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BOTANY BAY – NEW SOUTH WALES

LAT 33° 58' LONG 151° 13'

Times and Heights of High and Low Waters

2018

Local Time

JANUARY

	Time	m		Time	m
1 MO	0142	0.33	16 TU	0215	0.52
	0815	1.94		0850	1.71
	1454	0.18		1529	0.39
	2051	1.46		2119	1.31
2 TU ○	0234	0.31	17 WE ●	0252	0.50
	0907	2.02		0927	1.74
	1547	0.11		1603	0.37
	2146	1.47		2156	1.33
3 WE	0328	0.31	18 TH	0329	0.50
	0959	2.06		1001	1.76
	1640	0.09		1637	0.36
	2241	1.47		2231	1.34
4 TH	0421	0.33	19 FR	0406	0.50
	1050	2.04		1037	1.75
	1731	0.11		1712	0.36
	2334	1.46		2309	1.35
5 FR	0515	0.38	20 SA	0445	0.51
	1142	1.96		1113	1.72
	1823	0.18		1747	0.37
				2347	1.35
6 SA	0028	1.44	21 SU	0527	0.53
	0612	0.44		1149	1.68
	1232	1.84		1824	0.39
	1914	0.26			
7 SU	0122	1.41	22 MO	0029	1.36
	0709	0.52		0611	0.56
	1323	1.69		1229	1.61
	2004	0.35		1903	0.41
8 MO	0218	1.40	23 TU	0115	1.37
	0809	0.60		0700	0.60
	1416	1.53		1312	1.53
	2054	0.44		1945	0.44
9 TU ◐	0316	1.40	24 WE	0204	1.39
	0914	0.66		0756	0.63
	1515	1.39		1402	1.44
	2144	0.51		2033	0.47
10 WE	0415	1.42	25 TH ◑	0300	1.43
	1025	0.68		0902	0.63
	1617	1.28		1503	1.37
	2233	0.55		2128	0.48
11 TH	0511	1.46	26 FR	0400	1.49
	1136	0.67		1018	0.60
	1722	1.23		1615	1.31
	2322	0.56		2228	0.48
12 FR	0603	1.51	27 SA	0503	1.58
	1240	0.62		1135	0.53
	1822	1.21		1732	1.31
				2330	0.46
13 SA	0010	0.56	28 SU	0605	1.70
	0651	1.56		1245	0.41
	1331	0.56		1842	1.34
	1915	1.23			
14 SU	0054	0.55	29 MO	0030	0.42
	0734	1.62		0704	1.82
	1415	0.49		1347	0.29
	2000	1.25		1944	1.39
15 MO	0135	0.54	30 TU	0128	0.37
	0814	1.67		0800	1.93
	1453	0.44		1443	0.19
	2041	1.28		2040	1.44
			31 WE ○	0223	0.32
				0854	2.00
				1533	0.12
				2132	1.49

FEBRUARY

	Time	m		Time	m
1 TH	0316	0.29	16 FR ●	0313	0.46
	0945	2.03		0939	1.74
	1622	0.11		1610	0.34
	2223	1.52		2206	1.42
2 FR	0409	0.29	17 SA	0350	0.44
	1035	2.00		1015	1.74
	1709	0.14		1642	0.33
	2312	1.52		2242	1.45
3 SA	0500	0.33	18 SU	0430	0.44
	1123	1.91		1051	1.72
	1755	0.20		1715	0.34
				2319	1.48
4 SU	0000	1.51	19 MO	0511	0.45
	0553	0.39		1129	1.67
	1210	1.77		1751	0.36
	1838	0.30			
5 MO	0048	1.49	20 TU	0000	1.50
	0645	0.47		0556	0.47
	1256	1.61		1209	1.60
	1921	0.40		1829	0.40
6 TU	0137	1.46	21 WE	0043	1.51
	0740	0.56		0645	0.51
	1343	1.45		1253	1.51
	2003	0.50		1909	0.45
7 WE	0228	1.43	22 TH	0130	1.51
	0840	0.64		0741	0.55
	1433	1.31		1344	1.40
	2048	0.57		1956	0.50
8 TH ◐	0323	1.42	23 FR ◑	0226	1.52
	0946	0.69		0847	0.57
	1533	1.20		1446	1.31
	2140	0.63		2053	0.55
9 FR	0423	1.42	24 SA	0330	1.54
	1059	0.69		1004	0.56
	1644	1.15		1603	1.26
	2237	0.65		2201	0.57
10 SA	0523	1.45	25 SU	0440	1.60
	1208	0.65		1124	0.50
	1754	1.16		1725	1.26
	2334	0.65		2313	0.55
11 SU	0617	1.50	26 MO	0548	1.69
	1304	0.58		1234	0.40
	1852	1.19		1836	1.32
12 MO	0028	0.62	27 TU	0019	0.49
	0706	1.56		0650	1.79
	1350	0.52		1334	0.30
	1940	1.25		1935	1.41
13 TU	0115	0.58	28 WE	0119	0.41
	0748	1.62		0746	1.88
	1429	0.45		1426	0.22
	2020	1.30		2028	1.49
14 WE	0157	0.53			
	0828	1.68			
	1503	0.40			
	2057	1.34			
15 TH	0235	0.49			
	0904	1.72			
	1537	0.36			
	2131	1.38			

MARCH

	Time	m		Time	m
1 TH	0215	0.34	16 FR	0215	0.50
	0839	1.93		0835	1.69
	1514	0.17		1502	0.37
	2115	1.55		2103	1.49
2 FR ○	0306	0.30	17 SA ●	0254	0.45
	0929	1.93		0912	1.71
	1558	0.17		1534	0.34
	2201	1.60		2138	1.55
3 SA	0356	0.29	18 SU	0332	0.41
	1015	1.88		0949	1.72
	1640	0.21		1607	0.33
	2245	1.62		2214	1.61
4 SU	0445	0.32	19 MO	0414	0.39
	1100	1.78		1028	1.69
	1720	0.28		1642	0.34
	2329	1.61		2252	1.65
5 MO	0533	0.38	20 TU	0458	0.38
	1145	1.66		1109	1.64
	1758	0.38		1718	0.37
				2332	1.67
6 TU	0011	1.59	21 WE	0545	0.40
	0622	0.46		1153	1.56
	1228	1.51		1758	0.43
	1834	0.48			
7 WE	0054	1.54	22 TH	0016	1.67
	0713	0.54		0637	0.44
	1311	1.38		1242	1.46
	1912	0.57		1841	0.50
8 TH	0138	1.50	23 FR	0105	1.66
	0806	0.62		0736	0.48
	1358	1.26		1337	1.36
	1952	0.65		1930	0.57
9 FR ◐	0229	1.46	24 SA	0201	1.63
	0907	0.67		0844	0.51
	1454	1.18		1445	1.28
	2044	0.71		2032	0.64
10 SA	0327	1.43	25 SU ◑	0308	1.62
	1015	0.68		1000	0.51
	1606	1.14		1604	1.26
	2147	0.74		2147	0.66
11 SU	0432	1.43	26 MO	0422	1.64
	1125	0.66		1114	0.47
	1723	1.16		1723	1.30
	2257	0.74		2303	0.62
12 MO	0536	1.46	27 TU	0533	1.69
	1226	0.60		1219	0.40
	1825	1.21		1829	1.38
13 TU	0000	0.70	28 WE	0012	0.55
	0630	1.52		0635	1.75
	1314	0.54		1315	0.33
	1913	1.28		1922	1.48
14 WE	0052	0.63	29 TH	0112	0.46
	0716	1.58		0730	1.80
	1354	0.47		1403	0.28
	1953	1.35		2011	1.57
15 TH	0136	0.57	30 FR	0205	0.39
	0757	1.64		0821	1.81
	1429	0.42		1446	0.27
	2029	1.42		2055	1.64
			31 SA ○	0256	0.34
				0908	1.79
				1527	0.28
				2137	1.69

APRIL

	Time	m		Time	m
1 SU	0243	0.33	16 MO ●	0215	0.40
	0853	1.73		0822	1.67
	1505	0.33		1430	0.36
	2118	1.72		2045	1.78
2 MO	0329	0.36	17 TU	0259	0.35
	0937	1.64		0906	1.64
	1541	0.40		1508	0.37
	2157	1.71		2126	1.83
3 TU	0415	0.40	18 WE	0346	0.34
	1019	1.53		0953	1.59
	1615	0.48		1548	0.42
	2235	1.69		2210	1.85
4 WE	0500	0.46	19 TH	0438	0.35
	1100	1.43		1043	1.51
	1649	0.56		1632	0.48
	2314	1.64		2257	1.84
5 TH	0545	0.53	20 FR	0533	0.38
	1143	1.33		1137	1.43
	1724	0.64		1721	0.56
	2353	1.59		2348	1.80
6 FR	0635	0.59	21 SA	0635	0.42
	1229	1.25		1238	1.35
	1803	0.72		1816	0.64
7 SA	0038	1.53	22 SU	0046	1.75
	0730	0.64		0742	0.45
	1323	1.20		1347	1.31
	1854	0.78		1923	0.70
8 SU ◐	0132	1.48	23 MO ◑	0154	1.70
	0831	0.66		0852	0.46
	1430	1.18		1503	1.32
	1959	0.82		2039	0.71
9 MO	0237	1.45	24 TU	0307	1.67
	0936	0.65		0958	0.45
	1545	1.20		1614	1.38
	2114	0.82		2155	0.68
10 TU	0345	1.46	25 WE	0415	1.68
	1036	0.62		1056	0.42
	1647	1.26		1713	1.47
	2223	0.77		2302	0.61
11 WE	0445	1.50	26 TH	0516	1.69
	1126	0.56		1147	0.39
	1737	1.34		1803	1.56
	2320	0.70			
12 TH	0535	1.55	27 FR	0002	0.53
	1208	0.50		0610	1.69
	1817	1.43		1232	0.38
				1849	1.65
13 FR	0008	0.62	28 SA	0055	0.46
	0619	1.60		0700	1.67
	1245	0.45		1314	0.38
	1854	1.52		1931	1.72
14 SA	0050	0.54	29 SU	0144	0.42
	0700	1.64		0745	1.63
	1319	0.40		1351	0.41
	1930	1.61		2012	1.77
15 SU	0131	0.46	30 MO ○	0229	0.41
	0740	1.67		0830	1.57
	1354	0.37		1427	0.45
	2007	1.70		2049	1.79

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Datum of Predictions is Lowest Astronomical Tide Caution: Predictions are of secondary quality

Times are in local standard time (UTC +10:00) or daylight savings time (UTC +11:00) when in effect

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

BOTANY BAY – NEW SOUTH WALES

LAT 33° 58' LONG 151° 13'

Times and Heights of High and Low Waters

2018

Local Time

MAY

	Time	m		Time	m
1 TU	0312	0.42	16 WE	0245	0.32
	0912	1.50		0845	1.58
	1500	0.51		1437	0.41
	2126	1.79		2103	1.98
2 WE	0354	0.44	17 TH	0336	0.29
	0953	1.44		0939	1.54
	1534	0.57		1524	0.45
	2201	1.77		2151	2.00
3 TH	0436	0.48	18 FR	0430	0.29
	1034	1.37		1034	1.48
	1608	0.63		1614	0.51
	2238	1.73		2242	1.98
4 FR	0519	0.52	19 SA	0528	0.31
	1116	1.32		1132	1.43
	1645	0.70		1708	0.58
	2315	1.68		2335	1.92
5 SA	0605	0.57	20 SU	0629	0.36
	1202	1.27		1234	1.39
	1726	0.75		1808	0.65
	2358	1.62			
6 SU	0654	0.61	21 MO	0034	1.83
	1253	1.24		0731	0.40
	1815	0.81		1341	1.38
				1915	0.70
7 MO	0046	1.56	22 TU ◑	0138	1.75
	0749	0.63		0834	0.43
	1352	1.23		1449	1.40
	1915	0.85		2028	0.72
8 TU ◐	0145	1.51	23 WE	0247	1.67
	0846	0.63		0932	0.45
	1458	1.26		1552	1.46
	2025	0.85		2141	0.70
9 WE	0250	1.49	24 TH	0353	1.62
	0942	0.61		1026	0.46
	1600	1.32		1648	1.54
	2136	0.82		2249	0.65
10 TH	0352	1.50	25 FR	0453	1.58
	1031	0.57		1114	0.46
	1650	1.40		1739	1.62
	2240	0.76		2351	0.59
11 FR	0446	1.52	26 SA	0546	1.54
	1115	0.52		1157	0.47
	1734	1.50		1824	1.70
	2333	0.67			
12 SA	0536	1.56	27 SU	0044	0.54
	1155	0.47		0636	1.51
	1815	1.61		1236	0.49
				1906	1.76
13 SU	0022	0.57	28 MO	0130	0.50
	0622	1.59		0722	1.47
	1233	0.42		1314	0.51
	1855	1.73		1945	1.80
14 MO	0109	0.47	29 TU	0214	0.47
	0708	1.61		0805	1.44
	1313	0.40		1348	0.54
	1936	1.83		2022	1.82
15 TU ●	0156	0.38	30 WE ○	0254	0.46
	0756	1.60		0847	1.40
	1354	0.39		1423	0.58
	2018	1.92		2058	1.82
			31 TH	0333	0.46
				0929	1.37
				1459	0.62
				2132	1.81

JUNE

	Time	m		Time	m
1 FR	0413	0.48	16 SA	0419	0.22
	1009	1.35		1023	1.48
	1535	0.66		1600	0.48
	2208	1.78		2229	2.05
2 SA	0453	0.51	17 SU	0515	0.24
	1050	1.32		1120	1.46
	1614	0.70		1657	0.54
	2245	1.74		2322	1.97
3 SU	0535	0.54	18 MO	0613	0.29
	1134	1.30		1220	1.44
	1656	0.74		1757	0.60
	2325	1.68			
4 MO	0619	0.57	19 TU	0018	1.86
	1221	1.29		0710	0.35
	1743	0.78		1321	1.44
				1900	0.65
5 TU	0009	1.62	20 WE ◑	0118	1.73
	0707	0.59		0806	0.41
	1313	1.29		1423	1.46
	1836	0.82		2010	0.69
6 WE	0100	1.56	21 TH	0221	1.61
	0758	0.59		0900	0.46
	1410	1.31		1523	1.50
	1939	0.84		2122	0.70
7 TH ◐	0157	1.51	22 FR	0325	1.50
	0848	0.58		0949	0.50
	1507	1.36		1619	1.56
	2047	0.82		2232	0.68
8 FR	0258	1.48	23 SA	0426	1.43
	0936	0.55		1036	0.53
	1600	1.45		1711	1.62
	2156	0.77		2337	0.63
9 SA	0358	1.48	24 SU	0523	1.38
	1023	0.52		1120	0.54
	1649	1.55		1758	1.68
	2258	0.68			
10 SU	0454	1.49	25 MO	0030	0.58
	1107	0.48		0614	1.36
	1736	1.68		1201	0.56
	2354	0.57		1841	1.73
11 MO	0547	1.51	26 TU	0116	0.53
	1151	0.44		0700	1.35
	1821	1.80		1240	0.57
				1920	1.77
12 TU	0047	0.45	27 WE	0158	0.49
	0641	1.52		0744	1.34
	1236	0.42		1317	0.58
	1908	1.92		1957	1.80
13 WE	0139	0.35	28 TH ○	0235	0.46
	0735	1.53		0825	1.34
	1324	0.41		1355	0.59
	1956	2.01		2032	1.81
14 TH ●	0231	0.27	29 FR	0312	0.45
	0830	1.52		0904	1.34
	1414	0.42		1432	0.60
	2045	2.07		2108	1.81
15 FR	0325	0.22	30 SA	0348	0.45
	0926	1.50		0944	1.34
	1505	0.44		1510	0.62
	2136	2.09		2144	1.79

JULY

	Time	m		Time	m
1 SU	0426	0.46	16 MO	0455	0.18
	1023	1.33		1100	1.50
	1549	0.64		1644	0.45
	2219	1.76		2305	1.95
2 MO	0503	0.48	17 TU	0547	0.25
	1103	1.33		1155	1.50
	1630	0.67		1742	0.51
	2257	1.70		2358	1.80
3 TU	0544	0.50	18 WE	0638	0.34
	1147	1.33		1251	1.49
	1715	0.71		1843	0.58
	2337	1.64			
4 WE	0625	0.52	19 TH	0052	1.64
	1233	1.33		0729	0.42
	1805	0.74		1347	1.49
				1947	0.65
5 TH	0021	1.57	20 FR ◑	0150	1.48
	0709	0.53		0818	0.50
	1324	1.36		1446	1.51
	1901	0.77		2059	0.68
6 FR ◐	0112	1.50	21 SA	0253	1.35
	0756	0.54		0907	0.55
	1417	1.40		1544	1.53
	2005	0.77		2212	0.68
7 SA	0210	1.44	22 SU	0359	1.28
	0844	0.53		0957	0.59
	1513	1.48		1639	1.57
	2116	0.73		2319	0.64
8 SU	0315	1.40	23 MO	0500	1.24
	0934	0.51		1045	0.60
	1607	1.58		1730	1.62
	2227	0.65			
9 MO	0419	1.40	24 TU	0015	0.58
	1026	0.49		0555	1.25
	1700	1.70		1131	0.60
	2331	0.53		1815	1.67
10 TU	0522	1.41	25 WE	0059	0.52
	1117	0.45		0643	1.27
	1753	1.82		1215	0.59
				1857	1.71
11 WE	0030	0.41	26 TH	0138	0.47
	0622	1.44		0725	1.29
	1210	0.42		1256	0.57
	1845	1.94		1934	1.74
12 TH	0126	0.29	27 FR	0214	0.43
	0720	1.46		0804	1.32
	1303	0.39		1335	0.56
	1938	2.04		2011	1.77
13 FR ●	0218	0.20	28 SA ○	0248	0.41
	0816	1.49		0841	1.34
	1357	0.38		1413	0.55
	2030	2.10		2045	1.78
14 SA	0311	0.15	29 SU	0322	0.40
	0912	1.50		0917	1.36
	1451	0.38		1450	0.54
	2122	2.11		2120	1.77
15 SU	0403	0.15	30 MO	0356	0.40
	1006	1.51		0954	1.37
	1547	0.40		1529	0.55
	2214	2.05		2155	1.74
			31 TU	0430	0.41
				1032	1.38
				1610	0.57
				2231	1.69

AUGUST

	Time	m		Time	m
1 WE	0506	0.43	16 TH	0559	0.35
	1113	1.39		1215	1.54
	1653	0.60		1820	0.52
	2309	1.62			
2 TH	0544	0.45	17 FR	0023	1.50
	1155	1.40		0644	0.46
	1740	0.64		1307	1.51
	2350	1.54		1923	0.60
3 FR	0623	0.48	18 SA ◑	0117	1.34
	1242	1.42		0730	0.55
	1833	0.67		1402	1.49
				2031	0.65
4 SA	0038	1.45	19 SU	0219	1.22
	0707	0.50		0820	0.61
	1333	1.45		1502	1.48
	1935	0.68		2145	0.66
5 SU ◐	0135	1.37	20 MO	0330	1.16
	0757	0.52		0915	0.65
	1430	1.50		1602	1.50
	2048	0.66		2254	0.63
6 MO	0244	1.31	21 TU	0438	1.16
	0854	0.53		1013	0.65
	1531	1.58		1659	1.54
	2205	0.59		2350	0.57
7 TU	0358	1.29	22 WE	0536	1.19
	0955	0.51		1107	0.63
	1633	1.68		1748	1.58
	2315	0.47			
8 WE	0509	1.32	23 TH	0034	0.50
	1056	0.47		0623	1.24
	1732	1.80		1156	0.59
				1831	1.63
9 TH	0016	0.34	24 FR	0112	0.44
	0612	1.37		0704	1.29
	1154	0.42		1239	0.55
	1829	1.92		1911	1.68
10 FR	0112	0.23	25 SA	0146	0.40
	0709	1.43		0741	1.34
	1250	0.36		1318	0.51
	1923	2.01		1946	1.71
11 SA ●	0203	0.14	26 SU ○	0219	0.36
	0802	1.49		0815	1.38
	1345	0.31		1356	0.48
	2015	2.06		2022	1.73
12 SU	0253	0.10	27 MO	0251	0.34
	0854	1.53		0850	1.41
	1440	0.29		1433	0.46
	2106	2.05		2056	1.72
13 MO	0341	0.11	28 TU	0323	0.34
	0945	1.56		0925	1.44
	1533	0.31		1512	0.45
	2156	1.97		2130	1.69
14 TU	0428	0.17	29 WE	0355	0.35
	1034	1.57		1001	1.47
	1628	0.36		1552	0.46
	2245	1.84		2207	1.64
15 WE	0514	0.25	30 TH	0429	0.37
	1125	1.56		1040	1.49
	1723	0.43		1635	0.49
	2333	1.68		2245	1.56
			31 FR	0504	0.40
				1120	1.50
				1722	0.52
				2328	1.47

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Datum of Predictions is Lowest Astronomical Tide Caution: Predictions are of secondary quality

Times are in local standard time (UTC +10:00) or daylight savings time (UTC +11:00) when in effect

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

BOTANY BAY – NEW SOUTH WALES

2018

LAT 33° 58' LONG 151° 13'

Times and Heights of High and Low Waters

Local Time

SEPTEMBER

	Time	m		Time	m
1 SA	0544	0.45	16 SU	0046	1.24
	1206	1.51		0640	0.60
	1815	0.56		1314	1.49
				1958	0.61
2 SU	0016	1.37	17 MO ◑	0146	1.15
	0628	0.50		0730	0.67
	1257	1.51		1412	1.45
	1918	0.58		2107	0.63
3 MO ◐	0115	1.28	18 TU	0259	1.11
	0721	0.55		0833	0.71
	1357	1.53		1516	1.44
	2033	0.57		2215	0.61
4 TU	0230	1.23	19 WE	0412	1.13
	0825	0.57		0940	0.71
	1504	1.58		1620	1.46
	2152	0.51		2313	0.56
5 WE	0350	1.23	20 TH	0511	1.19
	0935	0.55		1043	0.67
	1614	1.66		1715	1.51
	2302	0.41		2359	0.49
6 TH	0502	1.29	21 FR	0558	1.26
	1044	0.50		1135	0.61
	1717	1.76		1801	1.56
7 FR	0002	0.29	22 SA	0038	0.43
	0603	1.37		0637	1.32
	1145	0.41		1220	0.54
	1815	1.87		1842	1.61
8 SA	0055	0.19	23 SU	0112	0.38
	0657	1.46		0713	1.39
	1243	0.33		1300	0.48
	1908	1.93		1919	1.64
9 SU	0144	0.13	24 MO	0145	0.34
	0746	1.54		0746	1.45
	1336	0.27		1338	0.43
	1959	1.95		1955	1.66
10 MO ●	0229	0.11	25 TU ○	0215	0.32
	0834	1.60		0820	1.51
	1429	0.24		1416	0.39
	2047	1.91		2030	1.65
11 TU	0313	0.14	26 WE	0246	0.31
	0920	1.64		0855	1.56
	1519	0.25		1455	0.37
	2135	1.82		2107	1.63
12 WE	0355	0.21	27 TH	0318	0.32
	1006	1.65		0931	1.60
	1611	0.30		1537	0.37
	2222	1.68		2145	1.57
13 TH	0435	0.30	28 FR	0353	0.35
	1051	1.63		1010	1.63
	1703	0.38		1622	0.38
	2308	1.53		2228	1.50
14 FR	0515	0.41	29 SA	0430	0.40
	1136	1.59		1051	1.63
	1757	0.47		1711	0.41
	2355	1.37		2314	1.40
15 SA	0556	0.51	30 SU	0512	0.47
	1223	1.54		1138	1.62
	1854	0.55		1806	0.45

OCTOBER

	Time	m		Time	m
1 MO	0007	1.31	16 TU	0214	1.14
	0600	0.54		0743	0.72
	1230	1.60		1419	1.46
	1911	0.48		2121	0.59
2 TU ◐	0111	1.23	17 WE ◑	0321	1.12
	0659	0.60		0846	0.76
	1332	1.58		1522	1.42
	2025	0.48		2225	0.59
3 WE	0229	1.20	18 TH	0433	1.15
	0809	0.62		0959	0.76
	1445	1.59		1630	1.41
	2141	0.44		2323	0.55
4 TH	0348	1.24	19 FR	0533	1.21
	0926	0.60		1107	0.72
	1558	1.64		1731	1.44
	2246	0.36			
5 FR	0455	1.32	20 SA	0012	0.50
	1036	0.52		0622	1.29
	1702	1.71		1206	0.65
	2344	0.28		1822	1.49
6 SA	0551	1.43	21 SU	0053	0.45
	1139	0.42		0702	1.38
	1800	1.78		1255	0.57
				1906	1.53
7 SU	0032	0.21	22 MO	0130	0.40
	0741	1.53		0739	1.46
	1335	0.33		1337	0.49
	1952	1.80		1945	1.56
8 MO	0217	0.18	23 TU	0202	0.36
	0827	1.62		0814	1.55
	1428	0.27		1417	0.42
	2041	1.79		2024	1.58
9 TU ●	0300	0.19	24 WE	0234	0.33
	0911	1.69		0848	1.63
	1517	0.24		1458	0.36
	2128	1.73		2103	1.57
10 WE	0340	0.23	25 TH ○	0308	0.32
	0954	1.72		0925	1.70
	1606	0.25		1540	0.32
	2214	1.64		2144	1.55
11 TH	0418	0.30	26 FR	0344	0.34
	1036	1.73		1003	1.75
	1655	0.29		1624	0.29
	2259	1.52		2228	1.50
12 FR	0456	0.39	27 SA	0422	0.37
	1117	1.70		1045	1.78
	1743	0.36		1712	0.29
	2344	1.40		2315	1.44
13 SA	0532	0.48	28 SU	0503	0.43
	1159	1.65		1130	1.78
	1832	0.43		1804	0.32
14 SU	0030	1.29	29 MO	0007	1.36
	0610	0.57		0550	0.50
	1241	1.59		1218	1.75
	1924	0.51		1901	0.36
15 MO	0117	1.20	30 TU	0105	1.29
	0652	0.66		0644	0.57
	1326	1.52		1314	1.70
	2019	0.56		2006	0.39
			31 WE	0212	1.24
				0746	0.62
				1416	1.65
				2115	0.40

NOVEMBER

	Time	m		Time	m
1 TH ◐	0326	1.25	16 FR ◑	0343	1.19
	0900	0.64		0909	0.78
	1528	1.62		1530	1.41
	2223	0.39		2227	0.55
2 FR	0439	1.30	17 SA	0445	1.24
	1016	0.62		1020	0.76
	1640	1.62		1635	1.40
	2324	0.35		2317	0.51
3 SA	0540	1.39	18 SU	0536	1.32
	1128	0.55		1125	0.70
	1745	1.63		1733	1.42
4 SU	0017	0.31	19 MO	0001	0.47
	0632	1.50		0620	1.42
	1230	0.46		1221	0.62
	1842	1.64		1823	1.44
5 MO	0104	0.28	20 TU	0041	0.42
	0720	1.60		0700	1.52
	1328	0.38		1310	0.53
	1933	1.63		1908	1.47
6 TU	0147	0.28	21 WE	0117	0.39
	0805	1.69		0739	1.62
	1419	0.32		1355	0.43
	2022	1.60		1953	1.48
7 WE	0227	0.30	22 TH	0154	0.36
	0848	1.75		0817	1.73
	1508	0.29		1440	0.35
	2108	1.54		2037	1.49
8 TH ●	0305	0.34	23 FR ○	0232	0.35
	0929	1.78		0858	1.82
	1554	0.29		1526	0.28
	2153	1.47		2124	1.47
9 FR	0342	0.40	24 SA	0313	0.36
	1009	1.78		0941	1.88
	1639	0.31		1613	0.23
	2237	1.39		2214	1.45
10 SA	0417	0.47	25 SU	0357	0.39
	1047	1.76		1026	1.92
	1723	0.36		1703	0.22
	2320	1.32		2305	1.41
11 SU	0454	0.54	26 MO	0445	0.43
	1125	1.71		1115	1.91
	1806	0.41		1758	0.23
12 MO	0003	1.26	27 TU	0000	1.36
	0531	0.61		0537	0.49
	1204	1.65		1206	1.87
	1852	0.47		1855	0.26
13 TU	0049	1.21	28 WE	0100	1.32
	0613	0.67		0634	0.55
	1245	1.58		1300	1.80
	1940	0.52		1955	0.31
14 WE	0140	1.17	29 TH	0203	1.30
	0701	0.73		0738	0.60
	1331	1.50		1401	1.71
	2033	0.55		2058	0.34
15 TH	0238	1.16	30 FR ◐	0312	1.32
	0800	0.77		0848	0.63
	1427	1.44		1508	1.63
	2130	0.56		2159	0.36

DECEMBER

	Time	m		Time	m
1 SA	0417	1.37	16 SU	0347	1.27
	1002	0.62		0926	0.76
	1616	1.56		1535	1.38
	2255	0.37		2217	0.52
2 SU	0516	1.45	17 MO	0443	1.34
	1115	0.58		1036	0.73
	1721	1.51		1637	1.35
	2345	0.37		2305	0.49
3 MO	0610	1.54	18 TU	0533	1.44
	1221	0.52		1142	0.66
	1821	1.48		1736	1.35
				2350	0.46
4 TU	0032	0.38	19 WE	0619	1.55
	0659	1.63		1240	0.56
	1320	0.45		1831	1.37
	1915	1.44			
5 WE	0115	0.39	20 TH	0034	0.43
	0744	1.70		0704	1.66
	1412	0.39		1332	0.45
	2004	1.41		1925	1.39
6 TH	0155	0.41	21 FR	0117	0.40
	0827	1.76		0748	1.78
	1459	0.36		1423	0.34
	2050	1.38		2016	1.41
7 FR ●	0233	0.44	22 SA	0202	0.37
	0906	1.78		0835	1.89
	1542	0.34		1513	0.24
	2134	1.35		2108	1.42
8 SA	0310	0.48	23 SU ○	0250	0.36
	0945	1.79		0923	1.97
	1622	0.34		1602	0.17
	2216	1.32		2200	1.43
9 SU	0346	0.52	24 MO	0339	0.37
	1021	1.78		1012	2.01
	1701	0.36		1654	0.14
	2257	1.29		2254	1.42
10 MO	0423	0.56	25 TU	0431	0.39
	1058	1.74		1102	2.01
	1741	0.39		1745	0.15
	2337	1.26		2348	1.41
11 TU	0501	0.60	26 WE	0527	0.42
	1134	1.69		1154	1.95
	1821	0.43		1840	0.19
12 WE	0019	1.24	27 TH	0045	1.39
	0543	0.64		0624	0.47
	1213	1.63		1247	1.85
	1902	0.47		1934	0.25
13 TH	0104	1.22	28 FR	0144	1.39
	0628	0.69		0726	0.53
	1254	1.56		1344	1.73
	1947	0.51		2030	0.32
14 FR	0154	1.22	29 SA ◐	0245	1.40
	0719	0.73		0831	0.58
	1341	1.49		1444	1.59
	2036	0.53		2125	0.38
15 SA ◑	0249	1.23	30 SU	0347	1.43
	0818	0.76		0944	0.61
	1434	1.43		1549	1.46
	2128	0.53		2219	0.43
			31 MO	0447	1.48
				1058	0.61
				1656	1.37
				2311	0.46

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