



# VIC TIDES

## 2021

### EDITION 5

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**The Port of Geelong handles over 600 commercial vessels a year and operates 24/7, 365 days of the year.**

**The Port of Hastings handles over 120 commercial vessels a year and operates 24/7, 365 days of the year.**

Large vessels must keep within the marked channels or anchorages and 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.

# 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.



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.





Dear Mariner,

As in previous years, Victorian Regional Channels Authority has published the 'Vic Tides' tables.

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

I wish you a safe year of navigating within Port Phillip and along the Victorian coastline and take the opportunity to remind you to:

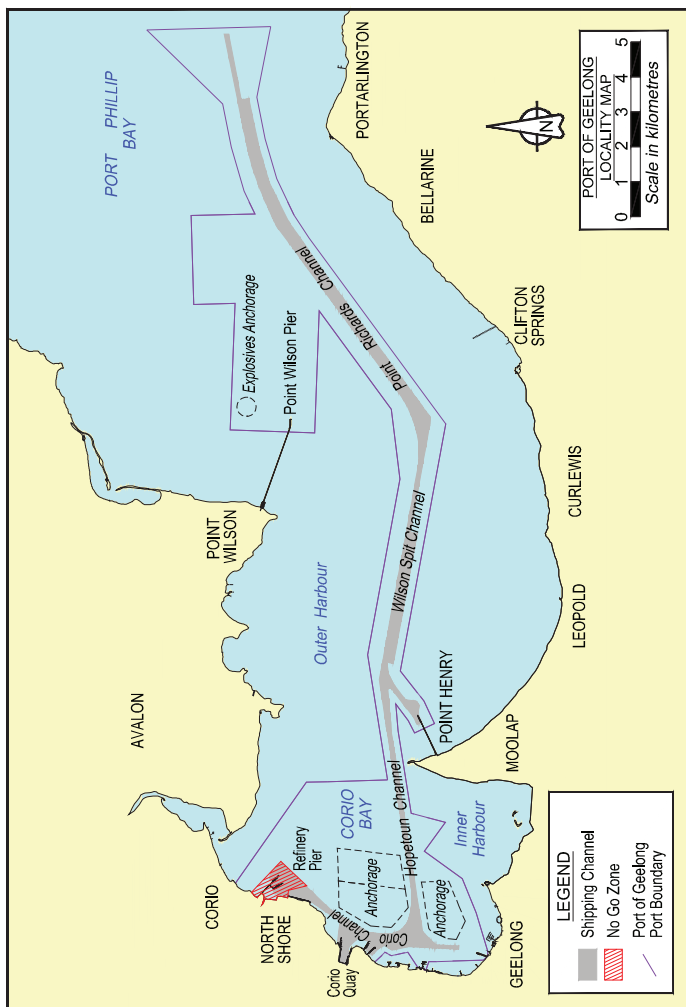
- Always 'Keep Clear of Big Ships'; and
- Comply with the International Regulations for Preventing Collisions at Sea
- Comply with Maritime Safety Victoria's waterway rules
- Stay COVID19 safe by practicing good hygiene, physical distancing and following advice from the Department of Health and Human Services

A handwritten signature in blue ink that reads "D. I. Shennan". The signature is written in a cursive, flowing style.

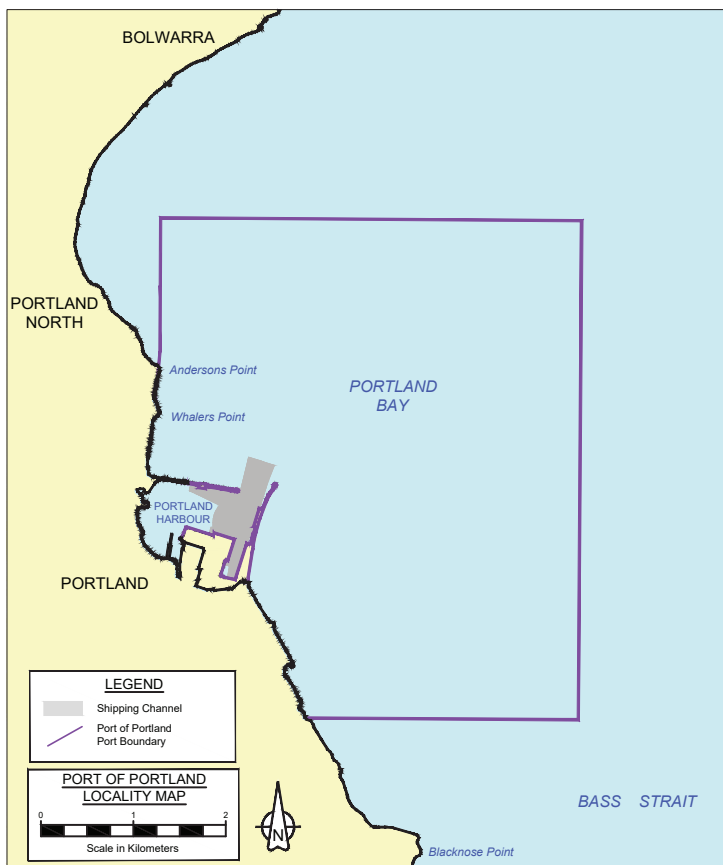
**Captain David Shennan**

Harbour Master

Victorian Regional Channels Authority







# Contents

Glossary .....	10
----------------	----

## **Geelong**

Time Differences, Tide Datums and Tide Predictions .....	12
--	----

## **Lakes Entrance Outer**

Time Differences, Tide Datums and Tide Predictions.....	26
---	----

## **Melbourne (Williamstown)**

Time Differences, Tide Datums and Tide Predictions.....	40
---	----

## **Port Phillip Heads (Point Lonsdale)**

Time Differences, Tide Datums and Tide Predictions.....	54
---	----

## **The Rip**

Tide Datums, Tide Predictions, Tidal Streams and Predicted Slack Water Times .....	68
---	----

## **Port Welshpool Pier**

Time Differences, Tide Datums and Tide Predictions.....	98
---	----

## **Portland**

Time Differences, Tide Datums and Tide Predictions.....	112
---	-----

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

Time Differences, Tide Datums and Tide Predictions.....	126
---	-----

## **The Rip (Port Phillip Heads)**

Times of Sunrise, Sunset, Moonrise and Moonset.....	140
---	-----

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Victorian Tide Tables page under News & Publications at  
[www.regionalchannels.vic.gov.au](http://www.regionalchannels.vic.gov.au)*

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# VRCA

Victorian Regional Channels Authority (VRCA) is established to manage the channels, navigation aids and navigation of commercial shipping in the port waters of Geelong and Hastings under the Port Management Act (1995) and the Transport Integration Act (2010).

Our aim is to ensure the safety of all vessels both commercial and recreational, using our port waters.



# 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 high 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 HM	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<i>Port Phillip Heads</i>	<i>(3 20)</i>	<i>1.6</i>	<i>1.1</i>	<i>0.7</i>	<i>0.2</i>
<i>West Channel Pile Light</i>	<i>(0 20)</i>	<i>0.9</i>	<i>0.6</i>	<i>0.4</i>	<i>0.1</i>
<i>Portarlington</i>	<i>(0 15)</i>	<i>0.9</i>	<i>0.6</i>	<i>0.4</i>	<i>0.1</i>
<i>No. 1 Point Richards Channel</i>	<i>(0 10)</i>	<i>0.9</i>	<i>0.6</i>	<i>0.4</i>	<i>0.1</i>
<i>Point Wilson</i>	<i>(0 05)</i>	<i>0.9</i>	<i>0.6</i>	<i>0.4</i>	<i>0.1</i>
<i>Point Henry</i>	<i>(0 02)</i>	<i>1.0</i>	<i>0.7</i>	<i>0.5</i>	<i>0.1</i>
<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)

<b>AHD metres</b>	<b>Predominantly diurnal tides</b>	<b>Chart Datum metres</b>
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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0518 1.07 FR 1604 0.92 2317 0.17		<b>9</b> 0354 0.44 1010 1.02 SA 1707 0.25 2326 0.93		<b>17</b> 0003 0.19 0632 1.08 SU 1256 0.39 1806 0.92		<b>25</b> 0450 0.56 1053 0.93 MO 1807 0.25	
<b>2</b> 0557 1.08 1204 0.51 SA 1656 0.94		<b>10</b> 0443 0.51 1049 1.00 SU 1806 0.21		<b>18</b> 0046 0.22 0711 1.07 MO 1334 0.36 1905 0.93		<b>26</b> 0059 0.87 0545 0.61 TU 1138 0.90 1905 0.24	
<b>3</b> 0001 0.18 0634 1.08 SU 1245 0.48 1746 0.95		<b>11</b> 0040 0.94 0543 0.57 MO 1134 0.98 1910 0.18		<b>19</b> 0126 0.25 0746 1.06 TU 1412 0.34 1955 0.92		<b>27</b> 0214 0.90 0656 0.64 WE 1231 0.88 2009 0.22	
<b>4</b> 0043 0.20 0710 1.08 MO 1325 0.45 1838 0.95		<b>12</b> 0157 0.96 0710 0.61 TU 1230 0.96 2015 0.16		<b>20</b> 0203 0.30 0820 1.05 WE 1448 0.32 2041 0.92		<b>28</b> 0316 0.94 0854 0.63 TH 1334 0.87 2112 0.20	
<b>5</b> 0121 0.23 0746 1.07 TU 1404 0.41 1931 0.95		<b>13</b> 0309 1.00 0904 0.60 WE 1331 0.94 ● 2118 0.16		<b>21</b> 0237 0.35 0852 1.02 TH 1525 0.30 ● 2125 0.91		<b>29</b> 0407 0.98 1005 0.58 FR 1441 0.88 ○ 2209 0.18	
<b>6</b> 0158 0.26 0822 1.06 WE 1445 0.37 ● 2026 0.95		<b>14</b> 0411 1.04 1024 0.55 TH 1433 0.93 2219 0.16		<b>22</b> 0308 0.40 0920 1.00 FR 1601 0.29 2210 0.89		<b>30</b> 0452 1.02 1058 0.52 SA 1545 0.89 2300 0.18	
<b>7</b> 0234 0.31 0858 1.05 TH 1529 0.33 2122 0.94		<b>15</b> 0504 1.06 1124 0.49 FR 1535 0.93 2315 0.17		<b>23</b> 0335 0.45 0946 0.98 SA 1638 0.27 2257 0.88		<b>31</b> 0532 1.04 1145 0.46 SU 1647 0.92 2347 0.19	
<b>8</b> 0312 0.37 0933 1.03 FR 1615 0.29 2221 0.94		<b>16</b> 0551 1.08 1213 0.44 SA 1647 0.92		<b>24</b> 0408 0.51 1015 0.95 SU 1719 0.26 2351 0.87			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0611 1.06 1228 0.40 MO 1747 0.95		<b>9</b> 0017 0.93 0516 0.57 TU 1104 0.96 1843 0.20		<b>17</b> 0111 0.30 0715 1.03 WE 1344 0.29 1939 0.96		<b>25</b> 0104 0.87 0609 0.61 TH 1155 0.87 1925 0.26	
<b>2</b> 0030 0.21 0648 1.06 TU 1310 0.35 1844 0.97		<b>10</b> 0130 0.93 0644 0.60 WE 1208 0.92 1950 0.20		<b>18</b> 0144 0.34 0745 1.02 TH 1416 0.27 2018 0.97		<b>26</b> 0222 0.89 0749 0.61 FR 1301 0.85 2041 0.25	
<b>3</b> 0110 0.25 0724 1.06 WE 1350 0.31 1936 0.99		<b>11</b> 0243 0.95 0843 0.58 TH 1319 0.90 2058 0.20		<b>19</b> 0212 0.38 0812 1.01 FR 1447 0.26 2056 0.96		<b>27</b> 0324 0.93 0927 0.55 SA 1422 0.86 ○ 2145 0.24	
<b>4</b> 0145 0.30 0758 1.06 TH 1430 0.27 2027 1.00		<b>12</b> 0347 0.98 1006 0.51 FR 1430 0.88 ● 2204 0.20		<b>20</b> 0237 0.41 0837 1.00 SA 1520 0.24 ○ 2134 0.95		<b>28</b> 0415 0.97 1026 0.46 SU 1541 0.90 2241 0.23	
<b>5</b> 0218 0.35 0831 1.05 FR 1512 0.24 ● 2117 0.99		<b>13</b> 0443 1.01 1106 0.44 SA 1554 0.88 2303 0.21		<b>21</b> 0304 0.45 0906 0.99 SU 1555 0.23 2214 0.93			
<b>6</b> 0254 0.40 0904 1.04 SA 1556 0.21 2211 0.97		<b>14</b> 0529 1.03 1153 0.38 SU 1717 0.90 2352 0.23		<b>22</b> 0339 0.49 0940 0.96 MO 1634 0.23 2259 0.91			
<b>7</b> 0334 0.46 0939 1.02 SU 1645 0.20 2311 0.95		<b>15</b> 0608 1.03 1234 0.33 MO 1812 0.93		<b>23</b> 0420 0.54 1017 0.93 TU 1720 0.24 2353 0.88			
<b>8</b> 0419 0.52 1016 0.99 MO 1741 0.20		<b>16</b> 0034 0.26 0644 1.03 TU 1310 0.30 1857 0.95		<b>24</b> 0509 0.58 1101 0.90 WE 1815 0.25			

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# GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## MARCH - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0459 1.00 1116 0.39 MO 1650 0.95 2330 0.25		<b>9</b> 0411 0.53 0957 0.97 TU 1715 0.22 2353 0.94		<b>17</b> 0018 0.34 0610 0.99 WE 1239 0.27 1840 1.02		<b>25</b> 0442 0.57 1030 0.90 TH 1728 0.29	
<b>2</b> 0540 1.03 1202 0.32 TU 1749 1.00		<b>10</b> 0518 0.56 1053 0.92 WE 1815 0.25		<b>18</b> 0053 0.37 0638 1.00 TH 1309 0.26 1917 1.04		<b>26</b> 0005 0.91 0539 0.58 FR 1124 0.87 1834 0.33	
<b>3</b> 0015 0.28 0617 1.04 WE 1246 0.26 1842 1.05		<b>11</b> 0058 0.93 0645 0.56 TH 1207 0.88 1923 0.27		<b>19</b> 0122 0.40 0702 1.00 FR 1338 0.25 1952 1.04		<b>27</b> 0116 0.90 0713 0.57 SA 1239 0.86 2002 0.35	
<b>4</b> 0057 0.32 0654 1.05 TH 1328 0.22 1930 1.07		<b>12</b> 0207 0.93 0822 0.53 FR 1327 0.86 2038 0.28		<b>20</b> 0145 0.43 0728 1.01 SA 1408 0.24 2026 1.04		<b>28</b> 0227 0.92 0847 0.49 SU 1416 0.88 2115 0.35	
<b>5</b> 0132 0.36 0728 1.05 FR 1409 0.20 2018 1.07		<b>13</b> 0315 0.94 0943 0.45 SA 1458 0.86 ● 2150 0.29		<b>21</b> 0208 0.45 0758 1.01 SU 1440 0.23 2100 1.02		<b>29</b> 0325 0.95 0950 0.40 MO 1539 0.95 ○ 2215 0.35	
<b>6</b> 0205 0.41 0802 1.05 SA 1449 0.18 ● 2107 1.05		<b>14</b> 0412 0.97 1041 0.38 SU 1619 0.90 2250 0.29		<b>22</b> 0238 0.47 0831 1.00 MO 1515 0.23 ○ 2137 1.00		<b>30</b> 0415 0.99 1043 0.32 TU 1645 1.03 2309 0.37	
<b>7</b> 0241 0.45 0837 1.04 SU 1533 0.19 2158 1.02		<b>15</b> 0458 0.99 1127 0.32 MO 1715 0.95 2338 0.31		<b>23</b> 0315 0.50 0908 0.97 TU 1555 0.24 2219 0.97		<b>31</b> 0459 1.01 1132 0.25 WE 1740 1.09 2358 0.40	
<b>8</b> 0321 0.49 0915 1.01 MO 1621 0.20 2252 0.98		<b>16</b> 0536 0.99 1205 0.29 TU 1800 0.99		<b>24</b> 0355 0.54 0946 0.94 WE 1638 0.26 2307 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

## APRIL - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0539 1.03 1218 0.21 TH 1830 1.14		<b>9</b> 0022 0.97 0637 0.52 FR 1218 0.87 1853 0.38		<b>17</b> 0059 0.50 0613 1.01 SA 1259 0.25 1926 1.12		<b>25</b> 0020 0.97 0648 0.51 SU 1234 0.90 1911 0.47	
<b>2</b> 0042 0.43 0616 1.05 FR 1301 0.18 1918 1.15		<b>10</b> 0125 0.95 0759 0.48 SA 1341 0.87 2015 0.41		<b>18</b> 0118 0.51 0645 1.03 SU 1330 0.25 1958 1.11		<b>26</b> 0123 0.98 0809 0.43 MO 1411 0.95 2039 0.49	
<b>3</b> 0121 0.46 0653 1.06 SA 1344 0.18 2005 1.14		<b>11</b> 0230 0.95 0911 0.41 SU 1504 0.91 2131 0.41		<b>19</b> 0142 0.52 0722 1.03 MO 1405 0.25 2030 1.09		<b>27</b> 0223 0.99 0913 0.34 TU 1528 1.04 ○ 2145 0.51	
<b>4</b> 0159 0.48 0731 1.06 SU 1426 0.19 ● 2052 1.11		<b>12</b> 0330 0.96 1006 0.35 MO 1608 0.97 ● 2230 0.42		<b>20</b> 0215 0.53 0800 1.01 TU 1443 0.26 ● 2108 1.07		<b>28</b> 0318 1.01 1008 0.27 WE 1630 1.12 2245 0.52	
<b>5</b> 0240 0.50 0814 1.04 MO 1511 0.21 2141 1.08		<b>13</b> 0418 0.97 1050 0.30 TU 1658 1.03 2317 0.43		<b>21</b> 0253 0.55 0839 0.98 WE 1521 0.28 2148 1.04		<b>29</b> 0406 1.03 1100 0.22 TH 1726 1.18 2339 0.54	
<b>6</b> 0328 0.52 0900 1.00 TU 1558 0.24 2231 1.03		<b>14</b> 0455 0.97 1128 0.28 WE 1741 1.08 2358 0.45		<b>22</b> 0335 0.56 0920 0.95 TH 1601 0.31 2232 1.01		<b>30</b> 0449 1.05 1148 0.20 FR 1815 1.21	
<b>7</b> 0423 0.53 0953 0.96 WE 1648 0.29 2325 1.00		<b>15</b> 0524 0.98 1200 0.27 TH 1818 1.11		<b>23</b> 0424 0.57 1006 0.93 FR 1645 0.36 2323 0.99			
<b>8</b> 0525 0.54 1100 0.90 TH 1745 0.33		<b>16</b> 0032 0.47 0547 0.99 FR 1230 0.26 1853 1.12		<b>24</b> 0525 0.55 1107 0.90 SA 1741 0.41			

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# GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0029 0.55 0531 1.07 SA 1235 0.19 1903 1.21		<b>9</b> 0039 1.00 0727 0.44 SU 1334 0.92 1945 0.55		<b>17</b> 0056 0.59 0609 1.05 MO 1300 0.28 1932 1.16		<b>25</b> 0025 1.05 0732 0.37 TU 1357 1.02 1947 0.63	
<b>2</b> 0114 0.55 0615 1.08 SU 1319 0.21 1950 1.20		<b>10</b> 0135 0.98 0831 0.39 MO 1447 0.97 2104 0.56		<b>18</b> 0124 0.59 0650 1.04 TU 1337 0.29 2007 1.15		<b>26</b> 0118 1.05 0836 0.30 WE 1512 1.10 ○ 2110 0.65	
<b>3</b> 0157 0.55 0704 1.08 MO 1403 0.23 2035 1.17		<b>11</b> 0231 0.96 0924 0.34 TU 1546 1.05 2203 0.56		<b>19</b> 0200 0.59 0732 1.03 WE 1415 0.30 2044 1.13		<b>27</b> 0212 1.05 0935 0.25 TH 1615 1.17 2220 0.65	
<b>4</b> 0242 0.54 0757 1.05 TU 1448 0.27 ● 2121 1.14		<b>12</b> 0318 0.96 1007 0.31 WE 1635 1.11 ● 2251 0.56		<b>20</b> 0240 0.58 0815 1.00 TH 1452 0.33 ● 2122 1.11		<b>28</b> 0303 1.07 1030 0.22 FR 1711 1.21 2322 0.64	
<b>5</b> 0329 0.53 0854 1.01 WE 1534 0.31 2208 1.10		<b>13</b> 0351 0.97 1045 0.29 TH 1717 1.15 2332 0.57		<b>21</b> 0325 0.57 0901 0.98 FR 1531 0.37 2203 1.09		<b>29</b> 0354 1.08 1123 0.22 SA 1801 1.24	
<b>6</b> 0420 0.52 0957 0.96 TH 1622 0.37 2256 1.07		<b>14</b> 0417 0.99 1118 0.28 FR 1755 1.17		<b>22</b> 0416 0.55 0955 0.96 SA 1613 0.43 2247 1.07		<b>30</b> 0016 0.62 0447 1.09 SU 1213 0.23 1848 1.24	
<b>7</b> 0515 0.51 1104 0.92 FR 1715 0.44 2346 1.03		<b>15</b> 0007 0.58 0449 1.02 SA 1151 0.27 1830 1.18		<b>23</b> 0515 0.51 1103 0.95 SU 1703 0.50 2334 1.06		<b>31</b> 0104 0.59 0545 1.09 MO 1259 0.25 1933 1.23	
<b>8</b> 0617 0.49 1216 0.90 SA 1817 0.50		<b>16</b> 0034 0.59 0528 1.04 SU 1224 0.27 1901 1.17		<b>24</b> 0623 0.45 1230 0.97 MO 1812 0.58			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0148 0.56 0645 1.08 TU 1344 0.28 2016 1.21		<b>9</b> 0101 0.99 0835 0.35 WE 1518 1.07 2130 0.68		<b>17</b> 0155 0.59 0713 1.03 TH 1353 0.34 2023 1.16		<b>25</b> 0121 1.08 0907 0.24 FR 1600 1.16 ○ 2158 0.71	
<b>2</b> 0232 0.54 0749 1.05 WE 1427 0.32 ● 2100 1.18		<b>10</b> 0142 0.98 0920 0.32 TH 1609 1.13 ● 2221 0.67		<b>18</b> 0235 0.57 0801 1.02 FR 1430 0.38 ● 2059 1.15		<b>26</b> 0221 1.08 1006 0.23 SA 1656 1.19 2308 0.67	
<b>3</b> 0317 0.51 0852 1.01 TH 1511 0.38 2142 1.15		<b>11</b> 0230 0.99 1001 0.30 FR 1653 1.17 2303 0.66		<b>19</b> 0319 0.53 0855 1.00 SA 1508 0.43 2136 1.14		<b>27</b> 0320 1.08 1102 0.23 SU 1746 1.21	
<b>4</b> 0405 0.49 0952 0.97 FR 1555 0.45 2224 1.12		<b>12</b> 0319 1.01 1041 0.28 SA 1731 1.19 2341 0.65		<b>20</b> 0406 0.49 0954 1.00 SU 1548 0.49 2214 1.12		<b>28</b> 0003 0.62 0421 1.08 MO 1155 0.25 1832 1.22	
<b>5</b> 0455 0.48 1053 0.95 SA 1641 0.52 2306 1.08		<b>13</b> 0407 1.03 1120 0.28 SU 1807 1.19		<b>21</b> 0458 0.44 1100 0.99 MO 1635 0.57 2254 1.11		<b>29</b> 0051 0.57 0529 1.07 TU 1242 0.28 1915 1.22	
<b>6</b> 0548 0.45 1159 0.94 SU 1731 0.60 2347 1.04		<b>14</b> 0013 0.64 0453 1.05 MO 1200 0.28 1841 1.19		<b>22</b> 0557 0.38 1215 1.01 TU 1731 0.64 2337 1.10		<b>30</b> 0134 0.53 0643 1.05 WE 1326 0.31 1954 1.21	
<b>7</b> 0646 0.42 1309 0.96 MO 1850 0.66		<b>15</b> 0043 0.63 0539 1.05 TU 1238 0.30 1914 1.18		<b>23</b> 0700 0.32 1338 1.05 WE 1846 0.71			
<b>8</b> 0026 1.01 0744 0.39 TU 1419 1.01 2026 0.68		<b>16</b> 0116 0.61 0626 1.04 WE 1316 0.32 1947 1.17		<b>24</b> 0026 1.09 0805 0.27 TH 1454 1.10 2027 0.73			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0217 0.49 0747 1.03 TH 1407 0.36 2033 1.19		<b>9</b> 0048 0.99 0832 0.31 FR 1539 1.08 2141 0.73		<b>17</b> 0225 0.48 0801 1.03 SA 1412 0.40 ● 2033 1.15		<b>25</b> 0203 1.04 0948 0.23 SU 1639 1.13 2253 0.63	
<b>2</b> 0300 0.46 0843 1.01 FR 1448 0.42 ● 2112 1.16		<b>10</b> 0145 0.99 0923 0.29 SA 1626 1.12 ● 2230 0.70		<b>18</b> 0305 0.44 0855 1.03 SU 1447 0.46 2107 1.14		<b>26</b> 0308 1.03 1048 0.24 MO 1728 1.15 2348 0.56	
<b>3</b> 0342 0.44 0936 0.99 SA 1527 0.49 2148 1.13		<b>11</b> 0243 1.00 1013 0.27 SU 1707 1.15 2313 0.66		<b>19</b> 0348 0.39 0949 1.02 MO 1526 0.52 2141 1.13		<b>27</b> 0418 1.02 1142 0.26 TU 1812 1.16	
<b>4</b> 0426 0.43 1030 0.97 SU 1603 0.56 2221 1.09		<b>12</b> 0337 1.01 1059 0.27 MO 1745 1.16 2352 0.62		<b>20</b> 0436 0.35 1049 1.01 TU 1609 0.59 2216 1.12		<b>28</b> 0034 0.50 0543 1.02 WE 1229 0.29 1851 1.17	
<b>5</b> 0511 0.41 1126 0.96 MO 1636 0.63 2250 1.06		<b>13</b> 0430 1.02 1143 0.28 TU 1820 1.17		<b>21</b> 0530 0.32 1158 1.00 WE 1700 0.66 2258 1.10		<b>29</b> 0116 0.45 0646 1.02 TH 1310 0.33 1929 1.16	
<b>6</b> 0558 0.39 1229 0.97 TU 1712 0.69 2318 1.03		<b>14</b> 0030 0.59 0522 1.02 WE 1224 0.30 1854 1.17		<b>22</b> 0632 0.29 1317 1.02 TH 1804 0.71 2350 1.07		<b>30</b> 0156 0.41 0739 1.02 FR 1349 0.38 2004 1.15	
<b>7</b> 0647 0.37 1338 0.99 WE 1811 0.74 2358 1.01		<b>15</b> 0108 0.56 0615 1.03 TH 1302 0.32 1928 1.17		<b>23</b> 0740 0.26 1434 1.05 FR 1946 0.73		<b>31</b> 0234 0.39 0827 1.02 SA 1425 0.43 ● 2037 1.13	
<b>8</b> 0740 0.34 1444 1.04 TH 2034 0.75		<b>16</b> 0146 0.52 0709 1.03 FR 1338 0.36 2000 1.16		<b>24</b> 0055 1.05 0845 0.24 SA 1541 1.09 ○ 2140 0.69			

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# GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## AUGUST - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0312 0.38 0913 1.00 SU 1458 0.49 2107 1.10		<b>9</b> 0214 0.95 0948 0.27 MO 1636 1.07 2241 0.61		<b>17</b> 0326 0.30 0939 1.03 TU 1504 0.52 2110 1.10		<b>25</b> 0450 0.98 1131 0.27 WE 1746 1.09	
<b>2</b> 0349 0.37 0958 0.99 MO 1526 0.54 2133 1.08		<b>10</b> 0318 0.96 1041 0.26 TU 1715 1.10 2326 0.55		<b>18</b> 0412 0.28 1034 1.00 WE 1545 0.58 2146 1.08		<b>26</b> 0014 0.39 0550 1.00 TH 1216 0.30 1824 1.09	
<b>3</b> 0427 0.35 1045 0.97 TU 1552 0.60 2200 1.05		<b>11</b> 0423 0.98 1128 0.27 WE 1752 1.12		<b>19</b> 0506 0.27 1140 0.97 TH 1635 0.63 2230 1.05		<b>27</b> 0052 0.35 0639 1.02 FR 1256 0.34 1858 1.09	
<b>4</b> 0506 0.34 1136 0.95 WE 1629 0.65 2234 1.02		<b>12</b> 0007 0.49 0525 1.01 TH 1210 0.29 1828 1.13		<b>20</b> 0608 0.27 1253 0.96 FR 1744 0.67 2331 1.01		<b>28</b> 0128 0.33 0722 1.03 SA 1330 0.39 1929 1.08	
<b>5</b> 0551 0.33 1238 0.94 TH 1718 0.69 2317 0.99		<b>13</b> 0047 0.44 0620 1.03 FR 1248 0.33 1901 1.13		<b>21</b> 0716 0.26 1407 0.98 SA 1940 0.67		<b>29</b> 0201 0.32 0803 1.03 SU 1401 0.43 1957 1.07	
<b>6</b> 0645 0.32 1351 0.96 FR 1821 0.73		<b>14</b> 0127 0.40 0712 1.05 SA 1322 0.37 1933 1.13		<b>22</b> 0048 0.98 0826 0.25 SU 1515 1.01 ○ 2123 0.61		<b>30</b> 0234 0.31 0843 1.02 MO 1428 0.47 ● 2023 1.06	
<b>7</b> 0010 0.96 0746 0.31 SA 1500 0.99 2014 0.73		<b>15</b> 0205 0.36 0800 1.06 SU 1354 0.42 2004 1.13		<b>23</b> 0204 0.97 0934 0.25 MO 1615 1.04 2235 0.52		<b>31</b> 0307 0.30 0922 1.00 TU 1451 0.51 2050 1.05	
<b>8</b> 0109 0.95 0850 0.29 SU 1553 1.03 ● 2149 0.68		<b>16</b> 0245 0.33 0848 1.05 MO 1427 0.47 ● 2036 1.12		<b>24</b> 0324 0.96 1037 0.26 TU 1704 1.07 2329 0.45			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0341 0.30 1001 0.97 WE 1521 0.54 2122 1.02		<b>9</b> 0429 0.98 1108 0.29 TH 1716 1.05 2337 0.37		<b>17</b> 0444 0.26 1119 0.95 FR 1633 0.58 2220 0.98		<b>25</b> 0020 0.28 0622 1.06 SA 1239 0.37 1820 1.01	
<b>2</b> 0419 0.29 1044 0.94 TH 1600 0.58 2200 0.99		<b>10</b> 0526 1.03 1152 0.32 FR 1753 1.06		<b>18</b> 0544 0.27 1224 0.93 SA 1800 0.59 2337 0.93		<b>26</b> 0052 0.27 0700 1.06 SU 1310 0.41 1845 1.02	
<b>3</b> 0502 0.29 1134 0.91 FR 1645 0.62 2243 0.95		<b>11</b> 0020 0.32 0616 1.07 SA 1231 0.36 1828 1.07		<b>19</b> 0652 0.29 1331 0.93 SU 1934 0.56		<b>27</b> 0123 0.26 0737 1.06 MO 1335 0.44 1911 1.02	
<b>4</b> 0554 0.30 1240 0.89 SA 1741 0.65 2334 0.91		<b>12</b> 0100 0.28 0704 1.09 SU 1305 0.40 1900 1.08		<b>20</b> 0100 0.91 0806 0.30 MO 1440 0.95 2102 0.49		<b>28</b> 0153 0.26 0812 1.04 TU 1357 0.46 1940 1.02	
<b>5</b> 0700 0.31 1359 0.91 SU 1901 0.66		<b>13</b> 0140 0.25 0750 1.09 MO 1336 0.44 1932 1.08		<b>21</b> 0226 0.91 0921 0.30 TU 1542 0.97 ○ 2211 0.41		<b>29</b> 0225 0.25 0846 1.02 WE 1422 0.48 ● 2014 1.01	
<b>6</b> 0036 0.89 0817 0.30 MO 1503 0.94 2103 0.60		<b>14</b> 0220 0.24 0837 1.07 TU 1409 0.48 ● 2007 1.08		<b>22</b> 0349 0.95 1026 0.30 WE 1632 1.00 2301 0.34		<b>30</b> 0300 0.25 0922 0.99 TH 1456 0.51 2049 0.98	
<b>7</b> 0155 0.89 0924 0.29 TU 1554 0.98 ● 2203 0.52		<b>15</b> 0302 0.24 0927 1.03 WE 1447 0.52 2044 1.06		<b>23</b> 0451 0.99 1118 0.31 TH 1715 1.01 2344 0.30			
<b>8</b> 0318 0.93 1019 0.28 WE 1637 1.02 2252 0.44		<b>16</b> 0350 0.24 1020 0.98 TH 1532 0.55 2126 1.02		<b>24</b> 0540 1.03 1201 0.34 FR 1750 1.01			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0337 0.26 FR 1535 0.54 2129 0.95		<b>9</b> 0514 1.08 1130 0.39 SA 1710 1.01 2348 0.21		<b>17</b> 0518 0.31 1153 0.94 SU 1802 0.49 2353 0.88		<b>25</b> 0013 0.23 0637 1.10 MO 1247 0.45 1752 0.97	
<b>2</b> 0419 0.28 1047 0.92 SA 1619 0.56 2212 0.91		<b>10</b> 0603 1.12 1214 0.42 SU 1746 1.03		<b>18</b> 0625 0.35 1252 0.92 MO 1919 0.45		<b>26</b> 0042 0.23 0711 1.09 TU 1309 0.47 1825 0.99	
<b>3</b> 0507 0.31 1141 0.89 SU 1714 0.58 2303 0.87		<b>11</b> 0032 0.19 0651 1.13 MO 1252 0.45 1822 1.04		<b>19</b> 0114 0.88 0745 0.38 TU 1356 0.92 2035 0.38		<b>27</b> 0114 0.23 0742 1.07 WE 1330 0.48 1902 0.99	
<b>4</b> 0607 0.34 1246 0.88 MO 1834 0.56		<b>12</b> 0115 0.18 0737 1.12 TU 1327 0.48 1900 1.05		<b>20</b> 0234 0.91 0904 0.38 WE 1459 0.92 2137 0.31		<b>28</b> 0147 0.23 0815 1.04 TH 1359 0.48 1941 0.98	
<b>5</b> 0013 0.86 0733 0.36 TU 1357 0.90 2017 0.50		<b>13</b> 0157 0.19 0825 1.08 WE 1405 0.49 ● 1942 1.04		<b>21</b> 0343 0.98 1008 0.38 TH 1552 0.93 ○ 2227 0.27		<b>29</b> 0224 0.24 0850 1.01 FR 1435 0.50 ● 2021 0.95	
<b>6</b> 0151 0.88 0851 0.36 WE 1457 0.93 ● 2122 0.41		<b>14</b> 0242 0.21 0913 1.04 TH 1453 0.51 2029 1.01		<b>22</b> 0436 1.03 1059 0.39 FR 1633 0.93 2307 0.24		<b>30</b> 0302 0.26 0929 0.98 SA 1517 0.51 2102 0.92	
<b>7</b> 0316 0.94 0951 0.36 TH 1546 0.96 2215 0.32		<b>15</b> 0330 0.24 1003 1.00 FR 1551 0.52 2124 0.96		<b>23</b> 0521 1.07 1141 0.40 SA 1704 0.94 2342 0.23		<b>31</b> 0343 0.29 1012 0.95 SU 1604 0.51 2147 0.88	
<b>8</b> 0420 1.02 1043 0.37 FR 1630 0.98 2303 0.26		<b>16</b> 0421 0.27 1057 0.96 SA 1654 0.51 2233 0.91		<b>24</b> 0601 1.10 1217 0.43 SU 1728 0.95			

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# GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## NOVEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0425 0.33 1058 0.93 MO 1701 0.50 2245 0.86		<b>9</b> 0006 0.15 0638 1.15 TU 1245 0.50 1745 1.02		<b>17</b> 0106 0.89 0715 0.48 WE 1305 0.91 2000 0.31		<b>25</b> 0043 0.21 0718 1.08 TH 1314 0.50 1831 0.96	
<b>2</b> 0516 0.38 1150 0.91 TU 1815 0.46		<b>10</b> 0052 0.16 0725 1.13 WE 1330 0.49 1834 1.03		<b>18</b> 0220 0.94 0839 0.49 TH 1400 0.89 2057 0.26		<b>26</b> 0120 0.22 0750 1.06 FR 1346 0.49 1914 0.95	
<b>3</b> 0004 0.86 0632 0.44 WE 1247 0.91 1935 0.39		<b>11</b> 0138 0.18 0811 1.10 TH 1416 0.48 ● 1928 1.00		<b>19</b> 0323 1.00 0942 0.48 FR 1450 0.89 ○ 2145 0.23		<b>27</b> 0157 0.24 0826 1.04 SA 1426 0.48 ● 1958 0.93	
<b>4</b> 0143 0.90 0806 0.46 TH 1347 0.92 2041 0.30		<b>12</b> 0224 0.21 0857 1.07 FR 1504 0.46 2028 0.97		<b>20</b> 0415 1.06 1033 0.48 SA 1526 0.89 2225 0.21		<b>28</b> 0234 0.27 0902 1.02 SU 1509 0.47 2044 0.90	
<b>5</b> 0301 0.98 0915 0.47 FR 1443 0.94 ● 2137 0.23		<b>13</b> 0310 0.25 0944 1.03 SA 1556 0.45 2133 0.92		<b>21</b> 0500 1.10 1117 0.48 SU 1552 0.91 2300 0.21		<b>29</b> 0313 0.31 0942 1.00 MO 1557 0.45 2136 0.88	
<b>6</b> 0403 1.06 1015 0.48 SA 1531 0.96 2229 0.18		<b>14</b> 0359 0.31 1031 1.00 SU 1650 0.42 2242 0.89		<b>22</b> 0539 1.11 1155 0.49 MO 1626 0.93 2334 0.20		<b>30</b> 0353 0.36 1022 0.98 TU 1650 0.41 2239 0.87	
<b>7</b> 0459 1.12 1108 0.49 SU 1616 0.98 2318 0.15		<b>15</b> 0451 0.37 1120 0.97 MO 1749 0.40 2352 0.87		<b>23</b> 0615 1.11 1225 0.50 TU 1706 0.95			
<b>8</b> 0549 1.15 1159 0.50 MO 1700 1.01		<b>16</b> 0552 0.43 1212 0.94 TU 1855 0.36		<b>24</b> 0008 0.20 0647 1.10 WE 1249 0.50 1748 0.97			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0439 0.42 1105 0.96 WE 1751 0.36 2356 0.88		<b>9</b> 0035 0.15 0710 1.13 TH 1326 0.47 1821 0.99		<b>17</b> 0151 0.93 0757 0.58 FR 1241 0.89 2010 0.24		<b>25</b> 0101 0.22 0732 1.06 SA 1343 0.46 1858 0.93	
<b>2</b> 0538 0.50 1151 0.95 TH 1857 0.29		<b>10</b> 0122 0.18 0754 1.11 FR 1412 0.43 1927 0.97		<b>18</b> 0255 0.98 0907 0.58 SA 1319 0.88 2058 0.22		<b>26</b> 0138 0.25 0805 1.05 SU 1421 0.44 1947 0.92	
<b>3</b> 0122 0.93 0700 0.55 FR 1242 0.95 2001 0.23		<b>11</b> 0207 0.22 0837 1.09 SA 1457 0.39 ● 2031 0.95		<b>19</b> 0349 1.03 1003 0.56 SU 1406 0.88 ○ 2142 0.20		<b>27</b> 0215 0.28 0839 1.04 MO 1501 0.40 ● 2039 0.91	
<b>4</b> 0241 1.00 0830 0.58 SA 1335 0.95 ● 2102 0.17		<b>12</b> 0251 0.28 0919 1.06 SU 1544 0.36 2132 0.92		<b>20</b> 0436 1.07 1050 0.55 MO 1456 0.90 2224 0.19		<b>28</b> 0250 0.33 0914 1.03 TU 1544 0.36 2133 0.91	
<b>5</b> 0346 1.06 0943 0.58 SU 1430 0.96 2159 0.14		<b>13</b> 0336 0.34 1002 1.03 MO 1632 0.34 2232 0.90		<b>21</b> 0517 1.08 1130 0.53 TU 1545 0.91 2305 0.19		<b>29</b> 0330 0.38 0949 1.02 WE 1630 0.32 2231 0.91	
<b>6</b> 0444 1.11 1048 0.56 MO 1526 0.98 2254 0.13		<b>14</b> 0423 0.41 1045 0.99 TU 1724 0.32 2335 0.89		<b>22</b> 0555 1.08 1205 0.52 WE 1634 0.93 2345 0.19		<b>30</b> 0412 0.46 1026 1.00 TH 1722 0.27 2338 0.91	
<b>7</b> 0536 1.13 1147 0.54 TU 1621 1.00 2346 0.13		<b>15</b> 0515 0.49 1126 0.95 WE 1819 0.29		<b>23</b> 0628 1.08 1236 0.50 TH 1721 0.93		<b>31</b> 0502 0.53 1105 0.99 FR 1821 0.23	
<b>8</b> 0625 1.14 1239 0.51 WE 1718 1.00		<b>16</b> 0042 0.90 0624 0.55 TH 1205 0.92 1916 0.27		<b>24</b> 0024 0.21 0700 1.07 FR 1308 0.48 1809 0.93			

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# Lakes Entrance (Outer)

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

Location	Time diff	Rise of tide	
	(earlier) later	Springs	Neaps
	HM	metres	metres
<i>Gabo Island</i>	(0 43)	1.1	0.1
<i>Eden (NSW)</i>	(0 34)	1.8	0.2
<i>Point Hicks</i>	(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 2021

LAKES ENTRANCE							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
Mar	21	1749	0.74	May	3	1530	0.92
		1826	0.74			1608	0.92
Apr	4	1657	0.83	Sep	29	0525	0.78
		1732	0.83			0608	0.78
	5	1654	0.87	Oct	28	0438	0.79
		1724	0.87			0543	0.80
	19	1812	0.82				
		1915	0.81				

# 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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0239 0.61 0956 1.20 FR 1634 0.26 2233 0.87		<b>9</b> 0509 1.11 1145 0.40 SA 1742 0.86 2258 0.44		<b>17</b> 0505 0.62 1120 1.12 SU 1800 0.32		<b>25</b> 0623 1.07 1309 0.41 MO 1849 0.82 2347 0.55	
<b>2</b> 0331 0.63 1029 1.19 SA 1717 0.26 2326 0.88		<b>10</b> 0607 1.17 1251 0.29 SU 1842 0.87 2347 0.46		<b>18</b> 0028 0.87 0600 0.66 MO 1147 1.05 1840 0.39		<b>26</b> 0703 1.12 1341 0.33 TU 1926 0.84	
<b>3</b> 0435 0.65 1100 1.17 SU 1802 0.27		<b>11</b> 0702 1.23 1345 0.20 MO 1934 0.88		<b>19</b> 0113 0.88 0654 0.68 TU 1218 0.97 1920 0.45		<b>27</b> 0029 0.54 0743 1.16 WE 1415 0.27 2002 0.87	
<b>4</b> 0021 0.89 0543 0.66 MO 1134 1.14 1849 0.30		<b>12</b> 0037 0.48 0753 1.27 TU 1433 0.14 2023 0.88		<b>20</b> 0157 0.89 0754 0.70 WE 1303 0.89 2001 0.50		<b>28</b> 0110 0.53 0820 1.20 TH 1451 0.22 2041 0.89	
<b>5</b> 0117 0.92 0647 0.65 TU 1216 1.08 1937 0.32		<b>13</b> 0127 0.50 0841 1.28 WE 1517 0.12 ● 2112 0.88		<b>21</b> 0245 0.92 0906 0.68 TH 1417 0.82 ○ 2046 0.53		<b>29</b> 0153 0.52 0857 1.22 FR 1530 0.20 ○ 2123 0.91	
<b>6</b> 0212 0.96 0750 0.63 WE 1312 1.01 ● 2026 0.36		<b>14</b> 0219 0.52 0927 1.28 TH 1559 0.14 2200 0.87		<b>22</b> 0344 0.95 1037 0.64 FR 1600 0.78 2134 0.55		<b>30</b> 0239 0.52 0933 1.23 SA 1609 0.19 2209 0.92	
<b>7</b> 0307 1.00 0859 0.58 TH 1434 0.92 2115 0.39		<b>15</b> 0314 0.55 1010 1.24 FR 1640 0.19 2250 0.87		<b>23</b> 0447 0.98 1147 0.56 SA 1717 0.78 2221 0.56		<b>31</b> 0330 0.52 1008 1.21 SU 1651 0.20 2300 0.94	
<b>8</b> 0407 1.05 1020 0.51 FR 1623 0.87 2206 0.41		<b>16</b> 0410 0.59 1047 1.19 SA 1720 0.25 2340 0.86		<b>24</b> 0539 1.03 1234 0.48 SU 1809 0.79 2305 0.56			

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# LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## FEBRUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0430 0.53 1043 1.18 MO 1733 0.24 2351 0.96		<b>9</b> 0651 1.21 1343 0.19 TU 1924 0.88		<b>17</b> 0001 0.92 0623 0.62 WE 1144 0.91 1823 0.51		<b>25</b> 0014 0.53 0711 1.16 TH 1345 0.24 1939 0.91	
<b>2</b> 0533 0.54 1122 1.11 TU 1817 0.30		<b>10</b> 0029 0.50 0740 1.23 WE 1422 0.15 2008 0.90		<b>18</b> 0039 0.93 0719 0.64 TH 1233 0.84 1859 0.56		<b>26</b> 0059 0.49 0747 1.19 FR 1422 0.19 2018 0.95	
<b>3</b> 0044 0.98 0637 0.54 WE 1209 1.02 1904 0.37		<b>11</b> 0119 0.48 0825 1.24 TH 1458 0.16 2051 0.91		<b>19</b> 0124 0.93 0821 0.64 FR 1351 0.78 1945 0.61		<b>27</b> 0144 0.45 0825 1.21 SA 1500 0.17 ○ 2100 0.98	
<b>4</b> 0138 1.00 0742 0.53 TH 1315 0.92 1953 0.44		<b>12</b> 0209 0.48 0907 1.22 FR 1532 0.18 ● 2133 0.91		<b>20</b> 0223 0.94 0941 0.61 SA 1532 0.75 ● 2042 0.64		<b>28</b> 0232 0.42 0904 1.21 SU 1539 0.18 2145 1.01	
<b>5</b> 0239 1.03 0854 0.51 FR 1459 0.83 ● 2045 0.49		<b>13</b> 0259 0.49 0945 1.17 SA 1607 0.23 2215 0.91		<b>21</b> 0345 0.97 1111 0.55 SU 1700 0.76 2141 0.64			
<b>6</b> 0349 1.06 1028 0.45 SA 1635 0.80 2142 0.52		<b>14</b> 0348 0.51 1018 1.12 SU 1643 0.30 2253 0.91		<b>22</b> 0502 1.01 1201 0.47 MO 1751 0.80 2236 0.62			
<b>7</b> 0459 1.11 1156 0.35 SU 1744 0.82 2240 0.53		<b>15</b> 0439 0.55 1045 1.05 MO 1716 0.37 2328 0.91		<b>23</b> 0552 1.06 1235 0.39 TU 1829 0.83 2327 0.58			
<b>8</b> 0558 1.16 1256 0.25 MO 1837 0.85 2336 0.52		<b>16</b> 0530 0.59 1111 0.98 TU 1750 0.44		<b>24</b> 0633 1.11 1309 0.31 WE 1902 0.87			

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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

## MARCH - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0326 0.41 0946 1.18 MO 1619 0.22 2232 1.04		<b>9</b> 0544 1.14 1245 0.26 TU 1829 0.88 2331 0.57		<b>17</b> 0506 0.54 1050 0.92 WE 1644 0.53 2256 1.01		<b>25</b> 0547 1.11 1229 0.30 TH 1836 0.94 2356 0.55	
<b>2</b> 0425 0.41 1033 1.12 TU 1701 0.29 2321 1.06		<b>10</b> 0634 1.16 1325 0.23 WE 1910 0.92		<b>18</b> 0556 0.56 1133 0.87 TH 1635 0.59 2328 1.01		<b>26</b> 0625 1.15 1308 0.24 FR 1914 0.99	
<b>3</b> 0528 0.42 1125 1.04 WE 1745 0.38		<b>11</b> 0026 0.52 0720 1.17 TH 1358 0.22 1950 0.94		<b>19</b> 0647 0.58 1229 0.82 FR 1646 0.64		<b>27</b> 0045 0.48 0703 1.18 SA 1346 0.21 1954 1.04	
<b>4</b> 0011 1.07 0630 0.42 TH 1227 0.94 1833 0.48		<b>12</b> 0115 0.48 0802 1.15 FR 1428 0.24 2029 0.96		<b>20</b> 0010 1.00 0743 0.58 SA 1337 0.78 1711 0.69		<b>28</b> 0133 0.41 0746 1.18 SU 1424 0.21 2037 1.09	
<b>5</b> 0105 1.07 0737 0.43 FR 1345 0.85 1925 0.56		<b>13</b> 0200 0.46 0841 1.12 SA 1458 0.28 ● 2105 0.97		<b>21</b> 0108 0.99 0843 0.57 SU 1506 0.77 * 1955 0.73		<b>29</b> 0225 0.36 0836 1.16 MO 1502 0.25 ○ 2122 1.14	
<b>6</b> 0212 1.06 0854 0.42 SA 1520 0.80 ● 2022 0.62		<b>14</b> 0246 0.46 0915 1.08 SU 1529 0.33 2138 0.98		<b>22</b> 0227 0.98 0954 0.53 MO 1645 0.80 ● 2102 0.73		<b>30</b> 0320 0.33 0931 1.11 TU 1544 0.32 2208 1.17	
<b>7</b> 0334 1.07 1039 0.38 SU 1645 0.81 2125 0.64		<b>15</b> 0332 0.47 0945 1.03 MO 1559 0.39 2206 0.99		<b>23</b> 0400 1.01 1100 0.46 TU 1730 0.84 2206 0.69		<b>31</b> 0420 0.32 1030 1.05 WE 1627 0.42 2255 1.19	
<b>8</b> 0446 1.11 1154 0.31 MO 1744 0.84 2230 0.62		<b>16</b> 0419 0.50 1015 0.97 TU 1626 0.46 2230 1.00		<b>24</b> 0504 1.06 1147 0.38 WE 1802 0.89 2303 0.63			

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# LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

APRIL - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0521 0.32 1132 0.97 TH 1715 0.52 2344 1.18		<b>9</b> 0023 0.56 0651 1.10 FR 1318 0.34 1929 1.01		<b>17</b> 0618 0.54 1218 0.84 SA 1550 0.72 2332 1.09		<b>25</b> 0030 0.49 0622 1.16 SU 1300 0.29 1926 1.15	
<b>2</b> 0625 0.34 1240 0.90 FR 1807 0.62		<b>10</b> 0109 0.51 0730 1.07 SA 1347 0.37 2004 1.03		<b>18</b> 0709 0.55 1319 0.83 SU 1617 0.77		<b>26</b> 0124 0.40 0717 1.14 MO 1340 0.32 2013 1.21	
<b>3</b> 0039 1.15 0731 0.36 SA 1400 0.85 1904 0.69		<b>11</b> 0153 0.48 0806 1.03 SU 1415 0.41 2037 1.05		<b>19</b> 0022 1.07 0803 0.53 MO 1432 0.83 * 1659 0.81		<b>27</b> 0217 0.33 0818 1.10 TU 1420 0.39 ○ 2100 1.26	
<b>4</b> 0149 1.12 0856 0.37 SU 1533 0.84 * ○ 2005 0.73		<b>12</b> 0236 0.47 0840 1.00 MO 1442 0.46 ● 2104 1.07		<b>20</b> 0126 1.06 0900 0.50 TU 1559 0.86 ● 2026 0.80		<b>28</b> 0315 0.29 0923 1.05 WE 1503 0.47 2147 1.29	
<b>5</b> 0314 1.11 1030 0.35 MO 1819 0.87 * 2113 0.73		<b>13</b> 0318 0.47 0915 0.96 TU 1502 0.51 2128 1.09		<b>21</b> 0240 1.06 1000 0.45 WE 1647 0.91 2131 0.76		<b>29</b> 0413 0.27 1027 1.00 TH 1553 0.57 2235 1.30	
<b>6</b> 0425 1.11 1130 0.33 TU 1737 0.91 2225 0.69		<b>14</b> 0401 0.49 0954 0.92 WE 1507 0.57 2153 1.10		<b>22</b> 0348 1.09 1054 0.39 TH 1723 0.96 2235 0.68		<b>30</b> 0514 0.27 1132 0.95 FR 1648 0.66 2326 1.28	
<b>7</b> 0521 1.12 1215 0.32 WE 1814 0.94 2330 0.63		<b>15</b> 0445 0.51 1038 0.89 TH 1510 0.62 2221 1.11		<b>23</b> 0444 1.13 1140 0.33 FR 1800 1.02 2335 0.59			
<b>8</b> 0609 1.12 1249 0.33 TH 1851 0.98		<b>16</b> 0530 0.53 1125 0.86 FR 1528 0.67 2254 1.10		<b>24</b> 0532 1.15 1221 0.30 SA 1842 1.09			

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

MAY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0615 0.30 1243 0.91 SA 1748 0.74		<b>9</b> 0100 0.57 0653 1.01 SU 1257 0.50 1935 1.10		<b>17</b> 0640 0.52 1254 0.90 MO 1605 0.84 2359 1.16		<b>25</b> 0115 0.40 0707 1.09 TU 1256 0.45 1950 1.31	
<b>2</b> 0021 1.24 0722 0.34 SU 1403 0.90 1848 0.79		<b>10</b> 0143 0.53 0730 0.98 MO 1322 0.54 2005 1.13		<b>18</b> 0730 0.51 1355 0.91 TU 1846 0.86		<b>26</b> 0211 0.32 0811 1.06 WE 1340 0.52 ○ 2041 1.36	
<b>3</b> 0128 1.19 0840 0.37 MO 1714 0.92 * 1949 0.80		<b>11</b> 0223 0.50 0809 0.96 TU 1341 0.58 2034 1.16		<b>19</b> 0047 1.15 0821 0.49 WE 1454 0.95 1955 0.84		<b>27</b> 0307 0.27 0914 1.02 TH 1429 0.60 2131 1.39	
<b>4</b> 0244 1.15 0957 0.40 TU 1755 0.95 ● 2055 0.79		<b>12</b> 0302 0.49 0849 0.94 WE 1352 0.62 ● 2104 1.18		<b>20</b> 0145 1.14 0913 0.45 TH 1545 0.99 ● 2100 0.79		<b>28</b> 0404 0.26 1016 0.99 FR 1525 0.68 2221 1.39	
<b>5</b> 0351 1.12 1049 0.42 WE 1710 0.98 2213 0.75		<b>13</b> 0342 0.49 0933 0.92 TH 1403 0.66 2137 1.20		<b>21</b> 0248 1.14 1002 0.42 FR 1631 1.05 2207 0.72		<b>29</b> 0502 0.27 1122 0.97 SA 1628 0.74 2312 1.36	
<b>6</b> 0446 1.10 1128 0.43 TH 1745 1.01 2323 0.69		<b>14</b> 0423 0.50 1018 0.91 FR 1423 0.71 2210 1.20		<b>22</b> 0354 1.14 1048 0.39 SA 1718 1.11 2315 0.62		<b>30</b> 0600 0.31 1230 0.96 SU 1730 0.79	
<b>7</b> 0532 1.08 1159 0.45 FR 1824 1.04		<b>15</b> 0505 0.51 1106 0.90 SA 1448 0.75 2244 1.19		<b>23</b> 0459 1.14 1131 0.38 SU 1807 1.18		<b>31</b> 0005 1.31 0659 0.36 MO 1340 0.96 1830 0.82	
<b>8</b> 0015 0.62 0615 1.05 SA 1229 0.47 1901 1.07		<b>16</b> 0551 0.52 1158 0.89 SU 1520 0.80 2319 1.18		<b>24</b> 0017 0.51 0602 1.12 MO 1214 0.41 1859 1.25			

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# LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0101 1.24 0758 0.42 TU 1444 0.98 1928 0.83		<b>9</b> 0207 0.52 0745 0.95 WE 1249 0.66 2010 1.23		<b>17</b> 0015 1.21 0745 0.48 TH 1410 1.02 1931 0.83		<b>25</b> 0300 0.26 0900 1.01 FR 1406 0.65 ○ 2116 1.43	
<b>2</b> 0200 1.17 0855 0.47 WE 1536 1.00 ● 2031 0.82		<b>10</b> 0243 0.50 0826 0.95 TH 1313 0.69 ● 2045 1.25		<b>18</b> 0106 1.18 0832 0.47 FR 1500 1.06 ● 2037 0.78		<b>26</b> 0353 0.25 0959 0.99 SA 1505 0.70 2206 1.42	
<b>3</b> 0301 1.12 0943 0.51 TH 1622 1.03 2149 0.80		<b>11</b> 0320 0.48 0908 0.94 FR 1340 0.72 2122 1.27		<b>19</b> 0211 1.14 0919 0.46 SA 1550 1.12 2147 0.71		<b>27</b> 0445 0.28 1100 0.99 SU 1607 0.74 2254 1.38	
<b>4</b> 0358 1.07 1023 0.54 FR 1705 1.06 2307 0.74		<b>12</b> 0359 0.48 0953 0.94 SA 1411 0.75 2158 1.27		<b>20</b> 0330 1.10 1004 0.46 SU 1644 1.18 2303 0.61		<b>28</b> 0534 0.33 1200 0.98 MO 1708 0.77 2341 1.31	
<b>5</b> 0449 1.03 1100 0.56 SA 1746 1.09		<b>13</b> 0440 0.49 1040 0.94 SU 1449 0.79 2230 1.26		<b>21</b> 0452 1.07 1050 0.48 MO 1742 1.25		<b>29</b> 0623 0.40 1258 0.99 TU 1805 0.79	
<b>6</b> 0002 0.68 0537 1.00 SU 1132 0.58 1826 1.13		<b>14</b> 0525 0.49 1130 0.95 MO 1544 0.82 2301 1.25		<b>22</b> 0011 0.50 0602 1.06 TU 1136 0.51 1840 1.31		<b>30</b> 0026 1.23 0710 0.47 WE 1351 1.00 1902 0.81	
<b>7</b> 0048 0.61 0622 0.98 MO 1201 0.60 1902 1.16		<b>15</b> 0611 0.49 1225 0.96 TU 1710 0.84 2335 1.23		<b>23</b> 0111 0.39 0704 1.04 WE 1223 0.55 1934 1.37			
<b>8</b> 0129 0.56 0704 0.96 TU 1226 0.63 1935 1.20		<b>16</b> 0658 0.49 1318 0.98 WE 1826 0.84		<b>24</b> 0207 0.31 0802 1.03 TH 1313 0.60 2026 1.41			

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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0109 1.15 0755 0.53 TH 1440 1.02 2004 0.82		<b>9</b> 0221 0.47 0801 0.96 FR 1300 0.69 2026 1.29		<b>17</b> 0038 1.13 0756 0.50 SA 1425 1.10 ● 2024 0.72		<b>25</b> 0335 0.25 0936 0.99 SU 1449 0.64 2146 1.38	
<b>2</b> 0157 1.07 0839 0.58 FR 1527 1.04 ● 2120 0.81		<b>10</b> 0256 0.45 0842 0.96 SA 1339 0.71 ● 2102 1.30		<b>18</b> 0153 1.06 0843 0.52 SU 1520 1.15 2138 0.66		<b>26</b> 0418 0.29 1030 0.99 MO 1546 0.66 2230 1.32	
<b>3</b> 0300 1.01 0922 0.61 SA 1615 1.07 2245 0.76		<b>11</b> 0334 0.43 0924 0.97 SU 1419 0.72 2137 1.31		<b>19</b> 0337 1.00 0930 0.55 MO 1624 1.20 2302 0.56		<b>27</b> 0500 0.36 1123 0.99 TU 1644 0.69 2308 1.24	
<b>4</b> 0411 0.97 1002 0.63 SU 1704 1.11 2346 0.69		<b>12</b> 0415 0.43 1010 0.97 MO 1504 0.74 2207 1.30		<b>20</b> 0501 0.98 1020 0.57 TU 1730 1.26		<b>28</b> 0543 0.43 1212 0.99 WE 1739 0.73 2340 1.16	
<b>5</b> 0512 0.95 1040 0.65 MO 1749 1.15		<b>13</b> 0457 0.43 1100 0.99 TU 1559 0.76 2235 1.28		<b>21</b> 0015 0.45 0605 0.99 WE 1112 0.59 1829 1.32		<b>29</b> 0624 0.51 1256 1.00 TH 1835 0.76	
<b>6</b> 0033 0.63 0600 0.94 TU 1115 0.66 1830 1.18		<b>14</b> 0540 0.44 1153 1.00 WE 1704 0.77 2305 1.25		<b>22</b> 0113 0.34 0700 1.00 TH 1204 0.60 1922 1.38		<b>30</b> 0011 1.07 0704 0.57 FR 1336 1.01 1935 0.78	
<b>7</b> 0113 0.56 0644 0.94 WE 1148 0.67 1909 1.22		<b>15</b> 0625 0.45 1245 1.03 TH 1812 0.77 2345 1.20		<b>23</b> 0203 0.27 0751 1.00 FR 1258 0.61 2013 1.41		<b>31</b> 0058 0.99 0745 0.63 SA 1416 1.03 ● 2046 0.78	
<b>8</b> 0147 0.51 0723 0.95 TH 1224 0.68 1947 1.26		<b>16</b> 0710 0.47 1334 1.06 FR 1916 0.76		<b>24</b> 0250 0.24 0843 1.00 SA 1352 0.62 ○ 2100 1.41			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0212 0.92 0827 0.66 SU 1506 1.05 2217 0.74		<b>9</b> 0307 0.36 0856 0.98 MO 1415 0.62 2107 1.29		<b>17</b> 0356 0.90 0906 0.63 TU 1618 1.18 2316 0.47		<b>25</b> 0422 0.39 1041 0.99 WE 1620 0.59 2225 1.12	
<b>2</b> 0342 0.89 0911 0.68 MO 1615 1.08 2330 0.67		<b>10</b> 0345 0.35 0942 1.00 TU 1501 0.62 2135 1.28		<b>18</b> 0508 0.91 1002 0.63 WE 1725 1.23		<b>26</b> 0459 0.47 1118 0.99 TH 1713 0.64 2248 1.04	
<b>3</b> 0453 0.88 0957 0.69 TU 1716 1.12		<b>11</b> 0426 0.36 1030 1.02 WE 1555 0.63 2204 1.24		<b>19</b> 0022 0.37 0602 0.94 TH 1100 0.62 1820 1.29		<b>27</b> 0535 0.54 1150 1.00 FR 1807 0.67 2324 0.97	
<b>4</b> 0019 0.60 0543 0.90 WE 1042 0.69 1804 1.17		<b>12</b> 0507 0.39 1121 1.04 TH 1658 0.64 2242 1.19		<b>20</b> 0112 0.29 0650 0.96 FR 1157 0.59 1910 1.32		<b>28</b> 0611 0.61 1221 1.00 SA 1904 0.70	
<b>5</b> 0054 0.53 0624 0.92 TH 1126 0.68 1845 1.21		<b>13</b> 0550 0.44 1210 1.07 FR 1803 0.64 2330 1.11		<b>21</b> 0154 0.25 0737 0.98 SA 1251 0.56 1957 1.33		<b>29</b> 0024 0.90 0648 0.67 SU 1300 1.01 2008 0.71	
<b>6</b> 0124 0.47 0700 0.94 FR 1209 0.66 1925 1.25		<b>14</b> 0635 0.49 1300 1.09 SA 1908 0.64		<b>22</b> 0232 0.24 0823 0.99 SU 1344 0.54 ○ 2041 1.31		<b>30</b> 0145 0.84 0733 0.70 MO 1353 1.02 ● 2130 0.68	
<b>7</b> 0156 0.42 0737 0.95 SA 1250 0.64 2001 1.28		<b>15</b> 0035 1.02 0723 0.55 SU 1353 1.11 2016 0.62		<b>23</b> 0309 0.27 0910 0.99 MO 1435 0.54 2122 1.27		<b>31</b> 0318 0.82 0826 0.72 TU 1512 1.03 2307 0.62	
<b>8</b> 0230 0.38 0815 0.97 SU 1331 0.63 ● 2036 1.29		<b>16</b> 0216 0.93 0813 0.60 MO 1500 1.14 ● 2140 0.56		<b>24</b> 0345 0.32 0957 0.99 TU 1528 0.56 2158 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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0436 0.84 0921 0.72 WE 1643 1.07 2354 0.55		<b>9</b> 0349 0.34 1000 1.06 TH 1552 0.48 2147 1.15		<b>17</b> 0015 0.32 0553 0.92 FR 1057 0.61 1807 1.21		<b>25</b> 0427 0.59 1042 1.02 SA 1740 0.57 2315 0.88	
<b>2</b> 0525 0.87 1015 0.70 TH 1738 1.12		<b>10</b> 0430 0.40 1049 1.09 FR 1653 0.48 2240 1.08		<b>18</b> 0057 0.28 0635 0.95 SA 1155 0.55 1854 1.22		<b>26</b> 0351 0.64 1115 1.02 SU 1831 0.60	
<b>3</b> 0024 0.48 0602 0.90 FR 1106 0.66 1820 1.16		<b>11</b> 0514 0.47 1137 1.11 SA 1757 0.49 2345 0.99		<b>19</b> 0131 0.27 0718 0.97 SU 1247 0.50 1938 1.21		<b>27</b> 0015 0.83 0410 0.69 MO 1159 1.01 1927 0.61	
<b>4</b> 0053 0.42 0636 0.93 SA 1153 0.61 1857 1.20		<b>12</b> 0602 0.55 1227 1.11 SU 1901 0.49		<b>20</b> 0203 0.29 0800 0.99 MO 1338 0.47 2017 1.17		<b>28</b> 0127 0.80 0439 0.73 TU 1255 1.00 2030 0.60	
<b>5</b> 0125 0.36 0711 0.95 SU 1237 0.57 1930 1.23		<b>13</b> 0106 0.90 0655 0.62 MO 1326 1.11 2013 0.48		<b>21</b> 0235 0.33 0843 0.99 TU 1426 0.46 ○ 2053 1.11		<b>29</b> 0254 0.80 0746 0.76 WE 1409 1.00 *● 2151 0.57	
<b>6</b> 0200 0.31 0748 0.98 MO 1321 0.53 2000 1.24		<b>14</b> 0242 0.85 0752 0.67 TU 1446 1.11 ● 2154 0.45		<b>22</b> 0306 0.38 0921 1.00 WE 1514 0.47 2122 1.05		<b>30</b> 0420 0.82 0848 0.75 TH 1549 1.01 2300 0.51	
<b>7</b> 0235 0.30 0829 1.00 TU 1407 0.50 ● 2030 1.23		<b>15</b> 0408 0.86 0851 0.68 WE 1611 1.14 2320 0.38		<b>23</b> 0338 0.45 0953 1.01 TH 1601 0.50 2148 0.99			
<b>8</b> 0312 0.30 0914 1.03 WE 1456 0.48 2104 1.20		<b>16</b> 0507 0.89 0954 0.66 TH 1715 1.18		<b>24</b> 0407 0.52 1016 1.01 FR 1650 0.53 2224 0.93			

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# LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## OCTOBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0504 0.86 0947 0.71 FR 1701 1.06 2337 0.44		<b>9</b> 0349 0.46 1022 1.16 SA 1648 0.32 2252 0.97		<b>17</b> 0025 0.32 0615 0.96 SU 1156 0.53 1831 1.10		<b>25</b> 0255 0.66 1048 1.06 MO 1800 0.50	
<b>2</b> 0536 0.89 1043 0.65 SA 1744 1.10		<b>10</b> 0439 0.55 1112 1.16 SU 1750 0.33		<b>18</b> 0056 0.33 0657 0.99 MO 1247 0.47 1914 1.06		<b>26</b> 0001 0.81 0319 0.71 TU 1129 1.04 1849 0.51	
<b>3</b> 0011 0.37 0607 0.93 SU 1134 0.58 1816 1.13		<b>11</b> 0001 0.90 0536 0.63 MO 1203 1.15 1854 0.35		<b>19</b> 0124 0.36 0737 1.00 TU 1335 0.43 1951 1.02		<b>27</b> 0103 0.80 0348 0.75 WE 1216 1.02 1943 0.52	
<b>4</b> 0045 0.32 0641 0.97 MO 1223 0.51 1847 1.15		<b>12</b> 0123 0.85 0637 0.69 TU 1307 1.12 2008 0.37		<b>20</b> 0152 0.41 0815 1.02 WE 1420 0.41 2026 0.97		<b>28</b> 0219 0.81 0709 0.79 TH 1313 1.00 * 2041 0.50	
<b>5</b> 0120 0.29 0718 1.01 TU 1311 0.44 1921 1.16		<b>13</b> 0255 0.85 0738 0.72 WE 1430 1.10 ● 2151 0.36		<b>21</b> 0219 0.46 0845 1.03 TH 1503 0.41 ○ 2058 0.93		<b>29</b> 0347 0.83 0812 0.77 FR 1420 1.00 ● 2143 0.46	
<b>6</b> 0155 0.29 0800 1.05 WE 1400 0.38 ● 2002 1.14		<b>14</b> 0409 0.87 0841 0.71 TH 1552 1.10 2300 0.34		<b>22</b> 0240 0.52 0910 1.05 FR 1546 0.42 2134 0.89		<b>30</b> 0428 0.87 0913 0.72 SA 1531 1.01 2236 0.40	
<b>7</b> 0230 0.32 0845 1.09 TH 1452 0.35 2051 1.10		<b>15</b> 0456 0.90 0947 0.67 FR 1655 1.11 2348 0.32		<b>23</b> 0238 0.57 0938 1.06 SA 1630 0.44 2218 0.86		<b>31</b> 0458 0.91 1014 0.66 SU 1630 1.03 2318 0.35	
<b>8</b> 0307 0.38 0933 1.13 FR 1548 0.32 2149 1.04		<b>16</b> 0536 0.93 1056 0.60 SA 1746 1.11		<b>24</b> 0237 0.62 1011 1.06 SU 1715 0.47 2307 0.83			

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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

## NOVEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0530 0.96 1113 0.57 MO 1717 1.06 2357 0.31		<b>9</b> 0003 0.87 0517 0.68 TU 1150 1.20 1843 0.25		<b>17</b> 0036 0.44 0713 1.04 WE 1331 0.42 1927 0.90		<b>25</b> 0034 0.82 0339 0.76 TH 1147 1.06 1905 0.44	
<b>2</b> 0605 1.01 1209 0.47 TU 1805 1.07		<b>10</b> 0123 0.86 0621 0.71 WE 1251 1.15 1951 0.29		<b>18</b> 0102 0.48 0748 1.06 TH 1413 0.39 2003 0.87		<b>26</b> 0136 0.83 0630 0.78 FR 1226 1.04 1955 0.43	
<b>3</b> 0032 0.30 0646 1.07 WE 1301 0.38 1856 1.06		<b>11</b> 0245 0.87 0723 0.72 TH 1402 1.10 ● 2114 0.33		<b>19</b> 0123 0.52 0818 1.08 FR 1453 0.37 ○ 2040 0.86		<b>27</b> 0237 0.85 0734 0.76 SA 1314 1.02 ● 2045 0.41	
<b>4</b> 0107 0.32 0732 1.12 TH 1354 0.30 1951 1.03		<b>12</b> 0345 0.90 0826 0.70 FR 1515 1.06 2219 0.35		<b>20</b> 0134 0.56 0850 1.10 SA 1531 0.37 2119 0.84		<b>28</b> 0326 0.89 0836 0.72 SU 1410 1.00 2135 0.38	
<b>5</b> 0145 0.37 0823 1.17 FR 1447 0.24 ● 2049 1.00		<b>13</b> 0430 0.93 0937 0.66 SA 1620 1.03 2303 0.37		<b>21</b> 0143 0.60 0925 1.11 SU 1611 0.38 2201 0.83		<b>29</b> 0407 0.94 0941 0.66 MO 1517 0.99 2221 0.35	
<b>6</b> 0225 0.44 0914 1.21 SA 1544 0.20 2149 0.95		<b>14</b> 0511 0.96 1055 0.60 SU 1715 1.00 2337 0.39		<b>22</b> 0200 0.64 1001 1.11 MO 1650 0.39 2247 0.82		<b>30</b> 0447 1.00 1050 0.57 TU 1632 0.98 2303 0.34	
<b>7</b> 0313 0.53 1004 1.23 SU 1642 0.19 2254 0.91		<b>15</b> 0552 0.99 1156 0.54 MO 1803 0.96		<b>23</b> 0225 0.68 1038 1.10 TU 1732 0.41 2338 0.82			
<b>8</b> 0412 0.61 1056 1.23 MO 1741 0.21		<b>16</b> 0007 0.41 0633 1.01 TU 1246 0.47 1847 0.93		<b>24</b> 0255 0.72 1113 1.09 WE 1817 0.43			

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# LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0531 1.07 1156 0.45 WE 1745 0.97 2345 0.35		<b>9</b> 0100 0.88 0603 0.68 TH 1230 1.18 1917 0.27		<b>17</b> 0016 0.53 0725 1.09 FR 1404 0.37 1944 0.82		<b>25</b> 0053 0.85 0556 0.73 SA 1146 1.08 1915 0.37	
<b>2</b> 0621 1.13 1254 0.34 TH 1848 0.96		<b>10</b> 0205 0.89 0703 0.69 FR 1325 1.10 2014 0.33		<b>18</b> 0042 0.55 0800 1.12 SA 1440 0.34 2020 0.83		<b>26</b> 0145 0.88 0704 0.72 SU 1227 1.04 2000 0.37	
<b>3</b> 0025 0.38 0715 1.19 FR 1349 0.23 1947 0.95		<b>11</b> 0302 0.91 0805 0.68 SA 1424 1.02 ● 2109 0.39		<b>19</b> 0108 0.58 0836 1.14 SU 1515 0.33 ○ 2058 0.83		<b>27</b> 0233 0.92 0808 0.69 MO 1320 0.98 ● 2047 0.38	
<b>4</b> 0108 0.43 0808 1.25 SA 1444 0.16 ● 2045 0.93		<b>12</b> 0353 0.94 0917 0.67 SU 1529 0.94 2158 0.43		<b>20</b> 0135 0.60 0914 1.16 MO 1550 0.32 2138 0.84		<b>28</b> 0322 0.97 0916 0.63 TU 1435 0.93 2134 0.38	
<b>5</b> 0155 0.49 0901 1.29 SU 1538 0.11 2143 0.91		<b>13</b> 0440 0.97 1045 0.62 MO 1634 0.89 2239 0.46		<b>21</b> 0205 0.63 0950 1.16 TU 1627 0.33 2221 0.83		<b>29</b> 0413 1.03 1032 0.54 WE 1619 0.89 2221 0.39	
<b>6</b> 0249 0.56 0953 1.31 MO 1633 0.11 2245 0.89		<b>14</b> 0526 1.00 1151 0.55 TU 1733 0.85 2315 0.48		<b>22</b> 0239 0.66 1024 1.15 WE 1706 0.34 2308 0.83		<b>30</b> 0509 1.10 1147 0.42 TH 1744 0.88 2309 0.41	
<b>7</b> 0354 0.62 1045 1.29 TU 1728 0.14 2351 0.88		<b>15</b> 0610 1.03 1242 0.48 WE 1823 0.83 2347 0.51		<b>23</b> 0323 0.69 1052 1.13 TH 1746 0.35		<b>31</b> 0607 1.17 1251 0.29 FR 1846 0.89 2357 0.43	
<b>8</b> 0500 0.66 1137 1.25 WE 1822 0.20		<b>16</b> 0649 1.06 1325 0.42 TH 1905 0.82		<b>24</b> 0000 0.84 0429 0.72 FR 1116 1.11 1830 0.36			

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 HM	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<i>Port Phillip Heads</i>	(3 20)	1.5	1.3	0.6	0.4
<i>Dromana</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Mornington</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Portarlington</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Werribee River Entrance</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Point Cook</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Frankston Pier</i>	(0 03)	1.0	0.6	0.5	0.2
<i>Mordialloc Pier</i>	(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

# MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0515 0.94 FR 1102 0.52 1542 0.83 2252 0.18		<b>9</b> 0331 0.42 0944 0.92 SA 1645 0.25 2305 0.82		<b>17</b> 0611 0.93 1222 0.41 SU 1741 0.84		<b>25</b> 0442 0.53 1033 0.83 MO 1750 0.25	
<b>2</b> 0550 0.95 1142 0.49 SA 1630 0.84 2333 0.18		<b>10</b> 0429 0.49 1029 0.91 SU 1745 0.22		<b>18</b> 0015 0.22 0645 0.92 MO 1302 0.38 1830 0.83		<b>26</b> 0108 0.78 0544 0.58 TU 1122 0.81 1851 0.23	
<b>3</b> 0623 0.94 1219 0.46 SU 1720 0.85		<b>11</b> 0032 0.83 0538 0.54 MO 1122 0.89 1849 0.19		<b>19</b> 0052 0.25 0717 0.92 TU 1342 0.35 1917 0.82		<b>27</b> 0221 0.80 0709 0.60 WE 1221 0.79 1952 0.21	
<b>4</b> 0012 0.20 0654 0.93 MO 1258 0.44 1812 0.85		<b>12</b> 0153 0.85 0701 0.58 TU 1222 0.87 1956 0.17		<b>20</b> 0128 0.29 0749 0.91 WE 1418 0.34 2003 0.80		<b>28</b> 0319 0.84 0842 0.58 TH 1322 0.78 2051 0.19	
<b>5</b> 0047 0.22 0724 0.93 TU 1337 0.41 1904 0.85		<b>13</b> 0302 0.88 0836 0.57 WE 1325 0.86 ● 2100 0.16		<b>21</b> 0200 0.33 0819 0.90 TH 1455 0.32 ● 2049 0.79		<b>29</b> 0406 0.86 0947 0.54 FR 1421 0.79 ○ 2145 0.18	
<b>6</b> 0124 0.25 0756 0.93 WE 1418 0.37 ● 1958 0.84		<b>14</b> 0401 0.91 0954 0.53 TH 1430 0.85 2159 0.16		<b>22</b> 0235 0.37 0849 0.89 FR 1531 0.30 2139 0.78		<b>30</b> 0446 0.88 1037 0.50 SA 1522 0.80 2233 0.18	
<b>7</b> 0201 0.30 0829 0.92 TH 1502 0.33 2053 0.83		<b>15</b> 0451 0.93 1049 0.49 FR 1541 0.85 2250 0.17		<b>23</b> 0311 0.42 0920 0.88 SA 1612 0.28 2235 0.77		<b>31</b> 0521 0.90 1120 0.45 SU 1623 0.82 2318 0.19	
<b>8</b> 0243 0.35 0904 0.92 FR 1550 0.29 2153 0.82		<b>16</b> 0533 0.93 1138 0.44 SA 1645 0.85 2334 0.19		<b>24</b> 0352 0.48 0954 0.86 SU 1657 0.26 2344 0.76			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0553 0.90 1200 0.40 MO 1720 0.85 2359 0.21		<b>9</b> 0014 0.81 0512 0.54 TU 1055 0.87 1822 0.20		<b>17</b> 0037 0.29 0644 0.89 WE 1314 0.30 1902 0.84		<b>25</b> 0116 0.77 0606 0.57 TH 1134 0.77 1903 0.24	
<b>2</b> 0624 0.91 1241 0.36 TU 1813 0.87		<b>10</b> 0129 0.82 0631 0.56 WE 1159 0.84 1930 0.20		<b>18</b> 0110 0.32 0712 0.89 TH 1346 0.28 1944 0.84		<b>26</b> 0227 0.79 0733 0.56 FR 1247 0.76 2012 0.23	
<b>3</b> 0038 0.25 0655 0.92 WE 1322 0.32 1904 0.88		<b>11</b> 0237 0.83 0814 0.54 TH 1308 0.81 2042 0.19		<b>19</b> 0141 0.35 0740 0.89 FR 1419 0.27 2025 0.83		<b>27</b> 0320 0.81 0859 0.51 SA 1400 0.77 ○ 2116 0.23	
<b>4</b> 0115 0.29 0727 0.92 TH 1405 0.28 1956 0.87		<b>12</b> 0335 0.85 0939 0.49 FR 1429 0.80 ● 2145 0.20		<b>20</b> 0212 0.39 0807 0.89 SA 1453 0.25 ● 2107 0.82		<b>28</b> 0401 0.84 1001 0.45 SU 1514 0.80 2213 0.23	
<b>5</b> 0155 0.34 0800 0.93 FR 1448 0.25 ● 2048 0.86		<b>13</b> 0424 0.87 1036 0.43 SA 1545 0.80 2239 0.21		<b>21</b> 0245 0.43 0836 0.88 SU 1530 0.24 2154 0.81			
<b>6</b> 0235 0.39 0836 0.93 SA 1534 0.22 2146 0.84		<b>14</b> 0505 0.88 1122 0.38 SU 1645 0.82 2324 0.23		<b>22</b> 0322 0.47 0908 0.86 MO 1611 0.24 2249 0.79			
<b>7</b> 0319 0.44 0915 0.92 SU 1624 0.21 2255 0.82		<b>15</b> 0541 0.88 1203 0.35 MO 1734 0.83		<b>23</b> 0405 0.52 0945 0.84 TU 1658 0.24 2357 0.77			
<b>8</b> 0410 0.50 1000 0.90 MO 1719 0.20		<b>16</b> 0002 0.25 0613 0.89 TU 1240 0.32 1820 0.84		<b>24</b> 0458 0.55 1032 0.80 WE 1755 0.24			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0438 0.86 MO 1050 0.38 1620 0.84 2302 0.25		<b>9</b> 0359 0.50 0939 0.88 TU 1650 0.22 2345 0.82		<b>17</b> 0534 0.86 1207 0.28 WE 1807 0.88		<b>25</b> 0426 0.54 0956 0.81 TH 1703 0.27	
<b>2</b> 0513 0.87 1134 0.32 TU 1716 0.88 2346 0.28		<b>10</b> 0457 0.52 1037 0.84 WE 1750 0.24		<b>18</b> 0020 0.36 0603 0.87 TH 1238 0.27 1846 0.90		<b>26</b> 0004 0.79 0530 0.54 FR 1102 0.78 1809 0.29	
<b>3</b> 0545 0.89 1217 0.28 WE 1808 0.92		<b>11</b> 0054 0.81 0615 0.53 TH 1147 0.80 1902 0.26		<b>19</b> 0052 0.39 0630 0.88 FR 1310 0.26 1924 0.90		<b>27</b> 0111 0.79 0649 0.52 SA 1224 0.77 1925 0.31	
<b>4</b> 0029 0.31 0619 0.91 TH 1300 0.24 1859 0.93		<b>12</b> 0200 0.81 0802 0.50 FR 1310 0.77 2021 0.27		<b>20</b> 0121 0.41 0658 0.89 SA 1343 0.25 2000 0.90		<b>28</b> 0212 0.81 0808 0.46 SU 1349 0.79 2039 0.32	
<b>5</b> 0109 0.35 0655 0.93 FR 1345 0.21 1949 0.93		<b>13</b> 0259 0.83 0922 0.44 SA 1441 0.78 ● 2131 0.27		<b>21</b> 0151 0.44 0726 0.89 SU 1417 0.24 2039 0.89		<b>29</b> 0302 0.83 0916 0.38 MO 1510 0.84 ○ 2147 0.34	
<b>6</b> 0149 0.39 0731 0.94 SA 1429 0.20 ● 2042 0.91		<b>14</b> 0347 0.84 1015 0.38 SU 1546 0.80 2225 0.28		<b>22</b> 0222 0.46 0756 0.88 MO 1452 0.24 ○ 2120 0.86		<b>30</b> 0345 0.85 1014 0.31 TU 1614 0.90 2244 0.36	
<b>7</b> 0230 0.43 0810 0.93 SU 1513 0.20 2138 0.88		<b>15</b> 0429 0.85 1058 0.33 MO 1640 0.83 2309 0.30		<b>23</b> 0257 0.49 0830 0.87 TU 1530 0.24 2206 0.84		<b>31</b> 0424 0.88 1103 0.26 WE 1709 0.95 2331 0.39	
<b>8</b> 0312 0.47 0851 0.92 MO 1559 0.20 2240 0.85		<b>16</b> 0503 0.86 1134 0.30 TU 1726 0.86 2346 0.33		<b>24</b> 0336 0.52 0907 0.84 WE 1612 0.25 2300 0.81			

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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

## APRIL - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0502 0.91 1150 0.22 TH 1800 0.99		<b>9</b> 0010 0.85 0613 0.49 FR 1149 0.78 1829 0.35		<b>17</b> 0031 0.47 0545 0.90 SA 1233 0.26 1906 0.97		<b>25</b> 0004 0.86 0619 0.46 SU 1215 0.81 1837 0.41	
<b>2</b> 0015 0.42 0541 0.93 FR 1235 0.19 1851 1.00		<b>10</b> 0114 0.84 0746 0.45 SA 1322 0.77 1954 0.38		<b>18</b> 0101 0.49 0615 0.91 SU 1308 0.26 1941 0.96		<b>26</b> 0100 0.86 0731 0.40 MO 1344 0.85 1957 0.45	
<b>3</b> 0058 0.44 0621 0.95 SA 1320 0.19 1943 0.99		<b>11</b> 0213 0.84 0854 0.39 SU 1440 0.80 2110 0.39		<b>19</b> 0131 0.50 0647 0.90 MO 1343 0.26 2015 0.95		<b>27</b> 0155 0.87 0837 0.32 TU 1502 0.92 ○ 2115 0.48	
<b>4</b> 0139 0.46 0703 0.95 SU 1404 0.20 ● 2033 0.96		<b>12</b> 0302 0.84 0944 0.34 MO 1541 0.85 ● 2205 0.40		<b>20</b> 0202 0.52 0721 0.89 TU 1417 0.27 ● 2052 0.93		<b>28</b> 0245 0.90 0936 0.26 WE 1606 0.98 2222 0.50	
<b>5</b> 0220 0.48 0747 0.94 MO 1447 0.22 2125 0.93		<b>13</b> 0344 0.85 1023 0.30 TU 1630 0.89 2249 0.42		<b>21</b> 0235 0.53 0757 0.87 WE 1452 0.27 2131 0.90		<b>29</b> 0331 0.92 1030 0.22 TH 1702 1.02 2313 0.52	
<b>6</b> 0303 0.49 0835 0.91 TU 1531 0.24 2216 0.90		<b>14</b> 0418 0.86 1057 0.28 WE 1715 0.93 2327 0.44		<b>22</b> 0315 0.53 0839 0.85 TH 1531 0.29 2216 0.88		<b>30</b> 0416 0.95 1121 0.20 FR 1755 1.05 2359 0.52	
<b>7</b> 0351 0.50 0929 0.87 WE 1619 0.28 2311 0.87		<b>15</b> 0448 0.87 1128 0.27 TH 1754 0.96		<b>23</b> 0403 0.53 0935 0.82 FR 1618 0.32 2308 0.86			
<b>8</b> 0449 0.51 1032 0.82 TH 1715 0.31		<b>16</b> 0000 0.46 0516 0.88 FR 1200 0.26 1830 0.97		<b>24</b> 0505 0.51 1048 0.80 SA 1720 0.36			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0502 0.97 1209 0.20 SA 1845 1.05		<b>9</b> 0016 0.89 0716 0.42 SU 1318 0.81 1915 0.50		<b>17</b> 0042 0.55 0539 0.92 MO 1237 0.28 1924 1.01		<b>25</b> 0004 0.93 0702 0.34 TU 1337 0.91 1916 0.58	
<b>2</b> 0043 0.52 0550 0.98 SU 1254 0.21 1933 1.04		<b>10</b> 0113 0.87 0814 0.37 MO 1430 0.85 2037 0.52		<b>18</b> 0114 0.56 0615 0.91 TU 1312 0.29 1956 0.99		<b>26</b> 0059 0.94 0805 0.27 WE 1454 0.97 ○ 2040 0.61	
<b>3</b> 0126 0.52 0640 0.97 MO 1339 0.23 2019 1.01		<b>11</b> 0203 0.87 0900 0.33 TU 1528 0.91 2137 0.53		<b>19</b> 0145 0.56 0654 0.90 WE 1345 0.30 2028 0.98		<b>27</b> 0153 0.95 0905 0.23 TH 1559 1.03 2158 0.61	
<b>4</b> 0209 0.51 0731 0.94 TU 1421 0.27 ● 2104 0.98		<b>12</b> 0246 0.87 0939 0.30 WE 1617 0.96 ● 2223 0.54		<b>20</b> 0220 0.55 0736 0.88 TH 1419 0.32 ● 2102 0.96		<b>28</b> 0245 0.97 1002 0.21 FR 1656 1.06 2253 0.61	
<b>5</b> 0255 0.51 0826 0.90 WE 1504 0.30 2147 0.95		<b>13</b> 0322 0.88 1015 0.28 TH 1700 1.00 2302 0.55		<b>21</b> 0300 0.53 0827 0.86 FR 1457 0.34 2141 0.95		<b>29</b> 0338 0.98 1056 0.21 SA 1747 1.07 2342 0.59	
<b>6</b> 0345 0.50 0924 0.86 TH 1548 0.35 2233 0.93		<b>14</b> 0355 0.89 1049 0.27 FR 1740 1.02 2337 0.55		<b>22</b> 0349 0.51 0930 0.85 SA 1544 0.39 2224 0.94		<b>30</b> 0431 0.99 1145 0.22 SU 1834 1.07	
<b>7</b> 0447 0.49 1031 0.81 FR 1639 0.40 2322 0.90		<b>15</b> 0428 0.91 1125 0.27 SA 1816 1.03		<b>23</b> 0448 0.46 1045 0.84 SU 1642 0.45 2312 0.93		<b>31</b> 0028 0.56 0528 0.99 MO 1230 0.24 1917 1.06	
<b>8</b> 0606 0.46 1151 0.79 SA 1747 0.46		<b>16</b> 0010 0.55 0502 0.92 SU 1201 0.27 1851 1.02		<b>24</b> 0555 0.40 1208 0.86 MO 1756 0.52			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0113 0.54 0625 0.97 TU 1315 0.28 1958 1.04		<b>9</b> 0053 0.89 0811 0.32 WE 1507 0.94 2059 0.63		<b>17</b> 0132 0.55 0641 0.90 TH 1318 0.32 2002 1.00		<b>25</b> 0115 0.97 0841 0.22 FR 1549 1.02 ○ 2132 0.66	
<b>2</b> 0159 0.52 0722 0.93 WE 1357 0.32 ● 2037 1.02		<b>10</b> 0139 0.88 0853 0.29 TH 1558 0.99 ● 2152 0.63		<b>18</b> 0210 0.53 0732 0.88 FR 1353 0.35 ● 2034 1.00		<b>26</b> 0213 0.98 0940 0.21 SA 1645 1.04 2235 0.63	
<b>3</b> 0245 0.50 0819 0.89 TH 1437 0.36 2115 1.00		<b>11</b> 0223 0.89 0934 0.27 FR 1643 1.02 2235 0.62		<b>19</b> 0251 0.49 0829 0.88 SA 1432 0.39 2108 1.00		<b>27</b> 0312 0.97 1035 0.22 SU 1733 1.05 2327 0.59	
<b>4</b> 0337 0.48 0917 0.85 FR 1518 0.41 2155 0.98		<b>12</b> 0305 0.90 1015 0.26 SA 1723 1.04 2314 0.60		<b>20</b> 0338 0.45 0930 0.87 SU 1517 0.45 2145 0.99		<b>28</b> 0415 0.97 1126 0.24 MO 1815 1.05	
<b>5</b> 0435 0.46 1022 0.82 SA 1604 0.47 2235 0.95		<b>13</b> 0348 0.91 1055 0.27 SU 1800 1.04 2349 0.59		<b>21</b> 0431 0.40 1039 0.88 MO 1613 0.52 2229 0.99		<b>29</b> 0015 0.55 0518 0.96 TU 1211 0.27 1854 1.04	
<b>6</b> 0538 0.43 1139 0.82 SU 1700 0.53 2319 0.93		<b>14</b> 0430 0.92 1134 0.28 MO 1833 1.03		<b>22</b> 0532 0.34 1200 0.89 TU 1720 0.59 2319 0.98		<b>30</b> 0100 0.51 0618 0.93 WE 1254 0.30 1930 1.03	
<b>7</b> 0634 0.39 1300 0.84 MO 1820 0.59		<b>15</b> 0023 0.58 0512 0.92 TU 1211 0.29 1904 1.02		<b>23</b> 0636 0.29 1328 0.93 WE 1840 0.65			
<b>8</b> 0006 0.91 0725 0.35 TU 1409 0.89 1947 0.63		<b>16</b> 0057 0.57 0555 0.91 WE 1245 0.31 1933 1.01		<b>24</b> 0015 0.98 0739 0.24 TH 1445 0.98 2004 0.67			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0146 0.48 0714 0.91 TH 1334 0.35 2006 1.02		<b>9</b> 0045 0.88 0811 0.28 FR 1532 0.96 2113 0.67		<b>17</b> 0158 0.45 0734 0.89 SA 1335 0.38 ● 2003 1.00		<b>25</b> 0153 0.93 0924 0.21 SU 1626 0.98 2221 0.58	
<b>2</b> 0231 0.45 0808 0.88 FR 1413 0.39 ● 2040 1.01		<b>10</b> 0137 0.88 0900 0.26 SA 1619 0.98 ● 2205 0.64		<b>18</b> 0239 0.41 0828 0.89 SU 1415 0.43 2036 1.00		<b>26</b> 0302 0.92 1021 0.22 MO 1711 0.99 2315 0.53	
<b>3</b> 0317 0.43 0902 0.85 SA 1450 0.44 2115 0.99		<b>11</b> 0229 0.88 0946 0.25 SU 1700 1.00 2248 0.61		<b>19</b> 0324 0.36 0926 0.89 MO 1459 0.49 2112 1.00		<b>27</b> 0415 0.91 1112 0.25 TU 1749 0.99	
<b>4</b> 0403 0.41 1000 0.83 SU 1530 0.50 2149 0.97		<b>12</b> 0318 0.89 1030 0.25 MO 1735 1.01 2327 0.57		<b>20</b> 0415 0.32 1030 0.88 TU 1550 0.55 2153 1.00		<b>28</b> 0001 0.48 0517 0.91 WE 1156 0.28 1825 0.99	
<b>5</b> 0452 0.38 1109 0.83 MO 1615 0.56 2226 0.95		<b>13</b> 0408 0.89 1112 0.26 TU 1807 1.00		<b>21</b> 0510 0.28 1151 0.89 WE 1651 0.61 2243 0.98		<b>29</b> 0045 0.44 0611 0.90 TH 1236 0.32 1859 0.99	
<b>6</b> 0542 0.36 1226 0.85 TU 1712 0.62 2308 0.92		<b>14</b> 0004 0.55 0458 0.89 WE 1150 0.28 1836 1.00		<b>22</b> 0612 0.25 1315 0.90 TH 1807 0.66 2342 0.96		<b>30</b> 0127 0.41 0701 0.88 FR 1314 0.36 1931 0.99	
<b>7</b> 0632 0.33 1336 0.88 WE 1831 0.67 2355 0.90		<b>15</b> 0041 0.52 0549 0.89 TH 1225 0.31 1905 1.00		<b>23</b> 0716 0.22 1429 0.93 FR 1933 0.67		<b>31</b> 0206 0.39 0750 0.87 SA 1349 0.40 ● 2002 0.98	
<b>8</b> 0722 0.30 1438 0.92 TH 2001 0.68		<b>16</b> 0118 0.48 0642 0.89 FR 1300 0.34 1933 1.00		<b>24</b> 0046 0.95 0820 0.21 SA 1532 0.96 ○ 2112 0.64			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0244 0.37 0839 0.85 SU 1424 0.45 2033 0.97		<b>9</b> 0159 0.83 0919 0.24 MO 1625 0.93 2217 0.56		<b>17</b> 0306 0.28 0916 0.89 TU 1447 0.50 2042 0.98		<b>25</b> 0419 0.87 1100 0.27 WE 1716 0.93 2342 0.38	
<b>2</b> 0322 0.35 0930 0.84 MO 1500 0.49 2103 0.96		<b>10</b> 0259 0.84 1008 0.24 TU 1700 0.94 2300 0.51		<b>18</b> 0353 0.26 1020 0.87 WE 1535 0.55 2124 0.97		<b>26</b> 0513 0.88 1143 0.30 TH 1750 0.93	
<b>3</b> 0400 0.33 1027 0.84 TU 1539 0.55 2136 0.94		<b>11</b> 0400 0.86 1052 0.26 WE 1730 0.95 2339 0.46		<b>19</b> 0445 0.24 1138 0.85 TH 1630 0.59 2215 0.94		<b>27</b> 0020 0.35 0600 0.88 FR 1220 0.34 1822 0.94	
<b>4</b> 0445 0.31 1133 0.84 WE 1624 0.60 2214 0.91		<b>12</b> 0456 0.88 1132 0.28 TH 1800 0.96		<b>20</b> 0546 0.23 1253 0.85 FR 1742 0.61 2320 0.91		<b>28</b> 0057 0.33 0645 0.88 SA 1255 0.37 1853 0.94	
<b>5</b> 0534 0.29 1248 0.84 TH 1719 0.64 2300 0.88		<b>13</b> 0018 0.42 0548 0.90 FR 1210 0.32 1830 0.97		<b>21</b> 0653 0.23 1402 0.87 SA 1914 0.61		<b>29</b> 0130 0.32 0730 0.88 SU 1328 0.41 1922 0.94	
<b>6</b> 0630 0.28 1358 0.86 FR 1835 0.66 2357 0.85		<b>14</b> 0058 0.38 0639 0.91 SA 1247 0.36 1900 0.98		<b>22</b> 0032 0.88 0803 0.23 SU 1504 0.89 ○ 2100 0.56		<b>30</b> 0204 0.30 0813 0.87 MO 1400 0.44 ● 1950 0.94	
<b>7</b> 0730 0.26 1457 0.88 SA 2013 0.65		<b>15</b> 0139 0.34 0730 0.91 SU 1325 0.40 1931 0.98		<b>23</b> 0150 0.86 0912 0.23 MO 1556 0.91 2208 0.49		<b>31</b> 0239 0.29 0856 0.86 TU 1431 0.48 2018 0.93	
<b>8</b> 0058 0.83 0827 0.25 SU 1545 0.91 ● 2127 0.61		<b>16</b> 0221 0.31 0821 0.90 MO 1404 0.45 ● 2005 0.99		<b>24</b> 0314 0.86 1012 0.24 TU 1640 0.92 2259 0.43			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0315 0.28 0944 0.84 WE 1507 0.51 2050 0.91		<b>9</b> 0356 0.86 1033 0.29 TH 1646 0.90 2308 0.35		<b>17</b> 0420 0.24 1113 0.83 FR 1620 0.54 2202 0.88		<b>25</b> 0548 0.90 1202 0.38 SA 1742 0.89	
<b>2</b> 0355 0.27 1037 0.82 TH 1547 0.55 2126 0.88		<b>10</b> 0451 0.90 1117 0.32 FR 1718 0.92 2349 0.31		<b>18</b> 0518 0.25 1219 0.82 SA 1731 0.55 2313 0.84		<b>26</b> 0019 0.27 0629 0.91 SU 1235 0.40 1811 0.90	
<b>3</b> 0441 0.27 1140 0.81 FR 1635 0.59 2211 0.84		<b>11</b> 0542 0.93 1159 0.36 SA 1751 0.94		<b>19</b> 0628 0.27 1325 0.82 SU 1909 0.52		<b>27</b> 0051 0.26 0708 0.91 MO 1306 0.43 1839 0.91	
<b>4</b> 0534 0.27 1252 0.80 SA 1738 0.61 2311 0.81		<b>12</b> 0031 0.27 0631 0.94 SU 1239 0.40 1824 0.95		<b>20</b> 0035 0.81 0745 0.28 MO 1427 0.84 2047 0.46		<b>28</b> 0124 0.26 0746 0.90 TU 1336 0.45 1907 0.91	
<b>5</b> 0640 0.27 1400 0.81 SU 1903 0.60		<b>13</b> 0115 0.25 0721 0.94 MO 1319 0.43 1900 0.96		<b>21</b> 0209 0.81 0900 0.28 TU 1518 0.85 ○ 2148 0.39		<b>29</b> 0159 0.25 0824 0.89 WE 1406 0.47 ● 1938 0.90	
<b>6</b> 0024 0.78 0747 0.27 MO 1454 0.83 2033 0.55		<b>14</b> 0159 0.23 0813 0.92 TU 1400 0.47 ● 1937 0.96		<b>22</b> 0321 0.83 1000 0.29 WE 1601 0.87 2235 0.33		<b>30</b> 0234 0.25 0905 0.86 TH 1439 0.49 2010 0.88	
<b>7</b> 0138 0.79 0849 0.26 TU 1536 0.86 ● 2136 0.48		<b>15</b> 0244 0.23 0907 0.89 WE 1441 0.50 2018 0.95		<b>23</b> 0417 0.86 1047 0.32 TH 1639 0.88 2314 0.30			
<b>8</b> 0251 0.82 0945 0.27 WE 1613 0.88 2225 0.41		<b>16</b> 0330 0.23 1008 0.86 TH 1526 0.53 2104 0.92		<b>24</b> 0505 0.89 1128 0.35 FR 1712 0.88 2347 0.28			

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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

## OCTOBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0313 0.25 0950 0.83 FR 1516 0.52 2047 0.85		<b>9</b> 0444 0.94 1102 0.40 SA 1631 0.90 2318 0.21		<b>17</b> 0447 0.30 1138 0.82 SU 1732 0.48 2319 0.78		<b>25</b> 0614 0.95 1215 0.45 MO 1727 0.88	
<b>2</b> 0354 0.26 1042 0.81 SA 1602 0.53 2133 0.81		<b>10</b> 0534 0.97 1146 0.42 SU 1709 0.92		<b>18</b> 0558 0.33 1239 0.82 MO 1908 0.43		<b>26</b> 0014 0.23 0649 0.95 TU 1245 0.46 1758 0.89	
<b>3</b> 0443 0.28 1141 0.79 SU 1702 0.54 2237 0.77		<b>11</b> 0004 0.19 0623 0.98 MO 1230 0.45 1749 0.94		<b>19</b> 0052 0.77 0723 0.36 TU 1340 0.82 2024 0.37		<b>27</b> 0048 0.23 0724 0.94 WE 1315 0.47 1830 0.89	
<b>4</b> 0544 0.30 1243 0.79 MO 1819 0.52		<b>12</b> 0049 0.19 0714 0.97 TU 1311 0.46 1830 0.95		<b>20</b> 0215 0.80 0842 0.37 WE 1433 0.83 2119 0.31		<b>28</b> 0123 0.24 0759 0.91 TH 1345 0.48 1903 0.87	
<b>5</b> 0000 0.76 0658 0.32 TU 1341 0.80 1941 0.46		<b>13</b> 0134 0.19 0804 0.94 WE 1352 0.48 ● 1915 0.94		<b>21</b> 0318 0.85 0942 0.38 TH 1518 0.83 ○ 2201 0.27		<b>29</b> 0158 0.24 0834 0.89 FR 1417 0.49 ● 1939 0.85	
<b>6</b> 0128 0.78 0810 0.33 WE 1431 0.82 ● 2048 0.38		<b>14</b> 0219 0.21 0856 0.91 TH 1435 0.49 2002 0.91		<b>22</b> 0411 0.89 1029 0.40 FR 1556 0.84 2237 0.25		<b>30</b> 0232 0.25 0913 0.86 SA 1455 0.49 2019 0.82	
<b>7</b> 0245 0.83 0915 0.35 TH 1515 0.84 2144 0.31		<b>15</b> 0304 0.23 0948 0.87 FR 1522 0.49 2057 0.87		<b>23</b> 0456 0.93 1108 0.42 SA 1628 0.85 2309 0.23		<b>31</b> 0311 0.27 0955 0.84 SU 1540 0.49 2112 0.79	
<b>8</b> 0349 0.89 1013 0.37 FR 1554 0.87 2232 0.25		<b>16</b> 0352 0.26 1041 0.84 SA 1617 0.49 2201 0.82		<b>24</b> 0536 0.95 1143 0.43 SU 1657 0.87 2341 0.23			

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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

## NOVEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0355 0.30 1043 0.82 MO 1637 0.47 2221 0.76		<b>9</b> 0618 1.00 1216 0.49 TU 1719 0.94		<b>17</b> 0053 0.77 0647 0.45 WE 1241 0.82 1947 0.31		<b>25</b> 0019 0.22 0708 0.95 TH 1259 0.48 1801 0.86	
<b>2</b> 0452 0.34 1134 0.81 TU 1747 0.43 2347 0.76		<b>10</b> 0027 0.16 0707 0.99 WE 1300 0.48 1809 0.94		<b>18</b> 0207 0.82 0811 0.47 TH 1335 0.82 2038 0.27		<b>26</b> 0054 0.23 0739 0.93 FR 1330 0.48 1840 0.85	
<b>3</b> 0605 0.39 1229 0.82 WE 1901 0.37		<b>11</b> 0112 0.18 0753 0.96 TH 1344 0.47 ● 1902 0.92		<b>19</b> 0308 0.87 0915 0.48 FR 1422 0.81 ○ 2121 0.24		<b>27</b> 0127 0.24 0810 0.91 SA 1402 0.47 ● 1920 0.83	
<b>4</b> 0118 0.80 0725 0.43 TH 1322 0.83 2007 0.29		<b>12</b> 0156 0.22 0838 0.93 FR 1430 0.46 1958 0.88		<b>20</b> 0359 0.92 1005 0.49 SA 1502 0.82 2158 0.22		<b>28</b> 0200 0.26 0842 0.90 SU 1440 0.46 2008 0.80	
<b>5</b> 0237 0.87 0841 0.46 FR 1413 0.85 ● 2105 0.23		<b>13</b> 0240 0.26 0922 0.90 SA 1519 0.45 2058 0.83		<b>21</b> 0444 0.95 1045 0.49 SU 1537 0.83 2232 0.21		<b>29</b> 0234 0.29 0917 0.88 MO 1525 0.43 2106 0.78	
<b>6</b> 0341 0.93 0950 0.48 SA 1500 0.87 2200 0.18		<b>14</b> 0325 0.30 1006 0.87 SU 1617 0.43 2204 0.79		<b>22</b> 0523 0.97 1122 0.49 MO 1612 0.85 2308 0.20		<b>30</b> 0317 0.33 0957 0.87 TU 1617 0.40 2215 0.77	
<b>7</b> 0437 0.98 1045 0.49 SU 1545 0.90 2251 0.16		<b>15</b> 0415 0.35 1054 0.85 MO 1731 0.40 2324 0.76		<b>23</b> 0600 0.98 1155 0.48 TU 1647 0.86 2344 0.21			
<b>8</b> 0529 1.00 1132 0.49 MO 1631 0.93 2340 0.15		<b>16</b> 0520 0.41 1145 0.84 TU 1846 0.36		<b>24</b> 0635 0.97 1227 0.48 WE 1724 0.87			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0411 0.39 1040 0.86 WE 1720 0.35 2335 0.78		<b>9</b> 0008 0.16 0654 0.98 TH 1249 0.47 1800 0.91		<b>17</b> 0145 0.82 0720 0.55 FR 1229 0.82 1950 0.24		<b>25</b> 0031 0.22 0717 0.93 SA 1317 0.45 1830 0.82	
<b>2</b> 0519 0.46 1130 0.86 TH 1828 0.29		<b>10</b> 0053 0.19 0735 0.96 FR 1336 0.44 1900 0.89		<b>18</b> 0247 0.87 0837 0.56 SA 1317 0.80 2037 0.22		<b>26</b> 0103 0.24 0745 0.92 SU 1352 0.43 1918 0.82	
<b>3</b> 0105 0.83 0639 0.52 FR 1224 0.86 1932 0.23		<b>11</b> 0136 0.23 0814 0.94 SA 1424 0.41 ● 1957 0.85		<b>19</b> 0340 0.91 0935 0.55 SU 1404 0.80 ○ 2120 0.20		<b>27</b> 0135 0.27 0814 0.91 MO 1430 0.40 ● 2009 0.81	
<b>4</b> 0227 0.89 0800 0.56 SA 1319 0.87 ● 2034 0.18		<b>12</b> 0217 0.28 0852 0.92 SU 1515 0.39 2055 0.81		<b>20</b> 0427 0.94 1021 0.54 MO 1450 0.81 2202 0.19		<b>28</b> 0211 0.31 0845 0.91 TU 1513 0.36 2104 0.80	
<b>5</b> 0334 0.94 0922 0.56 SU 1415 0.89 2133 0.14		<b>13</b> 0300 0.33 0931 0.91 MO 1609 0.36 2158 0.78		<b>21</b> 0507 0.96 1100 0.52 TU 1535 0.83 2243 0.19		<b>29</b> 0252 0.36 0918 0.91 WE 1600 0.32 2205 0.80	
<b>6</b> 0433 0.98 1026 0.55 MO 1508 0.91 2229 0.13		<b>14</b> 0345 0.39 1012 0.89 TU 1708 0.34 2312 0.76		<b>22</b> 0545 0.96 1136 0.50 WE 1618 0.83 2322 0.19		<b>30</b> 0341 0.43 0957 0.90 TH 1655 0.27 2319 0.80	
<b>7</b> 0525 0.99 1116 0.53 TU 1603 0.92 2320 0.14		<b>15</b> 0438 0.46 1054 0.86 WE 1806 0.31		<b>23</b> 0618 0.95 1211 0.48 TH 1702 0.84 2358 0.21		<b>31</b> 0442 0.51 1043 0.89 FR 1757 0.23	
<b>8</b> 0612 0.99 1203 0.50 WE 1701 0.92		<b>16</b> 0034 0.78 0552 0.51 TH 1140 0.84 1900 0.27		<b>24</b> 0648 0.94 1245 0.46 FR 1746 0.83			

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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
<i>Apollo Bay</i>	(0 30)	2.0	1.3	1.1	0.4
<i>Lorne</i>	(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

# 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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0138 1.60 FR 1313 1.33 1916 0.26		<b>9</b> 0013 0.61 0648 1.46 SA 1250 0.32 2004 1.40		<b>17</b> 0304 1.67 0840 0.55 SU 1446 1.43 2046 0.25		<b>25</b> 0129 0.83 0743 1.28 MO 1400 0.43 2128 1.29	
<b>2</b> 0218 1.64 0758 0.69 SA 1358 1.37 1954 0.25		<b>10</b> 0108 0.72 0739 1.41 SU 1345 0.29 2116 1.43		<b>18</b> 0344 1.65 0925 0.49 MO 1534 1.42 2128 0.31		<b>26</b> 0226 0.90 0836 1.23 TU 1457 0.44 2230 1.33	
<b>3</b> 0257 1.66 0836 0.63 SU 1442 1.39 2031 0.25		<b>11</b> 0212 0.81 0838 1.36 MO 1450 0.27 2227 1.48		<b>19</b> 0419 1.61 1006 0.45 TU 1619 1.40 2206 0.39		<b>27</b> 0338 0.93 0939 1.20 WE 1604 0.42 2331 1.38	
<b>4</b> 0335 1.66 0915 0.57 MO 1525 1.40 2110 0.28		<b>12</b> 0327 0.85 0945 1.34 TU 1603 0.25 2333 1.54		<b>20</b> 0450 1.56 1045 0.42 WE 1704 1.37 2244 0.47		<b>28</b> 0455 0.91 1047 1.21 TH 1710 0.38	
<b>5</b> 0412 1.64 0953 0.52 TU 1609 1.41 2151 0.33		<b>13</b> 0445 0.84 1057 1.34 WE 1715 0.22 ●		<b>21</b> 0520 1.51 1120 0.41 TH 1749 1.33 ○ 2320 0.56		<b>29</b> 0026 1.45 0600 0.85 FR 1153 1.24 ○ 1805 0.33	
<b>6</b> 0447 1.61 1033 0.46 WE 1656 1.41 ● 2235 0.40		<b>14</b> 0034 1.60 0557 0.78 TH 1203 1.37 1815 0.19		<b>22</b> 0550 1.45 1156 0.40 FR 1838 1.31 2359 0.65		<b>30</b> 0114 1.52 0651 0.76 SA 1250 1.30 1853 0.29	
<b>7</b> 0525 1.56 1115 0.40 TH 1749 1.40 2322 0.50		<b>15</b> 0130 1.65 0657 0.70 FR 1303 1.40 1911 0.19		<b>23</b> 0622 1.39 1232 0.41 SA 1930 1.29		<b>31</b> 0157 1.58 0736 0.67 SU 1343 1.37 1937 0.27	
<b>8</b> 0604 1.51 1200 0.35 FR 1852 1.39		<b>16</b> 0219 1.67 0750 0.62 SA 1357 1.43 2000 0.21		<b>24</b> 0041 0.74 0659 1.33 SU 1313 0.42 2027 1.28			

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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

## FEBRUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0237 1.62 0817 0.56 MO 1430 1.43 2019 0.27		<b>9</b> 0146 0.80 0810 1.34 TU 1425 0.30 2203 1.41		<b>17</b> 0346 1.57 0943 0.37 WE 1604 1.46 2146 0.43		<b>25</b> 0236 0.91 0851 1.19 TH 1457 0.45 2244 1.32	
<b>2</b> 0315 1.64 0859 0.46 TU 1517 1.48 2102 0.30		<b>10</b> 0257 0.85 0921 1.29 WE 1541 0.33 2312 1.43		<b>18</b> 0414 1.54 1015 0.34 TH 1641 1.45 2220 0.49		<b>26</b> 0353 0.90 1008 1.18 FR 1612 0.45 2347 1.37	
<b>3</b> 0351 1.64 0939 0.37 WE 1604 1.51 2145 0.35		<b>11</b> 0421 0.84 1040 1.28 TH 1659 0.32		<b>19</b> 0442 1.50 1047 0.33 FR 1717 1.43 2255 0.56		<b>27</b> 0514 0.84 1127 1.23 SA 1727 0.41 ○	
<b>4</b> 0427 1.61 1021 0.29 TH 1653 1.52 2230 0.43		<b>12</b> 0016 1.47 0541 0.77 FR 1151 1.31 ● 1805 0.31		<b>20</b> 0511 1.46 1119 0.33 SA 1756 1.41 ● 2330 0.63		<b>28</b> 0041 1.45 0618 0.72 SU 1232 1.32 1829 0.38	
<b>5</b> 0502 1.58 1103 0.24 FR 1745 1.50 ● 2315 0.52		<b>13</b> 0113 1.53 0647 0.67 SA 1254 1.35 1901 0.30		<b>21</b> 0542 1.41 1152 0.34 SU 1839 1.37			
<b>6</b> 0540 1.53 1146 0.22 SA 1843 1.47		<b>14</b> 0200 1.57 0742 0.57 SU 1350 1.40 1949 0.31		<b>22</b> 0007 0.70 0616 1.35 MO 1228 0.37 1929 1.34			
<b>7</b> 0000 0.62 0622 1.47 SU 1231 0.23 1946 1.44		<b>15</b> 0241 1.59 0828 0.49 MO 1440 1.44 2032 0.33		<b>23</b> 0047 0.78 0657 1.29 TU 1306 0.40 2026 1.30			
<b>8</b> 0050 0.71 0711 1.40 MO 1323 0.26 2054 1.41		<b>16</b> 0315 1.59 0907 0.42 TU 1524 1.46 2111 0.38		<b>24</b> 0135 0.86 0746 1.24 WE 1354 0.43 2133 1.29			

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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0127 1.52 0708 0.59 MO 1330 1.43 1919 0.36		<b>9</b> 0031 0.71 0651 1.38 TU 1301 0.30 2031 1.40		<b>17</b> 0240 1.52 0836 0.37 WE 1508 1.54 2050 0.49		<b>25</b> 0056 0.82 0713 1.25 TH 1307 0.46 2043 1.32	
<b>2</b> 0209 1.58 0752 0.45 TU 1422 1.54 2006 0.35		<b>10</b> 0125 0.78 0753 1.31 WE 1401 0.38 2139 1.36		<b>18</b> 0308 1.51 0909 0.33 TH 1543 1.56 2123 0.52		<b>26</b> 0149 0.86 0818 1.21 FR 1406 0.50 2153 1.32	
<b>3</b> 0248 1.61 0835 0.33 WE 1511 1.61 2051 0.38		<b>11</b> 0235 0.82 0911 1.25 TH 1519 0.45 2247 1.36		<b>19</b> 0336 1.50 0941 0.31 FR 1615 1.57 2156 0.55		<b>27</b> 0300 0.85 0941 1.21 SA 1520 0.54 2300 1.35	
<b>4</b> 0326 1.62 0918 0.23 TH 1559 1.65 2135 0.42		<b>12</b> 0405 0.80 1033 1.24 FR 1642 0.47 2351 1.39		<b>20</b> 0405 1.48 1012 0.31 SA 1646 1.55 2230 0.60		<b>28</b> 0421 0.77 1106 1.28 SU 1643 0.55 2358 1.42	
<b>5</b> 0402 1.61 1001 0.17 FR 1646 1.65 2219 0.48		<b>13</b> 0530 0.72 1146 1.29 SA 1751 0.46 ●		<b>21</b> 0436 1.45 1044 0.32 SU 1722 1.52 2303 0.65		<b>29</b> 0534 0.64 1216 1.41 MO 1800 0.53 ○	
<b>6</b> 0439 1.58 1045 0.14 SA 1736 1.61 ● 2301 0.55		<b>14</b> 0046 1.44 0633 0.62 SU 1251 1.36 1848 0.45		<b>22</b> 0509 1.41 1115 0.34 MO 1801 1.47 ○ 2337 0.70		<b>30</b> 0048 1.49 0630 0.48 TU 1316 1.56 1859 0.51	
<b>7</b> 0518 1.52 1128 0.17 SU 1829 1.54 2345 0.63		<b>15</b> 0131 1.49 0722 0.52 MO 1345 1.44 1935 0.45		<b>23</b> 0544 1.36 1146 0.37 TU 1847 1.42		<b>31</b> 0133 1.55 0719 0.34 WE 1410 1.68 1948 0.50	
<b>8</b> 0601 1.46 1213 0.22 MO 1928 1.47		<b>16</b> 0209 1.51 0801 0.43 TU 1430 1.50 2015 0.46		<b>24</b> 0014 0.77 0623 1.30 WE 1222 0.41 1941 1.36			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0215 1.59 0806 0.22 TH 1500 1.76 2034 0.51		<b>9</b> 0223 0.78 0911 1.25 FR 1454 0.60 2215 1.36		<b>17</b> 0300 1.48 0905 0.33 SA 1547 1.67 2130 0.65		<b>25</b> 0223 0.76 0924 1.29 SU 1444 0.67 2208 1.39	
<b>2</b> 0256 1.60 0852 0.15 FR 1547 1.79 2119 0.53		<b>10</b> 0352 0.76 1031 1.27 SA 1616 0.65 2315 1.37		<b>18</b> 0332 1.47 0938 0.34 SU 1619 1.65 2204 0.67		<b>26</b> 0338 0.67 1048 1.39 MO 1606 0.71 2309 1.43	
<b>3</b> 0335 1.60 0937 0.12 SA 1635 1.76 2202 0.56		<b>11</b> 0510 0.68 1143 1.33 SU 1730 0.65		<b>19</b> 0406 1.45 1009 0.36 MO 1655 1.61 2237 0.70		<b>27</b> 0450 0.53 1200 1.54 TU 1728 0.71 ○	
<b>4</b> 0416 1.57 1023 0.15 SU 1723 1.69 ● 2245 0.61		<b>12</b> 0008 1.40 0606 0.58 MO 1243 1.43 ● 1828 0.64		<b>20</b> 0441 1.41 1039 0.38 TU 1733 1.56 ● 2311 0.74		<b>28</b> 0003 1.48 0551 0.39 WE 1300 1.69 1832 0.69	
<b>5</b> 0459 1.52 1107 0.21 MO 1814 1.60 2329 0.66		<b>13</b> 0051 1.43 0649 0.49 TU 1332 1.52 1914 0.63		<b>21</b> 0516 1.37 1110 0.42 WE 1816 1.50 2345 0.78		<b>29</b> 0054 1.53 0645 0.26 TH 1354 1.81 1925 0.67	
<b>6</b> 0545 1.45 1153 0.30 TU 1910 1.51		<b>14</b> 0128 1.45 0726 0.42 WE 1412 1.59 1951 0.63		<b>22</b> 0559 1.32 1146 0.46 TH 1905 1.44		<b>30</b> 0141 1.57 0735 0.18 FR 1445 1.87 2013 0.66	
<b>7</b> 0015 0.71 0640 1.37 WE 1242 0.41 2010 1.43		<b>15</b> 0159 1.47 0800 0.37 TH 1445 1.64 2025 0.63		<b>23</b> 0025 0.80 0651 1.28 FR 1231 0.52 2001 1.40			
<b>8</b> 0110 0.76 0748 1.29 TH 1340 0.51 2113 1.37		<b>16</b> 0230 1.48 0832 0.34 FR 1516 1.67 2058 0.64		<b>24</b> 0116 0.80 0800 1.26 SA 1330 0.60 2104 1.38			

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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0226 1.60 0825 0.15 SA 1532 1.87 2059 0.65		<b>9</b> 0328 0.71 1022 1.33 SU 1537 0.81 2229 1.38		<b>17</b> 0303 1.47 0905 0.39 MO 1557 1.71 2139 0.75		<b>25</b> 0303 0.56 1030 1.51 TU 1535 0.86 2218 1.46	
<b>2</b> 0311 1.59 0914 0.16 SU 1620 1.82 2144 0.66		<b>10</b> 0434 0.64 1128 1.40 MO 1654 0.84 2319 1.38		<b>18</b> 0340 1.45 0936 0.41 TU 1633 1.67 2213 0.76		<b>26</b> 0413 0.44 1138 1.64 WE 1655 0.87 ○ 2318 1.49	
<b>3</b> 0356 1.57 1001 0.22 MO 1709 1.74 2229 0.67		<b>11</b> 0526 0.57 1223 1.50 TU 1756 0.83		<b>19</b> 0417 1.42 1007 0.44 WE 1711 1.63 2246 0.77		<b>27</b> 0516 0.33 1240 1.76 TH 1803 0.85	
<b>4</b> 0443 1.51 1048 0.31 TU 1759 1.65 ● 2315 0.69		<b>12</b> 0002 1.39 0608 0.50 WE 1309 1.59 ● 1843 0.81		<b>20</b> 0457 1.39 1040 0.48 TH 1751 1.58 ● 2322 0.77		<b>28</b> 0016 1.53 0615 0.24 FR 1335 1.85 1900 0.81	
<b>5</b> 0533 1.44 1135 0.42 WE 1851 1.56		<b>13</b> 0041 1.42 0646 0.44 TH 1346 1.66 1921 0.79		<b>21</b> 0542 1.36 1119 0.53 FR 1835 1.53		<b>29</b> 0110 1.57 0710 0.20 SA 1428 1.89 1950 0.77	
<b>6</b> 0004 0.71 0633 1.36 TH 1223 0.53 1945 1.48		<b>14</b> 0116 1.44 0722 0.40 FR 1418 1.70 1956 0.77		<b>22</b> 0003 0.75 0638 1.34 SA 1208 0.61 1925 1.49		<b>30</b> 0200 1.59 0802 0.20 SU 1517 1.87 2039 0.74	
<b>7</b> 0101 0.74 0750 1.31 FR 1316 0.65 2040 1.43		<b>15</b> 0152 1.46 0758 0.38 SA 1450 1.73 2030 0.75		<b>23</b> 0054 0.72 0749 1.34 SU 1306 0.70 2019 1.46		<b>31</b> 0250 1.59 0853 0.24 MO 1605 1.83 2127 0.71	
<b>8</b> 0212 0.74 0909 1.29 SA 1421 0.75 2135 1.39		<b>16</b> 0228 1.47 0831 0.38 SU 1522 1.73 2105 0.75		<b>24</b> 0155 0.65 0911 1.40 MO 1416 0.80 2118 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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0339 1.56 TU 0943 0.32 1653 1.76 2215 0.69		<b>9</b> 0439 0.57 1151 1.52 WE 1709 0.97 2307 1.37		<b>17</b> 0400 1.44 0942 0.47 TH 1651 1.67 2228 0.74		<b>25</b> 0450 0.31 1219 1.74 FR 1735 0.93 ○ 2345 1.51	
<b>2</b> 0430 1.51 1030 0.41 WE 1740 1.69 ● 2305 0.69		<b>10</b> 0526 0.51 1236 1.59 TH 1803 0.94 ● 2353 1.39		<b>18</b> 0443 1.42 1020 0.52 FR 1728 1.63 ● 2306 0.70		<b>26</b> 0553 0.27 1317 1.79 SA 1836 0.88	
<b>3</b> 0524 1.44 1117 0.52 TH 1827 1.61 2357 0.68		<b>11</b> 0608 0.47 1315 1.65 FR 1847 0.91		<b>19</b> 0531 1.41 1104 0.59 SA 1807 1.59 2348 0.65		<b>27</b> 0046 1.54 0651 0.25 SU 1411 1.82 1930 0.81	
<b>4</b> 0630 1.38 1202 0.63 FR 1913 1.54		<b>12</b> 0037 1.41 0648 0.43 SA 1351 1.70 1927 0.87		<b>20</b> 0630 1.41 1154 0.68 SU 1850 1.55		<b>28</b> 0143 1.56 0745 0.26 MO 1501 1.82 2024 0.75	
<b>5</b> 0050 0.68 0744 1.35 SA 1250 0.74 1959 1.48		<b>13</b> 0119 1.44 0727 0.41 SU 1426 1.72 2004 0.84		<b>21</b> 0037 0.59 0740 1.43 MO 1251 0.78 1939 1.51		<b>29</b> 0235 1.56 0838 0.31 TU 1548 1.79 2115 0.69	
<b>6</b> 0147 0.68 0852 1.35 SU 1344 0.84 2045 1.42		<b>14</b> 0200 1.46 0802 0.41 MO 1501 1.73 2040 0.81		<b>22</b> 0131 0.52 0856 1.49 TU 1355 0.88 2034 1.48		<b>30</b> 0327 1.54 0927 0.38 WE 1632 1.75 2206 0.65	
<b>7</b> 0246 0.65 0957 1.38 MO 1447 0.92 2132 1.39		<b>15</b> 0240 1.46 0836 0.42 TU 1538 1.72 2116 0.79		<b>23</b> 0234 0.45 1008 1.57 WE 1507 0.95 2134 1.47			
<b>8</b> 0345 0.62 1058 1.44 TU 1600 0.96 2220 1.37		<b>16</b> 0319 1.45 0909 0.44 WE 1615 1.70 2152 0.77		<b>24</b> 0342 0.38 1116 1.66 TH 1624 0.96 2239 1.48			

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

**JULY - 2021**

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0419 1.50 1013 0.47 TH 1714 1.69 2254 0.62		<b>9</b> 0440 0.52 1157 1.52 FR 1717 1.01 2306 1.35		<b>17</b> 0434 1.48 1012 0.54 SA 1703 1.64 ● 2252 0.55		<b>25</b> 0541 0.31 1300 1.68 SU 1819 0.85	
<b>2</b> 0515 1.45 1056 0.57 FR 1753 1.63 ● 2340 0.60		<b>10</b> 0531 0.48 1242 1.58 SA 1812 0.96 ●		<b>18</b> 0524 1.48 1058 0.62 SU 1740 1.60 2335 0.49		<b>26</b> 0031 1.48 0641 0.30 MO 1354 1.72 1919 0.76	
<b>3</b> 0615 1.41 1137 0.67 SA 1830 1.56		<b>11</b> 0000 1.37 0617 0.45 SU 1324 1.63 1857 0.91		<b>19</b> 0621 1.48 1145 0.71 MO 1819 1.56		<b>27</b> 0130 1.52 0735 0.31 TU 1443 1.73 2014 0.67	
<b>4</b> 0023 0.59 0718 1.38 SU 1219 0.77 1906 1.49		<b>12</b> 0050 1.40 0700 0.42 MO 1403 1.67 1939 0.85		<b>20</b> 0020 0.44 0727 1.49 TU 1237 0.81 1905 1.52		<b>28</b> 0226 1.53 0825 0.35 WE 1526 1.73 2104 0.60	
<b>5</b> 0107 0.59 0817 1.38 MO 1305 0.86 1945 1.44		<b>13</b> 0137 1.43 0737 0.41 TU 1441 1.69 2018 0.80		<b>21</b> 0111 0.40 0836 1.51 WE 1333 0.90 1959 1.48		<b>29</b> 0317 1.53 0910 0.42 TH 1604 1.70 2150 0.54	
<b>6</b> 0154 0.59 0915 1.39 TU 1358 0.95 2028 1.39		<b>14</b> 0221 1.45 0814 0.41 WE 1518 1.70 2057 0.74		<b>22</b> 0209 0.38 0946 1.54 TH 1440 0.96 2101 1.45		<b>30</b> 0408 1.51 0952 0.49 FR 1638 1.65 2231 0.51	
<b>7</b> 0246 0.58 1012 1.42 WE 1500 1.01 2116 1.35		<b>15</b> 0304 1.47 0850 0.43 TH 1554 1.70 2134 0.68		<b>23</b> 0318 0.36 1055 1.58 FR 1557 0.97 2213 1.44		<b>31</b> 0457 1.48 1030 0.57 SA 1710 1.60 ● 2309 0.49	
<b>8</b> 0344 0.55 1106 1.47 TH 1612 1.02 2210 1.34		<b>16</b> 0348 1.48 0929 0.47 FR 1629 1.68 2213 0.61		<b>24</b> 0432 0.34 1200 1.63 SA 1713 0.93 ○ 2326 1.45			

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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

## AUGUST - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0545 1.45 1109 0.66 SU 1741 1.54 2345 0.49		<b>9</b> 0546 0.46 1254 1.53 MO 1829 0.88		<b>17</b> 0610 1.54 1133 0.69 TU 1753 1.54		<b>25</b> 0126 1.49 0724 0.37 WE 1416 1.63 2000 0.54	
<b>2</b> 0635 1.42 1147 0.74 MO 1812 1.48		<b>10</b> 0027 1.36 0633 0.42 TU 1336 1.59 1915 0.78		<b>18</b> 0001 0.32 0710 1.51 WE 1220 0.78 1838 1.48		<b>26</b> 0219 1.53 0810 0.40 TH 1454 1.64 2043 0.47	
<b>3</b> 0022 0.49 0726 1.39 TU 1228 0.82 1847 1.42		<b>11</b> 0119 1.41 0715 0.40 WE 1415 1.64 1955 0.69		<b>19</b> 0050 0.33 0816 1.47 TH 1313 0.86 1933 1.43		<b>27</b> 0307 1.55 0851 0.45 FR 1528 1.62 2121 0.42	
<b>4</b> 0101 0.51 0818 1.38 WE 1313 0.90 1929 1.37		<b>12</b> 0208 1.47 0756 0.41 TH 1453 1.66 2034 0.59		<b>20</b> 0147 0.36 0927 1.46 FR 1415 0.91 2042 1.38		<b>28</b> 0350 1.55 0929 0.50 SA 1558 1.58 2157 0.39	
<b>5</b> 0147 0.52 0914 1.37 TH 1406 0.97 2018 1.32		<b>13</b> 0254 1.52 0837 0.43 FR 1528 1.67 2114 0.50		<b>21</b> 0300 0.39 1036 1.47 SA 1537 0.92 2201 1.36		<b>29</b> 0430 1.53 1004 0.56 SU 1626 1.54 2230 0.38	
<b>6</b> 0242 0.53 1012 1.39 FR 1512 1.01 2117 1.29		<b>14</b> 0340 1.56 0919 0.47 SA 1602 1.65 2154 0.42		<b>22</b> 0422 0.40 1142 1.50 SU 1701 0.85 ○ 2318 1.38		<b>30</b> 0508 1.50 1039 0.63 MO 1655 1.50 ● 2304 0.39	
<b>7</b> 0346 0.52 1112 1.42 SA 1627 1.00 2223 1.29		<b>15</b> 0426 1.57 1003 0.53 SU 1637 1.62 2235 0.36		<b>23</b> 0533 0.38 1241 1.56 MO 1812 0.75		<b>31</b> 0545 1.46 1115 0.69 TU 1727 1.45 2339 0.41	
<b>8</b> 0451 0.49 1206 1.47 SU 1734 0.95 ● 2328 1.31		<b>16</b> 0515 1.57 1048 0.61 MO 1713 1.58 ● 2317 0.33		<b>24</b> 0026 1.43 0633 0.37 TU 1332 1.61 1910 0.64			

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

## SEPTEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0628 1.42 1153 0.76 WE 1801 1.39		<b>9</b> 0105 1.45 0655 0.44 TH 1343 1.57 1925 0.52		<b>17</b> 0030 0.33 0757 1.43 FR 1253 0.79 1919 1.35		<b>25</b> 0250 1.61 0829 0.50 SA 1448 1.53 2045 0.32	
<b>2</b> 0015 0.44 0716 1.37 TH 1233 0.83 1842 1.34		<b>10</b> 0157 1.55 0740 0.44 FR 1421 1.60 2005 0.40		<b>18</b> 0130 0.40 0906 1.38 SA 1359 0.83 2037 1.30		<b>26</b> 0327 1.62 0903 0.53 SU 1517 1.51 2118 0.30	
<b>3</b> 0056 0.47 0813 1.34 FR 1319 0.89 1931 1.28		<b>11</b> 0244 1.63 0823 0.45 SA 1458 1.61 2046 0.30		<b>19</b> 0245 0.47 1015 1.38 SU 1528 0.81 2202 1.30		<b>27</b> 0359 1.60 0937 0.57 MO 1546 1.49 2151 0.31	
<b>4</b> 0144 0.51 0915 1.32 SA 1416 0.94 2034 1.24		<b>12</b> 0330 1.67 0907 0.49 SU 1533 1.61 2129 0.24		<b>20</b> 0411 0.49 1118 1.41 MO 1655 0.73 2318 1.34		<b>28</b> 0430 1.57 1011 0.60 TU 1617 1.45 2225 0.33	
<b>5</b> 0245 0.53 1022 1.33 SU 1530 0.94 2147 1.23		<b>13</b> 0415 1.68 0950 0.53 MO 1610 1.58 2212 0.21		<b>21</b> 0524 0.48 1215 1.46 TU 1801 0.62 ○		<b>29</b> 0504 1.53 1045 0.65 WE 1650 1.41 ● 2259 0.36	
<b>6</b> 0358 0.53 1124 1.38 MO 1653 0.88 2302 1.27		<b>14</b> 0503 1.64 1033 0.59 TU 1648 1.54 ● 2256 0.22		<b>22</b> 0025 1.42 0622 0.47 WE 1302 1.50 1852 0.50		<b>30</b> 0544 1.47 1121 0.70 TH 1726 1.35 2332 0.40	
<b>7</b> 0509 0.50 1216 1.44 TU 1757 0.78 ●		<b>15</b> 0554 1.58 1116 0.66 WE 1730 1.49 2342 0.26		<b>23</b> 0121 1.51 0711 0.47 TH 1343 1.53 1934 0.41			
<b>8</b> 0009 1.35 0607 0.46 WE 1301 1.51 1844 0.65		<b>16</b> 0651 1.50 1202 0.73 TH 1819 1.42		<b>24</b> 0210 1.57 0752 0.48 FR 1417 1.54 2011 0.35			

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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

## OCTOBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0628 1.40 FR 1806 1.30		<b>9</b> 0143 1.66 0721 0.52 SA 1345 1.54 1933 0.22		<b>17</b> 0112 0.48 0843 1.36 SU 1351 0.73 2045 1.25		<b>25</b> 0300 1.67 0838 0.58 MO 1441 1.45 2043 0.26	
<b>2</b> 0009 0.45 0721 1.34 SA 1239 0.81 1857 1.24		<b>10</b> 0230 1.75 0806 0.52 SU 1426 1.56 2017 0.15		<b>18</b> 0227 0.57 0945 1.34 MO 1521 0.69 2207 1.28		<b>26</b> 0330 1.66 0912 0.59 TU 1514 1.44 2116 0.28	
<b>3</b> 0053 0.50 0823 1.30 SU 1330 0.85 2002 1.20		<b>11</b> 0316 1.78 0849 0.53 MO 1505 1.56 2103 0.12		<b>19</b> 0350 0.62 1045 1.35 TU 1640 0.61 2318 1.35		<b>27</b> 0400 1.63 0945 0.61 WE 1547 1.41 2149 0.31	
<b>4</b> 0150 0.55 0930 1.29 MO 1439 0.84 2122 1.20		<b>12</b> 0402 1.76 0932 0.55 TU 1545 1.54 2149 0.13		<b>20</b> 0505 0.62 1139 1.38 WE 1738 0.50		<b>28</b> 0434 1.58 1019 0.64 TH 1622 1.37 2221 0.35	
<b>5</b> 0302 0.59 1034 1.32 TU 1600 0.77 2244 1.27		<b>13</b> 0449 1.69 1016 0.59 WE 1629 1.50 ☉ 2235 0.19		<b>21</b> 0019 1.45 0605 0.61 TH 1225 1.41 ☉ 1823 0.41		<b>29</b> 0512 1.52 1053 0.67 FR 1659 1.32 ☉ 2253 0.39	
<b>6</b> 0424 0.59 1130 1.37 WE 1712 0.64 ● 2352 1.40		<b>14</b> 0539 1.60 1100 0.63 TH 1715 1.44 2322 0.27		<b>22</b> 0110 1.55 0652 0.59 FR 1304 1.43 1901 0.34		<b>30</b> 0554 1.45 1128 0.71 SA 1741 1.27 2329 0.45	
<b>7</b> 0538 0.56 1219 1.44 TH 1804 0.49		<b>15</b> 0634 1.50 1146 0.67 FR 1808 1.36		<b>23</b> 0152 1.62 0730 0.58 SA 1338 1.44 1936 0.29		<b>31</b> 0641 1.39 1206 0.73 SU 1832 1.22	
<b>8</b> 0050 1.54 0633 0.54 FR 1304 1.50 1849 0.34		<b>16</b> 0014 0.38 0737 1.41 SA 1241 0.71 1917 1.29		<b>24</b> 0228 1.66 0804 0.58 SU 1410 1.45 2010 0.27			

Port Phillip

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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

## NOVEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0012 0.51 0735 1.33 MO 1255 0.74 1939 1.20		<b>9</b> 0302 1.83 0830 0.59 TU 1442 1.53 2041 0.08		<b>17</b> 0313 0.74 1001 1.31 WE 1606 0.52 2306 1.38		<b>25</b> 0338 1.65 0923 0.63 TH 1524 1.38 2120 0.31	
<b>2</b> 0108 0.59 0836 1.31 TU 1358 0.70 2101 1.23		<b>10</b> 0348 1.79 0915 0.58 WE 1528 1.52 2130 0.13		<b>18</b> 0430 0.77 1053 1.31 TH 1701 0.44		<b>26</b> 0413 1.61 0957 0.63 FR 1600 1.35 2150 0.35	
<b>3</b> 0219 0.67 0938 1.31 WE 1510 0.62 2224 1.33		<b>11</b> 0436 1.71 1000 0.57 TH 1615 1.47 ● 2218 0.21		<b>19</b> 0002 1.47 0536 0.75 FR 1140 1.32 ○ 1746 0.37		<b>27</b> 0449 1.56 1030 0.64 SA 1639 1.31 ● 2222 0.39	
<b>4</b> 0341 0.71 1037 1.34 TH 1622 0.49 2333 1.47		<b>12</b> 0525 1.62 1047 0.58 FR 1705 1.41 2307 0.32		<b>20</b> 0050 1.56 0625 0.73 SA 1221 1.34 1826 0.32		<b>28</b> 0528 1.51 1104 0.64 SU 1722 1.27 2259 0.46	
<b>5</b> 0503 0.70 1132 1.39 FR 1722 0.34 ●		<b>13</b> 0617 1.52 1138 0.60 SA 1804 1.33 2358 0.44		<b>21</b> 0129 1.63 0704 0.70 SU 1300 1.36 1903 0.28		<b>29</b> 0609 1.45 1143 0.63 MO 1815 1.25 2344 0.54	
<b>6</b> 0032 1.63 0608 0.67 SA 1223 1.44 1815 0.21		<b>14</b> 0713 1.44 1235 0.61 SU 1922 1.27		<b>22</b> 0203 1.66 0740 0.67 MO 1335 1.38 1939 0.26		<b>30</b> 0654 1.40 1229 0.60 TU 1922 1.25	
<b>7</b> 0125 1.75 0659 0.64 SU 1311 1.49 1903 0.12		<b>15</b> 0053 0.56 0810 1.38 MO 1344 0.61 2046 1.26		<b>23</b> 0234 1.68 0815 0.64 TU 1411 1.40 2015 0.26			
<b>8</b> 0215 1.82 0745 0.61 MO 1357 1.52 1952 0.07		<b>16</b> 0158 0.67 0906 1.33 TU 1458 0.58 2200 1.30		<b>24</b> 0305 1.67 0848 0.63 WE 1447 1.40 2048 0.28			

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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

## DECEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0039 0.64 0745 1.36 WE 1324 0.54 2041 1.29		<b>9</b> 0337 1.77 0902 0.57 TH 1515 1.50 2116 0.16		<b>17</b> 0334 0.86 0957 1.26 FR 1614 0.42 2332 1.44		<b>25</b> 0356 1.62 0940 0.60 SA 1545 1.35 2130 0.34	
<b>2</b> 0145 0.74 0842 1.33 TH 1429 0.46 2200 1.39		<b>10</b> 0424 1.71 0951 0.54 FR 1605 1.46 2205 0.25		<b>18</b> 0448 0.87 1047 1.25 SA 1705 0.38		<b>26</b> 0430 1.59 1015 0.57 SU 1626 1.34 2203 0.39	
<b>3</b> 0303 0.80 0942 1.33 FR 1537 0.36 2309 1.52		<b>11</b> 0510 1.64 1041 0.51 SA 1700 1.40 ● 2253 0.36		<b>19</b> 0021 1.50 0547 0.84 SU 1136 1.27 ○ 1752 0.34		<b>27</b> 0505 1.55 1049 0.53 MO 1711 1.33 ● 2244 0.46	
<b>4</b> 0426 0.82 1044 1.35 SA 1644 0.25 ●		<b>12</b> 0556 1.56 1132 0.50 SU 1803 1.34 2340 0.48		<b>20</b> 0102 1.56 0634 0.79 MO 1222 1.29 1834 0.30		<b>28</b> 0541 1.51 1127 0.49 TU 1803 1.32 2329 0.56	
<b>5</b> 0011 1.65 0537 0.79 SU 1144 1.40 1745 0.15		<b>13</b> 0642 1.48 1225 0.49 MO 1917 1.30		<b>21</b> 0139 1.60 0715 0.74 TU 1304 1.32 1915 0.28		<b>29</b> 0619 1.46 1209 0.44 WE 1905 1.33	
<b>6</b> 0107 1.75 0634 0.74 MO 1241 1.44 1841 0.09		<b>14</b> 0029 0.60 0729 1.41 TU 1319 0.49 2029 1.29		<b>22</b> 0213 1.63 0752 0.70 WE 1346 1.35 1952 0.27		<b>30</b> 0021 0.66 0703 1.41 TH 1258 0.38 2017 1.36	
<b>7</b> 0159 1.80 0725 0.68 TU 1334 1.49 1933 0.07		<b>15</b> 0121 0.72 0816 1.35 WE 1416 0.48 2134 1.31		<b>23</b> 0246 1.64 0830 0.66 TH 1426 1.36 2027 0.28		<b>31</b> 0120 0.77 0754 1.37 FR 1354 0.33 2130 1.43	
<b>8</b> 0248 1.81 0814 0.62 WE 1425 1.51 2026 0.09		<b>16</b> 0223 0.81 0906 1.30 TH 1516 0.46 2236 1.37		<b>24</b> 0321 1.64 0905 0.63 FR 1505 1.36 2059 0.31			

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

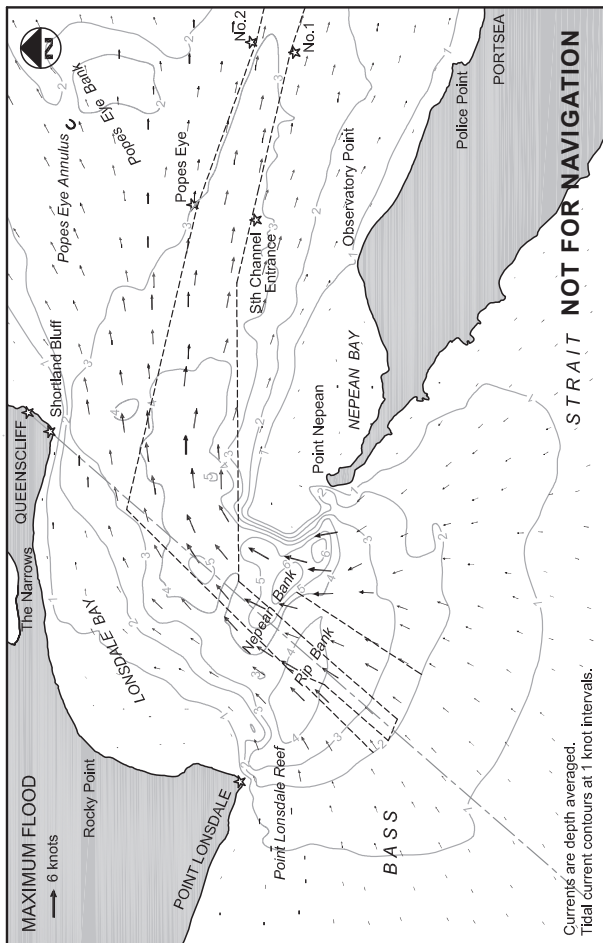
# The Rip Tidal Datums - Rip Bank

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

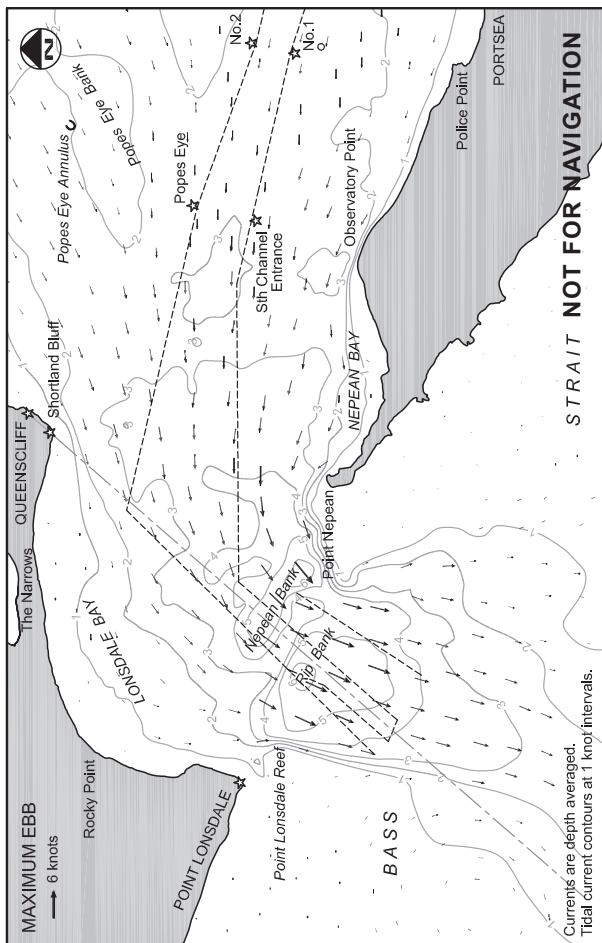
<b>AHD metres</b>	<b>Predominantly semi-diurnal tides</b>	<b>Chart Datum metres</b>
1.52	Highest Recorded Tide – 19/06/2004 Derived from Lorne (1993 – 2016)	2.98
1.41	Highest Astronomical Tide (HAT)	2.87
1.04	Mean High Water Springs (MHWS)	2.50
0.34	Mean High Water Neaps (MHWN)	1.80
<b>0.000</b>	<b>Australian 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

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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0107	2.22	1.62	<b>9</b>	0006	0.96	0.91	<b>17</b>	0236	2.24	1.48	<b>25</b>	0116	1.30	1.17
<b>FR</b>	0658	1.09	1.02	<b>SA</b>	0632	2.04	1.56	<b>SU</b>	0813	0.64	0.66	<b>MO</b>	0717	1.84	1.54
	1248	1.92	1.63		1230	0.38	0.37		1435	2.01	1.49		1326	0.67	0.59
	1838	0.44	0.38		2000	2.06	1.48		2019	0.34	0.39		2116	1.88	1.42
<b>2</b>	0148	2.26	1.62	<b>10</b>	0104	1.10	1.04	<b>18</b>	0315	2.20	1.47	<b>26</b>	0217	1.39	1.24
<b>SA</b>	0733	0.98	0.92	<b>SU</b>	0724	1.99	1.59	<b>MO</b>	0854	0.53	0.57	<b>TU</b>	0821	1.81	1.56
	1336	1.96	1.61		1323	0.38	0.36		1522	1.99	1.44		1422	0.71	0.62
	1922	0.39	0.35		2104	2.10	1.52		2102	0.42	0.46		2214	1.93	1.46
<b>3</b>	0229	2.28	1.60	<b>11</b>	0208	1.21	1.13	<b>19</b>	0350	2.15	1.47	<b>27</b>	0330	1.41	1.26
<b>SU</b>	0810	0.85	0.81	<b>MO</b>	0825	1.97	1.63	<b>TU</b>	0932	0.47	0.52	<b>WE</b>	0928	1.80	1.59
	1421	1.98	1.57		1423	0.39	0.37		1606	1.95	1.39		1528	0.71	0.61
	2006	0.37	0.36		2207	2.14	1.54		2144	0.53	0.55		2308	2.00	1.50
<b>4</b>	0310	2.28	1.58	<b>12</b>	0317	1.25	1.17	<b>20</b>	0423	2.09	1.47	<b>28</b>	0446	1.35	1.23
<b>MO</b>	0849	0.74	0.70	<b>TU</b>	0931	1.96	1.66	<b>WE</b>	1009	0.45	0.49	<b>TH</b>	1032	1.81	1.60
	1508	1.99	1.53		1532	0.39	0.38		1650	1.91	1.35		1634	0.65	0.57
	2051	0.41	0.41		2309	2.18	1.55		2224	0.67	0.67		2356	2.08	1.52
<b>5</b>	0350	2.25	1.55	<b>13</b>	0431	1.22	1.15	<b>21</b>	0453	2.03	1.48	<b>29</b>	0543	1.23	1.14
<b>TU</b>	0929	0.63	0.61	<b>WE</b>	1038	1.96	1.67	<b>TH</b>	1045	0.46	0.48	<b>FR</b>	1132	1.85	1.60
	1556	1.99	1.49		1642	0.36	0.37		1736	1.87	1.34		1730	0.56	0.50
	2137	0.50	0.51	●					2303	0.84	0.80	○			
<b>6</b>	0430	2.20	1.53	<b>14</b>	0008	2.22	1.54	<b>22</b>	0522	1.98	1.50	<b>30</b>	0041	2.14	1.53
<b>WE</b>	1011	0.53	0.52	<b>TH</b>	0541	1.11	1.06	<b>FR</b>	1120	0.49	0.49	<b>SA</b>	0627	1.07	1.02
●	1650	1.99	1.45		1144	1.98	1.65		1826	1.84	1.34		1227	1.90	1.58
	2224	0.63	0.63		1745	0.32	0.35		2343	1.00	0.94		1820	0.47	0.44
<b>7</b>	0509	2.15	1.53	<b>15</b>	0103	2.24	1.52	<b>23</b>	0553	1.93	1.52	<b>31</b>	0124	2.20	1.53
<b>TH</b>	1055	0.46	0.46	<b>FR</b>	0639	0.95	0.93	<b>SA</b>	1158	0.54	0.51	<b>SU</b>	0706	0.89	0.87
	1751	1.99	1.43		1247	2.01	1.61		1920	1.83	1.35		1319	1.96	1.55
	2313	0.79	0.78		1841	0.29	0.34						1907	0.41	0.40
<b>8</b>	0549	2.09	1.54	<b>16</b>	0152	2.25	1.50	<b>24</b>	0026	1.16	1.06				
<b>FR</b>	1141	0.40	0.41	<b>SA</b>	0729	0.78	0.78	<b>SU</b>	0629	1.88	1.53				
	1856	2.02	1.45		1344	2.02	1.55		1239	0.61	0.55				
					1932	0.30	0.35		2017	1.84	1.38				

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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

## FEBRUARY - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0206	2.23	1.52	<b>9</b>	0143	1.18	1.10	<b>17</b>	0317	2.08	1.43	<b>25</b>	0231	1.34	1.21
<b>MO</b>	0745	0.71	0.71	<b>TU</b>	0803	1.93	1.59	<b>WE</b>	0900	0.38	0.48	<b>TH</b>	0850	1.75	1.52
	1409	2.02	1.52		1401	0.45	0.45		1540	1.99	1.35		1444	0.77	0.69
	1954	0.39	0.40		2143	2.03	1.45		2120	0.57	0.61		2227	1.92	1.44
<b>2</b>	0247	2.24	1.51	<b>10</b>	0250	1.22	1.14	<b>18</b>	0346	2.05	1.45	<b>26</b>	0346	1.29	1.18
<b>TU</b>	0825	0.53	0.57	<b>WE</b>	0914	1.89	1.59	<b>TH</b>	0933	0.37	0.46	<b>FR</b>	1005	1.76	1.53
	1459	2.07	1.49		1513	0.50	0.50		1619	1.97	1.33		1600	0.73	0.65
	2040	0.43	0.45		2248	2.04	1.44		2156	0.69	0.71		2321	1.99	1.46
<b>3</b>	0327	2.23	1.50	<b>11</b>	0406	1.18	1.12	<b>19</b>	0414	2.02	1.47	<b>27</b>	0456	1.16	1.08
<b>WE</b>	0906	0.38	0.44	<b>TH</b>	1026	1.89	1.59	<b>FR</b>	1005	0.39	0.46	<b>SA</b>	1111	1.82	1.53
	1550	2.10	1.46		1627	0.51	0.51		1658	1.94	1.33		1706	0.65	0.58
	2125	0.51	0.54		2349	2.07	1.42		2231	0.83	0.83				
<b>4</b>	0406	2.20	1.50	<b>12</b>	0520	1.05	1.02	<b>20</b>	0441	1.98	1.49	<b>28</b>	0009	2.05	1.47
<b>TH</b>	0948	0.28	0.35	<b>FR</b>	1135	1.92	1.55	<b>SA</b>	1038	0.43	0.48	<b>SU</b>	0549	0.96	0.92
	1644	2.11	1.44		1732	0.47	0.49		1741	1.91	1.33		1211	1.92	1.52
	2212	0.64	0.66						2307	0.98	0.95		1802	0.56	0.52
<b>5</b>	0445	2.15	1.52	<b>13</b>	0042	2.10	1.41	<b>21</b>	0508	1.94	1.50				
<b>FR</b>	1032	0.23	0.30	<b>SA</b>	0619	0.86	0.88	<b>SU</b>	1114	0.49	0.52				
	1741	2.11	1.44		1237	1.95	1.51		1829	1.88	1.35				
	2259	0.79	0.78		1828	0.44	0.47		2346	1.12	1.06				
<b>6</b>	0524	2.10	1.53	<b>14</b>	0128	2.12	1.41	<b>22</b>	0540	1.90	1.51				
<b>SA</b>	1117	0.23	0.29	<b>SU</b>	0707	0.68	0.74	<b>MO</b>	1154	0.57	0.57				
	1839	2.09	1.46		1331	1.99	1.46		1923	1.86	1.36				
	2349	0.94	0.91		1917	0.42	0.46								
<b>7</b>	0607	2.04	1.55	<b>15</b>	0208	2.12	1.40	<b>23</b>	0031	1.24	1.14				
<b>SU</b>	1206	0.28	0.32	<b>MO</b>	0748	0.54	0.62	<b>TU</b>	0622	1.84	1.50				
	1938	2.07	1.45		1418	2.01	1.42		1240	0.66	0.62				
					2001	0.43	0.48		2022	1.85	1.39				
<b>8</b>	0043	1.08	1.02	<b>16</b>	0244	2.11	1.41	<b>24</b>	0126	1.32	1.20				
<b>MO</b>	0658	1.98	1.57	<b>TU</b>	0825	0.44	0.54	<b>WE</b>	0727	1.78	1.50				
	1259	0.36	0.38		1501	2.01	1.38		1335	0.74	0.67				
	2039	2.04	1.46		2042	0.48	0.53		2126	1.87	1.41				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0053	2.11	1.47	<b>9</b>	0025	1.01	0.96	<b>17</b>	0209	2.03	1.44	<b>25</b>	0053	1.21	1.11
	0634	0.73	0.74		0645	1.93	1.54		0753	0.39	0.49		0654	1.76	1.46
<b>MO</b>	1306	2.03	1.52	<b>TU</b>	1238	0.44	0.44	<b>WE</b>	1437	2.08	1.40	<b>TH</b>	1258	0.79	0.73
	1852	0.49	0.49		2013	1.97	1.43		2021	0.60	0.64		2036	1.87	1.43
<b>2</b>	0136	2.15	1.48	<b>10</b>	0122	1.08	1.01	<b>18</b>	0241	2.02	1.46	<b>26</b>	0152	1.21	1.10
	0716	0.50	0.55		0754	1.86	1.53		0825	0.35	0.45		0825	1.73	1.47
<b>TU</b>	1358	2.13	1.51	<b>WE</b>	1342	0.58	0.55	<b>TH</b>	1512	2.08	1.40	<b>FR</b>	1407	0.86	0.78
	1940	0.47	0.48		2117	1.93	1.41		2057	0.67	0.70		2141	1.89	1.45
<b>3</b>	0219	2.18	1.48	<b>11</b>	0227	1.10	1.03	<b>19</b>	0310	2.01	1.49	<b>27</b>	0258	1.15	1.05
	0758	0.30	0.38		0909	1.83	1.51		0855	0.35	0.43		0946	1.78	1.49
<b>WE</b>	1449	2.21	1.51	<b>TH</b>	1458	0.67	0.63	<b>FR</b>	1547	2.07	1.40	<b>SA</b>	1528	0.86	0.77
	2027	0.49	0.52		2223	1.92	1.40		2130	0.76	0.78		2239	1.93	1.47
<b>4</b>	0301	2.18	1.50	<b>12</b>	0341	1.05	1.00	<b>20</b>	0338	2.00	1.50	<b>28</b>	0407	1.01	0.93
	0840	0.15	0.25		1022	1.84	1.50		0926	0.36	0.43		1056	1.88	1.51
<b>TH</b>	1541	2.25	1.51	<b>FR</b>	1613	0.68	0.64	<b>SA</b>	1623	2.05	1.40	<b>SU</b>	1641	0.80	0.73
	2112	0.56	0.59		2321	1.94	1.39		2203	0.86	0.87		2329	1.99	1.49
<b>5</b>	0342	2.17	1.52	<b>13</b>	0456	0.92	0.91	<b>21</b>	0406	1.98	1.51	<b>29</b>	0507	0.80	0.76
	0924	0.08	0.19		1128	1.89	1.47		0959	0.41	0.46		1157	2.03	1.54
<b>FR</b>	1633	2.25	1.51	<b>SA</b>	1718	0.65	0.62	<b>SU</b>	1702	2.02	1.40	<b>MO</b>	1742	0.73	0.68
	2158	0.66	0.68						2238	0.97	0.96				
<b>6</b>	0423	2.14	1.54	<b>14</b>	0011	1.98	1.39	<b>22</b>	0434	1.94	1.51	<b>30</b>	0016	2.05	1.51
	1008	0.09	0.18		0554	0.75	0.78		1036	0.49	0.51		0559	0.55	0.56
<b>SA</b>	1725	2.20	1.49	<b>SU</b>	1226	1.96	1.45	<b>MO</b>	1745	1.97	1.41	<b>TU</b>	1253	2.18	1.58
	2244	0.78	0.78		1813	0.60	0.60		2316	1.07	1.03		1836	0.66	0.64
<b>7</b>	0505	2.09	1.55	<b>15</b>	0055	2.00	1.40	<b>23</b>	0507	1.89	1.50	<b>31</b>	0102	2.10	1.53
	1055	0.17	0.24		0640	0.59	0.65		1116	0.58	0.58		0645	0.31	0.36
<b>SU</b>	1819	2.13	1.48	<b>MO</b>	1316	2.02	1.44	<b>TU</b>	1834	1.92	1.41	<b>WE</b>	1345	2.31	1.61
	2333	0.90	0.88		1900	0.57	0.59						1925	0.62	0.63
<b>8</b>	0550	2.01	1.54	<b>16</b>	0133	2.02	1.42	<b>24</b>	0000	1.15	1.09				
	1144	0.29	0.33		0718	0.47	0.56		0548	1.83	1.48				
<b>MO</b>	1914	2.05	1.46	<b>TU</b>	1358	2.06	1.42	<b>WE</b>	1202	0.69	0.67				
					1943	0.57	0.60		1932	1.88	1.41				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0148	2.14	1.55	<b>9</b>	0205	0.96	0.88	<b>17</b>	0237	2.01	1.57	<b>25</b>	0221	0.98	0.88
	0731	0.13	0.20		0906	1.82	1.48		0820	0.39	0.42		0931	1.89	1.52
<b>TH</b>	1436	2.39	1.63	<b>FR</b>	1440	0.85	0.76	<b>SA</b>	1518	2.20	1.54	<b>SU</b>	1457	1.03	0.95
	2012	0.62	0.64		2147	1.88	1.45		2106	0.87	0.87		2151	1.95	1.55
<b>2</b>	0233	2.16	1.58	<b>10</b>	0313	0.91	0.85	<b>18</b>	0307	2.01	1.58	<b>26</b>	0324	0.84	0.76
	0816	0.03	0.10		1016	1.86	1.48		0852	0.41	0.43		1040	2.03	1.58
<b>FR</b>	1526	2.40	1.63	<b>SA</b>	1555	0.88	0.80	<b>SU</b>	1553	2.18	1.54	<b>MO</b>	1613	1.02	0.94
	2058	0.65	0.67		2243	1.89	1.45		2139	0.92	0.92		2244	1.99	1.59
<b>3</b>	0319	2.16	1.59	<b>11</b>	0423	0.81	0.78	<b>19</b>	0339	2.00	1.57	<b>27</b>	0427	0.64	0.60
	0901	0.02	0.09		1118	1.94	1.48		0927	0.46	0.46		1140	2.20	1.65
<b>SA</b>	1616	2.36	1.63	<b>SU</b>	1700	0.86	0.80	<b>MO</b>	1631	2.15	1.54	<b>TU</b>	1719	0.97	0.91
	2143	0.70	0.71		2331	1.91	1.46		2214	0.97	0.96		2335	2.05	1.62
<b>4</b>	0404	2.14	1.60	<b>12</b>	0521	0.68	0.68	<b>20</b>	0411	1.96	1.55	<b>28</b>	0524	0.42	0.41
	0948	0.09	0.14		1211	2.03	1.50		1005	0.54	0.53		1236	2.36	1.71
<b>SU</b>	1707	2.28	1.60	<b>MO</b>	1755	0.82	0.79	<b>TU</b>	1712	2.10	1.53	<b>WE</b>	1816	0.90	0.86
<b>5</b>	0450	2.08	1.58	<b>13</b>	0015	1.94	1.48	<b>21</b>	0447	1.91	1.53	<b>29</b>	0025	2.10	1.65
	1035	0.23	0.25		0607	0.57	0.59		1047	0.64	0.62		0616	0.23	0.24
<b>MO</b>	1757	2.17	1.57	<b>TU</b>	1256	2.10	1.51	<b>WE</b>	1758	2.04	1.52	<b>TH</b>	1328	2.47	1.76
	2318	0.85	0.82		1842	0.79	0.78		2338	1.07	1.00		1908	0.84	0.82
<b>6</b>	0540	1.99	1.56	<b>14</b>	0054	1.97	1.51	<b>22</b>	0532	1.85	1.51	<b>30</b>	0117	2.15	1.68
	1125	0.40	0.40		0644	0.48	0.52		1134	0.76	0.73		0706	0.09	0.12
<b>TU</b>	1849	2.06	1.52	<b>WE</b>	1335	2.15	1.52	<b>TH</b>	1850	1.98	1.51	<b>FR</b>	1419	2.52	1.77
					1923	0.78	0.78						1956	0.79	0.78
<b>7</b>	0009	0.92	0.85	<b>15</b>	0131	1.99	1.53	<b>23</b>	0027	1.09	0.99				
	0640	1.90	1.52		0718	0.43	0.47		0642	1.80	1.48				
<b>WE</b>	1220	0.59	0.55	<b>TH</b>	1411	2.18	1.53	<b>FR</b>	1230	0.89	0.83				
	1944	1.96	1.48		1959	0.79	0.80		1950	1.94	1.51				
<b>8</b>	0104	0.95	0.88	<b>16</b>	0205	2.00	1.56	<b>24</b>	0122	1.06	0.95				
	0752	1.83	1.49		0749	0.40	0.43		0811	1.80	1.48				
<b>TH</b>	1325	0.75	0.68	<b>FR</b>	1445	2.20	1.54	<b>SA</b>	1338	0.98	0.91				
	2045	1.90	1.46		2033	0.82	0.83		2053	1.93	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

## MAY - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0209	2.19	1.70	<b>9</b>	0238	0.82	0.72	<b>17</b>	0242	2.05	1.67	<b>25</b>	0248	0.70	0.62
<b>SA</b>	0754	0.05	0.08	<b>SU</b>	0959	1.95	1.53	<b>MO</b>	0825	0.49	0.47	<b>TU</b>	1020	2.21	1.69
	1510	2.51	1.78		1527	1.10	0.99		1530	2.32	1.70		1541	1.24	1.17
	2042	0.77	0.75		2156	1.90	1.56		2116	0.99	0.95		2200	2.06	1.72
<b>2</b>	0259	2.20	1.70	<b>10</b>	0342	0.78	0.70	<b>18</b>	0318	2.04	1.66	<b>26</b>	0350	0.55	0.50
<b>SU</b>	0842	0.09	0.11	<b>MO</b>	1057	2.03	1.56	<b>TU</b>	0903	0.53	0.51	<b>WE</b>	1120	2.36	1.77
	1559	2.44	1.75		1634	1.11	1.02		1608	2.28	1.68	<b>○</b>	1651	1.22	1.15
	2128	0.76	0.74		2246	1.92	1.58		2153	0.99	0.94		2256	2.10	1.76
<b>3</b>	0348	2.16	1.68	<b>11</b>	0441	0.71	0.66	<b>19</b>	0355	2.01	1.63	<b>27</b>	0452	0.40	0.37
<b>MO</b>	0931	0.21	0.21	<b>TU</b>	1147	2.11	1.60	<b>WE</b>	0943	0.61	0.58	<b>TH</b>	1216	2.48	1.83
	1647	2.34	1.71		1731	1.09	1.02		1648	2.23	1.66		1754	1.14	1.09
	2215	0.78	0.73		2331	1.95	1.61		2233	0.99	0.92		2353	2.15	1.79
<b>4</b>	0438	2.10	1.64	<b>12</b>	0529	0.64	0.60	<b>20</b>	0436	1.97	1.60	<b>28</b>	0550	0.26	0.26
<b>TU</b>	1019	0.37	0.36	<b>WE</b>	1231	2.19	1.63	<b>TH</b>	1027	0.72	0.69	<b>FR</b>	1310	2.56	1.85
<b>○</b>	1734	2.23	1.67	<b>●</b>	1820	1.06	1.01	<b>○</b>	1731	2.17	1.64		1849	1.05	1.01
	2303	0.80	0.73						2317	0.98	0.90				
<b>5</b>	0532	2.00	1.58	<b>13</b>	0013	1.98	1.64	<b>21</b>	0527	1.93	1.56	<b>29</b>	0051	2.20	1.80
<b>WE</b>	1110	0.56	0.52	<b>TH</b>	0609	0.58	0.55	<b>FR</b>	1115	0.85	0.81	<b>SA</b>	0645	0.19	0.19
	1821	2.12	1.62		1309	2.25	1.66		1817	2.11	1.63		1402	2.58	1.84
	2352	0.82	0.74		1901	1.03	0.99						1939	0.95	0.91
<b>6</b>	0634	1.92	1.54	<b>14</b>	0053	2.01	1.66	<b>22</b>	0004	0.96	0.86	<b>30</b>	0148	2.24	1.80
<b>TH</b>	1204	0.75	0.68	<b>FR</b>	0644	0.53	0.50	<b>SA</b>	0638	1.91	1.54	<b>SU</b>	0737	0.18	0.19
	1911	2.02	1.58		1344	2.29	1.67		1210	0.99	0.94		1453	2.55	1.83
					1937	1.01	0.98		1908	2.06	1.62		2026	0.87	0.83
<b>7</b>	0044	0.83	0.74	<b>15</b>	0130	2.03	1.68	<b>23</b>	0054	0.90	0.80	<b>31</b>	0242	2.24	1.78
<b>FR</b>	0744	1.88	1.50	<b>SA</b>	0716	0.50	0.47	<b>SU</b>	0800	1.95	1.55	<b>MO</b>	0827	0.24	0.25
	1305	0.92	0.82		1419	2.32	1.69		1314	1.12	1.06		1541	2.48	1.79
	2005	1.95	1.56		2010	1.00	0.97		2004	2.03	1.64		2113	0.80	0.75
<b>8</b>	0139	0.83	0.73	<b>16</b>	0207	2.05	1.68	<b>24</b>	0149	0.82	0.72				
<b>SA</b>	0854	1.89	1.50	<b>SU</b>	0750	0.48	0.46	<b>MO</b>	0914	2.06	1.61				
	1415	1.04	0.92		1453	2.33	1.70		1427	1.21	1.13				
	2102	1.91	1.55		2043	0.99	0.96		2103	2.03	1.67				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0335	2.20	1.73	<b>9</b>	0354	0.79	0.70	<b>17</b>	0343	2.09	1.68	<b>25</b>	0426	0.46	0.45
	0916	0.36	0.36		1117	2.16	1.67		0928	0.66	0.65		1156	2.48	1.81
<b>TU</b>	1627	2.40	1.76	<b>WE</b>	1700	1.35	1.25	<b>TH</b>	1629	2.34	1.72	<b>FR</b>	1729	1.32	1.25
	2159	0.76	0.70		2244	1.98	1.73		2212	0.90	0.84		2327	2.19	1.87
<b>2</b>	0426	2.13	1.67	<b>10</b>	0448	0.75	0.68	<b>18</b>	0430	2.06	1.64	<b>26</b>	0530	0.38	0.39
	1004	0.52	0.50		1202	2.23	1.71		1013	0.78	0.76		1252	2.52	1.81
<b>WE</b>	1709	2.30	1.72	<b>TH</b>	1754	1.32	1.23	<b>FR</b>	1708	2.29	1.70	<b>SA</b>	1829	1.19	1.13
<b>3</b>	2245	0.73	0.67		2331	2.01	1.75		2254	0.84	0.78				
<b>3</b>	0521	2.05	1.61	<b>11</b>	0533	0.70	0.64	<b>19</b>	0525	2.04	1.60	<b>27</b>	0031	2.23	1.86
	1053	0.70	0.65		1242	2.30	1.74		1101	0.92	0.89		0629	0.34	0.36
<b>TH</b>	1751	2.20	1.69	<b>FR</b>	1837	1.27	1.19	<b>SA</b>	1748	2.23	1.70	<b>SU</b>	1346	2.53	1.79
	2331	0.73	0.66						2339	0.79	0.73		1921	1.04	0.99
<b>4</b>	0621	1.99	1.56	<b>12</b>	0016	2.04	1.77	<b>20</b>	0632	2.06	1.59	<b>28</b>	0132	2.25	1.83
	1143	0.88	0.81		0612	0.65	0.59		1153	1.08	1.03		0723	0.33	0.37
<b>FR</b>	1833	2.11	1.66	<b>SA</b>	1319	2.35	1.76	<b>SU</b>	1831	2.18	1.71	<b>MO</b>	1435	2.52	1.77
					1914	1.21	1.14						2009	0.89	0.86
<b>5</b>	0017	0.74	0.66	<b>13</b>	0100	2.07	1.77	<b>21</b>	0027	0.73	0.67	<b>29</b>	0228	2.25	1.78
	0725	1.96	1.54		0649	0.61	0.55		0744	2.11	1.62		0813	0.39	0.42
<b>SA</b>	1238	1.05	0.95	<b>SU</b>	1355	2.39	1.78	<b>MO</b>	1252	1.23	1.16	<b>TU</b>	1521	2.48	1.75
	1919	2.03	1.65		1947	1.14	1.08		1920	2.14	1.73		2055	0.77	0.75
<b>6</b>	0105	0.76	0.66	<b>14</b>	0141	2.09	1.76	<b>22</b>	0119	0.66	0.62	<b>30</b>	0321	2.22	1.72
	0828	1.97	1.55		0726	0.57	0.53		0852	2.21	1.68		0901	0.48	0.51
<b>SU</b>	1339	1.20	1.07	<b>MO</b>	1432	2.41	1.78	<b>TU</b>	1358	1.34	1.26	<b>WE</b>	1603	2.41	1.73
	2010	1.98	1.65		2020	1.07	1.02		2018	2.12	1.77		2139	0.68	0.68
<b>7</b>	0156	0.79	0.68	<b>15</b>	0222	2.10	1.74	<b>23</b>	0216	0.60	0.56				
	0929	2.02	1.58		0805	0.57	0.53		0956	2.31	1.74				
<b>MO</b>	1447	1.30	1.17	<b>TU</b>	1510	2.40	1.77	<b>WE</b>	1508	1.40	1.32				
	2103	1.96	1.67		2054	1.01	0.96		2120	2.13	1.82				
<b>8</b>	0253	0.80	0.70	<b>16</b>	0302	2.10	1.71	<b>24</b>	0319	0.54	0.51				
	1026	2.08	1.62		0846	0.59	0.57		1057	2.41	1.80				
<b>TU</b>	1556	1.35	1.23	<b>WE</b>	1549	2.38	1.74	<b>TH</b>	1620	1.39	1.32				
	2155	1.96	1.70		2132	0.95	0.90		2223	2.15	1.86				

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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

## JULY - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b> TH	0412	2.17	1.65	<b>9</b> FR	0401	0.86	0.77	<b>17</b> SA 	0424	2.17	1.62	<b>25</b> SU	0515	0.52	0.55
	0948	0.61	0.62		1129	2.20	1.70		1001	0.79	0.80		1235	2.39	1.68
	1641	2.34	1.70		1721	1.49	1.38		1644	2.34	1.70		1809	1.18	1.15
	2221	0.64	0.64		2251	2.01	1.79		2230	0.63	0.65				
<b>2</b> FR 	0503	2.11	1.60	<b>10</b> SA 	0457	0.82	0.74	<b>18</b> SU	0520	2.18	1.60	<b>26</b> MO	0019	2.18	1.80
	1033	0.77	0.75		1212	2.27	1.72		1047	0.94	0.93		0616	0.48	0.52
	1717	2.26	1.69		1810	1.41	1.32		1721	2.29	1.71		1327	2.41	1.66
	2303	0.64	0.62		2343	2.03	1.80		2314	0.58	0.60		1903	0.98	0.98
<b>3</b> SA	0556	2.06	1.55	<b>11</b> SU	0544	0.75	0.68	<b>19</b> MO	0621	2.19	1.61	<b>27</b> TU	0121	2.22	1.75
	1118	0.94	0.89		1253	2.33	1.74		1137	1.10	1.07		0710	0.47	0.52
	1753	2.17	1.69		1847	1.30	1.24		1800	2.24	1.73		1414	2.41	1.65
	2344	0.67	0.63								1950		0.80	0.83	
<b>4</b> SU	0652	2.02	1.54	<b>12</b> MO	0033	2.07	1.79	<b>20</b> TU	0001	0.55	0.57	<b>28</b> WE	0216	2.23	1.69
	1205	1.11	1.04		0626	0.68	0.63		0724	2.22	1.63		0759	0.49	0.54
	1830	2.10	1.69		1332	2.38	1.75		1231	1.25	1.20		1456	2.40	1.64
					1921	1.18	1.13		1845	2.19	1.76		2033	0.66	0.71
<b>5</b> MO	0025	0.71	0.66	<b>13</b> TU	0120	2.10	1.77	<b>21</b> WE	0051	0.55	0.56	<b>29</b> TH	0306	2.22	1.64
	0749	2.02	1.55		0708	0.63	0.59		0827	2.26	1.67		0845	0.55	0.60
	1257	1.28	1.17		1411	2.41	1.75		1331	1.37	1.30		1534	2.36	1.65
	1912	2.04	1.70		1955	1.05	1.02		1942	2.15	1.80		2113	0.57	0.64
<b>6</b> TU	0110	0.77	0.69	<b>14</b> WE	0205	2.13	1.73	<b>22</b> TH	0148	0.56	0.56	<b>30</b> FR	0353	2.19	1.58
	0847	2.03	1.58		0750	0.60	0.58		0931	2.29	1.69		0928	0.65	0.69
	1355	1.42	1.28		1450	2.42	1.73		1437	1.44	1.36		1609	2.30	1.65
	2002	2.00	1.72		2031	0.92	0.91		2050	2.13	1.83		2152	0.53	0.60
<b>7</b> WE	0200	0.83	0.73	<b>15</b> TH	0249	2.15	1.70	<b>23</b> FR	0254	0.58	0.58	<b>31</b> SA 	0438	2.14	1.54
	0945	2.08	1.62		0833	0.62	0.62		1035	2.33	1.70		1009	0.78	0.80
	1501	1.51	1.37		1529	2.41	1.72		1550	1.44	1.36		1641	2.24	1.65
	2059	1.98	1.75		2109	0.81	0.81		2201	2.13	1.85		2229	0.55	0.60
<b>8</b> TH	0258	0.86	0.77	<b>16</b> FR	0335	2.16	1.66	<b>24</b> SA 	0406	0.56	0.57				
	1039	2.13	1.66		0916	0.68	0.69		1137	2.36	1.70				
	1615	1.53	1.40		1607	2.38	1.70		1704	1.35	1.29				
	2156	1.99	1.78		2148	0.71	0.72		2311	2.15	1.84				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0524	2.10	1.52	<b>9</b>	0517	0.82	0.74	<b>17</b>	0605	2.27	1.60	<b>25</b>	0110	2.17	1.63
<b>SU</b>	1050	0.94	0.93	<b>MO</b>	1223	2.24	1.66	<b>TU</b>	1121	1.06	1.05	<b>WE</b>	0656	0.57	0.61
	1711	2.17	1.66		1814	1.26	1.21		1736	2.21	1.70		1346	2.26	1.56
	2305	0.59	0.62						2336	0.41	0.47		1926	0.64	0.73
<b>2</b>	0611	2.06	1.51	<b>10</b>	0012	2.03	1.72	<b>18</b>	0703	2.24	1.61	<b>26</b>	0201	2.20	1.59
<b>MO</b>	1131	1.11	1.06	<b>TU</b>	0606	0.73	0.68	<b>WE</b>	1212	1.19	1.15	<b>TH</b>	0743	0.57	0.62
	1741	2.11	1.68		1305	2.30	1.66		1822	2.15	1.72		1426	2.26	1.56
	2343	0.66	0.66		1851	1.08	1.07						2006	0.52	0.62
<b>3</b>	0702	2.03	1.52	<b>11</b>	0103	2.09	1.69	<b>19</b>	0027	0.49	0.52	<b>27</b>	0247	2.21	1.55
<b>TU</b>	1214	1.27	1.19	<b>WE</b>	0651	0.66	0.63	<b>TH</b>	0803	2.20	1.60	<b>FR</b>	0827	0.60	0.65
	1815	2.06	1.69		1345	2.34	1.66		1309	1.29	1.23		1501	2.24	1.57
					1927	0.90	0.92		1922	2.09	1.73		2043	0.45	0.56
<b>4</b>	0022	0.74	0.71	<b>12</b>	0151	2.16	1.66	<b>20</b>	0125	0.58	0.59	<b>28</b>	0329	2.20	1.52
<b>WE</b>	0756	2.01	1.53	<b>TH</b>	0735	0.62	0.61	<b>FR</b>	0906	2.17	1.59	<b>SA</b>	0907	0.67	0.72
	1301	1.42	1.30		1425	2.36	1.65		1412	1.35	1.28		1534	2.20	1.59
	1858	2.00	1.69		2004	0.72	0.77		2036	2.05	1.74		2118	0.44	0.54
<b>5</b>	0107	0.83	0.76	<b>13</b>	0238	2.22	1.64	<b>21</b>	0235	0.65	0.66	<b>29</b>	0408	2.16	1.49
<b>TH</b>	0854	2.02	1.56	<b>FR</b>	0819	0.62	0.64	<b>SA</b>	1013	2.17	1.58	<b>SU</b>	0945	0.78	0.81
	1358	1.52	1.38		1504	2.36	1.65		1524	1.33	1.27		1604	2.16	1.61
	1959	1.96	1.71		2043	0.57	0.63		2152	2.04	1.73		2152	0.46	0.54
<b>6</b>	0202	0.89	0.81	<b>14</b>	0326	2.26	1.61	<b>22</b>	0352	0.68	0.68	<b>30</b>	0448	2.12	1.48
<b>FR</b>	0953	2.05	1.59	<b>SA</b>	0903	0.68	0.71	<b>SU</b>	1116	2.19	1.57	<b>MO</b>	1021	0.92	0.92
	1508	1.56	1.42		1542	2.34	1.65		1641	1.22	1.19		1631	2.11	1.62
	2109	1.93	1.73		2123	0.45	0.53		2305	2.06	1.71		2225	0.52	0.57
<b>7</b>	0310	0.92	0.83	<b>15</b>	0416	2.28	1.60	<b>23</b>	0503	0.65	0.66	<b>31</b>	0528	2.07	1.48
<b>SA</b>	1049	2.10	1.62	<b>SU</b>	0948	0.78	0.81	<b>MO</b>	1213	2.22	1.55	<b>TU</b>	1058	1.06	1.04
	1628	1.52	1.40		1619	2.31	1.66		1748	1.03	1.04		1659	2.06	1.62
	2216	1.94	1.74		2205	0.39	0.47						2300	0.60	0.62
<b>8</b>	0420	0.89	0.80	<b>16</b>	0509	2.28	1.59	<b>24</b>	0012	2.11	1.67				
<b>SU</b>	1139	2.17	1.64	<b>MO</b>	1033	0.92	0.93	<b>TU</b>	0603	0.61	0.63				
	1731	1.41	1.33		1657	2.27	1.68		1302	2.24	1.55				
	2317	1.97	1.73		2249	0.38	0.46		1841	0.82	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

## SEPTEMBER - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0612	2.03	1.48	<b>9</b>	0048	2.11	1.62	<b>17</b>	0008	0.49	0.51	<b>25</b>	0224	2.21	1.52
	1136	1.20	1.15		0633	0.71	0.67		0738	2.11	1.54		0807	0.68	0.72
<b>WE</b>	1728	2.01	1.62	<b>TH</b>	1313	2.21	1.60	<b>FR</b>	1251	1.13	1.07	<b>SA</b>	1426	2.10	1.55
	2338	0.69	0.69		1854	0.66	0.70		1919	1.98	1.61		2010	0.38	0.47
<b>2</b>	0702	1.98	1.48	<b>10</b>	0137	2.22	1.62	<b>18</b>	0108	0.64	0.63	<b>26</b>	0302	2.21	1.50
	1218	1.32	1.23		0720	0.66	0.66		0841	2.04	1.52		0845	0.72	0.76
<b>TH</b>	1807	1.95	1.61	<b>FR</b>	1354	2.24	1.60	<b>SA</b>	1352	1.15	1.08	<b>SU</b>	1458	2.08	1.57
					1935	0.46	0.53		2036	1.93	1.60		2042	0.38	0.45
<b>3</b>	0021	0.80	0.76	<b>11</b>	0226	2.31	1.62	<b>19</b>	0220	0.75	0.72	<b>27</b>	0337	2.18	1.49
	0758	1.95	1.50		0805	0.65	0.67		0946	2.01	1.50		0920	0.80	0.83
<b>FR</b>	1309	1.40	1.29	<b>SA</b>	1435	2.26	1.61	<b>SU</b>	1501	1.12	1.06	<b>MO</b>	1528	2.06	1.58
	1907	1.88	1.60		2016	0.30	0.39		2152	1.94	1.59		2114	0.41	0.47
<b>4</b>	0113	0.89	0.82	<b>12</b>	0314	2.37	1.62	<b>20</b>	0338	0.80	0.75	<b>28</b>	0413	2.15	1.49
	0901	1.95	1.52		0849	0.69	0.72		1048	2.02	1.49		0954	0.90	0.91
<b>SA</b>	1410	1.43	1.30	<b>SU</b>	1516	2.26	1.63	<b>MO</b>	1616	1.00	0.97	<b>TU</b>	1556	2.03	1.58
	2031	1.84	1.61		2058	0.21	0.31		2302	1.99	1.58		2147	0.47	0.51
<b>5</b>	0221	0.95	0.85	<b>13</b>	0404	2.38	1.62	<b>21</b>	0449	0.78	0.74	<b>29</b>	0449	2.10	1.49
	1003	1.98	1.54		0934	0.76	0.79		1142	2.04	1.49		1029	1.00	0.99
<b>SU</b>	1522	1.40	1.28	<b>MO</b>	1557	2.24	1.64	<b>TU</b>	1722	0.83	0.84	<b>WE</b>	1625	1.99	1.57
	2149	1.85	1.62		2142	0.19	0.28	<b>○</b>				<b>●</b>	2221	0.55	0.56
<b>6</b>	0341	0.94	0.84	<b>14</b>	0455	2.35	1.61	<b>22</b>	0004	2.07	1.57	<b>30</b>	0529	2.05	1.49
	1059	2.04	1.56		1019	0.86	0.88		0549	0.73	0.71		1105	1.09	1.06
<b>MO</b>	1635	1.28	1.20	<b>TU</b>	1638	2.20	1.64	<b>WE</b>	1229	2.07	1.50	<b>TH</b>	1656	1.94	1.55
	2256	1.91	1.62	<b>●</b>	2227	0.25	0.32		1814	0.65	0.70		2259	0.65	0.64
<b>7</b>	0449	0.87	0.78	<b>15</b>	0547	2.28	1.60	<b>23</b>	0057	2.14	1.56				
	1147	2.11	1.58		1106	0.96	0.96		0640	0.69	0.69				
<b>TU</b>	1730	1.10	1.06	<b>WE</b>	1721	2.13	1.64	<b>TH</b>	1312	2.09	1.51				
<b>●</b>	2355	2.00	1.61		2315	0.35	0.40		1857	0.51	0.58				
<b>8</b>	0544	0.79	0.72	<b>16</b>	0641	2.19	1.58	<b>24</b>	0143	2.19	1.54				
	1231	2.17	1.59		1157	1.06	1.03		0726	0.67	0.69				
<b>WE</b>	1814	0.89	0.88	<b>TH</b>	1812	2.06	1.63	<b>FR</b>	1351	2.10	1.53				
									1935	0.42	0.51				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0613	1.99	1.48	<b>9</b>	0121	2.32	1.66	<b>17</b>	0053	0.73	0.66	<b>25</b>	0234	2.22	1.56
	1147	1.16	1.10		0703	0.76	0.74		0811	1.96	1.51		0823	0.82	0.82
<b>FR</b>	1736	1.87	1.52	<b>SA</b>	1320	2.13	1.60	<b>SU</b>	1334	0.91	0.83	<b>MO</b>	1425	1.99	1.57
	2343	0.77	0.73		1905	0.23	0.28		2037	1.86	1.50		2009	0.38	0.39
<b>2</b>	0706	1.93	1.48	<b>10</b>	0210	2.41	1.68	<b>18</b>	0204	0.86	0.77	<b>26</b>	0308	2.21	1.55
	1235	1.21	1.12		0749	0.73	0.73		0912	1.91	1.49		0857	0.85	0.85
<b>SA</b>	1838	1.80	1.50	<b>SU</b>	1406	2.17	1.62	<b>MO</b>	1437	0.87	0.80	<b>TU</b>	1457	1.98	1.58
					1950	0.11	0.16		2149	1.90	1.51		2041	0.40	0.41
<b>3</b>	0035	0.88	0.82	<b>11</b>	0259	2.45	1.69	<b>19</b>	0320	0.92	0.83	<b>27</b>	0342	2.18	1.56
	0807	1.90	1.49		0835	0.72	0.73		1011	1.90	1.49		0930	0.90	0.89
<b>SU</b>	1331	1.23	1.11	<b>MO</b>	1452	2.18	1.63	<b>TU</b>	1545	0.79	0.74	<b>WE</b>	1528	1.96	1.57
	2006	1.76	1.50		2035	0.06	0.12		2254	1.97	1.52		2114	0.46	0.45
<b>4</b>	0141	0.97	0.88	<b>12</b>	0349	2.43	1.68	<b>20</b>	0430	0.92	0.84	<b>28</b>	0417	2.14	1.55
	0913	1.90	1.51		0919	0.75	0.76		1103	1.92	1.49		1003	0.94	0.91
<b>MO</b>	1433	1.18	1.06	<b>TU</b>	1538	2.17	1.63	<b>WE</b>	1649	0.67	0.65	<b>TH</b>	1600	1.93	1.54
	2128	1.80	1.51		2121	0.10	0.15		2350	2.06	1.53		2150	0.53	0.52
<b>5</b>	0301	1.00	0.89	<b>13</b>	0439	2.36	1.67	<b>21</b>	0530	0.88	0.83	<b>29</b>	0455	2.09	1.54
	1012	1.94	1.53		1005	0.79	0.79		1150	1.94	1.51		1040	0.98	0.93
<b>TU</b>	1539	1.07	0.97	<b>WE</b>	1624	2.12	1.62	<b>TH</b>	1741	0.55	0.56	<b>FR</b>	1636	1.88	1.51
	2237	1.89	1.53	<b>TH</b>	2209	0.22	0.24	<b>FRI</b>					2230	0.64	0.61
<b>6</b>	0417	0.96	0.86	<b>14</b>	0529	2.26	1.63	<b>22</b>	0039	2.14	1.55	<b>30</b>	0537	2.03	1.52
	1103	1.99	1.55		1053	0.84	0.81		0622	0.84	0.82		1122	1.01	0.93
<b>WE</b>	1641	0.88	0.82	<b>TH</b>	1714	2.05	1.59	<b>FR</b>	1233	1.97	1.52	<b>SA</b>	1720	1.82	1.48
	2337	2.03	1.57		2259	0.37	0.38		1824	0.46	0.48		2315	0.76	0.71
<b>7</b>	0519	0.89	0.81	<b>15</b>	0619	2.14	1.58	<b>23</b>	0121	2.19	1.55	<b>31</b>	0625	1.96	1.51
	1150	2.04	1.57		1143	0.89	0.84		0707	0.81	0.81		1208	1.02	0.92
<b>TH</b>	1733	0.66	0.64	<b>FR</b>	1811	1.96	1.55	<b>SA</b>	1314	1.98	1.54	<b>SU</b>	1823	1.77	1.45
					2353	0.56	0.52		1902	0.40	0.43				
<b>8</b>	0031	2.18	1.62	<b>16</b>	0713	2.04	1.54	<b>24</b>	0159	2.22	1.55				
	0613	0.82	0.77		1236	0.92	0.84		0747	0.80	0.81				
<b>FR</b>	1235	2.09	1.59	<b>SA</b>	1921	1.89	1.52	<b>SU</b>	1351	1.99	1.56				
	1820	0.43	0.44						1936	0.38	0.40				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0007	0.89	0.82												
	0720	1.92	1.50	<b>9</b>	0243	2.48	1.74	<b>17</b>	0253	1.04	0.93	<b>25</b>	0317	2.21	1.61
<b>MO</b>	1259	1.00	0.88		0818	0.77	0.75		0927	1.86	1.51		0906	0.90	0.85
	1948	1.76	1.44	<b>TU</b>	1431	2.14	1.66	<b>WE</b>	1508	0.65	0.57	<b>TH</b>	1506	1.94	1.57
					2017	0.04	0.06		2234	1.97	1.51		2050	0.46	0.43
<b>2</b>	0109	1.00	0.91												
	0820	1.89	1.51	<b>10</b>	0333	2.43	1.73	<b>18</b>	0402	1.07	0.98	<b>26</b>	0353	2.18	1.60
<b>TU</b>	1355	0.94	0.82		0904	0.74	0.70		1019	1.86	1.52		0940	0.88	0.83
	2108	1.82	1.47	<b>WE</b>	1522	2.13	1.65	<b>TH</b>	1611	0.61	0.55	<b>FR</b>	1542	1.91	1.54
					2106	0.12	0.13		2328	2.05	1.54		2128	0.53	0.50
<b>3</b>	0224	1.07	0.97												
	0920	1.90	1.53	<b>11</b>	0422	2.35	1.69	<b>19</b>	0506	1.05	0.99	<b>27</b>	0430	2.14	1.58
<b>WE</b>	1454	0.83	0.73		0951	0.72	0.67		1108	1.87	1.54		1017	0.87	0.80
	2216	1.95	1.53	<b>TH</b>	1614	2.08	1.61	<b>FR</b>	1706	0.55	0.51	<b>SA</b>	1622	1.88	1.50
					2155	0.26	0.26						2210	0.63	0.59
<b>4</b>	0341	1.08	0.98												
	1015	1.93	1.57	<b>12</b>	0510	2.24	1.65	<b>20</b>	0015	2.12	1.56	<b>28</b>	0510	2.09	1.56
<b>TH</b>	1555	0.67	0.59		1039	0.71	0.64		0600	1.02	0.97		1058	0.85	0.77
	2316	2.11	1.60	<b>FR</b>	1708	2.00	1.55	<b>SA</b>	1153	1.90	1.56	<b>SU</b>	1710	1.83	1.46
					2246	0.44	0.41		1751	0.49	0.46		2255	0.75	0.71
<b>5</b>	0450	1.04	0.96												
	1105	1.97	1.60	<b>13</b>	0557	2.13	1.60	<b>21</b>	0056	2.17	1.58	<b>29</b>	0552	2.03	1.54
<b>FR</b>	1654	0.47	0.42		1128	0.70	0.63		0646	0.98	0.95		1142	0.82	0.73
				<b>SA</b>	1809	1.91	1.50	<b>SU</b>	1236	1.92	1.58	<b>MO</b>	1813	1.80	1.43
					2339	0.63	0.57		1830	0.45	0.43		2345	0.89	0.84
<b>6</b>	0011	2.27	1.67												
	0550	0.98	0.92	<b>14</b>	0644	2.02	1.55	<b>22</b>	0133	2.21	1.60	<b>30</b>	0638	1.98	1.53
<b>SA</b>	1155	2.02	1.63		1218	0.70	0.61		0725	0.95	0.92		1230	0.78	0.68
	1747	0.27	0.25	<b>SU</b>	1918	1.86	1.47	<b>MO</b>	1317	1.93	1.59	<b>TU</b>	1930	1.82	1.43
									1906	0.43	0.40				
<b>7</b>	0102	2.40	1.72												
	0643	0.90	0.86	<b>15</b>	0037	0.81	0.72	<b>23</b>	0208	2.23	1.60				
<b>SU</b>	1247	2.08	1.65		0736	1.94	1.52		0801	0.93	0.90				
	1838	0.12	0.12	<b>MO</b>	1311	0.69	0.60	<b>TU</b>	1354	1.94	1.60				
					2028	1.86	1.46		1940	0.42	0.39				
<b>8</b>	0153	2.47	1.75												
	0732	0.83	0.80	<b>16</b>	0142	0.95	0.84	<b>24</b>	0242	2.23	1.61				
<b>MO</b>	1339	2.12	1.66		0831	1.88	1.51		0833	0.91	0.88				
	1927	0.04	0.05	<b>TU</b>	1407	0.68	0.59	<b>WE</b>	1430	1.94	1.59				
					2134	1.90	1.48		2014	0.43	0.40				

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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 - 2021

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
<b>1</b>	0043	1.03	0.96	<b>9</b>	0317	2.40	1.68	<b>17</b>	0324	1.20	1.10	<b>25</b>	0332	2.21	1.57
<b>WE</b>	0730	1.94	1.54	<b>TH</b>	0849	0.69	0.65	<b>FR</b>	0931	1.83	1.55	<b>SA</b>	0916	0.79	0.75
	1321	0.71	0.61		1510	2.11	1.63		1527	0.62	0.55		1528	1.93	1.51
	2045	1.91	1.48		2053	0.19	0.20		2258	2.01	1.51		2112	0.52	0.50
<b>2</b>	0151	1.14	1.05	<b>10</b>	0404	2.32	1.64	<b>18</b>	0433	1.23	1.13	<b>26</b>	0409	2.19	1.56
<b>TH</b>	0827	1.92	1.57	<b>FR</b>	0935	0.61	0.56	<b>SA</b>	1023	1.84	1.58	<b>SU</b>	0953	0.72	0.68
	1416	0.62	0.53		1604	2.06	1.57		1627	0.61	0.55		1611	1.91	1.48
	2151	2.04	1.56		2143	0.32	0.32		2346	2.07	1.54		2154	0.61	0.60
<b>3</b>	0304	1.20	1.11	<b>11</b>	0448	2.24	1.60	<b>19</b>	0534	1.20	1.12	<b>27</b>	0446	2.14	1.55
<b>FR</b>	0925	1.93	1.61	<b>SA</b>	1022	0.55	0.50	<b>SU</b>	1113	1.85	1.60	<b>MO</b>	1033	0.67	0.62
	1516	0.50	0.43	<b>MO</b>	1659	1.99	1.51		1718	0.57	0.52		1701	1.89	1.44
	2251	2.19	1.64		2231	0.49	0.47						2239	0.74	0.72
<b>4</b>	0416	1.20	1.11	<b>12</b>	0530	2.14	1.57	<b>20</b>	0029	2.12	1.56	<b>28</b>	0524	2.09	1.54
<b>SA</b>	1022	1.96	1.65	<b>SU</b>	1108	0.52	0.47	<b>MO</b>	0623	1.15	1.08	<b>TU</b>	1116	0.61	0.57
	1619	0.36	0.32		1759	1.92	1.46		1201	1.87	1.61		1802	1.89	1.42
	2348	2.32	1.69		2321	0.68	0.62		1801	0.53	0.48		2327	0.90	0.86
<b>5</b>	0522	1.14	1.06	<b>13</b>	0612	2.04	1.55	<b>21</b>	0107	2.17	1.58	<b>29</b>	0602	2.04	1.55
<b>SU</b>	1119	2.01	1.69	<b>MO</b>	1154	0.52	0.46	<b>TU</b>	0703	1.08	1.02	<b>WE</b>	1201	0.56	0.52
	1719	0.22	0.20		1902	1.88	1.43		1246	1.89	1.61		1911	1.93	1.43
									1840	0.50	0.45				
<b>6</b>	0042	2.41	1.72	<b>14</b>	0014	0.85	0.77	<b>22</b>	0143	2.20	1.59	<b>30</b>	0021	1.05	0.99
<b>MO</b>	0621	1.04	0.98	<b>TU</b>	0656	1.96	1.53	<b>WE</b>	0737	1.01	0.96	<b>TH</b>	0645	1.99	1.57
	1218	2.06	1.70		1241	0.54	0.47		1328	1.92	1.60		1249	0.51	0.47
	1816	0.12	0.12		2004	1.88	1.43		1917	0.46	0.42		2018	2.00	1.48
<b>7</b>	0135	2.45	1.72	<b>15</b>	0112	1.01	0.91	<b>23</b>	0219	2.22	1.59	<b>31</b>	0121	1.18	1.10
<b>TU</b>	0713	0.92	0.87	<b>WE</b>	0744	1.89	1.53	<b>TH</b>	0809	0.93	0.89	<b>FR</b>	0738	1.96	1.60
	1318	2.10	1.69		1331	0.57	0.49		1408	1.93	1.58		1343	0.46	0.43
	1910	0.07	0.08		2105	1.90	1.45		1954	0.45	0.42		2123	2.10	1.54
<b>8</b>	0227	2.44	1.71	<b>16</b>	0215	1.13	1.02	<b>24</b>	0255	2.22	1.59				
<b>WE</b>	0802	0.80	0.75	<b>TH</b>	0837	1.85	1.53	<b>FR</b>	0841	0.86	0.82				
	1415	2.12	1.67		1426	0.61	0.52		1448	1.93	1.55				
	2002	0.10	0.12		2203	1.95	1.48		2032	0.47	0.44				

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# AUSTRALIA, SOUTH COAST - THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## JANUARY - 2021

Slack				Maximum				Slack				Maximum				Slack				Maximum				Slack				Maximum			
		Time	Rate			Time	Rate			Time	Rate			Time	Rate			Time	Rate			Time	Rate			Time	Rate				
1 FR		0501	0042 4.39	9 SA		0329	0018 -3.91	17 SU		0606	0210 4.45	25 MO		0436	0158 -2.58																
		1104	0729 -3.96			0922	0611 3.35			1221	0837 -4.80			1006	0714 2.11																
		1538	1331 2.61			1638	1212 -5.49			1728	1507 3.44			1745	1312 -4.48																
		2241	1827 -5.20			2309	1936 3.55				2016 -5.54				2047 3.35																
2 SA		0536	0123 4.49	10 SU		0424	0126 -3.44	18 MO		0013	0253 4.36	26 TU		0054	0305 -2.2																
		1141	0806 -4.22			1005	0705 2.92			0641	0914 -5.03			0546	0827 1.54																
		1625	1412 2.85			1738	1302 -5.43			1303	1547 3.49			1052	1405 -4.29																
		2322	1911 -5.39				2039 3.71			1819	2104 -5.27			1842	2145 3.49																
3 SU		0609	0203 4.50	11 MO		0030	0241 -3.11	19 TU		0051	0332 4.21	27 WE		0207	0420 -2.19																
		1217	0841 -4.45			0535	0818 2.47			0712	0948 -5.18			0726	0953 1.26																
		1711	1451 3.03			1059	1402 -5.32			1342	1624 3.48			1151	1508 -4.23																
			1956 -5.47			1843	2141 3.92			1907	2148 -4.91			1942	2241 3.70																
4 MO		0001	0244 4.45	12 TU		0149	0400 -3.07	20 WE		0126	0409 4.02	28 TH		0309	0529 -2.61																
		0641	0915 -4.68			0706	0946 2.22			0740	1019 -5.24			0855	1113 1.45																
		1253	1529 3.16			1205	1509 -5.26			1419	1701 3.43			1303	1614 -4.35																
		1758	2043 -5.40			1948	2241 4.13			1954	2232 -4.49			2040	2332 3.93																
5 TU		0041	0323 4.34	13 WE		0258	0513 -3.33	21 TH		0158	0442 3.78	29 FR		0358	0620 -3.18																
		0712	0948 -4.91			0836	1110 2.33			0806	1050 -5.21			0954	1216 1.95																
		1331	1610 3.26			1317	1621 -5.32			1454	1738 3.38			1414	1715 -4.65																
		1847	2131 -5.20			2052	2338 4.31			2043	2318 -4.05			2134																	
6 WE		0120	0402 4.17	14 TH		0356	0616 -3.73	22 FR		0231	0514 3.50	30 SA			0020 4.13																
		0742	1020 -5.13			0947	1223 2.66			0833	1120 -5.11			0438	0702 -3.70																
		1411	1655 3.33			1429	1730 -5.48			1531	1818 3.33			1039	1309 2.52																
		1942	2223 -4.86			2150				2135				1518	1809 -5.01																
7 TH		0200	0442 3.95	15 FR			0033 4.43	23 SA			0006 -3.58	31 SU			0107 4.28																
		0813	1054 -5.32			0445	0708 -4.13			0306	0546 3.15			0512	0739 -4.16																
		1456	1744 3.38			1045	1327 3.02			0900	1152 -4.93			1118	1356 3.01																
		2043	2318 -4.42			1534	1831 -5.64			1611	1902 3.30			1615	1901 -5.32																
8 FR		0242	0525 3.69	16 SA			0124 4.48	24 SU			0100 -3.08																				
		0845	1131 -5.45			0528	0756 -4.49			0346	0624 2.69																				
		1544	1839 3.45			1136	1422 3.29			0930	1229 -4.71																				
		2152				1634	1926 -5.67			1655	1951 3.29																				
					2330				2340																						

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## FEBRUARY - 2021

Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate
<b>1</b>		0151 4.35	<b>9</b>	0007 0217 -3.07	<b>17</b>	0034 0315 4.04	<b>25</b>	0105 0315 -2.09															
	0544 0815 -4.62			0505 0745 2.40			0635 0916 -5.39			0602 0840 1.23									0602 0840 1.23				
<b>MO</b>	1157 1438 3.37	<b>TU</b>	1030 1336 -5.16	<b>WE</b>	1312 1554 3.80	<b>TH</b>	1058 1419 -4.14																
	1708 1952 -5.49		1816 2113 3.67		1855 2134 -4.85		1851 2205 3.37																
	2351																						
<b>2</b>		0233 4.34	<b>10</b>	0124 0332 -2.85	<b>18</b>	0106 0347 3.89	<b>26</b>	0219 0433 -2.30															
	0613 0850 -5.07			0632 0918 2.02			0700 0944 -5.47			0756 1026 1.30													
<b>TU</b>	1235 1518 3.62	<b>WE</b>	1139 1448 -4.82	<b>TH</b>	1344 1626 3.81	<b>FR</b>	1223 1538 -4.09																
	1800 2042 -5.48		1926 2221 3.75		1935 2213 -4.58		2002 2306 3.59																
<b>3</b>	0032 0313 4.25	<b>11</b>	0236 0450 -3.04	<b>19</b>	0136 0415 3.70	<b>27</b>	0315 0536 -2.96																
	0643 0923 -5.50		0815 1055 2.13		0724 1010 -5.47		0912 1145 1.98																
<b>WE</b>	1315 1559 3.78	<b>TH</b>	1302 1612 -4.71	<b>FR</b>	1415 1659 3.78	<b>SA</b>	1352 1652 -4.35																
	1853 2133 -5.29		2035 2324 3.89		2016 2252 -4.27		2107																
<b>4</b>	0113 0352 4.11	<b>12</b>	0336 0556 -3.53	<b>20</b>	0207 0444 3.49	<b>28</b>	0001 3.84																
	0712 0955 -5.83		0935 1215 2.58		0749 1037 -5.39		0357 0622 -3.69																
<b>TH</b>	1357 1640 3.86	<b>FR</b>	1423 1728 -4.88	<b>SA</b>	1448 1732 3.72	<b>SU</b>	1003 1244 2.80																
	1948 2224 -4.95		2138		2059 2332 -3.90		1508 1756 -4.78																
<b>5</b>	0152 0431 3.91	<b>13</b>	0022 4.05	<b>21</b>	0238 0513 3.24		2203																
	0743 1029 -6.02		0424 0649 -4.06		0816 1106 -5.23																		
<b>FR</b>	1441 1725 3.87	<b>SA</b>	1033 1317 3.07	<b>SU</b>	1523 1810 3.63																		
	2045 2315 -4.49		1535 1829 -5.11		2147																		
<b>6</b>	0232 0511 3.66	<b>14</b>	0114 4.16	<b>22</b>	0016 -3.47																		
	0816 1105 -6.04		0504 0734 -4.53		0312 0546 2.88																		
<b>SA</b>	1527 1814 3.82	<b>SU</b>	1121 1406 3.43	<b>MO</b>	0846 1139 -5.01																		
	2147		1635 1922 -5.24		1602 1853 3.48																		
<b>7</b>	0010 -3.99	<b>15</b>	0159 4.20	<b>23</b>	0106 -2.95																		
	0315 0552 3.35		0538 0813 -4.91		0350 0623 2.39																		
<b>SU</b>	0852 1146 -5.87	<b>MO</b>	1202 1447 3.64	<b>TU</b>	0918 1220 -4.72																		
	1616 1908 3.74		1726 2010 -5.22		1648 1947 3.33																		
	2254		2359		2348																		
<b>8</b>	0110 -3.49	<b>16</b>	0239 4.15	<b>24</b>	0204 -2.41																		
	0403 0639 2.92		0609 0846 -5.21		0441 0713 1.77																		
<b>MO</b>	0936 1236 -5.56	<b>TU</b>	1239 1522 3.75	<b>WE</b>	0959 1312 -4.40																		
	1712 2008 3.68		1812 2053 -5.08		1744 2054 3.27																		

The Rip

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## MARCH - 2021

Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate
<b>1</b>		0050 4.02		<b>9</b>	0051 -3.64		<b>17</b>	0223 3.83		<b>25</b>	0116 -2.86												
<b>MO</b>	0432 0702 -4.36		<b>TU</b>	0350 0625 2.82		<b>WE</b>	0527 0810 -5.31		<b>TH</b>	0407 0635 1.95													
	1047 1331 3.44			0918 1218 -5.30			1205 1446 4.08			0924 1236 -4.36													
	1612 1855 -5.16			1645 1938 3.57			1803 2041 -4.85			1649 1956 3.14													
	2253			2339																			
<b>2</b>		0136 4.12		<b>10</b>	0152 -3.20		<b>18</b>	0015 0255 3.74		<b>26</b>	0001 0218 -2.55												
<b>TU</b>	0503 0740 -5.01		<b>WE</b>	0450 0732 2.31		<b>TH</b>	0552 0838 -5.48		<b>FR</b>	0516 0754 1.48													
	1129 1412 3.88			1016 1322 -4.72			1235 1516 4.16			1030 1346 -3.97													
	1709 1950 -5.37			1748 2046 3.39			1839 2118 -4.75			1757 2124 3.11													
	2339																						
<b>3</b>		0219 4.13		<b>11</b>	0051 0304 -2.92		<b>19</b>	0046 0323 3.63		<b>27</b>	0110 0329 -2.65												
<b>WE</b>	0535 0816 -5.62		<b>TH</b>	0618 0909 1.97		<b>FR</b>	0617 0904 -5.55		<b>SA</b>	0657 0946 1.65													
	1211 1453 4.17			1133 1439 -4.23			1304 1546 4.19			1206 1510 -3.81													
	1802 2042 -5.39			1901 2201 3.36			1915 2153 -4.60			1918 2237 3.29													
<b>4</b>		0022 0300 4.06		<b>12</b>	0203 0422 -3.06		<b>20</b>	0115 0349 3.50		<b>28</b>	0209 0437 -3.23												
<b>TH</b>	0606 0850 -6.11		<b>FR</b>	0802 1047 2.18		<b>SA</b>	0642 0929 -5.53		<b>SU</b>	0822 1112 2.47													
	1253 1534 4.32			1304 1610 -4.08			1334 1616 4.17			1343 1632 -4.02													
	1855 2131 -5.24			2018 2314 3.49			1951 2226 -4.39			2035 2337 3.52													
<b>5</b>		0103 0338 3.93		<b>13</b>	0303 0529 -3.58		<b>21</b>	0145 0415 3.36		<b>29</b>	0257 0530 -4.00												
<b>FR</b>	0639 0925 -6.40		<b>SA</b>	0919 1204 2.73		<b>SU</b>	0709 0955 -5.46		<b>MO</b>	0920 1210 3.33													
	1336 1616 4.34			1432 1726 -4.30			1406 1648 4.08			1505 1744 -4.46													
	1947 2219 -4.94			2124			2029 2302 -4.11			2139													
<b>6</b>		0143 0416 3.76		<b>14</b>	0014 3.67		<b>22</b>	0215 0444 3.16		<b>30</b>	0030 3.70												
<b>SA</b>	0714 1002 -6.44		<b>SU</b>	0350 0620 -4.15		<b>MO</b>	0738 1025 -5.31		<b>TU</b>	0337 0615 -4.77													
<b>MO</b>	1420 1701 4.24			1014 1258 3.27			1439 1722 3.92			1010 1256 3.96													
	2040 2307 -4.54			1541 1826 -4.58			2110 2340 -3.74			1610 1847 -4.83													
				2218						2233													
<b>7</b>		0223 0455 3.53		<b>15</b>	0103 3.81		<b>23</b>	0246 0516 2.87		<b>31</b>	0117 3.79												
<b>SU</b>	0750 1041 -6.24		<b>MO</b>	0428 0703 -4.64		<b>TU</b>	0808 1100 -5.09		<b>WE</b>	0414 0657 -5.51													
	1505 1747 4.06			1057 1340 3.65			1516 1800 3.69			1057 1340 4.40													
	2135 2357 -4.09			1637 1916 -4.78			2158			1708 1944 -5.06													
				2303						2322													
<b>8</b>		0304 0537 3.23		<b>16</b>	0145 3.86		<b>24</b>	0024 -3.31															
<b>MO</b>	0830 1126 -5.84		<b>TU</b>	0500 0738 -5.03		<b>WE</b>	0321 0551 2.47																
	1552 1839 3.82			1133 1415 3.92			0841 1142 -4.76																
	2234			1723 2000 -4.87			1558 1848 3.40																
				2341			2255																

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## APRIL - 2021

Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate
<b>1</b>		0202 3.81		<b>9</b>	0011 0233 -3.28		<b>17</b>	0025 0259 3.31		<b>25</b>	0001 0231 -3.42												
	0450 0736 -6.13				0616 0908 2.13			0533 0822 -5.47			0619 0919 2.35												
TH	1142 1422 4.65		FR	1142 1435 -3.66		SA	1225 1506 4.47		SU	1204 1449 -3.54													
	1800 2035 -5.11				1832 2141 3.05			1854 2131 -4.51			1831 2153 3.01												
<b>2</b>	0006 0244 3.77		<b>10</b>	0117 0347 -3.37		<b>18</b>	0055 0323 3.24		<b>26</b>	0057 0333 -3.86													
	0527 0815 -6.53			0745 1036 2.45			0602 0849 -5.45			0736 1038 3.14													
FR	1227 1506 4.73		SA	1318 1605 -3.51		SU	1256 1537 4.42		MO	1341 1614 -3.69													
	1850 2123 -5.02			1953 2258 3.14			1928 2203 -4.37			1958 2302 3.16													
<b>3</b>	0049 0323 3.68		<b>11</b>	0215 0452 -3.78		<b>19</b>	0125 0351 3.13		<b>27</b>	0149 0431 -4.52													
	0606 0855 -6.66			0852 1141 2.99			0633 0917 -5.37			0839 1133 3.85													
SA	1312 1550 4.65		SU	1441 1720 -3.74		MO	1328 1610 4.30		TU	1501 1730 -4.06													
	1940 2208 -4.82			2103 2357 3.28			2004 2236 -4.16			2110													
<b>4</b>	0131 0402 3.55		<b>12</b>	0302 0541 -4.27		<b>20</b>	0155 0420 2.97		<b>28</b>	0001 3.30													
	0646 0937 -6.49			0941 1225 3.49			0704 0951 -5.21			0237 0523 -5.26													
SU	1356 1635 4.45		MO	1544 1816 -4.06		TU	1401 1644 4.11		WE	0933 1221 4.39													
☉	2029 2253 -4.54			2158			2042 2311 -3.90			1606 1834 -4.41													
<b>5</b>	0212 0444 3.36		<b>13</b>	0045 3.38		<b>21</b>	0226 0453 2.72		<b>29</b>	0053 3.40													
	0730 1023 -6.08			0340 0622 -4.70			0737 1029 -4.96			0322 0611 -5.92													
MO	1441 1722 4.16		TU	1019 1300 3.88		WE	1436 1720 3.86		TH	1024 1307 4.74													
	2119 2339 -4.22			1633 1903 -4.32			2124 2351 -3.62			1702 1929 -4.64													
<b>6</b>	0256 0530 3.07		<b>14</b>	0127 3.42		<b>22</b>	0303 0529 2.42		<b>30</b>	0140 3.47													
	0817 1112 -5.51			0411 0657 -5.05			0816 1115 -4.61			0406 0657 -6.41													
TU	1527 1812 3.83		WE	1053 1333 4.17		TH	1517 1802 3.54		FR	1113 1354 4.91													
	2211			1713 1945 -4.50			2212			1752 2020 -4.75													
<b>7</b>	0030 -3.87		<b>15</b>	0202 3.41		<b>23</b>	0037 -3.38			2349													
	0346 0626 2.70			0439 0727 -5.29			0350 0619 2.09																
WE	0911 1209 -4.84		TH	1124 1405 4.36		FR	0909 1213 -4.18																
	1618 1909 3.48			1749 2023 -4.58			1606 1858 3.19																
	2308			2353			2304																
<b>8</b>	0126 -3.52		<b>16</b>	0234 3.36		<b>24</b>	0131 -3.27																
	0449 0736 2.30			0506 0756 -5.42			0456 0743 1.95																
TH	1017 1315 -4.18		FR	1154 1435 4.46		SA	1027 1326 -3.76																
	1717 2016 3.18			1822 2058 -4.59			1709 2027 2.97																

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## MAY - 2021

Slack Maximum			Slack Maximum			Slack Maximum			Slack Maximum		
Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate
<b>1</b>	0225	3.49	<b>9</b>	0020	0300 -3.79	<b>17</b>	0035	0303 2.97	<b>25</b>	0238	-4.60
SA	0450	0743 -6.63	SU	0713	1005 2.77	MO	0529	0814 -5.30	TU	0700	1004 3.65
	1201	1440 4.89		1322	1549 -3.06		1223	1505 4.50		1337	1556 -3.39
	1840	2106 -4.76		1917	2223 2.74		1909	2141 -4.27		1918	2214 2.75
<b>2</b>	0033	0309 3.46	<b>10</b>	0113	0402 -3.99	<b>18</b>	0107	0332 2.89	<b>26</b>	0046	0337 -5.07
SU	0536	0830 -6.57	MO	0810	1059 3.21	TU	0603	0848 -5.21	WE	0803	1059 4.17
	1247	1526 4.73		1437	1702 -3.25		1256	1539 4.36		1454	1712 -3.69
	1927	2150 -4.69		2032	2323 2.76		1944	2213 -4.17		2039	2322 2.84
<b>3</b>	0118	0354 3.38	<b>11</b>	0200	0453 -4.31	<b>19</b>	0139	0404 2.76	<b>27</b>	0140	0436 -5.61
MO	0624	0918 -6.23	TU	0856	1140 3.65	WE	0639	0926 -5.03	TH	0901	1150 4.58
	1333	1611 4.48		1534	1757 -3.59		1330	1614 4.18		1557	1814 -4.02
	2013	2235 -4.57		2131			2019	2247 -4.06		2144	
<b>4</b>	0203	0442 3.22	<b>12</b>	0013	2.81	<b>20</b>	0214	0439 2.62	<b>28</b>	0021	2.99
TU	0715	1009 -5.71	WE	0240	0535 -4.64	TH	0719	1009 -4.77	FR	0235	0531 -6.08
☉	1418	1658 4.17	●	0935	1216 4.02	☉	1407	1651 3.95		0956	1240 4.82
	2059	2320 -4.40		1619	1843 -3.91		2055	2324 -3.99		1651	1908 -4.28
				2217						2240	
<b>5</b>	0251	0534 2.99	<b>13</b>	0055	2.88	<b>21</b>	0253	0523 2.49	<b>29</b>	0115	3.14
WE	0810	1103 -5.06	TH	0315	0611 -4.92	FR	0807	1100 -4.41	SA	0328	0625 -6.37
	1502	1747 3.83		1010	1251 4.31		1446	1732 3.66		1048	1329 4.90
	2145			1656	1923 -4.15		2133			1740	1957 -4.46
				2256						2330	
<b>6</b>	0007	-4.18	<b>14</b>	0133	2.94	<b>22</b>	0004	-3.98	<b>30</b>	0208	3.26
TH	0345	0629 2.71	FR	0348	0644 -5.13	SA	0342	0620 2.44	SU	0422	0718 -6.44
	0911	1201 -4.39		1043	1325 4.49		0910	1200 -4.00		1138	1417 4.83
	1549	1840 3.46		1730	2000 -4.30		1533	1821 3.33		1827	2045 -4.58
	2234			2331			2215				
<b>7</b>	0058	-3.96	<b>15</b>	0205	2.98	<b>23</b>	0049	-4.06	<b>31</b>	0018	0259 3.32
FR	0449	0734 2.47	SA	0421	0714 -5.26	SU	0442	0737 2.60	MO	0516	0812 -6.26
	1024	1308 -3.75		1117	1358 4.58		1032	1311 -3.60		1226	1504 4.67
	1643	1942 3.08		1803	2035 -4.36		1632	1930 2.99		1911	2130 -4.66
	2326						2301				
<b>8</b>	0156	-3.79	<b>16</b>	0004	0235 3.00	<b>24</b>	0140	-4.26			
SA	0602	0851 2.47	SU	0454	0743 -5.32	MO	0551	0857 3.06			
	1152	1426 -3.24		1150	1432 4.57		1205	1432 -3.34			
	1753	2105 2.81		1835	2109 -4.34		1749	2055 2.78			
							2352				

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## JUNE - 2021

Slack Maximum				Slack Maximum				Slack Maximum				Slack Maximum					
	Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		
1 TU	0106	0350	3.31	9 WE	0047	0357	-4.28	17 TH	0126	0358	2.80	25 FR	0056	0359	-5.66		
	0611	0905	-5.87		0807	1053	3.70		0626	0913	-4.93		0835	1125	4.50		
	1312	1551	4.43		1512	1730	-3.13		1309	1554	4.19		1543	1757	-3.67		
	1953	2214	-4.69		2055	2327	2.15		1954	2223	-4.39		2119	2351	2.64		
2 WE	0155	0440	3.22	10 TH	0132	0443	-4.46	18 FR	0203	0438	2.82	26 SA	0201	0502	-5.90		
	0707	0958	-5.33		0849	1134	4.02		0714	1000	-4.66		0933	1218	4.67		
	1355	1636	4.16		1557	1819	-3.48		1347	1632	4.00		1637	1851	-3.99		
	2035	2257	-4.66		2147				2025	2257	-4.51		2220				
3 TH	0245	0529	3.07	11 FR		0014	2.28	19 SA	0244	0526	2.87	27 SU		0056	2.92		
	0807	1052	-4.72		0216	0524	-4.69		0810	1053	-4.32		0304	0604	-6.05		
	1437	1722	3.86		0929	1212	4.27		1426	1713	3.76		1029	1310	4.71		
	2114	2341	-4.57		1635	1859	-3.77		2057	2333	-4.66		1725	1940	-4.28		
4 FR	0338	0621	2.90	12 SA		0056	2.46	20 SU	0331	0622	2.99	28 MO		0156	3.17		
	0911	1150	-4.10		0259	0601	-4.90		0918	1152	-3.92		0406	0704	-6.07		
	1520	1809	3.50		1008	1250	4.43		1511	1757	3.45		1121	1400	4.66		
	2155				1711	1937	-3.98		2131				1809	2026	-4.53		
5 SA		0026	-4.44	13 SU		0136	2.63	21 MO		0013	-4.84	29 TU	0006	0252	3.33		
	0434	0717	2.79		0342	0636	-5.08		0425	0725	3.21		0506	0801	-5.89		
	1024	1255	-3.53		1046	1328	4.51		1035	1259	-3.52		1209	1448	4.54		
	1607	1902	3.07		1744	2013	-4.11		1605	1851	3.06		1850	2111	-4.74		
6 SU	2236			2343				2211									
		0114	-4.29	14 MO		0213	2.75	22 TU		0100	-5.02	30 WE	0055	0343	3.40		
	0532	0817	2.82		0423	0712	-5.18		0525	0831	3.52		0605	0855	-5.55		
	1144	1406	-3.04		1123	1405	4.51		1201	1415	-3.21		1253	1533	4.37		
1707	2011	2.62	1818		2046	-4.18	1713		2003	2.67	1928		2153	-4.90			
7 MO	2318			15 TU	0017	0248	2.79	23 WE		0154	-5.20						
	0628	0917	3.03		0503	0751	-5.19		0629	0932	3.89						
	1304	1520	-2.76		1159	1441	4.45		1326	1536	-3.13						
	1826	2127	2.31		1851	2118	-4.24		1838	2124	2.43						
8 TU				16 WE				24 TH									
	0002	0303	-4.17	16 WE	0051	0322	2.80	24 TH		0255	-5.42						
	0720	1009	3.35		0543	0830	-5.10		0733	1030	4.23						
	1414	1631	-2.82		1234	1517	4.34		1441	1652	-3.33						
	1949	2233	2.15		1923	2151	-4.31		2005	2242	2.44						

The Rip

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## JULY - 2021

Slack Maximum				Slack Maximum				Slack Maximum				Slack Maximum				
	Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate	
1 TH	0143	0430	3.37	9 FR	0028	0344	-4.30	17 SA 	0148	0434	3.32	25 SU	0144	0448	-5.45	
	0703	0946	-5.07		0805	1054	3.86		0718	0958	-4.71		0919	1204	4.37	
	1333	1616	4.16		1528	1749	-2.94		1334	1618	4.03		1620	1835	-3.83	
	2004	2232	-4.98		2109	2329	1.77		1951	2230	-5.17		2206			
2 FR 	0230	0514	3.29	10 SA 	0123	0435	-4.45	18 SU	0229	0519	3.42	26 MO		0047	2.91	
	0801	1038	-4.54		0854	1140	4.07		0816	1049	-4.34		0256	0558	-5.60	
	1412	1657	3.89		1612	1834	-3.33		1413	1656	3.80		1016	1258	4.45	
	2037	2310	-4.96		2200				2021	2304	-5.38		1706	1924	-4.25	
3 SA	0316	0600	3.20	11 SU		0022	2.06	19 MO	0315	0608	3.50	27 TU		0150	3.27	
	0900	1132	-4.01		0218	0524	-4.67		0919	1144	-3.92		0403	0659	-5.67	
	1449	1737	3.55		0939	1223	4.24		1455	1737	3.50		1108	1348	4.47	
	2110	2349	-4.87		1650	1913	-3.65		2053	2343	-5.51		1746	2009	-4.63	
4 SU	0402	0645	3.13	12 MO		0109	2.38	20 TU	0405	0702	3.59	28 WE		0243	3.51	
	1004	1230	-3.50		0311	0608	-4.90		1030	1248	-3.49		0505	0755	-5.57	
	1531	1817	3.13		1022	1305	4.35		1543	1823	3.09		1154	1434	4.41	
	2142				1724	1948	-3.92		2132				1822	2050	-4.96	
5 MO		0029	-4.70	13 TU		0152	2.66	21 WE		0028	-5.53	29 TH	0040	0328	3.61	
	0448	0734	3.13		0401	0653	-5.08		0501	0802	3.70		0601	0845	-5.30	
	1112	1332	-3.04		1103	1345	4.40		1148	1358	-3.11		1235	1516	4.29	
	1619	1907	2.62		1756	2021	-4.17		1643	1923	2.62		1855	2128	-5.19	
	2216			2357				2219								
6 TU		0112	-4.50	14 WE		0234	2.88	22 TH		0122	-5.47	30 FR	0122	0409	3.62	
	0536	0826	3.22		0448	0738	-5.16		0603	0905	3.87		0655	0933	-4.92	
	1223	1437	-2.64		1141	1425	4.39		1309	1515	-2.89		1312	1554	4.11	
	1721	2013	2.11		1826	2052	-4.41		1801	2046	2.24		1926	2203	-5.30	
	2254							2318								
7 WE		0200	-4.34	15 TH	0033	0313	3.06	23 FR		0225	-5.39	31 SA 	0203	0447	3.58	
	0625	0918	3.40		0536	0823	-5.13		0709	1006	4.05		0746	1019	-4.49	
	1333	1545	-2.45		1219	1503	4.32		1424	1632	-2.98		1346	1630	3.87	
	1841	2124	1.75		1855	2125	-4.67		1934	2213	2.20		1954	2235	-5.29	
	2337															
8 TH		0252	-4.26	16 FR	0109	0352	3.20	24 SA 	0029	0335	-5.36					
	0716	1008	3.62		0625	0909	-4.98		0815	1106	4.23					
	1436	1652	-2.58		1256	1541	4.20		1527	1740	-3.37					
	2004	2231	1.64		1923	2158	-4.93		2059	2336	2.49					

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## AUGUST - 2021

Slack				Maximum				Slack				Maximum				Slack				Maximum			
	Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate
<b>1</b>	0241	0526	3.52	<b>9</b>	0148	0455	-4.43	<b>17</b>	0255	0542	3.86	<b>25</b>		0138	3.53								
SU	0836	1106	-4.07	MO	0913	1202	4.00	TU	0914	1136	-3.98	WE	0409	0657	-5.29								
	1420	1702	3.58		1621	1842	-3.46		1442	1718	3.46		1056	1337	4.25								
	2022	2308	-5.18		2213				2022	2316	-5.87		1713	1946	-4.90								
<b>2</b>	0319	0605	3.45	<b>10</b>		0044	2.40	<b>18</b>	0343	0634	3.78	<b>26</b>		0223	3.77								
MO	0928	1155	-3.64	TU	0252	0550	-4.75	WE	1018	1235	-3.53	TH	0505	0749	-5.26								
	1455	1733	3.22		1002	1248	4.17		1526	1800	3.07		1139	1420	4.23								
	2049	2341	-4.99		1654	1916	-3.93		2103				1746	2023	-5.25								
<b>3</b>	0358	0646	3.40	<b>11</b>		0132	2.91	<b>19</b>		0003	-5.64	<b>27</b>	0014	0301	3.89								
TU	1024	1248	-3.20	WE	0350	0641	-5.04	TH	0438	0733	3.69	FR	0555	0835	-5.09								
	1534	1810	2.77		1046	1330	4.28		1129	1339	-3.09		1216	1458	4.12								
	2120				1723	1949	-4.37		1621	1856	2.56		1815	2056	-5.47								
<b>4</b>		0018	-4.74	<b>12</b>		0214	3.30	<b>20</b>		0100	-5.30	<b>28</b>	0051	0336	3.93								
WE	0441	0732	3.36	TH	0443	0729	-5.21	FR	0540	0839	3.66	SA	0641	0917	-4.84								
	1126	1344	-2.72		1127	1411	4.30		1246	1451	-2.78		1250	1531	3.96								
	1621	1859	2.22		1751	2023	-4.82		1737	2024	2.14		1841	2126	-5.54								
<b>5</b>		0100	-4.49	<b>13</b>		0007	0255	3.59	<b>21</b>		0208	-4.97	<b>29</b>	0125	0409	3.91							
TH	0529	0825	3.36	FR	0535	0818	-5.22	SA	0650	0947	3.72	SU	0723	0958	-4.54								
	1235	1448	-2.29		1206	1450	4.25		1401	1611	-2.83		1322	1601	3.76								
	1722	2007	1.68		1818	2056	-5.25		1917	2208	2.16		1907	2155	-5.49								
<b>6</b>		0149	-4.28	<b>14</b>		0046	0334	3.78	<b>22</b>		0022	0327	-4.80	<b>30</b>	0158	0443	3.86						
FR	0623	0922	3.43	SA	0627	0906	-5.08	SU	0802	1053	3.86	MO	0805	1038	-4.23								
	1348	1600	-2.12		1245	1527	4.14		1504	1721	-3.31		1353	1628	3.53								
	1851	2129	1.38		1846	2129	-5.62		2048	2332	2.60		1933	2223	-5.35								
<b>7</b>		0248	-4.17	<b>15</b>		0127	0414	3.88	<b>23</b>		0146	0449	-4.90	<b>31</b>	0232	0517	3.78						
SA	0722	1019	3.58	SU	0719	0955	-4.80	MO	0909	1155	4.04	TU	0847	1118	-3.88								
	1452	1709	-2.40		1323	1603	3.97		1555	1817	-3.90		1424	1657	3.27								
	2023	2245	1.47		1916	2201	-5.86		2154				2001	2253	-5.14								
<b>8</b>	0039	0353	-4.21	<b>16</b>		0210	0456	3.90	<b>24</b>		0042	3.12											
SU	0820	1113	3.78	MO	0815	1043	-4.42	TU	0303	0558	-5.14												
	1542	1802	-2.93		1402	1640	3.75		1007	1250	4.18												
	2126	2350	1.87		1947	2236	-5.95		1637	1904	-4.44												

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## SEPTEMBER - 2021

Slack Maximum				Slack Maximum				Slack Maximum				Slack Maximum						
	Time	Time	Rate		Time	Time	Rate		Time	Time	Rate		Time	Time	Rate			
1 WE	0307	0554	3.65	9 TH		0104	3.43	17 FR	0414	0705	3.59	25 SA		0223	4.21			
	0934	1203	-3.47			0347	0630		-4.94		1104		1318	-3.26		0544	0822	-4.92
	1457	1728	2.92			1029	1314		4.07		1611		1850	2.48		1158	1438	3.81
	2032	2327	-4.88			1637	1912		-4.82		2146					1730	2016	-5.62
					2258													
2 TH	0347	0635	3.49	10 FR		0145	3.88	18 SA		0049	-4.82	26 SU	0012	0255	4.27			
	1027	1252	-2.99			0442	0724		-5.16		0517		0814	3.39		0623	0900	-4.80
	1535	1806	2.44			1112	1355		4.10		1214		1427	-2.97		1230	1507	3.69
	2107					1706	1947		-5.42		1731		2029	2.16		1756	2044	-5.63
					2339				2304									
3 FR		0008	-4.58	11 SA		0224	4.17	19 SU		0204	-4.37	27 MO	0043	0326	4.26			
	0433	0727	3.30			0535	0814		-5.20		0631		0931	3.35		0658	0936	-4.62
	1131	1348	-2.46			1154	1434		4.06		1326		1545	-3.04		1300	1532	3.55
	1624	1856	1.84			1736	2020		-5.92		1914		2210	2.38		1822	2111	-5.55
	2151																	
4 SA		0100	-4.26	12 SU	0020	0304	4.34	20 MO	0034	0332	-4.20	28 TU	0114	0358	4.20			
	0528	0833	3.18			0625	0902		-5.09		0749		1045	3.49		0733	1010	-4.40
	1245	1456	-2.10			1234	1510		3.96		1429		1656	-3.55		1329	1558	3.40
	1739	2029	1.36			1808	2055		-6.24		2037		2329	2.92		1850	2138	-5.40
	2250																	
5 SU		0204	-4.00	13 MO	0102	0345	4.37	21 TU	0201	0454	-4.39	29 WE	0147	0429	4.09			
	0633	0945	3.24			0716	0949		-4.83		0859		1148	3.70		0810	1046	-4.11
	1357	1612	-2.22			1313	1546		3.81		1518		1751	-4.18		1359	1626	3.21
	1928	2206	1.45			1841	2130		-6.33		2137					1920	2209	-5.18
								○				●						
6 MO	0009	0319	-3.94	14 TU	0146	0428	4.29	22 WE		0029	3.43	30 TH	0221	0503	3.91			
	0744	1050	3.46			0808	1036		-4.47		0315		0559	-4.68		0851	1123	-3.76
	1453	1715	-2.83			1351	1622		3.61		0955		1240	3.86		1430	1657	2.93
	2044	2320	2.05			1918	2209		-6.18		1558		1835	-4.73		1953	2244	-4.90
				●					2225									
7 TU	0131	0431	-4.17	15 WE	0232	0514	4.10	23 TH		0113	3.81							
	0847	1143	3.72			0902	1124		-4.07		0413	0653	-4.88					
	1534	1759	-3.54			1431	1701		3.34		1043	1325	3.93					
	2135					1959	2254		-5.84		1633	1913	-5.17					
									2305									
8 WE		0017	2.80	16 TH	0320	0605	3.85	24 FR		0149	4.06							
	0244	0534	-4.57			1000	1218		-3.66		0502	0740	-4.96					
	0941	1230	3.94			1515	1746		2.96		1123	1404	3.90					
	1607	1836	-4.19			2046	2347		-5.36		1703	1946	-5.46					
	2218								2340									

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## OCTOBER - 2021

Slack	Maximum	Slack	Maximum	Slack	Maximum	Slack	Maximum
Time	Time	Time	Time	Time	Time	Time	Time
<b>1</b>	0258 0541 3.66	<b>9</b>	0111 4.40	<b>17</b>	0048 -4.29	<b>25</b>	0215 4.52
FR	0937 1206 -3.35	SA	0440 0717 -4.94	SU	0451 0746 3.18	MO	0603 0841 -4.71
	1505 1732 2.53		1057 1336 3.76		1136 1358 -3.44		1211 1444 3.35
	2029 2328 -4.55		1619 1905 -5.99		1736 2035 2.38		1714 2004 -5.57
			2309		2320		
<b>2</b>	0341 0627 3.34	<b>10</b>	0153 4.66	<b>18</b>	0207 -3.81	<b>26</b>	0005 0247 4.51
SA	1032 1257 -2.91	SU	0531 0808 -5.02	MO	0606 0909 3.03	TU	0635 0914 -4.63
	1550 1818 2.01		1140 1415 3.74		1240 1511 -3.51		1241 1508 3.29
	2116		1655 1943 -6.42		1906 2205 2.71		1745 2031 -5.49
			2353				
<b>3</b>	0021 -4.14	<b>11</b>	0235 4.75	<b>19</b>	0055 0336 -3.68	<b>27</b>	0036 0318 4.43
SU	0432 0731 3.02	MO	0620 0855 -4.96	TU	0729 1031 3.11	WE	0707 0947 -4.48
	1136 1356 -2.59		1221 1453 3.69		1340 1621 -3.91		1310 1534 3.21
	1657 1947 1.58		1733 2022 -6.58		2017 2311 3.21		1815 2101 -5.34
	2225						
<b>4</b>	0132 -3.77	<b>12</b>	0038 0318 4.69	<b>20</b>	0217 0453 -3.89	<b>28</b>	0108 0351 4.30
MO	0538 0902 2.93	TU	0708 0940 -4.79	WE	0842 1133 3.27	TH	0742 1019 -4.27
	1243 1506 -2.64		1301 1530 3.59		1430 1714 -4.42		1340 1602 3.07
	1834 2130 1.80		1813 2103 -6.46		2110 2358 3.67		1848 2134 -5.13
	2355						
<b>5</b>	0252 -3.64	<b>13</b>	0123 0403 4.50	<b>21</b>	0321 0553 -4.21	<b>29</b>	0142 0425 4.09
TU	0658 1019 3.11	WE	0756 1024 -4.53	TH	0940 1224 3.39	FR	0819 1053 -4.01
	1342 1612 -3.16		1342 1609 3.43		1512 1757 -4.88		1411 1635 2.84
	1955 2250 2.57		1857 2149 -6.10		2153		1923 2212 -4.83
<b>6</b>	0125 0411 -3.86	<b>14</b>	0209 0449 4.21	<b>22</b>	0035 4.03	<b>30</b>	0218 0500 3.83
WE	0814 1118 3.37	TH	0845 1110 -4.24	FR	0411 0643 -4.47	SA	0859 1132 -3.74
	1429 1704 -3.89		1425 1653 3.18		1026 1308 3.44		1447 1712 2.54
	2052 2345 3.37		1945 2241 -5.55		1546 1833 -5.23		2004 2258 -4.44
					2229		
<b>7</b>	0242 0520 -4.29	<b>15</b>	0257 0540 3.86	<b>23</b>	0110 4.30	<b>31</b>	0257 0540 3.49
TH	0917 1208 3.58	FR	0937 1200 -3.94	SA	0453 0727 -4.64	SU	0944 1215 -3.50
	1508 1747 -4.64		1513 1750 2.84		1105 1345 3.44		1533 1801 2.20
	2140		2042 2340 -4.92		1617 1906 -5.46		2059 2356 -3.99
					2302		
<b>8</b>	0030 3.97	<b>16</b>	0350 0638 3.50	<b>24</b>	0143 4.46		
FR	0345 0622 -4.68	SA	1034 1255 -3.64	SU	0529 0805 -4.72		
	1010 1253 3.71		1614 1903 2.49		1140 1417 3.40		
	1544 1827 -5.36		2153		1646 1936 -5.57		
	2225				2333		

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## NOVEMBER - 2021

Slack Maximum			Slack Maximum			Slack Maximum			Slack Maximum		
Time	Time	Rate	Time	Time	Rate	Time	Time	Rate	Time	Time	Rate
<b>1</b>	0344	0630 3.11	<b>9</b>	0211	4.92	<b>17</b>	0101	0324 -3.23	<b>25</b>	0007	0250 4.50
MO	1034	1305 -3.36	TU	0611	0843 -4.76	WE	0655	0955 2.66	TH	0648	0927 -4.46
	1634	1925 2.04		1208	1439 3.44		1239	1532 -4.20		1255	1520 3.01
	2216			1706	1956 -6.60		1943	2234 3.37		1751	2035 -5.23
<b>2</b>		0108 -3.57	<b>10</b>	0016	0257 4.78	<b>18</b>	0216	0437 -3.39	<b>26</b>	0040	0323 4.36
TU	0444	0750 2.78	WE	0657	0927 -4.73	TH	0815	1101 2.67	FR	0721	0958 -4.37
	1128	1402 -3.44		1252	1523 3.41		1331	1628 -4.49		1326	1550 2.92
	1753	2101 2.42		1754	2046 -6.34		2032	2317 3.76		1828	2111 -5.04
	2349										
<b>3</b>		0228 -3.36	<b>11</b>	0103	0343 4.54	<b>19</b>	0314	0536 -3.71	<b>27</b>	0114	0357 4.18
WE	0605	0927 2.74	TH	0742	1009 -4.65	FR	0917	1155 2.74	SA	0754	1030 -4.27
	1224	1504 -3.80		1336	1610 3.31		1416	1713 -4.79		1400	1625 2.80
	1908	2214 3.15		1846	2138 -5.86		2114	2356 4.11		1907	2153 -4.75
<b>4</b>	0120	0351 -3.50	<b>12</b>	0150	0430 4.24	<b>20</b>	0400	0625 -4.02	<b>28</b>	0149	0433 3.95
TH	0734	1037 2.89	FR	0827	1053 -4.53	SA	1006	1240 2.82	SU	0828	1103 -4.19
	1316	1602 -4.40		1423	1704 3.13		1455	1753 -5.05		1438	1706 2.66
	2010	2309 3.82		1942	2235 -5.24		2151			1954	2242 -4.38
<b>5</b>	0237	0507 -3.90	<b>13</b>	0237	0519 3.89	<b>21</b>		0032 4.36	<b>29</b>	0226	0511 3.67
FR	0848	1136 3.07	SA	0912	1139 -4.37	SU	0438	0708 -4.27	MO	0904	1140 -4.17
	1405	1653 -5.10		1516	1803 2.90		1046	1320 2.91		1522	1801 2.57
	2103	2355 4.36		2047	2336 -4.56		1531	1827 -5.24		2055	2340 -3.94
							2226				
<b>6</b>	0340	0610 -4.29	<b>14</b>	0325	0613 3.52	<b>22</b>		0107 4.52	<b>30</b>	0309	0555 3.33
SA	0948	1227 3.22	SU	1000	1228 -4.20	MO	0512	0746 -4.43	TU	0942	1221 -4.20
	1451	1739 -5.77		1618	1907 2.72		1121	1355 2.99		1616	1912 2.65
	2153			2204			1606	1859 -5.36		2212	
							2300				
<b>7</b>		0040 4.73	<b>15</b>		0044 -3.91	<b>23</b>		0142 4.59			
SU	0434	0707 -4.57	MO	0420	0713 3.13	TU	0545	0821 -4.51			
	1039	1313 3.34		1050	1323 -4.06		1153	1425 3.03			
	1536	1824 -6.29		1730	2022 2.71		1641	1930 -5.39			
	2241			2333			2334				
<b>8</b>		0125 4.92	<b>16</b>		0202 -3.41	<b>24</b>		0216 4.58			
MO	0523	0758 -4.72	TU	0530	0831 2.79	WE	0616	0855 -4.52			
	1124	1357 3.41		1145	1426 -4.03		1224	1452 3.05			
	1620	1910 -6.58		1842	2137 2.97		1716	2001 -5.35			
	2329										

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°37' E TIME ZONE - 1000

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

## DECEMBER - 2021

Slack			Maximum			Slack			Maximum			Slack			Maximum			Slack			Maximum		
	Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate		Time	Rate			
1 WE	0403	0650	-3.49	9 TH	0001	0241	4.71	17 FR	0154	0405	-2.90	25 SA	0022	0305	4.33								
	1024	1309	-4.32		0644	0912	-4.74		0727	1007	2.03		0702	0939	-4.54								
	1720	2029	3.01		1244	1527	3.38		1220	1533	-4.39		1316	1549	2.98								
	2340				1746	2038	-6.10		1945	2233	3.69		1818	2102	-5.01								
2 TH	0514	0812	-3.19	10 FR	0049	0328	4.50	18 SA	0253	0509	-3.14	26 SU	0056	0340	4.20								
	1113	1403	-4.55		0725	0954	-4.86		0842	1110	1.99		0731	1008	-4.64								
	1827	2137	3.54		1332	1618	3.36		1310	1626	-4.51		1351	1626	3.00								
					1844	2133	-5.64		2031	2317	3.97		1903	2146	-4.78								
3 FR	0109	0327	-3.17	11 SA	0134	0415	4.25	19 SU	0341	0601	-3.48	27 MO	0131	0416	4.03								
	0644	0938	2.42		0805	1035	-4.93		0939	1203	2.14		0800	1038	-4.76								
	1208	1503	-4.92		1422	1707	3.28		1400	1713	-4.68		1428	1708	3.03								
	1931	2232	4.05		1945	2229	-5.05		2114	2357	4.20		1954	2235	-4.45								
4 SA	0227	0446	-3.45	12 SU	0217	0501	3.96	20 MO	0420	0646	-3.80	28 TU	0208	0453	3.80								
	0812	1051	2.49		0844	1116	-4.92		1024	1249	2.37		0829	1110	-4.90								
	1306	1602	-5.39		1513	1758	3.15		1448	1754	-4.88		1509	1756	3.09								
	2030	2323	4.48		2050	2328	-4.40		2155				2054	2329	-4.03								
5 SU	0331	0553	-3.83	13 MO	0301	0547	3.62	21 TU		0037	4.36	29 WE	0247	0532	3.50								
	0922	1153	2.70		0923	1159	-4.83		0456	0725	-4.04		0859	1144	-5.03								
	1404	1658	-5.87		1608	1851	3.04		1102	1329	2.61		1556	1853	3.21								
	2126				2204				1533	1831	-5.06		2204										
6 MO		0014	4.77	14 TU		0031	-3.78	22 WE		0115	4.45	30 TH		0030	-3.56								
	0425	0651	-4.15		0348	0637	3.21		0529	0802	-4.22		0334	0618	3.12								
	1019	1250	2.95		1003	1244	-4.68		1136	1407	2.79		0934	1226	-5.14								
	1500	1753	-6.24		1704	1949	3.02		1615	1907	-5.17		1650	1955	3.41								
	2219			2323			2311			2325													
7 TU		0103	4.88	15 WE		0141	-3.25	23 TH		0153	4.47	31 FR		0141	-3.15								
	0514	0742	-4.39		0444	0737	2.72		0602	0836	-4.35		0433	0715	2.65								
	1109	1342	3.16		1045	1336	-4.51		1210	1442	2.90		1017	1316	-5.21								
	1556	1847	-6.43		1801	2049	3.14		1656	1943	-5.21		1751	2059	3.70								
	2311						2347																
8 WE		0153	4.85	16 TH	0042	0254	-2.93	24 FR		0230	4.42												
	0600	0828	-4.58		0559	0853	2.28		0632	0908	-4.45												
	1157	1435	3.31		1130	1434	-4.40		1243	1516	2.96												
	1651	1942	-6.38		1856	2145	3.39		1737	2022	-5.15												

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 based on Port Welshpool Pier*

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

<b>AHD metres</b>	<b>Predominantly semi-diurnal tides</b>	<b>Chart Datum metres</b>
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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0258 2.43 0816 1.34 FR 1342 2.18 2034 0.40		<b>9</b> 0157 0.76 0757 2.63 SA 1445 0.34 2107 2.35		<b>17</b> 0433 2.60 1026 0.97 SU 1609 2.25 2231 0.41		<b>25</b> 0248 1.13 0834 2.39 MO 1534 0.53 2210 2.18	
<b>2</b> 0344 2.51 0910 1.24 SA 1440 2.22 2122 0.37		<b>10</b> 0246 0.90 0837 2.61 SU 1534 0.26 2211 2.35		<b>18</b> 0516 2.60 1118 0.86 MO 1708 2.25 2320 0.51		<b>26</b> 0329 1.23 0909 2.35 TU 1616 0.53 2303 2.16	
<b>3</b> 0426 2.57 1001 1.13 SU 1535 2.27 2209 0.36		<b>11</b> 0341 1.03 0925 2.56 MO 1629 0.22 2319 2.37		<b>19</b> 0554 2.58 1205 0.76 TU 1758 2.24		<b>27</b> 0415 1.31 0951 2.30 WE 1706 0.53	
<b>4</b> 0505 2.60 1051 1.01 MO 1630 2.30 2255 0.38		<b>12</b> 0443 1.15 1020 2.49 TU 1729 0.21		<b>20</b> 0003 0.62 0626 2.54 WE 1245 0.69 1842 2.22		<b>28</b> 0005 2.17 0514 1.38 TH 1043 2.24 1802 0.53	
<b>5</b> 0543 2.62 1140 0.87 TU 1724 2.33 2340 0.43		<b>13</b> 0030 2.40 0552 1.23 WE 1126 2.41 ● 1833 0.22		<b>21</b> 0041 0.74 0653 2.51 TH 1321 0.64 ○ 1923 2.21		<b>29</b> 0111 2.21 0621 1.39 FR 1148 2.20 ○ 1902 0.51	
<b>6</b> 0618 2.63 1227 0.73 WE 1818 2.34 ●		<b>14</b> 0139 2.45 0706 1.24 TH 1238 2.34 1938 0.25		<b>22</b> 0114 0.85 0718 2.47 FR 1354 0.59 2002 2.21		<b>30</b> 0212 2.28 0730 1.33 SA 1301 2.18 2001 0.48	
<b>7</b> 0025 0.52 0651 2.63 TH 1313 0.59 1913 2.35		<b>15</b> 0245 2.51 0818 1.18 FR 1350 2.29 2040 0.28		<b>23</b> 0145 0.95 0741 2.45 SA 1426 0.56 2042 2.20		<b>31</b> 0306 2.36 0836 1.22 SU 1415 2.20 2058 0.46	
<b>8</b> 0110 0.63 0722 2.63 FR 1358 0.45 2009 2.36		<b>16</b> 0344 2.57 0925 1.08 SA 1501 2.26 2138 0.34		<b>24</b> 0215 1.04 0805 2.42 SU 1459 0.53 2124 2.19			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0355 2.45 0938 1.05 MO 1525 2.25 2152 0.46		<b>9</b> 0326 1.02 0906 2.56 TU 1605 0.23 2252 2.36		<b>17</b> 0523 2.45 1137 0.69 WE 1746 2.27 2345 0.76		<b>25</b> 0337 1.19 0915 2.37 TH 1617 0.51 2301 2.18	
<b>2</b> 0440 2.53 1035 0.86 TU 1630 2.31 2245 0.49		<b>10</b> 0419 1.12 0958 2.47 WE 1701 0.31 2354 2.31		<b>18</b> 0553 2.45 1214 0.60 TH 1826 2.31		<b>26</b> 0428 1.24 1001 2.31 FR 1712 0.56	
<b>3</b> 0521 2.58 1128 0.66 WE 1733 2.38 2335 0.55		<b>11</b> 0522 1.20 1100 2.35 TH 1805 0.40		<b>19</b> 0020 0.83 0619 2.45 FR 1245 0.54 1903 2.34		<b>27</b> 0003 2.16 0532 1.27 SA 1107 2.23 ○ 1817 0.60	
<b>4</b> 0600 2.62 1216 0.48 TH 1830 2.45		<b>12</b> 0101 2.29 0637 1.23 FR 1214 2.23 ● 1913 0.47		<b>20</b> 0050 0.89 0643 2.46 SA 1315 0.48 ● 1938 2.37		<b>28</b> 0113 2.19 0649 1.21 SU 1233 2.18 1927 0.62	
<b>5</b> 0023 0.62 0635 2.64 FR 1302 0.33 ● 1924 2.48		<b>13</b> 0210 2.31 0754 1.18 SA 1333 2.16 2019 0.53		<b>21</b> 0118 0.94 0707 2.47 SU 1346 0.45 2013 2.37			
<b>6</b> 0109 0.71 0709 2.65 SA 1346 0.23 2015 2.49		<b>14</b> 0313 2.36 0904 1.07 SU 1453 2.15 2121 0.57		<b>22</b> 0147 0.99 0734 2.46 MO 1418 0.44 2049 2.35			
<b>7</b> 0153 0.81 0744 2.65 SU 1430 0.18 2105 2.47		<b>15</b> 0405 2.41 1005 0.92 MO 1604 2.18 2216 0.62		<b>23</b> 0219 1.05 0805 2.44 TU 1453 0.45 2128 2.30			
<b>8</b> 0238 0.91 0822 2.62 MO 1515 0.18 2157 2.42		<b>16</b> 0447 2.44 1055 0.79 TU 1700 2.23 2304 0.69		<b>24</b> 0255 1.12 0837 2.41 WE 1532 0.47 2211 2.24			

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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

## MARCH - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0217 2.26 0805 1.07 MO 1402 2.21 2033 0.63		<b>9</b> 0227 0.90 0808 2.58 TU 1454 0.23 2133 2.47		<b>17</b> 0406 2.29 1021 0.72 WE 1646 2.31 2242 0.90		<b>25</b> 0227 1.06 0808 2.44 TH 1452 0.47 2126 2.34	
<b>2</b> 0315 2.36 0914 0.85 TU 1524 2.31 2136 0.64		<b>10</b> 0311 0.98 0851 2.50 WE 1541 0.35 2219 2.36		<b>18</b> 0442 2.33 1059 0.61 TH 1727 2.39 2320 0.93		<b>26</b> 0306 1.09 0845 2.40 FR 1535 0.53 2208 2.28	
<b>3</b> 0407 2.46 1015 0.61 WE 1635 2.44 2234 0.65		<b>11</b> 0400 1.06 0941 2.38 TH 1633 0.49 2313 2.26		<b>19</b> 0512 2.36 1132 0.53 FR 1803 2.46 2353 0.95		<b>27</b> 0356 1.10 0935 2.33 SA 1628 0.63 2301 2.24	
<b>4</b> 0454 2.55 1109 0.40 TH 1737 2.56 2328 0.68		<b>12</b> 0459 1.14 1042 2.23 FR 1736 0.64		<b>20</b> 0538 2.39 1203 0.47 SA 1838 2.51		<b>28</b> 0459 1.09 1045 2.25 SU 1735 0.74	
<b>5</b> 0537 2.61 1158 0.24 FR 1832 2.64		<b>13</b> 0015 2.19 0613 1.16 SA 1200 2.11 ● 1847 0.75		<b>21</b> 0023 0.96 0604 2.43 SU 1234 0.43 1910 2.53		<b>29</b> 0009 2.23 0617 1.00 MO 1223 2.21 ○ 1853 0.82	
<b>6</b> 0017 0.72 0616 2.64 SA 1244 0.14 ● 1922 2.67		<b>14</b> 0124 2.17 0730 1.11 SU 1328 2.06 1957 0.81		<b>22</b> 0051 0.98 0633 2.46 MO 1306 0.40 ○ 1943 2.52		<b>30</b> 0120 2.27 0737 0.82 TU 1400 2.30 2009 0.86	
<b>7</b> 0102 0.77 0653 2.65 SU 1328 0.12 2008 2.64		<b>15</b> 0230 2.20 0839 0.99 MO 1451 2.11 2100 0.85		<b>23</b> 0120 0.99 0703 2.46 TU 1340 0.41 2015 2.48		<b>31</b> 0226 2.35 0847 0.59 WE 1523 2.46 2117 0.86	
<b>8</b> 0145 0.84 0730 2.63 MO 1410 0.15 2051 2.57		<b>16</b> 0324 2.25 0935 0.84 TU 1557 2.21 2156 0.87		<b>24</b> 0152 1.02 0735 2.46 WE 1415 0.43 2049 2.41			

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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

## APRIL - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0325 2.45 0948 0.36 TH 1632 2.63 2219 0.85		<b>9</b> 0346 1.02 0930 2.26 FR 1605 0.73 2231 2.28		<b>17</b> 0421 2.31 1046 0.50 SA 1735 2.61 2320 1.10		<b>25</b> 0334 0.95 0923 2.33 SU 1555 0.76 2212 2.40	
<b>2</b> 0418 2.53 1043 0.19 FR 1730 2.76 2314 0.83		<b>10</b> 0444 1.07 1034 2.12 SA 1706 0.91 2326 2.18		<b>18</b> 0453 2.36 1120 0.46 SU 1808 2.64 2350 1.08		<b>26</b> 0438 0.88 1044 2.28 MO 1702 0.92 2314 2.38	
<b>3</b> 0508 2.59 1133 0.10 SA 1822 2.82		<b>11</b> 0552 1.07 1156 2.03 SU 1817 1.04		<b>19</b> 0525 2.41 1154 0.43 MO 1840 2.64		<b>27</b> 0554 0.75 1224 2.31 TU 1823 1.05 ○	
<b>4</b> 0003 0.83 0553 2.62 SU 1220 0.09 ● 1908 2.81		<b>12</b> 0029 2.13 0701 1.01 MO 1324 2.05 ● 1929 1.12		<b>20</b> 0020 1.07 0558 2.44 TU 1228 0.43 ● 1911 2.61		<b>28</b> 0025 2.38 0710 0.57 WE 1356 2.45 1944 1.09	
<b>5</b> 0049 0.84 0634 2.62 MO 1304 0.14 1950 2.74		<b>13</b> 0131 2.12 0803 0.90 TU 1440 2.17 2032 1.14		<b>21</b> 0052 1.06 0631 2.45 WE 1302 0.45 1942 2.57		<b>29</b> 0136 2.42 0818 0.37 TH 1514 2.64 2054 1.08	
<b>6</b> 0133 0.87 0715 2.59 TU 1347 0.25 2030 2.64		<b>14</b> 0227 2.15 0854 0.77 WE 1537 2.31 2126 1.14		<b>22</b> 0125 1.05 0705 2.45 TH 1338 0.48 2013 2.51		<b>30</b> 0240 2.49 0919 0.20 FR 1618 2.81 2157 1.04	
<b>7</b> 0215 0.91 0756 2.52 WE 1430 0.39 2107 2.51		<b>15</b> 0312 2.20 0936 0.66 TH 1622 2.44 2211 1.13		<b>23</b> 0201 1.04 0742 2.43 FR 1416 0.53 2045 2.47			
<b>8</b> 0259 0.96 0840 2.40 TH 1515 0.55 2145 2.39		<b>16</b> 0349 2.25 1013 0.57 FR 1700 2.54 2247 1.12		<b>24</b> 0244 1.01 0825 2.40 SA 1500 0.63 2123 2.43			

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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

MAY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0340 2.54 1015 0.12 SA 1714 2.90 2254 0.99		<b>9</b> 0428 0.99 1029 2.07 SU 1631 1.16 2232 2.24		<b>17</b> 0408 2.36 1041 0.48 MO 1738 2.70 2315 1.20		<b>25</b> 0423 0.66 1048 2.35 TU 1639 1.11 2232 2.55	
<b>2</b> 0435 2.59 1106 0.11 SU 1803 2.92 2345 0.95		<b>10</b> 0524 0.98 1147 2.05 MO 1738 1.31 2322 2.17		<b>18</b> 0446 2.40 1117 0.48 TU 1809 2.69 2350 1.17		<b>26</b> 0532 0.53 1220 2.43 WE 1757 1.23 ○ 2341 2.52	
<b>3</b> 0527 2.60 1155 0.17 MO 1848 2.87		<b>11</b> 0622 0.92 1306 2.12 TU 1846 1.39		<b>19</b> 0525 2.43 1153 0.49 WE 1840 2.66		<b>27</b> 0644 0.38 1344 2.59 TH 1915 1.28	
<b>4</b> 0033 0.92 0615 2.58 TU 1241 0.28 ● 1929 2.78		<b>12</b> 0020 2.13 0716 0.83 WE 1413 2.26 ● 1949 1.40		<b>20</b> 0026 1.13 0602 2.44 TH 1230 0.52 ● 1910 2.63		<b>28</b> 0052 2.53 0750 0.25 FR 1456 2.75 2027 1.25	
<b>5</b> 0119 0.92 0700 2.52 WE 1325 0.43 2004 2.67		<b>13</b> 0116 2.14 0804 0.72 TH 1505 2.42 2043 1.38		<b>21</b> 0103 1.07 0642 2.43 FR 1307 0.57 1939 2.61		<b>29</b> 0200 2.55 0851 0.17 SA 1558 2.86 2131 1.18	
<b>6</b> 0204 0.93 0745 2.43 TH 1407 0.60 2039 2.55		<b>14</b> 0206 2.19 0846 0.63 FR 1549 2.55 2128 1.33		<b>22</b> 0144 1.00 0725 2.42 SA 1347 0.65 2010 2.60		<b>30</b> 0303 2.57 0948 0.16 SU 1652 2.92 2230 1.11	
<b>7</b> 0248 0.95 0832 2.30 FR 1450 0.79 2113 2.44		<b>15</b> 0249 2.25 0926 0.56 SA 1629 2.64 2206 1.29		<b>23</b> 0229 0.90 0817 2.38 SU 1435 0.78 2046 2.59		<b>31</b> 0405 2.57 1042 0.22 MO 1741 2.91 2326 1.04	
<b>8</b> 0336 0.98 0925 2.17 SA 1536 0.98 2150 2.33		<b>16</b> 0330 2.31 1003 0.51 SU 1704 2.68 2242 1.24		<b>24</b> 0321 0.79 0924 2.35 MO 1531 0.94 2133 2.58			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0504 2.56 1132 0.32 TU 1825 2.86		<b>9</b> 0535 0.84 1230 2.19 WE 1749 1.54 2301 2.23		<b>17</b> 0500 2.41 1127 0.57 TH 1813 2.67		<b>25</b> 0617 0.30 1322 2.61 FR 1846 1.36 ○	
<b>2</b> 0017 0.98 0559 2.51 WE 1219 0.46 ● 1903 2.77		<b>10</b> 0626 0.78 1332 2.31 TH 1851 1.56 ●		<b>18</b> 0008 1.11 0545 2.41 FR 1205 0.62 ● 1842 2.67		<b>26</b> 0017 2.58 0723 0.25 SA 1431 2.71 1959 1.33	
<b>3</b> 0106 0.94 0649 2.44 TH 1304 0.63 1938 2.68		<b>11</b> 0000 2.22 0715 0.70 FR 1425 2.44 1946 1.53		<b>19</b> 0050 1.00 0632 2.41 SA 1246 0.69 1911 2.68		<b>27</b> 0129 2.56 0826 0.25 SU 1534 2.78 2106 1.25	
<b>4</b> 0152 0.92 0737 2.34 FR 1346 0.80 2010 2.58		<b>12</b> 0059 2.24 0800 0.63 SA 1512 2.55 2035 1.47		<b>20</b> 0134 0.87 0725 2.41 SU 1330 0.80 1942 2.70		<b>28</b> 0237 2.54 0925 0.28 MO 1629 2.82 2210 1.15	
<b>5</b> 0236 0.91 0825 2.24 SA 1427 0.98 2040 2.49		<b>13</b> 0153 2.28 0845 0.58 SU 1554 2.62 2120 1.41		<b>21</b> 0221 0.73 0823 2.40 MO 1420 0.93 2020 2.71		<b>29</b> 0345 2.51 1021 0.37 TU 1717 2.82 2308 1.05	
<b>6</b> 0318 0.91 0916 2.16 SU 1507 1.16 2109 2.41		<b>14</b> 0244 2.32 0927 0.54 MO 1632 2.66 2202 1.34		<b>22</b> 0312 0.59 0930 2.40 TU 1516 1.08 2107 2.70		<b>30</b> 0450 2.47 1114 0.48 WE 1800 2.78	
<b>7</b> 0401 0.90 1015 2.11 MO 1553 1.32 2138 2.33		<b>15</b> 0330 2.36 1008 0.53 TU 1707 2.68 2245 1.27		<b>23</b> 0409 0.47 1047 2.43 WE 1620 1.23 2202 2.66			
<b>8</b> 0447 0.88 1122 2.12 TU 1647 1.45 2214 2.28		<b>16</b> 0415 2.39 1047 0.54 WE 1741 2.68 2326 1.20		<b>24</b> 0511 0.38 1207 2.51 TH 1730 1.33 2307 2.62			

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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

JULY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0002 0.96 0549 2.43 TH 1202 0.62 1838 2.73		<b>9</b> 0533 0.72 1240 2.30 FR 1744 1.57 2300 2.31		<b>17</b> 0545 2.41 1154 0.71 SA 1820 2.69 ☉		<b>25</b> 0700 0.35 1403 2.56 SU 1933 1.32	
<b>2</b> 0051 0.89 0640 2.37 FR 1246 0.78 ☉ 1910 2.66		<b>10</b> 0626 0.69 1337 2.37 SA 1845 1.56 ●		<b>18</b> 0043 0.79 0641 2.43 SU 1238 0.80 1850 2.71		<b>26</b> 0107 2.47 0805 0.39 MO 1508 2.61 2046 1.23	
<b>3</b> 0134 0.84 0728 2.31 SA 1326 0.94 1938 2.59		<b>11</b> 0001 2.29 0717 0.65 SU 1430 2.45 1944 1.52		<b>19</b> 0127 0.64 0736 2.45 MO 1324 0.91 1923 2.74		<b>27</b> 0222 2.42 0907 0.44 TU 1604 2.66 2153 1.11	
<b>4</b> 0214 0.81 0813 2.25 SU 1402 1.09 2004 2.53		<b>12</b> 0105 2.30 0808 0.61 MO 1516 2.52 2038 1.44		<b>20</b> 0212 0.51 0832 2.46 TU 1413 1.02 2002 2.75		<b>28</b> 0337 2.39 1006 0.52 WE 1653 2.68 2252 0.97	
<b>5</b> 0250 0.79 0858 2.21 MO 1437 1.22 2028 2.47		<b>13</b> 0205 2.31 0856 0.58 TU 1600 2.57 2130 1.34		<b>21</b> 0300 0.41 0931 2.47 WE 1504 1.13 2047 2.74		<b>29</b> 0445 2.38 1059 0.62 TH 1733 2.67 2343 0.86	
<b>6</b> 0326 0.78 0946 2.20 TU 1513 1.34 2052 2.43		<b>14</b> 0302 2.34 0942 0.58 WE 1638 2.61 2221 1.22		<b>22</b> 0351 0.34 1036 2.47 TH 1601 1.24 2140 2.69		<b>30</b> 0542 2.37 1146 0.74 FR 1808 2.64	
<b>7</b> 0403 0.76 1040 2.20 WE 1554 1.45 2125 2.39		<b>15</b> 0357 2.36 1026 0.60 TH 1715 2.64 2310 1.09		<b>23</b> 0448 0.32 1145 2.49 FR 1705 1.32 2241 2.62		<b>31</b> 0027 0.78 0630 2.35 SA 1228 0.87 ☉ 1838 2.60	
<b>8</b> 0445 0.74 1139 2.24 TH 1645 1.53 2208 2.35		<b>16</b> 0451 2.39 1110 0.64 FR 1748 2.67 2357 0.94		<b>24</b> 0552 0.33 1255 2.51 SA 1818 1.36 ☉ 2352 2.54			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0105 0.72 0712 2.33 SU 1303 0.98 1903 2.56		<b>9</b> 0633 0.67 1338 2.30 MO 1855 1.45		<b>17</b> 0115 0.38 0743 2.55 TU 1321 0.93 1909 2.73		<b>25</b> 0221 2.28 0853 0.62 WE 1535 2.47 2134 0.96	
<b>2</b> 0140 0.69 0751 2.32 MO 1335 1.09 1927 2.54		<b>10</b> 0025 2.27 0731 0.66 TU 1433 2.37 2001 1.35		<b>18</b> 0158 0.31 0831 2.54 WE 1406 1.01 1948 2.73		<b>26</b> 0339 2.31 0951 0.68 TH 1622 2.51 2230 0.82	
<b>3</b> 0212 0.66 0830 2.31 TU 1405 1.17 1950 2.52		<b>11</b> 0139 2.27 0828 0.64 WE 1522 2.45 2104 1.20		<b>19</b> 0243 0.28 0922 2.50 TH 1452 1.09 2032 2.70		<b>27</b> 0441 2.35 1043 0.75 FR 1700 2.52 2315 0.71	
<b>4</b> 0244 0.64 0909 2.30 WE 1436 1.25 2017 2.50		<b>12</b> 0249 2.30 0921 0.64 TH 1606 2.53 2201 1.02		<b>20</b> 0331 0.30 1015 2.45 FR 1544 1.17 2123 2.63		<b>28</b> 0530 2.38 1127 0.83 SA 1732 2.51 2354 0.64	
<b>5</b> 0318 0.64 0951 2.28 TH 1512 1.32 2050 2.47		<b>13</b> 0356 2.36 1013 0.67 FR 1647 2.59 2255 0.83		<b>21</b> 0426 0.36 1115 2.39 SA 1643 1.24 2222 2.52		<b>29</b> 0611 2.41 1205 0.91 SU 1800 2.51	
<b>6</b> 0357 0.65 1039 2.26 FR 1553 1.40 2129 2.42		<b>14</b> 0458 2.42 1102 0.71 SA 1725 2.64 2344 0.65		<b>22</b> 0529 0.44 1221 2.36 SU 1755 1.27 ○ 2335 2.40		<b>30</b> 0028 0.58 0648 2.42 MO 1237 0.98 ● 1825 2.51	
<b>7</b> 0443 0.66 1134 2.24 SA 1645 1.46 2215 2.37		<b>15</b> 0557 2.49 1150 0.78 SU 1800 2.68		<b>23</b> 0638 0.52 1331 2.37 MO 1915 1.23		<b>31</b> 0059 0.55 0723 2.43 TU 1305 1.03 1849 2.52	
<b>8</b> 0535 0.67 1237 2.25 SU 1746 1.48 ● 2314 2.31		<b>16</b> 0030 0.50 0651 2.53 MO 1237 0.85 ● 1834 2.71		<b>24</b> 0058 2.31 0747 0.57 TU 1438 2.42 2030 1.12			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0130 0.52 0757 2.43 WE 1333 1.07 1916 2.52		<b>9</b> 0130 2.23 0801 0.75 TH 1438 2.35 2040 0.93		<b>17</b> 0223 0.26 0904 2.50 FR 1441 1.00 2021 2.59		<b>25</b> 0427 2.41 1021 0.89 SA 1618 2.36 2237 0.56	
<b>2</b> 0201 0.52 0830 2.40 TH 1403 1.11 1946 2.51		<b>10</b> 0249 2.32 0903 0.75 FR 1530 2.45 2140 0.71		<b>18</b> 0310 0.36 0949 2.40 SA 1530 1.06 2112 2.48		<b>26</b> 0509 2.47 1102 0.92 SU 1650 2.39 2312 0.50	
<b>3</b> 0235 0.53 0907 2.35 FR 1437 1.17 2019 2.47		<b>11</b> 0400 2.45 1001 0.76 SA 1615 2.54 2234 0.50		<b>19</b> 0403 0.49 1041 2.31 SU 1628 1.12 2214 2.34		<b>27</b> 0545 2.52 1137 0.95 MO 1718 2.42 2344 0.46	
<b>4</b> 0313 0.57 0947 2.28 SA 1515 1.23 2056 2.42		<b>12</b> 0503 2.57 1055 0.78 SU 1659 2.60 2324 0.33		<b>20</b> 0506 0.63 1143 2.24 MO 1741 1.13 2332 2.21		<b>28</b> 0619 2.54 1207 0.97 TU 1745 2.45	
<b>5</b> 0355 0.62 1034 2.22 SU 1601 1.29 2139 2.36		<b>13</b> 0559 2.65 1145 0.81 MO 1740 2.65		<b>21</b> 0618 0.74 1251 2.22 TU 1859 1.07 ○		<b>29</b> 0015 0.43 0651 2.55 WE 1234 0.98 ● 1814 2.48	
<b>6</b> 0445 0.67 1131 2.18 MO 1700 1.31 2238 2.28		<b>14</b> 0011 0.23 0649 2.68 TU 1230 0.85 ● 1817 2.67		<b>22</b> 0101 2.16 0730 0.81 WE 1358 2.24 2010 0.94		<b>30</b> 0047 0.42 0723 2.53 TH 1303 0.99 1845 2.48	
<b>7</b> 0547 0.72 1237 2.19 TU 1815 1.27 ● 2359 2.22		<b>15</b> 0056 0.19 0737 2.66 WE 1315 0.90 1856 2.68		<b>23</b> 0227 2.21 0836 0.84 TH 1455 2.29 2109 0.78			
<b>8</b> 0655 0.74 1341 2.25 WE 1931 1.14		<b>16</b> 0139 0.20 0821 2.60 TH 1357 0.95 1937 2.65		<b>24</b> 0335 2.31 0933 0.86 FR 1541 2.33 2157 0.65			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0120 0.44 0755 2.48 FR 1333 1.02 1917 2.46		<b>9</b> 0250 2.43 0845 0.90 SA 1447 2.40 2115 0.38		<b>17</b> 0249 0.50 0921 2.39 SU 1523 0.94 2110 2.29		<b>25</b> 0442 2.58 1031 1.03 MO 1603 2.29 2229 0.41	
<b>2</b> 0155 0.48 0828 2.40 SA 1407 1.05 1951 2.42		<b>10</b> 0359 2.61 0945 0.88 SU 1540 2.49 2209 0.20		<b>18</b> 0341 0.68 1006 2.27 MO 1621 0.97 2215 2.15		<b>26</b> 0516 2.62 1104 1.02 TU 1635 2.34 2301 0.38	
<b>3</b> 0231 0.53 0903 2.32 SU 1445 1.08 2028 2.37		<b>11</b> 0458 2.74 1041 0.85 MO 1630 2.56 2300 0.10		<b>19</b> 0443 0.86 1100 2.18 TU 1729 0.96 2338 2.07		<b>27</b> 0549 2.64 1134 1.00 WE 1707 2.38 2335 0.37	
<b>4</b> 0312 0.61 0944 2.25 MO 1531 1.10 2114 2.29		<b>12</b> 0550 2.81 1131 0.84 TU 1716 2.60 2348 0.07		<b>20</b> 0554 0.99 1202 2.13 WE 1837 0.88		<b>28</b> 0621 2.62 1204 0.98 TH 1741 2.41	
<b>5</b> 0401 0.70 1032 2.20 TU 1630 1.09 2220 2.21		<b>13</b> 0638 2.80 1219 0.84 WE 1801 2.62 ●		<b>21</b> 0105 2.10 0706 1.06 TH 1306 2.12 ○ 1940 0.76		<b>29</b> 0009 0.38 0651 2.58 FR 1235 0.98 ● 1815 2.40	
<b>6</b> 0504 0.81 1134 2.19 WE 1745 1.01 ● 2354 2.18		<b>14</b> 0034 0.11 0722 2.74 TH 1304 0.85 1845 2.60		<b>22</b> 0220 2.22 0812 1.08 FR 1403 2.14 2032 0.64		<b>30</b> 0044 0.42 0722 2.53 SA 1308 0.98 1850 2.38	
<b>7</b> 0620 0.89 1244 2.22 TH 1904 0.83		<b>15</b> 0119 0.21 0803 2.63 FR 1348 0.87 1929 2.53		<b>23</b> 0317 2.37 0907 1.06 SA 1450 2.19 2116 0.53		<b>31</b> 0118 0.47 0753 2.46 SU 1344 0.97 1927 2.34	
<b>8</b> 0130 2.27 0737 0.91 FR 1349 2.30 2014 0.60		<b>16</b> 0203 0.34 0842 2.51 SA 1433 0.91 2016 2.43		<b>24</b> 0403 2.49 0953 1.05 SU 1530 2.24 2154 0.46			

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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

## NOVEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0155 0.54 0824 2.40 MO 1423 0.95 2008 2.28		<b>9</b> 0444 2.85 1022 0.93 TU 1600 2.53 2236 0.00		<b>17</b> 0415 1.06 1015 2.20 WE 1707 0.78 2333 2.03		<b>25</b> 0522 2.65 1104 1.06 TH 1634 2.31 2302 0.37	
<b>2</b> 0236 0.65 0859 2.35 TU 1511 0.90 2102 2.22		<b>10</b> 0534 2.88 1115 0.87 WE 1655 2.56 2326 0.04		<b>18</b> 0521 1.20 1105 2.12 TH 1804 0.73		<b>26</b> 0554 2.63 1138 1.03 FR 1712 2.32 2337 0.40	
<b>3</b> 0327 0.78 0942 2.31 WE 1611 0.83 2218 2.17		<b>11</b> 0621 2.85 1206 0.83 TH 1747 2.55 ●		<b>19</b> 0050 2.11 0630 1.28 FR 1202 2.08 ○ 1859 0.65		<b>27</b> 0624 2.59 1213 0.99 SA 1750 2.31 ●	
<b>4</b> 0430 0.93 1039 2.28 TH 1722 0.70 2356 2.21		<b>12</b> 0015 0.15 0703 2.76 FR 1254 0.80 1837 2.50		<b>20</b> 0156 2.25 0733 1.29 SA 1300 2.07 1947 0.56		<b>28</b> 0013 0.45 0653 2.55 SU 1249 0.95 1830 2.29	
<b>5</b> 0548 1.06 1148 2.28 FR 1837 0.52 ●		<b>13</b> 0100 0.29 0743 2.65 SA 1342 0.79 1926 2.40		<b>21</b> 0248 2.40 0829 1.26 SU 1351 2.11 2031 0.48		<b>29</b> 0048 0.51 0722 2.52 MO 1328 0.88 1913 2.26	
<b>6</b> 0127 2.36 0710 1.10 SA 1300 2.32 1945 0.32		<b>14</b> 0145 0.47 0818 2.53 SU 1430 0.79 2016 2.28		<b>22</b> 0332 2.52 0915 1.21 MO 1436 2.16 2111 0.41		<b>30</b> 0127 0.60 0750 2.49 TU 1410 0.80 2002 2.23	
<b>7</b> 0244 2.57 0822 1.07 SU 1404 2.39 2047 0.14		<b>15</b> 0230 0.67 0854 2.41 MO 1518 0.80 2113 2.15		<b>23</b> 0412 2.61 0955 1.15 TU 1517 2.22 2149 0.38			
<b>8</b> 0347 2.74 0925 1.00 MO 1504 2.47 2143 0.03		<b>16</b> 0319 0.87 0931 2.30 TU 1611 0.80 2217 2.06		<b>24</b> 0448 2.65 1030 1.10 WE 1556 2.28 2226 0.36			

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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

## DECEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0211 0.73 0823 2.47 WE 1459 0.69 2104 2.20		<b>9</b> 0516 2.85 1100 0.90 TH 1640 2.49 2308 0.12		<b>17</b> 0436 1.30 1004 2.19 FR 1720 0.62		<b>25</b> 0530 2.58 1118 1.04 SA 1652 2.24 2314 0.47	
<b>2</b> 0303 0.88 0904 2.45 TH 1556 0.56 2222 2.21		<b>10</b> 0602 2.82 1154 0.80 FR 1739 2.46 2359 0.25		<b>18</b> 0014 2.13 0535 1.39 SA 1049 2.13 1810 0.58		<b>26</b> 0600 2.57 1159 0.95 SU 1738 2.24 2351 0.52	
<b>3</b> 0406 1.05 0957 2.42 FR 1700 0.43 2350 2.29		<b>11</b> 0645 2.75 1245 0.73 SA 1834 2.40 ●		<b>19</b> 0114 2.23 0636 1.42 SU 1145 2.10 ○ 1859 0.54		<b>27</b> 0630 2.56 1238 0.85 MO 1824 2.25 ●	
<b>4</b> 0520 1.18 1102 2.40 SA 1809 0.29 ●		<b>12</b> 0046 0.42 0721 2.66 SU 1334 0.67 1926 2.31		<b>20</b> 0208 2.34 0733 1.40 MO 1245 2.10 1946 0.49		<b>28</b> 0030 0.59 0658 2.56 TU 1319 0.73 1914 2.25	
<b>5</b> 0114 2.44 0639 1.23 SU 1215 2.39 1917 0.15		<b>13</b> 0131 0.60 0755 2.56 MO 1420 0.65 2016 2.22		<b>21</b> 0257 2.44 0825 1.34 TU 1342 2.13 2032 0.44		<b>29</b> 0112 0.69 0725 2.56 WE 1401 0.59 2008 2.25	
<b>6</b> 0226 2.61 0754 1.19 MO 1326 2.42 2020 0.05		<b>14</b> 0215 0.79 0827 2.46 TU 1505 0.64 2108 2.13		<b>22</b> 0341 2.52 0912 1.27 WE 1433 2.17 2115 0.42		<b>30</b> 0158 0.82 0758 2.57 TH 1448 0.46 2108 2.27	
<b>7</b> 0330 2.75 0900 1.11 TU 1432 2.46 2119 0.01		<b>15</b> 0259 0.98 0858 2.36 WE 1548 0.64 2205 2.08		<b>23</b> 0421 2.56 0956 1.19 TH 1521 2.21 2157 0.42		<b>31</b> 0249 0.96 0839 2.57 FR 1540 0.34 2217 2.29	
<b>8</b> 0426 2.83 1001 1.00 WE 1537 2.48 2215 0.04		<b>16</b> 0345 1.16 0930 2.27 TH 1633 0.63 2308 2.07		<b>24</b> 0457 2.58 1038 1.12 FR 1607 2.23 2236 0.43			

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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 (earlier) later HM	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<b>Portland</b>	<b>0 00</b>	<b>1.1</b>	<b>0.8</b>	<b>0.5</b>	<b>0.2</b>
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 2021

PORTLAND							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
<b>Apr</b>	<b>8</b>	1400	0.60	<b>Nov</b>	<b>15</b>	0050	0.69
		1615	0.59			0441	0.66
<b>Oct</b>	<b>18</b>	0002	0.70		<b>30</b>	0256	0.71
		0518	0.52			0340	0.71

# Portland Datums

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

<b>AHD metres</b>	<b>Predominantly diurnal tides</b>	<b>Chart Datum metres</b>
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

# PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## JANUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0154 1.23 0916 0.54 FR 1231 0.62 1836 0.22		<b>9</b> 0046 0.82 1201 0.37 SA		<b>17</b> 0231 1.11 0909 0.49 SU 1351 0.72 1947 0.26		<b>25</b> 0012 0.94 1357 0.40 MO	
<b>2</b> 0221 1.21 0932 0.55 SA 1300 0.64 1905 0.22		<b>10</b> 0012 0.94 1319 0.33 SU		<b>18</b> 0252 1.06 0928 0.45 MO 1436 0.74 2019 0.33		<b>26</b> 0024 1.03 1548 0.38 TU	
<b>3</b> 0248 1.17 0949 0.55 SU 1333 0.65 1934 0.26		<b>11</b> 0019 1.05 1454 0.29 MO		<b>19</b> 0313 1.01 0950 0.41 TU 1521 0.74 2048 0.42		<b>27</b> 0043 1.10 0923 0.48 WE 1119 0.49 1654 0.33	
<b>4</b> 0313 1.10 1009 0.54 MO 1411 0.66 2003 0.31		<b>12</b> 0037 1.13 1604 0.24 TU		<b>20</b> 0330 0.95 1013 0.38 WE 1611 0.73 2115 0.51		<b>28</b> 0105 1.16 0900 0.48 TH 1200 0.53 1741 0.28	
<b>5</b> 0334 1.03 1030 0.52 TU 1458 0.66 2032 0.40		<b>13</b> 0100 1.18 1702 0.21 WE ●		<b>21</b> 0340 0.89 1034 0.37 TH 1715 0.72 ● 2134 0.62		<b>29</b> 0129 1.19 0903 0.49 FR 1230 0.57 ○ 1820 0.25	
<b>6</b> 0351 0.94 1051 0.49 WE 1601 0.66 ● 2058 0.51		<b>14</b> 0126 1.19 0933 0.55 TH 1110 0.56 1752 0.18		<b>22</b> 0336 0.84 1057 0.37 FR 1923 0.73 2127 0.72		<b>30</b> 0153 1.19 0907 0.49 SA 1259 0.62 1855 0.23	
<b>7</b> 0359 0.86 1113 0.45 TH 1757 0.67 2102 0.64		<b>15</b> 0149 1.18 0917 0.56 FR 1215 0.62 1834 0.18		<b>23</b> 0244 0.81 1121 0.37 SA		<b>31</b> 0215 1.17 0910 0.48 SU 1329 0.67 1928 0.24	
<b>8</b> 0323 0.79 1133 0.41 FR		<b>16</b> 0210 1.15 0900 0.54 SA 1305 0.68 1913 0.21		<b>24</b> 0030 0.85 1152 0.39 SU			

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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

## FEBRUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0235 1.11 0916 0.46 MO 1401 0.72 1958 0.28		<b>9</b> 0046 1.02 1214 0.32 TU		<b>17</b> 0243 0.97 0909 0.30 WE 1514 0.87 2058 0.44		<b>25</b> 0045 1.07 0858 0.44 TH 1230 0.49 1706 0.40	
<b>2</b> 0251 1.04 0926 0.43 TU 1438 0.76 2027 0.35		<b>10</b> 0056 1.07 1632 0.32 WE		<b>18</b> 0256 0.92 0924 0.28 TH 1549 0.86 2120 0.52		<b>26</b> 0100 1.12 0834 0.45 FR 1228 0.56 1756 0.33	
<b>3</b> 0301 0.97 0936 0.38 WE 1519 0.79 2053 0.45		<b>11</b> 0107 1.10 0912 0.49 TH 1143 0.51 1741 0.28		<b>19</b> 0301 0.88 0939 0.28 FR 1628 0.85 2140 0.61		<b>27</b> 0118 1.14 0829 0.45 SA 1247 0.64 ○ 1835 0.29	
<b>4</b> 0309 0.90 0945 0.32 TH 1608 0.80 2116 0.56		<b>12</b> 0121 1.11 0843 0.50 FR 1223 0.60 ● 1825 0.25		<b>20</b> 0259 0.84 0954 0.28 SA 1716 0.82 ● 2149 0.70		<b>28</b> 0136 1.12 0823 0.44 SU 1311 0.72 1911 0.27	
<b>5</b> 0305 0.85 0957 0.27 FR 1712 0.80 ● 2131 0.68		<b>13</b> 0137 1.10 0828 0.48 SA 1257 0.69 1901 0.24		<b>21</b> 0230 0.82 1009 0.30 SU 1859 0.79 2105 0.79			
<b>6</b> 0237 0.83 1015 0.24 SA 1911 0.79 2054 0.79		<b>14</b> 0153 1.08 0825 0.43 SU 1330 0.77 1934 0.26		<b>22</b> 0124 0.84 1022 0.33 MO			
<b>7</b> 0143 0.86 1041 0.24 SU		<b>15</b> 0209 1.06 0836 0.38 MO 1404 0.82 2004 0.30		<b>23</b> 0028 0.91 1028 0.37 TU			
<b>8</b> 0043 0.94 1114 0.26 MO		<b>16</b> 0226 1.02 0852 0.34 TU 1439 0.85 2032 0.36		<b>24</b> 0031 1.00 0956 0.41 WE			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0153 1.08 0822 0.42 MO 1337 0.81 1944 0.30		<b>9</b> 0055 0.93 1017 0.29 TU		<b>17</b> 0153 0.95 0810 0.28 WE 1427 1.01 2033 0.43		<b>25</b> 0010 0.97 0857 0.43 TH	
<b>2</b> 0205 1.01 0827 0.38 TU 1406 0.88 2014 0.35		<b>10</b> 0045 0.97 1003 0.40 WE		<b>18</b> 0207 0.91 0822 0.26 TH 1455 1.02 2058 0.49		<b>26</b> 0022 1.03 0800 0.46 FR 1303 0.59 1718 0.48	
<b>3</b> 0212 0.94 0833 0.31 WE 1438 0.94 2041 0.43		<b>11</b> 0045 1.00 0847 0.48 TH 1215 0.52 1714 0.42		<b>19</b> 0216 0.88 0835 0.25 FR 1523 1.02 2120 0.56		<b>27</b> 0036 1.06 0743 0.47 SA 1234 0.68 1803 0.42	
<b>4</b> 0216 0.89 0839 0.24 TH 1513 0.97 2103 0.53		<b>12</b> 0047 1.01 0757 0.49 FR 1218 0.64 1800 0.36		<b>20</b> 0223 0.85 0849 0.25 SA 1553 0.99 2139 0.64		<b>28</b> 0050 1.05 0730 0.46 SU 1245 0.79 1842 0.38	
<b>5</b> 0220 0.86 0849 0.18 FR 1551 0.96 2118 0.63		<b>13</b> 0056 1.02 0740 0.46 SA 1240 0.75 ● 1836 0.33		<b>21</b> 0221 0.82 0905 0.26 SU 1626 0.94 2151 0.72		<b>29</b> 0103 1.01 0724 0.43 MO 1306 0.91 ○ 1916 0.38	
<b>6</b> 0214 0.85 0908 0.15 SA 1637 0.92 ● 2125 0.72		<b>14</b> 0109 1.02 0733 0.41 SU 1305 0.84 1908 0.32		<b>22</b> 0200 0.81 0920 0.29 MO 1713 0.88 ○ 2147 0.80		<b>30</b> 0114 0.95 0726 0.38 TU 1330 1.01 1949 0.42	
<b>7</b> 0158 0.86 0931 0.16 SU 1743 0.85 2115 0.80		<b>15</b> 0122 1.01 0742 0.36 MO 1331 0.92 1938 0.34		<b>23</b> 0106 0.83 0930 0.34 TU		<b>31</b> 0118 0.88 0730 0.31 WE 1358 1.09 2018 0.48	
<b>8</b> 0131 0.89 0956 0.21 MO		<b>16</b> 0137 0.98 0755 0.31 TU 1359 0.98 2006 0.38		<b>24</b> 0009 0.90 0923 0.38 WE			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0120 0.84 0733 0.23 TH 1427 1.13 2045 0.57		<b>9</b> 0705 0.53 1215 0.69 FR 1726 0.53		<b>17</b> 0138 0.84 0750 0.27 SA 1501 1.15 2120 0.64		<b>25</b> 0628 0.52 1218 0.85 SU 1808 0.54	
<b>2</b> 0125 0.83 0744 0.16 FR 1459 1.13 2105 0.65		<b>10</b> 0000 0.93 0641 0.50 SA 1215 0.81 1804 0.48		<b>18</b> 0145 0.83 0808 0.28 SU 1529 1.11 2144 0.70		<b>26</b> 0005 0.93 0618 0.48 MO 1230 0.98 1848 0.51	
<b>3</b> 0127 0.84 0804 0.12 SA 1533 1.09 2117 0.72		<b>11</b> 0014 0.94 0633 0.44 SU 1233 0.92 1836 0.46		<b>19</b> 0147 0.82 0827 0.30 MO 1600 1.06 2209 0.76		<b>27</b> 0015 0.87 0619 0.42 TU 1253 1.11 ○ 1925 0.53	
<b>4</b> 0125 0.86 0830 0.13 SU 1612 1.02 ● 2117 0.78		<b>12</b> 0029 0.94 0642 0.39 MO 1256 1.01 ● 1906 0.45		<b>20</b> 0123 0.81 0844 0.34 TU 1643 0.98 ● 2243 0.83		<b>28</b> 0018 0.81 0624 0.35 WE 1318 1.21 1958 0.58	
<b>5</b> 0122 0.88 0858 0.19 MO 1700 0.92 2117 0.81		<b>13</b> 0045 0.93 0656 0.34 TU 1320 1.09 1935 0.46		<b>21</b> 0000 0.83 0852 0.40 WE 1839 0.91		<b>29</b> 0018 0.78 0628 0.26 TH 1346 1.26 2026 0.64	
<b>6</b> 0110 0.89 0922 0.29 TU		<b>14</b> 0100 0.91 0710 0.31 WE 1345 1.14 2003 0.49		<b>22</b> 0839 0.46 2311 0.95 TH		<b>30</b> 0023 0.79 0639 0.19 FR 1415 1.27 2049 0.71	
<b>7</b> 0033 0.89 0930 0.41 WE		<b>15</b> 0115 0.88 0722 0.28 TH 1410 1.17 2030 0.54		<b>23</b> 0740 0.51 1419 0.67 FR 1542 0.66 2332 0.98			
<b>8</b> 0010 0.90 0835 0.52 TH 2359 0.92 *		<b>16</b> 0128 0.86 0735 0.27 FR 1435 1.17 2056 0.59		<b>24</b> 0650 0.53 1239 0.73 SA 1720 0.59 2351 0.97			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0030 0.82 0702 0.15 SA 1446 1.24 2110 0.77		<b>9</b> 0521 0.51 1157 0.96 SU 1802 0.62 2318 0.87		<b>17</b> 0116 0.82 0740 0.34 MO 1518 1.20 2201 0.75		<b>25</b> 0502 0.49 1215 1.15 TU 1923 0.65 2259 0.74	
<b>2</b> 0036 0.85 0731 0.16 SU 1520 1.17 2128 0.80		<b>10</b> 0535 0.45 1217 1.06 MO 1836 0.59 2342 0.87		<b>18</b> 0123 0.81 0802 0.37 TU 1553 1.14 2252 0.79		<b>26</b> 0509 0.41 1241 1.26 WE 2011 0.66 ○ 2300 0.72	
<b>3</b> 0046 0.88 0803 0.21 MO 1557 1.08 2138 0.82		<b>11</b> 0552 0.41 1241 1.15 TU 1907 0.59		<b>19</b> 0055 0.80 0823 0.42 WE 1637 1.06		<b>27</b> 0519 0.32 1311 1.33 TH 2055 0.71 2308 0.73	
<b>4</b> 0100 0.88 0835 0.31 TU 1640 0.98 ● 2151 0.82		<b>12</b> 0002 0.86 0608 0.37 WE 1305 1.22 ● 1937 0.59		<b>20</b> 0834 0.49 1747 0.99 TH ○		<b>28</b> 0537 0.25 1341 1.35 FR 2124 0.76 2320 0.77	
<b>5</b> 0055 0.85 0901 0.43 WE 1748 0.89		<b>13</b> 0021 0.84 0623 0.34 TH 1330 1.26 2005 0.61		<b>21</b> 0813 0.57 1957 0.92 FR		<b>29</b> 0604 0.21 1412 1.33 SA 2111 0.81 2339 0.82	
<b>6</b> 0900 0.56 2113 0.85 TH		<b>14</b> 0036 0.83 0639 0.33 FR 1356 1.28 2032 0.65		<b>22</b> 0559 0.62 1322 0.77 SA 1524 0.76 2202 0.89		<b>30</b> 0638 0.21 1443 1.27 SU 2121 0.82	
<b>7</b> 0612 0.62 1250 0.73 FR 1609 0.71 2219 0.86		<b>15</b> 0049 0.83 0657 0.32 SA 1422 1.27 2059 0.68		<b>23</b> 0510 0.60 1201 0.87 SU 1731 0.71 2240 0.84		<b>31</b> 0009 0.85 0715 0.25 MO 1515 1.20 2143 0.81	
<b>8</b> 0525 0.57 1147 0.84 SA 1722 0.66 2252 0.87		<b>16</b> 0103 0.82 0717 0.32 SU 1448 1.24 2128 0.72		<b>24</b> 0501 0.56 1156 1.01 MO 1831 0.66 2257 0.79			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0048 0.86 0752 0.33 TU 1547 1.12 2214 0.79		<b>9</b> 0500 0.45 1229 1.22 WE 1933 0.68 2317 0.78		<b>17</b> 0201 0.78 0825 0.49 TH 1622 1.10 2358 0.74		<b>25</b> 0435 0.32 1314 1.34 FR ○	
<b>2</b> 0130 0.84 0829 0.44 WE 1623 1.04 ● 2302 0.76		<b>10</b> 0522 0.41 1255 1.28 TH 2000 0.68 ● 2342 0.78		<b>18</b> 0238 0.75 0850 0.57 FR 1655 1.02 ●		<b>26</b> 0514 0.28 1345 1.34 SA	
<b>3</b> 0217 0.79 0901 0.56 TH 1701 0.97		<b>11</b> 0545 0.39 1322 1.31 FR 2024 0.69		<b>19</b> 0115 0.71 0434 0.73 SA 0858 0.68 1720 0.93		<b>27</b> 0555 0.27 1413 1.31 SU 2200 0.79 2346 0.80	
<b>4</b> 0048 0.72 0406 0.73 FR 0921 0.68 1750 0.90		<b>12</b> 0001 0.79 0609 0.37 SA 1350 1.32 2048 0.71		<b>20</b> 0206 0.67 1456 0.85 SU		<b>28</b> 0637 0.29 1439 1.25 MO 2124 0.77	
<b>5</b> 0253 0.65 1232 0.82 SA 1503 0.82 1916 0.85		<b>13</b> 0022 0.80 0634 0.36 SU 1418 1.31 2114 0.72		<b>21</b> 0235 0.61 1134 0.97 MO		<b>29</b> 0047 0.83 0719 0.34 TU 1504 1.19 2139 0.73	
<b>6</b> 0336 0.58 1120 0.94 SU 1743 0.78 2053 0.81		<b>14</b> 0044 0.80 0701 0.37 MO 1447 1.28 2143 0.74		<b>22</b> 0302 0.54 1143 1.11 TU		<b>30</b> 0146 0.84 0800 0.42 WE 1530 1.13 2204 0.68	
<b>7</b> 0409 0.53 1138 1.05 MO 1829 0.73 2201 0.80		<b>15</b> 0108 0.81 0729 0.39 TU 1517 1.23 2217 0.75		<b>23</b> 0330 0.47 1210 1.22 WE			
<b>8</b> 0436 0.48 1202 1.14 TU 1903 0.70 2245 0.79		<b>16</b> 0133 0.80 0757 0.42 WE 1549 1.18 2300 0.75		<b>24</b> 0400 0.39 1241 1.31 TH			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0249 0.83 0838 0.51 TH 1555 1.07 2238 0.63		<b>9</b> 0447 0.45 1253 1.27 FR 2044 0.68 2316 0.71		<b>17</b> 0352 0.82 0911 0.62 SA 1556 0.99 2253 0.57		<b>25</b> 0532 0.33 1344 1.27 SU 2127 0.70 2342 0.73	
<b>2</b> 0400 0.82 0913 0.62 FR 1616 1.01 2317 0.59		<b>10</b> 0525 0.41 1321 1.30 SA 2058 0.68 2352 0.73		<b>18</b> 0513 0.83 0939 0.74 SU 1547 0.92 2311 0.53		<b>26</b> 0622 0.32 1403 1.24 MO 2058 0.69	
<b>3</b> 0541 0.81 0945 0.73 SA 1627 0.95		<b>11</b> 0600 0.39 1348 1.31 SU 2109 0.69		<b>19</b> 0734 0.88 0946 0.87 MO 1414 0.90 2329 0.49		<b>27</b> 0043 0.79 0704 0.34 TU 1421 1.19 2054 0.64	
<b>4</b> 0005 0.57 0850 0.85 SU 1006 0.85 1600 0.90		<b>12</b> 0023 0.76 0633 0.37 MO 1415 1.30 2120 0.69		<b>20</b> 1154 1.01 TU		<b>28</b> 0133 0.85 0743 0.38 WE 1439 1.15 2109 0.58	
<b>5</b> 0106 0.55 1111 0.96 MO		<b>13</b> 0055 0.78 0705 0.38 TU 1441 1.27 2136 0.68		<b>21</b> 0004 0.45 1208 1.13 WE		<b>29</b> 0221 0.88 0817 0.45 TH 1459 1.10 2130 0.52	
<b>6</b> 0214 0.53 1130 1.06 TU		<b>14</b> 0130 0.80 0736 0.40 WE 1505 1.22 2154 0.67		<b>22</b> 0132 0.43 1230 1.21 TH		<b>30</b> 0309 0.89 0848 0.53 FR 1516 1.05 2153 0.48	
<b>7</b> 0315 0.51 1158 1.15 WE		<b>15</b> 0210 0.81 0807 0.45 TH 1527 1.15 2214 0.64		<b>23</b> 0316 0.39 1256 1.27 FR		<b>31</b> 0400 0.89 0918 0.63 SA 1529 1.00 2215 0.46	
<b>8</b> 0405 0.48 1226 1.22 TH 2031 0.69 2223 0.70		<b>16</b> 0256 0.82 0839 0.52 FR 1545 1.08 2234 0.61		<b>24</b> 0430 0.36 1320 1.28 SA			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0500 0.88 0945 0.73 SU 1530 0.94 2240 0.45		<b>9</b> 0017 0.70 0612 0.38 MO 1340 1.25 2045 0.61		<b>17</b> 0611 0.91 0933 0.87 TU 1337 0.93 2215 0.34		<b>25</b> 0111 0.87 0722 0.36 WE 1350 1.09 2012 0.48	
<b>2</b> 0629 0.87 1004 0.82 MO 1458 0.91 2305 0.47		<b>10</b> 0046 0.75 0647 0.36 TU 1400 1.23 2047 0.59		<b>18</b> 1227 1.01 2244 0.36 WE		<b>26</b> 0145 0.93 0753 0.40 TH 1405 1.06 2028 0.42	
<b>3</b> 1229 0.93 2336 0.49 TU		<b>11</b> 0117 0.80 0720 0.36 WE 1420 1.19 2055 0.57		<b>19</b> 1232 1.09 2326 0.40 TH		<b>27</b> 0221 0.97 0822 0.46 FR 1421 1.02 2044 0.37	
<b>4</b> 1156 1.02 WE		<b>12</b> 0149 0.85 0752 0.40 TH 1436 1.13 2106 0.53		<b>20</b> 1247 1.15 FR		<b>28</b> 0258 0.98 0849 0.53 SA 1435 0.97 2100 0.35	
<b>5</b> 0040 0.52 1211 1.10 TH		<b>13</b> 0224 0.89 0822 0.46 FR 1446 1.06 2116 0.49		<b>21</b> 0349 0.44 1300 1.17 SA 2137 0.58 2319 0.58		<b>29</b> 0335 0.97 0915 0.61 SU 1442 0.93 2115 0.34	
<b>6</b> 0318 0.51 1232 1.17 FR 2147 0.61 2255 0.61		<b>14</b> 0302 0.92 0850 0.54 SA 1454 0.99 2125 0.44		<b>22</b> 0521 0.39 1311 1.17 SU 2033 0.60 ○		<b>30</b> 0414 0.95 0935 0.70 MO 1439 0.89 ● 2132 0.36	
<b>7</b> 0439 0.47 1255 1.22 SA 2045 0.61 2345 0.65		<b>15</b> 0347 0.93 0915 0.65 SU 1455 0.93 2135 0.38		<b>23</b> 0002 0.68 0609 0.35 MO 1324 1.15 2011 0.59		<b>31</b> 0501 0.91 0948 0.78 TU 1411 0.87 2149 0.38	
<b>8</b> 0530 0.42 1317 1.25 SU 2045 0.61 ●		<b>16</b> 0443 0.93 0933 0.76 MO 1431 0.91 ● 2151 0.35		<b>24</b> 0036 0.78 0648 0.34 TU 1337 1.12 2002 0.54			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0631 0.87 0929 0.86 WE 1308 0.89 2203 0.42		<b>9</b> 0119 0.90 0730 0.37 TH 1345 1.04 2001 0.44		<b>17</b> 1226 1.01 2135 0.43 FR		<b>25</b> 0207 1.08 0820 0.48 SA 1343 0.90 1952 0.27	
<b>2</b> 1212 0.96 2208 0.46 TH		<b>10</b> 0147 0.97 0800 0.42 FR 1352 0.97 2007 0.38		<b>18</b> 1231 1.03 2029 0.52 SA		<b>26</b> 0236 1.08 0846 0.54 SU 1353 0.87 2006 0.26	
<b>3</b> 1215 1.03 2129 0.51 FR		<b>11</b> 0217 1.02 0829 0.49 SA 1356 0.92 2011 0.32		<b>19</b> 0012 0.57 0458 0.47 SU 1232 1.03 1935 0.54		<b>27</b> 0305 1.06 0910 0.60 MO 1359 0.84 2022 0.27	
<b>4</b> 0141 0.55 0254 0.55 SA 1228 1.09 2026 0.53		<b>12</b> 0250 1.05 0853 0.58 SU 1359 0.88 2020 0.25		<b>20</b> 0000 0.69 0545 0.41 MO 1238 1.02 1913 0.51		<b>28</b> 0334 1.02 0929 0.67 TU 1356 0.82 2039 0.30	
<b>5</b> 0007 0.59 0456 0.48 SU 1243 1.14 2006 0.54		<b>13</b> 0327 1.04 0911 0.68 MO 1351 0.87 2038 0.22		<b>21</b> 0020 0.80 0622 0.38 TU 1249 1.01 ○ 1905 0.45		<b>29</b> 0406 0.97 0941 0.74 WE 1331 0.82 ● 2054 0.33	
<b>6</b> 0010 0.66 0544 0.42 MO 1300 1.16 1958 0.53		<b>14</b> 0410 1.00 0915 0.77 TU 1330 0.89 ● 2100 0.22		<b>22</b> 0045 0.90 0654 0.37 WE 1300 0.99 1914 0.39		<b>30</b> 0448 0.90 0937 0.81 TH 1243 0.84 2102 0.38	
<b>7</b> 0030 0.74 0622 0.37 TU 1316 1.14 ● 1952 0.51		<b>15</b> 0508 0.92 0908 0.85 WE 1305 0.92 2125 0.26		<b>23</b> 0111 0.98 0724 0.39 TH 1314 0.97 1927 0.34			
<b>8</b> 0053 0.82 0657 0.35 WE 1332 1.10 1955 0.48		<b>16</b> 1231 0.97 2144 0.34 TH		<b>24</b> 0139 1.04 0753 0.43 FR 1328 0.94 1940 0.29			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 1150 0.89 2050 0.43 FR		<b>9</b> 0136 1.12 0806 0.48 SA 1259 0.81 1903 0.23		<b>17</b> 0130 0.61 0418 0.59 SU 1144 0.87 1836 0.51		<b>25</b> 0216 1.17 0845 0.56 MO 1315 0.77 1923 0.23	
<b>2</b> 1149 0.95 2012 0.47 SA		<b>10</b> 0204 1.16 0833 0.56 SU 1301 0.79 1913 0.17		<b>18</b> 1140 0.87 1809 0.47 MO 2356 0.82 *		<b>26</b> 0242 1.14 0910 0.61 TU 1323 0.76 1942 0.25	
<b>3</b> 0145 0.60 0354 0.59 SU 1200 1.00 1923 0.49		<b>11</b> 0234 1.16 0857 0.65 MO 1300 0.80 1932 0.13		<b>19</b> 0554 0.47 1151 0.87 TU 1803 0.41		<b>27</b> 0308 1.09 0934 0.66 WE 1324 0.76 2000 0.28	
<b>4</b> 0033 0.64 0508 0.51 MO 1213 1.02 1905 0.48		<b>12</b> 0307 1.11 0910 0.72 TU 1252 0.82 1958 0.13		<b>20</b> 0015 0.93 0625 0.44 WE 1205 0.86 1813 0.35		<b>28</b> 0337 1.02 1000 0.71 TH 1300 0.75 2016 0.32	
<b>5</b> 0014 0.73 0550 0.44 TU 1227 1.02 1854 0.46		<b>13</b> 0344 1.03 0905 0.78 WE 1244 0.85 ● 2024 0.19		<b>21</b> 0037 1.03 0655 0.44 TH 1219 0.85 ○ 1827 0.29		<b>29</b> 0413 0.94 1045 0.76 FR 1150 0.76 ● 2020 0.38	
<b>6</b> 0026 0.84 0627 0.40 WE 1241 0.98 ● 1854 0.42		<b>14</b> 0428 0.92 0900 0.81 TH 1237 0.87 2046 0.28		<b>22</b> 0100 1.10 0724 0.45 FR 1236 0.83 1840 0.26		<b>30</b> 0522 0.86 2001 0.44 SA	
<b>7</b> 0046 0.95 0701 0.39 TH 1252 0.92 1858 0.37		<b>15</b> 0613 0.82 0742 0.81 FR 1208 0.87 2051 0.39		<b>23</b> 0126 1.15 0752 0.47 SA 1252 0.81 1852 0.23		<b>31</b> 1034 0.86 1852 0.48 SU	
<b>8</b> 0110 1.05 0735 0.42 FR 1257 0.85 1901 0.31		<b>16</b> 1153 0.88 2000 0.50 SA		<b>24</b> 0151 1.17 0820 0.51 SU 1305 0.79 1906 0.22			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0128 0.66 0402 0.65 MO 1103 0.88 1812 0.48		<b>9</b> 0226 1.21 0908 0.70 TU 1203 0.75 1901 0.09		<b>17</b> 0608 0.56 1049 0.73 WE 1706 0.35		<b>25</b> 0300 1.12 0952 0.63 TH 1316 0.69 1942 0.28	
<b>2</b> 0018 0.73 0514 0.57 TU 1124 0.87 1752 0.45		<b>10</b> 0257 1.14 0926 0.74 WE 1207 0.78 1932 0.14		<b>18</b> 0004 1.02 0638 0.53 TH 1115 0.73 1725 0.30		<b>26</b> 0330 1.06 1033 0.66 FR 1313 0.68 2002 0.34	
<b>3</b> 0002 0.84 0559 0.50 WE 1142 0.84 1749 0.41		<b>11</b> 0330 1.04 0940 0.75 TH 1222 0.79 ● 2002 0.23		<b>19</b> 0027 1.11 0707 0.51 FR 1139 0.72 ○ 1742 0.26		<b>27</b> 0404 0.99 2011 0.41 SA ●	
<b>4</b> 0014 0.97 0639 0.47 TH 1154 0.78 1752 0.35		<b>12</b> 0408 0.93 0945 0.75 FR 1230 0.77 2027 0.35		<b>20</b> 0051 1.18 0735 0.51 SA 1200 0.71 1759 0.23		<b>28</b> 0446 0.90 1945 0.49 SU	
<b>5</b> 0035 1.09 0716 0.47 FR 1159 0.72 ● 1756 0.28		<b>13</b> 0454 0.83 2017 0.48 SA		<b>21</b> 0115 1.22 0801 0.52 SU 1219 0.70 1815 0.22		<b>29</b> 0601 0.82 1721 0.53 MO	
<b>6</b> 0100 1.19 0752 0.51 SA 1159 0.68 1800 0.20		<b>14</b> 0653 0.75 1743 0.54 SU		<b>22</b> 0141 1.22 0829 0.55 MO 1235 0.70 1835 0.22		<b>30</b> 0812 0.74 1635 0.49 TU 2359 0.80 *	
<b>7</b> 0128 1.25 0823 0.57 SU 1201 0.68 1812 0.13		<b>15</b> 0938 0.73 1651 0.49 MO 2344 0.80 *		<b>23</b> 0207 1.21 0854 0.58 TU 1249 0.70 1857 0.23			
<b>8</b> 0156 1.25 0847 0.64 MO 1204 0.71 1833 0.09		<b>16</b> 0534 0.60 1019 0.73 TU 1650 0.41 2345 0.92		<b>24</b> 0233 1.17 0921 0.61 WE 1304 0.70 1919 0.25			

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# PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

## DECEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0547 0.63 0957 0.69 WE 1631 0.44 2349 0.93		<b>9</b> 0257 1.12 0942 0.69 TH 1230 0.72 1928 0.20		<b>17</b> 0734 0.58 1007 0.60 FR 1636 0.30		<b>25</b> 0327 1.08 1027 0.56 SA 1419 0.65 2013 0.35	
<b>2</b> 0645 0.57 1027 0.64 TH 1636 0.38		<b>10</b> 0325 1.04 1002 0.65 FR 1321 0.71 2003 0.30		<b>18</b> 0022 1.13 0757 0.55 SA 1059 0.60 1704 0.28		<b>26</b> 0351 1.01 1100 0.55 SU 1505 0.63 2037 0.44	
<b>3</b> 0004 1.07 0736 0.53 FR 1034 0.58 1645 0.30		<b>11</b> 0352 0.95 1035 0.60 SA 1420 0.67 ● 2034 0.43		<b>19</b> 0048 1.18 0819 0.54 SU 1134 0.61 ○ 1730 0.25		<b>27</b> 0414 0.93 1136 0.53 MO 1623 0.61 ● 2051 0.54	
<b>4</b> 0029 1.18 0826 0.53 SA 1038 0.56 ● 1657 0.22		<b>12</b> 0417 0.87 1128 0.55 SU 1620 0.61 2050 0.56		<b>20</b> 0115 1.22 0838 0.54 MO 1200 0.62 1758 0.24		<b>28</b> 0425 0.84 1219 0.50 TU	
<b>5</b> 0058 1.26 0915 0.55 SU 1045 0.56 1715 0.15		<b>13</b> 0430 0.81 1256 0.50 MO		<b>21</b> 0141 1.22 0855 0.55 TU 1224 0.64 1825 0.23		<b>29</b> 0322 0.77 1305 0.46 WE 2357 0.84	
<b>6</b> 0129 1.28 1742 0.10 MO		<b>14</b> 0314 0.75 1431 0.44 TU 2339 0.84		<b>22</b> 0208 1.21 0912 0.56 WE 1247 0.65 1852 0.23		<b>30</b> 1357 0.41 2352 0.98 TH	
<b>7</b> 0159 1.26 1815 0.09 TU		<b>15</b> 1526 0.39 2337 0.95 WE		<b>23</b> 0234 1.18 0933 0.57 TH 1314 0.66 1919 0.25		<b>31</b> 1445 0.35 FR	
<b>8</b> 0229 1.20 0942 0.69 WE 1140 0.70 1851 0.12		<b>16</b> 0723 0.62 0836 0.62 TH 1605 0.34 2358 1.05		<b>24</b> 0300 1.13 0959 0.57 FR 1345 0.66 1946 0.29			

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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 HM	Rise of tide			
		MHHW metres	MLHW metres	MHLW metres	MLLW metres
<i>Fairway Buoy</i>	<i>(1 00)</i>	<i>2.5</i>	<i>1.8</i>	<i>1.2</i>	<i>0.5</i>
<i>Flinders Pier</i>	<i>(0 55)</i>	<i>2.5</i>	<i>1.8</i>	<i>1.2</i>	<i>0.5</i>
<i>No. 11 Buoy</i>	<i>(0 30)</i>	<i>2.7</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
<i>Newhaven Pier</i>	<i>(0 25)</i>	<i>2.5</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
<i>Cowes Pier</i>	<i>(0 10)</i>	<i>2.7</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
<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)

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
2.00	Highest recorded tide 06/06/1988 (1981-2020)	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 (1981-2020)	-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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0230 2.99 0809 1.17 FR 1404 2.48 1959 0.46		<b>9</b> 0114 0.93 0735 2.72 SA 1344 0.48 2052 2.67		<b>17</b> 0400 3.06 0942 0.84 SU 1553 2.63 2140 0.46		<b>25</b> 0225 1.30 0823 2.41 MO 1442 0.70 2200 2.48	
<b>2</b> 0314 3.04 0852 1.08 SA 1452 2.55 2042 0.43		<b>10</b> 0210 1.08 0823 2.63 SU 1436 0.44 2200 2.71		<b>18</b> 0441 3.02 1025 0.76 MO 1641 2.63 2224 0.56		<b>26</b> 0320 1.40 0912 2.32 TU 1533 0.73 2304 2.53	
<b>3</b> 0355 3.06 0933 0.99 SU 1538 2.59 2125 0.43		<b>11</b> 0314 1.21 0921 2.54 MO 1537 0.42 2309 2.78		<b>19</b> 0515 2.95 1104 0.70 TU 1725 2.61 2304 0.68		<b>27</b> 0425 1.45 1014 2.27 WE 1634 0.72	
<b>4</b> 0432 3.05 1014 0.90 MO 1623 2.62 2208 0.46		<b>12</b> 0427 1.28 1030 2.48 TU 1645 0.41		<b>20</b> 0546 2.86 1140 0.67 WE 1806 2.57 2343 0.80		<b>28</b> 0008 2.61 0535 1.43 TH 1125 2.27 1738 0.68	
<b>5</b> 0509 3.01 1054 0.80 TU 1709 2.63 2252 0.53		<b>13</b> 0017 2.87 0545 1.27 WE 1144 2.46 ● 1756 0.39		<b>21</b> 0615 2.78 1214 0.65 TH 1846 2.54 ○		<b>29</b> 0108 2.73 0640 1.34 FR 1236 2.33 ○ 1838 0.61	
<b>6</b> 0544 2.95 1133 0.71 WE 1758 2.64 ● 2337 0.63		<b>14</b> 0122 2.97 0657 1.19 TH 1256 2.50 1901 0.36		<b>22</b> 0019 0.92 0642 2.69 FR 1246 0.64 1929 2.51		<b>30</b> 0201 2.85 0737 1.21 SA 1339 2.44 1933 0.54	
<b>7</b> 0618 2.89 1215 0.62 TH 1851 2.64		<b>15</b> 0221 3.04 0800 1.07 FR 1401 2.55 2000 0.36		<b>23</b> 0058 1.04 0711 2.60 SA 1321 0.64 2013 2.49		<b>31</b> 0249 2.94 0827 1.06 SU 1436 2.55 2024 0.49	
<b>8</b> 0024 0.77 0655 2.81 FR 1257 0.54 1948 2.65		<b>16</b> 0314 3.07 0854 0.94 SA 1500 2.60 2052 0.39		<b>24</b> 0138 1.17 0744 2.51 SU 1359 0.67 2102 2.48			

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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

## FEBRUARY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b>	0332 2.99	<b>9</b>	0251 1.21	<b>17</b>	0445 2.86	<b>25</b>	0325 1.41
	0913 0.90		0855 2.51		1036 0.61		0926 2.28
MO	1529 2.66	TU	1511 0.46	WE	1707 2.71	TH	1536 0.76
	2112 0.47		2242 2.68		2245 0.74		2315 2.51
<b>2</b>	0413 3.01	<b>10</b>	0359 1.29	<b>18</b>	0514 2.81	<b>26</b>	0437 1.42
	0956 0.73		1002 2.42		1109 0.56		1042 2.25
TU	1618 2.74	WE	1619 0.54	TH	1743 2.71	FR	1649 0.77
	2159 0.50		2351 2.70		2320 0.82		
<b>3</b>	0449 2.99	<b>11</b>	0517 1.29	<b>19</b>	0539 2.75	<b>27</b>	0024 2.60
	1037 0.58		1122 2.37		1140 0.52		0554 1.33
WE	1708 2.80	TH	1734 0.57	FR	1817 2.70	SA	1204 2.32
	2245 0.56				2353 0.90	○	1804 0.73
<b>4</b>	0525 2.95	<b>12</b>	0059 2.76	<b>20</b>	0605 2.70	<b>28</b>	0125 2.71
	1119 0.45		0634 1.20		1211 0.51		0700 1.16
TH	1758 2.83	FR	1242 2.41	SA	1853 2.68	SU	1319 2.47
	2331 0.66	●	1845 0.57	●			1910 0.66
<b>5</b>	0600 2.89	<b>13</b>	0200 2.84	<b>21</b>	0027 0.99		
	1200 0.36		0741 1.05		0633 2.63		
FR	1848 2.83	SA	1353 2.49	SU	1242 0.53		
○			1947 0.56		1931 2.64		
<b>6</b>	0017 0.79	<b>14</b>	0252 2.90	<b>22</b>	0102 1.10		
	0636 2.82		0835 0.90		0705 2.55		
SA	1242 0.32	SU	1454 2.58	MO	1315 0.58		
	1941 2.80		2040 0.57		2014 2.58		
<b>7</b>	0104 0.94	<b>15</b>	0337 2.92	<b>23</b>	0142 1.21		
	0715 2.72		0921 0.78		0742 2.45		
SU	1326 0.33	MO	1545 2.65	TU	1352 0.64		
	2036 2.75		2127 0.61		2104 2.52		
<b>8</b>	0154 1.08	<b>16</b>	0414 2.90	<b>24</b>	0228 1.33		
	0800 2.62		1000 0.68		0827 2.36		
MO	1414 0.38	TU	1628 2.69	WE	1437 0.71		
	2136 2.70		2208 0.67		2205 2.49		

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0217 2.82 0757 0.95 MO 1423 2.65 2007 0.61		<b>9</b> 0139 1.07 0743 2.58 TU 1353 0.45 2111 2.68		<b>17</b> 0340 2.77 0928 0.61 WE 1609 2.82 2149 0.81		<b>25</b> 0147 1.26 0753 2.38 TH 1354 0.72 2115 2.53	
<b>2</b> 0303 2.90 0846 0.72 TU 1520 2.82 2100 0.58		<b>10</b> 0231 1.18 0838 2.45 WE 1447 0.61 2213 2.59		<b>18</b> 0409 2.76 1001 0.54 TH 1644 2.86 2223 0.84		<b>26</b> 0240 1.32 0852 2.31 FR 1451 0.82 2220 2.50	
<b>3</b> 0345 2.93 0931 0.52 WE 1613 2.95 2149 0.59		<b>11</b> 0336 1.25 0948 2.35 TH 1557 0.74 2321 2.57		<b>19</b> 0436 2.74 1032 0.49 FR 1715 2.88 2255 0.88		<b>27</b> 0348 1.32 1013 2.30 SA 1607 0.89 2332 2.54	
<b>4</b> 0425 2.94 1015 0.35 TH 1702 3.03 2236 0.63		<b>12</b> 0454 1.25 1113 2.31 FR 1716 0.81		<b>20</b> 0503 2.72 1103 0.47 SA 1748 2.88 2327 0.93		<b>28</b> 0508 1.22 1143 2.40 SU 1731 0.90	
<b>5</b> 0503 2.92 1059 0.23 FR 1751 3.05 2322 0.71		<b>13</b> 0030 2.60 0612 1.15 SA 1236 2.38 ● 1831 0.82		<b>21</b> 0530 2.68 1134 0.47 SU 1821 2.84 2359 0.99		<b>29</b> 0039 2.63 0621 1.02 MO 1302 2.60 ○ 1846 0.85	
<b>6</b> 0541 2.87 1142 0.19 SA 1839 3.01 ●		<b>14</b> 0131 2.68 0717 0.99 SU 1347 2.51 1934 0.79		<b>22</b> 0600 2.63 1204 0.51 MO 1857 2.78 ○		<b>30</b> 0137 2.73 0722 0.77 TU 1409 2.83 1949 0.79	
<b>7</b> 0007 0.82 0618 2.79 SU 1223 0.23 1928 2.92		<b>15</b> 0223 2.74 0809 0.84 MO 1444 2.65 2027 0.77		<b>23</b> 0031 1.08 0633 2.55 TU 1236 0.57 1935 2.69		<b>31</b> 0228 2.80 0815 0.53 WE 1508 3.03 2045 0.76	
<b>8</b> 0052 0.95 0658 2.69 MO 1306 0.32 2017 2.80		<b>16</b> 0305 2.77 0851 0.71 TU 1530 2.75 2111 0.78		<b>24</b> 0106 1.17 0709 2.47 WE 1311 0.64 2020 2.60			

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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

## APRIL - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0314 2.85 0903 0.33 TH 1600 3.17 2135 0.75		<b>9</b> 0318 1.19 0945 2.32 FR 1536 0.98 2245 2.51		<b>17</b> 0359 2.69 0955 0.49 SA 1648 3.03 2230 0.98		<b>25</b> 0313 1.16 0958 2.41 SU 1535 1.04 2240 2.56	
<b>2</b> 0357 2.87 0950 0.20 FR 1650 3.23 2223 0.76		<b>10</b> 0431 1.17 1110 2.32 SA 1657 1.06 2353 2.51		<b>18</b> 0429 2.68 1028 0.49 SU 1720 3.02 2300 1.01		<b>26</b> 0428 1.03 1126 2.56 MO 1701 1.09 2348 2.60	
<b>3</b> 0438 2.87 1035 0.14 SA 1738 3.22 2310 0.81		<b>11</b> 0544 1.07 1229 2.43 SU 1813 1.07		<b>19</b> 0500 2.66 1059 0.51 MO 1753 2.96 2332 1.05		<b>27</b> 0542 0.82 1245 2.79 TU 1822 1.07 ○	
<b>4</b> 0519 2.83 1119 0.17 SU 1825 3.13 ● 2354 0.88		<b>12</b> 0053 2.56 0644 0.93 MO 1332 2.60 ● 1915 1.03		<b>20</b> 0532 2.61 1130 0.56 TU 1828 2.89 ●		<b>28</b> 0051 2.67 0645 0.59 WE 1352 3.03 1930 1.02	
<b>5</b> 0601 2.76 1203 0.27 MO 1910 2.99		<b>13</b> 0143 2.60 0732 0.79 TU 1424 2.76 2006 0.99		<b>21</b> 0004 1.11 0607 2.54 WE 1202 0.62 1904 2.79		<b>29</b> 0148 2.74 0743 0.39 TH 1451 3.22 2027 0.97	
<b>6</b> 0039 0.97 0645 2.66 TU 1247 0.43 1956 2.84		<b>14</b> 0224 2.64 0813 0.68 WE 1506 2.88 2048 0.97		<b>22</b> 0038 1.17 0645 2.47 TH 1238 0.70 1945 2.70		<b>30</b> 0239 2.79 0834 0.24 FR 1545 3.32 2119 0.93	
<b>7</b> 0124 1.06 0733 2.53 WE 1333 0.62 2045 2.69		<b>15</b> 0258 2.66 0849 0.59 TH 1543 2.97 2125 0.97		<b>23</b> 0118 1.20 0731 2.41 FR 1322 0.79 2033 2.62			
<b>8</b> 0215 1.15 0831 2.41 TH 1428 0.81 2141 2.57		<b>16</b> 0329 2.67 0923 0.52 FR 1615 3.02 2158 0.97		<b>24</b> 0208 1.20 0835 2.37 SA 1420 0.92 2132 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

MAY - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0327 2.82 0924 0.17 SA 1634 3.34 2207 0.91		<b>9</b> 0401 1.07 1057 2.40 SU 1629 1.27 2303 2.47		<b>17</b> 0359 2.66 0954 0.54 MO 1656 3.09 2236 1.11		<b>25</b> 0353 0.81 1110 2.73 TU 1634 1.26 2300 2.62	
<b>2</b> 0414 2.83 1012 0.18 SU 1722 3.29 2254 0.92		<b>10</b> 0504 1.00 1207 2.52 MO 1742 1.29		<b>18</b> 0433 2.64 1028 0.58 TU 1730 3.03 2309 1.12		<b>26</b> 0504 0.64 1224 2.94 WE 1755 1.26 ○	
<b>3</b> 0500 2.80 1058 0.26 MO 1807 3.18 2340 0.94		<b>11</b> 0001 2.47 0600 0.89 TU 1305 2.69 1845 1.26		<b>19</b> 0510 2.59 1101 0.63 WE 1804 2.96 2342 1.14		<b>27</b> 0006 2.65 0611 0.47 TH 1331 3.14 1905 1.21	
<b>4</b> 0546 2.73 1144 0.41 TU 1851 3.03 ●		<b>12</b> 0052 2.49 0648 0.78 WE 1354 2.85 ● 1936 1.21		<b>20</b> 0547 2.55 1137 0.69 TH 1839 2.88 ●		<b>28</b> 0109 2.69 0712 0.33 FR 1431 3.29 2006 1.14	
<b>5</b> 0025 0.99 0635 2.63 WE 1229 0.60 1934 2.87		<b>13</b> 0135 2.53 0730 0.68 TH 1434 2.98 2018 1.16		<b>21</b> 0017 1.13 0630 2.50 FR 1216 0.78 1916 2.80		<b>29</b> 0206 2.75 0807 0.25 SA 1526 3.35 2100 1.08	
<b>6</b> 0111 1.04 0729 2.51 TH 1315 0.81 2018 2.72		<b>14</b> 0213 2.58 0808 0.60 FR 1512 3.07 2055 1.13		<b>22</b> 0058 1.10 0723 2.47 SA 1303 0.90 2000 2.73		<b>30</b> 0300 2.78 0900 0.24 SU 1616 3.34 2150 1.02	
<b>7</b> 0201 1.09 0830 2.40 FR 1409 1.01 2107 2.60		<b>15</b> 0248 2.62 0845 0.55 SA 1547 3.11 2130 1.11		<b>23</b> 0146 1.04 0830 2.48 SU 1401 1.04 2051 2.67		<b>31</b> 0353 2.79 0950 0.29 MO 1704 3.27 2238 0.98	
<b>8</b> 0259 1.10 0941 2.36 SA 1514 1.18 2202 2.51		<b>16</b> 0323 2.65 0919 0.53 SU 1622 3.12 2203 1.10		<b>24</b> 0245 0.94 0948 2.57 MO 1513 1.18 2152 2.63			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0444 2.77 TU 1748 3.17 2325 0.96		<b>9</b> 0510 0.87 1227 2.72 WE 1800 1.43 2352 2.42		<b>17</b> 0455 2.61 1041 0.68 TH 1743 2.99 2326 1.07		<b>25</b> 0540 0.43 1309 3.12 FR 1840 1.34 ○	
<b>2</b> 0535 2.71 1125 0.57 WE 1830 3.04 ●		<b>10</b> 0600 0.79 1315 2.86 TH 1855 1.39 ●		<b>18</b> 0538 2.59 1121 0.75 FR 1816 2.93 ●		<b>26</b> 0036 2.65 0645 0.36 SA 1411 3.22 1945 1.24	
<b>3</b> 0011 0.96 0628 2.62 TH 1211 0.76 1909 2.90		<b>11</b> 0042 2.46 0645 0.71 FR 1400 2.98 1942 1.33		<b>19</b> 0003 1.01 0626 2.58 SA 1204 0.85 1851 2.87		<b>27</b> 0141 2.70 0745 0.33 SU 1507 3.26 2042 1.14	
<b>4</b> 0056 0.97 0722 2.53 FR 1258 0.96 1948 2.77		<b>12</b> 0129 2.52 0729 0.64 SA 1441 3.07 2023 1.27		<b>20</b> 0045 0.92 0721 2.58 SU 1253 0.98 1930 2.80		<b>28</b> 0242 2.74 0841 0.35 MO 1559 3.25 2133 1.04	
<b>5</b> 0142 0.99 0820 2.46 SA 1346 1.14 2028 2.65		<b>13</b> 0212 2.58 0809 0.60 SU 1521 3.12 2101 1.22		<b>21</b> 0130 0.82 0826 2.62 MO 1348 1.13 2016 2.73		<b>29</b> 0339 2.75 0932 0.43 TU 1645 3.21 2222 0.96	
<b>6</b> 0230 0.99 0923 2.44 SU 1444 1.29 2113 2.54		<b>14</b> 0253 2.62 0847 0.58 MO 1559 3.12 2138 1.18		<b>22</b> 0223 0.72 0937 2.71 TU 1453 1.27 2113 2.67		<b>30</b> 0433 2.74 1021 0.55 WE 1727 3.12 2308 0.90	
<b>7</b> 0321 0.97 1029 2.48 MO 1548 1.40 2203 2.46		<b>15</b> 0334 2.63 0926 0.59 TU 1635 3.10 2214 1.15		<b>23</b> 0324 0.62 1050 2.83 WE 1607 1.37 2217 2.63			
<b>8</b> 0416 0.93 1130 2.59 TU 1657 1.45 2259 2.42		<b>16</b> 0414 2.62 1003 0.63 WE 1710 3.05 2249 1.12		<b>24</b> 0431 0.52 1201 2.98 TH 1726 1.39 2328 2.62			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0526 2.70 1108 0.69 TH 1805 3.02 2351 0.87		<b>9</b> 0509 0.80 1233 2.78 FR 1805 1.50 2348 2.40		<b>17</b> 0534 2.69 1112 0.78 SA 1754 2.95 2350 0.77		<b>25</b> 0015 2.59 0626 0.46 SU 1350 3.06 1926 1.24	
<b>2</b> 0617 2.64 1152 0.86 FR 1840 2.91		<b>10</b> 0601 0.75 1324 2.89 SA 1900 1.43		<b>18</b> 0625 2.71 1158 0.89 SU 1829 2.89		<b>26</b> 0126 2.64 0730 0.45 MO 1447 3.12 2025 1.10	
<b>3</b> 0032 0.85 0707 2.58 SA 1235 1.02 1913 2.79		<b>11</b> 0046 2.46 0651 0.69 SU 1411 2.98 1949 1.35		<b>19</b> 0030 0.68 0719 2.72 MO 1245 1.03 1905 2.82		<b>27</b> 0231 2.69 0827 0.48 TU 1538 3.13 2116 0.96	
<b>4</b> 0112 0.85 0758 2.53 SU 1319 1.17 1945 2.68		<b>12</b> 0140 2.53 0738 0.64 MO 1455 3.04 2032 1.26		<b>20</b> 0114 0.60 0817 2.74 TU 1336 1.17 1948 2.74		<b>28</b> 0331 2.73 0918 0.54 WE 1622 3.11 2203 0.85	
<b>5</b> 0152 0.85 0849 2.52 MO 1407 1.31 2020 2.57		<b>13</b> 0229 2.59 0821 0.62 TU 1536 3.07 2114 1.17		<b>21</b> 0202 0.54 0921 2.77 WE 1434 1.31 2042 2.67		<b>29</b> 0425 2.75 1006 0.64 TH 1700 3.05 2245 0.78	
<b>6</b> 0235 0.85 0945 2.54 TU 1500 1.43 2101 2.48		<b>14</b> 0315 2.63 0904 0.62 WE 1614 3.07 2153 1.08		<b>22</b> 0259 0.51 1029 2.82 TH 1542 1.40 2145 2.60		<b>30</b> 0514 2.73 1050 0.76 FR 1734 2.96 2325 0.73	
<b>7</b> 0322 0.85 1042 2.59 WE 1601 1.50 2151 2.41		<b>15</b> 0401 2.65 0945 0.64 TH 1648 3.04 2232 0.98		<b>23</b> 0404 0.50 1138 2.89 FR 1659 1.43 2259 2.57		<b>31</b> 0559 2.70 1131 0.89 SA 1804 2.87	
<b>8</b> 0415 0.84 1139 2.67 TH 1705 1.53 2248 2.39		<b>16</b> 0447 2.68 1029 0.69 FR 1722 3.01 2311 0.88		<b>24</b> 0515 0.48 1246 2.98 SA 1816 1.36			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0000 0.70 0641 2.66 SU 1210 1.01 1832 2.78		<b>9</b> 0009 2.40 0616 0.75 MO 1338 2.84 1914 1.34		<b>17</b> 0014 0.44 0711 2.85 TU 1235 1.02 1844 2.79		<b>25</b> 0228 2.69 0816 0.61 WE 1513 2.99 2056 0.81	
<b>2</b> 0035 0.70 0722 2.63 MO 1247 1.13 1900 2.69		<b>10</b> 0113 2.49 0711 0.69 TU 1426 2.93 2003 1.19		<b>18</b> 0056 0.43 0804 2.81 WE 1323 1.16 1927 2.70		<b>26</b> 0323 2.77 0906 0.65 TH 1554 2.98 2138 0.70	
<b>3</b> 0110 0.71 0805 2.60 TU 1327 1.25 1931 2.60		<b>11</b> 0211 2.59 0800 0.65 WE 1509 2.99 2048 1.04		<b>19</b> 0143 0.46 0902 2.75 TH 1415 1.29 2018 2.60		<b>27</b> 0412 2.81 0950 0.71 FR 1628 2.93 2216 0.63	
<b>4</b> 0147 0.74 0852 2.57 WE 1412 1.36 2008 2.50		<b>12</b> 0303 2.68 0847 0.63 TH 1547 3.01 2130 0.88		<b>20</b> 0236 0.52 1006 2.72 FR 1519 1.37 2124 2.52		<b>28</b> 0453 2.81 1030 0.80 SA 1658 2.87 2251 0.58	
<b>5</b> 0229 0.78 0945 2.56 TH 1502 1.47 2054 2.42		<b>13</b> 0353 2.76 0933 0.65 FR 1623 3.00 2211 0.73		<b>21</b> 0343 0.59 1115 2.73 SA 1637 1.39 2244 2.48		<b>29</b> 0531 2.80 1106 0.88 SU 1725 2.80 2324 0.57	
<b>6</b> 0318 0.81 1044 2.58 FR 1603 1.53 2151 2.36		<b>14</b> 0441 2.83 1019 0.70 SA 1658 2.98 2252 0.60		<b>22</b> 0459 0.62 1224 2.79 SU 1758 1.30 ○		<b>30</b> 0607 2.77 1141 0.97 MO 1751 2.74 ● 2356 0.57	
<b>7</b> 0415 0.83 1145 2.64 SA 1711 1.53 2259 2.35		<b>15</b> 0530 2.86 1104 0.78 SU 1731 2.93 2332 0.50		<b>23</b> 0006 2.51 0614 0.62 MO 1329 2.88 1908 1.14		<b>31</b> 0643 2.73 1215 1.06 TU 1819 2.67	
<b>8</b> 0517 0.80 1245 2.73 SU 1816 1.46 ●		<b>16</b> 0619 2.87 1150 0.89 MO 1806 2.87 ●		<b>24</b> 0122 2.59 0719 0.60 TU 1425 2.95 2006 0.96			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0028 0.60 0719 2.68 WE 1249 1.16 1849 2.59		<b>9</b> 0156 2.67 0742 0.72 TH 1435 2.88 2018 0.81		<b>17</b> 0124 0.49 0841 2.70 FR 1400 1.22 2006 2.51		<b>25</b> 0350 2.92 0930 0.79 SA 1550 2.79 2141 0.51	
<b>2</b> 0102 0.66 0800 2.62 TH 1327 1.27 1926 2.50		<b>10</b> 0251 2.83 0832 0.69 FR 1516 2.92 2102 0.61		<b>18</b> 0218 0.63 0941 2.62 SA 1502 1.28 2117 2.42		<b>26</b> 0427 2.94 1006 0.84 SU 1618 2.76 2214 0.47	
<b>3</b> 0139 0.73 0848 2.55 FR 1411 1.38 2009 2.41		<b>11</b> 0343 2.95 0921 0.69 SA 1555 2.93 2145 0.45		<b>19</b> 0326 0.75 1048 2.59 SU 1620 1.27 2242 2.39		<b>27</b> 0500 2.93 1040 0.88 MO 1645 2.73 2245 0.47	
<b>4</b> 0224 0.80 0945 2.50 SA 1505 1.46 2106 2.33		<b>12</b> 0432 3.03 1008 0.72 SU 1631 2.91 2229 0.33		<b>20</b> 0445 0.82 1158 2.62 MO 1740 1.16		<b>28</b> 0532 2.90 1112 0.94 TU 1714 2.70 2316 0.50	
<b>5</b> 0320 0.86 1051 2.51 SU 1615 1.48 2219 2.30		<b>13</b> 0520 3.05 1054 0.79 MO 1708 2.88 2312 0.28		<b>21</b> 0006 2.47 0603 0.82 TU 1301 2.70 ○ 1847 0.98		<b>29</b> 0605 2.85 1143 1.00 WE 1744 2.64 ● 2348 0.55	
<b>6</b> 0430 0.88 1159 2.58 MO 1730 1.40 2339 2.36		<b>14</b> 0609 3.02 1139 0.88 TU 1745 2.81 ● 2354 0.30		<b>22</b> 0119 2.61 0709 0.78 WE 1356 2.78 1942 0.81		<b>30</b> 0640 2.77 1215 1.08 TH 1815 2.56	
<b>7</b> 0542 0.84 1258 2.69 TU 1836 1.23 ●		<b>15</b> 0658 2.94 1223 1.00 WE 1826 2.73		<b>23</b> 0219 2.75 0803 0.76 TH 1441 2.82 2027 0.66			
<b>8</b> 0052 2.50 0645 0.78 WE 1349 2.80 1930 1.03		<b>16</b> 0037 0.37 0747 2.82 TH 1309 1.12 1911 2.62		<b>24</b> 0309 2.86 0850 0.76 FR 1518 2.82 2105 0.57			

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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

## OCTOBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0020 0.63 0717 2.67 FR 1249 1.18 1851 2.47		<b>9</b> 0237 3.02 0817 0.80 SA 1442 2.81 2033 0.36		<b>17</b> 0202 0.78 0914 2.56 SU 1448 1.15 2121 2.35		<b>25</b> 0358 3.05 0941 0.90 MO 1540 2.67 2136 0.42	
<b>2</b> 0055 0.71 0800 2.57 SA 1329 1.27 1935 2.38		<b>10</b> 0330 3.16 0907 0.78 SU 1524 2.84 2119 0.23		<b>18</b> 0311 0.94 1016 2.50 MO 1602 1.11 2245 2.37		<b>26</b> 0430 3.04 1014 0.91 TU 1611 2.67 2209 0.43	
<b>3</b> 0137 0.81 0852 2.49 SU 1417 1.33 2033 2.30		<b>11</b> 0419 3.21 0955 0.79 MO 1605 2.84 2204 0.16		<b>19</b> 0431 1.03 1123 2.50 TU 1715 1.00		<b>27</b> 0501 3.00 1045 0.94 WE 1642 2.65 2241 0.48	
<b>4</b> 0231 0.91 0955 2.45 MO 1523 1.34 2152 2.29		<b>12</b> 0507 3.20 1041 0.82 TU 1646 2.81 2249 0.18		<b>20</b> 0003 2.50 0547 1.02 WE 1226 2.54 1817 0.85		<b>28</b> 0534 2.93 1115 0.99 TH 1715 2.59 2313 0.54	
<b>5</b> 0344 0.98 1103 2.48 TU 1642 1.24 2318 2.39		<b>13</b> 0554 3.12 1126 0.88 WE 1729 2.76 ☉ 2334 0.27		<b>21</b> 0109 2.67 0652 0.98 TH 1318 2.60 ☉ 1908 0.69		<b>29</b> 0608 2.84 1147 1.05 FR 1748 2.52 ☉ 2345 0.63	
<b>6</b> 0507 0.98 1209 2.56 WE 1754 1.04 ●		<b>14</b> 0641 2.98 1211 0.96 TH 1814 2.66		<b>22</b> 0201 2.84 0745 0.93 FR 1402 2.63 1951 0.57		<b>30</b> 0644 2.74 1220 1.10 SA 1827 2.44	
<b>7</b> 0035 2.59 0620 0.92 TH 1306 2.66 1853 0.80		<b>15</b> 0019 0.41 0729 2.83 FR 1257 1.04 1904 2.55		<b>23</b> 0246 2.95 0830 0.90 SA 1438 2.65 2029 0.49		<b>31</b> 0019 0.72 0723 2.64 SU 1258 1.14 1913 2.36	
<b>8</b> 0140 2.82 0723 0.85 FR 1357 2.75 1945 0.56		<b>16</b> 0107 0.60 0818 2.68 SA 1347 1.11 2005 2.43		<b>24</b> 0324 3.02 0907 0.89 SU 1510 2.67 2102 0.44			

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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 - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0101 0.83 0808 2.55 MO 1344 1.15 2014 2.31		<b>9</b> 0404 3.31 0940 0.87 TU 1543 2.77 2142 0.11		<b>17</b> 0405 1.19 1036 2.42 WE 1638 0.86 2345 2.54		<b>25</b> 0438 3.04 1022 0.98 TH 1618 2.59 2212 0.49	
<b>2</b> 0156 0.96 0902 2.49 TU 1443 1.12 2133 2.34		<b>10</b> 0452 3.26 1027 0.85 WE 1630 2.76 2230 0.18		<b>18</b> 0518 1.21 1136 2.41 TH 1736 0.76		<b>26</b> 0512 2.98 1054 0.99 FR 1654 2.55 2245 0.56	
<b>3</b> 0307 1.07 1007 2.47 WE 1555 1.00 2259 2.48		<b>11</b> 0539 3.15 1114 0.86 TH 1718 2.71 ● 2316 0.32		<b>19</b> 0045 2.71 0623 1.17 FR 1230 2.43 ○ 1827 0.65		<b>27</b> 0545 2.90 1126 1.01 SA 1730 2.49 ● 2318 0.64	
<b>4</b> 0431 1.12 1114 2.49 TH 1709 0.81		<b>12</b> 0624 3.01 1200 0.89 FR 1809 2.62		<b>20</b> 0134 2.86 0717 1.12 SA 1316 2.46 1911 0.56		<b>28</b> 0617 2.81 1200 1.00 SU 1812 2.44 2356 0.74	
<b>5</b> 0015 2.72 0552 1.09 FR 1217 2.56 ● 1814 0.58		<b>13</b> 0003 0.50 0709 2.85 SA 1246 0.92 1905 2.51		<b>21</b> 0216 2.98 0801 1.06 SU 1356 2.51 1950 0.48		<b>29</b> 0653 2.73 1237 0.98 MO 1901 2.40	
<b>6</b> 0121 2.97 0700 1.02 SA 1315 2.63 1911 0.37		<b>14</b> 0052 0.71 0754 2.70 SU 1336 0.96 2009 2.41		<b>22</b> 0255 3.05 0841 1.02 MO 1432 2.56 2028 0.44		<b>30</b> 0040 0.86 0732 2.65 TU 1321 0.93 2003 2.39	
<b>7</b> 0220 3.16 0759 0.95 SU 1407 2.70 2003 0.21		<b>15</b> 0146 0.92 0842 2.57 MO 1432 0.96 2121 2.37		<b>23</b> 0330 3.08 0915 0.99 TU 1507 2.59 2103 0.43			
<b>8</b> 0314 3.28 0851 0.90 MO 1456 2.75 2053 0.12		<b>16</b> 0250 1.09 0936 2.48 TU 1534 0.93 2236 2.42		<b>24</b> 0404 3.08 0949 0.98 WE 1543 2.61 2138 0.45			

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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

## DECEMBER - 2021

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0133 1.00 0818 2.57 WE 1414 0.85 2118 2.45		<b>9</b> 0438 3.23 1015 0.86 TH 1619 2.73 2214 0.25		<b>17</b> 0432 1.33 1034 2.33 FR 1645 0.72		<b>25</b> 0453 2.98 1037 0.95 SA 1641 2.54 2226 0.58	
<b>2</b> 0240 1.14 0915 2.51 TH 1516 0.74 2237 2.60		<b>10</b> 0524 3.14 1101 0.80 FR 1713 2.69 2302 0.40		<b>18</b> 0007 2.66 0538 1.33 SA 1130 2.31 1739 0.66		<b>26</b> 0525 2.92 1111 0.90 SU 1722 2.53 2303 0.65	
<b>3</b> 0358 1.23 1019 2.48 FR 1626 0.59 2352 2.81		<b>11</b> 0607 3.03 1148 0.77 SA 1807 2.62 ● 2350 0.59		<b>19</b> 0059 2.78 0637 1.29 SU 1224 2.33 ○ 1828 0.60		<b>27</b> 0556 2.87 1145 0.84 MO 1807 2.51 ● 2344 0.75	
<b>4</b> 0519 1.25 1128 2.49 SA 1734 0.43 ●		<b>12</b> 0647 2.89 1234 0.76 SU 1903 2.54		<b>20</b> 0144 2.89 0727 1.22 MO 1313 2.39 1914 0.54		<b>28</b> 0629 2.80 1223 0.76 TU 1857 2.51	
<b>5</b> 0100 3.02 0633 1.19 SU 1234 2.55 1839 0.27		<b>13</b> 0038 0.79 0727 2.76 MO 1319 0.76 2002 2.47		<b>21</b> 0226 2.97 0811 1.15 TU 1358 2.46 1956 0.49		<b>29</b> 0029 0.87 0703 2.72 WE 1303 0.67 1955 2.53	
<b>6</b> 0200 3.18 0737 1.11 MO 1335 2.62 1937 0.17		<b>14</b> 0128 0.98 0807 2.62 TU 1406 0.77 2104 2.44		<b>22</b> 0305 3.02 0850 1.09 WE 1441 2.52 2035 0.48		<b>30</b> 0120 1.02 0744 2.64 TH 1349 0.59 2100 2.59	
<b>7</b> 0257 3.27 0833 1.01 TU 1431 2.68 2032 0.12		<b>15</b> 0223 1.15 0850 2.50 WE 1456 0.76 2208 2.46		<b>23</b> 0344 3.04 0927 1.04 TH 1521 2.55 2113 0.49		<b>31</b> 0218 1.17 0833 2.57 FR 1445 0.51 2212 2.68	
<b>8</b> 0349 3.28 0925 0.93 WE 1526 2.72 2124 0.15		<b>16</b> 0325 1.27 0939 2.40 TH 1550 0.75 2310 2.54		<b>24</b> 0419 3.02 1002 1.00 FR 1601 2.55 2149 0.53			

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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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Fri	0502	1948	2141	0634
2	Sat	0503	1948	2220	0739
3	Sun	0503	1948	2255	0846
4	Mon	0504	1948	2326	0954
5	Tue	0505	1948	2355	1101
6	Wed	0506	1948		1209
7	Thu	0507	1948	0024	1318
8	Fri	0508	1948	0054	1429
9	Sat	0509	1948	0127	1541
10	Sun	0510	1948	0205	1654
11	Mon	0511	1948	0250	1805
12	Tue	0512	1947	0343	1909
13	Wed	0513	1947	0443	2006
14	Thu	0514	1947	0549	2053
15	Fri	0515	1946	0656	2132
16	Sat	0516	1946	0802	2204
17	Sun	0517	1946	0906	2232
18	Mon	0518	1945	1007	2258
19	Tue	0519	1945	1106	2322
20	Wed	0520	1944	1203	2346
21	Thu	0522	1944	1301	
22	Fri	0523	1943	1359	0012
23	Sat	0524	1943	1458	0039
24	Sun	0525	1942	1557	0111
25	Mon	0526	1941	1657	0148
26	Tue	0527	1940	1754	0231
27	Wed	0528	1940	1848	0322
28	Thu	0530	1939	1936	0421
29	Fri	0531	1938	2018	0525
30	Sat	0532	1937	2055	0633
31	Sun	0533	1937	2128	0743

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Mon	0534	1936	2158	0852
2	Tue	0535	1935	2227	1001
3	Wed	0537	1934	2257	1111
4	Thu	0538	1933	2328	1221
5	Fri	0539	1932		1332
6	Sat	0540	1931	0004	1443
7	Sun	0541	1930	0045	1552
8	Mon	0542	1929	0134	1657
9	Tue	0543	1928	0230	1756
10	Wed	0545	1927	0332	1845
11	Thu	0546	1925	0438	1927
12	Fri	0547	1924	0545	2002
13	Sat	0548	1923	0650	2032
14	Sun	0549	1922	0752	2058
15	Mon	0550	1921	0853	2123
16	Tue	0551	1919	0952	2147
17	Wed	0553	1918	1049	2212
18	Thu	0554	1917	1147	2239
19	Fri	0555	1916	1246	2308
20	Sat	0556	1914	1345	2342
21	Sun	0557	1913	1444	
22	Mon	0558	1912	1542	0022
23	Tue	0559	1910	1636	0109
24	Wed	0600	1909	1727	0204
25	Thu	0601	1908	1811	0306
26	Fri	0602	1906	1851	0413
27	Sat	0603	1905	1925	0523
28	Sun	0604	1904	1957	0635

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Mon	0605	1902	2028	0746
2	Tue	0606	1901	2058	0858
3	Wed	0607	1859	2129	1010
4	Thu	0609	1858	2204	1122
5	Fri	0610	1856	2244	1235
6	Sat	0611	1855	2330	1346
7	Sun	0612	1853		1452
8	Mon	0613	1852	0024	1551
9	Tue	0614	1850	0123	1643
10	Wed	0615	1849	0227	1726
11	Thu	0616	1847	0332	1802
12	Fri	0617	1846	0437	1833
13	Sat	0618	1844	0540	1900
14	Sun	0619	1843	0641	1925
15	Mon	0619	1841	0740	1949
16	Tue	0620	1840	0839	2014
17	Wed	0621	1838	0937	2039
18	Thu	0622	1837	1036	2107
19	Fri	0623	1835	1134	2139
20	Sat	0624	1834	1233	2216
21	Sun	0625	1832	1331	2259
22	Mon	0626	1830	1426	2350
23	Tue	0627	1829	1518	
24	Wed	0628	1827	1603	0048
25	Thu	0629	1826	1644	0151
26	Fri	0630	1824	1721	0259
27	Sat	0631	1823	1753	0410
28	Sun	0632	1821	1824	0522
29	Mon	0633	1820	1855	0635
30	Tue	0634	1818	1927	0749
31	Wed	0635	1817	2001	0904

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Thu	0636	1815	2040	1020
2	Fri	0636	1814	2125	1134
3	Sat	0637	1812	2218	1245
4	Sun	0638	1811	2317	1348
5	Mon	0639	1809		1442
6	Tue	0640	1808	0020	1527
7	Wed	0641	1806	0125	1605
8	Thu	0642	1805	0229	1636
9	Fri	0643	1803	0332	1704
10	Sat	0644	1802	0433	1729
11	Sun	0645	1800	0532	1753
12	Mon	0646	1759	0631	1817
13	Tue	0647	1757	0729	1842
14	Wed	0648	1756	0827	1909
15	Thu	0649	1755	0926	1939
16	Fri	0649	1753	1025	2014
17	Sat	0650	1752	1123	2054
18	Sun	0651	1750	1219	2141
19	Mon	0652	1749	1311	2235
20	Tue	0653	1748	1358	2335
21	Wed	0654	1746	1440	
22	Thu	0655	1745	1517	0040
23	Fri	0656	1744	1550	0147
24	Sat	0657	1742	1621	0257
25	Sun	0658	1741	1651	0408
26	Mon	0659	1740	1721	0521
27	Tue	0700	1739	1754	0637
28	Wed	0701	1737	1832	0754
29	Thu	0701	1736	1915	0912
30	Fri	0702	1735	2006	1028

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Sat	0703	1734	2105	1137
2	Sun	0704	1733	2209	1237
3	Mon	0705	1732	2316	1326
4	Tue	0706	1730		1407
5	Wed	0707	1729	0022	1440
6	Thu	0708	1728	0125	1509
7	Fri	0709	1727	0227	1535
8	Sat	0710	1726	0326	1559
9	Sun	0711	1725	0425	1622
10	Mon	0711	1724	0522	1646
11	Tue	0712	1723	0621	1712
12	Wed	0713	1722	0719	1741
13	Thu	0714	1722	0819	1814
14	Fri	0715	1721	0917	1852
15	Sat	0716	1720	1014	1937
16	Sun	0717	1719	1108	2028
17	Mon	0718	1718	1156	2126
18	Tue	0718	1717	1239	2228
19	Wed	0719	1717	1316	2333
20	Thu	0720	1716	1349	
21	Fri	0721	1715	1420	0039
22	Sat	0722	1715	1449	0147
23	Sun	0722	1714	1518	0257
24	Mon	0723	1713	1548	0409
25	Tue	0724	1713	1623	0525
26	Wed	0725	1712	1703	0642
27	Thu	0726	1712	1751	0800
28	Fri	0726	1711	1847	0915
29	Sat	0727	1711	1951	1022
30	Sun	0728	1710	2100	1118
31	Mon	0728	1710	2208	1204

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Tue	0729	1709	2315	1241
2	Wed	0730	1709		1312
3	Thu	0730	1709	0019	1339
4	Fri	0731	1708	0119	1404
5	Sat	0732	1708	0218	1427
6	Sun	0732	1708	0316	1451
7	Mon	0733	1708	0414	1516
8	Tue	0733	1708	0513	1544
9	Wed	0734	1707	0612	1615
10	Thu	0734	1707	0711	1652
11	Fri	0735	1707	0809	1735
12	Sat	0735	1707	0904	1824
13	Sun	0736	1707	0954	1920
14	Mon	0736	1707	1039	2021
15	Tue	0737	1707	1117	2124
16	Wed	0737	1707	1151	2229
17	Thu	0737	1707	1222	2336
18	Fri	0738	1708	1250	
19	Sat	0738	1708	1318	0042
20	Sun	0738	1708	1347	0151
21	Mon	0738	1708	1418	0302
22	Tue	0739	1708	1454	0416
23	Wed	0739	1709	1537	0533
24	Thu	0739	1709	1628	0649
25	Fri	0739	1709	1729	0800
26	Sat	0739	1709	1837	0903
27	Sun	0739	1710	1948	0955
28	Mon	0739	1710	2058	1037
29	Tue	0739	1711	2205	1112
30	Wed	0739	1711	2308	1141

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Thu	0739	1711		1206
2	Fri	0739	1712	0009	1231
3	Sat	0739	1712	0108	1255
4	Sun	0739	1713	0206	1319
5	Mon	0739	1713	0304	1346
6	Tue	0738	1714	0403	1416
7	Wed	0738	1715	0503	1451
8	Thu	0738	1715	0601	1531
9	Fri	0738	1716	0658	1619
10	Sat	0737	1716	0750	1714
11	Sun	0737	1717	0837	1814
12	Mon	0736	1718	0918	1917
13	Tue	0736	1718	0954	2022
14	Wed	0736	1719	1025	2128
15	Thu	0735	1720	1054	2235
16	Fri	0735	1720	1121	2341
17	Sat	0734	1721	1149	
18	Sun	0733	1722	1218	0050
19	Mon	0733	1723	1251	0201
20	Tue	0732	1723	1329	0314
21	Wed	0732	1724	1415	0428
22	Thu	0731	1725	1511	0540
23	Fri	0730	1726	1615	0646
24	Sat	0729	1726	1725	0742
25	Sun	0729	1727	1836	0829
26	Mon	0728	1728	1946	0907
27	Tue	0727	1729	2052	0939
28	Wed	0726	1730	2155	1007
29	Thu	0725	1731	2256	1032
30	Fri	0724	1731	2356	1056
31	Sat	0724	1732		1121

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Sun	0723	1733	0055	1147
2	Mon	0722	1734	0154	1216
3	Tue	0721	1735	0253	1248
4	Wed	0720	1736	0352	1327
5	Thu	0719	1736	0449	1412
6	Fri	0717	1737	0543	1504
7	Sat	0716	1738	0633	1603
8	Sun	0715	1739	0716	1706
9	Mon	0714	1740	0754	1812
10	Tue	0713	1741	0827	1919
11	Wed	0712	1742	0857	2027
12	Thu	0711	1742	0925	2134
13	Fri	0709	1743	0952	2242
14	Sat	0708	1744	1021	2352
15	Sun	0707	1745	1052	
16	Mon	0706	1746	1128	0103
17	Tue	0704	1747	1210	0216
18	Wed	0703	1748	1301	0327
19	Thu	0702	1748	1400	0434
20	Fri	0700	1749	1506	0532
21	Sat	0659	1750	1616	0622
22	Sun	0658	1751	1726	0703
23	Mon	0656	1752	1834	0737
24	Tue	0655	1753	1939	0806
25	Wed	0654	1754	2042	0832
26	Thu	0652	1754	2143	0857
27	Fri	0651	1755	2243	0921
28	Sat	0649	1756	2342	0947
29	Sun	0648	1757		1014
30	Mon	0646	1758	0042	1046
31	Tue	0645	1759	0141	1122

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Wed	0643	1800	0239	1204
2	Thu	0642	1800	0334	1253
3	Fri	0640	1801	0425	1349
4	Sat	0639	1802	0511	1451
5	Sun	0637	1803	0551	1556
6	Mon	0636	1804	0626	1704
7	Tue	0634	1805	0657	1813
8	Wed	0633	1806	0726	1922
9	Thu	0631	1806	0754	2031
10	Fri	0630	1807	0823	2142
11	Sat	0628	1808	0853	2255
12	Sun	0627	1809	0928	
13	Mon	0625	1810	1008	0008
14	Tue	0623	1811	1056	0120
15	Wed	0622	1812	1152	0227
16	Thu	0620	1812	1255	0328
17	Fri	0619	1813	1403	0419
18	Sat	0617	1814	1512	0501
19	Sun	0616	1815	1620	0536
20	Mon	0614	1816	1725	0607
21	Tue	0612	1817	1828	0633
22	Wed	0611	1818	1930	0658
23	Thu	0609	1818	2030	0723
24	Fri	0608	1819	2130	0747
25	Sat	0606	1820	2231	0814
26	Sun	0605	1821	2330	0844
27	Mon	0603	1822		0917
28	Tue	0601	1823	0029	0957
29	Wed	0600	1824	0125	1043
30	Thu	0558	1825	0217	1135

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Fri	0557	1826	0305	1234
2	Sat	0555	1827	0346	1337
3	Sun	0554	1827	0423	1444
4	Mon	0552	1828	0455	1552
5	Tue	0551	1829	0525	1701
6	Wed	0549	1830	0553	1812
7	Thu	0548	1831	0622	1924
8	Fri	0546	1832	0652	2038
9	Sat	0544	1833	0726	2154
10	Sun	0543	1834	0805	2309
11	Mon	0542	1835	0851	
12	Tue	0540	1836	0946	0020
13	Wed	0539	1837	1048	0124
14	Thu	0537	1838	1154	0218
15	Fri	0536	1839	1303	0302
16	Sat	0534	1840	1410	0339
17	Sun	0533	1841	1515	0410
18	Mon	0531	1842	1618	0437
19	Tue	0530	1843	1720	0502
20	Wed	0529	1844	1820	0526
21	Thu	0527	1845	1920	0550
22	Fri	0526	1846	2020	0616
23	Sat	0525	1847	2120	0644
24	Sun	0523	1848	2220	0716
25	Mon	0522	1849	2317	0753
26	Tue	0521	1850		0836
27	Wed	0520	1851	0011	0925
28	Thu	0518	1852	0059	1021
29	Fri	0517	1853	0142	1121
30	Sat	0516	1854	0220	1225
31	Sun	0515	1855	0253	1331

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Mon	0514	1857	0323	1438
2	Tue	0512	1858	0351	1547
3	Wed	0511	1859	0419	1658
4	Thu	0510	1900	0448	1812
5	Fri	0509	1901	0520	1929
6	Sat	0508	1902	0557	2047
7	Sun	0507	1903	0641	2204
8	Mon	0506	1904	0734	2314
9	Tue	0505	1905	0836	
10	Wed	0504	1906	0944	0013
11	Thu	0503	1908	1053	0102
12	Fri	0503	1909	1202	0142
13	Sat	0502	1910	1308	0214
14	Sun	0501	1911	1412	0242
15	Mon	0500	1912	1513	0307
16	Tue	0459	1913	1613	0331
17	Wed	0459	1914	1712	0355
18	Thu	0458	1915	1812	0419
19	Fri	0457	1916	1912	0446
20	Sat	0457	1917	2012	0516
21	Sun	0456	1919	2110	0551
22	Mon	0455	1920	2205	0632
23	Tue	0455	1921	2256	0720
24	Wed	0454	1922	2340	0813
25	Thu	0454	1923		0911
26	Fri	0454	1924	0019	1013
27	Sat	0453	1925	0053	1116
28	Sun	0453	1926	0123	1220
29	Mon	0452	1927	0151	1326
30	Tue	0452	1928	0217	1434

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 2021

<b>Date</b>	<b>Day</b>	<b>Sunrise</b>	<b>Sunset</b>	<b>Moonrise</b>	<b>Moonset</b>
1	Wed	0452	1929	0244	1544
2	Thu	0452	1930	0314	1658
3	Fri	0452	1931	0348	1816
4	Sat	0451	1932	0428	1935
5	Sun	0451	1933	0517	2051
6	Mon	0451	1934	0616	2158
7	Tue	0451	1934	0724	2254
8	Wed	0451	1935	0836	2339
9	Thu	0451	1936	0948	
10	Fri	0451	1937	1058	0015
11	Sat	0451	1938	1203	0046
12	Sun	0452	1939	1306	0112
13	Mon	0452	1939	1406	0136
14	Tue	0452	1940	1506	0200
15	Wed	0452	1941	1605	0224
16	Thu	0452	1941	1705	0250
17	Fri	0453	1942	1804	0319
18	Sat	0453	1943	1903	0352
19	Sun	0454	1943	2000	0431
20	Mon	0454	1944	2052	0516
21	Tue	0454	1944	2139	0608
22	Wed	0455	1945	2219	0705
23	Thu	0455	1945	2254	0805
24	Fri	0456	1946	2325	0908
25	Sat	0457	1946	2353	1011
26	Sun	0457	1947		1115
27	Mon	0458	1947	0019	1219
28	Tue	0459	1947	0045	1325
29	Wed	0459	1947	0112	1435
30	Thu	0500	1948	0142	1548
31	Fri	0501	1948	0217	1705

Based on Geoscience Australia material

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[illegible]

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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