1.01		
<b>15</b>	0620 2.19	<b>30</b>	0026 0.70
	1205 1.46		0704 2.71
TH	1731 2.08	FR	1317 1.18
	2355 0.83		1855 2.20
		<b>31</b>	0104 0.61
			0739 2.81
			SA 1350 1.12
			1932 2.23

## FEBRUARY

Time	m	Time	m
<b>1</b>	0139 0.57	<b>16</b>	0047 0.50
	0812 2.85		0724 2.98
SU	1420 1.09	MO	1335 0.92
	2004 2.24		1918 2.51
<b>2</b>	0210 0.56	<b>17</b>	0129 0.29
	0842 2.85		0802 3.18
MO	1449 1.09	TU	1413 0.74
	2033 2.24		2001 2.66
<b>3</b>	0240 0.59	<b>18</b>	0210 0.16
	0909 2.81		0841 3.31
TU	1517 1.11	WE	1453 0.62
	2058 2.21		2044 2.76
<b>4</b>	0307 0.66	<b>19</b>	0253 0.13
	0935 2.75		0920 3.33
WE	1543 1.15	TH	1533 0.56
☉	2121 2.17	☉	2128 2.78
<b>5</b>	0331 0.76	<b>20</b>	0335 0.23
	0958 2.65		1000 3.22
TH	1607 1.20	FR	1613 0.60
	2141 2.11		2213 2.71
<b>6</b>	0352 0.89	<b>21</b>	0419 0.45
	1020 2.54		1041 3.01
FR	1631 1.25	SA	1658 0.71
	2204 2.04		2303 2.56
<b>7</b>	0415 1.04	<b>22</b>	0506 0.78
	1042 2.41		1125 2.70
SA	1658 1.31	SU	1746 0.88
	2233 1.95		
<b>8</b>	0441 1.22	<b>23</b>	0002 2.36
	1108 2.27		0602 1.16
SU	1732 1.37	MO	1217 2.36
	2310 1.85		1849 1.08
<b>9</b>	0510 1.41	<b>24</b>	0126 2.19
	1136 2.12		0729 1.49
MO	1813 1.42	TU	1337 2.04
			2034 1.19
<b>10</b>	0008 1.75	<b>25</b>	0353 2.22
	0546 1.62		1025 1.55
TU	1212 1.96	WE	1552 1.93
	1925 1.46		2218 1.13
<b>11</b>	0509 1.83	<b>26</b>	0521 2.41
	1017 1.77		1203 1.38
WE	1339 1.84	TH	1717 1.99
	2204 1.35	☉	2324 1.00
<b>12</b>	0537 2.03	<b>27</b>	0611 2.58
	1124 1.65		1241 1.24
TH	1623 1.87	FR	1809 2.09
☉	2249 1.18		
<b>13</b>	0553 2.24	<b>28</b>	0012 0.88
	1155 1.50		0647 2.70
FR	1710 1.99	SA	1308 1.15
	2327 0.97		1848 2.18
<b>14</b>	0617 2.48	<b>29</b>	0617 2.48
	1225 1.32		1225 1.32
SA	1753 2.15		
		<b>30</b>	0007 0.73
			0648 2.74
		SU	1258 1.12
			1836 2.32

## MARCH

Time	m	Time	m
<b>1</b>	0050 0.79	<b>16</b>	0622 2.80
	0720 2.77		1240 1.00
SU	1334 1.08	MO	1824 2.37
	1921 2.26		
<b>2</b>	0123 0.74	<b>17</b>	0029 0.60
	0749 2.80		0700 3.02
MO	1359 1.05	TU	1315 0.77
	1951 2.31		1908 2.60
<b>3</b>	0153 0.72	<b>18</b>	0112 0.41
	0816 2.79		0739 3.19
TU	1424 1.03	WE	1351 0.58
	2017 2.34		1950 2.79
<b>4</b>	0220 0.74	<b>19</b>	0154 0.29
	0841 2.76		0817 3.27
WE	1447 1.03	TH	1429 0.44
	2041 2.35		2032 2.93
<b>5</b>	0244 0.79	<b>20</b>	0236 0.27
	0902 2.70		0855 3.24
TH	1508 1.03	FR	1507 0.38
	2101 2.34	☉	2114 2.97
<b>6</b>	0306 0.86	<b>21</b>	0319 0.39
	0921 2.63		0933 3.09
FR	1528 1.04	SA	1547 0.42
☉	2121 2.32		2159 2.91
<b>7</b>	0328 0.96	<b>22</b>	0404 0.61
	0940 2.53		1013 2.84
SA	1551 1.06	SU	1628 0.56
	2146 2.28		2247 2.76
<b>8</b>	0354 1.08	<b>23</b>	0451 0.93
	1002 2.42		1055 2.51
SU	1617 1.10	MO	1713 0.77
	2216 2.22		2341 2.55
<b>9</b>	0423 1.24	<b>24</b>	0548 1.27
	1025 2.28		1143 2.16
MO	1647 1.16	TU	1806 1.02
	2251 2.13		
<b>10</b>	0457 1.42	<b>25</b>	0058 2.35
	1051 2.12		0729 1.54
TU	1721 1.24	WE	1257 1.85
	2337 2.02		1931 1.23
<b>11</b>	0539 1.62	<b>26</b>	0319 2.31
	1117 1.95		1059 1.48
WE	1805 1.33	TH	1544 1.76
			2136 1.27
<b>12</b>	0336 1.91	<b>27</b>	0448 2.42
	1014 1.76		1201 1.31
TH	1202 1.78	FR	1711 1.87
	1925 1.40	☉	2254 1.18
<b>13</b>	0437 2.10	<b>28</b>	0540 2.54
	1114 1.60		1226 1.18
FR	1557 1.76	SA	1758 2.01
	2200 1.29		2346 1.08
<b>14</b>	0513 2.32	<b>29</b>	0618 2.61
	1141 1.42		1246 1.09
SA	1655 1.92	SU	1833 2.14
☉	2258 1.08		
<b>15</b>	0547 2.56	<b>30</b>	0026 0.99
	1208 1.22		0650 2.66
SU	1741 2.13	MO	1308 1.03
	2345 0.84		1904 2.24
		<b>31</b>	0059 0.94
			0718 2.67
			TU 1331 0.98
			1932 2.32

## APRIL

Time	m	Time	m
<b>1</b>	0129 0.91	<b>16</b>	0054 0.59
	0744 2.66		0713 3.04
WE	1354 0.94	TH	1329 0.44
	1958 2.38		1939 2.84
<b>2</b>	0156 0.92	<b>17</b>	0139 0.51
	0806 2.63		0752 3.05
TH	1415 0.92	FR	1406 0.32
	2020 2.42		2021 2.98
<b>3</b>	0220 0.95	<b>18</b>	0222 0.52
	0826 2.58		0830 2.97
FR	1434 0.89	SA	1444 0.28
	2042 2.45		2103 3.03
<b>4</b>	0243 0.99	<b>19</b>	0305 0.62
	0843 2.52		0908 2.80
SA	1454 0.86	SU	1523 0.33
☉	2105 2.47	☉	2146 2.99
<b>5</b>	0307 1.06	<b>20</b>	0351 0.81
	0904 2.45		0948 2.56
SU	1517 0.85	MO	1604 0.47
	2131 2.47		2232 2.86
<b>6</b>	0336 1.15	<b>21</b>	0441 1.06
	0927 2.34		1030 2.27
MO	1545 0.87	TU	1647 0.68
	2202 2.43		2325 2.66
<b>7</b>	0410 1.27	<b>22</b>	0541 1.32
	0953 2.21		1118 1.97
TU	1616 0.93	WE	1735 0.94
	2239 2.36		
<b>8</b>	0449 1.42	<b>23</b>	0033 2.46
	1022 2.05		0728 1.49
WE	1650 1.03	TH	1227 1.71
	2324 2.25		1840 1.19
<b>9</b>	0539 1.58	<b>24</b>	0224 2.34
	1057 1.88		1037 1.41
TH	1733 1.16	FR	1509 1.63
			2033 1.33
<b>10</b>	0038 2.16	<b>25</b>	0357 2.36
	1837 1.29		1133 1.26
FR		SA	1649 1.75
			2207 1.32
<b>11</b>	0326 2.21	<b>26</b>	0456 2.41
	1037 1.48		1156 1.15
SA	1526 1.70	SU	1740 1.90
	2102 1.30	☉	2310 1.26
<b>12</b>	0426 2.39	<b>27</b>	0539 2.45



# AUSTRALIA, EAST COAST – PORT DOUGLAS

LAT 16° 29' S LONG 145° 28' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0131 1.10 0729 2.44 FR 1342 0.81 2000 2.43	<b>16</b>	0128 0.76 0731 2.71 SA 1347 0.29 2013 2.93	<b>1</b>	0206 1.15 0743 2.22 MO 1359 0.55 2035 2.62	<b>16</b>	0256 0.94 0840 2.21 TU 1453 0.35 2130 2.88	<b>1</b>	0229 1.02 0801 2.17 WE 1417 0.34 2058 2.80	<b>16</b>	0327 0.96 0909 2.05 TH 1517 0.46 ● 2151 2.73	<b>1</b>	0334 0.68 0919 2.34 SA 1528 0.16 2202 3.00	<b>16</b>	0359 0.98 0945 1.98 SU 1552 0.77 2213 2.40
<b>2</b>	0156 1.09 0749 2.41 SA 1401 0.75 2024 2.50	<b>17</b>	0213 0.77 0810 2.62 SU 1425 0.26 2055 2.99	<b>2</b>	0240 1.11 0814 2.20 TU 1431 0.49 2109 2.69	<b>17</b>	0340 1.00 0919 2.10 WE 1531 0.44 ● 2210 2.80	<b>2</b>	0309 0.96 0842 2.18 TH 1458 0.30 ○ 2138 2.87	<b>17</b>	0403 1.01 0942 1.97 FR 1551 0.58 2223 2.61	<b>2</b>	0416 0.66 1006 2.31 SU 1613 0.29 2244 2.89	<b>17</b>	0425 1.04 1009 1.90 MO 1616 0.93 2235 2.25
<b>3</b>	0222 1.10 0810 2.37 SU 1424 0.69 2049 2.56	<b>18</b>	0258 0.84 0850 2.47 MO 1505 0.31 ● 2137 2.96	<b>3</b>	0317 1.11 0848 2.16 WE 1507 0.48 ○ 2147 2.72	<b>18</b>	0423 1.08 0959 1.97 TH 1611 0.59 2250 2.67	<b>3</b>	0352 0.93 0926 2.16 FR 1540 0.32 2220 2.87	<b>18</b>	0438 1.09 1014 1.88 SA 1622 0.75 2255 2.46	<b>3</b>	0502 0.71 1057 2.22 MO 1700 0.51 2330 2.69	<b>18</b>	0451 1.11 1037 1.82 TU 1641 1.10 2258 2.10
<b>4</b>	0251 1.12 0834 2.31 MO 1451 0.66 ○ 2119 2.60	<b>19</b>	0344 0.96 0930 2.28 TU 1545 0.44 2221 2.86	<b>4</b>	0359 1.13 0928 2.09 TH 1546 0.52 2230 2.70	<b>19</b>	0510 1.18 1040 1.83 FR 1649 0.78 2332 2.50	<b>4</b>	0437 0.93 1014 2.11 SA 1625 0.42 2306 2.80	<b>19</b>	0513 1.17 1046 1.77 SU 1651 0.93 2324 2.30	<b>4</b>	0554 0.79 1158 2.10 TU 1753 0.81	<b>19</b>	0522 1.17 1115 1.72 WE 1711 1.29 2324 1.94
<b>5</b>	0324 1.17 0902 2.23 TU 1521 0.67 2153 2.59	<b>20</b>	0434 1.11 1013 2.07 WE 1628 0.63 2310 2.69	<b>5</b>	0448 1.18 1013 1.98 FR 1630 0.63 2319 2.63	<b>20</b>	0603 1.28 1124 1.68 SA 1727 0.99	<b>5</b>	0529 0.97 1110 2.01 SU 1713 0.60 2357 2.66	<b>20</b>	0551 1.25 1120 1.66 MO 1717 1.12 2355 2.13	<b>5</b>	0023 2.43 0659 0.89 WE 1315 1.99 1902 1.13	<b>20</b>	0600 1.24 2356 1.78 TH
<b>6</b>	0402 1.25 0934 2.12 WE 1555 0.72 2232 2.54	<b>21</b>	0532 1.27 1101 1.85 TH 1712 0.86	<b>6</b>	0548 1.24 1111 1.86 SA 1720 0.78	<b>21</b>	0018 2.33 0717 1.34 SU 1219 1.56 1807 1.20	<b>6</b>	0630 1.01 1217 1.92 MO 1809 0.83	<b>21</b>	0638 1.32 1205 1.56 TU 1748 1.32	<b>6</b>	0133 2.17 0831 0.92 TH 1507 2.00 2102 1.32	<b>21</b>	0659 1.28 1641 1.70 FR 2230 1.60
<b>7</b>	0447 1.35 1011 1.98 TH 1635 0.83 2322 2.45	<b>22</b>	0005 2.51 0653 1.39 FR 1159 1.66 1802 1.09	<b>7</b>	0018 2.54 0713 1.25 SU 1231 1.76 1820 0.96	<b>22</b>	0115 2.17 0915 1.32 MO 1439 1.51 1905 1.38	<b>7</b>	0057 2.50 0749 1.01 TU 1341 1.87 1920 1.08	<b>22</b>	0031 1.98 0855 1.32 WE 1608 1.55 1837 1.50	<b>7</b>	0312 2.00 0958 0.85 FR 1646 2.18 ● 2258 1.28	<b>22</b>	0057 1.63 0948 1.22 SA 1722 1.88 2332 1.48
<b>8</b>	0548 1.46 1059 1.82 FR 1721 0.98	<b>23</b>	0118 2.34 0911 1.37 SA 1353 1.55 1914 1.29	<b>8</b>	0132 2.46 0848 1.16 MO 1411 1.76 1943 1.12	<b>23</b>	0241 2.07 1022 1.24 TU 1642 1.63 2109 1.50	<b>8</b>	0210 2.34 0912 0.95 WE 1520 1.93 2102 1.24	<b>23</b>	0127 1.85 1010 1.23 TH 1717 1.71 2218 1.57	<b>8</b>	0439 1.96 1104 0.73 SA 1751 2.39	<b>23</b>	0421 1.65 1034 1.08 SU 1746 2.05 ● 2359 1.35
<b>9</b>	0031 2.36 0824 1.48 SA 1225 1.68 1826 1.13	<b>24</b>	0249 2.26 1039 1.28 SU 1604 1.62 2058 1.40	<b>9</b>	0251 2.43 0954 1.02 TU 1543 1.89 2121 1.18	<b>24</b>	0353 2.03 1100 1.14 WE 1736 1.78 ● 2243 1.49	<b>9</b>	0331 2.24 1020 0.82 TH 1646 2.12 ● 2238 1.25	<b>24</b>	0354 1.80 1046 1.12 FR 1753 1.88 ● 2327 1.49	<b>9</b>	0011 1.15 0543 1.99 SU 1157 0.61 1838 2.56	<b>24</b>	0502 1.74 1110 0.91 MO 1807 2.25
<b>10</b>	0216 2.35 0947 1.33 SU 1447 1.70 2013 1.22	<b>25</b>	0359 2.24 1115 1.17 MO 1714 1.76 2222 1.40	<b>10</b>	0359 2.43 1045 0.85 WE 1654 2.10 ● 2240 1.15	<b>25</b>	0442 2.02 1127 1.04 TH 1808 1.94 2339 1.43	<b>10</b>	0442 2.19 1115 0.69 FR 1751 2.33 2353 1.18	<b>25</b>	0444 1.82 1113 1.00 SA 1814 2.04	<b>10</b>	0057 1.03 0633 2.04 MO 1241 0.51 1919 2.68	<b>25</b>	0020 1.20 0539 1.87 TU 1148 0.72 1833 2.46
<b>11</b>	0337 2.44 1035 1.14 MO 1609 1.88 ● 2150 1.16	<b>26</b>	0450 2.24 1140 1.08 TU 1754 1.91 ● 2320 1.36	<b>11</b>	0458 2.44 1131 0.68 TH 1752 2.33 2344 1.08	<b>26</b>	0519 2.02 1151 0.94 FR 1833 2.08	<b>11</b>	0542 2.17 1204 0.56 SA 1842 2.54	<b>26</b>	0006 1.39 0521 1.86 SU 1141 0.86 1834 2.21	<b>11</b>	0133 0.94 0715 2.08 TU 1321 0.45 1955 2.74	<b>26</b>	0046 1.03 0617 2.03 WE 1226 0.51 1905 2.68
<b>12</b>	0434 2.56 1115 0.94 TU 1709 2.11 2257 1.04	<b>27</b>	0529 2.25 1204 1.00 WE 1825 2.04	<b>12</b>	0550 2.44 1214 0.53 FR 1842 2.55	<b>27</b>	0018 1.36 0550 2.03 SA 1213 0.83 1855 2.23	<b>12</b>	0049 1.08 0633 2.16 SU 1248 0.46 1926 2.69	<b>27</b>	0036 1.28 0555 1.93 MO 1212 0.69 1858 2.40	<b>12</b>	0206 0.89 0751 2.10 WE 1356 0.43 2027 2.75	<b>27</b>	0118 0.85 0658 2.20 TH 1306 0.31 1941 2.87
<b>13</b>	0523 2.66 1153 0.74 WE 1800 2.36 2353 0.92	<b>28</b>	0003 1.31 0600 2.25 TH 1226 0.91 1851 2.17	<b>13</b>	0039 1.01 0637 2.42 SA 1254 0.41 1928 2.73	<b>28</b>	0050 1.29 0619 2.05 SU 1238 0.70 1920 2.38	<b>13</b>	0135 1.00 0718 2.15 MO 1328 0.39 2007 2.79	<b>28</b>	0105 1.15 0631 2.03 TU 1246 0.52 1929 2.60	<b>13</b>	0236 0.88 0823 2.11 TH 1428 0.45 2057 2.71	<b>28</b>	0154 0.67 0739 2.37 FR 1348 0.16 2019 3.02
<b>14</b>	0608 2.73 1231 0.55 TH 1847 2.60	<b>29</b>	0038 1.26 0627 2.24 FR 1247 0.83 1916 2.29	<b>14</b>	0128 0.95 0720 2.38 SU 1335 0.33 2010 2.85	<b>29</b>	0121 1.20 0650 2.09 MO 1307 0.57 1948 2.54	<b>14</b>	0215 0.96 0758 2.13 TU 1406 0.36 2043 2.82	<b>29</b>	0138 1.01 0711 2.13 WE 1325 0.35 2004 2.78	<b>14</b>	0305 0.89 0853 2.09 FR 1458 0.52 2124 2.63	<b>29</b>	0231 0.52 0822 2.49 SA 1430 0.09 2058 3.07
<b>15</b>	0042 0.82 0651 2.75 FR 1309 0.39 1930 2.80	<b>30</b>	0108 1.22 0652 2.23 SA 1308 0.74 1940 2.40	<b>15</b>	0213 0.93 0801 2.31 MO 1413 0.31 2051 2.90	<b>30</b>	0153 1.11 0724 2.13 TU 1341 0.44 2021 2.69	<b>15</b>	0252 0.94 0834 2.10 WE 1443 0.39 2118 2.80	<b>30</b>	0214 0.87 0751 2.24 TH 1405 0.21 2041 2.93	<b>15</b>	0333 0.93 0919 2.05 SA 1526 0.63 ● 2150 2.53	<b>30</b>	0310 0.43 0905 2.56 SU 1512 0.13 ○ 2136 3.02
<b>31</b>	0137 1.19 0716 2.23 SU 1332 0.64 2006 2.52							<b>31</b>	0253 0.75 0834 2.31 FR 1446 0.14 ○ 2121 3.01		<b>31</b>	0350 0.41 0951 2.54 MO 1557 0.29 2217 2.85			

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

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

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, EAST COAST – PORT DOUGLAS

LAT 16° 29' S LONG 145° 28' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER						
Time	m	Time	m	Time	m	Time	m					
<b>1</b>	0433 0.48	<b>16</b>	0404 0.93	<b>1</b>	0451 0.50	<b>16</b>	0355 0.81	<b>1</b>	0111 1.51	<b>16</b>	0539 0.94	
	1041 2.44		1009 2.01		1120 2.47		1023 2.15		0654 1.16		1250 2.43	
TU	1644 0.56	WE	1614 1.14	TH	1727 1.02	FR	1633 1.33	SU	1351 2.32	MO	2038 1.45	
	2301 2.59		2210 2.04		2322 2.05		2158 1.82		2200 1.23		2327 1.53	
<b>2</b>	0520 0.62	<b>17</b>	0432 0.99	<b>2</b>	0543 0.74	<b>17</b>	0428 0.91	<b>2</b>	0236 1.51	<b>17</b>	0546 1.06	
	1138 2.29		1043 1.92		1233 2.29		1108 2.05		0804 1.13		1339 2.20	
WE	1738 0.89	TH	1647 1.31	FR	1855 1.29	SA	1722 1.48	MO	1529 2.33	TU	2149 1.29	
	2351 2.26		2233 1.88		2207 1.27		2225 1.66		2309 1.07		2313 1.08	
<b>3</b>	0618 0.79	<b>18</b>	0504 1.08	<b>3</b>	0033 1.74	<b>18</b>	0508 1.04	<b>3</b>	0432 1.65	<b>18</b>	0217 1.49	
	1253 2.13		1129 1.82		0702 0.96		1214 1.97		0942 1.14		0722 1.19	
TH	1854 1.22	FR	1729 1.49	SA	1437 2.23	SU		TU	1634 2.37	WE	1515 2.28	
			2256 1.71		2207 1.27			☉	2342 0.95		2230 1.11	
<b>4</b>	0100 1.95	<b>19</b>	0546 1.17	<b>4</b>	0306 1.61	<b>19</b>	0605 1.17	<b>4</b>	0526 1.81	<b>19</b>	0357 1.68	
	0747 0.94		1546 1.76		0900 1.03		1530 2.02		1050 1.09		0919 1.16	
FR	1458 2.11	SA		SU	1614 2.33	MO	2249 1.32	WE	1720 2.40	TH	1611 2.40	
	2129 1.34				2329 1.08				☉	☉	2302 0.91	
<b>5</b>	0307 1.77	<b>20</b>	0654 1.25	<b>5</b>	0444 1.72	<b>20</b>	0338 1.47	<b>5</b>	0004 0.86	<b>20</b>	0452 1.92	
	0935 0.93		1635 1.93		1024 0.96		0834 1.22		0602 1.96		1030 1.05	
SA	1639 2.27	SU	2327 1.40	MO	1713 2.44	TU	1616 2.19	TH	1139 1.04	FR	1658 2.52	
☉	2327 1.19			☉			2311 1.15		1757 2.41		2334 0.70	
<b>6</b>	0444 1.81	<b>21</b>	0408 1.53	<b>6</b>	0005 0.94	<b>21</b>	0430 1.66	<b>6</b>	0026 0.79	<b>21</b>	0539 2.19	
	1050 0.82		0947 1.17		0537 1.87		1003 1.08		0633 2.09		1125 0.92	
SU	1739 2.44	MO	1706 2.11	TU	1122 0.87	WE	1654 2.37	FR	1219 1.01	SA	1742 2.61	
		☉	2342 1.25		1756 2.52	☉	2332 0.96		1828 2.40			
<b>7</b>	0017 1.03	<b>22</b>	0449 1.67	<b>7</b>	0029 0.85	<b>22</b>	0510 1.88	<b>7</b>	0049 0.73	<b>22</b>	0009 0.49	
	0543 1.91		1039 0.99		0616 2.00		1056 0.89		0702 2.19		0623 2.45	
MO	1144 0.70	TU	1733 2.31	WE	1206 0.79	TH	1730 2.55	SA	1252 0.99	SU	1216 0.80	
	1823 2.57		2359 1.08		1831 2.55		2358 0.75		1855 2.36		1825 2.66	
<b>8</b>	0049 0.92	<b>23</b>	0526 1.86	<b>8</b>	0053 0.78	<b>23</b>	0551 2.14	<b>8</b>	0111 0.69	<b>23</b>	0046 0.31	
	0628 2.01		1123 0.78		0649 2.11		1143 0.71		0728 2.27		0707 2.69	
TU	1227 0.61	WE	1803 2.52	TH	1243 0.75	FR	1809 2.71	SU	1323 1.00	MO	1303 0.73	
	1859 2.64				1902 2.55				1918 2.32		1906 2.66	
<b>9</b>	0117 0.85	<b>24</b>	0024 0.88	<b>9</b>	0118 0.74	<b>24</b>	0031 0.53	<b>9</b>	0132 0.66	<b>24</b>	0124 0.18	
	0704 2.09		0604 2.08		0719 2.18		0632 2.39		0753 2.33		0750 2.86	
WE	1304 0.56	TH	1205 0.56	FR	1315 0.75	SA	1229 0.54	MO	1349 1.02	TU	1349 0.70	
	1932 2.67		1838 2.73		1930 2.51		1847 2.83		1939 2.26		1947 2.59	
<b>10</b>	0144 0.81	<b>25</b>	0054 0.67	<b>10</b>	0141 0.72	<b>25</b>	0106 0.33	<b>10</b>	0151 0.63	<b>25</b>	0203 0.11	
	0737 2.14		0645 2.30		0747 2.23		0714 2.62		0816 2.38		0833 2.97	
TH	1337 0.55	FR	1247 0.37	SA	1344 0.78	SU	1313 0.44	TU	1415 1.05	WE	1436 0.74	
	2001 2.65		1914 2.90		1954 2.46		1927 2.87		1957 2.21		2027 2.47	
<b>11</b>	0210 0.80	<b>26</b>	0130 0.47	<b>11</b>	0203 0.71	<b>26</b>	0143 0.18	<b>11</b>	0210 0.60	<b>26</b>	0242 0.13	
	0806 2.17		0726 2.51		0811 2.26		0757 2.80		0839 2.42		0917 2.98	
FR	1407 0.58	SA	1330 0.23	SU	1410 0.83	MO	1358 0.41	WE	1441 1.09	TH	1523 0.83	
	2028 2.60		1952 3.01		2014 2.39		2006 2.83		2017 2.15	☉	2108 2.30	
<b>12</b>	0235 0.80	<b>27</b>	0206 0.31	<b>12</b>	0224 0.71	<b>27</b>	0221 0.11	<b>12</b>	0234 0.58	<b>27</b>	0324 0.24	
	0832 2.17		0808 2.67		0834 2.27		0840 2.89		0905 2.44		1002 2.91	
SA	1434 0.65	SU	1413 0.19	MO	1434 0.89	TU	1443 0.48	TH	1511 1.14	FR	1613 0.97	
	2051 2.52		2031 3.01		2032 2.31	☉	2044 2.69	☉	2041 2.07		2152 2.09	
<b>13</b>	0258 0.82	<b>28</b>	0244 0.22	<b>13</b>	0242 0.71	<b>28</b>	0300 0.12	<b>13</b>	0300 0.59	<b>28</b>	0407 0.42	
	0855 2.15		0851 2.75		0855 2.27		0924 2.89		0936 2.43		1050 2.77	
SU	1459 0.74	MO	1456 0.25	TU	1458 0.98	WE	1529 0.64	FR	1546 1.22	SA	1709 1.13	
☉	2112 2.42	☉	2109 2.91	☉	2049 2.21	☉	2125 2.48		2109 1.96		2241 1.87	
<b>14</b>	0319 0.85	<b>29</b>	0324 0.22	<b>14</b>	0302 0.72	<b>29</b>	0341 0.24	<b>14</b>	0332 0.65	<b>29</b>	0454 0.66	
	0917 2.12		0936 2.74		0919 2.26		1012 2.80		1013 2.39		1145 2.58	
MO	1522 0.85	TU	1541 0.43	WE	1524 1.07	TH	1620 0.86	SA	1628 1.31	SU	1820 1.27	
	2129 2.31		2150 2.70		2109 2.11		2209 2.20		2142 1.83		2339 1.65	
<b>15</b>	0340 0.89	<b>30</b>	0405 0.32	<b>15</b>	0326 0.75	<b>30</b>	0425 0.44	<b>15</b>	0408 0.76	<b>30</b>	0546 0.93	
	0940 2.07		1025 2.64		0949 2.22		1105 2.64		1058 2.31		1252 2.41	
TU	1546 0.99	WE	1630 0.70	TH	1556 1.19	FR	1720 1.10	SU	1722 1.41	MO	2034 1.30	
	2148 2.18		2232 2.40		2133 1.98		2300 1.89		2221 1.68			
				<b>31</b>	0516 0.70		1211 2.45					
					SA	1852 1.29						
										<b>31</b>	0125 1.53	
											0643 1.38	
											TH	1409 2.15
												2224 1.30

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon    ☽ First Quarter    ☽ Full Moon    ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

# LEGGATT ISLAND – QUEENSLAND

LAT 14° 32' LONG 144° 51'  
Times and Heights of High and Low Waters

# 2015

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> 0052 0.62		<b>16</b> 0016 0.94		<b>1</b> 0158 0.60		<b>16</b> 0107 0.58		<b>1</b> 0113 0.83		<b>16</b> 0009 0.93		<b>1</b> 0149 0.95		<b>16</b> 0116 0.66	
TH 0723 2.75		FR 0708 2.46		SU 0827 2.93		MO 0741 3.02		0738 2.88		0643 2.86		WE 0801 2.72		TH 0727 3.06	
1908 2.36		FR 1306 1.42		2014 2.33		MO 1400 0.99		SU 1356 1.09		MO 1309 1.07		TH 1416 0.97		TH 1351 0.54	
		1819 2.19				1929 2.54		1937 2.35		1840 2.41		2013 2.45		1951 2.87	
<b>2</b> 0130 0.52		<b>17</b> 0046 0.73		<b>2</b> 0228 0.60		<b>17</b> 0146 0.37		<b>2</b> 0144 0.77		<b>17</b> 0052 0.68		<b>2</b> 0213 0.96		<b>17</b> 0158 0.57	
0801 2.87		0730 2.67		0855 2.92		0815 3.21		0806 2.89		0717 3.07		0821 2.67		0804 3.07	
FR 1411 1.10		SA 1338 1.26		MO 1511 1.09		TU 1435 0.82		MO 1422 1.05		TU 1340 0.85		TH 1434 0.96		FR 1427 0.43	
1945 2.33		1857 2.30		2040 2.31		2010 2.69		2004 2.39		1921 2.64		2034 2.48		2032 3.00	
<b>3</b> 0205 0.47		<b>18</b> 0121 0.52		<b>3</b> 0254 0.64		<b>18</b> 0225 0.23		<b>3</b> 0211 0.75		<b>18</b> 0132 0.47		<b>3</b> 0235 0.99		<b>18</b> 0240 0.58	
0837 2.92		0800 2.88		0922 2.86		0851 3.33		0832 2.86		0752 3.22		0838 2.62		0841 2.99	
SA 1450 1.08		SU 1413 1.10		TU 1538 1.13		WE 1512 0.71		TU 1446 1.04		WE 1415 0.66		FR 1451 0.94		SA 1503 0.39	
2019 2.28		1936 2.41		2101 2.29		2051 2.79		2027 2.41		2001 2.83		2053 2.49		2115 3.04	
<b>4</b> 0238 0.48		<b>19</b> 0157 0.34		<b>4</b> 0316 0.71		<b>19</b> 0305 0.21		<b>4</b> 0236 0.77		<b>19</b> 0212 0.35		<b>4</b> 0256 1.04		<b>19</b> 0324 0.70	
0912 2.91		0834 3.07		0945 2.78		0929 3.34		0854 2.81		0828 3.29		0854 2.55		0919 2.82	
SU 1527 1.10		MO 1451 0.97		WE 1601 1.19		TH 1550 0.68		WE 1507 1.05		TH 1450 0.54		SA 1507 0.94		SU 1540 0.45	
2048 2.22		2017 2.50		2119 2.25		2133 2.80		2048 2.41		2041 2.95		2114 2.49		2200 2.99	
<b>5</b> 0307 0.55		<b>20</b> 0236 0.23		<b>5</b> 0334 0.82		<b>20</b> 0346 0.32		<b>5</b> 0256 0.83		<b>20</b> 0252 0.35		<b>5</b> 0318 1.12		<b>20</b> 0409 0.90	
0943 2.85		0910 3.19		1004 2.69		1008 3.23		0912 2.75		0905 3.25		0911 2.47		0957 2.58	
MO 1602 1.17		TU 1531 0.89		TH 1621 1.25		FR 1631 0.73		TH 1526 1.07		FR 1526 0.50		SU 1526 0.94		MO 1618 0.60	
2113 2.14		2058 2.55		2136 2.20		2218 2.73		2105 2.40		2124 2.98		2139 2.48		2249 2.86	
<b>6</b> 0332 0.66		<b>21</b> 0316 0.21		<b>6</b> 0351 0.95		<b>21</b> 0429 0.56		<b>6</b> 0314 0.91		<b>21</b> 0333 0.47		<b>6</b> 0343 1.23		<b>21</b> 0502 1.15	
1013 2.75		0950 3.23		1022 2.59		1048 3.03		0928 2.67		0942 3.10		0929 2.38		1035 2.30	
TU 1635 1.26		WE 1613 0.88		FR 1641 1.32		SA 1715 0.85		FR 1542 1.10		SA 1604 0.56		MO 1547 0.97		TU 1658 0.82	
2133 2.06		2142 2.54		2155 2.14		2308 2.58		2124 2.38		2208 2.91		2206 2.44		2346 2.68	
<b>7</b> 0352 0.80		<b>22</b> 0357 0.30		<b>7</b> 0408 1.11		<b>22</b> 0515 0.89		<b>7</b> 0333 1.01		<b>22</b> 0417 0.71		<b>7</b> 0411 1.37		<b>22</b> 0609 1.40	
1039 2.63		1032 3.17		1040 2.47		1130 2.74		0945 2.58		1020 2.86		0947 2.26		1119 2.02	
WE 1707 1.36		TH 1658 0.93		SA 1703 1.39		SU 1804 1.02		SA 1559 1.14		SU 1644 0.70		TU 1609 1.03		WE 1744 1.07	
2150 1.98		2228 2.46		2218 2.06				2145 2.34		2258 2.77		2239 2.38			
<b>8</b> 0408 0.96		<b>23</b> 0442 0.51		<b>8</b> 0424 1.29		<b>23</b> 0012 2.39		<b>8</b> 0354 1.15		<b>23</b> 0506 1.03		<b>8</b> 0445 1.53		<b>23</b> 0059 2.51	
1105 2.50		1116 3.02		1058 2.35		0613 1.27		1001 2.47		1059 2.55		1004 2.13		0754 1.55	
TH 1741 1.46		FR 1749 1.02		SU 1731 1.46		MO 1221 2.42		SU 1618 1.19		MO 1727 0.91		WE 1636 1.13		TH 1233 1.77	
2210 1.90		2322 2.32		2242 1.96		1907 1.20		2209 2.28		2358 2.57		2327 2.29		1854 1.31	
<b>9</b> 0423 1.13		<b>24</b> 0530 0.81		<b>9</b> 0434 1.48		<b>24</b> 0150 2.24		<b>9</b> 0414 1.32		<b>24</b> 0607 1.37		<b>9</b> 0541 1.70		<b>24</b> 0241 2.41	
1132 2.38		1206 2.79		1114 2.21		0744 1.59		1016 2.35		1144 2.22		1023 1.98		1032 1.49	
FR 1822 1.54		SA 1848 1.14		MO 1813 1.52		TU 1344 2.12		MO 1639 1.25		TU 1821 1.14		TH 1713 1.26		FR 1549 1.70	
2232 1.81				2317 1.85		2044 1.31		2237 2.19						2053 1.46	
<b>10</b> 0437 1.31		<b>25</b> 0033 2.16		<b>10</b> 0427 1.67		<b>25</b> 0411 2.30		<b>10</b> 0434 1.51		<b>25</b> 0125 2.40		<b>10</b> 0102 2.21		<b>25</b> 0423 2.43	
1205 2.25		0629 1.16		1122 2.07		1042 1.65		1027 2.22		0751 1.63		0838 1.79		1136 1.33	
SA 1925 1.58		SU 1306 2.53		TU 1940 1.55		WE 1611 2.00		TU 1703 1.33		WE 1304 1.93		FR 1037 1.80		SA 1730 1.86	
2257 1.70		2002 1.23				2242 1.25		2315 2.09		1947 1.34		1831 1.39		2244 1.43	
<b>11</b> 0430 1.50		<b>26</b> 0221 2.07		<b>11</b> 1102 1.93		<b>26</b> 0539 2.51		<b>11</b> 0454 1.71		<b>26</b> 0336 2.38		<b>11</b> 0315 2.27		<b>26</b> 0524 2.49	
1256 2.13		0756 1.47		2138 1.49		1212 1.46		1033 2.07		1101 1.57		1117 1.61		1210 1.20	
SU 2103 1.56		MO 1432 2.31		WE		TH 1741 2.08		WE 1741 1.42		TH 1613 1.84		SA 1517 1.76		SU 1812 2.03	
		2138 1.21				2351 1.09				2204 1.38		2102 1.41		2343 1.35	
<b>12</b> 1420 2.04		<b>27</b> 0429 2.19		<b>12</b> 0629 2.10		<b>27</b> 0629 2.70		<b>12</b> 0137 1.99		<b>27</b> 0512 2.52		<b>12</b> 0442 2.45		<b>27</b> 0605 2.54	
2301 1.45		1013 1.59		1224 1.77		1254 1.29		0536 1.91		1204 1.38		1143 1.39		1238 1.11	
MO		TU 1618 2.20		TH 1607 1.91		FR 1831 2.19		TH 1013 1.92		FR 1742 1.98		SU 1655 1.94		MO 1843 2.16	
		2305 1.09		2303 1.31				1933 1.50		2327 1.27		2247 1.26			
<b>13</b> 0641 1.91		<b>28</b> 0550 2.43		<b>13</b> 0627 2.31		<b>28</b> 0036 0.94		<b>13</b> 0503 2.14		<b>28</b> 0603 2.64		<b>13</b> 0532 2.65		<b>28</b> 0024 1.26	
1028 1.80		1157 1.48		1235 1.60		0706 2.82		1221 1.72		1238 1.22		1213 1.16		0636 2.55	
TU 1550 2.01		WE 1736 2.21		FR 1720 2.02		SA 1327 1.17		FR 1536 1.81		SA 1825 2.13		MO 1747 2.19		TU 1302 1.03	
2326 1.30				2350 1.08		1907 2.28		2201 1.42				2346 1.03		1910 2.27	
<b>14</b> 0645 2.09		<b>29</b> 0003 0.92		<b>14</b> 0644 2.54		<b>29</b> 0016 1.14		<b>14</b> 0540 2.37		<b>29</b> 0016 1.14		<b>14</b> 0612 2.83		<b>29</b> 0057 1.20	
1158 1.70		0640 2.65		1258 1.40		0640 2.72		1218 1.52		0640 2.72		1245 0.94		0703 2.54	
WE 1654 2.04		TH 1254 1.33		SA 1807 2.17		SU 1306 1.12		SA 1709 1.96		SU 1306 1.12		TU 1830 2.44		WE 1325 0.97	
2348 1.14		1828 2.25				1857 2.25		2321 1.19		1857 2.25				1935 2.36	
<b>15</b> 0652 2.26		<b>30</b> 0047 0.77		<b>15</b> 0029 0.83		<b>30</b> 0052 1.04		<b>15</b> 0611 2.62		<b>30</b> 0052 1.04		<b>15</b> 0033 0.82		<b>30</b> 0125 1.17	
1235 1.57		0721 2.81		0709 2.79		0711 2.75		1240 1.30		0711 2.75		0650 2.98		0725 2.51	
TH 1739 2.10		FR 1335 1.21		SU 1328 1.19		MO 1332 1.05		SU 1759 2.18		MO 1332 1.05		WE 1318 0.72		TH 1344 0.92	
		1909 2.29		1849 2.35		1925 2.34				1925 2.34		1911 2.68		1958 2.42	
		<b>31</b> 0125 0.66				<b>31</b> 0123 0.98				<b>31</b> 0123 0.98					
		0755 2.90				0737 2.75				0737 2.75					
		SA 1410 1.12				TU 1355 1.00				TU 1355 1.00					
		1944 2.32				1951 2.41				1951 2.41					

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Datum of Predictions is Lowest Astronomical Tide  
Times are in local standard time (Time Zone UTC +10:00)

# LEGGATT ISLAND – QUEENSLAND

LAT 14° 32' LONG 144° 51'  
Times and Heights of High and Low Waters

# 2015

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> 0151 1.15		<b>16</b> 0149 0.82		<b>1</b> 0226 1.24		<b>16</b> 0319 0.98		<b>1</b> 0250 1.13		<b>16</b> 0350 0.99		<b>1</b> 0352 0.78		<b>16</b> 0416 1.04	
0744 2.47		0743 2.75		0754 2.22		0849 2.28		0809 2.18		0913 2.12		0921 2.38		0940 2.07	
FR 1401 0.86		SA 1408 0.38		MO 1413 0.62		TU 1509 0.40		WE 1429 0.40		TH 1529 0.51		SA 1537 0.23		SU 1552 0.82	
2020 2.48		2027 2.97		2053 2.61		2145 2.92		2112 2.80		2204 2.76		2209 3.01		2216 2.43	
<b>2</b> 0215 1.15		<b>17</b> 0233 0.82		<b>2</b> 0258 1.22		<b>17</b> 0404 1.04		<b>2</b> 0328 1.07		<b>17</b> 0427 1.06		<b>2</b> 0435 0.78		<b>17</b> 0437 1.11	
0802 2.42		0822 2.65		0822 2.20		0926 2.16		0848 2.21		0941 2.04		1007 2.35		1000 2.01	
SA 1418 0.81		SU 1444 0.35		TU 1441 0.57		WE 1544 0.51		TH 1506 0.36		FR 1557 0.65		SU 1620 0.36		MO 1610 0.99	
2041 2.52		2109 3.02		2124 2.67		2226 2.83		2149 2.87		2235 2.63		2251 2.92		2235 2.30	
<b>3</b> 0239 1.17		<b>18</b> 0319 0.89		<b>3</b> 0335 1.22		<b>18</b> 0452 1.13		<b>3</b> 0411 1.04		<b>18</b> 0502 1.15		<b>3</b> 0521 0.83		<b>18</b> 0458 1.19	
0821 2.38		0900 2.50		0855 2.17		1001 2.02		0930 2.20		1006 1.95		1058 2.27		1024 1.92	
SU 1438 0.77		MO 1521 0.40		WE 1513 0.56		TH 1618 0.69		FR 1546 0.39		SA 1621 0.82		MO 1706 0.60		TU 1628 1.17	
2105 2.55		2154 2.98		2200 2.71		2307 2.69		2230 2.89		2304 2.49		2337 2.74		2253 2.16	
<b>4</b> 0306 1.21		<b>19</b> 0407 1.02		<b>4</b> 0418 1.24		<b>19</b> 0542 1.24		<b>4</b> 0459 1.05		<b>19</b> 0537 1.25		<b>4</b> 0614 0.92		<b>19</b> 0524 1.26	
0843 2.32		0939 2.32		0933 2.11		1034 1.88		1016 2.15		1029 1.86		1200 2.14		1054 1.83	
MO 1500 0.75		TU 1558 0.54		TH 1550 0.61		FR 1649 0.89		SA 1630 0.50		SU 1641 1.01		TU 1801 0.90		WE 1644 1.36	
2133 2.58		2240 2.87		2242 2.71		2348 2.53		2316 2.83		2332 2.35				2310 2.02	
<b>5</b> 0338 1.27		<b>20</b> 0501 1.18		<b>5</b> 0512 1.29		<b>20</b> 0637 1.35		<b>5</b> 0553 1.08		<b>20</b> 0616 1.34		<b>5</b> 0031 2.50		<b>20</b> 0602 1.33	
0907 2.25		1018 2.10		1016 2.02		1108 1.74		1109 2.06		1057 1.76		0717 1.01		1147 1.72	
TU 1526 0.76		WE 1636 0.75		FR 1631 0.72		SA 1719 1.10		SU 1718 0.69		MO 1701 1.20		WE 1326 2.04		TH 1644 1.56	
2204 2.57		2330 2.72		2332 2.67								1913 1.20		2315 1.87	
<b>6</b> 0415 1.36		<b>21</b> 0606 1.33		<b>6</b> 0618 1.34		<b>21</b> 0033 2.38		<b>6</b> 0008 2.72		<b>21</b> 0002 2.20		<b>6</b> 0140 2.26		<b>21</b> 0713 1.37	
0935 2.15		1058 1.89		1110 1.91		0741 1.42		0654 1.12		0704 1.40		0836 1.05		0723 1.75	
WE 1554 0.82		TH 1715 0.98		SA 1721 0.88		SU 1202 1.63		MO 1217 1.96		TU 1143 1.66		TH 1520 2.06		FR	
2244 2.54						1755 1.31		1816 0.93		1722 1.40		2102 1.41			
<b>7</b> 0503 1.47		<b>22</b> 0027 2.55		<b>7</b> 0033 2.61		<b>22</b> 0125 2.24		<b>7</b> 0108 2.58		<b>22</b> 0043 2.07		<b>7</b> 0314 2.09		<b>22</b> 0856 1.35	
1006 2.03		0727 1.44		0736 1.35		0905 1.42		0805 1.14		0809 1.42		1009 1.00		1812 1.94	
TH 1628 0.93		FR 1155 1.71		SU 1231 1.82		MO 1422 1.57		TU 1350 1.91		WE 1431 1.61		FR 1701 2.25		SA	
2336 2.48		1804 1.22		1827 1.07		1905 1.50		1930 1.17		1824 1.60		2308 1.38			
<b>8</b> 0620 1.57		<b>23</b> 0137 2.40		<b>8</b> 0144 2.55		<b>23</b> 0230 2.14		<b>8</b> 0218 2.43		<b>23</b> 0147 1.95		<b>8</b> 0449 2.04		<b>23</b> 0032 1.59	
1051 1.88		0913 1.45		0858 1.29		1037 1.35		0923 1.09		0940 1.37		1123 0.86		0342 1.69	
FR 1714 1.08		SA 1401 1.60		MO 1420 1.81		TU 1731 1.72		WE 1538 1.98		TH 1812 1.79		SA 1805 2.46		SU 1032 1.22	
		1921 1.43		1954 1.22		2100 1.62		2108 1.33		2137 1.70				1818 2.11	
<b>9</b> 0050 2.43		<b>24</b> 0302 2.32		<b>9</b> 0301 2.51		<b>24</b> 0345 2.09		<b>9</b> 0338 2.32		<b>24</b> 0309 1.88		<b>9</b> 0021 1.23		<b>24</b> 0036 1.45	
0815 1.58		1050 1.36		1011 1.16		1124 1.25		1037 0.97		1057 1.26		0556 2.07		0501 1.77	
SA 1227 1.75		SU 1701 1.71		TU 1602 1.94		WE 1812 1.88		TH 1706 2.18		FR 1833 1.96		SU 1217 0.70		MO 1127 1.04	
1829 1.24		2114 1.54		2133 1.29		2301 1.61		2252 1.35				1852 2.64		1831 2.30	
<b>10</b> 0224 2.43		<b>25</b> 0422 2.30		<b>10</b> 0412 2.50		<b>25</b> 0446 2.07		<b>10</b> 0453 2.27		<b>25</b> 0000 1.62		<b>10</b> 0110 1.08		<b>25</b> 0051 1.29	
0959 1.45		1134 1.25		1108 0.99		1153 1.14		1136 0.81		0426 1.86		0644 2.13		0549 1.90	
SU 1453 1.76		MO 1752 1.88		WE 1715 2.16		TH 1842 2.04		FR 1807 2.41		SA 1132 1.12		MO 1300 0.57		TU 1207 0.82	
2022 1.33		2253 1.52		2300 1.25						1850 2.12		1930 2.76		1853 2.51	
<b>11</b> 0348 2.51		<b>26</b> 0515 2.31		<b>11</b> 0512 2.50		<b>26</b> 0003 1.55		<b>11</b> 0007 1.26		<b>26</b> 0038 1.51		<b>11</b> 0149 0.97		<b>26</b> 0114 1.11	
1058 1.26		1205 1.15		1154 0.80		0527 2.06		0553 2.25		0521 1.89		0724 2.17		0629 2.07	
MO 1630 1.94		TU 1826 2.03		TH 1810 2.40		FR 1216 1.03		SA 1224 0.65		SU 1201 0.96		TU 1338 0.48		WE 1245 0.59	
2209 1.28		2348 1.46				1906 2.17		1857 2.61		1904 2.27		2006 2.81		1921 2.71	
<b>12</b> 0451 2.61		<b>27</b> 0552 2.31		<b>12</b> 0005 1.16		<b>27</b> 0043 1.48		<b>12</b> 0104 1.15		<b>27</b> 0104 1.39		<b>12</b> 0223 0.91		<b>27</b> 0142 0.92	
1141 1.05		1230 1.06		0602 2.50		0559 2.06		0643 2.24		0602 1.96		0758 2.20		0708 2.24	
TU 1731 2.18		WE 1854 2.16		FR 1236 0.63		SA 1236 0.91		SU 1307 0.51		MO 1231 0.78		WE 1412 0.46		TH 1323 0.38	
2322 1.14				1857 2.62		1927 2.29		1939 2.76		1923 2.44		2038 2.80		1952 2.90	
<b>13</b> 0541 2.71		<b>28</b> 0028 1.40		<b>13</b> 0058 1.07		<b>28</b> 0114 1.40		<b>13</b> 0151 1.05		<b>28</b> 0132 1.25		<b>13</b> 0255 0.89		<b>28</b> 0215 0.74	
1219 0.84		0621 2.29		0647 2.48		0629 2.08		0725 2.24		0641 2.05		0829 2.20		0747 2.41	
WE 1819 2.43		TH 1252 0.98		SA 1316 0.48		SU 1258 0.77		MO 1347 0.42		TU 1304 0.59		TH 1443 0.48		FR 1402 0.22	
		1921 2.27		1941 2.79		1947 2.42		2018 2.86		1948 2.62		2107 2.75		2027 3.03	
<b>14</b> 0016 0.99		<b>29</b> 0101 1.35		<b>14</b> 0147 1.00		<b>29</b> 0144 1.31		<b>14</b> 0234 0.98		<b>29</b> 0202 1.10		<b>14</b> 0325 0.91		<b>29</b> 0250 0.60	
0624 2.77		0644 2.27		0730 2.44		0659 2.10		0805 2.22		0719 2.16		0856 2.17		0828 2.53	
TH 1255 0.65		FR 1310 0.89		SU 1354 0.38		MO 1324 0.63		TU 1423 0.39		WE 1339 0.41		FR 1509 0.56		SA 1442 0.16	
1902 2.66		1944 2.36		2023 2.91		2010 2.55		2055 2.88		2017 2.79		2134 2.66		2104 3.08	
<b>15</b> 0104 0.88		<b>30</b> 0130 1.31		<b>15</b> 0233 0.97		<b>30</b> 0215 1.22		<b>15</b> 0313 0.96		<b>30</b> 0236 0.96		<b>15</b> 0352 0.96		<b>30</b> 0327 0.53	
0704 2.78		0705 2.25		0810 2.37		0733 2.14		0841 2.18		0758 2.27		0919 2.13		0910 2.59	
FR 1331 0.48		SA 1328 0.80		MO 1432 0.35		TU 1355 0.50		WE 1458 0.42		TH 1417 0.27		SA 1533 0.68		SU 1523 0.20	
1944 2.85		2005 2.44		2105 2.95		2039 2.68		2131 2.84		2052 2.93		2157 2.55		2142 3.03	
		<b>31</b> 0157 1.27								<b>31</b> 0312 0.84				<b>31</b> 0406 0.52	
		0728 2.23								0839 2.35				0955 2.58	
		SU 1349 0.71								FR 1456 0.20				MO 1606 0.37	
		2027 2.52								2129 3.02				2222 2.87	

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Datum of Predictions is Lowest Astronomical Tide  
Times are in local standard time (Time Zone UTC +10:00)

# LEGGATT ISLAND – QUEENSLAND

LAT 14° 32' LONG 144° 51'  
Times and Heights of High and Low Waters

# 2015

Local Time

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> 0449	0.60	<b>16</b> 0404	1.00	<b>1</b> 0501	0.61	<b>16</b> 0347	0.87	<b>1</b> 0006	1.69	<b>16</b> 0434	0.96	<b>1</b> 0113	1.57	<b>16</b> 0535	1.02
1044	2.48	1004	2.08	1132	2.51	1025	2.19	0629	1.05	1212	2.29	0659	1.28	1259	2.49
TU 1652	0.64	WE 1606	1.21	TH 1743	1.11	FR 1626	1.43	SU 1406	2.39	MO 1950	1.56	TU 1436	2.33	WE 2019	1.40
2305	2.63	2159	2.10	2322	2.12	2133	1.91	2139	1.33	2251	1.63	2224	1.30		
<b>2</b> 0536	0.74	<b>17</b> 0423	1.06	<b>2</b> 0554	0.83	<b>17</b> 0409	0.96	<b>2</b> 0243	1.57	<b>17</b> 0530	1.13	<b>2</b> 0428	1.63	<b>17</b> 0112	1.73
1145	2.33	1033	2.00	1252	2.36	1108	2.11	0813	1.24	1348	2.28	0845	1.44	0654	1.21
WE 1748	0.98	TH 1628	1.39	FR 1916	1.36	SA 1717	1.60	MO 1547	2.39	TU 2152	1.44	WE 1603	2.30	TH 1419	2.45
2354	2.33	2207	1.97	2137	1.78	2137	1.78	2307	1.17			2320	1.18	2142	1.28
<b>3</b> 0633	0.91	<b>18</b> 0444	1.14	<b>3</b> 0036	1.81	<b>18</b> 0437	1.09	<b>3</b> 0458	1.72	<b>18</b> 0204	1.56	<b>3</b> 0538	1.82	<b>18</b> 0321	1.81
1309	2.20	1113	1.90	0711	1.05	1235	2.04	1007	1.27	0725	1.27	1032	1.46	0839	1.34
TH 1909	1.30	FR 1649	1.58	SA 1444	2.30	SU		TU 1656	2.45	WE 1517	2.35	TH 1702	2.31	FR 1538	2.45
		2202	1.83	2157	1.37			2348	1.03	2245	1.25	2355	1.08	2244	1.10
<b>4</b> 0106	2.03	<b>19</b> 0513	1.24	<b>4</b> 0308	1.67	<b>19</b> 0528	1.23	<b>4</b> 0550	1.91	<b>19</b> 0405	1.72	<b>4</b> 0616	2.00	<b>19</b> 0449	2.03
0753	1.04	1332	1.83	0907	1.15	1453	2.08	1117	1.20	0926	1.27	1136	1.41	1021	1.33
FR 1506	2.18	SA		SU 1628	2.41	MO 2348	1.44	WE 1742	2.49	TH 1623	2.47	FR 1743	2.31	SA 1643	2.48
2126	1.44			2329	1.18					2322	1.04			2332	0.89
<b>5</b> 0306	1.85	<b>20</b> 0640	1.33	<b>5</b> 0506	1.79	<b>20</b> 0253	1.51	<b>5</b> 0019	0.92	<b>20</b> 0509	1.97	<b>5</b> 0022	0.98	<b>20</b> 0547	2.29
0941	1.06	1701	1.96	1048	1.08	0815	1.31	0626	2.06	1048	1.15	0647	2.15	1135	1.24
SA 1651	2.34	SU		MO 1731	2.53	TU 1620	2.24	TH 1205	1.13	FR 1713	2.58	SA 1220	1.36	SU 1736	2.51
2331	1.29			2337	1.26			1817	2.50	2358	0.82	1814	2.30		
<b>6</b> 0500	1.88	<b>21</b> 0031	1.50	<b>6</b> 0011	1.01	<b>21</b> 0437	1.69	<b>6</b> 0046	0.84	<b>21</b> 0555	2.24	<b>6</b> 0046	0.89	<b>21</b> 0014	0.69
1110	0.94	0317	1.56	0559	1.96	1011	1.20	0656	2.19	1146	1.00	0714	2.27	0635	2.56
SU 1753	2.53	MO 0921	1.30	TU 1146	0.96	WE 1708	2.43	FR 1241	1.08	SA 1756	2.67	SU 1255	1.31	MO 1232	1.12
		1725	2.16	1813	2.61	2357	1.06	1846	2.47			1840	2.27	1823	2.53
<b>7</b> 0025	1.10	<b>22</b> 0015	1.34	<b>7</b> 0043	0.89	<b>22</b> 0527	1.93	<b>7</b> 0111	0.78	<b>22</b> 0032	0.61	<b>7</b> 0106	0.82	<b>22</b> 0054	0.50
0601	1.99	0454	1.70	0636	2.10	1117	1.00	0723	2.28	0638	2.49	0740	2.36	0718	2.78
MO 1206	0.80	TU 1051	1.12	WE 1228	0.87	TH 1746	2.62	SA 1312	1.06	SU 1236	0.87	MO 1325	1.28	TU 1322	1.02
1837	2.66	1751	2.37	1847	2.64			1911	2.43	1836	2.72	1901	2.24	1906	2.52
<b>8</b> 0102	0.96	<b>23</b> 0027	1.16	<b>8</b> 0111	0.81	<b>23</b> 0024	0.84	<b>8</b> 0132	0.74	<b>23</b> 0107	0.42	<b>8</b> 0124	0.75	<b>23</b> 0132	0.35
0643	2.10	0541	1.90	0708	2.20	0607	2.18	0749	2.34	0720	2.72	0803	2.43	0801	2.96
TU 1247	0.68	WE 1143	0.89	TH 1303	0.82	FR 1205	0.80	SU 1339	1.06	MO 1322	0.78	TU 1352	1.26	WE 1408	0.95
1913	2.73	1819	2.58	1916	2.63	1822	2.77	1931	2.37	1916	2.71	1921	2.21	1947	2.50
<b>9</b> 0134	0.87	<b>24</b> 0050	0.95	<b>9</b> 0137	0.76	<b>24</b> 0054	0.62	<b>9</b> 0151	0.71	<b>24</b> 0143	0.27	<b>9</b> 0142	0.68	<b>24</b> 0210	0.27
0718	2.18	0619	2.12	0735	2.27	0647	2.43	0812	2.38	0802	2.90	0823	2.49	0841	3.06
WE 1323	0.61	TH 1226	0.66	FR 1333	0.80	SA 1249	0.62	MO 1404	1.08	TU 1407	0.74	WE 1418	1.25	TH 1453	0.93
1944	2.74	1851	2.78	1942	2.58	1859	2.87	1948	2.31	1955	2.65	1942	2.19	2027	2.43
<b>10</b> 0203	0.82	<b>25</b> 0119	0.74	<b>10</b> 0201	0.74	<b>25</b> 0128	0.43	<b>10</b> 0207	0.68	<b>25</b> 0220	0.19	<b>10</b> 0202	0.61	<b>25</b> 0248	0.27
0749	2.23	0657	2.34	0801	2.31	0726	2.65	0834	2.41	0845	3.00	0845	2.55	0923	3.07
TH 1354	0.59	FR 1306	0.45	SA 1400	0.82	SU 1331	0.51	TU 1428	1.12	WE 1453	0.78	TH 1446	1.24	FR 1538	0.97
2013	2.71	1925	2.94	2004	2.51	1935	2.91	2005	2.24	2034	2.54	2006	2.17	2105	2.33
<b>11</b> 0229	0.80	<b>26</b> 0151	0.54	<b>11</b> 0221	0.74	<b>26</b> 0202	0.28	<b>11</b> 0224	0.65	<b>26</b> 0258	0.21	<b>11</b> 0226	0.56	<b>26</b> 0326	0.36
0815	2.25	0736	2.55	0824	2.32	0808	2.82	0855	2.42	0929	3.01	0910	2.61	1004	3.00
FR 1422	0.62	SA 1346	0.31	SU 1423	0.87	MO 1413	0.48	WE 1453	1.17	TH 1541	0.88	FR 1517	1.25	SA 1624	1.05
2037	2.64	2001	3.03	2022	2.43	2013	2.86	2024	2.18	2114	2.37	2034	2.14	2141	2.20
<b>12</b> 0253	0.82	<b>27</b> 0225	0.40	<b>12</b> 0239	0.74	<b>27</b> 0238	0.20	<b>12</b> 0243	0.65	<b>27</b> 0336	0.32	<b>12</b> 0253	0.55	<b>27</b> 0402	0.53
0839	2.25	0817	2.70	0846	2.32	0850	2.91	0919	2.43	1016	2.93	0940	2.65	1044	2.87
SA 1446	0.68	SU 1427	0.26	MO 1445	0.94	TU 1457	0.55	TH 1520	1.23	FR 1633	1.03	SA 1554	1.28	SU 1712	1.18
2058	2.56	2037	3.03	2037	2.34	2051	2.73	2044	2.10	2154	2.16	2105	2.10	2216	2.05
<b>13</b> 0314	0.85	<b>28</b> 0301	0.32	<b>13</b> 0253	0.75	<b>28</b> 0314	0.21	<b>13</b> 0305	0.66	<b>28</b> 0416	0.51	<b>13</b> 0325	0.58	<b>28</b> 0435	0.75
0900	2.23	0859	2.78	0906	2.31	0936	2.91	0947	2.43	1106	2.79	1016	2.65	1126	2.69
SU 1507	0.78	MO 1508	0.33	TU 1506	1.03	WE 1544	0.71	FR 1553	1.32	SA 1735	1.20	SU 1639	1.33	MO 1803	1.32
2116	2.46	2114	2.92	2052	2.25	2130	2.52	2106	2.01	2236	1.93	2140	2.03	2249	1.89
<b>14</b> 0331	0.89	<b>29</b> 0338	0.32	<b>14</b> 0309	0.77	<b>29</b> 0353	0.33	<b>14</b> 0330	0.72	<b>29</b> 0457	0.76	<b>14</b> 0400	0.68	<b>29</b> 0506	1.00
0920	2.20	0944	2.77	0928	2.29	1024	2.82	1021	2.40	1202	2.61	1058	2.62	1210	2.50
MO 1526	0.90	TU 1552	0.51	WE 1529	1.15	TH 1636	0.94	SA 1635	1.43	SU 1851	1.34	MO 1736	1.39	TU 1905	1.43
2131	2.35	2153	2.72	2107	2.15	2210	2.25	2131	1.91	2327	1.72	2223	1.93	2327	1.73
<b>15</b> 0347	0.94	<b>30</b> 0418	0.42	<b>15</b> 0327	0.81	<b>30</b> 0435	0.53	<b>15</b> 0358	0.82	<b>30</b> 0546	1.04	<b>15</b> 0442	0.83	<b>30</b> 0538	1.26
0940	2.15	1033	2.67	0954	2.25	1120	2.67	1106	2.34	1311	2.44	1152	2.56	1302	2.33
TU 1545	1.05	WE 1642	0.79	TH 1555	1.28	FR 1742	1.19	SU 1742	1.53	MO 2029	1.38	TU 1852	1.43	WE 2027	1.49
2146	2.23	2234	2.44	2122	2.03	2256	1.96	2200	1.78			2322	1.81		
				<b>31</b> 0522	0.79							<b>31</b> 0110	1.61		
				1231	2.50							0628	1.50		
				SA 1918	1.36							TH 1411	2.19		
												2232	1.43		

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Datum of Predictions is Lowest Astronomical Tide  
Times are in local standard time (Time Zone UTC +10:00)

# AUSTRALIA, TORRES STRAIT – TWIN ISLAND

LAT 10° 28' S LONG 142° 26' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0413 0.47 1037 3.14 TH 1717 0.89 2221 2.14	<b>16</b>	0338 0.84 1026 2.84 FR 1710 1.15 2156 1.92
<b>2</b>	0442 0.46 1107 3.29 FR 1758 0.79 2257 2.09	<b>17</b>	0404 0.70 1034 3.07 SA 1729 0.98 2226 2.05
<b>3</b>	0508 0.48 1137 3.34 SA 1836 0.77 2329 2.04	<b>18</b>	0435 0.55 1056 3.29 SU 1800 0.81 2302 2.17
<b>4</b>	0528 0.52 1206 3.32 SU 1911 0.82 2356 1.97	<b>19</b>	0511 0.43 1127 3.47 MO 1836 0.67 2342 2.26
<b>5</b>	0542 0.59 1232 3.24 MO 1944 0.90 ○	<b>20</b>	0551 0.36 1205 3.58 TU 1915 0.58 ●
<b>6</b>	0020 1.90 0522 0.68 TU 1254 3.13 2015 1.02	<b>21</b>	0024 2.30 0631 0.37 WE 1245 3.60 1956 0.55
<b>7</b>	0040 1.82 0509 0.73 WE 1309 2.98 2044 1.15	<b>22</b>	0108 2.28 0712 0.50 TH 1327 3.51 2040 0.61
<b>8</b>	0100 1.72 0522 0.82 TH 1318 2.81 2113 1.29	<b>23</b>	0154 2.19 0753 0.76 FR 1409 3.29 2129 0.75
<b>9</b>	0119 1.59 0530 0.92 FR 1313 2.62 2152 1.42	<b>24</b>	0244 2.04 0839 1.12 SA 1454 2.94 2228 0.92
<b>10</b>	0047 1.46 0534 1.02 SA 1241 2.46	<b>25</b>	0347 1.87 1003 1.54 SU 1545 2.49 2352 1.05
<b>11</b>	0530 1.13 1209 2.36 SU	<b>26</b>	0917 2.02 1232 1.75 MO 1708 2.04
<b>12</b>	0308 1.22 1126 2.35 MO 1905 1.64 2123 1.71	<b>27</b>	0146 1.01 0943 2.41 TU 1511 1.46 ● 2100 1.89
<b>13</b>	0258 1.13 1057 2.40 TU 1755 1.58 ● 2138 1.74	<b>28</b>	0249 0.89 0957 2.72 WE 1609 1.12 2140 1.95
<b>14</b>	0305 1.05 1039 2.51 WE 1713 1.46 2131 1.77	<b>29</b>	0332 0.78 1010 2.98 TH 1647 0.85 2209 2.01
<b>15</b>	0319 0.95 1030 2.66 TH 1703 1.31 2135 1.83	<b>30</b>	0407 0.70 1031 3.17 FR 1721 0.69 2236 2.05
		<b>31</b>	0437 0.63 1057 3.29 SA 1753 0.62 2303 2.09

## FEBRUARY

Time	m	Time	m
<b>1</b>	0503 0.60 1124 3.32 SU 1824 0.65 2327 2.09	<b>16</b>	0428 0.65 1037 3.35 MO 1745 0.61 2254 2.32
<b>2</b>	0522 0.61 1150 3.29 MO 1851 0.73 2348 2.08	<b>17</b>	0506 0.46 1110 3.55 TU 1817 0.48 2332 2.48
<b>3</b>	0536 0.64 1212 3.21 TU 1915 0.85	<b>18</b>	0547 0.33 1147 3.66 WE 1853 0.40
<b>4</b>	0007 2.07 0541 0.69 WE 1230 3.11 ○ 1933 0.96	<b>19</b>	0012 2.59 0628 0.30 TH 1227 3.66 ● 1930 0.41
<b>5</b>	0024 2.07 0514 0.74 TH 1243 3.00 1944 1.07	<b>20</b>	0052 2.64 0709 0.42 FR 1306 3.53 2008 0.51
<b>6</b>	0041 2.04 0520 0.80 FR 1250 2.86 1950 1.17	<b>21</b>	0135 2.60 0752 0.68 SA 1346 3.24 2049 0.71
<b>7</b>	0059 1.98 0531 0.90 SA 1245 2.69 1952 1.27	<b>22</b>	0220 2.47 0839 1.07 SU 1426 2.80 2136 0.99
<b>8</b>	0111 1.89 0541 1.03 SU 1220 2.54 1843 1.33	<b>23</b>	0314 2.26 0952 1.51 MO 1507 2.27 2241 1.29
<b>9</b>	0033 1.80 0549 1.19 MO 1202 2.41 * 1840 1.33	<b>24</b>	0437 2.07 1859 1.59 TU 2109 1.73 *
<b>10</b>	1131 2.33 1836 1.34 TU 2308 1.77 *	<b>25</b>	0055 1.43 0923 2.46 WE 1545 1.23 2158 1.91
<b>11</b>	0459 1.52 1047 2.36 WE 1806 1.33 2300 1.80	<b>26</b>	0243 1.29 0942 2.74 TH 1613 0.88 ● 2218 2.01
<b>12</b>	0257 1.40 1018 2.49 TH 1713 1.24 ● 2242 1.79	<b>27</b>	0328 1.13 0954 2.94 FR 1639 0.67 2228 2.09
<b>13</b>	0308 1.25 1011 2.66 FR 1657 1.09 2209 1.83	<b>28</b>	0401 0.99 1011 3.10 SA 1706 0.56 2241 2.16
<b>14</b>	0327 1.08 1007 2.87 SA 1702 0.93 2202 1.96		
<b>15</b>	0354 0.87 1014 3.11 SU 1718 0.77 2223 2.14		

## MARCH

Time	m	Time	m
<b>1</b>	0429 0.88 1033 3.19 SU 1732 0.55 2258 2.23	<b>16</b>	0343 1.08 0945 3.12 MO 1654 0.62 2215 2.31
<b>2</b>	0454 0.81 1058 3.22 MO 1757 0.62 2315 2.27	<b>17</b>	0419 0.83 1011 3.35 TU 1721 0.49 2244 2.53
<b>3</b>	0513 0.79 1121 3.19 TU 1819 0.72 2334 2.30	<b>18</b>	0458 0.61 1047 3.51 WE 1753 0.39 2319 2.73
<b>4</b>	0529 0.80 1142 3.12 WE 1836 0.82 2350 2.33	<b>19</b>	0539 0.46 1124 3.57 TH 1826 0.34 2356 2.89
<b>5</b>	0542 0.84 1200 3.04 TH 1847 0.90	<b>20</b>	0620 0.43 1204 3.52 FR 1900 0.37 ●
<b>6</b>	0007 2.37 0543 0.89 FR 1214 2.94 ○ 1857 0.96	<b>21</b>	0036 2.98 0702 0.53 SA 1243 3.33 1935 0.50
<b>7</b>	0025 2.40 0521 0.95 SA 1226 2.82 1903 1.03	<b>22</b>	0116 2.98 0745 0.77 SU 1321 3.01 2010 0.73
<b>8</b>	0044 2.39 0529 1.05 SU 1225 2.65 1810 1.10	<b>23</b>	0158 2.88 0835 1.11 MO 1358 2.55 2044 1.05
<b>9</b>	0101 2.34 0541 1.18 MO 1153 2.48 1802 1.09	<b>24</b>	0246 2.67 0947 1.48 TU 1434 2.02 2121 1.42
<b>10</b>	0110 2.25 0553 1.36 TU 1141 2.34 1809 1.10	<b>25</b>	0353 2.43 1453 1.49 WE 1549 1.50 1817 1.38
<b>11</b>	0044 2.14 0600 1.56 WE 1117 2.21 1810 1.14	<b>26</b>	0844 2.43 1530 1.06 TH 2212 2.01
<b>12</b>	0004 2.04 0552 1.78 TH 1006 2.23 * 1750 1.18	<b>27</b>	0229 1.69 0907 2.65 FR 1554 0.77 ● 2226 2.15
<b>13</b>	0938 2.42 1635 1.10 FR 2303 1.97 *	<b>28</b>	0316 1.49 0919 2.80 SA 1616 0.62 2230 2.22
<b>14</b>	0251 1.58 0934 2.63 SA 1626 0.93 ● 2227 1.97	<b>29</b>	0347 1.32 0936 2.92 SU 1639 0.57 2236 2.30
<b>15</b>	0313 1.34 0931 2.87 SU 1635 0.77 2202 2.10	<b>30</b>	0414 1.19 0958 2.99 MO 1702 0.59 2247 2.37
		<b>31</b>	0437 1.10 1022 3.02 TU 1722 0.66 2300 2.44

## APRIL

Time	m	Time	m
<b>1</b>	0458 1.06 1046 3.00 WE 1739 0.73 2316 2.51	<b>16</b>	0448 0.83 1022 3.29 TH 1725 0.38 2305 2.94
<b>2</b>	0518 1.05 1108 2.95 TH 1753 0.79 2333 2.58	<b>17</b>	0530 0.70 1101 3.28 FR 1758 0.36 2341 3.12
<b>3</b>	0537 1.06 1129 2.87 FR 1805 0.83 2351 2.66	<b>18</b>	0612 0.66 1140 3.18 SA 1830 0.40
<b>4</b>	0556 1.10 1148 2.78 SA 1817 0.86 ○	<b>19</b>	0019 3.24 0654 0.73 SU 1219 2.97 ● 1902 0.53
<b>5</b>	0010 2.73 0615 1.17 SU 1206 2.66 1821 0.92	<b>20</b>	0057 3.27 0739 0.89 MO 1257 2.66 1931 0.75
<b>6</b>	0031 2.76 0633 1.29 MO 1218 2.48 1724 0.93	<b>21</b>	0137 3.18 0832 1.13 TU 1335 2.27 1743 1.07
<b>7</b>	0050 2.73 0550 1.43 TU 1137 2.28 1732 0.93	<b>22</b>	0222 2.99 0944 1.37 WE 1414 1.83 1755 1.17
<b>8</b>	0109 2.66 0601 1.58 WE 1123 2.12 1746 0.97	<b>23</b>	0319 2.73 1330 1.39 TH
<b>9</b>	0129 2.54 0617 1.76 TH 1058 1.97 1754 1.07	<b>24</b>	0445 2.51 1454 1.05 FR 2225 2.06
<b>10</b>	0210 2.36 1736 1.18 FR	<b>25</b>	0033 2.00 0705 2.47 SA 1521 0.82 2228 2.20
<b>11</b>	0501 2.25 1543 1.06 SA 2301 2.06	<b>26</b>	0255 1.80 0820 2.58 SU 1545 0.71 ● 2228 2.28
<b>12</b>	0208 1.85 0828 2.57 SU 1545 0.86 ● 2218 2.09	<b>27</b>	0328 1.62 0850 2.66 MO 1607 0.68 2230 2.36
<b>13</b>	0246 1.56 0840 2.83 MO 1601 0.68 2150 2.24	<b>28</b>	0356 1.49 0917 2.71 TU 1626 0.70 2235 2.44
<b>14</b>	0326 1.28 0909 3.05 TU 1625 0.55 2203 2.48	<b>29</b>	0420 1.39 0943 2.73 WE 1642 0.73 2245 2.54
<b>15</b>	0406 1.03 0944 3.21 WE 1654 0.44 2231 2.72	<b>30</b>	0442 1.33 1010 2.71 TH 1656 0.76 2259 2.64

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

\* Denotes extra Tides







# AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

LAT 10° 35' S LONG 142° 13' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

## FEBRUARY

## MARCH

## APRIL

Time m		Time m		Time m		Time m		Time m							
<b>1</b>	0501 0.96 1129 3.33 TH 1810 1.11 2320 1.95	<b>16</b>	0411 1.22 1109 3.16 FR 1751 1.26 2243 1.94	<b>1</b>	0001 1.93 0553 1.38 SU 1153 3.43 1911 0.91	<b>16</b>	0505 1.32 1114 3.50 MO 1832 0.81 2330 2.15	<b>1</b>	0002 2.26 0513 1.40 SU 1103 3.33 1812 0.74	<b>16</b>	0418 1.51 1015 3.30 MO 1730 0.71 2308 2.26	<b>1</b>	0551 1.58 1116 2.88 WE 1830 1.07	<b>16</b>	0532 1.36 1055 3.12 TH 1814 0.71 2339 2.65
<b>2</b>	0534 1.13 1146 3.39 FR 1852 1.03 2344 1.83	<b>17</b>	0440 1.24 1118 3.28 SA 1821 1.12 2302 1.95	<b>2</b>	0013 1.87 0614 1.49 MO 1220 3.36 1944 1.04	<b>17</b>	0545 1.29 1146 3.60 TU 1910 0.79	<b>2</b>	0002 2.15 0541 1.46 MO 1127 3.27 1842 0.88	<b>17</b>	0456 1.41 1044 3.41 TU 1805 0.68 2321 2.34	<b>2</b>	0004 2.29 0614 1.62 TH 1135 2.77 1846 1.25	<b>17</b>	0618 1.29 1135 3.00 FR 1850 0.86
<b>3</b>	0601 1.29 1212 3.40 SA 1931 1.01	<b>18</b>	0513 1.25 1138 3.41 SU 1856 1.00 2334 1.97	<b>3</b>	0029 1.85 0612 1.58 TU 1247 3.24 2015 1.20	<b>18</b>	0004 2.21 0625 1.28 WE 1224 3.62 1949 0.82	<b>3</b>	0005 2.09 0605 1.53 TU 1151 3.18 1909 1.06	<b>18</b>	0539 1.33 1120 3.46 WE 1842 0.72 2351 2.44	<b>3</b>	0011 2.32 0636 1.66 FR 1153 2.64 1857 1.40	<b>18</b>	0014 2.77 0704 1.26 SA 1214 2.79 1925 1.05
<b>4</b>	0012 1.74 0619 1.44 SU 1242 3.36 2010 1.05	<b>19</b>	0548 1.28 1208 3.52 MO 1935 0.92	<b>4</b>	0043 1.84 0336 1.48 WE 1309 3.10 ○ 2045 1.36	<b>19</b>	0042 2.25 0706 1.33 TH 1302 3.54 ● 2031 0.92	<b>4</b>	0016 2.07 0622 1.60 WE 1213 3.07 1933 1.26	<b>19</b>	0621 1.29 1159 3.41 TH 1920 0.82	<b>4</b>	0022 2.37 0658 1.70 SA 1210 2.50 ○ 1905 1.50	<b>19</b>	0053 2.85 0753 1.28 SU 1252 2.51 ● 2000 1.28
<b>5</b>	0038 1.67 0314 1.40 MO 1312 3.27 ○ 2050 1.14	<b>20</b>	0012 1.99 0624 1.32 TU 1245 3.58 ● 2017 0.90	<b>5</b>	0054 1.83 0354 1.44 TH 1325 2.94 2113 1.52	<b>20</b>	0123 2.26 0749 1.44 FR 1341 3.35 2114 1.07	<b>5</b>	0026 2.09 0626 1.66 TH 1231 2.93 1952 1.43	<b>20</b>	0027 2.52 0706 1.30 FR 1238 3.26 ● 1958 0.98	<b>5</b>	0038 2.43 0724 1.76 SU 1225 2.35 1911 1.60	<b>20</b>	0134 2.87 0847 1.34 MO 1328 2.17 1620 1.67
<b>6</b>	0057 1.62 0335 1.34 TU 1341 3.13 2132 1.25	<b>21</b>	0054 1.98 0656 1.40 WE 1325 3.56 2100 0.92	<b>6</b>	0109 1.81 0414 1.43 FR 1330 2.77 2144 1.65	<b>21</b>	0206 2.23 0447 1.76 SA 1419 3.02 2205 1.26	<b>6</b>	0038 2.11 0352 1.65 FR 1245 2.78 ○ 2006 1.57	<b>21</b>	0106 2.58 0752 1.38 SA 1315 3.00 2037 1.19	<b>6</b>	0054 2.46 0758 1.83 MO 1236 2.19 1625 1.46	<b>21</b>	0219 2.82 0956 1.40 TU 1358 1.80 * 1628 1.53
<b>7</b>	0109 1.56 0356 1.30 WE 1405 2.96 2225 1.35	<b>22</b>	0138 1.94 0424 1.44 TH 1406 3.45 2150 0.98	<b>7</b>	0118 1.77 0431 1.45 SA 1228 2.60 *	<b>22</b>	0255 2.15 0954 1.85 SU 1456 2.59 * 2315 1.43	<b>7</b>	0053 2.14 0409 1.64 SA 1251 2.62 2016 1.69	<b>22</b>	0148 2.58 0846 1.52 SU 1351 2.63 2121 1.44	<b>7</b>	0109 2.47 0450 1.98 TU 1108 2.04 1639 1.35	<b>22</b>	0314 2.71 1158 1.35 WE 1417 1.42 * 1628 1.36
<b>8</b>	0124 1.50 0414 1.28 TH 1422 2.77	<b>23</b>	0226 1.87 0442 1.54 FR 1448 3.21 2248 1.07	<b>8</b>	0443 1.49 1139 2.52 SU 1737 1.91 1944 2.03	<b>23</b>	0756 2.39 1200 1.95 MO 2005 2.28	<b>8</b>	0106 2.14 0428 1.67 SU 1201 2.46 1658 1.75	<b>23</b>	0234 2.53 0954 1.66 MO 1423 2.19 * 2216 1.69	<b>8</b>	0119 2.43 0502 2.07 WE 0700 2.16 1654 1.26	<b>23</b>	0652 2.61 1517 1.08 TH 2142 2.35
<b>9</b>	0428 1.26 1235 2.60 FR	<b>24</b>	0815 2.00 0949 1.98 SA 1532 2.87	<b>9</b>	0445 1.54 1038 2.52 MO 1740 1.76 2053 2.08	<b>24</b>	0106 1.49 0845 2.75 TU 1533 1.60 2121 2.36	<b>9</b>	0102 2.12 0443 1.73 MO 1125 2.35 * 1705 1.61	<b>24</b>	0702 2.46 1651 1.63 TU 2027 2.18	<b>9</b>	0019 2.39 0513 2.17 TH 0732 2.32 1707 1.22	<b>24</b>	0137 2.07 0758 2.70 FR 1531 0.81 2219 2.53
<b>10</b>	0428 1.26 1120 2.58 SA	<b>25</b>	0007 1.12 0848 2.35 SU 1157 2.12 1928 2.45	<b>10</b>	0414 1.58 1008 2.65 TU 1746 1.61 2151 2.14	<b>25</b>	0223 1.44 0926 3.05 WE 1616 1.18 2218 2.44	<b>10</b>	0957 2.29 1715 1.48 TU 2334 2.14 *	<b>25</b>	0019 1.86 0800 2.71 WE 1543 1.27 2133 2.38	<b>10</b>	0800 2.50 1630 1.16 FR 2249 2.34	<b>25</b>	0248 1.92 0843 2.75 SA 1554 0.64 2251 2.63
<b>11</b>	0345 1.24 1046 2.66 SU 1758 2.03 2033 2.15	<b>26</b>	0135 1.10 0923 2.71 MO 1437 1.89 2057 2.39	<b>11</b>	0311 1.57 1004 2.80 WE 1741 1.48 2230 2.18	<b>26</b>	0320 1.37 0959 3.24 TH 1644 0.88 ● 2303 2.45	<b>11</b>	0456 1.90 0855 2.45 WE 1726 1.37 2234 2.22	<b>26</b>	0205 1.80 0848 2.92 TH 1558 0.91 2221 2.53	<b>11</b>	0232 2.11 0825 2.68 SA 1547 0.96 2248 2.38	<b>26</b>	0333 1.79 0914 2.76 SU 1621 0.58 ● 2320 2.63
<b>12</b>	0329 1.21 1041 2.77 MO 1748 1.87 2124 2.14	<b>27</b>	0240 1.06 0956 3.03 TU 1606 1.52 ● 2206 2.36	<b>12</b>	0314 1.53 1014 2.94 TH 1720 1.34 ● 2258 2.17	<b>27</b>	0404 1.34 1025 3.33 FR 1712 0.71 2339 2.38	<b>12</b>	0311 1.94 0909 2.64 TH 1717 1.28 2244 2.30	<b>27</b>	0306 1.68 0926 3.05 FR 1621 0.67 ● 2258 2.59	<b>12</b>	0254 1.95 0848 2.85 SU 1602 0.78 ● 2258 2.39	<b>27</b>	0409 1.70 0939 2.73 MO 1647 0.62 2341 2.58
<b>13</b>	0323 1.20 1044 2.89 TU 1742 1.72 ● 2206 2.10	<b>28</b>	0331 1.04 1027 3.26 WE 1654 1.19 2258 2.30	<b>13</b>	0332 1.48 1025 3.07 FR 1713 1.18 2314 2.12	<b>28</b>	0440 1.35 1044 3.35 SA 1742 0.67	<b>13</b>	0302 1.85 0926 2.81 FR 1639 1.13 2258 2.32	<b>28</b>	0350 1.59 0952 3.09 SA 1647 0.57 2330 2.56	<b>13</b>	0326 1.78 0912 3.00 MO 1630 0.65 2310 2.39	<b>28</b>	0442 1.64 1001 2.68 TU 1711 0.73 2350 2.51
<b>14</b>	0331 1.20 1053 2.98 WE 1735 1.56 2237 2.04	<b>29</b>	0414 1.08 1052 3.39 TH 1729 0.97 2338 2.18	<b>14</b>	0357 1.43 1035 3.21 SA 1729 1.02 2312 2.07	<b>14</b>	0428 1.37 1049 3.36 SU 1758 0.90 2308 2.09	<b>14</b>	0318 1.75 0940 2.98 SA 1639 0.95 ● 2311 2.29	<b>29</b>	0425 1.54 1012 3.08 SU 1715 0.59 2353 2.46	<b>14</b>	0405 1.62 0940 3.11 TU 1702 0.60 2308 2.41	<b>29</b>	0510 1.61 1021 2.61 WE 1732 0.88 2353 2.48
<b>15</b>	0348 1.21 1102 3.06 TH 1734 1.41 2247 1.97	<b>30</b>	0451 1.16 1110 3.44 FR 1803 0.86	<b>15</b>	0428 1.37 1049 3.36 SU 1758 0.90 2308 2.09	<b>15</b>	0428 1.37 1049 3.36 SU 1758 0.90 2308 2.09	<b>15</b>	0344 1.63 0955 3.15 SU 1700 0.81 2317 2.25	<b>30</b>	0457 1.53 1032 3.04 MO 1743 0.70 2358 2.36	<b>15</b>	0448 1.48 1016 3.15 WE 1737 0.62 2313 2.51	<b>30</b>	0539 1.60 1040 2.51 TH 1747 1.05 2357 2.48
<b>31</b>	0000 2.04 0524 1.27 SA 1129 3.46 1837 0.84					<b>31</b>	0526 1.55 1055 2.98 TU 1809 0.87 2358 2.30								

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols



New Moon



First Quarter



Full Moon



Last Quarter

Bureau of Meteorology

National Tidal Centre

\* Denotes extra Tides

# AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

LAT 10° 35' S LONG 142° 13' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0606 1.59	<b>16</b>	0618 1.22	<b>1</b>	0705 1.35	<b>16</b>	0038 3.15	<b>1</b>	0101 3.23	<b>16</b>	0120 2.70
	1100 2.41		1119 2.48		1132 1.91		0755 0.90		0831 0.76		0853 1.26
FR	1758 1.19	SA	1823 0.93	MO	1757 1.29	TU	1234 1.76	WE	1159 1.78	TH	1259 1.62
							1901 1.33		1813 1.25	●	1534 1.31
<b>2</b>	0000 2.52	<b>17</b>	0007 2.96	<b>2</b>	0015 2.84	<b>17</b>	0115 3.12	<b>2</b>	0038 3.06	<b>17</b>	0130 2.98
	0634 1.58		0706 1.14		0742 1.30		0841 0.92		0812 0.95		0901 0.98
SA	1122 2.29	SU	1159 2.28	TU	1202 1.85	WE	1309 1.63	TH	1238 1.78	FR	1321 1.57
	1809 1.30		1856 1.12		1816 1.36	●	1540 1.32	○	1838 1.30	FR	1557 1.26
<b>3</b>	0009 2.59	<b>18</b>	0044 3.04	<b>3</b>	0040 2.90	<b>18</b>	0153 3.03	<b>3</b>	0114 3.10	<b>18</b>	0158 2.81
	0704 1.58		0756 1.11		0823 1.26		0930 0.98		0854 0.93		0943 1.13
SU	1146 2.18	MO	1238 2.05	WE	1238 1.78	TH	1339 1.50	FR	1321 1.74	SA	1338 1.51
	1821 1.39	●	1926 1.32	○	1550 1.20		1602 1.27		1618 1.21		1618 1.24
<b>4</b>	0025 2.66	<b>19</b>	0124 3.06	<b>4</b>	0113 2.92	<b>19</b>	0229 2.87	<b>4</b>	0156 3.07	<b>19</b>	0221 2.62
	0739 1.58		0848 1.11		0911 1.23		1025 1.06		0942 0.94		1035 1.26
MO	1211 2.06	TU	1314 1.81	TH	1317 1.68	FR	1406 1.37	SA	1408 1.67	SU	1355 1.44
○	1831 1.47		1554 1.42		1615 1.19		1620 1.23		1642 1.27		1636 1.23
<b>5</b>	0044 2.71	<b>20</b>	0207 2.99	<b>5</b>	0156 2.89	<b>20</b>	0306 2.67	<b>5</b>	0240 2.98	<b>20</b>	0232 2.40
	0820 1.59		0949 1.14		1008 1.19		1141 1.12		1037 0.95		1647 1.23
TU	1238 1.93	WE	1347 1.56	FR	1403 1.54	SA	1432 1.23	SU		MO	
	1602 1.27		1611 1.34		1638 1.21		1627 1.18				
<b>6</b>	0109 2.73	<b>21</b>	0253 2.85	<b>6</b>	0248 2.82	<b>21</b>	0343 2.45	<b>6</b>	0326 2.80	<b>21</b>	0000 2.23
	0914 1.59		1109 1.14		1120 1.12		1353 1.09		1148 0.95		1637 1.23
WE	1308 1.77	TH	1417 1.31	SA		SU	2240 2.29	MO		TU	2242 2.30
	1621 1.21		1618 1.24								
<b>7</b>	0139 2.69	<b>22</b>	0347 2.67	<b>7</b>	0349 2.72	<b>22</b>	0212 2.17	<b>7</b>	0420 2.54	<b>22</b>	1538 1.21
	1641 1.19		1252 1.06		1246 0.99		0425 2.23		1312 0.90		2235 2.42
TH		FR	2209 2.24	SU		MO	1508 0.99	TU	2122 2.18	WE	
							2242 2.42				
<b>8</b>	0231 2.61	<b>23</b>	0034 2.21	<b>8</b>	0500 2.61	<b>23</b>	0326 1.99	<b>8</b>	0102 1.87	<b>23</b>	0551 1.60
	1656 1.20		0457 2.51		1354 0.83		0825 2.11		0742 2.29		0935 1.92
FR		SA	1458 0.89	MO	2201 2.23	TU	1534 0.94	WE	1420 0.83	TH	1536 1.19
			2221 2.43				2254 2.52		2152 2.47		2235 2.53
<b>9</b>	0409 2.54	<b>24</b>	0227 2.08	<b>9</b>	0124 1.98	<b>24</b>	0413 1.81	<b>9</b>	0253 1.65	<b>24</b>	0542 1.43
	1408 1.08		0750 2.44		0721 2.53		0914 2.07		0905 2.22		1021 1.92
SA	2247 2.25	SU	1528 0.77	TU	1448 0.71	WE	1552 0.94	TH	1514 0.80	FR	1534 1.20
			2245 2.55		2218 2.42	●	2306 2.59	●	2223 2.71	●	2242 2.63
<b>10</b>	0033 2.21	<b>25</b>	0319 1.93	<b>10</b>	0250 1.78	<b>25</b>	0447 1.64	<b>10</b>	0406 1.36	<b>25</b>	0536 1.28
	0714 2.60		0839 2.41		0825 2.49		0954 2.02		1012 2.14		1054 1.89
SU	1448 0.86	MO	1555 0.72	WE	1533 0.65	TH	1603 0.98	FR	1600 0.82	SA	1545 1.20
	2230 2.33		2308 2.61	●	2243 2.58		2314 2.64		2251 2.90		2252 2.71
<b>11</b>	0210 2.03	<b>26</b>	0358 1.80	<b>11</b>	0352 1.57	<b>26</b>	0515 1.50	<b>11</b>	0501 1.10	<b>26</b>	0538 1.14
	0758 2.71		0914 2.37		0914 2.41		1023 1.95		1059 2.03		1116 1.82
MO	1524 0.69	TU	1618 0.74	TH	1614 0.67	FR	1613 1.04	SA	1641 0.89	SU	1603 1.20
●	2240 2.42	●	2326 2.62		2306 2.72		2323 2.69		2311 3.03		2301 2.80
<b>12</b>	0305 1.83	<b>27</b>	0432 1.70	<b>12</b>	0447 1.36	<b>27</b>	0538 1.37	<b>12</b>	0546 0.89	<b>27</b>	0548 1.02
	0837 2.78		0941 2.31		0957 2.29		1034 1.87		1124 1.90		1113 1.76
TU	1600 0.60	WE	1637 0.83	FR	1653 0.75	SA	1628 1.10	SU	1718 0.99	MO	1628 1.20
	2259 2.49		2336 2.61		2318 2.86		2331 2.73		2329 3.12		2308 2.90
<b>13</b>	0354 1.64	<b>28</b>	0502 1.61	<b>13</b>	0536 1.18	<b>28</b>	0600 1.26	<b>13</b>	0626 0.76	<b>28</b>	0609 0.91
	0916 2.80		1001 2.23		1038 2.16		1037 1.81		1139 1.80		1103 1.75
WE	1636 0.59	TH	1651 0.94	SA	1729 0.88	SU	1648 1.14	MO	1753 1.10	TU	1659 1.18
	2311 2.56		2344 2.61		2334 2.99		2335 2.80		2355 3.17		2324 3.02
<b>14</b>	0443 1.48	<b>29</b>	0532 1.53	<b>14</b>	0624 1.03	<b>29</b>	0626 1.16	<b>14</b>	0706 0.71	<b>29</b>	0638 0.82
	0956 2.75		1016 2.14		1117 2.02		1056 1.78		1204 1.72		1123 1.79
TH	1713 0.65	FR	1703 1.05	SU	1803 1.02	MO	1714 1.18	TU	1824 1.22	WE	1734 1.17
	2313 2.67		2350 2.62				2345 2.90				2350 3.13
<b>15</b>	0531 1.34	<b>30</b>	0601 1.47	<b>15</b>	0003 3.10	<b>30</b>	0657 1.07	<b>15</b>	0026 3.17	<b>30</b>	0713 0.76
	1037 2.64		1037 2.06		0710 0.93		1125 1.78		0744 0.75		1155 1.85
FR	1748 0.77	SA	1717 1.14	MO	1156 1.89	TU	1743 1.21	WE	1232 1.67	TH	1811 1.16
	2334 2.83		2351 2.67		1835 1.18				1847 1.33		
		<b>31</b>	0632 1.40							<b>31</b>	0024 3.21
			1103 1.98								0751 0.74
			SU 1736 1.22								FR 1232 1.88
			2358 2.76								○ 1847 1.18

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols



New Moon



First Quarter



Full Moon



Last Quarter

Bureau of Meteorology

National Tidal Centre

\* Denotes extra Tides

# AUSTRALIA, TORRES STRAIT – THURSDAY ISLAND

LAT 10° 35' S LONG 142° 13' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0155 2.85	<b>16</b>	0020 2.19	<b>1</b>	0207 2.11	<b>16</b>	0424 1.17	<b>1</b>	0111 1.00	<b>16</b>	0440 1.06	<b>1</b>	0210 0.85	<b>16</b>	0050 1.10
	0931 1.03		0446 1.50		0943 1.46		1143 2.36		0918 2.24		1512 2.52		1002 2.49		1614 2.72
TU	1428 2.09	WE	2311 2.09	TH	1818 2.28	FR	1647 1.97	SU	1248 2.04	MO		TU	1355 2.20	WE	
*	2122 1.49	*		*	2302 1.43	*	1847 2.07	MO	1921 2.71				1918 2.60		
<b>2</b>	0232 2.48	<b>17</b>	0454 1.36	<b>2</b>	0756 1.95	<b>17</b>	0439 1.07	<b>2</b>	0300 0.72	<b>17</b>	0221 1.06	<b>2</b>	0303 0.71	<b>17</b>	0143 0.93
	1028 1.23		1140 2.01		1103 1.69		1152 2.35		0958 2.47		1900 2.53		1028 2.68		1024 2.40
WE	1908 2.05	TH	1646 1.66	FR	1918 2.52	SA	1657 2.05	MO	1417 1.91	TU		WE	1459 2.03	TH	1256 2.27
	2251 1.63		2148 2.05	*		*	1919 2.19		2015 2.76				2017 2.53		1746 2.60
<b>3</b>	0733 1.99	<b>18</b>	0503 1.22	<b>3</b>	0155 1.18	<b>18</b>	0454 1.01	<b>3</b>	0333 0.52	<b>18</b>	0242 0.86	<b>3</b>	0337 0.64	<b>18</b>	0229 0.79
	1200 1.37		1136 2.03		0907 2.16		1158 2.29		1032 2.62		1039 2.40		1054 2.79		1017 2.58
TH	2002 2.38	FR	1650 1.74	SA	1324 1.70	SU	1656 2.14	TU	1511 1.77	WE	1408 2.17	TH	1545 1.89	FR	1428 2.06
			2035 2.21		2013 2.74		1947 2.34	MO	2055 2.75		1939 2.64	MO	2059 2.45		2003 2.57
<b>4</b>	0144 1.47	<b>19</b>	0515 1.10	<b>4</b>	0333 0.79	<b>19</b>	0451 0.98	<b>4</b>	0403 0.43	<b>19</b>	0309 0.69	<b>4</b>	0406 0.65	<b>19</b>	0312 0.70
	0853 2.10		1051 2.08		0958 2.36		1053 2.29		1103 2.67		1039 2.48		1117 2.83		1035 2.77
FR	1343 1.35	SA	1602 1.80	SU	1436 1.59	MO	1443 2.07	WE	1552 1.67	TH	1447 1.97	FR	1624 1.78	SA	1529 1.83
	2051 2.69		2053 2.37		2058 2.89		2010 2.49		2124 2.69		2015 2.71		2132 2.36		2052 2.50
<b>5</b>	0352 1.05	<b>20</b>	0517 1.02	<b>5</b>	0402 0.51	<b>20</b>	0351 0.86	<b>5</b>	0432 0.45	<b>20</b>	0340 0.58	<b>5</b>	0430 0.73	<b>20</b>	0351 0.69
	0955 2.22		1048 2.15		1038 2.47		1050 2.33		1130 2.65		1053 2.56		1132 2.84		1056 2.94
SA	1449 1.28	SU	1508 1.76	MO	1526 1.48	TU	1450 1.94	TH	1629 1.61	FR	1531 1.79	SA	1701 1.68	SU	1624 1.60
☉	2131 2.92		2111 2.53	☉	2133 2.95		2031 2.65		2148 2.61		2051 2.73		2158 2.25		2135 2.39
<b>6</b>	0424 0.69	<b>21</b>	0446 0.92	<b>6</b>	0430 0.37	<b>21</b>	0352 0.69	<b>6</b>	0459 0.56	<b>21</b>	0413 0.54	<b>6</b>	0447 0.87	<b>21</b>	0428 0.75
	1043 2.29		1101 2.18		1113 2.48		1056 2.34		1147 2.59		1108 2.64		1141 2.85		1114 3.08
SU	1540 1.22	MO	1514 1.67	TU	1607 1.42	WE	1511 1.79	FR	1703 1.59	SA	1619 1.61	SU	1736 1.61	MO	1716 1.39
	2204 3.05	☉	2126 2.67		2157 2.93	☉	2052 2.78		2211 2.51		2130 2.69		2215 2.13		2216 2.25
<b>7</b>	0453 0.48	<b>22</b>	0435 0.78	<b>7</b>	0459 0.36	<b>22</b>	0413 0.57	<b>7</b>	0522 0.73	<b>22</b>	0448 0.59	<b>7</b>	0459 1.01	<b>22</b>	0506 0.86
	1122 2.26		1112 2.15		1142 2.40		1107 2.33		1151 2.54		1112 2.74		1150 2.86		1125 3.23
MO	1621 1.20	TU	1531 1.57	WE	1642 1.40	TH	1543 1.63	SA	1735 1.58	SU	1708 1.46	MO	1809 1.54	TU	1805 1.20
	2228 3.09		2138 2.82		2218 2.87		2118 2.89		2230 2.39		2211 2.59		2229 2.02		2256 2.12
<b>8</b>	0524 0.40	<b>23</b>	0448 0.66	<b>8</b>	0528 0.46	<b>23</b>	0441 0.51	<b>8</b>	0540 0.93	<b>23</b>	0524 0.69	<b>8</b>	0508 1.14	<b>23</b>	0541 1.01
	1152 2.16		1118 2.10		1157 2.29		1111 2.33		1157 2.53		1122 2.89		1158 2.89		1148 3.36
TU	1657 1.22	WE	1558 1.45	TH	1715 1.42	FR	1623 1.50	SU	1806 1.59	MO	1758 1.32	TU	1842 1.49	WE	1852 1.05
	2248 3.07		2155 2.97		2241 2.79		2150 2.94		2247 2.27		2254 2.44		2251 1.93		2337 1.98
<b>9</b>	0555 0.44	<b>24</b>	0513 0.58	<b>9</b>	0555 0.64	<b>24</b>	0515 0.52	<b>9</b>	0551 1.10	<b>24</b>	0559 0.85	<b>9</b>	0518 1.24	<b>24</b>	0614 1.17
	1205 2.03		1110 2.07		1155 2.21		1105 2.41		1204 2.55		1150 3.05		1204 2.93		1221 3.44
WE	1730 1.27	TH	1634 1.35	FR	1745 1.47	SA	1708 1.38	MO	1837 1.60	TU	1847 1.20	WE	1914 1.45	TH	1939 0.97
	2311 3.02		2221 3.08		2304 2.68		2229 2.93		2308 2.14		2337 2.26		2317 1.84		
<b>10</b>	0626 0.58	<b>25</b>	0543 0.54	<b>10</b>	0620 0.85	<b>25</b>	0550 0.59	<b>10</b>	0555 1.24	<b>25</b>	0633 1.04	<b>10</b>	0530 1.33	<b>25</b>	0018 1.85
	1200 1.94		1108 2.13		1200 2.19		1123 2.54		1209 2.59		1226 3.17		1215 2.97		0644 1.34
TH	1800 1.34	FR	1715 1.26	SA	1812 1.52	SU	1755 1.29	TU	1909 1.60	WE	1938 1.12	TH	1949 1.42	FR	1258 3.45
	2337 2.93		2256 3.15		2324 2.55		2310 2.84		2330 2.02				2346 1.77	☉	2025 0.95
<b>11</b>	0654 0.77	<b>26</b>	0619 0.56	<b>11</b>	0638 1.07	<b>26</b>	0626 0.72	<b>11</b>	0555 1.34	<b>26</b>	0019 2.04	<b>11</b>	0309 1.27	<b>26</b>	0057 1.72
	1209 1.92		1132 2.24		1209 2.20		1155 2.68		1220 2.65		0706 1.25		1233 3.01		0702 1.52
FR	1824 1.42	SA	1800 1.20	SU	1837 1.58	MO	1844 1.23	WE	1944 1.61	TH	1307 3.21	FR	2026 1.39	SA	1337 3.37
			2334 3.14		2341 2.42		2351 2.67		2353 1.90	☉	2032 1.08	☉			2113 0.99
<b>12</b>	0002 2.81	<b>27</b>	0656 0.64	<b>12</b>	0648 1.25	<b>27</b>	0702 0.90	<b>12</b>	0330 1.27	<b>27</b>	0101 1.81	<b>12</b>	0017 1.71	<b>27</b>	0135 1.59
	0721 0.99		1206 2.34		1218 2.24		1233 2.80		1233 2.69		0735 1.48		0331 1.20		0349 1.34
SA	1222 1.92	SU	1845 1.18	MO	1902 1.64	TU	1934 1.21	TH	2024 1.61	FR	1351 3.18	SA	1257 3.02	SU	1416 3.22
	1841 1.50				2357 2.28	☉		☉			2131 1.06		2109 1.37		2207 1.06
<b>13</b>	0022 2.67	<b>28</b>	0014 3.04	<b>13</b>	0649 1.38	<b>28</b>	0032 2.42	<b>13</b>	0018 1.77	<b>28</b>	0144 1.56	<b>13</b>	0053 1.63	<b>28</b>	0213 1.45
	0741 1.19		0733 0.78		1229 2.30		0737 1.12		0345 1.17		0357 1.33		0354 1.16		0409 1.31
SU	1233 1.94	MO	1245 2.43	TU	1928 1.69	WE	1314 2.86	FR	1248 2.70	SA	1439 3.07	SU	1330 3.00	MO	1455 3.02
☉	1845 1.58	☉	1932 1.21	☉			2029 1.22		2328 1.61		2242 1.04		2203 1.33		2315 1.13
<b>14</b>	0036 2.52	<b>29</b>	0053 2.83	<b>14</b>	0011 2.13	<b>29</b>	0111 2.11	<b>14</b>	0043 1.63	<b>29</b>	0234 1.32	<b>14</b>	0135 1.52	<b>29</b>	0257 1.31
	0754 1.36		0812 0.97		0637 1.47		0813 1.37		0403 1.10		0409 1.25		0418 1.16		0418 1.27
MO	1246 1.97	TU	1326 2.47	WE	1241 2.33	TH	1401 2.85	SA	1305 2.68	SU	1531 2.90	MO	1414 2.94	TU	1533 2.77
	1558 1.51		2024 1.29		2001 1.75		2133 1.24						2327 1.25		
<b>15</b>	0045 2.36	<b>30</b>	0130 2.52	<b>15</b>	0016 1.97	<b>30</b>	0150 1.76	<b>15</b>	0423 1.06	<b>30</b>	0012 0.98	<b>15</b>	0228 1.39	<b>30</b>	0059 1.12
	0757 1.49		0853 1.20		0411 1.28		0416 1.44		1328 2.62		1635 2.72		0439 1.21		1028 2.46
TU	1257 1.99	WE	1413 2.46	TH	1245 2.35	FR	1455 2.77	SU				TU	1510 2.84	WE	1331 2.40
	1617 1.54		2128 1.40	*			2307 1.19				MO				1614 2.51
				<b>31</b>	0235 1.38	<b>31</b>	0422 1.30							<b>31</b>	0237 1.03
				SA	1610 2.67	*								TH	1503 2.21
															2004 2.33

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon      ☽ First Quarter      ☽ Full Moon      ☾ Last Quarter

Bureau of Meteorology

National Tidal Centre  
\* Denotes extra Tides

# AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

POSITIVE (+) DIRECTION 080° NEGATIVE (-) DIRECTION 260°

# 2015

Time Zone -1000

## JANUARY

## FEBRUARY

## MARCH

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0007	0346	5.80	16 0255	0316	3.16
0730	0959	-3.02	0854	0.01	
TH 1237	1604	5.55	FR 1449	3.30	
1920	2222	-4.23	1858	2116	-1.38
			2331		
2 0110	0448	6.38	17 0348	3.90	
0835	1059	-3.05	0837	0948	-0.41
FR 1324	1657	5.62	SA 1100	1539	3.85
2018	2314	-4.64	1927	2203	-2.25
3 0205	0543	6.77	18 0034	0435	4.75
0932	1151	-2.97	0859	1035	-0.94
SA 1414	1745	5.57	SU 1212	1624	4.53
2102			2000	2247	-3.19
4 0000	-4.81		19 0129	0518	5.61
0253	0630	6.88	0929	1119	-1.54
SU 1026	1239	-2.74	MO 1311	1709	5.26
1457	1828	5.37	2038	2331	-4.10
2145					
5 0043	-4.71		20 0219	0601	6.40
0336	0715	6.72	1002	1203	-2.11
MO 1115	1322	-2.37	TU 1404	1754	5.94
1533	1907	5.05	2120		
2225					
6 0122	-4.36		21 0016	-4.84	
0415	0755	6.33	0308	0646	7.02
TU 1201	1400	-1.91	WE 1041	1248	-2.59
1604	1943	4.64	1456	1841	6.48
2303			2206		
7 0158	-3.83		22 0102	-5.32	
0448	0831	5.78	0357	0731	7.40
WE 1246	1435	-1.41	TH 1124	1335	-2.93
1629	2015	4.20	1546	1930	6.78
2341			2256		
8 0230	-3.20		23 0152	-5.45	
0516	0904	5.16	0445	0820	7.48
TH 1331	1507	-0.95	FR 1211	1424	-3.07
1646	2045	3.78	1639	2022	6.81
			2350		
9 0018	0300	-2.52	24 0244	-5.20	
0540	0935	4.55	0536	0911	7.27
FR 1417	1537	-0.55	SA 1302	1517	-3.02
1659	2114	3.38	1735	2118	6.56
10 0059	0330	-1.87	25 0051	0340	-4.60
0559	1004	4.00	0629	1007	6.81
SA 1510	1607	-0.23	SU 1400	1617	-2.84
1705	2145	3.02	1836	2222	6.12
11 0145	0400	-1.25	26 0202	0444	-3.77
0614	1034	3.54	0725	1109	6.22
SU 1624	1641	-0.01	MO 1505	1724	-2.64
1658	2222	2.72	1945	2336	5.69
12 0245	0436	-0.69	27 0326	0557	-2.93
0625	1110	3.17	0828	1219	5.67
MO 1723	2010	0.10	TU 1615	1839	-2.59
2313	2.48		2104		
13 0417	0523	-0.21	28 0100	5.49	
0629	1155	2.91	0459	0718	-2.33
TU 1818	0.08		WE 0938	1334	5.33
			1725	1957	-2.81
			2229		
14 0024	2.41		29 0225	5.69	
0629	0.13		0630	0841	-2.12
WE 1251	2.82		TH 1054	1448	5.27
1825	1923	-0.16	1830	2109	-3.25
2022			2345		
15 0145	2.63		30 0340	6.16	
0745	0.21		0745	0954	-2.19
TH 1353	2.94		FR 1204	1553	5.38
1836	2025	-0.66	1927	2212	-3.74
2211					
			31 0053	0444	6.64
			0847	1056	-2.33
			SA 1305	1649	5.51
			2017	2305	-4.09

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0148	0537	6.94	16 0004	0408	4.83
0941	1147	-2.38	0836	1011	-0.90
SU 1357	1737	5.55	MO 1145	1600	4.60
2103	2352	-4.21	1935	2224	-3.35
2 0236	0623	6.96	17 0107	0457	5.80
1028	1231	-2.27	0902	1059	-1.77
MO 1438	1819	5.46	TU 1256	1651	5.56
2145			2019	2314	-4.39
3 0032	-4.08		18 0202	0542	6.68
0316	0702	6.72	0935	1145	-2.62
TU 1110	1308	-2.03	WE 1354	1740	6.44
1511	1855	5.25	2105		
2223					
4 0108	-3.74		19 0001	-5.23	
0350	0736	6.28	0253	0627	7.35
WE 1147	1340	-1.70	TH 1013	1230	-3.35
1536	1926	4.96	1448	1829	7.13
2258			2154		
5 0139	-3.27		20 0049	-5.73	
0417	0805	5.73	0343	0713	7.72
TH 1221	1407	-1.34	FR 1054	1317	-3.87
1555	1952	4.64	1541	1918	7.51
2331			2245		
6 0205	-2.72		21 0139	-5.81	
0438	0830	5.16	0431	0800	7.74
FR 1252	1430	-1.02	SA 1139	1406	-4.11
1609	2015	4.32	1634	2011	7.52
			2340		
7 0003	0229	-2.18	22 0230	-5.45	
0454	0851	4.63	0521	0850	7.39
SA 1320	1449	-0.76	SU 1228	1458	-4.06
1620	2038	4.03	1730	2107	7.19
8 0036	0251	-1.66	23 0042	0326	-4.70
0505	0910	4.17	0613	0944	6.74
SU 1347	1509	-0.56	MO 1322	1555	-3.77
1631	2101	3.76	1829	2209	6.60
9 0114	0314	-1.16	24 0152	0428	-3.72
0515	0930	3.78	0707	1044	5.93
MO 1415	1531	-0.42	TU 1424	1659	-3.37
1648	2130	3.48	1935	2321	5.95
10 0201	0340	-0.69	25 0315	0541	-2.75
0519	0954	3.44	0809	1153	5.14
TU 1451	1601	-0.31	WE 1534	1813	-3.04
1712	2207	3.19	2051		
11 0316	0415	-0.21	26 0044	5.52	
0515	1026	3.14	0449	0704	-2.08
WE 1538	1644	-0.24	TH 0922	1311	4.62
1750	2302	2.93	1650	1934	-2.99
			2215		
12 0508	0.24		27 0211	5.52	
TH 1633	1748	-0.27	0621	0830	-1.91
1903			FR 1044	1430	4.49
			1802	2051	-3.25
			2333		
13 0026	2.85		28 0328	5.83	
0630	0.52		0734	0945	-2.10
FR 1230	2.82		SA 1159	1540	4.64
1726	1912	-0.58	1905	2156	-3.62
2057					
14 0200	3.17		14 0548	-0.00	
0803	0.39		1136	2.36	
SA 1353	3.09		SA 1533	1822	-1.45
1810	2030	-1.27	2105		
2245					
15 0313	3.90		15 0120	2.93	
0832	0915	-0.14	SU 0639	0729	-0.13
SU 0959	1502	3.73	0819	1313	2.54
1852	2131	-2.26	1652	1952	-2.02
			2242		

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0041	0430	6.17	16 0242	3.58	
0831	1045	-2.36	0706	0849	-0.78
SU 1301	1637	4.86	MO 1031	1436	3.21
1959	2250	-3.91	1800	2104	-2.96
			2359		
2 0136	0521	6.34	17 0343	4.47	
0917	1132	-2.53	0739	0948	-1.72
MO 1350	1724	5.01	TU 1158	1540	4.19
2045	2336	-4.00	1858	2203	-4.04
3 0222	0603	6.27	18 0101	0433	5.41
0958	1212	-2.54	0815	1039	-2.77
TU 1430	1803	5.02	WE 1302	1635	5.26
2125			1950	2256	-5.04
4 0015	-3.88		19 0156	0520	6.24
0300	0638	5.97	0852	1126	-3.78
WE 1030	1245	-2.42	TH 1400	1727	6.23
1501	1836	4.91	2043	2345	-5.79
2200					
5 0046	-3.59		20 0246	0606	6.82
0330	0708	5.53	0931	1213	-4.63
TH 1059	1311	-2.22	FR 1452	1817	6.94
1526	1903	4.72	2134		
2232					
6 0115	-3.20		21 0335	0035	-6.17
0355	0731	5.03	0652	0652	7.08
FR 1122	1332	-2.00	SA 1014	1300	-5.21
1545	1927	4.50	1545	1908	7.30
2301			2228		
7 0138	-2.77		22 0125	-6.12	
0415	0752	4.55	0424	0739	6.97
SA 1141	1351	-1.82	SU 1058	1347	-5.45
1603	1948	4.27	1637	2000	7.25
2329			2323		
8 0159	-2.36				

# AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

POSITIVE (+) DIRECTION 080° NEGATIVE (-) DIRECTION 260°

# 2015

Time Zone -1000

## APRIL

Slack Maximum			Slack Maximum		
Time	Time	Rate	Time	Time	Rate
<b>1</b>	0210	0532 4.87	<b>16</b>	0101	0411 4.68
	0900	1143 -3.19		0723	1020 -4.11
WE	1428	1739 3.99	TH	1316	1623 4.61
	2045	2347 -3.92		1921	2240 -5.64
<b>2</b>	0246	0604 4.59	<b>17</b>	0154	0500 5.32
	0928	1211 -3.20		0806	1109 -5.13
TH	1458	1810 4.00	FR	1409	1716 5.52
	2118			2018	2332 -6.17
<b>3</b>	0316	0018 -3.71	<b>18</b>	0244	0546 5.73
	0949	1235 -3.15		0849	1156 -5.94
FR	1523	1837 3.94	SA	1500	1808 6.15
	2148			2114	
<b>4</b>	0342	0045 -3.45	<b>19</b>	0333	0633 5.83
	1007	1256 -3.10		0932	1244 -6.46
SA	1545	1900 3.84	SU	1552	1900 6.43
	2215		●	2209	
<b>5</b>	0403	0108 -3.16	<b>20</b>	0422	0720 5.61
	1021	1315 -3.07		1016	1331 -6.62
SU	1607	1923 3.72	MO	1645	1952 6.33
	2241			2304	
<b>6</b>	0423	0130 -2.86	<b>21</b>	0513	0206 -5.64
	1034	1333 -3.06		1101	1422 -6.44
MO	1630	1946 3.59	TU	1739	2047 5.90
	2308				
<b>7</b>	0442	0152 -2.56	<b>22</b>	0607	0300 -4.88
	1048	1354 -3.07		0900	0900 4.31
TU	1656	2013 3.42	WE	1148	1515 -5.95
	2338			1837	2146 5.24
<b>8</b>	0502	0217 -2.24	<b>23</b>	0707	0401 -4.03
	1107	1419 -3.07		0956	3.44
WE	1728	2044 3.21	TH	1239	1614 -5.29
				1941	2252 4.52
<b>9</b>	0528	0247 -1.90	<b>24</b>	0816	0510 -3.28
	1132	1452 -3.03		1100	2.61
TH	1808	2124 2.94	FR	1337	1719 -4.62
				2051	
<b>10</b>	0600	0326 -1.55	<b>25</b>	0939	0004 3.93
	1207	1536 -2.93		1215	2.03
FR	1900	2217 2.65	SA	1445	1833 -4.12
				2206	
<b>11</b>	0646	0420 -1.20	<b>26</b>	1102	0120 3.59
	1259	1637 -2.81		1334	1.84
SA	2011	2330 2.47	SU	1600	1948 -3.88
			●	2317	
<b>12</b>	0802	0539 -1.03	<b>27</b>	1213	0230 3.47
	1411	1800 -2.85		1445	2.97
SU	2133		MO	1714	2055 -3.85
●					
<b>13</b>	0942	0058 2.61	<b>28</b>	1307	0328 3.44
	1542	1927 -3.26		1543	3.29
MO	2255		TU	1815	2149 -3.89
<b>14</b>	1110	0215 3.15	<b>29</b>	1349	0111 0414 3.38
	1707	2042 -4.01		1629	3.54
TU			WE	1907	2234 -3.90
<b>15</b>	1218	0317 3.90	<b>30</b>	1423	0154 0451 3.26
	1818	2145 -4.88		1706	3.73
WE			TH	1949	2312 -3.86

## MAY

Slack Maximum			Slack Maximum		
Time	Time	Rate	Time	Time	Rate
<b>1</b>	0230	0522 3.08	<b>16</b>	0152	0442 4.37
	0814	1131 -3.88		0729	1055 -6.13
FR	1452	1738 2.88	SA	1417	1710 4.79
	2025	2343 -3.77		2002	2323 -6.07
<b>2</b>	0300	0547 2.89	<b>17</b>	0243	0530 4.59
	0833	1156 -4.00		0815	1144 -6.81
SA	1517	1806 2.99	SU	1509	1803 5.30
	2056			2100	
<b>3</b>	0328	0011 -3.65	<b>18</b>	0332	0015 -6.07
	0850	0610 2.71		0617	4.57
SU	1543	1832 3.06	MO	0859	1231 -7.19
	2126		●	1600	1856 5.50
<b>4</b>	0353	0037 -3.51	<b>19</b>	0423	0106 -5.80
	0907	1240 -4.25		0704	4.29
MO	1608	1859 3.10	TU	0942	1319 -7.24
○	2155			1651	1947 5.38
<b>5</b>	0417	0102 -3.35	<b>20</b>	0515	0159 -5.32
	0925	0653 2.40		0752	3.79
TU	1635	1927 3.11	WE	1025	1408 -6.98
	2226			1745	2040 4.98
<b>6</b>	0443	0130 -3.17	<b>21</b>	0608	0251 -4.69
	0945	0717 2.27		0841	3.13
WE	1707	1959 3.06	TH	1108	1459 -6.45
	2300			1840	2135 4.38
<b>7</b>	0511	0201 -2.95	<b>22</b>	0708	0347 -4.03
	1011	0745 2.14		0933	2.39
TH	1745	2036 2.94	FR	1152	1551 -5.75
	2339			1938	2233 3.71
<b>8</b>	0546	0238 -2.71	<b>23</b>	0816	0448 -3.44
	1044	0819 1.98		1030	1.70
FR	1831	2121 2.76	SA	1239	1648 -5.00
				2042	2335 3.08
<b>9</b>	0631	0323 -2.45	<b>24</b>	0935	0555 -3.05
	1125	0903 1.77		1135	1.15
SA	1928	2217 2.56	SU	1331	1751 -4.33
				2147	
<b>10</b>	0732	0422 -2.25	<b>25</b>	1058	0039 2.60
	1219	1633 -4.27		1247	0.86
SU	2033	2325 2.44	MO	1433	1859 -3.84
				2254	
<b>11</b>	0850	0534 -2.25	<b>26</b>	1207	0142 2.28
	1331	1116 1.44		1358	0.87
MO	2146	1749 -4.22	TU	1545	2003 -3.56
●			●	2354	
<b>12</b>	0944	0040 2.55	<b>27</b>	1259	0237 2.10
	1015	0655 -2.60		1458	3.22
TU	1501	1910 -4.41	WE	1656	2100 -3.45
	2258				
<b>13</b>	1045	0152 2.91	<b>28</b>	1337	0045 0323 2.00
	1129	0807 -3.31		1546	3.49
WE	1631	2024 -4.85	TH	1757	2148 -3.44
<b>14</b>	1230	0001 0255 3.43	<b>29</b>	1408	0129 0400 1.95
	1751	0909 -4.25		1627	3.78
TH		1514 3.12	FR	1846	2228 -3.46
		2130 -5.37			
<b>15</b>	1326	0100 0350 3.96	<b>30</b>	1435	0205 0432 1.92
	1900	0641 1004 -5.23		1701	4.07
FR		1615 4.02	SA	1930	2302 -3.50
		2228 -5.81			
<b>31</b>	1501	0236 0500 1.93	<b>31</b>	0721	1114 -4.38
	2008	1732 2.30		1501	2334 -3.54
			SU		

## JUNE

Slack Maximum			Slack Maximum		
Time	Time	Rate	Time	Time	Rate
<b>1</b>	0304	0527 1.97	<b>16</b>	0331	0013 -5.46
	0745	1141 -4.71		0608	3.75
MO	1528	1803 2.59	TU	0839	1225 -7.29
	2045			1602	1855 4.97
<b>2</b>	0331	0005 -3.57	<b>17</b>	0421	0103 -5.21
	0811	0554 2.04		0654	3.50
TU	1556	1834 2.85	WE	0922	1311 -7.23
	2120		●	1652	1944 4.82
<b>3</b>	0359	0036 -3.59	<b>18</b>	0511	0152 -4.82
	0839	0622 2.12		0740	3.09
WE	1627	1908 3.06	TH	1003	1357 -6.89
○	2158			1741	2032 4.42
<b>4</b>	0430	0110 -3.58	<b>19</b>	0600	0241 -4.32
	0911	0654 2.20		0824	2.57
TH	1703	1945 3.18	FR	1043	1442 -6.33
	2238			1830	2119 3.85
<b>5</b>	0504	0147 -3.53	<b>20</b>	0653	0329 -3.81
	0947	0730 2.23		0909	2.00
FR	1745	2028 3.21	SA	1120	1527 -5.62
	2322			1920	2207 3.19
<b>6</b>	0545	0230 -3.45	<b>21</b>	0751	0106 0417 -3.32
	1030	0812 2.20		0956	1.43
SA	1832	2115 3.14	SU	1157	1613 -4.84
				2013	2255 2.54
<b>7</b>	0637	0318 -3.35	<b>22</b>	0857	0149 0508 -2.93
	1118	0902 2.09		1046	0.92
SU	1928	2211 3.01	MO	1234	1701 -4.09
				2108	2345 1.96
<b>8</b>	0739	0416 -3.28	<b>23</b>	1012	0230 0602 -2.69
	1217	1001 1.93		1145	0.55
MO	2030	2313 2.88	TU	1315	1756 -3.46
				2207	
<b>9</b>	0852	0523 -3.35	<b>24</b>	1128	0312 0036 1.51
	1328	1114 1.84		1248	0.38
TU	2137	2305	WE	1409	1855 -2.99
			●	2305	
<b>10</b>	0911	0021 2.85	<b>25</b>	1226	0128 1.23
	1451	0636 -3.66		1354	0.44
WE	2245	1856 -5.02	TH	1522	1955 -2.74
●					
<b>11</b>	1011	0130 2.97	<b>26</b>	1619	0000 0216 1.11
	1451	0747 -4.24		2011	0.69
TH	2351	1353 2.40	FR	1640	2051 -2.68
<b>12</b>	1129	0234 3.22	<b>27</b>	1742	0046 0300 1.13
	1656	0853 -5.01		2119	0.32
FR		1506 3.08	SA	1748	1922 -3.32
<b>13</b>	1229	0052 0334 3.50	<b>28</b>	1845	0124 0338 1.25
	1742	0614 0952 -5.82		2220	0.92
SA		1327 1611 3.81	SU	1402	1621 1.54
		1855 2222 -5.45		1845	2220 -2.92
<b>14</b>	1421				

# AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

POSITIVE (+) DIRECTION 080° NEGATIVE (-) DIRECTION 260°

# 2015

Time Zone -1000

## JULY

## AUGUST

## SEPTEMBER

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0254	0520	2.10	16 0413	0646	3.31
0737	1140	-5.41	0915	1303	-6.82
WE 1529	1810	3.08	1643	1936	4.62
2059			2240		
2 0326	0010	-3.65	17 0457	0728	2.99
0816	0556	2.47	0953	1345	-6.40
TH 1604	1216	-5.95	1727	2017	4.16
1604	1848	3.51	2320		
2141					
3 0400	0048	-3.88	18 0539	0807	2.58
0900	0634	2.80	1029	1423	-5.81
FR 1644	1257	-6.38	1808	2056	3.55
1644	1930	3.82	2355		
2224					
4 0441	0130	-4.06	19 0619	0843	2.11
0945	0717	3.04	1101	1459	-5.10
SA 1728	1340	-6.63	1848	2131	2.89
1728	2014	3.99			
2310					
5 0526	0215	-4.16	20 0701	0918	1.65
0804	0816	3.15	1130	1533	-4.36
SU 1033	1428	-6.64	1929	2205	2.24
1815	2101	3.98			
2359					
6 0618	0305	-4.19	21 0746	0955	1.20
0857	0857	3.10	1200	1609	-3.64
MO 1127	1521	-6.41	2010	2239	1.67
1127	2155	3.81			
1909					
7 0719	0401	-4.18	22 0839	1035	0.81
0957	0719	2.92	1229	1646	-3.00
TU 1227	1620	-5.98	2055	2315	1.20
2008	2254	3.55			
8 0830	0505	-4.20	23 0943	1124	0.52
1105	0830	2.72	1305	1732	-2.45
WE 1336	1728	-5.46	2146	2358	0.86
2115					
9 0948	0615	-4.35	24 1055	1229	0.39
1224	0948	2.67	1402	1832	-2.07
1457	1843	-5.03	2245		
2225					
10 1106	0730	-4.72	25 1156	1342	0.50
1345	1106	2.90	1530	1942	-1.92
FR 1624	2001	-4.80	2343		
2335					
11 1217	0839	-5.28	26 1238	1447	0.88
1501	1217	3.40	1700	2046	-2.02
SA 1748	2115	-4.79			
12 1320	0943	-5.93	27 1313	1539	1.45
1610	1320	4.01	1812	2138	-2.32
SU 1903	2221	-4.89			
13 1417	1040	-6.50	28 1345	1624	2.13
1710	1417	4.53	1908	2223	-2.75
MO 2008	2319	-4.96			
14 1509	1131	-6.88	29 1420	1704	2.86
1802	1509	4.84	1956	2304	-3.25
TU 2104					
15 1557	1219	-6.99	30 1456	1745	3.57
1851	1557	4.87	2040	2345	-3.79
2155					
16 1535	1825	4.19	31 1535	1825	4.19
2123			0805	1156	-6.34
			1535	1825	4.19
			2123		

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0330	0617	3.76	16 0509	0745	2.82
0854	1239	-6.90	1017	1359	-5.17
SA 1617	1908	4.63	1737	2022	3.27
2206			2317		
2 0415	0109	-4.71	17 0539	0815	2.43
0703	0415	4.18	1045	1428	-4.50
SU 0944	1326	-7.18	1808	2048	2.64
1702	1953	4.85	2336		
2251					
3 0502	0156	-4.98	18 0608	0841	2.04
0753	0502	4.38	1110	1453	-3.84
MO 1035	1415	-7.14	1837	2111	2.07
1751	2041	4.80	2350		
2339					
4 0556	0245	-5.07	19 0639	0907	1.67
0846	0556	4.32	1134	1518	-3.23
TU 1130	1508	-6.75	1906	2132	1.59
1845	2343	4.51			
5 0656	0341	-5.02	20 0714	0936	1.32
0945	0656	4.04	1200	1545	-2.67
WE 1232	1607	-6.09	1937	2156	1.18
1944	2231	4.04			
6 0806	0444	-4.88	21 0758	1014	1.01
1055	0806	3.65	1231	1620	-2.15
TH 1342	1715	-5.32	2015	2227	0.85
2050	2337	3.53			
7 0924	0554	-4.80	22 0858	1106	0.75
1214	0924	3.38	1319	1711	-1.71
FR 1503	1832	-4.66	2110	2312	0.60
2204					
8 1046	0711	-4.93	23 1015	1223	0.66
1338	1046	3.44	1439	1827	-1.45
SA 1632	1956	-4.33	2223		
2322					
9 1202	0827	-5.31	24 1126	1350	0.93
1458	1202	3.83	1622	1954	-1.54
SU 1758	2114	-4.34	2330		
10 1309	0934	-5.83	25 1218	1458	1.54
1607	1309	4.36	1745	2100	-1.96
MO 1910	2220	-4.52			
11 1407	1033	-6.29	26 1302	1550	2.34
1705	1407	4.77	1844	2152	-2.61
TU 2011	2316	-4.67			
12 1458	1125	-6.55	27 1344	1634	3.21
1756	1458	4.95	1932	2236	-3.39
WE 2101					
13 1544	1211	-6.54	28 1425	1717	4.05
1840	1544	4.83	2015	2319	-4.19
TH 2145					
14 1625	1251	-6.27	29 1507	1800	4.76
1918	1625	4.46	2059		
FR 2222					
15 1702	1327	-5.79	30 1551	1844	5.24
1953	1702	3.91	2142		
SA 2253					
16 1638	1309	-7.42	31 1638	1930	5.42
1930	1638	5.42	2227		
2227					

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 1032	1359	-7.24	16 0526	0808	2.41
1727	2017	5.26	1051	1416	-3.43
TU 2313			1748	2019	1.98
			2252		
2 0537	0834	5.27	17 0550	0830	2.11
1129	1453	-6.69	1114	1437	-2.92
WE 1820	2110	4.80	1810	2035	1.61
			2301		
3 0637	0934	4.85	18 0618	0857	1.82
1231	1553	-5.84	1140	1501	-2.45
TH 1920	2207	4.13	1832	2055	1.30
			2314		
4 0746	1043	4.30	19 0655	0930	1.53
1343	1702	-4.92	1213	1532	-1.99
FR 2029	2314	3.42	1903	2120	1.02
			2333		
5 0905	1202	3.87	20 0745	1016	1.24
1506	1824	-4.21	1300	1617	-1.56
SA 2148			1949	2201	0.75
6 1029	1330	3.81	21 0857	1129	1.06
1636	1950	-3.94	1416	1733	-1.27
SU 2312			2106	2311	0.57
7 0425	0812	-5.23	22 1018	1300	1.22
1146	1449	4.11	1557	1911	-1.36
MO 1758	2108	-4.09	2235		
8 1253	1557	4.53	23 0246	0725	-3.06
1905	2213	-4.39	1129	1419	1.80
TU 2341			1719	2028	-1.91
			2341		
9 0640	1021	-5.95	24 0426	0837	-3.86
1350	1652	4.80	1223	1517	2.62
WE 2000	2305	-4.62	1817	2124	-2.75
10 0734	1112	-6.09	25 0544	0935	-4.83
1440	1739	4.82	1311	1606	3.54
TH 2044	2349	-4.69	1905	2212	-3.72
11 0820	1155	-5.99	26 0647	1027	-5.80
1522	1818	4.58	1357	1651	4.40
FR 2121			1949	2257	-4.72
12 0900	1231	-5.65	27 0745	1115	-6.59
1600	1852	4.12	1442	1735	5.09
SA 2150			2032	2342	-5.61
13 0933	1304	-5.15	28 0839	1203	-7.08
1633	1920	3.56	1527	1820	5.51
SU 2214			2116		
14 1002	1331	-4.57	29 0932	1253	-7.18
1702	1944	2.97	1615	1906	5.60
MO 2230			2200		
15 1028	1355	-3.99	30 0428	0728	6.02
1727	2002	2.44	1028	1345	-6.87
TU 2243			1704	1955	5.33
			2246		

# AUSTRALIA, TORRES STRAIT – HAMMOND ROCK

LAT 10° 30' S LONG 142° 13' E

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

POSITIVE (+) DIRECTION 080° NEGATIVE (-) DIRECTION 260°

# 2015

Time Zone -1000

## OCTOBER

## NOVEMBER

## DECEMBER

Slack Time		Maximum Time Rate		Slack Time		Maximum Time Rate	
<b>1</b>	0522	0823	5.81	<b>16</b>	0514	0805	2.63
TH	1126	1439	-6.19	FR	1105	1408	-2.59
	1758	2046	4.75		1720	1955	1.86
	2335				2224		
<b>2</b>	0622	0923	5.31	<b>17</b>	0542	0833	2.40
FR	1230	1540	-5.28	SA	1136	1434	-2.19
	1858	2145	3.96		1742	2016	1.63
					2243		
<b>3</b>	0730	1031	4.68	<b>18</b>	0617	0908	2.16
SA	1343	1650	-4.37	SU	1215	1507	-1.80
	2009	2251	3.15		1810	2045	1.41
					2311		
<b>4</b>	0845	1150	4.17	<b>19</b>	0704	0956	1.91
SU	1505	1812	-3.73	MO	1307	1555	-1.44
	2131				1853	2129	1.17
					2351		
<b>5</b>	0947	1252	3.57	<b>20</b>	0807	1102	1.74
MO	1630	1938	-3.58	TU	1421	1706	-1.21
	2258				2004	2238	0.98
<b>6</b>	1052	1407	3.07	<b>21</b>	0924	1226	1.85
TU	1746	2054	-3.82	WE	1547	1838	-1.35
					2139		
<b>7</b>	1157	1512	2.57	<b>22</b>	1039	1345	2.33
WE	1847	2155	-4.17	TH	1700	1958	-1.96
					2300		
<b>8</b>	1257	1622	2.07	<b>23</b>	1143	1446	3.08
TH	1936	2244	-4.43	FR	1756	2058	-2.89
<b>9</b>	1357	1712	1.57	<b>24</b>	1257	1550	1.47
FR	2015	2324	-4.53	SA	1844	2149	-3.95
<b>10</b>	1457	1807	1.07	<b>25</b>	1957	2250	0.97
SA	2047	2358	-4.48	SU	2507	2800	-3.91
<b>11</b>	1557	1907	0.57	<b>26</b>	2607	2900	-3.41
SU	2113			MO	3107	3400	-3.31
<b>12</b>	1657	2007	0.07	<b>27</b>	3207	3500	-2.81
MO	2131			TH	3707	4000	-2.71
<b>13</b>	1757	2107	-0.43	<b>28</b>	3807	4100	-2.21
TU	2146			FR	4307	4600	-2.11
<b>14</b>	1857	2207	-0.93	<b>29</b>	4407	4700	-1.61
WE	2159			SU	4907	5200	-1.51
<b>15</b>	1957	2307	-1.43	<b>30</b>	5007	5300	-1.01
TH	2210			MO	5507	5800	-0.91
<b>16</b>	2057	2407	-1.93	<b>31</b>	5607	5900	-0.41
FR	2220			SA	6107	6400	-0.31

Slack Time		Maximum Time Rate		Slack Time		Maximum Time Rate	
<b>1</b>	0009	0342	-5.82	<b>16</b>	0546	0859	3.18
SU	0708	1019	5.04	MO	1234	1457	-1.55
	1345	1636	-3.62		1725	2032	2.27
	1940	2228	3.11		2322		
<b>2</b>	0109	0447	-5.10	<b>17</b>	0632	0946	3.01
MO	0817	1132	4.48	TU	1330	1546	-1.30
	1502	1754	-3.08		1809	2121	2.09
	2059	2343	2.51				
<b>3</b>	0219	0602	-4.51	<b>18</b>	0728	1047	2.88
TU	0931	1250	4.16	WE	1436	1652	-1.18
	1621	1915	-2.94		1914	2228	1.95
	2223						
<b>4</b>	0310	0705	-3.92	<b>19</b>	0835	1159	2.92
WE	0440	0720	-4.18	TH	1546	1811	-1.35
	1044	1403	4.09		2041	2354	2.04
	1730	2028	-3.14				
	2338						
<b>5</b>	0420	0821	-3.33	<b>20</b>	0947	1313	3.23
TH	0459	0831	-4.08	FR	1650	1929	-1.92
	1149	1505	4.12		2210		
	1826	2127	-3.45				
<b>6</b>	0530	0931	-2.74	<b>21</b>	0417	0744	-3.46
FR	0608	0931	-4.07	SA	1057	1418	3.77
	1245	1557	4.11		1744	2033	-2.79
	1911	2214	-3.71		2325		
<b>7</b>	0640	1041	-3.15	<b>22</b>	0538	0853	-3.95
SU	0712	1045	3.17	SU	1200	1516	4.41
	1405	1721	-2.47		1832	2130	-3.82
	2028	2352	-3.87				
<b>8</b>	0750	1151	-2.56	<b>23</b>	0647	0953	-4.47
MO	0823	1137	-3.62	MO	1255	1608	5.01
	1441	1741	3.53		1918	2222	-4.82
	2040	2350	-3.92				
<b>9</b>	0860	1261	-3.01	<b>24</b>	0124	0437	5.41
MO	0833	1137	-3.62	TU	0750	1049	-4.86
	1441	1741	3.53		1347	1658	5.47
	2040	2350	-3.92		2003	2312	-5.68
<b>10</b>	0970	1371	-2.51	<b>25</b>	0216	0531	6.18
TU	0908	1206	-3.34	WE	0848	1142	-5.03
	1507	1805	3.26		1437	1745	5.71
	2100				2048		
<b>11</b>	1080	1481	-1.99	<b>26</b>	0308	0624	6.65
WE	0326	0630	3.61	TH	0945	1234	-4.94
	0940	1233	-3.04		1526	1833	5.68
	1530	1826	3.02		2134		
	2117						
<b>12</b>	1190	1591	-1.49	<b>27</b>	0400	0716	6.78
TH	0349	0655	3.58	FR	1043	1326	-4.58
	1010	1258	-2.73		1615	1922	5.39
	1550	1845	2.83		2221		
	2134						
<b>13</b>	1300	1701	-0.99	<b>28</b>	0451	0810	6.59
FR	0413	0721	3.53	SA	1141	1419	-4.02
	1041	1322	-2.43		1705	2012	4.87
	1609	1906	2.67		2310		
	2153						
<b>14</b>	1410	1811	-0.49	<b>29</b>	0545	0905	6.13
SU	0440	0748	3.45	SU	1243	1516	-3.36
	1114	1348	-2.14		1758	2104	4.20
	1630	1929	2.54				
	2215						
<b>15</b>	1520	1921	-0.01	<b>30</b>	0639	1003	5.51
SU	0510	0820	3.34	MO	1348	1617	-2.70
	1150	1419	-1.84		1855	2202	3.50
	1654	1957	2.42				
	2245						

Slack Time		Maximum Time Rate		Slack Time		Maximum Time Rate	
<b>1</b>	0100	0422	-4.43	<b>16</b>	0602	0935	4.49
TU	0737	1106	4.88	WE	1340	1537	-1.33
	1459	1724	-2.20		1737	2120	3.58
	2000	2309	2.89				
<b>2</b>	0206	0527	-3.62	<b>17</b>	0654	1030	4.34
WE	0838	1214	4.35	TH	1438	1636	-1.27
	1609	1836	-1.95		1837	2223	3.43
	2115						
<b>3</b>	0322	0637	-2.98	<b>18</b>	0753	1134	4.23
TH	0941	1321	4.00	FR	1541	1745	-1.39
	1714	1946	-1.97		1955	2340	3.41
	2229						
<b>4</b>	0444	0747	-2.58	<b>19</b>	0900	1245	4.28
FR	1042	1422	3.81	SA	1642	1901	-1.80
	1807	2046	-2.16		2123		
	2332						
<b>5</b>	0558	0851	-2.37	<b>20</b>	1010	1354	4.52
SA	1137	1515	3.71	SU	1739	2013	-2.51
	1850	2135	-2.40		2247		
<b>6</b>	0700	0945	-2.27	<b>21</b>	1119	1458	4.91
SU	1224	1557	3.65	MO	1830	2116	-3.39
	1925	2215	-2.64				
<b>7</b>	0810	1028	-2.20	<b>22</b>	1223	1556	5.34
MO	1302	1632	3.59	TU	1919	2214	-4.28
	1954	2247	-2.85				
<b>8</b>	0920	1136	-2.05	<b>23</b>	1320	1648	5.70
WE	1402	1728	3.53	TH	1413	1739	5.90
	2041	2341	-3.24		2053	2356	-5.54

# AUSTRALIA, TORRES STRAIT – GOODS ISLAND

LAT 10° 34' S LONG 142° 09' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

## FEBRUARY

## MARCH

## APRIL

Time m		Time m		Time m		Time m		Time m									
<b>1</b>	0049 2.55	<b>16</b>	0017 2.47	<b>1</b>	0424 2.60	<b>16</b>	0208 2.57	<b>1</b>	0131 2.81	<b>16</b>	0033 2.83	<b>1</b>	0302 2.75	<b>16</b>	0156 2.84		
	0539 1.74		0449 1.91		0640 2.50		0544 2.39		0549 2.31		0503 2.28		0701 2.43		0642 2.15		
TH	1228 3.76	FR	1144 3.71	SU	1245 3.59	MO	1202 3.76	SU	1146 3.55	MO	1056 3.61	WE	1137 2.71	TH	1236 2.85		
	2010 1.33		1907 1.47		2105 1.28		1932 1.15		1916 1.17		1820 1.00		1946 1.53		1914 1.19		
<b>2</b>	0220 2.43	<b>17</b>	0127 2.39	<b>2</b>	1305 3.42	<b>17</b>	0439 2.59	<b>2</b>	0259 2.71	<b>17</b>	0131 2.75	<b>2</b>	0423 2.72	<b>17</b>	0254 2.83		
	0617 2.07		0515 2.13		2322 1.32		0633 2.54		0629 2.48		0548 2.35		0750 2.47		0739 2.07		
FR	1302 3.68	SA	1210 3.72	MO		TU	1242 3.68	MO	1208 3.35	TU	1135 3.53	TH	1022 2.53	FR	1435 2.67		
	2114 1.22		1934 1.35				2017 1.17		1954 1.33		1859 1.05		2027 1.76		2001 1.46		
<b>3</b>	0450 2.49	<b>18</b>	1240 3.70	<b>3</b>	1306 3.25	<b>18</b>	0558 2.72	<b>3</b>	0510 2.73	<b>18</b>	0245 2.69	<b>3</b>	0512 2.73	<b>18</b>	0355 2.87		
	0656 2.39		2011 1.25				0733 2.66		0710 2.63		0640 2.42		1323 2.27		0849 1.94		
SA	1336 3.57	SU		TU		WE	1342 3.54	TU	1214 3.15	WE	1223 3.37	FR	1654 2.47	SA	1639 2.65		
	2241 1.15						2109 1.24		2046 1.50		1944 1.17		2346 1.87		2054 1.75		
<b>4</b>	1417 3.46	<b>19</b>	1315 3.67	<b>4</b>	0028 1.32	<b>19</b>	1539 3.43	<b>4</b>	1200 2.97	<b>19</b>	0442 2.74	<b>4</b>	0546 2.76	<b>19</b>	0448 2.93		
	2356 1.10		2057 1.18		0756 3.00		2357 1.29		2346 1.58		0736 2.44		1335 2.05		1216 1.59		
SU		MO		WE	0911 2.98	TH		WE		TH	1407 3.16	SA	1802 2.53	SU	1810 2.76		
				○	1559 3.11	●					2034 1.34	○		●	2328 1.99		
<b>5</b>	1511 3.34	<b>20</b>	1408 3.62	<b>5</b>	0118 1.33	<b>20</b>	0718 2.99	<b>5</b>	1005 2.81	<b>20</b>	0535 2.84	<b>5</b>	0042 1.94	<b>20</b>	0528 3.02		
			2308 1.14		0831 3.08		0950 2.72		1405 2.74		0837 2.41		0616 2.80		1325 1.26		
MO		TU		TH	1439 2.91	FR	1658 3.37	TH	1619 2.82	FR	1552 3.06	SU	1354 1.83	SU	1916 2.87		
○		●			1714 3.03					●	2133 1.54						
<b>6</b>	0053 1.06	<b>21</b>	1539 3.56	<b>6</b>	0157 1.35	<b>21</b>	0058 1.31	<b>6</b>	0044 1.61	<b>21</b>	0615 2.95	<b>6</b>	0125 2.01	<b>21</b>	0027 2.11		
	0822 3.04				0854 3.13		0749 3.13		0729 2.91		1205 2.26		0605 3.10				
TU	1009 3.00	WE		FR	1458 2.73	SA	1307 2.51	FR	1417 2.55	SA	1732 3.05	MO	1421 1.61	TU	1419 0.98		
	1611 3.24				1819 2.98		1819 3.33	○	1741 2.79		1951 2.71		2017 2.98				
<b>7</b>	0139 1.05	<b>22</b>	0029 1.08	<b>7</b>	0229 1.38	<b>22</b>	0144 1.37	<b>7</b>	0127 1.65	<b>22</b>	0024 1.65	<b>7</b>	0158 2.08	<b>22</b>	0113 2.19		
	0858 3.15		0814 3.03		0909 3.18		0817 3.28		0748 2.95		0649 3.07		0710 2.90		0646 3.17		
WE	1205 2.97	TH	1000 2.94	SA	1521 2.52	SU	1443 2.17	SA	1432 2.35	SA	1432 2.35	SU	1333 1.91	TU	1451 1.41	WE	1505 0.76
	1711 3.15		1651 3.52		1916 2.93		1935 3.29		1841 2.80		1854 3.09		2039 2.80		2112 3.06		
<b>8</b>	0217 1.06	<b>23</b>	0123 1.04	<b>8</b>	0255 1.44	<b>23</b>	0218 1.47	<b>8</b>	0202 1.70	<b>23</b>	0113 1.76	<b>8</b>	0224 2.14	<b>23</b>	0156 2.21		
	0926 3.22		0841 3.16		0921 3.25		0841 3.45		0803 3.01		0718 3.20		0732 2.96		0730 3.22		
TH	1344 2.87	FR	1239 2.83	SU	1549 2.31	MO	1540 1.79	SU	1455 2.13	SU	1455 2.13	MO	1436 1.54	WE	1521 1.23	TH	1543 0.62
	1810 3.07		1800 3.46		2009 2.90		2041 3.26		1935 2.83		1958 3.14		2120 2.88		2159 3.13		
<b>9</b>	0248 1.09	<b>24</b>	0206 1.04	<b>9</b>	0317 1.51	<b>24</b>	0243 1.58	<b>9</b>	0230 1.76	<b>24</b>	0151 1.86	<b>9</b>	0245 2.18	<b>24</b>	0240 2.19		
	0947 3.28		0906 3.30		0933 3.34		0908 3.63		0819 3.08		0747 3.35		0750 3.03		0817 3.22		
FR	1528 2.70	SA	1405 2.60	MO	1620 2.09	TU	1625 1.46	MO	1522 1.90	TU	1524 1.22	TH	1550 1.08	FR	1616 0.57		
	1907 2.98		1911 3.37		2058 2.87		2143 3.22		2023 2.86		2058 3.18		2155 2.95		2240 3.16		
<b>10</b>	0314 1.13	<b>25</b>	0236 1.10	<b>10</b>	0333 1.61	<b>25</b>	0316 1.70	<b>10</b>	0254 1.84	<b>25</b>	0222 1.95	<b>10</b>	0303 2.21	<b>25</b>	0324 2.16		
	1003 3.34		0927 3.46		0945 3.45		0939 3.78		0836 3.17		0820 3.48		0810 3.13		0902 3.18		
SA	1604 2.51	SU	1542 2.28	TU	1650 1.87	WE	1706 1.20	TU	1552 1.68	WE	1606 0.97	FR	1615 0.96	SA	1644 0.58		
	2002 2.90		2024 3.28		2143 2.86		2239 3.15		2107 2.90		2152 3.20		2227 3.00		2317 3.15		
<b>11</b>	0336 1.19	<b>26</b>	0302 1.19	<b>11</b>	0342 1.71	<b>26</b>	0352 1.82	<b>11</b>	0311 1.92	<b>26</b>	0258 2.01	<b>11</b>	0323 2.22	<b>26</b>	0406 2.13		
	1016 3.42		0949 3.64		1000 3.55		1012 3.85		0853 3.26		0858 3.56		0839 3.23		0945 3.07		
SU	1639 2.32	MO	1638 1.94	WE	1718 1.68	TH	1740 1.05	WE	1621 1.49	TH	1642 0.81	SA	1635 0.87	SU	1708 0.66		
	2053 2.82		2131 3.17		2227 2.83	●	2335 3.06		2147 2.94		2242 3.20		2258 3.01	●	2353 3.10		
<b>12</b>	0353 1.29	<b>27</b>	0333 1.33	<b>12</b>	0351 1.82	<b>27</b>	0431 1.97	<b>12</b>	0324 1.99	<b>27</b>	0338 2.05	<b>12</b>	0348 2.22	<b>27</b>	0448 2.12		
	1030 3.50		1016 3.81		1018 3.64		1047 3.83		0910 3.37		0936 3.57		0914 3.30		1025 2.91		
MO	1714 2.13	TU	1724 1.63	TH	1743 1.52	FR	1812 1.00	TH	1647 1.32	FR	1712 0.76	SU	1651 0.80	MO	1734 0.81		
	2142 2.74	●	2236 3.04	●	2311 2.79				2225 2.96	●	2328 3.16	●	2334 2.99				
<b>13</b>	0402 1.41	<b>28</b>	0408 1.51	<b>13</b>	0409 1.95	<b>28</b>	0031 2.94	<b>13</b>	0338 2.06	<b>28</b>	0418 2.11	<b>13</b>	0421 2.21	<b>28</b>	0030 3.02		
	1044 3.58		1047 3.92		1037 3.72		0510 2.14		0929 3.47		1013 3.50		0953 3.32		0530 2.13		
TU	1747 1.95	WE	1806 1.39	FR	1803 1.38	SA	1118 3.72	FR	1708 1.19	FR	1708 1.19	SA	1739 0.80	MO	1717 0.78	TU	1101 2.71
●	2230 2.65		2339 2.89		2359 2.73		1843 1.05		2303 2.96				1802 1.00				
<b>14</b>	0409 1.56	<b>29</b>	0445 1.73	<b>14</b>	0435 2.08	<b>29</b>	0014 3.07	<b>14</b>	0359 2.13	<b>29</b>	0014 3.07	<b>14</b>	0015 2.95	<b>29</b>	0108 2.93		
	1103 3.64		1120 3.94		1101 3.77		0458 2.18		0954 3.56		0458 2.18		0501 2.21		0613 2.13		
WE	1818 1.77	TH	1845 1.24	SA	1824 1.27	SU	1048 3.35	SA	1726 1.09	SA	1726 1.09	SU	1048 3.35	TU	1035 3.25	WE	1139 2.49
	2320 2.56					●	2346 2.91	●	2346 2.91	●	1807 0.91		1751 0.83		1830 1.24		
<b>15</b>	0425 1.72	<b>30</b>	0043 2.74	<b>15</b>	0055 2.64	<b>30</b>	0102 2.95	<b>15</b>	0428 2.20	<b>30</b>	0102 2.95	<b>15</b>	0103 2.89	<b>30</b>	0149 2.84		
	1122 3.69		0523 1.99		0506 2.24		0538 2.27		1023 3.62		0538 2.27		0549 2.19		0700 2.12		
TH	1845 1.62	FR	1151 3.87	SU	1129 3.78	MO	1119 3.15	SU	1748 1.02	SU	1748 1.02	MO	1119 3.15	WE	1124 3.08	TH	1247 2.27
			1925 1.18		1853 1.19		1837 1.08				1837 1.08		1831 0.97		1857 1.49		
<b>31</b>	0159 2.62	<b>31</b>	0602 2.25					<b>31</b>	0154 2.84	<b>31</b>	0154 2.84						
			SA 1221 3.75						0619 2.36		0619 2.36						
			2006 1.21						TU 1143 2.93		TU 1143 2.93						
									1910 1.30		1910 1.30						

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre





# AUSTRALIA, TORRES STRAIT – GOODS ISLAND

LAT 10° 34' S LONG 142° 09' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0057 2.02 0603 2.73 TU 1330 1.03 1951 2.73	<b>16</b>	0248 1.60 0741 2.40 WE 1421 1.46 1956 2.65	<b>1</b>	0210 1.23 0742 2.78 TH 1328 1.64 1914 2.98	<b>16</b>	0239 1.13 0846 2.62 FR 1414 2.02 1909 2.74	<b>1</b>	0321 0.50 0943 3.10 SU 1408 2.23 1942 3.20	<b>16</b>	0305 0.81 1002 3.01 MO 1427 2.50 1846 2.98	<b>1</b>	0332 0.60 1017 3.31 TU 1443 2.48 2001 3.10	<b>16</b>	0259 0.85 1010 3.21 WE 1431 2.69 1906 3.16
<b>2</b>	0222 1.69 0722 2.75 WE 1406 1.13 2016 2.87	<b>17</b>	0314 1.39 0830 2.46 TH 1446 1.54 2016 2.72	<b>2</b>	0301 0.90 0841 2.87 FR 1358 1.74 1947 3.11	<b>17</b>	0309 0.97 0925 2.72 SA 1437 2.07 1928 2.79	<b>2</b>	0357 0.44 1024 3.16 MO 1455 2.20 2031 3.15	<b>17</b>	0330 0.75 1024 3.07 TU 1453 2.47 1926 3.02	<b>2</b>	0358 0.65 1045 3.36 WE 1540 2.38 2054 2.96	<b>17</b>	0314 0.84 1024 3.29 TH 1512 2.55 2003 3.11
<b>3</b>	0321 1.32 0827 2.78 TH 1431 1.24 2042 3.04	<b>18</b>	0343 1.19 0914 2.53 FR 1507 1.63 2036 2.79	<b>3</b>	0345 0.64 0935 2.93 SA 1433 1.81 2027 3.21	<b>18</b>	0338 0.85 0957 2.80 SU 1458 2.11 1947 2.86	<b>3</b>	0425 0.45 1101 3.18 TU 1543 2.17 2119 3.04	<b>18</b>	0348 0.72 1042 3.11 WE 1520 2.41 2012 3.03	<b>3</b>	0421 0.75 1111 3.39 TH 1635 2.27 2145 2.78	<b>18</b>	0330 0.85 1039 3.39 FR 1600 2.37 2107 3.01
<b>4</b>	0406 0.98 0926 2.79 FR 1458 1.36 2113 3.19	<b>19</b>	0411 1.02 0952 2.58 SA 1524 1.71 2055 2.86	<b>4</b>	0423 0.47 1024 2.96 SU 1514 1.85 2108 3.23	<b>19</b>	0404 0.76 1025 2.85 MO 1517 2.14 2013 2.94	<b>4</b>	0450 0.54 1136 3.16 WE 1630 2.14 2205 2.87	<b>19</b>	0400 0.70 1103 3.15 TH 1554 2.33 2102 2.99	<b>4</b>	0443 0.90 1139 3.40 FR 1729 2.17 2235 2.59	<b>19</b>	0357 0.91 1103 3.50 SA 1656 2.16 2216 2.86
<b>5</b>	0447 0.71 1022 2.77 SA 1534 1.48 2148 3.28	<b>20</b>	0437 0.88 1028 2.62 SU 1539 1.80 2114 2.94	<b>5</b>	0456 0.40 1110 2.95 MO 1557 1.90 2150 3.18	<b>20</b>	0425 0.70 1052 2.88 TU 1538 2.16 2045 3.00	<b>5</b>	0515 0.69 1211 3.11 TH 1717 2.13 2249 2.66	<b>20</b>	0422 0.72 1130 3.19 FR 1638 2.22 2159 2.88	<b>5</b>	0507 1.10 1207 3.38 SA 1827 2.06 2331 2.39	<b>20</b>	0431 1.05 1134 3.59 SU 1755 1.93 2328 2.68
<b>6</b>	0523 0.53 1117 2.71 SU 1615 1.61 2225 3.29	<b>21</b>	0501 0.78 1103 2.62 MO 1556 1.87 2136 3.01	<b>6</b>	0524 0.44 1156 2.89 TU 1641 1.96 2231 3.04	<b>21</b>	0439 0.66 1121 2.88 WE 1604 2.16 2123 3.02	<b>6</b>	0542 0.90 1248 3.04 FR 1806 2.12 2336 2.42	<b>21</b>	0454 0.82 1205 3.22 SA 1729 2.09 2304 2.69	<b>6</b>	0529 1.34 1235 3.34 SU 1945 1.93	<b>21</b>	0509 1.29 1209 3.64 MO 1859 1.68
<b>7</b>	0555 0.47 1212 2.62 MO 1656 1.76 2301 3.21	<b>22</b>	0520 0.72 1139 2.59 TU 1618 1.95 2202 3.06	<b>7</b>	0551 0.55 1243 2.79 WE 1724 2.03 2309 2.85	<b>22</b>	0457 0.65 1155 2.85 TH 1640 2.15 2206 2.98	<b>7</b>	0610 1.15 1328 2.96 SA 1904 2.09	<b>22</b>	0532 1.01 1245 3.23 SU 1827 1.93	<b>7</b>	0043 2.20 0548 1.61 MO 1304 3.29 2112 1.77	<b>22</b>	0046 2.51 0550 1.60 TU 1245 3.64 2013 1.45
<b>8</b>	0626 0.52 1312 2.51 TU 1739 1.91 2336 3.05	<b>23</b>	0536 0.68 1222 2.53 WE 1649 2.02 2234 3.07	<b>8</b>	0619 0.74 1335 2.69 TH 1809 2.11 2344 2.61	<b>23</b>	0525 0.69 1237 2.81 FR 1726 2.13 2254 2.85	<b>8</b>	0053 2.20 0638 1.44 SU 1410 2.89 2310 1.91	<b>23</b>	0032 2.48 0614 1.29 MO 1328 3.23 1934 1.73	<b>8</b>	0224 2.10 0602 1.89 TU 1335 3.23 2221 1.57	<b>23</b>	0216 2.40 0632 1.95 WE 1325 3.62 2126 1.24
<b>9</b>	0658 0.65 1434 2.41 WE 1821 2.06	<b>24</b>	0602 0.68 1314 2.45 TH 1729 2.08 2311 3.01	<b>9</b>	0652 0.98 1441 2.60 FR 1857 2.17	<b>24</b>	0602 0.82 1326 2.77 SA 1819 2.08 2357 2.65	<b>9</b>	0253 2.07 0703 1.73 MO 1455 2.85 2353 1.69	<b>24</b>	0208 2.35 0657 1.63 TU 1413 3.24 2209 1.45	<b>9</b>	0439 2.17 0601 2.16 WE 1406 3.19 2315 1.39	<b>24</b>	0446 2.48 0717 2.29 TH 1407 3.57 2244 1.08
<b>10</b>	0006 2.85 0734 0.83 TH 1630 2.41 1907 2.19	<b>25</b>	0636 0.73 1423 2.40 FR 1820 2.13 2356 2.89	<b>10</b>	0032 2.37 0725 1.25 SA 1601 2.57	<b>25</b>	0644 1.02 1419 2.77 SU 1917 1.98	<b>10</b>	0457 2.13 0725 2.02 TU 1540 2.83	<b>25</b>	0439 2.39 0744 1.99 WE 1458 3.26 2319 1.17	<b>10</b>	1441 3.15 TH	<b>25</b>	1455 3.52 FR
<b>11</b>	0028 2.63 0817 1.05 FR 1738 2.47 *	<b>26</b>	0717 0.85 1616 2.43 SA 1916 2.13	<b>11</b>	0803 1.52 1651 2.58 SU	<b>26</b>	0153 2.46 0729 1.30 MO 1514 2.80 2023 1.82	<b>11</b>	0023 1.48 1620 2.83 WE	<b>26</b>	1544 3.28 TH	<b>11</b>	0001 1.23 1519 3.13 FR	<b>26</b>	0002 0.96 0727 2.90 SA 0909 2.82 1549 3.46
<b>12</b>	1124 1.18 1824 2.51 SA	<b>27</b>	0110 2.70 0803 1.03 SU 1710 2.52 2016 2.08	<b>12</b>	0101 1.91 0453 2.18 MO 0852 1.77 1724 2.60	<b>27</b>	0344 2.41 0818 1.61 TU 1604 2.87 2341 1.48	<b>12</b>	0054 1.29 0950 2.53 TH 1212 2.43 1651 2.84	<b>27</b>	0026 0.94 0714 2.80 FR 0950 2.57 1630 3.30	<b>12</b>	0045 1.10 1600 3.13 SA	<b>27</b>	0106 0.88 0819 3.08 SU 1057 2.92 1646 3.38
<b>13</b>	0140 2.20 0424 2.32 SU 1228 1.24 1857 2.54	<b>28</b>	0319 2.59 0855 1.24 MO 1748 2.62 2346 1.92	<b>13</b>	0123 1.70 0605 2.26 TU 1226 1.81 1752 2.63	<b>28</b>	0547 2.55 0916 1.91 WE 1647 2.96	<b>13</b>	0128 1.12 0939 2.68 FR 1259 2.48 1715 2.86	<b>28</b>	0125 0.76 0815 2.99 SA 1149 2.66 1718 3.30	<b>13</b>	0125 1.01 1015 3.00 SU 1234 2.90 1643 3.14	<b>28</b>	0157 0.84 0900 3.20 MO 1223 2.88 1744 3.29
<b>14</b>	0203 2.00 0546 2.32 MO 1315 1.30 1921 2.57	<b>29</b>	0508 2.59 1200 1.41 TU 1820 2.73	<b>14</b>	0144 1.50 0704 2.37 WE 1311 1.88 1819 2.66	<b>29</b>	0049 1.16 0656 2.71 TH 1148 2.11 1726 3.06	<b>14</b>	0202 0.99 0916 2.82 SA 1333 2.51 1739 2.89	<b>29</b>	0215 0.65 0905 3.13 SU 1250 2.64 1810 3.27	<b>14</b>	0202 0.94 0942 3.07 MO 1315 2.86 1727 3.16	<b>29</b>	0239 0.84 0935 3.29 TU 1335 2.78 1844 3.19
<b>15</b>	0224 1.80 0647 2.35 TU 1351 1.37 1939 2.60	<b>30</b>	0104 1.58 0637 2.69 WE 1250 1.53 1847 2.85	<b>15</b>	0210 1.31 0758 2.50 TH 1346 1.96 1846 2.70	<b>30</b>	0148 0.88 0758 2.87 FR 1238 2.20 1807 3.14	<b>15</b>	0234 0.88 0939 2.93 SU 1401 2.51 1810 2.93	<b>30</b>	0258 0.59 0945 3.24 MO 1347 2.58 1905 3.20	<b>15</b>	0234 0.89 0954 3.14 TU 1353 2.79 1814 3.17	<b>30</b>	0312 0.88 1001 3.37 WE 1523 2.63 1944 3.07
				<b>31</b>	0238 0.65 0855 3.00 SA 1323 2.24 1852 3.19						<b>31</b>	0338 0.94 1023 3.45 TH 1623 2.45 2041 2.94			

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols



New Moon



First Quarter



Full Moon



Last Quarter

Bureau of Meteorology

National Tidal Centre

\* Denotes extra Tides



# AUSTRALIA, TORRES STRAIT – BOOBY ISLAND

LAT 10° 36' S LONG 141° 55' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0241 3.27 FR 1514 2.66 2025 1.91	<b>16</b>	0219 3.47 SA 1512 2.90 2026 1.74	<b>1</b>	0247 3.20 MO 1752 2.72 2116 2.38	<b>16</b>	0305 3.39 TU 1826 3.03 2206 2.39	<b>1</b>	0220 3.21 WE 1834 2.84 2140 2.52	<b>16</b>	0327 3.19 TH 1916 3.08 2248 2.46	<b>1</b>	0340 3.26 SA 1925 3.05 2310 2.37	<b>16</b>	0005 2.30 SU 1257 0.92 1945 3.07
<b>2</b>	0321 3.24 SA 1641 2.73 2116 2.11	<b>17</b>	0305 3.48 SU 1639 3.00 2124 2.01	<b>2</b>	0323 3.20 TU 1846 2.90 2228 2.48	<b>17</b>	0352 3.35 WE 1923 3.16 2308 2.45	<b>2</b>	0309 3.22 TH 1920 2.98 2244 2.53	<b>17</b>	0424 3.13 FR 1955 3.13 2351 2.41	<b>2</b>	0449 3.29 SU 1949 3.14	<b>17</b>	0115 2.15 MO 1332 1.00 2003 3.09
<b>3</b>	0359 3.24 SU 1752 2.86 2234 2.26	<b>18</b>	0349 3.49 MO 1808 3.14 2227 2.21	<b>3</b>	0401 3.21 WE 1932 3.04 2336 2.51	<b>18</b>	0441 3.30 TH 2009 3.24	<b>3</b>	0401 3.24 FR 1957 3.08 2343 2.48	<b>18</b>	0518 3.07 SA 2025 3.15	<b>3</b>	0017 2.21 MO 1321 0.59 2012 3.23	<b>18</b>	0201 1.99 TU 1403 1.11 2024 3.11
<b>4</b>	0432 3.25 MO 1215 1.39 1847 3.00 2351 2.35	<b>19</b>	0430 3.50 TU 1915 3.28 2332 2.33	<b>4</b>	0439 3.23 TH 2013 3.14	<b>19</b>	0007 2.44 FR 1333 0.53 2046 3.27	<b>4</b>	0456 3.26 SA 2028 3.15	<b>19</b>	0059 2.32 SU 1355 0.73 2050 3.15	<b>4</b>	0135 1.99 TU 1400 0.67 2039 3.33	<b>19</b>	0243 1.82 WE 1428 1.23 2046 3.16
<b>5</b>	0503 3.27 TU 1933 3.12	<b>20</b>	0513 3.49 WE 2009 3.37	<b>5</b>	0026 2.50 FR 1329 0.65 2048 3.22	<b>20</b>	0106 2.38 SA 1414 0.58 2119 3.28	<b>5</b>	0039 2.38 SU 1343 0.50 2054 3.22	<b>20</b>	0206 2.19 MO 1429 0.82 2112 3.18	<b>5</b>	0241 1.73 WE 1438 0.81 2109 3.44	<b>20</b>	0321 1.65 TH 1450 1.36 2109 3.20
<b>6</b>	0031 2.40 WE 1325 1.06 2015 3.21	<b>21</b>	0031 2.39 TH 1354 0.55 2055 3.42	<b>6</b>	0110 2.45 SA 1406 0.59 2119 3.27	<b>21</b>	0205 2.30 SU 1451 0.66 2147 3.30	<b>6</b>	0136 2.24 MO 1421 0.52 2119 3.30	<b>21</b>	0259 2.05 TU 1458 0.94 2136 3.21	<b>6</b>	0338 1.44 TH 1517 1.01 2144 3.54	<b>21</b>	0359 1.48 FR 1513 1.51 2131 3.25
<b>7</b>	0106 2.43 TH 1400 0.94 2053 3.28	<b>22</b>	0125 2.39 FR 1436 0.56 2135 3.44	<b>7</b>	0153 2.38 SU 1441 0.57 2147 3.33	<b>22</b>	0305 2.20 MO 1526 0.76 2216 3.31	<b>7</b>	0237 2.06 TU 1459 0.60 2148 3.39	<b>22</b>	0346 1.89 WE 1524 1.08 2200 3.25	<b>7</b>	0432 1.16 FR 1600 1.26 2221 3.59	<b>22</b>	0435 1.31 SA 1539 1.66 2153 3.29
<b>8</b>	0139 2.44 FR 1433 0.35 2128 3.34	<b>23</b>	0217 2.36 SA 1516 0.61 2212 3.45	<b>8</b>	0241 2.29 MO 1517 0.58 2218 3.39	<b>23</b>	0402 2.08 TU 1558 0.90 2244 3.33	<b>8</b>	0340 1.84 WE 1538 0.74 2221 3.48	<b>23</b>	0429 1.72 TH 1547 1.24 2224 3.29	<b>8</b>	0523 0.92 SA 1627 1.55 2258 3.58	<b>23</b>	0508 1.15 SU 1609 1.83 2218 3.32
<b>9</b>	0213 2.44 SA 1505 0.79 2203 3.38	<b>24</b>	0313 2.32 SU 1555 0.70 2247 3.45	<b>9</b>	0336 2.15 TU 1557 0.65 2252 3.45	<b>24</b>	0452 1.94 WE 1627 1.07 2311 3.34	<b>9</b>	0439 1.58 TH 1621 0.96 2257 3.55	<b>24</b>	0508 1.54 FR 1612 1.42 2247 3.31	<b>9</b>	0614 0.75 SU 1739 1.84 2336 3.51	<b>24</b>	0541 1.01 MO 1643 2.01 2246 3.33
<b>10</b>	0251 2.41 SU 1432 3.38 1538 0.74 2239 3.42	<b>25</b>	0411 2.25 MO 1632 0.83 2321 3.43	<b>10</b>	0437 1.97 WE 1640 0.79 2330 3.50	<b>25</b>	0539 1.79 TH 1654 1.27 2339 3.33	<b>10</b>	0536 1.30 FR 1707 1.24 2334 3.57	<b>25</b>	0546 1.36 SA 1640 1.63 2310 3.32	<b>10</b>	0704 0.65 MO 1835 2.10	<b>25</b>	0617 0.90 TU 1728 2.20 2319 3.33
<b>11</b>	0337 2.37 MO 1616 0.74 2317 3.45	<b>26</b>	0507 2.17 TU 1706 1.00 2355 3.40	<b>11</b>	0538 1.75 TH 1727 1.02	<b>26</b>	0622 1.62 FR 1723 1.50	<b>11</b>	0630 1.05 SA 1756 1.57	<b>26</b>	0622 1.19 SU 1714 1.85 2336 3.32	<b>11</b>	0017 3.40 TU 1506 2.76 1934 2.30	<b>26</b>	0658 0.82 WE 1831 2.36
<b>12</b>	0432 2.30 TU 1700 0.80	<b>27</b>	0600 2.07 WE 1739 1.21	<b>12</b>	0009 3.52 FR 1230 2.75 1816 1.33	<b>27</b>	0006 3.32 SA 1300 2.36 1756 1.75	<b>12</b>	0013 3.54 SU 1354 2.67 1850 1.90	<b>27</b>	0659 1.04 MO 1756 2.09	<b>12</b>	0106 3.25 WE 1700 2.84 2033 2.41	<b>27</b>	0002 3.30 TH 1528 2.73 1942 2.45
<b>13</b>	0000 3.47 WE 1050 3.14 1748 0.94	<b>28</b>	0028 3.36 TH 1215 2.51 1812 1.45	<b>13</b>	0051 3.51 SA 1354 2.70 1909 1.66	<b>28</b>	0033 3.29 SU 1417 2.37 1838 2.01	<b>13</b>	0053 3.46 MO 1521 2.70 1948 2.18	<b>28</b>	0006 3.31 TU 1500 2.52 1855 2.30	<b>13</b>	0211 3.12 TH 1809 2.96 2132 2.44	<b>28</b>	0058 3.25 FR 1708 2.84 2046 2.43
<b>14</b>	0045 3.47 TH 1209 2.98 1838 1.16	<b>29</b>	0102 3.31 FR 1330 2.42 1848 1.70	<b>14</b>	0135 3.48 SU 1520 2.73 2005 1.98	<b>29</b>	0104 3.26 MO 1612 2.47 1932 2.25	<b>14</b>	0138 3.37 TU 1716 2.82 2048 2.37	<b>29</b>	0043 3.28 WE 1705 2.65 2004 2.45	<b>14</b>	0320 3.03 FR 1852 3.03 2235 2.40	<b>29</b>	0213 3.21 SA 1754 2.97 2145 2.32
<b>15</b>	0131 3.47 FR 1345 2.89 1931 1.44	<b>30</b>	0136 3.27 SA 1455 2.43 1929 1.96	<b>15</b>	0219 3.43 MO 1706 2.85 2104 2.23	<b>30</b>	0139 3.23 TU 1737 2.66 2035 2.43	<b>15</b>	0230 3.27 WE 1828 2.98 2147 2.46	<b>30</b>	0131 3.26 TH 1809 2.81 2109 2.51	<b>15</b>	0421 2.98 SA 1923 3.06	<b>30</b>	0337 3.23 SU 1823 3.08 2249 2.14
<b>31</b>	0211 3.23 SU 1639 2.54 2017 2.20							<b>31</b>	0232 3.25 FR 1852 2.95 2209 2.47			<b>31</b>	0451 3.28 MO 1850 3.19		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon    ◐ First Quarter    ○ Full Moon    ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre



# AUSTRALIA, GULF OF CARPENTARIA – WEIPA (HUMBUG POINT)

LAT 12° 40' S LONG 141° 52' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

JANUARY		FEBRUARY		MARCH		APRIL					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0151 2.09	<b>16</b>	0123 2.07	<b>1</b>	1446 2.97	<b>16</b>	1336 2.98	<b>1</b>	0459 2.33	<b>16</b>	0319 2.28
TH	0559 1.93	FR	0454 2.00	SU	2258 1.21	MO	2216 1.25	WE	1007 2.05	TH	0905 1.86
	1433 2.90	FR	1259 2.84					WE	1458 2.46	TH	1422 2.46
	2129 1.33		2101 1.55						2229 1.42		2154 1.24
<b>2</b>	0416 2.11	<b>17</b>	1332 2.93	<b>2</b>	1530 2.98	<b>17</b>	0524 2.36	<b>2</b>	0506 2.34	<b>17</b>	0343 2.35
FR	0619 2.07	SA	2158 1.36	MO	2344 1.16	TU	0712 2.33	TH	1052 1.94	FR	1010 1.64
	1433 2.95						1436 3.05	TH	1551 2.46	FR	1526 2.46
	2228 1.16						2311 1.13		2309 1.45		2247 1.31
<b>3</b>	0542 2.18	<b>18</b>	0512 2.22	<b>3</b>	1613 2.97	<b>18</b>	0553 2.41	<b>3</b>	0505 2.36	<b>18</b>	0413 2.44
SA	0650 2.18	SU	0609 2.21	TU		WE	0826 2.31	FR	1133 1.82	SA	1111 1.39
	1507 2.97	SU	1410 3.01			WE	1533 3.10	FR	1640 2.45	SA	1628 2.45
	2320 1.03		2251 1.18						2342 1.50		2334 1.40
<b>4</b>	1542 2.99	<b>19</b>	0553 2.30	<b>4</b>	0025 1.14	<b>19</b>	0000 1.05	<b>4</b>	0508 2.39	<b>19</b>	0447 2.53
SU		MO	0719 2.28	WE	0706 2.43	TH	0621 2.46	WE	1209 1.68	SU	1207 1.14
		MO	1452 3.08	○	0931 2.37	●	0956 2.27	SA	1724 2.44	●	1732 2.43
			2339 1.03		○	●	1629 3.13		○		
<b>5</b>	0005 0.95	<b>20</b>	1540 3.14	<b>5</b>	0101 1.16	<b>20</b>	0045 1.02	<b>5</b>	0010 1.55	<b>20</b>	0016 1.51
MO	1619 2.99	●		TH	0723 2.46	FR	0643 2.53	SU	0525 2.45	MO	0524 2.60
○				TH	1048 2.35	FR	1158 2.14	SU	1245 1.54	MO	1301 0.92
					1735 2.94		1724 3.12		1805 2.42		1833 2.38
<b>6</b>	0047 0.91	<b>21</b>	0025 0.91	<b>6</b>	0133 1.20	<b>21</b>	0126 1.06	<b>6</b>	0035 1.61	<b>21</b>	0054 1.62
TU	0741 2.35	WE	0711 2.42	FR	0737 2.49	SA	0707 2.61	MO	0549 2.51	TU	0602 2.65
	0931 2.32	WE	0933 2.34	FR	1233 2.29	SA	1307 1.96	MO	1320 1.40	TU	1351 0.77
	1658 2.97		1630 3.18		1811 2.89		1818 3.05		1842 2.39		1932 2.32
<b>7</b>	0125 0.91	<b>22</b>	0109 0.84	<b>7</b>	0202 1.27	<b>22</b>	0206 1.17	<b>7</b>	0058 1.67	<b>22</b>	0129 1.74
WE	0808 2.38	TH	0748 2.47	SA	0752 2.53	SU	0741 2.71	TU	0616 2.56	WE	0641 2.67
	1025 2.33	TH	1055 2.33	SA	1333 2.22	SU	1408 1.78	TU	1355 1.27	WE	1439 0.69
	1736 2.94		1723 3.18		1844 2.83		1912 2.93		1917 2.35		2027 2.24
<b>8</b>	0201 0.96	<b>23</b>	0151 0.84	<b>8</b>	0227 1.37	<b>23</b>	0244 1.34	<b>8</b>	0121 1.74	<b>23</b>	0156 1.85
TH	0836 2.41	FR	0822 2.53	SU	0813 2.57	MO	0819 2.79	WE	0643 2.59	TH	0719 2.64
	1122 2.34	FR	1254 2.26	SU	1424 2.14	MO	1507 1.63	WE	1432 1.17	TH	1526 0.71
	1814 2.89		1817 3.13		1916 2.74		2006 2.75		1953 2.30		2126 2.16
<b>9</b>	0233 1.04	<b>24</b>	0232 0.91	<b>9</b>	0248 1.48	<b>24</b>	0319 1.56	<b>9</b>	0139 1.82	<b>24</b>	0201 1.94
FR	0905 2.43	SA	0851 2.60	MO	0841 2.63	TU	0900 2.85	TH	0710 2.60	FR	0759 2.57
	1236 2.35	SA	1410 2.14	MO	1514 2.06	TU	1606 1.52	TH	1512 1.11	FR	1612 0.79
	1850 2.82		1910 3.03		1950 2.63		2102 2.55		2034 2.24		2239 2.09
<b>10</b>	0301 1.15	<b>25</b>	0312 1.07	<b>10</b>	0306 1.61	<b>25</b>	0349 1.79	<b>10</b>	0149 1.91	<b>25</b>	0142 2.00
SA	0929 2.46	SU	0824 2.68	TU	0912 2.67	WE	0944 2.88	FR	0739 2.60	SA	0845 2.47
	1429 2.33	SU	1517 2.01	TU	1605 1.97	WE	1705 1.45	FR	1556 1.07	SA	1658 0.91
	1926 2.71		2005 2.86		2029 2.50		2208 2.35		2128 2.17		
<b>11</b>	0326 1.28	<b>26</b>	0350 1.28	<b>11</b>	0321 1.76	<b>26</b>	0359 2.01	<b>11</b>	0149 1.98	<b>26</b>	0938 2.35
SU	0955 2.50	MO	1005 2.76	WE	0945 2.71	TH	1032 2.87	SA	0813 2.58	●	1746 1.04
	1547 2.28	MO	1625 1.87	WE	1659 1.87	TH	1807 1.43	SA	1643 1.06	●	
	2002 2.58		2102 2.64		2119 2.35		2102 2.64		2248 2.12		
<b>12</b>	0347 1.42	<b>27</b>	0425 1.54	<b>12</b>	0329 1.90	<b>27</b>	0015 2.20	<b>12</b>	0203 2.04	<b>27</b>	0350 2.12
MO	1030 2.55	TU	1052 2.83	TH	1021 2.75	FR	0327 2.15	SU	0900 2.55	MO	0652 2.04
	1658 2.19	TU	1733 1.74	TH	1756 1.76	FR	1128 2.85	SU	1735 1.08	MO	1045 2.23
	2043 2.43	●	2209 2.41	●	2230 2.22	●	1913 1.41	●	2115 2.31	●	1834 1.16
<b>13</b>	0406 1.57	<b>28</b>	0450 1.79	<b>13</b>	0326 2.03	<b>28</b>	1231 2.82	<b>13</b>	0232 1.99	<b>28</b>	0344 2.15
TU	1110 2.61	WE	1143 2.89	FR	1059 2.80	SA	2024 1.39	FR	0909 2.71	SA	0809 1.94
	1802 2.07	WE	1842 1.61	FR	1856 1.64			FR	1712 1.45	SA	1211 2.13
	2138 2.27		2347 2.21						2226 2.21		1926 1.27
<b>14</b>	0424 1.72	<b>29</b>	0447 2.00	<b>14</b>	0058 2.15	<b>29</b>	0324 2.13	<b>14</b>	0230 2.08	<b>29</b>	0349 2.18
WE	1149 2.68	TH	1232 2.93	SA	0324 2.13	SA	1143 2.86	SA	0950 2.72	SU	0907 1.81
	1902 1.91	TH	1951 1.49	SA	1143 2.86	SA	2002 1.52	SA	1808 1.40	SU	1328 2.08
	2259 2.13							●			2020 1.36
<b>15</b>	0440 1.87	<b>30</b>	0300 2.16	<b>15</b>	1236 2.92	<b>30</b>	0438 2.15	<b>15</b>	1042 2.74	<b>30</b>	0357 2.20
TH	1226 2.76	FR	0438 2.15	SU	2112 1.38	FR	1318 2.95	SU	1911 1.35	MO	0955 1.67
	2001 1.73	FR	2102 1.38				2102 1.38			MO	1435 2.06
										MO	2051 1.19
											2110 1.44
<b>31</b>	1402 2.96							<b>31</b>	0453 2.31		
SA	2205 1.28							TU	0915 2.15		
									1401 2.47		
									2140 1.39		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, GULF OF CARPENTARIA – WEIPA (HUMBUG POINT)

LAT 12° 40' S LONG 141° 52' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0354 2.22	<b>16</b>	0302 2.30	<b>1</b>	0317 2.24	<b>16</b>	0340 2.36	<b>1</b>	0410 2.37	<b>16</b>	0015 1.66
	1037 1.53		1109 1.14		1126 0.86		1151 0.44		1242 0.38		0528 2.20
FR	1537 2.06	SA	1530 2.05	MO	1736 1.84	TU	1826 1.86	WE	1819 1.80	TH	1901 1.85
	2153 1.51		2156 1.46		2129 1.66		2128 1.73		2101 1.72	●	2147 1.75
<b>2</b>	0352 2.26	<b>17</b>	0336 2.38	<b>2</b>	0345 2.30	<b>17</b>	0419 2.37	<b>2</b>	0339 2.31	<b>17</b>	0450 2.28
	1116 1.37		1107 0.90		1205 0.71		1238 0.34		1222 0.43		1304 0.39
SA	1636 2.07	SU	1647 2.05	TU	1824 1.89	WE	1910 1.89	TH	1859 1.85	FR	1923 1.88
	2230 1.58		2243 1.58		2216 1.71	●	2221 1.75	○	2158 1.73		2256 1.72
<b>3</b>	0408 2.31	<b>18</b>	0411 2.45	<b>3</b>	0414 2.34	<b>18</b>	0459 2.37	<b>3</b>	0421 2.35	<b>18</b>	0534 2.25
	1152 1.22		1201 0.68		1244 0.58		1323 0.30		1304 0.34		1342 0.43
SU	1729 2.09	MO	1800 2.06	WE	1908 1.93	TH	1946 1.91	FR	1935 1.88	SA	1947 1.89
	2302 1.63	●	2323 1.67	○	2258 1.73		2312 1.75		2300 1.71		
<b>4</b>	0432 2.37	<b>19</b>	0447 2.49	<b>4</b>	0447 2.38	<b>19</b>	0541 2.34	<b>4</b>	0508 2.38	<b>19</b>	0036 1.67
	1228 1.06		1251 0.51		1323 0.48		1404 0.33		1346 0.30		0614 2.22
MO	1816 2.11	TU	1859 2.07	TH	1949 1.95	FR	2020 1.92	SA	2008 1.91	SU	1416 0.52
○	2333 1.68		2358 1.74		2339 1.75						2008 1.91
<b>5</b>	0458 2.43	<b>20</b>	0525 2.51	<b>5</b>	0523 2.40	<b>20</b>	0003 1.74	<b>5</b>	0016 1.67	<b>20</b>	0140 1.61
	1303 0.92		1338 0.42		1402 0.42		0623 2.29		0557 2.38		0653 2.16
TU	1859 2.11	WE	1949 2.06	FR	2027 1.96	SA	1443 0.41	SU	1426 0.32	MO	1446 0.64
							2054 1.91		2038 1.93		2029 1.92
<b>6</b>	0003 1.72	<b>21</b>	0027 1.78	<b>6</b>	0019 1.75	<b>21</b>	0104 1.73	<b>6</b>	0135 1.60	<b>21</b>	0235 1.55
	0527 2.46		0602 2.49		0602 2.40		0706 2.22		0649 2.34		0731 2.07
WE	1339 0.80	TH	1423 0.40	SA	1442 0.41	SU	1519 0.53	MO	1507 0.40	TU	1511 0.78
	1939 2.11		2036 2.04		2105 1.95		2128 1.90		2109 1.97		2054 1.95
<b>7</b>	0032 1.76	<b>22</b>	0045 1.81	<b>7</b>	0106 1.74	<b>22</b>	0246 1.71	<b>7</b>	0244 1.51	<b>22</b>	0330 1.49
	0555 2.48		0642 2.44		0648 2.37		0750 2.11		0744 2.25		0810 1.95
TH	1417 0.72	FR	1505 0.47	SU	1524 0.45	MO	1550 0.68	TU	1547 0.54	WE	1531 0.93
	2019 2.09		2122 2.00		2145 1.95		2205 1.89		2149 2.01		2124 1.97
<b>8</b>	0054 1.81	<b>23</b>	0102 1.84	<b>8</b>	0222 1.74	<b>23</b>	0411 1.67	<b>8</b>	0354 1.40	<b>23</b>	0427 1.42
	0626 2.48		0724 2.36		0741 2.30		0836 1.99		0843 2.11		0852 1.82
FR	1456 0.68	SA	1546 0.58	MO	1606 0.54	TU	1618 0.84	WE	1626 0.74	TH	1545 1.08
	2100 2.06		2216 1.97		2235 1.97		2246 1.90		2236 2.06		2157 2.00
<b>9</b>	0111 1.85	<b>24</b>	0128 1.87	<b>9</b>	0351 1.69	<b>24</b>	0529 1.60	<b>9</b>	0507 1.27	<b>24</b>	0525 1.32
	0701 2.47		0811 2.25		0842 2.20		0925 1.84		0950 1.93		0944 1.67
SA	1538 0.68	SU	1625 0.73	TU	1649 0.68	WE	1641 0.99	TH	1703 0.98	FR	1557 1.23
	2152 2.03		2324 1.95		2332 2.00	●	2334 1.92	○	2327 2.11	●	2232 2.03
<b>10</b>	0134 1.89	<b>25</b>	0455 1.87	<b>10</b>	0519 1.59	<b>25</b>	0636 1.49	<b>10</b>	0619 1.11	<b>25</b>	0624 1.21
	0744 2.42		0904 2.12		0953 2.06		1025 1.70		1111 1.75		1058 1.55
SU	1623 0.73	MO	1702 0.88	WE	1734 0.86	TH	1701 1.14	FR	1729 1.22	SA	1605 1.37
	2301 2.02			●							2310 2.06
<b>11</b>	0219 1.92	<b>26</b>	0048 1.96	<b>11</b>	0026 2.06	<b>26</b>	0016 1.96	<b>11</b>	0019 2.16	<b>26</b>	0721 1.08
	0841 2.35		0626 1.80		0639 1.43		0735 1.34		0730 0.94		1339 1.51
MO	1710 0.80	TU	1003 1.98	TH	1119 1.91	FR	1150 1.58	SA	1303 1.63	SU	1604 1.49
○		●	1736 1.03		1819 1.06		1724 1.28		1738 1.42		2351 2.11
<b>12</b>	0017 2.04	<b>27</b>	0201 1.99	<b>12</b>	0112 2.13	<b>27</b>	0050 2.01	<b>12</b>	0108 2.21	<b>27</b>	0822 0.94
	0505 1.92		0737 1.67		0750 1.22		0829 1.18		0839 0.78		
TU	0954 2.26	WE	1115 1.85	FR	1254 1.80	SA	1346 1.54	SU	1530 1.63	MO	
	1803 0.91		1809 1.17		1857 1.26		1752 1.41		1800 1.57		
<b>13</b>	0116 2.09	<b>28</b>	0226 2.03	<b>13</b>	0151 2.20	<b>28</b>	0122 2.08	<b>13</b>	0152 2.24	<b>28</b>	0036 2.16
	0647 1.80		0834 1.52		0856 1.00		0920 1.01		0945 0.63		0922 0.80
WE	1125 2.16	TH	1246 1.76	SA	1425 1.75	SU	1533 1.59	MO	1703 1.70	TU	
	1900 1.04		1841 1.29		1921 1.44		1827 1.52		1841 1.67		
<b>14</b>	0159 2.15	<b>29</b>	0230 2.07	<b>14</b>	0227 2.26	<b>29</b>	0154 2.14	<b>14</b>	0235 2.27	<b>29</b>	0129 2.21
	0803 1.61		0923 1.36		0959 0.79		1008 0.85		1044 0.51		1018 0.66
TH	1300 2.09	FR	1410 1.73	SU	1611 1.76	MO	1647 1.66	TU	1800 1.76	WE	1737 1.76
	2002 1.18		1916 1.41		1953 1.58		1911 1.62		1939 1.74		1911 1.75
<b>15</b>	0232 2.22	<b>30</b>	0234 2.12	<b>15</b>	0302 2.32	<b>30</b>	0226 2.21	<b>15</b>	0319 2.28	<b>30</b>	0224 2.27
	0907 1.38		1006 1.20		1058 0.59		1054 0.69		1136 0.43		1110 0.54
FR	1418 2.06	SA	1528 1.74	MO	1730 1.81	TU	1737 1.74	WE		TH	
	2102 1.32		1956 1.51		2037 1.68		2005 1.69				
		<b>31</b>	0252 2.18							<b>31</b>	0317 2.33
			1047 1.03								1158 0.44
			SU 1639 1.79								FR 1832 1.87
			2041 1.59								○ 2135 1.73

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre





# AUSTRALIA, GULF OF CARPENTARIA – KARUMBA

LAT 17° 30' S LONG 140° 50' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0810 1.46 1710 3.41	<b>16</b>	0754 1.51 1805 3.43
TH		FR	
<b>2</b>	0806 1.27 1748 3.82	<b>17</b>	0801 1.41 1807 3.68
FR		SA	
<b>3</b>	0816 1.11 1833 4.12	<b>18</b>	0817 1.29 1836 3.91
SA		SU	
<b>4</b>	0839 1.00 1918 4.30	<b>19</b>	0844 1.18 1912 4.11
SU		MO	
<b>5</b>	0908 0.94 2001 4.37	<b>20</b>	0916 1.08 1953 4.25
MO ○		TU ●	
<b>6</b>	0938 0.92 2040 4.35	<b>21</b>	0950 1.03 2036 4.31
TU		WE	
<b>7</b>	1009 0.95 2114 4.28	<b>22</b>	1023 1.04 2119 4.27
WE		TH	
<b>8</b>	1037 1.04 2143 4.19	<b>23</b>	1053 1.15 2159 4.14
TH		FR	
<b>9</b>	1101 1.18 2204 4.07	<b>24</b>	1119 1.36 2231 3.90
FR		SA	
<b>10</b>	1112 1.37 2222 3.94	<b>25</b>	1135 1.67 2247 3.59
SA		SU	
<b>11</b>	1043 1.58 2236 3.79	<b>26</b>	1101 2.05 2237 3.28
SU		MO	
<b>12</b>	0951 1.72 2242 3.63	<b>27</b>	0648 2.12 2147 3.05
MO		TU ●	
<b>13</b>	0829 1.76 2230 3.45	<b>28</b>	0639 1.89 1512 3.07
TU ●		WE	
<b>14</b>	0756 1.68 2154 3.33	<b>29</b>	0649 1.64 1528 3.49
WE		TH	
<b>15</b>	0754 1.60 2121 3.27	<b>30</b>	0659 1.42 1613 3.85
TH		FR	
		<b>31</b>	0716 1.24 1705 4.10
		SA	

## FEBRUARY

Time	m	Time	m
<b>1</b>	0745 1.13 1800 4.24	<b>16</b>	0736 1.25 1739 3.96
SU		MO	
<b>2</b>	0819 1.07 1852 4.29	<b>17</b>	0815 1.15 1836 4.06
MO		TU	
<b>3</b>	0853 1.07 1939 4.27	<b>18</b>	0853 1.11 1929 4.08
TU		WE	
<b>4</b>	0924 1.11 2018 4.18	<b>19</b>	0928 1.16 2019 4.01
WE ○		TH ●	
<b>5</b>	0951 1.20 2048 4.07	<b>20</b>	1002 1.31 2105 3.84
TH		FR	
<b>6</b>	1013 1.35 2111 3.93	<b>21</b>	1034 1.56 2143 3.57
FR		SA	
<b>7</b>	1024 1.55 2128 3.79	<b>22</b>	1104 1.90 2208 3.24
SA		SU	
<b>8</b>	1007 1.78 2143 3.63	<b>23</b>	1133 2.31 1413 2.37 1509 2.37 2154 2.90
SU		MO	
<b>9</b>	0850 1.97 2154 3.44	<b>24</b>	0452 2.27 1211 2.75 1649 2.60 1959 2.68
MO		TU	
<b>10</b>	0640 2.00 2142 3.25	<b>25</b>	0501 2.05 1246 3.17
TU		WE	
<b>11</b>	0631 1.91 2041 3.14	<b>26</b>	0513 1.81 1328 3.54
WE		TH ●	
<b>12</b>	0635 1.82 1526 3.15	<b>27</b>	0516 1.58 1416 3.80
TH ●		FR	
<b>13</b>	0640 1.70 1533 3.40	<b>28</b>	0529 1.39 1509 3.96
FR		SA	
<b>14</b>	0647 1.56 1601 3.63	<b>14</b>	0647 1.56 1601 3.63
SA		SA	
<b>15</b>	0704 1.39 1644 3.82	<b>15</b>	0704 1.39 1644 3.82
SU		SU	

## MARCH

Time	m	Time	m
<b>1</b>	0611 1.28 1605 4.02	<b>16</b>	0529 1.29 1511 3.78
SU		MO	
<b>2</b>	0659 1.23 1703 4.00	<b>17</b>	0627 1.20 1612 3.76
MO		TU	
<b>3</b>	0743 1.24 1759 3.92	<b>18</b>	0722 1.20 1718 3.66
TU		WE	
<b>4</b>	0822 1.31 1846 3.80	<b>19</b>	0810 1.29 1823 3.50
WE		TH	
<b>5</b>	0853 1.43 1922 3.65	<b>20</b>	0855 1.49 1921 3.26
TH		FR ●	
<b>6</b>	0914 1.60 1947 3.49	<b>21</b>	0942 1.78 2010 2.96
FR ○		SA	
<b>7</b>	0922 1.82 2006 3.33	<b>22</b>	1041 2.13 2038 2.62
SA		SU	
<b>8</b>	0857 2.04 2027 3.15	<b>23</b>	0243 2.30 0806 2.61 1610 2.24 2004 2.31
SU		MO	
<b>9</b>	0457 2.14 2043 2.95	<b>24</b>	0252 2.15 0950 2.97
MO		TU	
<b>10</b>	0446 2.10 1308 2.69 1559 2.58 2013 2.75	<b>25</b>	0005 1.92 1051 3.32
TU		WE	
<b>11</b>	0451 2.05 1253 2.93 1717 2.68 1839 2.69	<b>26</b>	0045 1.65 1140 3.60
WE		TH	
<b>12</b>	0458 1.97 1250 3.18	<b>27</b>	0136 1.44 1227 3.78
TH		FR ●	
<b>13</b>	0449 1.84 1306 3.42	<b>28</b>	0235 1.31 1314 3.85
FR		SA	
<b>14</b>	0402 1.64 1336 3.61	<b>29</b>	0340 1.26 1403 3.82
SA ●		SU	
<b>15</b>	0435 1.44 1418 3.73	<b>30</b>	0446 1.26 1453 3.72
SU		MO	
		<b>31</b>	0547 1.32 1542 3.55
		TU	

## APRIL

Time	m	Time	m
<b>1</b>	0639 1.43 1625 3.36	<b>16</b>	0626 1.32 1553 3.09
WE		TH	
<b>2</b>	0718 1.60 1702 3.16	<b>17</b>	0729 1.59 1642 2.75
TH		FR	
<b>3</b>	0732 1.81 1732 2.96	<b>18</b>	0008 2.02 0438 2.05 0844 1.92 1720 2.40
FR		SA	
<b>4</b>	0354 1.94 1800 2.76	<b>19</b>	0016 1.94 0640 2.39 2232 1.84
SA ○		SU ●	
<b>5</b>	0241 1.97 1155 2.32 1250 2.32 1824 2.56	<b>20</b>	0752 2.76 2213 1.58
SU		MO	
<b>6</b>	0227 1.96 1025 2.54 1549 2.32 1822 2.36	<b>21</b>	0848 3.10 2230 1.34
MO		TU	
<b>7</b>	0233 1.96 1028 2.78 2340 1.92	<b>22</b>	0936 3.38 2306 1.15
TU		WE	
<b>8</b>	1035 3.01 2344 1.73	<b>23</b>	1021 3.58 2351 1.03
WE		TH	
<b>9</b>	1052 3.23	<b>24</b>	1105 3.68
TH		FR	
<b>10</b>	0014 1.54 1119 3.43	<b>25</b>	0042 0.99 1148 3.70
FR		SA	
<b>11</b>	0100 1.36 1153 3.58	<b>26</b>	0136 1.00 1231 3.63
SA		SU ●	
<b>12</b>	0156 1.21 1234 3.67	<b>27</b>	0234 1.07 1310 3.50
SU ●		MO	
<b>13</b>	0300 1.12 1320 3.66	<b>28</b>	0332 1.20 1347 3.32
MO		TU	
<b>14</b>	0410 1.09 1409 3.56	<b>29</b>	0417 1.37 1417 3.10
TU		WE	
<b>15</b>	0520 1.16 1501 3.36	<b>30</b>	0203 1.51 1443 2.87
WE		TH	

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◐ First Quarter

○ Full Moon

◑ Last Quarter

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# AUSTRALIA, GULF OF CARPENTARIA – KARUMBA

LAT 17° 30' S LONG 140° 50' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST					
Time	m	Time	m	Time	m	Time	m				
<b>1</b>	0052 1.58 FR 2345 1.56	<b>16</b>	0457 2.01 SA 1355 2.15 2232 1.41	<b>1</b>	0747 2.52 2145 1.11	<b>16</b>	0700 3.08 2116 0.63	<b>1</b>	0825 3.20 2224 0.54	<b>16</b>	0847 3.09 2208 0.84
<b>2</b>	1513 2.41 SA 2350 1.54	<b>17</b>	0610 2.42 SU 2131 1.26	<b>2</b>	0801 2.71 TU 2137 1.04	<b>17</b>	0751 3.28 2143 0.54	<b>2</b>	0756 2.98 2159 0.67	<b>17</b>	0829 3.34 2209 0.46
<b>3</b>	0848 2.37 SU 2339 1.54	<b>18</b>	0708 2.80 MO 2129 1.06	<b>3</b>	0819 2.89 WE 2148 0.94	<b>18</b>	0838 3.37 TH 2216 0.49	<b>3</b>	0836 3.11 FR 2232 0.59	<b>18</b>	0914 3.27 SA 2241 0.52
<b>4</b>	0853 2.58 MO 2234 1.51	<b>19</b>	0757 3.11 TU 2146 0.88	<b>4</b>	0845 3.05 TH 2217 0.83	<b>19</b>	0922 3.38 FR 2251 0.49	<b>4</b>	0920 3.20 SA 2310 0.53	<b>19</b>	0953 3.17 SU 2310 0.64
<b>5</b>	0902 2.79 TU 2209 1.40	<b>20</b>	0842 3.34 WE 2213 0.75	<b>5</b>	0919 3.19 FR 2255 0.73	<b>20</b>	1004 3.33 SA 2329 0.54	<b>5</b>	1005 3.23 SU 2348 0.55	<b>20</b>	1024 3.04 MO 2332 0.83
<b>6</b>	0914 2.99 WE 2221 1.26	<b>21</b>	0926 3.47 TH 2251 0.68	<b>6</b>	0959 3.28 SA 2340 0.65	<b>21</b>	1041 3.25 SU 1041 3.25	<b>6</b>	1048 3.18 MO 1048 3.18	<b>21</b>	1047 2.90 TU 2313 1.05
<b>7</b>	0935 3.18 TH 2249 1.11	<b>22</b>	1007 3.51 FR 2334 0.67	<b>7</b>	1042 3.32 SU 1042 3.32	<b>22</b>	0005 0.65 MO 1113 3.13	<b>7</b>	0028 0.66 TU 1126 3.03	<b>22</b>	1104 2.73 WE 2126 1.20
<b>8</b>	1006 3.34 FR 2331 0.98	<b>23</b>	1049 3.49 SA 1049 3.49	<b>8</b>	0028 0.63 MO 1122 3.28	<b>23</b>	0033 0.81 TU 1137 2.98 2354 1.02	<b>8</b>	0113 0.88 WE 1154 2.79	<b>23</b>	1116 2.55 TH 1949 1.20
<b>9</b>	1043 3.45 SA 1043 3.45	<b>24</b>	0019 0.72 SU 1127 3.41	<b>9</b>	0121 0.70 TU 1158 3.15	<b>24</b>	1155 2.82 WE 2238 1.14	<b>9</b>	0220 1.20 TH 1209 2.49 2005 1.41	<b>24</b>	1117 2.37 FR 1937 1.10
<b>10</b>	0025 0.88 SU 1124 3.50	<b>25</b>	0104 0.82 MO 1201 3.28	<b>10</b>	0219 0.88 WE 1228 2.94	<b>25</b>	1207 2.64 TH 2121 1.13	<b>10</b>	0135 1.63 FR 0512 1.55 1206 2.18 1946 1.21	<b>25</b>	0353 2.00 SA 0605 1.98 1041 2.21 1944 1.01
<b>11</b>	0125 0.84 MO 1206 3.48	<b>26</b>	0140 0.97 TU 1230 3.13	<b>11</b>	0333 1.16 TH 1252 2.65 2120 1.40	<b>26</b>	1209 2.45 FR 2102 1.05	<b>11</b>	0250 2.06 SA 0728 1.85 1101 1.95 1955 0.99	<b>26</b>	0405 2.25 SU 0744 2.14 0925 2.15 1949 0.95
<b>12</b>	0229 0.88 TU 1247 3.36	<b>27</b>	0047 1.15 WE 1252 2.94 2351 1.26	<b>12</b>	0230 1.57 FR 0511 1.52 1301 2.33 2107 1.24	<b>27</b>	1143 2.27 SA 2103 0.99	<b>12</b>	0350 2.48 SU 2001 0.80	<b>27</b>	0436 2.47 MO 1958 0.87
<b>13</b>	0339 1.00 WE 1328 3.15	<b>28</b>	1307 2.73 TH 2226 1.25	<b>13</b>	0402 1.99 SA 0738 1.89 1216 2.05 2112 1.07	<b>28</b>	1035 2.18 SU 2059 0.95	<b>13</b>	0448 2.84 MO 2012 0.64	<b>28</b>	0515 2.67 TU 2015 0.79
<b>14</b>	0452 1.24 TH 1404 2.85 2236 1.63	<b>29</b>	1314 2.52 FR 2216 1.19	<b>14</b>	0507 2.41 SU 2056 0.92	<b>29</b>	0630 2.44 MO 2100 0.90	<b>14</b>	0547 3.10 TU 2035 0.53	<b>29</b>	0559 2.84 WE 2041 0.70
<b>15</b>	0239 1.64 FR 0607 1.56 1430 2.49 2227 1.52	<b>30</b>	1245 2.32 SA 2218 1.16	<b>15</b>	0605 2.79 MO 2056 0.76	<b>30</b>	0652 2.64 TU 2110 0.84	<b>15</b>	0645 3.27 WE 2105 0.47	<b>30</b>	0647 2.99 TH 2114 0.61
		<b>31</b>	0742 2.30 SU 2159 1.14							<b>31</b>	0736 3.12 FR 2149 0.55

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# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0940 2.75 2331 1.39	<b>16</b>	0815 2.37 1606 1.56 2353 2.05	<b>1</b>	0440 1.70 2136 2.72	<b>16</b>	1127 1.57 2219 2.99	<b>1</b>	1113 0.94 2237 3.86	<b>16</b>	1106 1.11 2220 3.83	<b>1</b>	1140 0.92 2254 4.04	<b>16</b>	1137 1.05 2242 4.09
TU		WE		TH		FR		SU		MO		TU		WE	
<b>2</b>	1025 2.46 1701 1.79 WE 2028 1.85	<b>17</b>	0337 1.88 0834 2.18 TH 1613 1.51 2348 2.32	<b>2</b>	1103 1.49 2225 3.07	<b>17</b>	1127 1.44 2237 3.19	<b>2</b>	1159 0.90 2319 3.87	<b>17</b>	1144 1.04 2254 3.88	<b>2</b>	1213 1.05 2324 3.90	<b>17</b>	1212 1.14 2312 3.96
WE		TH		FR		SA		MO		TU		WE		TH	
<b>3</b>	0357 1.55 1056 2.11 TH 1628 1.67 2255 2.23	<b>18</b>	0454 1.94 0828 2.00 FR 1628 1.48 2359 2.57	<b>3</b>	1148 1.24 2310 3.35	<b>18</b>	1147 1.30 2300 3.36	<b>3</b>	1247 0.94	<b>18</b>	1231 1.02 2331 3.85	<b>3</b>	1226 1.24 2349 3.72	<b>18</b>	1241 1.34 2336 3.75
TH		FR		SA		SU		TU		WE		TH		FR	
<b>4</b>	0537 1.69 1032 1.78 FR 1639 1.49 2353 2.63	<b>19</b>	1639 1.44	<b>4</b>	1241 1.06 2355 3.52	<b>19</b>	1223 1.17 2330 3.49	<b>4</b>	0000 3.79 1330 1.04	<b>19</b>	1323 1.08	<b>4</b>	1200 1.44	<b>19</b>	1229 1.65 2351 3.47
FR		SA		SU		MO		WE		TH		FR		SA	
<b>5</b>	1651 1.29	<b>20</b>	0015 2.79 1630 1.37	<b>5</b>	1338 0.95	<b>20</b>	1311 1.06	<b>5</b>	0038 3.65 1351 1.20	<b>20</b>	0007 3.75 1413 1.25	<b>5</b>	0003 3.53 1108 1.58	<b>20</b>	0926 1.85 2343 3.18
SA		SU		MO		TU		TH		FR		SA		SU	
<b>6</b>	0043 2.96 1644 1.09	<b>21</b>	0038 2.99 1458 1.21	<b>6</b>	0043 3.59 1439 0.92	<b>21</b>	0006 3.57 1408 1.00	<b>6</b>	0113 3.46 1327 1.37	<b>21</b>	0042 3.54 1448 1.52	<b>6</b>	0009 3.33 0950 1.55 SU 2359 3.14	<b>21</b>	0843 1.71 2258 2.97
SU		MO		TU		WE		FR		SA		SU		MO	
<b>7</b>	0133 3.21 1633 0.90	<b>22</b>	0107 3.14 1534 1.05	<b>7</b>	0132 3.55 1543 0.95	<b>22</b>	0047 3.56 1508 1.01	<b>7</b>	0139 3.23 1304 1.52	<b>22</b>	0111 3.25 1028 1.76	<b>7</b>	0946 1.46 2314 3.02	<b>22</b>	0842 1.52 1741 3.16
MO		TU		WE		TH		SA		SU		MO		TU	
<b>8</b>	0227 3.35 1720 0.79	<b>23</b>	0145 3.24 1625 0.93	<b>8</b>	0222 3.44 1643 1.05	<b>23</b>	0132 3.47 1607 1.10	<b>8</b>	0157 2.98 1115 1.55	<b>23</b>	0121 2.91 1002 1.68	<b>8</b>	0946 1.40 1949 3.12	<b>23</b>	0833 1.34 1809 3.61
TU		WE		TH		FR		SU		MO		TU		WE	
<b>9</b>	0326 3.38 1814 0.76	<b>24</b>	0233 3.27 1722 0.88	<b>9</b>	0312 3.26 1729 1.21	<b>24</b>	0220 3.28 1707 1.30	<b>9</b>	0156 2.75 1110 1.51	<b>24</b>	0018 2.62 1001 1.57 TU 1835 2.87	<b>9</b>	0934 1.36 1946 3.36	<b>24</b>	0837 1.16 1851 3.98
WE		TH		FR		SA		MO		TU		WE		TH	
<b>10</b>	0426 3.34 1905 0.79	<b>25</b>	0330 3.23 1822 0.90	<b>10</b>	0359 3.05 1536 1.39	<b>25</b>	0310 3.01 1807 1.60	<b>10</b>	0029 2.59 1117 1.48 TU 2034 2.76	<b>25</b>	0920 1.42 1907 3.32	<b>10</b>	0931 1.32 1958 3.56	<b>25</b>	0857 1.02 1935 4.23
TH		FR		SA		SU		TU		WE		TH		FR	
<b>11</b>	0526 3.24 1949 0.88	<b>26</b>	0433 3.13 1921 1.01	<b>11</b>	0437 2.82 1517 1.53	<b>26</b>	0358 2.68 1143 1.81 MO 1757 2.00 1933 1.99	<b>11</b>	1056 1.48 2041 3.01	<b>26</b>	0916 1.23 1947 3.68	<b>11</b>	0934 1.29 2016 3.73	<b>26</b>	0923 0.92 2017 4.36
FR		SA		SU		MO		WE		TH		FR		SA	
<b>12</b>	0619 3.10 2023 1.03	<b>27</b>	0539 2.96 2020 1.22	<b>12</b>	0508 2.59 1418 1.61	<b>27</b>	0436 2.32 1151 1.76 TU 1908 2.43	<b>12</b>	1024 1.44 2054 3.22	<b>27</b>	0931 1.07 2026 3.95	<b>12</b>	0945 1.24 2036 3.88	<b>27</b>	0952 0.88 2058 4.38
SA		SU		MO		TU		TH		FR		SA		SU	
<b>13</b>	0704 2.92 2042 1.23	<b>28</b>	0643 2.74 2127 1.51	<b>13</b>	0531 2.38 1336 1.61 TU 2145 2.28	<b>28</b>	1042 1.69 1956 2.85	<b>13</b>	1011 1.38 2108 3.41	<b>28</b>	0954 0.94 2104 4.10	<b>13</b>	1004 1.17 2102 4.00	<b>28</b>	1023 0.88 2135 4.33
SU		MO		WE		TH		FR		SA		SU		MO	
<b>14</b>	0735 2.73 2011 1.46	<b>29</b>	0743 2.45 1531 1.88 TU 1852 1.96	<b>14</b>	0250 2.12 0548 2.19 WE 1345 1.60 2150 2.53	<b>29</b>	0959 1.46 2037 3.23	<b>14</b>	1017 1.30 2125 3.58	<b>29</b>	1025 0.87 2142 4.16	<b>14</b>	1031 1.10 2133 4.09	<b>29</b>	1054 0.95 2207 4.22
MO		TU		WE		TH		SA		SU		MO		TU	
<b>15</b>	0756 2.55 1656 1.57	<b>30</b>	0217 1.71 0836 2.13 WE 1418 1.84 2034 2.33	<b>15</b>	1358 1.61 2204 2.77	<b>30</b>	1006 1.23 2117 3.54	<b>15</b>	1037 1.20 2149 3.72	<b>30</b>	1102 0.86 2219 4.13	<b>15</b>	1103 1.05 2208 4.13	<b>30</b>	1123 1.08 2234 4.08
TU		WE		TH		FR		SU		MO		TU		WE	
						<b>31</b>	1033 1.05 2157 3.75							<b>31</b>	1141 1.29 2254 3.91
						SA								TH	

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

LAT 16° 40' S LONG 139° 10' E

Times and Heights of High and Low Waters

# 2015

Time Zone -1000

## JANUARY

Time	m	Time	m
<b>1</b>	0537 1.97 2017 3.17	<b>16</b>	0540 2.04 1939 3.25
TH		FR	
<b>2</b>	0616 1.72 2016 3.30	<b>17</b>	0550 1.86 1940 3.36
FR		SA	
<b>3</b>	0659 1.54 2031 3.41	<b>18</b>	0624 1.69 1957 3.47
SA		SU	
<b>4</b>	0742 1.43 2107 3.47	<b>19</b>	0708 1.55 2033 3.56
SU		MO	
<b>5</b>	0822 1.38 2151 3.48	<b>20</b>	0757 1.45 2124 3.61
MO ○		TU ●	
<b>6</b>	0902 1.38 2236 3.46	<b>21</b>	0845 1.38 2221 3.63
TU		WE	
<b>7</b>	0938 1.41 2317 3.41	<b>22</b>	0931 1.38 2317 3.59
WE		TH	
<b>8</b>	1012 1.46 2351 3.33	<b>23</b>	1011 1.44
TH		FR	
<b>9</b>	1042 1.54	<b>24</b>	0010 3.48 1043 1.57 1918 3.11 2125 3.06
FR		SA	
<b>10</b>	0017 3.23 1109 1.63 SA 1933 3.06 2154 3.02	<b>25</b>	0100 3.30 1108 1.76 SU 1927 3.03 2235 2.88
SA		SU	
<b>11</b>	0036 3.10 1130 1.75 SU 1945 3.04 2310 2.93	<b>26</b>	0147 3.03 1127 1.99 MO 1931 2.98
SU		MO	
<b>12</b>	0042 2.95 1146 1.89 MO 1953 3.03	<b>27</b>	1138 2.22 1916 3.00
MO		TU ●	
<b>13</b>	1154 2.04 1951 3.04	<b>28</b>	0323 2.39 0756 2.52 WE 1131 2.42 1852 3.10
TU ●		WE	
<b>14</b>	1125 2.20 1946 3.08	<b>29</b>	0409 2.09 1850 3.24
WE		TH	
<b>15</b>	0621 2.21 1944 3.15	<b>30</b>	0456 1.85 1856 3.37
TH		FR	
		<b>31</b>	0545 1.68 1915 3.46
		SA	

## FEBRUARY

Time	m	Time	m
<b>1</b>	0632 1.59 1951 3.50	<b>16</b>	0539 1.67 1912 3.48
SU		MO	
<b>2</b>	0718 1.56 2040 3.49	<b>17</b>	0633 1.58 2006 3.52
MO		TU	
<b>3</b>	0801 1.57 2133 3.45	<b>18</b>	0729 1.53 2113 3.52
TU		WE	
<b>4</b>	0839 1.60 2223 3.40	<b>19</b>	0821 1.54 2227 3.48
WE ○		TH ●	
<b>5</b>	0914 1.65 2306 3.32	<b>20</b>	0905 1.60 2337 3.37
TH		FR	
<b>6</b>	0945 1.72 2342 3.22	<b>21</b>	0940 1.73
FR		SA	
<b>7</b>	1011 1.81	<b>22</b>	0045 3.21 1004 1.92 SU 1813 2.86 2131 2.67
SA		SU	
<b>8</b>	0012 3.10 1031 1.92 SU 1836 2.96 2152 2.85	<b>23</b>	0206 2.98 1024 2.14 MO 1805 2.80 2235 2.45
SU		MO	
<b>9</b>	0037 2.95 1046 2.04 MO 1838 2.94 2251 2.73	<b>24</b>	0432 2.76 1041 2.35 TU 1717 2.84 2353 2.25
MO		TU	
<b>10</b>	0057 2.77 1057 2.18 TU 1823 2.95	<b>25</b>	0713 2.68 1051 2.53 WE 1703 2.98
TU		WE	
<b>11</b>	1102 2.32 1813 2.99	<b>26</b>	0143 2.04 1705 3.13
WE		TH ●	
<b>12</b>	0358 2.35 1812 3.07	<b>27</b>	0307 1.84 1717 3.25
TH ●		FR	
<b>13</b>	0347 2.15 1813 3.18	<b>28</b>	0405 1.70 1744 3.31
FR		SA	
<b>14</b>	0412 1.97 1817 3.29	<b>14</b>	0412 1.97 1817 3.29
SA		SA	
<b>15</b>	0451 1.80 1836 3.40	<b>15</b>	0451 1.80 1836 3.40
SU		SU	

## MARCH

Time	m	Time	m
<b>1</b>	0457 1.64 1822 3.33	<b>16</b>	0358 1.61 1737 3.23
SU		MO	
<b>2</b>	0546 1.63 1910 3.29	<b>17</b>	0451 1.55 1834 3.24
MO		TU	
<b>3</b>	0633 1.65 2006 3.23	<b>18</b>	0546 1.55 1944 3.20
TU		WE	
<b>4</b>	0718 1.70 2109 3.15	<b>19</b>	0643 1.59 2117 3.12
WE		TH	
<b>5</b>	0758 1.76 1753 2.97 TH 1849 2.96 2208 3.06	<b>20</b>	0737 1.69 1636 2.83 FR 1840 2.77 ● 2300 3.01
TH		FR	
<b>6</b>	0833 1.83 1729 2.87 FR 1941 2.84 ○ 2301 2.96	<b>21</b>	0819 1.84 1639 2.69 SA 1940 2.54
FR		SA	
<b>7</b>	0903 1.92 1708 2.80 SA 2022 2.71 2347 2.85	<b>22</b>	0031 2.88 0849 2.02 SU 1630 2.57 2036 2.28
SA		SU	
<b>8</b>	0926 2.03 1706 2.75 SU 2103 2.57	<b>23</b>	0234 2.75 0914 2.22 MO 1521 2.55 2133 2.05
SU		MO	
<b>9</b>	0033 2.71 0943 2.15 MO 1642 2.72 2147 2.43	<b>24</b>	0501 2.70 0936 2.41 TU 1442 2.66 2234 1.85
MO		TU	
<b>10</b>	0155 2.57 0957 2.27 TU 1623 2.73 2235 2.29	<b>25</b>	0638 2.70 0956 2.56 WE 1413 2.82 2342 1.69
TU		WE	
<b>11</b>	0641 2.53 1010 2.38 WE 1621 2.79 2334 2.15	<b>26</b>	0757 2.70 1008 2.67 TH 1429 2.96
WE		TH	
<b>12</b>	0755 2.56 1023 2.50 TH 1619 2.87	<b>27</b>	0059 1.57 1505 3.04
TH		FR ●	
<b>13</b>	0054 2.00 1607 2.97	<b>28</b>	0208 1.49 1545 3.06
FR		SA	
<b>14</b>	0214 1.85 1616 3.08	<b>29</b>	0305 1.47 1628 3.03
SA ●		SU	
<b>15</b>	0307 1.71 1650 3.17	<b>30</b>	0355 1.49 1708 2.97
SU		MO	
		<b>31</b>	0442 1.55 1747 2.87
		TU	

## APRIL

Time	m	Time	m
<b>1</b>	0528 1.63 1602 2.78	<b>16</b>	0450 1.48 1429 2.62 TH 1657 2.58 1942 2.64
WE		TH	
<b>2</b>	0613 1.73 1550 2.69	<b>17</b>	0542 1.63 1429 2.50 FR 1800 2.36 2218 2.51
TH		FR	
<b>3</b>	0656 1.83 1517 2.60 FR 1925 2.46 2210 2.50	<b>18</b>	0632 1.82 1406 2.39 SA 1856 2.10
FR		SA	
<b>4</b>	0735 1.94 1450 2.54 SA 1956 2.30 ○	<b>19</b>	0037 2.43 0716 2.03 SU 1320 2.34 ● 1949 1.83
SA		SU	
<b>5</b>	0132 2.42 0806 2.05 SU 1428 2.50 2029 2.14	<b>20</b>	0302 2.45 0753 2.22 MO 1229 2.41 2043 1.58
SU		MO	
<b>6</b>	0350 2.41 0829 2.17 MO 1416 2.50 2103 1.98	<b>21</b>	0502 2.53 0824 2.39 TU 1206 2.56 2137 1.38
MO		TU	
<b>7</b>	0522 2.45 0849 2.28 TU 1403 2.54 2142 1.83	<b>22</b>	1219 2.70 2233 1.24
TU		WE	
<b>8</b>	0618 2.50 0909 2.38 WE 1339 2.61 2226 1.71	<b>23</b>	0707 2.62 0917 2.58 TH 1252 2.80 2332 1.17
WE		TH	
<b>9</b>	0708 2.55 0931 2.47 TH 1322 2.70 2318 1.60	<b>24</b>	0806 2.61 0936 2.60 FR 1330 2.83
TH		FR	
<b>10</b>	0800 2.59 0954 2.55 FR 1337 2.79	<b>25</b>	0030 1.14 1407 2.81
FR		SA	
<b>11</b>	0020 1.50 1409 2.87	<b>26</b>	0123 1.15 1439 2.74
SA		SU ●	
<b>12</b>	0123 1.41 1450 2.91	<b>27</b>	0212 1.20 1449 2.65
SU ●		MO	
<b>13</b>	0218 1.35 1541 2.92	<b>28</b>	0255 1.28 1425 2.55
MO		TU	
<b>14</b>	0309 1.33 1648 2.87	<b>29</b>	0336 1.40 1334 2.47
TU		WE	
<b>15</b>	0359 1.37 1806 2.78	<b>30</b>	0415 1.53 1236 2.41
WE		TH	

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Datum of Predictions is Lowest Astronomical Tide

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

LAT 16° 40' S LONG 139° 10' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

MAY		JUNE		JULY		AUGUST									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0456 1.68 1224 2.37 FR 2129 2.01	<b>16</b>	0432 1.71 1132 2.21 SA 1814 1.68	<b>1</b>	1017 2.27 1941 1.18 MO	<b>16</b>	0905 2.41 2002 0.78 TU	<b>1</b>	0841 2.38 1953 0.79 WE	<b>16</b>	0924 2.47 2040 0.67 TH	<b>1</b>	1003 2.52 2107 0.68 SA	<b>16</b>	0558 2.18 0743 2.16 SU 1114 2.31 2127 0.99
<b>2</b>	0004 2.03 0538 1.83 SA 1222 2.34 1948 1.86	<b>17</b>	0038 2.04 0517 1.95 SU 1057 2.23 1907 1.41	<b>2</b>	1007 2.33 2013 1.04 TU	<b>17</b>	0947 2.49 2050 0.69 WE	<b>2</b>	0921 2.44 2039 0.70 TH	<b>17</b>	1027 2.45 2122 0.70 FR	<b>2</b>	0559 2.31 0721 2.29 SU 1113 2.51 2151 0.72	<b>17</b>	0537 2.12 0827 2.05 MO 1202 2.22 2155 1.09
<b>3</b>	0248 2.08 0621 1.98 SU 1216 2.34 2000 1.68	<b>18</b>	0422 2.18 0606 2.17 MO 1039 2.33 1958 1.18	<b>3</b>	0551 2.27 0608 2.27 WE 1015 2.41 2052 0.92	<b>18</b>	1039 2.52 2136 0.66 TH	<b>3</b>	1015 2.49 2126 0.65 FR	<b>18</b>	1121 2.40 2200 0.75 SA	<b>3</b>	1218 2.45 2228 0.83 MO	<b>18</b>	0543 2.07 0908 1.93 TU 1243 2.11 2218 1.20
<b>4</b>	0417 2.19 0658 2.12 MO 1206 2.36 2027 1.52	<b>19</b>	0522 2.34 0654 2.33 TU 1032 2.47 2049 1.00	<b>4</b>	0558 2.34 0713 2.33 TH 1043 2.48 2136 0.83	<b>19</b>	1128 2.51 2220 0.68 FR	<b>4</b>	1111 2.51 2213 0.63 SA	<b>19</b>	1207 2.33 2235 0.83 SU	<b>4</b>	0632 2.14 0914 2.02 TU 1321 2.32 2256 0.99	<b>19</b>	0553 2.03 0950 1.82 WE 1320 1.98 2238 1.33
<b>5</b>	0507 2.30 0730 2.24 TU 1153 2.42 2100 1.37	<b>20</b>	1103 2.58 2140 0.88 WE	<b>5</b>	1121 2.53 2223 0.78 FR	<b>20</b>	1212 2.46 2301 0.72 SA	<b>5</b>	1205 2.49 2255 0.66 SU	<b>20</b>	0631 2.12 0910 2.05 MO 1244 2.23 2305 0.92	<b>5</b>	0647 2.05 1011 1.84 WE 1436 2.14 2318 1.20	<b>20</b>	0550 2.01 1036 1.71 TH 1406 1.82 2254 1.47
<b>6</b>	0548 2.38 0800 2.33 WE 1143 2.50 2139 1.25	<b>21</b>	1143 2.64 2230 0.83 TH	<b>6</b>	1202 2.55 2310 0.75 SA	<b>21</b>	0707 2.24 0915 2.20 SU 1251 2.38 2339 0.79	<b>6</b>	0706 2.25 0915 2.18 MO 1257 2.43 2333 0.74	<b>21</b>	0648 2.07 0957 1.96 TU 1313 2.10 2330 1.03	<b>6</b>	0654 1.99 1115 1.66 TH 1641 1.93 2336 1.43	<b>21</b>	0536 2.03 1130 1.59 FR 1921 1.74 2304 1.61
<b>7</b>	1155 2.58 2224 1.16 TH	<b>22</b>	1224 2.64 2318 0.83 FR	<b>7</b>	0730 2.38 0921 2.34 SU 1246 2.54 2355 0.76	<b>22</b>	0731 2.19 1002 2.13 MO 1321 2.26	<b>7</b>	0732 2.17 1009 2.08 TU 1350 2.30	<b>22</b>	0705 2.04 1049 1.87 WE 1335 1.95 2351 1.17	<b>7</b>	0635 1.99 1236 1.47 FR 1939 1.82 2346 1.65	<b>22</b>	0534 2.08 1241 1.46 SA
<b>8</b>	0706 2.49 0902 2.44 FR 1221 2.64 2315 1.08	<b>23</b>	0742 2.43 0921 2.41 SA 1303 2.60	<b>8</b>	0808 2.34 1006 2.30 MO 1332 2.48	<b>23</b>	0012 0.89 0756 2.15 TU 1058 2.06 1339 2.13	<b>8</b>	0005 0.89 0755 2.10 WE 1114 1.94 1453 2.10	<b>23</b>	0713 2.03 1155 1.76 TH 1345 1.79	<b>8</b>	0612 2.09 1428 1.25 SA	<b>23</b>	0536 2.16 1428 1.31 SU
<b>9</b>	0749 2.51 0934 2.48 SA 1255 2.68	<b>24</b>	0005 0.86 0817 2.38 SU 0959 2.36 1336 2.51	<b>9</b>	0035 0.82 0844 2.28 TU 1103 2.23 1420 2.36	<b>24</b>	0041 1.00 0818 2.12 WE	<b>9</b>	0030 1.08 0810 2.04 TH 1240 1.77 1658 1.86	<b>24</b>	0006 1.32 0711 2.04 FR 1710 1.56 2015 1.57	<b>9</b>	0607 2.23 1550 1.04 SU	<b>24</b>	0532 2.26 1524 1.16 MO
<b>10</b>	0007 1.03 0839 2.52 SU 1006 2.50 1335 2.69	<b>25</b>	0047 0.92 0854 2.33 MO 1044 2.31 1355 2.40	<b>10</b>	0111 0.93 0914 2.22 WE 1230 2.12 1519 2.17	<b>25</b>	0105 1.15 0832 2.10 TH	<b>10</b>	0048 1.31 0810 2.03 FR 1449 1.54 2024 1.71	<b>25</b>	0012 1.48 0709 2.08 SA 1632 1.40	<b>10</b>	0605 2.37 1654 0.88 MO	<b>25</b>	0528 2.37 1611 1.04 TU
<b>11</b>	0058 1.01 1418 2.65 MO	<b>26</b>	0126 1.02 1339 2.28 TU	<b>11</b>	0143 1.10 0936 2.16 TH	<b>26</b>	0123 1.31 0838 2.09 FR 1935 1.52 2202 1.53	<b>11</b>	0052 1.54 0749 2.08 SA 1613 1.26	<b>26</b>	0708 2.14 1636 1.23 SU	<b>11</b>	0621 2.47 1750 0.80 TU	<b>26</b>	0547 2.46 1703 0.94 WE
<b>12</b>	0144 1.04 1507 2.56 TU	<b>27</b>	0200 1.13 0954 2.26 WE	<b>12</b>	0210 1.33 0945 2.11 FR 1625 1.66 2100 1.77	<b>27</b>	0125 1.49 0841 2.12 SA 1813 1.37	<b>12</b>	0739 2.18 1715 1.02 SU	<b>27</b>	0703 2.22 1706 1.07 MO	<b>12</b>	0657 2.50 1843 0.78 WE	<b>27</b>	0624 2.53 1757 0.88 TH
<b>13</b>	0227 1.12 1120 2.42 WE 1402 2.40 1620 2.41	<b>28</b>	0229 1.28 1011 2.22 TH	<b>13</b>	0221 1.58 0931 2.11 SA 1724 1.38	<b>28</b>	0840 2.16 1811 1.21 SU	<b>13</b>	0730 2.31 1812 0.84 MO	<b>28</b>	0659 2.32 1747 0.93 TU	<b>13</b>	0754 2.49 1932 0.79 TH	<b>28</b>	0717 2.56 1853 0.85 FR
<b>14</b>	0309 1.26 1136 2.34 TH 1622 2.20 1808 2.21	<b>29</b>	0255 1.46 1019 2.20 FR 2031 1.65 2334 1.69	<b>14</b>	0914 2.18 1819 1.14 SU	<b>29</b>	0831 2.22 1833 1.04 MO	<b>14</b>	0741 2.41 1904 0.73 TU	<b>29</b>	0714 2.41 1836 0.82 WE	<b>14</b>	0905 2.44 2015 0.84 FR	<b>29</b>	0830 2.55 1947 0.86 SA
<b>15</b>	0350 1.47 1141 2.26 FR 1720 1.95 2135 2.05	<b>30</b>	0310 1.64 1022 2.20 SA 1928 1.51	<b>15</b>	0901 2.29 1912 0.93 MO	<b>30</b>	0824 2.30 1909 0.90 TU	<b>15</b>	0823 2.47 1954 0.67 WE	<b>30</b>	0751 2.48 1928 0.74 TH	<b>15</b>	1015 2.38 2053 0.91 SA	<b>30</b>	0512 2.36 0616 2.36 SU 1001 2.50 2034 0.93
		<b>31</b>	1023 2.22 1921 1.35 SU						<b>31</b>	0851 2.51 2019 0.69 FR			<b>31</b>	0514 2.26 0724 2.20 MO 1131 2.44 2112 1.05	

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

● New Moon      ◐ First Quarter      ○ Full Moon      ◑ Last Quarter

Bureau of Meteorology

National Tidal Centre

# AUSTRALIA, GULF OF CARPENTARIA – MORNINGTON ISLAND

LAT 16° 40' S LONG 139° 10' E  
Times and Heights of High and Low Waters

# 2015

Time Zone -1000

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
<b>1</b>	0527 2.15 0820 2.00 TU 1251 2.34 2141 1.23	<b>16</b>	0406 2.08 0906 1.78 WE 1457 1.99 2124 1.61	<b>1</b>	0230 2.10 0914 1.48 TH 1654 2.26 2111 2.01	<b>16</b>	0111 2.36 0938 1.45 FR	<b>1</b>	0017 2.90 1104 1.01 SU	<b>16</b>	1051 1.20 MO	<b>1</b>	0028 3.21 1137 1.14 TU	<b>16</b>	0008 3.30 1122 1.29 WE 2020 3.09 2127 3.08
<b>2</b>	0535 2.04 0913 1.78 WE 1426 2.19 2204 1.45	<b>17</b>	0345 2.07 0943 1.65 TH 1724 1.96 2140 1.74	<b>2</b>	0140 2.22 1010 1.28 FR 1826 2.31 2134 2.19	<b>17</b>	0054 2.44 1015 1.34 SA 1905 2.35 2106 2.31	<b>2</b>	0054 2.95 1158 1.00 MO	<b>17</b>	0024 3.00 1135 1.18 TU 2046 2.84 2130 2.83	<b>2</b>	0059 3.12 1217 1.24 WE	<b>17</b>	0044 3.24 1155 1.36 TH 2048 3.06 2236 3.04
<b>3</b>	0520 1.98 1010 1.57 TH 1638 2.07 2225 1.67	<b>18</b>	0337 2.11 1024 1.52 FR 1846 1.99 2155 1.87	<b>3</b>	0114 2.41 1110 1.13 SA 1947 2.35 2148 2.32	<b>18</b>	0049 2.53 1058 1.26 SU 1958 2.42 2128 2.40	<b>3</b>	0130 2.94 1250 1.05 TU ☉	<b>18</b>	0057 3.01 1217 1.19 WE	<b>3</b>	0116 2.99 1251 1.38 TH 2134 2.89 ☉	<b>18</b>	0118 3.13 1224 1.48 FR 2111 3.02 ☉
<b>4</b>	0432 2.03 1113 1.38 FR 1857 2.04 2241 1.87	<b>19</b>	0335 2.17 1111 1.41 SA 1953 2.04 2209 1.99	<b>4</b>	0138 2.57 1216 1.03 SU	<b>19</b>	0104 2.62 1148 1.20 MO	<b>4</b>	0158 2.86 1337 1.14 WE	<b>19</b>	0130 2.98 1258 1.24 TH ☉	<b>4</b>	1320 1.54 2145 2.87 FR	<b>19</b>	1248 1.65 2125 2.98 SA ☉
<b>5</b>	0414 2.17 1228 1.21 SA 2038 2.05 ☉ 2242 2.03	<b>20</b>	0314 2.26 1207 1.31 SU	<b>5</b>	0215 2.67 1324 0.99 MO ☉	<b>20</b>	0131 2.69 1241 1.15 TU	<b>5</b>	0202 2.76 1420 1.27 TH	<b>20</b>	0156 2.89 1336 1.34 FR 2246 2.83	<b>5</b>	1340 1.72 2155 2.86 SA	<b>20</b>	1304 1.87 2131 2.94 SU
<b>6</b>	0356 2.34 1358 1.07 SU	<b>21</b>	0251 2.37 1315 1.21 MO ☉	<b>6</b>	0254 2.70 1426 1.00 TU	<b>21</b>	0205 2.74 1335 1.13 WE ☉	<b>6</b>	0121 2.67 1458 1.43 FR 2354 2.62	<b>21</b>	1411 1.50 2259 2.78 SA	<b>6</b>	1347 1.91 2159 2.86 SU	<b>21</b>	1250 2.11 2119 2.95 MO
<b>7</b>	0410 2.47 1514 0.96 MO	<b>22</b>	0312 2.47 1422 1.12 TU	<b>7</b>	0330 2.67 1520 1.06 WE	<b>22</b>	0241 2.74 1425 1.14 TH	<b>7</b>	1532 1.61 2345 2.59 SA	<b>22</b>	1442 1.72 2305 2.72 SU	<b>7</b>	0845 2.01 2200 2.89 MO	<b>22</b>	0551 2.08 2101 3.03 TU
<b>8</b>	0444 2.55 1615 0.92 TU	<b>23</b>	0347 2.55 1519 1.06 WE	<b>8</b>	0348 2.59 1610 1.16 TH	<b>23</b>	0315 2.70 1514 1.21 FR	<b>8</b>	1604 1.80 2346 2.57 SU	<b>23</b>	1455 1.98 2256 2.68 MO	<b>8</b>	0801 1.89 2159 2.93 TU	<b>23</b>	0621 1.80 2053 3.16 WE
<b>9</b>	0525 2.56 1710 0.93 WE	<b>24</b>	0435 2.60 1612 1.03 TH	<b>9</b>	0314 2.51 1656 1.29 FR	<b>24</b>	0130 2.62 1604 1.33 SA	<b>9</b>	0921 1.96 1250 2.02 MO 1635 1.99 2345 2.57	<b>24</b>	0623 1.98 2231 2.72 TU	<b>9</b>	0749 1.74 2157 3.00 WE	<b>24</b>	0704 1.56 2053 3.31 TH
<b>10</b>	0612 2.52 1802 0.99 TH	<b>25</b>	0534 2.60 1707 1.05 FR	<b>10</b>	0302 2.43 1741 1.42 SA	<b>25</b>	0127 2.55 0525 2.44 SU 0606 2.44 1654 1.51	<b>10</b>	0832 1.84 2337 2.60 TU	<b>25</b>	0701 1.71 2216 2.84 WE	<b>10</b>	0756 1.60 2154 3.08 TH	<b>25</b>	0749 1.39 2124 3.42 FR ☉
<b>11</b>	0713 2.44 1849 1.06 FR	<b>26</b>	0646 2.55 1802 1.11 SA	<b>11</b>	0227 2.36 1823 1.56 SU	<b>26</b>	0124 2.46 0602 2.23 MO 0914 2.26 1744 1.73	<b>11</b>	0820 1.69 2329 2.65 WE	<b>26</b>	0747 1.46 2207 2.99 TH ☉	<b>11</b>	0819 1.47 2203 3.16 FR ☉	<b>26</b>	0834 1.28 2209 3.48 SA
<b>12</b>	0455 2.33 1931 1.15 SA	<b>27</b>	0815 2.46 1854 1.22 SU	<b>12</b>	0205 2.31 0757 2.03 MO 1224 2.05 1902 1.70	<b>27</b>	0106 2.37 0647 1.97 TU 1231 2.22 ☉ 1831 1.97	<b>12</b>	0835 1.54 1750 2.49 TH 1830 2.48 ☉ 2322 2.73	<b>27</b>	0834 1.26 2232 3.14 FR	<b>12</b>	0850 1.37 2226 3.23 SA	<b>27</b>	0919 1.23 2255 3.49 SU
<b>13</b>	0446 2.25 0716 2.19 SU 0954 2.25 ☉ 2007 1.25	<b>28</b>	0350 2.32 0636 2.22 MO 1033 2.36 ☉ 1939 1.38	<b>13</b>	0150 2.28 0810 1.88 TU 1420 2.06 ☉ 1935 1.83	<b>28</b>	0032 2.34 0736 1.69 WE 2355 2.43 *	<b>13</b>	0901 1.41 2322 2.81 FR	<b>28</b>	0921 1.13 2310 3.23 SA	<b>13</b>	0926 1.30 2256 3.28 SU	<b>28</b>	1000 1.25 2338 3.44 MO
<b>14</b>	0422 2.18 0754 2.06 MO 1120 2.15 2038 1.36	<b>29</b>	0357 2.20 0730 1.99 TU 1226 2.28 2015 1.58	<b>14</b>	0142 2.27 0836 1.72 WE 1621 2.13 2002 1.97	<b>29</b>	0826 1.43 1714 2.48 TH 1948 2.41 2332 2.60	<b>14</b>	0933 1.31 2333 2.89 SA	<b>29</b>	1008 1.07 2351 3.25 SU	<b>14</b>	1005 1.27 2332 3.31 MO	<b>29</b>	1039 1.31 TU
<b>15</b>	0418 2.12 0830 1.92 TU 1247 2.06 2103 1.48	<b>30</b>	0328 2.09 0821 1.73 WE 1437 2.24 2045 1.80	<b>15</b>	0128 2.30 0905 1.58 TH 1724 2.21 2024 2.10	<b>30</b>	0917 1.22 2344 2.77 FR	<b>15</b>	1011 1.24 2355 2.96 SU	<b>30</b>	1054 1.08 MO	<b>15</b>	1044 1.26 TU	<b>30</b>	0015 3.35 1113 1.41 WE 2013 3.09 2119 3.08
				<b>31</b>	1010 1.08 SA							<b>31</b>	0043 3.21 1143 1.53 TH 2011 3.05 2240 3.01		

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Datum of Predictions is Lowest Astronomical Tide  
Moon Symbols

☉ New Moon

☾ First Quarter

☽ Full Moon

☾ Last Quarter

Bureau of Meteorology

National Tidal Centre

\* Denotes extra Tides

## Extra tides for Queensland – 2015

Twin Island		
<b>Feb</b>		
<b>9</b>	2343	1.75
<b>10</b>	0546	1.37
<b>24</b>	1403	1.69
	1621	1.73
<b>Mar</b>		
<b>12</b>	2323	1.99
<b>13</b>	0243	1.80
<b>Aug</b>		
<b>19</b>	0637	1.31
	1331	1.90
<b>Sep</b>		
<b>16</b>	1247	2.34
	1731	1.24
<b>Nov</b>		
<b>14</b>	2003	1.51
	2259	1.76

Thursday Island		
<b>Feb</b>		
<b>7</b>	1742	2.03
	1829	2.04
<b>22</b>	0456	1.93
	0700	2.06
	1736	2.26
	1828	2.27
<b>Mar</b>		
<b>9</b>	2349	2.13
<b>10</b>	0453	1.81
<b>23</b>	1655	1.87
	1905	2.04
<b>Apr</b>		
<b>21</b>	1923	1.88
	2114	1.80
<b>22</b>	2048	2.10
	2233	2.06
<b>Continued right</b>		

Thursday Is cont		
<b>Aug</b>		
<b>3</b>	1906	1.61
	2104	1.56
<b>18</b>	0534	1.75
	0618	1.75
	0944	1.57
	1314	1.65
<b>Sep</b>		
<b>1</b>	1656	1.73
	1813	1.76
<b>16</b>	1230	1.98
	1634	1.59
<b>Oct</b>		
<b>1</b>	0446	1.70
	0637	1.81
<b>2</b>	0243	1.65
	0448	1.51
<b>15</b>	1634	1.90
	1810	1.96
	2052	1.82
	2238	1.88
<b>31</b>	0817	1.97
	0957	1.93

Goods Island		
<b>Sep</b>		
<b>11</b>	1958	2.28
	2348	2.42

Morningson Island		
<b>Oct</b>		
<b>28</b>	1531	2.32
	1912	2.20

## Highest tides for year 2015

Place	Highest Summer Tide			Highest Winter Tide		
	Date	Time	Height	Date	Time	Height
Gold Coast Seaway HAT 1.91	21/01/2015	08:50	1.84m	18/05/2015	20:42	1.81m
Brisbane Bar HAT 2.73	19/02/2015	08:31	1.84m	01/08/2015	21:09	1.81m
Mooloolaba HAT 2.17	21/01/2015	10:11	2.69m	01/08/2015	22:29	2.63m
Noosa Head HAT 2.28	21/01/2015	08:39	2.12m	18/05/2015	20:29	2.06m
Urangan HAT 4.28	19/02/2015	08:19	2.12m	01/08/2015	20:58	2.06m
Fraser Island (Waddy Point) HAT 2.37	21/01/2015	08:37	2.25m	18/05/2015	20:22	2.20m
Bundaberg (Burnett Heads) HAT 3.67	19/01/2015	08:55	4.20m	30/08/2015	21:14	4.08m
Gladstone HAT 4.83	21/01/2015	08:26	2.28m	18/05/2015	20:25	2.18m
Port Alma HAT 5.98	19/02/2015	08:49	3.52m	30/08/2015	21:05	3.35m
Roslyn Bay HAT 5.14	19/02/2015	09:27	4.73m	30/08/2015	21:46	4.52m
Hay Point HAT 7.14	19/02/2015	09:26	5.82m	29/08/2015	21:02	5.58m
Mackay Outer Harbour HAT 6.58	19/02/2015	09:17	5.06m	29/08/2015	20:49	4.83m
Shute Harbour HAT 4.33	19/02/2015	09:17	5.06m	29/08/2015	20:49	4.83m
Bowen HAT 3.73	19/02/2015	09:22	3.62m	29/08/2015	21:38	3.37m
Abbot Point HAT 3.60	18/02/2015	09:09	3.48m	29/08/2015	21:24	3.24m
Townsville HAT 4.11	18/02/2015	09:09	3.48m	29/08/2015	21:24	3.24m
Lucinda Offshore HAT 3.96	19/02/2015	09:14	4.08m	29/08/2015	20:51	3.82m
Mourilyan Harbour HAT 3.50	19/02/2015	09:18	3.93m	29/08/2015	20:55	3.66m
Cairns HAT 3.50	19/02/2015	09:18	3.47m	29/08/2015	20:54	3.23m
Port Douglas HAT 3.36	19/02/2015	09:31	3.41m	29/08/2015	21:07	3.17m
Twin Island HAT 3.80	19/02/2015	09:20	3.33m	29/08/2015	20:58	3.07m
Thursday Island HAT 3.86	18/02/2015	11:47	3.66m	29/08/2015	23:58	3.58m
Goods Island HAT 4.07	18/02/2015	12:24	3.62m			
Booby Island HAT 4.31	29/01/2015	11:20	3.94m			
Weipa HAT 3.38	28/01/2015	10:45	4.26m			
Karumba HAT 4.88	21/01/2015	16:30	3.18m			
Mornington Island HAT 3.87	05/01/2015	20:01	4.37m			
	27/12/2015	20:58	4.38m			
	21/01/2015	22:21	3.63m			

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 review in 2018 unless significant change occurs.

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.

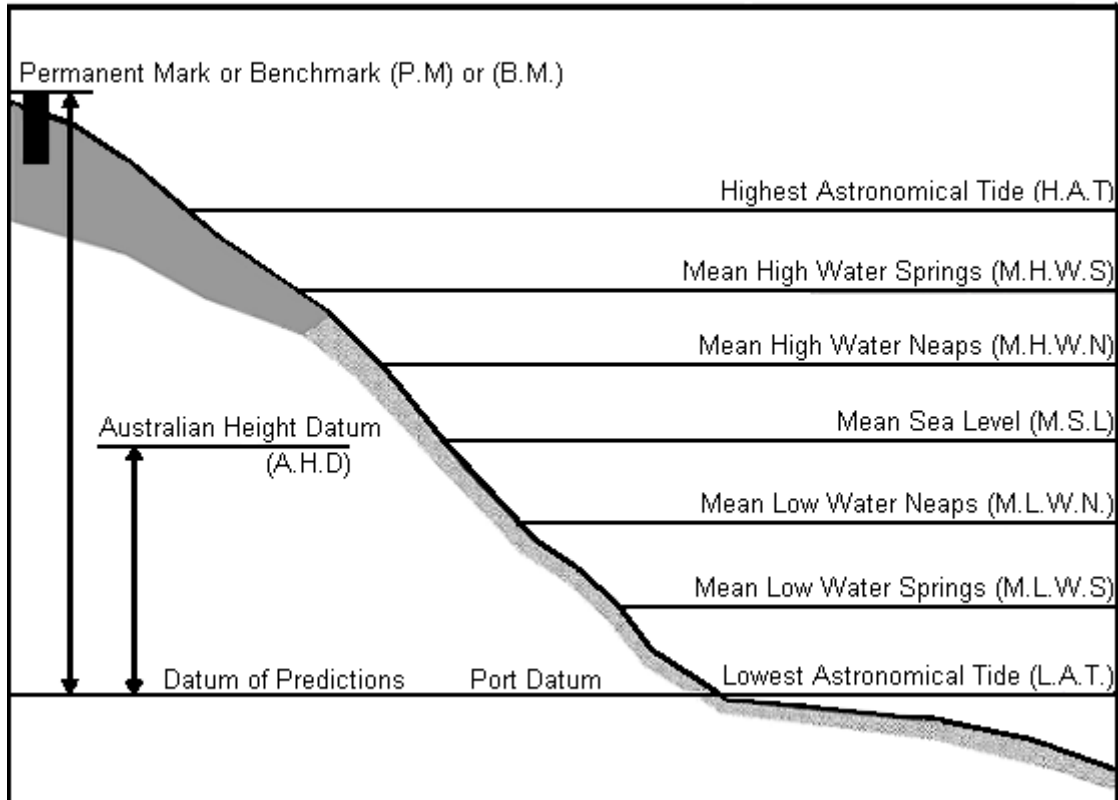
In the past, this was generally chosen for port and chart datum in Queensland waters however it was superseded by LAT datum in 1994.

# Guide to tidal planes

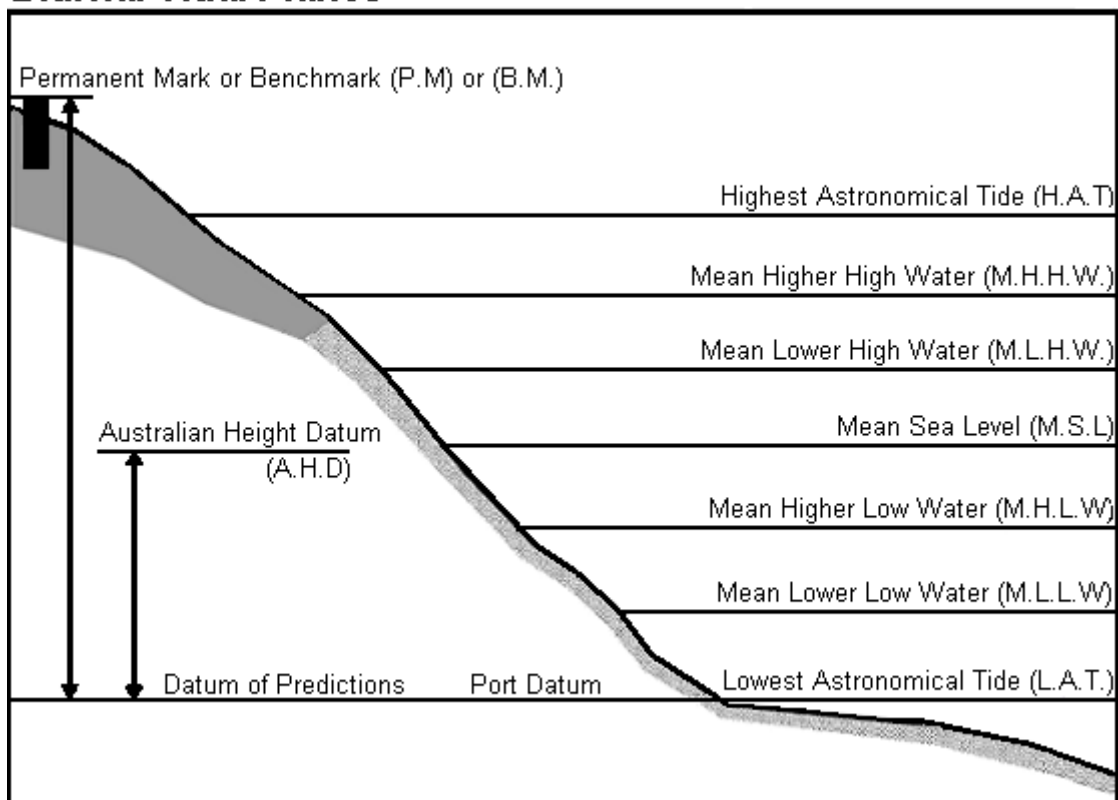
## Tidal datum epoch

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 2018 when the current tidal datum epoch will be subject to review. The secondary place tidal planes have also been updated to match the new values adopted at the standard ports.

## Semidiurnal Tidal Planes



## 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	Abbot Point	PM 66022	8.740	1.626
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	Mourilyan Harbour	PM 4855	5.037	1.729
Waddy Point (Fraser Island)	PM NMV/B/417	3.165	1.007	Cairns	PM 96052	5.008	1.643
Urangan	PM 11028	5.835	2.040	Port Douglas	PM 10077	6.058	1.581
Bundaberg (Burnett Heads)	PM 3853	6.061	1.693	Leggatt Island	Mean Sea Level	1.691	N.A.
Gladstone	PM 10855	5.660	2.268	Twin Island	PM NMV/B/463	2.990	N.A.
Port Alma	PM 22966	6.706	2.854	Thursday Island	PM 10078	6.375	1.769
Rosslyn Bay	PM 47784	6.640	2.360	Goods Island	PM NMV/B/477	5.330	N.A.
Hay Point	PM 38627	18.040	3.340	Booby Island	PM BM1	10.770	N.A.
Mackay Outer Harbour	PM 20035	10.595	2.941	Weipa (Humbug Point)	PM 15094	7.287	1.752
Bugatti Reef	PM BM. No. 1	2.330	N.A.	Karumba	PM 10222	6.808	2.184
Shute Harbour	PM 8295	5.103	1.907	Mornington Island	PM RM3	4.894	2.000
Bowen	PM 10009	8.689	1.776				

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 – 2015

An allowance of 2.0 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	0.789	Abbot Point	May 1985 to Dec 1995	1.718
Brisbane Bar	Jan 1985 to Dec 2012	1.298	Townsville	Jan 1985 to Dec 2011	1.975
Mooloolaba	Jan 1987 to Dec 2012	0.982	Lucinda (Offshore)	Jan 1985 to Dec 2011	1.919
Noosa Head	Dec 1970 to Dec 1971	1.124	Mourilyan Harbour	Jan 1985 to Dec 2011	1.769
Waddy Point (Fraser Island)	Oct 1976 to Feb 1978	1.157	Cairns	Jan 1985 to Dec 2011	1.726
Urangan	Sep 1986 to Dec 2012	2.111	Port Douglas	Jan 1987 to Dec 2011	1.628
Bundaberg (Burnett Heads)	Jan 1985 to Dec 2012	1.747	Leggatt Island	Sep 1995 to Apr 1996	1.700
Gladstone	Jan 1985 to Dec 2012	2.367	Twin Island	Jul 1974 to Jul 1975	1.775
Port Alma	Jan 1986 to Dec 2012	2.930	Thursday Island	Jan 1985 to Dec 2002	1.896
Rosslyn Bay	Jan 1993 to Dec 2012	2.452	Goods Island	Jan 1990 to Dec 2011	2.168
Hay Point	Jan 1985 to Dec 2012	3.400	Booby Island	Jan 1990 to Dec 2011	2.450
Mackay Outer Harbour	Jan 1988 to Dec 2011	3.045	Weipa (Humbug Point)	Jan 1985 to Dec 2011	1.870
Bugatti Reef	Oct 1996 to Mar 1997	1.544	Karumba	Dec 1985 to Dec 2011	2.147
Shute Harbour	Jan 1987 to Dec 2011	1.947	Mornington Island	Jun 2007 to Dec 2012	2.124
Bowen	Jan 1986 to Dec 2011	1.789			

# Semidiurnal Tidal Planes - 2015

## Height above lowest astronomical tide

Place	Latitude	Longitude	Time Difference		MHWS	MHWN	MLWN	MLWS	AHD	MSL	Ratio	Cons	HAT	
	South	East	HW	LW	3	4	5	6	7	8	9	10	11	
Tidal Datum Epoch 1992 - 2011				1	2	3	4	5	6	7	8	9	10	11
				H M	H M	m	m	m	m	m	m			mm
<b>Gold Coast Seaway</b>	27 57	153 25	Standard Port		1.42	1.13	0.39	0.11	0.760	0.76	1.00	0.00	1.91	
<b>North Coast New South Wales -</b>														
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	
<b>Gold Coast Beaches -</b>														
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.													
<b>Broadwater &amp; Nerang River-</b>														
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	
<b>Brisbane Bar</b>	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	
<b>Albert River -</b>														
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	
Wolffdene	27 47	153 11	+2 12		1.32	0.98			0.91				1.79	
<b>Logan River -</b>														
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	
<b>Brisbane River -</b>														
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	
<b>Bremer River</b>														
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	
<b>Moreton Bay Area -</b>														
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 - 2015

## Height above lowest astronomical tide

Place	Latitude South	Longitude East	Time Difference		MHWS 3	MHWN 4	MLWN 5	MLWS 6	AHD 7	MSL 8	Ratio 9	Cons 10	HAT 11
			HW 1	LW 2									
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 - 2015

## Height above lowest astronomical tide

Place	Latitude South	Longitude East	Time Difference		MHWS 3	MHWN 4	MLWN 5	MLWS 6	AHD 7	MSL 8	Ratio 9	Cons 10	HAT 11
			HW 1	LW 2									
Tidal Datum Epoch 1992 - 2011			H M	H M	m	m	m	m	m	m			mm
<b>Mooloolaba</b>	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	2.21
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	2.17
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	2.17
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	2.17
<b>Maroochy River -</b>													
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
<b>Noosa Head</b>	26 23	153 06	Standard Port		1.78	1.45	0.71	0.38	1.123	1.08	1.00	0.00	2.28
<b>Noosa River -</b>													
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	1.10
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	0.89
<b>Noosa Beaches -</b>													
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	2.28
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	2.28
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	2.28
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	2.28
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	2.28
<b>Waddy Point (Fraser Island)</b>	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									
<b>Urangan</b>	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	4.58
<b>Bundaberg (Burnett Heads)</b>	24 46	152 23	Standard Port		2.88	2.30	1.14	0.56	1.693	1.72	1.00	0.00	3.67
<b>Great Sandy Strait -</b>													
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	2.94
Elbow Point	25 48	153 01	+0 15	-0 03	2.14	1.71	0.85	0.42		1.28	0.74	0.01	2.73
Snout Point	25 42	152 59	+0 55	+0 29	2.34	1.86	0.92	0.45		1.39	0.81	0.00	2.97
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	2.75
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	2.75
Boonlye Point	25 34	152 56	+1 09	+0 57	3.14	2.51	1.24	0.61		1.89	1.09	0.00	4.00
Ungowa Jetty	25 30	152 59	+0 51	+0 49	3.83	3.06	1.52	0.74		2.39	1.33	0.00	4.88
<b>Mary River -</b>													
Bingham (River Heads)	25 26	152 55	+1 13	+1 11	3.70	3.05	1.19	0.64	2.17	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 - 2015

## Height above lowest astronomical tide

Place	Latitude South	Longitude East	Time Difference		MHWS 3	MHWN 4	MLWN 5	MLWS 6	AHD 7	MSL 8	Ratio 9	Cons 10	HAT 11
			HW 1	LW 2									
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
<b>Gladstone</b>	<b>23 50</b>	<b>151 15</b>	<b>Standard Port</b>		<b>3.96</b>	<b>3.11</b>	<b>1.57</b>	<b>0.72</b>	<b>2.268</b>	<b>2.34</b>	<b>1.00</b>	<b>0.00</b>	<b>4.83</b>
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
<b>Port Alma</b>	<b>23 35</b>	<b>150 52</b>	<b>Standard Port</b>		<b>4.93</b>	<b>3.83</b>	<b>1.98</b>	<b>0.88</b>	<b>2.854</b>	<b>2.90</b>	<b>1.00</b>	<b>0.00</b>	<b>5.98</b>
<b>Rosslyn Bay</b>	<b>23 10</b>	<b>150 48</b>	<b>Standard Port</b>		<b>4.23</b>	<b>3.24</b>	<b>1.60</b>	<b>0.62</b>	<b>2.360</b>	<b>2.42</b>	<b>1.00</b>	<b>0.00</b>	<b>5.14</b>
<b>Hay Point</b>	<b>21 16</b>	<b>149 18</b>	<b>Standard Port</b>		<b>5.80</b>	<b>4.48</b>	<b>2.25</b>	<b>0.94</b>	<b>3.340</b>	<b>3.37</b>	<b>1.00</b>	<b>0.00</b>	<b>7.14</b>
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
<b>Mackay Outer Harbour</b>	<b>21 06</b>	<b>149 14</b>	<b>Standard Port</b>		<b>5.29</b>	<b>4.07</b>	<b>1.96</b>	<b>0.74</b>	<b>2.941</b>	<b>3.02</b>	<b>1.00</b>	<b>0.00</b>	<b>6.58</b>
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 - 2015

## Height above lowest astronomical tide

Place	Latitude	Longitude	Time Difference		MHWS	MHWN	MLWN	MLWS	AHD	MSL	Ratio	Cons	HAT	
	South	East	HW	LW	3	4	5	6	7	8	9	10	11	
Tidal Datum Epoch 1992 - 2011				1	2	3	4	5	6	7	8	9	10	11
				H M	H M	m	m	m	m	m	m			mm
<b>Bugatti Reef</b>	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
<b>Shute Harbour</b>	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	
<b>Bowen</b>	20 01	148 15	Standard Port		2.83	2.21	1.31	0.67	1.78	1.76	1.00	0.00	3.73	
<b>Abbot Point</b>	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	
<b>Townsville</b>	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	
<b>Lucinda (Offshore)</b>	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	
<b>Mourilyan Harbour</b>	17 36	146 07	Standard Port		2.65	1.98	1.49	0.83	1.729	1.74	1.00	0.00	3.50	
Clump Point	17 51	146 06	+0.01	+0.01	2.72	2.01	1.49	0.79	1.68	1.73	1.06	-0.09	3.62	
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	
Peart 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	
<b>Cairns</b>	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 - 2015

## Height above lowest astronomical tide

Place	Latitude South	Longitude East	Time Difference		MHWS 3	MHWN 4	MLWN 5	MLWS 6	AHD 7	MSL 8	Ratio 9	Cons 10	HAT 11
			HW 1	LW 2									
Tidal Datum Epoch 1992 - 2011													
			H M	H M	m	m	m	m	m	m			mm
<b>Port Douglas</b>	<b>16 29</b>	<b>145 28</b>	<b>Standard Port</b>		<b>2.49</b>	<b>1.83</b>	<b>1.37</b>	<b>0.70</b>	<b>1.581</b>	<b>1.60</b>	<b>1.00</b>	<b>0.00</b>	<b>3.36</b>
<b>Leggatt Island</b>	<b>14 32</b>	<b>144 51</b>	<b>Standard Port</b>							<b>1.70</b>	<b>1.00</b>	<b>0.00</b>	<b>3.4</b>
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 - 2015

## Height above lowest astronomical tide

Place	Latitude South	Longitude East	Time Difference		MHHW 3	MLHW 4	MHLW 5	MLLW 6	AHD 7	MSL 8	Ratio 9	Cons 10	HAT 11
			HW 1	LW 2									
Tidal Datum Epoch 1992 - 2011													
			H M	H M	m	m	m	m	m	m		m	m
<b>Shute Harbour</b>	<b>20 17</b>	<b>148 47</b>	<b>Standard Port</b>						<b>1.907</b>	<b>1.92</b>	<b>1.00</b>	<b>0.00</b>	<b>4.33</b>
Molle Island	20 15	148 50	-0 01	-0 01	3.5	2.2	1.5	0.2		1.81			4.1
<b>Bugatti Reef</b>	<b>20 05</b>	<b>150 18</b>	<b>Standard Port</b>							<b>1.56</b>	<b>1.00</b>	<b>0.00</b>	<b>3.5</b>
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
<b>Townsville</b>	<b>19 15</b>	<b>146 50</b>	<b>Standard Port</b>						<b>1.856</b>	<b>1.94</b>	<b>1.00</b>	<b>0.00</b>	<b>4.11</b>
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
<b>Mourilyan Harbour</b>	<b>17 36</b>	<b>146 07</b>	<b>Standard Port</b>		<b>2.79</b>	<b>1.85</b>	<b>1.63</b>	<b>0.69</b>	<b>1.729</b>	<b>1.74</b>	<b>1.00</b>	<b>0.00</b>	<b>3.50</b>
South Barnard Island	17 44	146 09	-0 05	-0 05	2.7	1.7	1.5	0.6		1.62			3.4
<b>Cairns</b>	<b>16 56</b>	<b>145 47</b>	<b>Standard Port</b>		<b>2.74</b>	<b>1.81</b>	<b>1.58</b>	<b>0.65</b>	<b>1.643</b>	<b>1.70</b>	<b>1.00</b>	<b>0.00</b>	<b>3.50</b>
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 - 2015

## Height above lowest astronomical tide

Place	Latitude	Longitude	Time Difference		MHHW	MLHW	MHLW	MLLW	AHD	MSL	Ratio	Cons	HAT
	South	East	HW	LW	3	4	5	6	7	8	9	10	11
Tidal Datum Epoch 1992 - 2011			1	2	3	4	5	6	7	8	9	10	11
			H M	H M	m	m	m	m	m	m		m	m
<b>Port Douglas</b>	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
<b>Leggatt Island</b>	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
<b>Twin Island</b>	10 28	142 26	Standard Port		2.97	1.97	1.51	0.51		1.74	1.00	0.00	3.80
<b>Thursday Island</b>	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
<b>Goods Island</b>	10 34	142 09	Standard Port		3.72	2.67	1.59	0.54		2.13	1.00	0.00	4.07
<b>Booby Island</b>	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
<b>Weipa (Humbug Point)</b>	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
<b>Karumba</b>	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
<b>Mornington Island</b>	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
	South	East	HW	LW									
			1	2	3	4	5	6	7	8	9	10	11
			H M	H 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

Extract from tidal prediction tables for standard ports

Ports

Standard port	"Standard"	
Secondary Place	Time difference H. W	-0.25
	Time difference L. W	-0.20
	Column 9	0.81
	Column 10	+0.04

March

Time	m
0428	0.41
<b>16</b> 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	
	= 1.90 + 0.04	= 1.94m
Predicted L.W. at standard port	0.41m at 04:28	
Time of L.W. at secondary place	= 04:28 - 20 minutes	= 04:08
Height of L. W. at secondary place	= (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

1. Obtain the tidal predictions from the tables.

Extract from tidal prediction tables for standard ports	Time	m
	0428	0.41
<b>16</b>	1033	2.35
	1658	0.40
	2257	2.21

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

3. 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

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

L.W      0.4m (rounded off)  
      +1.6m  
      2.0m (approx.) at 08:40

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

1. 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

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

3. 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

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

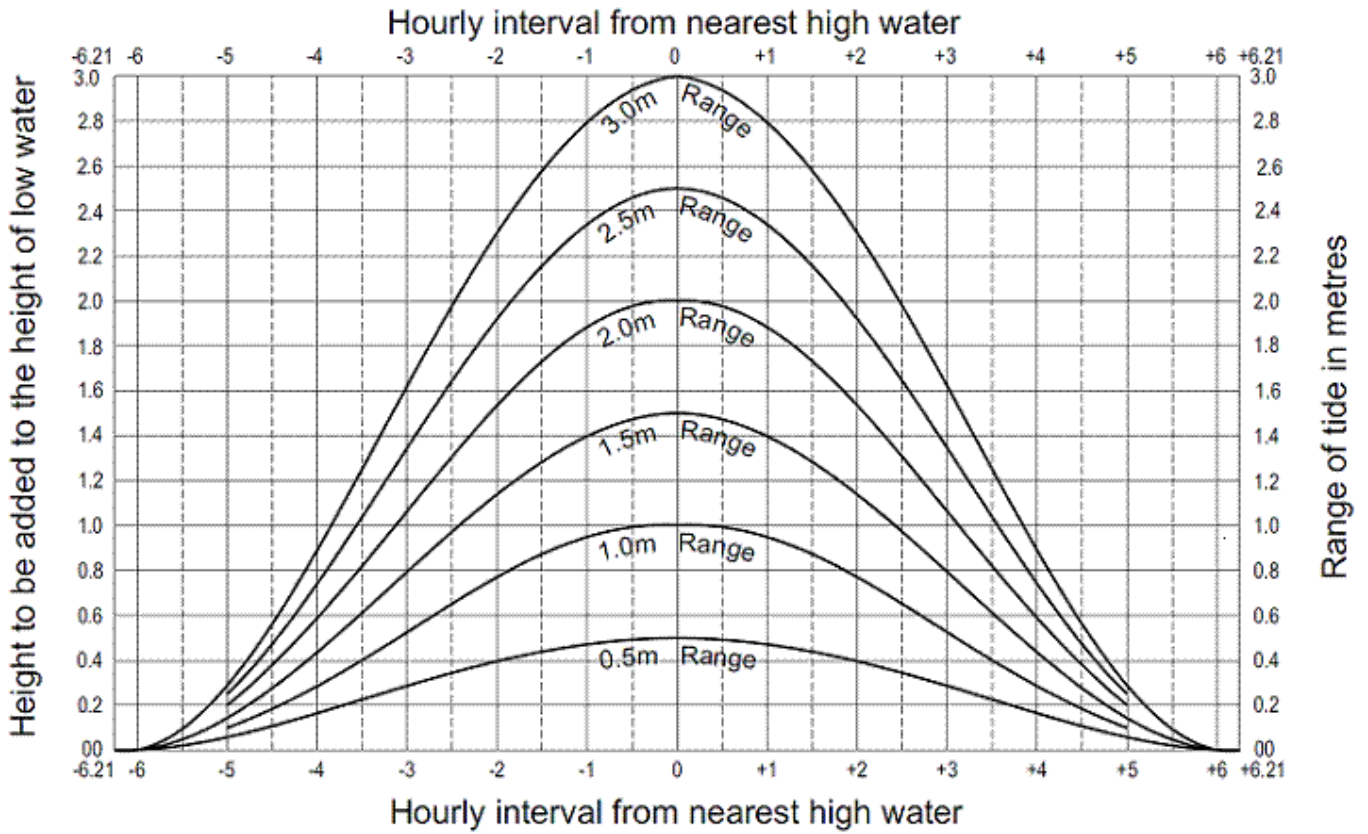
L.W      0.4m (rounded off)  
      +1.4m  
      1.8m (approx.) at 08:40

## Conversion – Metres to Feet

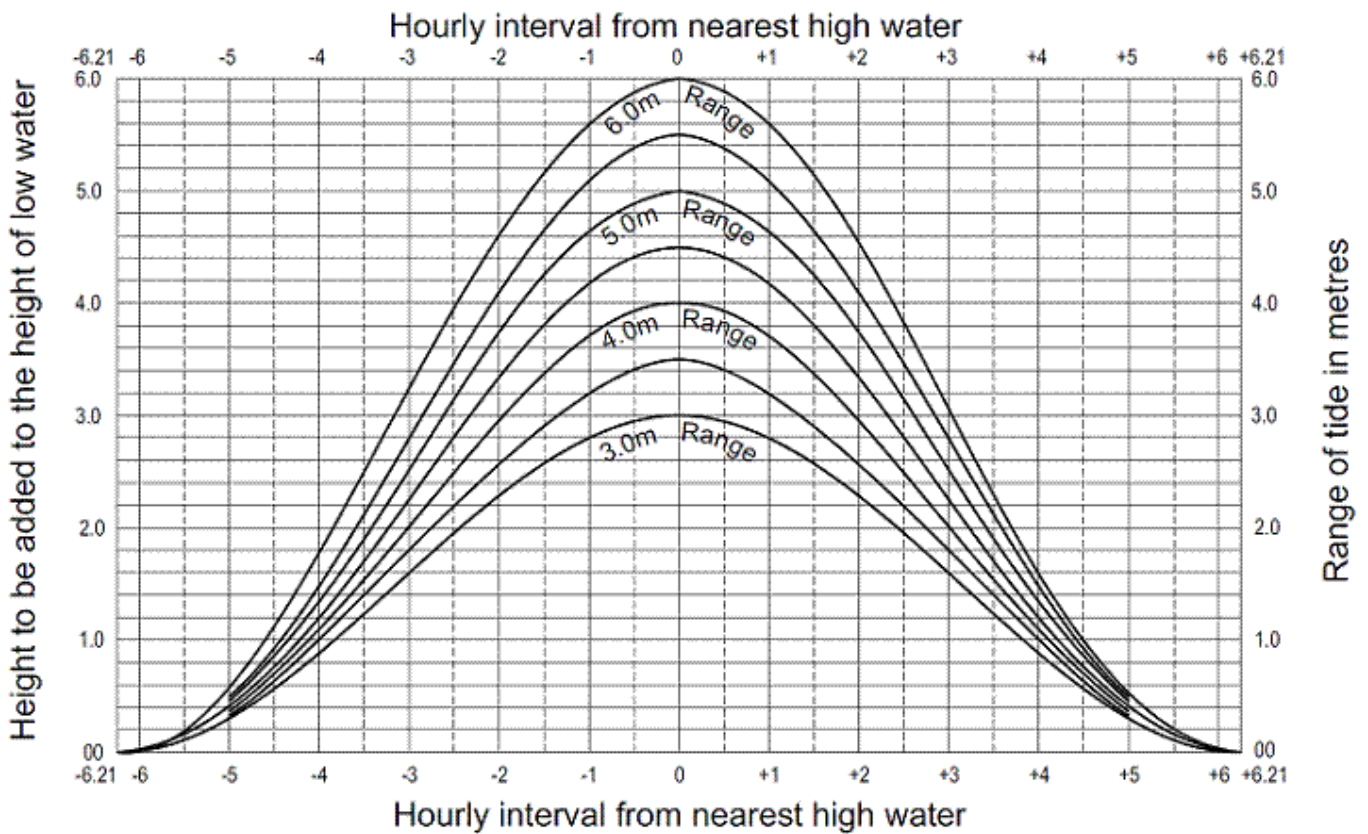
Metres	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
	Feet									
0	0.00	0.33	0.66	0.98	1.31	1.64	1.97	2.30	2.62	2.95
1	3.28	3.61	3.94	4.27	4.59	4.92	5.25	5.58	5.91	6.23
2	6.56	6.89	7.22	7.55	7.87	8.20	8.53	8.86	9.19	9.51
3	9.84	10.17	10.50	10.83	11.15	11.48	11.81	12.14	12.47	12.80
4	13.12	13.45	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

## Tide ranges up to three metres



## Tide ranges up to six metres



# 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 101 to 107.



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.

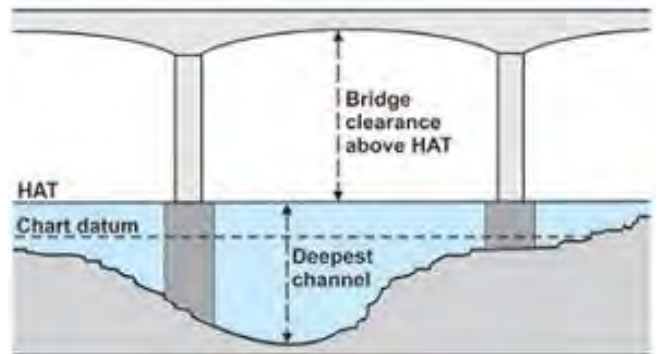
Weather conditions, storm surge, flood runoff, current, wave action or wash from other vessels should be considered as factors that can cause an additional reduction of your calculated clearance.

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

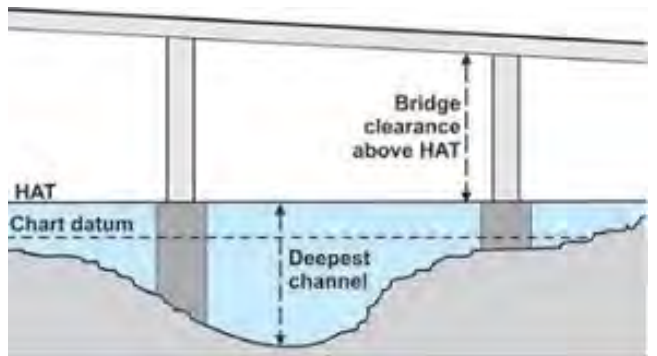
To ensure the safety of your vessel and persons onboard, know the maximum height of your vessel above the waterline, its maximum draught, always keep a proper lookout, and navigate beneath the overhead structure at an appropriate speed.

## 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.



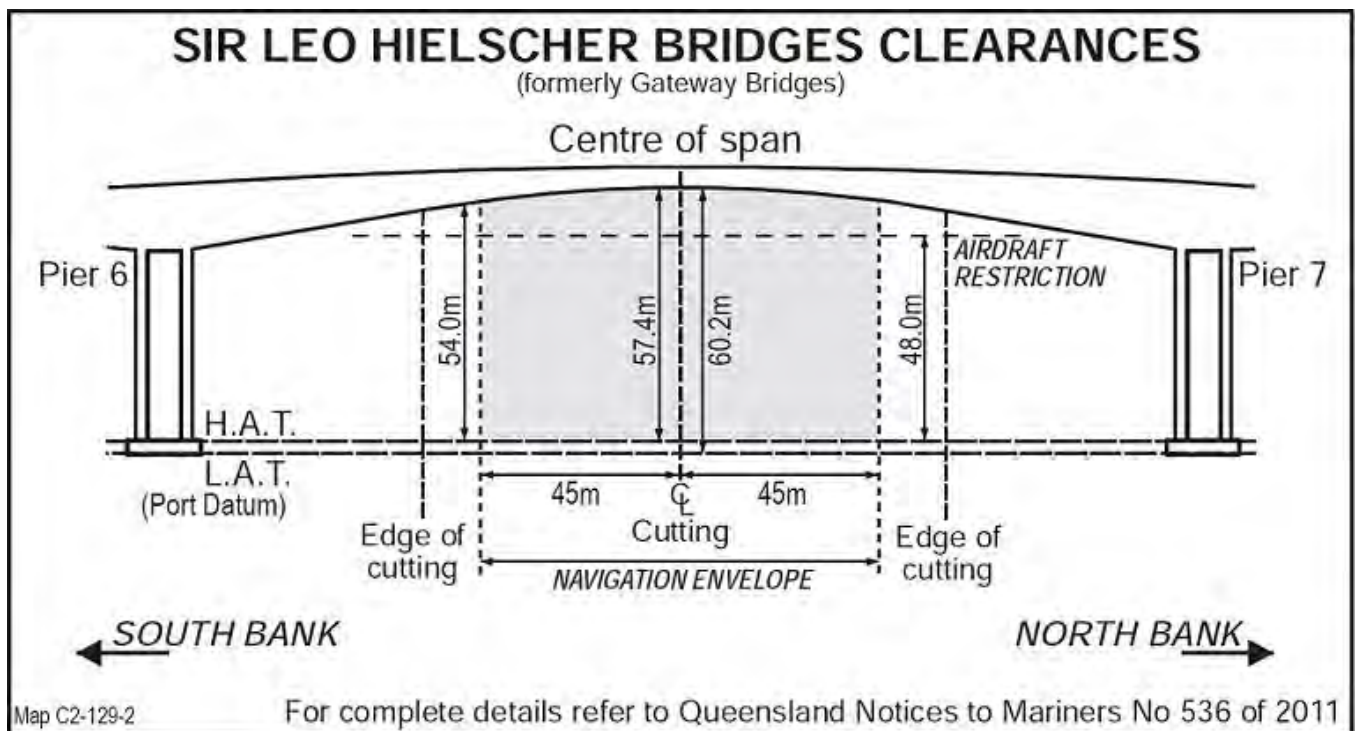
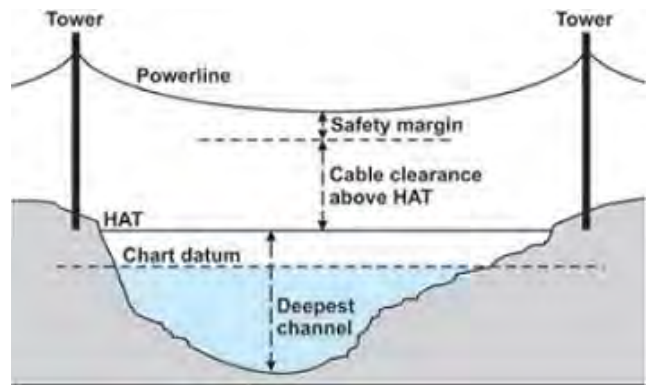
In all instances, the deepest part of the navigation channel may not occur at the point of maximum clearance.



## 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.



**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.



## 2015 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 20 23:14	Jan 27 14:48	Jan 05 14:53	Jan 13 19:46	Jan 22 06:07	Jan 10 04:18
Feb 19 09:47	Feb 26 03:14	Feb 04 09:09	Feb 12 13:50	Feb 19 17:31	Feb 06 16:27
Mar 20 19:36	Mar 27 17:43	Mar 06 04:05	Mar 14 03:48	Mar 20 05:39	Mar 05 17:36
Apr 19 04:57	Apr 26 09:55	Apr 04 22:05	Apr 12 13:44	Apr 17 13:54	Apr 01 23:00
May 18 14:13	May 26 03:19	May 04 13:42	May 11 20:36	Apr 17 13:54	Apr 29 13:56
Jun 17 00:05	Jun 24 21:02	Jun 03 02:19	Jun 10 01:42	May 15 10:24	May 27 08:14
Jul 16 11:24	Jul 24 14:04	Jul 02 12:20	Jul 09 06:24	Jun 10 14:40	Jun 24 03:02
Aug 15 00:53	Aug 23 05:31	Jul 31 20:43	Aug 07 12:03	Jul 06 04:55	Jul 21 21:03
Sep 13 16:41	Sep 21 18:59	Aug 30 04:35	Sep 05 19:54	Aug 02 20:12	Aug 18 12:34
Oct 13 10:06	Sep 21 18:59	Sep 28 12:50	Oct 05 07:06	Aug 31 01:25	Sep 14 21:29
Nov 12 03:47	Oct 21 06:31	Oct 27 22:05	Nov 03 22:24	Sep 28 11:47	Oct 11 23:18
Dec 11 20:29	Nov 19 16:27	Nov 26 08:44	Dec 03 17:40	Oct 26 23:00	Nov 08 07:50
	Dec 19 01:14	Dec 25 21:11		Nov 24 06:07	Dec 06 00:57
				Dec 21 18:54	

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

Times are Australian Eastern Standard Time

## 2015 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 04 17:00	Mar 21 08:45	Jun 22 02:38	Jul 07 05:00	Sep 23 18:20	Dec 22 14:48

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	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	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	0620	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	0628	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	1750	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	1828	0607	1829	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	1846	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 2015

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	S 0134 R 1506	S 0246 R 1632	S 0134 R 1515	S 0255 R 1550	S 0321 R 1534	S 0443 R 1606	S 0519 R 1626	S 0639 R 1816	S 0733 R 2019	S 0742 R 2114	S 0901 R 2248	S 0934 R 2255
02	S 0220 R 1603	S 0337 R 1717	S 0226 R 1557	S 0346 R 1625	S 0413 R 1609	S 0539 R 1652	S 0615 R 1723	S 0726 R 1921	S 0818 R 2124	S 0832 R 2215	S 0956 R 2335	S 1028 R 2333
03	S 0308 R 1657	S 0430 R 1758	S 0317 R 1637	S 0436 R 1659	S 0505 R 1647	S 0635 R 1742	S 0708 R 1825	S 0812 R 2026	S 0904 R 2227	S 0924 R 2313	S 1051 R 0018	S 1120 R 0009
04	S 0358 R 1748	S 0522 R 1837	S 0409 R 1714	S 0527 R 1734	S 0558 R 1727	S 0731 R 1837	S 0759 R 1927	S 0856 R 2130	S 0952 R 2327	S 1018 R 0006	S 1145 R 0058	S 1212 R 0044
05	S 0450 R 1835	S 0613 R 1913	S 0500 R 1749	S 0619 R 1810	S 0653 R 1811	S 0824 R 1935	S 0847 R 2031	S 0940 R 2233	S 1041 R 0025	S 1112 R 0055	S 1237 R 0134	S 1302 R 0118
06	S 0543 R 1919	S 0704 R 1948	S 0550 R 1824	S 0711 R 1848	S 0748 R 1858	S 0916 R 2036	S 0932 R 2134	S 1023 R 2335	S 1132 R 0120	S 1205 R 0139	S 1328 R 0209	S 1353 R 0153
07	S 0636 R 2000	S 0755 R 2022	S 0641 R 1858	S 0804 R 1929	S 0843 R 1949	S 1004 R 2137	S 1016 R 2237	S 1108 R 0036	S 1224 R 0210	S 1258 R 0220	S 1419 R 0244	S 1444 R 0229
08	S 0728 R 2037	S 0845 R 2057	S 0732 R 1933	S 0858 R 2013	S 0937 R 2044	S 1050 R 2239	S 1058 R 2339	R 0036 S 1155	R 0210 S 1317	R 0220 S 1351	R 0244 S 1509	R 0229 S 1535
09	S 0819 R 2113	S 0936 R 2132	S 0823 R 2010	S 0953 R 2101	S 1028 R 2142	S 1133 R 2341	S 1140 R 0040	R 0134 S 1244	R 0257 S 1410	R 0258 S 1442	R 0318 S 1600	R 0307 S 1628
10	S 0910 R 2147	S 1028 R 2209	S 0915 R 2048	S 1047 R 2153	S 1118 R 2242	S 1215 R 0043	S 1224 R 0141	S 1335 R 0323	S 1503 R 0420	S 1533 R 0408	S 1651 R 0430	S 1722 R 0433
11	S 1000 R 2221	S 1121 R 2249	S 1009 R 2130	S 1140 R 2249	S 1205 R 2343	R 0043 S 1257	R 0141 S 1309	R 0323 S 1427	R 0420 S 1555	R 0408 S 1624	R 0430 S 1743	R 0433 S 1816
12	S 1051 R 2256	S 1215 R 2332	S 1103 R 2215	S 1231 R 2348	S 1249 R 0045	R 0145 R 0247	R 0241 R 0339	R 0413 R 0458	R 0457 R 0533	R 0443 R 0517	R 0510 R 0552	R 0522 R 0615
13	S 1143 R 2332	S 1310 R 0021	S 1157 R 2305	S 1249 R 0049	S 1249 R 0148	S 1340 R 0348	S 1356 R 0435	S 1520 R 0541	S 1646 R 0607	S 1714 R 0553	S 1836 R 0638	S 1909 R 0710
14	S 1236 R 0011	S 1407 R 0114	R 2359 R 0153	S 1320 R 0251	S 1333 R 0449	S 1424 R 0528	S 1446 R 0620	S 1614 R 0759	S 1737 R 1918	S 1805 R 1948	S 1929 R 2114	S 2001 R 2137
15	S 1330 R 0054	S 1503 R 0212	S 1345 R 0058	S 1452 R 0257	S 1459 R 0355	S 1601 R 0548	S 1632 R 0616	S 1759 R 0657	S 1918 R 0716	S 1948 R 0711	S 2114 R 0820	S 2137 R 0908
16	S 1427 R 0141	S 1558 R 0315	S 1437 R 0200	S 1537 R 0402	S 1543 R 0458	S 1653 R 0643	S 1726 R 0701	S 1851 R 0732	S 2009 R 0752	S 2040 R 0754	S 2204 R 0916	S 2222 R 1009
17	S 1525 R 0233	S 1651 R 0421	S 1527 R 0304	S 1621 R 0507	S 1630 R 0601	S 1747 R 0735	S 1821 R 0743	S 1942 R 0806	S 2100 R 0830	S 2133 R 0840	S 2252 R 1014	S 2304 R 1110
18	S 1623 R 0331	S 1741 R 0528	S 1616 R 0411	S 1707 R 0613	S 1719 R 0702	S 1842 R 0822	S 1914 R 0821	S 2032 R 0840	S 2152 R 0911	S 2225 R 0931	S 2337 R 1114	S 2346 R 1211
19	S 1721 R 0433	S 1829 R 0635	S 1702 R 0517	S 1753 R 0717	S 1811 R 0801	S 1936 R 0906	S 2006 R 0857	S 2123 R 0916	S 2244 R 0956	S 2316 R 1025	S 0021 R 1215	S 0028 R 1313
20	S 1815 R 0539	S 1915 R 0742	S 1748 R 0624	S 1842 R 0820	S 1905 R 0855	S 2030 R 0945	S 2057 R 0932	S 2214 R 0952	S 2337 R 1044	S 0006 R 1122	S 0104 R 1317	S 0111 R 1415
21	S 1907 R 0645	S 2000 R 0847	S 1833 R 0730	S 1933 R 0919	S 1959 R 0944	S 2123 R 1022	S 2148 R 1006	S 2305 R 1032	S 2305 R 1137	R 1122 S 0053	R 1317 S 0147	R 1415 S 0156
22	S 1955 R 0752	S 2045 R 0951	S 1919 R 0835	S 2025 R 1014	S 2054 R 1029	S 2214 R 1058	S 2238 R 1040	S 2358 R 1115	S 0030 R 1122	S 0053 R 1222	S 0147 R 1420	S 0156 R 1518
23	S 2041 R 0857	S 2130 R 1052	S 2006 R 0937	S 2118 R 1105	S 2148 R 1110	S 2305 R 1132	S 2329 R 1116	R 1122 S 0052	R 1234 S 0212	R 1324 S 0225	R 1525 S 0315	R 1621 S 0334
24	S 2125 R 1000	S 2216 R 1151	S 2055 R 1037	S 2212 R 1152	S 2240 R 1148	S 2356 R 1206	S 0052 R 1155	R 1202 S 0146	R 1334 S 0301	R 1428 S 0309	R 1630 S 0403	R 1722 S 0429
25	S 2207 R 1102	S 2303 R 1248	S 2145 R 1133	S 2305 R 1234	S 2332 R 1224	S 0047 R 1242	R 1155 S 0114	R 1253 S 0240	R 1438 S 0349	R 1533 S 0354	R 1735 S 0454	R 1820 S 0525
26	S 2250 R 1203	S 2353 R 1340	S 2237 R 1225	S 2357 R 1313	S 0023 R 1313	S 0139 R 1259	S 0209 R 1319	S 0333 R 1322	S 0435 R 1450	S 0440 R 1649	S 0548 R 1746	S 0622 R 1939
27	S 2334 R 1301	S 0043 R 1430	S 2329 R 1312	S 0049 R 1350	S 0113 R 1333	S 0232 R 1359	S 0304 R 1412	S 0425 R 1554	S 0521 R 1756	S 0528 R 1852	S 0644 R 2035	S 0719 R 2049
28	S 0019 R 1358	S 0021 R 1356	S 0021 R 1356	S 0140 R 1425	S 0204 R 1408	S 0327 R 1444	S 0400 R 1508	S 0514 R 1700	S 0607 R 1903	S 0618 R 1957	S 0741 R 2127	S 0815 R 2129
29	S 0106 R 1453	S 0113 R 1436	S 0113 R 1436	S 0230 R 1459	S 0256 R 1444	S 0423 R 1532	S 0455 R 1608	S 0602 R 1807	S 0654 R 2009	S 0711 R 2058	S 0838 R 2213	S 0909 R 2207
30	S 0155 R 1544	S 0204 R 1514	S 0204 R 1514	S 0349 R 1523	S 0349 R 1523	S 0548 R 1711	S 0648 R 1913	S 0648 R 1913	S 0805 R 2156	S 0805 R 2156	S 1002 R 2243	S 1002 R 2243

# TIMES OF MOONRISE AND MOONSET – GLADSTONE 2015

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	S 0240 R 1411	S 0409 R 1526	S 0254 R 1414	S 0337 R 1531	S 0324 R 1555	S 0355 R 1715	S 0411 R 1750	S 0554 R 1909	S 0752 R 2007	S 0844 R 2021	S 1023 R 2143	S 1037 R 2214
02	S 0336 R 1458	S 0456 R 1618	S 0339 R 1505	S 0413 R 1621	S 0400 R 1645	S 0440 R 1811	S 0507 R 1845	S 0658 R 1957	S 0855 R 2054	S 0946 R 2113	S 1114 R 2238	S 1118 R 2306
03	S 0431 R 1548	S 0540 R 1709	S 0420 R 1556	S 0449 R 1710	S 0438 R 1737	S 0529 R 1906	S 0606 R 1938	S 0801 R 2043	S 0958 R 2141	S 1045 R 2206	S 1159 R 2331	S 1156 R 2357
04	S 0524 R 1639	S 0621 R 1800	S 0459 R 1646	S 0524 R 1800	S 0517 R 1830	S 0622 R 2001	S 0707 R 2029	S 0904 R 2128	S 1059 R 2230	S 1141 R 2300	S 1241 R 2300	S 1233 R 2300
05	S 0613 R 1731	S 0659 R 1850	S 0536 R 1736	S 0601 R 1851	S 0600 R 1924	S 0718 R 2054	S 0809 R 2117	S 1007 R 2213	S 1158 R 2321	S 1232 R 2353	R 0023 S 1320	R 0046 S 1308
06	S 0659 R 1823	S 0736 R 1939	S 0613 R 1825	S 0639 R 1943	S 0646 R 2019	S 0817 R 2145	S 0911 R 2202	S 1108 R 2258	S 1254 R 2358	S 1319 R 0013	S 1357 R 0203	S 1343 R 0225
07	S 0742 R 1915	S 0812 R 2029	S 0648 R 1914	S 0719 R 2036	S 0736 R 2113	S 0917 R 2233	S 1013 R 2246	S 1208 R 2345	R 0013 S 1347	R 0046 S 1402	R 0203 S 1433	R 0225 S 1420
08	S 0822 R 2005	S 0847 R 2118	S 0724 R 2004	S 0803 R 2129	S 0829 R 2206	S 1018 R 2318	S 1114 R 2330	S 1307 R 0034	R 0105 S 1435	R 0138 S 1443	R 0253 S 1508	R 0315 S 1458
09	S 0900 R 2055	S 0923 R 2208	S 0800 R 2055	S 0849 R 2223	S 0925 R 2257	S 1118 S 1118	S 1214 S 1214	S 1404 S 1404	R 0158 S 1521	R 0228 S 1521	R 0342 S 1544	R 0407 S 1538
10	S 0936 R 2145	S 1000 R 2259	S 0839 R 2147	S 0939 R 2316	S 1023 R 2346	R 0002 S 1219	R 0014 S 1314	R 0124 S 1458	R 0250 S 1603	R 0318 S 1557	R 0432 S 1621	R 0459 S 1622
11	S 1011 R 2234	S 1039 R 2352	S 0920 R 2240	S 1033 S 1033	S 1123 S 1123	S 1319 S 1319	S 1413 S 1413	S 1549 S 1549	S 1643 S 1643	S 1633 S 1633	S 1700 S 1700	S 1710 S 1710
12	S 1047 R 2324	S 1122 R 0046	S 1004 R 2333	R 0009 S 1130	R 0033 S 1223	R 0129 S 1420	R 0146 S 1512	R 0309 S 1637	R 0432 S 1720	R 0457 S 1708	R 0614 S 1742	R 0646 S 1801
13	S 1123 R 0015	S 1208 R 0142	S 1052 R 0028	S 1230 R 0149	S 1324 R 0203	S 1520 R 0301	S 1608 R 0327	S 1756 R 0454	S 1744 R 0611	S 1744 R 0636	S 1827 R 0759	S 1855 R 0829
14	S 1201 R 0108	S 1259 R 0238	S 1144 R 0122	S 1331 R 0236	S 1426 R 0247	S 1620 R 0350	S 1703 R 0420	S 1804 R 0546	S 1832 R 0701	S 1822 R 0727	S 1915 R 0851	S 1951 R 0918
15	S 1243 R 0203	S 1355 R 0334	S 1240 R 0215	S 1433 R 0323	S 1528 R 0333	S 1720 R 0442	S 1754 R 0514	S 1843 R 0636	S 1907 R 0750	S 1902 R 0818	S 2006 R 0942	S 2050 R 1005
16	S 1328 R 0259	S 1455 R 0429	S 1340 R 0307	S 1536 R 0409	S 1630 R 0420	S 1817 R 0535	S 1841 R 0608	S 1920 R 0726	S 1944 R 0840	S 1944 R 0910	S 2100 R 1032	S 2148 R 1050
17	S 1419 R 0357	S 1559 R 0522	S 1443 R 0358	S 1640 R 0455	S 1732 R 0509	S 1910 R 0629	S 1925 R 0700	S 1956 R 0816	S 2022 R 0931	S 2029 R 1002	S 2157 R 1119	S 2248 R 1133
18	S 1514 R 0455	S 1704 R 0612	S 1547 R 0446	S 1744 R 0542	S 1834 R 0600	S 2000 R 0723	S 2006 R 0752	S 2031 R 0905	S 2102 R 1022	S 2118 R 1054	S 2255 R 1205	S 2347 R 1216
19	S 1614 R 0552	S 1810 R 0701	S 1652 R 0534	S 1848 R 0631	S 1933 R 0653	S 2047 R 0817	S 2044 R 0842	S 2107 R 0954	S 2145 R 1114	S 2210 R 1144	S 2354 R 1250	S 0047 R 1300
20	S 1717 R 0646	S 1916 R 0748	S 1757 R 0621	S 1950 R 0722	S 2029 R 0747	S 2129 R 0909	S 2120 R 0932	S 2144 R 1045	S 2232 R 1207	S 2305 R 1234	S 0054 R 1334	S 0148 R 1345
21	S 1823 R 0738	S 2020 R 0834	S 1902 R 0708	S 2051 R 0814	S 2121 R 0841	S 2208 R 1000	S 2156 R 1021	S 2223 R 1136	S 2323 R 1259	S 2323 S 0003	R 1334 S 0155	R 1345 S 0250
22	S 1928 R 0826	S 2123 R 0920	S 2006 R 0756	S 2148 R 0907	S 2209 R 0935	S 2245 R 1050	S 2231 R 1111	S 2304 R 1229	R 1259 S 0017	R 1259 S 0103	S 0155 R 1418	S 0250 R 1433
23	S 2032 R 0912	S 2225 R 1006	S 2108 R 0845	S 2241 R 1000	S 2252 R 1027	S 2321 R 1139	S 2307 R 1201	S 2350 R 1322	R 1351 S 0115	R 1409 S 0204	R 1504 S 0401	R 1523 S 0453
24	S 2135 R 0956	S 2324 R 1054	S 2209 R 0935	S 2330 R 1053	S 2333 R 1118	S 2357 R 1229	S 2345 R 1253	S 2345 R 1253	R 1442 S 0216	R 1455 S 0307	R 1552 S 0505	R 1616 S 0552
25	S 2236 R 1040	S 2306 R 1143	S 2306 R 1026	S 2306 R 1145	S 2306 R 1208	S 2306 R 1319	S 2306 R 1346	S 2306 R 1511	R 1417 R 1531	R 1417 R 1531	R 1643 R 1712	R 1712 R 1712
26	S 2336 R 1125	S 0021 R 1233	S 2359 R 1118	S 0015 R 1236	S 0011 R 1258	S 0032 R 1410	S 0026 R 1440	S 0134 R 1604	S 0319 R 1707	S 0411 R 1716	S 0608 R 1831	S 0649 R 1905
27	S 0035 R 1210	S 0206 R 1323	S 0050 R 1209	S 0136 R 1326	S 0123 R 1347	S 0150 R 1504	S 0159 R 1536	S 0333 R 1655	S 0529 R 1754	S 0622 R 1806	S 0808 R 1928	S 0829 R 2001
28	S 0132 R 1257	S 0132 R 1301	S 0136 R 1301	S 0212 R 1415	S 0158 R 1437	S 0233 R 1558	S 0252 R 1631	S 0437 R 1745	S 0635 R 1842	S 0726 R 1859	S 0903 R 2025	S 0912 R 2055
29	S 0227 R 1345	S 0227 R 1345	S 0219 R 1352	S 0248 R 1505	S 0235 R 1528	S 0320 R 1654	S 0350 R 1726	S 0542 R 1833	S 0740 R 1931	S 0829 R 1953	S 0952 R 2120	S 0953 R 2147
30	S 0319 R 1435	S 0319 R 1435	S 0259 R 1442	S 0314 R 1621	S 0314 R 1621	S 0314 R 1621	S 0451 R 1818	S 0647 R 1920	S 0928 R 2048	S 0928 R 2048	S 1030 R 2238	S 1030 R 2238

# TIMES OF MOONRISE AND MOONSET – MACKAY 2015

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	S 0245 R 1423	S 0413 R 1539	S 0258 R 1427	S 0343 R 1541	S 0332 R 1602	S 0407 R 1720	S 0424 R 1754	S 0605 R 1914	S 0759 R 2016	S 0849 R 2033	S 1027 R 2156	S 1042 R 2225
02	S 0341 R 1511	S 0500 R 1630	S 0343 R 1517	S 0420 R 1630	S 0409 R 1652	S 0452 R 1815	S 0520 R 1849	S 0708 R 2003	S 0902 R 2104	S 0951 R 2126	S 1118 R 2250	S 1124 R 2316
03	S 0435 R 1601	S 0545 R 1721	S 0425 R 1607	S 0457 R 1718	S 0448 R 1743	S 0542 R 1910	S 0618 R 1943	S 0811 R 2051	S 1004 R 2153	S 1049 R 2219	S 1204 R 2343	S 1203
04	S 0527 R 1652	S 0626 R 1811	S 0505 R 1656	S 0533 R 1808	S 0528 R 1835	S 0635 R 2005	S 0719 R 2034	S 0913 R 2137	S 1104 R 2243	S 1145 R 2312	S 1247	R 0006 S 1240
05	S 0617 R 1744	S 0705 R 1900	S 0543 R 1745	S 0611 R 1857	S 0612 R 1929	S 0731 R 2058	S 0820 R 2123	S 1014 R 2223	S 1202 R 2334	S 1236	R 0034 S 1327	R 0055 S 1316
06	S 0704 R 1835	S 0743 R 1949	S 0620 R 1834	S 0650 R 1948	S 0659 R 2023	S 0830 R 2149	S 0922 R 2209	S 1114 R 2309	S 1258	R 0006 S 1324	R 0124 S 1404	R 0143 S 1353
07	S 0747 R 1926	S 0819 R 2037	S 0656 R 1922	S 0731 R 2040	S 0749 R 2117	S 0929 R 2238	S 1022 R 2254	S 1213 R 2357	R 0026 S 1351	R 0058 S 1407	R 0213 S 1441	R 0232 S 1430
08	S 0828 R 2016	S 0856 R 2126	S 0733 R 2011	S 0815 R 2133	S 0842 R 2210	S 1029 R 2325	S 1122 R 2339	S 1311	R 0118 S 1440	R 0149 S 1448	R 0301 S 1517	R 0321 S 1509
09	S 0906 R 2105	S 0932 R 2215	S 0811 R 2101	S 0902 R 2227	S 0938	S 1128	S 1221	R 0046 S 1408	R 0210 S 1526	R 0239 S 1527	R 0349 S 1554	R 0412 S 1550
10	S 0943 R 2154	S 1010 R 2305	S 0850 R 2152	S 0952 R 2320	S 1035 R 2351	R 0010 S 1227	R 0024 S 1320	R 0137 S 1502	R 0302 S 1608	R 0328 S 1604	R 0438 S 1632	R 0504 S 1635
11	S 1019 R 2242	S 1050 R 2357	S 0931 R 2244	S 1046	S 1134	R 0054 S 1327	R 0110 S 1418	R 0229 S 1553	R 0352 S 1649	R 0417 S 1641	R 0528 S 1712	R 0556 S 1722
12	S 1056 R 2331	S 1134 R 0051	S 1016 R 2338	S 1143 R 0104	S 1234 R 0125	R 0039 S 1426	R 0139 S 1516	R 0158 S 1642	R 0321 S 1727	R 0442 S 1717	R 0505 S 1754	R 0619 S 1814
13	S 1133 R 0021	S 1221 R 0146	S 1105 R 0032	S 1241 R 0154	S 1334 R 0211	R 0125 S 1526	R 0225 S 1612	R 0248 S 1727	R 0414 S 1804	R 0531 S 1754	R 0554 S 1839	R 0742 S 1908
14	S 1212 R 0113	S 1312 R 0242	S 1157 R 0126	S 1342 R 0243	S 1434 R 0256	R 0211 S 1724	R 0313 S 1758	R 0340 S 1849	R 0505 S 1917	R 0620 S 1913	R 0643 S 2019	R 0834 S 2101
15	S 1254 R 0208	S 1408 R 0338	S 1253 R 0220	S 1443 R 0330	S 1535 R 0343	R 0402 S 1724	R 0433 S 1758	R 0556 S 1849	R 0708 S 1917	R 0732 S 1913	R 0855 S 2019	R 0923 S 2101
16	S 1341 R 0304	S 1508 R 0434	S 1352 R 0312	S 1545 R 0417	S 1636 R 0431	R 0454 S 1821	R 0526 S 1845	R 0646 S 1927	R 0757 S 1954	R 0823 S 1956	R 0946 S 2113	R 1011 S 2159
17	S 1431 R 0401	S 1611 R 0527	S 1454 R 0403	S 1648 R 0505	S 1737 R 0520	R 0548 S 1914	R 0620 S 1930	R 0735 S 2003	R 0846 S 2033	R 0914 S 2042	R 1036 S 2209	R 1056 S 2258
18	S 1527 R 0401	S 1715 R 0527	S 1557 R 0403	S 1751 R 0505	S 1838 R 0520	R 0642 S 2005	R 0712 S 2011	R 0824 S 2040	R 0936 S 2114	R 1006 S 2131	R 1124 S 2306	R 1141 S 2356
19	S 1627 R 0459	S 1820 R 0619	S 1701 R 0453	S 1854 R 0553	S 1937 R 0612	R 0736 S 2051	R 0802 S 2050	R 0912 S 2116	R 1027 S 2158	R 1058 S 2223	R 1211	R 1225
20	S 1730 R 0556	S 1925 R 0708	S 1805 R 0542	S 1955 R 0643	S 2033 R 0706	R 0828 S 2134	R 0852 S 2128	R 1001 S 2154	R 1118 S 2245	R 1149 S 2318	S 0004 R 1257	S 0055 R 1310
21	S 1834 R 0651	S 2028 R 0756	S 1909 R 0630	S 2055 R 0734	S 2125 R 0800	R 0920 S 2214	R 0941 S 2204	R 1050 S 2234	R 1211 S 2336	R 1239	S 0103 R 1342	S 0155 R 1356
22	S 1938 R 0743	S 2130 R 0843	S 2012 R 0718	S 2152 R 0826	S 2213 R 0854	R 1010 S 2252	R 1029 S 2240	R 1141 S 2316	R 1303	S 0015 R 1327	S 0203 R 1427	S 0255 R 1444
23	S 1938 R 0833	S 2130 R 0930	S 2012 R 0807	S 2152 R 0920	S 2213 R 0947	R 1010 S 2252	R 1029 S 2240	R 1141 S 2316	R 1303	S 0015 R 1327	S 0203 R 1427	S 0255 R 1444
24	S 2042 R 0920	S 2230 R 1018	S 2114 R 0857	S 2245 R 1013	S 2257 R 1038	R 1148	R 1207	R 1233	R 1355	R 1415	R 1514	R 1535
25	S 2143 R 1005	S 2329 R 1106	S 2213 R 0947	S 2335 R 1105	S 2339 R 1129	R 1236	R 1258	R 1326	R 1447	R 1502	R 1603	R 1629
26	S 2244 R 1050	S 2310 R 1106	S 2310	S 2310	S 2310	R 1236	R 1258	R 1326	R 1447	R 1502	R 1603	R 1629
26	S 2342 R 1136	S 0025 R 1155	R 1039	S 0020 R 1157	S 0017 R 1218	S 0042 R 1326	S 0038 R 1350	S 0146 R 1515	S 0330 R 1626	S 0419 R 1637	S 0613 R 1748	S 0653 R 1821
27	S 0040 R 1222	S 0210 R 1336	S 0004 R 1130	S 0102 R 1247	S 0054 R 1306	S 0120 R 1416	S 0123 R 1444	S 0244 R 1608	S 0433 R 1715	S 0523 R 1727	S 0714 R 1844	S 0745 R 1918
28	S 0136 R 1309	S 0210 R 1336	S 0054 R 1222	S 0142 R 1336	S 0131 R 1355	S 0201 R 1509	S 0212 R 1540	S 0345 R 1700	S 0538 R 1803	S 0627 R 1818	S 0812 R 1941	S 0833 R 2013
29	S 0231 R 1358	S 0224 R 1403	S 0141 R 1313	S 0219 R 1425	S 0207 R 1444	S 0245 R 1603	S 0305 R 1635	S 0448 R 1751	S 0642 R 1852	S 0731 R 1911	S 0907 R 2037	S 0918 R 2106
30	S 0323 R 1448	S 0304 R 1452	S 0224 R 1403	S 0256 R 1513	S 0245 R 1535	S 0332 R 1658	S 0402 R 1730	S 0552 R 1840	S 0746 R 1942	S 0833 R 2005	S 0956 R 2132	S 0959 R 2157
31	S 0323 R 1448	S 0304 R 1452	S 0224 R 1403	S 0256 R 1513	S 0245 R 1535	S 0332 R 1658	S 0402 R 1730	S 0552 R 1840	S 0746 R 1942	S 0833 R 2005	S 0956 R 2132	S 0959 R 2157

# TIMES OF MOONRISE AND MOONSET – TOWNSVILLE 2015

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	S 0252 R 1435	S 0420 R 1552	S 0305 R 1439	S 0352 R 1552	S 0342 R 1612	S 0419 R 1728	S 0437 R 1801	S 0617 R 1923	S 0809 R 2027	S 0857 R 2045	S 1034 R 2209	S 1050 R 2237
02	S 0348 R 1524	S 0508 R 1643	S 0351 R 1529	S 0429 R 1640	S 0420 R 1701	S 0505 R 1822	S 0533 R 1856	S 0720 R 2012	S 0911 R 2115	S 0958 R 2138	S 1125 R 2303	S 1132 R 2328
03	S 0442 R 1614	S 0552 R 1733	S 0433 R 1619	S 0506 R 1728	S 0459 R 1751	S 0555 R 1917	S 0631 R 1950	S 0822 R 2100	S 1012 R 2205	S 1057 R 2232	S 1212 R 2355	S 1212
04	S 0534 R 1705	S 0634 R 1822	S 0513 R 1708	S 0544 R 1817	S 0540 R 1843	S 0648 R 2012	S 0731 R 2042	S 0923 R 2147	S 1112 R 2255	S 1152 R 2325	S 1255	R 0017 S 1249
05	S 0624 R 1757	S 0714 R 1911	S 0552 R 1756	S 0621 R 1906	S 0624 R 1936	S 0744 R 2106	S 0832 R 2131	S 1023 R 2234	S 1210 R 2346	S 1243	R 0046 S 1335	R 0105 S 1326
06	S 0711 R 1848	S 0752 R 1959	S 0629 R 1844	S 0701 R 1957	S 0711 R 2030	S 0842 R 2157	S 0933 R 2218	S 1123 R 2321	S 1305	R 0018 S 1331	R 0135 S 1413	R 0153 S 1403
07	S 0755 R 1938	S 0829 R 2047	S 0706 R 1932	S 0743 R 2048	S 0801 R 2124	S 0941 R 2246	S 1032 R 2304	S 1221 R 2350	R 0038 S 1358	R 0110 S 1415	R 0223 S 1451	R 0241 S 1441
08	S 0836 R 2028	S 0906 R 2135	S 0743 R 2020	S 0827 R 2141	S 0855 R 2217	S 1040 R 2334	S 1131 R 2350	R 0009 S 1319	R 0131 S 1447	R 0201 S 1457	R 0311 S 1527	R 0330 S 1520
09	S 0915 R 2116	S 0943 R 2224	S 0822 R 2110	S 0914 R 2234	S 0950 R 2309	S 1139 R 2350	S 1230	S 1415	R 0059 S 1533	R 0223 S 1536	R 0359 S 1605	R 0420 S 1602
10	S 0952 R 2204	S 1021 R 2314	S 0901 R 2200	S 1005 R 2327	S 1048 R 2359	R 0019 S 1238	R 0035 S 1328	R 0149 S 1509	R 0314 S 1616	R 0339 S 1614	R 0447 S 1643	R 0511 S 1647
11	S 1029 R 2252	S 1102	R 2252	S 0943	S 1059	R 0104 S 1336	R 0122 S 1426	R 0241 S 1601	R 0404 S 1657	R 0427 S 1651	R 0536 S 1723	R 0604 S 1735
12	S 1106 R 2340	R 0005 S 1146	S 1029 R 2345	R 0020 S 1155	R 0047 S 1245	R 0150 S 1435	R 0211 S 1523	R 0334 S 1649	R 0454 S 1736	R 0515 S 1728	R 0627 S 1806	R 0656 S 1826
13	S 1144	R 0058	S 1117	R 0112	S 1254	R 0134 S 1344	R 0236 S 1534	R 0301 S 1620	R 0426 S 1735	R 0542 S 1813	R 0603 S 1805	R 0749 S 1852
14	R 0030 S 1224	R 0153 S 1325	R 0039 S 1210	R 0202 S 1354	R 0220 S 1444	R 0325 S 1633	R 0353 S 1714	R 0517 S 1817	R 0630 S 1850	R 0651 S 1844	R 0810 S 1941	R 0841 S 2016
15	R 0121 S 1307	R 0249 S 1421	R 0133 S 1306	R 0251 S 1454	R 0307 S 1544	R 0415 S 1731	R 0446 S 1805	R 0608 S 1857	R 0718 S 1927	R 0741 S 1925	R 0902 S 2032	R 0931 S 2113
16	R 0215 S 1353	R 0345 S 1521	R 0227 S 1405	R 0339 S 1556	R 0354 S 1645	R 0507 S 1828	R 0539 S 1853	R 0657 S 1936	R 0806 S 2005	R 0831 S 2008	R 0953 S 2126	R 1019 S 2211
17	R 0311 S 1444	R 0441 S 1623	R 0320 S 1506	R 0427 S 1658	R 0442 S 1745	R 0601 S 1921	R 0632 S 1938	R 0746 S 2013	R 0854 S 2044	R 0922 S 2054	R 1043 S 2221	R 1105 S 2308
18	R 0408 S 1540	R 0535 S 1727	R 0412 S 1609	R 0515 S 1800	R 0533 S 1845	R 0655 S 2012	R 0723 S 2020	R 0834 S 2050	R 0944 S 2126	R 1013 S 2143	R 1132 S 2318	R 1150
19	R 0506 S 1640	R 0627 S 1831	R 0502 S 1712	R 0604 S 1902	R 0625 S 1944	R 0748 S 2059	R 0814 S 2059	R 0921 S 2127	R 1034 S 2210	R 1105 S 2236	R 1219	S 0006 R 1235
20	R 0604 S 1742	R 0717 S 1935	R 0551 S 1815	R 0655 S 2003	R 0719 S 2040	R 0841 S 2142	R 0903 S 2137	R 1010 S 2205	R 1126 S 2258	R 1156 S 2330	S 0015 R 1305	S 0105 R 1320
21	R 0659 S 1846	R 0806 S 2038	R 0640 S 1918	R 0746 S 2102	R 0813 S 2132	R 0932 S 2223	R 0951 S 2214	R 1059 S 2246	R 1218 S 2348	R 1246	S 0114 R 1351	S 0204 R 1407
22	R 0752 S 1950	R 0854 S 2139	R 0729 S 2021	R 0839 S 2159	R 0906 S 2220	R 1021 S 2301	R 1039 S 2251	R 1149 S 2329	R 1310	S 0027 R 1335	S 0213 R 1438	S 0304 R 1456
23	R 0842 S 2052	R 0942 S 2238	R 0819 S 2122	R 0932 S 2252	R 0959 S 2305	R 1110 S 2339	R 1127 S 2328	R 1241	S 0043 R 1403	S 0126 R 1424	S 0314 R 1525	S 0404 R 1548
24	R 0929 S 2153	R 1030 S 2337	R 0909 S 2221	R 1025 S 2342	R 1050 S 2347	R 1157	R 1216	S 0015 R 1334	S 0140 R 1454	S 0226 R 1511	S 0415 R 1615	S 0505 R 1642
25	R 1016 S 2253	R 1118	R 1000 S 2317	R 1118	R 1140	S 0015 R 1246	S 0008 R 1306	S 0105 R 1428	S 0240 R 1545	S 0327 R 1559	S 0518 R 1707	S 0603 R 1738
26	R 1101 S 2351	S 0033 R 1208	R 1051	S 0028 R 1209	S 0026 R 1229	S 0053 R 1334	S 0050 R 1358	S 0159 R 1522	S 0342 R 1635	S 0429 R 1648	S 0620 R 1801	S 0700 R 1834
27	R 1147	S 0126 R 1258	S 0011 R 1143	S 0110 R 1258	S 0104 R 1317	S 0132 R 1425	S 0135 R 1452	S 0257 R 1616	S 0444 R 1724	S 0532 R 1738	S 0721 R 1857	S 0752 R 1930
28	S 0048 R 1234	S 0217 R 1349	S 0101 R 1235	S 0150 R 1347	S 0141 R 1405	S 0213 R 1516	S 0224 R 1547	S 0358 R 1708	S 0548 R 1813	S 0636 R 1830	S 0819 R 1954	S 0841 R 2025
29	S 0144 R 1322	S 0148	S 0148 R 1325	S 0228 R 1435	S 0218 R 1453	S 0257 R 1610	S 0318 R 1642	S 0500 R 1800	S 0651 R 1903	S 0739 R 1923	S 0914 R 2050	S 0926 R 2117
30	S 0238 R 1411	S 0232	S 0232 R 1415	S 0305 R 1523	S 0256 R 1543	S 0345 R 1705	S 0415 R 1737	S 0603 R 1849	S 0755 R 1954	S 0841 R 2018	S 1004 R 2144	S 1007 R 2208
31	S 0330 R 1501	S 0313	S 0313 R 1504	S 0336	R 1635	S 0515 R 1831	S 0706 R 1938	S 0939	S 0939	R 2114	S 1046 R 2257	S 1046 R 2257

# TIMES OF MOONRISE AND MOONSET – CAIRNS 2015

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	S 0254 R 1442	S 0421 R 1600	S 0306 R 1447	S 0354 R 1558	S 0347 R 1615	S 0426 R 1729	S 0445 R 1802	S 0624 R 1925	S 0813 R 2032	S 0859 R 2053	S 1035 R 2217	S 1052 R 2244
02	S 0349 R 1531	S 0509 R 1650	S 0352 R 1537	S 0433 R 1645	S 0425 R 1704	S 0512 R 1823	S 0541 R 1857	S 0726 R 2015	S 0914 R 2121	S 0959 R 2146	S 1126 R 2310	S 1134 R 2334
03	S 0443 R 1622	S 0554 R 1740	S 0435 R 1625	S 0510 R 1732	S 0505 R 1753	S 0602 R 1918	S 0639 R 1952	S 0827 R 2104	S 1014 R 2212	S 1058 R 2239	S 1213 R 2333	S 1215 R 0022
04	S 0535 R 1713	S 0636 R 1829	S 0516 R 1714	S 0548 R 1820	S 0547 R 1845	S 0656 R 2013	S 0739 R 2044	S 0927 R 2152	S 1113 R 2302	S 1153 R 2333	R 0002 S 1257	R 0022 S 1253
05	S 0625 R 1804	S 0716 R 1917	S 0555 R 1801	S 0627 R 1909	S 0631 R 1937	S 0752 R 2107	S 0839 R 2134	S 1027 R 2239	S 1211 R 2354	S 1244 R 0026	S 1338 R 0140	S 1331 R 0157
06	S 0712 R 1855	S 0755 R 2004	S 0633 R 1848	S 0707 R 1959	S 0719 R 2031	S 0850 R 2159	S 0938 R 2222	S 1125 R 2327	S 1306 R 0046	S 1332 R 0117	S 1417 R 0228	S 1408 R 0244
07	S 0756 R 1945	S 0833 R 2052	S 0711 R 1936	S 0749 R 2050	S 0809 R 2125	S 0948 R 2249	S 1037 R 2309	S 1223 R 0016	S 1358 R 0138	S 1417 R 0208	S 1455 R 0315	S 1447 R 0332
08	S 0838 R 2034	S 0910 R 2139	S 0749 R 2024	S 0834 R 2142	S 0903 R 2218	S 1046 R 2336	S 1135 R 2355	R 0016 S 1320	R 0138 S 1448	R 0208 S 1459	R 0315 S 1532	R 0332 S 1527
09	S 0918 R 2122	S 0948 R 2227	S 0827 R 2112	S 0922 R 2235	S 0958 R 2310	S 1144 R 0023	S 1233 R 0041	S 1416 R 0157	S 1534 R 0321	S 1539 R 0344	S 1610 R 0450	S 1609 R 0512
10	S 0956 R 2209	S 1027 R 2316	S 0908 R 2202	S 1013 R 2328	S 1055 R 0001	S 1242 R 0109	S 1331 R 0129	S 1510 R 0249	S 1618 R 0411	S 1617 R 0432	S 1649 R 0539	S 1655 R 0605
11	S 1033 R 2256	S 1109 R 2253	S 0950 R 2253	S 1107 R 0021	S 1153 R 0050	S 1340 R 0155	S 1428 R 0218	S 1601 R 0342	S 1659 R 0459	S 1655 R 0519	S 1730 R 0628	S 1743 R 0657
12	S 1111 R 2344	R 0007 S 1153	S 1036 R 2346	S 1203 R 0113	S 1251 R 0138	S 1438 R 0243	S 1525 R 0309	S 1650 R 0433	S 1739 R 0547	S 1733 R 0606	S 1814 R 0719	S 1834 R 0750
13	S 1149 R 0033	S 1241 R 0154	S 1125 R 0040	S 1301 R 0204	S 1350 R 0224	S 1536 R 0331	S 1620 R 0401	S 1736 R 0524	S 1817 R 0634	S 1811 R 0654	S 1900 R 0811	S 1928 R 0842
14	S 1230 R 0123	S 1333 R 0250	S 1218 R 0134	S 1400 R 0254	S 1448 R 0312	S 1634 R 0422	S 1714 R 0454	S 1819 R 0614	S 1855 R 0722	S 1850 R 0743	S 1948 R 0903	S 2024 R 0932
15	S 1313 R 0217	S 1429 R 0346	S 1313 R 0228	S 1500 R 0343	S 1547 R 0359	S 1732 R 0515	S 1806 R 0547	S 1900 R 0703	S 1932 R 0809	S 1932 R 0832	S 2040 R 0954	S 2120 R 1021
16	S 1401 R 0312	S 1528 R 0442	S 1412 R 0321	S 1600 R 0432	S 1647 R 0449	S 1828 R 0608	S 1854 R 0639	S 1939 R 0751	S 2011 R 0857	S 2016 R 0923	S 2133 R 1045	S 2217 R 1108
17	S 1452 R 0409	S 1630 R 0537	S 1513 R 0414	S 1701 R 0520	S 1747 R 0540	S 1922 R 0702	S 1939 R 0730	S 2017 R 0838	S 2051 R 0946	S 2102 R 1014	S 2228 R 1134	S 2314 R 1154
18	S 1548 R 0507	S 1734 R 0630	S 1615 R 0505	S 1803 R 0610	S 1847 R 0633	S 2013 R 0756	S 2022 R 0820	S 2055 R 0925	S 2133 R 1036	S 2151 R 1106	S 2325 R 1222	S 2325 R 0011
19	S 1648 R 0605	S 1837 R 0721	S 1717 R 0555	S 1904 R 0701	S 1945 R 0726	S 2100 R 0848	S 2102 R 0908	S 2133 R 1012	S 2218 R 1127	S 2243 R 1157	R 1222 S 0021	R 1239 S 0108
20	S 1750 R 0701	S 1940 R 0811	S 1820 R 0645	S 2004 R 0754	S 2041 R 0821	S 2144 R 0938	S 2140 R 0956	S 2211 R 1101	S 2305 R 1219	S 2338 R 1247	R 1309 S 0119	R 1326 S 0207
21	S 1853 R 0754	S 2041 R 0859	S 1922 R 0735	S 2103 R 0847	S 2133 R 0914	S 2225 R 1027	S 2218 R 1043	S 2252 R 1151	S 2356 R 1311	S 2356 R 1311	R 1355 S 0218	R 1413 S 0306
22	S 1956 R 0845	S 2142 R 0948	S 2023 R 0825	S 2200 R 0940	S 2222 R 1006	S 2305 R 1115	S 2256 R 1130	S 2336 R 1242	R 1311 S 0051	R 1311 S 0132	R 1442 S 0317	R 1503 S 0406
23	S 2057 R 0933	S 2241 R 1036	S 2123 R 0916	S 2253 R 1033	S 2307 R 1057	S 2342 R 1202	S 2334 R 1218	R 1404 S 0022	R 1426 S 0148	R 1531 S 0231	R 1555 S 0418	R 1555 S 0506
24	S 2158 R 1021	S 2338 R 1126	S 2222 R 1007	S 2343 R 1125	S 2349 R 1146	S 0020 R 1249	S 0014 R 1308	R 1334 S 0113	R 1456 S 0247	R 1515 S 0332	R 1621 S 0520	R 1650 S 0604
25	S 2256 R 1107	S 0034 R 1216	S 2318 R 1059	S 0029 R 1216	S 0029 R 1234	S 0058 R 1337	S 0057 R 1359	S 0207 R 1523	S 0348 R 1638	S 0433 R 1653	S 0621 R 1809	S 0701 R 1842
26	S 2354 R 1154	R 1216 S 0127	R 1216 S 0012	R 1234 S 0112	R 1337 S 0107	R 1359 S 0138	R 1427 S 0143	R 1523 S 0305	R 1638 S 0450	R 1653 S 0535	R 1809 S 0722	R 1842 S 0753
27	R 1216 S 0127	R 1306 S 0218	R 1151 S 0102	R 1305 S 0153	R 1321 S 0145	R 1427 S 0219	R 1453 S 0232	R 1617 S 0405	R 1728 S 0552	R 1744 S 0638	R 1905 S 0820	R 1938 S 0842
28	S 0050 R 1241	R 1357 S 0218	R 1242 S 0149	R 1353 S 0231	R 1409 S 0223	R 1518 S 0304	R 1547 S 0326	R 1710 S 0506	R 1818 S 0655	R 1837 S 0740	R 2001 S 0915	R 2032 S 0928
29	S 0145 R 1329	S 0218 R 1357	S 0149 R 1333	S 0231 R 1440	S 0223 R 1457	S 0304 R 1611	S 0326 R 1643	S 0506 R 1802	S 0655 R 1909	S 0740 R 1931	S 0915 R 2057	S 0928 R 2124
30	S 0239 R 1419	S 0315 R 1422	S 0233 R 1422	S 0309 R 1528	S 0302 R 1546	S 0353 R 1706	S 0423 R 1738	S 0609 R 1853	S 0757 R 2000	S 0842 R 2026	S 1005 R 2151	S 1010 R 2214
31	S 0331 R 1509	S 0315 R 1510	S 0315 R 1510	S 0342 R 1637	S 0342 R 1637	S 0523 R 1833	S 0523 R 1833	S 0711 R 1943	S 0940 R 2122	S 0940 R 2122	S 1050 R 2302	S 1050 R 2302



# TIMES OF MOONRISE AND MOONSET – WEIPA 2015

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	S 0305 R 1504	S 0431 R 1622	S 0317 R 1509	S 0408 R 1616	S 0404 R 1630	S 0447 R 1740	S 0507 R 1812	S 0645 R 1937	S 0828 R 2050	S 0911 R 2114	S 1045 R 2239	S 1103 R 2304
02	S 0400 R 1554	S 0519 R 1712	S 0403 R 1558	S 0447 R 1702	S 0443 R 1718	S 0534 R 1833	S 0603 R 1908	S 0745 R 2029	S 0928 R 2141	S 1010 R 2208	S 1137 R 2332	S 1147 R 2353
03	S 0453 R 1644	S 0605 R 1801	S 0446 R 1646	S 0526 R 1748	S 0524 R 1806	S 0625 R 1928	S 0701 R 2002	S 0845 R 2120	S 1027 R 2232	S 1108 R 2302	S 1225 R 0023	S 1229 R 0040
04	S 0545 R 1735	S 0648 R 1849	S 0528 R 1733	S 0605 R 1835	S 0607 R 1856	S 0718 R 2023	S 0800 R 2056	S 0943 R 2209	S 1125 R 2324	S 1203 R 2355	S 1309 R 0012	S 1308 R 0126
05	S 0635 R 1826	S 0729 R 1936	S 0609 R 1819	S 0645 R 1922	S 0652 R 1948	S 0814 R 2117	S 0859 R 2147	S 1041 R 2258	S 1221 R 0016	S 1254 R 0048	S 1351 R 0159	S 1347 R 0212
06	S 0723 R 1917	S 0809 R 2022	S 0648 R 1905	S 0727 R 2011	S 0741 R 2041	S 0911 R 2210	S 0957 R 2236	S 1139 R 2347	R 0016 S 1316	R 0048 S 1343	R 0159 S 1431	R 0212 S 1426
07	S 0808 R 2006	S 0848 R 2108	S 0727 R 1951	S 0810 R 2101	S 0832 R 2135	S 1009 R 2301	S 1054 R 2325	S 1235 R 0037	R 0109 S 1409	R 0139 S 1429	R 0245 S 1510	R 0258 S 1506
08	S 0850 R 2053	S 0927 R 2154	S 0806 R 2038	S 0856 R 2152	S 0925 R 2228	S 1106 R 2350	S 1151 R 0012	S 1331 R 0128	R 0201 S 1458	R 0228 S 1511	R 0331 S 1549	R 0345 S 1547
09	S 0931 R 2140	S 1006 R 2241	S 0846 R 2125	S 0944 R 2245	S 1020 R 2321	S 1203 R 0038	S 1247 R 0100	S 1426 R 0220	R 0252 S 1545	R 0316 S 1552	R 0417 S 1628	R 0433 S 1630
10	S 1010 R 2226	S 1047 R 2328	S 0928 R 2214	S 1035 R 2338	S 1035 R 2338	S 1259 R 0126	S 1343 R 0149	S 1520 R 0312	R 0342 S 1630	R 0402 S 1632	R 0503 S 1708	R 0523 S 1716
11	S 1049 R 2312	S 1129 R 0018	S 1011 R 2304	S 1129 R 0031	S 1213 R 0103	S 1355 R 0213	S 1439 R 0239	S 1612 R 0404	R 0431 S 1712	R 0448 S 1711	R 0551 S 1751	R 0615 S 1805
12	S 1128 R 2358	S 1214 R 0110	S 1058 R 2356	S 1225 R 0124	S 1310 R 0152	S 1451 R 0302	S 1535 R 0331	S 1701 R 0455	R 0518 S 1753	R 0534 S 1750	R 0640 S 1835	R 0707 S 1857
13	S 1208 R 0046	S 1303 R 0204	S 1147 R 0050	S 1322 R 0216	S 1407 R 0240	S 1548 R 0352	S 1631 R 0423	S 1747 R 0545	R 0605 S 1832	R 0620 S 1829	R 0730 S 1922	R 0800 S 1951
14	S 1250 R 0136	S 1355 R 0300	S 1240 R 0144	S 1420 R 0307	S 1504 R 0329	S 1646 R 0444	S 1724 R 0516	S 1831 R 0634	R 0651 S 1911	R 0707 S 1910	R 0821 S 2011	R 0852 S 2046
15	S 1334 R 0228	S 1451 R 0356	S 1336 R 0238	S 1519 R 0358	S 1602 R 0418	S 1743 R 0537	S 1816 R 0609	S 1913 R 0721	R 0737 S 1950	R 0755 S 1952	R 0913 S 2102	R 0943 S 2141
16	S 1422 R 0322	S 1551 R 0453	S 1434 R 0333	S 1617 R 0448	S 1700 R 0509	S 1838 R 0631	S 1905 R 0700	S 1954 R 0808	R 0651 S 2030	R 0707 S 2037	R 0821 S 2156	R 0852 S 2237
17	S 1515 R 0419	S 1652 R 0549	S 1534 R 0426	S 1717 R 0538	S 1759 R 0601	S 1932 R 0725	S 1951 R 0750	S 2033 R 0854	R 0737 S 2111	R 0755 S 2124	R 0913 S 2250	R 0943 S 2332
18	S 1611 R 0517	S 1754 R 0643	S 1634 R 0519	S 1817 R 0630	S 1858 R 0655	S 2023 R 0817	S 2034 R 0839	S 2112 R 0940	R 0823 S 2154	R 0843 S 2214	R 1004 S 2345	R 1033 S 0028
19	S 1710 R 0615	S 1856 R 0736	S 1735 R 0611	S 1916 R 0722	S 1955 R 0749	S 2111 R 0909	S 2116 R 0926	S 2151 R 1026	R 0940 S 2239	R 1047 S 2306	R 1234 S 0041	R 1256 S 0124
20	S 1812 R 0712	S 1957 R 0827	S 1836 R 0702	S 2016 R 0815	S 2051 R 0843	S 2156 R 0958	S 2155 R 1012	S 2231 R 1113	R 1026 S 2328	R 1137 S 2359	R 1207 S 00137	R 1258 S 0221
21	S 1914 R 0807	S 2057 R 0917	S 1936 R 0754	S 2114 R 0909	S 2143 R 0936	S 2238 R 1046	S 2234 R 1058	S 2313 R 1202	R 1229 S 0019	R 1258 S 0055	R 1411 S 0234	R 1433 S 0318
22	S 2015 R 0859	S 2155 R 1007	S 2036 R 0845	S 2210 R 1003	S 2232 R 1028	S 2319 R 1132	S 2313 R 1144	S 2357 R 1252	R 1321 S 0113	R 1349 S 0152	R 1459 S 0332	R 1524 S 0417
23	S 2115 R 0949	S 2253 R 1057	S 2135 R 0937	S 2303 R 1056	S 2318 R 1117	S 2358 R 1218	S 2353 R 1231	R 1252 S 0044	R 1414 S 0209	R 1439 S 0250	R 1549 S 0431	R 1617 S 0516
24	S 2214 R 1038	S 2349 R 1147	S 2233 R 1029	S 2353 R 1147	S 2353 R 1147	S 0002 R 1205	S 0037 R 1304	R 1345 S 0135	R 1507 S 0308	R 1529 S 0349	R 1641 S 0532	R 1712 S 0614
25	S 2311 R 1126	S 0044 R 1238	S 2329 R 1122	S 0040 R 1237	S 0042 R 1252	S 0116 R 1351	S 0118 R 1410	R 1320 S 0230	R 1438 S 0407	R 1600 S 0448	R 1735 S 0632	R 1808 S 0711
26	S 0007 R 1214	S 0137 R 1329	S 0022 R 1213	S 0124 R 1325	S 0122 R 1338	S 0157 R 1439	S 0204 R 1503	S 0327 R 1628	R 1252 S 0507	R 1414 S 0549	R 1549 S 0732	R 1617 S 0804
27	S 0102 R 1302	S 0228 R 1419	S 0112 R 1304	S 0206 R 1412	S 0201 R 1424	S 0240 R 1530	S 0255 R 1557	S 0426 R 1722	R 1229 S 0608	R 1258 S 0650	R 1411 S 0830	R 1433 S 0854
28	S 0156 R 1351	S 0249 R 1441	S 0200 R 1354	S 0245 R 1458	S 0240 R 1511	S 0325 R 1622	S 0348 R 1653	S 0526 R 1815	R 1229 S 0709	R 1258 S 0752	R 1411 S 0925	R 1433 S 0940
29	S 0249 R 1441	S 0341 R 1532	S 0245 R 1442	S 0325 R 1544	S 0320 R 1559	S 0415 R 1716	S 0445 R 1749	S 0627 R 1908	R 1229 S 0810	R 1258 S 0852	R 1411 S 1016	R 1433 S 1023
30	S 0341 R 1532	S 0402 R 1649	S 0327 R 1530	S 0402 R 1649	S 0402 R 1649	S 0545 R 1844	S 0728 R 1959	S 0950 R 2144	R 2020 S 0950	R 2048 S 0950	R 2213 S 1104	R 2232 S 1104
31	S 0341 R 1532	S 0402 R 1649	S 0327 R 1530	S 0402 R 1649	S 0402 R 1649	S 0545 R 1844	S 0728 R 1959	S 0950 R 2144	R 2020 S 0950	R 2048 S 0950	R 2213 S 1104	R 2232 S 1104

# TIMES OF MOONRISE AND MOONSET – KARUMBA 2015

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	S 0315 R 1502	S 0442 R 1619	S 0328 R 1507	S 0415 R 1618	S 0407 R 1636	S 0446 R 1750	S 0504 R 1823	S 0644 R 1946	S 0834 R 2052	S 0920 R 2112	S 1057 R 2236	S 1113 R 2304
02	S 0410 R 1551	S 0530 R 1710	S 0413 R 1556	S 0453 R 1705	S 0445 R 1725	S 0532 R 1844	S 0600 R 1919	S 0746 R 2036	S 0935 R 2142	S 1021 R 2206	S 1148 R 2330	S 1155 R 2354
03	S 0504 R 1641	S 0615 R 1800	S 0456 R 1645	S 0531 R 1753	S 0525 R 1814	S 0622 R 1939	S 0659 R 2013	S 0847 R 2125	S 1035 R 2231	S 1119 R 2259	S 1234 R 0022	S 1235 R 0042
04	S 0556 R 1733	S 0657 R 1849	S 0537 R 1734	S 0609 R 1841	S 0607 R 1906	S 0716 R 2034	S 0759 R 2105	S 0948 R 2212	S 1135 R 2322	S 1214 R 2353	S 1318 R 0012	S 1314 R 0130
05	S 0646 R 1824	S 0737 R 1937	S 0616 R 1821	S 0647 R 1930	S 0651 R 1959	S 0812 R 2128	S 0859 R 2155	S 1047 R 2300	S 1232 R 0014	S 1306 R 0045	S 1359 R 0201	S 1351 R 0217
06	S 0733 R 1915	S 0816 R 2025	S 0653 R 1909	S 0727 R 2020	S 0738 R 2052	S 0909 R 2220	S 0959 R 2243	S 1146 R 2347	R 0014 S 1327	R 0045 S 1353	R 0201 S 1437	R 0217 S 1428
07	S 0817 R 2005	S 0853 R 2112	S 0731 R 1956	S 0809 R 2111	S 0829 R 2146	S 1008 R 2310	S 1058 R 2329	S 1244 R 0015	R 0106 S 1420	R 0137 S 1438	R 0248 S 1515	R 0305 S 1507
08	S 0859 R 2054	S 0931 R 2159	S 0809 R 2044	S 0854 R 2203	S 0922 R 2240	S 1107 R 2357	S 1156 R 0015	S 1342 R 0036	S 1509 R 0158	S 1520 R 0227	S 1552 R 0335	S 1547 R 0353
09	S 0938 R 2142	S 1008 R 2248	S 0847 R 2133	S 0942 R 2256	S 1018 R 2332	S 1205 R 0044	S 1254 R 0101	S 1437 R 0217	S 1556 R 0316	S 1559 R 0423	S 1630 R 0511	S 1629 R 0534
10	S 1016 R 2229	S 1047 R 2337	S 0928 R 2223	S 1033 R 2350	S 1115 R 0022	S 1303 R 0129	S 1352 R 0149	S 1531 R 0309	S 1639 R 0431	S 1638 R 0452	S 1709 R 0600	S 1714 R 0626
11	S 1054 R 2316	S 1129 R 0028	S 1010 R 2314	S 1126 R 0043	S 1213 R 0111	S 1401 R 0215	S 1449 R 0238	S 1623 R 0401	S 1720 R 0519	S 1715 R 0539	S 1750 R 0650	S 1803 R 0719
12	S 1131 R 0004	S 1213 R 0121	S 1056 R 0007	S 1223 R 0135	S 1311 R 0158	S 1459 R 0303	S 1546 R 0328	S 1711 R 0453	S 1759 R 0607	S 1753 R 0627	S 1833 R 0741	S 1854 R 0811
13	S 1209 R 0054	S 1300 R 0215	S 1145 R 0101	S 1321 R 0225	S 1410 R 0245	S 1557 R 0351	S 1642 R 0420	S 1757 R 0544	S 1837 R 0655	S 1831 R 0715	S 1919 R 0832	S 1948 R 0903
14	S 1250 R 0145	S 1352 R 0311	S 1237 R 0155	S 1420 R 0315	S 1509 R 0332	S 1656 R 0442	S 1736 R 0513	S 1840 R 0634	S 1915 R 0742	S 1910 R 0804	S 2008 R 0924	S 2044 R 0953
15	S 1333 R 0238	S 1449 R 0408	S 1333 R 0249	S 1520 R 0404	S 1608 R 0420	S 1754 R 0534	S 1827 R 0607	S 1921 R 0723	S 1952 R 0830	S 1952 R 0853	S 2059 R 1016	S 2140 R 1042
16	S 1420 R 0333	S 1548 R 0504	S 1432 R 0343	S 1621 R 0452	S 1708 R 0509	S 1850 R 0628	S 1915 R 0659	S 2000 R 0811	S 2031 R 0918	S 2035 R 0944	S 2153 R 1106	S 2237 R 1129
17	S 1512 R 0431	S 1650 R 0558	S 1533 R 0435	S 1722 R 0541	S 1808 R 0600	S 1944 R 0722	S 2000 R 0750	S 2038 R 0858	S 2111 R 1007	S 2122 R 1035	S 2248 R 1155	S 2334 R 1214
18	S 1608 R 0529	S 1754 R 0651	S 1635 R 0526	S 1824 R 0630	S 1908 R 0652	S 2034 R 0815	S 2043 R 0840	S 2115 R 0946	S 2153 R 1057	S 2211 R 1127	S 2345 R 1243	S 0032 R 1300
19	S 1707 R 0626	S 1857 R 0742	S 1738 R 0616	S 1925 R 0721	S 2006 R 0746	S 2121 R 0907	S 2123 R 0928	S 2153 R 1033	S 2237 R 1148	S 2303 R 1218	S 0042 R 1329	S 0129 R 1346
20	S 1810 R 0722	S 2000 R 0831	S 1840 R 0705	S 2026 R 0813	S 2102 R 0840	S 2205 R 0958	S 2201 R 1016	S 2231 R 1122	S 2325 R 1240	S 2358 R 1309	S 0042 R 1416	S 0129 R 1433
21	S 1913 R 0815	S 2102 R 0920	S 1943 R 0755	S 2125 R 0907	S 2154 R 0934	S 2246 R 1047	S 2238 R 1103	S 2312 R 1212	S 2312 S 0016	S 2312 S 0054	S 0016 R 1503	S 0228 R 1523
22	S 2016 R 0906	S 2203 R 1008	S 2044 R 0845	S 2221 R 1000	S 2243 R 1026	S 2325 R 1135	S 2316 R 1151	S 2355 R 1303	R 1333 S 0110	R 1358 S 0152	R 1503 S 0338	R 1523 S 0427
23	S 2118 R 0954	S 2302 R 1056	S 2145 R 0936	S 2315 R 1053	S 2328 R 1117	S 2328 S 0003	S 2354 R 1239	R 1425 S 0042	R 1425 R 1356	R 1447 R 1517	R 1551 R 1641	R 1615 R 1709
24	S 2218 R 1041	S 2359 R 1146	S 2243 R 1027	S 2340 R 1145	S 2343 R 1206	S 0003 R 1310	R 1222 S 0034	S 0042 S 0133	R 1356 R 1450	R 1517 R 1608	R 1641 R 1734	R 1709 R 1805
25	S 2317 R 1127	S 0055 R 1235	S 2340 R 1119	S 0050 R 1236	S 0050 R 1254	S 0118 R 1358	S 0116 R 1421	S 0227 R 1544	S 0408 R 1659	S 0454 R 1713	S 0643 R 1828	S 0722 R 1902
26	S 0015 R 1214	S 0149 R 1326	S 0033 R 1211	S 0133 R 1325	S 0128 R 1342	S 0157 R 1448	S 0202 R 1514	S 0324 R 1638	S 0510 R 1749	S 0556 R 1804	S 0744 R 1925	S 0815 R 1957
27	S 0111 R 1301	S 0239 R 1416	S 0123 R 1302	S 0213 R 1413	S 0205 R 1429	S 0239 R 1539	S 0252 R 1609	S 0425 R 1731	S 0613 R 1839	S 0659 R 1856	S 0842 R 2021	S 0904 R 2052
28	S 0206 R 1349	S 0239 R 1416	S 0210 R 1352	S 0252 R 1501	S 0243 R 1517	S 0324 R 1633	S 0346 R 1704	S 0527 R 1823	S 0716 R 1929	S 0802 R 1951	S 0936 R 2117	S 0949 R 2144
29	S 0300 R 1438	S 0336 R 1442	S 0254 R 1442	S 0330 R 1548	S 0322 R 1607	S 0412 R 1728	S 0443 R 1800	S 0629 R 1914	S 0818 R 2020	S 0903 R 2046	S 1026 R 2211	S 1031 R 2234
30	S 0352 R 1529	S 0336 R 1530	S 0336 R 1530	S 0402 R 1658	S 0402 R 1658	S 0402 R 1658	S 0543 R 1854	S 0732 R 2003	S 1002 R 2141	S 1002 R 2141	S 1110 R 2322	S 1110 R 2322

