

# VIC TIDES

## 2022

EDITION 6



**Ports Victoria handles more than 3500 commercial vessels a year. The ports of Melbourne, Geelong and Hastings operate 24/7 365 days a year.**

Large vessels must keep within the declared channels or anchorages and they have right of way in the channels: they cannot steer if they slow down too much so they may not be able to avoid you.

Report any navigational issues to Vessel Traffic Services on (03) 9644 9789.

# KEEP CLEAR OF BIG SHIPS

## ADVICE FOR RECREATIONAL BOAT OWNERS TO STAY SAFE:

-  Always keep a lookout – you might not hear a vessel approach over your engine noise and the sound of wind and water.
-  Always show appropriate lights at night.
-  After ships pass, be prepared for large waves that may swamp or capsize your boat.
-  Do not anchor in the channels – it is illegal.
-  Do not anchor or drift in a Transit Only Zone – it is illegal.
-  If an approaching big ship is blowing its whistle it means: '**GET OUT OF THE WAY**'.
-  Do not tie to navigation aids like buoys and channel marks, it is illegal.
-  Help us to keep navigation in the channels and port waters safe for all vessels.
-  Cross channels only when safe to do so.





Ports Victoria is pleased to produce the Victorian Tide Tables booklet for 2022.

The information in this publication has been carefully compiled from various sources to enable mariners to navigate safely in Victoria's State waters.

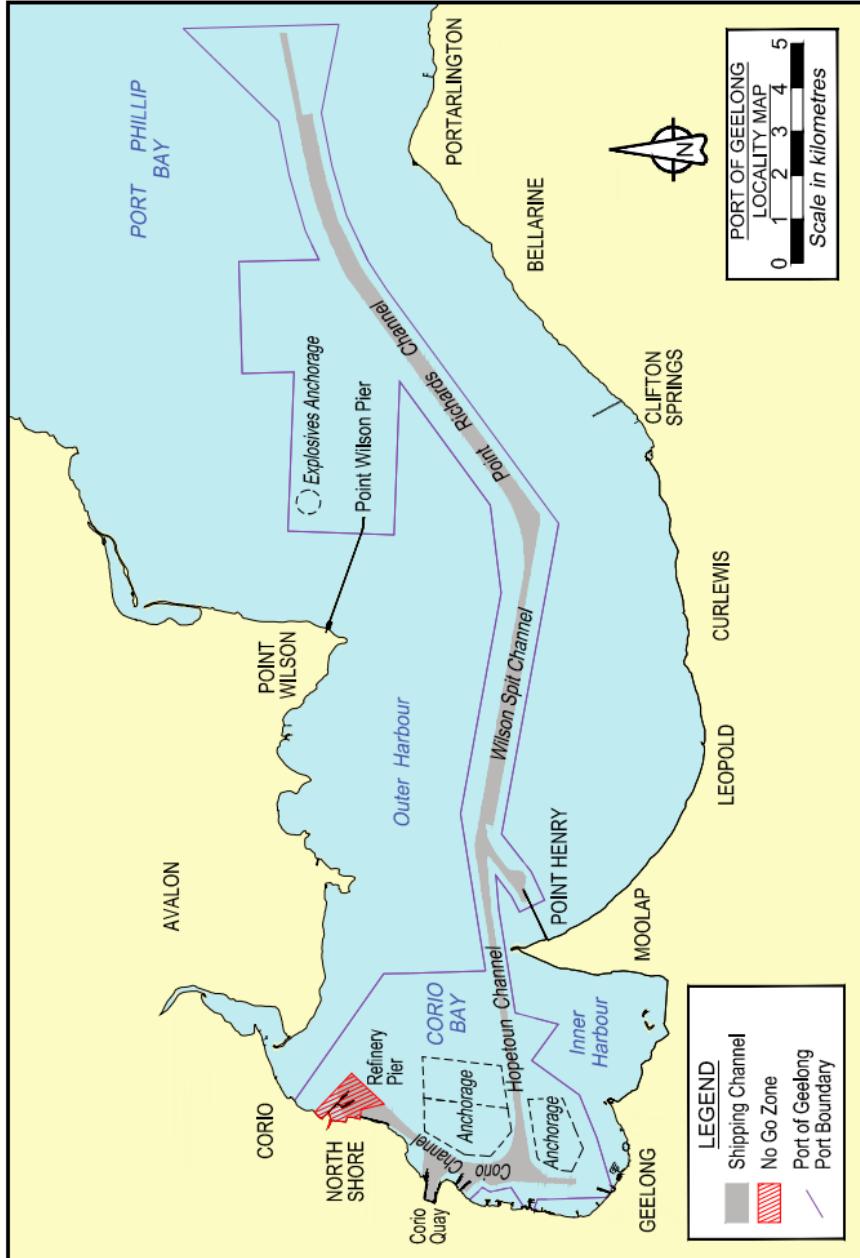
While wishing you a safe and enjoyable year of navigating within Port Phillip, Western Port and along the Victorian coastline, I would also like to remind you to please :

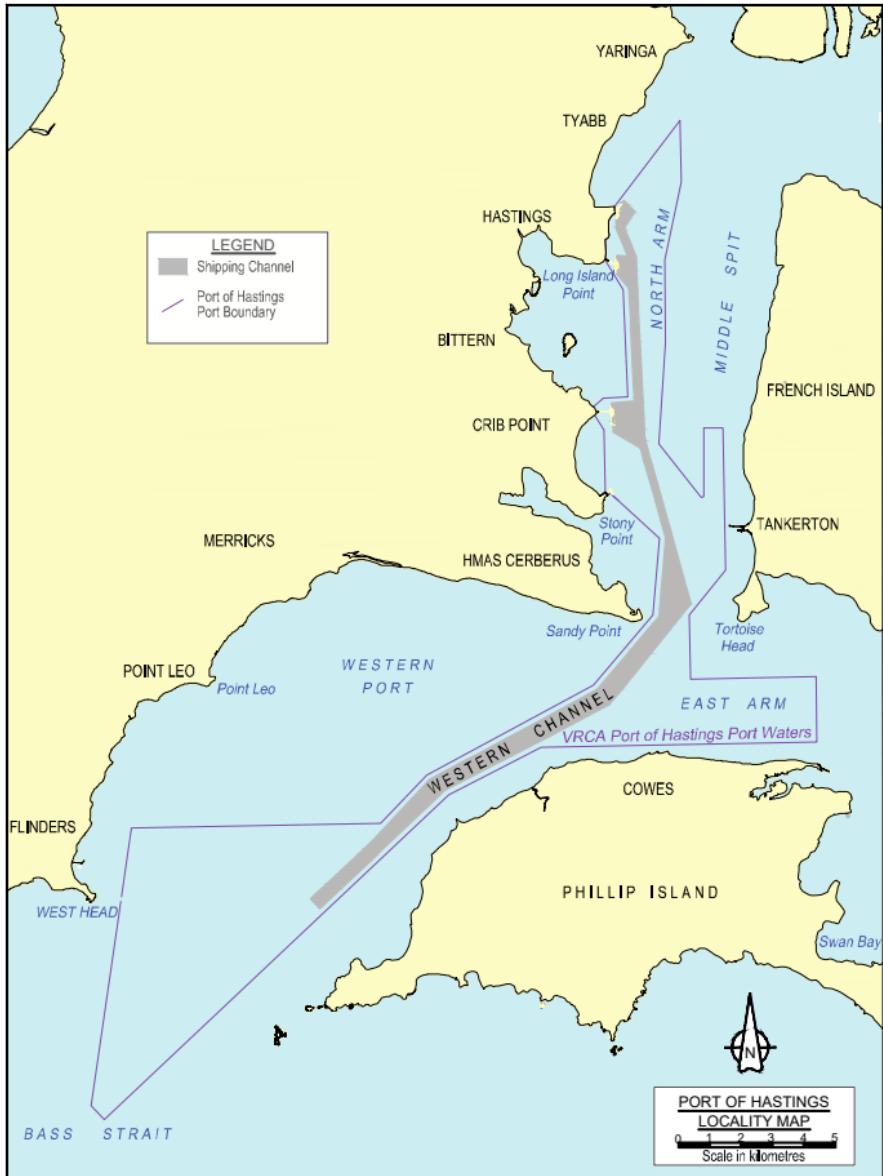
- 'Keep Clear of Big Ships'
- comply with the International Regulations for Preventing Collisions at Sea
- comply with Maritime Safety Victoria's waterway rules: and always
- make sure your boat and engine are seaworthy before you head out.

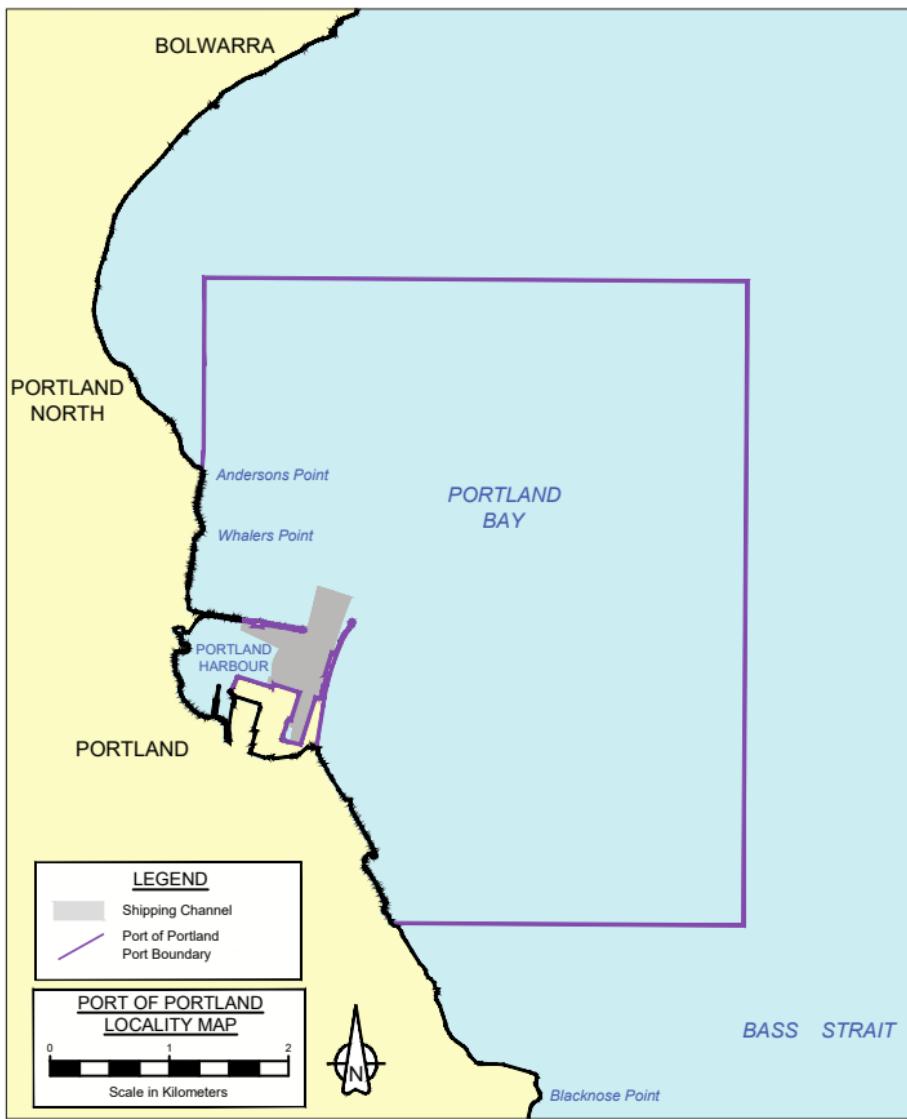
**Peter Mannion**

Chief Operating Officer

Ports Victoria







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*This publication may be purchased from selected retailers. RRP \$10.00 (inc GST)*

*Discounts available for bulk purchases or download a digital copy for free - see the Victorian Tide Tables page under News & Publications at [www.vrca.vic.gov.au/recreational/victorian-tide-tables/](http://www.vrca.vic.gov.au/recreational/victorian-tide-tables/)*

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## About Ports Victoria

Ports Victoria is a Victorian Government authority that manages the safe transit of vessels into and out of Victoria's commercial ports. It provides maritime expertise, informing the strategic development and operations within Victoria's commercial ports and waterways.

Its creation was a key recommendation of the State Government's independent review of the Victorian ports system conducted in 2020-21. It is the amalgamation of the former Victorian Regional Channels Authority (VRCA) and Victorian Ports Corporation (Melbourne) (VPCM).

Ports Victoria started operations on 1 July 2021 and is headquartered in Geelong.

For more information, please visit our website at [ports.vic.gov.au](http://ports.vic.gov.au).



# Glossary

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## **Australian Height Datum (AHD)**

A geodetic datum for height measurement in Australia. This datum was established in 1971 by assigning the mean sea level for 1966-1968 (measured by 30 tide gauges around the coast of Australia) the value of 0.000m AHD. The resulting surface model is what has been adopted as the vertical height datum for surveying and mapping in Australia. Chart datum can be derived from AHD when the correct local separation value is applied.

## **Chart Datum**

Chart Datum is the plane from which depths on nautical charts are measured from. The Lowest Astronomical Tide (LAT) is generally accepted as the standard Chart Datum in Australia.

## **LAT (Lowest Astronomical Tide)**

The lowest tide level which can be predicted to occur under average meteorological conditions and under any combination of astronomical conditions.

## **HAT (Highest Astronomical Tide)**

The highest tidal level which can be predicted to occur under average meteorological conditions and under any combination of astronomical conditions.

## **Tide**

The periodic rise and fall of the surface of oceans, bays, etc., due principally to the gravitational interactions between the moon, sun and earth.

## **Diurnal Tide**

A tide in which the tidal cycle consists of one high water and one low water each tidal day.

## **Ebb Stream**

The horizontal movement of water associated with falling tide. Ebb streams generally set seaward, or in the opposite direction to the tide progression. Also called ebb, ebb current or outgoing stream.

## **Flood Stream**

The horizontal movement of water associated with the rising tide. Flood streams generally set toward the shore, or in the direction of the tide progression. Also called flood, flood current or ingoing stream.

## **Phases of the moon**

 New Moon  First Quarter  Full Moon  Last Quarter

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**Semi-Diurnal Tide**

A tide in which the tidal cycle consists of two high waters and two low waters each tidal day, with comparatively little diurnal inequality.

**Spring Tide**

The tides of increased range occurring near the times of full moon and new moon

**Neap Tide**

The tides of decreased range occurring near the times of first and last quarter.

**MLWS Mean Low Water Springs**

The average height of the low waters of spring tides. This level is used as a tidal datum in some areas. Also called spring low water.

**MHWS Mean High Water Springs**

The average height of the high waters of spring tides. Also called spring high water.

**MLWN Mean Low Water Neaps**

The average height of the low waters of neap tides. Also called neap low water.

**MHWN Mean High Water Neaps**

The average height of the high waters of neap tides. Also called neap high water.

**MSL Mean Sea Level.**

The average height of the surface of the sea at a tide station for all stages of the tide over a 19-year period, usually determined from hourly height readings measured from a fixed predetermined reference level

**MHHW Mean Higher High Water**

The average height of higher high waters at a place over a 19-year period.

**MLHW Mean Lower High Water**

The average of the lower of the two daily high tides preferably over a 19-year period.

**MHLW Mean Higher Low Water**

The average of the higher of the two daily low tides preferably over a 19-year period.

**MLLW Mean Lower Low Water**

The average height of the lower low water at a place over a 19-year period.

# Geelong

## Time Differences for Supplementary Locations – based on Geelong

Location	Time diff (earlier) later	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
	HM	metres	metres	metres	metres
<i>Port Phillip Heads</i>	(3 20)	1.6	1.1	0.7	0.2
<i>West Channel Pile Light</i>	(0 20)	0.9	0.6	0.4	0.1
<i>Portarlington</i>	(0 15)	0.9	0.6	0.4	0.1
<i>No. 1 Point Richards Channel</i>	(0 10)	0.9	0.6	0.4	0.1
<i>Point Wilson</i>	(0 05)	0.9	0.6	0.4	0.1
<i>Point Henry</i>	(0 02)	1.0	0.7	0.5	0.1
<b>Geelong (Inner Harbour)</b>	<b>0 00</b>	<b>1.1</b>	<b>0.7</b>	<b>0.5</b>	<b>0.2</b>
Cunningham Pier	0 00	1.0	0.7	0.5	0.1

# Geelong Datums

Latitude 38°09' S Longitude 144°22' E (WGS 84)

AHD metres	Predominantly diurnal tides	Chart Datum metres
1.13	Highest recorded tide 05/07/2011 (1965-2019)	1.71
0.66	Highest Astronomical Tide (HAT)	1.24
0.56	Mean Higher High Water (MHHW)	1.14
0.21	Mean Lower High Water (MLHW)	0.79
0.01	Mean Higher Lower Water (MHLW)	0.59
<b>0.000</b>	<b>Australian Height Datum</b>	<b>0.580</b>
-0.33	Mean Lower Low Water (MLLW)	0.25
-0.524	Chart Datum (Outer Harbour)	0.056
<b>-0.580</b>	<b>Chart &amp; Prediction Datum (Geelong)</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-0.81	Lowest recorded tide 07/03/1972 (1965-2019)	-0.23

'Information supplied by Commonwealth of Australia, Bureau of Meteorology & Australian Hydrographic Office

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0056	0.93		<b>9</b>	0151	0.24		<b>17</b>	0317	0.96		<b>25</b>	0158	0.31
	0604	0.60			0814	1.09			0924	0.62			0813	1.05
SA	1151	0.97		SU	1440	0.31		MO	1323	0.87		TU	1444	0.31
	1927	0.19			2027	0.96			2102	0.21		●	2036	0.96
<b>2</b>	0218	0.97		<b>10</b>	0233	0.30		<b>18</b>	0409	1.00		<b>26</b>	0230	0.36
	0729	0.63			0852	1.07			1019	0.58			0845	1.04
SU	1246	0.96		MO	1523	0.29		TU	1421	0.87		WE	1522	0.27
	2033	0.15		●	2119	0.95		○	2155	0.20			2125	0.96
<b>3</b>	0329	1.02		<b>11</b>	0314	0.37		<b>19</b>	0453	1.02		<b>27</b>	0307	0.41
	0911	0.62			0930	1.04			1103	0.54			0916	1.03
MO	1351	0.96		TU	1606	0.27		WE	1517	0.87		TH	1605	0.24
●	2136	0.13			2212	0.93			2245	0.19			2216	0.94
<b>4</b>	0429	1.06		<b>12</b>	0354	0.44		<b>20</b>	0531	1.03		<b>28</b>	0347	0.47
	1032	0.58			1005	1.01			1143	0.49			0950	1.02
TU	1457	0.96		WE	1650	0.27		TH	1614	0.89		FR	1653	0.22
	2235	0.13			2305	0.91			2330	0.20			2316	0.92
<b>5</b>	0521	1.08		<b>13</b>	0432	0.51		<b>21</b>	0606	1.04		<b>29</b>	0432	0.54
	1135	0.52			1036	0.97			1219	0.46			1028	1.00
WE	1601	0.97		TH	1735	0.26		FR	1710	0.90		SA	1749	0.20
	2331	0.14												
<b>6</b>	0609	1.10		<b>14</b>	0003	0.91		<b>22</b>	0012	0.21		<b>30</b>	0030	0.91
	1228	0.46			0512	0.57			0639	1.05			0529	0.59
TH	1711	0.96		FR	1102	0.93		SA	1255	0.42		SU	1115	0.97
					1823	0.25			1806	0.91			1857	0.18
<b>7</b>	0022	0.16		<b>15</b>	0108	0.91		<b>23</b>	0049	0.24		<b>31</b>	0152	0.92
	0652	1.10			0604	0.62			0711	1.05			0643	0.62
FR	1314	0.40		SA	1139	0.90		SU	1330	0.39		MO	1218	0.95
	1826	0.96			1914	0.24			1859	0.93			2008	0.17
<b>8</b>	0108	0.20		<b>16</b>	0215	0.93		<b>24</b>	0124	0.27				
	0733	1.10			0804	0.64			0742	1.05				
SA	1358	0.35		SU	1228	0.88		MO	1406	0.35				
	1930	0.96			2008	0.23			1948	0.95				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY – 2022

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0305	0.95		<b>9</b>	0251	0.39	<b>17</b>	0419	0.96	<b>25</b>	0245	0.45
	0846	0.61			0853	1.03		1030	0.51		0845	1.03
TU	1334	0.93		WE	1531	0.23	TH	1503	0.84	FR	1539	0.20
●	2116	0.16			2143	0.97	○	2227	0.23		2201	0.98
<b>2</b>	0408	0.99		<b>10</b>	0324	0.45	<b>18</b>	0459	0.98	<b>26</b>	0324	0.50
	1016	0.54			0921	1.00		1112	0.44		0920	1.01
WE	1448	0.92		TH	1609	0.23	FR	1618	0.87	SA	1626	0.20
	2222	0.16			2229	0.95		2315	0.23		2259	0.94
<b>3</b>	0501	1.02		<b>11</b>	0353	0.50	<b>19</b>	0535	1.01	<b>27</b>	0409	0.54
	1120	0.46			0947	0.97		1151	0.39		1000	0.99
TH	1604	0.92		FR	1647	0.23	SA	1721	0.91	SU	1723	0.21
	2321	0.17			2316	0.92		2357	0.25			
<b>4</b>	0548	1.05		<b>12</b>	0422	0.55	<b>20</b>	0609	1.02	<b>28</b>	0006	0.91
	1212	0.38			1017	0.94		1230	0.34		0507	0.58
FR	1729	0.94		SA	1729	0.24	SU	1813	0.96	MO	1054	0.95
											1830	0.22
<b>5</b>	0013	0.20		<b>13</b>	0011	0.89	<b>21</b>	0035	0.29			
	0630	1.06			0504	0.59		0641	1.03			
SA	1257	0.32		SU	1058	0.90	MO	1307	0.30			
	1832	0.97			1816	0.24		1859	0.99			
<b>6</b>	0057	0.24		<b>14</b>	0116	0.88	<b>22</b>	0109	0.32			
	0709	1.07			0600	0.62		0712	1.04			
SU	1337	0.28		MO	1148	0.86	TU	1344	0.26			
	1925	0.99			1915	0.25		1944	1.02			
<b>7</b>	0137	0.28		<b>15</b>	0230	0.89	<b>23</b>	0140	0.36			
	0745	1.06			0728	0.63		0742	1.04			
MO	1416	0.25		TU	1246	0.84	WE	1419	0.23			
	2013	0.99			2025	0.25		2028	1.02			
<b>8</b>	0215	0.33		<b>16</b>	0332	0.92	<b>24</b>	0211	0.41			
	0820	1.05			0939	0.58		0813	1.04			
TU	1454	0.24		WE	1352	0.83	TH	1458	0.21			
●	2058	0.99			2130	0.24	○	2113	1.01			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## MARCH – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0120	0.90		<b>9</b>	0156	0.39		<b>17</b>	0232	0.89	<b>25</b>	0152	0.48
	0636	0.59			0742	1.02			0845	0.55		0741	1.04
TU	1212	0.91		WE	1419	0.22		TH	1330	0.81		1433	0.20
	1945	0.22			2031	1.05			2101	0.33		2100	1.06
<b>2</b>	0232	0.92		<b>10</b>	0227	0.43		<b>18</b>	0329	0.92	<b>26</b>	0229	0.51
	0832	0.55			0810	1.01			0945	0.47		0817	1.03
WE	1337	0.89		TH	1452	0.22		FR	1511	0.85		1515	0.21
	2100	0.23			2111	1.03			2201	0.32		2149	1.02
<b>3</b>	0338	0.95		<b>11</b>	0253	0.46		<b>19</b>	0414	0.95	<b>27</b>	0311	0.53
	0959	0.46			0837	1.00			1033	0.39		0859	1.01
TH	1501	0.89		FR	1525	0.22		SA	1621	0.92		1604	0.23
	2210	0.24			2149	1.00			2252	0.33		2244	0.98
<b>4</b>	0434	0.98		<b>12</b>	0319	0.50		<b>20</b>	0453	0.98	<b>28</b>	0405	0.56
	1101	0.37			0907	0.97			1116	0.32		0947	0.96
FR	1630	0.93		SA	1600	0.23		SU	1715	0.99		1700	0.26
	2312	0.25			2229	0.96			2336	0.35		2344	0.95
<b>5</b>	0521	1.01		<b>13</b>	0351	0.53		<b>21</b>	0530	1.00	<b>29</b>	0521	0.56
	1151	0.30			0942	0.94			1158	0.27		1058	0.92
SA	1734	0.98		SU	1639	0.25		MO	1803	1.05		1805	0.29
					2314	0.92							
<b>6</b>	0002	0.27		<b>14</b>	0431	0.57		<b>22</b>	0016	0.39	<b>30</b>	0047	0.94
	0602	1.02			1023	0.90			0603	1.02		0649	0.54
SU	1233	0.26		MO	1725	0.27		TU	1238	0.23		1227	0.89
	1825	1.02							1847	1.09		1920	0.33
<b>7</b>	0045	0.31		<b>15</b>	0008	0.89		<b>23</b>	0051	0.42	<b>31</b>	0153	0.94
	0638	1.03			0522	0.59			0634	1.03		0819	0.47
MO	1310	0.23		TU	1112	0.85		WE	1315	0.21		1354	0.89
	1910	1.04			1821	0.30			1931	1.10		2043	0.35
<b>8</b>	0122	0.35		<b>16</b>	0118	0.87		<b>24</b>	0122	0.46			
	0712	1.03			0633	0.60			0706	1.04			
TU	1345	0.22		WE	1212	0.82			1354	0.20			
	1951	1.05			1942	0.33			2015	1.09			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

Geelong

## APRIL – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0300	0.95		<b>9</b>	0223	0.51		<b>17</b>	0313	0.96	<b>25</b>	0327	0.56
	0936	0.39			0756	1.01			0951	0.34		0853	1.00
FR	1523	0.93		SA	1443	0.24		SU	1605	1.01	MO	1547	0.29
●	2159	0.36		○	2112	1.06		○	2222	0.48		2227	1.05
<b>2</b>	0400	0.97		<b>10</b>	0250	0.53		<b>18</b>	0359	0.98	<b>26</b>	0428	0.55
	1035	0.31			0832	0.98			1039	0.27		1000	0.95
SA	1631	1.00		SU	1518	0.26		MO	1659	1.09	TU	1640	0.35
	2259	0.37			2148	1.02			2311	0.50		2318	1.03
<b>3</b>	0447	0.99		<b>11</b>	0326	0.55		<b>19</b>	0439	1.00	<b>27</b>	0532	0.52
	1122	0.26			0910	0.95			1124	0.23		1119	0.92
SU	1724	1.06		MO	1557	0.29		TU	1746	1.14	WE	1740	0.40
	2347	0.38			2229	0.98			2355	0.52			
<b>4</b>	0527	1.00		<b>12</b>	0408	0.57		<b>20</b>	0515	1.03	<b>28</b>	0014	1.01
	1201	0.24			0952	0.90			1207	0.21		0643	0.48
MO	1809	1.10		TU	1638	0.33		WE	1832	1.17	TH	1240	0.92
					2315	0.95						1855	0.46
<b>5</b>	0028	0.41		<b>13</b>	0500	0.58		<b>21</b>	0035	0.54	<b>29</b>	0112	0.99
	0600	1.00			1041	0.86			0552	1.05		0759	0.41
TU	1236	0.23		WE	1726	0.38		TH	1249	0.20	FR	1402	0.95
	1849	1.12							1917	1.17		2025	0.49
<b>6</b>	0103	0.44		<b>14</b>	0010	0.93		<b>22</b>	0112	0.55	<b>30</b>	0214	0.98
	0628	1.01			0613	0.56			0631	1.07		0906	0.34
WE	1308	0.23		TH	1145	0.84		FR	1330	0.21	SA	1517	1.02
	1928	1.12			1838	0.44			2003	1.15		2141	0.50
<b>7</b>	0133	0.47		<b>15</b>	0115	0.92		<b>23</b>	0148	0.56			
	0654	1.02			0751	0.51			0714	1.06			
TH	1339	0.24		FR	1329	0.85		SA	1414	0.22			
	2003	1.11			2018	0.46		○	2049	1.12			
<b>8</b>	0200	0.49		<b>16</b>	0219	0.93		<b>24</b>	0233	0.57			
	0723	1.02			0859	0.42			0800	1.04			
FR	1411	0.24		SU	1502	0.92			1459	0.25			
	2038	1.09			2127	0.47			2136	1.08			

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 When daylight saving time is in force, add one hour to times

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0314	0.98	<b>9</b>	0230	0.58	<b>17</b>	0249	1.02	<b>25</b>	0427	0.50
	1000	0.29		0802	0.99		1001	0.25		1014	0.98
SU	1616	1.09	MO	1445	0.31	TU	1639	1.16	WE	1619	0.44
●	2238	0.50	○	2115	1.09		2242	0.64		2251	1.10
<b>2</b>	0402	0.98	<b>10</b>	0310	0.58	<b>18</b>	0338	1.04	<b>26</b>	0523	0.46
	1045	0.26		0844	0.96		1051	0.22		1123	0.96
MO	1705	1.14	TU	1522	0.35	WE	1730	1.20	TH	1714	0.51
	2326	0.51		2154	1.06		2335	0.64		2339	1.07
<b>3</b>	0437	0.98	<b>11</b>	0355	0.57	<b>19</b>	0425	1.07	<b>27</b>	0625	0.42
	1124	0.26		0929	0.93		1140	0.21		1235	0.97
TU	1748	1.17	WE	1600	0.40	TH	1818	1.22	FR	1825	0.59
		2235	1.04								
<b>4</b>	0006	0.53	<b>12</b>	0448	0.56	<b>20</b>	0024	0.63	<b>28</b>	0029	1.04
	0501	1.00		1022	0.90		0513	1.08		0729	0.37
WE	1157	0.26	TH	1641	0.46		1227	0.22	SA	1350	1.01
	1827	1.18		2319	1.02		1904	1.22		1959	0.63
<b>5</b>	0042	0.54	<b>13</b>	0553	0.52	<b>21</b>	0112	0.61	<b>29</b>	0118	1.01
	0528	1.02		1134	0.89		0603	1.09		0829	0.33
TH	1228	0.26	FR	1733	0.53		1313	0.24	SU	1458	1.08
	1902	1.17					1950	1.20	2114	0.63	
<b>6</b>	0110	0.56	<b>14</b>	0007	1.00	<b>22</b>	0158	0.59	<b>30</b>	0205	0.99
	0602	1.03		0705	0.46		0657	1.08		0920	0.30
FR	1300	0.27	SA	1315	0.92		1359	0.27	MO	1555	1.14
	1935	1.16		1908	0.60		2034	1.18	●	2212	0.62
<b>7</b>	0133	0.57	<b>15</b>	0100	1.00	<b>23</b>	0245	0.56	<b>31</b>	0241	0.99
	0642	1.03		0812	0.38		0758	1.05		1004	0.29
SA	1332	0.27	SU	1440	1.00		1444	0.31	TU	1644	1.18
	2007	1.13		2040	0.62		2119	1.15		2300	0.62
<b>8</b>	0158	0.57	<b>16</b>	0155	1.01	<b>24</b>	0334	0.53			
	0721	1.02		0909	0.30		0904	1.01			
SU	1408	0.29	MO	1544	1.09		1530	0.37			
	2041	1.11	○	2145	0.63		2205	1.13			

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JUNE – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0312	1.00		<b>9</b>	0345	0.54		<b>17</b>	0348	1.09		<b>25</b>	0555	0.37
	1044	0.28			0917	0.96			1120	0.22			1214	1.01
WE	1727	1.20		TH	1530	0.45		FR	1803	1.22		SA	1745	0.66
	2343	0.62			2200	1.11						2339	1.06	
<b>2</b>	0353	1.02		<b>10</b>	0432	0.51		<b>18</b>	0014	0.65		<b>26</b>	0650	0.35
	1118	0.29			1015	0.95			0447	1.09			1322	1.03
TH	1805	1.20		FR	1611	0.52		SA	1211	0.23		SU	1911	0.71
					2238	1.09			1849	1.22				
<b>3</b>	0019	0.62		<b>11</b>	0526	0.46		<b>19</b>	0104	0.60		<b>27</b>	0013	1.03
	0438	1.04			1125	0.95			0549	1.09			0745	0.33
FR	1153	0.29		SA	1700	0.60		SU	1259	0.26		MO	1429	1.07
	1840	1.19			2318	1.08			1933	1.22			2035	0.72
<b>4</b>	0049	0.62		<b>12</b>	0626	0.40		<b>20</b>	0150	0.55		<b>28</b>	0049	1.00
	0523	1.04			1246	0.98			0658	1.07			0835	0.31
SA	1229	0.30		SU	1802	0.67		MO	1345	0.30		TU	1529	1.11
	1912	1.17							2015	1.21			2140	0.70
<b>5</b>	0115	0.61		<b>13</b>	0002	1.07		<b>21</b>	0236	0.50		<b>29</b>	0136	1.00
	0608	1.04			0730	0.34			0806	1.05			0922	0.30
SU	1304	0.31		MO	1411	1.04		TU	1429	0.36		WE	1620	1.15
	1943	1.16			1930	0.72		O	2057	1.19		●	2233	0.68
<b>6</b>	0145	0.61		<b>14</b>	0051	1.06		<b>22</b>	0323	0.46		<b>30</b>	0227	1.00
	0653	1.02			0831	0.28			0909	1.03			1006	0.29
MO	1341	0.33		TU	1521	1.11		WE	1513	0.43		TH	1705	1.16
	2015	1.15		O	2100	0.74			2139	1.17			2319	0.66
<b>7</b>	0219	0.59		<b>15</b>	0146	1.06		<b>23</b>	0411	0.43				
	0738	1.00			0930	0.24			1009	1.02				
TU	1417	0.36		WE	1620	1.17			1558	0.50				
	2048	1.13			2214	0.72			2220	1.14				
<b>8</b>	0300	0.57		<b>16</b>	0248	1.07		<b>24</b>	0501	0.40				
	0826	0.98			1026	0.22			1110	1.00				
WE	1454	0.40		TH	1714	1.20			1646	0.58				
O	2124	1.12			2318	0.69			2301	1.10				

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**JULY – 2022**

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0317	1.01	<b>9</b>	0408	0.42	<b>17</b>	0000	0.59	<b>25</b>	0604	0.33	
FR	1049	0.29		1006	0.99		0440	1.06		1242	1.00	
	1745	1.17	SA	1546	0.55	SU	1158	0.24	MO	1740	0.71	
	2358	0.63		2200	1.12		1830	1.19		2318	1.01	
<b>2</b>	0406	1.02	<b>10</b>	0456	0.38	<b>18</b>	0050	0.52	<b>26</b>	0654	0.32	
	1130	0.29		1105	0.99		0557	1.06		1349	1.01	
SA	1819	1.17	SU	1631	0.62	MO	1246	0.28	TU	1902	0.74	
				2236	1.11		1911	1.19				
<b>3</b>	0031	0.62	<b>11</b>	0549	0.34	<b>19</b>	0136	0.45	<b>27</b>	0005	0.98	
	0455	1.02		1216	0.99		0706	1.06		0747	0.31	
SU	1209	0.31	MO	1724	0.69	TU	1330	0.33	WE	1457	1.03	
	1850	1.16		2317	1.09		1951	1.19		2100	0.73	
<b>4</b>	0102	0.60	<b>12</b>	0652	0.30	<b>20</b>	0219	0.41	<b>28</b>	0100	0.96	
	0545	1.01		1342	1.02		0804	1.06		0844	0.30	
MO	1246	0.33	TU	1831	0.75	WE	1413	0.38	TH	1554	1.06	
	1920	1.15					2030	1.18		2204	0.69	
<b>5</b>	0134	0.57	<b>13</b>	0008	1.07	<b>21</b>	0302	0.37	<b>29</b>	0157	0.95	
	0636	1.00		0800	0.26		0858	1.05		0938	0.29	
TU	1322	0.36	WE	1458	1.06	TH	1454	0.45	FR	1640	1.08	
	1950	1.15		2009	0.76	○	2109	1.16	●	2251	0.64	
<b>6</b>	0209	0.54	<b>14</b>	0113	1.06	<b>22</b>	0346	0.35	<b>30</b>	0252	0.95	
	0729	1.00		0905	0.23		0950	1.04		1030	0.28	
WE	1357	0.39	TH	1600	1.11		FR	1535	0.52	SA	1718	1.10
	2022	1.15	○	2149	0.73		2145	1.13		2331	0.59	
<b>7</b>	0245	0.51	<b>15</b>	0224	1.06	<b>23</b>	0430	0.34	<b>31</b>	0348	0.96	
	0820	0.99		1006	0.21		1044	1.02		1115	0.29	
TH	1431	0.43	FR	1656	1.15		1615	0.59		1753	1.11	
○	2054	1.15		2302	0.66		2217	1.09				
<b>8</b>	0326	0.47	<b>16</b>	0331	1.07	<b>24</b>	0516	0.33				
	0913	0.99		1104	0.22		1140	1.00				
FR	1507	0.49	SA	1745	1.17		1655	0.66				
	2127	1.14					2245	1.05				

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

Geelong

## AUGUST – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0007	0.55		<b>9</b>	0516	0.29		<b>17</b>	0115	0.34		<b>25</b>	0657	0.31
	0448	0.97			1149	0.96			0701	1.07			1408	0.93
MO	1156	0.30	TU	1653	0.67		WE	1318	0.34		TH	1846	0.69	
	1824	1.12		2243	1.07			1923	1.14					
<b>2</b>	0041	0.51		<b>10</b>	0621	0.27		<b>18</b>	0156	0.31		<b>26</b>	0026	0.90
	0548	0.98			1312	0.96			0751	1.07			0806	0.31
TU	1233	0.33	WE	1756	0.71		TH	1357	0.40		FR	1514	0.95	
	1854	1.12		2341	1.04			2000	1.13			2123	0.64	
<b>3</b>	0114	0.48		<b>11</b>	0734	0.25		<b>19</b>	0235	0.29		<b>27</b>	0130	0.88
	0642	1.00			1430	0.99			0838	1.07			0914	0.30
WE	1306	0.36	TH	1939	0.71		FR	1434	0.45		SA	1602	0.99	
	1923	1.13					○	2033	1.11		●	2214	0.57	
<b>4</b>	0147	0.44		<b>12</b>	0100	1.01		<b>20</b>	0314	0.29		<b>28</b>	0245	0.89
	0730	1.01			0845	0.23			0924	1.05			1010	0.29
TH	1338	0.40	FR	1535	1.03		SA	1510	0.50		SU	1642	1.02	
	1952	1.13	○	2130	0.65			2104	1.09			2255	0.50	
<b>5</b>	0223	0.40		<b>13</b>	0219	1.01		<b>21</b>	0352	0.29		<b>29</b>	0404	0.91
	0815	1.02			0950	0.22			1010	1.02			1058	0.29
FR	1410	0.44	SA	1632	1.07		SU	1541	0.56		MO	1717	1.04	
●	2022	1.13		2245	0.56			2131	1.05			2333	0.44	
<b>6</b>	0300	0.37		<b>14</b>	0334	1.01		<b>22</b>	0432	0.30		<b>30</b>	0506	0.96
	0901	1.02			1052	0.23			1059	0.98			1139	0.31
SA	1445	0.49	SU	1721	1.10		MO	1610	0.61		TU	1750	1.06	
	2053	1.12		2343	0.47			2200	1.01					
<b>7</b>	0340	0.34		<b>15</b>	0457	1.03		<b>23</b>	0514	0.30		<b>31</b>	0010	0.40
	0949	1.01			1147	0.26			1151	0.95			0555	1.00
SU	1522	0.55	MO	1805	1.12		TU	1644	0.65		WE	1215	0.35	
	2125	1.11						2239	0.97			1820	1.07	
<b>8</b>	0424	0.31		<b>16</b>	0031	0.40		<b>24</b>	0600	0.31				
	1044	0.98			0606	1.05			1254	0.93				
MO	1604	0.61	TU	1235	0.30		WE	1735	0.68					
	2200	1.09		1845	1.14			2329	0.93					

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0045	0.36		<b>9</b>	0710	0.26		<b>17</b>	0200	0.24	<b>25</b>	0116	0.83
	0639	1.03			1354	0.93			0813	1.08		0844	0.36
TH	1248	0.38		FR	1939	0.60		SA	1412	0.45	SU	1506	0.91
	1849	1.08							1951	1.05		2125	0.49
<b>2</b>	0120	0.33		<b>10</b>	0106	0.95		<b>18</b>	0235	0.25	<b>26</b>	0300	0.86
	0721	1.05			0825	0.26			0854	1.05		0944	0.35
FR	1317	0.42		SA	1500	0.96		SU	1442	0.48	MO	1552	0.94
	1917	1.08		○	2114	0.52		○	2020	1.03	●	2212	0.40
<b>3</b>	0155	0.30		<b>11</b>	0230	0.96		<b>19</b>	0310	0.26	<b>27</b>	0406	0.93
	0802	1.05			0937	0.26			0934	1.01		1032	0.35
SA	1347	0.45		SU	1601	1.00		MO	1508	0.52	TU	1631	0.97
	1948	1.09			2226	0.43			2050	1.01		2254	0.34
<b>4</b>	0231	0.28		<b>12</b>	0356	0.98		<b>20</b>	0346	0.27	<b>28</b>	0457	1.00
	0846	1.04			1043	0.27			1015	0.97		1115	0.37
SU	1420	0.49		MO	1652	1.03		TU	1536	0.55	WE	1706	0.99
●	2020	1.08			2321	0.34			2125	0.97		2333	0.29
<b>5</b>	0312	0.26		<b>13</b>	0506	1.03		<b>21</b>	0425	0.29	<b>29</b>	0542	1.05
	0932	1.00			1137	0.30			1059	0.92		1154	0.40
MO	1458	0.54		TU	1736	1.05		WE	1612	0.58	TH	1738	1.01
	2055	1.07							2205	0.92			
<b>6</b>	0357	0.26		<b>14</b>	0008	0.29		<b>22</b>	0509	0.31	<b>30</b>	0012	0.25
	1025	0.96			0600	1.07			1150	0.89		0625	1.08
TU	1540	0.58		WE	1224	0.33		TH	1700	0.60		1228	0.43
	2133	1.04			1815	1.06			2254	0.88		1809	1.03
<b>7</b>	0449	0.26		<b>15</b>	0048	0.26		<b>23</b>	0602	0.34			
	1129	0.93			0647	1.09			1257	0.87			
WE	1631	0.61		TH	1303	0.37		FR	1808	0.61			
	2222	1.01			1849	1.06			2353	0.84			
<b>8</b>	0555	0.26		<b>16</b>	0125	0.24		<b>24</b>	0720	0.36			
	1242	0.91			0731	1.09			1409	0.88			
TH	1746	0.63		FR	1339	0.41		SA	2023	0.57			
	2336	0.97			1921	1.06							

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0050	0.23		<b>9</b>	0121	0.91		<b>17</b>	0154	0.23		<b>25</b>	0246	0.89
	0706	1.09			0806	0.34			0822	1.06			0906	0.46
SA	1258	0.46	SU	1419	0.93	MO	1414	0.48	TU	1443	0.90			
	1841	1.04		2054	0.39		1938	0.99	●	2125	0.31			
<b>2</b>	0127	0.22		<b>10</b>	0246	0.95		<b>18</b>	0228	0.24		<b>26</b>	0346	0.98
	0748	1.08			0925	0.34			0858	1.02			1000	0.46
SU	1327	0.48	MO	1523	0.95	TU	1441	0.50	WE	1530	0.92			
	1915	1.05	○	2200	0.30	●	2015	0.96		2213	0.25			
<b>3</b>	0206	0.22		<b>11</b>	0400	1.01		<b>19</b>	0303	0.26		<b>27</b>	0437	1.05
	0832	1.05			1030	0.35			0934	0.98			1047	0.46
MO	1401	0.51	TU	1616	0.97	WE	1513	0.52	TH	1610	0.95			
○	1953	1.04		2253	0.25		2053	0.93		2257	0.20			
<b>4</b>	0247	0.23		<b>12</b>	0458	1.07		<b>20</b>	0341	0.29		<b>28</b>	0524	1.10
	0919	1.00			1123	0.36			1014	0.94			1130	0.48
TU	1442	0.53	WE	1700	0.98	TH	1553	0.53	FR	1648	0.98			
	2033	1.02		2336	0.22		2136	0.88		2340	0.18			
<b>5</b>	0334	0.24		<b>13</b>	0545	1.11		<b>21</b>	0422	0.32		<b>29</b>	0609	1.12
	1011	0.96			1207	0.39			1058	0.91			1210	0.50
WE	1531	0.55	TH	1735	0.99	FR	1644	0.54	SA	1726	1.00			
	2120	0.98					2225	0.84						
<b>6</b>	0428	0.26		<b>14</b>	0015	0.21		<b>22</b>	0509	0.37		<b>30</b>	0022	0.18
	1109	0.93			0629	1.12			1148	0.88			0652	1.12
TH	1640	0.56	FR	1245	0.42	SA	1752	0.52	SU	1245	0.51			
	2225	0.94		1804	1.00		2330	0.81		1805	1.02			
<b>7</b>	0531	0.29		<b>15</b>	0048	0.22		<b>23</b>	0615	0.42		<b>31</b>	0104	0.18
	1211	0.91			0708	1.11			1247	0.87			0736	1.10
FR	1805	0.53	SA	1318	0.44	SU	1922	0.48	MO	1322	0.51			
	2353	0.91		1832	1.00					1848	1.02			
<b>8</b>	0645	0.32		<b>16</b>	0121	0.22		<b>24</b>	0116	0.82				
	1315	0.92			0745	1.09			0754	0.45				
SA	1932	0.47	SU	1346	0.46	MO	1348	0.88						
				1903	1.00		2032	0.39						

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 When daylight saving time is in force, add one hour to times

# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0146	0.19		<b>9</b>	0348	1.05		<b>17</b>	0229	0.27		<b>25</b>	0416	1.07
TU	0821	1.06		WE	1527	0.92		TH	1500	0.50		FR	1509	0.94
●	1934	1.01			2217	0.20			2028	0.89			2225	0.15
<b>2</b>	0230	0.22		<b>10</b>	0441	1.10		<b>18</b>	0305	0.30		<b>26</b>	0506	1.11
WE	0908	1.02		TH	1103	0.45		FR	0938	0.98		SA	1108	0.56
WE	1456	0.51		TH	1605	0.92		FR	1544	0.49		SA	1600	0.97
	2026	0.97			2300	0.19			2115	0.86			2315	0.14
<b>3</b>	0318	0.25		<b>11</b>	0527	1.13		<b>19</b>	0344	0.35		<b>27</b>	0554	1.13
TH	0957	0.99		TH	1146	0.46		SA	1016	0.96		SU	1159	0.55
TH	1555	0.50		FR	1631	0.94		SA	1633	0.47			1649	0.99
	2129	0.93			2336	0.20			2209	0.83				
<b>4</b>	0410	0.30		<b>12</b>	0608	1.13		<b>20</b>	0425	0.41		<b>28</b>	0002	0.14
FR	1047	0.97		SA	1225	0.47		SU	1058	0.94		MO	0640	1.12
FR	1659	0.46		SA	1701	0.96		SU	1730	0.43		MO	1246	0.53
	2246	0.90							2319	0.82			1740	1.00
<b>5</b>	0508	0.35		<b>13</b>	0010	0.21		<b>21</b>	0515	0.48		<b>29</b>	0048	0.16
SA	1140	0.95		SU	0645	1.12		MO	1141	0.92		TU	0725	1.11
SA	1806	0.42		SU	1258	0.48		MO	1835	0.38			1333	0.50
				SU	1740	0.97							1833	1.00
<b>6</b>	0008	0.89		<b>14</b>	0043	0.22		<b>22</b>	0052	0.85		<b>30</b>	0134	0.19
SU	0617	0.41		MO	0720	1.09		MO	0631	0.54		WE	0809	1.09
SU	1235	0.94		MO	1326	0.49		TU	1228	0.91		WE	1420	0.47
	1918	0.35		MO	1821	0.97		1942	0.31				1931	0.98
<b>7</b>	0129	0.92		<b>15</b>	0117	0.23		<b>23</b>	0217	0.92				
MO	0746	0.45		MO	0754	1.06		MO	0808	0.57				
MO	1334	0.93		TU	1352	0.49		WE	1320	0.91				
	2028	0.28		TU	1903	0.96		2041	0.24					
<b>8</b>	0245	0.98		<b>16</b>	0153	0.24		<b>24</b>	0321	1.00				
TU	0908	0.45		WE	0827	1.03		WE	0918	0.57				
TU	1433	0.92		WE	1423	0.50		TH	1415	0.93				
●	2128	0.23		●	1945	0.93		●	2134	0.19				

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# GEELONG

LAT 38° 09' S    LONG 144° 22' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0218	0.23		<b>9</b>	0421	1.09		<b>17</b>	0239	0.32		<b>25</b>	0449	1.08
	0853	1.06			1039	0.52			0906	1.02			1048	0.59
TH	1508	0.44		FR	1445	0.90		SA	1530	0.42		SU	1526	0.96
○	2037	0.95			2222	0.19			2106	0.87			2255	0.12
<b>2</b>	0304	0.28		<b>10</b>	0508	1.11		<b>18</b>	0315	0.37		<b>26</b>	0539	1.10
	0937	1.04			1126	0.51			0941	1.00			1147	0.54
FR	1559	0.40		SA	1529	0.92		SU	1614	0.38		MO	1627	0.98
	2145	0.92			2301	0.20			2201	0.86			2348	0.13
<b>3</b>	0352	0.35		<b>11</b>	0549	1.10		<b>19</b>	0355	0.43		<b>27</b>	0625	1.10
	1022	1.02			1206	0.51			1015	0.99			1239	0.49
SA	1653	0.35		SU	1615	0.93		MO	1701	0.34		TU	1729	0.98
	2254	0.91			2338	0.20			2302	0.87				
<b>4</b>	0445	0.42		<b>12</b>	0626	1.09		<b>20</b>	0440	0.50		<b>28</b>	0037	0.15
	1108	0.99			1241	0.50			1053	0.97			0709	1.10
SU	1751	0.31		MO	1703	0.94		TU	1755	0.29		WE	1328	0.43
													1836	0.98
<b>5</b>	0003	0.92		<b>13</b>	0015	0.21		<b>21</b>	0015	0.88		<b>29</b>	0123	0.19
	0548	0.49			0700	1.07			0535	0.58			0751	1.10
MO	1156	0.96		TU	1312	0.49		WE	1133	0.95		TH	1414	0.38
	1853	0.27			1750	0.93			1856	0.25			1943	0.98
<b>6</b>	0116	0.95		<b>14</b>	0052	0.23		<b>22</b>	0140	0.92		<b>30</b>	0207	0.24
	0716	0.54			0731	1.05			0648	0.63			0832	1.09
TU	1243	0.93		WE	1342	0.49		TH	1220	0.94		FR	1500	0.33
	1954	0.23			1837	0.92			2000	0.20		○	2045	0.97
<b>7</b>	0227	1.00		<b>15</b>	0128	0.25		<b>23</b>	0254	0.98		<b>31</b>	0250	0.31
	0840	0.55			0801	1.04			0821	0.65			0913	1.07
WE	1329	0.91		TH	1414	0.47		FR	1316	0.94		SA	1545	0.29
	2049	0.20			1925	0.90		●	2100	0.16			2144	0.96
<b>8</b>	0328	1.05		<b>16</b>	0203	0.28		<b>24</b>	0355	1.04				
	0945	0.54			0833	1.03			0942	0.63				
TH	1406	0.90		FR	1450	0.45		SA	1421	0.95				
○	2139	0.19		○	2015	0.88			2200	0.13				

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 When daylight saving time is in force, add one hour to times

# Lakes Entrance (Outer)

*Time Differences for Supplementary Locations  
– based on Lakes Entrance (Outer)*

Location	Time diff (earlier) later	Rise of tide	
		Springs metres	Neaps metres
Gabo Island	(0 43)	1.1	0.1
Eden (NSW)	(0 34)	1.8	0.2
Point Hicks	(0 27)	1.3	0.3
<b>Lakes Entrance (Outer)</b>	<b>0 00</b>	<b>1.1</b>	<b>0.7</b>

## *EXTRA TIDES FOR LAKES ENTRANCE 2022*

LAKES ENTRANCE							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
Mar	9	1818	0.69	Sep	18	0626	0.79
		1901	0.69			0752	0.77
	10	1849	0.73		19	0426	0.81
		2000	0.72			0531	0.81
Apr	11	1756	0.76	Oct	16	0547	0.79
		1902	0.77			0612	0.79
	8	1841	0.81		17	0603	0.81
		1910	0.81			0716	0.80
Sep	17	0547	0.76	Nov	15	0534	0.81
		0700	0.75			0634	0.80

# Lakes Entrance (Outer) Datums

Latitude 37°53' S. Longitude 147°58' E (WGS84)

AHD metres	Predominantly diurnal tides	Chart Datum metres	Lakes Ent
0.81	Highest recorded tide 02/07/2008 (2008 - 2019)	1.57	
0.70	Highest Astronomical Tide (HAT)	1.46	
0.50	Mean Higher High Water (MHHW)	1.26	
0.06	Mean Lower High Water (MLHW)	0.82	
0.003	Mean Higher Low Water (MHLW)	0.76	
<b>0.000</b>	<b>Australian Height Datum</b>	<b>0.757</b>	
-0.43	Mean Lower Low Water (MLLW)	0.32	
<b>-0.757</b>	<b>Chart &amp; Prediction Datum</b>	<b>0.000</b>	
	<b>Lowest Astronomical Tide (LAT)</b>		
-1.11	Lowest recorded tide 08/02/2017 (2008 – 2019)	-0.36	

Information supplied by Commonwealth of Australia, Bureau of Meteorology & Australian Hydrographic Office

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S LONG 147° 58' E TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0703	1.24	<b>9</b>	0213	0.92	<b>17</b>	0059	0.57	<b>25</b>	0146	0.97
	1347	0.18		0741	0.66		0819	1.17		0751	0.62
SA	1942	0.91	SU	1328	0.95	MO	1455	0.30	TU	1255	0.93
				2010	0.45		2035	0.85	○	2007	0.44
<b>2</b>	0046	0.46	<b>10</b>	0306	0.94	<b>18</b>	0135	0.57	<b>26</b>	0241	1.01
	0758	1.30		0853	0.66		0857	1.18		0900	0.57
SU	1440	0.10	MO	1427	0.86	TU	1527	0.28	WE	1432	0.85
	2035	0.91	○	2056	0.50	○	2113	0.85		2057	0.47
<b>3</b>	0139	0.49	<b>11</b>	0401	0.97	<b>19</b>	0212	0.57	<b>27</b>	0345	1.06
	0850	1.33		1026	0.63		0932	1.18		1022	0.49
MO	1530	0.06	TU	1556	0.80	WE	1600	0.27	TH	1631	0.82
●	2130	0.90		2143	0.54		2153	0.86		2150	0.49
<b>4</b>	0237	0.52	<b>12</b>	0455	1.01	<b>20</b>	0251	0.58	<b>28</b>	0456	1.12
	0942	1.34		1142	0.57		1002	1.17		1148	0.37
TU	1618	0.06	WE	1711	0.78		1637	0.28	FR	1745	0.84
	2227	0.89		2228	0.57		2236	0.87		2246	0.49
<b>5</b>	0339	0.55	<b>13</b>	0543	1.04	<b>21</b>	0334	0.60	<b>29</b>	0559	1.19
	1031	1.31		1236	0.50		1025	1.14		1253	0.24
WE	1706	0.11	TH	1804	0.79		1715	0.29	SA	1843	0.87
	2325	0.89		2308	0.58		2323	0.88		2342	0.48
<b>6</b>	0441	0.57	<b>14</b>	0625	1.08	<b>22</b>	0430	0.62	<b>30</b>	0655	1.25
	1119	1.25		1318	0.43		1045	1.11		1345	0.13
TH	1752	0.19	FR	1847	0.80		SA 1754	0.32	SU	1934	0.90
				2346	0.58						
<b>7</b>	0023	0.89	<b>15</b>	0703	1.11	<b>23</b>	0010	0.90	<b>31</b>	0037	0.47
	0541	0.60		1353	0.37		0539	0.64		0747	1.30
FR	1204	1.16	SU	1924	0.82		1115	1.07	MO	1431	0.07
	1838	0.28					1836	0.35		2023	0.92
<b>8</b>	0118	0.90	<b>16</b>	0022	0.58	<b>24</b>	0058	0.93			
	0640	0.63		0742	1.14		0646	0.64			
SA	1245	1.06	SU	1424	0.33		1158	1.01			
	1924	0.37		2000	0.84		1920	0.40			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S LONG 147° 58' E TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY - 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0132	0.45		<b>9</b>	0253	0.96		<b>17</b>	0206	0.50		<b>25</b>	0330	1.07
	0838	1.32			0955	0.61			0904	1.16			1027	0.41
TU	1515	0.05		WE	1526	0.75		TH	1530	0.24		FR	1644	0.81
●	2114	0.92			2050	0.63		○	2126	0.92			2131	0.59
<b>2</b>	0228	0.45		<b>10</b>	0405	0.98		<b>18</b>	0247	0.49		<b>26</b>	0447	1.12
	0927	1.30			1128	0.56			0930	1.15			1152	0.30
WE	1557	0.08		TH	1653	0.75		FR	1603	0.25		SA	1745	0.85
	2204	0.93			2145	0.64			2206	0.94			2235	0.57
<b>3</b>	0325	0.46		<b>11</b>	0507	1.02		<b>19</b>	0334	0.50		<b>27</b>	0548	1.18
	1014	1.25			1227	0.49			0953	1.12			1247	0.21
TH	1637	0.14		FR	1749	0.78		SA	1639	0.29		SU	1836	0.89
	2255	0.93			2237	0.64			2247	0.97			2337	0.52
<b>4</b>	0422	0.49		<b>12</b>	0556	1.06		<b>20</b>	0430	0.51		<b>28</b>	0642	1.23
	1056	1.17			1303	0.42			1024	1.08			1333	0.14
FR	1717	0.23		SA	1830	0.81		SU	1716	0.34		MO	1923	0.93
	2344	0.93			2325	0.61			2330	0.99				
<b>5</b>	0519	0.53		<b>13</b>	0639	1.10		<b>21</b>	0535	0.53				
	1134	1.08			1330	0.36			1104	1.01				
SA	1758	0.33		SU	1904	0.84		MO	1757	0.40				
<b>6</b>	0030	0.93		<b>14</b>	0008	0.58		<b>22</b>	0015	1.01				
	0617	0.57			0718	1.13			0639	0.53				
SU	1207	0.97		MO	1358	0.31		TU	1157	0.93				
	1838	0.43			1938	0.86			1842	0.48				
<b>7</b>	0115	0.93		<b>15</b>	0048	0.54		<b>23</b>	0103	1.03				
	0717	0.61			0757	1.16			0743	0.51				
MO	1243	0.88		TU	1426	0.27		WE	1315	0.84				
	1918	0.52			2013	0.88			1932	0.54				
<b>8</b>	0159	0.94		<b>16</b>	0128	0.51		<b>24</b>	0205	1.04				
	0825	0.63			0832	1.17			0853	0.48				
TU	1344	0.80		WE	1457	0.24		TH	1512	0.79				
●	2001	0.59			2048	0.90		○	2030	0.58				

Lakes Ent

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When daylight saving time is in force, add one hour to times

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MARCH – 2022**

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0034	0.46	<b>9</b>	0030	0.99	<b>17</b>	0116	0.49	<b>25</b>	0142	1.10
	0732	1.25		0753	0.58		0754	1.13		0852	0.39
TU	1413	0.11	WE	1329	0.77	TH	1419	0.26	FR	1531	0.82
	2009	0.96	*	1653	0.68		2023	0.98	●	2013	0.70
<b>2</b>	0128	0.42	<b>10</b>	0119	0.98	<b>18</b>	0158	0.45	<b>26</b>	0318	1.10
	0821	1.25		0905	0.58		0822	1.12		1033	0.35
WE	1450	0.12	TH	1500	0.75	FR	1451	0.27	SA	1645	0.86
	2055	0.97	*●	1717	0.72		2059	1.02		2120	0.69
<b>3</b>	0220	0.40	<b>11</b>	0236	0.98	<b>19</b>	0243	0.43	<b>27</b>	0433	1.14
	0907	1.21		1047	0.55		0853	1.10		1139	0.28
TH	1527	0.17	FR	1643	0.77	SA	1524	0.30	SU	1738	0.91
●	2140	0.98	*	2104	0.73		2137	1.06		2230	0.63
<b>4</b>	0313	0.40	<b>12</b>	0417	1.00	<b>20</b>	0333	0.42	<b>28</b>	0532	1.17
	0951	1.14		1147	0.49		0933	1.06		1228	0.23
FR	1602	0.25	SA	1738	0.81	SU	1558	0.35	MO	1823	0.95
	2223	0.99		2208	0.71		2216	1.09		2337	0.56
<b>5</b>	0406	0.43	<b>13</b>	0521	1.04	<b>21</b>	0430	0.41	<b>29</b>	0623	1.19
	1030	1.06		1221	0.43		1023	1.01		1308	0.21
SA	1638	0.34	SU	1812	0.84	MO	1635	0.43	TU	1908	0.99
	2301	0.99		2304	0.66		2258	1.12			
<b>6</b>	0500	0.48	<b>14</b>	0607	1.08	<b>22</b>	0531	0.41	<b>30</b>	0033	0.48
	1105	0.97		1249	0.37		1120	0.95		0712	1.18
SU	1714	0.44	MO	1843	0.88	TU	1718	0.52	WE	1343	0.22
	2333	0.99		2352	0.60		2341	1.12		1952	1.03
<b>7</b>	0556	0.52	<b>15</b>	0646	1.11	<b>23</b>	0633	0.42	<b>31</b>	0124	0.43
	1139	0.89		1317	0.31		1228	0.88		0758	1.14
MO	1747	0.54	TU	1915	0.91	WE	1811	0.60	TH	1415	0.26
	2359	0.99								2034	1.05
<b>8</b>	0652	0.56	<b>16</b>	0035	0.54	<b>24</b>	0030	1.11			
	1224	0.82		0722	1.13		0737	0.41			
TU	1821	0.62	WE	1347	0.28	TH	1355	0.82			
				1948	0.94		1910	0.67			

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 When daylight saving time is in force, add one hour to times

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**APRIL - 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0214	0.40		<b>9</b>	0134	1.03		<b>17</b>	0235	0.39		<b>25</b>	0410	1.16
	0842	1.08			0921	0.54			0830	1.06			1110	0.33
FR	1448	0.33		SA	1840	0.84		SU	1436	0.41		MO	1718	0.98
●	2115	1.07		○	2024	0.81		○	2110	1.19			2228	0.68
<b>2</b>	0303	0.40		<b>10</b>	0302	1.03		<b>18</b>	0329	0.35		<b>26</b>	0507	1.15
	0923	1.02			1032	0.50			0927	1.02			1154	0.33
SA	1520	0.41		SU	1717	0.86		MO	1514	0.48		TU	1802	1.03
	2148	1.08			2131	0.78			2152	1.23			2337	0.61
<b>3</b>	0353	0.42		<b>11</b>	0428	1.05		<b>19</b>	0426	0.34		<b>27</b>	0558	1.13
	1001	0.96			1117	0.45			1028	0.97			1229	0.35
SU	1550	0.49		MO	1745	0.90		TU	1557	0.56		WE	1847	1.07
	2215	1.08			2235	0.72			2237	1.25				
<b>4</b>	0444	0.46		<b>12</b>	0519	1.08		<b>20</b>	0526	0.33		<b>28</b>	0032	0.53
	1040	0.90			1153	0.40			1132	0.93			0645	1.09
MO	1615	0.58		TU	1814	0.94		WE	1652	0.65			1300	0.39
	2235	1.09			2330	0.65			2325	1.24			1930	1.10
<b>5</b>	0534	0.50		<b>13</b>	0556	1.10		<b>21</b>	0627	0.34		<b>29</b>	0121	0.48
	1122	0.85			1227	0.35			1245	0.89			0730	1.04
TU	1528	0.65		WE	1845	0.99		TH	1755	0.72		FR	1330	0.44
	2300	1.08											2011	1.13
<b>6</b>	0626	0.53		<b>14</b>	0017	0.57		<b>22</b>	0021	1.21		<b>30</b>	0208	0.45
	1212	0.82			0625	1.11			0731	0.35			0812	0.99
WE	1539	0.70		TH	1300	0.33		FR	1408	0.88		SA	1359	0.50
	2336	1.07			1917	1.04			1859	0.76			2045	1.15
<b>7</b>	0717	0.55		<b>15</b>	0101	0.50		<b>23</b>	0135	1.18				
	1312	0.80			0658	1.10			0851	0.35				
TH	1600	0.74		FR	1331	0.33		SA	1530	0.90				
					1952	1.09		○	2002	0.77				
<b>8</b>	0026	1.05		<b>16</b>	0147	0.44		<b>24</b>	0300	1.16				
	0814	0.56			0738	1.09			1015	0.34				
FR	1430	0.80		SA	1403	0.36		SU	1631	0.94				
*	1623	0.78			2030	1.14			2111	0.74				

Lakes Ent

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 When daylight saving time is in force, add one hour to times

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S LONG 147° 58' E TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0254	0.44		<b>9</b>	0155	1.09		<b>17</b>	0321	0.31		<b>25</b>	0436	1.11
SU	0852	0.94		MO	0915	0.51		TU	0921	1.00		WE	1103	0.47
●	1424	0.57		MO	1617	0.93		TU	1437	0.60		WE	1735	1.09
	2114	1.16		○	2047	0.84		2137	1.35			2335	0.66	
<b>2</b>	0339	0.45		<b>10</b>	0259	1.09		<b>18</b>	0418	0.28		<b>26</b>	0530	1.06
	0932	0.91		TU	1005	0.48		WE	1024	0.97		TH	1137	0.50
MO	1433	0.64		TU	1652	0.97		WE	1532	0.67			1822	1.13
	2138	1.18			2154	0.79		2227	1.36					
<b>3</b>	0424	0.47		<b>11</b>	0353	1.09		<b>19</b>	0516	0.28		<b>27</b>	0030	0.59
	1015	0.89			1048	0.44			1131	0.95			0617	1.01
TU	1417	0.69		WE	1723	1.02		TH	1639	0.74		FR	1208	0.55
	2205	1.18			2259	0.71		2319	1.34			1905	1.17	
<b>4</b>	0510	0.49		<b>12</b>	0441	1.10		<b>20</b>	0616	0.30		<b>28</b>	0116	0.54
	1101	0.87			1126	0.42			1243	0.95			0702	0.97
WE	1432	0.73		TH	1756	1.08		FR	1745	0.78		SA	1238	0.59
	2239	1.17			2354	0.62						1943	1.19	
<b>5</b>	0556	0.52		<b>13</b>	0529	1.10		<b>21</b>	0018	1.30		<b>29</b>	0200	0.50
	1151	0.86			1201	0.41			0718	0.33			0744	0.94
TH	1457	0.77		FR	1833	1.14		SA	1356	0.96		SU	1302	0.64
	2316	1.15						1847	0.80			2015	1.22	
<b>6</b>	0643	0.54		<b>14</b>	0045	0.52		<b>22</b>	0124	1.25		<b>30</b>	0242	0.48
	1247	0.86			0622	1.08			0827	0.36			0823	0.92
FR	1525	0.81		SA	1236	0.43		SU	1501	0.99		MO	1318	0.68
					1915	1.20			1949	0.79		●	2045	1.23
<b>7</b>	0000	1.13		<b>15</b>	0134	0.43		<b>23</b>	0233	1.20		<b>31</b>	0321	0.47
	0730	0.55			0719	1.06			0933	0.40			0903	0.91
SA	1352	0.87		SU	1313	0.46		MO	1557	1.02		TU	1322	0.71
	1602	0.85			2001	1.27		○	2058	0.77			2115	1.24
<b>8</b>	0053	1.11		<b>16</b>	0226	0.36		<b>24</b>	0338	1.16				
	0822	0.54			0820	1.03			1024	0.43				
SU	1512	0.89		MO	1352	0.52		TU	1646	1.05				
	1942	0.87		○	2048	1.32			2222	0.73				

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# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0401	0.48		<b>9</b>	0247	1.10		<b>17</b>	0502	0.24	<b>25</b>	0024	0.62
WE	0946	0.91		TH	0950	0.49		FR	1118	0.99	SA	0557	0.95
	1340	0.74			1616	1.09			1627	0.73		1119	0.65
	2149	1.25			2224	0.74			2311	1.40		1836	1.20
<b>2</b>	0442	0.50		<b>10</b>	0355	1.08		<b>18</b>	0557	0.28	<b>26</b>	0110	0.56
TH	1032	0.91			1030	0.48			1223	1.00	SU	0641	0.93
	1409	0.78		FR	1702	1.15		SA	1730	0.75		1152	0.68
	2225	1.24			2330	0.63						1914	1.22
<b>3</b>	0524	0.52		<b>11</b>	0506	1.06		<b>19</b>	0005	1.34	<b>27</b>	0149	0.52
FR	1122	0.91			1111	0.49			0652	0.34	MO	0720	0.93
	1445	0.81		SA	1753	1.22		SU	1325	1.01		1221	0.70
	2300	1.22							1831	0.77		1947	1.25
<b>4</b>	0607	0.53		<b>12</b>	0029	0.52		<b>20</b>	0101	1.27	<b>28</b>	0226	0.49
SA	1215	0.92			0613	1.05			0745	0.41	TU	0758	0.93
	1532	0.85		SU	1152	0.51		MO	1422	1.04		1248	0.71
	2336	1.20			1847	1.29			1932	0.78		2021	1.27
<b>5</b>	0651	0.54		<b>13</b>	0123	0.41		<b>21</b>	0200	1.18	<b>29</b>	0301	0.47
SU	1310	0.93			0713	1.04			0836	0.48	WE	0836	0.93
	1645	0.88		MO	1236	0.55		TU	1516	1.06		1317	0.73
					1941	1.35		●	2042	0.77	●	2057	1.28
<b>6</b>	0013	1.17		<b>14</b>	0217	0.32		<b>22</b>	0301	1.10	<b>30</b>	0336	0.47
MO	0737	0.53			0812	1.02			0924	0.54	TH	0917	0.94
	1404	0.95		TU	1323	0.60		WE	1610	1.09		1351	0.74
	1901	0.88		○	2032	1.40			2212	0.75		2132	1.28
<b>7</b>	0057	1.15		<b>15</b>	0312	0.26		<b>23</b>	0405	1.03			
	0823	0.52			0911	1.01			1005	0.58			
TU	1453	0.99		WE	1417	0.65			1702	1.13			
	2008	0.86			2125	1.43			2329	0.69			
<b>8</b>	0148	1.12		<b>16</b>	0407	0.23		<b>24</b>	0505	0.98			
WE	0908	0.50			1014	0.99			1044	0.62			
	1535	1.04		TH	1520	0.70			1752	1.16			
●	2114	0.81			2217	1.43							

Lakes Ent

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# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0413	0.47		<b>9</b>	0342	1.01		<b>17</b>	0529	0.29		<b>25</b>	0103	0.55
	1000	0.94			0948	0.55			1154	1.02			0622	0.90
FR	1428	0.76		SA	1629	1.19		SU	1712	0.67		MO	1122	0.71
	2207	1.27			2314	0.60			2344	1.30			1846	1.21
<b>2</b>	0451	0.48		<b>10</b>	0506	1.00		<b>18</b>	0616	0.37		<b>26</b>	0137	0.50
	1048	0.94			1035	0.56			1249	1.03			0659	0.92
SA	1509	0.78		SU	1731	1.26		MO	1812	0.70		TU	1201	0.70
	2237	1.25											1924	1.24
<b>3</b>	0531	0.50		<b>11</b>	0019	0.47		<b>19</b>	0031	1.19		<b>27</b>	0207	0.46
	1138	0.95			0611	1.00			0702	0.46			0734	0.93
SU	1557	0.81		MO	1124	0.57		TU	1342	1.05		WE	1240	0.68
	2300	1.22			1831	1.33			1914	0.73			2000	1.26
<b>4</b>	0613	0.51		<b>12</b>	0116	0.35		<b>20</b>	0122	1.08		<b>28</b>	0237	0.43
	1228	0.97			0707	1.01			0747	0.55			0810	0.94
MO	1706	0.83		TU	1215	0.59		WE	1433	1.07		TH	1318	0.67
	2327	1.19			1927	1.39			2025	0.75			2036	1.27
<b>5</b>	0655	0.52		<b>13</b>	0210	0.26		<b>21</b>	0225	0.99		<b>29</b>	0308	0.42
	1315	1.00			0802	1.01			0831	0.62			0848	0.95
TU	1830	0.84		WE	1309	0.60		TH	1530	1.09		FR	1355	0.67
					2019	1.44		○	2159	0.73		●	2111	1.27
<b>6</b>	0004	1.15		<b>14</b>	0301	0.20		<b>22</b>	0341	0.92		<b>30</b>	0342	0.42
	0738	0.52			0858	1.01			0915	0.67			0930	0.95
WE	1359	1.04		TH	1407	0.61		FR	1629	1.12		SA	1432	0.68
	1939	0.83		○	2112	1.45			2323	0.67			2140	1.25
<b>7</b>	0056	1.10		<b>15</b>	0351	0.19		<b>23</b>	0449	0.89		<b>31</b>	0417	0.43
	0821	0.53			0956	1.01			0959	0.70			1014	0.96
TH	1443	1.08		FR	1508	0.63		SA	1722	1.15		SU	1511	0.69
	2046	0.79			2203	1.44							2200	1.23
<b>8</b>	0205	1.05		<b>16</b>	0441	0.22		<b>24</b>	0021	0.61				
	0904	0.54			1056	1.01			0541	0.89				
FR	1531	1.13		SA	1611	0.65		SU	1042	0.71				
	2159	0.71			2254	1.38			1808	1.18				

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# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**AUGUST – 2022**

	Time	m		Time	m		Time	m		Time	m	Lakes Ent			
<b>1</b>	0454	0.45		<b>9</b>	0018	0.39		<b>17</b>	0619	0.53		<b>25</b>	0139	0.42	
	1100	0.98			0608	0.96			1255	1.04			0710	0.92	
MO	1557	0.71		TU	1108	0.60		WE	1854	0.66		TH	1230	0.62	
	2216	1.19			1821	1.32							1937	1.22	
<b>2</b>	0531	0.47		<b>10</b>	0112	0.27		<b>18</b>	0045	0.95		<b>26</b>	0207	0.38	
	1145	1.00			0700	0.99			0701	0.62			0745	0.94	
TU	1700	0.74		WE	1205	0.57		TH	1339	1.04		FR	1310	0.59	
	2245	1.15			1915	1.38			2002	0.69			2012	1.22	
<b>3</b>	0612	0.50		<b>11</b>	0200	0.20		<b>19</b>	0154	0.87		<b>27</b>	0236	0.37	
	1228	1.03			0750	1.00			0745	0.69			0821	0.95	
WE	1814	0.75		TH	1301	0.54		FR	1429	1.05		SA	1348	0.57	
	2327	1.09			2005	1.40		○	2136	0.68		●	2042	1.21	
<b>4</b>	0654	0.54		<b>12</b>	0245	0.17		<b>20</b>	0322	0.83		<b>28</b>	0307	0.37	
	1312	1.06			0842	1.01			0831	0.73			0859	0.97	
TH	1922	0.74		FR	1359	0.52		SA	1541	1.06		SU	1427	0.56	
				○	2055	1.40			2321	0.63			2102	1.19	
<b>5</b>	0024	1.02		<b>13</b>	0329	0.18		<b>21</b>	0436	0.83		<b>29</b>	0339	0.39	
	0739	0.57			0935	1.01			0922	0.74			0939	0.99	
FR	1359	1.09		SA	1456	0.52		SU	1649	1.09		MO	1508	0.57	
○	2030	0.70			2144	1.35							2118	1.15	
<b>6</b>	0158	0.94		<b>14</b>	0412	0.24		<b>22</b>	0015	0.57		<b>30</b>	0412	0.42	
	0827	0.60			1030	1.02			0526	0.85			1019	1.01	
SA	1457	1.13		SU	1554	0.53		MO	1014	0.73		TU	1559	0.59	
	2145	0.62			2230	1.27			1740	1.13			2146	1.11	
<b>7</b>	0355	0.91		<b>15</b>	0455	0.32		<b>23</b>	0048	0.51		<b>31</b>	0446	0.46	
	0917	0.62			1121	1.03			0603	0.88			1100	1.04	
SU	1612	1.18		MO	1653	0.57		TU	1102	0.70		WE	1700	0.60	
	2311	0.51			2315	1.17			1822	1.17			2227	1.06	
<b>8</b>	0511	0.93		<b>16</b>	0537	0.43		<b>24</b>	0114	0.46					
	1012	0.61			1210	1.04			0636	0.91					
MO	1723	1.25		TU	1753	0.61			WE	1148	0.66				
					2358	1.06				1900	1.20				

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# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**SEPTEMBER – 2022**

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0525	0.52		<b>9</b>	0142	0.19		<b>17</b>	0129	0.80	<b>25</b>	0157	0.35
TH	1143	1.06		FR	0734	1.00		0417	0.74		0752	0.98	
	1807	0.61		1257	0.46		SA	1303	1.02	SU	1341	0.48	
	2320	0.98		1948	1.30	*	2049	0.61		2003	1.12		
<b>2</b>	0610	0.58		<b>10</b>	0221	0.19		<b>18</b>	0301	0.79	<b>26</b>	0226	0.36
	1226	1.08		0823	1.01		0444	0.77		0827	1.01		
FR	1911	0.60		SA	1351	0.43		1413	1.01	MO	1422	0.46	
			○	2035	1.27	*	2249	0.58	●	2026	1.09		
<b>3</b>	0039	0.90		<b>11</b>	0259	0.23		<b>19</b>	0645	0.81	<b>27</b>	0254	0.39
	0702	0.63		0913	1.03		0849	0.77		0904	1.04		
SA	1316	1.09		SU	1445	0.42		1601	1.03	TU	1508	0.45	
	2019	0.57		2120	1.20	*	2338	0.53		2100	1.06		
<b>4</b>	0233	0.85		<b>12</b>	0336	0.31		<b>20</b>	0509	0.84	<b>28</b>	0323	0.44
	0758	0.67		1000	1.04		0948	0.74		0945	1.07		
SU	1432	1.10		MO	1541	0.44		TU	1708	1.07	WE	1600	0.45
●	2142	0.51		2204	1.11					2145	1.01		
<b>5</b>	0407	0.86		<b>13</b>	0415	0.40		<b>21</b>	0008	0.48	<b>29</b>	0355	0.50
	0857	0.67		1044	1.04		0541	0.87		1026	1.10		
MO	1606	1.15		TU	1637	0.47		WE	1044	0.69	TH	1700	0.45
	2315	0.41		2245	1.01		1754	1.11		2242	0.95		
<b>6</b>	0510	0.90		<b>14</b>	0453	0.51		<b>22</b>	0034	0.43	<b>30</b>	0436	0.58
	0959	0.64		1122	1.04		0613	0.90		1109	1.11		
TU	1715	1.21		WE	1734	0.52		TH	1134	0.63	FR	1800	0.45
				2328	0.92		1833	1.13		2349	0.89		
<b>7</b>	0014	0.31		<b>15</b>	0532	0.61		<b>23</b>	0100	0.39			
	0600	0.94		1153	1.04		0645	0.93					
WE	1100	0.59		TH	1831	0.57		FR	1218	0.57			
	1810	1.27						1909	1.15				
<b>8</b>	0100	0.23		<b>16</b>	0019	0.85		<b>24</b>	0128	0.36			
	0647	0.98		0614	0.69		0718	0.95					
TH	1200	0.52		1221	1.03		SA	1300	0.52				
	1900	1.30		1933	0.60		1940	1.14					

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 Datum is Lowest Astronomical Tide    \* Extra Tides p26

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER - 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0533	0.65		<b>9</b>	0146	0.28		<b>17</b>	0226	0.79		<b>25</b>	0133	0.39
	1156	1.11			0802	1.04			0351	0.78			0754	1.08
SA	1902	0.45		SU	1349	0.37		MO	1318	1.00		TU	1416	0.37
					2015	1.10	*	2106	0.54			2010	1.00	
<b>2</b>	0115	0.84		<b>10</b>	0219	0.34		<b>18</b>	0612	0.83		<b>26</b>	0201	0.43
	0639	0.70			0847	1.06			0815	0.79			0836	1.12
SU	1253	1.10		MO	1440	0.36		TU	1441	1.00		WE	1505	0.33
	2011	0.44		(○)	2058	1.03		(○)	2228	0.51			2059	0.97
<b>3</b>	0252	0.83		<b>11</b>	0252	0.42		<b>19</b>	0444	0.85		<b>27</b>	0233	0.49
	0743	0.71			0929	1.07			0917	0.75			0921	1.15
MO	1423	1.09		TU	1531	0.37		WE	1618	1.02		TH	1558	0.31
(○)	2146	0.40			2140	0.96			2308	0.46			2154	0.93
<b>4</b>	0408	0.87		<b>12</b>	0325	0.51		<b>20</b>	0513	0.89		<b>28</b>	0312	0.56
	0845	0.69			1002	1.07			1020	0.69			1008	1.17
TU	1554	1.12		WE	1623	0.40		TH	1715	1.04		FR	1654	0.30
	2305	0.33			2221	0.89			2340	0.42			2255	0.89
<b>5</b>	0500	0.91		<b>13</b>	0356	0.60		<b>21</b>	0544	0.92		<b>29</b>	0405	0.64
	0952	0.64			1030	1.07			1116	0.63			1055	1.18
WE	1700	1.16		TH	1714	0.44		FR	1755	1.05		SA	1752	0.31
	2355	0.27			2307	0.84								
<b>6</b>	0545	0.95		<b>14</b>	0256	0.67		<b>22</b>	0010	0.38		<b>30</b>	0004	0.86
	1059	0.56			1056	1.06			0614	0.95			0519	0.70
TH	1753	1.18		FR	1805	0.49		SA	1205	0.56		SU	1147	1.16
					2359	0.80			1829	1.05			1853	0.32
<b>7</b>	0036	0.24		<b>15</b>	0306	0.71		<b>23</b>	0038	0.36		<b>31</b>	0126	0.85
	0630	0.99			1131	1.05			0645	0.99			0629	0.72
FR	1200	0.48		SA	1859	0.52		SU	1249	0.49		MO	1249	1.13
	1843	1.18							1857	1.04			2000	0.33
<b>8</b>	0113	0.24		<b>16</b>	0101	0.78		<b>24</b>	0106	0.37				
	0715	1.02			0327	0.75			0716	1.03				
SA	1256	0.41		SU	1217	1.02		MO	1332	0.42				
	1930	1.15	*		1955	0.54			1929	1.03				

Lakes Ent

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 Datum is Lowest Astronomical Tide    \* Extra Tides p26  
 When daylight saving time is in force, add one hour to times

# LAKES ENTRANCE (OUTER)

LAT 37° 53' S LONG 147° 58' E TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**NOVEMBER – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0247	0.86		<b>9</b>	0200	0.53		<b>17</b>	0353	0.87		<b>25</b>	0201	0.53
TU	0732	0.72		WE	0858	1.11		TH	0835	0.77		FR	0909	1.24
●	1408	1.11		WE	1523	0.33		TH	1437	0.99		FR	1551	0.19
	2125	0.33		2118	0.86			2147	0.45		2151		0.90	
<b>2</b>	0349	0.90		<b>10</b>	0217	0.59		<b>18</b>	0430	0.90		<b>26</b>	0252	0.59
WE	0836	0.69		TH	0929	1.12		FR	0940	0.72		SA	0959	1.26
WE	1528	1.10		TH	1608	0.35		FR	1545	0.98		SA	1645	0.18
	2234	0.31		2200	0.83			2230	0.42		2253		0.88	
<b>3</b>	0438	0.94		<b>11</b>	0158	0.64		<b>19</b>	0500	0.94		<b>27</b>	0359	0.65
TH	0945	0.63		FR	0959	1.12		SA	1048	0.65		SU	1050	1.25
TH	1633	1.09		FR	1652	0.38		SA	1644	0.97			1741	0.19
	2321	0.31		2244	0.81			2307	0.40					
<b>4</b>	0523	0.98		<b>12</b>	0207	0.68		<b>20</b>	0529	0.99		<b>28</b>	0001	0.87
FR	1100	0.55		SA	1032	1.10		SU	1145	0.57		MO	0512	0.68
FR	1730	1.07		SA	1737	0.42		SU	1733	0.96		MO	1144	1.23
	2359	0.32		2332	0.80			2340	0.39				1838	0.22
<b>5</b>	0609	1.02		<b>13</b>	0231	0.72		<b>21</b>	0602	1.04		<b>29</b>	0112	0.88
SA	1204	0.47		SU	1110	1.08		MO	1234	0.47		SA	0616	0.69
SA	1822	1.04		SU	1822	0.45		MO	1821	0.95		TU	1241	1.18
													1937	0.26
<b>6</b>	0031	0.35		<b>14</b>	0030	0.80		<b>22</b>	0012	0.40		<b>30</b>	0219	0.90
SU	0656	1.05		MO	0301	0.76		MO	0643	1.10		WE	0718	0.68
SU	1300	0.41		MO	1152	1.06		TU	1321	0.38		WE	1344	1.12
	1911	0.99		MO	1910	0.47		1911	0.94				2040	0.30
<b>7</b>	0102	0.40		<b>15</b>	0136	0.81		<b>23</b>	0045	0.43				
MO	0742	1.08		MO	0344	0.79		MO	0730	1.15				
MO	1349	0.36		TU	1239	1.03		WE	1409	0.30				
	1957	0.94		*	2000	0.48		2001	0.93					
<b>8</b>	0131	0.46		<b>16</b>	0256	0.83		<b>24</b>	0120	0.47				
TU	0823	1.10		WE	0735	0.79		WE	0819	1.20				
○	1437	0.33		WE	1334	1.01		TH	1459	0.23				
	2038	0.90		○	2054	0.47		●	2055	0.92				

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 Datum is Lowest Astronomical Tide \* Extra Tides p26  
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# LAKES ENTRANCE (OUTER)

LAT 37° 53' S    LONG 147° 58' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER - 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0317	0.94		<b>9</b>	0130	0.62		<b>17</b>	0320	0.92		<b>25</b>	0246	0.55
	0823	0.66			0908	1.16			0856	0.73			0950	1.33
TH	1450	1.06		FR	1550	0.32		SA	1411	0.94		SU	1633	0.08
●	2141	0.34			2133	0.82			2126	0.43			2241	0.89
<b>2</b>	0409	0.97		<b>10</b>	0140	0.65		<b>18</b>	0400	0.97		<b>26</b>	0352	0.58
	0938	0.62			0942	1.16			1007	0.66			1042	1.32
FR	1600	1.00		SA	1629	0.33		SU	1529	0.90		MO	1724	0.11
	2230	0.38			2215	0.82			2207	0.43			2343	0.90
<b>3</b>	0459	1.02		<b>11</b>	0202	0.68		<b>19</b>	0441	1.03		<b>27</b>	0458	0.59
	1103	0.56			1017	1.15			1118	0.57			1132	1.27
SA	1706	0.94		SU	1708	0.36		MO	1659	0.88		TU	1815	0.16
	2309	0.41			2301	0.82			2248	0.43				
<b>4</b>	0548	1.06		<b>12</b>	0237	0.71		<b>20</b>	0528	1.09		<b>28</b>	0045	0.91
	1210	0.48			1053	1.13			1217	0.45			0600	0.61
SU	1805	0.90		MO	1747	0.39		TU	1805	0.88		WE	1223	1.19
	2344	0.45			2353	0.82			2329	0.44			1905	0.24
<b>5</b>	0637	1.09		<b>13</b>	0322	0.74		<b>21</b>	0620	1.15		<b>29</b>	0144	0.93
	1303	0.41			1126	1.10			1310	0.33			0702	0.62
MO	1856	0.87		TU	1829	0.41		WE	1901	0.89		TH	1315	1.09
													1956	0.33
<b>6</b>	0016	0.50		<b>14</b>	0049	0.83		<b>22</b>	0012	0.46		<b>30</b>	0240	0.96
	0721	1.12			0429	0.76			0715	1.22			0808	0.62
TU	1350	0.36		WE	1157	1.06		TH	1400	0.22		FR	1414	0.98
	1939	0.84			1912	0.43			1953	0.90		●	2045	0.40
<b>7</b>	0046	0.54		<b>15</b>	0145	0.85		<b>23</b>	0057	0.49		<b>31</b>	0337	0.99
	0800	1.14			0648	0.77			0807	1.27			0930	0.61
WE	1432	0.33		TH	1231	1.02		FR	1451	0.14		SA	1530	0.88
	2018	0.83			1957	0.43		●	2045	0.90			2134	0.46
<b>8</b>	0113	0.58		<b>16</b>	0237	0.88		<b>24</b>	0148	0.52				
	0835	1.15			0751	0.76			0859	1.31				
TH	1512	0.31		FR	1315	0.98		SA	1542	0.09				
○	2056	0.82		●	2042	0.43			2141	0.90				

Lakes Ent

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 When daylight saving time is in force, add one hour to times

# Melbourne (Williamstown)

*Time Differences for Supplementary Locations  
– based on Melbourne (Williamstown)*

Location	Time diff (earlier) later	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
	HM	metres	metres	metres	metres
Port Phillip Heads	(3 20)	1.5	1.3	0.6	0.4
Dromana	(0 05)	1.0	0.6	0.5	0.2
Mornington	(0 05)	1.0	0.6	0.5	0.2
Portarlington	(0 05)	1.0	0.6	0.5	0.2
Werribee River Entrance	(0 05)	1.0	0.6	0.5	0.2
Point Cook	(0 05)	1.0	0.6	0.5	0.2
Frankston Pier	(0 03)	1.0	0.6	0.5	0.2
Mordialloc Pier	(0 03)	1.0	0.6	0.5	0.2
Sandringham Pier	0 00	1.0	0.6	0.5	0.2
Altona Pier	0 00	1.0	0.6	0.5	0.2
St Kilda Pier	0 00	1.0	0.6	0.5	0.2
<b>Williamstown</b>	<b>0 00</b>	<b>1.0</b>	<b>0.6</b>	<b>0.5</b>	<b>0.2</b>
River Yarra - City	0 05				
River Yarra - Hawthorn	0 25				
Maribyrnong River - Marib.	0 15				

# Melbourne (Williamstown) Datums

Latitude 37°52' S Longitude 144°55' E (WGS 84)

AHD metres	Predominantly diurnal tides	Chart Datum metres
1.12	Highest recorded tide 24/06/2014 (1966 - 2019)	1.64
0.59	Highest Astronomical Tide (HAT)	1.11
0.54	Mean Higher High Water (MHHW)	1.07
0.21	Mean Lower High Water (MLHW)	0.73
0.07	Mean Higher Low Water (MLHW)	0.59
<b>0.000</b>	<b>Australian Height Datum</b>	<b>0.524</b>
-0.26	Mean Lower Low Water (MLLW)	0.26
-0.484	Lowest Astronomical Tide (LAT) & Prediction Datum	0.04
<b>-0.524</b>	<b>Chart Datum</b>	<b>0.000</b>
-0.76	Lowest recorded tide 02/12/1966 (1966-2019)	-0.24

Melbourne

Information supplied by Commonwealth of Australia, Bureau of Meteorology & Australian Hydrographic Office

# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0049	0.82		<b>9</b>	0119	0.25		<b>17</b>	0313	0.86		<b>25</b>	0120	0.30
	0556	0.57			0745	0.94			0854	0.58			0744	0.91
SA	1137	0.88		SU	1412	0.34		MO	1318	0.78		TU	1416	0.32
	1903	0.19			1950	0.84			2045	0.20		●	2006	0.84
<b>2</b>	0215	0.86		<b>10</b>	0159	0.30		<b>18</b>	0402	0.88		<b>26</b>	0156	0.34
	0720	0.60			0820	0.93			0952	0.55			0813	0.92
SU	1238	0.88		MO	1457	0.32		TU	1413	0.78		WE	1457	0.28
	2009	0.15		●	2044	0.81			2136	0.19			2057	0.83
<b>3</b>	0326	0.90		<b>11</b>	0237	0.35		<b>19</b>	0445	0.90		<b>27</b>	0235	0.40
	0848	0.60			0855	0.92			1037	0.51			0845	0.92
MO	1341	0.88		TU	1542	0.30		WE	1508	0.78		TH	1541	0.25
●	2113	0.13			2139	0.79			2223	0.18			2153	0.82
<b>4</b>	0424	0.93		<b>12</b>	0317	0.41		<b>20</b>	0520	0.90		<b>28</b>	0320	0.46
	1006	0.56			0930	0.90			1116	0.47			0922	0.92
TU	1444	0.88		WE	1628	0.29		TH	1602	0.79		FR	1630	0.22
	2213	0.13			2243	0.78			2304	0.19			2301	0.81
<b>5</b>	0513	0.94		<b>13</b>	0400	0.47		<b>21</b>	0552	0.90		<b>29</b>	0414	0.52
	1102	0.51			1006	0.88			1152	0.44			1006	0.90
WE	1549	0.88		TH	1715	0.27		FR	1655	0.80		SA	1729	0.20
	2306	0.14			2357	0.78			2342	0.21				
<b>6</b>	0555	0.95		<b>14</b>	0453	0.53		<b>22</b>	0621	0.90		<b>30</b>	0029	0.80
	1153	0.46			1045	0.85			1228	0.41			0520	0.57
TH	1659	0.88		FR	1806	0.25		SA	1744	0.82		SU	1102	0.88
	2354	0.17											1835	0.18
<b>7</b>	0633	0.94		<b>15</b>	0110	0.80		<b>23</b>	0016	0.23		<b>31</b>	0153	0.82
	1240	0.41			0605	0.57			0648	0.91			0645	0.59
FR	1800	0.88		SA	1131	0.82		SU	1302	0.38		MO	1210	0.86
					1900	0.23			1831	0.83			1945	0.16
<b>8</b>	0038	0.20		<b>16</b>	0215	0.83		<b>24</b>	0048	0.26				
	0710	0.94			0734	0.59			0715	0.91				
SA	1327	0.37		SU	1224	0.79		MO	1338	0.35				
	1857	0.86			1953	0.22			1918	0.83				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S LONG 144° 55' E TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY - 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0303	0.84		<b>9</b>	0217	0.37		<b>17</b>	0408	0.83	<b>25</b>	0227	0.44
	0818	0.57			0817	0.91			1006	0.48		0815	0.92
TU	1320	0.84		WE	1504	0.25		TH	1452	0.75	FR	1520	0.21
●	2056	0.15			2114	0.83		○	2202	0.22		2143	0.85
<b>2</b>	0401	0.86		<b>10</b>	0252	0.42		<b>18</b>	0444	0.85	<b>26</b>	0308	0.49
	0951	0.52			0848	0.90			1047	0.43		0853	0.91
WE	1434	0.83		TH	1542	0.25		FR	1558	0.78	SA	1607	0.20
	2201	0.16			2205	0.81			2247	0.23		2246	0.82
<b>3</b>	0448	0.88		<b>11</b>	0329	0.46		<b>19</b>	0514	0.86	<b>27</b>	0358	0.52
	1051	0.45			0921	0.88			1126	0.38		0941	0.89
TH	1556	0.84		FR	1621	0.24		SA	1652	0.81	SU	1701	0.20
	2257	0.17			2304	0.80			2327	0.25			
<b>4</b>	0529	0.89		<b>12</b>	0411	0.51		<b>20</b>	0543	0.87	<b>28</b>	0003	0.80
	1141	0.39			0957	0.85			1202	0.34		0500	0.55
FR	1702	0.85		SA	1707	0.24		SU	1740	0.84	MO	1042	0.86
	2345	0.20										1808	0.20
<b>5</b>	0604	0.90		<b>13</b>	0015	0.79		<b>21</b>	0003	0.28			
	1226	0.34			0500	0.55			0611	0.88			
SA	1758	0.86		SU	1040	0.81		MO	1239	0.31			
					1801	0.24			1826	0.87			
<b>6</b>	0027	0.24		<b>14</b>	0128	0.79		<b>22</b>	0038	0.32			
	0639	0.91			0610	0.58			0640	0.90			
SU	1309	0.30		MO	1135	0.77		TU	1317	0.27			
	1848	0.86			1905	0.23			1912	0.89			
<b>7</b>	0105	0.28		<b>15</b>	0233	0.80		<b>23</b>	0113	0.36			
	0713	0.92			0749	0.58			0709	0.91			
MO	1348	0.28		TU	1239	0.74		WE	1357	0.25			
	1937	0.85			2009	0.23			1959	0.89			
<b>8</b>	0142	0.33		<b>16</b>	0326	0.82		<b>24</b>	0148	0.40			
	0745	0.92			0913	0.54			0741	0.92			
TU	1427	0.26		WE	1345	0.74		TH	1437	0.23			
●	2025	0.84			2109	0.22		○	2048	0.87			

Melbourne

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 Datum is Lowest Astronomical Tide  
 When daylight saving time is in force, add one hour to times

# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MARCH – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0119	0.79		<b>9</b>	0123	0.38		<b>17</b>	0225	0.78	<b>25</b>	0144	0.47	
	0623	0.55			0707	0.91			0815	0.50		0710	0.93	
TU	1156	0.82		WE	1350	0.24		TH	1324	0.73		FR	1415	0.21
	1922	0.21			2003	0.89			2031	0.30		●	2042	0.92
<b>2</b>	0229	0.80		<b>10</b>	0156	0.41		<b>18</b>	0312	0.80	<b>26</b>	0222	0.49	
	0806	0.52			0737	0.90			0919	0.44		0750	0.93	
WE	1316	0.80		TH	1424	0.24		FR	1444	0.76		SA	1459	0.21
	2041	0.22		●	2045	0.88		○	2133	0.31			2134	0.89
<b>3</b>	0326	0.82		<b>11</b>	0228	0.44		<b>19</b>	0350	0.82	<b>27</b>	0304	0.51	
	0937	0.44			0807	0.89			1007	0.38		0835	0.91	
TH	1448	0.80		FR	1459	0.23		SA	1549	0.81		SU	1545	0.22
●	2152	0.23			2129	0.86			2225	0.32			2230	0.85
<b>4</b>	0414	0.85		<b>12</b>	0301	0.47		<b>20</b>	0424	0.84	<b>28</b>	0354	0.52	
	1034	0.37			0838	0.87			1049	0.32		0930	0.87	
FR	1602	0.83		SA	1535	0.23		SU	1643	0.86		MO	1636	0.24
	2246	0.24			2215	0.83			2309	0.35			2332	0.83
<b>5</b>	0453	0.86		<b>13</b>	0339	0.50		<b>21</b>	0456	0.86	<b>29</b>	0456	0.52	
	1121	0.31			0914	0.84			1130	0.28		1039	0.83	
SA	1700	0.86		SU	1616	0.24		MO	1731	0.91		TU	1739	0.27
	2332	0.27			2311	0.80			2349	0.38				
<b>6</b>	0530	0.88		<b>14</b>	0422	0.53		<b>22</b>	0527	0.89	<b>30</b>	0038	0.81	
	1202	0.28			0956	0.80			1210	0.25		0622	0.50	
SU	1750	0.88		MO	1704	0.26		TU	1818	0.94		WE	1200	0.80
												1858	0.30	
<b>7</b>	0013	0.31		<b>15</b>	0015	0.78		<b>23</b>	0028	0.41	<b>31</b>	0144	0.82	
	0603	0.89			0518	0.55			0600	0.91		0803	0.45	
MO	1240	0.25		TU	1051	0.76		WE	1251	0.22		TH	1335	0.79
	1837	0.89			1805	0.28			1904	0.95			2025	0.32
<b>8</b>	0049	0.34		<b>16</b>	0125	0.77		<b>24</b>	0106	0.44				
	0635	0.90			0641	0.55			0633	0.92				
TU	1315	0.24		WE	1204	0.73			1333	0.21				
	1921	0.90			1920	0.29			1952	0.94				

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**APRIL - 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0243	0.83		<b>9</b>	0204	0.49		<b>17</b>	0242	0.84		<b>25</b>	0303	0.53
	0917	0.37			0726	0.89			0917	0.33			0830	0.90
FR	1459	0.83		SA	1420	0.25		SU	1537	0.88		MO	1522	0.28
●	2138	0.34		○	2057	0.92		○	2157	0.46			2208	0.91
<b>2</b>	0331	0.85		<b>10</b>	0236	0.50		<b>18</b>	0323	0.87		<b>26</b>	0355	0.52
	1010	0.31			0800	0.87			1007	0.27			0934	0.86
SA	1602	0.87		SU	1456	0.26		MO	1631	0.95		TU	1611	0.32
	2231	0.36			2136	0.89			2247	0.48			2259	0.89
<b>3</b>	0413	0.86		<b>11</b>	0312	0.52		<b>19</b>	0401	0.89		<b>27</b>	0502	0.49
	1053	0.27			0836	0.84			1054	0.24			1048	0.82
SU	1655	0.91		MO	1533	0.27		TU	1722	0.99		WE	1711	0.37
	2315	0.38			2220	0.86			2332	0.50			2354	0.88
<b>4</b>	0449	0.87		<b>12</b>	0354	0.53		<b>20</b>	0439	0.92		<b>28</b>	0630	0.45
	1130	0.25			0921	0.80			1139	0.22			1216	0.81
MO	1741	0.94		TU	1615	0.30		WE	1811	1.01		TH	1830	0.42
	2354	0.41			2311	0.83								
<b>5</b>	0522	0.89		<b>13</b>	0447	0.53		<b>21</b>	0014	0.52		<b>29</b>	0054	0.87
	1204	0.24			1020	0.77			0519	0.94			0747	0.39
TU	1823	0.96		WE	1707	0.34		TH	1225	0.21		FR	1345	0.84
									1900	1.02			2001	0.46
<b>6</b>	0030	0.43		<b>14</b>	0006	0.82		<b>22</b>	0055	0.53		<b>30</b>	0152	0.87
	0554	0.90			0558	0.51			0600	0.95			0848	0.33
WE	1238	0.24		TH	1140	0.74		FR	1310	0.21		SA	1457	0.89
	1903	0.96			1815	0.38			1947	1.00			2116	0.47
<b>7</b>	0102	0.45		<b>15</b>	0103	0.81		<b>23</b>	0135	0.53				
	0624	0.91			0718	0.46			0646	0.95				
TH	1311	0.24		FR	1310	0.76		SA	1354	0.23				
	1942	0.96			1935	0.41		○	2035	0.97				
<b>8</b>	0133	0.47		<b>16</b>	0156	0.82		<b>24</b>	0217	0.53				
	0655	0.90			0824	0.39			0735	0.93				
FR	1345	0.25		SU	1431	0.81			1437	0.25				
	2019	0.94			2052	0.44			2121	0.94				

Melbourne

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0243	0.88		<b>9</b>	0215	0.54		<b>17</b>	0223	0.92		<b>25</b>	0359	0.48
SU	0937	0.28		MO	0728	0.87		TU	0928	0.24		WE	0941	0.86
●	1556	0.94		MO	1419	0.30		TU	1622	1.01		WE	1547	0.40
	2211	0.49		○	2102	0.94			2222	0.60			2223	0.96
<b>2</b>	0326	0.88		<b>10</b>	0250	0.54		<b>18</b>	0310	0.94		<b>26</b>	0507	0.44
MO	1017	0.26		MO	0810	0.85		WE	1021	0.21		TH	1057	0.84
	1645	0.98		TU	1454	0.32		WE	1716	1.05		TH	1643	0.47
	2255	0.50			2138	0.92			2312	0.60			2311	0.94
<b>3</b>	0402	0.89		<b>11</b>	0332	0.53		<b>19</b>	0358	0.96		<b>27</b>	0616	0.40
TU	1052	0.26		WE	0900	0.82		TH	1112	0.21		FR	1222	0.85
	1729	1.01			1532	0.36		TH	1806	1.06			1758	0.53
	2332	0.51			2218	0.91			2358	0.59				
<b>4</b>	0435	0.90		<b>12</b>	0424	0.51		<b>20</b>	0445	0.98		<b>28</b>	0001	0.93
WE	1126	0.26		MO	1004	0.79		MO	1201	0.22		SA	0716	0.35
	1809	1.02		TH	1618	0.41		FR	1853	1.05		SA	1339	0.89
					2303	0.89						1926	0.57	
<b>5</b>	0007	0.52		<b>13</b>	0526	0.47		<b>21</b>	0042	0.58		<b>29</b>	0054	0.91
TH	0507	0.91		MO	1125	0.79		MO	0538	0.98		SU	0809	0.31
	1200	0.26		FR	1720	0.47		SA	1248	0.23		SU	1445	0.94
	1846	1.02			2353	0.89		SA	1937	1.03			2045	0.59
<b>6</b>	0040	0.53		<b>14</b>	0635	0.41		<b>22</b>	0126	0.56		<b>30</b>	0145	0.90
FR	0541	0.92		MO	1254	0.82		MO	0634	0.96		MO	0856	0.28
	1235	0.27		SA	1838	0.53		SU	1333	0.26		●	1541	0.99
	1922	1.01						2018	1.01			2145	0.60	
<b>7</b>	0112	0.53		<b>15</b>	0045	0.89		<b>23</b>	0212	0.53		<b>31</b>	0230	0.89
SA	0615	0.91		MO	0738	0.34		MO	0733	0.93		MO	0936	0.27
	1310	0.28		SU	1415	0.89		MO	1416	0.30		TU	1630	1.02
	1956	0.99			2000	0.57		○	2059	0.99			2230	0.59
<b>8</b>	0143	0.54		<b>16</b>	0135	0.90		<b>24</b>	0301	0.51				
SU	0650	0.90		MO	0834	0.28		MO	0835	0.90				
	1345	0.29		MO	1523	0.96		TU	1500	0.35				
	2029	0.97		○	2119	0.60			2140	0.97				

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JUNE - 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0309	0.90	<b>9</b>	0315	0.50	<b>17</b>	0328	0.98	<b>25</b>	0544	0.35
WE	1014	0.27		0853	0.84		1051	0.21		1207	0.87
WE	1714	1.04	TH	1456	0.41	FR	1754	1.05	SA	1715	0.59
	2310	0.59		2134	0.97		2342	0.61		2311	0.95
<b>2</b>	0347	0.91	<b>10</b>	0402	0.46	<b>18</b>	0426	0.98	<b>26</b>	0635	0.32
	1050	0.27		0956	0.83		1142	0.22		1318	0.90
TH	1752	1.05	FR	1542	0.47	SA	1836	1.05	SU	1836	0.64
	2345	0.58		2212	0.96					2359	0.92
<b>3</b>	0426	0.92	<b>11</b>	0457	0.41	<b>19</b>	0029	0.57	<b>27</b>	0725	0.30
	1128	0.27		1109	0.84		0530	0.97		1421	0.94
FR	1829	1.04	SA	1639	0.54	SU	1230	0.25	MO	2000	0.66
				2255	0.96		1915	1.04			
<b>4</b>	0019	0.57	<b>12</b>	0558	0.35	<b>20</b>	0116	0.52	<b>28</b>	0047	0.90
	0505	0.92		1233	0.87		0634	0.95		0812	0.28
SA	1204	0.28	SU	1751	0.61	MO	1315	0.29	TU	1518	0.98
	1901	1.03		2345	0.95		1953	1.03		2111	0.65
<b>5</b>	0051	0.56	<b>13</b>	0700	0.30	<b>21</b>	0205	0.49	<b>29</b>	0136	0.89
	0545	0.91		1357	0.93		0735	0.93		0857	0.27
SU	1240	0.30	MO	1912	0.66	TU	1358	0.34	WE	1609	1.01
	1931	1.01				O	2030	1.02	●	2204	0.64
<b>6</b>	0124	0.56	<b>14</b>	0041	0.95	<b>22</b>	0257	0.45	<b>30</b>	0224	0.88
	0626	0.89		0800	0.25		0835	0.90		0941	0.26
MO	1314	0.32	TU	1511	0.98	WE	1441	0.40	TH	1653	1.02
	2000	1.00	O	2034	0.68		2108	1.01		2247	0.61
<b>7</b>	0157	0.55	<b>15</b>	0137	0.96	<b>23</b>	0350	0.42			
	0709	0.87		0858	0.22		0938	0.87			
TU	1345	0.34	WE	1614	1.02	TH	1525	0.46			
	2030	0.99		2153	0.67		2146	1.00			
<b>8</b>	0233	0.53	<b>16</b>	0232	0.97	<b>24</b>	0447	0.38			
	0758	0.85		0956	0.20		1049	0.86			
WE	1418	0.36	TH	1707	1.05	FR	1614	0.53			
O	2100	0.98		2251	0.65		2228	0.98			

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**JULY – 2022**

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0311	0.89	<b>9</b>	0340	0.39	<b>17</b>	0424	0.95	<b>25</b>	0545	0.30
	1023	0.26		0944	0.86		1128	0.23		1244	0.88
FR	1731	1.02	SA	1514	0.51	SU	1811	1.01	MO	1732	0.64
	2325	0.59		2129	0.99					2307	0.91
<b>2</b>	0357	0.89	<b>10</b>	0429	0.34	<b>18</b>	0017	0.49	<b>26</b>	0636	0.28
	1103	0.27		1049	0.87		0533	0.94		1348	0.90
SA	1805	1.01	SU	1606	0.58	MO	1215	0.27	TU	1854	0.66
				2208	0.98		1847	1.01		2359	0.87
<b>3</b>	0000	0.56	<b>11</b>	0525	0.30	<b>19</b>	0105	0.44	<b>27</b>	0729	0.27
	0443	0.89		1212	0.88		0633	0.93		1448	0.92
SU	1141	0.29	MO	1711	0.65	TU	1300	0.32	WE	2024	0.66
	1835	1.00		2258	0.97		1923	1.02			
<b>4</b>	0033	0.54	<b>12</b>	0628	0.26	<b>20</b>	0152	0.40	<b>28</b>	0054	0.85
	0529	0.88		1338	0.91		0730	0.91		0822	0.26
MO	1215	0.31	TU	1830	0.69	WE	1341	0.37	TH	1541	0.94
	1903	1.00		2359	0.96		1958	1.02		2133	0.63
<b>5</b>	0106	0.52	<b>13</b>	0731	0.22	<b>21</b>	0238	0.37	<b>29</b>	0150	0.84
	0615	0.87		1454	0.94		0825	0.89		0913	0.25
TU	1246	0.33	WE	1954	0.70	TH	1421	0.42	FR	1625	0.95
	1930	1.00				●	2033	1.01	●	2222	0.58
<b>6</b>	0140	0.50	<b>14</b>	0103	0.95	<b>22</b>	0324	0.35	<b>30</b>	0246	0.83
	0703	0.87		0835	0.20		0923	0.88		1000	0.25
WE	1317	0.36	TH	1557	0.97	FR	1501	0.48	SA	1702	0.95
	1956	1.00	○	2123	0.67		2108	1.00		2301	0.54
<b>7</b>	0216	0.47	<b>15</b>	0208	0.95	<b>23</b>	0410	0.33	<b>31</b>	0343	0.84
	0754	0.86		0937	0.19		1027	0.87		1044	0.26
TH	1351	0.39	FR	1648	0.99	SA	1544	0.54	SU	1733	0.95
●	2024	1.00		2233	0.61		2145	0.97		2337	0.51
<b>8</b>	0256	0.43	<b>16</b>	0313	0.95	<b>24</b>	0457	0.31			
	0846	0.86		1035	0.20		1136	0.87			
FR	1430	0.44	SA	1731	1.00		1631	0.59			
	2055	1.00		2328	0.55		2223	0.94			

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## AUGUST – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0437	0.85	<b>9</b>	0456	0.25	<b>17</b>	0045	0.34	<b>25</b>	0644	0.27
	1122	0.28		1150	0.85		0626	0.92		1406	0.84
MO	1801	0.96	TU	1639	0.63	WE	1245	0.34	TH	1919	0.62
				2222	0.96		1848	0.98			
<b>2</b>	0011	0.47	<b>10</b>	0559	0.23	<b>18</b>	0127	0.31	<b>26</b>	0017	0.79
	0526	0.86		1315	0.86		0716	0.91		0746	0.27
TU	1156	0.31	WE	1755	0.65	TH	1324	0.39	FR	1500	0.85
	1828	0.96		2330	0.93		1923	0.98		2051	0.58
<b>3</b>	0045	0.44	<b>11</b>	0707	0.21	<b>19</b>	0207	0.30	<b>27</b>	0126	0.77
	0613	0.87		1428	0.87		0807	0.90		0845	0.26
WE	1227	0.34	TH	1925	0.65	FR	1400	0.43	SA	1545	0.86
	1854	0.97				●	1956	0.98	●	2147	0.52
<b>4</b>	0119	0.41	<b>12</b>	0044	0.91	<b>20</b>	0246	0.29	<b>28</b>	0236	0.78
	0659	0.87		0815	0.20		0859	0.88		0939	0.27
TH	1258	0.38	FR	1530	0.90	SA	1437	0.47	SU	1621	0.88
	1920	0.98	○	2103	0.60		2029	0.96		2230	0.47
<b>5</b>	0156	0.38	<b>13</b>	0158	0.90	<b>21</b>	0325	0.28	<b>29</b>	0341	0.80
	0745	0.88		0924	0.20		0952	0.87		1025	0.28
FR	1331	0.42	SA	1618	0.92	SU	1514	0.51	MO	1652	0.89
●	1948	0.98		2219	0.52		2101	0.94		2305	0.42
<b>6</b>	0234	0.35	<b>14</b>	0318	0.89	<b>22</b>	0405	0.28	<b>30</b>	0433	0.83
	0835	0.88		1025	0.22		1050	0.85		1105	0.31
SA	1410	0.47	SU	1700	0.94	MO	1554	0.56	TU	1720	0.90
	2018	0.99		2314	0.45		2137	0.91		2341	0.38
<b>7</b>	0315	0.31	<b>15</b>	0432	0.91	<b>23</b>	0450	0.28	<b>31</b>	0520	0.87
	0928	0.87		1117	0.25		1155	0.84		1140	0.34
SU	1452	0.52	MO	1738	0.95	TU	1640	0.59	WE	1746	0.92
	2051	0.98					2219	0.87			
<b>8</b>	0402	0.28	<b>16</b>	0000	0.38	<b>24</b>	0543	0.27			
	1030	0.86		0532	0.91		1302	0.83			
MO	1541	0.58	TU	1203	0.29	WE	1742	0.62			
	2130	0.97		1814	0.97		2313	0.82			

Melbourne

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0015	0.34	<b>9</b>	0644	0.23	<b>17</b>	0130	0.25	<b>25</b>	0111	0.73
	0604	0.89		1350	0.82		0745	0.92		0810	0.32
TH	1213	0.37	FR	1912	0.56	SA	1339	0.44	SU	1445	0.80
	1815	0.93					1916	0.94		2059	0.45
<b>2</b>	0052	0.31	<b>10</b>	0041	0.84	<b>18</b>	0205	0.25	<b>26</b>	0230	0.76
	0648	0.91		0800	0.23		0830	0.90		0912	0.33
FR	1245	0.41	SA	1450	0.84	SU	1413	0.46	MO	1525	0.82
	1843	0.95	○	2055	0.49	○	1948	0.92	●	2145	0.38
<b>3</b>	0130	0.29	<b>11</b>	0211	0.84	<b>19</b>	0242	0.25	<b>27</b>	0333	0.81
	0734	0.91		0915	0.25		0915	0.87		1002	0.35
SA	1320	0.45	SU	1541	0.86	MO	1446	0.49	TU	1559	0.84
	1913	0.96		2202	0.40		2020	0.90		2226	0.32
<b>4</b>	0210	0.27	<b>12</b>	0331	0.87	<b>20</b>	0319	0.26	<b>28</b>	0424	0.87
	0822	0.89		1016	0.27		1002	0.84		1046	0.37
SU	1357	0.49	MO	1623	0.89	TU	1522	0.52	WE	1630	0.87
●	1945	0.96		2253	0.33		2055	0.87		2304	0.28
<b>5</b>	0252	0.25	<b>13</b>	0433	0.90	<b>21</b>	0400	0.26	<b>29</b>	0510	0.91
	0914	0.87		1106	0.30		1054	0.81		1126	0.40
MO	1437	0.52	TU	1701	0.91	WE	1603	0.54	TH	1700	0.89
	2020	0.95		2337	0.28		2136	0.82		2343	0.25
<b>6</b>	0337	0.24	<b>14</b>	0526	0.92	<b>22</b>	0446	0.28	<b>30</b>	0554	0.94
	1014	0.84		1149	0.34		1154	0.79		1202	0.43
TU	1524	0.56	WE	1736	0.92	TH	1656	0.56	FR	1731	0.91
	2104	0.94					2231	0.77			
<b>7</b>	0430	0.23	<b>15</b>	0016	0.26	<b>23</b>	0545	0.29			
	1126	0.82		0615	0.93		1259	0.78			
WE	1620	0.58	TH	1228	0.37	FR	1815	0.56			
	2202	0.91		1811	0.94		2347	0.74			
<b>8</b>	0531	0.23	<b>16</b>	0054	0.25	<b>24</b>	0659	0.31			
	1241	0.81		0700	0.93		1358	0.79			
TH	1737	0.58	FR	1304	0.41	SA	1955	0.51			
	2318	0.87		1845	0.94						

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Datum is Lowest Astronomical Tide

# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE -1000  
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER - 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0022	0.24	<b>9</b>	0059	0.80	<b>17</b>	0126	0.23	<b>25</b>	0217	0.78
	0639	0.95		0745	0.32		0802	0.92		0831	0.43
SA	1239	0.45	SU	1404	0.82	MO	1348	0.47	TU	1414	0.81
	1805	0.93		2040	0.37		1909	0.89	●	2055	0.30
<b>2</b>	0103	0.23	<b>10</b>	0228	0.83	<b>18</b>	0201	0.24	<b>26</b>	0320	0.85
	0725	0.93		0903	0.33		0841	0.89		0934	0.45
SU	1315	0.48	MO	1457	0.84	TU	1420	0.48	WE	1456	0.83
	1840	0.94	○	2139	0.30	●	1943	0.86		2143	0.25
<b>3</b>	0145	0.22	<b>11</b>	0335	0.88	<b>19</b>	0238	0.25	<b>27</b>	0413	0.92
	0813	0.91		1003	0.35		0920	0.86		1025	0.46
MO	1352	0.50	TU	1542	0.86	WE	1455	0.50	TH	1534	0.86
○	1918	0.93		2226	0.25		2019	0.83		2227	0.21
<b>4</b>	0229	0.22	<b>12</b>	0430	0.92	<b>20</b>	0315	0.27	<b>28</b>	0501	0.96
	0903	0.87		1051	0.38		1002	0.83		1109	0.48
TU	1433	0.52	WE	1621	0.87		1535	0.51	FR	1613	0.88
	2001	0.92		2306	0.22		2104	0.78		2312	0.19
<b>5</b>	0314	0.23	<b>13</b>	0517	0.95	<b>21</b>	0358	0.30	<b>29</b>	0547	0.98
	0958	0.84		1132	0.40		1050	0.80		1149	0.49
WE	1520	0.53	TH	1657	0.89		1626	0.50	SA	1652	0.91
	2054	0.89		2342	0.22		2203	0.74		2356	0.18
<b>6</b>	0404	0.24	<b>14</b>	0601	0.96	<b>22</b>	0447	0.33	<b>30</b>	0633	0.98
	1057	0.81		1209	0.42		1143	0.79		1229	0.50
TH	1618	0.52	FR	1730	0.90		1732	0.48	SU	1733	0.92
	2202	0.84					2325	0.72			
<b>7</b>	0504	0.27	<b>15</b>	0016	0.22	<b>23</b>	0553	0.38	<b>31</b>	0040	0.19
	1200	0.80		0643	0.96		1236	0.78		0720	0.96
FR	1737	0.50	SA	1243	0.44		1857	0.44	MO	1309	0.50
	2324	0.81		1803	0.91					1816	0.93
<b>8</b>	0619	0.29	<b>16</b>	0051	0.23	<b>24</b>	0057	0.73			
	1304	0.81		0723	0.94		0715	0.41			
SA	1915	0.45	SU	1316	0.45		1328	0.79			
				1836	0.91		2002	0.37			

Melbourne

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 Datum is Lowest Astronomical Tide  
 When daylight saving time is in force, add one hour to times

# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0124	0.20	<b>9</b>	0330	0.91	<b>17</b>	0201	0.26	<b>25</b>	0403	0.94
	0806	0.93		0944	0.45		0845	0.89		0958	0.55
TU	1350	0.50	WE	1455	0.84	TH	1434	0.47	FR	1445	0.87
●	1904	0.91		2153	0.21		1956	0.80		2156	0.16
<b>2</b>	0208	0.22	<b>10</b>	0423	0.95	<b>18</b>	0235	0.28	<b>26</b>	0456	0.98
	0851	0.89		1031	0.46		0919	0.87		1049	0.55
WE	1434	0.49	TH	1536	0.85	FR	1515	0.46	SA	1532	0.89
	1959	0.88		2231	0.20		2045	0.77		2246	0.15
<b>3</b>	0253	0.25	<b>11</b>	0508	0.98	<b>19</b>	0313	0.32	<b>27</b>	0545	0.99
	0937	0.87		1113	0.47		0957	0.85		1134	0.53
TH	1524	0.48	FR	1614	0.87	SA	1602	0.44	SU	1621	0.91
	2101	0.84		2306	0.20		2147	0.74		2335	0.15
<b>4</b>	0341	0.28	<b>12</b>	0549	0.98	<b>20</b>	0358	0.37	<b>28</b>	0630	0.98
	1025	0.85		1149	0.47		1039	0.83		1217	0.51
FR	1625	0.45	SA	1648	0.88	SU	1700	0.41	MO	1712	0.92
	2214	0.80		2341	0.21		2305	0.73			
<b>5</b>	0438	0.33	<b>13</b>	0628	0.98	<b>21</b>	0456	0.44	<b>29</b>	0022	0.17
	1117	0.84		1223	0.47		1125	0.82		0712	0.96
SA	1745	0.41	SU	1724	0.88	MO	1807	0.36	TU	1301	0.49
	2340	0.78							1807	0.91	
<b>6</b>	0553	0.39	<b>14</b>	0016	0.21	<b>22</b>	0034	0.76	<b>30</b>	0107	0.19
	1214	0.83		0704	0.96		0610	0.50		0752	0.94
SU	1907	0.35	MO	1256	0.47	TU	1215	0.82	WE	1346	0.46
				1800	0.88		1913	0.30		1906	0.89
<b>7</b>	0114	0.81	<b>15</b>	0052	0.23	<b>23</b>	0157	0.82			
	0722	0.42		0739	0.93		0733	0.54			
MO	1313	0.83	TU	1328	0.47	WE	1306	0.83			
	2014	0.28		1836	0.86		2011	0.24			
<b>8</b>	0230	0.86	<b>16</b>	0127	0.24	<b>24</b>	0305	0.88			
	0844	0.44		0812	0.91		0853	0.55			
TU	1408	0.84	WE	1400	0.48	TH	1357	0.84			
●	2108	0.23	●	1915	0.83	●	2104	0.19			

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# MELBOURNE (WILLIAMSTOWN)

LAT 37° 52' S    LONG 144° 55' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0150	0.23	<b>9</b>	0410	0.95	<b>17</b>	0202	0.30	<b>25</b>	0447	0.95
0831	0.92		1010	0.52		0842	0.90		1027	0.57	
TH 1435	0.44		FR 1448	0.83		SA 1457	0.41		SU 1503	0.88	
○ 2007	0.85		2158	0.19		2038	0.77		2229	0.13	
<b>2</b>	0234	0.27	<b>10</b>	0455	0.97	<b>18</b>	0238	0.34	<b>26</b>	0533	0.95
0911	0.91		1053	0.51		0913	0.89		1118	0.53	
FR 1528	0.40		SA 1531	0.84		SU 1540	0.37		MO 1603	0.89	
2111	0.82		2236	0.19		2135	0.76		2320	0.14	
<b>3</b>	0320	0.33	<b>11</b>	0535	0.97	<b>19</b>	0320	0.40	<b>27</b>	0615	0.95
0952	0.89		1130	0.50		0947	0.88		1206	0.48	
SA 1629	0.37		SU 1613	0.84		MO 1630	0.33		TU 1707	0.90	
2221	0.79		2314	0.20		2243	0.76				
<b>4</b>	0413	0.40	<b>12</b>	0612	0.96	<b>20</b>	0412	0.47	<b>28</b>	0009	0.16
1037	0.88		1206	0.48		1026	0.87		0653	0.95	
SU 1737	0.33		MO 1655	0.85		TU 1727	0.29		1254	0.43	
2345	0.79		2350	0.21					1812	0.89	
<b>5</b>	0520	0.46	<b>13</b>	0645	0.95	<b>21</b>	0004	0.78	<b>29</b>	0054	0.20
1126	0.87		1239	0.47		0518	0.55		0729	0.94	
MO 1841	0.28		TU 1736	0.84		WE 1113	0.86		1342	0.39	
						1830	0.24		1912	0.88	
<b>6</b>	0109	0.82	<b>14</b>	0026	0.22	<b>22</b>	0132	0.82	<b>30</b>	0137	0.25
0646	0.51		0715	0.93		0637	0.60		0805	0.94	
TU 1218	0.85		WE 1312	0.46		TH 1207	0.85		1430	0.35	
1939	0.24		1818	0.82		1932	0.20		2010	0.85	
<b>7</b>	0218	0.87	<b>15</b>	0100	0.24	<b>23</b>	0250	0.87	<b>31</b>	0219	0.30
0811	0.53		0745	0.91		0800	0.62		0842	0.94	
WE 1312	0.84		TH 1345	0.45		FR 1307	0.86		1521	0.31	
2030	0.21		1901	0.81		● 2033	0.16		2110	0.83	
<b>8</b>	0318	0.92	<b>16</b>	0130	0.26	<b>24</b>	0354	0.92			
0918	0.53		0813	0.91		0923	0.61				
TH 1401	0.83		FR 1419	0.43		SA 1406	0.87				
○ 2116	0.20		● 1947	0.79		2132	0.14				

Melbourne

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# Port Phillip Heads (Pt. Lonsdale)

*Time Differences for Supplementary Locations*

*- based on Port Phillip Heads (Pt. Lonsdale)*

Location	Time diff (earlier) later	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
Port Phillip					
<i>Bass Strait locations in Italics</i>	HM	metres	metres	metres	metres
Apollo Bay	(0 30)	2.0	1.3	1.1	0.4
Lorne	(0 19)	2.3	1.9	1.1	0.7
<i>King Island (Grassy)</i>	(0 18)	1.6	0.9	0.8	0.2
<i>Rip Bank</i>	(0 15)	2.5	1.8	1.1	0.4
<i>Mornington Ocean Beaches</i>	0 00	2.5	1.8	1.1	0.4
<i>Cape Schanck, Flinders</i>	0 00	2.5	1.8	1.1	0.4
<i>Seal Rocks, Woolamai (approx)</i>	0 00	2.5	1.8	1.1	0.4
Venus Bay & Waratah Bay (approx)	0 14	2.8	2.4	1.0	0.6
Barwon Heads Bridge	0 15	1.6	1.3	0.5	0.1
<b>Port Phillip Heads</b>	<b>0 00</b>	<b>1.5</b>	<b>1.3</b>	<b>0.6</b>	<b>0.4</b>
Queenscliff Pier	0 30	1.2	0.8	0.6	0.3
No.1 West Channel (Annulus)	0 50	1.2	0.8	0.6	0.3
No.2 South Channel	1 10	0.9	0.6	0.5	0.2
Portsea Pier	1 20	0.9	0.6	0.5	0.2
Swan Island Dock	2 00	0.9	0.6	0.4	0.1
Sorrento Pier	2 10	0.9	0.6	0.5	0.2
No.13 South Channel	2 30	0.9	0.6	0.5	0.2
Rye Pier	2 50	0.9	0.6	0.5	0.2
West Channel Pile Light	3 10	0.9	0.6	0.4	0.1
St Leonards Pier, Portarlington Pier	3 10	0.9	0.6	0.4	0.1
Hovell Pile	3 15	0.9	0.6	0.5	0.2
Rosebud, Dromana, Mornington	3 15	0.9	0.6	0.4	0.1
Frankston, Sandringham, St Kilda	3 15	0.9	0.6	0.4	0.1
Altona	3 15	0.9	0.6	0.5	0.1
Melbourne (Williamstown)	3 20	0.9	0.6	0.5	0.1
Geelong	3 30	1.1	0.7	0.5	0.2

# Port Phillip Heads (Point Lonsdale) Datums

Latitude 38°18'S. Longitude 144°37' E (WGS 84)

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
1.21	Highest recorded tide 12/07/1964 (1962 - 2019)	2.16
0.95	Highest Astronomical Tide (HAT)	1.90
0.62	Mean High Water Springs (MHWS)	1.57
0.36	Mean High Water Neaps (MHWN)	1.31
<b>0.000</b>	<b>Australian Height Datum (AHD)</b>	<b>0.950</b>
-0.27	Mean Low Water Neaps (MLWN)	0.68
-0.53	Mean Low Water Springs (MLWS)	0.42
<b>-0.950</b>	<b>Chart &amp; Prediction Datum</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-1.35	Lowest recorded tide 27/10/1972 (1962 – 2019)	-0.40

Port Phillip

Information supplied by Commonwealth of Australia, Bureau of Meteorology & Australian Hydrographic Office

# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0230	0.85		<b>9</b>	0449	1.65		<b>17</b>	0459	0.90		<b>25</b>	0442	1.57
	0853	1.34			1034	0.41			1047	1.21			1034	0.39
SA	1500	0.28		SU	1657	1.43		MO	1716	0.38		TU	1702	1.43
	2243	1.50			2238	0.39						●	2238	0.48
<b>2</b>	0347	0.89		<b>10</b>	0528	1.59		<b>18</b>	0031	1.45		<b>26</b>	0515	1.53
	0959	1.33			1119	0.38			0600	0.85			1111	0.34
SU	1612	0.22		MO	1755	1.39		TU	1145	1.23		WE	1752	1.43
	2349	1.59		●	2319	0.50			1808	0.35			2321	0.57
<b>3</b>	0504	0.86		<b>11</b>	0605	1.51		<b>19</b>	0115	1.50		<b>27</b>	0550	1.49
	1110	1.35			1201	0.38			0650	0.79			1151	0.29
MO	1722	0.16		TU	1855	1.35		WE	1238	1.26		TH	1848	1.42
●									1854	0.32				
<b>4</b>	0049	1.66		<b>12</b>	0000	0.61		<b>20</b>	0152	1.54		<b>28</b>	0008	0.67
	0611	0.79			0641	1.44			0734	0.72			0630	1.44
TU	1218	1.40		WE	1244	0.39		TH	1326	1.31		FR	1235	0.26
	1826	0.12			1953	1.33			1933	0.30			1952	1.42
<b>5</b>	0145	1.71		<b>13</b>	0045	0.72		<b>21</b>	0229	1.58		<b>29</b>	0100	0.76
	0709	0.70			0719	1.36			0814	0.65			0717	1.39
WE	1318	1.45		TH	1328	0.41		FR	1411	1.35		SA	1327	0.25
	1923	0.12			2051	1.32			2010	0.31			2102	1.42
<b>6</b>	0236	1.73		<b>14</b>	0134	0.81		<b>22</b>	0303	1.60		<b>30</b>	0159	0.85
	0803	0.61			0801	1.30			0850	0.58			0815	1.34
TH	1415	1.48		FR	1416	0.42			1453	1.38			1430	0.26
	2016	0.14			2149	1.33			2045	0.32			2216	1.43
<b>7</b>	0323	1.73		<b>15</b>	0233	0.88		<b>23</b>	0337	1.61		<b>31</b>	0313	0.89
	0856	0.52			0851	1.24			0925	0.52			0928	1.31
FR	1508	1.49		SA	1515	0.43		SU	1535	1.40		MO	1547	0.26
	2107	0.20			2247	1.36			2119	0.36			2328	1.48
<b>8</b>	0408	1.70		<b>16</b>	0345	0.91		<b>24</b>	0409	1.60				
	0946	0.46			0948	1.21			1000	0.45				
SA	1601	1.47		SU	1617	0.41		MO	1617	1.42				
	2154	0.29			2343	1.40			2157	0.41				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**FEBRUARY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0436	0.86		<b>9</b>	0524	1.51		<b>17</b>	0042	1.40		<b>25</b>	0525	1.49
	1050	1.31			1129	0.30			0627	0.79			1132	0.20
TU	1708	0.24		WE	1819	1.42		TH	1215	1.23		FR	1831	1.50
●					2332	0.60	○		1831	0.40			2354	0.67
<b>2</b>	0031	1.54		<b>10</b>	0555	1.44		<b>18</b>	0124	1.46		<b>26</b>	0605	1.44
	0554	0.77			1203	0.32			0714	0.69			1215	0.22
WE	1206	1.36		TH	1905	1.38		FR	1310	1.30		SA	1930	1.44
	1817	0.21							1915	0.38				
<b>3</b>	0129	1.60		<b>11</b>	0011	0.69		<b>19</b>	0201	1.52		<b>27</b>	0040	0.75
	0700	0.66			0628	1.37			0753	0.59			0653	1.38
TH	1311	1.42		FR	1241	0.35			1359	1.38			1305	0.26
	1916	0.21			1954	1.33			1954	0.37			2038	1.39
<b>4</b>	0219	1.64		<b>12</b>	0053	0.77		<b>20</b>	0237	1.56		<b>28</b>	0135	0.82
	0757	0.54			0705	1.30			0829	0.49			0754	1.32
FR	1410	1.48		SA	1322	0.39			1444	1.46			1407	0.32
	2009	0.23			2047	1.30			2031	0.38			2153	1.37
<b>5</b>	0303	1.66		<b>13</b>	0142	0.85		<b>21</b>	0311	1.58				
	0847	0.43			0751	1.24			0902	0.40				
SA	1504	1.51		SU	1413	0.43			1527	1.51				
	2056	0.28			2147	1.29			2109	0.41				
<b>6</b>	0344	1.66		<b>14</b>	0243	0.90		<b>22</b>	0344	1.58				
	0933	0.35			0850	1.19			0938	0.32				
SU	1556	1.52		MO	1516	0.46			1609	1.55				
	2139	0.35			2251	1.30			2149	0.46				
<b>7</b>	0419	1.62		<b>15</b>	0400	0.92		<b>23</b>	0415	1.56				
	1015	0.31			1000	1.16			1015	0.25				
MO	1645	1.50		TU	1631	0.46			1653	1.56				
	2218	0.43			2352	1.34			2230	0.52				
<b>8</b>	0453	1.57		<b>16</b>	0523	0.87		<b>24</b>	0449	1.53				
	1053	0.29			1112	1.18			1052	0.22				
TU	1732	1.47		WE	1738	0.43			1740	1.54				
●	2256	0.52					○		2311	0.59				

Port Phillip

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# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MARCH – 2022**

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0248	0.85		<b>9</b>	0414	1.53		<b>17</b>	0432	0.86	<b>25</b>	0425	1.52
	0915	1.27			1018	0.25			1043	1.17		1031	0.18
TU	1530	0.36		WE	1702	1.56		TH	1648	0.56	FR	1727	1.63
	2305	1.39			2230	0.56			2356	1.34	●	2256	0.63
<b>2</b>	0419	0.81		<b>10</b>	0444	1.48		<b>18</b>	0552	0.76	<b>26</b>	0504	1.48
	1045	1.28			1051	0.27			1155	1.25		1114	0.21
WE	1658	0.37		TH	1738	1.51		FR	1800	0.54	SA	1816	1.55
			●	2304	0.61				○			2338	0.69
<b>3</b>	0010	1.45		<b>11</b>	0515	1.43		<b>19</b>	0043	1.41	<b>27</b>	0548	1.43
	0544	0.71			1125	0.31			0640	0.63		1159	0.27
TH	1202	1.35		FR	1815	1.45		SA	1254	1.37	SU	1914	1.47
●	1810	0.35			2340	0.68			1850	0.51			
<b>4</b>	0106	1.51		<b>12</b>	0547	1.37		<b>20</b>	0124	1.47	<b>28</b>	0024	0.75
	0650	0.57			1200	0.35			0717	0.51		0641	1.36
FR	1308	1.44		SA	1857	1.39		SU	1345	1.49	MO	1248	0.35
	1908	0.35							1933	0.50		2021	1.40
<b>5</b>	0154	1.57		<b>13</b>	0017	0.74		<b>21</b>	0202	1.52	<b>29</b>	0120	0.79
	0743	0.45			0624	1.31			0754	0.39		0750	1.30
SA	1406	1.52		SU	1237	0.40		MO	1431	1.59	TU	1352	0.45
	1958	0.36			1946	1.33			2014	0.50		2131	1.37
<b>6</b>	0235	1.59		<b>14</b>	0100	0.81		<b>22</b>	0238	1.55	<b>30</b>	0239	0.80
	0828	0.35			0708	1.25			0831	0.29		0921	1.27
SU	1458	1.58		MO	1319	0.46		TU	1515	1.67	WE	1516	0.52
	2041	0.40			2045	1.28			2054	0.52		2239	1.37
<b>7</b>	0312	1.59		<b>15</b>	0151	0.87		<b>23</b>	0314	1.56	<b>31</b>	0414	0.74
	0908	0.29			0806	1.19			0910	0.22		1048	1.30
MO	1544	1.60		TU	1413	0.52		WE	1558	1.70	TH	1645	0.55
	2119	0.45			2153	1.27			2134	0.54		2341	1.41
<b>8</b>	0344	1.57		<b>16</b>	0300	0.90		<b>24</b>	0349	1.55			
	0944	0.26			0920	1.15			0950	0.18			
TU	1625	1.59		WE	1523	0.55		TH	1642	1.68			
	2155	0.50			2300	1.29			2215	0.58			

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# PORt PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**APRIL - 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0532	0.62		<b>9</b>	0440	1.43		<b>17</b>	0545	0.56		<b>25</b>	0541	1.43
	1202	1.40			1048	0.35			1234	1.49			1145	0.38
FR	1757	0.55		SA	1735	1.53		SU	1816	0.70		MO	1902	1.52
●			○		2311	0.71	○							
<b>2</b>	0034	1.47		<b>10</b>	0515	1.38		<b>18</b>	0038	1.45		<b>26</b>	0015	0.74
	0630	0.50			1122	0.40			0630	0.43			0642	1.36
SA	1305	1.51		SU	1815	1.47		MO	1327	1.63		TU	1238	0.49
	1854	0.54			2346	0.76			1906	0.67			2004	1.45
<b>3</b>	0120	1.51		<b>11</b>	0552	1.32		<b>19</b>	0122	1.50		<b>27</b>	0117	0.75
	0716	0.39			1156	0.45			0714	0.31			0803	1.31
SU	1359	1.60		MO	1900	1.40		TU	1415	1.74		WE	1341	0.60
	1940	0.54							1950	0.66			2106	1.41
<b>4</b>	0159	1.53		<b>12</b>	0024	0.81		<b>20</b>	0203	1.53		<b>28</b>	0239	0.73
	0756	0.32			0637	1.26			0757	0.23			0932	1.32
MO	1444	1.66		TU	1234	0.52		WE	1500	1.80		TH	1458	0.69
	2019	0.56			1954	1.34			2032	0.65			2206	1.40
<b>5</b>	0233	1.53		<b>13</b>	0110	0.84		<b>21</b>	0244	1.55		<b>29</b>	0400	0.66
	0832	0.28			0735	1.21			0841	0.18			1049	1.38
TU	1522	1.69		WE	1322	0.59		TH	1545	1.81		FR	1620	0.74
	2055	0.58			2056	1.31			2115	0.66			2303	1.42
<b>6</b>	0305	1.51		<b>14</b>	0211	0.85		<b>22</b>	0324	1.55		<b>30</b>	0507	0.56
	0907	0.27			0852	1.19			0927	0.18			1156	1.49
WE	1557	1.68		TU	1424	0.66		FR	1630	1.77		SA	1734	0.75
	2129	0.60			2200	1.31			2157	0.67			2355	1.44
<b>7</b>	0336	1.49		<b>15</b>	0327	0.80		<b>23</b>	0405	1.53				
	0942	0.29			1017	1.23			1012	0.22				
TH	1629	1.64		FR	1542	0.71		SA	1715	1.69				
	2202	0.63			2300	1.34	○		2240	0.69				
<b>8</b>	0407	1.47		<b>16</b>	0448	0.70		<b>24</b>	0450	1.49				
	1015	0.31			1133	1.34			1058	0.28				
FR	1700	1.60		SA	1710	0.71			1806	1.60				
	2236	0.66			2352	1.39			2325	0.71				

Port Phillip

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# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0559	0.47		<b>9</b>	0447	1.38		<b>17</b>	0544	0.37	<b>25</b>	0015	0.69	
SU	1253	1.59		MO	1046	0.47		TU	1303	1.73	WE	0652	1.39	
●	1831	0.74		MO	1744	1.55		TU	1832	0.84	WE	1228	0.61	
	●	2318	0.78		○	2318	0.78					1941	1.53	
<b>2</b>	0040	1.46		<b>10</b>	0528	1.34		<b>18</b>	0041	1.49	<b>26</b>	0117	0.67	
	0641	0.40			1118	0.53			0635	0.27		0815	1.37	
MO	1341	1.68		TU	1825	1.49		WE	1355	1.82	TH	1324	0.73	
	1915	0.73			2356	0.80			1922	0.81		2033	1.48	
<b>3</b>	0119	1.47		<b>11</b>	0615	1.29		<b>19</b>	0130	1.53	<b>27</b>	0226	0.64	
	0719	0.35			1156	0.59			0726	0.22		0930	1.40	
TU	1421	1.72		WE	1912	1.44			TH	1443	1.86	FR	1430	0.83
	1953	0.72							2009	0.77		2127	1.44	
<b>4</b>	0154	1.48		<b>12</b>	0039	0.80		<b>20</b>	0217	1.56	<b>28</b>	0331	0.59	
	0756	0.33			0715	1.26			0816	0.20		1036	1.46	
WE	1456	1.74		TH	1243	0.68			1530	1.85	SA	1543	0.90	
	2028	0.72			2004	1.40			2054	0.74		2219	1.42	
<b>5</b>	0228	1.48		<b>13</b>	0132	0.77		<b>21</b>	0303	1.56	<b>29</b>	0430	0.53	
	0831	0.33			0830	1.27			0906	0.23		1138	1.54	
TH	1528	1.73		FR	1343	0.77			1618	1.80	SU	1657	0.92	
	2101	0.71			2100	1.38			2141	0.72		2309	1.41	
<b>6</b>	0300	1.48		<b>14</b>	0236	0.71		<b>22</b>	0352	1.54	<b>30</b>	0520	0.48	
	0907	0.35			0952	1.34			0956	0.29		1230	1.62	
FR	1558	1.70		SA	1456	0.84			1706	1.73	MO	1757	0.90	
	2135	0.72			2158	1.39			2229	0.71	●	2356	1.42	
<b>7</b>	0335	1.46		<b>15</b>	0344	0.61		<b>23</b>	0443	1.50	<b>31</b>	0603	0.43	
	0942	0.38			1105	1.46			1045	0.38		1315	1.69	
SA	1630	1.66		SU	1618	0.88			1756	1.66	TU	1843	0.88	
	2210	0.74			2255	1.41			●	2319	0.70			
<b>8</b>	0411	1.43		<b>16</b>	0447	0.49		<b>24</b>	0540	1.44				
	1015	0.42			1208	1.61			1135	0.49				
SU	1705	1.60		MO	1734	0.87			1848	1.59				
	2244	0.76		○	2349	1.45								

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# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0037	1.43	<b>9</b>	0558	1.34	<b>17</b>	0102	1.53	<b>25</b>	0154	0.55
WE	0645	0.40	TH	1128	0.66	FR	0703	0.23	SA	0908	1.45
	1355	1.72		1834	1.52		1427	1.84		1353	0.90
	1922	0.85					1946	0.82		2039	1.45
<b>2</b>	0116	1.44	<b>10</b>	0013	0.71	<b>18</b>	0158	1.56	<b>26</b>	0248	0.54
TH	0723	0.39	FR	0658	1.34	SA	0759	0.24	SU	1009	1.48
	1429	1.73		1215	0.75		1517	1.83		1456	0.97
	1959	0.82		1918	1.48		2038	0.76		2128	1.40
<b>3</b>	0154	1.46	<b>11</b>	0100	0.66	<b>19</b>	0251	1.57	<b>27</b>	0345	0.52
FR	0800	0.39	SA	0809	1.37	SU	0852	0.28	MO	1107	1.53
	1500	1.73		1314	0.85		1605	1.80		1606	1.00
	2035	0.80		2008	1.45		2130	0.70		2218	1.38
<b>4</b>	0231	1.46	<b>12</b>	0156	0.59	<b>20</b>	0344	1.56	<b>28</b>	0438	0.50
SA	0837	0.41	SU	0924	1.44	MO	0945	0.36	TU	1200	1.57
	1532	1.71		1421	0.93		1652	1.75		1712	0.99
	2111	0.79		2101	1.43		2222	0.65		2309	1.37
<b>5</b>	0309	1.45	<b>13</b>	0258	0.50	<b>21</b>	0440	1.52	<b>29</b>	0528	0.47
SU	0912	0.44	MO	1034	1.54	TU	1034	0.46	WE	1246	1.61
	1606	1.68		1537	0.98		1738	1.70		1806	0.96
	2146	0.78		2200	1.43	O	2315	0.61	●	2358	1.38
<b>6</b>	0346	1.43	<b>14</b>	0402	0.41	<b>22</b>	0544	1.48	<b>30</b>	0614	0.44
MO	0944	0.48	TU	1140	1.65	WE	1123	0.57		1328	1.64
	1641	1.65		1653	0.98		1823	1.64	TH	1852	0.91
	2221	0.78	O	2301	1.45						
<b>7</b>	0426	1.40	<b>15</b>	0506	0.33	<b>23</b>	0008	0.58			
TU	1014	0.52	WE	1240	1.75		0656	1.45			
	1716	1.61		1759	0.95	TH	1210	0.69			
	2256	0.77					1907	1.57			
<b>8</b>	0508	1.36	<b>16</b>	0003	1.49	<b>24</b>	0100	0.56			
WE	1047	0.58	TH	0607	0.26		0805	1.44			
	1754	1.56		1335	1.81	FR	1300	0.80			
●	2331	0.75		1855	0.89		1952	1.51			

Port Phillip

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# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0044	1.40		<b>9</b>	0641	1.43		<b>17</b>	0146	1.55		<b>25</b>	0158	0.50
	0657	0.43			1158	0.78			0748	0.27			0928	1.44
FR	1403	1.66		SA	1838	1.52		SU	1500	1.78		MO	1408	0.96
	1933	0.87							2028	0.68			2032	1.36
<b>2</b>	0127	1.42		<b>10</b>	0033	0.52		<b>18</b>	0244	1.58		<b>26</b>	0252	0.51
	0737	0.42			0745	1.45			0842	0.32			1024	1.44
SA	1438	1.68		SU	1251	0.87		MO	1545	1.77		TU	1512	1.00
	2013	0.83			1923	1.48			2121	0.59			2126	1.32
<b>3</b>	0208	1.43		<b>11</b>	0123	0.46		<b>19</b>	0340	1.58		<b>27</b>	0353	0.52
	0814	0.43			0854	1.49			0931	0.40			1120	1.46
SU	1512	1.68		MO	1351	0.96		TU	1629	1.74		WE	1624	1.01
	2051	0.79			2015	1.45			2213	0.52			2224	1.30
<b>4</b>	0249	1.43		<b>12</b>	0221	0.41		<b>20</b>	0437	1.56		<b>28</b>	0453	0.50
	0847	0.46			1003	1.54			1018	0.49			1214	1.49
MO	1545	1.67		TU	1500	1.01		WE	1709	1.70		TH	1730	0.97
	2128	0.76			2115	1.43			2300	0.47			2322	1.31
<b>5</b>	0329	1.43		<b>13</b>	0329	0.36		<b>21</b>	0538	1.53		<b>29</b>	0547	0.47
	0918	0.50			1113	1.61			1102	0.60			1300	1.53
TU	1617	1.66		WE	1616	1.01		TH	1747	1.63		FR	1826	0.91
	2202	0.72			2225	1.44		●	2345	0.45				
<b>6</b>	0410	1.42		<b>14</b>	0441	0.31		<b>22</b>	0638	1.49		<b>30</b>	0016	1.33
	0951	0.55			1217	1.67			1145	0.70			0635	0.45
WE	1650	1.63		TH	1729	0.96		FR	1825	1.56		SA	1339	1.57
	2236	0.68		○	2339	1.46							1914	0.85
<b>7</b>	0454	1.42		<b>15</b>	0549	0.27		<b>23</b>	0028	0.46		<b>31</b>	0105	1.37
	1028	0.61			1316	1.72			0736	1.47			0717	0.44
TH	1724	1.60		FR	1832	0.88		SA	1228	0.80		SU	1414	1.60
	2312	0.63							1903	1.49			1955	0.78
<b>8</b>	0544	1.42		<b>16</b>	0046	1.51		<b>24</b>	0111	0.48				
	1110	0.69			0650	0.25			0831	1.45				
FR	1759	1.56		SA	1410	1.76		SU	1315	0.89				
	2349	0.57			1930	0.78			1945	1.42				

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# PORt PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S LONG 144° 37' E TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**AUGUST - 2022**

	Time	m		Time	m		Time	m		Time	m		
<b>1</b> MO	0151	1.40		<b>9</b>	0056	0.36		<b>17</b>	0333	1.62	<b>25</b>	0300	0.53
	0754	0.44			0826	1.47			0915	0.43		1033	1.34
	1446	1.63		TU	1324	0.92		WE	1556	1.69		1534	0.97
	2032	0.71			1939	1.42			2150	0.37		2143	1.23
<b>2</b> TU	0234	1.44		<b>10</b>	0153	0.36		<b>18</b>	0426	1.61	<b>26</b>	0414	0.53
	0828	0.46			0937	1.47			0958	0.51		1133	1.37
	1519	1.64		WE	1430	0.97		TH	1631	1.64		1657	0.93
	2108	0.64			2045	1.39			2231	0.34		2253	1.24
<b>3</b> WE	0316	1.46		<b>11</b>	0304	0.35		<b>19</b>	0515	1.57	<b>27</b>	0520	0.51
	0901	0.50			1050	1.50			1037	0.59		1224	1.41
	1550	1.64		TH	1549	0.97		FR	1705	1.58		1804	0.85
	2141	0.58			2206	1.38		○	2310	0.35		2356	1.28
<b>4</b> TH	0358	1.48		<b>12</b>	0426	0.34		<b>20</b>	0604	1.52	<b>28</b>	0615	0.49
	0938	0.55			1158	1.55			1115	0.67		1305	1.47
	1621	1.62		FR	1710	0.89		SA	1739	1.52		1853	0.76
	2215	0.52		○	2329	1.42			2347	0.38			
<b>5</b> FR	0441	1.49		<b>13</b>	0541	0.31		<b>21</b>	0653	1.47	<b>29</b>	0050	1.35
	1017	0.61			1257	1.62			1154	0.75		0658	0.47
	1653	1.59		SA	1820	0.77		SU	1814	1.45		1341	1.52
	2249	0.46										1931	0.66
<b>6</b> SA	0529	1.50		<b>14</b>	0039	1.48		<b>22</b>	0026	0.42	<b>30</b>	0139	1.42
	1100	0.68			0644	0.30			0742	1.41		0736	0.47
	1727	1.55		SU	1349	1.67		MO	1235	0.83		1415	1.57
	2327	0.42			1921	0.64			1853	1.38		2006	0.56
<b>7</b> SU	0620	1.49		<b>15</b>	0141	1.55		<b>23</b>	0108	0.46	<b>31</b>	0223	1.49
	1144	0.76			0739	0.32			0834	1.37		0811	0.48
	1803	1.51		MO	1435	1.70		TU	1322	0.89		1447	1.59
					2015	0.52			1939	1.31		2039	0.47
<b>8</b> MO	0008	0.38		<b>16</b>	0239	1.60		<b>24</b>	0158	0.50			
	0719	1.48			0830	0.36			0932	1.34			
	1230	0.85		TU	1517	1.71		WE	1419	0.95			
	1846	1.46			2105	0.43			2036	1.26			

Port Phillip

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Datum is Lowest Astronomical Tide

# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0304	1.55		<b>9</b>	0248	0.41		<b>17</b>	0444	1.62	<b>25</b>	0444	0.60
	0847	0.51			1030	1.40			1009	0.58		1135	1.33
TH	1519	1.59		FR	1534	0.86		SA	1624	1.51	SU	1735	0.75
	2113	0.40			2206	1.33			2230	0.29		2339	1.27
<b>2</b>	0345	1.58		<b>10</b>	0418	0.42		<b>18</b>	0523	1.55	<b>26</b>	0548	0.58
	0926	0.55			1134	1.45			1045	0.64		1220	1.39
FR	1551	1.57		SA	1702	0.75		SU	1658	1.46	MO	1820	0.63
	2147	0.35		○	2329	1.39		●	2307	0.33			
<b>3</b>	0427	1.59		<b>11</b>	0535	0.40		<b>19</b>	0601	1.48	<b>27</b>	0035	1.38
	1005	0.60			1231	1.52			1122	0.70		0635	0.56
SA	1624	1.55		SU	1812	0.61		MO	1731	1.39	TU	1300	1.45
	2224	0.31							2344	0.39		1856	0.51
<b>4</b>	0512	1.57		<b>12</b>	0038	1.49		<b>20</b>	0645	1.40	<b>28</b>	0124	1.50
	1045	0.66			0636	0.39			1200	0.76		0715	0.54
SU	1658	1.51		MO	1321	1.58		TU	1810	1.33	WE	1336	1.49
○	2303	0.29			1907	0.47						1930	0.40
<b>5</b>	0600	1.53		<b>13</b>	0138	1.59		<b>21</b>	0023	0.45	<b>29</b>	0208	1.60
	1127	0.73			0728	0.40			0734	1.33		0752	0.54
MO	1736	1.47		TU	1404	1.61		WE	1242	0.82	TH	1412	1.52
	2345	0.30			1954	0.36			1855	1.26		2004	0.31
<b>6</b>	0656	1.47		<b>14</b>	0231	1.65		<b>22</b>	0107	0.51	<b>30</b>	0250	1.67
	1210	0.79			0813	0.43			0833	1.28		0830	0.55
TU	1821	1.42		WE	1444	1.62		TH	1333	0.87	FR	1446	1.53
					2037	0.29			1955	1.20		2041	0.25
<b>7</b>	0033	0.32		<b>15</b>	0320	1.68		<b>23</b>	0202	0.56			
	0802	1.42			0854	0.48			0938	1.26			
WE	1300	0.85		TH	1519	1.60		FR	1442	0.89			
	1919	1.36			2116	0.26			2110	1.17			
<b>8</b>	0131	0.37		<b>16</b>	0403	1.66		<b>24</b>	0316	0.60			
	0916	1.39			0932	0.53			1041	1.28			
TH	1407	0.89		FR	1552	1.56		SA	1618	0.85			
	2035	1.32			2155	0.26			2230	1.20			

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# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S      LONG 144° 37' E      TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER - 2022

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0330	1.69		<b>9</b>	0408	0.54	<b>17</b>	0443	1.59	<b>25</b>	0505	0.71
	0909	0.57			1104	1.39		1016	0.62		1126	1.33
SA	1522	1.52	SU	1654	0.59	MO	1622	1.41	TU	1730	0.52	
	2119	0.21		2331	1.42		2229	0.33				
<b>2</b>	0412	1.68	<b>10</b>	0524	0.54	<b>18</b>	0517	1.51	<b>26</b>	0015	1.46	
	0948	0.60		1159	1.44		1052	0.66		0603	0.69	
SU	1558	1.50	MO	1754	0.45	TU	1658	1.35	WE	1213	1.38	
	2200	0.21	(○)			(○)	2304	0.39		1810	0.39	
<b>3</b>	0455	1.63	<b>11</b>	0035	1.54	<b>19</b>	0557	1.43	<b>27</b>	0104	1.59	
	1028	0.64		0624	0.53		1129	0.71		0647	0.66	
MO	1635	1.47	TU	1247	1.49	WE	1737	1.29	TH	1255	1.43	
(○)	2242	0.23		1843	0.34		2341	0.45		1848	0.28	
<b>4</b>	0543	1.55	<b>12</b>	0130	1.64	<b>20</b>	0642	1.36	<b>28</b>	0149	1.70	
	1109	0.69		0712	0.53		1208	0.75		0729	0.63	
TU	1717	1.42	WE	1330	1.52	TH	1823	1.22	FR	1336	1.46	
	2326	0.28		1925	0.25					1929	0.19	
<b>5</b>	0637	1.46	<b>13</b>	0217	1.71	<b>21</b>	0021	0.53	<b>29</b>	0232	1.76	
	1154	0.73		0753	0.53		0736	1.30		0809	0.61	
WE	1809	1.36	TH	1407	1.52	FR	1255	0.79	SA	1416	1.49	
				2004	0.22		1924	1.17		2011	0.15	
<b>6</b>	0016	0.35	<b>14</b>	0259	1.73	<b>22</b>	0111	0.60	<b>30</b>	0315	1.77	
	0743	1.39		0830	0.55		0837	1.26		0849	0.61	
TH	1246	0.77	FR	1442	1.51	SA	1355	0.79	SU	1457	1.49	
	1915	1.30		2041	0.21		2043	1.15		2055	0.14	
<b>7</b>	0117	0.44	<b>15</b>	0336	1.71	<b>23</b>	0214	0.67	<b>31</b>	0359	1.73	
	0856	1.35		0906	0.57		0939	1.26		0930	0.61	
FR	1358	0.77	SA	1515	1.49	SU	1515	0.75	MO	1538	1.48	
	2045	1.27		2117	0.23		2206	1.21		2139	0.17	
<b>8</b>	0238	0.51	<b>16</b>	0410	1.66	<b>24</b>	0336	0.72				
	1003	1.35		0942	0.59		1035	1.28				
SA	1532	0.71	SU	1548	1.45	MO	1639	0.65				
	2215	1.32		2153	0.28		2317	1.32				

Port Phillip

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**NOVEMBER – 2022**

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0443	1.66		<b>9</b>	0025	1.58		<b>17</b>	0523	1.48	<b>25</b>	0040	1.64
TU	1012	0.62		WE	0604	0.68		1102	0.67		0615	0.78	
●	1621	1.44		1210	1.40		TH	1712	1.27	FR	1214	1.37	
	2225	0.23		1813	0.28			2303	0.47		1812	0.20	
<b>2</b>	0530	1.57		<b>10</b>	0115	1.67		<b>18</b>	0603	1.42	<b>26</b>	0129	1.73
WE	1056	0.64		0651	0.66		FR	1141	0.68	SA	0702	0.73	
	1710	1.39		1253	1.42		1800	1.22		1304	1.42		
	2313	0.32		1854	0.23		2342	0.55		1900	0.13		
<b>3</b>	0624	1.48		<b>11</b>	0158	1.72		<b>19</b>	0647	1.36	<b>27</b>	0216	1.78
TH	1145	0.65		0730	0.64		SA	1223	0.68	SU	0746	0.68	
	1808	1.33		1331	1.43			1859	1.18		1352	1.46	
				1932	0.21						1948	0.11	
<b>4</b>	0005	0.42		<b>12</b>	0235	1.73		<b>20</b>	0028	0.64	<b>28</b>	0302	1.78
FR	0725	1.41		0806	0.62		SU	0738	1.32	MO	0830	0.64	
	1243	0.65		1408	1.44			1315	0.66		1439	1.48	
	1926	1.28		2010	0.22			2015	1.19		2037	0.12	
<b>5</b>	0107	0.54		<b>13</b>	0309	1.71		<b>21</b>	0126	0.73	<b>29</b>	0347	1.74
SA	0829	1.37		0842	0.62		MO	0832	1.29	TU	0915	0.60	
	1358	0.63		1444	1.43			1415	0.61		1526	1.47	
	2100	1.29		2046	0.25			2135	1.26		2126	0.17	
<b>6</b>	0222	0.64		<b>14</b>	0340	1.66		<b>22</b>	0238	0.81	<b>30</b>	0433	1.68
SU	0930	1.35		0916	0.62		MO	0930	1.28	WE	1001	0.57	
	1521	0.56		1518	1.41			1523	0.53		1615	1.44	
	2218	1.36		2122	0.29			2245	1.37		2215	0.25	
<b>7</b>	0345	0.69		<b>15</b>	0413	1.61		<b>23</b>	0402	0.84			
MO	1028	1.36		0952	0.63		TU	1026	1.30				
	1631	0.46		1554	1.37		WE	1626	0.41				
	2327	1.47		2157	0.34			2346	1.51				
<b>8</b>	0502	0.70		<b>16</b>	0446	1.55		<b>24</b>	0518	0.82			
TU	1121	1.38		1027	0.65		WE	1121	1.33				
○	1727	0.36		1631	1.32		TH	1721	0.30				
			●	2230	0.40								

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When daylight saving time is in force, add one hour to times

# PORT PHILLIP HEADS (PT.LONSDALE)

LAT 38° 18' S    LONG 144° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**DECEMBER – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0520	1.61		<b>9</b>	0053	1.62		<b>17</b>	0531	1.48		<b>25</b>	0110	1.68
	1050	0.55			0623	0.77			1119	0.58			0634	0.80
TH	1710	1.39		FR	1216	1.34		SA	1741	1.26		SU	1238	1.39
●	2304	0.36			1824	0.26			2313	0.56			1840	0.12
<b>2</b>	0609	1.53		<b>10</b>	0135	1.66		<b>18</b>	0609	1.44		<b>26</b>	0201	1.73
	1144	0.53			0705	0.73			1157	0.55			0726	0.71
FR	1815	1.34		SA	1259	1.35		SU	1837	1.25		MO	1334	1.44
	2357	0.49			1905	0.25			2358	0.65			1934	0.11
<b>3</b>	0700	1.47		<b>11</b>	0213	1.67		<b>19</b>	0649	1.39		<b>27</b>	0250	1.74
	1242	0.51			0744	0.69			1240	0.51			0815	0.63
SA	1938	1.32		SU	1339	1.37		MO	1944	1.27		TU	1429	1.48
					1945	0.25						2027	0.13	
<b>4</b>	0052	0.61		<b>12</b>	0246	1.66		<b>20</b>	0051	0.76		<b>28</b>	0337	1.73
	0754	1.41			0821	0.66			0735	1.34			0906	0.54
SU	1345	0.48		MO	1417	1.37		TU	1330	0.46		WE	1521	1.49
	2057	1.34			2023	0.27			2056	1.32			2118	0.19
<b>5</b>	0155	0.73		<b>13</b>	0318	1.63		<b>21</b>	0155	0.85		<b>29</b>	0421	1.69
	0848	1.36			0858	0.64			0829	1.31			0957	0.47
MO	1452	0.44		TU	1456	1.37		WE	1427	0.40		TH	1615	1.48
	2206	1.40			2059	0.30			2206	1.41			2208	0.28
<b>6</b>	0307	0.80		<b>14</b>	0351	1.60		<b>22</b>	0309	0.91		<b>30</b>	0504	1.65
	0944	1.33			0933	0.63			0926	1.29			1048	0.41
TU	1555	0.39		WE	1533	1.35		TH	1531	0.33		FR	1714	1.44
	2309	1.48			2131	0.35			2313	1.50		●	2256	0.40
<b>7</b>	0425	0.83		<b>15</b>	0423	1.57		<b>23</b>	0428	0.91		<b>31</b>	0547	1.58
	1038	1.32			1009	0.61			1030	1.30			1138	0.37
WE	1651	0.34		TH	1613	1.32		FR	1638	0.25		SA	1820	1.41
					2202	0.41						2343	0.52	
<b>8</b>	0005	1.56		<b>16</b>	0457	1.53		<b>24</b>	0015	1.60				
	0531	0.81			1044	0.60			0537	0.87				
TH	1130	1.32		FR	1654	1.29		SA	1135	1.33				
●	1740	0.29		●	2235	0.48			1742	0.18				

Port Phillip

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# **The Rip (Port Phillip Bay Entrance) – Tidal Stream Predictions**

Latitude 38° 18' S Longitude 144° 38' E (WGS84)

The Rip is the narrow entrance connecting Port Phillip Bay to Bass Strait. It is considered one of the most dangerous sea passages in the world and should only be navigated by experienced mariners.

Commercial shipping from Geelong and Melbourne transit The Rip 24 hours a day all year round and require clear passage in and out of the narrow entrance. It is your responsibility to “Keep Clear” of shipping at all times.

Due to the narrowness of The Rip and the large volume of water that flows in and out of Port Phillip Bay, tidal streams can flow up to a speed of 9 knots in extreme conditions. Under normal conditions tidal streams generally flow between 3 to 6 knots.

## **Tidal Stream Predictions**

The Rip Tidal Stream prediction tables provide the following information:

- 1) Maximum Ebb Stream (in knots) shown as a Negative (-)  
Direction 200°
- 2) Maximum Flood Stream (in knots) shown as Positive (+)  
Direction 038°
- 3) Slack Water Times

Please note these predictions are approximate and can vary significantly because of meteorological events.

# **Point Lonsdale Lighthouse – Tidal Stream Signals and Lights**

For further information regarding tide predictions and tidal streams please contact Lonsdale VTS on VHF Channel 12.

At night Point Lonsdale Lighthouse displays the following tide stream signals below the main light:

## **Flood Stream Lights**

Flood Stream is shown as one fixed green light for the first half of the flood and two fixed vertical green lights for the second half of the flood.

## **Ebb Stream Lights**

Ebb Stream is shown as one fixed red light for the first half of the ebb and two fixed vertical red lights for the second half of the ebb.

# The Rip Tidal Datums - Nepean Bank

Latitude 38° 17½' S Longitude 144° 38'E (WGS84)

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
0.35	Highest Recorded Tide – 26/04/2009 Derived from Lorne (1993 – 2016)	1.60
0.72	Highest Astronomical Tide (HAT)	1.97
0.51	Mean High Water Springs (MHWS)	1.76
0.31	Mean High Water Neaps (MHWN)	1.56
<b>0.000</b>	<b>Australian Height Datum</b>	<b>1.250</b>
-0.31	Mean Low Water Neaps (MLWN)	0.94
-0.51	Mean Low Water Springs (MLWS)	0.74
<b>-1.250</b>	<b>Chart &amp; Prediction Datum (Nepean Bank)</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-1.69	Lowest recorded tide 27/11/2003 Lorne (1993 – 2016)	-0.44

Values shown are prepared from the best available information  
Only M2 and S2 values used. © Port Of Melbourne Corporation

# The Rip Tidal Datums - Rip Bank

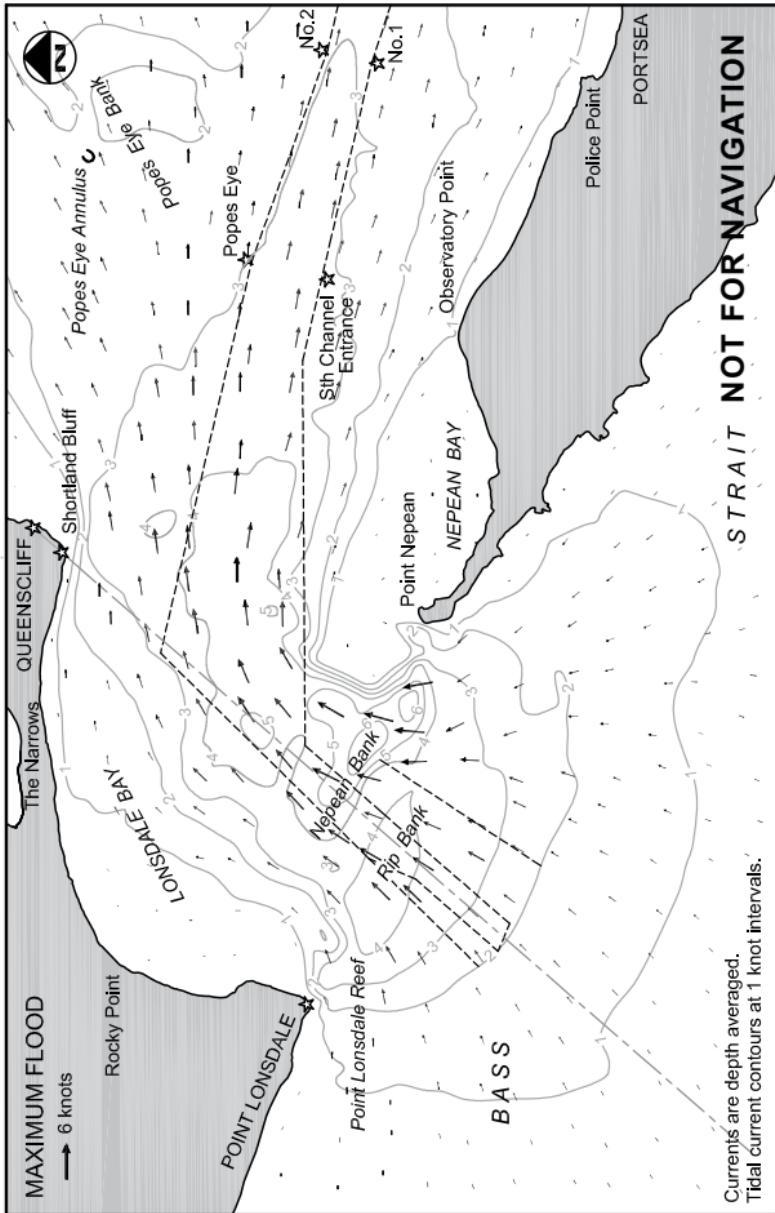
Latitude 38° 18' S Longitude 144° 37½'E (WGS84)

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
1.52	Highest Recorded Tide – 19/06/2004 Derived from Lorne (1993 – 2016)	2.98
1.41	Highest Astronomical Tide (HAT)	2.87
1.04	Mean High Water Springs (MHWS)	2.50
0.34	Mean High Water Neaps (MHWN)	1.80
<b>0.000</b>	<b>Australian Height Datum</b>	<b>1.460</b>
-0.36	Mean Low Water Neaps (MLWN)	1.1
-1.06	Mean Low Water Springs (MLWS)	0.40
<b>-1.460</b>	<b>Chart &amp; Prediction Datum (Rip Bank)</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-1.62	Lowest recorded tide 27/11/2003 Lorne (1993 – 2016)	-0.16

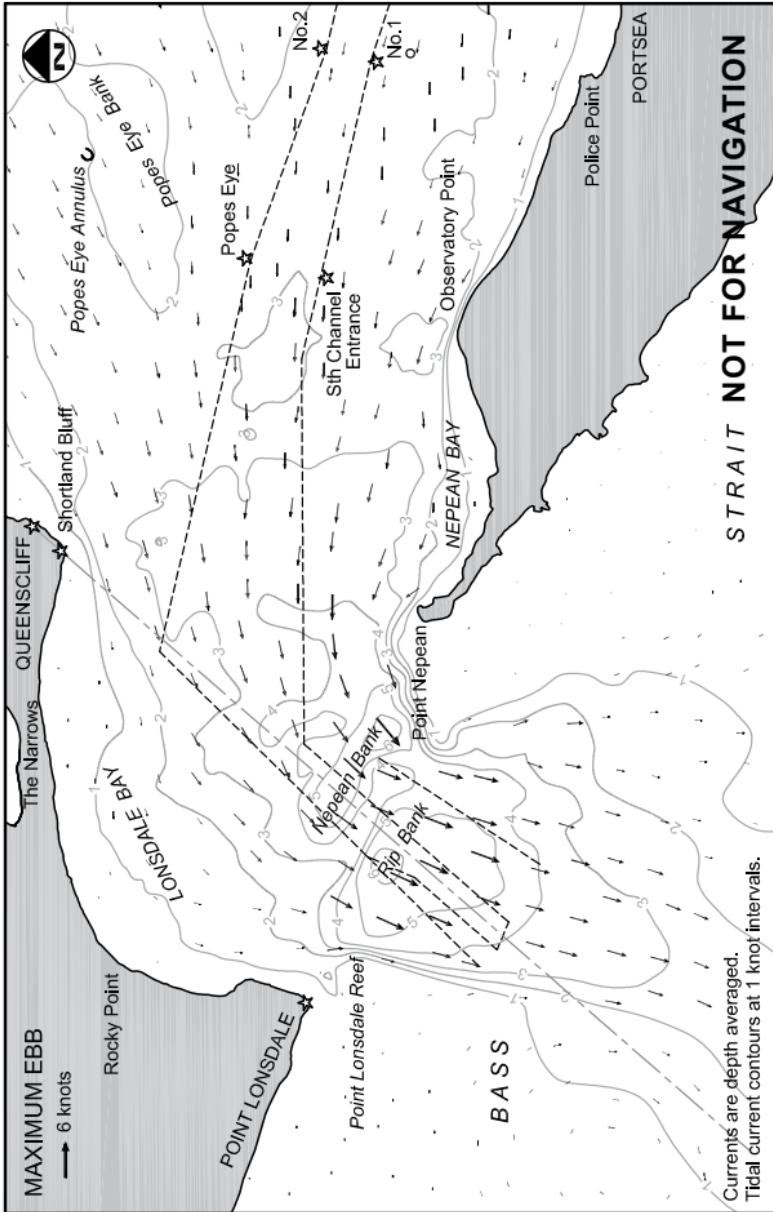
The Rip

Values shown are prepared from the best available information  
Only M2 and S2 values used. © Port Of Melbourne Corporation

# Port Phillip Heads current vector diagram - Flood



# Port Phillip Heads current vector diagram - Ebb



# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**January - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0229	1.27	1.18	<b>9</b>	0422	2.21	1.54	<b>17</b>	0501	1.31	1.21	<b>25</b>	0421	2.16	1.51
	0840	1.95	1.64		1000	0.39	0.41		1034	1.80	1.59		1007	0.45	0.48
SA	1443	0.41	0.38	SU	1645	2.01	1.45	MO	1645	0.67	0.60	TU	1652	2.00	1.41
	2225	2.19	1.59		2214	0.52	0.53		2359	2.04	1.49	●	2224	0.74	0.73
<b>2</b>	0340	1.29	1.20	<b>10</b>	0500	2.13	1.52	<b>18</b>	0557	1.23	1.16	<b>26</b>	0456	2.12	1.52
	0945	1.97	1.68		1042	0.37	0.39		1129	1.82	1.59		1049	0.40	0.43
SU	1550	0.35	0.33	MO	1738	1.95	1.40	TU	1735	0.62	0.56	WE	1749	2.01	1.40
	2325	2.26	1.62	●	2259	0.69	0.66	○					2310	0.89	0.87
<b>3</b>	0452	1.23	1.15	<b>11</b>	0536	2.05	1.51	<b>19</b>	0040	2.09	1.51	<b>27</b>	0531	2.07	1.54
	1051	2.00	1.70		1124	0.39	0.40		0637	1.13	1.08		1133	0.37	0.40
MO	1658	0.27	0.27	TU	1833	1.91	1.39	WE	1220	1.85	1.58	TH	1849	2.03	1.42
●					2346	0.86	0.81		1817	0.56	0.51				
<b>4</b>	0023	2.32	1.62	<b>12</b>	0613	1.97	1.51	<b>20</b>	0118	2.14	1.52	<b>28</b>	0001	1.04	0.99
	0558	1.10	1.04		1206	0.45	0.43		0711	1.00	0.98		0610	2.02	1.57
TU	1158	2.04	1.70	WE	1928	1.88	1.38	TH	1306	1.89	1.56	FR	1221	0.37	0.39
	1800	0.20	0.22						1857	0.50	0.47		1951	2.05	1.46
<b>5</b>	0118	2.35	1.60	<b>13</b>	0036	1.03	0.95	<b>21</b>	0155	2.18	1.52	<b>29</b>	0057	1.17	1.10
	0654	0.93	0.89		0653	1.90	1.52		0742	0.88	0.87		0659	1.98	1.60
WE	1303	2.08	1.67	TH	1250	0.53	0.48	FR	1350	1.93	1.53	SA	1315	0.39	0.40
	1857	0.17	0.21		2025	1.87	1.39		1937	0.47	0.45		2055	2.08	1.48
<b>6</b>	0210	2.35	1.58	<b>14</b>	0131	1.18	1.07	<b>22</b>	0232	2.20	1.52	<b>30</b>	0159	1.26	1.17
	0744	0.75	0.73		0741	1.84	1.53		0815	0.75	0.75		0806	1.95	1.63
TH	1403	2.10	1.62	FR	1339	0.61	0.53	SA	1433	1.96	1.50	SU	1417	0.41	0.42
	1950	0.19	0.24		2122	1.89	1.42		2017	0.47	0.47		2200	2.10	1.49
<b>7</b>	0258	2.32	1.56	<b>15</b>	0234	1.29	1.16	<b>23</b>	0309	2.21	1.52	<b>31</b>	0309	1.28	1.20
	0831	0.59	0.59		0838	1.81	1.55		0850	0.63	0.65		0921	1.94	1.65
FR	1459	2.09	1.57	SA	1437	0.67	0.59	SU	1516	1.98	1.46	MO	1529	0.41	0.43
	2040	0.26	0.30		2220	1.93	1.44		2058	0.51	0.52		2304	2.14	1.49
<b>8</b>	0342	2.28	1.55	<b>16</b>	0347	1.34	1.22	<b>24</b>	0346	2.19	1.51				
	0916	0.47	0.48		0937	1.79	1.57		0927	0.53	0.56				
SA	1552	2.06	1.51	SU	1544	0.69	0.61	MO	1602	1.99	1.43				
	2128	0.38	0.40		2313	1.98	1.47		2140	0.61	0.61				

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When daylight saving time is in force, add one hour to times

# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**February - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0424	1.22	1.15	<b>9</b>	0458	2.03	1.49	<b>17</b>	0007	2.00	1.45	<b>25</b>	0507	2.06	1.53
	1036	1.95	1.65		1049	0.33	0.38		0603	1.09	1.05		1108	0.25	0.32
TU	1642	0.38	0.40	WE	1756	1.93	1.34	TH	1159	1.83	1.51	FR	1828	2.10	1.44
					2316	0.86	0.83		1755	0.64	0.58		2343	0.99	0.97
●															
<b>2</b>	0004	2.18	1.48	<b>10</b>	0530	1.96	1.49	<b>18</b>	0048	2.06	1.47	<b>26</b>	0548	2.01	1.55
	0535	1.06	1.02		1127	0.42	0.44		0637	0.92	0.92		1157	0.32	0.37
WE	1148	1.99	1.63	TH	1844	1.89	1.34	FR	1248	1.89	1.50	SA	1926	2.06	1.43
	1748	0.33	0.37						1838	0.57	0.53				
<b>3</b>	0059	2.21	1.47	<b>11</b>	0000	1.02	0.96	<b>19</b>	0126	2.11	1.47	<b>27</b>	0037	1.10	1.05
	0635	0.84	0.84		0603	1.89	1.50		0711	0.75	0.78		0641	1.95	1.56
TH	1254	2.04	1.59	FR	1207	0.52	0.50	SA	1335	1.97	1.48	SU	1252	0.41	0.44
	1845	0.30	0.34		1936	1.85	1.35		1920	0.52	0.51		2029	2.02	1.43
<b>4</b>	0149	2.22	1.46	<b>12</b>	0047	1.18	1.08	<b>20</b>	0205	2.15	1.48	<b>28</b>	0137	1.17	1.10
	0725	0.63	0.66		0643	1.83	1.50		0745	0.58	0.63		0755	1.90	1.56
FR	1353	2.08	1.54	SA	1251	0.63	0.58	SU	1419	2.04	1.46	MO	1357	0.50	0.51
	1937	0.30	0.35		2032	1.83	1.37		2002	0.51	0.52		2135	2.00	1.42
<b>5</b>	0234	2.22	1.47	<b>13</b>	0141	1.29	1.16	<b>21</b>	0242	2.17	1.48				
	0810	0.44	0.51		0741	1.77	1.51		0822	0.43	0.50				
SA	1446	2.10	1.49	SU	1344	0.72	0.64	MO	1504	2.09	1.45				
	2025	0.35	0.40		2132	1.84	1.39		2043	0.54	0.57				
<b>6</b>	0314	2.20	1.47	<b>14</b>	0248	1.35	1.21	<b>22</b>	0319	2.16	1.49				
	0852	0.32	0.41		0852	1.73	1.53		0900	0.31	0.40				
SU	1536	2.08	1.44	MO	1453	0.78	0.68	TU	1551	2.13	1.44				
	2110	0.43	0.47		2231	1.88	1.41		2126	0.62	0.65				
<b>7</b>	0352	2.15	1.48	<b>15</b>	0408	1.33	1.21	<b>23</b>	0355	2.14	1.49				
	0932	0.27	0.36		1001	1.74	1.54		0940	0.24	0.33				
MO	1623	2.04	1.39	TU	1609	0.77	0.68	WE	1640	2.14	1.43				
	2153	0.55	0.57		2323	1.93	1.43		2209	0.74	0.76				
<b>8</b>	0426	2.10	1.48	<b>16</b>	0518	1.23	1.16	<b>24</b>	0431	2.10	1.51				
	1011	0.28	0.36		1103	1.77	1.53		1023	0.22	0.31				
TU	1709	1.99	1.37	WE	1707	0.72	0.63	TH	1733	2.13	1.43				
	2235	0.69	0.70						2255	0.87	0.87				
●															

The Rip

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**March - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0244	1.18	1.10	<b>9</b>	0351	2.04	1.48	<b>17</b>	0415	1.15	1.06	<b>25</b>	0411	2.10	1.55
	0916	1.88	1.57		0937	0.26	0.35		1042	1.76	1.47		1000	0.15	0.22
TU	1513	0.55	0.55	WE	1636	2.05	1.37	TH	1635	0.85	0.74	FR	1716	2.23	1.53
	2241	2.01	1.41		2209	0.73	0.75		2327	1.93	1.46	●	2240	0.85	0.85
<b>2</b>	0359	1.09	1.04	<b>10</b>	0422	1.99	1.49	<b>18</b>	0513	0.99	0.95	<b>26</b>	0453	2.05	1.55
	1033	1.91	1.56		1012	0.33	0.39		1140	1.85	1.48		1047	0.24	0.29
WE	1630	0.54	0.54	TH	1716	1.99	1.37	FR	1730	0.77	0.69	SA	1808	2.15	1.50
	2341	2.04	1.41	●	2247	0.87	0.86	○					2329	0.94	0.92
<b>3</b>	0513	0.91	0.91	<b>11</b>	0451	1.93	1.49	<b>19</b>	0010	2.00	1.48	<b>27</b>	0541	1.99	1.54
	1144	1.97	1.54		1047	0.43	0.46		0556	0.80	0.79		1138	0.38	0.40
TH	1736	0.50	0.51	FR	1758	1.93	1.37	SA	1231	1.97	1.49	SU	1904	2.06	1.48
●					2326	1.01	0.97		1817	0.70	0.64				
<b>4</b>	0033	2.07	1.41	<b>12</b>	0520	1.87	1.48	<b>20</b>	0051	2.05	1.50	<b>28</b>	0022	1.00	0.95
	0612	0.69	0.73		1124	0.55	0.54		0634	0.60	0.62		0642	1.91	1.52
FR	1247	2.05	1.51	SA	1844	1.87	1.37	SU	1319	2.08	1.51	MO	1235	0.53	0.52
	1832	0.46	0.49						1902	0.64	0.62		2004	1.98	1.46
<b>5</b>	0120	2.10	1.42	<b>13</b>	0008	1.13	1.06	<b>21</b>	0131	2.10	1.51	<b>29</b>	0120	1.03	0.96
	0700	0.48	0.56		0557	1.81	1.47		0713	0.41	0.46		0800	1.86	1.51
SA	1341	2.11	1.49	SU	1205	0.67	0.63	MO	1405	2.19	1.53	TU	1342	0.66	0.63
	1923	0.44	0.48		1937	1.82	1.38		1945	0.62	0.62		2108	1.94	1.44
<b>6</b>	0203	2.11	1.44	<b>14</b>	0056	1.22	1.11	<b>22</b>	0212	2.12	1.52	<b>30</b>	0224	1.01	0.94
	0743	0.33	0.43		0653	1.74	1.46		0752	0.25	0.32		0920	1.87	1.51
SU	1430	2.14	1.46	MO	1255	0.79	0.71	TU	1451	2.26	1.53	WE	1500	0.74	0.69
	2008	0.46	0.51		2037	1.80	1.39		2028	0.63	0.65		2212	1.93	1.43
<b>7</b>	0242	2.11	1.45	<b>15</b>	0153	1.26	1.14	<b>23</b>	0252	2.13	1.53	<b>31</b>	0335	0.91	0.87
	0823	0.24	0.36		0816	1.70	1.47		0833	0.15	0.23		1033	1.93	1.52
MO	1514	2.13	1.42	TU	1401	0.88	0.77	WE	1537	2.29	1.53	TH	1616	0.75	0.70
	2051	0.51	0.56		2140	1.82	1.41		2111	0.68	0.71		2309	1.95	1.44
<b>8</b>	0318	2.08	1.47	<b>16</b>	0301	1.24	1.12	<b>24</b>	0331	2.12	1.54				
	0901	0.22	0.33		0935	1.71	1.47		0916	0.12	0.20				
TU	1556	2.10	1.39	WE	1525	0.90	0.77	TH	1626	2.28	1.53				
	2131	0.61	0.65		2238	1.86	1.43		2155	0.76	0.78				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**April - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0445	0.75	0.75	<b>9</b>	0418	1.93	1.52	<b>17</b>	0509	0.69	0.65	<b>25</b>	0542	2.00	1.57
	1139	2.02	1.53		1010	0.49	0.50		1212	2.12	1.59		1125	0.51	0.50
FR	1721	0.72	0.68	SA	1716	2.02	1.47	SU	1753	0.91	0.84	MO	1842	2.10	1.58
●				●	2257	1.00	0.96	●							
<b>2</b>	0000	1.99	1.45	<b>10</b>	0449	1.88	1.50	<b>18</b>	0010	2.03	1.59	<b>26</b>	0008	0.88	0.81
	0544	0.57	0.60		1046	0.61	0.59		0556	0.49	0.47		0649	1.93	1.54
SA	1236	2.11	1.53	SU	1757	1.95	1.47	MO	1300	2.26	1.65	TU	1222	0.70	0.64
	1817	0.67	0.66		2336	1.07	1.01		1842	0.85	0.80		1937	2.02	1.55
<b>3</b>	0046	2.02	1.47	<b>11</b>	0528	1.82	1.48	<b>19</b>	0055	2.08	1.61	<b>27</b>	0103	0.87	0.79
	0632	0.42	0.48		1128	0.74	0.69		0640	0.30	0.31		0805	1.90	1.53
SU	1325	2.18	1.52	MO	1845	1.89	1.46	TU	1347	2.38	1.68	WE	1329	0.85	0.77
	1906	0.64	0.65						1928	0.80	0.78		2036	1.96	1.53
<b>4</b>	0129	2.04	1.49	<b>12</b>	0021	1.12	1.02	<b>20</b>	0140	2.12	1.62	<b>28</b>	0202	0.84	0.75
	0714	0.31	0.39		0625	1.75	1.45		0724	0.16	0.19		0919	1.94	1.54
MO	1409	2.21	1.51	TU	1216	0.87	0.79	WE	1434	2.44	1.71	TH	1443	0.95	0.86
	1950	0.63	0.66		1941	1.85	1.47		2012	0.78	0.77		2136	1.94	1.53
<b>5</b>	0209	2.04	1.51	<b>13</b>	0113	1.14	1.02	<b>21</b>	0225	2.15	1.63	<b>29</b>	0307	0.77	0.70
	0752	0.27	0.35		0749	1.72	1.45		0809	0.10	0.13		1026	2.01	1.56
TU	1449	2.21	1.49	WE	1318	0.98	0.88	TH	1522	2.45	1.71	FR	1556	0.98	0.90
	2030	0.66	0.70		2045	1.84	1.48		2056	0.78	0.78		2231	1.94	1.54
<b>6</b>	0245	2.03	1.53	<b>14</b>	0211	1.11	0.99	<b>22</b>	0311	2.15	1.64	<b>30</b>	0413	0.67	0.63
	0828	0.28	0.34		0912	1.75	1.46		0855	0.11	0.15		1126	2.11	1.59
WE	1527	2.18	1.49	TH	1437	1.04	0.92	FR	1611	2.40	1.69	SA	1702	0.96	0.91
	2108	0.72	0.75		2146	1.87	1.51		2141	0.80	0.79		2322	1.97	1.56
<b>7</b>	0318	2.00	1.53	<b>15</b>	0314	1.03	0.92	<b>23</b>	0358	2.13	1.63				
	0902	0.32	0.37		1021	1.84	1.49		0943	0.20	0.22				
TH	1603	2.14	1.48	FR	1555	1.03	0.91	SA	1700	2.31	1.65				
	2145	0.81	0.82		2239	1.92	1.53	●	2227	0.83	0.80				
<b>8</b>	0348	1.97	1.53	<b>16</b>	0416	0.88	0.80	<b>24</b>	0446	2.08	1.60				
	0935	0.40	0.42		1120	1.97	1.54		1032	0.34	0.35				
FR	1639	2.08	1.48	SA	1659	0.98	0.88	SU	1750	2.21	1.61				
	2220	0.91	0.90		2326	1.98	1.56		2316	0.86	0.81				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**May - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0512	0.56	0.55	<b>9</b>	0427	1.93	1.57	<b>17</b>	0519	0.44	0.40	<b>25</b>	0649	2.01	1.58
	1218	2.19	1.61		1017	0.70	0.66		1238	2.43	1.80		1208	0.85	0.78
SU	1758	0.92	0.89	MO	1720	2.09	1.59	TU	1818	1.09	1.03	WE	1906	2.10	1.65
					2309	1.02	0.94								
<b>2</b>	0009	2.00	1.58	<b>10</b>	0509	1.88	1.54	<b>18</b>	0018	2.12	1.74	<b>26</b>	0043	0.72	0.64
	0601	0.47	0.48		1059	0.82	0.77		0611	0.28	0.26		0759	2.00	1.58
MO	1304	2.25	1.62	TU	1803	2.03	1.59	WE	1327	2.52	1.84	TH	1310	1.02	0.92
	1847	0.88	0.87		2352	1.03	0.93		1908	1.01	0.96		1959	2.03	1.64
<b>3</b>	0053	2.02	1.59	<b>11</b>	0608	1.83	1.51	<b>19</b>	0110	2.17	1.75	<b>27</b>	0136	0.72	0.63
	0643	0.41	0.43		1147	0.96	0.89		0701	0.18	0.18		0906	2.04	1.60
TU	1345	2.29	1.62	WE	1853	1.98	1.58	TH	1417	2.56	1.84	FR	1417	1.14	1.03
	1931	0.86	0.86						1955	0.93	0.89		2055	2.00	1.64
<b>4</b>	0135	2.03	1.61	<b>12</b>	0039	1.02	0.90	<b>20</b>	0203	2.21	1.76	<b>28</b>	0234	0.70	0.63
	0722	0.39	0.41		0727	1.81	1.49		0750	0.15	0.16		1008	2.10	1.63
WE	1423	2.29	1.62	TH	1244	1.09	1.00	FR	1506	2.54	1.82	SA	1527	1.20	1.11
	2010	0.86	0.86		1950	1.95	1.59		2040	0.87	0.83		2149	1.99	1.65
<b>5</b>	0212	2.03	1.62	<b>13</b>	0131	0.98	0.86	<b>21</b>	0256	2.22	1.74	<b>29</b>	0337	0.68	0.62
	0757	0.40	0.41		0846	1.86	1.52		0840	0.20	0.21		1104	2.18	1.66
TH	1458	2.28	1.62	FR	1354	1.19	1.08	SA	1556	2.48	1.79	SU	1635	1.21	1.14
	2046	0.89	0.88		2050	1.95	1.61		2127	0.82	0.77		2241	2.00	1.67
<b>6</b>	0247	2.01	1.62	<b>14</b>	0227	0.90	0.78	<b>22</b>	0348	2.19	1.71	<b>30</b>	0438	0.64	0.60
	0831	0.44	0.44		0955	1.98	1.58		0930	0.31	0.31		1155	2.24	1.68
FR	1532	2.24	1.62	SA	1510	1.23	1.11	SU	1644	2.39	1.75	MO	1736	1.18	1.13
	2121	0.92	0.90		2146	1.98	1.65		2214	0.78	0.73		2331	2.01	1.69
<b>7</b>	0320	1.99	1.61	<b>15</b>	0326	0.78	0.68	<b>23</b>	0442	2.13	1.67	<b>31</b>	0530	0.60	0.57
	0904	0.50	0.49		1054	2.13	1.66		1021	0.47	0.46		1240	2.30	1.70
SA	1607	2.20	1.62	SU	1621	1.22	1.11	MO	1731	2.29	1.71	TU	1827	1.14	1.10
	2154	0.96	0.92		2237	2.02	1.68		2302	0.76	0.69				
<b>8</b>	0352	1.97	1.60	<b>16</b>	0425	0.62	0.55	<b>24</b>	0542	2.06	1.62				
	0939	0.59	0.56		1148	2.29	1.74		1113	0.66	0.62				
SU	1642	2.15	1.61	MO	1724	1.17	1.08	TU	1818	2.19	1.68				
	2230	0.99	0.94		2327	2.06	1.72		2352	0.74	0.66				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## June - 2022

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0018	2.03	1.70	<b>9</b>	0552	1.94	1.56	<b>17</b>	0047	2.23	1.85	<b>25</b>	0105	0.65	0.59
	0614	0.57	0.55		1124	1.03	0.97		0643	0.27	0.28		0839	2.09	1.62
WE	1321	2.33	1.71	TH	1813	2.13	1.68	FR	1400	2.58	1.84	SA	1344	1.26	1.16
	1911	1.10	1.06						1937	1.02	0.97		2009	2.05	1.71
<b>2</b>	0102	2.04	1.71	<b>10</b>	0008	0.89	0.80	<b>18</b>	0147	2.26	1.83	<b>26</b>	0157	0.71	0.64
	0654	0.55	0.53		0704	1.95	1.55		0737	0.26	0.28		0938	2.12	1.64
TH	1357	2.35	1.71	FR	1217	1.17	1.10	SA	1451	2.56	1.82	SU	1450	1.36	1.25
	1949	1.06	1.03		1900	2.09	1.69		2024	0.89	0.84		2104	2.02	1.72
<b>3</b>	0142	2.05	1.71	<b>11</b>	0055	0.85	0.75	<b>19</b>	0244	2.28	1.80	<b>27</b>	0257	0.75	0.69
	0730	0.55	0.52		0817	2.02	1.59		0829	0.31	0.34		1035	2.17	1.66
FR	1432	2.34	1.72	SA	1318	1.31	1.21	SU	1539	2.51	1.79	MO	1600	1.40	1.31
	2024	1.04	1.00		1953	2.07	1.71		2111	0.77	0.73		2200	2.01	1.74
<b>4</b>	0220	2.05	1.71	<b>12</b>	0147	0.78	0.69	<b>20</b>	0339	2.25	1.75	<b>28</b>	0402	0.76	0.71
	0805	0.57	0.54		0923	2.13	1.66		0919	0.43	0.44		1128	2.22	1.68
SA	1506	2.33	1.72	SU	1427	1.39	1.28	MO	1625	2.44	1.76	TU	1708	1.39	1.31
	2056	1.01	0.97		2051	2.06	1.75		2157	0.68	0.64		2253	2.01	1.75
<b>5</b>	0256	2.05	1.69	<b>13</b>	0244	0.70	0.62	<b>21</b>	0435	2.20	1.69	<b>29</b>	0500	0.75	0.71
	0840	0.61	0.57		1024	2.27	1.74		1009	0.58	0.58		1215	2.27	1.70
SU	1540	2.31	1.72	MO	1540	1.42	1.31	TU	1708	2.36	1.74	WE	1805	1.33	1.27
	2129	0.99	0.94		2149	2.08	1.79		2244	0.62	0.59		2344	2.03	1.76
<b>6</b>	0332	2.03	1.67	<b>14</b>	0346	0.58	0.52	<b>22</b>	0534	2.15	1.64	<b>30</b>	0548	0.72	0.68
	0917	0.67	0.64		1121	2.40	1.82		1058	0.76	0.73		1256	2.31	1.71
MO	1615	2.27	1.71	TU	1650	1.38	1.29	WE	1749	2.27	1.72	TH	1850	1.26	1.21
	2204	0.97	0.90		2246	2.12	1.83		2330	0.60	0.56				
<b>7</b>	0410	2.01	1.63	<b>15</b>	0448	0.46	0.42	<b>23</b>	0636	2.10	1.61				
	0956	0.76	0.73		1215	2.50	1.86		1149	0.95	0.88				
TU	1652	2.23	1.69	WE	1752	1.29	1.21	TH	1832	2.18	1.70				
	2242	0.94	0.87		2346	2.17	1.85								
<b>8</b>	0455	1.97	1.60	<b>16</b>	0547	0.34	0.33	<b>24</b>	0016	0.61	0.57				
	1038	0.88	0.84		1308	2.56	1.86		0739	2.09	1.61				
WE	1731	2.18	1.68	TH	1847	1.16	1.10	FR	1244	1.12	1.03				
	2323	0.92	0.83						1918	2.11	1.70				

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The Rip

# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**July - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0032	2.04	1.76	<b>9</b>	0640	2.09	1.59	<b>17</b>	0136	2.28	1.81	<b>25</b>	0117	0.73	0.68
	0630	0.69	0.65		1153	1.21	1.15		0726	0.37	0.42		0858	2.07	1.58
FR	1333	2.34	1.71	SA	1815	2.19	1.74	SU	1432	2.50	1.72	MO	1407	1.42	1.30
	1927	1.18	1.14						2006	0.79	0.79		2016	1.99	1.71
<b>2</b>	0116	2.06	1.75	<b>10</b>	0023	0.70	0.66	<b>18</b>	0234	2.30	1.76	<b>26</b>	0214	0.81	0.75
	0709	0.66	0.63		0746	2.14	1.62		0817	0.41	0.46		0958	2.09	1.60
SA	1407	2.36	1.72	SU	1249	1.35	1.27	MO	1518	2.47	1.71	TU	1517	1.49	1.37
	1959	1.10	1.07		1901	2.15	1.77		2052	0.62	0.65		2117	1.96	1.73
<b>3</b>	0157	2.08	1.73	<b>11</b>	0113	0.67	0.63	<b>19</b>	0330	2.29	1.71	<b>27</b>	0323	0.87	0.80
	0745	0.65	0.63		0850	2.22	1.67		0906	0.51	0.54		1055	2.12	1.61
SU	1442	2.36	1.72	MO	1352	1.46	1.36	TU	1600	2.43	1.71	WE	1634	1.48	1.38
	2030	1.02	1.00		1959	2.12	1.80		2136	0.52	0.56		2218	1.96	1.74
<b>4</b>	0236	2.09	1.71	<b>12</b>	0210	0.63	0.60	<b>20</b>	0424	2.25	1.66	<b>28</b>	0430	0.86	0.81
	0822	0.66	0.64		0953	2.30	1.73		0953	0.64	0.65		1145	2.17	1.62
MO	1516	2.36	1.72	TU	1501	1.51	1.41	WE	1640	2.36	1.71	TH	1740	1.41	1.34
	2102	0.94	0.92		2106	2.12	1.84		2220	0.47	0.51		2315	1.97	1.73
<b>5</b>	0314	2.10	1.68	<b>13</b>	0314	0.58	0.57	<b>21</b>	0518	2.20	1.62	<b>29</b>	0524	0.83	0.78
	0859	0.70	0.69		1054	2.38	1.76		1039	0.80	0.79		1228	2.22	1.64
TU	1551	2.35	1.72	WE	1614	1.48	1.39	TH	1717	2.28	1.70	FR	1825	1.30	1.26
	2137	0.87	0.85		2215	2.15	1.87		2302	0.48	0.51				
<b>6</b>	0355	2.09	1.64	<b>14</b>	0424	0.51	0.52	<b>22</b>	0612	2.15	1.59	<b>30</b>	0007	2.00	1.72
	0938	0.79	0.78		1153	2.44	1.77		1126	0.97	0.93		0609	0.78	0.74
WE	1627	2.32	1.71	TH	1725	1.37	1.29	FR	1755	2.20	1.70	SA	1305	2.26	1.65
	2214	0.81	0.79		2324	2.18	1.88		2345	0.54	0.55		1900	1.18	1.16
<b>7</b>	0441	2.08	1.61	<b>15</b>	0530	0.43	0.46	<b>23</b>	0706	2.11	1.58	<b>31</b>	0054	2.04	1.70
	1020	0.90	0.89		1250	2.49	1.76		1214	1.14	1.07		0649	0.72	0.69
TH	1702	2.28	1.71	FR	1825	1.19	1.14	SA	1834	2.12	1.70	SU	1341	2.30	1.66
	2254	0.77	0.74										1931	1.05	1.06
<b>8</b>	0536	2.07	1.58	<b>16</b>	0032	2.23	1.86	<b>24</b>	0029	0.63	0.61				
	1104	1.05	1.02		0630	0.38	0.42		0801	2.08	1.57				
FR	1737	2.23	1.72	SA	1343	2.50	1.74	SU	1307	1.29	1.20				
	2337	0.73	0.70		1918	0.99	0.96		1920	2.05	1.70				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## August - 2022

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0138	2.08	1.68	<b>9</b>	0043	0.57	0.59	<b>17</b>	0316	2.31	1.64	<b>25</b>	0237	0.94	0.84
	0727	0.69	0.67		0819	2.21	1.61		0850	0.56	0.60		1012	1.98	1.53
MO	1416	2.33	1.66	TU	1324	1.41	1.33	WE	1531	2.33	1.64	TH	1544	1.43	1.32
	2001	0.92	0.94		1921	2.11	1.78		2110	0.35	0.46		2147	1.86	1.65
<b>2</b>	0219	2.12	1.65	<b>10</b>	0142	0.60	0.62	<b>18</b>	0405	2.28	1.60	<b>26</b>	0356	0.95	0.85
	0804	0.68	0.68		0924	2.23	1.63		0935	0.66	0.69		1106	2.02	1.54
TU	1451	2.35	1.67	WE	1430	1.45	1.37	TH	1608	2.28	1.65	FR	1701	1.35	1.27
	2034	0.80	0.84		2039	2.08	1.79		2151	0.34	0.44		2251	1.89	1.63
<b>3</b>	0259	2.15	1.62	<b>11</b>	0250	0.62	0.63	<b>19</b>	0453	2.22	1.56	<b>27</b>	0458	0.91	0.82
	0842	0.70	0.72		1029	2.26	1.64		1017	0.79	0.80		1152	2.08	1.56
WE	1526	2.34	1.67	TH	1543	1.42	1.34	FR	1643	2.22	1.65	SA	1750	1.21	1.18
	2108	0.69	0.74		2159	2.09	1.80		2230	0.40	0.47		2347	1.94	1.62
<b>4</b>	0342	2.17	1.59	<b>12</b>	0406	0.60	0.62	<b>20</b>	0539	2.15	1.54	<b>28</b>	0546	0.84	0.77
	0922	0.78	0.79		1132	2.29	1.63		1100	0.94	0.93		1231	2.14	1.58
TH	1600	2.32	1.67	FR	1659	1.28	1.23	SA	1717	2.14	1.65	SU	1825	1.06	1.06
	2146	0.61	0.67		2315	2.13	1.79		2310	0.49	0.53				
<b>5</b>	0428	2.18	1.57	<b>13</b>	0517	0.54	0.57	<b>21</b>	0626	2.09	1.51	<b>29</b>	0036	2.01	1.61
	1003	0.89	0.90		1229	2.33	1.61		1144	1.10	1.06		0628	0.78	0.73
FR	1634	2.29	1.68	SA	1804	1.06	1.05	SU	1752	2.06	1.64	MO	1309	2.19	1.59
	2225	0.56	0.61						2350	0.61	0.62		1857	0.89	0.93
<b>6</b>	0520	2.18	1.56	<b>14</b>	0025	2.20	1.76	<b>22</b>	0716	2.03	1.51	<b>30</b>	0120	2.08	1.60
	1046	1.03	1.02		0619	0.49	0.53		1231	1.25	1.17		0708	0.72	0.70
SA	1706	2.24	1.70	SU	1320	2.36	1.61	MO	1832	1.98	1.64	TU	1346	2.24	1.61
	2307	0.54	0.59		1857	0.81	0.85						1929	0.73	0.79
<b>7</b>	0616	2.19	1.57	<b>15</b>	0128	2.26	1.72	<b>23</b>	0035	0.74	0.70	<b>31</b>	0203	2.16	1.59
	1133	1.17	1.14		0714	0.47	0.52		0811	1.98	1.51		0746	0.70	0.70
SU	1740	2.20	1.73	MO	1408	2.37	1.61	TU	1324	1.37	1.26	WE	1422	2.26	1.62
	2353	0.55	0.58		1945	0.60	0.66		1926	1.91	1.63		2002	0.58	0.65
<b>8</b>	0716	2.20	1.59	<b>16</b>	0224	2.30	1.68	<b>24</b>	0127	0.86	0.79				
	1225	1.31	1.25		0804	0.49	0.54		0910	1.97	1.52				
MO	1821	2.15	1.76	TU	1451	2.36	1.63	WE	1426	1.44	1.31				
					2028	0.44	0.53		2037	1.86	1.64				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## September - 2022

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0245	2.22	1.58	<b>9</b>	0234	0.69	0.69	<b>17</b>	0423	2.22	1.53	<b>25</b>	0424	1.00	0.87
	0826	0.71	0.73		1004	2.10	1.53		0955	0.78	0.80		1106	1.95	1.53
TH	1458	2.27	1.62	FR	1518	1.21	1.15	SA	1610	2.10	1.60	SU	1656	1.06	1.00
	2039	0.46	0.55		2159	2.01	1.66		2157	0.36	0.43		2327	1.91	1.53
<b>2</b>	0329	2.26	1.57	<b>10</b>	0353	0.70	0.70	<b>18</b>	0503	2.14	1.51	<b>26</b>	0518	0.94	0.83
	0906	0.77	0.79		1106	2.12	1.52		1035	0.90	0.90		1150	2.01	1.55
FR	1533	2.25	1.63	SA	1633	1.05	1.03	SU	1642	2.04	1.58	MO	1739	0.89	0.87
	2117	0.39	0.48	●	2314	2.07	1.66	●	2234	0.47	0.51	●			
<b>3</b>	0414	2.28	1.56	<b>11</b>	0505	0.67	0.66	<b>19</b>	0545	2.06	1.49	<b>27</b>	0017	2.02	1.55
	0947	0.86	0.88		1201	2.15	1.53		1115	1.03	0.99		0604	0.86	0.79
SA	1608	2.22	1.63	SU	1739	0.83	0.85	MO	1714	1.96	1.57	TU	1230	2.07	1.57
	2158	0.36	0.44						2311	0.60	0.60		1817	0.71	0.71
<b>4</b>	0503	2.27	1.56	<b>12</b>	0020	2.17	1.64	<b>20</b>	0629	1.99	1.48	<b>28</b>	0102	2.13	1.58
	1030	0.97	0.98		0606	0.62	0.63		1157	1.15	1.08		0647	0.80	0.76
SU	1642	2.18	1.65	MO	1251	2.18	1.54	TU	1751	1.89	1.55	WE	1310	2.12	1.59
●	2241	0.38	0.45		1832	0.59	0.66		2353	0.74	0.70		1853	0.52	0.56
<b>5</b>	0555	2.23	1.55	<b>13</b>	0118	2.25	1.63	<b>21</b>	0718	1.92	1.47	<b>29</b>	0146	2.23	1.60
	1117	1.09	1.08		0700	0.59	0.61		1244	1.24	1.13		0728	0.76	0.75
MO	1718	2.13	1.66	TU	1337	2.21	1.56	WE	1844	1.81	1.53	TH	1349	2.15	1.60
	2328	0.44	0.49		1919	0.41	0.50						1930	0.37	0.42
<b>6</b>	0651	2.19	1.56	<b>14</b>	0210	2.30	1.62	<b>22</b>	0041	0.88	0.79	<b>30</b>	0229	2.32	1.61
	1207	1.19	1.15		0748	0.58	0.61		0815	1.87	1.48		0809	0.75	0.76
TU	1803	2.08	1.67	WE	1420	2.21	1.58	TH	1338	1.28	1.16	FR	1429	2.16	1.61
					2001	0.29	0.40		2003	1.76	1.53		2010	0.26	0.32
<b>7</b>	0020	0.53	0.56	<b>15</b>	0257	2.31	1.59	<b>23</b>	0146	0.98	0.86				
	0751	2.14	1.55		0832	0.61	0.65		0917	1.86	1.49				
WE	1304	1.26	1.20	TH	1500	2.20	1.59	FR	1442	1.28	1.15				
	1911	2.02	1.66		2041	0.25	0.36		2122	1.77	1.53				
<b>8</b>	0121	0.62	0.64	<b>16</b>	0341	2.27	1.55	<b>24</b>	0311	1.03	0.89				
	0857	2.10	1.54		0914	0.67	0.72		1016	1.90	1.50				
TH	1407	1.28	1.20	FR	1536	2.16	1.60	SA	1554	1.20	1.10				
	2037	1.99	1.66		2119	0.28	0.38		2229	1.82	1.53				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**October - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0313	2.36	1.62	<b>9</b>	0339	0.84	0.78	<b>17</b>	0429	2.14	1.53	<b>25</b>	0441	1.07	0.95
	0850	0.78	0.80		1034	1.98	1.50		1010	0.88	0.86		1102	1.93	1.57
SA	1508	2.16	1.61	SU	1606	0.79	0.77	MO	1611	1.94	1.55	TU	1647	0.73	0.66
	2051	0.21	0.27		2310	2.06	1.58		2200	0.49	0.48		2354	2.07	1.58
<b>2</b>	0359	2.36	1.61	<b>10</b>	0450	0.82	0.77	<b>18</b>	0505	2.07	1.51	<b>26</b>	0535	1.01	0.91
	0932	0.83	0.85		1127	2.01	1.51		1048	0.96	0.91		1147	1.98	1.59
SU	1547	2.14	1.61	MO	1710	0.61	0.62	TU	1644	1.88	1.52	WE	1734	0.55	0.50
	2134	0.22	0.28	O				O	2236	0.61	0.58				
<b>3</b>	0447	2.31	1.60	<b>11</b>	0011	2.17	1.60	<b>19</b>	0544	1.99	1.50	<b>27</b>	0041	2.21	1.64
	1016	0.90	0.90		0551	0.77	0.74		1127	1.02	0.95		0623	0.94	0.87
MO	1627	2.11	1.60	TU	1217	2.04	1.53	WE	1722	1.82	1.49	TH	1231	2.03	1.61
O	2220	0.29	0.34		1804	0.44	0.47		2316	0.75	0.69		1817	0.37	0.35
<b>4</b>	0537	2.24	1.57	<b>12</b>	0104	2.25	1.61	<b>20</b>	0627	1.91	1.49	<b>28</b>	0126	2.33	1.68
	1103	0.97	0.95		0643	0.72	0.72		1210	1.07	0.96		0708	0.88	0.84
TU	1711	2.05	1.59	WE	1303	2.07	1.55	TH	1816	1.75	1.46	FR	1315	2.07	1.62
	2309	0.41	0.44		1850	0.31	0.37						1900	0.23	0.23
<b>5</b>	0630	2.15	1.55	<b>13</b>	0151	2.29	1.60	<b>21</b>	0003	0.89	0.80	<b>29</b>	0210	2.41	1.71
	1153	1.02	0.98		0731	0.69	0.71		0718	1.86	1.49		0751	0.83	0.81
WE	1807	1.98	1.57	TH	1347	2.08	1.56	FR	1257	1.09	0.96	SA	1400	2.10	1.63
					1932	0.25	0.32		1935	1.71	1.45		1944	0.14	0.15
<b>6</b>	0003	0.55	0.55	<b>14</b>	0234	2.30	1.58	<b>22</b>	0101	1.01	0.90	<b>30</b>	0256	2.43	1.70
	0727	2.06	1.52		0814	0.69	0.73		0818	1.83	1.49		0834	0.81	0.79
TH	1248	1.04	0.98	FR	1428	2.07	1.57	SA	1351	1.07	0.93	SU	1446	2.11	1.63
	1922	1.92	1.55		2011	0.25	0.31		2055	1.74	1.45		2030	0.12	0.14
<b>7</b>	0107	0.69	0.67	<b>15</b>	0314	2.27	1.55	<b>23</b>	0216	1.09	0.95	<b>31</b>	0344	2.40	1.68
	0830	2.00	1.50		0854	0.73	0.76		0919	1.84	1.51		0917	0.80	0.79
FR	1349	1.02	0.95	SA	1505	2.04	1.57	SU	1451	1.00	0.88	MO	1531	2.10	1.61
	2045	1.91	1.55		2048	0.30	0.34		2204	1.81	1.47		2117	0.18	0.19
<b>8</b>	0221	0.80	0.75	<b>16</b>	0352	2.21	1.54	<b>24</b>	0335	1.11	0.97				
	0934	1.97	1.50		0932	0.80	0.81		1014	1.88	1.54				
SA	1455	0.94	0.88	SU	1539	2.00	1.56	MO	1552	0.89	0.79				
	2201	1.97	1.56		2124	0.38	0.40		2303	1.93	1.52				

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**November - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0432	2.33	1.65	<b>9</b>	0531	0.94	0.90	<b>17</b>	0507	2.03	1.54	<b>25</b>	0016	2.28	1.70
	1003	0.81	0.78		1141	1.95	1.56		1057	0.90	0.81		0555	1.11	1.02
TU	1619	2.06	1.58	WE	1734	0.40	0.40	TH	1701	1.80	1.47	FR	1151	1.99	1.66
	2205	0.29	0.30						2248	0.75	0.69		1745	0.29	0.24
<b>2</b>	0521	2.23	1.62	<b>10</b>	0044	2.24	1.61	<b>18</b>	0546	1.97	1.53	<b>26</b>	0104	2.38	1.74
	1050	0.82	0.77		0625	0.89	0.87		1137	0.90	0.80		0645	1.01	0.94
WE	1712	1.99	1.55	TH	1229	1.97	1.57	FR	1755	1.76	1.43	SA	1243	2.04	1.67
	2257	0.44	0.43		1821	0.34	0.34		2332	0.89	0.81		1835	0.17	0.14
<b>3</b>	0611	2.13	1.57	<b>11</b>	0129	2.27	1.61	<b>19</b>	0630	1.92	1.52	<b>27</b>	0152	2.44	1.75
	1141	0.81	0.75		0712	0.84	0.84		1221	0.89	0.77		0732	0.92	0.86
TH	1816	1.93	1.51	FR	1315	1.99	1.57	SA	1907	1.74	1.41	SU	1336	2.08	1.67
	2352	0.62	0.58		1904	0.31	0.32						1925	0.11	0.10
<b>4</b>	0704	2.03	1.54	<b>12</b>	0209	2.27	1.60	<b>20</b>	0024	1.03	0.93	<b>28</b>	0240	2.44	1.73
	1234	0.79	0.71		0754	0.82	0.82		0722	1.88	1.53		0817	0.83	0.78
FR	1931	1.89	1.49	SA	1357	1.98	1.57	SU	1310	0.87	0.74	MO	1429	2.10	1.65
					1943	0.32	0.33		2025	1.77	1.42		2015	0.12	0.12
<b>5</b>	0054	0.79	0.72	<b>13</b>	0247	2.25	1.58	<b>21</b>	0128	1.14	1.02	<b>29</b>	0329	2.40	1.70
	0800	1.96	1.52		0833	0.82	0.81		0820	1.87	1.54		0902	0.75	0.70
SA	1330	0.75	0.67	SU	1436	1.96	1.57	MO	1402	0.81	0.69	TU	1521	2.10	1.62
	2047	1.92	1.50		2020	0.36	0.36		2134	1.87	1.48		2105	0.19	0.20
<b>6</b>	0205	0.91	0.83	<b>14</b>	0323	2.21	1.57	<b>22</b>	0241	1.21	1.08	<b>30</b>	0417	2.33	1.66
	0859	1.92	1.52		0910	0.84	0.81		0917	1.88	1.57		0949	0.68	0.63
SU	1430	0.69	0.62	MO	1511	1.93	1.56	TU	1459	0.73	0.61	WE	1615	2.06	1.58
	2156	1.99	1.53		2056	0.43	0.41		2233	2.00	1.55		2155	0.32	0.32
<b>7</b>	0319	0.98	0.89	<b>15</b>	0357	2.16	1.57	<b>23</b>	0354	1.22	1.10				
	0957	1.91	1.53		0945	0.86	0.82		1010	1.91	1.60				
MO	1535	0.60	0.55	TU	1545	1.89	1.54	WE	1557	0.60	0.50				
	2259	2.08	1.57		2131	0.52	0.49		2326	2.15	1.63				
<b>8</b>	0429	0.98	0.91	<b>16</b>	0432	2.09	1.55	<b>24</b>	0459	1.18	1.07				
	1050	1.93	1.54		1021	0.89	0.82		1100	1.94	1.64				
TU	1638	0.50	0.48	WE	1620	1.85	1.50	TH	1653	0.44	0.37				
	2355	2.17	1.60		2208	0.63	0.58								

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# AUSTRALIA, SOUTH COAST - THE RIP

RIP BANK (RB); NEPEAN BANK (NB) TIME ZONE - 1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**December - 2022**

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0504	2.24	1.62	<b>9</b>	0022	2.18	1.58	<b>17</b>	0512	2.05	1.54	<b>25</b>	0042	2.35	1.68
	1036	0.63	0.57		0604	1.06	1.02		1106	0.74	0.67		0620	1.10	1.02
TH	1713	2.00	1.52	FR	1156	1.91	1.59	SA	1734	1.81	1.42	SU	1216	2.03	1.70
●	2247	0.50	0.47		1755	0.43	0.42		2307	0.87	0.82		1816	0.19	0.18
<b>2</b>	0550	2.14	1.58	<b>10</b>	0106	2.21	1.58	<b>18</b>	0550	2.01	1.54	<b>26</b>	0134	2.39	1.67
	1125	0.59	0.52		0653	1.00	0.97		1148	0.71	0.63		0712	0.95	0.88
FR	1818	1.95	1.49	SA	1245	1.92	1.58	SU	1839	1.81	1.40	MO	1318	2.08	1.68
	2341	0.68	0.63		1840	0.41	0.41		2354	1.02	0.95		1911	0.14	0.16
<b>3</b>	0637	2.05	1.56	<b>11</b>	0146	2.22	1.57	<b>19</b>	0633	1.97	1.55	<b>27</b>	0224	2.39	1.64
	1215	0.56	0.49		0735	0.94	0.91		1232	0.68	0.60		0759	0.78	0.74
SA	1928	1.93	1.48	SU	1329	1.92	1.58	MO	1950	1.85	1.42	TU	1417	2.11	1.64
					1920	0.41	0.40						2004	0.16	0.19
<b>4</b>	0038	0.86	0.78	<b>12</b>	0222	2.22	1.57	<b>20</b>	0050	1.16	1.06	<b>28</b>	0313	2.37	1.61
	0727	1.98	1.55		0812	0.90	0.87		0722	1.93	1.57		0846	0.63	0.60
SU	1306	0.54	0.46	MO	1409	1.92	1.56	TU	1321	0.65	0.55	WE	1513	2.11	1.60
	2035	1.95	1.50		1957	0.43	0.42		2057	1.94	1.48		2055	0.23	0.26
<b>5</b>	0142	1.00	0.90	<b>13</b>	0257	2.20	1.57	<b>21</b>	0154	1.27	1.15	<b>29</b>	0400	2.31	1.59
	0821	1.92	1.55		0846	0.86	0.82		0818	1.91	1.59		0932	0.51	0.49
MO	1401	0.53	0.46	TU	1447	1.91	1.55	WE	1415	0.59	0.50	TH	1610	2.09	1.55
	2139	2.00	1.53		2033	0.47	0.45		2158	2.05	1.56		2145	0.37	0.38
<b>6</b>	0250	1.09	1.00	<b>14</b>	0330	2.17	1.56	<b>22</b>	0305	1.33	1.20	<b>30</b>	0443	2.24	1.57
	0917	1.90	1.56		0919	0.83	0.78		0917	1.91	1.63		1019	0.42	0.41
TU	1502	0.52	0.46	WE	1523	1.89	1.52	TH	1515	0.51	0.43	FR	1708	2.04	1.50
	2238	2.07	1.55		2109	0.53	0.51		2255	2.17	1.62	●	2234	0.53	0.52
<b>7</b>	0400	1.12	1.05	<b>15</b>	0403	2.13	1.56	<b>23</b>	0416	1.31	1.20	<b>31</b>	0525	2.16	1.56
	1012	1.89	1.57		0952	0.80	0.74		1015	1.94	1.67		1105	0.37	0.36
WE	1606	0.50	0.46	TH	1600	1.87	1.49	FR	1617	0.40	0.35	SA	1809	2.00	1.47
	2332	2.13	1.57		2145	0.62	0.59	●	2349	2.28	1.67		2324	0.71	0.67
<b>8</b>	0506	1.11	1.05	<b>16</b>	0437	2.09	1.55	<b>24</b>	0523	1.23	1.13				
	1105	1.90	1.58		1028	0.77	0.70		1115	1.98	1.70				
TH	1704	0.47	0.44	FR	1642	1.84	1.45	SA	1718	0.28	0.25				
●				●	2224	0.74	0.70								

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# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**January - 2022**

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
<b>1</b> 0049 0259 -2.92	<b>9</b> 0551 0833 2.21		0120 0400 4.25	<b>17</b> 0739 1014 -5.38	0312 0530 -2.82	<b>25</b> 0902 1116 1.53	0120 0403 4.02		0728 1010 -5.39		
SA 1109 1416 -5.29	SU 1412 1654 3.55		MO 1305 1633 -4.26	TU 1410 1654 3.56			TU 1410 1654 3.56				
1856 2159 4.04	1944 2221 -4.95		2039 2327 3.87	●	1955 2230 -4.58						
<b>2</b> 0209 0420 -3.00	<b>10</b> 0725 1000 2.06		<b>18</b> 0812 1050 -5.44	<b>26</b> 0958 1216 1.88		<b>26</b> 1408 1725 -4.46	0156 0438 3.82		0755 1040 -5.60		
SU 1215 1521 -5.42	MO 1456 1737 3.47		TU 2043 2313 -4.40	WE 2129		WE 2051 2320 -4.17	1450 1736 3.61		2051 2320 -4.17		
● 2001 2257 4.34	●		●								
<b>3</b> 0316 0532 -3.35	<b>11</b> 0852 1120 2.28		<b>19</b> 0844 1126 -5.37	<b>27</b> 0439 0704 -3.63		<b>27</b> 1041 1306 2.31	0234 0515 3.56		0824 1112 -5.71		
MO 1327 1628 -5.64	TU 1540 1822 3.38		WE 2145	TH 1506 1810 -4.71		TH 1533 1824 3.64	1533 1824 3.64		2154		
● 2105 2353 4.55	2145		2213								
<b>4</b> 0413 0633 -3.77	<b>12</b> 0959 1231 2.69		<b>20</b> 0316 0602 3.31	<b>28</b> 0512 0740 -3.96		<b>28</b> 1119 1350 2.69	0016 0515 -3.70		0315 0554 3.23		
TU 1438 1734 -5.89	WE 0915 1204 -5.17		WE 1624 1909 3.31	FR 1558 1852 -4.94		FR 1622 1920 3.65	0857 1152 -5.71		2304		
2204	2250		2254	2254		2254	2304				
<b>5</b> 0048 4.65	<b>13</b> 0502 0726 -4.16		<b>21</b> 0401 0644 2.82	<b>29</b> 0543 0813 -4.27		<b>29</b> 1153 1430 2.98	0119 0322 -3.22		0404 0640 2.78		
WE 1056 1335 3.08	TH 0948 1246 -4.87		FR 1710 1958 3.30	SA 1646 1934 -5.09		SA 1720 2023 3.71	0937 1241 -5.57				
1544 1838 -6.06	2358		2332	2332		2332					
2259											
<b>6</b> 0140 4.66	<b>14</b> 0546 0813 -4.54		<b>22</b> 0455 0738 2.24	<b>30</b> 0610 0844 -4.56		<b>30</b> 1226 1506 3.19	0023 0229 -2.81		0509 0745 2.24		
TH 1148 1435 3.37	FR 1025 1334 -4.56		SA 1759 2051 3.36	SU 1731 2016 -5.14		SU 1827 2131 3.83	1030 1341 -5.35				
1647 1938 -6.07	2350		1731	1731		1731	1827	2131	3.83		
2350											
<b>7</b> 0230 4.58	<b>15</b> 0626 0857 -4.89		<b>23</b> 0610 0849 1.71	<b>31</b> 0637 0914 -4.85		<b>31</b> 1259 1541 3.35	0144 0349 -2.68		0639 0920 1.89		
FR 1237 1526 3.54	SA 1108 1429 -4.31		MO 1817 2059 -5.07	MO 1939 2236 4.00		MO 1939 2236 4.00					
1747 2035 -5.86	1852 2146 3.49		1904 2144 -4.88								
1846 2129 -5.47	1947 2238 3.67										

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## February - 2022

	Slack	Maximum	Slack	Maximum	Slack	Maximum	Slack	Maximum							
	Time	Time	Time	Time	Time	Time	Time	Time							
	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate							
<b>1</b>	0256	0509	-3.00	<b>9</b>	0214	0455	3.66	<b>17</b>	0407	0632	-3.34	<b>25</b>	0223	0457	3.47
	0824	1101	2.09		0802	1050	-5.68		1013	1242	2.24		0754	1044	-6.06
TU	1308	1613	-5.17	WE	1502	1744	3.71	TH	1448	1750	-4.35	FR	1510	1754	3.94
	2050	2340	4.18		2114	2339	-4.04		2152				2141		
<b>2</b>	0355	0613	-3.57	<b>10</b>	0248	0527	3.34	<b>18</b>	0040	0390	<b>26</b>	0003	0380		
	0944	1222	2.66		0830	1122	-5.42		0440	0708	-3.87		0301	0534	3.17
WE	1432	1731	-5.37	TH	1539	1824	3.59	FR	1051	1328	2.85	SA	0830	1126	-5.85
	2154				2205				1549	1838	-4.70		1558	1848	3.76
							2237					2244			
<b>3</b>	0038	4.32	<b>11</b>	0027	-3.58	<b>19</b>	0122	4.05	<b>27</b>	0059	-3.32				
	0442	0708	-4.16		0324	0559	2.94		0508	0740	-4.37		0346	0617	2.76
TH	1045	1331	3.22	FR	0859	1158	-5.08	SA	1126	1407	3.32	SU	0913	1218	-5.47
	1546	1839	-5.62		1618	1906	3.47		1642	1925	-4.96		1654	1953	3.61
	2250				2300				2318				2355		
<b>4</b>	0131	4.39	<b>12</b>	0119	-3.08	<b>20</b>	0202	4.11	<b>28</b>	0204	-2.88				
	0523	0755	-4.71		0405	0637	2.44		0534	0811	-4.84		0446	0721	2.22
FR	1137	1426	3.60	SA	0931	1238	-4.69	SU	1200	1442	3.66	MO	1011	1323	-5.01
	1652	1939	-5.70		1702	1955	3.35		1730	2011	-5.09		1801	2106	3.55
	2340						2356								
<b>5</b>	0220	4.39	<b>13</b>	0003	0218	-2.55	<b>21</b>	0238	4.09						
	0600	0836	-5.20		0457	0731	1.83		0600	0840	-5.30				
SA	1224	1511	3.80	SU	1010	1327	-4.31	MO	1234	1517	3.89				
	1751	2033	-5.57		1755	2054	3.28		1817	2056	-5.08				
<b>6</b>	0025	0304	4.31	<b>14</b>	0117	0326	-2.16	<b>22</b>	0033	0313	4.01				
	0634	0912	-5.57		0616	0852	1.28		0626	0909	-5.69				
SU	1308	1551	3.88	MO	1103	1428	-4.00	TU	1310	1551	4.04				
	1845	2123	-5.28		1856	2158	3.32		1904	2141	-4.93				
<b>7</b>	0104	0343	4.15	<b>15</b>	0228	0443	-2.23	<b>23</b>	0110	0348	3.87				
	0705	0946	-5.77		0807	1025	1.18		0653	0938	-5.96				
MO	1348	1629	3.87	TU	1215	1544	-3.87	WE	1347	1628	4.09				
	1936	2209	-4.89		2001	2300	3.48		1953	2226	-4.65				
<b>8</b>	0140	0420	3.94	<b>16</b>	0325	0547	-2.74	<b>24</b>	0146	0422	3.69				
	0734	1018	-5.80		0924	1142	1.59		0722	1009	-6.09				
TU	1426	1706	3.80	WE	1335	1655	-4.03	TH	1427	1709	4.06				
	2025	2254	-4.47		2101	2353	3.70		2045	2313	-4.26				

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

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

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**March - 2022**

	Slack	Maximum	Slack	Maximum	Slack	Maximum	Slack	Maximum
	Time	Time	Time	Time	Time	Time	Time	Time
	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
<b>1</b>	0113 0321	-2.67	<b>9</b>	0119 0357	3.71	<b>17</b>	0225 0452	-2.60
	0619 0908	1.87		0653 0940	-5.88		0836 1107	1.68
TU	1133 1443	-4.63	WE	1347 1628	4.12	TH	1313 1621	-3.58
	1920 2220	3.62		2000 2231	-4.53		2024 2330	3.35
<b>2</b>	0226 0442	-3.00	<b>10</b>	0151 0426	3.50	<b>18</b>	0312 0542	-3.31
	0811 1056	2.23		0720 1010	-5.70		0929 1210	2.52
WE	1310 1614	-4.56	TH	1419 1701	4.01	FR	1438 1728	-3.96
	2037 2330	3.79		2039 2309	-4.21		2125	
<b>3</b>	0324 0551	-3.68	<b>11</b>	0222 0454	3.25	<b>19</b>	0019 0357	<b>27</b>
	0931 1218	2.93		0748 1040	-5.43		0347 0619	-4.00
TH	1441 1737	-4.84	FR	1452 1735	3.86	SA	1010 1254	3.27
	2144			2120 2349	-3.83		1544 1825	-4.39
							2215	
<b>4</b>	0030 3.97		<b>12</b>	0254 0523	2.96	<b>20</b>	0103 3.73	<b>28</b>
	0410 0643	-4.38		0817 1113	-5.09		0417 0654	-4.64
FR	1029 1319	3.51	SA	1528 1812	3.66	SU	1048 1331	3.81
	1555 1842	-5.13		2206			1639 1915	-4.72
	2240						2259	
<b>5</b>	0122 4.09		<b>13</b>	0033 -3.36		<b>21</b>	0143 3.79	<b>29</b>
	0449 0727	-4.99		0328 0557	2.56		0446 0727	-5.24
SA	1118 1405	3.89	SU	0849 1150	-4.70	MO	1125 1407	4.19
	1657 1938	-5.26		1608 1857	3.40		1728 2004	-4.90
	2327			2301			2340	
<b>6</b>	0208 4.11		<b>14</b>	0124 -2.82		<b>22</b>	0221 3.78	<b>30</b>
	0524 0805	-5.48		0411 0638	2.02		0515 0759	-5.76
SU	1201 1443	4.11	MO	0927 1237	-4.27	TU	1203 1444	4.43
	1750 2028	-5.21		1656 1957	3.14		1814 2051	-4.94
<b>7</b>	0009 0249	4.04	<b>15</b>	0008 0225	-2.32	<b>23</b>	0020 0256	<b>31</b>
	0556 0839	-5.80		0513 0749	1.40		0546 0832	-6.13
MO	1239 1520	4.20	TU	1019 1339	-3.83	WE	1241 1522	4.52
	1837 2112	-5.04		1758 2114	3.01		1901 2135	-4.83
<b>8</b>	0046 0325	3.90	<b>16</b>	0122 0340	-2.17	<b>24</b>	0058 0330	<b>32</b>
	0625 0910	-5.92		0701 0935	1.17		0618 0906	-6.30
TU	1314 1554	4.19	WE	1138 1459	-3.52	TH	1322 1601	4.49
	1920 2152	-4.81		1912 2231	3.12		1948 2218	-4.60

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**April - 2022**

	Slack	Maximum		Slack	Maximum		Slack	Maximum		Slack	Maximum				
	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate			
<b>1</b>	0241	0517	-4.03	<b>9</b>	0158	0424	3.08	<b>17</b>	0237	0518	-4.33	<b>25</b>	0254	0529	2.87
	0912	1203	3.31		0709	1000	-5.26		0921	1211	3.76		0811	1108	-5.14
FR	1457	1739	-4.30	SA	1409	1650	4.08	SU	1537	1807	-4.02	MO	1518	1802	3.76
	2129				2044	2316	-3.96		2147				2203		
<b>2</b>	0020	3.62		<b>10</b>	0228	0453	2.85	<b>18</b>	0034	3.29		<b>26</b>	0025	-3.88	
	0327	0607	-4.67		0741	1033	-4.95		0315	0559	-5.01		0350	0634	2.60
SA	1005	1252	3.82	SU	1442	1724	3.83	MO	1005	1250	4.28	TU	0916	1212	-4.51
	1603	1839	-4.59		2125	2355	-3.59		1632	1902	-4.38		1611	1905	3.42
	2224								2237				2257		
<b>3</b>	0110	3.71		<b>11</b>	0302	0528	2.52	<b>19</b>	0118	3.38		<b>27</b>	0120	-3.72	
	0406	0649	-5.21		0815	1113	-4.57		0352	0638	-5.63		0502	0753	2.44
SU	1049	1330	4.17	MO	1520	1803	3.52	TU	1048	1331	4.62	WE	1038	1325	-3.90
	1657	1931	-4.77		2212				1721	1951	-4.59		1715	2020	3.14
	2310								2322				2355		
<b>4</b>	0154	3.72		<b>12</b>	0039	-3.19		<b>20</b>	0158	3.41		<b>28</b>	0224	-3.70	
	0441	0726	-5.58		0344	0610	2.07		0428	0717	-6.10		0627	0921	2.62
MO	1127	1407	4.37	TU	0857	1202	-4.11	WE	1131	1412	4.79	TH	1215	1452	-3.51
	1742	2015	-4.83		1602	1854	3.14		1808	2038	-4.67		1836	2146	3.05
	2350				2305										
<b>5</b>	0231	3.65		<b>13</b>	0132	-2.85		<b>21</b>	0004	0236	3.40	<b>29</b>	0054	0334	-3.94
	0512	0800	-5.77		0442	0719	1.61		0506	0756	-6.36		0743	1038	3.10
TU	1201	1441	4.45	WE	0955	1306	-3.62	TH	1214	1454	4.79	FR	1349	1620	-3.52
	1822	2055	-4.79		1656	2015	2.83		1854	2122	-4.63		2000	2259	3.10
<b>6</b>	0025	0305	3.53	<b>14</b>	0005	0232	-2.74	<b>22</b>	0044	0313	3.36	<b>30</b>	0149	0435	-4.38
	0542	0831	-5.80		0609	0857	1.57		0547	0838	-6.37		0843	1131	3.60
WE	1233	1514	4.44	TH	1121	1424	-3.23	FR	1258	1537	4.67	SA	1504	1730	-3.81
	1859	2131	-4.68		1809	2144	2.80		1939	2205	-4.50		2109	2358	3.18
<b>7</b>	0057	0333	3.40	<b>15</b>	0103	0337	-3.03	<b>23</b>	0125	0352	3.28				
	0610	0901	-5.69		0735	1027	2.20		0630	0923	-6.14				
TH	1305	1546	4.37	FR	1302	1549	-3.19	SA	1343	1622	4.43				
	1933	2206	-4.50		1935	2252	2.96		2026	2249	-4.31				
<b>8</b>	0128	0358	3.25	<b>16</b>	0154	0432	-3.63	<b>24</b>	0207	0436	3.11				
	0640	0930	-5.50		0834	1127	3.05		0717	1012	-5.71				
FR	1336	1617	4.25	SA	1430	1705	-3.55	SU	1429	1709	4.11				
	2008	2240	-4.27		2049	2347	3.15		2113	2335	-4.10				

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

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

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**May - 2022**

	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate			
<b>1</b>	0236	0525	-4.84	<b>9</b>	0209	0434	2.69	<b>17</b>	0211	0504	-5.37	<b>25</b>	0003	-4.44	
	0931	1212	4.02		0712	1003	-4.73		0925	1213	4.55		0357	0644	2.90
SU	1602	1826	-4.11	MO	1404	1647	3.94	TU	1620	1840	-4.02	WE	0934	1214	-4.15
	2204				2052	2323	-3.82		2211				1550	1842	3.44
				●							2222				
<b>2</b>	0047	3.22		<b>10</b>	0245	0511	2.44	<b>18</b>	0044	2.91		<b>26</b>	0053	-4.39	
	0317	0608	-5.20		0752	1046	-4.36		0259	0553	-5.89		0503	0750	2.90
MO	1011	1251	4.32	TU	1439	1723	3.65	WE	1014	1258	4.81	TH	1058	1326	-3.60
	1648	1912	-4.34		2131				1710	1930	-4.26		1649	1948	3.07
	2249								2300				2310		
<b>3</b>	0130	3.23		<b>11</b>	0001	-3.64		<b>19</b>	0131	3.05		<b>27</b>	0148	-4.36	
	0353	0646	-5.44		0328	0559	2.17		0347	0640	-6.24		0610	0859	3.07
TU	1047	1327	4.49	WE	0841	1139	-3.93	TH	1103	1345	4.90	FR	1227	1447	-3.24
	1727	1954	-4.47		1518	1804	3.29		1757	2016	-4.39		1804	2109	2.78
	2328				2212				2345						
<b>4</b>	0208	3.20		<b>12</b>	0044	-3.54		<b>20</b>	0217	3.16		<b>28</b>	0000	0248	-4.42
	0426	0721	-5.53		0422	0706	2.04		0435	0729	-6.37		0711	1001	3.38
WE	1121	1401	4.57	TH	0948	1241	-3.46	FR	1151	1431	4.83	SA	1349	1604	-3.20
	1802	2031	-4.52		1605	1900	2.89		1843	2103	-4.46		1928	2221	2.63
	2256														
<b>5</b>	0003	0240	3.15	<b>13</b>	0132	-3.57		<b>21</b>	0030	0303	3.21	<b>29</b>	0051	0347	-4.58
	0458	0752	-5.51		0529	0827	2.26		0525	0820	-6.25		0804	1049	3.73
TH	1154	1434	4.56	FR	1115	1355	-3.06	SA	1240	1518	4.66	SU	1455	1710	-3.41
	1835	2107	-4.48		1709	2031	2.59		1927	2148	-4.50		2041	2322	2.58
	2344														
<b>6</b>	0034	0308	3.09	<b>14</b>	0226	-3.79		<b>22</b>	0116	0352	3.20	<b>30</b>	0139	0440	-4.78
	0530	0823	-5.41		0638	0942	2.87		0619	0914	-5.90		0850	1132	4.04
FR	1226	1507	4.49	SA	1251	1519	-2.94	SU	1327	1605	4.41	MO	1547	1804	-3.71
	1908	2141	-4.38		1836	2151	2.54		2011	2232	-4.50	●	2139		
	2256														
<b>7</b>	0105	0335	3.01	<b>15</b>	0034	0321	-4.21	<b>23</b>	0204	0446	3.12	<b>31</b>	0013	2.60	
	0603	0853	-5.24		0740	1040	3.56		0716	1010	-5.39		0223	0526	-4.96
SA	1258	1540	4.36	SU	1416	1638	-3.21	MO	1413	1654	4.11	TU	0931	1211	4.28
	1941	2213	-4.22		2005	2257	2.61	●	2054	2317	-4.48		1631	1850	-3.96
	2226														
<b>8</b>	0137	0402	2.88	<b>16</b>	0123	0414	-4.77	<b>24</b>	0258	0544	3.00				
	0637	0927	-5.01		0834	1128	4.13		0821	1109	-4.78				
SU	1331	1613	4.18	MO	1524	1745	-3.65	TU	1500	1746	3.79				
	2016	2247	-4.02	●	2115	2354	2.75		2137						

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

○ Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**June - 2022**

	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	
<b>1</b>	0058 0058	2.66	<b>9</b>	0312 0553	2.56	<b>17</b>	0108 0108	2.81	<b>25</b>	0108 0108	-4.88		
WE	0304 0608	-5.10		0836 1121	-3.86		0316 0615	-6.17		0536 0821	3.33		
	1009 1249	4.43	TH	1445 1731	3.47	FR	1043 1325	4.80	SA	1213 1424	-3.14		
	1708 1930	-4.13		2124			1744 1957	-4.22		1721 2015	2.55		
	2305						2328			2304			
<b>2</b>	0137 0137	2.74	<b>10</b>	0001 0001	-4.27	<b>18</b>	0203 0416	3.08	<b>26</b>	0201 0629	-4.71		
	0343 0644	-5.18		0359 0650	2.67		0714 0812	-6.22		0915 1325	3.47		
TH	1045 1325	4.51	FR	0945 1221	-3.45	SA	1136 1415	4.73	SU	1534 1840	-2.93		
	1742 2008	-4.22		1529 1816	3.10		1828 2044	-4.46		2128 2350	2.18		
	2340			2159									
<b>3</b>	0213 0213	2.82	<b>11</b>	0042 0453	-4.40	<b>19</b>	0018 0517	0300 0812	3.27	<b>27</b>	0257 0719	-4.59	
	0421 0719	-5.19		0756 1331	2.95		0812 1226	-6.05		1006 1430	3.67		
FR	1121 1402	4.51	SA	1815 2044	-4.25		1504 1910	4.58	MO	1641 2001	-2.98		
	1847 2117	-4.23		1626 1916	2.65		2129 2199	-4.68		2234 2350	1.99		
	2239												
<b>4</b>	0014 0014	0246	<b>12</b>	0129 0553	-4.58	<b>20</b>	0109 0619	0356 0910	3.36	<b>28</b>	0039 0719	0353	-4.55
	0458 0752	-5.13		0902 1234	3.38		0910 1313	-5.69		0808 1430	1052	3.88	
SA	1155 1437	4.45	SU	1847 2117	-4.23		1553 1949	4.37	TU	1641 2107	1739	-3.22	
	1847 2117	-4.23		2039 2174	2.29		21213 2213	-4.88		2331 2350	1.99		
	2325												
<b>5</b>	0046 0046	0318	<b>13</b>	0223 0654	-4.85	<b>21</b>	0201 0723	0449 1008	3.38	<b>29</b>	0129 0853	0445	-4.60
	0535 0826	-5.01		1000 1357	3.85		1008 1357	-5.17		1136 1609	1136	4.07	
SU	1229 1511	4.34	MO	1511 1919	-2.94		1640 1949	4.13	WE	1828 2027	1828	-3.50	
	2149 2149	-4.19		2157 2157	2.17		2255 2255	-5.01		2159			
	2235												
<b>6</b>	0119 0119	0350	<b>14</b>	0018 0754	-5.19	<b>22</b>	0254 0829	0540 1105	3.34	<b>30</b>	0022 0219	0534	-2.15
	0614 0903	-4.82		0321 1052	4.27		0540 1105	-4.58		0534 0936	1218	4.21	
MO	1301 1545	4.19	TU	1507 2036	-3.27		1726 2337	3.85	TH	1218 1648	1910	-3.74	
	1950 2220	-4.16		2307 2307	2.24		2337 2337	-5.06		2242			
	2242												
<b>7</b>	0154 0154	0425	<b>15</b>	0116 0852	-5.58	<b>23</b>	0348 0941	0632 1206	3.28				
	0654 0943	-4.57		0419 1143	4.58		1206 1526	-4.01					
TU	1334 1619	4.00	WE	1605 1819	-3.66		1814 2142	3.49					
	2252 2252	-4.16		2141									
	2237												
<b>8</b>	0231 0231	0505	<b>16</b>	0009 0216	2.50	<b>24</b>	0021 0442	0517 0726	5.01				
	0740 1029	-4.24		0517 1234	-5.93		0726 1057	3.27					
WE	1408 1654	3.77	TH	0948 1657	4.76		1314 1618	-3.52					
	2052 2325	-4.19		1910 1910	-3.97		1908 2222	3.04					
	2237												

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

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

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**July - 2022**

	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate			
<b>1</b>	0107 0307	0238 0616	2.38 -4.84	<b>9</b>	0333 0937	0628 1202	3.25 -3.55	<b>17</b>	0413 1125	0709 1404	3.26 -5.98	<b>25</b>	0113 0540	0827 1451	-4.79 3.44
FR	1017 1723	1259 1947	4.31 -3.93	SA	1504 2110	1748 2110	3.25	SU	1805	2025	-4.66	MO	1243 1737	1451 2022	-2.72 1.95
	2319									2252					
<b>2</b>	0148 0353	0259 0655	2.59 -4.92	<b>10</b>	0421 0516	0723 0823	3.41 3.62	<b>18</b>	0520 0623	0810 0906	3.55 -5.85	<b>26</b>	0205 0631	0448 0921	-4.48 3.48
SA	1056 1755	1338 2021	4.34 -4.06	SU	1050 1554	1307 1834	-3.15 2.79	MO	1214 1842	1453 2110	4.50 -5.06	TU	1350 1900	1559 2136	-2.52 1.61
	2354				2145					2342					
<b>3</b>	0227 0436	0275 0732	2.75 -4.95	<b>11</b>	0044 0516	0524 0823	3.62	<b>19</b>	0058 0623	0349 0906	3.69 -5.50	<b>27</b>	0304 0725	0427 1015	-4.27 3.58
SU	1133 1825	1415 2053	4.33 -4.19	MO	1210 1657	1419 1937	-2.80 2.29	TU	1258 1918	1539 2151	4.35 -5.39	WE	1452 2025	1706 2246	-2.64 1.58
	2230														
<b>4</b>	0028 0519	0304 0809	2.85 -4.89	<b>12</b>	0138 0618	0531 0924	3.72 3.89	<b>20</b>	0148 0725	0435 1000	3.72 -5.02	<b>28</b>	0041 0819	0407 1107	-4.22 3.74
MO	1207 1853	1451 2122	4.27 -4.32	TU	1332 1820	1537 2100	-2.66 1.95	WE	1340 1952	1622 2230	4.14 -5.57	TH	1544 2129	1802 2347	-3.00 1.81
	2327														
<b>5</b>	0102 0602	0340 0849	2.91 -4.76	<b>13</b>	0241 0723	0540 1023	3.67 4.16	<b>21</b>	0236 0826	0520 1052	3.67 -4.50	<b>29</b>	0143 0910	0505 1156	-4.33 3.91
TU	1240 1919	1525 2151	4.18 4.46	WE	1446 1952	1654 2225	-2.87 1.98	TH	1419 2026	1703 2307	3.87 -5.58	FR	1625 2217	1846 2217	-3.39
<b>6</b>	0136 0647	0416 0932	2.96 -4.55	<b>14</b>	0037 0829	0347 1120	-5.53 4.39	<b>22</b>	0322 0929	0604 1148	3.59 -4.00	<b>30</b>	0041 0242	0407 0554	2.19 -4.53
WE	1313 1946	1559 2220	4.04 -4.63	TH	1548 2112	1759 2344	-3.32 2.35	FR	1459 2112	1743 2345	3.51 -5.42	SA	0956 1659	1241 1922	4.06 -3.73
										2256					
<b>7</b>	0212 0737	0456 1017	3.04 -4.28	<b>15</b>	0151 0932	0456 1217	-5.73 4.54	<b>23</b>	0406 1032	0650 1247	3.51 -3.55	<b>31</b>	0129 0336	0259 0637	2.59 -4.72
TH	1347 2012	1633 2250	3.85 -4.80	FR	1640 2217	1852 2313	-3.79	SA	1543 2133	1824 2210	3.04	SU	1038 1728	1322 1954	4.17 -4.04
										2332					
<b>8</b>	0250 0833	0539 1106	3.13 -3.94	<b>16</b>	0054 0304	0284 0604	2.84 -5.92	<b>24</b>	0027 0452	0027 0737	-5.13 3.45				
FR	1423 2040	1709 2323	3.60 -4.98	SA	1031 1724	1312 1939	4.61 -4.23	SU	1136 1633	1347 1915	-3.12 2.48				
					2313				2210						

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

○ First Quarter

◎ Full Moon

● Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**August - 2022**

	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate			
<b>1</b>	0210	2.92	<b>9</b>	0010	-5.56	<b>17</b>	0039	0327	4.02	<b>25</b>	0215	-3.98			
	0426	0719	-4.85	0446	0746	3.65	0622	0900	-5.30		0640	0938	3.22		
MO	1116	1400	4.22	TU	1145	1352	-2.78	WE	1242	1522	4.24	TH	1407	1621	-2.21
	1754	2023	-4.34		1623	1856	2.37		1840	2122	-5.86		1932	2203	1.38
	2153														
<b>2</b>	0005	0247	3.17	<b>10</b>	0106	-5.40	<b>18</b>	0123	0407	4.03	<b>26</b>	0002	0327	-3.83	
	0512	0800	-4.88		0549	0854	3.73		0717	0947	-4.91		0745	1043	3.37
TU	1150	1436	4.21	WE	1306	1507	-2.48	TH	1320	1601	4.04	FR	1506	1726	-2.64
	1819	2051	-4.64		1740	2020	1.92		1912	2157	-5.94		2053	2319	1.73
	2258														
<b>3</b>	0038	0323	3.36	<b>11</b>	0214	-5.22	<b>19</b>	0204	0447	3.96	<b>27</b>	0118	0438	-3.94	
	0558	0841	-4.81		0700	1002	3.89		0809	1034	-4.49		0845	1139	3.59
WE	1224	1509	4.14	TH	1422	1627	-2.64	FR	1356	1635	3.78	SA	1549	1812	-3.22
	1843	2119	-4.94		1922	2207	1.97		1943	2230	-5.82		2145		
	2258														
<b>4</b>	0111	0358	3.50	<b>12</b>	0022	0331	-5.16	<b>20</b>	0243	0525	3.83	<b>28</b>	0018	2.31	
	0644	0923	-4.65		0814	1107	4.08		0900	1121	-4.09		0229	0534	-4.23
TH	1257	1542	4.03	FR	1524	1738	-3.23	SA	1431	1708	3.45	SU	0936	1226	3.81
	1907	2147	-5.21		2054	2337	2.52		2014	2306	-5.54		1621	1846	-3.75
	2225														
<b>5</b>	0146	0434	3.60	<b>13</b>	0149	0450	-5.31	<b>21</b>	0322	0606	3.68	<b>29</b>	0105	2.89	
	0733	1006	-4.40		0921	1207	4.26		0950	1210	-3.67		0330	0621	-4.53
FR	1332	1615	3.86	SA	1613	1832	-3.89	SU	1507	1741	3.05	MO	1020	1306	3.98
	1932	2216	-5.43		2202				2046	2343	-5.14		1647	1917	-4.24
	2300														
<b>6</b>	0224	0512	3.65	<b>14</b>	0050	3.16	<b>22</b>	0402	0648	3.52	<b>30</b>	0145	3.35		
	0826	1053	-4.07		0309	0605	-5.56		1044	1302	-3.21		0422	0707	-4.76
SA	1407	1649	3.62	SU	1021	1303	4.38	MO	1548	1819	2.55	TU	1059	1344	4.06
	1959	2248	-5.58		1655	1920	-4.51		2120				1711	1946	-4.69
	2253														
<b>7</b>	0305	0555	3.67	<b>15</b>	0153	3.63	<b>23</b>	0025	-4.72	<b>31</b>	0219	3.69			
	0925	1145	-3.67		0420	0710	-5.69		0446	0735	3.36		0509	0750	-4.87
SU	1445	1724	3.30	MO	1114	1354	4.42	TU	1145	1400	-2.69	WE	1135	1419	4.06
	2030	2325	-5.63		1732	2006	-5.08		1637	1913	1.98		1736	2015	-5.12
	2351														
<b>8</b>	0352	0645	3.65	<b>16</b>	0243	3.91	<b>24</b>	0115	-4.31						
	1030	1245	-3.23		0524	0808	-5.59		0538	0832	3.23				
MO	1528	1803	2.88	TU	1200	1440	4.37	WE	1255	1506	-2.25				
	2106				1807	2046	-5.56		1749	2036	1.48				
	2254														

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols    ● New Moon    ○ First Quarter    □ Full Moon    ◉ Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## September - 2022

	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	
<b>1</b>	0006 0252	3.92		<b>9</b>	0205 0470	-4.70	<b>17</b>	0124 0406	4.21	<b>25</b>	0106 0408	-3.51	
	0554 0834	-4.87			0644 0946	3.55		0742 1011	-4.55		0813 1118	3.23	
TH	1210 1452	4.00		FR	1348 1601	-2.84	SA	1332 1607	3.59	SU	1448 1722	-3.31	
	1800 2043	-5.49			1915 2211	2.27		1900 2150	-5.78		2103 2348	2.71	
<b>2</b>	0041 0326	4.06		<b>10</b>	0032 0332	-4.60	<b>18</b>	0159 0441	4.06	<b>26</b>	0224 0514	-3.87	
	0640 0916	-4.74			0803 1058	3.74		0823 1050	-4.23		0911 1205	3.47	
FR	1245 1524	3.88		SA	1449 1712	-3.52	SU	1405 1635	3.33	MO	1523 1758	-3.97	
	1826 2112	-5.77		(○)	2044 2337	2.97	(○)	1931 2224	-5.42	(●)	2144		
<b>3</b>	0117 0402	4.11		<b>11</b>	0204 0458	-4.83	<b>19</b>	0234 0517	3.87	<b>27</b>	0031 0331	3.37	
	0726 0958	-4.51			0913 1201	3.95		0904 1132	-3.86		0327 0608	-4.28	
SA	1319 1556	3.72		SU	1536 1808	-4.28	MO	1437 1705	3.02	TU	0959 1246	3.65	
	1854 2142	-5.91			2148			2003 2301	-5.00		1552 1831	-4.58	
										2221			
<b>4</b>	0156 0439	4.08		<b>12</b>	0042 3.59		<b>20</b>	0312 0555	3.63	<b>28</b>	0107 0327	3.87	
	0816 1043	-4.17			0323 0611	-5.15		0950 1218	-3.42		0418 0656	-4.59	
SU	1354 1629	3.52		MO	1011 1255	4.11	TU	1512 1739	2.61	WE	1041 1323	3.73	
(●)	1925 2216	-5.91			1616 1855	-4.98		2038 2342	-4.56		1620 1902	-5.14	
					2241					2256			
<b>5</b>	0238 0521	3.96		<b>13</b>	0132 4.00		<b>21</b>	0353 0638	3.34	<b>29</b>	0142 0504	4.22	
	0909 1131	-3.77			0428 0711	-5.30		1043 1307	-2.90		0743 0743	-4.78	
MO	1430 1703	3.24		TU	1101 1343	4.16	WE	1554 1823	2.09	TH	1119 1359	3.74	
	1959 2257	-5.75			1653 1935	-5.56		2120			1648 1932	-5.62	
					2328					2333			
<b>6</b>	0325 0612	3.77		<b>14</b>	0214 4.24		<b>22</b>	0030 -4.11		<b>30</b>	0217 0549	4.44	
	1009 1226	-3.32			0524 0803	-5.26		0442 0736	3.03		0826 0826	-4.83	
TU	1511 1742	2.86		WE	1145 1425	4.11	TH	1148 1407	-2.41	FR	1156 1432	3.70	
	2041 2346	-5.45			1726 2011	-5.94		1657 1944	1.54		1718 2004	-5.97	
							2217						
<b>7</b>	0420 0714	3.57		<b>15</b>	0009 0253	4.34	<b>23</b>	0133 -3.69					
	1118 1327	-2.89			0614 0849	-5.09		0545 0856	2.86				
WE	1604 1836	2.36		TH	1224 1503	3.99	FR	1300 1520	-2.25				
	2137				1759 2045	-6.09		1838 2127	1.45				
							2337						
<b>8</b>	0049 -5.05			<b>16</b>	0048 0330	4.32	<b>24</b>	0250 -3.43					
	0526 0829	3.48			0700 0931	-4.84		0700 1017	2.98				
TH	1234 1440	-2.62		FR	1259 1537	3.81	SA	1403 1631	-2.63				
	1725 2014	1.98			1829 2118	-6.02		2009 2250	1.96				
										2256			

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

(●) New Moon

(○) First Quarter

(○) Full Moon

(●) Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**October - 2022**

	Slack	Maximum		Slack	Maximum		Slack	Maximum		Slack	Maximum	
	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate
<b>1</b>	0010 0254	4.54	<b>9</b>	0057 0343	-4.06	<b>17</b>	0116 0358	4.25	<b>25</b>	0217 0451	-3.45	
	0632 0909	-4.75		0750 1049	3.40		0748 1022	-4.35		0838 1130	2.94	
SA	1233 1505	3.62	SU	1401 1641	-4.04	MO	1341 1607	3.17	TU	1411 1657	-4.27	
	1749 2036	-6.14		2030 2326	3.43		1853 2145	-5.23		2057 2349	3.82	
<b>2</b>	0049 0332	4.50	<b>10</b>	0224 0506	-4.35	<b>18</b>	0150 0431	4.05	<b>26</b>	0319 0551	-3.93	
	0717 0950	-4.54		0901 1151	3.59		0824 1058	-4.05		0933 1216	3.12	
SU	1308 1537	3.51	MO	1450 1734	-4.74	TU	1413 1637	2.93	WE	1449 1736	-4.91	
	1823 2112	-6.13	O	2127		O	1927 2221	-4.83		2139		
<b>3</b>	0131 0412	4.36	<b>11</b>	0017 3.94	<b>19</b>	0226 0506	3.78	<b>27</b>	0027 4.29			
	0804 1032	-4.25		0333 0611	-4.66		0904 1138	-3.70		0410 0644	-4.31	
MO	1344 1611	3.35	TU	0958 1243	3.71	WE	1447 1712	2.60	TH	1021 1258	3.24	
O	1859 2151	-5.92		1532 1818	-5.35		2004 2304	-4.39		1526 1812	-5.49	
	2215						2220					
<b>4</b>	0214 0455	4.11	<b>12</b>	0059 4.30	<b>20</b>	0304 0545	3.45	<b>28</b>	0106 4.62			
	0853 1118	-3.91		0429 0706	-4.86		0949 1222	-3.32		0457 0731	-4.55	
TU	1421 1649	3.10	WE	1047 1329	3.75	TH	1530 1757	2.18	FR	1103 1336	3.32	
	1942 2238	-5.54		1610 1857	-5.78		2051 2354	-3.91		1602 1849	-5.95	
	2257						2302					
<b>5</b>	0303 0546	3.80	<b>13</b>	0139 4.51	<b>21</b>	0347 0633	3.04	<b>29</b>	0145 4.78			
	0947 1209	-3.56		0517 0753	-4.92		1041 1312	-2.99		0541 0816	-4.65	
WE	1507 1735	2.75	TH	1128 1408	3.71	FR	1628 1913	1.78	SA	1143 1412	3.35	
	2034 2337	-5.03		1644 1932	-6.00		2156			1640 1928	-6.23	
	2335						2343					
<b>6</b>	0358 0648	3.47	<b>14</b>	0216 4.58	<b>22</b>	0100 -3.42	<b>30</b>	0226 4.80				
	1049 1306	-3.26		0559 0834	-4.88		0442 0751	2.67		0624 0858	-4.64	
TH	1608 1849	2.34	FR	1205 1443	3.61	SA	1138 1412	-2.86	SU	1220 1447	3.35	
	2145			1717 2006	-6.01		1752 2049	1.83		1719 2008	-6.29	
	2322											
<b>7</b>	0048 -4.49	<b>15</b>	0009 0251	4.53	<b>23</b>	0216 -3.07	<b>31</b>	0026 0308	4.68			
	0505 0807	3.25		0637 0911	-4.77		0557 0929	2.59		0708 0939	-4.53	
FR	1156 1414	-3.14	SA	1239 1513	3.49	SU	1236 1516	-3.09	MO	1258 1524	3.31	
	1736 2039	2.28		1749 2039	-5.85		1913 2211	2.44		1800 2051	-6.11	
	2318											
<b>8</b>	0211 -4.09	<b>16</b>	0043 0325	4.42	<b>24</b>	0057 0337	-3.07					
	0626 0931	3.23		0712 0946	-4.59		0725 1037	2.73				
SA	1303 1531	-3.41	SU	1310 1540	3.34	MO	1327 1612	-3.62				
	1915 2215	2.80		1820 2112	-5.58		2011 2307	3.19				

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols    ● New Moon    ○ First Quarter    ○ Full Moon    ◉ Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

**November - 2022**

	Slack	Maximum		Slack	Maximum		Slack	Maximum		Slack	Maximum				
	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate			
<b>1</b>	0111	0351	4.46	<b>9</b>	0335	0601	-4.18	<b>17</b>	0149	0431	3.91	<b>25</b>	0358	0624	-3.90
	0752	1021	-4.37		0942	1222	3.17		0828	1105	-4.03		0956	1224	2.69
TU	1338	1604	3.19	WE	1445	1738	-5.38	TH	1432	1659	2.62	FR	1435	1726	-5.66
●	1847	2139	-5.73		2143				1943	2236	-4.29		2148		
<b>2</b>	0157	0437	4.17	<b>10</b>	0025	0443		<b>18</b>	0223	0506	3.62	<b>26</b>	0035	0475	
	0838	1105	-4.19		0423	0652	-4.42		0904	1142	-3.86		0446	0715	-4.19
WE	1423	1652	3.00	TH	1030	1309	3.21	FR	1514	1748	2.38	SA	1043	1311	2.90
	1940	2236	-5.20		1526	1819	-5.63		2035	2328	-3.81		1523	1813	-6.05
					2223							2236			
<b>3</b>	0246	0528	3.81	<b>11</b>	0104	4.59		<b>19</b>	0302	0545	3.25	<b>27</b>	0120	4.86	
	0925	1152	-4.03		0504	0736	-4.57		0943	1222	-3.73		0532	0800	-4.37
TH	1516	1757	2.75	FR	1111	1349	3.23	SA	1606	1854	2.25	SU	1127	1355	3.08
	2046	2341	-4.60		1604	1857	-5.74		2143				1611	1901	-6.27
					2259							2324			
<b>4</b>	0339	0627	3.45	<b>12</b>	0140	4.63		<b>20</b>	0030	-3.31		<b>28</b>	0206	4.83	
	1016	1244	-3.91		0541	0814	-4.64		0347	0635	2.81		0615	0844	-4.49
FR	1623	1917	2.62	SA	1147	1424	3.21	SU	1026	1308	-3.71	MO	1209	1439	3.20
	2208				1639	1932	-5.70		1709	2012	2.42		1701	1951	-6.25
					2334				2308						
<b>5</b>	0054	-4.02		<b>13</b>	0215	4.60		<b>21</b>	0142	-2.89		<b>29</b>	0012	0252	4.68
	0442	0740	3.13		0615	0850	-4.62		0449	0759	2.40		0658	0926	-4.57
SA	1112	1344	-3.89	SU	1220	1455	3.17	MO	1112	1401	-3.83	TU	1253	1526	3.24
	1744	2043	2.79		1714	2006	-5.56		1816	2125	2.93		1753	2044	-6.01
	2345														
<b>6</b>	0219	-3.63		<b>14</b>	0008	0250	4.50	<b>22</b>	0039	0303	-2.75	<b>30</b>	0059	0339	4.46
	0601	0905	2.96		0648	0924	-4.54		0617	0927	2.23		0739	1008	-4.64
SU	1211	1452	-4.08	MO	1252	1521	3.11	TU	1203	1456	-4.14	WE	1339	1618	3.22
	1902	2201	3.23		1749	2039	-5.33		1917	2221	3.53		1849	2140	-5.57
<b>7</b>	0118	0347	-3.61	<b>15</b>	0042	0323	4.35	<b>23</b>	0200	0421	-3.03				
	0728	1024	2.99		0721	0958	-4.40		0750	1035	2.29				
MO	1308	1559	-4.50	TU	1323	1549	3.00	WE	1255	1550	-4.61				
	2006	2258	3.71		1824	2114	-5.05		2010	2308	4.07				
<b>8</b>	0235	0501	-3.87	<b>16</b>	0115	0357	4.16	<b>24</b>	0304	0528	-3.50				
	0842	1128	3.08		0754	1030	-4.22		0901	1134	2.46				
TU	1359	1653	-4.98	WE	1356	1622	2.84	TH	1346	1639	-5.15				
●	2059	2343	4.13	●	1901	2152	-4.70	●	2100	2351	4.48				

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

○ First Quarter

○ Full Moon

● Last Quarter

# AUSTRALIA, SOUTH COAST - THE RIP

LAT 38°18'S LONG 144°38'E TIME ZONE - 1000  
TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## December - 2022

	Slack	Maximum		Slack	Maximum		Slack	Maximum		Slack	Maximum				
	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate			
<b>1</b>	0145	0426	4.19	<b>9</b>	0409	0631	-3.96	<b>17</b>	0155	0440	3.78	<b>25</b>	0011	4.63	
	0820	1050	-4.69		1011	1242	2.61		0827	1106	-4.47		0434	0655	-3.80
TH	1429	1715	3.15	FR	1444	1747	-5.20	SA	1458	1741	2.79	SU	1021	1248	2.60
●	1952	2240	-5.01		2150				2027	2308	-3.90		1454	1749	-5.93
												2219			
<b>2</b>	0232	0515	3.88	<b>10</b>	0032	0432	4.43	<b>18</b>	0230	0516	3.49	<b>26</b>	0103	4.72	
	0900	1133	-4.71		0449	0715	-4.17		0856	1139	-4.51		0520	0743	-4.14
FR	1525	1814	3.08	SA	1053	1326	2.75	SU	1541	1834	2.83	MO	1111	1344	2.99
	2104	2344	-4.38		1529	1828	-5.29		2131				1556	1848	-6.13
					2230							2312			
<b>3</b>	0321	0609	3.54	<b>11</b>	0111	0449	4.49	<b>19</b>	0005	0223	-3.43	<b>27</b>	0153	4.70	
	0942	1218	-4.70		0525	0754	-4.31		0310	0555	3.12		0602	0828	-4.47
SA	1626	1916	3.07	SU	1130	1405	2.86	MO	0928	1216	-4.57	TU	1159	1440	3.27
	2226				1610	1907	-5.31		1630	1933	2.99		1656	1947	-6.14
					2307				2246						
<b>4</b>	0055	-3.79		<b>12</b>	0148	0449	4.49	<b>20</b>	0110	-2.98		<b>28</b>	0003	0243	4.60
	0417	0708	3.16		0558	0831	-4.40		0401	0645	2.64		0642	0912	-4.80
SU	1027	1310	-4.67	MO	1204	1440	2.94	TU	1004	1259	-4.64	WE	1248	1535	3.45
	1731	2022	3.19		1649	1944	-5.26		1726	2037	3.29		1757	2045	-5.93
	2355				2343										
<b>5</b>	0213	-3.37		<b>13</b>	0225	0443	4.43	<b>21</b>	0009	0223	-2.67	<b>29</b>	0051	0330	4.44
	0527	0822	2.77		0629	0904	-4.43		0510	0758	2.11		0719	0952	-5.12
MO	1117	1409	-4.67	TU	1237	1513	2.97	WE	1048	1350	-4.75	TH	1337	1625	3.52
	1835	2126	3.45		1728	2020	-5.13		1825	2136	3.69		1859	2143	-5.51
<b>6</b>	0118	0331	-3.25	<b>14</b>	0017	0300	4.32	<b>22</b>	0132	0342	-2.65	<b>30</b>	0136	0416	4.22
	0652	0942	2.52		0700	0937	-4.44		0641	0923	1.81		0755	1031	-5.37
TU	1210	1510	-4.74	WE	1310	1545	2.95	TH	1141	1449	-4.95	FR	1428	1713	3.53
	1933	2220	3.77		1807	2057	-4.92		1926	2228	4.08	●	2003	2240	-4.96
<b>7</b>	0227	0442	-3.40	<b>15</b>	0050	0334	4.18	<b>23</b>	0243	0458	-2.97	<b>31</b>	0219	0502	3.97
	0814	1052	2.44		0729	1006	-4.43		0814	1040	1.84		0831	1110	-5.49
WE	1305	1608	-4.89	TH	1344	1618	2.89	FR	1244	1549	-5.25	SA	1518	1803	3.49
	2024	2308	4.06		1848	2136	-4.65		2025	2320	4.41		2111	2339	-4.35
<b>8</b>	0323	0541	-3.68	<b>16</b>	0123	0407	4.00	<b>24</b>	0342	0601	-3.41				
	0920	1152	2.49		0758	1036	-4.44		0925	1148	2.17				
TH	1357	1701	-5.06	FR	1419	1657	2.83	SA	1350	1650	-5.61				
●	2109	2351	4.29	●	1934	2219	-4.31		2123						

Predictions for The Rip computed by Cardno Pty Ltd; Positive (+) Direction 038° Negative (-) Direction 200°

When daylight saving time is in force, add one hour to times

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

# Port Welshpool Pier

## *Time Differences for Supplementary Locations*

*- Based on Port Welshpool Pier*

Location	Time diff (earlier) later HM	Rise of tide	
		Springs	Neaps
metres			
<i>Port Welshpool (Rabbit Island)</i>	(1 20)	2.4	2.1
<i>Franklin Spit Light</i>	(0 40)	2.4	1.9
<i>Fishermans Wharf (Franklin River)</i>	(0 36)	2.7	2.0
<i>Bennison Channel</i>	(0 30)	2.4	2.0
<i>Port Albert Front Lead</i>	(0 30)	2.1	1.6
<i>No. 3 Franklin Channel Light</i>	(0 20)	2.5	2.0
<i>No. 2 Lewis Channel Light</i>	(0 20)	2.4	1.9
Port Albert Pier	0 00	2.1	1.6
<b>Port Welshpool Pier</b>	<b>0 00</b>	<b>2.6</b>	<b>1.7</b>

# Port Welshpool Pier Datums

Latitude 38°42' S. Longitude 146°28' E (WGS84)

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
1.52	Highest recorded tide 18/08/2013 (2001-2019)	3.12
1.65	Highest Astronomical Tide (HAT)	2.95
0.95	Mean High Water Springs (MHWS)	2.55
0.59	Mean High Water Neaps (MHWN)	2.19
<b>0.000</b>	<b>Australian Height Datum</b>	<b>1.51</b>
-0.56	Mean Low Water Neaps (MLWN)	1.04
-0.92	Mean Low Water Springs (MLWS)	0.68
<b>-1.51</b>	<b>Chart &amp; Prediction Datum</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-1.94	Lowest recorded tide 09/11/2017 (2001-2019)	-0.34

Port Welsh

Information supplied by Commonwealth of Australia, Bureau of Meteorology,  
Gippsland Ports & Australian Hydrographic Office

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0347	1.10		<b>9</b>	0624	2.70		<b>17</b>	0018	2.18	<b>25</b>	0608	2.55
	0929	2.55			1233	0.63		<b>17</b>	0528	1.41		1228	0.66
SA	1637	0.25		SU	1832	2.36		MO	1043	2.18	TU	1831	2.31
	2331	2.35							1808	0.56	●		
<b>2</b>	0453	1.21		<b>10</b>	0034	0.55		<b>18</b>	0117	2.22	<b>26</b>	0024	0.71
	1029	2.50			0659	2.64			0629	1.43		0637	2.57
SU	1741	0.18		MO	1319	0.56		TU	1143	2.13	WE	1309	0.52
●				●	1921	2.31		○	1901	0.56		1923	2.35
<b>3</b>	0048	2.43		<b>11</b>	0117	0.72		<b>19</b>	0215	2.27	<b>27</b>	0107	0.79
	0607	1.27			0730	2.57			0730	1.40		0707	2.60
MO	1139	2.45		TU	1400	0.52		WE	1249	2.10	TH	1350	0.38
●	1849	0.13			2007	2.26			1954	0.54		2014	2.38
<b>4</b>	0200	2.52		<b>12</b>	0158	0.88		<b>20</b>	0305	2.34	<b>28</b>	0151	0.88
	0723	1.24			0758	2.50			0828	1.33		0741	2.63
TU	1254	2.42		WE	1439	0.51		TH	1354	2.10	FR	1433	0.27
	1955	0.10			2052	2.22			2044	0.53		2106	2.39
<b>5</b>	0307	2.61		<b>13</b>	0234	1.02		<b>21</b>	0350	2.40	<b>29</b>	0238	0.98
	0835	1.15			0823	2.43			0922	1.22		0821	2.63
WE	1408	2.41		TH	1515	0.52		FR	1455	2.13	SA	1521	0.20
	2058	0.12			2137	2.19			2130	0.53		2202	2.38
<b>6</b>	0405	2.69		<b>14</b>	0311	1.15		<b>22</b>	0430	2.45	<b>30</b>	0330	1.07
	0943	1.02			0848	2.36			1014	1.10		0909	2.61
TH	1522	2.40		FR	1552	0.53		SA	1552	2.16	SU	1614	0.17
	2158	0.17			2226	2.17			2215	0.55		2305	2.36
<b>7</b>	0457	2.73		<b>15</b>	0350	1.26		<b>23</b>	0505	2.49	<b>31</b>	0428	1.16
	1045	0.87			0917	2.30			1101	0.96		1005	2.54
FR	1634	2.40		SA	1632	0.55		SU	1647	2.20	MO	1715	0.19
	2255	0.27			2320	2.17			2259	0.59			
<b>8</b>	0543	2.74		<b>16</b>	0435	1.35		<b>24</b>	0538	2.52			
	1143	0.73			0955	2.24			1145	0.81			
SA	1737	2.39		SU	1717	0.56		MO	1740	2.25			
	2346	0.40							2342	0.64			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0015	2.35		<b>9</b>	0100	0.80		<b>17</b>	0116	2.11	
	0536	1.21			0700	2.53			0634	1.36	
TU	1113	2.45		WE	1330	0.43		TH	1201	2.07	
●	1823	0.23			1947	2.38		○	1913	0.69	
<b>2</b>	0128	2.37		<b>10</b>	0135	0.90		<b>18</b>	0216	2.16	
	0655	1.21			0725	2.50			0745	1.29	
WE	1232	2.36		TH	1403	0.42		FR	1324	2.05	
	1933	0.27			2025	2.36			2012	0.70	
<b>3</b>	0239	2.44		<b>11</b>	0207	0.99		<b>19</b>	0308	2.24	
	0814	1.11			0749	2.46			0850	1.15	
TH	1356	2.31		FR	1435	0.43		SA	1441	2.09	
	2042	0.32			2101	2.33			2107	0.70	
<b>4</b>	0341	2.52		<b>12</b>	0237	1.07		<b>20</b>	0353	2.33	
	0927	0.96			0814	2.43			0948	0.96	
FR	1520	2.30		SA	1508	0.46		SU	1550	2.18	
	2145	0.38			2140	2.29			2200	0.72	
<b>5</b>	0434	2.58		<b>13</b>	0308	1.15		<b>21</b>	0432	2.40	
	1030	0.78			0843	2.38			1040	0.77	
SA	1635	2.34		SU	1544	0.50		MO	1651	2.29	
	2244	0.46			2222	2.22			2249	0.74	
<b>6</b>	0519	2.61		<b>14</b>	0344	1.23		<b>22</b>	0510	2.47	
	1126	0.62			0917	2.31			1126	0.58	
SU	1735	2.37		MO	1626	0.55		TU	1746	2.39	
	2335	0.56			2311	2.16			2336	0.77	
<b>7</b>	0558	2.60		<b>15</b>	0428	1.30		<b>23</b>	0545	2.52	
	1213	0.51			0959	2.23			1210	0.43	
MO	1826	2.39		TU	1715	0.61			WE	1837	2.48
<b>8</b>	0020	0.68		<b>16</b>	0011	2.11		<b>24</b>	0020	0.82	
	0630	2.57			0525	1.36			0617	2.57	
TU	1253	0.45		WE	1051	2.14			1252	0.30	
●	1909	2.39			1813	0.66		○	1925	2.52	

Port Welshpool

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## MARCH – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0408	1.08		<b>9</b>	0000	0.83		<b>17</b>	0436	1.24	<b>25</b>	0010	0.91
	0948	2.49			0555	2.47			1013	2.14		0554	2.57
TU	1648	0.33		WE	1217	0.41		TH	1715	0.79	FR	1230	0.17
	2336	2.29			1845	2.51					●	1916	2.70
<b>2</b>	0514	1.13		<b>10</b>	0036	0.89		<b>18</b>	0000	2.08	<b>26</b>	0053	0.92
	1058	2.36			0622	2.47			0545	1.23		0632	2.60
WE	1759	0.44		TH	1250	0.39		FR	1129	2.05	SA	1313	0.16
				●	1920	2.52		○	1824	0.87		1959	2.66
<b>3</b>	0048	2.26		<b>11</b>	0108	0.94		<b>19</b>	0108	2.10	<b>27</b>	0135	0.93
	0635	1.12			0647	2.47			0705	1.14		0712	2.62
TH	1223	2.25		FR	1321	0.39		SA	1308	2.05	SU	1355	0.20
●	1914	0.53			1952	2.50			1935	0.92		2039	2.58
<b>4</b>	0201	2.29		<b>12</b>	0136	0.98		<b>20</b>	0209	2.17	<b>28</b>	0217	0.95
	0757	1.01			0714	2.47			0816	0.96		0755	2.58
FR	1356	2.21		SA	1352	0.41		SU	1435	2.15	MO	1440	0.28
	2026	0.60			2024	2.46			2042	0.93		2119	2.48
<b>5</b>	0308	2.36		<b>13</b>	0203	1.02		<b>21</b>	0302	2.26	<b>29</b>	0303	0.98
	0908	0.84			0741	2.45			0917	0.74		0844	2.50
SA	1524	2.27		SU	1424	0.44		MO	1548	2.32	TU	1529	0.41
	2131	0.65			2057	2.39			2141	0.92		2204	2.38
<b>6</b>	0402	2.43		<b>14</b>	0232	1.07		<b>22</b>	0350	2.36	<b>30</b>	0357	1.01
	1009	0.66			0812	2.40			1011	0.53		0942	2.37
SU	1632	2.37		MO	1458	0.51		TU	1649	2.48	WE	1626	0.57
	2229	0.70			2131	2.30			2235	0.92		2259	2.29
<b>7</b>	0447	2.46		<b>15</b>	0305	1.13		<b>23</b>	0434	2.44	<b>31</b>	0503	1.03
	1059	0.53			0845	2.33			1100	0.36		1056	2.23
MO	1725	2.44		TU	1535	0.59		WE	1743	2.61	TH	1736	0.74
	2318	0.76			2211	2.21			2324	0.91			
<b>8</b>	0524	2.47		<b>16</b>	0345	1.19		<b>24</b>	0515	2.51			
	1141	0.45			0922	2.25			1145	0.24			
TU	1808	2.49		WE	1619	0.69			1831	2.68			
					2300	2.13							

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## APRIL – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0004	2.24		<b>9</b>	0035	1.03		<b>17</b>	0629	0.92		<b>25</b>	0125	0.94
	0621	0.99			0606	2.44			1301	2.15			0702	2.57
FR	1228	2.16		SA	1237	0.43		SU	1857	1.15		MO	1335	0.34
●	1853	0.86		○	1917	2.60		○					2019	2.64
<b>2</b>	0115	2.23		<b>10</b>	0101	1.03		<b>18</b>	0103	2.23		<b>26</b>	0211	0.94
	0737	0.87			0636	2.44			0741	0.72			0750	2.50
SA	1401	2.20		SU	1308	0.45		MO	1427	2.32		TU	1421	0.49
	2006	0.92			1946	2.55			2012	1.16			2056	2.54
<b>3</b>	0221	2.26		<b>11</b>	0130	1.05		<b>19</b>	0206	2.30		<b>27</b>	0259	0.94
	0842	0.71			0707	2.43			0844	0.51			0844	2.38
SU	1520	2.33		MO	1341	0.50		TU	1537	2.52		WE	1510	0.67
	2111	0.95			2016	2.48			2116	1.13			2136	2.44
<b>4</b>	0316	2.30		<b>12</b>	0200	1.07		<b>20</b>	0302	2.38		<b>28</b>	0354	0.94
	0936	0.58			0740	2.38			0939	0.33			0946	2.25
MO	1617	2.46		TU	1414	0.57		WE	1636	2.69		TH	1606	0.87
	2206	0.97			2047	2.40			2214	1.09			2223	2.35
<b>5</b>	0401	2.33		<b>13</b>	0232	1.09		<b>21</b>	0355	2.47		<b>29</b>	0457	0.92
	1021	0.49			0814	2.32			1030	0.21			1104	2.16
TU	1702	2.55		WE	1450	0.67		TH	1728	2.79		FR	1715	1.05
	2253	0.99			2121	2.32			2305	1.04			2319	2.27
<b>6</b>	0437	2.35		<b>14</b>	0313	1.10		<b>22</b>	0444	2.54		<b>30</b>	0604	0.86
	1100	0.45			0854	2.24			1119	0.16			1233	2.16
WE	1741	2.61		TU	1531	0.79		FR	1815	2.83		SA	1829	1.18
	2332	1.01			2200	2.25			2354	1.00				
<b>7</b>	0509	2.38		<b>15</b>	0404	1.09		<b>23</b>	0530	2.59				
	1134	0.43			0950	2.15			1206	0.16				
TH	1815	2.63		FR	1625	0.93		SA	1900	2.81				
					2250	2.21		○						
<b>8</b>	0006	1.03		<b>16</b>	0511	1.04		<b>24</b>	0040	0.96				
	0538	2.41			1117	2.09			0616	2.60				
FR	1206	0.42		SA	1735	1.06		SU	1251	0.22				
	1847	2.63			2354	2.19			1941	2.74				

Port Welshpool

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When daylight saving time is in force, add one hour to times

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0022	2.22		<b>9</b>	0028	1.13		<b>17</b>	0003	2.38		<b>25</b>	0207	0.88
SU	0708	0.76		MO	0600	2.41		TU	0706	0.50		WE	0754	2.41
●	1355	2.27		1228	0.54		1410	2.50		WE	1406	0.72		
	1939	1.23		1911	2.60		1938	1.34		2032	2.60			
<b>2</b>	0124	2.21		<b>10</b>	0059	1.12		<b>18</b>	0115	2.42		<b>26</b>	0257	0.85
MO	0805	0.65		0635	2.38		0810	0.34		0850	2.30			
MO	1500	2.42		TU	1300	0.60		WE	1517	2.67		TH	1455	0.92
	2042	1.24			1939	2.55		2046	1.29			2108	2.51	
<b>3</b>	0218	2.23		<b>11</b>	0131	1.09		<b>19</b>	0218	2.48		<b>27</b>	0347	0.83
TU	0855	0.57		0711	2.34		0908	0.22		0953	2.21			
TU	1549	2.55		WE	1334	0.67		TH	1615	2.81		FR	1547	1.13
	2134	1.23			2007	2.50		2147	1.21			2147	2.42	
<b>4</b>	0303	2.26		<b>12</b>	0208	1.06		<b>20</b>	0318	2.54		<b>28</b>	0441	0.81
WE	0936	0.51		0750	2.29		1003	0.16		1104	2.18			
WE	1630	2.64		TH	1411	0.78		FR	1708	2.88		SA	1648	1.30
	2218	1.21			2036	2.46		2244	1.13			2231	2.33	
<b>5</b>	0343	2.30		<b>13</b>	0250	1.00		<b>21</b>	0416	2.58		<b>29</b>	0536	0.77
TH	1014	0.49		0838	2.24		1055	0.18		1220	2.22			
TH	1707	2.68		FR	1455	0.91		SA	1756	2.89		SU	1754	1.41
	2256	1.19			2110	2.43		2337	1.05			2323	2.26	
<b>6</b>	0418	2.34		<b>14</b>	0342	0.92		<b>22</b>	0513	2.60		<b>30</b>	0630	0.71
FR	1048	0.48		0945	2.19		1145	0.25		1328	2.33			
FR	1741	2.69		SA	1551	1.07		SU	1841	2.85		MO	1859	1.46
	2329	1.17			2154	2.41						●		
<b>7</b>	0452	2.38		<b>15</b>	0445	0.82		<b>23</b>	0029	0.98		<b>31</b>	0019	2.22
SA	1121	0.49		1115	2.20		0607	2.58		0721	0.66			
SA	1813	2.68		SU	1700	1.23		MO	1233	0.37		TU	1424	2.46
	2359	1.15			2253	2.38		●	1921	2.78			1959	1.46
<b>8</b>	0526	2.40		<b>16</b>	0556	0.67		<b>24</b>	0118	0.92				
SU	1155	0.51		1249	2.31		0700	2.51						
SU	1843	2.64		MO	1821	1.33		TU	1320	0.53				
									1958	2.69				

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JUNE – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0114	2.22	<b>9</b>	0110	1.07	<b>17</b>	0145	2.56	<b>25</b>	0328	0.70
	0808	0.60		0653	2.32		0842	0.20		0945	2.26
	1512	2.56		1303	0.79		1552	2.80		1525	1.26
	2050	1.42		1930	2.60		2121	1.26		2110	2.47
<b>2</b>	0203	2.25	<b>10</b>	0149	0.97	<b>18</b>	0251	2.58	<b>26</b>	0412	0.70
	0850	0.57		0740	2.30		0940	0.20		1044	2.25
	1554	2.63		1344	0.89		1646	2.85		1614	1.40
	2134	1.38		1958	2.60		2223	1.14		2143	2.39
<b>3</b>	0248	2.29	<b>11</b>	0234	0.85	<b>19</b>	0359	2.58	<b>27</b>	0458	0.70
	0930	0.55		0836	2.28		1036	0.26		1145	2.27
	1632	2.67		1431	1.03		1735	2.86		1706	1.50
	2213	1.33		2032	2.60		2322	1.02		2221	2.33
<b>4</b>	0330	2.33	<b>12</b>	0325	0.72	<b>20</b>	0505	2.56	<b>28</b>	0545	0.70
	1007	0.55		0945	2.29		1130	0.38		1244	2.32
	1708	2.67		1529	1.18		1820	2.84		1803	1.56
	2249	1.29		2116	2.59					2308	2.28
<b>5</b>	0411	2.35	<b>13</b>	0422	0.59	<b>21</b>	0018	0.91	<b>29</b>	0632	0.68
	1044	0.57		1105	2.33		0607	2.52		1339	2.40
	1740	2.66		MO 1634	1.32		1221	0.53		WE 1900	1.56
	2324	1.24		2213	2.57		● 1900	2.79			
<b>6</b>	0450	2.36	<b>14</b>	0527	0.46	<b>22</b>	0111	0.81	<b>30</b>	0005	2.25
	1118	0.60		1228	2.44		0704	2.46		0721	0.65
	1810	2.64		TU 1748	1.41		WE 1309	0.71		1430	2.47
	2358	1.20		○ 2320	2.54		1935	2.72		1954	1.53
<b>7</b>	0530	2.35	<b>15</b>	0634	0.35	<b>23</b>	0159	0.75			
	1153	0.65		1344	2.58		0758	2.39			
	TU 1837	2.62		WE 1904	1.42		TH 1355	0.90			
							2008	2.64			
<b>8</b>	0033	1.14	<b>16</b>	0034	2.54	<b>24</b>	0245	0.72			
	0610	2.34		0740	0.25		0850	2.31			
	1227	0.71		TH 1452	2.70		FR 1440	1.09			
	○ 1903	2.60		2015	1.36		2039	2.55			

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Port Welsh

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**JULY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0104	2.25		<b>9</b>	0136	0.78		<b>17</b>	0237	2.53		<b>25</b>	0333	0.61
	0807	0.63			0742	2.34			0923	0.30			1006	2.31
FR	1516	2.52	SA	1330	0.99	SU	1624	2.76	MO	1533	1.35			
	2044	1.47		1930	2.68		2208	1.05		2100	2.45			
<b>2</b>	0200	2.26		<b>10</b>	0220	0.64		<b>18</b>	0354	2.52		<b>26</b>	0412	0.64
	0852	0.62			0838	2.36			1023	0.39			1055	2.28
SA	1559	2.56	SU	1417	1.10	MO	1714	2.79	TU	1613	1.43			
	2130	1.40		2007	2.70		2310	0.89		2133	2.39			
<b>3</b>	0252	2.28		<b>11</b>	0307	0.51		<b>19</b>	0507	2.51		<b>27</b>	0455	0.67
	0934	0.62			0939	2.39			1119	0.51			1149	2.26
SU	1636	2.58	MO	1512	1.21	TU	1758	2.79	WE	1700	1.50			
	2215	1.33		2052	2.70					2215	2.32			
<b>4</b>	0340	2.29		<b>12</b>	0400	0.40		<b>20</b>	0006	0.75		<b>28</b>	0543	0.70
	1014	0.65			1046	2.42			0609	2.49			1246	2.27
MO	1710	2.59	TU	1611	1.31	WE	1211	0.66	TH	1756	1.53			
	2257	1.25		2146	2.68		1837	2.76		2309	2.26			
<b>5</b>	0427	2.30		<b>13</b>	0500	0.33		<b>21</b>	0055	0.64		<b>29</b>	0636	0.71
	1051	0.69			1200	2.47			0702	2.46			1343	2.30
TU	1739	2.60	WE	1717	1.38	TH	1258	0.82	FR	1856	1.52			
	2337	1.16		2251	2.64		1910	2.70	●					
<b>6</b>	0514	2.30		<b>14</b>	0606	0.28		<b>22</b>	0139	0.59		<b>30</b>	0013	2.21
	1128	0.75			1313	2.53			0751	2.42			0729	0.71
WE	1807	2.61	TH	1832	1.39	FR	1340	0.98	SA	1436	2.35			
			○				1940	2.63		1957	1.46			
<b>7</b>	0016	1.05		<b>15</b>	0004	2.60		<b>23</b>	0219	0.58		<b>31</b>	0121	2.19
	0600	2.31			0715	0.25			0836	2.38			0819	0.71
TH	1205	0.81	FR	1423	2.61	SA	1419	1.12	SU	1523	2.40			
	1833	2.63		1948	1.33		2007	2.57		2054	1.37			
<b>8</b>	0056	0.92		<b>16</b>	0121	2.56		<b>24</b>	0257	0.59				
	0650	2.32			0820	0.26			0920	2.34				
FR	1245	0.89	SA	1528	2.69	SU	1456	1.25						
	1900	2.65		2100	1.21		2033	2.50						

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## AUGUST – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0226	2.20	<b>9</b>	0248	0.33	<b>17</b>	0508	2.50	<b>25</b>	0405	0.65
MO	0907	0.72	TU	0926	2.45	WE	1108	0.64	TH	1046	2.21
	1603	2.46		1456	1.15		1731	2.68		1606	1.35
	2147	1.25		2034	2.73		2345	0.56		2137	2.32
<b>2</b>	0325	2.22	<b>10</b>	0338	0.28	<b>18</b>	0603	2.52	<b>26</b>	0452	0.72
TU	0951	0.74	WE	1023	2.43	TH	1158	0.76	FR	1141	2.15
	1638	2.50		1549	1.22		1808	2.66		1658	1.41
	2235	1.11		2127	2.70					2226	2.22
<b>3</b>	0420	2.26	<b>11</b>	0435	0.28	<b>19</b>	0029	0.49	<b>27</b>	0548	0.78
WE	1033	0.78	TH	1128	2.41	FR	0650	2.51	SA	1245	2.13
	1710	2.54		1652	1.27		1240	0.88		1804	1.42
	2319	0.97		2230	2.62	●	1839	2.62	●	2332	2.13
<b>4</b>	0514	2.30	<b>12</b>	0541	0.31	<b>20</b>	0108	0.46	<b>28</b>	0649	0.82
TH	1115	0.83	FR	1240	2.41	SA	0730	2.49	SU	1345	2.17
	1740	2.58		1807	1.28		1318	0.98		1917	1.35
○			○	2346	2.53		1906	2.58			
<b>5</b>	0000	0.82	<b>13</b>	0653	0.35	<b>21</b>	0144	0.47	<b>29</b>	0057	2.10
FR	0605	2.36	SA	1352	2.46	SU	0809	2.45	MO	0748	0.83
	1157	0.89		1929	1.21		1352	1.07		1438	2.24
○	1808	2.62					1931	2.55		2024	1.22
<b>6</b>	0041	0.68	<b>14</b>	0112	2.46	<b>22</b>	0217	0.50	<b>30</b>	0215	2.13
SA	0655	2.41	SU	0803	0.40	MO	0845	2.41	TU	0843	0.84
	1239	0.95		1500	2.54		1422	1.15		1522	2.33
	1837	2.66		2045	1.05		1958	2.51		2121	1.04
<b>7</b>	0122	0.54	<b>15</b>	0238	2.43	<b>23</b>	0250	0.54	<b>31</b>	0324	2.21
SU	0745	2.44	MO	0911	0.46	TU	0922	2.35	WE	0934	0.85
	1322	1.02		1559	2.62		1453	1.21		1601	2.40
	1911	2.69		2154	0.86		2026	2.46		2211	0.86
<b>8</b>	0203	0.43	<b>16</b>	0400	2.46	<b>24</b>	0326	0.59			
MO	0834	2.46	TU	1013	0.54		1000	2.28			
	1407	1.09		1648	2.67		1526	1.28			
	1949	2.73		2254	0.68		2058	2.40			

Port Welsh

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0423	2.32	<b>9</b>	0412	0.35	<b>17</b>	0626	2.59	<b>25</b>	0454	0.88
	1022	0.87		1055	2.33		1216	0.91		1131	2.07
TH	1637	2.47	FR	1634	1.13	SA	1800	2.51	SU	1722	1.24
	2257	0.69		2220	2.48					2310	2.05
<b>2</b>	0517	2.42	<b>10</b>	0519	0.46	<b>18</b>	0030	0.40	<b>26</b>	0601	0.96
	1107	0.90		1204	2.31		0701	2.57		1238	2.08
FR	1712	2.53	SA	1752	1.12	SU	1250	0.97	MO	1842	1.15
	2340	0.53	○	2344	2.37	○	1829	2.50	●		
<b>3</b>	0607	2.50	<b>11</b>	0635	0.55	<b>19</b>	0102	0.42	<b>27</b>	0050	2.05
	1150	0.93		1317	2.33		0734	2.53		0714	1.00
SA	1745	2.58	SU	1915	1.01	MO	1320	1.01	TU	1339	2.14
							1856	2.49		1951	0.97
<b>4</b>	0021	0.41	<b>12</b>	0117	2.33	<b>20</b>	0134	0.45	<b>28</b>	0215	2.16
	0655	2.54		0749	0.62		0806	2.47		0817	1.00
SU	1232	0.96	MO	1427	2.40	TU	1348	1.04	WE	1431	2.23
○	1818	2.63		2030	0.82		1924	2.47		2050	0.76
<b>5</b>	0102	0.32	<b>13</b>	0247	2.38	<b>21</b>	0206	0.50	<b>29</b>	0323	2.32
	0740	2.55		0859	0.66		0838	2.39		0915	0.99
MO	1314	0.99	TU	1526	2.47	WE	1415	1.09	TH	1518	2.32
	1855	2.67		2134	0.63		1954	2.42		2142	0.56
<b>6</b>	0144	0.27	<b>14</b>	0401	2.48	<b>22</b>	0240	0.57	<b>30</b>	0420	2.48
	0823	2.52		0959	0.71		0911	2.30		1007	0.96
TU	1356	1.03	WE	1615	2.52	TH	1447	1.14	FR	1601	2.41
	1935	2.69		2229	0.49		2027	2.35		2229	0.40
<b>7</b>	0228	0.25	<b>15</b>	0500	2.56	<b>23</b>	0317	0.66			
	0908	2.46		1051	0.77		0949	2.21			
WE	1441	1.06	TH	1657	2.53		FR	1526	1.20		
	2020	2.67		2315	0.41		2105	2.25			
<b>8</b>	0316	0.28	<b>16</b>	0546	2.59	<b>24</b>	0400	0.77			
	0957	2.40		1137	0.85		1034	2.12			
TH	1532	1.10	FR	1731	2.52		SA	1615	1.24		
	2114	2.60		2354	0.38		2155	2.14			

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# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0512	2.60	<b>9</b>	0500	0.70	<b>17</b>	0628	2.63	<b>25</b>	0513	1.12
	1054	0.95		1127	2.25		1219	0.98		1126	2.11
SA	1642	2.49	SU	1745	0.91	MO	1750	2.42	TU	1806	0.88
	2315	0.28		2356	2.22				●		
<b>2</b>	0600	2.67	<b>10</b>	0619	0.82	<b>18</b>	0019	0.41	<b>26</b>	0046	2.09
	1139	0.94		1236	2.24		0659	2.58		0634	1.19
SU	1721	2.55	MO	1901	0.77	TU	1247	0.98	WE	1234	2.14
	2358	0.21	○			○	1820	2.42		1916	0.69
<b>3</b>	0645	2.68	<b>11</b>	0130	2.27	<b>19</b>	0051	0.45	<b>27</b>	0208	2.28
	1222	0.94		0734	0.88		0729	2.51		0747	1.18
MO	1800	2.59	TU	1345	2.28	WE	1315	1.00	TH	1336	2.21
○				2009	0.61		1852	2.39		2016	0.49
<b>4</b>	0041	0.19	<b>12</b>	0249	2.41	<b>20</b>	0124	0.51	<b>28</b>	0313	2.48
	0728	2.64		0841	0.90		0758	2.44		0850	1.13
TU	1304	0.94	WE	1444	2.32		1345	1.02		1432	2.30
	1841	2.62		2106	0.46		1926	2.33		2110	0.31
<b>5</b>	0124	0.21	<b>13</b>	0350	2.55	<b>21</b>	0157	0.60	<b>29</b>	0408	2.64
	0807	2.56		0939	0.91		0829	2.35		0945	1.06
WE	1346	0.95	TH	1532	2.36		1418	1.04		1524	2.39
	1925	2.60		2154	0.37		2001	2.25		2200	0.18
<b>6</b>	0208	0.28	<b>14</b>	0439	2.63	<b>22</b>	0232	0.70	<b>30</b>	0459	2.74
	0847	2.47		1028	0.92		0901	2.27		1035	1.00
TH	1432	0.96	FR	1613	2.37		1458	1.05		1613	2.47
	2014	2.53		2236	0.34		2043	2.16		2248	0.12
<b>7</b>	0257	0.39	<b>15</b>	0520	2.66	<b>23</b>	0313	0.84	<b>31</b>	0545	2.78
	0931	2.38		1111	0.95		0939	2.19		1124	0.95
FR	1525	0.97	SA	1647	2.39		1546	1.05		1700	2.53
	2111	2.42		2314	0.35		2140	2.06		2335	0.11
<b>8</b>	0352	0.54	<b>16</b>	0556	2.66	<b>24</b>	0404	0.98			
	1023	2.31		1147	0.96		1025	2.14			
SA	1629	0.96	SU	1719	2.41		1650	1.00			
	2224	2.29		2346	0.37		2306	2.02			

Port Welsh

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0630	2.76		<b>9</b>	0128	2.29		<b>17</b>	0014	0.49	<b>25</b>	0147	2.38
	1211	0.91			0710	1.15			0656	2.53		0711	1.31
TU	1746	2.56		WE	1254	2.19		TH	1248	1.00		1244	2.27
●					1938	0.48			1825	2.28		1942	0.28
<b>2</b>	0021	0.16		<b>10</b>	0234	2.44		<b>18</b>	0045	0.56	<b>26</b>	0252	2.56
	0712	2.70			0815	1.14			0723	2.48		0818	1.25
WE	1256	0.87		TH	1352	2.20		FR	1321	0.98	SA	1349	2.33
	1834	2.54			2030	0.39			1902	2.23		2040	0.15
<b>3</b>	0106	0.26		<b>11</b>	0327	2.57		<b>19</b>	0119	0.65	<b>27</b>	0349	2.70
	0750	2.61			0911	1.11			0750	2.42		0918	1.15
TH	1343	0.85		FR	1441	2.23		SA	1357	0.95	SU	1449	2.41
	1924	2.47			2115	0.35			1943	2.17		2134	0.08
<b>4</b>	0152	0.40		<b>12</b>	0411	2.65		<b>20</b>	0155	0.77	<b>28</b>	0441	2.78
	0828	2.51			0958	1.08			0819	2.37		1015	1.04
FR	1431	0.83		SA	1524	2.26		SU	1437	0.90	MO	1547	2.47
	2018	2.37			2156	0.34			2031	2.10		2227	0.06
<b>5</b>	0241	0.58		<b>13</b>	0449	2.68		<b>21</b>	0236	0.91	<b>29</b>	0529	2.81
	0907	2.42			1039	1.06			0851	2.33		1109	0.94
SA	1526	0.81		SU	1602	2.29		MO	1526	0.83	TU	1645	2.51
	2121	2.25			2232	0.36			2136	2.06		2317	0.11
<b>6</b>	0337	0.78		<b>14</b>	0524	2.67		<b>22</b>	0329	1.07	<b>30</b>	0614	2.79
	0953	2.34			1115	1.04			0930	2.29		1201	0.85
SU	1628	0.76		MO	1639	2.32		TU	1624	0.73	WE	1742	2.50
	2239	2.17			2307	0.39			2300	2.08			
<b>7</b>	0444	0.96		<b>15</b>	0557	2.64		<b>23</b>	0435	1.22			
	1047	2.26			1147	1.02			1025	2.25			
MO	1733	0.69		TU	1714	2.33		WE	1730	0.60			
					2340	0.43							
<b>8</b>	0006	2.18		<b>16</b>	0627	2.59		<b>24</b>	0030	2.19			
	0559	1.09			1218	1.01			0553	1.31			
TU	1150	2.21		WE	1749	2.32		TH	1132	2.24			
●	1839	0.59		●				●	1839	0.45			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# PORT WELSHPOOL PIER

LAT 38° 42' S    LONG 146° 28' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0007	0.21		<b>9</b>	0202	2.40		<b>17</b>	0017	0.64		<b>25</b>	0225	2.52
	0656	2.74			0736	1.33			0653	2.50			0744	1.29
TH	1253	0.76		FR	1254	2.14		SA	1305	0.90		SU	1313	2.39
○	1838	2.46			1948	0.43			1850	2.17			2013	0.11
<b>2</b>	0055	0.37		<b>10</b>	0253	2.49		<b>18</b>	0052	0.73		<b>26</b>	0326	2.63
	0733	2.66			0831	1.29			0719	2.49			0851	1.18
FR	1343	0.69		SA	1348	2.15		SU	1342	0.82		MO	1423	2.42
	1933	2.38			2034	0.40			1938	2.15			2113	0.09
<b>3</b>	0143	0.55		<b>11</b>	0338	2.56		<b>19</b>	0130	0.84		<b>27</b>	0421	2.71
	0809	2.58			0921	1.23			0745	2.47			0956	1.04
SA	1433	0.64		SU	1437	2.18		MO	1422	0.71		TU	1532	2.44
	2030	2.29			2116	0.40			2030	2.14			2210	0.11
<b>4</b>	0231	0.76		<b>12</b>	0418	2.59		<b>20</b>	0215	0.97		<b>28</b>	0511	2.76
	0845	2.49			1004	1.18			0815	2.46			1057	0.88
SU	1524	0.60		MO	1522	2.21		TU	1508	0.60		WE	1642	2.46
	2132	2.20			2157	0.41			2132	2.15			2306	0.20
<b>5</b>	0324	0.96		<b>13</b>	0455	2.60		<b>21</b>	0306	1.11		<b>29</b>	0557	2.77
	0924	2.40			1044	1.13			0854	2.44			1154	0.72
MO	1615	0.57		TU	1605	2.22		WE	1600	0.49		TH	1747	2.46
	2242	2.17			2234	0.45			2244	2.19			2359	0.32
<b>6</b>	0422	1.14		<b>14</b>	0530	2.58		<b>22</b>	0406	1.24		<b>30</b>	0639	2.75
	1007	2.30			1121	1.08			0944	2.42			1247	0.58
TU	1710	0.53		WE	1646	2.23		TH	1658	0.38		FR	1846	2.43
	2355	2.20			2310	0.50					○			
<b>7</b>	0527	1.27		<b>15</b>	0600	2.55		<b>23</b>	0000	2.27		<b>31</b>	0049	0.49
	1059	2.22			1156	1.03			0515	1.33			0716	2.70
WE	1805	0.50		TH	1727	2.21		FR	1045	2.39		SA	1337	0.49
					2344	0.56		●	1803	0.28			1942	2.38
<b>8</b>	0102	2.29		<b>16</b>	0628	2.53		<b>24</b>	0116	2.39				
	0633	1.33			1230	0.97			0630	1.35				
TH	1156	2.16		FR	1808	2.19		SA	1159	2.37				
	1859	0.46		○					1909	0.18				

Port Welshpool

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# Portland

**Time Differences for Supplementary Locations  
– based on Portland**

Location	Time diff		Rise of tide			
	(earlier) later	HM	MHHW	MLHW	MHLW	MLLW
			metres	metres	metres	metres
Portland	0 00	1.1	0.8	0.5	0.2	
Port Fairy	0 01	1.1	0.9	0.5	0.3	
Warrnambool	0 09	0.9	0.5	0.5	0.1	
Port Campbell	0 00	1.2	0.8	0.6	0.2	

## **EXTRA TIDES FOR PORTLAND 2022**

PORTLAND							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
Nov	5	0030	0.68	Nov	20	0019	0.74
		0505	0.60			0500	0.66

# Portland Datums

Latitude 38°21' S. Longitude 141°37' E (WGS 84)

AHD metres	Predominantly diurnal tides	Chart Datum metres
1.01	Highest recorded tide 28/06/2014 (1982-2020)	1.60
0.79	Highest Astronomical Tide (HAT)	1.38
0.54	Mean Higher High Water (MHHW)	1.14
0.28	Mean Lower High Water (MLHW)	0.88
<b>0.000</b>	<b>Australian Height Datum</b>	<b>0.597</b>
-0.08	Mean Higher Low Water (MHLW)	0.51
-0.34	Mean Lower Low Water (MLLW)	0.26
<b>-0.597</b>	<b>Chart &amp; Prediction Datum</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-0.90	Lowest recorded tide 26/11/2003 (1982-2020)	-0.30

Portland

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0011	1.10		<b>9</b>	0327	0.97	<b>17</b>	0055	1.14	<b>25</b>	0331	0.91		
SA	1530	0.28		SU	1008	0.43	MO	0852	0.50	TU	1019	0.38		
				1544	0.72	1140	0.54	1726	0.29	●	1632	0.75		
				2055	0.47					●	2128	0.58		
<b>2</b>	0039	1.19		<b>10</b>	0343	0.92	<b>18</b>	0119	1.18	<b>26</b>	0329	0.84		
SU	1614	0.21		1036	0.38	0858	0.50	TU	1029	0.34	WE	1758	0.76	
				MO	1700	0.71	1215	0.57	2142	0.71		●	2123	0.59
				●			○	1803	0.26					
<b>3</b>	0110	1.24		<b>11</b>	0346	0.86	<b>19</b>	0144	1.19	<b>27</b>	0242	0.81		
MO	1659	0.16		1108	0.36	0904	0.50	WE	1041	0.31	TH			
●				TU	1912	0.72	1245	0.61						
				2137	0.71	1837	0.24							
<b>4</b>	0139	1.25		<b>12</b>	0323	0.82	<b>20</b>	0206	1.18	<b>28</b>	0037	0.87		
TU	1743	0.14		1146	0.36	0909	0.50	TH	1100	0.28	FR			
				WE		1313	0.65							
						1908	0.24							
<b>5</b>	0206	1.21		<b>13</b>	0033	0.83	<b>21</b>	0229	1.16	<b>29</b>	0025	0.99		
WE	1015	0.60		1243	0.37	0918	0.49	FR	1131	0.27	SA			
WE	1143	0.61		2353	0.93	1344	0.68							
WE	1826	0.14				1937	0.26							
<b>6</b>	0230	1.16		<b>14</b>	1414	0.37	<b>22</b>	0249	1.11	<b>30</b>	0045	1.09		
TH	0934	0.60		FR		0932	0.47	SA	1241	0.29	SU			
TH	1246	0.66				1417	0.71							
TH	1908	0.19				2006	0.30							
<b>7</b>	0249	1.09		<b>15</b>	0007	1.01	<b>23</b>	0307	1.06	<b>31</b>	0105	1.15		
FR	0928	0.56		1539	0.36	0949	0.44	SU	1615	0.27	MO			
FR	1345	0.70		SA		1455	0.73							
FR	1946	0.26				2034	0.37							
<b>8</b>	0308	1.03		<b>16</b>	0030	1.09	<b>24</b>	0322	0.99					
SA	0945	0.49		SU	0942	0.51	MO	1005	0.41					
SA	1442	0.72		1017	0.51	1538	0.74							
SA	2022	0.36		1641	0.33	2101	0.46							

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE -1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY - 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0124	1.18		<b>9</b>	0308	0.87	<b>17</b>	0133	1.14	<b>25</b>	0158	0.84	
	1733	0.23		1007	0.25		0833	0.46		0945	0.19		
TU			WE	1730	0.80	TH	1300	0.67	FR	1845	0.84		
●				2149	0.69	○	1852	0.27		2045	0.83		
<b>2</b>	0143	1.17		<b>10</b>	0254	0.84	<b>18</b>	0151	1.13	<b>26</b>	0104	0.90	
	0929	0.52		1028	0.28		0832	0.44		1004	0.21		
WE	1200	0.55	TH	1922	0.79	FR	1326	0.73	SA				
	1824	0.20		2134	0.78		1923	0.26					
<b>3</b>	0159	1.13		<b>11</b>	0153	0.84	<b>19</b>	0208	1.09	<b>27</b>	0040	0.99	
	0904	0.52		1048	0.32		0839	0.41		1020	0.26		
TH	1249	0.65	FR			SA	1354	0.79	SU				
	1905	0.21					1953	0.29					
<b>4</b>	0213	1.08		<b>12</b>	0032	0.89	<b>20</b>	0222	1.04	<b>28</b>	0053	1.05	
	0846	0.48		1105	0.36		0849	0.37		1018	0.33		
FR	1332	0.74	SA			SU	1423	0.85	MO				
	1941	0.25					2021	0.35					
<b>5</b>	0225	1.04		<b>13</b>	0028	0.97	<b>21</b>	0232	0.98				
	0853	0.41		1113	0.42		0900	0.33					
SA	1415	0.80	SU			MO	1455	0.89					
	2013	0.31					2048	0.42					
<b>6</b>	0239	1.00		<b>14</b>	0042	1.04	<b>22</b>	0240	0.92				
	0909	0.33		0932	0.45		0907	0.28					
SU	1459	0.83	MO	1159	0.47	TU	1530	0.91					
	2042	0.40		1645	0.40		2113	0.52					
<b>7</b>	0254	0.96		<b>15</b>	0059	1.09	<b>23</b>	0244	0.87				
	0928	0.28		0844	0.47		0915	0.24					
MO	1543	0.84	TU	1214	0.53	WE	1611	0.91					
	2108	0.49		1740	0.34		2131	0.63					
<b>8</b>	0306	0.92		<b>16</b>	0115	1.12	<b>24</b>	0233	0.84				
	0947	0.25		0837	0.46		0929	0.20					
TU	1630	0.83	WE	1236	0.60	TH	1702	0.88					
	2131	0.59		1818	0.29	○	2138	0.74					

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## MARCH – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0106	1.09		<b>9</b>	0228	0.88	<b>17</b>	0053	1.06	<b>25</b>	0135	0.84	
TU	0946	0.42		0858	0.20		0749	0.45		0845	0.15		
	1219	0.45	WE	1558	0.97	TH	1240	0.70	FR	1630	0.98		
	1718	0.36		2131	0.61		1823	0.36	●	2123	0.80		
<b>2</b>	0115	1.08		<b>10</b>	0230	0.85	<b>18</b>	0106	1.06	<b>26</b>	0113	0.88	
WE	0838	0.48		0915	0.22		0741	0.43	SA	0906	0.18		
	1222	0.57	TH	1634	0.92	FR	1259	0.80		1734	0.89		
	1808	0.30	●	2146	0.69	○	1856	0.34		2046	0.85		
<b>3</b>	0121	1.06		<b>11</b>	0220	0.83	<b>19</b>	0120	1.04	<b>27</b>	0047	0.92	
TH	0815	0.48		0933	0.26		0742	0.40	SU	0924	0.25		
	1245	0.69	FR	1720	0.86	SA	1322	0.89					
●	1846	0.28		2146	0.77		1928	0.35					
<b>4</b>	0130	1.03		<b>12</b>	0140	0.83	<b>20</b>	0132	0.99	<b>28</b>	0027	0.96	
FR	0756	0.43		0946	0.31		0749	0.35	MO	0927	0.35		
	1313	0.80	SA			SU	1347	0.98					
	1920	0.29					1959	0.38					
<b>5</b>	0139	1.00		<b>13</b>	0043	0.87	<b>21</b>	0141	0.93	<b>29</b>	0032	0.99	
SA	0759	0.36		0950	0.37		0757	0.30	TU	0859	0.45		
	1343	0.90	SU			MO	1414	1.04		1349	0.54		
	1950	0.33					2028	0.45		1644	0.52		
<b>6</b>	0150	0.97		<b>14</b>	0024	0.94	<b>22</b>	0145	0.88	<b>30</b>	0035	0.99	
SU	0811	0.29		0925	0.42		0801	0.24	WE	0745	0.50		
	1415	0.96	MO			TU	1443	1.08		1227	0.64		
	2019	0.39					2054	0.53		1742	0.45		
<b>7</b>	0204	0.94		<b>15</b>	0030	1.00	<b>23</b>	0150	0.85	<b>31</b>	0032	0.97	
MO	0826	0.23		0834	0.46		0809	0.19	TH	0715	0.49		
	1449	0.99	TU	1315	0.55	WE	1514	1.09		1225	0.77		
	2046	0.46		1700	0.49		2115	0.62		1818	0.41		
<b>8</b>	0217	0.91		<b>16</b>	0041	1.04	<b>24</b>	0149	0.83				
TU	0842	0.20		0801	0.46		0825	0.15					
	1523	0.99	WE	1235	0.61	TH	1548	1.05					
	2111	0.53		1746	0.42		2128	0.71					

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE -1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## APRIL - 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0038	0.95		<b>9</b>	0145	0.82		<b>17</b>	0037	0.92		<b>25</b>	0015	0.90
	0656	0.44			0851	0.30			0645	0.39			0856	0.39
FR	1245	0.89		SA	1633	0.96		SU	1308	1.09		MO	2342	0.90
●	1850	0.40		○	2157	0.79		○	1931	0.48				
<b>2</b>	0046	0.93		<b>10</b>	0109	0.83		<b>18</b>	0045	0.86		<b>26</b>	0839	0.51
	0700	0.36			0904	0.36			0651	0.33			2332	0.89
SA	1309	1.00		SU	1733	0.88		MO	1333	1.18		TU		
	1920	0.42			2133	0.85			2004	0.53				
<b>3</b>	0057	0.92		<b>11</b>	0002	0.86		<b>19</b>	0047	0.82		<b>27</b>	0649	0.58
	0712	0.30			0902	0.42			0656	0.26			1242	0.71
SU	1335	1.08		MO	2342	0.91		TU	1400	1.23		WE	1659	0.64
	1949	0.45							2033	0.60			2318	0.88
<b>4</b>	0111	0.90		<b>12</b>	0832	0.48		<b>20</b>	0051	0.80		<b>28</b>	0601	0.55
	0726	0.25			2347	0.96			0704	0.20			1159	0.83
MO	1402	1.13		TU				WE	1429	1.24		TH	1745	0.59
	2017	0.49							2100	0.68			2328	0.87
<b>5</b>	0127	0.88		<b>13</b>	0725	0.51		<b>21</b>	0054	0.81		<b>29</b>	0545	0.48
	0740	0.22			1302	0.66			0722	0.16			1210	0.96
TU	1431	1.15		WE	1657	0.59		TH	1500	1.21		FR	1819	0.56
	2045	0.55			2358	0.98			2122	0.75			2341	0.86
<b>6</b>	0140	0.86		<b>14</b>	0658	0.51		<b>22</b>	0048	0.84		<b>30</b>	0553	0.41
	0756	0.21			1227	0.75			0745	0.16			1231	1.08
WE	1500	1.13		TH	1745	0.53		FR	1534	1.14		SA	1850	0.55
	2110	0.60							2135	0.81			2356	0.86
<b>7</b>	0150	0.85		<b>15</b>	0010	0.99		<b>23</b>	0037	0.87				
	0814	0.22			0641	0.48			0813	0.19				
TH	1530	1.09		FR	1228	0.86		SA	1614	1.04				
	2131	0.66			1822	0.48		○	2123	0.86				
<b>8</b>	0155	0.83		<b>16</b>	0024	0.96		<b>24</b>	0033	0.89				
	0833	0.26			0639	0.44			0839	0.27				
FR	1600	1.04		SU	1245	0.98			1708	0.93				
	2149	0.73			1858	0.47			2110	0.87				

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# PORTLAND

LAT 38° 21' S      LONG 141° 37' E      TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0608	0.35		<b>9</b>	0032	0.81	<b>17</b>	0547	0.32	<b>25</b>	0746	0.68
1256	1.17		MO	0839	0.44	TU	1322	1.32	WE	1912	0.84	
SU 1920	0.56		●	1709	0.98	2031	0.67					
			○			2343	0.74					
<b>2</b>	0013	0.85		<b>10</b>	0834	0.52	<b>18</b>	0600	0.25	<b>26</b>	0406	0.63
0624	0.30		TU	1915	0.92	WE	1353	1.35	TH	1150	0.85	
MO 1321	1.23					2104	0.74	TH	1704	0.77		
1949	0.58					2346	0.77	2047	0.81			
<b>3</b>	0032	0.85		<b>11</b>	0738	0.59	<b>19</b>	0622	0.20	<b>27</b>	0410	0.55
0640	0.27		WE	2204	0.91	TH	1425	1.32	FR	1130	0.98	
TU 1348	1.26					2124	0.80	1800	0.73			
2017	0.61					2342	0.81	2148	0.80			
<b>4</b>	0050	0.84		<b>12</b>	0559	0.59	<b>20</b>	0650	0.19	<b>28</b>	0431	0.48
0657	0.27		TU	1230	0.78	WE	1457	1.26	SA	1150	1.09	
WE 1415	1.26			1643	0.71	FR	2140	0.84	1836	0.70		
2045	0.64			2245	0.91		2334	0.85	2229	0.80		
<b>5</b>	0104	0.83		<b>13</b>	0529	0.56	<b>21</b>	0723	0.23	<b>29</b>	0456	0.42
0717	0.27		FR	1200	0.89	WE	1531	1.17	SU	1216	1.19	
TH 1443	1.23			1743	0.66	SA	2200	0.86	1907	0.68		
2112	0.68			2311	0.88		2359	0.87	2301	0.80		
<b>6</b>	0117	0.83		<b>14</b>	0527	0.52	<b>22</b>	0758	0.30	<b>30</b>	0518	0.38
0739	0.30		FR	1206	1.03	WE	1608	1.08	1244	1.26		
FR 1512	1.18			1830	0.62	SU	2230	0.85	1935	0.67		
2139	0.73			2328	0.83				●	2331	0.80	
<b>7</b>	0127	0.82		<b>15</b>	0532	0.46	<b>23</b>	0024	0.86	<b>31</b>	0541	0.35
0801	0.33		SA	1228	1.15	WE	0830	0.41	1311	1.30		
SA 1542	1.12			1912	0.61	MO	1649	0.98	TU	2002	0.67	
2210	0.77			2336	0.78				2358	0.80		
<b>8</b>	0121	0.81		<b>16</b>	0539	0.39	<b>24</b>	0855	0.55			
0823	0.38		MO	1253	1.26	TU	1743	0.90				
SU 1617	1.05			1953	0.63							
2300	0.81		○	2339	0.75							

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JUNE - 2022

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0603	0.34		<b>9</b>	0348	0.69	<b>17</b>	0602	0.24	<b>25</b>	0206	0.51
	1339	1.32			1831	0.90		1430	1.32		1110	1.03
WE	2029	0.69	TH				FR		SA			
<b>2</b>	0020	0.80	<b>10</b>	0332	0.65	<b>18</b>	0641	0.26	<b>26</b>	0307	0.48	
	0628	0.33		1154	0.87		1459	1.25		1140	1.13	
TH	1407	1.31	FR	1652	0.81	SA	2208	0.83	SU			
	2055	0.71		1949	0.83							
<b>3</b>	0040	0.81	<b>11</b>	0342	0.59	<b>19</b>	0007	0.83	<b>27</b>	0356	0.45	
	0654	0.34		1130	1.00		0722	0.32		1210	1.21	
FR	1436	1.28	SA	1846	0.75	SU	1525	1.17	MO	2009	0.71	
	2122	0.73		2051	0.76		2202	0.79		2155	0.72	
<b>4</b>	0100	0.81	<b>12</b>	0356	0.53	<b>20</b>	0118	0.83	<b>28</b>	0437	0.42	
	0721	0.37		1148	1.14		0802	0.41		1240	1.26	
SA	1506	1.23	SU	1945	0.70	MO	1550	1.09	TU	2025	0.70	
	2152	0.75		2130	0.71		2226	0.73		2259	0.73	
<b>5</b>	0120	0.81	<b>13</b>	0413	0.46	<b>21</b>	0234	0.82	<b>29</b>	0514	0.40	
	0748	0.40		1216	1.25		0842	0.53		1309	1.30	
SU	1536	1.18	MO	2042	0.67	TU	1614	1.02	WE	2044	0.69	
	2230	0.76		2149	0.68	○	2302	0.67	●	2341	0.74	
<b>6</b>	0139	0.80	<b>14</b>	0432	0.38	<b>22</b>	0417	0.79	<b>30</b>	0548	0.39	
	0815	0.45		1249	1.34		0918	0.66		1338	1.31	
MO	1609	1.12	TU	○		WE	1631	0.96	TH	2058	0.70	
	2326	0.76					2353	0.61				
<b>7</b>	0148	0.77	<b>15</b>	0456	0.31	<b>23</b>	0711	0.81				
	0837	0.52		1323	1.38		0950	0.79				
TU	1646	1.05	WE	○		TH	1630	0.91				
<b>8</b>	0851	0.61	<b>16</b>	0526	0.26	<b>24</b>	0058	0.56				
	1730	0.98	TH	1358	1.37		1118	0.92				
WE	○					FR						

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**JULY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0013	0.76		<b>9</b>	0010	0.58		<b>17</b>	0026	0.78		<b>25</b>	0115	0.48
	0621	0.38			1145	0.91			0702	0.32			1152	1.09
FR	1406	1.30	SA				SU	1444	1.19		MO			
	2111	0.70						2120	0.71					
<b>2</b>	0042	0.78		<b>10</b>	0045	0.54		<b>18</b>	0130	0.83		<b>26</b>	0254	0.49
	0652	0.38			1125	1.05			0744	0.39			1219	1.16
SA	1432	1.27	SU				MO	1459	1.13		TU			
	2127	0.70						2129	0.63					
<b>3</b>	0113	0.80		<b>11</b>	0138	0.49		<b>19</b>	0229	0.87		<b>27</b>	0418	0.47
	0723	0.40			1155	1.17			0822	0.48			1245	1.21
SU	1459	1.24	MO				TU	1515	1.07		WE	2046	0.64	
	2147	0.70						2148	0.55			2317	0.66	
<b>4</b>	0146	0.81		<b>12</b>	0242	0.44		<b>20</b>	0330	0.88		<b>28</b>	0515	0.43
	0753	0.43			1229	1.27			0858	0.58			1311	1.24
MO	1523	1.19	TU				WE	1529	1.03		TH	2046	0.64	
	2212	0.68						2214	0.49					
<b>5</b>	0227	0.80		<b>13</b>	0341	0.38		<b>21</b>	0438	0.88		<b>29</b>	0001	0.70
	0822	0.49			1302	1.33			0930	0.70			0558	0.40
TU	1546	1.14	WE				TH	1537	0.98		FR	1335	1.26	
	2239	0.66					●	2243	0.45		●	2050	0.64	
<b>6</b>	0315	0.80		<b>14</b>	0435	0.33		<b>22</b>	0610	0.88		<b>30</b>	0034	0.74
	0852	0.56			1334	1.34			0959	0.81			0633	0.38
WE	1607	1.07	TH				FR	1527	0.95		SA	1357	1.25	
	2308	0.64	○					2317	0.44			2051	0.63	
<b>7</b>	0422	0.80		<b>15</b>	0528	0.30		<b>23</b>	0848	0.92		<b>31</b>	0104	0.79
	0923	0.66			1402	1.32			1015	0.91			0705	0.37
TH	1621	0.99	FR				SA	1356	0.93		SU	1418	1.23	
	2338	0.61										2100	0.61	
<b>8</b>	0615	0.82		<b>16</b>	0616	0.29		<b>24</b>	0002	0.45				
	0952	0.78			1426	1.26			1135	1.01				
FR	1615	0.92	SA	2153	0.74		SU							

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## AUGUST – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0135	0.82		<b>9</b>	1229	1.15		<b>17</b>	0239	0.96		<b>25</b>	0439	0.49
	0735	0.39			2350	0.40			0834	0.51			1245	1.13
MO	1437	1.19	TU				WE	1432	1.01		TH	2018	0.57	
	2113	0.58						2100	0.37			2357	0.64	
<b>2</b>	0208	0.85		<b>10</b>	1254	1.23		<b>18</b>	0324	0.97		<b>26</b>	0531	0.44
	0804	0.43							0901	0.60			1301	1.16
TU	1454	1.14	WE				TH	1444	0.98		FR	2012	0.56	
	2129	0.55						2120	0.33					
<b>3</b>	0245	0.87		<b>11</b>	0340	0.40		<b>19</b>	0412	0.96		<b>27</b>	0019	0.71
	0833	0.49			1315	1.26			0925	0.69			0609	0.39
WE	1508	1.08	TH				FR	1447	0.95		SA	1317	1.17	
	2144	0.52					●	2143	0.32		●	2005	0.55	
<b>4</b>	0325	0.89		<b>12</b>	0515	0.36		<b>20</b>	0508	0.93		<b>28</b>	0045	0.78
	0902	0.57			1333	1.25			0945	0.78			0642	0.36
TH	1517	1.01	FR	2123	0.62		SA	1438	0.92		SU	1333	1.16	
	2157	0.48	○	2340	0.64			2207	0.35			2005	0.52	
<b>5</b>	0414	0.90		<b>13</b>	0611	0.32		<b>21</b>	0636	0.89		<b>29</b>	0110	0.84
	0930	0.67			1348	1.20			0949	0.86			0713	0.36
FR	1520	0.95	SA	2055	0.64		SU	1346	0.91		MO	1349	1.12	
○	2208	0.45						2230	0.40			2013	0.49	
<b>6</b>	0518	0.91		<b>14</b>	0030	0.75		<b>22</b>	1224	0.96		<b>30</b>	0137	0.90
	0955	0.79			0654	0.32			2254	0.45			0742	0.39
SA	1451	0.90	SU	1400	1.15		MO				TU	1402	1.08	
	2220	0.42			2029	0.60						2024	0.45	
<b>7</b>	0715	0.92		<b>15</b>	0114	0.84		<b>23</b>	1214	1.02		<b>31</b>	0205	0.95
	0951	0.91			0730	0.36			2314	0.52			0810	0.43
SU	1256	0.93	MO	1409	1.09		TU				WE	1413	1.02	
	2238	0.39			2030	0.52						2033	0.41	
<b>8</b>	1206	1.05		<b>16</b>	0156	0.92		<b>24</b>	1228	1.08				
	2303	0.39			0804	0.42			2106	0.56				
MO			TU	1419	1.05		WE	2336	0.58					
				2044	0.44									

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0236	0.99		<b>9</b>	0029	0.52	<b>17</b>	0338	1.03	<b>25</b>	0021	0.78
	0837	0.50			0501	0.43		0918	0.67		0612	0.41
TH	1420	0.97		FR	1300	1.13	SA	1403	0.88	SU	1245	1.04
	2041	0.36			2018	0.54		2049	0.25		1907	0.46
<b>2</b>	0309	1.01		<b>10</b>	0008	0.63	<b>18</b>	0415	0.98	<b>26</b>	0040	0.87
	0903	0.59			0553	0.37		0933	0.74		0644	0.38
FR	1424	0.92		SA	1305	1.09	SU	1355	0.86	MO	1258	1.01
	2049	0.32		○	1952	0.54	○	2109	0.30	●	1912	0.42
<b>3</b>	0346	1.01		<b>11</b>	0027	0.76	<b>19</b>	0502	0.90	<b>27</b>	0102	0.96
	0925	0.69			0632	0.35		0936	0.80		0714	0.39
SA	1416	0.88		SU	1313	1.05	MO	1315	0.86	TU	1310	0.97
	2102	0.29			1930	0.50		2124	0.37		1920	0.37
<b>4</b>	0432	0.98		<b>12</b>	0053	0.87	<b>20</b>	1220	0.89	<b>28</b>	0127	1.04
	0935	0.79			0706	0.36		2124	0.43		0745	0.42
SU	1341	0.88		MO	1318	1.00	TU			WE	1318	0.92
○	2119	0.28			1931	0.42					1927	0.32
<b>5</b>	0553	0.92		<b>13</b>	0122	0.97	<b>21</b>	1203	0.95	<b>29</b>	0152	1.09
	0913	0.89			0737	0.40		2047	0.49		0813	0.48
MO	1245	0.93		TU	1326	0.97	WE			TH	1324	0.87
	2136	0.29			1941	0.34					1931	0.27
<b>6</b>	1215	1.02		<b>14</b>	0154	1.04	<b>22</b>	1211	1.00	<b>30</b>	0219	1.12
	2148	0.33			0806	0.46		1948	0.51		0840	0.55
TU				WE	1337	0.94	TH			FR	1328	0.83
					1954	0.27					1940	0.22
<b>7</b>	1230	1.10		<b>15</b>	0228	1.07	<b>23</b>	0040	0.62			
	2148	0.40			0833	0.53		0457	0.52			
WE				TH	1350	0.92	FR	1221	1.03			
					2009	0.23		1927	0.51			
<b>8</b>	1248	1.13		<b>16</b>	0302	1.07	<b>24</b>	0013	0.69			
	2120	0.48			0858	0.60		0538	0.46			
TH				FR	1400	0.90	SA	1232	1.05			
					2028	0.23		1914	0.49			

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE -1000  
TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER - 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0248	1.12	<b>9</b>	0007	0.79	<b>17</b>	0339	1.02	<b>25</b>	0027	1.00
SA	0904	0.63	SU	0607	0.43	MO	0938	0.71	TU	0646	0.45
	1327	0.82		1217	0.91		1319	0.78		1214	0.84
	1955	0.19		1827	0.43		2024	0.30	●	1815	0.34
<b>2</b>	0322	1.09	<b>10</b>	0026	0.92	<b>18</b>	0412	0.94	<b>26</b>	0049	1.10
SU	0921	0.72	MO	0638	0.41	TU	0948	0.76	WE	0720	0.46
	1310	0.82	○	1224	0.88	○	1242	0.79		1222	0.79
	2015	0.18		1830	0.36		2035	0.36		1822	0.28
<b>3</b>	0400	1.01	<b>11</b>	0049	1.03	<b>19</b>	0503	0.85	<b>27</b>	0114	1.18
MO	0917	0.80	TU	0708	0.43	WE	0934	0.81	TH	0752	0.49
○	1242	0.86		1230	0.85		1134	0.81		1227	0.75
	2033	0.21		1840	0.28		2025	0.43		1828	0.22
<b>4</b>	0457	0.91	<b>12</b>	0115	1.11	<b>20</b>	1115	0.86	<b>28</b>	0139	1.22
TU	0845	0.86	WE	0737	0.46	TH	1939	0.48	FR	0823	0.55
	1215	0.91		1242	0.84				FR	1230	0.73
	2048	0.27		1851	0.22					1837	0.17
<b>5</b>	1157	0.96	<b>13</b>	0142	1.16	<b>21</b>	1122	0.89	<b>29</b>	0207	1.23
WE	2049	0.36	TH	0804	0.51	FR	1842	0.49	SA	0851	0.62
				1257	0.83				SA	1233	0.73
				1905	0.18					1854	0.13
<b>6</b>	1207	0.98	<b>14</b>	0210	1.17	<b>22</b>	0032	0.68	<b>30</b>	0236	1.19
TH	2020	0.45	FR	0831	0.56	SA	0459	0.58	SU	0916	0.69
				1312	0.82		1133	0.90		1225	0.75
				1923	0.18		1817	0.48		1916	0.13
<b>7</b>	0122	0.57	<b>15</b>	0239	1.15	<b>23</b>	0007	0.77	<b>31</b>	0309	1.12
FR	0436	0.54	SA	0857	0.61	SU	0539	0.51	MO	0938	0.75
	1215	0.97		1322	0.81		1146	0.90		1203	0.79
	1915	0.50		1944	0.20		1806	0.44		1942	0.16
<b>8</b>	0015	0.66	<b>16</b>	0309	1.09	<b>24</b>	0010	0.88			
SA	0530	0.47	SU	0919	0.66	MO	0614	0.47			
	1215	0.94		1328	0.79		1201	0.88			
	1845	0.49		2005	0.24		1808	0.39			

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# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER – 2022

	Time	m		Time	m		Time	m		Time	m	
<b>1</b>	0345	1.02		<b>9</b>	0039	1.15	<b>17</b>	0430	0.90	<b>25</b>	0107	1.26
	0944	0.80			0715	0.51		2000	0.46		0838	0.55
TU	1158	0.82		WE	1145	0.73	TH			FR	1129	0.61
(O)	2004	0.23			1752	0.21					1741	0.16
<b>2</b>	0432	0.90		<b>10</b>	0104	1.21	<b>18</b>	0540	0.82	<b>26</b>	0137	1.29
	0911	0.82			0743	0.53		1833	0.52		0924	0.60
WE	1131	0.83		TH	1204	0.73	FR			SA	1133	0.62
	2017	0.33			1809	0.18					1801	0.12
<b>3</b>	1110	0.83		<b>11</b>	0130	1.23	<b>19</b>	0900	0.78	<b>27</b>	0208	1.26
	2000	0.45			0810	0.55		1716	0.51		1018	0.66
TH				FR	1224	0.73	SA			SU	1127	0.66
					1829	0.17					1829	0.11
<b>4</b>	1111	0.81		<b>12</b>	0157	1.22	<b>20</b>	1009	0.76	<b>28</b>	0239	1.20
	1819	0.51			0837	0.58		1656	0.47		1859	0.13
FR				SA	1242	0.73	SU	2351	0.85	MO		
					1851	0.18	*					
<b>5</b>	1058	0.78		<b>13</b>	0225	1.19	<b>21</b>	0551	0.59	<b>29</b>	0311	1.11
	1731	0.48			0904	0.61		1043	0.73		1009	0.73
SA	2351	0.80		SU	1257	0.73	MO	1658	0.42	TU	1122	0.73
*					1915	0.21		2356	0.98		1931	0.20
<b>6</b>	0547	0.55		<b>14</b>	0254	1.13	<b>22</b>	0633	0.55	<b>30</b>	0343	1.01
	1103	0.76			0932	0.64		1104	0.70		1032	0.72
SU	1716	0.42		MO	1309	0.72	TU	1705	0.36	WE	1202	0.72
	2355	0.94			1939	0.26					2001	0.30
<b>7</b>	0620	0.52		<b>15</b>	0323	1.06	<b>23</b>	0015	1.10			
	1115	0.74			1003	0.67		0714	0.52			
MO	1723	0.33		TU	1311	0.71	WE	1116	0.65			
					2000	0.32		1715	0.29			
<b>8</b>	0015	1.06		<b>16</b>	0354	0.98	<b>24</b>	0039	1.20			
	0648	0.51			1050	0.70		0755	0.52			
TU	1129	0.73		WE	1230	0.70	TH	1122	0.62			
(O)	1737	0.26		(O)	2013	0.39					1726	0.22

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 Datum is Lowest Astronomical Tide    \* Extra Tides p112  
 When daylight saving time is in force, add one hour to times

# PORTLAND

LAT 38° 21' S    LONG 141° 37' E    TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0414	0.91		<b>9</b>	0100	1.22		<b>17</b>	0430	0.88		<b>25</b>	0147	1.28
	1119	0.68			0819	0.55			1241	0.55			1751	0.13
TH	1228	0.68		FR	1137	0.63		SA	1827	0.60		SU		
○	2022	0.44			1744	0.20			1923	0.60				
<b>2</b>	0440	0.82		<b>10</b>	0128	1.23		<b>18</b>	0434	0.80		<b>26</b>	0218	1.24
	1927	0.57			0837	0.56			1356	0.51			1829	0.14
FR				SA	1207	0.65		SU				MO		
					1811	0.20								
<b>3</b>	0431	0.75		<b>11</b>	0156	1.22		<b>19</b>	0033	0.77		<b>27</b>	0245	1.17
	1516	0.52			0857	0.57			1442	0.46			1032	0.64
SA				SU	1233	0.66		MO	2340	0.89		TU	1226	0.65
					1839	0.21							1908	0.18
<b>4</b>	0010	0.77		<b>12</b>	0224	1.19		<b>20</b>	1515	0.41		<b>28</b>	0308	1.08
	1527	0.43			0919	0.58			2347	1.02			0956	0.62
SU	2334	0.89		MO	1258	0.67		TU				WE	1328	0.68
					1907	0.24							1945	0.27
<b>5</b>	0702	0.63		<b>13</b>	0251	1.14		<b>21</b>	1544	0.34		<b>29</b>	0327	1.00
	0814	0.63			0945	0.59			WE				1007	0.56
MO	1555	0.35		TU	1323	0.67						TH	1436	0.69
	2344	1.01			1935	0.28							2022	0.38
<b>6</b>	0716	0.60		<b>14</b>	0318	1.08		<b>22</b>	0012	1.14		<b>30</b>	0342	0.93
	0930	0.62			1013	0.59			1613	0.27			1029	0.48
TU	1623	0.29		WE	1351	0.66		TH				FR	1556	0.68
					2000	0.34						○	2054	0.51
<b>7</b>	0007	1.11		<b>15</b>	0345	1.02		<b>23</b>	0042	1.23		<b>31</b>	0351	0.87
	0738	0.57			1047	0.59			1643	0.21			1100	0.42
WE	1022	0.62		TH	1423	0.64		FR				SA	1758	0.68
	1650	0.24			2023	0.41							2117	0.65
<b>8</b>	0033	1.18		<b>16</b>	0409	0.95		<b>24</b>	0115	1.28				
	0800	0.56			1133	0.58			1715	0.15				
TH	1102	0.62		FR	1510	0.61		SA						
	1716	0.21			2035	0.50								

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# Western Port (Stony Point)

*Time Differences for Supplementary Locations  
– based on Western Port (Stony Point)*

Location	Time diff (earlier) later	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
	HM	metres	metres	metres	metres
Fairway Buoy	(1 00)	2.5	1.8	1.2	0.5
Flinders Pier	(0 55)	2.5	1.8	1.2	0.5
No. 11 Buoy	(0 30)	2.7	2.0	1.2	0.5
Newhaven Pier	(0 25)	2.5	2.0	1.2	0.5
Cowes Pier	(0 10)	2.7	2.0	1.2	0.5
<b>Stony Point</b>	<b>0 00</b>	<b>2.8</b>	<b>2.4</b>	<b>1.1</b>	<b>0.6</b>
Hastings Pier	0 12	2.8	2.4	1.1	0.6
Eagle Rock	0 20	2.8	2.4	1.1	0.6
Warneet Pier	0 25	2.8	2.4	1.1	0.6
Bouchier Channel	0 40	2.8	2.4	1.1	0.6
Tooradin Pier	0 45	2.8	2.4	1.1	0.6
Spit Point (French Island)	0 45	2.8	2.4	1.1	0.6

# **Western Port (Stony Point) Datums**

Latitude 38° 22' S Longitude 145° 13' E (WGS 84)

<b>AHD metres</b>	Predominantly semi-diurnal tides	<b>Chart Datum metres</b>
2.00	Highest recorded tide 06/06/1988 (1981-2021)	3.69
1.69	Highest Astronomical Tide (HAT)	3.38
1.20	Mean High Water Springs (MHWS)	2.89
0.76	Mean High Water Neaps (MHWN)	2.45
<b>0.000</b>	<b>Australian Height Datum</b>	<b>1.690</b>
-0.58	Mean Low Water Neaps (MLWN)	1.11
-1.02	Mean Low Water Springs (MLWS)	0.67
<b>-1.690</b>	<b>Chart &amp; Prediction Datum</b>	<b>0.000</b>
	<b>Lowest Astronomical Tide (LAT)</b>	
-1.99	Lowest recorded tide 17/05/1991 (1981-2021)	-0.30

Information supplied by Commonwealth of Australia, Bureau of Meteorology & Australian Hydrographic Office

# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY – 2022

	Time	m		Time	m		Time	m		Time	m				
<b>1</b>	0326	1.29		<b>9</b>	0545	3.02		<b>17</b>	0013	2.63		<b>25</b>	0534	2.88	
	0933	2.50			1132	0.62			0544	1.41			1130	0.62	
SA	1548	0.44		SU	1801	2.69		MO	1126	2.25		TU	1802	2.68	
	2325	2.80			2336	0.65			1743	0.69		●	2337	0.77	
<b>2</b>	0444	1.34		<b>10</b>	0622	2.91		<b>18</b>	0107	2.72		<b>26</b>	0606	2.83	
	1044	2.47			1214	0.59			0645	1.35			1207	0.53	
SU	1700	0.37		MO	1851	2.63		TU	1229	2.29		WE	1851	2.69	
	●				○				1837	0.65					
<b>3</b>	0034	2.94		<b>11</b>	0020	0.82		<b>19</b>	0156	2.81		<b>27</b>	0021	0.89	
	0602	1.31			0656	2.79			0738	1.26			0639	2.76	
MO	1158	2.48		TU	1253	0.58		WE	1327	2.36		TH	1245	0.45	
●	1811	0.29			1941	2.58			1927	0.60			1944	2.70	
<b>4</b>	0140	3.06		<b>12</b>	0104	0.98		<b>20</b>	0241	2.89		<b>28</b>	0108	1.03	
	0714	1.20			0728	2.67			0824	1.15			0717	2.68	
TU	1309	2.54		WE	1332	0.60			1418	2.45			1329	0.40	
	1916	0.24			2030	2.53			2012	0.57			2041	2.69	
<b>5</b>	0239	3.14		<b>13</b>	0149	1.13		<b>21</b>	0321	2.94		<b>29</b>	0159	1.17	
	0815	1.07			0801	2.54			0904	1.05			0802	2.60	
WE	1415	2.62		TH	1413	0.63			1506	2.52			1418	0.39	
	2015	0.22			2123	2.51			2053	0.56			2145	2.69	
<b>6</b>	0333	3.17		<b>14</b>	0239	1.26		<b>22</b>	0359	2.95		<b>30</b>	0259	1.29	
	0911	0.92			0840	2.43			0943	0.95			0900	2.51	
TH	1517	2.69		FR	1458	0.67		SA	1550	2.57		SU	1518	0.41	
	2110	0.26			2218	2.52			2133	0.57			2256	2.72	
<b>7</b>	0422	3.15		<b>15</b>	0336	1.36		<b>23</b>	0432	2.94		<b>31</b>	0412	1.36	
	1000	0.79			0926	2.33			1018	0.84			1011	2.44	
FR	1615	2.72		SA	1548	0.71		SU	1633	2.61		MO	1631	0.43	
	2201	0.35			2316	2.56			2214	0.61					
<b>8</b>	0506	3.10		<b>16</b>	0439	1.41		<b>24</b>	0503	2.92					
	1048	0.69			1022	2.26			1054	0.73					
SA	1709	2.72		SU	1645	0.72			MO	1717	2.65				
	2250	0.49								2255	0.67				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0009	2.78		<b>9</b>	0620	2.78		<b>17</b>	0120	2.64		<b>25</b>	0012	0.91
	0534	1.33			1220	0.45			0700	1.29			0618	2.74
TU	1133	2.43		WE	1910	2.70		TH	1300	2.31		FR	1228	0.31
●	1749	0.43						○	1859	0.75			1930	2.82
<b>2</b>	0118	2.87		<b>10</b>	0037	0.95		<b>18</b>	0210	2.74		<b>26</b>	0055	1.03
	0652	1.21			0648	2.68			0752	1.14			0656	2.67
WE	1256	2.49		TH	1254	0.49		FR	1400	2.44		SA	1309	0.34
	1901	0.40			1949	2.64			1950	0.70			2022	2.75
<b>3</b>	0221	2.97		<b>11</b>	0115	1.07		<b>19</b>	0253	2.82		<b>27</b>	0142	1.16
	0759	1.03			0717	2.57			0836	0.98			0742	2.58
TH	1410	2.59		FR	1330	0.55		SA	1453	2.57		SU	1357	0.40
	2004	0.39			2031	2.58			2036	0.67			2121	2.67
<b>4</b>	0315	3.03		<b>12</b>	0155	1.19		<b>20</b>	0331	2.86		<b>28</b>	0238	1.26
	0855	0.84			0750	2.47			0916	0.81			0839	2.48
FR	1515	2.70		SA	1407	0.62		SU	1541	2.69		MO	1456	0.50
	2100	0.42			2119	2.52			2120	0.66			2229	2.62
<b>5</b>	0402	3.05		<b>13</b>	0241	1.31		<b>21</b>	0406	2.88				
	0945	0.67			0830	2.36			0954	0.65				
SA	1611	2.77		SU	1452	0.71		MO	1627	2.79				
	2151	0.49			2215	2.48			2203	0.68				
<b>6</b>	0444	3.02		<b>14</b>	0337	1.40		<b>22</b>	0439	2.87				
	1028	0.55			0923	2.26			1032	0.51				
SU	1701	2.80		MO	1547	0.78		TU	1711	2.86				
	2237	0.59			2318	2.49			2246	0.72				
<b>7</b>	0519	2.96		<b>15</b>	0445	1.45		<b>23</b>	0511	2.85				
	1108	0.48			1030	2.20			1110	0.40				
MO	1747	2.79		TU	1653	0.82		WE	1756	2.89				
	2319	0.71							2329	0.80				
<b>8</b>	0551	2.87		<b>16</b>	0023	2.54		<b>24</b>	0544	2.81				
	1145	0.45			0556	1.41			1148	0.33				
TU	1830	2.76		WE	1147	2.22		TH	1842	2.88				
	2359	0.83			1800	0.80		○						

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## MARCH – 2022

	Time	m		Time	m		Time	m		Time	m		
<b>1</b>	0348	1.32		<b>9</b>	0515	2.79		<b>17</b>	0502	1.38	<b>25</b>	0523	2.77
	0955	2.39			1111	0.39			1113	2.21		1128	0.25
TU	1611	0.60		WE	1800	2.89		TH	1715	0.98		1830	3.02
	2343	2.64			2333	0.87					●		
<b>2</b>	0513	1.27		<b>10</b>	0542	2.73		<b>18</b>	0031	2.51	<b>26</b>	0000	0.96
	1125	2.38			1144	0.41			0615	1.25		0600	2.71
WE	1734	0.64		TH	1833	2.84		FR	1235	2.34		1209	0.30
			●					○	1828	0.94		1916	2.91
<b>3</b>	0054	2.71		<b>11</b>	0007	0.95		<b>19</b>	0127	2.61	<b>27</b>	0044	1.06
	0633	1.12			0610	2.66			0713	1.05		0643	2.63
TH	1253	2.48		FR	1215	0.46		SA	1342	2.53		1252	0.40
●	1851	0.63			1908	2.76			1927	0.88		2004	2.78
<b>4</b>	0157	2.81		<b>12</b>	0041	1.04		<b>20</b>	0214	2.70	<b>28</b>	0130	1.15
	0740	0.92			0639	2.58			0800	0.84		0732	2.53
FR	1408	2.64		SA	1247	0.54		SU	1438	2.73		1341	0.54
	1956	0.61			1944	2.68			2018	0.83		2059	2.66
<b>5</b>	0250	2.89		<b>13</b>	0115	1.15		<b>21</b>	0255	2.77	<b>29</b>	0224	1.21
	0834	0.72			0711	2.48			0844	0.64		0835	2.43
SA	1509	2.78		SU	1322	0.64		MO	1529	2.90		1440	0.70
	2050	0.61			2024	2.58			2105	0.80		2202	2.58
<b>6</b>	0335	2.91		<b>14</b>	0154	1.26		<b>22</b>	0333	2.80	<b>30</b>	0334	1.23
	0919	0.56			0749	2.38			0925	0.47		0957	2.36
SU	1600	2.88		MO	1400	0.75		TU	1615	3.02		1557	0.84
	2138	0.65			2114	2.48			2150	0.80		2314	2.56
<b>7</b>	0414	2.89		<b>15</b>	0242	1.36		<b>23</b>	0410	2.81	<b>31</b>	0456	1.15
	1000	0.46			0839	2.28			1006	0.33		1130	2.41
MO	1645	2.92		TU	1450	0.87		WE	1700	3.08		1723	0.90
	2220	0.72			2215	2.42			2234	0.82			
<b>8</b>	0446	2.85		<b>16</b>	0345	1.41		<b>24</b>	0446	2.80			
	1037	0.40			0947	2.20			1047	0.26			
TU	1724	2.92		WE	1557	0.96		TH	1745	3.08			
	2258	0.79			2327	2.43			2317	0.88			

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**APRIL – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0024	2.61		<b>9</b>	0534	2.63		<b>17</b>	0032	2.54		<b>25</b>	0034	1.06
	0612	0.99			1137	0.51			0625	0.91			0639	2.61
FR	1253	2.56		SA	1830	2.87		SU	1319	2.70		MO	1239	0.55
●	1840	0.89		○				○	1900	1.09			1948	2.83
<b>2</b>	0126	2.69		<b>10</b>	0008	1.07		<b>18</b>	0127	2.62		<b>26</b>	0122	1.10
	0714	0.80			0605	2.57			0718	0.69			0736	2.51
SA	1400	2.75		SU	1208	0.60		MO	1418	2.93		TU	1330	0.74
	1943	0.86			1904	2.77			1956	1.03			2039	2.70
<b>3</b>	0216	2.75		<b>11</b>	0040	1.15		<b>19</b>	0215	2.69		<b>27</b>	0217	1.12
	0804	0.63			0639	2.48			0807	0.49			0845	2.43
SU	1456	2.91		MO	1241	0.71		TU	1511	3.11		WE	1430	0.93
	2035	0.84			1941	2.66			2046	0.98			2136	2.60
<b>4</b>	0300	2.77		<b>12</b>	0115	1.23		<b>20</b>	0259	2.73		<b>28</b>	0324	1.09
	0847	0.51			0718	2.39			0854	0.34			1008	2.42
MO	1542	3.00		TU	1316	0.83		WE	1600	3.21		TH	1545	1.09
	2119	0.85			2025	2.55			2134	0.96			2241	2.56
<b>5</b>	0336	2.76		<b>13</b>	0159	1.30		<b>21</b>	0341	2.76		<b>29</b>	0435	1.01
	0925	0.44			0809	2.30			0939	0.25			1130	2.52
TU	1620	3.04		WE	1403	0.96		TH	1646	3.24		FR	1707	1.15
	2158	0.87			2118	2.47			2219	0.95			2346	2.56
<b>6</b>	0407	2.73		<b>14</b>	0255	1.32		<b>22</b>	0422	2.77		<b>30</b>	0542	0.87
	1000	0.41			0919	2.25			1024	0.23			1243	2.69
WE	1655	3.04		TH	1506	1.08		FR	1732	3.20		SA	1821	1.14
	2233	0.91			2223	2.44			2304	0.97				
<b>7</b>	0436	2.71		<b>15</b>	0408	1.27		<b>23</b>	0505	2.75				
	1033	0.42			1046	2.30			1109	0.28				
TH	1728	3.01		FR	1629	1.16		SA	1817	3.10				
	2306	0.95			2330	2.47		○	2349	1.01				
<b>8</b>	0504	2.68		<b>16</b>	0522	1.12		<b>24</b>	0550	2.69				
	1106	0.45			1211	2.47			1153	0.39				
FR	1759	2.95		SA	1751	1.15		SU	1902	2.97				
	2337	1.00												

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When daylight saving time is in force, add one hour to times

# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**MAY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0045	2.59		<b>9</b>	0539	2.55		<b>17</b>	0036	2.58		<b>25</b>	0115	0.99
SU	0639	0.73		MO	1133	0.70		TU	0637	0.55		WE	0745	2.55
●	1343	2.87			1832	2.85			1355	3.09			1321	0.92
	1922	1.10	○					1930	1.23			2016	2.76	
<b>2</b>	0135	2.62		<b>10</b>	0012	1.17		<b>18</b>	0132	2.64		<b>26</b>	0207	0.97
MO	0727	0.61		TU	0615	2.48		WE	0732	0.39		TH	0854	2.51
	1432	3.01			1206	0.80			1450	3.24			1419	1.11
	2012	1.07			1907	2.75			2025	1.16			2106	2.66
<b>3</b>	0217	2.64		<b>11</b>	0046	1.20		<b>19</b>	0224	2.70		<b>27</b>	0304	0.94
TU	0809	0.53		WE	0658	2.41		TH	0824	0.28		FR	1005	2.54
	1514	3.09			1244	0.91			1542	3.31			1527	1.26
	2054	1.05			1945	2.67			2115	1.10			2200	2.58
<b>4</b>	0253	2.65		<b>12</b>	0127	1.20		<b>20</b>	0315	2.74		<b>28</b>	0404	0.88
WE	0846	0.49		TH	0752	2.36		FR	0915	0.25		SA	1115	2.64
	1550	3.12			1330	1.05			1631	3.30			1639	1.34
	2131	1.04			2031	2.59			2203	1.05			2300	2.53
<b>5</b>	0326	2.66		<b>13</b>	0217	1.16		<b>21</b>	0403	2.76		<b>29</b>	0503	0.80
TH	0922	0.48		FR	0902	2.36		SA	1004	0.28		SU	1218	2.77
	1624	3.11			1430	1.19			1718	3.24			1749	1.34
	2205	1.04			2126	2.53			2251	1.02			2357	2.51
<b>6</b>	0359	2.66		<b>14</b>	0320	1.08		<b>22</b>	0454	2.75		<b>30</b>	0557	0.72
FR	0957	0.50		SA	1024	2.46		SU	1052	0.37		MO	1314	2.91
	1656	3.08			1547	1.30			1803	3.14			1850	1.31
	2238	1.06			2230	2.51			2338	1.00	●			
<b>7</b>	0430	2.65		<b>15</b>	0430	0.93		<b>23</b>	0547	2.70		<b>31</b>	0047	2.51
SA	1030	0.54		SU	1144	2.65		MO	1140	0.53		TU	0645	0.65
	1728	3.02			1712	1.33			1847	3.02			1400	3.01
	2309	1.09			2335	2.53		○				1941	1.26	
<b>8</b>	0504	2.61		<b>16</b>	0536	0.74		<b>24</b>	0026	0.99				
SU	1102	0.61		MO	1253	2.88		TU	0644	2.63				
	1800	2.94			1827	1.29			1230	0.72				
	2340	1.13	○					1931	2.89					

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE – 2022

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0131	2.54	<b>9</b>	0024	1.10	<b>17</b>	0157	2.69	<b>25</b>	0233	0.79
0729	0.60		0646	2.47		0800	0.30	0944	2.64		
WE 1442	3.08		TH 1221	0.99		FR 1524	3.28	SA 1457	1.34		
2024	1.22		1912	2.77		2057	1.17	2115	2.59		
<b>2</b>	0212	2.57	<b>10</b>	0103	1.04	<b>18</b>	0255	2.74	<b>26</b>	0324	0.78
0809	0.57		0742	2.47		0856	0.30	1044	2.68		
TH 1519	3.11		FR 1310	1.12		SA 1615	3.28	SU 1600	1.43		
2102	1.19		1952	2.70		2148	1.07	2205	2.50		
<b>3</b>	0249	2.60	<b>11</b>	0149	0.95	<b>19</b>	0353	2.78	<b>27</b>	0417	0.77
0847	0.57		0847	2.52		0948	0.36	1141	2.75		
FR 1555	3.11		SA 1407	1.26		SU 1702	3.23	MO 1704	1.46		
2138	1.17		2040	2.63		2239	0.97	2300	2.44		
<b>4</b>	0327	2.62	<b>12</b>	0244	0.85	<b>20</b>	0450	2.78	<b>28</b>	0511	0.75
0924	0.59		1000	2.62		1039	0.48	1235	2.84		
SA 1630	3.08		SU 1515	1.38		MO 1747	3.15	TU 1807	1.45		
2212	1.16		2137	2.58		2327	0.90	2355	2.43		
<b>5</b>	0403	2.62	<b>13</b>	0345	0.73	<b>21</b>	0547	2.75	<b>29</b>	0602	0.72
0959	0.64		1114	2.78		1130	0.65	1324	2.92		
SU 1702	3.03		MO 1632	1.44		1830	3.05	WE 1902	1.40		
2245	1.16		2242	2.56		●		●			
<b>6</b>	0441	2.59	<b>14</b>	0453	0.59	<b>22</b>	0014	0.84	<b>30</b>	0046	2.45
1032	0.71		1225	2.96		0645	2.70	0651	0.68		
MO 1734	2.97		TU 1751	1.44		WE 1218	0.83	TH 1409	2.98		
2316	1.15		○ 2349	2.57		1909	2.94	1951	1.34		
<b>7</b>	0518	2.54	<b>15</b>	0600	0.46	<b>23</b>	0100	0.81			
1105	0.78		1330	3.12		0745	2.65				
TU 1805	2.90		WE 1901	1.37		TH 1308	1.02				
2349	1.14					1948	2.81				
<b>8</b>	0600	2.50	<b>16</b>	0055	2.63	<b>24</b>	0146	0.79			
1141	0.87		0702	0.36		0844	2.63				
WE 1837	2.83		TH 1429	3.23		FR 1400	1.20				
○			2002	1.27		2030	2.69				

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**JULY – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0134	2.50		<b>9</b>	0042	0.82		<b>17</b>	0245	2.75		<b>25</b>	0239	0.72
	0736	0.66			0730	2.62			0842	0.38			0959	2.65
FR	1451	3.02	SA	1255	1.14	SU	1557	3.21	MO	1512	1.42			
	2033	1.28		1918	2.76		2133	0.96		2108	2.47			
<b>2</b>	0219	2.55		<b>10</b>	0124	0.73		<b>18</b>	0348	2.81		<b>26</b>	0328	0.77
	0818	0.65			0830	2.66			0936	0.45			1054	2.65
SA	1530	3.04	SU	1347	1.28	MO	1644	3.18	TU	1612	1.49			
	2113	1.23		2001	2.69		2223	0.82		2200	2.39			
<b>3</b>	0302	2.58		<b>11</b>	0213	0.64		<b>19</b>	0447	2.83		<b>27</b>	0423	0.80
	0857	0.67			0935	2.72			1028	0.57			1150	2.68
SU	1606	3.04	MO	1447	1.40	TU	1726	3.12	WE	1716	1.51			
	2148	1.18		2054	2.62		2310	0.71		2300	2.35			
<b>4</b>	0345	2.59		<b>12</b>	0311	0.57		<b>20</b>	0543	2.83		<b>28</b>	0521	0.80
	0933	0.71			1045	2.81			1116	0.72			1245	2.74
MO	1639	3.01	TU	1558	1.48	WE	1804	3.04	TH	1819	1.47			
	2222	1.13		2200	2.57		2353	0.64						
<b>5</b>	0425	2.59		<b>13</b>	0417	0.51		<b>21</b>	0636	2.80		<b>29</b>	0004	2.36
	1010	0.76			1156	2.92			1202	0.88			0616	0.78
TU	1710	2.97	WE	1716	1.49	TH	1840	2.93	FR	1336	2.82			
	2256	1.07		2313	2.57	○			●	1916	1.39			
<b>6</b>	0506	2.58		<b>14</b>	0530	0.45		<b>22</b>	0035	0.62		<b>30</b>	0103	2.42
	1046	0.83			1304	3.03			0727	2.75			0708	0.74
WE	1739	2.93	TH	1833	1.41	FR	1247	1.04	SA	1422	2.89			
	2330	1.00	○				1914	2.81		2004	1.29			
<b>7</b>	0550	2.58		<b>15</b>	0028	2.61		<b>23</b>	0115	0.63		<b>31</b>	0157	2.49
	1126	0.91			0640	0.39			0816	2.70			0754	0.72
TH	1809	2.88	FR	1408	3.13	SA	1332	1.19	SU	1503	2.94			
○				1941	1.28		1947	2.69		2046	1.19			
<b>8</b>	0004	0.91		<b>16</b>	0139	2.68		<b>24</b>	0156	0.67				
	0637	2.59			0744	0.36			0906	2.67				
FR	1208	1.02	SA	1505	3.19	SU	1419	1.32						
	1842	2.82		2040	1.12		2025	2.57						

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

**AUGUST – 2022**

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0245	2.56		<b>9</b>	0147	0.51		<b>17</b>	0439	2.92		<b>25</b>	0332	0.86
MO	0836	0.72		TU	0911	2.73		WE	1015	0.65		TH	1059	2.51
	1540	2.96			1423	1.38			1658	3.03			1622	1.50
	2124	1.08			2023	2.60			2245	0.52			2212	2.27
<b>2</b>	0330	2.61		<b>10</b>	0243	0.51		<b>18</b>	0529	2.92		<b>26</b>	0437	0.90
	0915	0.74			1017	2.74			1100	0.76			1201	2.55
TU	1613	2.96		WE	1529	1.46		TH	1732	2.96		FR	1735	1.47
	2159	0.98			2130	2.54			2324	0.48			2327	2.28
<b>3</b>	0414	2.66		<b>11</b>	0351	0.52		<b>19</b>	0614	2.89		<b>27</b>	0544	0.90
	0954	0.78			1130	2.79			1141	0.89			1259	2.63
WE	1643	2.94		TH	1649	1.46		FR	1803	2.86		SA	1840	1.36
	2233	0.87			2250	2.52		●				●		
<b>4</b>	0457	2.69		<b>12</b>	0509	0.52		<b>20</b>	0001	0.48		<b>28</b>	0038	2.36
	1034	0.83			1242	2.87			0656	2.82			0643	0.86
TH	1712	2.91		FR	1812	1.35		SA	1220	1.01		SU	1348	2.73
	2308	0.76		○					1833	2.76			1932	1.21
<b>5</b>	0541	2.73		<b>13</b>	0015	2.56		<b>21</b>	0037	0.53		<b>29</b>	0139	2.48
	1115	0.91			0625	0.49			0737	2.74			0733	0.81
FR	1742	2.87		SA	1346	2.97		SU	1259	1.13		MO	1430	2.81
○	2344	0.67			1923	1.16			1903	2.65			2015	1.05
<b>6</b>	0627	2.74		<b>14</b>	0133	2.67		<b>22</b>	0114	0.60		<b>30</b>	0231	2.61
	1158	1.01			0732	0.47			0819	2.66			0818	0.79
SA	1815	2.81		SU	1444	3.06		MO	1338	1.25		TU	1508	2.86
					2023	0.95			1937	2.54			2054	0.89
<b>7</b>	0021	0.60		<b>15</b>	0243	2.78		<b>23</b>	0152	0.69		<b>31</b>	0318	2.72
	0716	2.75			0832	0.49			0904	2.59			0900	0.78
SU	1241	1.13		MO	1534	3.10		TU	1423	1.36		WE	1541	2.88
	1849	2.75			2115	0.76			2016	2.43			2130	0.75
<b>8</b>	0101	0.54		<b>16</b>	0345	2.88		<b>24</b>	0237	0.78				
	0811	2.74			0926	0.55			0958	2.53				
MO	1329	1.26		TU	1618	3.09			1516	1.45				
	1930	2.67			2201	0.61			2106	2.34				

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## SEPTEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0402	2.81		<b>9</b>	0333	0.64		<b>17</b>	0543	2.96		<b>25</b>	0505	1.05
TH	0941	0.80		FR	1104	2.64		SA	1115	0.88		SU	1209	2.47
	1613	2.87			1630	1.34			1724	2.77			1757	1.25
	2207	0.62			2246	2.45			2324	0.42				
<b>2</b>	0445	2.87		<b>10</b>	0457	0.68		<b>18</b>	0619	2.88		<b>26</b>	0017	2.37
FR	1022	0.83			1216	2.71			1150	0.97			0615	1.01
	1645	2.85		SA	1755	1.18		SU	1753	2.69		MO	1303	2.57
	2244	0.52		○				○	2359	0.49		●	1852	1.06
<b>3</b>	0530	2.90		<b>11</b>	0016	2.55		<b>19</b>	0654	2.78		<b>27</b>	0121	2.56
SA	1103	0.90			0616	0.66			1225	1.07			0711	0.94
	1716	2.82		SU	1321	2.82		MO	1823	2.60		TU	1349	2.66
	2321	0.45			1904	0.95							1937	0.86
<b>4</b>	0614	2.89		<b>12</b>	0133	2.72		<b>20</b>	0032	0.59		<b>28</b>	0215	2.75
SU	1145	0.99			0724	0.63			0730	2.68			0759	0.89
○	1750	2.76		MO	1417	2.91		TU	1300	1.17		WE	1430	2.73
					2001	0.73			1856	2.50			2018	0.67
<b>5</b>	0000	0.43		<b>13</b>	0238	2.88		<b>21</b>	0108	0.70		<b>29</b>	0302	2.90
MO	0700	2.84			0822	0.63			0810	2.57			0843	0.86
	1227	1.10		TU	1505	2.95		WE	1337	1.28		TH	1506	2.77
	1826	2.69			2050	0.55			1934	2.39			2058	0.51
<b>6</b>	0040	0.44		<b>14</b>	0334	2.99		<b>22</b>	0147	0.82		<b>30</b>	0348	3.01
TU	0751	2.76			0912	0.66			0858	2.47			0926	0.85
	1312	1.22		WE	1546	2.94		TH	1424	1.37		FR	1542	2.78
	1909	2.62			2132	0.43			2024	2.29			2138	0.39
<b>7</b>	0126	0.48		<b>15</b>	0422	3.03		<b>23</b>	0238	0.94				
WE	0847	2.68			0957	0.72			0957	2.40				
	1402	1.32		TH	1622	2.90		FR	1528	1.43				
	2004	2.53			2213	0.38			2132	2.22				
<b>8</b>	0222	0.56		<b>16</b>	0504	3.02		<b>24</b>	0346	1.03				
TH	0952	2.63			1038	0.80			1105	2.40				
	1508	1.37		FR	1654	2.84		SA	1646	1.39				
	2117	2.46			2249	0.38			2258	2.24				

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0431	3.06		<b>9</b>	0448	0.89		<b>17</b>	0542	2.94		<b>25</b>	0537	1.18
	1008	0.86			1146	2.59			1121	0.96			1206	2.45
SA	1617	2.78		SU	1735	0.96		MO	1717	2.63		TU	1803	0.89
	2218	0.32							2320	0.50				
<b>2</b>	0515	3.06		<b>10</b>	0019	2.62		<b>18</b>	0615	2.84		<b>26</b>	0058	2.68
	1050	0.91			0607	0.87			1153	1.03			0642	1.11
SU	1653	2.75		MO	1250	2.67		TU	1749	2.55		WE	1300	2.53
	2259	0.31		○	1840	0.74		○	2353	0.61			1855	0.67
<b>3</b>	0600	2.99		<b>11</b>	0129	2.82		<b>19</b>	0648	2.72		<b>27</b>	0153	2.91
	1132	0.98			0714	0.83			1225	1.11			0735	1.04
MO	1730	2.70		TU	1345	2.75		WE	1824	2.45		TH	1347	2.61
○	2340	0.35			1933	0.55							1941	0.48
<b>4</b>	0645	2.89		<b>12</b>	0227	2.99		<b>20</b>	0026	0.74		<b>28</b>	0244	3.08
	1215	1.07			0808	0.80			0725	2.60			0824	0.97
TU	1812	2.63		WE	1430	2.78		TH	1300	1.19		FR	1431	2.66
					2019	0.42			1903	2.35			2026	0.33
<b>5</b>	0023	0.43		<b>13</b>	0315	3.09		<b>21</b>	0103	0.87		<b>29</b>	0331	3.17
	0733	2.77			0855	0.80			0807	2.49			0909	0.93
WE	1259	1.15		TH	1510	2.78		FR	1343	1.25		SA	1513	2.70
	1900	2.54			2100	0.35			1956	2.26			2110	0.24
<b>6</b>	0110	0.56		<b>14</b>	0358	3.12		<b>22</b>	0150	1.01		<b>30</b>	0417	3.20
	0826	2.65			0936	0.82			0858	2.41			0953	0.92
TH	1350	1.21		FR	1545	2.75		SA	1438	1.28		SU	1554	2.72
	2002	2.45			2137	0.33			2106	2.21			2155	0.21
<b>7</b>	0208	0.70		<b>15</b>	0435	3.09		<b>23</b>	0254	1.14		<b>31</b>	0502	3.15
	0928	2.57			1014	0.85			0959	2.37			1037	0.93
FR	1457	1.22		SA	1615	2.72		SU	1549	1.23		MO	1636	2.71
	2124	2.40			2213	0.36			2232	2.27			2239	0.25
<b>8</b>	0322	0.83		<b>16</b>	0509	3.03		<b>24</b>	0416	1.20				
	1037	2.55			1048	0.90			1105	2.38				
SA	1617	1.14		SU	1646	2.68		MO	1702	1.09				
	2256	2.45			2246	0.42			2352	2.44				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0546	3.06		<b>9</b>	0114	2.90		<b>17</b>	0615	2.78		<b>25</b>	0128	2.99
	1121	0.95			0654	1.04			1159	1.05			0706	1.20
TU	1720	2.66		WE	1305	2.58		TH	1801	2.42		FR	1304	2.51
(O)	2324	0.35			1900	0.48			2352	0.77			1904	0.36
<b>2</b>	0631	2.93		<b>10</b>	0205	3.04		<b>18</b>	0648	2.68		<b>26</b>	0223	3.14
	1205	0.99			0747	0.99			1232	1.08			0800	1.11
WE	1808	2.59		TH	1352	2.60		FR	1844	2.35		SA	1358	2.58
					1944	0.39						1957	0.24	
<b>3</b>	0010	0.50		<b>11</b>	0251	3.12		<b>19</b>	0030	0.90		<b>27</b>	0315	3.22
	0717	2.80			0832	0.95			0725	2.58			0850	1.03
TH	1252	1.02		FR	1431	2.62		SA	1311	1.08		SU	1448	2.64
	1905	2.50			2025	0.36			1937	2.29			2046	0.18
<b>4</b>	0100	0.68		<b>12</b>	0330	3.13		<b>20</b>	0115	1.05		<b>28</b>	0403	3.23
	0806	2.67			0912	0.93			0808	2.50			0938	0.97
FR	1345	1.03		SA	1507	2.63		SU	1359	1.06		MO	1537	2.69
	2015	2.42			2102	0.36			2045	2.28			2136	0.18
<b>5</b>	0200	0.87		<b>13</b>	0405	3.10		<b>21</b>	0213	1.19		<b>29</b>	0449	3.19
	0901	2.57			0948	0.94			0859	2.43			1025	0.91
SA	1447	1.00		SU	1541	2.63		MO	1457	0.99		TU	1628	2.69
	2137	2.42			2138	0.39			2204	2.37			2225	0.26
<b>6</b>	0312	1.02		<b>14</b>	0439	3.05		<b>22</b>	0327	1.30		<b>30</b>	0535	3.10
	1003	2.52			1022	0.95			0959	2.39			1112	0.87
SU	1559	0.91		MO	1615	2.61		TU	1602	0.87		WE	1719	2.67
	2300	2.53			2213	0.46			2321	2.55			2313	0.39
<b>7</b>	0433	1.10		<b>15</b>	0511	2.97		<b>23</b>	0449	1.33				
	1109	2.51			1055	0.98			1103	2.39				
MO	1707	0.76		TU	1649	2.57			1709	0.71				
					2246	0.55								
<b>8</b>	0012	2.71		<b>16</b>	0543	2.88		<b>24</b>	0029	2.78				
	0549	1.09			1127	1.02			0603	1.28				
TU	1211	2.54		WE	1724	2.50			1206	2.44				
(O)	1808	0.61		(O)	2319	0.65			1809	0.52				

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Datum is Lowest Astronomical Tide

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# WESTERN PORT (STONY POINT)

LAT 38° 22' S    LONG 145° 13' E    TIME ZONE –1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER – 2022

	Time	m		Time	m		Time	m		Time	m			
<b>1</b>	0618	2.99		<b>9</b>	0138	2.97		<b>17</b>	0619	2.76		<b>25</b>	0201	3.08
	1159	0.84			0718	1.16			1212	0.92			0735	1.22
TH	1815	2.61		FR	1310	2.44		SA	1831	2.41		SU	1329	2.53
O					1908	0.47							1933	0.23
<b>2</b>	0002	0.57		<b>10</b>	0223	3.03		<b>18</b>	0007	0.91		<b>26</b>	0257	3.16
	0701	2.86			0806	1.11			0652	2.68			0832	1.09
FR	1246	0.81		SA	1355	2.48		SU	1247	0.87		MO	1430	2.62
	1916	2.54			1952	0.44			1923	2.40			2030	0.20
<b>3</b>	0053	0.78		<b>11</b>	0302	3.05		<b>19</b>	0052	1.05		<b>27</b>	0348	3.19
	0745	2.74			0847	1.06			0728	2.61			0924	0.96
SA	1336	0.78		SU	1435	2.52		MO	1328	0.81		TU	1529	2.69
	2024	2.51			2032	0.44			2024	2.42			2123	0.22
<b>4</b>	0150	0.97		<b>12</b>	0340	3.04		<b>20</b>	0145	1.19		<b>28</b>	0436	3.17
	0832	2.63			0926	1.03			0811	2.53			1015	0.82
SU	1430	0.75		MO	1514	2.54		TU	1415	0.74		WE	1626	2.73
	2135	2.53			2110	0.47			2132	2.49			2215	0.31
<b>5</b>	0254	1.14		<b>13</b>	0415	3.01		<b>21</b>	0247	1.32		<b>29</b>	0521	3.11
	0925	2.53			1000	1.01			0902	2.45			1102	0.70
MO	1529	0.70		TU	1552	2.54		WE	1513	0.65		TH	1723	2.74
	2245	2.61			2146	0.52			2245	2.62			2305	0.45
<b>6</b>	0405	1.23		<b>14</b>	0447	2.96		<b>22</b>	0400	1.40		<b>30</b>	0602	3.03
	1023	2.46			1034	0.99			1005	2.40			1148	0.61
TU	1630	0.64		WE	1630	2.52		TH	1617	0.55		FR	1820	2.72
	2349	2.73			2221	0.60			2355	2.79		O	2354	0.63
<b>7</b>	0517	1.26		<b>15</b>	0519	2.89		<b>23</b>	0518	1.40		<b>31</b>	0643	2.92
	1123	2.43			1106	0.98			1114	2.40			1234	0.55
WE	1728	0.57		TH	1708	2.48		FR	1726	0.44		SA	1917	2.68
					2254	0.69								
<b>8</b>	0046	2.87		<b>16</b>	0549	2.83		<b>24</b>	0100	2.95				
	0622	1.22			1138	0.96			0631	1.33				
TH	1220	2.42		FR	1747	2.44		SA	1223	2.45				
	1820	0.51		O	2329	0.79			1832	0.32				

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Datum is Lowest Astronomical Tide

When daylight saving time is in force, add one hour to times

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## January 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sat	05:02	19:48	03:00	18:21
2	Sun	05:02	19:48	03:54	19:34
3	Mon	05:03	19:48	04:58	20:37
4	Tue	05:04	19:48	06:09	21:29
5	Wed	05:05	19:48	07:24	22:10
6	Thu	05:06	19:48	08:38	22:44
7	Fri	05:07	19:48	09:48	23:13
8	Sat	05:08	19:48	10:54	23:38
9	Sun	05:09	19:48	11:56	
10	Mon	05:10	19:48	12:57	00:02
11	Tue	05:11	19:48	13:57	00:27
12	Wed	05:12	19:47	14:57	00:52
13	Thu	05:13	19:47	15:57	01:20
14	Fri	05:14	19:47	16:56	01:52
15	Sat	05:15	19:47	17:54	02:29
16	Sun	05:16	19:46	18:47	03:12
17	Mon	05:17	19:46	19:36	04:02
18	Tue	05:18	19:45	20:19	04:58
19	Wed	05:19	19:45	20:56	05:58
20	Thu	05:20	19:44	21:28	07:01
21	Fri	05:21	19:44	21:57	08:04
22	Sat	05:22	19:43	22:23	09:08
23	Sun	05:24	19:43	22:48	10:12
24	Mon	05:25	19:42	23:14	11:17
25	Tue	05:26	19:41	23:42	12:23
26	Wed	05:27	19:41		13:32
27	Thu	05:28	19:40	00:14	14:45
28	Fri	05:29	19:39	00:52	15:59
29	Sat	05:30	19:38	01:38	17:11
30	Sun	05:32	19:38	02:35	18:17
31	Mon	05:33	19:37	03:43	19:14

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## February 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Tue	05:34	19:36	04:56	20:00
2	Wed	05:35	19:35	06:11	20:38
3	Thu	05:36	19:34	07:24	21:10
4	Fri	05:37	19:33	08:34	21:37
5	Sat	05:39	19:32	09:40	22:03
6	Sun	05:40	19:31	10:44	22:28
7	Mon	05:41	19:30	11:45	22:53
8	Tue	05:42	19:29	12:46	23:20
9	Wed	05:43	19:28	13:47	23:50
10	Thu	05:44	19:27	14:47	
11	Fri	05:45	19:26	15:45	00:25
12	Sat	05:47	19:25	16:41	01:06
13	Sun	05:48	19:23	17:31	01:54
14	Mon	05:49	19:22	18:16	02:48
15	Tue	05:50	19:21	18:55	03:47
16	Wed	05:51	19:20	19:29	04:50
17	Thu	05:52	19:19	19:59	05:54
18	Fri	05:53	19:17	20:26	06:59
19	Sat	05:54	19:16	20:52	08:04
20	Sun	05:56	19:15	21:18	09:09
21	Mon	05:57	19:13	21:45	10:16
22	Tue	05:58	19:12	22:15	11:25
23	Wed	05:59	19:11	22:50	12:35
24	Thu	06:00	19:09	23:32	13:47
25	Fri	06:01	19:08		14:59
26	Sat	06:02	19:07	00:24	16:05
27	Sun	06:03	19:05	01:25	17:04
28	Mon	06:04	19:04	02:35	17:53

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## March 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Tue	06:05	19:02	03:48	18:33
2	Wed	06:06	19:01	05:01	19:07
3	Thu	06:07	19:00	06:12	19:36
4	Fri	06:08	18:58	07:20	20:02
5	Sat	06:09	18:57	08:26	20:27
6	Sun	06:10	18:55	09:29	20:52
7	Mon	06:11	18:54	10:32	21:19
8	Tue	06:12	18:52	11:34	21:48
9	Wed	06:13	18:51	12:35	22:21
10	Thu	06:14	18:49	13:35	23:00
11	Fri	06:15	18:48	14:32	23:45
12	Sat	06:16	18:46	15:24	
13	Sun	06:17	18:45	16:11	00:36
14	Mon	06:18	18:43	16:52	01:34
15	Tue	06:19	18:42	17:28	02:35
16	Wed	06:20	18:40	17:59	03:39
17	Thu	06:21	18:39	18:28	04:44
18	Fri	06:22	18:37	18:54	05:50
19	Sat	06:23	18:35	19:20	06:57
20	Sun	06:24	18:34	19:47	08:04
21	Mon	06:25	18:32	20:17	09:14
22	Tue	06:26	18:31	20:50	10:26
23	Wed	06:27	18:29	21:30	11:39
24	Thu	06:28	18:28	22:19	12:52
25	Fri	06:29	18:26	23:17	14:00
26	Sat	06:30	18:25		15:00
27	Sun	06:31	18:23	00:23	15:50
28	Mon	06:32	18:22	01:34	16:32
29	Tue	06:33	18:20	02:45	17:07
30	Wed	06:33	18:19	03:56	17:36
31	Thu	06:34	18:17	05:04	18:03

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## April 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Fri	06:35	18:15	06:09	18:28
2	Sat	06:36	18:14	07:13	18:52
3	Sun	06:37	18:12	08:17	19:18
4	Mon	06:38	18:11	09:20	19:46
5	Tue	06:39	18:09	10:22	20:18
6	Wed	06:40	18:08	11:23	20:55
7	Thu	06:41	18:06	12:22	21:37
8	Fri	06:42	18:05	13:17	22:26
9	Sat	06:43	18:03	14:06	23:20
10	Sun	06:44	18:02	14:48	
11	Mon	06:45	18:01	15:26	00:20
12	Tue	06:46	17:59	15:58	01:22
13	Wed	06:46	17:58	16:27	02:26
14	Thu	06:47	17:56	16:54	03:31
15	Fri	06:48	17:55	17:20	04:37
16	Sat	06:49	17:53	17:47	05:45
17	Sun	06:50	17:52	18:15	06:55
18	Mon	06:51	17:51	18:48	08:08
19	Tue	06:52	17:49	19:27	09:24
20	Wed	06:53	17:48	20:13	10:40
21	Thu	06:54	17:47	21:10	11:51
22	Fri	06:55	17:45	22:15	12:56
23	Sat	06:56	17:44	23:25	13:50
24	Sun	06:57	17:43		14:34
25	Mon	06:58	17:41	00:36	15:10
26	Tue	06:58	17:40	01:46	15:40
27	Wed	06:59	17:39	02:54	16:07
28	Thu	07:00	17:38	03:59	16:31
29	Fri	07:01	17:36	05:02	16:56
30	Sat	07:02	17:35	06:05	17:20

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## May 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sun	07:03	17:34	07:07	17:47
2	Mon	07:04	17:33	08:10	18:17
3	Tue	07:05	17:32	09:12	18:52
4	Wed	07:06	17:31	10:12	19:32
5	Thu	07:07	17:30	11:09	20:18
6	Fri	07:08	17:29	12:00	21:10
7	Sat	07:09	17:28	12:45	22:08
8	Sun	07:09	17:27	13:24	23:08
9	Mon	07:10	17:25	13:57	
10	Tue	07:11	17:25	14:27	00:10
11	Wed	07:12	17:24	14:54	01:14
12	Thu	07:13	17:23	15:19	02:18
13	Fri	07:14	17:22	15:45	03:24
14	Sat	07:15	17:21	16:12	04:32
15	Sun	07:16	17:20	16:43	05:43
16	Mon	07:16	17:19	17:19	06:59
17	Tue	07:17	17:18	18:03	08:16
18	Wed	07:18	17:18	18:57	09:33
19	Thu	07:19	17:17	20:01	10:44
20	Fri	07:20	17:16	21:12	11:44
21	Sat	07:21	17:15	22:25	12:33
22	Sun	07:21	17:15	23:37	13:12
23	Mon	07:22	17:14		13:44
24	Tue	07:23	17:13	00:46	14:12
25	Wed	07:24	17:13	01:52	14:37
26	Thu	07:25	17:12	02:55	15:01
27	Fri	07:25	17:12	03:57	15:25
28	Sat	07:26	17:11	04:59	15:50
29	Sun	07:27	17:11	06:01	16:19
30	Mon	07:28	17:10	07:03	16:51
31	Tue	07:28	17:10	08:03	17:29

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## June 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Wed	07:29	17:10	09:01	18:13
2	Thu	07:30	17:09	09:55	19:04
3	Fri	07:30	17:09	10:42	19:59
4	Sat	07:31	17:09	11:23	20:58
5	Sun	07:31	17:08	11:58	21:59
6	Mon	07:32	17:08	12:28	23:01
7	Tue	07:33	17:08	12:55	
8	Wed	07:33	17:08	13:20	00:03
9	Thu	07:34	17:08	13:45	01:06
10	Fri	07:34	17:07	14:11	02:11
11	Sat	07:35	17:07	14:39	03:20
12	Sun	07:35	17:07	15:11	04:32
13	Mon	07:36	17:07	15:51	05:48
14	Tue	07:36	17:07	16:40	07:06
15	Wed	07:36	17:07	17:41	08:21
16	Thu	07:37	17:07	18:51	09:29
17	Fri	07:37	17:07	20:07	10:24
18	Sat	07:37	17:08	21:22	11:09
19	Sun	07:38	17:08	22:35	11:45
20	Mon	07:38	17:08	23:43	12:15
21	Tue	07:38	17:08		12:41
22	Wed	07:38	17:08	00:48	13:05
23	Thu	07:39	17:08	01:51	13:29
24	Fri	07:39	17:09	02:53	13:54
25	Sat	07:39	17:09	03:54	14:22
26	Sun	07:39	17:09	04:56	14:53
27	Mon	07:39	17:10	05:57	15:29
28	Tue	07:39	17:10	06:55	16:11
29	Wed	07:39	17:11	07:50	16:59
30	Thu	07:39	17:11	08:39	17:53

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## July 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Fri	07:39	17:11	09:22	18:52
2	Sat	07:39	17:12	09:59	19:52
3	Sun	07:39	17:12	10:31	20:54
4	Mon	07:39	17:13	10:58	21:55
5	Tue	07:39	17:13	11:24	22:57
6	Wed	07:38	17:14	11:48	23:59
7	Thu	07:38	17:14	12:12	
8	Fri	07:38	17:15	12:37	01:04
9	Sat	07:38	17:16	13:07	02:11
10	Sun	07:37	17:16	13:42	03:23
11	Mon	07:37	17:17	14:25	04:38
12	Tue	07:37	17:18	15:19	05:54
13	Wed	07:36	17:18	16:25	07:06
14	Thu	07:36	17:19	17:40	08:08
15	Fri	07:35	17:20	18:58	08:59
16	Sat	07:35	17:20	20:14	09:40
17	Sun	07:34	17:21	21:27	10:13
18	Mon	07:34	17:22	22:35	10:42
19	Tue	07:33	17:22	23:41	11:08
20	Wed	07:32	17:23		11:32
21	Thu	07:32	17:24	00:44	11:57
22	Fri	07:31	17:25	01:47	12:24
23	Sat	07:30	17:25	02:49	12:54
24	Sun	07:30	17:26	03:50	13:28
25	Mon	07:29	17:27	04:50	14:09
26	Tue	07:28	17:28	05:46	14:55
27	Wed	07:27	17:29	06:37	15:48
28	Thu	07:26	17:29	07:22	16:45
29	Fri	07:26	17:30	08:00	17:46
30	Sat	07:25	17:31	08:33	18:47
31	Sun	07:24	17:32	09:02	19:49

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## August 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Mon	07:23	17:33	09:28	20:50
2	Tue	07:22	17:34	09:52	21:52
3	Wed	07:21	17:34	10:16	22:55
4	Thu	07:20	17:35	10:40	
5	Fri	07:19	17:36	11:07	00:00
6	Sat	07:18	17:37	11:38	01:09
7	Sun	07:17	17:38	12:17	02:20
8	Mon	07:16	17:39	13:04	03:34
9	Tue	07:14	17:40	14:03	04:46
10	Wed	07:13	17:40	15:13	05:51
11	Thu	07:12	17:41	16:29	06:46
12	Fri	07:11	17:42	17:47	07:32
13	Sat	07:10	17:43	19:03	08:08
14	Sun	07:08	17:44	20:15	08:40
15	Mon	07:07	17:45	21:24	09:07
16	Tue	07:06	17:46	22:30	09:33
17	Wed	07:05	17:46	23:35	09:58
18	Thu	07:03	17:47		10:25
19	Fri	07:02	17:48	00:39	10:54
20	Sat	07:01	17:49	01:41	11:27
21	Sun	06:59	17:50	02:42	12:05
22	Mon	06:58	17:51	03:40	12:50
23	Tue	06:57	17:52	04:33	13:41
24	Wed	06:55	17:53	05:20	14:37
25	Thu	06:54	17:53	06:00	15:37
26	Fri	06:53	17:54	06:35	16:39
27	Sat	06:51	17:55	07:05	17:41
28	Sun	06:50	17:56	07:32	18:43
29	Mon	06:48	17:57	07:56	19:46
30	Tue	06:47	17:58	08:20	20:49
31	Wed	06:45	17:58	08:44	21:54

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## September 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Thu	06:44	17:59	09:10	23:01
2	Fri	06:42	18:00	09:40	
3	Sat	06:41	18:01	10:15	00:10
4	Sun	06:39	18:02	10:57	01:22
5	Mon	06:38	18:03	11:50	02:33
6	Tue	06:36	18:04	12:54	03:39
7	Wed	06:35	18:04	14:06	04:36
8	Thu	06:33	18:05	15:22	05:24
9	Fri	06:32	18:06	16:38	06:03
10	Sat	06:30	18:07	17:52	06:36
11	Sun	06:29	18:08	19:03	07:05
12	Mon	06:27	18:09	20:11	07:31
13	Tue	06:25	18:10	21:18	07:57
14	Wed	06:24	18:10	22:23	08:23
15	Thu	06:22	18:11	23:28	08:52
16	Fri	06:21	18:12		09:24
17	Sat	06:19	18:13	00:31	10:00
18	Sun	06:18	18:14	01:31	10:43
19	Mon	06:16	18:15	02:27	11:32
20	Tue	06:14	18:16	03:16	12:26
21	Wed	06:13	18:17	03:59	13:25
22	Thu	06:11	18:17	04:35	14:27
23	Fri	06:10	18:18	05:07	15:29
24	Sat	06:08	18:19	05:34	16:32
25	Sun	06:07	18:20	06:00	17:35
26	Mon	06:05	18:21	06:24	18:39
27	Tue	06:03	18:22	06:48	19:44
28	Wed	06:02	18:23	07:13	20:52
29	Thu	06:00	18:24	07:42	22:02
30	Fri	05:59	18:25	08:15	23:14

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## October 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sat	05:57	18:25	08:55	
2	Sun	05:56	18:26	09:45	00:25
3	Mon	05:54	18:27	10:44	01:33
4	Tue	05:52	18:28	11:52	02:32
5	Wed	05:51	18:29	13:05	03:21
6	Thu	05:49	18:30	14:20	04:02
7	Fri	05:48	18:31	15:32	04:36
8	Sat	05:46	18:32	16:43	05:05
9	Sun	05:45	18:33	17:52	05:32
10	Mon	05:43	18:34	18:59	05:57
11	Tue	05:42	18:35	20:05	06:23
12	Wed	05:40	18:36	21:11	06:50
13	Thu	05:39	18:37	22:16	07:20
14	Fri	05:37	18:38	23:19	07:55
15	Sat	05:36	18:39		08:36
16	Sun	05:35	18:40	00:17	09:22
17	Mon	05:33	18:41	01:09	10:15
18	Tue	05:32	18:42	01:55	11:12
19	Wed	05:30	18:43	02:34	12:13
20	Thu	05:29	18:44	03:07	13:14
21	Fri	05:28	18:45	03:36	14:17
22	Sat	05:26	18:46	04:02	15:20
23	Sun	05:25	18:47	04:26	16:23
24	Mon	05:24	18:48	04:50	17:28
25	Tue	05:22	18:49	05:15	18:36
26	Wed	05:21	18:50	05:42	19:47
27	Thu	05:20	18:51	06:14	21:01
28	Fri	05:19	18:52	06:53	22:15
29	Sat	05:17	18:53	07:40	23:25
30	Sun	05:16	18:54	08:37	
31	Mon	05:15	18:55	09:44	00:28

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## November 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Tue	05:14	18:56	10:55	01:21
2	Wed	05:13	18:57	12:09	02:03
3	Thu	05:12	18:58	13:21	02:38
4	Fri	05:11	19:00	14:31	03:09
5	Sat	05:09	19:01	15:38	03:35
6	Sun	05:08	19:02	16:44	04:00
7	Mon	05:07	19:03	17:50	04:24
8	Tue	05:06	19:04	18:55	04:50
9	Wed	05:05	19:05	20:01	05:19
10	Thu	05:05	19:06	21:05	05:52
11	Fri	05:04	19:07	22:05	06:30
12	Sat	05:03	19:08	23:01	07:14
13	Sun	05:02	19:09	23:49	08:05
14	Mon	05:01	19:11		09:01
15	Tue	05:00	19:12	00:31	10:00
16	Wed	05:00	19:13	01:06	11:01
17	Thu	04:59	19:14	01:36	12:02
18	Fri	04:58	19:15	02:02	13:03
19	Sat	04:57	19:16	02:27	14:05
20	Sun	04:57	19:17	02:50	15:08
21	Mon	04:56	19:18	03:14	16:14
22	Tue	04:56	19:19	03:40	17:24
23	Wed	04:55	19:20	04:10	18:37
24	Thu	04:55	19:21	04:46	19:53
25	Fri	04:54	19:23	05:30	21:08
26	Sat	04:54	19:24	06:25	22:17
27	Sun	04:53	19:25	07:31	23:15
28	Mon	04:53	19:26	08:44	
29	Tue	04:53	19:27	09:59	00:03
30	Wed	04:52	19:28	11:12	00:41

Based on Geoscience Australia material

# Times of Sunrise, Sunset, Moonrise and Moonset for The Rip (Port Phillip Heads)

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

## December 2022

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Thu	04:52	19:29	12:23	01:12
2	Fri	04:52	19:30	13:30	01:39
3	Sat	04:52	19:31	14:36	02:04
4	Sun	04:51	19:32	15:40	02:29
5	Mon	04:51	19:32	16:45	02:54
6	Tue	04:51	19:33	17:49	03:21
7	Wed	04:51	19:34	18:53	03:51
8	Thu	04:51	19:35	19:55	04:27
9	Fri	04:51	19:36	20:52	05:09
10	Sat	04:51	19:37	21:44	05:57
11	Sun	04:51	19:38	22:28	06:51
12	Mon	04:51	19:38	23:05	07:50
13	Tue	04:52	19:39	23:36	08:50
14	Wed	04:52	19:40		09:50
15	Thu	04:52	19:41	00:04	10:51
16	Fri	04:52	19:41	00:28	11:51
17	Sat	04:53	19:42	00:51	12:52
18	Sun	04:53	19:43	01:14	13:55
19	Mon	04:53	19:43	01:38	15:00
20	Tue	04:54	19:44	02:05	16:10
21	Wed	04:54	19:44	02:37	17:25
22	Thu	04:55	19:45	03:17	18:41
23	Fri	04:55	19:45	04:07	19:55
24	Sat	04:56	19:46	05:09	21:00
25	Sun	04:56	19:46	06:21	21:54
26	Mon	04:57	19:46	07:39	22:38
27	Tue	04:58	19:47	08:56	23:12
28	Wed	04:58	19:47	10:11	23:42
29	Thu	04:59	19:47	11:21	
30	Fri	05:00	19:48	12:28	00:08
31	Sat	05:01	19:48	13:33	00:33

Based on Geoscience Australia material

# **Notes**

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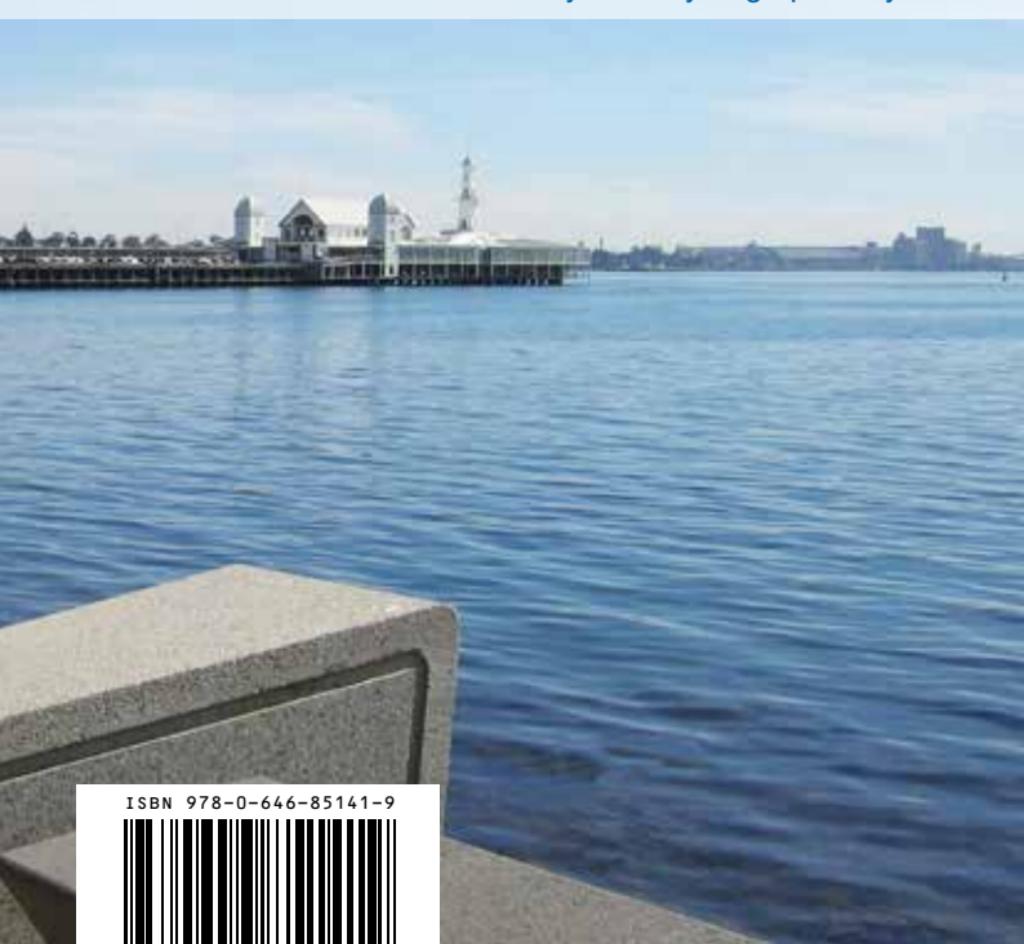
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