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AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2015

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	0137 3.49	9	0126 9.72	17	0227 3.87	25	0212 10.18
	0749 6.98		0748 1.19		0842 6.61		0832 0.80
TH	1401 3.77	FR	1350 9.41	SA	1446 4.19	SU	1436 10.05
	2026 7.80		1959 1.83		2105 7.57		2053 1.30
2	0310 3.08	10	0154 9.52	18	0347 3.14	26	0250 9.68
	0921 7.35		0814 1.39		0957 7.32		0907 1.29
FR	1528 3.46	SA	1417 9.28	SU	1600 3.56	MO	1512 9.67
	2141 8.25		2027 2.00		2207 8.32		2131 1.77
3	0417 2.46	11	0222 9.21	19	0442 2.30	27	0328 8.99
	1025 7.94		0840 1.68		1049 8.11		0943 1.94
SA	1630 2.96	SU	1445 9.05	MO	1653 2.83	TU	1551 9.10
	2236 8.79		2056 2.28		2256 9.09	●	2213 2.41
4	0506 1.88	12	0251 8.79	20	0525 1.57	28	0411 8.16
	1111 8.49		0907 2.08		1130 8.84		1023 2.73
SU	1717 2.49	MO	1514 8.72	TU	1737 2.16	WE	1637 8.37
	2318 9.24		2128 2.67	●	2338 9.75		2307 3.16
5	0546 1.46	13	0321 8.26	21	0605 0.99	29	0507 7.27
	1148 8.92		0938 2.59		1208 9.44		1119 3.61
MO	1756 2.12	TU	1547 8.29	WE	1818 1.61	TH	1743 7.59
	2354 9.57	●	2205 3.15				
6	0620 1.19	14	0359 7.62	22	0017 10.22	30	0033 3.81
	1221 9.22		1013 3.21		0643 0.61		0647 6.55
TU	1830 1.88	WE	1628 7.77	TH	1245 9.90	FR	1302 4.28
			2256 3.69		1858 1.21		1941 7.16
7	0027 9.76	15	0451 6.92	23	0056 10.47	31	0243 3.78
	0652 1.07		1105 3.88		0721 0.45		0905 6.70
WE	1252 9.39	TH	1734 7.25	FR	1323 10.16	SA	1513 4.13
	1902 1.76				1937 1.01		2131 7.54
8	0057 9.80	16	0024 4.09	24	0135 10.46		
	0721 1.08		0634 6.39		0757 0.51		
TH	1322 9.45	FR	1246 4.38	SA	1359 10.21		
	1931 1.75		1930 7.09		2015 1.04		

FEBRUARY

Time	m	Time	m	Time	m	Time	m
1	0411 3.09	9	0202 9.61	17	0427 2.70	25	0304 9.23
	1025 7.46		0817 1.35		1037 7.95		0915 1.82
SU	1629 3.43	MO	1419 9.61	TU	1643 3.01	WE	1520 9.41
	2235 8.25		2034 1.70		2247 8.88		2143 2.11
2	0502 2.34	10	0227 9.28	18	0513 1.78	26	0339 8.38
	1109 8.21		0841 1.67		1118 8.90		0948 2.66
MO	1715 2.75	TU	1444 9.33	WE	1728 2.10	TH	1557 8.55
	2316 8.89		2100 2.02		2329 9.71	●	2224 3.01
3	0539 1.76	11	0253 8.82	19	0553 1.06	27	0423 7.41
	1142 8.80		0905 2.11		1155 9.69		1030 3.63
TU	1751 2.22	WE	1511 8.94	TH	1808 1.36	FR	1647 7.56
	2348 9.37		2129 2.47	●			2327 3.94
4	0610 1.37	12	0323 8.24	20	0007 10.32	28	0539 6.46
	1211 9.24		0933 2.69		0629 0.57		1151 4.59
WE	1821 1.84	TH	1541 8.41	FR	1230 10.29	SA	1840 6.72
○		●	2204 3.06		1846 0.82		
5	0017 9.70	13	0359 7.51	21	0044 10.66		
	0638 1.14		1007 3.42		0705 0.33		
TH	1238 9.54	FR	1623 7.74	SA	1305 10.64		
	1850 1.60		2258 3.76		1923 0.54		
6	0045 9.87	14	0458 6.68	22	0121 10.71		
	0705 1.04		1107 4.25		0739 0.35		
FR	1304 9.73	SA	1745 7.03	SU	1339 10.73		
	1916 1.46				1959 0.54		
7	0111 9.91	15	0106 4.23	23	0156 10.45		
	0730 1.04		0737 6.23		0813 0.63		
SA	1330 9.80	SU	1349 4.66	MO	1413 10.53		
	1942 1.42		2025 7.06		2034 0.84		
8	0137 9.82	16	0319 3.67	24	0230 9.94		
	0754 1.14		0938 6.94		0844 1.13		
SU	1354 9.76	MO	1542 3.98	TU	1447 10.08		
	2008 1.50		2152 7.91		2108 1.38		

MARCH

Time	m	Time	m	Time	m	Time	m
1	0208 4.33	9	0116 9.94	17	0246 3.95	25	0209 9.92
	0849 6.36		0730 1.14		0915 6.93		0821 1.30
SU	1504 4.57	MO	1329 10.08	TU	1525 4.08	WE	1421 10.16
	2123 7.05		1945 1.19		2135 7.72		2045 1.29
2	0401 3.58	10	0140 9.78	18	0405 2.95	26	0241 9.25
	1019 7.28		0753 1.31		1017 8.05		0851 1.95
MO	1623 3.69	TU	1353 9.95	WE	1628 2.97	TH	1453 9.45
	2228 7.91		2010 1.35		2230 8.78		2117 2.03
3	0449 2.72	11	0205 9.50	19	0453 1.99	27	0314 8.47
	1057 8.14		0815 1.58		1058 9.09		0921 2.75
TU	1705 2.87	WE	1417 9.70	TH	1712 1.95	FR	1526 8.59
	2305 8.67		2035 1.63		2313 9.66	●	2152 2.91
4	0524 2.05	12	0229 9.11	20	0532 1.25	28	0352 7.58
	1126 8.83		0839 1.98		1133 9.93		0958 3.66
WE	1736 2.23	TH	1441 9.33	FR	1751 1.15	SA	1609 7.61
	2334 9.24		2101 2.06	●	2350 10.28		2242 3.85
5	0552 1.60	13	0257 8.59	21	0608 0.76	29	0454 6.66
	1152 9.34		0905 2.51		1207 10.54		1104 4.62
TH	1804 1.77	FR	1510 8.81	SA	1828 0.61	SU	1736 6.65
			2133 2.65				
6	0000 9.63	14	0330 7.90	22	0026 10.61	30	0055 4.55
	0618 1.31		0936 3.23		0643 0.52		0801 6.31
FR	1216 9.71	SA	1547 8.09	SU	1242 10.88	MO	1431 4.80
○	1831 1.45	●	2218 3.43		1904 0.34		2047 6.72
7	0026 9.87	15	0419 7.03	23	0101 10.65	31	0327 4.01
	0643 1.15		1025 4.13		0717 0.54		0950 7.15
SA	1240 9.95	SU	1650 7.21	MO	1316 10.92	TU	1559 3.91
	1856 1.25		2354 4.22		1939 0.39		2202 7.57
8	0050 9.97	16	0631 6.29	24	0136 10.40		
	0706 1.09		1259 4.81		0749 0.81		
SU	1304 10.08	MO	1947 6.86	TU	1349 10.67		
	1921 1.16				2013 0.72		

APRIL

Time	m	Time	m	Time	m	Time	m
1	0421 3.17	9	0144 9.49	17	0423 2.27	25	0257 8.51
	1030 8.03		0754 1.73		1029 9.18		0904 2.83
WE	1640 3.03	TH	1354 9.81	FR	1648 1.87	SA	1506 8.59
	2240 8.36		2015 1.50		2249 9.42		2132 2.77
2	0456 2.48	10	0211 9.15	18	0505 1.61	26	0335 7.80
	1058 8.75		0819 2.08		1107 9.96		0943 3.58
TH	1711 2.34	FR	1420 9.45	SA	1729 1.14	SU	1547 7.74
	2310 8.97		2043 1.91		2328 9.96	●	2217 3.58
3	0524 1.99	11	0241 8.69	19	0543 1.18	27	0430 7.06
	1123 9.30		0847 2.58		1142 10.48		1042 4.36
FR	1739 1.82	SA	1451 8.93	SU	1806 0.67	MO	1656 6.89
	2336 9.40		2117 2.49	●			2337 4.30
4	0550 1.66	12	0317 8.06	20	0005 10.24	28	0626 6.56
	1148 9.72		0923 3.25		0619 0.98		1305 4.76
SA	1805 1.45	SU	1531 8.20	MO	1217 10.75	29	0210 4.32
○		●	2204 3.25		1843 0.48		0842 6.97
5	0001 9.68	13	0409 7.29	21	0041 10.28	29	0210 4.32
	0615 1.46		1020 4.07		0654 0.99		0842 6.97
SU	1212 10.00	MO	1639 7.33	TU	1252 10.74	WE	1506 4.16
	1831 1.21		2331 4.00		1918 0.55		2111 7.14
6	0026 9.82	14	0606 6.68	22	0116 10.08	30	0330 3.70
	0640 1.36		1238 4.61		0728 1.21		0942 7.73
MO	1237 10.15	TU	1913 6.95	WE	1326 10.47	TH	1600 3.34
	1857 1.09				1952 0.87		2202 7.86
7	0052 9.83	15	0203 3.95	23	0150 9.69		
	0704 1.37		0835 7.17		0800 1.62		
TU	1302 10.16	WE	1455 3.92	TH	1359 9.99		
	1923 1.10		2105 7.68		2025 1.38		
8	0118 9.72	16	0330 3.12	24	0224 9.14		
	0729 1.50		0944 8.21		0832 2.17		
WE	1328 10.05	TH	1602 2.84	FR	1432 9.34		
	1949 1.23		2205 8.63		2057 2.03		

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Bureau of Meteorology

National Tidal Centre

Height datum is Lowest Astronomical Tide

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2015

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	0414 3.05	9	0201 9.08	17	0436 2.10	25	0321 8.14
FR	1018 8.44	0808 2.20	1039 9.66	0931 3.24	1042 9.01	0933 2.75	1143 9.71
	1636 2.62	SA	1409 9.42	SU	1706 1.36	MO	1531 8.02
	2236 8.47		2034 1.84		2307 9.40		2155 3.10
2	0447 2.53	10	0235 8.70	18	0518 1.73	26	0406 7.60
SA	1048 9.03	0843 2.62	1119 10.08	1020 3.82	1114 9.41	1032 3.19	1802 1.83
	1708 2.04	SU	1446 8.92	MO	1746 0.98	TU	1623 7.32
	2306 8.95		2112 2.36		2346 9.65		2249 3.73
3	0517 2.15	11	0317 8.21	19	0558 1.53	27	0512 7.10
SU	1115 9.48	0926 3.18	1156 10.29	1138 4.30	1147 9.69	1151 3.48	1801 7.44
	1736 1.61	MO	1532 8.26	TU	1824 0.82	WE	1748 6.76
	2334 9.28		2203 3.00				
4	0545 1.89	12	0414 7.64	20	0024 9.74	28	0018 4.18
MO	1142 9.80	1031 3.79	0635 1.49	0701 6.93	0622 1.92	1220 9.85	1847 1.16
	1805 1.33	TU	1644 7.55	WE	1233 10.29	TH	1337 4.27
			2320 3.59		1902 0.86		1949 6.75
5	0002 9.48	13	0548 7.25	21	0101 9.65	29	0206 4.10
	0613 1.74	1219 4.10	0711 1.60	0832 7.32	0656 1.85	0817 8.07	2100 7.99
	1209 9.99	WE	1838 7.20	TH	1309 10.10	FR	1500 3.71
	1833 1.16				1937 1.08		2105 7.22
6	0031 9.55	14	0113 3.72	22	0136 9.41	30	0316 3.65
	0640 1.69	0744 7.50	0746 1.86	0926 7.91	0730 1.90	0924 8.58	2202 8.29
	1238 10.05	TH	1414 3.63	FR	1344 9.74	SA	1552 3.03
	1902 1.13		2025 7.61		2010 1.46		2154 7.79
7	0100 9.51	15	0245 3.25	23	0210 9.06	31	0403 3.14
	0709 1.74	0902 8.25	0819 2.23	0819 2.23	1007 8.50	1007 8.50	2233 8.32
	1307 9.97	FR	1528 2.77	SA	1417 9.25	SA	1632 2.41
	1932 1.23		2133 8.31		2042 1.94		
8	0130 9.35	16	0347 2.62	24	0245 8.63		
	0738 1.91	0956 9.03	0853 2.70	0853 2.70	1047 9.04	1103 9.46	2409 3.12
	1337 9.76	SA	1621 1.97	SU	1452 8.67	TU	1732 1.37
	2002 1.47		2224 8.94		2116 2.49		2334 9.04

JUNE

Time	m	Time	m	Time	m	Time	m
1	0441 2.69	9	0319 8.57	17	0544 1.99	25	0421 7.71
MO	1042 9.01	0933 2.75	1143 9.71	0624 1.83	1042 9.01	0933 2.75	1143 9.71
	1707 1.90	TU	1536 8.48	WE	1812 1.16	TH	1640 7.19
	2308 8.73		2200 2.54				2258 3.64
2	0515 2.34	10	0412 8.19	18	0014 9.24	26	0520 7.26
	1114 9.41	1032 3.19	0624 1.83	0624 1.83	1114 9.41	1032 3.19	1802 1.83
	1740 1.53	WE	1638 7.88	TH	1221 9.82	FR	1759 6.69
	2340 9.03		2302 3.07		1850 1.10		
3	0548 2.08	11	0521 7.85	19	0050 9.32	27	0016 4.08
	1147 9.69	1151 3.48	0700 1.78	0700 1.78	1147 9.69	1151 3.48	1801 7.44
	1814 1.28	TH	1801 7.44	FR	1257 9.78	SA	1336 3.98
					1924 1.18		1949 6.64
4	0014 9.22	12	0024 3.42	20	0125 9.28	28	0158 4.10
	0622 1.92	1206 7.76	0735 1.85	0822 7.31	0622 1.92	1206 7.76	0735 1.85
	1220 9.85	FR	1328 3.38	SA	1331 9.60	SU	1457 3.51
	1847 1.16		1939 7.41		1956 1.38		2106 7.05
5	0047 9.31	13	0155 3.39	21	0158 9.13	29	0312 3.74
	0656 1.85	0817 8.07	0807 2.04	0924 7.83	0656 1.85	0817 8.07	0807 2.04
	1254 9.87	SA	1451 2.88	SU	1404 9.29	MO	1554 2.88
	1921 1.17		2100 7.79		2027 1.68		2201 7.61
6	0121 9.29	14	0311 3.05	22	0229 8.89	30	0406 3.23
	0730 1.90	0924 8.58	0839 2.31	1011 8.41	0121 9.29	0730 1.90	0924 8.58
	1330 9.75	SU	1555 2.27	MO	1554 2.88	TU	1640 2.26
	1956 1.32		2202 8.29		2058 2.06		2244 8.15
7	0157 9.15	15	0411 2.63	23	0302 8.57		
	0807 2.07	1018 9.08	0913 2.68	0913 2.68	0157 9.15	0807 2.07	1018 9.08
	1406 9.47	MO	1647 1.74	TU	1509 8.40	MO	1647 1.74
	2032 1.61		2251 8.72		2130 2.52		
8	0236 8.91	16	0501 2.26	24	0337 8.17		
	0846 2.36	1103 9.46	0951 3.12	0951 3.12	0236 8.91	0846 2.36	1103 9.46
	1447 9.04	TU	1732 1.37	WE	1549 7.81	MO	1447 9.04
	2113 2.03		2334 9.04		2208 3.07		

JULY

Time	m	Time	m	Time	m	Time	m
1	0451 2.74	9	0354 8.74	17	0006 9.03	25	0413 7.74
WE	1052 8.95	1016 2.52	0617 1.88	1039 3.45	1158 9.82	1152 3.42	1802 6.75
	1720 1.74	TH	1617 8.18	FR	1214 9.56	SA	1636 6.99
	2323 8.63		2235 2.63		1839 1.15		2249 3.71
2	0531 2.30	10	0448 8.27	18	0039 9.26	26	0509 7.19
	1131 9.41	1117 2.99	0650 1.69	1151 3.92	1151 3.92	1800 6.42	1800 6.42
	1758 1.33	FR	1722 7.53	SA	1247 9.67	SU	1800 6.42
			2338 3.23		1910 1.11		
3	0000 9.02	11	0559 7.83	19	0110 9.37	27	0010 4.26
	0609 1.95	1240 3.31	0721 1.62	0653 6.87	0716 1.00	0849 7.31	1905 9.62
	1208 9.74	SA	1852 7.09	SU	1317 9.64	MO	1351 3.94
	1836 1.06				1939 1.18		2010 6.41
4	0037 9.31	12	0106 3.62	20	0139 9.37	28	0216 4.25
	0647 1.69	0733 7.67	0751 1.67	0839 7.18	0754 0.94	0924 8.58	2202 8.29
	1246 9.93	SU	1417 3.20	MO	1347 9.47	TU	1519 3.37
	1913 0.93		2031 7.16		2006 1.35		2133 6.99
5	0114 9.48	13	0241 3.55	21	0208 9.25	29	0338 3.71
	0725 1.56	0900 7.93	0820 1.82	0947 7.85	0832 1.10	1056 8.65	2202 8.29
	1324 9.93	MO	1539 2.72	TU	1415 9.18	WE	1620 2.61
	1950 0.97		2150 7.62		2033 1.63		2228 7.74
6	0151 9.50	14	0359 3.13	22	0235 9.03	30	0434 3.00
	0804 1.58	1007 8.43	0848 2.08	1037 8.60	0909 1.49	1132 9.17	2202 8.29
	1403 9.73	TU	1639 2.15	WE	1443 8.78	TH	1706 1.88
	2027 1.18		2247 8.19		2100 2.00		2310 8.46
7	0230 9.38	15	0455 2.62	23	0304 8.70	31	0518 2.33
	0844 1.76	1058 8.92	0919 2.45	0919 2.45	0951 2.05	1202 9.53	2302 2.42
	1443 9.35	WE	1725 1.67	TH	1514 8.27	FR	1746 1.28
	2105 1.54		2329 8.67		2129 2.49		2348 9.09
8	0310 9.12	16	0539 2.19	24	0336 8.26		
	0927 2.09	1139 9.31	0954 2.92	0954 2.92	0412 8.49	1040 2.74	1602 7.50
	1526 8.82	TH	1805 1.34	FR	1550 7.66	SA	1642 7.50
	2146 2.04				2204 3.08		2253 3.22

AUGUST

Time	m	Time	m	Time	m	Time	m
1	0558 1.74	9	0511 7.73	17	0050 9.62	25	0511 6.85
SA	1158 9.82	1152 3.42	0703 1.29	0703 1.29	1158 9.82	1152 3.42	1802 6.75
	1824 0.84	SU	1802 6.75	MO	1258 9.77	TU	1854 6.09
					1916 1.02		
2	0025 9.58	10	0017 3.95	18	0115 9.69	26	0112 4.62
	0638 1.28	0650 7.15	0729 1.27	0755 6.71	0638 1.28	0650 7.15	0729 1.27
	1236 10.15	MO	1348 3.67	TU	1324 9.67	WE	1448 3.78
	1900 0.59		2011 6.60		1941 1.14		2112 6.65
3	0101 9.92	11	0225 4.05	19	0140 9.62	27	0318 4.03
	0716 1.00	0849 7.31	0755 1.37	0929 7.48	0716 1.00	0849 7.31	0755 1.37
	1313 10.25	TU	1533 3.16	WE	1350 9.44	TH	1602 2.88
	1937 0.56		2152 7.22		2005 1.36		2215 7.61
4	0137 10.05	12	0359 3.44	20	0206 9.43	28	0421 3.09
	0754 0.94	1008 7.97	0821 1.59	1024 8.44	0137 10.05	0754 0.94	1008 7.97
	1351 10.09	WE	1635 2.43	TH	1415 9.09	FR	1649 1.97
	2012 0.75		2246 8.00		2029 1.69		2256 8.56
5	0213 9.95	13	0454 2.71	21	0231 9.13	29	0506 2.17
	0832 1.10	1056 8.65	0848 1.92	1106 9.31	0213 9.95	0832 1.10	1056 8.65
	1429 9.69	TH	1719 1.80	FR	1442 8.63	SA	1729 1.22
	2047 1.15		2324 8.64		2053 2.13		2332 9.38
6	0250 9.64	14	0533 2.12	22	0256 8.71	30	0545 1.39
	0909 1.49	1132 9.17	0916 2.37	1144 9.98	0909 1.49	1132 9.17	0916 2.37
	1507 9.08	FR	1753 1.37	SA	1510 8.06	SU	1805 0.68
	2123 1.71		2355 9.11		2121 2.68		
7	0328 9.15	15	0606 1.70	23	0326 8.19	31	0006 10.01
	0951 2.05	1202 9.53	0949 2.93	0622 0.81	0328 9.15	0951 2.05	1202 9.53
	1550 8.34	SA	1824 1.11	SU	1545 7.39	MO	1221 10.40
	2202 2.42				2153 3.35		1841 0.38
8	0412 8.49	16	0023 9.43	24	0403 7.55		
	1040 2.74	0636 1.43	1037 3.60	0403 7.55	0412 8.49	1040 2.74	1602 7.50
	1642 7.50	SU	1231 9.72	MO	1636 6.63	SA	1642 7.50
	2253 3.22		1851 1.00		2245 4.12		

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National Tidal Centre

Height datum is Lowest Astronomical Tide

Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

AUSTRALIA, NORTH-WEST COAST – YAMPI SOUND (KOOLAN ISLAND) 2015

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	0041 10.42	9	0222 4.41	17	0112 9.91	25	0258 4.14
	0659 0.46		0845 6.87		0730 1.07		0909 7.31
TU	1257 10.52	WE	1526 3.53	TH	1325 9.57	FR	1537 3.09
	1916 0.34		2149 7.12		1937 1.33		2152 7.72
2	0116 10.56	10	0357 3.56	18	0136 9.73	26	0404 3.02
	0736 0.41		1004 7.72		0754 1.27		1006 8.38
WE	1333 10.33	TH	1625 2.66	FR	1349 9.26	SA	1627 2.10
	1951 0.56		2235 8.03		2000 1.63		2233 8.79
3	0150 10.41	11	0444 2.67	19	0200 9.44	27	0447 1.95
	0812 0.64		1046 8.52		0819 1.58		1049 9.33
TH	1409 9.87	FR	1703 1.95	SA	1414 8.86	SU	1706 1.31
	2024 1.01		2308 8.76		2024 2.03		2309 9.69
4	0224 10.00	12	0519 1.99	20	0224 9.04	28	0526 1.09
	0847 1.13		1117 9.12		0845 2.01		1126 10.03
FR	1444 9.21	SA	1734 1.47	SU	1441 8.36	MO	1743 0.76
	2056 1.66		2334 9.29		2048 2.54		2343 10.35
5	0259 9.36	13	0548 1.51	21	0251 8.54	29	0602 0.49
	0924 1.82		1145 9.53		0914 2.56		1202 10.44
SA	1521 8.40	SU	1801 1.18	MO	1512 7.73	TU	1818 0.48
●	2131 2.44	●		●	2119 3.18		
6	0337 8.55	14	0000 9.65	22	0325 7.87	30	0017 10.75
	1005 2.66		0614 1.21		0955 3.28		0639 0.17
SU	1605 7.49	MO	1210 9.76	TU	1556 6.96	WE	1238 10.54
	2213 3.34		1826 1.05		2202 3.99		1852 0.45
7	0426 7.61	15	0024 9.87	23	0418 7.05		
	1105 3.56		0640 1.04		1114 4.05		
MO	1715 6.59	TU	1236 9.83	WE	1741 6.20		
	2328 4.25		1850 1.04				
8	0602 6.74	16	0047 9.96	24	0006 4.73		
	1316 4.10		0705 1.00		0704 6.52		
TU	1958 6.31	WE	1300 9.77	TH	1410 4.02		
			1913 1.13		2045 6.63		

OCTOBER

Time	m	Time	m	Time	m	Time	m
1	0052 10.84	9	0337 3.72	17	0110 9.87	25	0336 2.95
	0715 0.16		0943 7.42		0731 1.13		0940 8.23
TH	1313 10.34	FR	1558 3.06	SA	1328 9.30	SU	1555 2.39
	1927 0.69		2210 7.98		1937 1.74		2204 8.91
2	0125 10.62	10	0423 2.79	18	0135 9.60	26	0423 1.88
	0750 0.46		1024 8.25		0757 1.41		1025 9.13
FR	1348 9.88	SA	1637 2.34	SU	1354 8.96	MO	1639 1.65
	2000 1.15		2242 8.74		2002 2.09		2242 9.77
3	0200 10.13	11	0456 2.05	19	0201 9.24	27	0504 1.04
	0824 1.02		1054 8.89		0824 1.80		1105 9.78
SA	1422 9.22	SU	1707 1.82	MO	1422 8.54	TU	1717 1.15
	2033 1.80		2308 9.30		2029 2.54	○	2318 10.38
4	0234 9.42	12	0524 1.52	20	0231 8.75	28	0542 0.49
	0859 1.76		1121 9.34		0855 2.33		1142 10.15
SU	1458 8.45	MO	1734 1.50	TU	1456 7.99	WE	1755 0.89
	2106 2.57		2332 9.70		2102 3.14		2354 10.72
5	0309 8.56	13	0550 1.17	21	0307 8.09	29	0619 0.22
	0937 2.62		1146 9.61		0936 3.02		1219 10.25
MO	1538 7.59	TU	1759 1.33	WE	1542 7.30	TH	1831 0.85
●	2146 3.45	●	2356 9.96	●	2151 3.89		
6	0352 7.59	14	0615 0.96	22	0402 7.27	30	0029 10.77
	1028 3.55		1212 9.73		1047 3.79		0656 0.25
TU	1639 6.72	WE	1824 1.28	TH	1714 6.63	FR	1255 10.10
	2252 4.36				2342 4.54		1906 1.04
7	0515 6.63	15	0021 10.06	23	0617 6.66	31	0105 10.54
	1219 4.28		0640 0.90		1316 4.02		0732 0.54
WE	1920 6.31	TH	1237 9.70	FR	1957 6.86	SA	1331 9.73
			1847 1.34				1942 1.43
8	0158 4.60	16	0045 10.03	24	0223 4.05		
	0817 6.58		0706 0.96		0835 7.23		
TH	1456 3.89	FR	1303 9.55	SA	1458 3.29		
	2123 7.06		1912 1.49		2117 7.86		

NOVEMBER

Time	m	Time	m	Time	m	Time	m
1	0140 10.06	9	0424 2.42	17	0150 9.38	25	0442 1.33
	0807 1.05		1025 8.36		0815 1.62		1045 9.21
SU	1407 9.20	MO	1633 2.45	TU	1416 8.73	WE	1654 1.77
	2016 1.97		2235 8.99		2024 2.49		2256 10.01
2	0215 9.41	10	0455 1.82	18	0223 8.94	26	0524 0.83
	0841 1.71		1055 8.86		0849 2.08		1126 9.58
MO	1443 8.57	TU	1703 2.06	WE	1453 8.31	TH	1736 1.49
	2051 2.63		2302 9.45		2102 2.98	○	2336 10.32
3	0251 8.63	11	0524 1.39	19	0303 8.35	27	0604 0.57
	0917 2.47		1122 9.21		0932 2.68		1205 9.75
TU	1523 7.88	WE	1732 1.81	TH	1542 7.79	FR	1815 1.38
●	2131 3.37		2329 9.76	●	2155 3.57		
4	0332 7.77	12	0552 1.11	20	0400 7.62	28	0014 10.40
	1002 3.28		1150 9.40		1035 3.33		0643 0.55
WE	1616 7.16	TH	1759 1.68	FR	1658 7.30	SA	1243 9.74
	2228 4.13	●	2356 9.93		2324 4.05		1853 1.43
5	0435 6.90	13	0619 0.99	21	0539 7.03	29	0051 10.27
	1114 4.04		1218 9.46		1217 3.73		0720 0.72
TH	1753 6.62	FR	1826 1.65	SA	1852 7.27	SU	1321 9.56
							1930 1.64
6	0034 4.59	14	0024 9.96	22	0132 3.84	30	0128 9.95
	0657 6.43		0647 0.98		0744 7.18		0755 1.07
FR	1338 4.22	SA	1246 9.41	SU	1404 3.46	MO	1357 9.26
	2016 6.90		1854 1.72		2028 7.90		2006 1.98
7	0248 4.05	15	0052 9.88	23	0258 3.00		
	0853 6.94		0716 1.09		0905 7.88		
SA	1509 3.65	SU	1315 9.27	MO	1516 2.83		
	2125 7.65		1922 1.88		2128 8.74		
8	0346 3.19	16	0120 9.69	24	0355 2.08		
	0949 7.70		0744 1.30		1000 8.63		
SU	1558 3.00	MO	1344 9.05	TU	1609 2.22		
	2204 8.39		1951 2.13		2216 9.48		

DECEMBER

Time	m	Time	m	Time	m	Time	m
1	0203 9.47	9	0424 2.42	17	0224 9.29	25	0515 1.38
	0829 1.55		1027 8.12		0848 1.67		1118 8.94
TU	1432 8.85	WE	1632 2.79	TH	1454 8.85	FR	1727 2.07
	2041 2.44		2233 8.89		2105 2.49	○	2327 9.75
2	0239 8.88	10	0459 1.88	18	0305 8.78	26	0557 1.03
	0902 2.12		1101 8.58		0928 2.16		1200 9.27
WE	1509 8.37	TH	1706 2.42	FR	1538 8.48	SA	1808 1.80
	2119 2.97		2306 9.31	●	2154 2.94		
3	0316 8.20	11	0532 1.47	19	0355 8.14	27	0007 9.97
	0940 2.75		1132 8.92		1019 2.74		0636 0.86
TH	1551 7.83	FR	1739 2.14	SA	1636 8.06	SU	1238 9.48
●	2204 3.57	●	2337 9.62		2300 3.38		1847 1.65
4	0402 7.46	12	0603 1.20	20	0505 7.50	28	0045 10.04
	1027 3.44		1204 9.15		1128 3.30		0711 0.84
FR	1648 7.28	SA	1811 1.96	SU	1754 7.75	MO	1313 9.55
	2310 4.13						1923 1.63
5	0513 6.77	13	0009 9.80	21	0033 3.57	29	0120 9.94
	1141 4.04		0635 1.05		0644 7.15		0745 0.98
SA	1822 6.94	SU	1236 9.28	MO	1302 3.57	TU	1347 9.47
			1843 1.85		1931 7.82		1957 1.76
6	0107 4.30	14	0040 9.88	22	0212 3.23	30	0153 9.68
	0719 6.51		0706 1.02		0823 7.37		0816 1.26
SU	1337 4.17	MO	1308 9.33	TU	1433 3.37	WE	1419 9.28
	2010 7.18		1916 1.84		2052 8.28		2029 2.01
7	0247 3.80	15	0113 9.83	23	0328 2.57	31	0224 9.29
	0852 6.94		0739 1.10		0936 7.91		0846 1.65
MO	1500 3.78	TU	1341 9.28	WE	1543 2.92	TH	1451 8.98
	2114 7.75		1949 1.94		2153 8.86		2101 2.37
8	0343 3.09	16	0147 9.64	24	0426 1.90		
	0947 7.55		0813 1.31		1032 8.48		
TU	1552 3.27	WE	1416 9.12	TH	1639 2.46		
	2157 8.35		2025 2.15		2244 9.37		

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Moon Symbols

● New Moon

◐ First Quarter

○ Full Moon

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