

### WET CALENDAR – July 2022

DATE	Dive/Event	Dive/Event Activity Leader	Dive Site/Depth	Notes/Result
Sat 2	Club Lunch	Wayne Pielak	Camden	Shellharbour rained out so we had a social lunch!
Sat 9/Sun 10	Club Boat Dive	Ken Jackson	Magic Point / 18m	
Sat 16/Sun 17	Club Boat Dive	Clinton Unger	Old Man's Hat / 21m	
Thu 21	Club General Meeting	Bruce Spry	West Ryde Hotel	
Sat 23/Sun 24	Sydney Shore Dive	Ross Di Bartolo	Gordon's Bay / 12m	
Tue 28 - Mon 1	Sydney Boat Show	Wayne Pielak	Darling Harbour	
Sat 30	10 Pin Bowling & Dinner	Wanda Whittaker	Top Ryde	
Sun 31	Sydney Shore Dive	Diego Molla	Camp Cove / 8m	

### WET CALENDAR – August 2022

DATE	Dive/Event	Dive/Event Activity Leader	Dive Site/Depth	Notes/Result
Sat 6/Sun 7	Sydney Shore Dive	Wayne Pielak	Watson's Bay / 10m	
Tues 9	Executive Meeting	Bruce Spry	Via Zoom	
Sat 13/Sun 14	Club Boat Dive	Ken Jackson	The Apartments / 28m	
Thu 18	Club General Meeting	Bruce Spry	West Ryde Hotel	
Sat 20/Sun 21	Sydney Shore Dive	Diego Molla	Camp Cove / 10m	
Sat 27	Club Boat Dive	Bruce Spry	Dee Why Wide / 30m	
Sun 28	Maritime Museum & Lunch in Darling Harbour	Wanda Whittaker	Darling Harbour	

### WET CALENDAR – September 2022

DATE	Dive/Event	Dive/Event Activity Leader	Dive Site/Depth	Notes/Result
Sat 3/Sun 4	Sydney Shore Dive	Wayne Pielak	Balmoral Baths	
Sat 10/Sun 11	Club Boat Dive	Ken Jackson	The Colours / 24m	
Mon12/ Tue 20	Dive Trip	Wanda Whittaker	Lady Elliot Island	
Thu 15	Club General Meeting	Ken/Peter	West Ryde Hotel	
Sat 17/Sun 18	Club Boat Dive	Clinton Unger	The Apartments / 28m	
Sat 24/Sun 25	Sydney Shore Dive	Diego Molla	Shelly Beach	

### WET CALENDAR – October 2022

DATE	Dive/Event	Dive/Event Activity Leader	Dive Site/Depth	Notes/Result
Sat 1/Mon 3	Club Boat Dives Sydney & Picnic	Peter / Wanda	Sydney	
Sat 8–Sun 9	Sydney Shore Dive	Ross Di Bartolo	Shiprock / 15m	
Tue 11	Executive Meeting	Bruce Spry	Via Zoom	
Sat 15–Sun 16	Club Boat Dive	Clinton Unger	North Head /20m	
Thu 20	Club General Meeting	Bruce Spry	West Ryde Hotel	
Sat 22/Sun 23	Sydney Shore Dive	Wayne Pielak	<a href="#">Clifton Gardens</a>	
Sat 29/Sun 30	Club Boat Dive	Ken Jackson	Long Reef / 24m	

# JULY / AUGUST 2022

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

July 2022						August 2022											
	Time	m	Time	m	Time	Time	m	Time	m	Time	m						
<b>1</b>	0352	0.48	<b>12</b>	0052	0.36	<b>23</b>	0406	1.19	<b>1</b>	0434	0.40	<b>12</b>	0227	0.14	<b>23</b>	0550	1.15
FR	0947	1.30	TU	0643	1.44	SA	0954	0.65	MO	1037	1.36	FR	0823	1.45	TU	1111	0.67
	1511	0.65		1220	0.47		1640	1.57		1615	0.56		1401	0.35		1749	1.58
	2145	1.80		1900	2.00		2332	0.66		2235	1.70		2033	2.05			
<b>2</b>	0430	0.49	<b>13</b>	0148	0.26	<b>24</b>	0510	1.18	<b>2</b>	0509	0.41	<b>13</b>	0313	0.13	<b>24</b>	0042	0.50
SA	1027	1.29	WE	0742	1.42	SU	1044	0.66	TU	1117	1.39	SA	0912	1.49	WE	0634	1.21
	1551	0.66		1315	0.45		1730	1.61		1700	0.59		1455	0.33		1200	0.61
	2222	1.76		1954	2.08					2315	1.62		2122	2.00		1833	1.64
<b>3</b>	0508	0.50	<b>14</b>	0242	0.19	<b>25</b>	0024	0.60	<b>3</b>	0545	0.43	<b>14</b>	0358	0.16	<b>25</b>	0118	0.44
SU	1108	1.29	TH	0838	1.44	MO	0605	1.19	WE	1201	1.42	SU	1000	1.52	TH	0713	1.26
	1633	0.69		1411	0.43		1131	0.65		1750	0.63		1546	0.36		1243	0.56
	2301	1.72		2047	2.11		1815	1.66		2358	1.53		2209	1.89		1912	1.70
<b>4</b>	0548	0.52	<b>15</b>	0334	0.17	<b>26</b>	0106	0.54	<b>4</b>	0625	0.47	<b>15</b>	0440	0.23	<b>26</b>	0151	0.39
MO	1152	1.30	FR	0932	1.45	TU	0652	1.23	TH	1249	1.45	MO	1046	1.53	FR	0746	1.31
	1720	0.72		1506	0.43		1216	0.63		1847	0.66		1638	0.41		1321	0.50
	2343	1.66		2140	2.09		1856	1.71					2255	1.73		1948	1.74
<b>5</b>	0630	0.52	<b>16</b>	0426	0.19	<b>27</b>	0144	0.48	<b>5</b>	0047	1.42	<b>16</b>	0521	0.33	<b>27</b>	0223	0.35
TU	1240	1.32	SA	1026	1.45	WE	0732	1.26	FR	0708	0.51	TU	1132	1.52	SA	0820	1.36
	1812	0.74		1601	0.45		1259	0.60		1342	1.49		1730	0.50		1359	0.46
				2230	2.01		1934	1.75		1956	0.66		2340	1.55		2023	1.76
<b>6</b>	0028	1.59	<b>17</b>	0515	0.24	<b>28</b>	0218	0.44	<b>6</b>	0149	1.32	<b>17</b>	0600	0.43	<b>28</b>	0254	0.32
WE	0713	0.53	SU	1118	1.45	TH	0811	1.29	SA	0800	0.54	WE	1219	1.51	SU	0854	1.40
	1331	1.37		1657	0.50		1338	0.57		1442	1.55		1827	0.58		1437	0.44
	1911	0.76		2321	1.87		2012	1.78		2115	0.63					2058	1.75
<b>7</b>	0119	1.51	<b>18</b>	0603	0.32	<b>29</b>	0253	0.41	<b>7</b>	0304	1.26	<b>18</b>	0026	1.38	<b>29</b>	0325	0.31
TH	0758	0.53	MO	1211	1.46	FR	0846	1.31	SU	0900	0.56	TH	0638	0.53	MO	0929	1.45
	1425	1.44		1754	0.57		1415	0.55		1545	1.63		1308	1.49		1516	0.43
	2018	0.75					2047	1.79		2235	0.54		1929	0.66		2133	1.71
<b>8</b>	0219	1.45	<b>19</b>	0012	1.71	<b>30</b>	0327	0.40	<b>8</b>	0424	1.24	<b>19</b>	0117	1.23	<b>30</b>	0357	0.32
FR	0845	0.53	TU	0650	0.41	SA	0922	1.32	MO	1005	0.56	FR	0719	0.61	TU	1005	1.49
	1520	1.53		1303	1.46		1454	0.54		1650	1.74		1400	1.47		1559	0.44
	2132	0.70		1854	0.64		2123	1.79		2345	0.42		2040	0.70		2211	1.64
<b>9</b>	0327	1.40	<b>20</b>	0103	1.53	<b>31</b>	0400	0.39	<b>9</b>	0536	1.28	<b>20</b>	0219	1.12	<b>31</b>	0430	0.35
SA	0937	0.53	WE	0735	0.49	SU	0959	1.34	TU	1111	0.52	SA	0810	0.67	WE	1045	1.52
	1615	1.64		1357	1.47		1533	0.55		1752	1.85		1458	1.47		1645	0.47
	2245	0.61		2000	0.70		2159	1.75					2157	0.69		2252	1.54
<b>10</b>	0434	1.38	<b>21</b>	0159	1.38				<b>10</b>	0045	0.30	<b>21</b>	0337	1.08			
SU	1030	0.51	TH	0819	0.56				WE	0638	1.34	SU	0910	0.70			
	1711	1.77		1452	1.49					1211	0.46		1600	1.48			
	2352	0.49		2114	0.73					1849	1.96		2305	0.64			
<b>11</b>	0541	1.38	<b>22</b>	0300	1.26				<b>11</b>	0137	0.20	<b>22</b>	0452	1.10			
MO	1125	0.49	FR	0905	0.62				TH	0732	1.40	MO	1014	0.70			
	1805	1.89		1546	1.53					1308	0.39		1659	1.52			
				2227	0.72					1943	2.03		2359	0.57			

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Indicates high tide of 1.7m or more

Indicates low tide of 0.3m or less

New Moon ●

First Quarter ◐

Full Moon ○

Last Quarter ◑

# SEPTEMBER / OCTOBER 2022

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

### September 2022

### October 2022

	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> TH	0505	0.40	<b>12</b> MO	0323 0.20 0930 1.61 1530 0.31 2144 1.71	<b>23</b> FR	0042 0.42 0643 1.31 1222 0.54 1842 1.64	<b>1</b> SA	0515 0.51 1148 1.67 1831 0.46	<b>12</b> WE	0415 0.38 <b>1037 1.72</b> 1700 0.36 2300 1.40	<b>23</b> SU	0127 0.38 0739 1.49 1338 0.48 1944 1.60
<b>2</b> FR	0544 0.46 1214 1.55 1835 0.55	<b>13</b> TU	0400 0.28 1012 1.62 1618 0.37 2227 1.56	<b>24</b> SA	0114 0.37 0716 1.39 1301 0.47 1918 1.68	<b>2</b> SU	0029 1.23 0706 0.60 1346 1.63 2046 0.49	<b>13</b> TH	0447 0.47 1114 1.69 1744 0.42 2342 1.30	<b>24</b> MO	0159 0.34 0814 1.59 1420 0.40 2023 1.60	
<b>3</b> SA	0031 1.31 0630 0.53 1308 1.56 1946 0.57	<b>14</b> WE	0434 0.38 1052 1.61 1707 0.45 2309 1.40	<b>25</b> SU	0145 0.32 0748 1.46 1340 0.41 1954 1.69	<b>3</b> MO	0243 1.16 0813 0.66 1457 1.60 2208 0.47	<b>14</b> FR	0519 0.55 1151 1.65 1830 0.49	<b>25</b> TU	0231 0.32 0849 1.69 1503 0.33 2105 1.58	
<b>4</b> SU	0138 1.21 0727 0.60 1414 1.57 2111 0.55	<b>15</b> TH	0507 0.48 1133 1.57 1759 0.53 2353 1.26	<b>26</b> MO	0215 0.29 0822 1.54 1420 0.37 2030 1.68	<b>4</b> TU	0410 1.16 0934 0.60 1616 1.62 2320 0.41	<b>15</b> SA	0026 1.20 0554 0.64 1231 1.58 1920 0.56	<b>26</b> WE	0305 0.32 <b>0927 1.78</b> 1548 0.28 2149 1.54	
<b>5</b> MO	0302 1.16 0840 0.63 1528 1.61 2231 0.47	<b>16</b> FR	0542 0.58 1216 1.52 1855 0.60	<b>27</b> TU	0245 0.29 0857 1.61 1501 0.34 2110 1.63	<b>5</b> WE	0526 1.23 1054 0.62 1730 1.67	<b>16</b> SU	0115 1.13 0636 0.71 1316 1.51 2019 0.61	<b>27</b> TH	0342 0.35 <b>1008 1.84</b> 1637 0.27 2238 1.46	
<b>6</b> TU	0427 1.18 0957 0.60 1640 1.70 2337 0.36	<b>17</b> SA	0043 1.15 0621 0.66 1305 1.47 2000 0.65	<b>28</b> WE	0318 0.31 0934 1.66 1546 0.34 2151 1.55	<b>6</b> TH	0019 0.34 0625 1.33 1202 0.53 1830 1.73	<b>17</b> MO	0214 1.09 0731 0.77 1412 1.45 2127 0.63	<b>28</b> FR	0422 0.41 <b>1052 1.85</b> 1730 0.28 2330 1.38	
<b>7</b> WE	0535 1.26 1106 0.52 1743 1.80	<b>18</b> SU	0145 1.07 0715 0.73 1403 1.43 2115 0.66	<b>29</b> TH	0353 0.36 1015 1.69 1635 0.37 2237 1.45	<b>7</b> FR	0109 0.27 0714 1.44 1300 0.43 1922 1.77	<b>18</b> TU	0329 1.08 0844 0.80 1520 1.41 2233 0.61	<b>29</b> SA	0507 0.49 <b>1140 1.83</b> 1827 0.32	
<b>8</b> TH	0031 0.26 0630 1.36 1207 0.43 1838 1.89	<b>19</b> MO	0307 1.05 0828 0.76 1514 1.42 2225 0.62	<b>30</b> FR	0430 0.43 1059 1.69 1730 0.41 2329 1.34	<b>8</b> SA	0152 0.23 0758 1.54 1354 0.35 2009 1.77	<b>19</b> WE	0445 1.12 1003 0.79 1632 1.42 2330 0.56	<b>30</b> SU	0027 1.30 0558 0.57 1233 1.78 1930 0.37	
<b>9</b> FR	0119 0.18 0718 1.45 1301 0.35 1928 1.93	<b>20</b> TU	0428 1.09 0944 0.75 1621 1.45 2321 0.56			<b>9</b> SU	0231 0.22 0840 1.62 1443 0.31 2054 1.72	<b>20</b> TH	0544 1.20 1112 0.73 1733 1.47	<b>31</b> MO	0132 1.23 0658 0.64 <b>1334 1.71</b> 2043 0.41	
<b>10</b> SA	0203 0.15 0803 1.53 1352 0.29 2015 1.91	<b>21</b> WE	0524 1.16 1047 0.69 1717 1.51			<b>10</b> MO	0308 0.25 0920 1.68 1530 0.30 2137 1.63	<b>21</b> FR	0015 0.50 0628 1.29 1208 0.65 1822 1.52			
<b>11</b> SU	0244 0.15 0847 1.58 1442 0.28 2100 1.83	<b>22</b> TH	0005 0.49 0607 1.23 1139 0.62 1802 1.58			<b>11</b> TU	0343 0.31 0959 1.71 1615 0.32 2218 1.52	<b>22</b> SA	0053 0.44 0704 1.38 1255 0.56 1903 1.57			

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Indicates high tide of 1.7m or more

Indicates low tide of 0.3m or less

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

# NOVEMBER / DECEMBER 2022

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

### November 2022

	Time	m	Time	m	Time	m
<b>1</b>	0246	1.20	<b>12</b>	0442 0.61	<b>23</b>	0150 0.38
TU	0810 0.68		SA	1117 1.71	WE	0818 1.82
☉	1445 1.65			1804 0.47		1448 0.31
☾	2154 0.41					2044 1.48
<b>2</b>	0403 1.24		<b>13</b>	0001 1.20	<b>24</b>	0230 0.38
WE	0929 0.68		SU	0520 0.67	TH	0901 1.91
	1600 1.62			1157 1.65	●	1538 0.25
	2257 0.39			1849 0.52		2135 1.45
<b>3</b>	0509 1.32		<b>14</b>	0048 1.16	<b>25</b>	0315 0.41
TH	1045 0.63		MO	0604 0.72	FR	0947 1.97
	1710 1.62			1240 1.58		1630 0.21
	2350 0.36			1940 0.56		2229 1.41
<b>4</b>	0602 1.42		<b>15</b>	0141 1.14	<b>26</b>	0401 0.45
FR	1153 0.56		TU	0657 0.77	SA	1037 1.98
	1809 1.62			1330 1.51		1724 0.21
				2036 0.59		2324 1.36
<b>5</b>	0036 0.34		<b>16</b>	0244 1.14	<b>27</b>	0454 0.50
SA	0650 1.53		WE	0800 0.80	SU	1129 1.95
	1252 0.48			1428 1.46		1821 0.25
	1900 1.60			2135 0.59		
<b>6</b>	0117 0.33		<b>17</b>	0350 1.17	<b>28</b>	0023 1.32
SU	0733 1.63		TH	0912 0.80	MO	0550 0.56
	1345 0.41		☉	1532 1.43		1224 1.89
	1947 1.57		☾	2230 0.56		1922 0.30
<b>7</b>	0155 0.35		<b>18</b>	0449 1.24	<b>29</b>	0126 1.29
MO	0814 1.70		FR	1023 0.77	TU	0653 0.61
	1433 0.37			1635 1.43		1323 1.79
	2032 1.51			2316 0.51		2025 0.34
<b>8</b>	0230 0.38		<b>19</b>	0538 1.34	<b>30</b>	0232 1.29
TU	0852 1.76		SA	1127 0.70	WE	0800 0.65
☉	1518 0.35			1731 1.45		1428 1.69
☾	2115 1.44			2357 0.47		2126 0.38
<b>9</b>	0302 0.43		<b>20</b>	0619 1.46		
WE	0930 1.78		SU	1222 0.61		
	1600 0.36			1821 1.47		
	2156 1.37					
<b>10</b>	0335 0.49		<b>21</b>	0035 0.42		
TH	1005 1.78		MO	0659 1.58		
	1641 0.38			1312 0.51		
	2237 1.31			1908 1.49		
<b>11</b>	0408 0.55		<b>22</b>	0112 0.39		
FR	1041 1.75		TU	0737 1.71		
	1722 0.42			1400 0.41		
	2318 1.25			1955 1.49		

### December 2022

	Time	m	Time	m	Time	m
<b>1</b>	0338 1.33		<b>12</b>	0458 0.65	<b>23</b>	0206 0.43
TH	0914 0.66		MO	1131 1.70	FR	0843 1.98
☉	1535 1.60			1820 0.48	●	1530 0.21
☾	2222 0.41					2125 1.40
<b>2</b>	0439 1.41		<b>13</b>	0019 1.21	<b>24</b>	0257 0.43
FR	1028 0.65		TU	0541 0.68	SA	0934 2.05
	1642 1.52			1212 1.65		1622 0.16
	2312 0.42			1903 0.51		2219 1.40
<b>3</b>	0533 1.49		<b>14</b>	0106 1.20	<b>25</b>	0350 0.43
SA	1139 0.61		WE	0721 0.68	SU	1027 2.07
	1742 1.46			1254 1.58		1715 0.15
	2358 0.44			1948 0.54		2314 1.40
<b>4</b>	0622 1.59		<b>15</b>	0157 1.21	<b>26</b>	0445 0.45
SU	1243 0.55		TH	0721 0.75	MO	1119 2.03
	1837 1.41			1342 1.51		1808 0.18
				2036 0.55		
<b>5</b>	0039 0.45		<b>16</b>	0253 1.24	<b>27</b>	0010 1.39
MO	0707 1.67		FR	0828 0.78	TU	0543 0.48
	1337 0.49			1434 1.45		1213 1.95
	1927 1.37		☉	2125 0.54		1902 0.24
<b>6</b>	0117 0.48		<b>17</b>	0349 1.30	<b>28</b>	0106 1.38
TU	0748 1.73		SA	0930 0.77	WE	0642 0.53
	1425 0.45			1534 1.40		1307 1.82
	2014 1.33			2213 0.53		1955 0.31
<b>7</b>	0153 0.50		<b>18</b>	0443 1.39	<b>29</b>	0204 1.39
WE	0827 1.77		SU	1041 0.73	TH	0745 0.59
	1507 0.41			1637 1.37		1403 1.67
	2057 1.31			2259 0.50		2046 0.39
<b>8</b>	0229 0.53		<b>19</b>	0531 1.50	<b>30</b>	0303 1.42
TH	0904 1.79		MO	1147 0.65	FR	0852 0.64
☉	1546 0.40			1738 1.36	☉	1502 1.51
☾	2138 1.29			2344 0.48		2137 0.46
<b>9</b>	0304 0.56		<b>20</b>	0618 1.63	<b>31</b>	0401 1.47
FR	0941 1.79		TU	1248 0.53	SA	1005 0.67
	1624 0.40			1837 1.37		1606 1.38
	2218 1.27					2226 0.51
<b>10</b>	0341 0.59		<b>21</b>	0030 0.46		
SA	1016 1.78		WE	0705 1.76		
	1701 0.41			1344 0.41		
	2258 1.25			1933 1.38		
<b>11</b>	0418 0.62		<b>22</b>	0116 0.44		
SU	1054 1.75		TH	0753 1.88		
	1740 0.44			1437 0.30		
	2337 1.23			2030 1.39		

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New Moon ●

First Quarter ☾

Full Moon ☽

Last Quarter ☾

# JANUARY / FEBRUARY 2023

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

January 2023						February 2023					
Time	m	Time	m	Time	m	Time	m	Time	m	Time	m
<b>1</b> SU	0458 1.52 1121 0.66 1712 1.29 2315 0.55	<b>12</b> TH	0030 1.29 0602 0.64 1224 1.62 1902 0.48	<b>23</b> MO	0342 0.36 1015 2.09 1658 0.12 2257 1.48	<b>1</b> WE	0614 1.57 1315 0.60 1902 1.16	<b>12</b> SU	0115 1.46 0718 0.64 1317 1.41 1930 0.54	<b>23</b> TH	0516 0.33 1134 1.81 1754 0.29
<b>2</b> MO	0551 1.58 1231 0.62 1815 1.23	<b>13</b> FR ☉	0113 1.31 0650 0.68 1303 1.54 1941 0.50	<b>24</b> TU	0436 0.36 1106 2.04 1745 0.16 2346 1.50	<b>2</b> TH	0023 0.68 0704 1.62 1400 0.54 1950 1.20	<b>13</b> MO	0202 1.48 0818 0.62 1411 1.30 2015 0.60	<b>24</b> FR	0005 1.64 0610 0.41 1220 1.64 1833 0.40
<b>3</b> TU	0000 0.58 0640 1.64 1329 0.56 1912 1.22	<b>14</b> SA	0200 1.34 0744 0.71 1349 1.45 2023 0.53	<b>25</b> WE	0530 0.39 1156 1.93 1831 0.23	<b>3</b> FR	0112 0.65 0748 1.66 1438 0.48 2030 1.25	<b>14</b> TU ☾	0259 1.51 0933 0.67 1521 1.22 2115 0.64	<b>25</b> SA	0051 1.62 0705 0.50 1307 1.45 1911 0.52
<b>4</b> WE	0045 0.59 0725 1.69 1415 0.50 2001 1.23	<b>15</b> SU	0252 1.38 0846 0.73 1444 1.36 2109 0.55	<b>26</b> TH	0037 1.50 0627 0.45 1245 1.77 1916 0.33	<b>4</b> SA	0155 0.60 0829 1.71 1513 0.44 2105 1.29	<b>15</b> WE	0405 1.56 1058 0.62 1647 1.19 2228 0.65	<b>26</b> SU	0138 1.59 0805 0.60 1358 1.28 1951 0.63
<b>5</b> TH	0128 0.59 0806 1.73 1456 0.46 2044 1.25	<b>16</b> MO	0346 1.45 0959 0.71 1549 1.29 2201 0.56	<b>27</b> FR	0129 1.50 0725 0.53 1335 1.58 2000 0.44	<b>5</b> SU	0234 0.56 0905 1.74 1545 0.41 2139 1.33	<b>16</b> TH	0516 1.64 1215 0.51 1809 1.22 2342 0.61	<b>27</b> MO ☾	0230 1.54 0914 0.67 1459 1.15 2040 0.72
<b>6</b> FR	0208 0.59 0845 1.75 1532 0.43 2123 1.27	<b>17</b> TU	0445 1.53 1117 0.65 1704 1.26 2259 0.56	<b>28</b> SA	0222 1.50 0829 0.61 1429 1.39 2045 0.54	<b>6</b> MO ☉	0311 0.53 0940 1.76 1615 0.39 2212 1.35	<b>17</b> FR	0623 1.76 1319 0.38 1915 1.30	<b>28</b> TU	0329 1.50 1031 0.70 1617 1.09 2144 0.78
<b>7</b> SA ☉	0246 0.58 0922 1.77 1607 0.41 2200 1.28	<b>18</b> WE	0543 1.64 1229 0.54 1816 1.27 2359 0.54	<b>29</b> SU ☾	0317 1.50 0941 0.67 1530 1.24 2134 0.62	<b>7</b> TU	0346 0.51 1015 1.76 1646 0.39 2245 1.38	<b>18</b> SA	0047 0.53 0723 1.89 1414 0.26 2011 1.40		
<b>8</b> SU	0324 0.57 0959 1.78 1641 0.41 2236 1.29	<b>19</b> TH	0640 1.77 1331 0.40 1922 1.31	<b>30</b> MO	0416 1.51 1100 0.69 1644 1.15 2230 0.67	<b>8</b> WE	0424 0.51 1047 1.74 1716 0.40 2318 1.40	<b>19</b> SU	0145 0.43 0818 1.99 1502 0.17 2100 1.48		
<b>9</b> MO	0401 0.57 1035 1.77 1715 0.42 2312 1.29	<b>20</b> FR	0057 0.50 0736 1.90 1427 0.28 2020 1.36	<b>31</b> TU	0516 1.54 1215 0.65 1800 1.13 2328 0.69	<b>9</b> TH	0502 0.53 1121 1.68 1747 0.41 2354 1.42	<b>20</b> MO ☀	0240 0.35 0910 2.04 1548 0.13 2147 1.56		
<b>10</b> TU	0440 0.58 1111 1.74 1750 0.43 2349 1.29	<b>21</b> SA	0153 0.45 0830 2.00 1519 0.18 2115 1.41			<b>10</b> FR	0543 0.56 1157 1.61 1818 0.45	<b>21</b> TU	0332 0.30 1000 2.03 1632 0.14 2233 1.61		
<b>11</b> WE	0520 0.61 1146 1.69 1826 0.45	<b>22</b> SU ☀	0247 0.40 0924 2.07 1609 0.13 2206 1.45			<b>11</b> SA	0032 1.44 0628 0.60 1234 1.51 1852 0.49	<b>22</b> WE	0425 0.30 1047 1.95 1715 0.20 2319 1.64		

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Indicates high tide of 1.7m or more

Indicates low tide of 0.3m or less

New Moon ●      First Quarter ☾      Full Moon ☉      Last Quarter ☾

# MARCH / APRIL 2023

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

### March 2023

	Time	m	Time	m	Time	m		
<b>1</b> WE	0435	1.49	<b>12</b> SU	0614	0.53	<b>23</b> TH	0412	0.31
	1147	0.68		1215	1.45		1026	1.78
	1745	1.10		1811	0.53		1637	0.31
	2258	0.79					2249	1.77
<b>2</b> TH	0542	1.51	<b>13</b> MO	0039	1.61	<b>24</b> FR	0502	0.35
	1247	0.63		0705	0.57		1111	1.64
	1847	1.16		1301	1.35		1714	0.41
			1850	0.60	2331	1.77		
<b>3</b> FR	0004	0.75	<b>14</b> TU	0128	1.60	<b>25</b> SA	0553	0.42
	0638	1.55		0807	0.61		1157	1.49
	1333	0.56		1400	1.25		1748	0.52
	1931	1.23	1941	0.68				
<b>4</b> SA	0057	0.69	<b>15</b> WE	0227	1.59	<b>26</b> SU	0013	1.73
	0725	1.61		0924	0.62		0645	0.50
	1410	0.51		1516	1.18		1243	1.34
	2008	1.30	2049	0.73	1823	0.63		
<b>5</b> SU	0140	0.62	<b>16</b> TH	0341	1.60	<b>27</b> MO	0056	1.66
	0804	1.67		1049	0.57		0741	0.59
	1443	0.46		1647	1.19		1331	1.22
	2041	1.36	2215	0.73	1900	0.73		
<b>6</b> MO	0218	0.56	<b>17</b> FR	0500	1.66	<b>28</b> TU	0142	1.59
	0841	1.71		1202	0.48		0843	0.66
	1513	0.42		1805	1.26		1430	1.14
	2113	1.42	2334	0.66	1949	0.81		
<b>7</b> TU	0254	0.51	<b>18</b> SA	0610	1.76	<b>29</b> WE	0238	1.52
	0915	1.73		1301	0.37		0953	0.70
	1542	0.39		1904	1.37		1548	1.11
	2143	1.47			2100	0.86		
<b>8</b> WE	0330	0.48	<b>19</b> SU	0040	0.55	<b>30</b> TH	0346	1.47
	0948	1.72		0709	1.86		1103	0.69
	1610	0.39		1352	0.28		1713	1.14
	2214	1.52	1954	1.49	2222	0.86		
<b>9</b> TH	0407	0.47	<b>20</b> MO	0137	0.44	<b>31</b> FR	0500	1.48
	1022	1.69		0801	1.93		1202	0.65
	1638	0.40		1437	0.22		1815	1.21
	2246	1.56	2040	1.60	2334	0.81		
<b>10</b> FR	0446	0.47	<b>21</b> TU	0230	0.35			
	1057	1.63		0851	1.94			
	1707	0.42		1519	0.21			
	2321	1.60	2124	1.69				
<b>11</b> SA	0528	0.49	<b>22</b> WE	0322	0.31			
	1134	1.55		0939	1.89			
	1738	0.47		1600	0.24			
	2358	1.61	2207	1.75				

### April 2023

	Time	m	Time	m	Time	m		
<b>1</b> SA	0600	1.52	<b>12</b> WE	0009	1.72	<b>23</b> SU	0435	0.45
	1249	0.60		0708	0.55		1034	1.37
	1859	1.29		1303	1.24		1606	0.63
				1828	0.75		2238	1.80
<b>2</b> SU	0030	0.74	<b>13</b> TH	0112	1.68	<b>24</b> MO	0524	0.52
	0548	1.57		0823	0.56		1120	1.29
	1228	0.54		1423	1.22		1642	0.72
	1835	1.37	1944	0.78	2317	1.73		
<b>3</b> MO	0015	0.66	<b>14</b> FR	0229	1.67	<b>25</b> TU	0614	0.59
	0630	1.62		0937	0.52		1208	1.22
	1300	0.49		1545	1.27		1722	0.79
	1908	1.45	2109	0.76				
<b>4</b> TU	0056	0.59	<b>15</b> SA	0345	1.70	<b>26</b> WE	0001	1.64
	0706	1.65		1041	0.46		0709	0.65
	1330	0.45		1651	1.36		1303	1.18
	1939	1.53	2226	0.68	1812	0.86		
<b>5</b> WE	0133	0.53	<b>16</b> SU	0452	1.75	<b>27</b> TH	0053	1.56
	0742	1.67		1134	0.39		0809	0.69
	1359	0.43		1744	1.48		1410	1.17
	2010	1.61	2330	0.57	1918	0.89		
<b>6</b> TH	0211	0.48	<b>17</b> MO	0549	1.80	<b>28</b> FR	0156	1.51
	0817	1.65		1221	0.34		0911	0.69
	1428	0.43		1831	1.61		1522	1.20
	2042	1.68			2036	0.90		
<b>7</b> FR	0250	0.45	<b>18</b> TU	0028	0.48	<b>29</b> SA	0306	1.49
	0855	1.62		0641	1.80		1006	0.66
	1458	0.44		1304	0.32		1624	1.26
	2115	1.74	1915	1.72	2150	0.86		
<b>8</b> SA	0331	0.44	<b>19</b> WE	0120	0.40	<b>30</b> SU	0409	1.51
	0934	1.56		0730	1.76		1053	0.62
	1530	0.48		1344	0.34		1712	1.35
	2152	1.78	1958	1.80	2251	0.79		
<b>9</b> SU	0416	0.45	<b>20</b> TH	0211	0.37			
	1017	1.48		0816	1.69			
	1603	0.53		1421	0.39			
	2231	1.78	2039	1.86				
<b>10</b> MO	0506	0.48	<b>21</b> FR	0300	0.37			
	1105	1.39		0902	1.59			
	1643	0.61		1457	0.46			
	2316	1.76	2119	1.87				
<b>11</b> TU	0602	0.52	<b>22</b> SA	0347	0.40			
	1159	1.31		0948	1.48			
	1729	0.68		1531	0.54			
			2159	1.85				

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Indicates high tide of 1.7m or more

Indicates low tide of 0.3m or less

New Moon ●

First Quarter ◐

Full Moon ○

Last Quarter ◑

# MAY / JUNE 2023

## Sydney (Fort Denison)

LAT 33° 51' S      LONG 151° 14' E

Times and heights of high and low waters

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

or daylight savings time (UTC +11:00) when in effect

May 2023						June 2023											
	Time	m	Time	m		Time	m	Time	m	Time	m						
<b>1</b> MO	0500	1.54	<b>12</b>	0104	1.77	<b>23</b>	0459	0.53	<b>1</b>	0545	1.47	<b>12</b>	0300	1.62	<b>23</b>	0551	0.56
	1132	0.57		0813	0.49		1056	1.27		1146	0.54		0934	0.48		1153	1.27
	1751	1.44	FR	1418	1.31	TU	1611	0.75	TH	1817	1.72	MO	1556	1.56	FR	1714	0.76
	2343	0.72		1942	0.77		2247	1.76					2159	0.69		2340	1.65
<b>2</b> TU	0545	1.56	<b>13</b>	0215	1.72	<b>24</b>	0544	0.58	<b>2</b>	0045	0.57	<b>13</b>	0403	1.54	<b>24</b>	0633	0.58
	1207	0.53		0915	0.48		1141	1.24		0632	1.47		1021	0.50		1240	1.28
	1826	1.54	SA	1527	1.38	WE	1653	0.80	FR	1224	0.53	TU	1648	1.65	SA	1804	0.79
			☉	2100	0.75		2329	1.69		1858	1.83		2309	0.64			
<b>3</b> WE	0027	0.64	<b>14</b>	0326	1.70	<b>25</b>	0631	0.63	<b>3</b>	0131	0.48	<b>14</b>	0502	1.46	<b>25</b>	0024	1.58
	0626	1.58		1011	0.46		1230	1.23		0721	1.46		1105	0.52		0716	0.60
	1239	0.50	SU	1626	1.48	TH	1742	0.84	SA	1304	0.53	WE	1738	1.73	SU	1331	1.31
	1900	1.64		2213	0.69					1940	1.92					1902	0.82
<b>4</b> TH	0109	0.56	<b>15</b>	0429	1.69	<b>26</b>	0015	1.62	<b>4</b>	0218	0.40	<b>15</b>	0011	0.58	<b>26</b>	0114	1.50
	0705	1.58		1100	0.44		0722	0.65		0811	1.45		0559	1.41		0800	0.60
	1311	0.48	MO	1717	1.59	FR	1326	1.23	SU	1348	0.54	TH	1148	0.55	MO	1425	1.36
	1933	1.74		2318	0.61		1840	0.87	☉	2025	1.99		1824	1.80	☉	2007	0.83
<b>5</b> FR	0150	0.49	<b>16</b>	0526	1.66	<b>27</b>	0108	1.56	<b>5</b>	0308	0.35	<b>16</b>	0104	0.53	<b>27</b>	0209	1.43
	0746	1.56		1145	0.43		0814	0.66		0904	1.43		0650	1.37		0845	0.60
	1344	0.48	TU	1804	1.70	SA	1426	1.26	MO	1435	0.55	FR	1230	0.58	TU	1516	1.43
	2008	1.83					1946	0.88		2113	2.03		1907	1.85		2117	0.81
<b>6</b> SA	0233	0.44	<b>17</b>	0017	0.54	<b>28</b>	0208	1.51	<b>6</b>	0400	0.33	<b>17</b>	0151	0.49	<b>28</b>	0310	1.38
	0830	1.53		0617	1.62		0904	0.65		0959	1.40		0739	1.34		0930	0.60
	1418	0.50	WE	1226	0.44	SU	1524	1.31	TU	1526	0.58	SA	1310	0.61	WE	1606	1.52
	2047	1.89	☉	1849	1.80	☉	2057	0.87		2202	2.02		1948	1.87		2226	0.75
<b>7</b> SU	0319	0.41	<b>18</b>	0111	0.48	<b>29</b>	0309	1.48	<b>7</b>	0455	0.34	<b>18</b>	0234	0.47	<b>29</b>	0411	1.35
	0916	1.48		0707	1.56		0950	0.62		1055	1.38		0825	1.32		1014	0.59
	1457	0.54	TH	1304	0.48	MO	1615	1.40	WE	1620	0.61	SU	1349	0.63	TH	1654	1.63
	2129	1.93		1931	1.86		2204	0.83		2256	1.98	☉	2028	1.87		2328	0.65
<b>8</b> MO	0408	0.41	<b>19</b>	0200	0.44	<b>30</b>	0405	1.47	<b>8</b>	0553	0.36	<b>19</b>	0315	0.47	<b>30</b>	0511	1.35
	1007	1.43		0755	1.49		1031	0.59		1153	1.37		0907	1.31		1100	0.57
	1540	0.59	FR	1342	0.52	TU	1700	1.50	TH	1719	0.65	MO	1429	0.66	FR	1741	1.74
	2214	1.92		2012	1.90		2303	0.76		2352	1.91		2106	1.85			
<b>9</b> TU	0501	0.42	<b>20</b>	0247	0.43	<b>31</b>	0457	1.47	<b>9</b>	0651	0.39	<b>20</b>	0353	0.48			
	1100	1.37		0842	1.42		1109	0.56		1255	1.38		0948	1.30			
	1628	0.65	SA	1418	0.58	WE	1739	1.61	FR	1823	0.69	TU	1507	0.68			
	2304	1.89	☉	2051	1.90		2356	0.67					2144	1.82			
<b>10</b> WE	0601	0.46	<b>21</b>	0331	0.45				<b>10</b>	0051	1.82	<b>21</b>	0432	0.51			
	1200	1.32		0928	1.37					0748	0.42		1029	1.28			
	1723	0.71	SU	1455	0.64				SA	1358	1.41	WE	1547	0.70			
				2130	1.88					1932	0.71		2221	1.77			
<b>11</b> TH	0000	1.83	<b>22</b>	0415	0.48				<b>11</b>	0155	1.71	<b>22</b>	0511	0.54			
	0706	0.48		1012	1.32					0844	0.45		1110	1.27			
	1306	1.29	MO	1531	0.70				SU	1459	1.47	TH	1629	0.73			
	1828	0.76		2208	1.83				☉	2045	0.71		2300	1.72			

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Indicates high tide of 1.7m or more      Indicates low tide of 0.3m or less

New Moon ●      First Quarter ☉      Full Moon ○      Last Quarter ☾

# Time variations – NSW ports and rivers

The following tables show tidal variations at several locations along the NSW coastline and in coastal rivers. The time variation should be added to the corresponding Fort Denison time. In view of the variations caused by local conditions and meteorological effects, these times are approximate and must be considered as a guide only. They are not to be relied on for critical depth calculations for safe navigation. Actual times of High and Low Water may occur before or after the times indicated.

Station	Approximate time lag after Fort Denison	
	High Water	Low Water
<b>TWOFOLD BAY</b>		
Eden	NIL	NIL
<b>MERIMBULA LAKE</b>		
Bridge	1 hr 30 min	1 hr 30 min
Within the Lake	2 hrs	3 to 4 hrs
<b>BERMAGUI RIVER</b>		
Bermagui Bridge	45 min	45 min
<b>WAGONGA INLET</b>		
Narooma	45 min	30 min
<b>MORUYA RIVER</b>		
Moruya	45 min	45 min
<b>BATEMANS BAY</b>		
	NIL	NIL
<b>CLYDE RIVER</b>		
Bridge	15 min	15 min
<b>ULLADULLA</b>		
	NIL	NIL
<b>JERVIS BAY</b>		
	NIL	NIL
<b>CROOKHAVEN RIVER</b>		
Crookhaven Jetty	15 min	15 min
Greenwell Point	45 min	45 min
<b>SHOALHAVEN RIVER</b>		
O'Keefes Point	2 hrs	2 hrs 15 min
Nowra	2 hrs 10 min	2 hrs 20 min
Gypsy Point	3 hrs	3 hrs 30 min
<b>KIAMA</b>		
	NIL	NIL
<b>LAKE ILLAWARRA</b>		
Bridge	15 min	1 hr 45 min
<b>PORT KEMBLA</b>		
	NIL	NIL
<b>WOLLONGONG</b>		
	NIL	NIL
<b>PORT HACKING</b>		
Burraneer	15 min	NIL
Lilli Pilli	30 min	45 min
Audley	30 min	1 hr

Station	Approximate time lag after Fort Denison	
	High Water	Low Water
<b>BOTANY BAY &amp; GEORGES RIVER</b>		
Kurnell	NIL	NIL
Dolls Point	15 min	15 min
Como	30 min	15 min
Lugaro	1 hr	NIL
Milperra	2 hrs 15 min	2 hrs 10 min
Liverpool	2 hrs 45 min	2 hrs 30 min
<b>SYDNEY</b>		
Fort Denison	NIL	NIL
Gladesville Bridge	15 min	15 min
Silverwater Bridge	15 min	15 min
Fig Tree Bridge	15 min	15 min
The Spit Bridge	NIL	NIL
<b>HAWKESBURY RIVER</b>		
Peats Ferry Bridge	1 hr	1 hr
Wisemans Ferry	2 hrs 15 min	2 hrs 30 min
Lower Portland Ferry	3 hrs 5 min	3 hrs 5 min
Windsor	5 hrs 15 min	5 hrs 50 min
Pittwater	NIL	NIL
<b>HUNTER RIVER</b>		
Newcastle	NIL	NIL
Hexham	1 hr 10 min	1 hr
Raymond Terrace	1 hr 50 min	1 hr 55 min
Morpeth	3 hrs 10 min	3 hrs 30 min
<b>BRISBANE WATER</b>		
Ettalong	30 min	40 min
Koolewong	2 hrs 10 min	2 hrs 20 min
<b>LAKE MACQUARIE</b>		
Swansea	0 to 15 min	15 min
Within the Lake	2 hrs 50 min	30 min



# Time variations – NSW ports and rivers

Station	Approximate time lag after Fort Denison	
	High Water	Low Water
<b>PORT STEPHENS</b>		
Nelson Bay	30 min	15 min
Salamander Bay	45 min	30 min
Soldiers Point	1 hr	45 min
Karuah		
(Karuah River)	1 hr 15 min	45 min
Pindimar	45 min	45 min
Tea Gardens	1 hr	45 min
<b>BROUGHTON ISLAND</b>	NIL	NIL
<b>CAPE HAWKE HARBOUR</b>		
Forster	0 to 15 min	NIL
Wallamba River (mouth)	1 hr 50 min	2 hrs 10 min
Nabiac	3 hrs	Limited information only
<b>MANNING RIVER</b>		
	Based on bar at Harrington	
Harrington	NIL	15 to 30 min
Taree	2 hrs	2 hrs 45 min
Wingham	3 hrs 15 min	3 hrs 45 min
<b>CROWDY HEAD</b>	NIL	NIL
<b>CAMDEN HAVEN</b>		
Laurieton	30 min	1 hr
Watson Taylors Lake	2 hrs	2 hrs
Kendall	3 hrs 30 min	4 hrs
Queens Lake	2 hrs	2 hrs 15 min
<b>HASTINGS RIVER</b>		
Port Macquarie Wharf	15 to 30 min	15 to 30 min
Blackmans Point	1 hr 30 min	1 hr 15 min
Wauchope	1 hr 50 min	1 hr 15 min
<b>TRIAL BAY</b>	NIL	NIL
<b>MACLEAY RIVER</b>		
Jerseyville	1 hr	1 hr 15 min
Gladstone	2 hrs 10 min	2 hrs 20 min
Frederickton	3 hrs 15 min	4 hrs 15 min
Kempsey	3 hrs 15 min	3 hrs 20 min

Station	Approximate time lag after Fort Denison	
	High Water	Low Water
<b>NAMBUCCA RIVER</b>		
	Limited information only	
Watts Creek	1 hr	
Macksville	1 hr 30 min	2 hrs 10 min
<b>KALANG RIVER</b>		
Urunga Bridge	1 hr 20 min	1 hr 40 min
<b>BELLINGER RIVER</b>		
	Limited information only	
Mylestom	30 min	1 hr
Raleigh	1 hr	1 hr 30 min
Bellingen	1 hr 40 min	2 hrs 10 min
<b>COFFS HARBOUR</b>	0 to 15 min	0 to 15 min
<b>N.W. SOLITARY ISLAND</b>	NIL	NIL
<b>WOOLI RIVER</b>		
Fishing Co-op	15 min	15 min
Wooli	1 hr 5 min	1 hr 50 min
<b>SANDON RIVER</b>		
Sandon	30 min	30 min
<b>CLARENCE RIVER</b>		
Iluka	NIL	NIL
Maclean	2 hrs 15 min	2 hrs 25 min
Ulmarra	4 hrs 30 min	5 hrs
Grafton	4 hrs 10 min	4 hrs 30 min
<b>EVANS RIVER</b>		
Evans Head Bridge	NIL	15 min
<b>RICHMOND RIVER</b>		
Ballina Boat Dock	15 min	15 min
Wardell	1 hr 30 min	2 hrs
Broadwater	1 hr 45 min	2 hrs 30 min
Coraki	4 hrs	4 hrs 30 min
Lismore	1 hr 15 min	1 hr
<b>BYRON BAY</b>	NIL	NIL
<b>BRUNSWICK RIVER</b>		
Pacific Highway Bridge	30 min	1 hr
<b>TWEED RIVER</b>		
Terranora Inlet	2 hrs 10 min	2 hrs 25 min
Chinderah	1 hr 15 min	2 hrs
Murwillumbah	2 hrs 30 min	2 hrs 50 min