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TOWNSVILLE – QUEENSLAND

LAT 19° 15' LONG 146° 50'

Times and Heights of High and Low Waters

2016

Local Time

JANUARY				FEBRUARY				MARCH				APRIL					
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m		
1	0410 0933 FR 1511 2305	2.05 1.82 2.55 1.38	16	0221 0830 SA 1436 2206	2.41 1.58 2.82 1.16	1	0607 1142 MO 1633 2335	2.44 1.87 2.35 1.41	16	0523 1158 TU 1731 2357	3.00 1.49 2.62 0.96	1	0551 1126 TU 1538 2236	2.41 1.94 2.15 1.66	16	0508 1153 WE 1736 2343	3.09 1.37 2.53 1.13
2	0536 1101 SA 1625 2343	2.27 1.78 2.54 1.25	17	0412 1021 SU 1610 2311	2.59 1.61 2.76 0.97	2	0624 1226 TU 1726	2.65 1.72 2.43	17	0618 1253 WE 1824	3.27 1.28 2.74	2	0555 1206 WE 1704 2325	2.63 1.75 2.28 1.47	17	0602 1244 TH 1825	3.29 1.17 2.71
3	0612 1159 SU 1715	2.49 1.69 2.56	18	0527 1148 MO 1720	2.89 1.49 2.78	3	0005 0643 WE 1259 1759	1.25 2.86 1.59 2.53	18	0045 0658 TH 1337 1902	0.81 3.46 1.15 2.84	3	0612 1236 TH 1743	2.86 1.57 2.45	18	0034 0641 FR 1324 1900	0.98 3.42 1.05 2.85
4	0012 0638 MO 1241 1750	1.14 2.68 1.60 2.59	19	0005 0619 TU 1248 1812	0.78 3.18 1.33 2.83	4	0031 0704 TH 1328 1827	1.08 3.06 1.46 2.66	19	0125 0731 FR 1413 1935	0.70 3.59 1.08 2.93	4	0000 0633 FR 1304 1813	1.25 3.09 1.39 2.66	19	0115 0712 SA 1357 1929	0.90 3.48 1.01 2.95
5	0035 0702 TU 1314 1817	1.03 2.86 1.52 2.63	20	0050 0702 WE 1337 1854	0.63 3.42 1.20 2.88	5	0055 0727 FR 1356 1856	0.91 3.27 1.33 2.82	20	0158 0802 SA 1445 2006	0.67 3.64 1.07 2.98	5	0032 0657 SA 1332 1843	1.02 3.34 1.21 2.89	20	0148 0740 SU 1424 1956	0.88 3.49 1.03 3.02
6	0055 0725 WE 1344 1842	0.93 3.02 1.45 2.68	21	0128 0740 TH 1419 1932	0.53 3.60 1.12 2.92	6	0121 0753 SA 1425 1928	0.72 3.48 1.20 2.98	21	0226 0832 SU 1512 2035	0.68 3.64 1.11 3.00	6	0102 0725 SU 1401 1917	0.79 3.57 1.03 3.14	21	0213 0807 MO 1445 2022	0.92 3.46 1.07 3.05
7	0115 0748 TH 1413 1908	0.81 3.17 1.39 2.75	22	0203 0816 FR 1457 2010	0.48 3.70 1.10 2.93	7	0149 0822 SU 1456 2005	0.55 3.67 1.09 3.13	22	0249 0902 MO 1535 2104	0.75 3.58 1.18 2.97	7	0133 0755 MO 1431 1954	0.59 3.78 0.87 3.36	22	0234 0833 TU 1500 2048	0.98 3.39 1.12 3.05
8	0136 0814 FR 1443 1938	0.69 3.33 1.32 2.82	23	0234 0852 SA 1532 2046	0.50 3.73 1.13 2.90	8	0220 0855 MO 1529 2046	0.44 3.80 1.01 3.21	23	0309 0932 TU 1553 2131	0.87 3.46 1.26 2.90	8	0206 0828 TU 1502 2036	0.46 3.91 0.76 3.51	23	0252 0858 WE 1509 2112	1.08 3.28 1.15 3.02
9	0201 0843 SA 1517 2014	0.58 3.46 1.27 2.88	24	0304 0927 SU 1606 2120	0.57 3.67 1.21 2.82	9	0255 0933 TU 1606 2132	0.41 3.84 0.99 3.22	24	0328 0959 WE 1609 2158	1.03 3.29 1.35 2.79	9	0243 0905 WE 1537 2120	0.43 3.93 0.71 3.55	24	0309 0921 TH 1520 2137	1.20 3.14 1.19 2.97
10	0231 0917 SU 1553 2055	0.51 3.56 1.24 2.89	25	0331 1002 MO 1639 2154	0.72 3.54 1.32 2.70	10	0333 1013 WE 1649 2221	0.51 3.77 1.03 3.14	25	0347 1027 TH 1626 2227	1.22 3.09 1.45 2.66	10	0323 0945 TH 1616 2208	0.55 3.80 0.77 3.49	25	0328 0943 FR 1534 2205	1.35 2.96 1.24 2.88
11	0305 0955 MO 1636 2142	0.51 3.59 1.25 2.84	26	0354 1036 TU 1711 2227	0.91 3.35 1.45 2.55	11	0416 1055 TH 1741 2315	0.73 3.58 1.13 2.98	26	0403 1054 FR 1646 2301	1.44 2.87 1.55 2.51	11	0409 1028 FR 1702 2259	0.81 3.54 0.91 3.32	26	0347 1005 SA 1552 2236	1.53 2.77 1.32 2.77
12	0343 1037 TU 1725 2234	0.60 3.55 1.28 2.73	27	0416 1110 WE 1748 2303	1.15 3.13 1.59 2.38	12	0508 1142 FR 1843	1.06 3.29 1.25	27	0417 1123 SA 1715 2348	1.68 2.64 1.67 2.36	12	0509 1113 SA 1800 2358	1.16 3.18 1.11 3.08	27	0404 1028 SU 1614 2315	1.73 2.57 1.43 2.63
13	0426 1122 WE 1824 2333	0.79 3.42 1.33 2.59	28	0437 1146 TH 1836 2351	1.41 2.89 1.70 2.21	13	0016 0628 SA 1236 2001	2.78 1.43 2.94 1.33	28	0428 1201 SU 1849 1.77	1.93 2.41 1.77	13	0637 1208 SU 1915	1.52 2.77 1.31	28	0422 1056 MO 1642	1.94 2.35 1.57
14	0520 1213 TH 1932	1.06 3.22 1.35	29	0453 1226 FR 1956	1.68 2.65 1.75	14	0144 0824 SU 1357 2132	2.63 1.70 2.63 1.30	29	0111 0925 MO 1308 2036	2.24 2.10 2.21 1.79	14	0121 0833 MO 1335 2056	2.86 1.72 2.41 1.40	29	0012 0803 TU 1157 1737	2.50 2.06 2.14 1.72
15	0042 0641 FR 1313 2050	2.45 1.36 3.00 1.29	30	0109 0500 SA 1324 2145	2.08 1.94 2.45 1.70	15	0357 1032 MO 1608 2254	2.72 1.69 2.53 1.15	30	0200 1051 WE 1409 2037	2.42 1.90 2.02 1.75	15	0336 1037 TU 1612 2233	2.86 1.61 2.36 1.30	30	0200 1051 WE 1409 2037	2.42 1.90 2.02 1.75
			31	0600 1021 SU 1501 2255	2.20 2.00 2.33 1.56				31	0451 1133 TH 1628 2224	2.61 1.69 2.16 1.61						

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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

TOWNSVILLE – QUEENSLAND

LAT 19° 15' LONG 146° 50'

Times and Heights of High and Low Waters

2016

Local Time

MAY				JUNE				JULY				AUGUST			
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
1 0507 3.04 1158 1.12 SU 1729 2.62 2333 1.24		16 0036 1.33 0612 2.97 MO 1303 0.97 1900 2.79		1 0007 1.19 0550 3.16 WE 1240 0.60 1839 3.20		16 0132 1.43 0637 2.62 TH 1313 0.95 1941 2.90		1 0107 1.16 0621 2.88 FR 1306 0.45 1921 3.43		16 0148 1.39 0639 2.44 SA 1305 0.88 1947 3.00		1 0239 0.90 0751 2.77 MO 1418 0.37 2035 3.66		16 0219 1.10 0716 2.63 TU 1332 0.59 2012 3.35	
2 0543 3.25 1232 0.89 MO 1809 2.94		17 0114 1.32 0640 2.94 TU 1328 0.97 1929 2.89		2 0059 1.05 0631 3.22 TH 1317 0.44 1923 3.48		17 0202 1.41 0700 2.59 FR 1328 0.90 2006 3.00		2 0156 1.03 0706 2.90 SA 1346 0.35 2004 3.63		17 0215 1.33 0703 2.49 SU 1325 0.77 2012 3.12		2 0317 0.88 0830 2.78 TU 1453 0.41 2112 3.65		17 0246 1.00 0749 2.77 WE 1403 0.48 2041 3.48	
3 0019 1.04 0618 3.42 TU 1304 0.68 1848 3.25		18 0145 1.33 0706 2.89 WE 1344 0.97 1955 2.97		3 0149 0.96 0712 3.22 FR 1354 0.33 2008 3.69		18 0229 1.40 0722 2.58 SA 1344 0.84 2030 3.08		3 0241 0.95 0751 2.88 SU 1425 0.31 2047 3.74		18 0242 1.27 0730 2.55 MO 1350 0.67 2039 3.24		3 0352 0.93 0909 2.73 WE 1526 0.53 2148 3.54		18 0315 0.92 0827 2.88 TH 1436 0.43 2114 3.55	
4 0103 0.87 0653 3.54 WE 1337 0.50 1930 3.52		19 0212 1.35 0728 2.84 TH 1354 0.95 2020 3.03		4 0237 0.92 0756 3.15 SA 1434 0.30 2053 3.80		19 0256 1.38 0747 2.57 SU 1404 0.78 2057 3.16		4 0326 0.93 0837 2.82 MO 1506 0.35 2129 3.75		19 0311 1.21 0802 2.61 TU 1418 0.59 2108 3.34		4 0428 1.02 0948 2.63 TH 1558 0.72 2223 3.35		19 0348 0.87 0910 2.92 FR 1512 0.48 2151 3.53	
5 0146 0.78 0731 3.58 TH 1410 0.38 2014 3.73		20 0236 1.38 0749 2.77 FR 1405 0.92 2044 3.08		5 0328 0.94 0843 3.01 SU 1516 0.35 2140 3.80		20 0326 1.38 0815 2.56 MO 1431 0.74 2127 3.21		5 0412 0.98 0924 2.72 TU 1547 0.48 2211 3.65		20 0343 1.17 0839 2.65 WE 1451 0.56 2141 3.40		5 0505 1.16 1028 2.49 FR 1628 0.97 2258 3.11		20 0426 0.88 0959 2.89 SA 1554 0.63 2230 3.39	
6 0232 0.77 0813 3.50 FR 1448 0.34 2100 3.83		21 0302 1.42 0810 2.71 SA 1421 0.89 2110 3.11		6 0421 1.03 0933 2.81 MO 1602 0.50 2228 3.69		21 0402 1.38 0850 2.52 TU 1502 0.74 2201 3.23		6 0500 1.07 1011 2.57 WE 1628 0.68 2254 3.46		21 0419 1.15 0924 2.64 TH 1528 0.60 2218 3.39		6 0543 1.30 1110 2.32 SA 1659 1.24 2332 2.84		21 0513 0.93 1052 2.80 SU 1644 0.89 2313 3.15	
7 0324 0.86 0857 3.32 SA 1528 0.41 2148 3.80		22 0331 1.47 0834 2.63 SU 1443 0.89 2140 3.11		7 0519 1.15 1026 2.58 TU 1649 0.72 2317 3.49		22 0443 1.40 0933 2.46 WE 1538 0.80 2238 3.20		7 0551 1.20 1059 2.39 TH 1708 0.93 2336 3.21		22 0503 1.16 1014 2.59 FR 1609 0.72 2258 3.30		7 0631 1.42 1159 2.16 SU 1741 1.53		22 0612 1.03 1151 2.66 MO 1757 1.21	
8 0421 1.03 0944 3.04 SU 1614 0.58 2238 3.66		23 0408 1.53 0902 2.53 MO 1511 0.93 2213 3.08		8 0624 1.28 1124 2.35 WE 1743 0.99		23 0532 1.43 1025 2.37 TH 1620 0.91 2321 3.13		8 0651 1.32 1153 2.22 FR 1753 1.22		23 0554 1.19 1110 2.51 SA 1657 0.92 2342 3.14		8 0010 2.56 0742 1.50 MO 1315 2.04 1909 1.78		23 0002 2.84 0722 1.11 TU 1306 2.53 1935 1.49	
9 0526 1.24 1037 2.71 MO 1707 0.83 2333 3.44		24 0455 1.61 0939 2.40 TU 1543 1.01 2252 3.02		9 0009 3.23 0740 1.36 TH 1236 2.16 1847 1.27		24 0631 1.44 1127 2.27 FR 1711 1.07		9 0021 2.93 0801 1.39 SA 1304 2.07 1854 1.50		24 0654 1.21 1212 2.41 SU 1801 1.18		9 0100 2.32 0912 1.49 TU 1608 2.09 2202 1.86		24 0107 2.50 0846 1.11 WE 1505 2.55 2140 1.57	
10 0643 1.41 1139 2.39 TU 1810 1.11		25 0554 1.67 1028 2.26 WE 1623 1.13 2338 2.93		10 0112 2.98 0858 1.35 FR 1422 2.08 2019 1.49		25 0009 3.02 0739 1.41 SA 1236 2.20 1819 1.26		10 0113 2.67 0914 1.39 SU 1455 2.05 2047 1.71		25 0033 2.93 0805 1.19 MO 1328 2.35 1932 1.43		10 0230 2.14 1025 1.40 WE 1745 2.31 2341 1.73		25 0312 2.30 1010 1.00 TH 1642 2.78 2324 1.38	
11 0038 3.18 0815 1.46 WE 1311 2.15 1937 1.35		26 0705 1.69 1136 2.13 TH 1717 1.29		11 0232 2.80 1011 1.27 SA 1559 2.16 2152 1.59		26 0106 2.90 0851 1.30 SU 1359 2.20 1948 1.42		11 0227 2.47 1023 1.32 MO 1645 2.17 2235 1.75		26 0137 2.70 0919 1.10 TU 1514 2.42 2121 1.56		11 0423 2.12 1113 1.27 TH 1812 2.51		26 0456 2.36 1117 0.83 FR 1747 3.06	
12 0210 3.00 0945 1.37 TH 1519 2.15 2117 1.46		27 0033 2.84 0831 1.61 FR 1259 2.05 1844 1.44		12 0352 2.71 1111 1.17 SU 1716 2.33 2313 1.58		27 0218 2.80 0956 1.14 MO 1535 2.34 2127 1.49		12 0352 2.38 1115 1.22 TU 1752 2.37 2353 1.66		27 0312 2.55 1028 0.95 WE 1644 2.65 2310 1.48		12 0028 1.57 0524 2.18 FR 1148 1.15 1836 2.70		27 0028 1.14 0556 2.49 SA 1212 0.67 1833 3.28	
13 0344 2.95 1058 1.22 FR 1648 2.31 2241 1.44		28 0146 2.79 0945 1.45 SA 1441 2.11 2022 1.51		13 0453 2.68 1156 1.09 MO 1807 2.50		28 0340 2.78 1051 0.95 TU 1649 2.59 2258 1.44		13 0458 2.37 1153 1.13 WE 1829 2.56		28 0440 2.54 1127 0.78 TH 1749 2.94		13 0100 1.43 0558 2.27 SA 1216 1.02 1859 2.86		28 0114 0.96 0639 2.61 SU 1257 0.56 1911 3.44	
14 0451 2.97 1150 1.09 SA 1746 2.50 2346 1.38		29 0314 2.83 1038 1.23 SU 1606 2.32 2155 1.46		14 0012 1.52 0536 2.66 TU 1230 1.03 1844 2.66		29 0444 2.81 1141 0.76 WE 1748 2.88		14 0043 1.56 0542 2.38 TH 1222 1.05 1858 2.72		29 0022 1.30 0542 2.59 FR 1217 0.62 1838 3.21		14 0128 1.31 0624 2.37 SU 1241 0.88 1921 3.03		29 0154 0.85 0714 2.71 MO 1335 0.50 1944 3.52	
15 0537 2.99 1231 1.01 SU 1827 2.66		30 0421 2.94 1123 1.01 MO 1706 2.60 2308 1.34		15 0057 1.47 0609 2.64 WE 1255 0.99 1914 2.79		30 0010 1.30 0536 2.85 TH 1225 0.59 1837 3.17		15 0118 1.46 0614 2.40 FR 1245 0.97 1923 2.87		30 0116 1.11 0630 2.66 SA 1302 0.49 1920 3.43		15 0153 1.21 0649 2.49 MO 1306 0.74 1945 3.19		30 0227 0.81 0747 2.79 TU 1408 0.50 2015 3.54	
		31 0508 3.06 1202 0.79 TU 1754 2.90								31 0159 0.98 0711 2.72 SU 1342 0.40 1958 3.59				31 0258 0.82 0819 2.82 WE 1437 0.56 2048 3.48	

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

Moon Phase Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

TOWNSVILLE – QUEENSLAND

LAT 19° 15' LONG 146° 50'

Times and Heights of High and Low Waters

2016

Local Time

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER					
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m		
1	0324	0.89	16	0244	0.65	1	0248	0.89	16	0342	0.37	1	0254	0.83	16	0418	0.52
	0852	2.80		0813	3.14		0942	2.85		1013	3.63		1002	3.00		1053	3.65
TH	1503	0.69	FR	1419	0.42	TU	1554	1.52	WE	1658	1.11	TH	1642	1.61	FR	1751	1.22
●	2119	3.36	●	2043	3.62	●	2111	2.47	●	2206	2.73	●	2118	2.36	●	2250	2.50
2	0347	0.98	17	0314	0.58	2	0308	0.96	17	0433	0.60	2	0322	0.93	17	0510	0.80
	0924	2.72		0855	3.22		1015	2.77		1109	3.45		1039	2.93		1146	3.41
FR	1527	0.86	SA	1458	0.49	WE	1648	1.66	TH	1810	1.27	FR	1736	1.68	SA	1902	1.33
	2148	3.18	○	2120	3.55		2134	2.30	●	2306	2.40		2156	2.21	●	2353	2.26
3	0406	1.09	18	0350	0.59	3	0331	1.08	18	0539	0.88	3	0354	1.06	18	0614	1.12
	0956	2.61		0943	3.21		1056	2.66		1213	3.23		1123	2.85		1246	3.15
SA	1550	1.08	SU	1543	0.68	TH	1800	1.78	FR	1937	1.34	SA	1845	1.72	SU	2021	1.36
	2216	2.95		2201	3.35		2203	2.10					2251	2.05			
4	0424	1.20	19	0432	0.69	4	0357	1.23	19	0025	2.12	4	0434	1.24	19	0128	2.10
	1030	2.47		1036	3.10		1147	2.56		0704	1.14		1216	2.76		0746	1.39
SU	1611	1.32	MO	1644	0.98	FR	1937	1.81	SA	1337	3.05	SU	2014	1.67	MO	1401	2.94
	2244	2.70	●	2245	3.03	●	2253	1.91	●	2109	1.28	●	2140	1.30	●	2140	1.30

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