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# AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2014

LAT 16° 08' LONG 123° 44'

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -0800

## JANUARY

Time	m	Time	m	Time	m	Time	m
1	0513 1.42	9	0416 8.08	17	0006 9.46	25	0402 7.75
	1118 8.85	10	1030 2.75		0629 1.31		1013 3.09
WE	1725 2.13	TH	1644 8.26	FR	1230 9.18	SA	1630 8.01
●	2327 9.82		2312 3.24		1838 1.91	SA	2303 3.47
2	0557 0.92	10	0512 7.24	18	0034 9.65	26	0503 6.95
	1201 9.35	11	1124 3.55		0657 1.18		1115 3.87
TH	1809 1.68	FR	1748 7.58	SA	1257 9.38	SU	1748 7.39
					1906 1.76		
3	0010 10.20	11	0036 3.78	19	0102 9.73	27	0052 3.90
	0639 0.61		0646 6.59		0723 1.14		0712 6.44
FR	1242 9.70	SA	1259 4.17	SU	1324 9.50	MO	1323 4.34
	1852 1.38		1935 7.22		1934 1.68		2002 7.31
4	0052 10.37	12	0234 3.74	20	0128 9.71	28	0256 3.50
	0719 0.52		0850 6.68		0748 1.17		0914 6.91
SA	1322 9.90	SU	1457 4.10	MO	1350 9.54	TU	1519 3.90
	1935 1.25		2116 7.52		2001 1.68		2134 7.99
5	0132 10.30	13	0358 3.13	21	0156 9.58	29	0414 2.62
	0758 0.62		1011 7.31		0813 1.29		1025 7.81
SU	1401 9.91	MO	1613 3.55	TU	1417 9.48	WE	1630 3.08
	2015 1.31		2220 8.12		2029 1.78		2236 8.85
6	0213 10.01	14	0449 2.46	22	0222 9.33	30	0507 1.76
	0835 0.92		1057 7.96		0839 1.53		1114 8.68
MO	1439 9.75	TU	1700 2.97	WE	1443 9.32	TH	1722 2.27
	2055 1.56		2301 8.69		2058 2.01		2324 9.62
7	0252 9.52	15	0527 1.92	23	0251 8.96	31	0551 1.08
	0912 1.39		1132 8.50		0905 1.90		1155 9.41
TU	1517 9.41	WE	1736 2.50	TH	1512 9.02	FR	1806 1.58
	2135 1.99		2336 9.14		2128 2.36	●	
8	0331 8.86	16	0559 1.54	24	0323 8.43		
	0948 2.01		1202 8.90		0936 2.41		
WE	1557 8.91	TH	1809 2.15	FR	1545 8.59		
●	2218 2.58	○		●	2207 2.86		

## FEBRUARY

Time	m	Time	m	Time	m	Time	m
1	0006 10.18	9	0517 6.56	17	0045 9.89	25	0610 6.36
	0631 0.62		1124 4.34		0704 1.04		1227 4.59
SA	1233 9.97	SU	1803 6.84	MO	1303 9.89	TU	1924 6.98
	1847 1.08				1917 1.29		
2	0045 10.51	10	0127 4.36	18	0111 9.97	26	0232 3.90
	0709 0.38		0805 6.11		0728 0.99		0902 6.72
SU	1309 10.33	MO	1417 4.75	TU	1328 10.01	WE	1510 4.18
	1925 0.80		2049 6.82		1943 1.20		2126 7.66
3	0122 10.57	11	0343 3.82	19	0137 9.91	27	0404 2.95
	0744 0.38		1006 6.82		0753 1.06		1018 7.78
MO	1344 10.45	TU	1605 4.08	WE	1354 10.00	TH	1626 3.14
	2002 0.76		2213 7.56		2009 1.26		2231 8.67
4	0158 10.36	12	0439 3.00	20	0203 9.70	28	0457 1.99
	0817 0.61		1050 7.66		0817 1.28		1103 8.80
TU	1417 10.33	WE	1653 3.29	TH	1419 9.84	FR	1715 2.16
	2036 0.98		2254 8.31		2036 1.47		2315 9.54
5	0232 9.91	13	0516 2.31	21	0229 9.34		
	0848 1.05		1121 8.35		0841 1.64		
WE	1451 9.97	TH	1727 2.65	FR	1445 9.53		
	2109 1.44		2325 8.92		2103 1.84		
6	0305 9.26	14	0546 1.79	22	0258 8.82		
	0918 1.68		1148 8.90		0907 2.15		
TH	1523 9.39	FR	1756 2.15	SA	1514 9.05		
	2143 2.09		2353 9.37		2136 2.40		
7	0338 8.46	15	0613 1.43	23	0332 8.12		
	0949 2.46		1213 9.32		0939 2.86		
FR	1557 8.62	SA	1824 1.77	SU	1552 8.36		
●	2221 2.91	○		●	2221 3.16		
8	0417 7.53	16	0019 9.69	24	0420 7.22		
	1025 3.38		0639 1.19		1027 3.76		
SA	1641 7.71	SU	1238 9.65	MO	1652 7.49		
●	2315 3.79		1850 1.48		2349 3.97		

## MARCH

Time	m	Time	m	Time	m	Time	m
1	0538 1.24	9	0338 7.79	17	0614 1.37	25	0404 7.34
	1141 9.64		0943 3.28		1211 9.85		1011 3.86
SA	1755 1.38	SU	1552 7.90	MO	1828 1.30	TU	1632 7.48
●	2354 10.16		2220 3.59	○			2324 3.95
2	0615 0.74	10	0418 6.83	18	0024 9.90	26	0551 6.54
	1215 10.25		1023 4.26		0638 1.15		1216 4.64
SU	1833 0.82	MO	1644 6.90	TU	1237 10.15	WE	1904 6.91
			2338 4.50		1854 1.04		
3	0030 10.52	11	0620 5.98	19	0050 10.04	27	0207 4.02
	0650 0.48		1252 5.09		0704 1.06		0842 6.90
MO	1248 10.63	TU	2000 6.38	WE	1303 10.31	TH	1500 4.11
	1908 0.52				1922 0.92		2112 7.58
4	0104 10.60	12	0309 4.38	20	0117 10.01	28	0343 3.14
	0722 0.45		0943 6.55		0730 1.11		0957 7.97
TU	1321 10.75	WE	1545 4.45	TH	1329 10.29	FR	1611 3.01
	1942 0.49		2151 7.12		1949 0.97		2215 8.56
5	0137 10.43	13	0416 3.52	21	0144 9.81	29	0435 2.23
	0752 0.66		1029 7.46		0755 1.33		1042 8.98
WE	1351 10.60	TH	1634 3.56	FR	1355 10.10	SA	1658 2.03
	2013 0.73		2234 7.96		2015 1.22		2258 9.38
6	0208 10.01	14	0452 2.74	22	0211 9.44	30	0516 1.54
	0821 1.08		1058 8.25		0820 1.70		1118 9.77
TH	1421 10.20	FR	1706 2.80	SA	1422 9.74	SU	1737 1.29
	2042 1.20		2305 8.66		2043 1.64		2336 9.95
7	0237 9.41	15	0522 2.14	23	0240 8.92	31	0552 1.09
	0848 1.67		1122 8.90		0848 2.23		1151 10.32
FR	1450 9.59	SA	1734 2.18	SU	1453 9.19	MO	1812 0.80
	2111 1.86		2332 9.21		2117 2.26	●	
8	0306 8.66	16	0548 1.69	24	0315 8.22		
	0914 2.41		1147 9.43		0921 2.95		
SA	1519 8.81	SU	1801 1.68	MO	1531 8.43		
●	2141 2.67		2358 9.62	●	2202 3.09		

## APRIL

Time	m	Time	m	Time	m	Time	m
1	0009 10.26	9	0504 6.39	17	0027 9.88	25	0128 3.87
	0626 0.86		1119 4.91		0638 1.32		0801 7.26
TU	1224 10.64	WE	1800 6.38	TH	1236 10.37	FR	1429 3.84
	1846 0.55				1859 0.83		2040 7.55
2	0043 10.34	10	0125 4.65	18	0057 9.89	26	0304 3.29
	0657 0.84		0824 6.41		0707 1.35		0921 8.10
WE	1254 10.71	TH	1447 4.73	FR	1306 10.35	SA	1543 2.91
	1918 0.56		2054 6.73		1930 0.90		2148 8.33
3	0114 10.20	11	0324 4.04	19	0127 9.70	27	0404 2.57
	0727 1.02		0941 7.22		0736 1.54		1011 8.95
TH	1325 10.53	FR	1554 3.87	SA	1336 10.13	SU	1632 2.06
	1949 0.80		2154 7.52		2001 1.18		2235 9.01
4	0144 9.84	12	0411 3.29	20	0158 9.35	28	0448 2.00
	0755 1.38		1018 8.03		0806 1.91		1051 9.61
FR	1354 10.12	SA	1632 3.04	SU	1408 9.71	MO	1713 1.43
	2017 1.24		2231 8.26		2033 1.64		2313 9.48
5	0213 9.33	13	0445 2.64	21	0232 8.85	29	0526 1.62
	0822 1.90		1047 8.75		0839 2.43		1125 10.06
SA	1422 9.55	SU	1703 2.32	MO	1443 9.12	TU	1750 1.02
	2044 1.83		2301 8.88		2110 2.27	●	2348 9.76
6	0241 8.70	14	0515 2.12	22	0312 8.23	30	0601 1.42
	0848 2.52		1113 9.36		0920 3.10		1158 10.30
SU	1450 8.86	MO	1732 1.74	TU	1528 8.35	WE	1824 0.83
	2113 2.54		2329 9.35	●	2201 3.02		
7	0312 7.99	15	0542 1.73	23	0409 7.51		
	0917 3.26		1140 9.84		1023 3.86		
MO	1521 8.05	TU	1800 1.28	WE	1639 7.51		
●	2147 3.34	○	2358 9.69		2320 3.73		
8	0350 7.19	16	0610 1.46	24	0549 6.99		
	0955 4.10		1207 10.19		1219 4.33		
TU	1605 7.15	WE	1830 0.97	TH	1845 7.08		
●	2243 4.19						

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National Tidal Centre

Height datum is Chart Datum

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

# AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2014

LAT 16° 08' LONG 123° 44'

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -0800

## MAY

Time	m	Time	m	Time	m	Time	m
1	0022 9.86	9	0617 6.66	17	0040 9.63	25	0214 3.43
	0633 1.37		1255 4.64		0650 1.59		0834 8.03
TH	1231 10.35	FR	1913 6.57	SA	1249 10.23	SU	1506 2.97
	1857 0.84				1916 0.92		2112 7.88
2	0054 9.77	10	0143 4.30	18	0116 9.53	26	0326 3.01
	0704 1.49		0819 7.00		0725 1.71		0936 8.61
FR	1302 10.19	SA	1443 4.12	SU	1325 10.03	MO	1604 2.31
	1928 1.05		2050 7.04		1952 1.16		2209 8.41
3	0125 9.52	11	0305 3.81	19	0153 9.28	27	0419 2.56
	0734 1.76		0919 7.68		0802 1.98		1023 9.13
SA	1332 9.85	SU	1542 3.35	MO	1403 9.64	TU	1651 1.77
	1956 1.40		2144 7.71		2031 1.57		2253 8.84
4	0156 9.14	12	0355 3.20	20	0233 8.90	28	0503 2.20
	0803 2.13		1001 8.40		0843 2.40		1103 9.52
SU	1401 9.40	MO	1623 2.59	TU	1445 9.10	WE	1731 1.40
	2025 1.86		2223 8.36		2113 2.10		2332 9.14
5	0225 8.69	13	0434 2.64	21	0318 8.45	29	0541 1.97
	0831 2.60		1035 9.05		0931 2.90		1139 9.76
MO	1431 8.85	TU	1658 1.93	WE	1536 8.45	TH	1807 1.21
	2055 2.40		2258 8.90	●	2204 2.71	●	
6	0256 8.18	14	0508 2.18	22	0416 7.98	30	0007 9.30
	0903 3.14		1108 9.59		1033 3.42		0616 1.85
TU	1504 8.22	WE	1732 1.41	TH	1642 7.78	FR	1213 9.84
	2129 3.00		2332 9.30		2310 3.27		1840 1.17
7	0335 7.61	15	0541 1.84	23	0531 7.61	31	0040 9.32
	0943 3.76		1140 9.99		1200 3.74		0649 1.85
WE	1546 7.51	TH	1806 1.05	FR	1812 7.34	SA	1245 9.78
●	2216 3.67	○					1912 1.27
8	0430 7.02	16	0005 9.55	24	0040 3.58		
	1047 4.39		0615 1.64		0708 7.60		
TH	1656 6.82	FR	1214 10.21	SA	1344 3.56		
	2333 4.25		1840 0.89		1955 7.41		

## JUNE

Time	m	Time	m	Time	m	Time	m
1	0112 9.22	9	0134 4.05	17	0150 9.44	25	0356 3.12
	0720 1.97		0803 7.34		0802 1.71		1004 8.46
SU	1317 9.58	MO	1436 3.62	TU	1402 9.75	WE	1634 2.21
	1942 1.48		2044 7.13		2028 1.25		2240 8.19
2	0143 9.03	10	0253 3.69	18	0232 9.25	26	0447 2.69
	0750 2.18		0907 7.91		0845 1.95		1050 8.89
MO	1347 9.29	TU	1537 2.92	WE	1446 9.32	TH	1717 1.78
	2011 1.78		2142 7.72		2109 1.67		2321 8.59
3	0213 8.77	11	0350 3.16	19	0315 8.95	27	0529 2.34
	0820 2.45		0956 8.56		0931 2.31		1128 9.22
TU	1417 8.92	WE	1625 2.22	TH	1532 8.76	FR	1755 1.50
	2041 2.12		2228 8.31		2154 2.18	●	2357 8.88
4	0244 8.47	12	0436 2.64	20	0403 8.58	28	0605 2.10
	0853 2.79		1039 9.17		1023 2.74		1202 9.43
WE	1451 8.48	TH	1708 1.63	FR	1625 8.13	SA	1828 1.35
	2113 2.53		2310 8.81	●	2245 2.75		
5	0319 8.12	13	0518 2.20	21	0459 8.15	29	0029 9.05
	0930 3.20		1119 9.65		1127 3.16		0638 1.96
TH	1528 7.96	FR	1748 1.20	SA	1732 7.53	SU	1235 9.51
	2151 3.02	○	2350 9.18		2351 3.29		1859 1.32
6	0401 7.71	14	0559 1.86	22	0612 7.79	30	0100 9.12
	1017 3.66		1159 9.97		1252 3.39		0709 1.92
FR	1616 7.38	SA	1828 0.93	SU	1902 7.16	MO	1305 9.47
●	2239 3.54						1929 1.39
7	0458 7.30	15	0029 9.42	23	0117 3.60		
	1124 4.05		0639 1.66		0743 7.72		
SA	1729 6.87	SU	1239 10.10	MO	1424 3.22		
	2352 3.98		1908 0.86		2034 7.27		
8	0626 7.10	16	0109 9.50	24	0246 3.50		
	1308 4.09		0720 1.61		0902 8.01		
SU	1918 6.74	MO	1320 10.03	TU	1539 2.74		
			1948 0.98		2147 7.70		

## JULY

Time	m	Time	m	Time	m	Time	m
1	0130 9.10	9	0144 4.03	17	0219 9.77	25	0442 3.00
	0738 1.96		0810 7.41		0836 1.30		1044 8.41
TU	1335 9.34	WE	1451 3.29	TH	1434 9.65	FR	1709 2.04
	1956 1.53		2104 7.09		2054 1.19		2315 8.31
2	0158 9.02	10	0310 3.63	18	0258 9.52	26	0522 2.47
	0808 2.07		0924 8.01		0916 1.63		1122 8.90
WE	1403 9.13	TH	1558 2.57	FR	1514 9.09	SA	1745 1.63
	2024 1.73		2206 7.76		2131 1.71		2348 8.75
3	0227 8.87	11	0413 3.02	19	0337 9.08	27	0556 2.08
	0838 2.25		1019 8.71		0958 2.13		1153 9.25
TH	1433 8.82	FR	1651 1.86	SA	1557 8.39	SU	1816 1.36
	2053 2.00		2256 8.43	●	2211 2.37	●	
4	0257 8.65	12	0504 2.40	20	0421 8.50	28	0017 9.05
	0909 2.52		1107 9.34		1047 2.75		0626 1.82
FR	1505 8.42	SA	1736 1.28	SU	1648 7.61	MO	1223 9.46
	2124 2.38	○	2340 9.00		2301 3.12		1845 1.23
5	0329 8.34	13	0549 1.87	21	0517 7.82	29	0045 9.25
	0946 2.88		1151 9.83		1155 3.37		0654 1.66
SA	1541 7.92	SU	1818 0.88	MO	1802 6.88	TU	1250 9.55
●	2159 2.85						1911 1.19
6	0409 7.94	14	0021 9.44	22	0015 3.82	30	0111 9.36
	1031 3.30		0632 1.46		0645 7.27		0723 1.58
SU	1628 7.34	MO	1232 10.12	TU	1339 3.64	WE	1318 9.53
	2244 3.40		1859 0.66		1957 6.63		1937 1.23
7	0502 7.51	15	0101 9.73	23	0210 4.03	31	0137 9.39
	1136 3.69		0714 1.21		0835 7.30		0749 1.58
MO	1741 6.80	TU	1313 10.19	WE	1521 3.27	TH	1344 9.40
	2355 3.91		1939 0.64		2137 7.07		2002 1.35
8	0628 7.22	16	0140 9.84	24	0344 3.61		
	1320 3.76		0756 1.15		0954 7.82		
TU	1933 6.66	WE	1354 10.03	TH	1625 2.62		
			2017 0.82		2236 7.73		

## AUGUST

Time	m	Time	m	Time	m	Time	m
1	0203 9.32	9	0402 3.23	17	0305 9.40	25	0541 1.95
	0817 1.69		1009 8.39		0927 1.77		1139 9.22
FR	1411 9.16	SA	1640 2.01	SU	1524 8.53	MO	1758 1.37
	2028 1.57		2248 8.33	●	2135 2.22	●	2357 9.22
2	0229 9.15	10	0456 2.37	18	0340 8.67	26	0609 1.59
	0845 1.90		1059 9.22		1006 2.53		1205 9.52
SA	1439 8.81	SU	1726 1.27	MO	1604 7.65	TU	1824 1.17
	2053 1.90		2330 9.11		2213 3.08		
3	0257 8.87	11	0541 1.63	19	0424 7.79	27	0021 9.51
	0914 2.22		1142 9.86		1058 3.39		0636 1.34
SU	1509 8.35	MO	1807 0.75	TU	1701 6.74	WE	1231 9.68
	2121 2.35	○			2310 4.00		1848 1.06
4	0327 8.47	12	0008 9.72	20	0537 6.91	28	0047 9.70
	0949 2.67		0623 1.06		1242 4.06		0701 1.19
MO	1545 7.76	TU	1222 10.27	WE	1916 6.15	TH	1257 9.72
●	2155 2.94		1845 0.44				1913 1.05
5	0406 7.94	13	0045 10.14	21	0135 4.53	29	0111 9.78
	1036 3.23		0702 0.71		0813 6.68		0727 1.15
TU	1635 7.04	WE	1300 10.41	TH	1507 3.77	FR	1322 9.64
	2246 3.65		1922 0.37		2134 6.69		1937 1.14
6	0508 7.32	14	0121 10.32	22	0340 3.95	30	0137 9.74
	1200 3.76		0740 0.60		0950 7.36		0753 1.22
WE	1816 6.41	TH	1337 10.28	FR	1616 2.97	SA	1348 9.43
			1957 0.53		2230 7.54		2001 1.35
7	0028 4.25	15	0157 10.26	23	0435 3.14	31	0201 9.56
	0713 7.00		0817 0.76		1037 8.14		0819 1.43
TH	1413 3.66	FR	1413 9.89	SA	1657 2.25	SU	1414 9.09
	2034 6.61		2030 0.92		2303 8.26		2025 1.68
8	0243 4.02	16	0231 9.94	24	0511 2.45		
	0902 7.52		0852 1.16		1110 8.76		
FR	1542 2.89	SA	1448 9.29	SU	1729 1.72		
	2156 7.43		2102 1.50		2332 8.82		

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Bureau of Meteorology

National Tidal Centre

Height datum is Chart Datum

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

# AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2014

LAT 16° 08' LONG 123° 44'

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -0800

## SEPTEMBER

Time	m	Time	m	Time	m	Time	m
1	0227 9.26	9	0529 1.31	17	0339 7.82	25	0611 1.13
	0846 1.77		1129 9.92		1009 3.33		1207 9.71
MO	1441 8.63	TU	1748 0.74	WE	1611 6.83	TH	1821 1.14
	2051 2.14	○	2350 10.07		2217 4.07		
2	0254 8.83	10	0607 0.70	18	0433 6.83	26	0019 9.97
	0916 2.26		1206 10.34		1125 4.22		0637 0.93
TU	1512 8.02	WE	1824 0.44	TH	1802 6.03	FR	1233 9.80
●	2120 2.75						1846 1.10
3	0328 8.22	11	0024 10.50	19	0035 4.84	27	0044 10.08
	0956 2.94		0644 0.35		0735 6.28		0703 0.85
WE	1555 7.24	TH	1241 10.48	FR	1437 4.21	SA	1259 9.75
	2202 3.55		1859 0.38		2113 6.50		1911 1.17
4	0418 7.42	12	0057 10.65	20	0324 4.21	28	0110 10.03
	1106 3.72		0719 0.28		0931 7.00		0730 0.93
TH	1719 6.39	FR	1316 10.34	SA	1554 3.37	SU	1326 9.56
	2334 4.39		1932 0.56		2209 7.43		1936 1.37
5	0626 6.75	13	0130 10.53	21	0416 3.29	29	0136 9.84
	1343 3.93		0753 0.49		1018 7.86		0756 1.15
FR	2018 6.45	SA	1349 9.94	SU	1634 2.59	MO	1353 9.23
			2003 0.96		2240 8.24		2001 1.70
6	0232 4.22	14	0202 10.13	22	0451 2.51	30	0202 9.50
	0851 7.26		0825 0.96		1049 8.57		0823 1.54
SA	1529 3.10	SU	1422 9.34	MO	1704 1.99	TU	1420 8.77
	2147 7.45		2032 1.55		2306 8.87		2028 2.18
7	0356 3.20	15	0233 9.52	23	0519 1.89		
	1002 8.28		0856 1.62		1117 9.11		
SU	1627 2.11	MO	1453 8.60	TU	1732 1.57		
	2236 8.51		2102 2.27		2330 9.37		
8	0447 2.17	16	0304 8.73	24	0546 1.45		
	1049 9.22		0928 2.42		1142 9.48		
MO	1710 1.30	TU	1526 7.76	WE	1757 1.30		
	2314 9.40	●	2133 3.12	●	2354 9.73		

## OCTOBER

Time	m	Time	m	Time	m	Time	m
1	0231 9.02	9	0548 0.58	17	0353 7.04	25	0613 0.86
	0854 2.08		1146 10.17		1031 3.98		1211 9.69
WE	1453 8.16	TH	1801 0.75	FR	1656 6.40	SA	1821 1.34
	2100 2.81				2315 4.74		
2	0305 8.34	10	0000 10.59	18	0546 6.25	26	0019 10.18
	0934 2.82		0623 0.30		1301 4.47		0641 0.74
TH	1536 7.38	FR	1221 10.29	SA	2003 6.39	SU	1240 9.70
●	2143 3.62		1835 0.70				1849 1.36
3	0357 7.45	11	0033 10.69	19	0233 4.52	27	0047 10.17
	1042 3.66		0657 0.27		0840 6.59		0710 0.80
FR	1700 6.57	SA	1254 10.16	SU	1505 3.92	MO	1309 9.56
	2322 4.44		1907 0.87		2124 7.19		1918 1.52
4	0603 6.70	12	0105 10.52	20	0340 3.63	28	0116 9.98
	1313 4.00		0730 0.51		0942 7.39		0740 1.02
SA	1956 6.64	SU	1328 9.82	MO	1554 3.17	TU	1339 9.27
			1938 1.23		2203 8.01		1947 1.83
5	0220 4.16	13	0136 10.11	21	0418 2.79	29	0147 9.62
	0836 7.19		0801 0.97		1018 8.15		0810 1.42
SU	1505 3.25	MO	1358 9.30	TU	1630 2.53	WE	1411 8.85
	2125 7.66		2008 1.75		2232 8.71		2018 2.28
6	0340 3.05	14	0206 9.52	22	0449 2.08	30	0220 9.10
	0946 8.22		0831 1.59		1048 8.75		0846 1.98
MO	1604 2.30	TU	1429 8.66	WE	1658 2.04	TH	1448 8.29
	2213 8.73		2036 2.40		2258 9.28		2055 2.88
7	0430 1.98	15	0236 8.79	23	0517 1.53	31	0300 8.40
	1032 9.13		0901 2.32		1115 9.21		0929 2.69
TU	1648 1.53	WE	1502 7.95	TH	1726 1.68	FR	1537 7.64
	2251 9.60		2107 3.13		2324 9.72	●	2149 3.59
8	0510 1.15	16	0309 7.96	24	0545 1.12		
	1111 9.79		0936 3.13		1143 9.52		
WE	1726 1.02	TH	1541 7.16	FR	1753 1.45		
○	2326 10.23	●	2148 3.96	●	2351 10.02		

## NOVEMBER

Time	m	Time	m	Time	m	Time	m
1	0357 7.57	9	0012 10.41	17	0031 4.57	25	0031 10.15
	1037 3.44		0638 0.53		0648 6.36		0658 0.77
SA	1700 7.04	SU	1238 9.80	MO	1317 4.29	TU	1259 9.51
	2325 4.19		1847 1.32		2000 6.89		1906 1.64
2	0547 6.92	10	0045 10.28	18	0232 4.10	26	0106 10.05
	1233 3.82		0711 0.71		0838 6.79		0732 0.92
SU	1912 7.05	MO	1311 9.59	TU	1449 3.86	WE	1334 9.36
			1920 1.56		2106 7.54		1942 1.83
3	0147 3.93	11	0117 9.95	19	0332 3.32	27	0141 9.76
	0801 7.18		0743 1.07		0934 7.46		0808 1.25
MO	1424 3.39	TU	1343 9.23	WE	1542 3.27	TH	1410 9.06
	2046 7.82		1951 1.94		2148 8.24		2020 2.17
4	0312 3.00	12	0148 9.48	20	0413 2.55	28	0220 9.29
	0918 7.98		0813 1.55		1014 8.12		0846 1.72
TU	1532 2.66	WE	1415 8.78	TH	1621 2.72	FR	1452 8.67
	2143 8.72		2021 2.42		2223 8.88		2103 2.63
5	0406 2.05	13	0219 8.90	21	0447 1.89	29	0304 8.66
	1009 8.76		0843 2.11		1048 8.67		0931 2.31
WE	1621 2.02	TH	1446 8.26	FR	1655 2.26	SA	1542 8.21
	2225 9.48		2053 2.97		2254 9.42	●	2157 3.15
6	0449 1.30	14	0251 8.24	22	0520 1.37	30	0400 7.96
	1051 9.34		0917 2.75		1120 9.09		1028 2.94
TH	1702 1.57	FR	1524 7.69	SA	1727 1.92	SU	1647 7.77
	2303 10.01	●	2133 3.59	●	2326 9.82		2312 3.60
7	0528 0.81	15	0331 7.50	23	0552 1.00		
	1128 9.69		0959 3.44		1152 9.38		
FR	1739 1.32	SA	1616 7.10	SU	1800 1.69		
○	2338 10.32		2232 4.23		2358 10.07		
8	0604 0.56	16	0434 6.75	24	0624 0.80		
	1203 9.84		1109 4.09		1224 9.52		
SA	1814 1.23	SU	1750 6.67	MO	1833 1.59		

## DECEMBER

Time	m	Time	m	Time	m	Time	m
1	0520 7.34	9	0033 9.95	17	0032 4.22	25	0102 10.20
	1147 3.44		0700 0.93		0638 6.47		0729 0.71
MO	1815 7.55	TU	1302 9.40	WE	1256 4.22	TH	1331 9.65
			1909 1.77		1936 7.11		1942 1.53
2	0055 3.66	10	0106 9.80	18	0218 3.90	26	0140 10.05
	0706 7.14		0731 1.12		0828 6.72		0806 0.89
TU	1326 3.53	WE	1333 9.26	TH	1432 3.99	FR	1410 9.56
	1954 7.81		1941 1.94		2052 7.60		2022 1.68
3	0231 3.15	11	0137 9.53	19	0327 3.21	27	0220 9.70
	0839 7.52		0801 1.41		0933 7.32		0844 1.25
WE	1450 3.18	TH	1403 9.03	FR	1536 3.48	SA	1450 9.33
	2106 8.38		2011 2.21		2145 8.24		2104 1.99
4	0338 2.43	12	0207 9.16	20	0416 2.47	28	0302 9.17
	0945 8.11		0829 1.77		1021 7.96		0924 1.75
TH	1552 2.70	FR	1434 8.73	SA	1625 2.93	SU	1533 8.97
	2201 8.98		2042 2.55		2228 8.89		2150 2.43
5	0430 1.78	13	0238 8.69	21	0458 1.81	29	0349 8.51
	1034 8.65		0900 2.21		1101 8.55		1009 2.35
FR	1642 2.27	SA	1507 8.36	SU	1706 2.42	MO	1622 8.51
	2244 9.46		2117 2.98		2308 9.44	●	2245 2.94
6	0513 1.30	14	0312 8.14	22	0536 1.28	30	0446 7.79
	1115 9.05		0933 2.73		1139 9.02		1104 3.02
SA	1723 1.96	SU	1544 7.93	MO	1746 2.00	TU	1724 8.02
○	2323 9.78	●	2159 3.47	●	2346 9.87		2359 3.38
7	0551 1.01	15	0353 7.50	23	0614 0.91	31	0604 7.16
	1153 9.30		1016 3.32		1216 9.37		1221 3.59
SU	1801 1.77	MO	1633 7.45	TU	1824 1.70	WE	1850 7.68
	2359 9.95		2256 3.96				
8	0627 0.89	16	0454 6.86	24	0024 10.13		
	1228 9.42		1115 3.90		0651 0.72		
MO	1836 1.71	TU	1748 7.08	WE	1253 9.59		
					1903 1.54		

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Bureau of Meteorology

National Tidal Centre

Height datum is Chart Datum

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter