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BALLINA – NEW SOUTH WALES

LAT 28° 52' LONG 153° 35'

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 0154 1.09		16 0158 1.29		1 0254 1.19		16 0346 1.42		1 0200 1.27		16 0321 1.47		1 0328 1.38		16 0411 1.46	
0728 0.59		0740 0.47		0857 0.67		1014 0.56		0817 0.63		1007 0.55		1014 0.62		1055 0.55	
FR 1346 1.30		SA 1403 1.43		MO 1440 1.11		TU 1559 1.09		TU 1400 1.08		WE 1555 1.05		FR 1602 1.06		SA 1705 1.20	
2026 0.43		2032 0.31		☾ 2100 0.48		2202 0.43		1957 0.51		☾ 2137 0.54		☾ 2132 0.62		2242 0.64	
2 0255 1.10		17 0302 1.32		2 0403 1.22		17 0501 1.45		2 0303 1.26		17 0437 1.46		2 0439 1.43		17 0509 1.46	
0832 0.65		0855 0.54		1015 0.68		1140 0.54		0933 0.66		1128 0.54		1121 0.56		1140 0.52	
SA 1434 1.21		SU 1502 1.30		TU 1547 1.04		WE 1722 1.06		WE 1508 1.02		TH 1720 1.06		SA 1717 1.13		SU 1754 1.30	
☾ 2115 0.45		☾ 2130 0.34		2200 0.49		2314 0.43		☾ 2059 0.54		2255 0.55		2252 0.59		2340 0.60	
3 0404 1.15		18 0413 1.38		3 0513 1.28		18 0611 1.51		3 0415 1.29		18 0547 1.48		3 0443 1.51		18 0557 1.47	
0946 0.69		1018 0.57		1136 0.64		1250 0.48		1053 0.64		1230 0.50		1117 0.47		1217 0.48	
SU 1533 1.14		MO 1612 1.20		WE 1701 1.02		TH 1836 1.08		TH 1628 1.01		FR 1827 1.12		SU 1719 1.25		MO 1835 1.39	
2207 0.45		2230 0.35		2302 0.47				2213 0.54				2300 0.51			
4 0509 1.23		19 0522 1.46		4 0611 1.37		19 0019 0.40		4 0525 1.37		19 0006 0.51		4 0539 1.60		19 0027 0.55	
1104 0.68		1143 0.54		1243 0.57		0708 1.57		1203 0.57		0645 1.51		1206 0.37		0636 1.47	
MO 1639 1.10		TU 1726 1.14		TH 1810 1.04		FR 1344 0.41		FR 1743 1.05		SA 1319 0.45		MO 1813 1.38		TU 1250 0.45	
2300 0.43		2332 0.34				1932 1.13		2324 0.50		1918 1.20		2359 0.42		1911 1.46	
5 0602 1.32		20 0626 1.55		5 0000 0.42		20 0114 0.36		5 0623 1.47		20 0101 0.47		5 0630 1.68		20 0108 0.51	
1216 0.62		1256 0.47		0701 1.47		0757 1.61		1259 0.47		0731 1.53		1249 0.28		0713 1.47	
TU 1744 1.09		WE 1838 1.13		FR 1333 0.47		SA 1426 0.36		SA 1845 1.14		SU 1357 0.41		TU 1901 1.52		WE 1321 0.42	
2350 0.40				1907 1.09		2018 1.19				2000 1.28				1945 1.53	
6 0649 1.42		21 0030 0.31		6 0050 0.36		21 0200 0.32		6 0025 0.42		21 0147 0.42		6 0052 0.33		21 0146 0.48	
1314 0.55		0723 1.63		0746 1.58		0838 1.63		0715 1.58		0812 1.55		0718 1.72		0746 1.46	
WE 1841 1.10		TH 1354 0.39		SA 1416 0.38		SU 1502 0.32		SU 1344 0.37		MO 1430 0.38		WE 1331 0.21		TH 1349 0.40	
		1939 1.14		1958 1.16		2058 1.24		1936 1.24		2037 1.35		1949 1.64		2016 1.58	
7 0036 0.36		22 0122 0.28		7 0137 0.28		22 0241 0.29		7 0118 0.33		22 0227 0.39		7 0144 0.26		22 0223 0.46	
0732 1.51		0812 1.70		0830 1.67		0915 1.63		0802 1.68		0846 1.55		0806 1.72		0820 1.43	
TH 1400 0.46		FR 1443 0.33		SU 1456 0.29		MO 1535 0.30		MO 1425 0.27		TU 1500 0.35		TH 1413 0.18		FR 1417 0.40	
1931 1.12		2030 1.16		2044 1.23		2134 1.28		2024 1.35		2111 1.41		☾ 2035 1.74		☾ 2048 1.61	
8 0118 0.31		23 0209 0.25		8 0223 0.22		23 0318 0.28		8 0208 0.25		23 0303 0.37		8 0236 0.23		23 0259 0.46	
0814 1.59		0857 1.73		0913 1.75		0948 1.61		0847 1.75		0919 1.53		0853 1.67		0854 1.39	
FR 1442 0.38		SA 1525 0.29		MO 1534 0.21		TU 1606 0.29		TU 1504 0.19		WE 1529 0.34		FR 1455 0.18		SA 1445 0.40	
2017 1.14		2114 1.19		2129 1.30		☾ 2208 1.31		2110 1.46		☾ 2143 1.45		2122 1.79		2121 1.63	
9 0158 0.27		24 0252 0.24		9 0308 0.17		24 0354 0.30		9 0256 0.19		24 0339 0.37		9 0329 0.24		24 0336 0.46	
0853 1.67		0937 1.72		0955 1.79		1020 1.57		0931 1.78		0950 1.50		0942 1.58		0929 1.34	
SA 1520 0.31		SU 1603 0.26		TU 1615 0.16		WE 1634 0.29		WE 1545 0.14		TH 1556 0.34		SA 1538 0.22		SU 1515 0.42	
2101 1.17		☾ 2154 1.20		☾ 2214 1.36		2241 1.33		☾ 2155 1.54		2214 1.48		2210 1.80		2155 1.63	
10 0238 0.23		25 0331 0.24		10 0355 0.16		25 0429 0.33		10 0345 0.17		25 0414 0.38		10 0424 0.29		25 0415 0.49	
0933 1.72		1014 1.69		1038 1.79		1051 1.51		1015 1.75		1022 1.45		1030 1.45		1005 1.29	
SU 1600 0.26		MO 1639 0.26		WE 1656 0.14		TH 1702 0.31		TH 1626 0.13		FR 1623 0.35		SU 1622 0.29		MO 1546 0.45	
☾ 2145 1.20		2232 1.21		2300 1.41		2314 1.34		2242 1.60		2246 1.49		2300 1.77		2231 1.61	
11 0320 0.20		26 0410 0.27		11 0444 0.18		26 0505 0.37		11 0436 0.19		26 0450 0.41		11 0522 0.36		26 0456 0.52	
1015 1.76		1048 1.64		1121 1.73		1123 1.44		1101 1.67		1055 1.39		1122 1.32		1045 1.23	
MO 1640 0.21		TU 1712 0.28		TH 1738 0.15		FR 1730 0.33		FR 1708 0.16		SA 1650 0.37		MO 1708 0.39		TU 1621 0.49	
2230 1.23		2308 1.21		2348 1.43		2348 1.34		2329 1.62		2320 1.49		2352 1.70		2312 1.58	
12 0404 0.20		27 0446 0.32		12 0535 0.25		27 0544 0.43		12 0529 0.25		27 0528 0.45		12 0627 0.45		27 0541 0.56	
1057 1.76		1121 1.57		1205 1.63		1156 1.36		1147 1.55		1129 1.31		1218 1.20		1129 1.18	
TU 1721 0.20		WE 1744 0.31		FR 1822 0.20		SA 1800 0.37		SA 1751 0.22		SU 1720 0.40		TU 1759 0.49		WE 1700 0.55	
2317 1.25		2345 1.21								2356 1.47				2357 1.54	
13 0452 0.24		28 0524 0.38		13 0038 1.43		28 0027 1.32		13 0018 1.61		28 0609 0.50		13 0048 1.62		28 0633 0.59	
1140 1.73		1154 1.49		0630 0.34		0627 0.50		0626 0.34		1205 1.23		0737 0.51		1220 1.14	
WE 1805 0.20		TH 1815 0.34		SA 1252 1.49		SU 1230 1.26		SU 1235 1.39		MO 1752 0.45		WE 1324 1.11		TH 1746 0.60	
				1907 0.26		1833 0.41		1836 0.31				1859 0.58			
14 0007 1.26		29 0022 1.20		14 0133 1.42		29 0110 1.30		14 0112 1.57		29 0036 1.44		14 0153 1.54		29 0049 1.50	
0542 0.30		0604 0.45		0733 0.44		0715 0.57		0730 0.43		0656 0.56		0848 0.55		0734 0.60	
TH 1224 1.65		FR 1228 1.39		SU 1343 1.33		MO 1311 1.17		MO 1329 1.24		TU 1246 1.16		TH 1444 1.09		FR 1326 1.13	
1851 0.23		1848 0.37		1958 0.33		1911 0.46		1926 0.40		1829 0.50		☾ 2011 0.64		1847 0.65	
15 0100 1.27		30 0104 1.19		15 0235 1.41				15 0212 1.51		30 0123 1.40		15 0303 1.48		30 0152 1.49	
0637 0.38		0651 0.53		0847 0.52				0845 0.51		0752 0.61		0958 0.56		0840 0.59	
FR 1311 1.55		SA 1304 1.30		MO 1444 1.19				TU 1433 1.12		WE 1336 1.09		FR 1602 1.13		SA 1440 1.16	
1940 0.27		1925 0.41		☾ 2055 0.40				2025 0.48		1914 0.56		2130 0.66		☾ 2003 0.68	
		31 0154 1.18								31 0219 1.37					
		0746 0.61								0900 0.63					
		SU 1346 1.20								TH 1443 1.05					
		2008 0.45								2014 0.61					

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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

BALLINA – NEW SOUTH WALES

LAT 28° 52' LONG 153° 35'

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 0259	1.51	16 0419	1.40	1 0430	1.55	16 0509	1.28	1 0508	1.36	16 0523	1.14	1 0114	0.34	16 0058	0.37
0942	0.54	1049	0.57	1052	0.39	1116	0.52	1114	0.35	1117	0.45	0702	1.19	0638	1.12
SU 1550	1.25	MO 1719	1.36	WE 1723	1.61	TH 1807	1.52	FR 1801	1.73	SA 1816	1.52	MO 1243	0.26	TU 1218	0.30
2125	0.65	2308	0.71	2326	0.56							1932	1.76	1911	1.60
2 0403	1.56	17 0510	1.39	2 0530	1.54	17 0021	0.64	2 0023	0.47	17 0044	0.54	2 0200	0.28	17 0136	0.29
1038	0.46	1129	0.54	1141	0.35	0557	1.28	0611	1.33	0614	1.16	0751	1.22	0723	1.18
MO 1653	1.38	TU 1802	1.45	TH 1817	1.74	FR 1157	0.48	SA 1205	0.32	SU 1201	0.41	TU 1330	0.24	WE 1302	0.23
2237	0.59			1846	1.60	1846	1.60	1855	1.81	1858	1.60	2015	1.76	1951	1.67
3 0503	1.61	18 0000	0.66	3 0028	0.48	18 0105	0.58	3 0119	0.40	18 0125	0.46	3 0241	0.25	18 0213	0.21
1128	0.38	0554	1.39	0626	1.51	0642	1.28	0709	1.31	0700	1.18	0835	1.23	0806	1.25
TU 1747	1.53	WE 1205	0.51	FR 1229	0.31	SA 1234	0.45	SU 1255	0.29	MO 1243	0.36	WE 1415	0.23	TH 1346	0.18
2341	0.50	1840	1.53	1909	1.85	1924	1.66	1945	1.87	1937	1.66	● 2056	1.74	○ 2031	1.71
4 0558	1.64	19 0045	0.61	4 0125	0.41	19 0146	0.52	4 0211	0.34	19 0203	0.40	4 0319	0.25	19 0250	0.16
1214	0.32	0635	1.39	0721	1.47	0724	1.27	0802	1.30	0744	1.20	0916	1.24	0850	1.31
WE 1839	1.67	TH 1239	0.47	SA 1315	0.29	SU 1310	0.42	MO 1343	0.28	TU 1322	0.32	TH 1456	0.26	FR 1431	0.15
		1915	1.60	2000	1.92	2000	1.70	● 2032	1.89	2016	1.71	2133	1.67	2112	1.72
5 0039	0.42	20 0127	0.56	5 0219	0.36	20 0225	0.48	5 0300	0.31	20 0240	0.34	5 0355	0.26	20 0330	0.13
0650	1.65	0714	1.38	0815	1.42	0804	1.27	0852	1.28	0826	1.23	0955	1.25	0935	1.36
TH 1259	0.27	FR 1310	0.45	SU 1400	0.30	MO 1345	0.40	TU 1429	0.29	WE 1402	0.29	FR 1535	0.30	SA 1518	0.16
1928	1.79	1950	1.66	● 2047	1.96	○ 2038	1.74	2117	1.87	○ 2055	1.75	2208	1.59	2154	1.68
6 0133	0.35	21 0205	0.52	6 0312	0.34	21 0302	0.45	6 0345	0.32	21 0318	0.30	6 0430	0.29	21 0410	0.12
0742	1.62	0751	1.36	0908	1.37	0845	1.26	0939	1.27	0909	1.26	1033	1.24	1022	1.39
FR 1342	0.24	SA 1342	0.44	MO 1447	0.32	TU 1422	0.39	WE 1514	0.33	TH 1445	0.27	SA 1615	0.36	SU 1608	0.21
2015	1.88	2024	1.69	2135	1.94	2115	1.75	2200	1.81	2135	1.75	2241	1.49	2237	1.59
7 0227	0.31	22 0243	0.50	7 0404	0.35	22 0341	0.43	7 0430	0.34	22 0358	0.27	7 0502	0.33	22 0453	0.15
0832	1.56	0828	1.34	0959	1.31	0928	1.26	1023	1.25	0954	1.28	1112	1.23	1111	1.40
SA 1426	0.25	SU 1413	0.43	TU 1533	0.38	WE 1500	0.39	TH 1558	0.38	FR 1530	0.28	SU 1656	0.44	MO 1701	0.28
● 2104	1.92	○ 2059	1.71	2222	1.88	2155	1.75	2239	1.72	2215	1.73	2315	1.39	2323	1.46
8 0321	0.31	23 0320	0.49	8 0457	0.39	23 0422	0.42	8 0511	0.38	23 0440	0.27	8 0535	0.36	23 0538	0.20
0923	1.47	0906	1.31	1048	1.26	1012	1.25	1106	1.23	1041	1.30	1153	1.22	1203	1.40
SU 1511	0.29	MO 1445	0.44	WE 1620	0.45	TH 1543	0.41	FR 1641	0.46	SA 1617	0.33	MO 1741	0.51	TU 1800	0.37
2152	1.92	2134	1.72	2307	1.79	2235	1.73	2317	1.61	2259	1.67	2351	1.28		
9 0416	0.34	24 0400	0.49	9 0547	0.44	24 0505	0.42	9 0550	0.43	24 0524	0.28	9 0612	0.40	24 0013	1.32
1015	1.37	0945	1.27	1138	1.22	1059	1.25	1150	1.21	1130	1.32	1240	1.20	0627	0.26
MO 1556	0.36	TU 1520	0.46	TH 1708	0.53	FR 1629	0.46	SA 1726	0.54	SU 1709	0.39	TU 1836	0.59	WE 1302	1.39
2241	1.87	2213	1.70	2352	1.68	2319	1.69	2355	1.50	2344	1.59			1912	0.45
10 0515	0.39	25 0441	0.50	10 0636	0.50	25 0551	0.43	10 0630	0.47	25 0610	0.31	10 0033	1.18	25 0112	1.18
1107	1.28	1028	1.24	1230	1.19	1150	1.26	1238	1.20	1225	1.33	0654	0.43	0723	0.32
TU 1644	0.45	WE 1559	0.49	FR 1800	0.61	SA 1719	0.51	SU 1816	0.62	MO 1807	0.47	WE 1336	1.20	TH 1409	1.40
2331	1.79	2253	1.68								1944	0.64	● 2035	0.49	
11 0614	0.46	26 0525	0.52	11 0038	1.56	26 0005	1.64	11 0035	1.39	26 0033	1.48	11 0126	1.08	26 0224	1.07
1203	1.20	1115	1.21	0724	0.54	0641	0.44	0711	0.50	0700	0.33	0745	0.46	0828	0.36
WE 1734	0.54	TH 1642	0.54	SA 1329	1.19	SU 1246	1.28	MO 1333	1.21	TU 1325	1.36	TH 1444	1.22	FR 1523	1.42
		2337	1.64	1858	0.69	1817	0.57	1917	0.69	1915	0.54	● 2101	0.65	2202	0.47
12 0023	1.68	27 0615	0.54	12 0126	1.46	27 0057	1.57	12 0121	1.29	27 0130	1.36	12 0233	1.02	27 0345	1.03
0714	0.52	1207	1.20	0812	0.57	0734	0.44	0757	0.52	0755	0.36	0843	0.47	0936	0.36
TH 1304	1.16	FR 1731	0.59	SU 1433	1.22	MO 1349	1.32	TU 1437	1.23	WE 1430	1.40	FR 1552	1.26	SA 1634	1.47
1831	0.63			● 2004	0.75	1927	0.62	● 2027	0.73	● 2036	0.57	2222	0.62	2316	0.41
13 0118	1.58	28 0027	1.61	13 0220	1.38	28 0155	1.51	13 0216	1.21	28 0235	1.26	13 0346	1.00	28 0501	1.04
0813	0.56	0709	0.54	0900	0.58	0830	0.43	0845	0.52	0853	0.37	0943	0.46	1044	0.34
FR 1415	1.15	SA 1308	1.21	MO 1539	1.27	TU 1455	1.40	WE 1544	1.29	TH 1541	1.47	SA 1652	1.34	SU 1737	1.54
1938	0.70	1830	0.65	2115	0.77	● 2045	0.64	2144	0.73	2200	0.56	2329	0.55		
14 0218	1.49	29 0123	1.58	14 0318	1.32	29 0259	1.44	14 0321	1.16	29 0347	1.19	14 0454	1.01	29 0014	0.34
0910	0.59	0807	0.53	0947	0.57	0925	0.41	0937	0.51	0955	0.36	1040	0.42	0603	1.09
SA 1527	1.19	SU 1415	1.26	TU 1636	1.35	WE 1600	1.50	TH 1642	1.36	FR 1648	1.55	SU 1744	1.43	MO 1144	0.29
● 2051	0.74	● 1943	0.68	2228	0.75	2204	0.61	2257	0.68	2317	0.49			1830	1.59
15 0321	1.43	30 0225	1.56	15 0416	1.29	30 0404	1.40	15 0425	1.14	30 0500	1.17	15 0017	0.46	30 0100	0.27
1003	0.59	0905	0.50	1033	0.55	1020	0.38	1029	0.49	1055	0.33	0549	1.06	0653	1.15
SU 1629	1.27	MO 1522	1.35	WE 1724	1.44	TH 1703	1.62	FR 1731	1.44	SA 1749	1.64	MO 1131	0.36	TU 1234	0.25
2204	0.74	2102	0.67	2330	0.70	2318	0.55	2356	0.61			1829	1.52	1915	1.61
		31 0329	1.55					31 0021	0.41					31 0138	0.23
		1000	0.45					0606	1.17					0736	1.20
		TU 1626	1.48					SU 1151	0.30					WE 1319	0.22
		2217	0.63					1844	1.71					1954	1.61

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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

