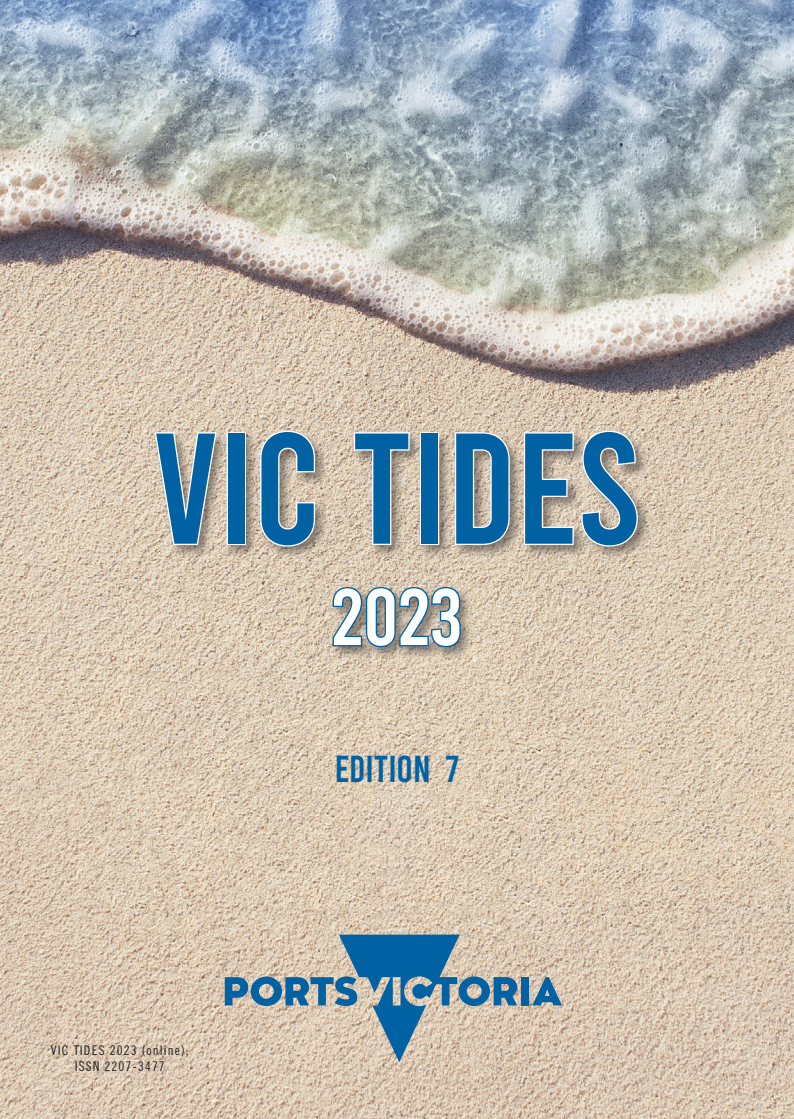




VIC TIDES

2023

EDITION 7



VIC TIDES 2023 (online):
ISSN 2207-3477

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

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

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

KEEP CLEAR OF BIG SHIPS

ADVICE FOR RECREATIONAL BOAT OWNERS TO STAY SAFE:



Always keep a lookout – you might not hear a vessel approach over your engine noise and the sound of wind and water.



Always show appropriate lights at night.



After ships pass, be prepared for large waves that may swamp or capsize your boat.



Do not anchor in the channels – it is illegal.



Do not anchor or drift in a Transit Only Zone – it is illegal.



If an approaching big ship is blowing its whistle it means: **'GET OUT OF THE WAY'.**



Do not tie to navigation aids like buoys and channel marks, it is illegal.



Help us to keep navigation in the channels and port waters safe for all vessels.



Cross channels only when safe to do so.





Ports Victoria is pleased to produce the Victorian Tide Tables booklet for 2023.

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

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

'Keep Clear of Big Ships'

Comply with the International Regulations for Preventing Collisions at Sea

Comply with Maritime Safety Victoria's waterway rules: and always

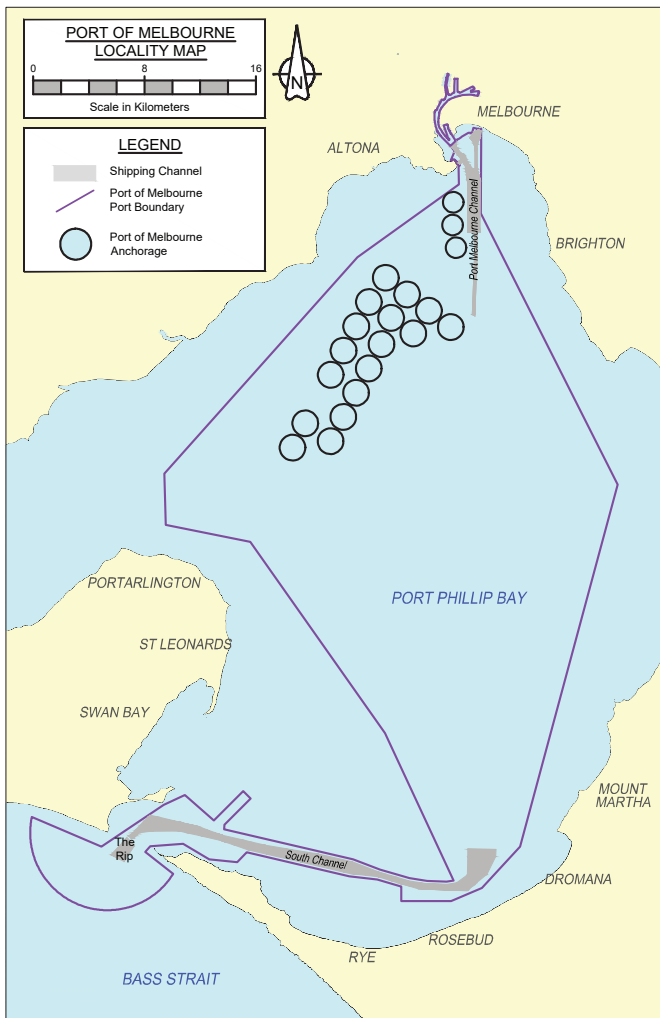
Make sure your boat and engine are seaworthy before you head out.

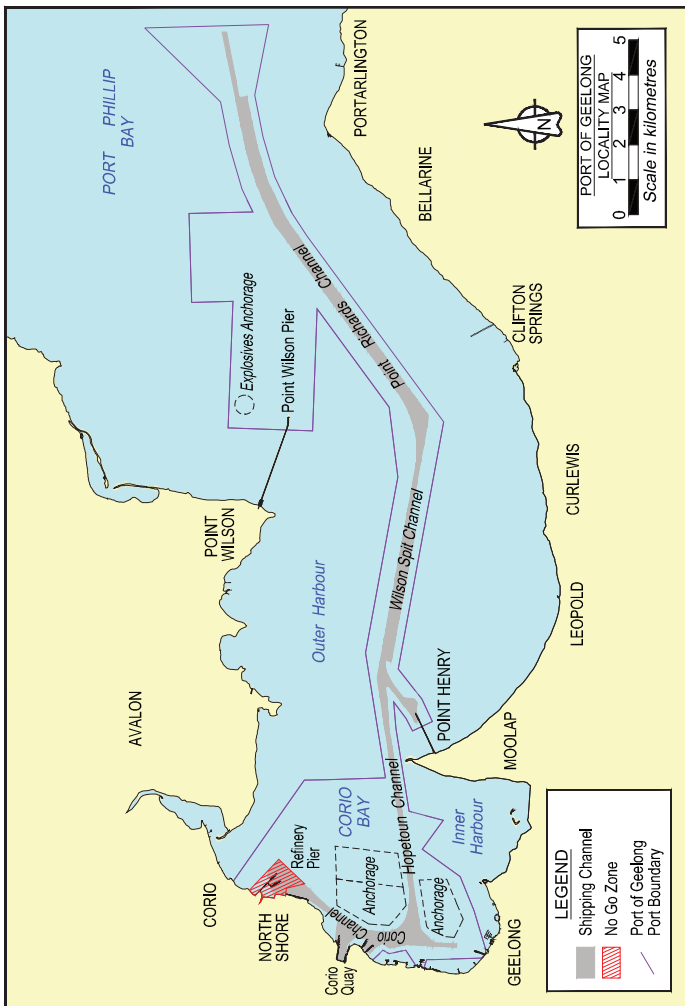
This edition marks the final edition to be produced as a printed book.

Brendan Webb

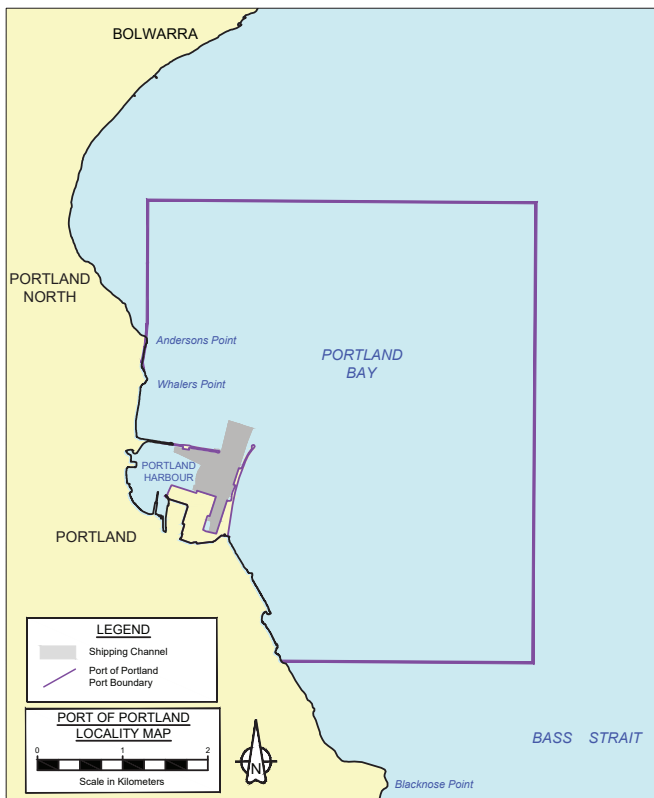
Chief Operating Officer

Ports Victoria









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

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

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About Ports Victoria

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

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

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

For more information, please visit our website at ports.vic.gov.au.



Glossary

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

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

Geelong Datums

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

AHD metres	Predominantly diurnal tides	Chart Datum metres
1.13	Highest recorded tide 05/07/2011 (1965-2020)	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
0.000	Australian Height Datum	0.580
-0.33	Mean Lower Low Water (MLLW)	0.25
-0.524	Chart Datum (Outer Harbour)	0.056
-0.580	Chart & Prediction Datum (Geelong)	0.000
	Lowest Astronomical Tide (LAT)	
-0.81	Lowest recorded tide 07/03/1972 (1965-2020)	-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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0335 0.38 0954 1.05 SU 1634 0.26 2242 0.95		9 0530 1.05 1147 0.51 MO 1547 0.89 2320 0.21		17 0330 0.45 0939 1.02 TU 1630 0.26 2239 0.91		25 0605 1.07 1225 0.40 WE 1738 0.97	
2 0422 0.46 1034 1.01 MO 1725 0.24 2344 0.94		10 0607 1.05 1224 0.48 TU 1640 0.89		18 0412 0.51 1014 1.00 WE 1717 0.23 2339 0.90		26 0027 0.18 0647 1.08 TH 1313 0.33 1845 0.99	
3 0515 0.53 1113 0.97 TU 1818 0.23		11 0000 0.22 0639 1.04 WE 1256 0.46 1735 0.89		19 0500 0.58 1051 0.98 TH 1815 0.21		27 0113 0.22 0728 1.09 FR 1357 0.27 1944 1.01	
4 0048 0.95 0627 0.59 WE 1147 0.94 1913 0.22		12 0038 0.24 0709 1.04 TH 1327 0.43 1831 0.89		20 0059 0.90 0559 0.63 FR 1137 0.96 1923 0.18		28 0156 0.28 0807 1.09 SA 1440 0.23 2036 1.02	
5 0156 0.97 0757 0.61 TH 1225 0.91 2007 0.21		13 0112 0.27 0737 1.04 FR 1358 0.40 1924 0.90		21 0223 0.93 0719 0.66 SA 1238 0.94 2033 0.16		29 0237 0.34 0845 1.07 SU 1523 0.21 ● 2128 1.01	
6 0300 1.00 0912 0.60 FR 1313 0.89 2059 0.21		14 0145 0.30 0806 1.04 SA 1431 0.37 2013 0.91		22 0331 0.97 0909 0.63 SU 1356 0.93 ● 2139 0.14		30 0318 0.40 0922 1.05 MO 1606 0.20 2219 0.99	
7 0359 1.03 1014 0.57 SA 1404 0.88 ○ 2148 0.20		15 0218 0.34 0836 1.04 SU 1508 0.33 ● 2100 0.92		23 0428 1.01 1030 0.57 MO 1511 0.94 2240 0.13		31 0400 0.47 0957 1.01 TU 1650 0.21 2313 0.96	
8 0448 1.05 1104 0.54 SU 1456 0.88 2236 0.20		16 0253 0.39 0907 1.03 MO 1546 0.30 2147 0.92		24 0519 1.05 1132 0.49 TU 1622 0.95 2336 0.15			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0441 0.53 1027 0.97 WE 1736 0.22		9 0611 1.01 1230 0.39 TH 1756 0.89		17 0430 0.57 1016 0.98 FR 1739 0.20		25 0102 0.29 0700 1.06 SA 1333 0.20 1932 1.07	
2 0010 0.94 0525 0.59 TH 1058 0.93 1824 0.23		10 0025 0.28 0639 1.02 FR 1300 0.35 1841 0.92		18 0023 0.89 0526 0.61 SA 1107 0.95 1849 0.20		26 0143 0.34 0736 1.06 SU 1414 0.18 2019 1.07	
3 0114 0.92 0625 0.62 FR 1142 0.89 1918 0.24		11 0058 0.31 0707 1.02 SA 1332 0.32 1923 0.95		19 0145 0.89 0647 0.63 SU 1222 0.92 2007 0.20		27 0221 0.38 0812 1.06 MO 1452 0.18 2104 1.06	
4 0225 0.93 0827 0.62 SA 1237 0.86 2018 0.24		12 0127 0.34 0734 1.03 SU 1405 0.29 2003 0.97		20 0257 0.92 0846 0.58 MO 1351 0.91 2119 0.19		28 0258 0.43 0845 1.03 TU 1530 0.19 2150 1.03	
5 0330 0.95 0945 0.58 SU 1335 0.84 2121 0.24		13 0157 0.37 0802 1.03 MO 1440 0.26 2045 0.98		21 0359 0.96 1009 0.49 TU 1512 0.92 2225 0.20			
6 0422 0.97 1039 0.53 MO 1435 0.83 2218 0.23		14 0230 0.41 0833 1.03 TU 1516 0.23 2129 0.97		22 0451 1.00 1113 0.39 WE 1635 0.95 2325 0.22			
7 0503 0.99 1120 0.47 TU 1542 0.84 2307 0.23		15 0305 0.46 0905 1.02 WE 1557 0.22 2215 0.95		23 0538 1.03 1206 0.31 TH 1746 1.00			
8 0539 1.00 1157 0.43 WE 1659 0.86 2348 0.25		16 0345 0.52 0939 1.00 TH 1643 0.20 2311 0.91		24 0017 0.25 0620 1.05 FR 1252 0.24 1843 1.04			

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Datum is Lowest Astronomical Tide

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

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2023

Time	m	Time	m	Time	m	Time	m
1 0334 0.48 0916 1.00 WE 1610 0.21 2237 0.99		9 0500 0.96 1119 0.37 TH 1708 0.91 2330 0.32		17 0322 0.54 0912 1.00 FR 1614 0.22 2250 0.94		25 0005 0.36 0547 1.02 SA 1225 0.20 1830 1.12	
2 0408 0.52 0945 0.96 TH 1650 0.23 2326 0.94		10 0532 0.98 1154 0.32 FR 1751 0.96		18 0410 0.57 0955 0.97 SA 1709 0.24 2355 0.91		26 0048 0.39 0624 1.03 SU 1303 0.18 1915 1.13	
3 0443 0.57 1021 0.91 FR 1733 0.25		11 0007 0.35 0601 0.99 SA 1229 0.28 1831 1.01		19 0515 0.59 1058 0.93 SU 1818 0.26		27 0126 0.42 0658 1.04 MO 1340 0.19 1957 1.13	
4 0021 0.90 0526 0.60 SA 1108 0.87 1825 0.28		12 0039 0.38 0630 1.01 SU 1301 0.26 1910 1.04		20 0105 0.91 0650 0.57 MO 1229 0.90 1940 0.28		28 0201 0.45 0730 1.04 TU 1415 0.20 2038 1.11	
5 0130 0.88 0638 0.61 SU 1205 0.82 1935 0.30		13 0107 0.41 0657 1.02 MO 1335 0.24 1948 1.05		21 0215 0.92 0829 0.50 TU 1359 0.91 2100 0.30		29 0235 0.48 0803 1.02 WE 1452 0.22 2119 1.07	
6 0244 0.89 0906 0.57 MO 1313 0.80 2055 0.31		14 0135 0.44 0728 1.03 TU 1410 0.22 2028 1.04		22 0319 0.95 0947 0.40 WE 1528 0.95 2213 0.31		30 0308 0.51 0835 0.99 TH 1528 0.24 2200 1.03	
7 0340 0.91 1000 0.50 TU 1446 0.80 2158 0.30		15 0206 0.47 0800 1.03 WE 1447 0.21 2110 1.02		23 0416 0.98 1049 0.31 TH 1643 1.02 2314 0.33		31 0340 0.54 0909 0.95 FR 1605 0.27 2242 0.98	
8 0423 0.94 1042 0.43 WE 1615 0.85 2247 0.31		16 0242 0.51 0834 1.02 TH 1528 0.21 2156 0.98		24 0505 1.00 1141 0.24 FR 1741 1.08			

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Datum is Lowest Astronomical Tide

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0415 0.57 0948 0.91 SA 1645 0.31 2329 0.94		9 0514 0.99 1152 0.25 SU 1814 1.11		17 0530 0.55 1113 0.92 MO 1751 0.37		25 0107 0.52 0606 1.04 TU 1303 0.23 1933 1.17	
2 0500 0.59 1036 0.85 SU 1730 0.35		10 0017 0.50 0545 1.01 MO 1230 0.23 1853 1.13		18 0029 0.97 0651 0.49 TU 1244 0.92 1912 0.42		26 0140 0.53 0642 1.04 WE 1338 0.25 2011 1.15	
3 0024 0.90 0609 0.59 MO 1136 0.81 1835 0.40		11 0046 0.52 0616 1.03 TU 1306 0.22 1932 1.12		19 0130 0.97 0812 0.41 WE 1412 0.96 2042 0.45		27 0213 0.54 0719 1.03 TH 1413 0.27 2048 1.11	
4 0130 0.89 0806 0.55 TU 1310 0.79 2017 0.43		12 0115 0.54 0652 1.04 WE 1344 0.22 2013 1.10		20 0233 0.98 0922 0.33 TH 1531 1.03 ● 2159 0.46		28 0245 0.56 0758 1.00 FR 1448 0.30 ● 2125 1.07	
5 0235 0.90 0909 0.47 WE 1459 0.84 2127 0.43		13 0148 0.55 0730 1.04 TH 1422 0.23 ● 2056 1.07		21 0332 0.99 1020 0.26 FR 1634 1.11 2259 0.47		29 0319 0.57 0837 0.96 SA 1524 0.33 2202 1.04	
6 0326 0.93 0955 0.39 TH 1601 0.92 ○ 2219 0.44		14 0227 0.57 0811 1.03 FR 1504 0.24 2142 1.04		22 0422 1.00 1110 0.22 SA 1726 1.16 2348 0.48		30 0359 0.58 0920 0.91 SU 1600 0.38 2242 1.00	
7 0407 0.95 1035 0.33 FR 1649 1.00 2303 0.45		15 0314 0.58 0856 1.00 SA 1551 0.27 2233 1.00		23 0502 1.01 1151 0.22 SU 1812 1.18			
8 0442 0.97 1115 0.28 SA 1732 1.06 2343 0.47		16 0415 0.57 0952 0.96 SU 1645 0.31 2330 0.98		24 0030 0.50 0534 1.03 MO 1229 0.22 1853 1.19			

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GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2023

Time	m	Time	m	Time	m	Time	m
1 0446 0.58 1010 0.87 MO 1640 0.44 2325 0.98		9 0458 1.04 1200 0.23 TU 1836 1.19		17 0641 0.42 1251 0.98 WE 1845 0.56		25 0122 0.59 0557 1.04 TH 1304 0.30 1946 1.17	
2 0547 0.56 1117 0.84 TU 1728 0.51		10 0033 0.62 0539 1.06 WE 1243 0.23 1918 1.18		18 0046 1.04 0749 0.35 TH 1411 1.04 2022 0.60		26 0155 0.60 0643 1.02 FR 1340 0.32 2020 1.14	
3 0013 0.96 0702 0.51 WE 1308 0.84 1858 0.57		11 0110 0.62 0623 1.07 TH 1324 0.25 2000 1.16		19 0140 1.02 0852 0.29 FR 1520 1.11 2138 0.60		27 0229 0.60 0728 0.99 SA 1415 0.35 2054 1.12	
4 0105 0.95 0810 0.44 TH 1435 0.91 2040 0.59		12 0150 0.61 0709 1.06 FR 1405 0.27 2044 1.13		20 0231 1.01 0946 0.26 SA 1618 1.17 ● 2238 0.60		28 0304 0.59 0813 0.96 SU 1450 0.39 ● 2127 1.10	
5 0200 0.95 0903 0.37 FR 1536 1.00 2141 0.60		13 0237 0.60 0759 1.04 SA 1448 0.30 ● 2129 1.11		21 0311 1.01 1034 0.25 SU 1709 1.21 2328 0.59		29 0344 0.58 0902 0.93 MO 1525 0.44 2201 1.08	
6 0251 0.97 0950 0.30 SA 1626 1.09 ○ 2230 0.60		14 0331 0.57 0857 1.00 SU 1534 0.35 2215 1.09		22 0344 1.03 1115 0.26 MO 1753 1.22		30 0428 0.55 0959 0.90 TU 1601 0.51 2236 1.06	
7 0335 0.99 1035 0.26 SU 1711 1.15 2315 0.61		15 0430 0.54 1009 0.97 MO 1626 0.42 2303 1.07		23 0011 0.59 0425 1.04 TU 1152 0.27 1833 1.21		31 0517 0.51 1106 0.89 WE 1643 0.58 2314 1.04	
8 0417 1.02 1118 0.24 MO 1754 1.18 2356 0.61		16 0532 0.48 1130 0.96 TU 1725 0.49 2354 1.05		24 0048 0.59 0511 1.05 WE 1228 0.28 1911 1.19			

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GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2023

Time	m	Time	m	Time	m	Time	m
1 0614 0.46 1231 0.91 TH 1738 0.66 2354 1.03		9 0113 0.63 0605 1.08 FR 1311 0.27 1947 1.20		17 0044 1.05 0817 0.29 SA 1500 1.12 2110 0.70		25 0212 0.58 0711 0.98 SU 1351 0.39 2023 1.14	
2 0715 0.40 1359 0.97 FR 1907 0.71		10 0200 0.59 0702 1.07 SA 1354 0.31 2029 1.18		18 0124 1.03 0911 0.28 SU 1559 1.17 ● 2214 0.68		26 0245 0.55 0804 0.96 MO 1424 0.43 ● 2053 1.13	
3 0038 1.02 0814 0.34 SA 1505 1.05 2044 0.73		11 0245 0.55 0806 1.05 SU 1437 0.36 ● 2111 1.17		19 0209 1.03 1000 0.28 MO 1650 1.19 2307 0.65		27 0320 0.52 0857 0.95 TU 1459 0.48 2123 1.13	
4 0130 1.02 0909 0.29 SU 1600 1.12 ○ 2150 0.72		12 0334 0.50 0914 1.03 MO 1521 0.43 2153 1.15		20 0257 1.03 1044 0.29 TU 1735 1.20 2352 0.63		28 0400 0.48 0948 0.95 WE 1534 0.54 2155 1.11	
5 0229 1.03 1000 0.25 MO 1649 1.18 2246 0.71		13 0426 0.45 1022 1.01 TU 1608 0.50 2236 1.13		21 0346 1.03 1124 0.30 WE 1815 1.19		29 0444 0.44 1044 0.95 TH 1615 0.61 2229 1.09	
6 0327 1.05 1051 0.23 TU 1736 1.20 2337 0.69		14 0521 0.40 1130 1.02 WE 1701 0.59 2319 1.10		22 0032 0.62 0436 1.03 TH 1203 0.31 1851 1.17		30 0532 0.40 1147 0.96 FR 1703 0.68 2306 1.08	
7 0420 1.07 1139 0.23 WE 1821 1.21		15 0620 0.36 1241 1.04 TH 1813 0.66		23 0107 0.61 0526 1.02 FR 1241 0.33 1924 1.16			
8 0026 0.66 0512 1.08 TH 1226 0.24 1905 1.21		16 0002 1.07 0720 0.32 FR 1353 1.08 1951 0.70		24 0140 0.59 0617 1.00 SA 1316 0.36 1954 1.15			

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Datum is Lowest Astronomical Tide

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2023

Time	m	Time	m	Time	m	Time	m
1 0628 0.36 1310 0.98 SA 1803 0.75 2349 1.06		9 0150 0.49 0715 1.07 SU 1343 0.33 2008 1.20		17 0045 1.01 0834 0.29 MO 1536 1.09 2148 0.70		25 0218 0.46 0800 0.99 TU 1401 0.44 2018 1.13	
2 0730 0.31 1430 1.04 SU 1925 0.78		10 0235 0.44 0817 1.07 MO 1425 0.40 ● 2047 1.19		18 0138 0.99 0929 0.29 TU 1630 1.12 ● 2246 0.65		26 0251 0.43 0845 0.99 WE 1434 0.48 ● 2047 1.13	
3 0041 1.05 0833 0.27 MO 1534 1.09 ○ 2103 0.78		11 0321 0.39 0916 1.06 TU 1507 0.47 2127 1.17		19 0231 0.98 1020 0.29 WE 1715 1.13 2332 0.61		27 0329 0.39 0930 0.99 TH 1510 0.54 2118 1.11	
4 0145 1.04 0933 0.24 TU 1628 1.14 2218 0.73		12 0409 0.35 1014 1.05 WE 1551 0.55 2205 1.14		20 0324 0.97 1107 0.30 TH 1754 1.13		28 0408 0.36 1017 0.98 FR 1548 0.60 2151 1.10	
5 0255 1.05 1030 0.22 WE 1717 1.17 2320 0.68		13 0458 0.33 1114 1.04 TH 1639 0.62 2243 1.10		21 0012 0.58 0418 0.97 FR 1149 0.32 1828 1.13		29 0454 0.33 1112 0.97 SA 1632 0.66 2227 1.07	
6 0358 1.07 1123 0.22 TH 1803 1.19		14 0550 0.31 1217 1.04 FR 1736 0.69 2316 1.07		22 0045 0.55 0519 0.97 SA 1227 0.34 1857 1.13		30 0546 0.31 1222 0.96 SU 1725 0.72 2309 1.05	
7 0014 0.62 0500 1.07 FR 1214 0.24 1846 1.20		15 0645 0.30 1325 1.05 SA 1900 0.73 2356 1.03		23 0117 0.53 0623 0.97 SU 1300 0.37 1925 1.12		31 0651 0.28 1349 0.97 MO 1832 0.75	
8 0103 0.55 0606 1.08 SA 1300 0.28 1928 1.20		16 0740 0.29 1432 1.07 SU 2033 0.73		24 0147 0.50 0715 0.98 MO 1331 0.41 1951 1.13			

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GEELONG

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

AUGUST – 2023

Time	m	Time	m	Time	m	Time	m
1 0005 1.03 0802 0.25 TU 1502 1.01 2021 0.75		9 0259 0.28 0902 1.09 WE 1452 0.48 2056 1.14		17 0217 0.90 1003 0.30 TH 1646 1.04 2304 0.54		25 0256 0.31 0907 1.01 FR 1444 0.52 2045 1.08	
2 0122 1.01 0910 0.22 WE 1600 1.06 ○ 2153 0.68		10 0342 0.27 0954 1.07 TH 1533 0.54 2131 1.11		18 0331 0.90 1053 0.30 FR 1723 1.06 2342 0.49		26 0335 0.29 0952 0.99 SA 1522 0.57 2118 1.06	
3 0241 1.02 1012 0.21 TH 1652 1.10 2300 0.60		11 0427 0.27 1046 1.03 FR 1615 0.60 2203 1.07		19 0457 0.92 1136 0.32 SA 1755 1.06		27 0418 0.27 1043 0.95 SU 1604 0.62 2154 1.04	
4 0353 1.04 1108 0.22 FR 1739 1.13 2356 0.51		12 0514 0.28 1144 1.00 SA 1659 0.65 2236 1.03		20 0015 0.45 0547 0.95 SU 1212 0.35 1824 1.07		28 0510 0.27 1146 0.92 MO 1655 0.66 2240 1.01	
5 0507 1.05 1201 0.25 SA 1822 1.15		13 0602 0.29 1245 0.98 SU 1755 0.69 2320 0.98		21 0045 0.42 0630 0.98 MO 1243 0.38 1849 1.08		29 0615 0.26 1305 0.91 TU 1804 0.68 2348 0.98	
6 0045 0.43 0617 1.07 SU 1248 0.30 1902 1.16		14 0658 0.30 1356 0.98 MO 1939 0.70		22 0115 0.39 0708 1.01 TU 1311 0.41 1915 1.09		30 0733 0.25 1420 0.94 WE 1958 0.65	
7 0131 0.36 0717 1.09 MO 1331 0.35 1941 1.17		15 0015 0.94 0759 0.30 TU 1506 0.99 2119 0.66		23 0146 0.36 0746 1.02 WE 1338 0.44 1942 1.09		31 0118 0.96 0847 0.24 TH 1524 0.98 ○ 2129 0.56	
8 0215 0.31 0811 1.10 TU 1413 0.41 ● 2019 1.16		16 0115 0.91 0904 0.30 WE 1602 1.02 ● 2219 0.60		24 0219 0.33 0826 1.02 TH 1409 0.48 ● 2012 1.09			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0242 0.98 0954 0.24 FR 1619 1.02 2237 0.46		9 0349 0.25 1015 1.01 SA 1550 0.55 2127 1.02		17 0454 0.95 1115 0.35 SU 1714 0.99 2336 0.35		25 0348 0.25 1020 0.94 MO 1544 0.57 2133 0.99	
2 0402 1.02 1055 0.26 SA 1708 1.06 2333 0.37		10 0432 0.27 1105 0.97 SU 1630 0.59 2203 0.97		18 0536 1.00 1151 0.38 MO 1742 1.01		26 0439 0.26 1119 0.91 TU 1641 0.59 2230 0.95	
3 0515 1.06 1149 0.29 SU 1752 1.08		11 0518 0.30 1200 0.93 MO 1717 0.62 2250 0.91		19 0008 0.32 0615 1.03 TU 1222 0.41 1808 1.02		27 0544 0.28 1227 0.90 WE 1804 0.58 2352 0.92	
4 0023 0.29 0615 1.10 MO 1237 0.33 1831 1.10		12 0611 0.32 1305 0.90 TU 1838 0.64 2350 0.86		20 0041 0.29 0651 1.05 WE 1248 0.44 1834 1.04		28 0702 0.30 1334 0.91 TH 1944 0.51	
5 0107 0.25 0706 1.12 TU 1319 0.38 1909 1.11		13 0720 0.34 1417 0.90 WE 2039 0.60		21 0114 0.27 0728 1.06 TH 1315 0.46 1905 1.05		29 0126 0.93 0824 0.31 FR 1439 0.94 ○ 2105 0.42	
6 0148 0.22 0754 1.12 WE 1358 0.42 1945 1.11		14 0105 0.84 0839 0.34 TH 1517 0.93 2140 0.53		22 0148 0.26 0805 1.05 FR 1345 0.49 1939 1.05		30 0252 0.98 0937 0.32 SA 1539 0.97 2211 0.32	
7 0229 0.22 0841 1.10 TH 1435 0.47 ● 2020 1.09		15 0248 0.84 0943 0.33 FR 1603 0.95 ● 2224 0.46		23 0225 0.25 0846 1.02 SA 1420 0.51 ● 2015 1.04			
8 0309 0.23 0928 1.06 FR 1513 0.51 2054 1.06		16 0404 0.89 1032 0.33 SA 1641 0.97 2301 0.39		24 0304 0.24 0930 0.98 SU 1500 0.55 2051 1.02			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0409 1.04 SU 1041 0.34 1630 0.99 2306 0.25		9 0351 0.28 1027 0.96 MO 1612 0.55 2134 0.90		17 0515 1.05 1127 0.45 TU 1649 0.96 2330 0.23		25 0415 0.29 1055 0.94 WE 1652 0.51 2237 0.91	
2 0511 1.10 1136 0.36 MO 1715 1.02 2354 0.20		10 0433 0.32 1115 0.91 TU 1700 0.57 2225 0.85		18 0555 1.09 1159 0.47 WE 1720 0.98		26 0515 0.33 1151 0.93 TH 1809 0.46	
3 0602 1.13 1223 0.39 TU 1754 1.03		11 0521 0.36 1207 0.88 WE 1808 0.56 2332 0.80		19 0006 0.22 0632 1.10 TH 1227 0.49 1754 1.00		27 0007 0.90 0630 0.39 FR 1250 0.93 1928 0.38	
4 0037 0.19 0649 1.14 WE 1303 0.42 1830 1.05		12 0626 0.41 1307 0.87 TH 1942 0.52		20 0043 0.21 0710 1.09 FR 1255 0.50 1830 1.01		28 0135 0.94 0800 0.42 SA 1349 0.93 2040 0.29	
5 0115 0.19 0733 1.13 TH 1340 0.44 1904 1.05		13 0119 0.80 0802 0.43 FR 1409 0.87 2047 0.45		21 0121 0.21 0748 1.07 SA 1327 0.51 1909 1.01		29 0256 1.01 0920 0.43 SU 1447 0.94 2142 0.22	
6 0154 0.20 0816 1.10 FR 1415 0.47 1941 1.03		14 0247 0.85 0913 0.43 SA 1502 0.89 2134 0.37		22 0200 0.22 0830 1.03 SU 1405 0.52 1950 1.00		30 0403 1.08 1026 0.44 MO 1540 0.95 2235 0.18	
7 0232 0.22 0900 1.06 SA 1452 0.49 2016 1.00		15 0346 0.93 1004 0.43 SU 1544 0.91 2215 0.31		23 0240 0.23 0914 0.99 MO 1449 0.53 2034 0.98		31 0459 1.13 1120 0.45 TU 1623 0.97 2322 0.17	
8 0311 0.25 0943 1.01 SU 1530 0.52 2054 0.96		16 0433 1.00 1048 0.43 MO 1619 0.93 2253 0.26		24 0324 0.25 1002 0.96 TU 1544 0.53 2127 0.94			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0546 1.15 1206 0.46 WE 1659 0.98		9 0430 0.41 1110 0.91 TH 1737 0.48 2325 0.79		17 0615 1.12 1214 0.54 FR 1718 0.98		25 0014 0.92 0558 0.48 SA 1208 0.96 1908 0.27	
2 0003 0.17 0631 1.15 TH 1246 0.47 1736 1.00		10 0519 0.47 1153 0.89 FR 1840 0.44		18 0020 0.18 0656 1.10 SA 1250 0.53 1802 0.99		26 0133 0.97 0731 0.53 SU 1257 0.95 2012 0.21	
3 0041 0.19 0713 1.12 FR 1323 0.47 1817 1.00		11 0101 0.81 0636 0.53 SA 1239 0.88 1945 0.38		19 0101 0.19 0736 1.08 SU 1330 0.53 1848 0.99		27 0246 1.03 0859 0.54 MO 1345 0.94 ○ 2110 0.18	
4 0119 0.21 0753 1.09 SA 1359 0.48 1900 0.98		12 0220 0.87 0823 0.55 SU 1329 0.88 2039 0.31		20 0143 0.21 0817 1.05 MO 1414 0.51 ● 1937 0.97		28 0349 1.09 1006 0.53 TU 1429 0.94 2203 0.16	
5 0157 0.23 0832 1.05 SU 1436 0.49 ● 1944 0.95		13 0320 0.96 0926 0.55 MO 1419 0.89 ● 2127 0.25		21 0224 0.24 0900 1.03 TU 1503 0.49 2031 0.95		29 0443 1.12 1101 0.52 WE 1512 0.95 2250 0.17	
6 0235 0.26 0912 1.01 MO 1515 0.50 2027 0.91		14 0409 1.03 1015 0.54 TU 1507 0.91 2212 0.21		22 0307 0.28 0945 1.01 WE 1559 0.45 2138 0.92		30 0531 1.13 1149 0.51 TH 1558 0.96 2332 0.19	
7 0313 0.30 0950 0.97 TU 1557 0.51 2113 0.86		15 0453 1.08 1058 0.54 WE 1551 0.94 2255 0.18		23 0355 0.34 1030 0.99 TH 1658 0.40 2255 0.91			
8 0351 0.35 1030 0.94 WE 1643 0.50 2209 0.81		16 0534 1.11 1136 0.54 TH 1635 0.96 2338 0.17		24 0449 0.41 1118 0.97 FR 1801 0.34			

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

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER – 2023

Time	m	Time	m	Time	m	Time	m
1 0615 1.12 1231 0.50 FR 1647 0.96		9 0430 0.50 1053 0.94 SA 1750 0.35		17 0005 0.15 0642 1.10 SU 1251 0.51 1745 0.97		25 0116 0.97 0651 0.60 MO 1205 0.95 1941 0.19	
2 0012 0.20 0654 1.10 SA 1310 0.49 1738 0.95		10 0016 0.84 0522 0.57 SU 1130 0.93 1846 0.31		18 0049 0.17 0723 1.09 MO 1337 0.47 1842 0.97		26 0227 1.01 0828 0.61 TU 1251 0.93 2038 0.18	
3 0050 0.22 0731 1.08 SU 1346 0.48 1829 0.93		11 0138 0.88 0634 0.63 MO 1213 0.91 1945 0.26		19 0132 0.21 0803 1.08 TU 1422 0.43 1943 0.96		27 0330 1.05 0942 0.59 WE 1343 0.92 ○ 2132 0.18	
4 0129 0.25 0807 1.05 MO 1423 0.47 1919 0.90		12 0246 0.95 0815 0.65 TU 1303 0.91 2043 0.21		20 0213 0.26 0844 1.06 WE 1508 0.38 ● 2046 0.95		28 0427 1.07 1044 0.55 TH 1435 0.92 2223 0.19	
5 0206 0.28 0842 1.03 TU 1500 0.47 ● 2011 0.87		13 0342 1.02 0930 0.63 WE 1403 0.91 ● 2136 0.17		21 0255 0.32 0923 1.05 TH 1556 0.33 2151 0.94		29 0515 1.08 1134 0.52 FR 1527 0.91 2310 0.20	
6 0242 0.33 0915 1.00 WE 1537 0.45 2103 0.84		14 0430 1.06 1026 0.61 TH 1504 0.93 2228 0.15		22 0338 0.39 1003 1.03 FR 1647 0.29 2256 0.94		30 0559 1.08 1217 0.49 SA 1620 0.91 2353 0.22	
7 0315 0.38 0947 0.98 TH 1617 0.43 2200 0.83		15 0515 1.09 1116 0.58 FR 1600 0.95 2317 0.15		23 0427 0.47 1044 1.01 SA 1743 0.25		31 0637 1.07 1256 0.47 SU 1716 0.90	
8 0350 0.44 1019 0.96 FR 1701 0.39 2302 0.82		16 0600 1.10 1204 0.55 SA 1653 0.97		24 0004 0.95 0526 0.55 SU 1125 0.98 1842 0.21			

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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 HM	Springs metres	Neaps metres
<i>Gabo Island</i>	<i>(0 43)</i>	<i>1.1</i>	<i>0.1</i>
<i>Eden (NSW)</i>	<i>(0 34)</i>	<i>1.8</i>	<i>0.2</i>
<i>Point Hicks</i>	<i>(0 27)</i>	<i>1.3</i>	<i>0.3</i>
Lakes Entrance (Outer)	0 00	1.1	0.7

EXTRA TIDES FOR LAKES ENTRANCE 2023

LAKES ENTRANCE							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
Feb	27	1701	0.71	Sep	7	0431	0.78
		1822	0.72			0552	0.80
Mar	28	1643	0.74	Oct	5	0456	0.78
		1719	0.73			0623	0.76
		1732	0.75			0356	0.75
Apr	26	1834	0.74	Nov	2	0448	0.75
		1454	0.76			0441	0.80
		1558	0.75			0549	0.79
May	25	1758	0.87	Dec	2	0415	0.77
		1850	0.87			0510	0.77
		1735	0.89			0326	0.79
May	26	1803	0.89		3	0447	0.80
		1641	0.90			0433	0.81
		1741	0.91		4	0506	0.81

Lakes Entrance (Outer) Datums

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

AHD metres	Predominantly diurnal tides	Chart Datum metres
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
0.000	Australian Height Datum	0.757
-0.43	Mean Lower Low Water (MLLW)	0.32
-0.757	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0434 1.03 1103 0.55 SU 1650 0.83 2221 0.51		9 0233 0.62 1001 1.17 MO 1636 0.31 2230 0.84		17 0401 1.04 1053 0.53 TU 1653 0.81 2211 0.49		25 0443 0.48 1115 1.23 WE 1744 0.18	
2 0530 1.07 1213 0.48 MO 1753 0.80 2303 0.55		10 0307 0.64 1032 1.14 TU 1712 0.33 2315 0.84		18 0505 1.11 1204 0.40 WE 1800 0.84 2301 0.49		26 0013 0.95 0545 0.51 TH 1202 1.12 1829 0.28	
3 0618 1.10 1306 0.41 TU 1842 0.80 2342 0.57		11 0346 0.66 1055 1.11 WE 1748 0.36		19 0606 1.18 1301 0.27 TH 1854 0.87 2353 0.49		27 0106 0.97 0646 0.54 FR 1250 1.00 1915 0.39	
4 0701 1.13 1349 0.36 WE 1921 0.80		12 0002 0.85 0437 0.69 TH 1112 1.07 1827 0.39		20 0701 1.25 1352 0.15 FR 1944 0.90		28 0200 0.98 0754 0.57 SA 1349 0.87 2000 0.49	
5 0018 0.58 0739 1.15 TH 1425 0.32 1957 0.81		13 0047 0.87 0606 0.71 FR 1138 1.02 1907 0.42		21 0046 0.47 0754 1.31 SA 1441 0.07 2034 0.92		29 0300 1.00 0919 0.57 SU 1514 0.78 2049 0.57	
6 0053 0.59 0815 1.17 FR 1457 0.30 2030 0.83		14 0131 0.90 0717 0.71 SA 1217 0.96 1950 0.44		22 0142 0.46 0845 1.35 SU 1528 0.03 2128 0.93		30 0405 1.02 1100 0.53 MO 1641 0.75 2141 0.61	
7 0127 0.60 0850 1.18 SA 1530 0.29 2107 0.84		15 0215 0.94 0823 0.69 SU 1315 0.89 2034 0.47		23 0240 0.46 0936 1.35 MO 1614 0.03 2222 0.94		31 0506 1.05 1218 0.47 TU 1744 0.75 2231 0.63	
8 0200 0.61 0926 1.18 SU 1602 0.30 2146 0.84		16 0304 0.99 0934 0.63 MO 1502 0.82 2122 0.49		24 0341 0.47 1027 1.31 TU 1659 0.09 2318 0.94			

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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

FEBRUARY – 2023

Time	m	Time	m	Time	m	Time	m
1 0556 1.08 1309 0.40 WE 1828 0.78 2318 0.62		9 0345 0.57 1015 1.07 TH 1706 0.35 2313 0.92		17 0553 1.19 1251 0.21 FR 1845 0.89 2345 0.50		25 0025 1.02 0632 0.48 SA 1233 0.89 1832 0.52	
2 0639 1.11 1344 0.35 TH 1902 0.81		10 0440 0.60 1034 1.03 FR 1739 0.40 2351 0.94		18 0646 1.26 1339 0.11 SA 1932 0.94		26 0112 1.01 0739 0.52 SU 1336 0.79 1917 0.61	
3 0001 0.60 0716 1.13 FR 1410 0.32 1935 0.83		11 0551 0.62 1107 0.97 SA 1815 0.45		19 0042 0.44 0738 1.30 SU 1423 0.05 2020 0.97		27 0205 1.00 0900 0.53 MO 1504 0.73 * 2007 0.68	
4 0042 0.57 0753 1.16 SA 1435 0.29 2008 0.85		12 0031 0.96 0658 0.62 SU 1153 0.90 1859 0.50		20 0137 0.40 0829 1.32 MO 1505 0.04 ● 2110 0.99		28 0318 1.00 1052 0.51 TU 1908 0.76 * 2104 0.71	
5 0120 0.55 0830 1.17 SU 1503 0.28 2043 0.87		13 0116 0.98 0802 0.60 MO 1303 0.82 1949 0.55		21 0232 0.37 0919 1.29 TU 1546 0.08 2200 1.00			
6 0157 0.54 0905 1.16 MO 1532 0.27 ○ 2119 0.87		14 0213 1.01 0912 0.55 TU 1517 0.77 ● 2045 0.58		22 0330 0.37 1008 1.22 WE 1628 0.16 2250 1.01			
7 0231 0.54 0938 1.15 TU 1603 0.29 2158 0.88		15 0331 1.05 1036 0.46 WE 1654 0.79 2145 0.58		23 0430 0.39 1057 1.12 TH 1709 0.27 2338 1.02			
8 0306 0.55 1002 1.11 WE 1634 0.31 2235 0.90		16 0450 1.11 1155 0.33 TH 1755 0.84 2245 0.55		24 0530 0.43 1144 1.00 FR 1750 0.40			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0430 1.02 WE 1204 0.46 1934 0.78 2204 0.70		9 0305 0.49 0924 1.05 TH 1549 0.36 2157 1.00		17 0433 1.13 1141 0.29 FR 1744 0.89 2235 0.60		25 0517 0.40 1129 0.90 SA 1707 0.56 2336 1.09	
2 0526 1.05 1245 0.41 TH 1816 0.81 2300 0.67		10 0350 0.50 0945 1.01 FR 1616 0.41 2228 1.02		18 0533 1.19 1231 0.20 SA 1830 0.95 2339 0.52		26 0616 0.44 1221 0.82 SU 1748 0.66	
3 0610 1.08 1313 0.37 FR 1844 0.84 2349 0.62		11 0445 0.51 1021 0.97 SA 1645 0.47 2303 1.04		19 0626 1.24 1315 0.14 SU 1916 1.00		27 0007 1.07 0717 0.49 MO 1323 0.77 * 1547 0.72	
4 0649 1.11 1336 0.34 SA 1914 0.87		12 0545 0.52 1109 0.91 SU 1717 0.54 2342 1.05		20 0037 0.43 0715 1.25 MO 1356 0.12 2004 1.04		28 0045 1.04 0827 0.51 TU 1819 0.80 * 1928 0.79	
5 0032 0.57 0727 1.13 SU 1400 0.31 1946 0.90		13 0646 0.52 1212 0.85 MO 1806 0.61		21 0131 0.37 0807 1.22 TU 1434 0.15 2051 1.07		29 0147 1.02 1010 0.51 WE 1850 0.83 ● 2029 0.80	
6 0112 0.52 0803 1.13 MO 1428 0.29 2020 0.92		14 0027 1.06 0748 0.50 TU 1345 0.79 1914 0.66		22 0227 0.33 0859 1.17 WE 1512 0.22 ● 2138 1.09		30 0330 1.02 1115 0.49 TH 1909 0.85 2134 0.78	
7 0149 0.50 0837 1.12 TU 1455 0.30 ○ 2054 0.94		15 0129 1.06 0858 0.46 WE 1533 0.79 ● 2020 0.68		23 0322 0.33 0950 1.08 TH 1550 0.32 2221 1.10		31 0442 1.04 1151 0.45 FR 1759 0.87 2240 0.73	
8 0227 0.49 0906 1.09 WE 1523 0.32 2126 0.97		16 0309 1.08 1027 0.39 TH 1651 0.84 2128 0.66		24 0420 0.36 1040 0.99 FR 1628 0.44 2301 1.10			

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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

APRIL - 2023

Time	m	Time	m	Time	m	Time	m
1 0530 1.07 1220 0.42 SA 1820 0.90 2335 0.66		9 0443 0.44 1030 0.93 SU 1550 0.58 2238 1.17		17 0600 1.19 1242 0.25 MO 1858 1.08		25 0649 0.49 1258 0.82 TU 1501 0.79	
2 0612 1.09 1246 0.38 SU 1850 0.94		10 0539 0.44 1130 0.89 MO 1629 0.65 2319 1.16		18 0035 0.46 0652 1.16 TU 1318 0.28 1945 1.13		26 0003 1.12 0745 0.52 WE 1415 0.83 * 1516 0.82	
3 0021 0.60 0650 1.10 MO 1315 0.36 1922 0.97		11 0637 0.43 1241 0.85 TU 1741 0.72		19 0130 0.40 0745 1.11 WE 1354 0.34 2031 1.16		27 0057 1.09 0845 0.54 TH 1819 0.89 1951 0.87	
4 0102 0.54 0725 1.09 TU 1342 0.36 1954 1.01		12 0008 1.15 0739 0.42 WE 1406 0.84 1900 0.76		20 0223 0.36 0839 1.04 TH 1429 0.42 ● 2114 1.19		28 0208 1.07 0950 0.53 FR 1826 0.90 ● 2056 0.84	
5 0141 0.50 0756 1.06 WE 1408 0.37 2024 1.05		13 0115 1.13 0848 0.40 TH 1531 0.87 ● 2008 0.76		21 0315 0.35 0930 0.97 FR 1503 0.52 2151 1.20		29 0333 1.07 1037 0.50 SA 1713 0.94 2209 0.80	
6 0220 0.47 0822 1.03 TH 1432 0.41 ○ 2053 1.09		14 0253 1.14 1012 0.35 FR 1634 0.92 2116 0.72		22 0409 0.37 1020 0.91 SA 1538 0.62 2223 1.19		30 0437 1.08 1114 0.48 SU 1743 0.97 2315 0.73	
7 0302 0.45 0855 1.00 FR 1456 0.45 2124 1.12		15 0409 1.16 1114 0.30 SA 1724 0.97 2228 0.64		23 0502 0.40 1109 0.86 SU 1610 0.71 2252 1.18			
8 0349 0.44 0939 0.97 SA 1521 0.51 2200 1.15		16 0508 1.19 1200 0.26 SU 1810 1.03 2335 0.55		24 0556 0.45 1200 0.83 MO 1444 0.76 2323 1.15			

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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0524 1.08 1145 0.45 MO 1815 1.01		9 0530 0.37 1137 0.92 TU 1628 0.75 2316 1.27		17 0036 0.51 0634 1.07 WE 1231 0.46 1924 1.21		25 0700 0.53 1316 0.90 TH 1534 0.88 *	
2 0004 0.66 0601 1.07 TU 1215 0.44 1845 1.06		10 0627 0.37 1247 0.92 WE 1745 0.79		18 0130 0.44 0728 1.01 TH 1305 0.53 2008 1.24		26 0024 1.16 0746 0.55 FR 1418 0.92 * 1909 0.90	
3 0046 0.59 0634 1.05 WE 1243 0.45 1915 1.11		11 0011 1.25 0728 0.37 TH 1400 0.93 1853 0.80		19 0219 0.41 0818 0.96 FR 1337 0.60 2047 1.26		27 0115 1.13 0833 0.55 SA 1516 0.95 2011 0.88	
4 0127 0.52 0709 1.03 TH 1308 0.48 1946 1.16		12 0117 1.22 0831 0.37 FR 1507 0.97 1957 0.79		20 0308 0.40 0906 0.92 SA 1407 0.67 ● 2122 1.26		28 0214 1.11 0919 0.54 SU 1602 0.99 ● 2120 0.85	
5 0207 0.47 0751 1.01 FR 1335 0.51 2022 1.21		13 0232 1.20 0938 0.37 SA 1603 1.01 ● 2104 0.74		21 0355 0.41 0951 0.90 SU 1419 0.73 2154 1.26		29 0316 1.08 1000 0.53 MO 1641 1.03 2238 0.79	
6 0252 0.43 0841 0.98 SA 1404 0.56 ○ 2101 1.25		14 0340 1.18 1033 0.37 SU 1655 1.06 2221 0.68		22 0442 0.43 1037 0.88 MO 1351 0.78 2225 1.24		30 0415 1.06 1037 0.52 TU 1715 1.08 2337 0.71	
7 0341 0.40 0934 0.96 SU 1439 0.62 2145 1.28		15 0441 1.16 1118 0.38 MO 1745 1.11 2336 0.59		23 0528 0.47 1126 0.88 TU 1414 0.81 2300 1.22		31 0507 1.04 1111 0.52 WE 1749 1.14	
8 0433 0.38 1032 0.94 MO 1523 0.69 2229 1.28		16 0538 1.12 1156 0.41 TU 1836 1.16		24 0614 0.51 1218 0.88 WE 1448 0.84 2340 1.19			

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LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2023

Time	m	Time	m	Time	m	Time	m
1 0024 0.63 0556 1.02 TH 1143 0.54 1829 1.19		9 0008 1.33 0707 0.34 FR 1337 1.01 1843 0.78		17 0215 0.44 0758 0.93 SA 1255 0.70 2023 1.29		25 0017 1.15 0739 0.56 SU 1402 0.99 1928 0.88	
2 0107 0.54 0645 1.01 FR 1216 0.56 1913 1.25		10 0106 1.27 0802 0.38 SA 1434 1.04 1945 0.77		18 0257 0.43 0838 0.92 SU 1326 0.73 ● 2057 1.30		26 0100 1.10 0820 0.56 MO 1445 1.03 ● 2034 0.86	
3 0152 0.46 0736 1.00 SA 1252 0.60 1959 1.31		11 0208 1.21 0856 0.42 SU 1530 1.08 ● 2055 0.74		19 0336 0.43 0918 0.92 MO 1351 0.76 2130 1.29		27 0159 1.05 0900 0.57 TU 1525 1.08 2148 0.81	
4 0239 0.39 0829 0.99 SU 1332 0.64 ○ 2045 1.35		12 0315 1.14 0945 0.47 MO 1624 1.12 2221 0.69		20 0415 0.45 1000 0.92 TU 1408 0.78 2204 1.28		28 0317 1.01 0940 0.58 WE 1609 1.13 2302 0.72	
5 0329 0.34 0925 0.98 MO 1421 0.69 2133 1.38		13 0424 1.07 1030 0.51 TU 1720 1.17 2340 0.62		21 0456 0.48 1046 0.92 WE 1439 0.81 2239 1.26		29 0438 0.98 1019 0.59 TH 1700 1.18	
6 0421 0.31 1025 0.97 TU 1521 0.73 2222 1.38		14 0528 1.02 1108 0.56 WE 1814 1.22		22 0536 0.50 1136 0.93 TH 1520 0.83 2313 1.23		30 0000 0.62 0540 0.98 FR 1100 0.60 1756 1.24	
7 0516 0.31 1129 0.97 WE 1631 0.76 2314 1.37		15 0039 0.54 0624 0.98 TH 1145 0.61 1902 1.25		23 0616 0.53 1228 0.94 FR 1609 0.86 2345 1.19			
8 0611 0.32 1234 0.99 TH 1739 0.78		16 0130 0.48 0714 0.95 FR 1221 0.66 1945 1.28		24 0658 0.54 1316 0.96 SA 1818 0.88			

Lakes Ent

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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

JULY - 2023

Time	m	Time	m	Time	m	Time	m
1 0048 0.51 0633 0.99 SA 1143 0.61 1849 1.31		9 0045 1.23 0727 0.42 SU 1401 1.08 1933 0.71		17 0241 0.43 0810 0.93 MO 1313 0.71 2033 1.29		25 0727 0.59 1343 1.05 TU 2001 0.80	
2 0137 0.40 0725 1.00 SU 1229 0.63 1941 1.36		10 0146 1.12 0815 0.50 MO 1457 1.11 ● 2048 0.71		18 0313 0.42 0846 0.93 TU 1349 0.71 ● 2107 1.28		26 0057 0.98 0810 0.61 WE 1428 1.08 ● 2111 0.76	
3 0226 0.32 0816 1.00 MO 1319 0.64 ○ 2030 1.41		11 0300 1.03 0901 0.57 TU 1557 1.15 2226 0.67		19 0346 0.43 0926 0.94 WE 1424 0.72 2140 1.27		27 0250 0.92 0854 0.63 TH 1523 1.12 2230 0.67	
4 0315 0.26 0911 1.00 TU 1415 0.66 2120 1.44		12 0418 0.96 0946 0.63 WE 1659 1.18 2345 0.60		20 0420 0.45 1009 0.94 TH 1456 0.73 2211 1.24		28 0428 0.91 0942 0.64 FR 1632 1.18 2340 0.56	
5 0406 0.24 1010 1.01 WE 1518 0.67 2211 1.43		13 0523 0.92 1030 0.67 TH 1754 1.22		21 0456 0.47 1055 0.95 FR 1530 0.75 2232 1.21		29 0531 0.93 1031 0.63 SA 1737 1.24	
6 0457 0.24 1111 1.02 TH 1623 0.68 2301 1.40		14 0045 0.53 0615 0.91 FR 1114 0.70 1842 1.25		22 0531 0.50 1140 0.96 SA 1610 0.78 2249 1.16		30 0034 0.43 0623 0.96 SU 1123 0.62 1832 1.32	
7 0547 0.28 1210 1.03 FR 1727 0.69 2352 1.33		15 0131 0.47 0658 0.91 SA 1154 0.71 1923 1.27		23 0608 0.53 1223 0.99 SU 1727 0.81 2315 1.11		31 0123 0.32 0712 0.99 MO 1217 0.59 1924 1.38	
8 0637 0.34 1307 1.06 SA 1830 0.70		16 0209 0.44 0734 0.92 SU 1234 0.71 2000 1.28		24 0646 0.56 1302 1.02 MO 1853 0.82 2356 1.05			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0211 0.23 0801 1.01 TU 1313 0.57 2013 1.42		9 0255 0.89 0823 0.67 WE 1530 1.12 2233 0.61		17 0313 0.40 0854 0.94 TH 1417 0.61 2112 1.21		25 0255 0.84 0817 0.68 FR 1445 1.09 2206 0.58	
2 0258 0.18 0854 1.02 WE 1409 0.55 ○ 2102 1.43		10 0418 0.85 0913 0.71 TH 1638 1.14 2356 0.55		18 0343 0.41 0932 0.95 FR 1451 0.62 2133 1.17		26 0425 0.86 0915 0.68 SA 1614 1.14 2326 0.46	
3 0345 0.17 0950 1.03 TH 1509 0.54 2152 1.40		11 0519 0.85 1002 0.73 FR 1735 1.17		19 0413 0.44 1011 0.97 SA 1526 0.64 2143 1.13		27 0523 0.90 1013 0.65 SU 1721 1.22	
4 0430 0.21 1047 1.04 FR 1611 0.55 2242 1.33		12 0049 0.49 0603 0.87 SA 1052 0.72 1821 1.20		20 0443 0.48 1048 0.99 SU 1611 0.67 2205 1.08		28 0020 0.34 0611 0.95 MO 1112 0.59 1815 1.29	
5 0516 0.28 1142 1.06 SA 1714 0.57 2332 1.23		13 0126 0.45 0639 0.89 SU 1139 0.70 1900 1.22		21 0514 0.53 1124 1.01 MO 1722 0.70 2239 1.03		29 0107 0.24 0657 0.98 TU 1210 0.52 1903 1.34	
6 0602 0.38 1234 1.08 SU 1816 0.60		14 0152 0.42 0711 0.91 MO 1223 0.66 1935 1.23		22 0548 0.58 1202 1.04 TU 1832 0.71 2326 0.96		30 0151 0.17 0745 1.01 WE 1305 0.46 1951 1.36	
7 0027 1.10 0649 0.49 MO 1327 1.09 1923 0.63		15 0216 0.40 0743 0.93 TU 1303 0.64 2009 1.24		23 0631 0.63 1244 1.05 WE 1937 0.70		31 0234 0.15 0835 1.03 TH 1401 0.42 ○ 2040 1.34	
8 0132 0.98 0735 0.59 TU 1423 1.11 ● 2044 0.64		16 0244 0.39 0817 0.94 WE 1342 0.62 ● 2042 1.23		24 0042 0.88 0722 0.66 TH 1333 1.07 ● 2045 0.65			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0315 0.17 0929 1.05 FR 1500 0.41 2130 1.28		9 0714 0.84 0940 0.76 SA 1711 1.10		17 0321 0.45 0926 1.01 SU 1531 0.53 2117 1.03		25 0508 0.90 1000 0.64 MO 1700 1.18 2359 0.28	
2 0358 0.25 1021 1.07 SA 1600 0.42 2222 1.18		10 0027 0.46 0548 0.86 SU 1036 0.72 1756 1.13		18 0343 0.50 0959 1.04 MO 1621 0.55 2153 0.98		26 0552 0.95 1103 0.55 TU 1752 1.23	
3 0441 0.35 1112 1.09 SU 1701 0.45 2315 1.07		11 0055 0.44 0615 0.89 MO 1128 0.66 1833 1.15		19 0403 0.55 1035 1.06 TU 1718 0.57 2241 0.93		27 0042 0.21 0638 1.00 WE 1203 0.46 1841 1.25	
4 0525 0.47 1200 1.09 MO 1804 0.49		12 0116 0.41 0645 0.91 TU 1214 0.61 1909 1.16		20 0430 0.61 1115 1.07 WE 1818 0.57 2345 0.87		28 0123 0.18 0725 1.03 TH 1300 0.38 1930 1.24	
5 0015 0.95 0611 0.58 TU 1247 1.09 1911 0.53		13 0140 0.39 0716 0.93 WE 1257 0.56 1943 1.16		21 0507 0.67 1158 1.07 TH 1920 0.56		29 0201 0.20 0815 1.07 FR 1357 0.33 ○ 2020 1.19	
6 0125 0.85 0658 0.68 WE 1340 1.07 2031 0.56		14 0206 0.38 0749 0.95 TH 1336 0.53 2014 1.14		22 0117 0.82 0644 0.72 FR 1252 1.06 2026 0.53		30 0240 0.26 0905 1.09 SA 1454 0.31 2114 1.11	
7 0254 0.80 0749 0.74 TH 1452 1.06 * ○ 2236 0.54		15 0232 0.39 0823 0.96 FR 1414 0.52 ● 2040 1.11		23 0300 0.82 0752 0.72 SA 1415 1.07 ● 2148 0.47			
8 0641 0.83 0844 0.77 FR 1612 1.07 2345 0.50		16 0259 0.41 0856 0.99 SA 1451 0.52 2056 1.07		24 0417 0.86 0857 0.70 SU 1552 1.11 2308 0.37			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0318 0.36 0953 1.11 SU 1552 0.32 2208 1.02		9 0522 0.87 1019 0.71 MO 1719 1.06		17 0242 0.55 0932 1.10 TU 1618 0.43 2205 0.90		25 0529 0.99 1057 0.53 WE 1727 1.13	
2 0359 0.47 1038 1.12 MO 1651 0.35 2303 0.92		10 0003 0.44 0547 0.90 TU 1117 0.65 1800 1.07		18 0306 0.60 1014 1.11 WE 1711 0.43 2301 0.86		26 0006 0.25 0615 1.04 TH 1201 0.43 1821 1.12	
3 0443 0.58 1119 1.11 TU 1750 0.40		11 0028 0.42 0616 0.93 WE 1207 0.58 1837 1.08		19 0334 0.66 1056 1.11 TH 1806 0.44		27 0044 0.27 0704 1.08 FR 1301 0.35 1915 1.08	
4 0003 0.84 0530 0.68 WE 1159 1.09 1851 0.45		12 0054 0.40 0648 0.95 TH 1251 0.53 1912 1.07		20 0009 0.83 0417 0.72 FR 1142 1.10 1905 0.43		28 0119 0.32 0754 1.12 SA 1357 0.29 2010 1.02	
5 0114 0.79 0317 0.76 TH 1242 1.06 * 2002 0.49		13 0119 0.40 0719 0.98 FR 1330 0.48 1944 1.04		21 0130 0.82 0630 0.75 SA 1238 1.09 2009 0.41		29 0155 0.40 0842 1.15 SU 1451 0.26 ○ 2102 0.96	
6 0544 0.83 0718 0.79 FR 1343 1.03 ● 2201 0.50		14 0143 0.42 0750 1.01 SA 1410 0.45 2012 1.01		22 0252 0.84 0738 0.74 SU 1355 1.08 ● 2123 0.37		30 0230 0.49 0926 1.16 MO 1545 0.27 2154 0.89	
7 0619 0.85 0815 0.79 SA 1520 1.02 2301 0.49		15 0203 0.45 0820 1.04 SU 1449 0.44 ● 2041 0.97		23 0356 0.89 0843 0.69 MO 1521 1.10 2235 0.32		31 0309 0.59 1006 1.16 TU 1638 0.29 2246 0.84	
8 0642 0.85 0916 0.76 SU 1630 1.03 2337 0.47		16 0222 0.49 0854 1.08 MO 1531 0.43 2118 0.93		24 0444 0.94 0948 0.62 TU 1629 1.12 2325 0.27			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0352 0.67 1044 1.15 WE 1731 0.34 2342 0.80		9 0542 0.96 1157 0.59 TH 1800 0.98 2357 0.43		17 0336 0.69 1052 1.18 FR 1754 0.31		25 0646 1.13 1307 0.34 SA 1909 0.94	
2 0222 0.73 1120 1.11 TH 1825 0.40 *		10 0614 1.00 1241 0.53 FR 1839 0.97		18 0009 0.85 0509 0.72 SA 1139 1.16 1849 0.31		26 0035 0.44 0736 1.17 SU 1400 0.28 2000 0.89	
3 0046 0.79 0235 0.77 FR 1200 1.08 * 1919 0.45		11 0022 0.44 0645 1.04 SA 1321 0.46 1915 0.94		19 0120 0.86 0622 0.73 SU 1231 1.14 1947 0.32		27 0111 0.51 0822 1.19 MO 1450 0.24 ○ 2048 0.86	
4 0517 0.83 0647 0.81 SA 1247 1.04 2020 0.48		12 0045 0.47 0718 1.08 SU 1400 0.41 1951 0.92		20 0227 0.89 0726 0.71 MO 1334 1.11 ● 2048 0.32		28 0146 0.58 0904 1.20 TU 1537 0.24 2134 0.83	
5 0546 0.85 0745 0.80 SU 1350 1.01 ● 2130 0.49		13 0109 0.50 0757 1.12 MO 1440 0.36 ● 2030 0.90		21 0325 0.93 0830 0.67 TU 1445 1.08 2148 0.32		29 0221 0.64 0943 1.20 WE 1623 0.26 2220 0.82	
6 0417 0.86 0845 0.77 MO 1513 1.00 2221 0.47		14 0134 0.54 0839 1.15 TU 1523 0.33 2115 0.88		22 0415 0.98 0939 0.61 WE 1557 1.05 2239 0.32		30 0253 0.69 1018 1.18 TH 1708 0.31 2308 0.80	
7 0440 0.89 0954 0.73 TU 1623 1.00 2258 0.45		15 0203 0.59 0922 1.17 WE 1610 0.31 2206 0.87		23 0504 1.03 1058 0.52 TH 1707 1.01 2321 0.35			
8 0510 0.92 1104 0.66 WE 1715 0.99 2329 0.44		16 0241 0.64 1007 1.18 TH 1700 0.31 2303 0.85		24 0555 1.09 1208 0.43 FR 1812 0.97 2359 0.39			

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LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0209 0.73 1055 1.15 FR 1752 0.36		9 0532 1.03 1224 0.54 SA 1809 0.87 2326 0.49		17 0504 0.65 1131 1.23 SU 1828 0.22		25 0002 0.53 0722 1.19 MO 1405 0.27 1948 0.83	
2 0001 0.80 0239 0.76 SA 1131 1.11 * 1837 0.40		10 0612 1.08 1305 0.45 SU 1853 0.87 2358 0.50		18 0057 0.90 0610 0.65 MO 1219 1.17 1919 0.26		26 0042 0.57 0806 1.21 TU 1447 0.24 2030 0.83	
3 0101 0.81 0610 0.78 SU 1210 1.07 * 1922 0.44		11 0655 1.13 1345 0.37 MO 1934 0.87		19 0155 0.93 0713 0.64 TU 1311 1.10 2012 0.31		27 0122 0.59 0846 1.22 WE 1526 0.23 ○ 2109 0.82	
4 0204 0.83 0705 0.78 MO 1253 1.03 * 2008 0.46		12 0032 0.53 0741 1.18 TU 1428 0.29 2017 0.87		20 0251 0.97 0817 0.62 WE 1414 1.01 ● 2103 0.36		28 0202 0.62 0923 1.21 TH 1603 0.25 2148 0.82	
5 0258 0.87 0803 0.77 TU 1344 0.98 ● 2055 0.47		13 0110 0.55 0827 1.22 WE 1512 0.24 ● 2104 0.87		21 0346 1.02 0935 0.58 TH 1538 0.93 2152 0.41		29 0244 0.64 0958 1.19 FR 1640 0.28 2231 0.82	
6 0342 0.90 0911 0.75 WE 1449 0.94 2139 0.47		14 0154 0.58 0914 1.25 TH 1559 0.20 2156 0.87		22 0444 1.07 1106 0.51 FR 1702 0.88 2238 0.45		30 0325 0.67 1031 1.16 SA 1717 0.32 2317 0.83	
7 0420 0.94 1035 0.70 TH 1612 0.91 2219 0.47		15 0247 0.61 1000 1.26 FR 1647 0.18 2253 0.87		23 0540 1.12 1218 0.42 SA 1809 0.85 2321 0.50		31 0413 0.69 1103 1.13 SU 1755 0.36	
8 0457 0.99 1138 0.62 FR 1719 0.89 2254 0.47		16 0354 0.64 1045 1.26 SA 1737 0.19 2355 0.88		24 0633 1.16 1316 0.33 SU 1902 0.84			

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Melbourne (Williamstown)

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

Location	Time diff (earlier) later HM	Rise of tide			
		MHHW metres	MLHW metres	MHLW metres	MLLW metres
<i>Port Phillip Heads</i>	<i>(3 20)</i>	<i>1.5</i>	<i>1.3</i>	<i>0.6</i>	<i>0.4</i>
<i>Dromana</i>	<i>(0 05)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Mornington</i>	<i>(0 05)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Portarlington</i>	<i>(0 05)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Werribee River Entrance</i>	<i>(0 05)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Point Cook</i>	<i>(0 05)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Frankston Pier</i>	<i>(0 03)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
<i>Mordialloc Pier</i>	<i>(0 03)</i>	<i>1.0</i>	<i>0.6</i>	<i>0.5</i>	<i>0.2</i>
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
Williamstown	0 00	1.0	0.6	0.5	0.2
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 - 2020)	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
0.000	Australian Height Datum	0.524
-0.26	Mean Lower Low Water (MLLW)	0.26
- 0.484	Lowest Astronomical Tide (LAT) & Prediction Datum	0.04
-0.524	Chart Datum	0.000
-0.76	Lowest recorded tide 02/12/1966 (1966-2020)	-0.24

Melbourne

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

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2023

Time	m	Time	m	Time	m	Time	m
1 0302 0.37 SU 0919 0.93 1613 0.29 2215 0.81		9 0515 0.92 1114 0.49 MO 1552 0.80 2255 0.20		17 0254 0.42 0905 0.91 TU 1600 0.27 2217 0.79		25 0548 0.91 1155 0.41 WE 1714 0.88 2359 0.19	
2 0349 0.43 0959 0.91 MO 1707 0.26 2330 0.81		10 0550 0.92 1150 0.47 TU 1643 0.80 2333 0.21		18 0341 0.49 0940 0.90 WE 1651 0.24 2330 0.79		26 0625 0.92 1243 0.35 TH 1814 0.89	
3 0445 0.50 1042 0.89 TU 1801 0.24		11 0621 0.91 1224 0.44 WE 1730 0.80		19 0437 0.56 1024 0.89 TH 1750 0.21		27 0044 0.23 0700 0.93 FR 1329 0.30 1909 0.88	
4 0045 0.83 0556 0.55 WE 1129 0.86 1856 0.23		12 0008 0.23 0648 0.91 TH 1256 0.42 1815 0.80		20 0101 0.80 0549 0.61 FR 1121 0.87 1858 0.18		28 0126 0.28 0735 0.94 SA 1414 0.26 2003 0.87	
5 0153 0.85 0719 0.58 TH 1219 0.83 1948 0.21		13 0039 0.25 0714 0.91 FR 1328 0.40 1858 0.80		21 0227 0.83 0715 0.63 SA 1230 0.85 2006 0.16		29 0206 0.33 0810 0.94 SU 1459 0.24 2058 0.85	
6 0255 0.88 0843 0.58 FR 1313 0.81 2040 0.20		14 0108 0.28 0740 0.91 SA 1401 0.37 1943 0.80		22 0334 0.86 0843 0.60 SU 1339 0.85 2113 0.14		30 0245 0.39 0846 0.93 MO 1542 0.23 2157 0.84	
7 0348 0.91 0945 0.55 SA 1406 0.80 2129 0.19		15 0139 0.32 0806 0.91 SU 1437 0.34 2029 0.80		23 0427 0.88 1005 0.55 MO 1447 0.85 2215 0.14		31 0327 0.44 0922 0.91 TU 1627 0.23 2300 0.82	
8 0435 0.92 1033 0.52 SU 1459 0.79 2214 0.19		16 0214 0.37 0834 0.91 MO 1516 0.30 2119 0.80		24 0510 0.90 1104 0.48 TU 1603 0.86 2310 0.15			

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Datum is Lowest Astronomical Tide

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

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

FEBRUARY – 2023

Time	m	Time	m	Time	m	Time	m
1 0412 0.49 1000 0.88 WE 1714 0.23		9 0547 0.87 1200 0.38 TH 1728 0.80 2354 0.26		17 0408 0.55 0948 0.89 FR 1716 0.19		25 0031 0.29 0625 0.92 SA 1305 0.23 1900 0.91	
2 0009 0.81 0504 0.54 TH 1044 0.85 1805 0.23		10 0613 0.88 1232 0.35 FR 1810 0.82		18 0027 0.78 0514 0.58 SA 1050 0.86 1826 0.19		26 0112 0.33 0700 0.93 SU 1346 0.21 1950 0.91	
3 0116 0.82 0616 0.58 FR 1134 0.80 1903 0.23		11 0024 0.29 0638 0.89 SA 1305 0.32 1851 0.83		19 0149 0.78 0641 0.59 SU 1208 0.83 1940 0.18		27 0149 0.37 0736 0.93 MO 1426 0.21 2040 0.90	
4 0221 0.82 0749 0.58 SA 1232 0.77 2002 0.22		12 0054 0.33 0703 0.90 SU 1339 0.30 1932 0.85		20 0257 0.80 0815 0.55 MO 1327 0.82 2055 0.18		28 0227 0.41 0811 0.93 TU 1504 0.21 2130 0.87	
5 0318 0.84 0915 0.55 SU 1335 0.75 2101 0.22		13 0124 0.36 0730 0.91 MO 1415 0.27 2016 0.85		21 0350 0.83 0947 0.47 TU 1452 0.83 2204 0.19			
6 0406 0.85 1010 0.50 MO 1442 0.74 2155 0.21		14 0158 0.41 0758 0.91 TU 1452 0.25 2103 0.84		22 0434 0.85 1047 0.39 WE 1613 0.86 2300 0.21			
7 0445 0.86 1052 0.46 TU 1549 0.76 2241 0.22		15 0235 0.45 0828 0.91 WE 1532 0.23 2156 0.82		23 0513 0.88 1137 0.31 TH 1715 0.89 2348 0.25			
8 0518 0.86 1128 0.42 WE 1643 0.77 2320 0.24		16 0317 0.50 0903 0.91 TH 1619 0.21 2301 0.80		24 0549 0.90 1222 0.26 FR 1809 0.91			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0303 0.45 0845 0.90 WE 1543 0.22 2223 0.85		9 0434 0.83 1053 0.36 TH 1635 0.80 2303 0.31		17 0304 0.53 0837 0.90 FR 1552 0.21 2239 0.82		25 0510 0.90 1154 0.22 SA 1800 0.96	
2 0342 0.49 0922 0.87 TH 1624 0.23 2320 0.82		10 0502 0.84 1127 0.32 FR 1718 0.84 2339 0.34		18 0353 0.54 0930 0.88 SA 1646 0.22 2349 0.80		26 0015 0.39 0546 0.92 SU 1233 0.21 1848 0.97	
3 0426 0.52 1003 0.83 FR 1712 0.25		11 0529 0.86 1200 0.29 SA 1800 0.87		19 0500 0.55 1041 0.84 SU 1755 0.24		27 0053 0.41 0622 0.93 MO 1312 0.21 1933 0.96	
4 0026 0.80 0522 0.55 SA 1055 0.78 1811 0.26		12 0012 0.37 0556 0.88 SU 1235 0.27 1840 0.90		20 0101 0.79 0627 0.53 MO 1204 0.81 1914 0.26		28 0130 0.44 0659 0.93 TU 1348 0.22 2017 0.95	
5 0133 0.79 0653 0.56 SU 1200 0.73 1922 0.27		13 0044 0.40 0623 0.89 MO 1312 0.25 1921 0.91		21 0208 0.80 0803 0.47 TU 1336 0.81 2038 0.28		29 0204 0.46 0733 0.92 WE 1425 0.23 2101 0.92	
6 0234 0.79 0833 0.52 MO 1315 0.71 2031 0.27		14 0115 0.43 0652 0.91 TU 1348 0.24 2004 0.90		22 0304 0.82 0928 0.38 WE 1507 0.84 2152 0.30		30 0240 0.48 0809 0.89 TH 1501 0.24 2145 0.89	
7 0323 0.80 0934 0.47 TU 1438 0.72 2132 0.28		15 0148 0.47 0723 0.91 WE 1427 0.23 2050 0.88		23 0351 0.85 1025 0.30 TH 1615 0.89 2247 0.32		31 0315 0.50 0845 0.86 FR 1539 0.26 2231 0.85	
8 0401 0.81 1017 0.41 WE 1545 0.75 2222 0.29		16 0224 0.50 0757 0.91 TH 1507 0.22 2140 0.85		24 0431 0.87 1112 0.25 FR 1711 0.93 2334 0.36			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0356 0.52 0927 0.81 SA 1621 0.28 2323 0.82		9 0437 0.87 1124 0.26 SU 1748 0.96 2356 0.48		17 0502 0.51 1048 0.83 MO 1726 0.33		25 0032 0.50 0543 0.94 TU 1235 0.24 1915 1.01	
2 0446 0.54 1021 0.76 SU 1713 0.32		10 0509 0.90 1203 0.24 MO 1830 0.97		18 0012 0.85 0629 0.46 TU 1218 0.82 1847 0.38		26 0108 0.51 0619 0.93 WE 1311 0.25 1955 1.00	
3 0022 0.80 0602 0.53 MO 1135 0.72 1823 0.36		11 0031 0.50 0542 0.91 TU 1243 0.24 1914 0.97		19 0114 0.85 0754 0.39 WE 1354 0.85 2019 0.42		27 0143 0.51 0657 0.91 TH 1347 0.27 2033 0.97	
4 0123 0.79 0740 0.49 TU 1302 0.71 1947 0.38		12 0106 0.52 0616 0.92 WE 1323 0.24 1958 0.96		20 0213 0.86 0902 0.31 TH 1510 0.90 ● 2134 0.44		28 0216 0.52 0733 0.89 FR 1423 0.29 ● 2110 0.94	
5 0216 0.80 0843 0.43 WE 1429 0.75 2100 0.40		13 0142 0.53 0654 0.93 TH 1403 0.24 ● 2042 0.93		21 0303 0.88 0956 0.25 FR 1611 0.96 2230 0.46		29 0253 0.53 0813 0.85 SA 1500 0.31 2147 0.91	
6 0259 0.81 0929 0.37 TH 1531 0.80 ○ 2155 0.42		14 0219 0.54 0736 0.92 FR 1445 0.24 2129 0.90		22 0347 0.90 1041 0.23 SA 1704 1.00 2315 0.48		30 0332 0.54 0859 0.81 SU 1538 0.34 2229 0.88	
7 0334 0.83 1009 0.32 FR 1621 0.87 2240 0.44		15 0301 0.55 0826 0.90 SA 1530 0.26 2218 0.87		23 0427 0.91 1121 0.22 SU 1751 1.02 2355 0.49			
8 0406 0.85 1046 0.28 SA 1705 0.92 2319 0.46		16 0354 0.54 0930 0.86 SU 1621 0.29 2313 0.85		24 0505 0.93 1159 0.23 MO 1834 1.02			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0420 0.53 0958 0.77 MO 1621 0.39 2314 0.86		9 0425 0.93 1133 0.24 TU 1825 1.03		17 0626 0.39 1234 0.86 WE 1821 0.51		25 0048 0.56 0545 0.93 TH 1238 0.29 1931 1.02	
2 0523 0.51 1116 0.74 TU 1715 0.45		10 0015 0.58 0506 0.95 WE 1217 0.24 1909 1.02		18 0023 0.92 0733 0.33 TH 1357 0.91 1953 0.55		26 0123 0.55 0625 0.90 FR 1315 0.31 2004 1.00	
3 0003 0.85 0643 0.46 WE 1245 0.76 1832 0.51		11 0055 0.58 0550 0.95 TH 1300 0.25 1950 1.00		19 0118 0.92 0831 0.28 FR 1505 0.97 2111 0.57		27 0158 0.55 0707 0.88 SA 1348 0.33 2035 0.98	
4 0053 0.85 0745 0.40 TH 1407 0.81 2004 0.54		12 0134 0.57 0638 0.94 FR 1344 0.27 2031 0.98		20 0211 0.92 0922 0.25 SA 1603 1.01 ● 2208 0.57		28 0232 0.54 0752 0.84 SU 1423 0.36 ● 2107 0.96	
5 0141 0.85 0834 0.34 FR 1513 0.88 2117 0.56		13 0217 0.56 0732 0.92 SA 1426 0.29 ● 2111 0.96		21 0259 0.92 1006 0.24 SU 1654 1.04 2254 0.57		29 0311 0.53 0844 0.81 MO 1458 0.40 2140 0.95	
6 0224 0.87 0920 0.29 SA 1606 0.94 ○ 2212 0.57		14 0305 0.54 0835 0.89 SU 1510 0.33 2153 0.94		22 0342 0.93 1046 0.25 MO 1738 1.05 2335 0.57		30 0356 0.50 0943 0.79 TU 1537 0.45 2215 0.93	
7 0305 0.89 1004 0.26 SU 1655 1.00 2256 0.58		15 0400 0.50 0945 0.86 MO 1600 0.38 2238 0.93		23 0423 0.94 1124 0.26 TU 1818 1.05		31 0448 0.46 1055 0.79 WE 1627 0.52 2256 0.92	
8 0345 0.91 1049 0.24 MO 1741 1.02 2337 0.58		16 0510 0.45 1103 0.85 TU 1701 0.45 2329 0.93		24 0012 0.56 0503 0.94 WE 1201 0.27 1856 1.04			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0549 0.42 1217 0.81 TH 1730 0.59 2342 0.91		9 0043 0.59 0538 0.96 FR 1243 0.26 1933 1.03		17 0030 0.94 0757 0.27 SA 1450 0.98 2040 0.65		25 0139 0.53 0655 0.86 SU 1318 0.36 2000 0.99	
2 0650 0.36 1339 0.86 FR 1850 0.65		10 0128 0.56 0639 0.94 SA 1327 0.30 2009 1.01		18 0122 0.93 0846 0.26 SU 1547 1.02 ● 2144 0.64		26 0213 0.51 0742 0.84 MO 1350 0.39 ● 2027 0.99	
3 0032 0.91 0745 0.31 SA 1451 0.93 2018 0.67		11 0215 0.52 0742 0.92 SU 1410 0.34 ● 2045 1.01		19 0214 0.92 0933 0.26 MO 1637 1.04 2234 0.62		27 0249 0.48 0831 0.83 TU 1424 0.43 2055 0.99	
4 0124 0.91 0837 0.27 SU 1551 0.99 ○ 2133 0.67		12 0306 0.48 0845 0.90 MO 1454 0.40 2124 1.00		20 0301 0.91 1016 0.26 TU 1721 1.04 2316 0.60		28 0330 0.44 0926 0.83 WE 1502 0.49 2126 0.98	
5 0214 0.93 0929 0.24 MO 1645 1.03 2229 0.66		13 0402 0.43 0953 0.88 TU 1542 0.46 2204 0.99		21 0349 0.91 1057 0.27 WE 1759 1.03 2355 0.58		29 0415 0.40 1028 0.83 TH 1548 0.56 2200 0.97	
6 0303 0.94 1019 0.23 TU 1732 1.05 2315 0.64		14 0504 0.38 1111 0.88 WE 1638 0.53 2248 0.98		22 0436 0.91 1135 0.29 TH 1833 1.02		30 0506 0.36 1143 0.85 FR 1645 0.63 2241 0.95	
7 0352 0.96 1110 0.23 WE 1815 1.05		15 0606 0.33 1233 0.90 TH 1750 0.60 2338 0.96		23 0031 0.56 0523 0.89 FR 1212 0.31 1905 1.01			
8 0000 0.62 0443 0.97 TH 1157 0.24 1856 1.04		16 0703 0.29 1345 0.94 FR 1915 0.64		24 0105 0.55 0609 0.88 SA 1246 0.33 1933 1.00			

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2023

Time	m	Time	m	Time	m	Time	m
1 0603 0.32 1306 0.88 SA 1756 0.69 2331 0.94		9 0119 0.47 0645 0.94 SU 1313 0.32 1940 1.02		17 0043 0.90 0812 0.26 MO 1524 0.96 2118 0.65		25 0148 0.43 0730 0.85 TU 1323 0.41 1947 0.98	
2 0703 0.27 1426 0.92 SU 1917 0.72		10 0207 0.42 0745 0.93 MO 1356 0.38 ● 2015 1.02		18 0138 0.87 0904 0.26 TU 1615 0.98 ● 2215 0.61		26 0223 0.40 0816 0.85 WE 1357 0.45 ● 2014 0.99	
3 0032 0.93 0802 0.24 MO 1533 0.97 ○ 2042 0.71		11 0257 0.38 0845 0.91 TU 1440 0.44 2052 1.02		19 0234 0.86 0953 0.26 WE 1657 0.98 2259 0.57		27 0300 0.37 0905 0.85 TH 1435 0.50 2043 0.98	
4 0133 0.93 0900 0.22 TU 1628 1.00 2157 0.68		12 0347 0.34 0949 0.90 WE 1525 0.50 2130 1.01		20 0332 0.85 1037 0.27 TH 1733 0.98 2338 0.54		28 0343 0.33 1000 0.85 FR 1518 0.56 2115 0.98	
5 0232 0.94 0957 0.21 WE 1714 1.01 2254 0.64		13 0440 0.31 1102 0.89 TH 1615 0.57 2212 0.99		21 0429 0.85 1116 0.29 FR 1804 0.97		29 0429 0.30 1107 0.85 SA 1608 0.62 2153 0.96	
6 0331 0.95 1051 0.22 TH 1754 1.02 2344 0.58		14 0533 0.29 1215 0.90 FR 1715 0.62 2257 0.96		22 0013 0.51 0518 0.85 SA 1152 0.31 1832 0.97		30 0523 0.27 1230 0.85 SU 1711 0.67 2245 0.94	
7 0434 0.95 1142 0.24 FR 1830 1.02		15 0627 0.28 1322 0.92 SA 1830 0.66 2347 0.93		23 0045 0.49 0603 0.85 SU 1224 0.34 1858 0.97		31 0627 0.24 1353 0.87 MO 1830 0.70 2352 0.92	
8 0031 0.53 0543 0.95 SA 1229 0.27 1905 1.02		16 0719 0.27 1426 0.94 SU 1958 0.67		24 0116 0.46 0647 0.85 MO 1253 0.37 1922 0.98			

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MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

AUGUST – 2023

Time	m	Time	m	Time	m	Time	m
1 0732 0.21 1503 0.90 TU 1958 0.68		9 0233 0.28 0834 0.92 WE 1424 0.45 2019 1.01		17 0226 0.79 0933 0.26 TH 1624 0.90 2236 0.51		25 0230 0.30 0844 0.87 FR 1414 0.51 2003 0.96	
2 0105 0.91 0836 0.20 WE 1558 0.92 ○ 2125 0.63		10 0318 0.27 0934 0.90 TH 1505 0.50 2056 0.99		18 0335 0.80 1021 0.27 FR 1659 0.90 2312 0.46		26 0311 0.27 0934 0.85 SA 1453 0.55 2036 0.95	
3 0215 0.91 0939 0.20 TH 1643 0.94 2233 0.56		11 0403 0.27 1038 0.88 FR 1548 0.55 2135 0.96		19 0429 0.81 1101 0.30 SA 1727 0.91 2345 0.42		27 0355 0.25 1035 0.83 SU 1539 0.59 2116 0.94	
4 0328 0.91 1037 0.21 FR 1721 0.96 2327 0.48		12 0450 0.27 1144 0.87 SA 1637 0.59 2217 0.92		20 0514 0.83 1137 0.33 SU 1753 0.92		28 0447 0.24 1152 0.81 MO 1637 0.62 2214 0.91	
5 0442 0.93 1130 0.25 SA 1757 0.97		13 0542 0.27 1248 0.87 SU 1740 0.62 2309 0.88		21 0015 0.39 0554 0.85 MO 1207 0.36 1817 0.93		29 0552 0.22 1311 0.81 TU 1758 0.63 2330 0.87	
6 0015 0.41 0545 0.94 SU 1216 0.29 1831 0.99		14 0639 0.27 1352 0.87 MO 1908 0.63		22 0046 0.37 0634 0.87 TU 1235 0.39 1842 0.94		30 0703 0.21 1419 0.83 WE 1929 0.59	
7 0102 0.35 0643 0.94 MO 1300 0.35 1907 1.00		15 0009 0.83 0738 0.26 TU 1452 0.88 2049 0.61		23 0119 0.34 0715 0.88 WE 1305 0.43 1908 0.95		31 0053 0.86 0815 0.21 TH 1515 0.85 ○ 2101 0.52	
8 0148 0.31 0738 0.93 TU 1343 0.40 ● 1943 1.01		16 0114 0.80 0838 0.26 WE 1543 0.89 ● 2151 0.56		24 0154 0.32 0758 0.88 TH 1337 0.46 ● 1935 0.96			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0215 0.86 0924 0.23 FR 1601 0.88 2213 0.43		9 0322 0.25 1003 0.87 SA 1522 0.52 2100 0.91		17 0420 0.82 1045 0.34 SU 1640 0.86 2307 0.33		25 0324 0.23 1009 0.82 MO 1522 0.55 2056 0.89	
2 0339 0.89 1027 0.25 SA 1641 0.90 2306 0.35		10 0404 0.26 1100 0.84 SU 1604 0.55 2142 0.87		18 0502 0.86 1120 0.37 MO 1706 0.88 2339 0.30		26 0415 0.23 1113 0.80 TU 1622 0.55 2203 0.86	
3 0445 0.92 1118 0.29 SU 1718 0.93 2353 0.29		11 0452 0.27 1201 0.82 MO 1658 0.57 2235 0.81		19 0541 0.89 1152 0.40 TU 1732 0.90		27 0519 0.24 1220 0.79 WE 1744 0.53 2328 0.83	
4 0541 0.94 1204 0.34 MO 1755 0.95		12 0550 0.28 1306 0.81 TU 1823 0.58 2343 0.76		20 0012 0.28 0620 0.91 WE 1222 0.43 1800 0.91		28 0635 0.26 1325 0.80 TH 1915 0.48	
5 0037 0.25 0633 0.95 TU 1246 0.38 1831 0.97		13 0700 0.29 1407 0.81 WE 2010 0.54		21 0047 0.27 0700 0.91 TH 1253 0.46 1829 0.92		29 0100 0.82 0754 0.28 FR 1424 0.82 ○ 2043 0.39	
6 0119 0.23 0725 0.94 WE 1326 0.42 1908 0.98		14 0102 0.74 0810 0.30 TH 1458 0.82 2116 0.49		22 0124 0.26 0742 0.90 FR 1325 0.48 1859 0.93		30 0231 0.86 0912 0.31 SA 1514 0.85 2148 0.31	
7 0201 0.23 0816 0.93 TH 1404 0.45 ● 1945 0.97		15 0229 0.75 0913 0.31 FR 1539 0.83 ● 2200 0.43		23 0201 0.25 0826 0.88 SA 1359 0.51 ● 1931 0.93			
8 0242 0.24 0909 0.90 FR 1443 0.49 2022 0.95		16 0331 0.78 1002 0.32 SA 1612 0.84 2234 0.37		24 0241 0.24 0914 0.85 SU 1436 0.54 2008 0.92			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0344 0.91 1015 0.34 SU 1558 0.88 2240 0.24		9 0321 0.27 1013 0.84 MO 1538 0.51 2111 0.81		17 0450 0.91 1100 0.45 TU 1615 0.86 2301 0.23		25 0348 0.26 1036 0.82 WE 1623 0.48 2213 0.81	
2 0442 0.95 1104 0.37 MO 1637 0.90 2325 0.20		10 0403 0.29 1103 0.81 TU 1628 0.52 2208 0.76		18 0530 0.94 1136 0.46 WE 1646 0.88 2339 0.22		26 0449 0.31 1131 0.82 TH 1743 0.44 2340 0.80	
3 0533 0.97 1148 0.40 TU 1715 0.93		11 0455 0.32 1159 0.79 WE 1743 0.52 2325 0.72		19 0610 0.95 1210 0.48 TH 1719 0.90		27 0606 0.36 1230 0.82 FR 1907 0.36	
4 0006 0.19 0622 0.98 WE 1229 0.42 1754 0.95		12 0605 0.36 1256 0.78 TH 1921 0.48		20 0017 0.22 0650 0.95 FR 1244 0.50 1754 0.91		28 0116 0.83 0732 0.40 SA 1328 0.83 2021 0.28	
5 0046 0.20 0709 0.96 TH 1307 0.44 1832 0.95		13 0056 0.71 0730 0.38 FR 1350 0.78 2024 0.42		21 0056 0.22 0731 0.93 SA 1316 0.51 1830 0.91		29 0238 0.88 0856 0.42 SU 1422 0.85 ○ 2120 0.22	
6 0125 0.21 0755 0.94 FR 1344 0.46 ● 1910 0.93		14 0220 0.75 0842 0.40 SA 1433 0.79 2110 0.35		22 0135 0.22 0815 0.90 SU 1352 0.52 ● 1909 0.90		30 0343 0.94 0959 0.44 MO 1511 0.87 2211 0.18	
7 0203 0.23 0841 0.91 SA 1420 0.48 1948 0.90		15 0320 0.80 0937 0.41 SU 1510 0.81 ● 2148 0.30		23 0215 0.23 0859 0.87 MO 1432 0.52 1956 0.88		31 0437 0.98 1048 0.45 TU 1555 0.89 2254 0.17	
8 0242 0.25 0927 0.87 SU 1458 0.49 2027 0.86		16 0408 0.86 1022 0.43 MO 1543 0.83 2225 0.26		24 0259 0.24 0945 0.84 TU 1521 0.51 2056 0.85			

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

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER – 2023

Time	m	Time	m	Time	m	Time	m
1 0526 0.99 1130 0.46 WE 1636 0.91 2334 0.18		9 0403 0.37 1052 0.81 TH 1705 0.45 2306 0.70		17 0605 0.98 1156 0.52 FR 1646 0.89 2354 0.19		25 0537 0.45 1142 0.86 SA 1851 0.28	
2 0611 0.99 1210 0.47 TH 1717 0.92		10 0458 0.43 1139 0.80 FR 1824 0.41		18 0645 0.97 1233 0.52 SA 1729 0.90		26 0122 0.85 0704 0.51 SU 1236 0.86 1954 0.22	
3 0013 0.19 0653 0.98 FR 1247 0.47 1759 0.91		11 0036 0.72 0616 0.48 SA 1228 0.79 1927 0.35		19 0035 0.20 0725 0.94 SU 1312 0.51 1815 0.89		27 0235 0.90 0831 0.53 MO 1331 0.86 ○ 2051 0.18	
4 0051 0.21 0734 0.95 SA 1324 0.47 1839 0.89		12 0200 0.77 0752 0.51 SU 1315 0.80 2016 0.29		20 0115 0.21 0803 0.92 MO 1352 0.50 ● 1905 0.87		28 0337 0.95 0938 0.53 TU 1424 0.86 2141 0.17	
5 0128 0.23 0814 0.92 SU 1400 0.47 ● 1919 0.86		13 0303 0.84 0902 0.53 MO 1400 0.81 ● 2102 0.24		21 0157 0.23 0842 0.90 TU 1436 0.47 2004 0.85		29 0430 0.98 1030 0.52 WE 1514 0.87 2226 0.17	
6 0205 0.26 0852 0.89 MO 1438 0.48 2001 0.82		14 0355 0.90 0955 0.53 TU 1444 0.83 2145 0.21		22 0239 0.27 0921 0.88 WE 1528 0.44 2111 0.82		30 0516 0.99 1114 0.51 TH 1600 0.88 2306 0.18	
7 0242 0.28 0930 0.86 TU 1517 0.48 2049 0.77		15 0440 0.95 1038 0.53 WE 1525 0.85 2229 0.19		23 0327 0.32 1003 0.87 TH 1629 0.40 2225 0.80			
8 0320 0.32 1009 0.84 WE 1604 0.48 2149 0.73		16 0523 0.97 1117 0.53 TH 1605 0.88 2311 0.18		24 0424 0.39 1050 0.87 FR 1740 0.34 2353 0.81			

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Datum is Lowest Astronomical Tide

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

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0559 0.98 1154 0.49 FR 1647 0.88 2345 0.20		9 0408 0.47 1033 0.85 SA 1726 0.34		17 0633 0.96 1222 0.50 SU 1718 0.88		25 0112 0.85 0627 0.56 MO 1152 0.87 1923 0.20	
2 0637 0.97 1232 0.48 SA 1733 0.87		10 0000 0.74 0508 0.54 SU 1116 0.83 1827 0.30		18 0020 0.18 0709 0.94 MO 1306 0.47 1817 0.88		26 0221 0.89 0755 0.58 TU 1248 0.85 2019 0.18	
3 0022 0.22 0714 0.95 SU 1309 0.47 1818 0.85		11 0128 0.79 0627 0.59 MO 1205 0.82 1925 0.25		19 0102 0.21 0744 0.93 TU 1350 0.43 1917 0.86		27 0323 0.92 0914 0.57 WE 1345 0.84 ○ 2114 0.18	
4 0059 0.24 0747 0.92 MO 1345 0.46 1902 0.82		12 0241 0.85 0800 0.61 TU 1259 0.82 2019 0.21		20 0144 0.25 0817 0.93 WE 1438 0.39 ● 2016 0.85		28 0416 0.94 1012 0.54 TH 1441 0.83 2201 0.18	
5 0133 0.27 0819 0.90 TU 1421 0.45 ● 1948 0.79		13 0340 0.90 0915 0.61 WE 1352 0.83 ● 2112 0.18		21 0226 0.31 0854 0.92 TH 1529 0.34 2118 0.83		29 0502 0.95 1100 0.51 FR 1537 0.83 2245 0.19	
6 0208 0.30 0850 0.89 WE 1459 0.44 2037 0.76		14 0430 0.94 1011 0.59 TH 1443 0.85 2201 0.16		22 0311 0.37 0932 0.92 FR 1624 0.30 2229 0.82		30 0542 0.94 1141 0.48 SA 1632 0.82 2326 0.20	
7 0243 0.34 0921 0.88 TH 1541 0.41 2133 0.73		15 0515 0.96 1057 0.56 FR 1533 0.87 2250 0.16		23 0403 0.45 1014 0.91 SA 1723 0.26 2352 0.82		31 0617 0.93 1220 0.46 SU 1724 0.82	
8 0321 0.40 0956 0.86 FR 1629 0.38 2240 0.73		16 0556 0.96 1140 0.53 SA 1624 0.88 2336 0.16		24 0507 0.51 1100 0.90 SU 1824 0.22			

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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
Port Phillip Heads	0 00	1.5	1.3	0.6	0.4
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 - 2020)	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
0.000	Australian Height Datum (AHD)	0.950
-0.27	Mean Low Water Neaps (MLWN)	0.68
-0.53	Mean Low Water Springs (MLWS)	0.42
-0.950	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.35	Lowest recorded tide 27/10/1972 (1962 – 2020)	-0.40

Port Phillip

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2023

Time	m	Time	m	Time	m	Time	m
1 0630 1.52 1228 0.36 SU 1930 1.39		9 0154 1.56 0725 0.74 MO 1316 1.30 1927 0.30		17 0611 1.43 1210 0.37 TU 1914 1.36		25 0234 1.68 0807 0.55 WE 1423 1.50 2021 0.19	
2 0030 0.65 0714 1.45 MO 1318 0.36 2034 1.38		10 0229 1.58 0806 0.68 TU 1359 1.33 2006 0.30		18 0027 0.75 0650 1.38 WE 1253 0.33 2017 1.38		26 0319 1.70 0900 0.43 TH 1519 1.54 2111 0.25	
3 0122 0.76 0801 1.37 TU 1411 0.37 2137 1.40		11 0300 1.59 0845 0.63 WE 1440 1.34 2042 0.33		19 0120 0.84 0737 1.34 TH 1345 0.31 2127 1.40		27 0401 1.69 0949 0.33 FR 1615 1.55 2158 0.33	
4 0222 0.85 0853 1.31 WE 1509 0.37 2238 1.43		12 0331 1.59 0920 0.58 TH 1519 1.35 2115 0.37		20 0224 0.91 0836 1.30 FR 1448 0.28 2240 1.45		28 0441 1.66 1036 0.26 SA 1712 1.53 2242 0.43	
5 0332 0.89 0949 1.27 TH 1609 0.37 2336 1.46		13 0401 1.58 0955 0.54 FR 1600 1.36 2146 0.42		21 0341 0.94 0945 1.28 SA 1603 0.25 2349 1.51		29 0518 1.60 1119 0.24 SU 1808 1.50 2324 0.54	
6 0445 0.89 1045 1.25 FR 1706 0.35		14 0432 1.56 1027 0.50 SA 1641 1.36 2219 0.49		22 0500 0.89 1107 1.31 SU 1720 0.21		30 0556 1.53 1201 0.25 MO 1904 1.45	
7 0029 1.50 0548 0.85 SA 1141 1.25 1758 0.33		15 0503 1.53 1059 0.45 SU 1725 1.36 2258 0.56		23 0051 1.58 0611 0.80 MO 1221 1.36 1828 0.17		31 0005 0.64 0634 1.45 TU 1243 0.29 2000 1.40	
8 0115 1.54 0640 0.80 SU 1230 1.28 1845 0.31		16 0536 1.48 1132 0.41 MO 1815 1.36 2340 0.65		24 0145 1.64 0712 0.67 TU 1325 1.44 1927 0.16			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0049 0.74 0715 1.37 WE 1327 0.34 2056 1.37		9 0236 1.53 0830 0.57 TH 1430 1.36 2029 0.39		17 0052 0.81 0700 1.35 FR 1313 0.27 2054 1.38		25 0332 1.65 0929 0.21 SA 1608 1.65 2142 0.41	
2 0139 0.82 0801 1.29 TH 1417 0.39 2155 1.34		10 0306 1.55 0903 0.50 FR 1509 1.41 2101 0.42		18 0149 0.88 0801 1.30 SA 1416 0.29 2211 1.38		26 0410 1.62 1011 0.17 SU 1657 1.63 2221 0.49	
3 0238 0.89 0857 1.23 FR 1519 0.42 2257 1.34		11 0335 1.56 0934 0.43 SA 1548 1.45 2134 0.46		19 0304 0.90 0921 1.27 SU 1538 0.31 2324 1.42		27 0445 1.57 1050 0.18 MO 1744 1.58 2300 0.56	
4 0353 0.91 1001 1.19 SA 1628 0.43 2358 1.37		12 0405 1.55 1005 0.38 SU 1628 1.47 2209 0.51		20 0432 0.85 1055 1.29 MO 1705 0.30 ●		28 0519 1.51 1128 0.22 TU 1830 1.51 2338 0.64	
5 0511 0.88 1106 1.18 SU 1731 0.41		13 0435 1.53 1035 0.33 MO 1709 1.48 2246 0.57		21 0028 1.49 0554 0.73 TU 1215 1.37 1819 0.28			
6 0050 1.41 0618 0.82 MO 1206 1.21 ○ 1826 0.38		14 0506 1.49 1107 0.29 TU 1755 1.47 ● 2325 0.65		22 0122 1.56 0700 0.57 WE 1321 1.48 1919 0.27			
7 0131 1.46 0711 0.74 TU 1300 1.26 1913 0.37		15 0539 1.44 1143 0.27 WE 1845 1.44		23 0210 1.62 0755 0.42 TH 1421 1.57 2012 0.30			
8 0206 1.50 0753 0.65 WE 1346 1.31 1953 0.37		16 0006 0.73 0615 1.40 TH 1224 0.26 1945 1.40		24 0253 1.65 0845 0.29 FR 1516 1.63 2059 0.35			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0555 1.43 1205 0.28 WE 1916 1.43		9 0130 1.43 0729 0.59 TH 1335 1.36 1935 0.49		17 0552 1.40 1201 0.27 FR 1920 1.43		25 0220 1.60 0817 0.23 SA 1505 1.73 2040 0.50	
2 0016 0.71 0632 1.35 TH 1245 0.35 2007 1.35		10 0201 1.48 0801 0.49 FR 1418 1.45 2011 0.49		18 0030 0.79 0642 1.34 SA 1251 0.32 2029 1.37		26 0259 1.60 0859 0.18 SU 1550 1.74 2119 0.53	
3 0100 0.79 0715 1.27 FR 1330 0.42 2103 1.29		11 0232 1.51 0833 0.41 SA 1457 1.53 2045 0.51		19 0127 0.83 0749 1.29 SU 1355 0.39 2145 1.35		27 0334 1.57 0938 0.18 MO 1632 1.71 2157 0.57	
4 0152 0.86 0810 1.20 SA 1425 0.49 2207 1.27		12 0303 1.53 0904 0.34 SU 1535 1.58 2118 0.53		20 0244 0.84 0920 1.27 MO 1520 0.44 2256 1.38		28 0410 1.53 1016 0.21 TU 1713 1.64 2233 0.62	
5 0301 0.90 0920 1.15 SU 1540 0.53 2313 1.28		13 0335 1.53 0935 0.29 MO 1613 1.60 2154 0.57		21 0418 0.76 1055 1.32 TU 1653 0.46 2358 1.44		29 0444 1.48 1053 0.27 WE 1751 1.56 ● 2309 0.67	
6 0434 0.88 1037 1.15 MO 1700 0.53		14 0406 1.51 1008 0.26 TU 1653 1.60 2230 0.62		22 0540 0.61 1212 1.43 WE 1808 0.46 ●		30 0519 1.41 1129 0.34 TH 1831 1.47 2346 0.72	
7 0010 1.32 0557 0.80 TU 1147 1.19 ○ 1805 0.51		15 0439 1.48 1043 0.24 WE 1735 1.56 ● 2308 0.67		23 0051 1.51 0641 0.46 TH 1317 1.56 1907 0.45		31 0557 1.34 1206 0.41 FR 1915 1.38	
8 0054 1.38 0650 0.70 WE 1246 1.27 1855 0.49		16 0514 1.44 1119 0.24 TH 1824 1.50 2346 0.73		24 0138 1.57 0731 0.32 FR 1415 1.67 1957 0.47			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0027 0.78 0639 1.27 SA 1246 0.49 2009 1.31		9 0154 1.48 0753 0.35 SU 1440 1.67 2021 0.64		17 0117 0.78 0757 1.30 MO 1344 0.54 2117 1.39		25 0300 1.53 0904 0.26 TU 1604 1.75 2130 0.68	
2 0114 0.84 0733 1.20 SU 1335 0.57 2110 1.27		10 0230 1.50 0828 0.29 MO 1518 1.72 2058 0.65		18 0239 0.75 0933 1.32 TU 1506 0.62 2222 1.41		26 0335 1.50 0942 0.30 WE 1640 1.68 2206 0.70	
3 0216 0.87 0846 1.15 MO 1439 0.64 2214 1.27		11 0304 1.51 0903 0.26 TU 1558 1.72 2134 0.66		19 0407 0.65 1058 1.41 WE 1635 0.66 2321 1.44		27 0411 1.46 1019 0.36 TH 1715 1.60 2242 0.73	
4 0351 0.85 1013 1.16 TU 1608 0.68 2312 1.29		12 0340 1.50 0941 0.25 WE 1638 1.69 2212 0.69		20 0518 0.51 1208 1.54 TH 1750 0.67 ●		28 0448 1.40 1055 0.43 FR 1752 1.53 ● 2319 0.76	
5 0520 0.76 1129 1.23 WE 1732 0.68		13 0415 1.47 1019 0.26 TH 1721 1.63 ● 2250 0.72		21 0014 1.49 0615 0.38 FR 1308 1.67 1848 0.66		29 0527 1.34 1130 0.50 SA 1832 1.45 2358 0.80	
6 0000 1.34 0610 0.65 TH 1229 1.35 ○ 1828 0.67		14 0455 1.44 1100 0.29 FR 1809 1.55 2331 0.75		22 0101 1.52 0701 0.29 SA 1400 1.76 1935 0.66		30 0611 1.28 1208 0.58 SU 1918 1.39	
7 0041 1.40 0647 0.54 FR 1317 1.47 1909 0.65		15 0541 1.40 1145 0.35 SA 1904 1.47		23 0144 1.54 0745 0.24 SU 1446 1.80 2016 0.66			
8 0118 1.45 0720 0.44 SA 1400 1.58 1945 0.64		16 0017 0.78 0639 1.34 SU 1237 0.44 2009 1.42		24 0223 1.54 0825 0.23 MO 1527 1.79 2054 0.67			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0043 0.82 0707 1.23 MO 1252 0.67 2011 1.35		9 0156 1.49 0752 0.28 TU 1500 1.80 2033 0.77		17 0233 0.63 0940 1.42 WE 1448 0.80 2144 1.45		25 0305 1.47 0912 0.39 TH 1612 1.69 2142 0.77	
2 0138 0.83 0821 1.20 TU 1346 0.76 2107 1.32		10 0236 1.51 0834 0.26 WE 1543 1.79 2113 0.76		18 0346 0.55 1052 1.52 TH 1608 0.85 2241 1.45		26 0344 1.44 0948 0.44 FR 1645 1.64 2219 0.78	
3 0250 0.80 0946 1.23 WE 1458 0.84 2202 1.33		11 0317 1.51 0917 0.27 TH 1626 1.74 2154 0.75		19 0449 0.46 1156 1.62 FR 1723 0.86 2334 1.47		27 0422 1.40 1024 0.51 SA 1720 1.58 2256 0.78	
4 0414 0.72 1100 1.33 TH 1629 0.87 2255 1.35		12 0400 1.49 1002 0.31 FR 1711 1.68 2236 0.74		20 0542 0.38 1251 1.72 SA 1821 0.84 ●		28 0502 1.35 1058 0.58 SU 1756 1.53 ● 2334 0.78	
5 0511 0.61 1200 1.45 FR 1744 0.86 2345 1.38		13 0447 1.46 1048 0.38 SA 1759 1.61 ● 2323 0.74		21 0023 1.48 0629 0.33 SU 1340 1.78 1908 0.82		29 0548 1.31 1134 0.66 MO 1835 1.48	
6 0553 0.50 1250 1.58 SA 1832 0.84 ○		14 0541 1.42 1137 0.47 SU 1850 1.54		22 0108 1.50 0712 0.31 MO 1423 1.80 1949 0.80		30 0016 0.78 0645 1.28 TU 1215 0.75 1917 1.44	
7 0030 1.43 0632 0.41 SU 1335 1.69 1914 0.81		15 0015 0.72 0647 1.37 MO 1231 0.58 1947 1.49		23 0149 1.50 0753 0.32 TU 1502 1.78 2028 0.78		31 0103 0.75 0755 1.28 WE 1306 0.85 2004 1.41	
8 0114 1.46 0712 0.33 MO 1418 1.77 1953 0.79		16 0119 0.69 0815 1.37 TU 1334 0.70 2046 1.46		24 0228 1.49 0833 0.35 WE 1538 1.74 2104 0.77			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0157 0.71 0911 1.33 TH 1408 0.94 2055 1.38		9 0303 1.53 0901 0.31 FR 1615 1.77 2141 0.74		17 0415 0.45 1134 1.62 SA 1645 0.98 2253 1.43		25 0401 1.40 0958 0.55 SU 1650 1.62 2238 0.74	
2 0256 0.64 1020 1.42 FR 1522 1.00 2149 1.38		10 0353 1.52 0951 0.37 SA 1700 1.72 2230 0.69		18 0510 0.42 1229 1.68 SU 1747 0.95 ● 2346 1.43		26 0444 1.38 1030 0.62 MO 1722 1.58 ● 2314 0.71	
3 0357 0.56 1122 1.53 SA 1641 1.01 2245 1.39		11 0445 1.50 1041 0.46 SU 1745 1.67 ● 2321 0.65		19 0559 0.39 1317 1.71 MO 1838 0.92		27 0530 1.36 1107 0.70 TU 1755 1.55 2350 0.67	
4 0453 0.47 1218 1.64 SU 1746 0.98 ○ 2341 1.42		12 0546 1.46 1131 0.57 MO 1831 1.61		20 0035 1.44 0645 0.39 TU 1401 1.72 1923 0.88		28 0623 1.36 1147 0.78 WE 1831 1.50	
5 0545 0.38 1309 1.73 MO 1837 0.94		13 0016 0.61 0703 1.44 TU 1223 0.69 1920 1.56		21 0120 1.45 0728 0.39 WE 1440 1.72 2004 0.84		29 0029 0.63 0724 1.37 TH 1234 0.88 1912 1.46	
6 0034 1.45 0634 0.32 TU 1358 1.79 1924 0.89		14 0114 0.56 0821 1.46 WE 1319 0.81 2010 1.51		22 0201 1.45 0809 0.41 TH 1515 1.70 2045 0.81		30 0112 0.59 0830 1.41 FR 1329 0.96 1958 1.42	
7 0126 1.49 0723 0.28 WE 1444 1.81 2008 0.84		15 0214 0.52 0930 1.50 TH 1422 0.91 2103 1.47		23 0242 1.44 0847 0.45 FR 1547 1.67 2123 0.79			
8 0215 1.52 0813 0.28 TH 1530 1.80 2054 0.79		16 0315 0.49 1034 1.56 FR 1532 0.97 2159 1.45		24 0322 1.43 0923 0.49 SA 1619 1.65 2201 0.76			

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Datum is Lowest Astronomical Tide

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2023

Time	m	Time	m	Time	m	Time	m
1 0201 0.54 0936 1.47 SA 1433 1.03 2050 1.40		9 0350 1.57 0943 0.40 SU 1642 1.74 2224 0.55		17 0438 0.46 1203 1.56 MO 1712 0.99 2313 1.36		25 0427 1.44 1010 0.62 TU 1647 1.59 2248 0.57	
2 0259 0.48 1042 1.54 SU 1545 1.06 2149 1.39		10 0448 1.56 1032 0.50 MO 1723 1.70 ● 2315 0.48		18 0533 0.45 1256 1.58 TU 1812 0.94 ●		26 0510 1.44 1046 0.69 WE 1718 1.56 ● 2320 0.53	
3 0403 0.42 1145 1.61 MO 1659 1.04 ○ 2255 1.40		11 0553 1.54 1120 0.61 TU 1803 1.65		19 0007 1.36 0624 0.43 WE 1341 1.61 1902 0.88		27 0558 1.44 1126 0.77 TH 1752 1.52 2354 0.50	
4 0507 0.36 1244 1.68 TU 1800 0.99		12 0003 0.45 0701 1.52 WE 1207 0.73 1846 1.58		20 0058 1.38 0709 0.43 TH 1419 1.62 1948 0.82		28 0651 1.44 1208 0.85 FR 1828 1.47	
5 0003 1.44 0608 0.31 WE 1337 1.74 1856 0.91		13 0052 0.43 0805 1.51 TH 1256 0.84 1932 1.52		21 0143 1.40 0751 0.44 FR 1452 1.63 2030 0.77		29 0033 0.46 0750 1.44 SA 1256 0.93 1911 1.43	
6 0105 1.49 0704 0.28 TH 1428 1.77 1948 0.82		14 0143 0.44 0906 1.51 FR 1350 0.93 2022 1.46		22 0226 1.41 0829 0.47 SA 1521 1.63 2108 0.71		30 0119 0.43 0856 1.45 SU 1351 1.00 2002 1.39	
7 0201 1.53 0759 0.29 FR 1515 1.78 2040 0.72		15 0238 0.46 1006 1.52 SA 1453 0.99 2116 1.40		23 0306 1.42 0903 0.51 SU 1549 1.63 2143 0.66		31 0216 0.41 1006 1.48 MO 1500 1.04 2108 1.37	
8 0256 1.56 0851 0.33 SA 1559 1.77 2132 0.63		16 0338 0.47 1106 1.54 SU 1603 1.01 2215 1.37		24 0346 1.43 0936 0.56 MO 1618 1.61 2216 0.62			

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PORT PHILLIP HEADS (PT. LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

AUGUST - 2023

Time	m	Time	m	Time	m	Time	m
1 0326 0.38		9 0543 1.61		17 0606 0.48		25 0532 1.51	
1116 1.52		1100 0.62		1315 1.49		1105 0.73	
TU 1617 1.02		WE 1730 1.62		TH 1848 0.81		FR 1717 1.48	
2225 1.37		2337 0.31				2321 0.38	
2 0441 0.35		10 0639 1.56		18 0043 1.33		26 0621 1.48	
1220 1.59		1143 0.71		0654 0.46		1144 0.80	
WE 1730 0.94		TH 1810 1.55		FR 1350 1.53		SA 1752 1.44	
○ 2345 1.41				1932 0.73			
3 0551 0.31		11 0020 0.35		19 0130 1.38		27 0000 0.36	
1315 1.65		0735 1.51		0735 0.47		0716 1.44	
TH 1835 0.82		FR 1227 0.80		SA 1420 1.56		SU 1226 0.87	
		1852 1.47		2011 0.65		1833 1.39	
4 0054 1.49		12 0105 0.40		20 0215 1.42		28 0046 0.36	
0653 0.29		0831 1.46		0812 0.49		0822 1.40	
FR 1406 1.70		SA 1315 0.88		SU 1448 1.58		MO 1317 0.93	
1933 0.68		1941 1.40		2045 0.58		1930 1.35	
5 0155 1.56		13 0156 0.45		21 0254 1.47		29 0145 0.38	
0748 0.31		0930 1.42		0845 0.52		0936 1.40	
SA 1451 1.74		SU 1411 0.94		MO 1516 1.58		TU 1425 0.95	
2028 0.55		2036 1.33		2115 0.51		2045 1.32	
6 0252 1.62		14 0257 0.49		22 0331 1.50		30 0300 0.39	
0841 0.36		1031 1.41		0918 0.56		1049 1.43	
SU 1533 1.74		MO 1521 0.97		TU 1545 1.58		WE 1549 0.92	
2118 0.44		2140 1.28		2146 0.46		2215 1.33	
7 0348 1.64		15 0405 0.51		23 0409 1.52		31 0424 0.38	
0930 0.43		1134 1.42		0952 0.61		1153 1.49	
MO 1614 1.72		TU 1641 0.96		WE 1615 1.56		TH 1712 0.80	
2207 0.36		2246 1.27		2216 0.43		○ 2340 1.41	
8 0445 1.64		16 0510 0.50		24 0449 1.53			
1016 0.52		1230 1.45		1029 0.66			
TU 1652 1.68		WE 1752 0.90		TH 1645 1.52			
● 2253 0.31		● 2348 1.29		● 2247 0.40			

Port Phillip

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Datum is Lowest Astronomical Tide

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

SEPTEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0541 0.36 1248 1.56 FR 1819 0.64		9 0657 1.48 1156 0.74 SA 1815 1.40		17 0120 1.41 0716 0.53 SU 1340 1.48 1939 0.51		25 0649 1.43 1202 0.80 MO 1814 1.34	
2 0049 1.52 0644 0.35 SA 1336 1.63 1916 0.48		10 0027 0.39 0750 1.39 SU 1239 0.81 1901 1.32		18 0200 1.49 0752 0.54 MO 1410 1.51 2010 0.43		26 0021 0.36 0754 1.37 TU 1254 0.83 1918 1.30	
3 0150 1.62 0738 0.37 SU 1421 1.67 2007 0.35		11 0114 0.47 0848 1.33 MO 1330 0.87 2000 1.25		19 0238 1.56 0825 0.55 TU 1441 1.52 2040 0.37		27 0122 0.41 0908 1.35 WE 1403 0.83 2045 1.28	
4 0246 1.70 0827 0.41 MO 1501 1.68 2055 0.25		12 0212 0.53 0951 1.30 TU 1440 0.91 2111 1.20		20 0314 1.60 0859 0.57 WE 1512 1.52 2111 0.33		28 0241 0.47 1018 1.37 TH 1533 0.76 2219 1.33	
5 0339 1.72 0912 0.47 TU 1540 1.66 2140 0.21		13 0326 0.57 1054 1.30 WE 1614 0.89 2227 1.20		21 0350 1.62 0933 0.60 TH 1544 1.50 2143 0.31		29 0411 0.49 1120 1.42 FR 1657 0.62 ○ 2339 1.45	
6 0430 1.71 0955 0.54 WE 1617 1.62 2222 0.21		14 0444 0.57 1150 1.34 TH 1734 0.81 2335 1.24		22 0428 1.60 1008 0.64 FR 1615 1.47 2216 0.30		30 0530 0.48 1215 1.49 SA 1801 0.45	
7 0518 1.65 1035 0.60 TH 1655 1.56 ● 2303 0.25		15 0547 0.55 1234 1.38 FR 1827 0.70 ●		23 0509 1.56 1045 0.69 SA 1648 1.43 ● 2252 0.30			
8 0607 1.57 1115 0.67 FR 1733 1.49 2345 0.32		16 0032 1.32 0636 0.54 SA 1309 1.43 1905 0.60		24 0556 1.50 1121 0.75 SU 1726 1.39 2332 0.32			

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Datum is Lowest Astronomical Tide

PORT PHILLIP HEADS (PT. LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER – 2023

Time	m	Time	m	Time	m	Time	m
1 0045 1.59 0631 0.48 SU 1302 1.55 1853 0.30		9 0701 1.37 1208 0.75 MO 1827 1.26		17 0141 1.58 0728 0.63 TU 1330 1.44 1931 0.32		25 0004 0.41 0729 1.38 WE 1243 0.71 1921 1.27	
2 0143 1.71 0723 0.48 MO 1346 1.59 1941 0.19		10 0032 0.50 0758 1.30 TU 1257 0.80 1927 1.19		18 0217 1.66 0801 0.62 WE 1406 1.46 2003 0.27		26 0107 0.51 0836 1.35 TH 1355 0.68 2056 1.29	
3 0234 1.77 0808 0.50 TU 1428 1.60 2025 0.14		11 0124 0.59 0859 1.25 WE 1401 0.83 2046 1.15		19 0254 1.70 0836 0.62 TH 1441 1.46 2038 0.24		27 0226 0.60 0942 1.35 FR 1521 0.59 2223 1.38	
4 0321 1.79 0850 0.53 WE 1506 1.58 2107 0.14		12 0232 0.66 0959 1.24 TH 1540 0.80 2211 1.17		20 0331 1.70 0912 0.63 FR 1516 1.45 2113 0.24		28 0354 0.64 1042 1.38 SA 1637 0.45 2334 1.52	
5 0405 1.75 0930 0.56 TH 1544 1.55 2149 0.18		13 0403 0.69 1053 1.26 FR 1700 0.71 2321 1.25		21 0410 1.66 0947 0.65 SA 1551 1.43 2150 0.25		29 0514 0.65 1137 1.43 SU 1736 0.31 ○	
6 0447 1.67 1009 0.60 FR 1621 1.49 ● 2229 0.25		14 0520 0.68 1139 1.30 SA 1749 0.60		22 0451 1.60 1025 0.67 SU 1630 1.40 ● 2230 0.28		30 0036 1.66 0615 0.63 MO 1227 1.47 1827 0.20	
7 0530 1.57 1047 0.64 SA 1700 1.42 2309 0.33		15 0016 1.36 0613 0.66 SU 1219 1.35 ● 1826 0.49		23 0537 1.52 1103 0.70 MO 1714 1.36 2313 0.33		31 0130 1.76 0705 0.61 TU 1313 1.50 1912 0.14	
8 0613 1.46 1126 0.70 SU 1741 1.34 2348 0.42		16 0101 1.48 0653 0.64 MO 1255 1.40 1859 0.40		24 0629 1.44 1147 0.71 TU 1809 1.31			

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Datum is Lowest Astronomical Tide

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0216 1.80 0747 0.60 WE 1355 1.51 1955 0.13		9 0040 0.64 0753 1.28 TH 1326 0.72 2020 1.15		17 0236 1.74 0814 0.68 FR 1415 1.42 2010 0.19		25 0208 0.71 0900 1.37 SA 1500 0.43 2216 1.44	
2 0300 1.80 0828 0.59 TH 1435 1.51 2037 0.16		10 0138 0.73 0847 1.25 FR 1440 0.69 2144 1.19		18 0316 1.73 0851 0.66 SA 1456 1.43 2050 0.20		26 0327 0.78 1000 1.36 SU 1608 0.34 2322 1.56	
3 0340 1.74 0906 0.60 FR 1514 1.48 2118 0.21		11 0254 0.81 0942 1.24 SA 1600 0.62 2252 1.29		19 0358 1.69 0930 0.64 SU 1537 1.42 2132 0.23		27 0446 0.80 1057 1.38 MO 1708 0.26 ○	
4 0418 1.66 0945 0.61 SA 1552 1.43 2158 0.28		12 0427 0.83 1033 1.26 SU 1655 0.52 2348 1.41		20 0440 1.63 1011 0.63 MO 1621 1.39 ● 2216 0.29		28 0020 1.66 0551 0.77 TU 1151 1.40 1800 0.20	
5 0456 1.57 1023 0.63 SU 1631 1.37 ● 2236 0.36		13 0534 0.81 1122 1.29 MO 1738 0.42 ●		21 0524 1.56 1054 0.62 TU 1712 1.36 2303 0.37		29 0112 1.72 0643 0.73 WE 1241 1.42 1846 0.17	
6 0534 1.48 1101 0.67 MO 1713 1.30 2315 0.45		14 0034 1.53 0621 0.78 TU 1208 1.33 1815 0.33		22 0611 1.49 1144 0.60 WE 1813 1.32 2356 0.48		30 0159 1.75 0727 0.69 TH 1327 1.43 1930 0.18	
7 0615 1.40 1143 0.70 TU 1800 1.22 2354 0.54		15 0115 1.63 0700 0.74 WE 1251 1.37 1853 0.26		23 0703 1.43 1241 0.56 TH 1932 1.30			
8 0701 1.33 1229 0.72 WE 1859 1.17		16 0156 1.70 0736 0.71 TH 1333 1.41 1931 0.21		24 0057 0.61 0801 1.39 FR 1347 0.51 2101 1.35			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0240 1.74 0807 0.66 FR 1410 1.43 2014 0.21		9 0054 0.77 0737 1.31 SA 1341 0.57 2058 1.24		17 0305 1.72 0834 0.66 SU 1443 1.43 2037 0.18		25 0251 0.85 0916 1.34 MO 1534 0.31 2301 1.51	
2 0319 1.70 0847 0.64 SA 1450 1.41 2054 0.25		10 0154 0.86 0828 1.27 SU 1438 0.52 2205 1.32		18 0347 1.70 0918 0.59 MO 1530 1.44 2123 0.23		26 0408 0.88 1018 1.32 TU 1638 0.28	
3 0355 1.64 0926 0.62 SU 1530 1.38 2132 0.32		11 0308 0.92 0922 1.25 MO 1539 0.46 2306 1.42		19 0429 1.66 1004 0.53 TU 1620 1.43 2211 0.31		27 0000 1.57 0519 0.86 WE 1118 1.32 ○ 1735 0.26	
4 0430 1.58 1005 0.62 MO 1610 1.33 2209 0.39		12 0430 0.93 1019 1.26 TU 1638 0.38		20 0510 1.61 1052 0.47 WE 1715 1.41 ● 2300 0.41		28 0054 1.61 0618 0.80 TH 1214 1.33 1826 0.24	
5 0503 1.52 1044 0.62 TU 1652 1.28 ● 2245 0.47		13 0000 1.52 0536 0.90 WE 1117 1.28 ● 1730 0.30		21 0552 1.55 1142 0.42 TH 1820 1.39 2350 0.54		29 0142 1.63 0708 0.75 FR 1304 1.35 1913 0.25	
6 0538 1.46 1123 0.62 WE 1738 1.24 2323 0.57		14 0049 1.61 0626 0.84 TH 1214 1.32 1819 0.23		22 0636 1.50 1234 0.38 FR 1938 1.38		30 0225 1.64 0753 0.69 SA 1350 1.36 1957 0.26	
7 0614 1.40 1204 0.61 TH 1833 1.20		15 0136 1.68 0709 0.78 FR 1306 1.36 1905 0.19		23 0044 0.66 0724 1.44 SA 1330 0.35 2050 1.41		31 0302 1.63 0835 0.65 SU 1433 1.36 2037 0.30	
8 0004 0.67 0653 1.35 FR 1250 0.60 1944 1.20		16 0221 1.71 0751 0.72 SA 1355 1.40 1951 0.17		24 0143 0.78 0818 1.38 SU 1430 0.33 2158 1.46			

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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
0.000	Australian Height Datum	1.250
-0.31	Mean Low Water Neaps (MLWN)	0.94
-0.51	Mean Low Water Springs (MLWS)	0.74
-1.250	Chart & Prediction Datum (Nepean Bank)	0.000
	Lowest Astronomical Tide (LAT)	
-1.69	Lowest recorded tide 27/11/2003 Lorne (1993 – 2016)	-0.44

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

The Rip Tidal Datums - Rip Bank

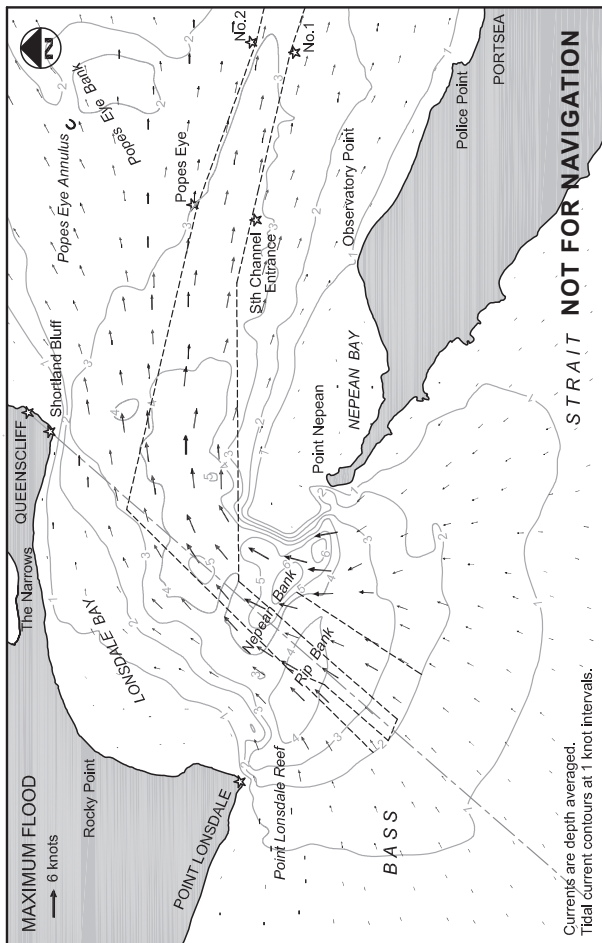
Latitude 38° 18' S Longitude 144° 37½'E (WGS84)

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

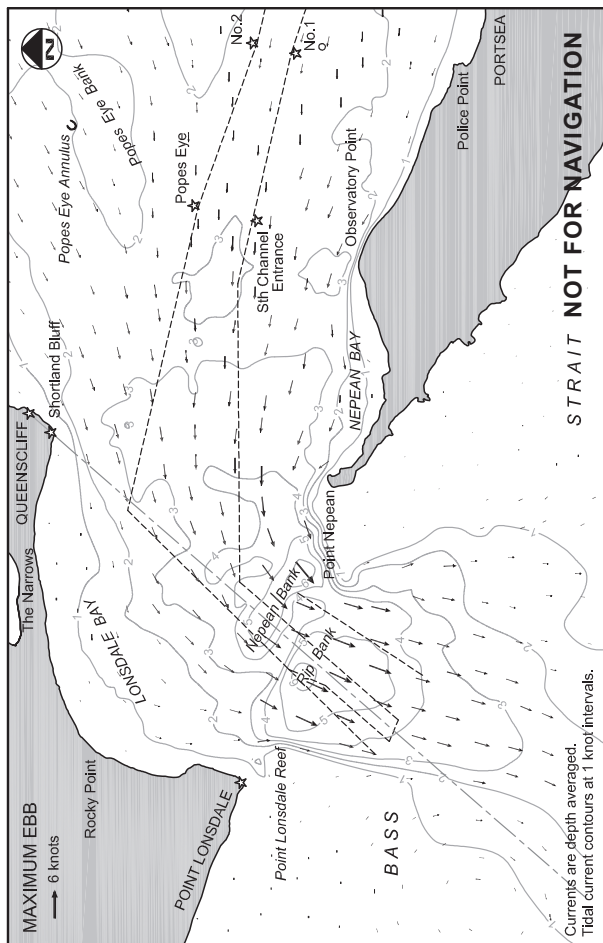
The Rip

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

Port Phillip Heads current vector diagram - Flood



Port Phillip Heads current vector diagram - Ebb



AUSTRALIA, SOUTH COAST - THE RIP

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

January - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0607	2.08	1.55	9	0122	2.14	1.50	17	0550	2.02	1.56	25	0205	2.30	1.52
SU	1151	0.37	0.35	MO	0714	1.00	0.98	TU	1158	0.52	0.50	WE	0740	0.64	0.65
	1911	1.97	1.46		1304	1.88	1.55		1915	1.94	1.41		1408	2.13	1.59
					1900	0.50	0.49						1953	0.23	0.28
2	0017	0.89	0.82	10	0157	2.15	1.50	18	0020	1.15	1.07	26	0252	2.29	1.52
MO	0651	2.00	1.55	TU	0749	0.91	0.90	WE	0629	1.97	1.58	TH	0827	0.44	0.48
	1238	0.41	0.38		1346	1.89	1.53		1245	0.51	0.48		1505	2.15	1.54
	2011	1.96	1.47		1937	0.49	0.48		2019	1.99	1.46		2043	0.30	0.34
3	0113	1.04	0.95	11	0231	2.16	1.51	19	0118	1.27	1.17	27	0336	2.26	1.52
TU	0741	1.93	1.55	WE	0820	0.83	0.82	TH	0721	1.94	1.61	FR	0912	0.30	0.36
	1329	0.47	0.42		1425	1.91	1.51		1339	0.49	0.47		1600	2.13	1.50
	2110	1.97	1.48		2013	0.50	0.49		2122	2.06	1.51		2131	0.41	0.44
4	0216	1.16	1.06	12	0303	2.16	1.51	20	0224	1.34	1.23	28	0417	2.21	1.53
WE	0836	1.88	1.56	TH	0850	0.74	0.75	FR	0827	1.92	1.63	SA	0956	0.22	0.29
	1427	0.53	0.48		1503	1.91	1.48		1440	0.47	0.44		1655	2.10	1.46
	2209	2.00	1.49		2049	0.53	0.53		2224	2.13	1.54		2218	0.55	0.56
5	0324	1.23	1.14	13	0336	2.15	1.51	21	0336	1.35	1.24	29	0456	2.15	1.53
TH	0933	1.86	1.57	FR	0923	0.67	0.67	SA	0939	1.93	1.66	SU	1039	0.22	0.28
	1532	0.57	0.53		1542	1.91	1.45		1549	0.41	0.41	MO	1749	2.04	1.44
	2306	2.04	1.50		2126	0.61	0.61		2324	2.19	1.56	TU	2304	0.72	0.69
6	0437	1.23	1.16	14	0409	2.13	1.52	22	0450	1.26	1.17	30	0535	2.07	1.53
FR	1030	1.85	1.58	SA	0957	0.61	0.61	SU	1050	1.96	1.68	MO	1122	0.27	0.31
	1637	0.57	0.55		1624	1.91	1.42	MO	1659	0.33	0.34		1843	1.99	1.42
	2358	2.08	1.50		2204	0.71	0.71						2352	0.88	0.84
7	0542	1.18	1.12	15	0442	2.11	1.52	23	0021	2.25	1.55	31	0614	1.99	1.52
SA	1126	1.85	1.58	SU	1035	0.56	0.56	MO	0555	1.09	1.03	TU	1207	0.36	0.38
O	1732	0.55	0.53	O	1714	1.90	1.39		1201	2.01	1.67		1937	1.94	1.41
					2245	0.85	0.82		1802	0.26	0.29				
8	0043	2.12	1.50	16	0516	2.07	1.53	24	0114	2.28	1.53				
SU	0633	1.10	1.05	MO	1115	0.53	0.52	TU	0651	0.87	0.84				
	1218	1.86	1.57		1812	1.91	1.39		1307	2.08	1.63				
	1818	0.52	0.51		2330	1.00	0.95		1900	0.22	0.26				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0043	1.04	0.97	9	0202	2.10	1.45	17	0052	1.21	1.14	25	0308	2.19	1.49
	0659	1.91	1.52		0749	0.73	0.77		0637	1.93	1.59		0847	0.14	0.25
WE	1254	0.48	0.46	TH	1406	1.93	1.45	FR	1309	0.46	0.48	SA	1544	2.20	1.48
	2033	1.91	1.40		1954	0.53	0.54		2048	2.02	1.44		2114	0.47	0.50
2	0139	1.17	1.08	10	0235	2.13	1.47	18	0154	1.28	1.19	26	0348	2.15	1.51
	0753	1.84	1.52		0819	0.61	0.67		0755	1.89	1.59		0929	0.11	0.22
TH	1349	0.59	0.55	FR	1445	1.97	1.43	SA	1413	0.50	0.51	SU	1633	2.15	1.46
	2132	1.90	1.40		2030	0.55	0.57		2154	2.04	1.45		2158	0.58	0.60
3	0245	1.26	1.16	11	0308	2.14	1.48	19	0304	1.27	1.18	27	0426	2.10	1.51
	0856	1.79	1.53		0851	0.51	0.57		0921	1.89	1.60		1010	0.16	0.25
FR	1457	0.67	0.62	SA	1525	2.00	1.41	SU	1529	0.49	0.51	MO	1721	2.08	1.43
	2234	1.92	1.41		2107	0.61	0.63		2258	2.07	1.45	MO	2242	0.72	0.72
4	0402	1.28	1.18	12	0341	2.13	1.49	20	0420	1.16	1.10	28	0502	2.03	1.51
	0959	1.77	1.53		0926	0.43	0.50		1041	1.93	1.61		1051	0.26	0.32
SA	1610	0.69	0.64	SU	1608	2.01	1.39	MO	1644	0.45	0.47	TU	1808	2.00	1.40
	2329	1.95	1.41		2145	0.71	0.72		2357	2.12	1.44		2326	0.87	0.85
5	0516	1.21	1.15	13	0413	2.11	1.50	21	0530	0.95	0.93				
	1100	1.78	1.53		1003	0.39	0.45		1155	2.01	1.59				
SU	1710	0.67	0.63	MO	1655	2.02	1.38	TU	1750	0.39	0.42				
					2225	0.83	0.83								
6	0015	2.00	1.42	14	0445	2.07	1.52	22	0050	2.16	1.44				
	0609	1.10	1.07		1043	0.37	0.43		0628	0.70	0.72				
MO	1155	1.80	1.51	TU	1747	2.02	1.39	WE	1301	2.10	1.56				
O	1758	0.62	0.59	O	2309	0.97	0.95		1848	0.35	0.39				
7	0053	2.04	1.43	15	0516	2.03	1.54	23	0139	2.18	1.45				
	0648	0.98	0.98		1127	0.39	0.43		0718	0.45	0.52				
TU	1243	1.85	1.49	WE	1843	2.02	1.40	TH	1400	2.17	1.54				
	1840	0.58	0.56		2357	1.10	1.06		1940	0.35	0.39				
8	0128	2.07	1.44	16	0550	1.98	1.58	24	0225	2.20	1.47				
	0720	0.85	0.88		1214	0.42	0.45		0803	0.25	0.35				
WE	1326	1.89	1.47	TH	1944	2.01	1.42	FR	1454	2.21	1.52				
	1918	0.54	0.53						2029	0.39	0.43				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0539	1.94	1.50	9	0053	2.00	1.44	17	0531	1.96	1.55	25	0154	2.11	1.50
	1133	0.39	0.41		0644	0.75	0.79		1150	0.42	0.46		0737	0.16	0.26
WE	1856	1.92	1.38	TH	1308	1.94	1.45	FR	1915	2.03	1.43	SA	1437	2.28	1.55
					1857	0.65	0.62						2012	0.53	0.56
2	0013	1.01	0.96	10	0128	2.05	1.47	18	0033	1.12	1.06	26	0238	2.12	1.53
	0620	1.85	1.48		0714	0.60	0.66		0628	1.90	1.54		0819	0.11	0.20
TH	1217	0.54	0.52	FR	1348	2.02	1.45	SA	1247	0.52	0.54	SU	1523	2.27	1.53
	1949	1.86	1.37		1934	0.62	0.62		2019	1.98	1.42		2056	0.57	0.61
3	0104	1.14	1.05	11	0203	2.09	1.48	19	0133	1.14	1.07	27	0318	2.10	1.54
	0712	1.77	1.47		0745	0.47	0.54		0755	1.86	1.53		0900	0.13	0.21
FR	1309	0.68	0.62	SA	1428	2.09	1.45	SU	1355	0.61	0.61	MO	1607	2.21	1.50
	2047	1.82	1.37		2011	0.63	0.64		2125	1.97	1.42		2138	0.65	0.68
4	0204	1.22	1.11	12	0238	2.11	1.49	20	0240	1.10	1.03	28	0356	2.05	1.53
	0821	1.71	1.48		0819	0.36	0.44		0923	1.88	1.54		0940	0.21	0.27
SA	1417	0.79	0.70	SU	1509	2.14	1.45	MO	1514	0.65	0.64	TU	1649	2.13	1.47
	2150	1.81	1.37		2049	0.66	0.69		2230	1.98	1.42		2219	0.76	0.76
5	0317	1.24	1.13	13	0313	2.11	1.50	21	0353	0.97	0.93	29	0431	1.98	1.52
	0933	1.70	1.47		0855	0.28	0.37		1041	1.95	1.55		1019	0.33	0.37
SU	1539	0.83	0.73	MO	1551	2.16	1.45	TU	1631	0.63	0.62	WE	1731	2.04	1.45
	2248	1.84	1.38		2128	0.74	0.77		2327	2.01	1.43	TH	2301	0.88	0.85
6	0437	1.17	1.10	14	0347	2.09	1.51	22	0503	0.76	0.76	30	0507	1.90	1.50
	1038	1.73	1.46		0934	0.26	0.33		1151	2.06	1.55		1059	0.48	0.48
MO	1645	0.81	0.71	TU	1637	2.16	1.44	WE	1737	0.59	0.58	TH	1814	1.95	1.43
	2336	1.89	1.40		2209	0.84	0.85	TH					2345	0.99	0.93
7	0534	1.05	1.01	15	0420	2.05	1.52	23	0019	2.05	1.45	31	0546	1.82	1.47
	1135	1.79	1.45		1016	0.28	0.34		0601	0.52	0.56		1141	0.64	0.59
TU	1736	0.76	0.68	WE	1725	2.13	1.44	TH	1253	2.17	1.56	FR	1900	1.87	1.42
○				TH	2252	0.94	0.94		1835	0.54	0.55				
8	0016	1.94	1.42	16	0453	2.01	1.53	24	0108	2.09	1.48				
	0613	0.90	0.91		1100	0.33	0.39		0651	0.31	0.38				
WE	1224	1.86	1.45	TH	1818	2.08	1.44	FR	1347	2.25	1.57				
	1819	0.70	0.65		2340	1.04	1.02		1926	0.52	0.54				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0032	1.08	0.99	9	0128	2.06	1.57	17	0116	0.97	0.90	25	0249	2.07	1.60
	0638	1.74	1.45		0711	0.38	0.40		0807	1.89	1.51		0832	0.25	0.29
SA	1229	0.79	0.71	SU	1410	2.26	1.58	MO	1342	0.78	0.75	TU	1539	2.28	1.60
	1954	1.81	1.42		1952	0.77	0.76		2055	1.96	1.49		2117	0.78	0.78
2	0124	1.14	1.01	10	0207	2.09	1.57	18	0218	0.90	0.83	26	0327	2.03	1.59
	0751	1.69	1.44		0748	0.27	0.31		0928	1.94	1.54		0911	0.34	0.36
SU	1332	0.92	0.80	MO	1451	2.31	1.60	TU	1459	0.86	0.80	WE	1617	2.21	1.58
	2054	1.78	1.42		2031	0.78	0.79		2156	1.96	1.50		2157	0.84	0.82
3	0223	1.14	1.01	11	0246	2.10	1.58	19	0326	0.78	0.73	27	0403	1.97	1.57
	0908	1.69	1.44		0828	0.22	0.25		1039	2.05	1.58		0949	0.46	0.46
MO	1455	0.99	0.84	TU	1534	2.32	1.60	WE	1615	0.87	0.81	TH	1655	2.12	1.56
	2154	1.80	1.44		2111	0.81	0.82		2253	1.98	1.52		2237	0.91	0.86
4	0333	1.09	0.98	12	0324	2.09	1.57	20	0433	0.61	0.60	28	0439	1.90	1.54
	1016	1.75	1.44		0910	0.22	0.25		1143	2.17	1.61		1027	0.60	0.56
TU	1610	0.99	0.85	WE	1620	2.30	1.58	TH	1721	0.84	0.80	FR	1733	2.04	1.55
	2246	1.84	1.46		2153	0.86	0.87	●	2345	2.02	1.55	●	2317	0.97	0.89
5	0438	0.98	0.91	13	0403	2.06	1.57	21	0532	0.44	0.45	29	0519	1.84	1.51
	1114	1.84	1.46		0954	0.27	0.31		1239	2.27	1.65		1108	0.75	0.69
WE	1707	0.95	0.83	TH	1708	2.23	1.56	FR	1818	0.79	0.77	SA	1813	1.96	1.53
	2330	1.91	1.49	●	2238	0.92	0.91						2359	1.02	0.91
6	0524	0.83	0.80	14	0444	2.02	1.56	22	0035	2.05	1.58	30	0610	1.78	1.48
	1203	1.94	1.49		1041	0.37	0.40		0623	0.30	0.33		1153	0.91	0.81
TH	1753	0.89	0.80	FR	1758	2.15	1.54	SA	1330	2.34	1.65	SU	1859	1.90	1.53
○					2327	0.97	0.93		1908	0.74	0.75				
7	0011	1.97	1.52	15	0534	1.96	1.54	23	0123	2.08	1.59				
	0600	0.67	0.67		1133	0.51	0.52		0709	0.22	0.26				
FR	1247	2.06	1.52	SA	1852	2.07	1.51	SU	1416	2.36	1.65				
	1834	0.83	0.78						1954	0.72	0.74				
8	0050	2.02	1.55	16	0019	0.99	0.93	24	0208	2.09	1.60				
	0635	0.52	0.53		0643	1.90	1.51		0752	0.21	0.25				
SA	1329	2.17	1.56	SU	1232	0.65	0.64	MO	1459	2.33	1.62				
	1913	0.79	0.76		1952	2.00	1.50		2037	0.73	0.75				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0044	1.04	0.91	9	0137	2.12	1.69	17	0155	0.73	0.65	25	0301	2.05	1.66
MO	0722	1.74	1.46		0721	0.27	0.25		0923	2.07	1.61		0846	0.50	0.49
	1247	1.05	0.92	TU	1433	2.47	1.78	WE	1440	1.08	0.99	TH	1548	2.29	1.67
	1954	1.86	1.53		2013	0.92	0.89		2120	2.01	1.63		2134	0.92	0.88
2	0134	1.04	0.89	10	0222	2.14	1.69	18	0257	0.66	0.60	26	0338	2.00	1.63
TU	0840	1.76	1.47		0806	0.23	0.22		1029	2.17	1.66		0924	0.60	0.57
	1358	1.15	1.00	WE	1519	2.46	1.76	TH	1552	1.11	1.04	FR	1623	2.22	1.66
	2053	1.85	1.55		2055	0.90	0.87		2216	2.02	1.65		2211	0.94	0.87
3	0229	1.00	0.86	11	0307	2.14	1.67	19	0402	0.57	0.53	27	0415	1.96	1.61
WE	0948	1.84	1.49		0852	0.26	0.26		1128	2.26	1.71		1001	0.71	0.67
	1517	1.20	1.04	TH	1605	2.41	1.73	FR	1659	1.09	1.04	SA	1657	2.16	1.66
	2149	1.89	1.58		2139	0.88	0.85		2310	2.04	1.67		2247	0.95	0.86
4	0329	0.92	0.80	12	0353	2.12	1.65	20	0503	0.48	0.46	28	0455	1.91	1.57
TH	1047	1.95	1.55		0939	0.34	0.35		1221	2.34	1.73		1039	0.85	0.78
	1625	1.19	1.05	FR	1653	2.33	1.70	SA	1758	1.04	1.01	SU	1732	2.09	1.65
	2239	1.94	1.61		2225	0.87	0.83	●				●	2325	0.95	0.85
5	0425	0.79	0.70	13	0444	2.07	1.62	21	0002	2.07	1.69	29	0545	1.87	1.54
FR	1138	2.08	1.61		1030	0.48	0.48		0556	0.41	0.41		1121	0.99	0.91
	1720	1.14	1.03	SA	1741	2.24	1.66	SU	1309	2.39	1.73	MO	1811	2.04	1.64
	2324	1.99	1.65	●	2314	0.86	0.80		1850	0.99	0.97				
6	0513	0.64	0.58	14	0543	2.02	1.58	22	0052	2.09	1.69	30	0006	0.95	0.83
SA	1223	2.22	1.68		1123	0.65	0.63		0643	0.38	0.39		0650	1.85	1.52
O	1807	1.08	1.00	SU	1831	2.15	1.62	MO	1353	2.40	1.72	TU	1209	1.14	1.04
									1936	0.94	0.93		1857	2.00	1.65
7	0008	2.04	1.67	15	0005	0.83	0.76	23	0139	2.09	1.69	31	0051	0.94	0.81
SU	0556	0.49	0.45		0656	1.98	1.56		0727	0.38	0.39		0804	1.88	1.53
	1306	2.34	1.73	MO	1222	0.82	0.77	TU	1434	2.38	1.70	WE	1306	1.27	1.15
	1850	1.02	0.96		1925	2.08	1.61		2018	0.92	0.90		1951	1.98	1.66
8	0052	2.08	1.69	16	0058	0.79	0.71	24	0222	2.08	1.68				
MO	0638	0.36	0.33		0812	2.00	1.57		0808	0.43	0.43				
	1349	2.43	1.76	TU	1328	0.97	0.90	WE	1512	2.34	1.68				
	1932	0.96	0.92		2022	2.03	1.61		2057	0.91	0.88				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0140	0.91	0.78	9	0255	2.22	1.76	17	0331	0.63	0.58	25	0352	2.03	1.64
	0913	1.96	1.57		0840	0.33	0.34		1106	2.28	1.73		0938	0.77	0.75
TH	1414	1.37	1.23	FR	1551	2.49	1.79	SA	1631	1.31	1.24	SU	1625	2.25	1.70
	2049	1.99	1.69		2124	0.84	0.79		2236	2.07	1.76		2215	0.88	0.84
2	0233	0.86	0.73	10	0348	2.20	1.72	18	0435	0.61	0.59	26	0432	2.01	1.61
	1013	2.08	1.65		0930	0.44	0.44		1159	2.33	1.73		1014	0.88	0.85
FR	1527	1.41	1.27	SA	1637	2.42	1.75	SU	1736	1.26	1.21	MO	1657	2.22	1.70
	2144	2.01	1.73		2211	0.76	0.72	●	2331	2.08	1.76	●	2251	0.85	0.80
3	0331	0.77	0.66	11	0444	2.16	1.67	19	0532	0.58	0.57	27	0519	1.99	1.58
	1106	2.21	1.73		1021	0.59	0.58		1248	2.37	1.73		1053	1.02	0.98
SA	1635	1.39	1.26	SU	1723	2.34	1.73	MO	1831	1.19	1.16	TU	1731	2.18	1.70
	2235	2.04	1.76	●	2258	0.70	0.65						2330	0.83	0.77
4	0427	0.65	0.56	12	0547	2.12	1.64	20	0024	2.09	1.75	28	0618	1.98	1.56
	1155	2.34	1.80		1113	0.77	0.74		0621	0.56	0.56		1136	1.17	1.10
SU	1734	1.33	1.22	MO	1808	2.25	1.70	TU	1332	2.38	1.71	WE	1809	2.14	1.72
○	2326	2.08	1.79		2347	0.65	0.60		1917	1.11	1.09				
5	0520	0.52	0.45	13	0655	2.11	1.62	21	0113	2.09	1.73	29	0012	0.82	0.75
	1242	2.45	1.84		1208	0.95	0.89		0706	0.56	0.56		0725	2.00	1.57
MO	1824	1.24	1.15	TU	1855	2.17	1.70	WE	1411	2.38	1.70	TH	1226	1.32	1.22
									1958	1.05	1.02		1853	2.11	1.73
6	0017	2.13	1.80	14	0037	0.63	0.57	22	0158	2.08	1.71	30	0057	0.81	0.73
	0611	0.40	0.35		0803	2.12	1.65		0747	0.57	0.58		0831	2.07	1.62
TU	1328	2.52	1.86	WE	1308	1.11	1.03	TH	1447	2.36	1.70	FR	1325	1.45	1.33
	1910	1.13	1.06		1947	2.11	1.71		2035	0.99	0.97		1947	2.08	1.75
7	0110	2.17	1.80	15	0129	0.62	0.56	23	0237	2.07	1.69				
	0700	0.32	0.29		0907	2.17	1.67		0825	0.62	0.61				
WE	1416	2.55	1.86	TH	1413	1.23	1.14	FR	1521	2.33	1.70				
	1955	1.03	0.97		2043	2.08	1.72		2109	0.95	0.92				
8	0203	2.21	1.79	16	0227	0.63	0.57	24	0315	2.05	1.66				
	0750	0.29	0.29		1008	2.22	1.70		0902	0.68	0.67				
TH	1503	2.53	1.83	FR	1522	1.30	1.22	SA	1553	2.29	1.70				
	2039	0.93	0.87		2140	2.06	1.74		2142	0.91	0.88				

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

July - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0148	0.79	0.70	9	0343	2.29	1.72	17	0409	0.74	0.73	25	0410	2.09	1.58
	0933	2.16	1.69		0920	0.51	0.53		1136	2.24	1.66		0951	0.88	0.88
SA	1432	1.53	1.39	SU	1617	2.45	1.74	MO	1712	1.38	1.32	TU	1625	2.27	1.68
	2046	2.07	1.79		2153	0.57	0.58		2304	2.03	1.75		2217	0.71	0.73
2	0245	0.74	0.66	10	0441	2.26	1.68	18	0511	0.73	0.72	26	0455	2.09	1.56
	1031	2.27	1.75		1009	0.65	0.66		1227	2.27	1.65		1029	1.00	0.99
SU	1544	1.54	1.41	MO	1700	2.38	1.73	TU	1812	1.28	1.25	WE	1657	2.24	1.70
	2146	2.08	1.82	MO	2238	0.50	0.52	MO				MO	2254	0.68	0.70
3	0347	0.66	0.60	11	0541	2.23	1.66	19	0000	2.04	1.73	27	0548	2.09	1.55
	1125	2.37	1.80		1059	0.83	0.80		0603	0.70	0.70		1110	1.15	1.11
MO	1654	1.48	1.37	TU	1741	2.30	1.73	WE	1310	2.30	1.64	TH	1729	2.20	1.72
MO	2246	2.11	1.85		2324	0.48	0.50		1858	1.17	1.16		2335	0.68	0.68
4	0450	0.56	0.51	12	0642	2.20	1.65	20	0051	2.05	1.70	28	0647	2.10	1.56
	1217	2.46	1.82		1150	1.00	0.95		0648	0.68	0.68		1156	1.30	1.23
TU	1755	1.36	1.27	WE	1824	2.23	1.73	TH	1347	2.31	1.64	FR	1804	2.16	1.74
	2348	2.16	1.86						1936	1.07	1.07				
5	0549	0.45	0.43	13	0011	0.51	0.51	21	0136	2.07	1.68	29	0020	0.69	0.68
	1308	2.51	1.82		0741	2.18	1.65		0728	0.67	0.68		0749	2.13	1.60
WE	1847	1.20	1.13	TH	1244	1.17	1.09	FR	1420	2.32	1.64	SA	1249	1.43	1.33
					1911	2.15	1.74		2009	0.97	0.99		1847	2.11	1.76
6	0050	2.21	1.85	14	0101	0.58	0.56	22	0216	2.08	1.65	30	0110	0.70	0.68
	0645	0.38	0.39		0840	2.17	1.66		0805	0.68	0.69		0851	2.17	1.64
TH	1358	2.54	1.80	FR	1342	1.30	1.21	SA	1452	2.31	1.65	SU	1350	1.52	1.40
	1935	1.03	0.98		2005	2.10	1.75		2039	0.89	0.91		1950	2.07	1.78
7	0149	2.26	1.82	15	0156	0.66	0.62	23	0253	2.09	1.63	31	0208	0.70	0.68
	0739	0.36	0.39		0940	2.18	1.66		0841	0.71	0.72		0954	2.23	1.68
FR	1447	2.53	1.77	SA	1448	1.39	1.30	SU	1523	2.30	1.66	MO	1500	1.55	1.43
	2021	0.85	0.82		2104	2.05	1.75		2110	0.81	0.84		2104	2.06	1.80
8	0246	2.29	1.77	16	0300	0.72	0.69	24	0330	2.10	1.60				
	0830	0.40	0.44		1040	2.20	1.66		0915	0.78	0.79				
SA	1533	2.50	1.75	SU	1600	1.42	1.34	MO	1554	2.29	1.67				
	2107	0.69	0.69		2205	2.03	1.76		2142	0.75	0.78				

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AUSTRALIA, SOUTH COAST - THE RIP

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

August - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0315	0.67	0.65	9	0524	2.28	1.64	17	0544	0.80	0.77	25	0521	2.17	1.53
	1055	2.29	1.70		1041	0.82	0.81		1240	2.16	1.55		1048	1.09	1.08
TU	1614	1.49	1.38	WE	1713	2.28	1.70	TH	1833	1.11	1.12	FR	1656	2.17	1.67
	2218	2.09	1.83		2258	0.36	0.42						2303	0.54	0.59
2	0427	0.60	0.59	10	0618	2.22	1.62	18	0032	1.99	1.62	26	0613	2.15	1.53
	1153	2.35	1.70		1128	0.98	0.95		0629	0.76	0.74		1133	1.21	1.18
WE	1724	1.33	1.26	TH	1753	2.20	1.70	FR	1316	2.19	1.56	SA	1726	2.12	1.70
○	2330	2.14	1.82		2343	0.45	0.49		1907	0.98	1.02		2348	0.58	0.61
3	0534	0.52	0.53	11	0711	2.16	1.60	19	0116	2.04	1.59	27	0711	2.14	1.55
	1246	2.40	1.68		1218	1.13	1.08		0709	0.72	0.72		1224	1.32	1.26
TH	1823	1.11	1.08	FR	1837	2.11	1.69	SA	1349	2.21	1.58	SU	1804	2.06	1.71
									1937	0.86	0.92				
4	0038	2.21	1.79	12	0030	0.57	0.58	20	0156	2.08	1.58	28	0039	0.63	0.65
	0633	0.45	0.48		0806	2.10	1.58		0745	0.71	0.72		0813	2.12	1.56
FR	1337	2.43	1.67	SA	1312	1.27	1.19	SU	1421	2.24	1.60	MO	1322	1.40	1.31
	1914	0.87	0.88		1929	2.03	1.69		2006	0.74	0.82		1911	2.01	1.70
5	0141	2.28	1.76	13	0123	0.70	0.68	21	0233	2.12	1.56	29	0139	0.68	0.69
	0728	0.43	0.47		0905	2.07	1.56		0820	0.72	0.74		0919	2.13	1.57
SA	1425	2.44	1.67	SU	1413	1.37	1.27	MO	1452	2.25	1.62	TU	1428	1.41	1.31
	2001	0.64	0.69		2032	1.96	1.68		2036	0.64	0.73		2043	1.99	1.71
6	0239	2.34	1.72	14	0229	0.81	0.77	22	0311	2.15	1.55	30	0252	0.70	0.70
	0819	0.46	0.51		1008	2.07	1.55		0854	0.77	0.80		1025	2.15	1.57
SU	1510	2.43	1.68	MO	1526	1.40	1.31	TU	1524	2.26	1.63	WE	1541	1.33	1.25
	2046	0.46	0.53		2139	1.93	1.67		2108	0.57	0.65		2208	2.02	1.71
7	0335	2.35	1.69	15	0344	0.85	0.81	23	0350	2.17	1.53	31	0410	0.67	0.67
	0908	0.55	0.58		1108	2.09	1.55		0930	0.85	0.88		1125	2.20	1.57
MO	1552	2.40	1.69	TU	1646	1.35	1.29	WE	1555	2.24	1.64	TH	1655	1.14	1.11
	2130	0.35	0.43		2243	1.93	1.66		2143	0.52	0.60	○	2324	2.10	1.71
8	0430	2.33	1.66	16	0451	0.84	0.80	24	0433	2.18	1.53				
	0955	0.67	0.69		1159	2.12	1.55		1007	0.96	0.97				
TU	1633	2.35	1.71	WE	1748	1.24	1.21	TH	1626	2.21	1.65				
●	2214	0.32	0.40	●	2341	1.95	1.64	●	2221	0.52	0.58				

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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0520	0.60	0.62	9	0635	2.10	1.53	17	0056	2.03	1.53	25	0641	2.11	1.52
	1219	2.24	1.57		1153	1.05	1.01		0648	0.80	0.77		1206	1.16	1.12
FR	1757	0.88	0.90	SA	1805	2.00	1.60	SU	1312	2.10	1.56	MO	1752	1.97	1.60
					2358	0.59	0.59		1900	0.70	0.75				
2	0032	2.21	1.69	10	0726	2.01	1.50	18	0136	2.11	1.54	26	0015	0.61	0.62
	0621	0.55	0.57		1244	1.17	1.09		0724	0.77	0.76		0742	2.06	1.51
SA	1309	2.28	1.58	SU	1857	1.90	1.58	MO	1346	2.13	1.58	TU	1302	1.19	1.12
	1849	0.61	0.67						1930	0.57	0.64		1912	1.92	1.58
3	0133	2.31	1.68	11	0050	0.75	0.70	19	0213	2.18	1.54	27	0119	0.71	0.71
	0716	0.52	0.55		0823	1.95	1.49		0759	0.76	0.77		0847	2.02	1.50
SU	1357	2.30	1.60	MO	1341	1.25	1.15	TU	1420	2.16	1.59	WE	1405	1.16	1.09
	1937	0.39	0.48		2004	1.83	1.57		2001	0.47	0.54		2046	1.92	1.58
4	0229	2.37	1.67	12	0155	0.88	0.80	20	0251	2.23	1.55	28	0234	0.77	0.75
	0806	0.53	0.57		0926	1.92	1.48		0834	0.79	0.81		0952	2.02	1.50
MO	1442	2.31	1.63	TU	1448	1.28	1.17	WE	1454	2.17	1.60	TH	1514	1.05	1.00
	2021	0.24	0.35		2117	1.81	1.55		2036	0.39	0.47		2208	1.99	1.60
5	0321	2.39	1.66	13	0316	0.94	0.84	21	0331	2.26	1.55	29	0354	0.78	0.75
	0853	0.58	0.61		1027	1.93	1.48		0911	0.84	0.87		1052	2.05	1.51
TU	1525	2.29	1.65	WE	1606	1.23	1.15	TH	1527	2.16	1.61	FR	1625	0.86	0.84
	2105	0.18	0.29		2224	1.83	1.54		2113	0.36	0.43	○	2321	2.11	1.62
6	0411	2.35	1.63	14	0427	0.94	0.84	22	0413	2.26	1.54	30	0506	0.74	0.72
	0937	0.67	0.70		1118	1.96	1.49		0949	0.91	0.94		1146	2.09	1.53
WE	1605	2.25	1.66	TH	1713	1.12	1.08	FR	1600	2.13	1.60	SA	1728	0.62	0.64
	2148	0.20	0.30		2323	1.88	1.53		2152	0.38	0.43				
7	0500	2.28	1.60	15	0523	0.90	0.82	23	0458	2.23	1.54				
	1022	0.79	0.79		1200	2.00	1.51		1031	1.01	1.01				
TH	1644	2.18	1.65	FR	1757	0.98	0.97	SA	1632	2.08	1.61				
○	2230	0.30	0.37	●				●	2235	0.43	0.47				
8	0547	2.19	1.57	16	0013	1.96	1.53	24	0547	2.17	1.53				
	1106	0.92	0.90		0608	0.84	0.79		1116	1.09	1.07				
FR	1723	2.10	1.63	SA	1237	2.05	1.53	SU	1706	2.03	1.61				
	2313	0.44	0.47		1830	0.84	0.86		2322	0.51	0.54				

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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 - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0025	2.24	1.64	9	0643	1.96	1.49	17	0114	2.17	1.58	25	0001	0.64	0.64
	0607	0.68	0.68		1217	1.03	0.94		0701	0.88	0.84		0715	2.02	1.51
SU	1237	2.13	1.56	MO	1830	1.79	1.49	TU	1309	2.04	1.60	WE	1246	0.94	0.87
	1822	0.39	0.44						1853	0.44	0.45		1929	1.88	1.49
2	0122	2.34	1.67	10	0017	0.80	0.72	18	0152	2.26	1.61	26	0105	0.78	0.75
	0701	0.64	0.65		0734	1.88	1.48		0738	0.85	0.84		0816	1.97	1.50
MO	1326	2.16	1.58	TU	1308	1.09	0.97	WE	1347	2.07	1.60	TH	1344	0.88	0.80
	1910	0.21	0.29		1939	1.73	1.47		1929	0.34	0.35		2052	1.92	1.51
3	0214	2.40	1.66	11	0118	0.94	0.82	19	0232	2.31	1.62	27	0219	0.88	0.83
	0750	0.62	0.64		0832	1.83	1.47		0815	0.84	0.84		0918	1.95	1.51
TU	1412	2.18	1.61	WE	1404	1.10	0.97	TH	1426	2.08	1.60	FR	1448	0.77	0.71
	1955	0.12	0.21		2054	1.73	1.45		2007	0.28	0.29		2207	2.02	1.56
4	0302	2.39	1.64	12	0236	1.03	0.88	20	0312	2.33	1.63	28	0336	0.92	0.86
	0835	0.64	0.66		0932	1.82	1.47		0853	0.85	0.85		1016	1.96	1.53
WE	1456	2.17	1.62	TH	1509	1.07	0.95	FR	1503	2.08	1.60	SA	1554	0.61	0.58
	2038	0.12	0.20		2202	1.78	1.46		2047	0.27	0.28		2313	2.15	1.61
5	0348	2.34	1.62	13	0353	1.05	0.91	21	0355	2.31	1.61	29	0447	0.90	0.85
	0919	0.69	0.70		1025	1.84	1.49		0933	0.88	0.88		1110	1.99	1.56
TH	1538	2.13	1.62	FR	1616	0.98	0.89	SA	1541	2.06	1.58	SU	1658	0.44	0.43
	2121	0.19	0.25		2301	1.86	1.48		2130	0.30	0.32				
6	0432	2.26	1.58	14	0454	1.03	0.91	22	0441	2.26	1.60	30	0012	2.27	1.65
	1002	0.76	0.77		1111	1.89	1.52		1016	0.92	0.90		0549	0.85	0.82
FR	1617	2.07	1.59	SA	1707	0.85	0.80	SU	1620	2.01	1.56	MO	1203	2.03	1.59
7	2202	0.32	0.35		2350	1.96	1.51		2216	0.39	0.40		1754	0.28	0.30
8	0515	2.16	1.56	15	0542	0.98	0.89	23	0529	2.18	1.57	31	0105	2.35	1.67
	1045	0.86	0.83		1152	1.95	1.55		1102	0.95	0.91		0644	0.80	0.78
SA	1656	1.98	1.56	SU	1745	0.71	0.69	MO	1705	1.96	1.54	TU	1254	2.06	1.61
	2244	0.47	0.47						2305	0.50	0.51		1844	0.18	0.21
9	0558	2.05	1.52	16	0034	2.07	1.55	24	0620	2.10	1.53				
	1129	0.95	0.90		0623	0.93	0.86		1152	0.96	0.90				
SU	1738	1.88	1.52	MO	1231	2.00	1.58	TU	1807	1.90	1.51				
	2328	0.64	0.59		1819	0.57	0.56								

The Rip

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

AUSTRALIA, SOUTH COAST - THE RIP

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

November - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1	0154	2.38	1.67	9	0037	0.99	0.86	17	0212	2.37	1.71	25	0200	0.99	0.92
	0732	0.75	0.75		0732	1.82	1.50		0755	0.92	0.87		0842	1.94	1.55
WE	1343	2.08	1.61	TH	1318	0.92	0.78	FR	1400	2.04	1.63	SA	1421	0.55	0.48
	1930	0.14	0.18		2024	1.72	1.41		1943	0.23	0.20		2156	2.07	1.57
2	0240	2.37	1.66	10	0143	1.11	0.95	18	0255	2.38	1.70	26	0312	1.06	0.98
	0817	0.73	0.73		0829	1.80	1.51		0835	0.87	0.83		0940	1.94	1.58
TH	1430	2.07	1.61	FR	1410	0.90	0.75	SA	1444	2.05	1.61	SU	1524	0.47	0.42
	2013	0.17	0.20		2132	1.78	1.43		2028	0.23	0.21		2257	2.17	1.62
3	0323	2.31	1.62	11	0258	1.18	1.02	19	0340	2.35	1.67	27	0423	1.07	1.00
	0900	0.73	0.73		0925	1.81	1.53		0917	0.83	0.79		1036	1.95	1.61
FR	1512	2.03	1.59	SA	1507	0.84	0.71	SU	1529	2.03	1.58	MO	1628	0.39	0.36
	2056	0.26	0.28		2231	1.88	1.48		2115	0.28	0.28	MO	2354	2.25	1.65
4	0404	2.24	1.59	12	0408	1.19	1.05	20	0426	2.28	1.63	28	0528	1.03	0.98
	0942	0.76	0.74		1016	1.85	1.56		1001	0.80	0.75		1131	1.98	1.62
SA	1552	1.97	1.55	SU	1604	0.75	0.64	MO	1617	2.00	1.55	TU	1727	0.31	0.30
	2137	0.38	0.37		2322	2.00	1.55	MO	2204	0.39	0.39				
5	0443	2.15	1.56	13	0506	1.16	1.04	21	0513	2.20	1.59	29	0046	2.31	1.65
	1023	0.81	0.76		1103	1.90	1.60		1048	0.77	0.71		0624	0.96	0.93
SU	1632	1.89	1.51	MO	1653	0.63	0.55	TU	1712	1.95	1.50	WE	1225	2.00	1.63
MO	2217	0.52	0.49						2255	0.54	0.53		1820	0.26	0.27
6	0522	2.05	1.54	14	0007	2.12	1.61	22	0600	2.12	1.55	30	0134	2.32	1.64
	1105	0.86	0.78		0553	1.10	1.01		1137	0.73	0.66		0714	0.88	0.86
MO	1714	1.82	1.47	TU	1147	1.94	1.62	WE	1820	1.91	1.47	TH	1317	2.01	1.61
	2259	0.68	0.61		1737	0.50	0.43		2350	0.70	0.67		1908	0.25	0.26
7	0601	1.96	1.52	15	0049	2.23	1.66	23	0650	2.04	1.53				
	1147	0.90	0.79		0636	1.04	0.96		1228	0.68	0.60				
TU	1805	1.75	1.44	WE	1231	1.98	1.63	TH	1936	1.92	1.48				
	2344	0.84	0.74		1818	0.38	0.32								
8	0643	1.88	1.50	16	0130	2.32	1.70	24	0052	0.87	0.81				
	1231	0.92	0.79		0716	0.97	0.92		0744	1.98	1.53				
WE	1911	1.71	1.41	TH	1315	2.02	1.64	FR	1323	0.61	0.54				
					1900	0.28	0.24		2049	1.98	1.51				

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Datum is Lowest Astronomical Tide

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

AUSTRALIA, SOUTH COAST - THE RIP

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

December - 2023

	Time	RB	NB		Time	RB	NB		Time	RB	NB		Time	RB	NB
1 FR	0219	2.31	1.61	9 SA	0049	1.14	1.02	17 SU	0239	2.38	1.68	25 MO	0243	1.16	1.07
	0759	0.82	0.80		0725	1.86	1.54		0817	0.84	0.78		0905	1.93	1.60
	1405	2.00	1.59		1320	0.75	0.62		1430	2.05	1.62		1455	0.45	0.40
	1952	0.28	0.30		2052	1.82	1.43		2016	0.22	0.22		2236	2.12	1.57
2 SA	0300	2.27	1.59	10 SU	0151	1.26	1.11	18 MO	0326	2.35	1.64	26 TU	0353	1.19	1.11
	0841	0.79	0.76		0821	1.85	1.56		0901	0.73	0.68		1004	1.93	1.62
	1449	1.97	1.56		1410	0.73	0.60		1522	2.05	1.58		1601	0.44	0.42
	2034	0.35	0.35		2152	1.91	1.49		2105	0.29	0.30		2333	2.17	1.58
3 SU	0338	2.21	1.56	11 MO	0301	1.32	1.17	19 TU	0411	2.30	1.60	27 WE ○	0503	1.16	1.10
	0921	0.77	0.73		0918	1.86	1.59		0946	0.63	0.59		1102	1.93	1.62
	1529	1.92	1.52		1506	0.67	0.56		1616	2.03	1.53		1704	0.42	0.41
	2114	0.44	0.43		2247	2.03	1.57		2155	0.41	0.42				
4 MO	0413	2.14	1.55	12 TU	0412	1.32	1.18	20 WE ●	0455	2.23	1.57	28 TH	0026	2.20	1.56
	0959	0.76	0.71		1011	1.89	1.63		1032	0.54	0.51		0605	1.08	1.04
	1608	1.86	1.48		1603	0.59	0.49		1716	2.00	1.49		1200	1.94	1.61
	2153	0.56	0.53		2336	2.15	1.63		2246	0.57	0.56		1800	0.39	0.40
5 TU ●	0447	2.07	1.54	13 WE ●	0514	1.27	1.15	21 TH	0539	2.15	1.56	29 FR	0115	2.23	1.55
	1036	0.77	0.69		1103	1.92	1.66		1119	0.48	0.45		0656	0.98	0.95
	1649	1.81	1.45		1657	0.48	0.39		1821	1.99	1.47		1254	1.94	1.58
	2232	0.70	0.64						2338	0.75	0.71		1849	0.38	0.40
6 WE	0521	2.00	1.53	14 TH	0022	2.25	1.68	22 FR	0624	2.07	1.55	30 SA	0158	2.23	1.53
	1113	0.77	0.68		0606	1.19	1.08		1208	0.44	0.40		0741	0.88	0.87
	1736	1.77	1.41		1154	1.95	1.67		1929	2.00	1.49		1343	1.94	1.55
	2313	0.85	0.77		1748	0.36	0.30						1934	0.39	0.41
7 TH	0556	1.94	1.53	15 FR	0107	2.33	1.70	23 SA	0035	0.92	0.85	31 SU	0236	2.21	1.51
	1152	0.77	0.66		0651	1.08	0.99		0712	2.01	1.56		0820	0.80	0.79
	1836	1.75	1.39		1246	1.99	1.67		1258	0.42	0.38		1427	1.92	1.51
	2357	1.00	0.90		1838	0.27	0.22		2034	2.03	1.52		2015	0.42	0.44
8 FR	0637	1.90	1.53	16 SA	0153	2.37	1.70	24 SU	0137	1.06	0.98				
	1234	0.76	0.64		0734	0.96	0.89		0806	1.96	1.58				
	1945	1.76	1.39		1338	2.03	1.65		1353	0.43	0.39				
					1927	0.22	0.20		2136	2.08	1.55				

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Datum is Lowest Astronomical Tide

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

AUSTRALIA, SOUTH COAST - THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

January - 2023

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 0302 0906 1610 2224	0548 1150 1853	3.65 -5.47 3.45	9 0510 1115 1549 2248	0735 1347 1852	4.19 -3.97 2.63 -4.94	17 0247 0843 1555 2220	0531 1134 1851 0039	3.32 -5.32 3.43 -3.24	25 0540 1149 1702 2355	0810 1438 1949	4.51 -4.70 3.58 -5.96
2 0350 0944 1702 2338	0635 1234 1947	-3.78 3.24 -5.30 3.44	10 0542 1150 1634 2326	0811 1427 1931	4.26 -4.20 2.86 -5.00	18 0329 0913 1644 2334	0609 1212 1947	2.90 -5.33 3.51	26 0617 1239 1804	0853 1527 2047	4.48 -5.26 3.82 -5.79
3 0446 1026 1756	0731 1324 2042	-3.31 2.72 -5.04 3.50	11 0610 1223 1717	0844 1503 2009	4.27 -4.39 3.03 -4.98	19 0421 0950 1741	0657 1302 2050	2.37 -5.26 3.67	27 0651 1326 1904	0931 1611 2143	4.37 -5.73 3.92 -5.42
4 0558 1112 1850	0258 0843 1420 2138	-2.99 2.19 -4.78 3.61	12 0637 1256 1800	0244 0913 1536 2046	4.23 -4.57 3.13 -4.88	20 0555 0533 1042 1847	0259 0806 1403 2154	-2.45 1.80 -5.18 3.90	28 0124 0725 1412 2004	0404 1007 1654 2234	4.20 -6.02 3.92 -4.93
5 0726 1206 1943	0408 1000 1524 2231	-2.91 1.86 -4.60 3.77	13 0701 1328 1843	0317 0940 1610 2126	4.15 -4.75 3.21 -4.70	21 0712 1154 1957	0420 0943 2255	-2.49 1.56 -5.18 4.14	29 0204 0757 1457 2102	0445 1042 1737 2325	3.97 -6.09 3.85 -4.41
6 0847 1305 2034	0513 1111 1626 2320	-3.09 1.82 -4.57 3.94	14 0726 1401 1929	0350 1006 1644 2208	4.03 -4.93 3.27 -4.44	22 0849 1320 2105	0534 1117 2355	-2.95 1.90 -5.33 4.33	30 0244 0831 1540 2202	0525 1119 1821	3.66 -5.94 3.73
7 0948 1404 2123	0609 1210 1722	-3.40 2.02 -4.67	15 0750 1435 2019	0422 1032 1721 2253	3.86 -5.09 3.32 -4.11	23 0417 0959 1441 2207	0634 1234 1738	-3.56 2.57 -5.62	31 0324 0905 1624 2303	0604 1158 1907	-3.90 3.27 3.60
8 0433 1036 1459 2207	0006 0655 1302 1810	4.08 -3.71 2.33 -4.81	16 0211 0815 1513 2115	0455 1101 1803 2343	3.63 -5.23 3.37 -3.70	24 0501 1057 1555 2304	0051 0724 1340 1846	4.47 -4.13 3.17 -5.88			

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 - 2023

Slack Time Maximum Time Rate			Slack Time Maximum Time Rate			Slack Time Maximum Time Rate			Slack Time Maximum Time Rate		
1		0115 -3.41	9		0156 4.07	17		0114 -2.95	25		0028 0307 4.18
WE	0408	0646 2.76	TH	0541	0816 -4.49	FR	0349	0623 2.55	SA	0615	0859 -6.22
	0940	1243 -5.15		1202	1444 3.32		0914	1228 -5.43		1304	1544 4.31
	1710	1957 3.47		1714	1959 -4.85		1706	2011 3.57		1902	2136 -5.22
				2346							
2	0007	0215 -2.93	10		0230 4.08	18	0018	0222 -2.49	26	0109	0347 4.03
	0502	0739 2.15		0604	0842 -4.82		0452	0721 1.98		0649	0934 -6.39
TH	1020	1334 -4.67	FR	1232	1515 3.54	SA	1008	1333 -5.10	SU	1345	1625 4.26
	1800	2051 3.38		1757	2039 -4.85		1816	2127 3.62		1953	2221 -4.86
3	0116	0323 -2.54	11	0019	0302 4.03	19	0140	0342 -2.37	27	0147	0424 3.81
	0617	0856 1.58		0626	0908 -5.13		0628	0908 1.61		0722	1008 -6.31
FR	1110	1436 -4.27	SA	1302	1545 3.69	SU	1132	1451 -4.85	MO	1424	1704 4.13
	1858	2151 3.39		1839	2118 -4.75		1935	2238 3.79		2042	2304 -4.47
4	0225	0435 -2.48	12	0051	0333 3.93	20	0251	0504 -2.86	28	0222	0459 3.54
	0758	1021 1.35		0649	0932 -5.40		0821	1103 2.06		0754	1044 -6.00
SA	1214	1551 -4.07	SU	1334	1616 3.79	MO	1314	1618 -4.89	TU	1502	1742 3.94
	1959	2252 3.49		1923	2158 -4.57		2051	2343 3.99		2129	2349 -4.06
5	0325	0541 -2.82	13	0124	0404 3.79	21	0345	0607 -3.65			
	0920	1137 1.58		0713	0958 -5.61		0940	1226 2.90			
SU	1328	1700 -4.12	MO	1407	1650 3.84	TU	1446	1740 -5.21			
	2057	2346 3.67		2009	2241 -4.30		2157				
6	0411	0631 -3.30	14	0157	0436 3.59	22		0043 4.16			
	1014	1240 2.08		0739	1026 -5.74		0428	0659 -4.42			
MO	1437	1755 -4.34	TU	1442	1726 3.84	WE	1040	1330 3.56			
O	2148			2059	2325 -3.92		1603	1851 -5.52			
							2254				
7		0035 3.85	15	0230	0509 3.33	23		0136 4.26			
	0447	0711 -3.75		0806	1058 -5.77		0506	0744 -5.15			
TU	1055	1329 2.60	WE	1523	1809 3.76	TH	1132	1419 3.99			
	1537	1839 -4.58		2156			1709	1952 -5.62			
	2233						2344				
8		0118 3.99	16		0015 -3.46	24		0224 4.26			
	0516	0745 -4.14		0306	0543 3.00		0542	0823 -5.78			
WE	1130	1409 3.01	TH	0837	1138 -5.67	FR	1220	1502 4.22			
	1628	1920 -4.76		1610	1903 3.64		1808	2047 -5.50			
	2311			2301							

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 - 2023

Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate														
1 WE	0257	0532	3.19	9 TH	0432	0707	-4.22	17 FR	0251	0523	2.92	25 SA	0500	0746	-6.10	2 TH	0335	0607	2.76	10 FR	0456	0735	-4.69	18 SA	0335	0605	2.52	26 SU	0535	0823	-6.35				
	0827	1122	-5.55		0566	0842	-3.77		0812	1114	-5.59		1151	1430	4.56		0900	1203	-5.02		1127	1409	3.76		0857	1209	-5.16		1231	1510	4.58				
	1540	1822	3.71		1626	1908	-4.46		1542	1829	3.70		1804	2038	-5.09		1620	1907	3.46		1711	1950	-4.66		1639	1938	3.45		1850	2121	-4.95				
	2218				2253				2235								2314				2330				2344										
3 FR	0418	0650	-3.05	11 SA	0519	0802	-5.12	19 SU	0440	0714	2.03	27 MO	0049	0328	3.72	4 SA	0018	0231	-2.50	12 SU	0004	0244	3.77	20 MO	0058	0310	-2.75	28 TU	0125	0401	3.54				
	0938	1251	-4.46		1158	1440	4.03		1005	1321	-4.67		0610	0858	-6.35		0519	0755	1.56		0544	0828	-5.48		0621	0914	1.93		0643	0934	-6.11				
	1708	2000	3.21		1753	2031	-4.74		1750	2104	3.36		1309	1549	4.48		1025	1351	-3.95		1229	1511	4.20		1143	1449	-4.31		1345	1624	4.31				
													1933	2201	-4.74		1806	2108	3.04		1834	2110	-4.72		1915	2223	3.47		2014	2239	-4.47				
5 SU	0133	0346	-2.22	13 MO	0038	0314	3.68	21 TU	0205	0429	-3.27	29 WE	0200	0432	3.31	6 MO	0240	0501	-2.50	14 TU	0111	0344	3.56	22 WE	0259	0533	-4.08	30 TH	0233	0503	3.03				
	0701	0934	1.20		0610	0854	-5.75		0807	1100	2.61		0717	1010	-5.73		0844	1106	1.45		0636	0922	-5.92		0921	1213	3.41		0750	1047	-5.25				
	1133	1509	-3.58		1302	1543	4.28		1330	1624	-4.37		1420	1700	4.09		1302	1631	-3.56		1336	1617	4.27		1500	1746	-4.72		1455	1736	3.83				
	1917	2226	3.09		1915	2149	-4.59		2036	2333	3.66		2054	2319	-4.15		2027	2330	3.29		1958	2229	-4.35		2144				2136						
7 TU	0329	0557	-3.10	15 WE	0143	0416	3.40	23 TH	0343	0625	-4.88	31 FR	0001	0374	-3.74	8 WE	0404	0635	-3.69	16 TH	0216	0448	3.20	24 FR	0423	0708	-5.58	3 TH	0335	0607	2.76	10 FR	0456	0735	-4.69
	0942	1213	2.13		0705	0953	-5.95		1018	1305	3.99		0308	0537	2.66		0900	1203	-5.02		0736	1029	-5.85		0857	1209	-5.16		1127	1409	3.76				
	1426	1735	-3.81		1414	1655	4.16		1612	1853	-5.01		0824	1128	-4.73		1426	1735	-3.81		1455	1737	3.97		1639	1938	3.45		1711	1950	-4.66				
	2126				2045	2311	-4.00		2240				1533	1816	3.51		2126				2137	2357	-3.59		2235			2330							
9 WE	0102	0368		17 TH	0102	0368		25 FR	0251	0523	2.92	3 TH	0335	0607	2.76	10 FR	0456	0735	-4.69	18 SA	0335	0605	2.52	26 SU	0535	0823	-6.35	4 SA	0018	0231	-2.50	12 SU	0004	0244	3.77
	0827	1122	-5.55		0566	0842	-3.77		0812	1114	-5.59		1151	1430	4.56		1620	1907	3.46		1711	1950	-4.66		1850	2121	-4.95		1915	2223	3.47		2014	2239	-4.47
	1540	1822	3.71		1626	1908	-4.46		1542	1829	3.70		1804	2038	-5.09		2027	2330	3.29		2137	2357	-3.59		2235				2330						
	2218				2253				2235																										

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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate			
1 SA		0048	-3.26	9 SU		0149	3.40	17 MO		0131	-3.38	25 TU		0028	0307	3.36		
	0349	0618	2.19			0428	0713		-5.37		0454		0745	2.25		0531	0823	-5.98
	0903	1215	-4.18			1119	1401		4.46		1028		1325	-4.10		1231	1510	4.57
	1615	1906	3.15			1745	2018		-4.53		1728		2039	3.20		1910	2136	-4.57
	2318					2347												
2 SU		0142	-2.77	10 MO		0222	3.39	18 TU		0011	0238	-3.49	26 WE		0103	0339	3.23	
	0444	0719	1.64			0458	0744		-5.72		0628	0926		2.57		0607	0901	-5.69
	0954	1314	-3.62			1154	1435		4.60		1211	1456		-3.77		1306	1545	4.40
	1709	2019	2.82			1825	2058		-4.56		1853	2203		3.22		1946	2213	-4.39
3 MO	0023	0248	-2.46	11 TU	0023	0253	3.34	19 WE	0111	0349	-3.93	27 TH	0137	0409	3.06			
	0615	0855	1.34			0529	0816		-5.93		0751		1047	3.23		0642	0937	-5.31
	1109	1426	-3.14			1230	1511		4.61		1352		1628	-3.87		1340	1621	4.18
	1820	2149	2.74			1906	2137		-4.47		2016		2315	3.34		2022	2250	-4.16
4 TU	0127	0401	-2.62	12 WE	0057	0324	3.26	20 TH	0206	0451	-4.59	28 FR	0211	0441	2.83			
	0752	1032	1.71			0602	0851		-5.99		0855		1146	3.84		0717	1015	-4.88
	1248	1554	-2.97			1309	1549		4.51		1512		1743	-4.20		1414	1655	3.92
	1943	2300	2.90			1949	2217		-4.28		2125					2100	2329	-3.86
5 WE	0219	0459	-3.17	13 TH	0131	0357	3.16	21 FR		0015	3.45	29 SA	0247	0517	2.53			
	0852	1135	2.48			0637	0928		-5.89		0253		0542	-5.25		0755	1056	-4.41
	1421	1710	-3.26			1349	1629		4.31		0949		1232	4.30		1449	1732	3.60
	2052	2352	3.10			2033	2258		-4.02		1614		1844	-4.48		2139		
6 TH	0258	0540	-3.80	14 FR	0206	0433	2.99	22 SA		0106	3.51	30 SU		0010	-3.55			
	0934	1219	3.22			0716	1012		-5.62		0337		0627	-5.76		0330	0602	2.18
	1528	1806	-3.72			1433	1713		4.03		1035		1315	4.59		0839	1145	-3.90
	2145					2121	2343		-3.75		1706		1935	-4.64		1527	1813	3.21
7 FR		0036	3.27	15 SA	0248	0515	2.74	23 SU		0151	3.50							
	0329	0612	-4.39			0802	1103		-5.18		0416	0708	-6.05					
	1011	1254	3.78			1521	1805		3.69		1116	1355	4.71					
	1619	1853	-4.12			2213					1751	2019	-4.70					
8 SA	2230								2350									
		0114	3.37	16 SU		0033	-3.51	24 MO		0232	3.45							
	0359	0643	-4.92			0341	0615		2.43		0423	0708	-5.58					
	1045	1327	4.19			0903	1208		-4.64		0454	0746	-6.12					
1703	1937	-4.38			1618	1915	3.38			1154	1434	4.69						
	2309				2310				1832	2059	-4.67							

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

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

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

AUSTRALIA, SOUTH COAST - THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

May - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1		0055	-3.26	9		0156	2.99	17		0203	-4.30	25		0043	0318 2.97
MO	0425	0703	1.85	TU	0414	0704	-5.85	WE	0620	0916	3.19	TH	0535	0832	-5.26
	0937	1243	-3.35		1122	1404	4.77		1235	1459	-3.42		1232	1512	4.37
	1612	1912	2.78		1815	2040	-4.32		1827	2131	2.94		1921	2149	-4.29
	2311														
2		0147	-3.10	10		0005	0232 3.03	18		0018	0306 -4.57	26		0118	0352 2.87
TU	0537	0823	1.81	WE	0454	0745 -5.98		TH	0727	1020 3.64		FR	0614	0910 -4.95	
	1058	1353	-2.82		1204	1446 4.71			1402	1622 -3.50			1306	1548 4.18	
	1712	2046	2.48		1856	2120 -4.32			1952	2243 2.91			1954	2224 -4.17	
3		0001	0245 -3.18	11		0043	0309 3.03	19		0112	0406 -4.95	27		0154	0427 2.72
WE	0653	0946 2.25		TH	0536	0829 -5.93		FR	0825	1111 4.05		SA	0653	0949 -4.59	
	1237	1516 -2.54			1248	1528 4.56			1511	1729 -3.78			1339	1622 3.96	
	1839	2203 2.43			1938	2202 -4.26			2103	2344 2.93			2026	2258 -4.05	
4		0050	0339 -3.52	12		0122	0350 2.99	20		0203	0500 -5.32	28		0232	0506 2.54
TH	0751	1045 2.96		FR	0621	0915 -5.68		SA	0915	1157 4.38		SU	0736	1031 -4.19	
	1407	1636 -2.76			1332	1611 4.33			1606	1824 -4.06			1412	1656 3.70	
	2006	2305 2.52			2021	2244 -4.19			2200				2059	2333 -3.94	
5		0135	0428 -4.03	13		0205	0436 2.89	21			0038 2.98	29		0314	0552 2.39
FR	0838	1130 3.61		SA	0712	1008 -5.27		SU	0250	0548 -5.58		MO	0826	1120 -3.74	
	1514	1741 -3.28			1418	1658 4.03			1000	1240 4.57			1446	1732 3.37	
	2111	2354 2.66			2103	2327 -4.14			1653	1912 -4.25			2132		
									2248						
6		0217	0508 -4.58	14		0255	0534 2.77	22			0125 3.02	30			0009 -3.87
SA	0921	1208 4.12		SU	0813	1109 -4.76		MO	0335	0633 -5.69		TU	0402	0646 2.32	
O	1605	1831 -3.74			1506	1752 3.71			1041	1320 4.64			0929	1215 -3.25	
	2202				2147				1734	1955 -4.36			1525	1813 2.95	
									2330				2207		
7			0039 2.80	15			0014 -4.12	23			0207 3.04	31			0048 -3.86
SU	0257	0547 -5.11		MO	0355	0644 2.71		TU	0416	0714 -5.66		WE	0457	0750 2.47	
	1001	1246 4.48			0929	1216 -4.20			1119	1359 4.61			1046	1321 -2.76	
	1650	1916 -4.06			1600	1855 3.39			1812	2034 -4.40			1615	1916 2.47	
	2246				2234								2245		
8		0119	2.91	16			0105 -4.16	24		0008	0245 3.03				
MO	0335	0625 -5.55		TU	0506	0801 2.84		WE	0456	0753 -5.51					
	1041	1325 4.70			1058	1333 -3.69			1156	1437 4.51					
	1733	1959 -4.25			1705	2008 3.10			1847	2112 -4.37					
	2327				2325										

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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 TH		0133	-3.93	9 FR	0031	0305	3.03	17 SA	0020	0324	-5.01	25 SU	0136	0415	2.85
	0554	0856	2.85		0524	0820	-5.84		0751	1036	4.01		0638	0929	-4.46
	1215	1436	-2.42		1235	1514	4.52		1457	1709	-3.38		1312	1557	3.99
	1727	2042	2.10		1924	2144	-4.46		2035	2309	2.35		1951	2225	-4.36
	2327														
2 FR		0222	-4.11	10 SA	0117	0357	3.12	18 SU	0115	0422	-5.07	26 MO	0213	0454	2.84
	0650	0954	3.37		0622	0916	-5.54		0841	1124	4.21		0725	1011	-4.14
	1340	1556	-2.45		1321	1601	4.31		1551	1805	-3.64		1343	1629	3.80
	1901	2154	1.95		2002	2226	-4.62		2137				2017	2254	-4.43
3 SA	0014	0314	-4.42	11 SU	0207	0453	3.16	19 MO		0007	2.41	27 TU	0250	0535	2.85
	0743	1042	3.86		0724	1014	-5.08		0208	0516	-5.14		0818	1057	-3.78
	1450	1708	-2.85		1406	1649	4.06		0928	1209	4.33		1416	1701	3.54
	2025	2258	1.98		2039	2308	-4.77		1636	1853	-3.86		2043	2324	-4.51
4 SU	0104	0406	-4.82	12 MO	0300	0550	3.19	20 TU		0057	2.54	28 WE	0331	0621	2.92
	0833	1126	4.26		0834	1114	-4.54		0258	0606	-5.18		0917	1149	-3.38
	1546	1805	-3.33		1452	1739	3.78		1011	1252	4.40		1452	1736	3.19
	2128	2354	2.16		2117	2351	-4.89		1716	1935	-4.03		2112	2357	-4.59
5 MO	0156	0456	-5.25	13 TU	0358	0649	3.24	21 WE		0143	2.68	29 TH	0414	0712	3.06
	0922	1210	4.55		0951	1219	-3.99		0346	0651	-5.18		1025	1249	-2.95
	1634	1853	-3.70		1542	1832	3.44		1052	1333	4.40		1535	1818	2.73
	2219				2157				1753	2014	-4.14		2142		
6 TU		0044	2.41	14 WE		0037	-4.97	22 TH		0224	2.79	30 FR		0036	-4.66
	0247	0545	-5.63		0458	0748	3.36		0430	0732	-5.10		0503	0808	3.28
	1010	1255	4.71		1114	1333	-3.53		1131	1412	4.36		1142	1356	-2.55
	1719	1937	-3.96		1641	1934	3.04		1826	2051	-4.21		1631	1914	2.18
	2304			2240								2218			
7 WE		0130	2.66	15 TH		0128	-4.99	23 FR	0026	0303	2.85				
	0339	0635	-5.88		0558	0848	3.54		0513	0811	-4.96				
	1059	1341	4.74		1238	1449	-3.25		1206	1449	4.27				
	1802	2020	-4.15		1754	2047	2.66		1856	2125	-4.26				
	2347			2328											
8 TH		0217	2.88	16 FR		0224	-4.99	24 SA	0101	0339	2.86				
	0430	0726	-5.96		0656	0944	3.77		0555	0850	-4.73				
	1147	1428	4.67		1353	1603	-3.21		1240	1524	4.14				
	1843	2102	-4.30		1918	2203	2.42		1925	2156	-4.30				

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

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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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 SA		0122	-4.73	9 SU	0110	0400	3.55	17 MO	0033	0350	-4.64	25 TU	0144	0431	3.33
	0556	0904	3.57		0632	0917	-5.49		0809	1055	3.85		0716	0954	-4.24
	1303	1509	-2.32		1310	1552	4.32		1530	1744	-3.13		1321	1606	3.86
	1747	2034	1.72		1933	2206	-5.29		2111	2335	1.96		1934	2215	-4.97
	2302														
2 SU		0215	-4.85	10 MO	0201	0451	3.64	18 TU	0133	0452	-4.62	26 WE	0218	0507	3.4
	0654	0959	3.89		0737	1014	-5.01		0901	1145	3.97		0805	1037	-3.96
	1418	1627	-2.43		1354	1637	4.11		1618	1834	-3.45		1353	1637	3.65
	1920	2152	1.55		2007	2245	-5.55		2208				1958	2243	-5.11
	2359														
3 MO O		0314	-5.04	11 TU	0252	0540	3.66	19 WE		0033	2.21	27 TH	0254	0545	3.44
	0753	1051	4.19		0844	1111	-4.47		0232	0548	-4.70		0858	1124	-3.62
	1522	1735	-2.85		1437	1721	3.84		0950	1233	4.08		1428	1709	3.35
	2043	2304	1.71		2042	2325	-5.66		1658	1916	-3.74		2024	2315	-5.20
4 TU	0104	0416	-5.30	12 WE	0343	0629	3.64	20 TH		0124	2.51	28 FR	0334	0628	3.48
	0852	1143	4.42		0954	1212	-3.96		0326	0635	-4.80		0957	1217	-3.22
	1616	1830	-3.33		1522	1807	3.48		1033	1316	4.16		1505	1744	2.95
	2147				2119				1732	1953	-3.99		2053	2351	-5.23
5 WE		0011	2.13	13 TH		0008	-5.58	21 FR		0208	2.78	29 SA	0419	0719	3.51
	0212	0517	-5.59		0434	0720	3.62		0416	0718	-4.84		1106	1318	-2.76
	0950	1235	4.57		1105	1317	-3.53		1113	1357	4.19		1550	1824	2.44
	1702	1915	-3.76		1614	1856	3.00		1800	2027	-4.20		2126		
	2240				2159										
6 TH		0112	2.63	14 FR		0054	-5.36	22 SA	0007	0248	2.99	30 SU		0036	-5.19
	0319	0619	-5.83		0527	0813	3.63		0503	0757	-4.79		0512	0818	3.58
	1044	1326	4.62		1217	1424	-3.16		1148	1433	4.17		1223	1426	-2.32
	1744	1958	-4.15		1716	2000	2.47		1826	2056	-4.39		1650	1920	1.88
	2330				2244								2209		
7 FR		0208	3.06	15 SA		0146	-5.07	23 SU	0040	0324	3.14	31 MO		0132	-5.11
	0423	0719	-5.92		0620	0908	3.67		0547	0836	-4.67		0614	0922	3.74
	1136	1416	4.59		1327	1533	-2.92		1220	1506	4.11		1344	1544	-2.15
	1822	2041	-4.53		1833	2117	2.06		1849	2123	-4.59		1814	2050	1.50
					2335								2312		
8 SA	0020	0305	3.37	16 SU		0245	-4.80	24 MO	0112	0357	3.24				
	0528	0819	-5.81		0715	1002	3.75		0631	0914	-4.48				
	1225	1505	4.48		1433	1642	-2.92		1250	1536	4.00				
	1858	2124	-4.93		1959	2231	1.89		1911	2149	-4.79				

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

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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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 TU		0238	-5.07	9 WE	0229	0513	4.00	17 TH		0014	2.16	25 FR	0218	0504	3.86
	0723	1025	3.96		0837	1058	-4.45		0218	0534	-4.29		0836	1102	-3.84
	1455	1701	-2.49		1418	1658	3.81		0933	1220	3.80		1407	1645	3.36
	1956	2228	1.65		2005	2255	-6.12		1629	1850	-3.64		1944	2236	-5.58
2 WE O	0035	0350	-5.16	10 TH	0315	0557	3.88	18 FR		0105	2.65	26 SA	0257	0544	3.77
	0832	1124	4.18		0937	1152	-4.00		0320	0622	-4.50		0929	1150	-3.43
	1551	1803	-3.16		1459	1737	3.44		1018	1304	3.95		1441	1717	3.03
	2116	2352	2.28		2042	2335	-5.81		1659	1924	-4.04		2014	2314	-5.50
3 TH	0159	0504	-5.40	11 FR	0400	0643	3.73	19 SA		0148	3.06	27 SU	0342	0631	3.63
	0936	1222	4.36		1037	1249	-3.57		0412	0705	-4.64		1031	1245	-2.95
	1636	1850	-3.82		1543	1819	2.97		1057	1342	4.03		1520	1752	2.61
	2218				2120				1723	1954	-4.38		2049		
4 FR		0100	3.00	12 SA		0020	-5.35	20 SU		0223	3.38	28 MO		0002	-5.30
	0318	0613	-5.68		0447	0733	3.56		0459	0745	-4.70		0436	0734	3.49
	1034	1316	4.46		1140	1349	-3.11		1131	1416	4.05		1144	1350	-2.46
	1714	1935	-4.43		1633	1912	2.39		1745	2021	-4.70		1613	1841	2.08
5 SA		0202	3.53	13 SU		0111	-4.86	21 MO	0009	0255	3.60	29 TU		0103	-5.03
	0429	0719	-5.82		0538	0827	3.42		0541	0824	-4.67		0542	0851	3.49
	1126	1407	4.48		1248	1454	-2.67		1202	1447	4.01		1304	1504	-2.24
	1749	2020	-5.05		1740	2027	1.85		1806	2046	-5.00		1737	2018	1.66
6 SU	0004	0256	3.86	14 MO		0210	-4.41	22 TU	0039	0326	3.75	30 WE		0217	-4.80
	0535	0820	-5.71		0637	0928	3.36		0623	0901	-4.57		0659	1005	3.65
	1213	1454	4.41		1358	1606	-2.48		1233	1516	3.92		1417	1624	-2.61
	1823	2102	-5.62		1914	2153	1.60		1828	2111	-5.25		1928	2218	2.01
7 MO	0054	0344	4.02	15 TU		0321	-4.14	23 WE	0110	0357	3.85	31 TH O	0035	0341	-4.80
	0637	0915	-5.38		0739	1031	3.43		0704	0940	-4.40		0816	1112	3.89
	1258	1538	4.28		1502	1716	-2.72		1304	1544	3.80		1512	1730	-3.41
	1857	2139	-6.03		2044	2309	1.74		1852	2136	-5.44		2054	2344	2.84
8 TU ●	0143	0428	4.06	16 WE ●	0108	0434	-4.12	24 TH O	0143	0429	3.89				
	0738	1007	-4.93		0839	1130	3.60		0748	1019	-4.16				
	1338	1619	4.08		1551	1809	-3.19		1335	1614	3.61				
	1931	2216	-6.21		2145				1917	2204	-5.55				

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 - 2023

Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate			Slack Time			Maximum Time Rate								
1 FR	0208	0503	-5.09	9 SA	0319	0601	3.76	17 SU	0410	0652	-4.43	25 MO	0312	0555	3.69	26 TU	0407	0656	3.40	27 WE	0515	0823	3.25						
	0924	1212	4.11		0957	1215	-3.67		1039	1324	3.75		1001	1220	-3.19		1106	1320	-2.86		1218	1430	-2.79						
	1555	1822	-4.22		1513	1745	2.89		1633	1913	-4.68		1504	1734	2.61		1603	1834	2.15		1733	2032	2.03						
	2158				2044	2346	-5.06		2301				2030	2340	-5.06		2136				2312								
2 SA		0050	3.56	10 SU	0403	0647	3.46	18 MO		0146	3.85	26 TU	0407	0656	3.40	27 WE		0515	0823	3.25	28 TH		0638	0948	3.35				
	0328	0616	-5.41		1053	1308	-3.17		0454	0734	-4.60		1106	1320	-2.86		1218	1430	-2.79	1324		1546	-3.21						
	1023	1306	4.24		1557	1831	2.34		1114	1356	3.78		1504	1734	2.61		1603	1834	2.15	1733		2032	2.03						
	1633	1909	-5.01		2127				1656	1939	-5.07		2030	2340	-5.06		2136			2312									
3 SU		0145	4.03	11 MO		0037	-4.48	19 TU		0216	4.10	27 WE		0515	0823	3.25	28 TH		0638	0948	3.35	29 FR		0801	1101	3.57			
	0437	0721	-5.55		0452	0741	3.17		0533	0813	-4.66		0515	0823	3.25	0638		0948	3.35	0801	1101		3.57						
	1114	1355	4.28		1157	1409	-2.64		1146	1426	3.76		1218	1430	-2.79	1324		1546	-3.21	1420	1654		-3.99						
	1708	1950	-5.72		1657	1942	1.76		1720	2004	-5.39		2030	2340	-5.06	2136				2312									
4 MO		0230	4.31	12 TU		0139	-3.96	20 WE		0003	0247	4.25	28 TH		0638	0948	3.35	29 FR		0801	1101	3.57	30 SA		0911	1201	3.77		
	0538	0817	-5.46		0552	0850	2.97		0612	0850	-4.63	0638		0948	3.35	0801	1101		3.57	0911	1201	3.77							
	1159	1440	4.22		1309	1522	-2.34		1218	1454	3.69	1218		1430	-2.79	1324	1546		-3.21	1420	1654	-3.99							
	1742	2028	-6.26		1833	2121	1.49		1745	2030	-5.62	2030		2340	-5.06	2136				2312									
5 TU		0030	0313	4.42	13 WE		0255	-3.62	21 TH		0035	0319	4.31	29 FR		0801	1101	3.57	30 SA		0911	1201	3.77	31 O		1001	1220	-3.19	
	0634	0908	-5.19	0704		1012	3.01	0651		0927	-4.51	0801	1101		3.57	0911	1201	3.77		1001	1220	-3.19							
	1241	1520	4.10	1416		1638	-2.57	1250		1523	3.58	1218	1430		-2.79	1324	1546	-3.21		1420	1654	-3.99							
	1818	2105	-6.50	2012		2247	1.78	1812		2058	-5.75	2030	2340		-5.06	2136				2312									
6 WE		0114	0356	4.39	14 TH		0056	0414	-3.59	22 FR		0109	0352	4.28	30 SA		0801	1101	3.57	31 O		0911	1201	3.77	32 O		1001	1220	-3.19
	0726	0954	-4.85	0814		1117	3.23	0732	1005		-4.29	0801	1101	3.57		0911	1201	3.77	1001		1220	-3.19							
	1320	1557	3.91	1506		1734	-3.14	1320	1552		3.44	1218	1430	-2.79		1324	1546	-3.21	1420		1654	-3.99							
	1852	2142	-6.45	2112		2351	2.39	1841	2128		-5.77	2030	2340	-5.06		2136			2312										
7 TH		0157	0438	4.24	15 FR		0216	0519	-3.84	23 SA		0145	0428	4.17	31 O		0801	1101	3.57	32 O		0911	1201	3.77	33 O		1001	1220	-3.19
	0817	1039	-4.48	0913		1206	3.47	0816	1044		-3.97	0801	1101	3.57		0911	1201	3.77	1001		1220	-3.19							
	1357	1633	3.66	1542		1813	-3.72	1351	1622		3.24	1218	1430	-2.79		1324	1546	-3.21	1420		1654	-3.99							
	1928	2220	-6.13	2154				1911	2204		-5.67	2030	2340	-5.06		2136			2312										
8 FR		0238	0519	4.02	16 SA		0037	3.00	24 SU		0226	0508	3.97	32 O		0801	1101	3.57	33 O		0911	1201	3.77	34 O		1001	1220	-3.19	
	0906	1125	-4.09	0320		0608	-4.17	0905		1129	-3.59	0801	1101		3.57	0911	1201	3.77		1001	1220	-3.19							
	1434	1707	3.33	0959		1248	3.65	1424		1655	2.97	1218	1430		-2.79	1324	1546	-3.21		1420	1654	-3.99							
	2006	2301	-5.64	1610		1844	-4.23	1946		2246	-5.44	2030	2340		-5.06	2136				2312									

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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 SU		0028	4.04	9 MO	0317	0558	3.46	17 TU		0105	4.27	25 WE	0344	0630	3.38
	0339	0620	-4.98		1002	1228	-3.40		0444	0721	-4.41		1028	1254	-3.53
	1009	1254	3.89		1532	1804	2.30		1056	1333	3.35		1615	1905	2.39
	1546	1832	-5.60		2057				1606	1852	-5.33		2158		
	2229								2254						
2 MO		0114	4.45	10 TU		0007	-4.08	18 WE		0138	4.50	26 TH		0052	-4.12
	0440	0719	-5.13		0402	0648	3.06		0523	0800	-4.55		0450	0753	3.11
	1059	1340	3.93		1058	1322	-2.94		1131	1403	3.37		1127	1356	-3.62
	1625	1912	-6.19		1630	1914	1.80		1636	1921	-5.64		1742	2046	2.67
	2316				2156				2328				2339		
3 TU		0158	4.67	11 WE		0110	-3.53	19 TH		0212	4.61	27 FR		0219	-3.81
	0533	0811	-5.12		0458	0801	2.68		0601	0838	-4.58		0613	0922	3.06
	1143	1423	3.89		1200	1426	-2.65		1204	1433	3.35		1226	1504	-3.98
	1702	1951	-6.51		1758	2049	1.64		1707	1952	-5.82		1907	2210	3.30
	2359				2317										
4 WE		0240	4.70	12 TH		0225	-3.10	20 FR	0003	0247	4.61	28 SA	0117	0350	-3.87
	0622	0855	-4.98		0613	0936	2.59		0639	0915	-4.50		0741	1039	3.18
	1223	1500	3.79		1302	1539	-2.78		1236	1502	3.30		1322	1610	-4.60
	1739	2029	-6.53		1927	2217	2.08		1739	2025	-5.88		2015	2310	3.89
5 TH	0040	0321	4.58	13 FR	0053	0348	-3.01	21 SA	0040	0323	4.51	29 SU	0238	0511	-4.17
	0707	0936	-4.77		0737	1048	2.76		0719	0951	-4.33		0854	1141	3.32
	1301	1535	3.65		1354	1639	-3.28		1308	1534	3.21		1414	1704	-5.28
	1816	2107	-6.28		2026	2316	2.77		1813	2101	-5.79		2112	2358	4.36
6 FR ☉	0120	0400	4.38	14 SA	0214	0459	-3.33	22 SU ☉	0120	0401	4.32	30 MO	0343	0615	-4.47
	0750	1016	-4.52		0845	1140	2.97		0801	1031	-4.09		0953	1235	3.42
	1337	1609	3.43		1434	1721	-3.87		1342	1607	3.07		1500	1751	-5.85
	1854	2146	-5.83		2109	2357	3.40		1850	2143	-5.54		2201		
7 SA	0158	0438	4.11	15 SU ●	0315	0553	-3.77	23 MO	0202	0443	4.06	31 TU		0044	4.68
	0831	1057	-4.21		0936	1222	3.16		0846	1113	-3.84		0436	0710	-4.67
	1412	1642	3.15		1507	1754	-4.43		1419	1646	2.86		1043	1323	3.47
	1932	2229	-5.28		2146				1935	2233	-5.14		1543	1835	-6.21
													2245		
8 SU	0236	0517	3.81	16 MO		0032	3.90	24 TU	0249	0531	3.73				
	0915	1140	-3.84		0403	0639	-4.15		0935	1200	-3.64				
	1449	1718	2.77		1019	1300	3.28		1508	1738	2.58				
	2012	2314	-4.68		1536	1823	-4.92		2035	2336	-4.63				
					2220										

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 - 2023

	Slack Time	Maximum Time Rate			Slack Time	Maximum Time Rate			Slack Time	Maximum Time Rate			Slack Time	Maximum Time Rate		
1 WE		0127	4.81	9 TH		0039	-3.24	17 FR		0143	4.75	25 SA		0221	-3.46	
	0523	0757	-4.76		0400	0655	2.68		0550	0823	-4.38		0544	0841	2.82	
	1127	1406	3.48		1044	1326	-3.32		1150	1415	3.02		1132	1421	-4.69	
	1625	1916	-6.32		1720	2013	2.09		1635	1922	-5.87		1846	2143	3.64	
	2327			2304				2340								
2 TH		0209	4.77	10 FR		0150	-2.72	18 SA		0222	4.70	26 SU		0126	0345	-3.45
	0606	0837	-4.75		0503	0824	2.29		0629	0901	-4.40		0712	1001	2.70	
	1206	1444	3.43		1132	1423	-3.33		1225	1450	3.06		1227	1524	-5.00	
	1705	1957	-6.20		1831	2131	2.52		1716	2003	-5.87		1948	2238	4.06	
3 FR	0007	0247	4.63	11 SA	0040	0311	-2.51	19 SU	0021	0303	4.57	27 MO	0239	0459	-3.69	
	0645	0916	-4.67		0634	0948	2.18		0709	0940	-4.37		0831	1110	2.73	
	1243	1519	3.34		1222	1521	-3.59		1301	1527	3.06		1324	1623	-5.35	
	1745	2037	-5.89		1930	2228	3.12		1759	2048	-5.69		2043	2329	4.40	
4 SA	0045	0326	4.42	12 SU	0201	0429	-2.77	20 MO	0104	0345	4.36	28 TU	0338	0600	-3.99	
	0723	0953	-4.52		0802	1050	2.27		0748	1018	-4.34		0935	1210	2.84	
	1319	1552	3.19		1310	1611	-4.03		1341	1609	3.00		1418	1716	-5.64	
	1825	2119	-5.45		2018	2311	3.69		1848	2139	-5.34		2132			
5 SU	0121	0402	4.18	13 MO	0302	0531	-3.29	21 TU	0148	0429	4.10	29 WE		0015	4.61	
	0800	1031	-4.32		0905	1141	2.44		0827	1058	-4.32		0427	0652	-4.23	
	1355	1627	2.98		1354	1652	-4.52		1427	1701	2.91		1027	1302	2.96	
	1905	2201	-4.94		2100	2349	4.14		1945	2237	-4.87		1508	1805	-5.81	
6 MO																
	0158	0439	3.89	14 TU	0349	0620	-3.75	22 WE	0234	0517	3.79	30 TH		0059	4.68	
	0837	1109	-4.06		0954	1225	2.63		0908	1140	-4.33		0510	0737	-4.39	
	1433	1706	2.69		1436	1729	-5.00		1521	1808	2.85		1112	1349	3.07	
1947	2247	-4.39	2140				2057		2344	-4.32	1555		1851	-5.84		
7 TU																
	0234	0516	3.56	15 WE		0026	4.48	23 TH	0325	0613	3.44					
	0916	1151	-3.77		0431	0703	-4.08		0951	1227	-4.39					
	1517	1753	2.36		1036	1304	2.80		1626	1923	2.94					
2036	2339	-3.82	1517		1805	-5.41	2223									
8 WE																
	0313	0557	3.15	16 TH		0104	4.68	24 FR		0058	-3.80					
	0958	1235	-3.50		0511	0744	-4.29		0427	0721	3.10					
1611	1856	2.09	1114		1340	2.93	1039		1320	-4.49						
2140			1556		1843	-5.71	1737		2038	3.23						

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 - 2023

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate				
1 FR		0141	4.65	9 SA		0111	-2.72	17 SU		0207	4.65	25 MO		0115	0324	-3.13			
	0550	0819	-4.49			0402	0650		2.45		0618		0845	-4.38		0631	0915	2.31	
	1152	1432	3.12			1014	1309		-4.08		1215		1449	3.06		1137	1442	-5.10	
	1640	1935	-5.72			1733	2037		2.95		1707		1956	-5.85		1916	2207	3.95	
	2340																		
2 SA		0221	4.53	10 SU		0006	0223	-2.35	18 MO		0011	0252	4.54	26 TU		0225	0436	-3.21	
	0627	0857	-4.52			0510	0811	1.94			0655	0925	-4.60			0759	1032	2.16	
	1230	1509	3.11			1056	1359	-4.13			1258	1536	3.20			1238	1547	-5.07	
	1723	2017	-5.47			1829	2134	3.35			1801	2050	-5.67			2013	2300	4.14	
3 SU		0017	0259	4.38	11 MO		0128	0341	-2.33	19 TU		0056	0337	4.37	27 WE		0324	0539	-3.48
	0701	0932	-4.51			0646	0931	1.67			0730	1003	-4.83			0913	1141	2.26	
	1307	1546	3.05			1145	1453	-4.30			1343	1628	3.27			1341	1649	-5.13	
	1805	2059	-5.14			1922	2223	3.77			1859	2147	-5.31			2106	2350	4.28	
4 MO		0053	0335	4.19	12 TU		0235	0453	-2.70	20 WE		0140	0422	4.14	28 TH		0414	0634	-3.77
	0734	1008	-4.45			0817	1040	1.66			0805	1041	-5.05			1012	1241	2.49	
	1343	1622	2.93			1240	1546	-4.59			1432	1721	3.32			1441	1745	-5.22	
	1847	2141	-4.73			2013	2308	4.15			2003	2245	-4.82			2155			
5 TU		0127	0411	3.97	13 WE		0329	0553	-3.20	21 TH		0224	0508	3.88	29 FR			0037	4.35
	0805	1041	-4.36			0922	1140	1.88			0839	1120	-5.22			0458	0720	-4.02	
	1421	1700	2.79			1336	1637	-4.96			1524	1815	3.36			1100	1334	2.72	
	1932	2225	-4.28			2102	2352	4.43			2115	2347	-4.25			1535	1837	-5.28	
6 WE		0201	0445	3.70	14 TH		0416	0641	-3.61	22 FR		0310	0556	3.56	30 SA			0121	4.37
	0836	1114	-4.27			1012	1232	2.22			0915	1200	-5.30			0536	0801	-4.24	
	1502	1743	2.66			1431	1725	-5.34			1619	1912	3.43			1141	1420	2.92	
	2023	2313	-3.78			2151					2234					1624	1923	-5.26	
7 TH		0235	0520	3.38	15 FR			0037	4.61	23 SA			0055	-3.70	31 SU			0203	4.34
	0906	1149	-4.18			0459	0724	-3.92			0404	0649	3.17			0610	0839	-4.41	
	1547	1835	2.60			1054	1318	2.56			0956	1247	-5.29			1219	1500	3.04	
	2125					1524	1815	-5.65			1717	2010	3.55			1710	2006	-5.16	
8 FR			0008	-3.24	16 SA			0122	4.68	24 SU			0209	-3.29					
	0313	0559	2.97			0540	0806	-4.16			0509	0754	2.70						
	0938	1227	-4.11			1135	1403	2.85			1043	1341	-5.19						
	1638	1934	2.68			1615	1905	-5.84			1817	2109	3.74						
	2241					2325													

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

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

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

Port Welshpool Pier

Time Differences for Supplementary Locations
- Based on Port Welshpool Pier

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

Port Welshpool Pier Datums

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

AHD metres	Predominantly semi-diurnal tides	Chart Datum metres
1.52	Highest recorded tide 18/08/2013 (2001-2020)	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
0.000	Australian Height Datum	1.51
-0.56	Mean Low Water Neaps (MLWN)	1.04
-0.92	Mean Low Water Springs (MLWS)	0.68
-1.51	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.94	Lowest recorded tide 09/11/2017 (2001-2020)	-0.34

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 - 2023

Time	m	Time	m	Time	m	Time	m
1 SU 0136 0.67 0750 2.63 1423 0.43 2034 2.33		9 MO 0302 2.38 0836 1.34 1352 2.09 2043 0.52		17 TU 0117 0.90 0720 2.53 1405 0.50 2028 2.26		25 WE 0359 2.59 0940 0.94 1530 2.39 2159 0.26	
2 MO 0222 0.86 0822 2.54 1506 0.42 2128 2.27		10 TU 0347 2.42 0929 1.26 1449 2.10 2128 0.53		18 WE 0201 0.99 0752 2.55 1447 0.39 2120 2.28		26 TH 0451 2.67 1045 0.73 1647 2.44 2258 0.35	
3 TU 0307 1.04 0855 2.45 1550 0.43 2222 2.24		11 WE 0429 2.46 1016 1.17 1542 2.12 2210 0.57		19 TH 0249 1.09 0830 2.56 1534 0.30 2218 2.29		27 FR 0538 2.71 1143 0.53 1753 2.48 2352 0.47	
4 WE 0354 1.19 0929 2.36 1635 0.45 2319 2.23		12 TH 0503 2.47 1100 1.08 1631 2.13 2248 0.62		20 FR 0342 1.18 0917 2.55 1628 0.24 2325 2.30		28 SA 0619 2.71 1233 0.39 1848 2.49	
5 TH 0445 1.31 1006 2.27 1722 0.48		13 FR 0534 2.48 1138 0.98 1718 2.14 2325 0.68		21 SA 0443 1.26 1015 2.51 1730 0.21		29 SU 0042 0.60 0656 2.68 1318 0.31 1938 2.47	
6 FR 0018 2.24 0541 1.38 1052 2.19 1813 0.51		14 SA 0601 2.49 1215 0.87 1804 2.17		22 SU 0037 2.33 0553 1.30 1126 2.45 1839 0.19		30 MO 0126 0.75 0728 2.62 1400 0.29 2023 2.43	
7 SA 0116 2.28 0640 1.41 1147 2.13 1903 0.52		15 SU 0000 0.74 0627 2.50 1250 0.75 1851 2.20		23 MO 0150 2.40 0712 1.26 1246 2.40 1948 0.19		31 TU 0206 0.89 0758 2.55 1439 0.31 2106 2.38	
8 SU 0211 2.32 0739 1.39 1251 2.10 1954 0.52		16 MO 0038 0.82 0653 2.52 1327 0.63 1939 2.23		24 TU 0259 2.49 0829 1.13 1408 2.38 2055 0.21			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0245 1.01 0826 2.48 WE 1516 0.36 2148 2.32		9 0356 2.29 0947 1.13 TH 1532 2.05 2150 0.74		17 0232 1.04 0811 2.61 FR 1509 0.20 2151 2.36		25 0512 2.61 1122 0.36 SA 1749 2.57 2341 0.64	
2 0322 1.13 0854 2.40 TH 1554 0.43 2233 2.26		10 0432 2.35 1034 0.98 FR 1630 2.11 2233 0.78		18 0320 1.09 0858 2.60 SA 1600 0.20 2247 2.32		26 0552 2.62 1209 0.26 SU 1839 2.60	
3 0400 1.23 0924 2.32 FR 1636 0.50 2323 2.20		11 0504 2.39 1115 0.83 SA 1719 2.19 2314 0.82		19 0415 1.15 0954 2.54 SU 1700 0.25 2355 2.28		27 0027 0.73 0628 2.60 MO 1250 0.23 1921 2.59	
4 0444 1.31 1001 2.23 SA 1723 0.58		12 0532 2.43 1153 0.69 SU 1806 2.27 2352 0.86		20 0525 1.18 1105 2.44 MO 1812 0.32		28 0107 0.82 0659 2.56 TU 1328 0.25 1959 2.55	
5 0020 2.15 0536 1.38 SU 1049 2.14 1817 0.63		13 0600 2.47 1230 0.55 MO 1851 2.34		21 0110 2.30 0647 1.13 TU 1233 2.34 1928 0.39			
6 0121 2.14 0640 1.40 MO 1154 2.05 1915 0.67		14 0030 0.90 0629 2.51 TU 1306 0.43 1935 2.39		22 0224 2.37 0810 0.98 WE 1407 2.32 2040 0.44			
7 0219 2.17 0747 1.36 TU 1313 2.00 2011 0.70		15 0109 0.94 0659 2.55 WE 1345 0.33 2018 2.41		23 0329 2.47 0924 0.76 TH 1537 2.39 2147 0.50			
8 0312 2.23 0852 1.26 WE 1428 2.00 2103 0.72		16 0150 0.99 0732 2.59 TH 1425 0.25 2103 2.40		24 0424 2.56 1028 0.53 FR 1650 2.49 2248 0.56			

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PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2023

Time	m	Time	m	Time	m	Time	m
1 0144 0.90 0727 2.52 WE 1403 0.31 2034 2.49		9 0219 2.09 0815 1.17 TH 1419 1.98 2035 0.96		17 0136 1.00 0714 2.60 FR 1401 0.22 2043 2.49		25 0346 2.45 1001 0.39 SA 1643 2.60 2230 0.82	
2 0217 0.98 0754 2.47 TH 1437 0.38 2109 2.41		10 0307 2.17 0912 1.00 FR 1530 2.09 2129 0.97		18 0217 1.01 0755 2.61 SA 1445 0.23 2124 2.43		26 0434 2.49 1051 0.28 SU 1733 2.68 2320 0.85	
3 0248 1.05 0821 2.41 FR 1512 0.46 2145 2.31		11 0348 2.24 1000 0.81 SA 1627 2.23 2216 0.97		19 0303 1.02 0844 2.57 SU 1535 0.30 2213 2.36		27 0515 2.50 1135 0.25 MO 1816 2.70	
4 0320 1.13 0850 2.34 SA 1549 0.56 2225 2.21		12 0424 2.31 1043 0.65 SU 1715 2.36 2300 0.97		20 0359 1.04 0943 2.47 MO 1635 0.43 2314 2.30		28 0004 0.89 0549 2.49 TU 1214 0.28 1854 2.68	
5 0356 1.21 0925 2.24 SU 1632 0.67 2314 2.11		13 0458 2.38 1123 0.50 MO 1800 2.46 2340 0.97		21 0509 1.03 1100 2.35 TU 1748 0.57		29 0042 0.93 0621 2.49 WE 1249 0.33 1927 2.63	
6 0443 1.29 1009 2.12 MO 1726 0.78		14 0530 2.44 1202 0.39 TU 1843 2.53		22 0026 2.28 0632 0.95 WE 1237 2.27 1909 0.68		30 0115 0.97 0650 2.47 TH 1322 0.39 1959 2.56	
7 0015 2.05 0546 1.33 TU 1112 2.00 1829 0.88		15 0019 0.98 0603 2.50 WE 1241 0.30 1924 2.56		23 0140 2.32 0753 0.78 TH 1415 2.33 2024 0.75		31 0146 1.01 0718 2.44 FR 1355 0.47 2029 2.48	
8 0121 2.04 0703 1.29 WE 1248 1.93 1934 0.93		16 0058 0.99 0637 2.55 TH 1320 0.24 2004 2.54		24 0248 2.39 0902 0.57 FR 1539 2.47 2132 0.78			

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PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

APRIL - 2023

Time	m	Time	m	Time	m	Time	m
1 0215 1.05 0747 2.38 SA 1427 0.56 2100 2.38		9 0250 2.21 0920 0.63 SU 1613 2.42 2150 1.17		17 0256 0.97 0839 2.47 MO 1515 0.53 2143 2.44		25 0428 2.40 1056 0.34 TU 1745 2.75 2335 1.07	
2 0244 1.10 0818 2.30 SU 1501 0.67 2132 2.27		10 0335 2.29 1006 0.48 MO 1700 2.56 2237 1.13		18 0353 0.94 0945 2.35 TU 1615 0.71 2237 2.38		26 0504 2.42 1133 0.39 WE 1820 2.71	
3 0318 1.16 0854 2.20 MO 1540 0.81 2210 2.18		11 0416 2.38 1050 0.36 TU 1745 2.65 2320 1.10		19 0503 0.88 1111 2.26 WE 1730 0.89 2342 2.34		27 0012 1.08 0538 2.42 TH 1207 0.45 1852 2.66	
4 0402 1.20 0940 2.07 TU 1627 0.96 2258 2.10		12 0457 2.45 1133 0.29 WE 1827 2.69		20 0619 0.76 1249 2.28 TH 1849 1.02 ●		28 0045 1.08 0611 2.41 FR 1240 0.52 ● 1922 2.59	
5 0503 1.21 1050 1.97 WE 1730 1.10 2359 2.06		13 0002 1.06 0536 2.52 TH 1215 0.25 ● 1907 2.68		21 0052 2.32 0730 0.60 FR 1417 2.41 2003 1.07		29 0114 1.09 0644 2.38 SA 1312 0.60 1950 2.52	
6 0621 1.15 1237 1.95 TH 1847 1.19 ○		14 0043 1.04 0616 2.57 FR 1257 0.25 1945 2.63		22 0159 2.34 0833 0.45 SA 1527 2.58 2109 1.08		30 0143 1.10 0715 2.32 SU 1343 0.70 2017 2.45	
7 0103 2.07 0732 1.00 FR 1410 2.07 1958 1.21		15 0124 1.01 0659 2.58 SA 1339 0.29 2021 2.57		23 0257 2.37 0927 0.36 SU 1622 2.70 2205 1.07			
8 0201 2.13 0830 0.82 SA 1518 2.24 2058 1.20		16 0207 0.99 0745 2.55 SU 1424 0.39 2059 2.50		24 0345 2.39 1015 0.32 MO 1707 2.75 2253 1.07			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0214 1.11 0750 2.24 MO 1415 0.82 2045 2.38		9 0246 2.36 0931 0.36 TU 1637 2.71 2207 1.26		17 0354 0.80 1000 2.29 WE 1600 1.01 2204 2.47		25 0419 2.36 1053 0.52 TH 1746 2.69 2339 1.21	
2 0249 1.12 0830 2.15 TU 1451 0.96 2116 2.31		10 0337 2.44 1019 0.29 WE 1723 2.77 2256 1.19		18 0456 0.71 1124 2.28 TH 1711 1.19 2300 2.40		26 0459 2.36 1128 0.58 FR 1818 2.64	
3 0332 1.10 0924 2.06 WE 1535 1.12 2154 2.25		11 0427 2.51 1106 0.26 TH 1807 2.78 2344 1.12		19 0600 0.62 1248 2.36 FR 1825 1.30		27 0013 1.19 0536 2.34 SA 1200 0.66 1846 2.60	
4 0430 1.05 1043 2.01 TH 1634 1.28 2243 2.21		12 0515 2.56 1152 0.28 FR 1847 2.76		20 0003 2.35 0701 0.53 SA 1401 2.49 ● 1935 1.34		28 0045 1.17 0613 2.31 SU 1232 0.74 ● 1913 2.55	
5 0538 0.96 1223 2.06 FR 1753 1.39 2345 2.19		13 0030 1.05 0603 2.57 SA 1237 0.35 ● 1926 2.71		21 0106 2.33 0758 0.46 SU 1501 2.62 2037 1.32		29 0115 1.14 0650 2.26 MO 1303 0.83 1937 2.52	
6 0646 0.81 1348 2.23 SA 1913 1.43 ○		14 0116 0.99 0654 2.54 SU 1322 0.46 2000 2.65		22 0203 2.32 0848 0.43 MO 1551 2.70 2131 1.29		30 0148 1.09 0730 2.20 TU 1336 0.95 2002 2.49	
7 0052 2.22 0747 0.64 SU 1454 2.42 2019 1.40		15 0205 0.93 0747 2.47 MO 1409 0.62 2036 2.59		23 0253 2.34 0934 0.44 TU 1634 2.73 2219 1.26		31 0226 1.03 0819 2.15 WE 1414 1.08 2030 2.46	
8 0152 2.28 0841 0.49 MO 1548 2.59 2115 1.33		16 0257 0.86 0848 2.37 TU 1500 0.81 2116 2.53		24 0338 2.35 1015 0.47 WE 1712 2.72 2301 1.23			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0309 0.95 0918 2.12 TH 1500 1.22 2103 2.43		9 0406 2.55 1045 0.29 FR 1746 2.81 2330 1.09		17 0530 0.56 1226 2.39 SA 1750 1.45 2313 2.37		25 0511 2.26 1129 0.78 SU 1814 2.57	
2 0400 0.86 1031 2.13 FR 1559 1.37 2146 2.40		10 0505 2.56 1136 0.36 SA 1829 2.80		18 0625 0.55 1329 2.46 SU 1855 1.49 ●		26 0021 1.15 0554 2.24 MO 1201 0.86 ● 1838 2.56	
3 0459 0.75 1156 2.21 SA 1708 1.49 2244 2.38		11 0023 0.97 0605 2.54 SU 1226 0.49 ● 1908 2.77		19 0011 2.32 0718 0.54 MO 1425 2.54 1957 1.48		27 0054 1.07 0637 2.22 TU 1234 0.94 1901 2.57	
4 0602 0.63 1315 2.36 SU 1825 1.53 ○ 2353 2.37		12 0115 0.86 0703 2.49 MO 1314 0.65 1943 2.72		20 0110 2.29 0809 0.55 TU 1515 2.59 2052 1.44		28 0129 0.97 0724 2.22 WE 1311 1.03 1927 2.57	
5 0706 0.50 1421 2.51 MO 1936 1.50		13 0205 0.76 0802 2.43 TU 1402 0.83 2017 2.67		21 0205 2.29 0856 0.56 WE 1600 2.61 2142 1.39		29 0205 0.87 0815 2.23 TH 1352 1.14 1955 2.58	
6 0102 2.40 0805 0.38 TU 1519 2.65 2040 1.42		14 0255 0.69 0903 2.37 WE 1453 1.03 2053 2.60		22 0255 2.29 0939 0.59 TH 1639 2.62 2227 1.33		30 0246 0.76 0910 2.24 FR 1439 1.25 2029 2.58	
7 0206 2.46 0900 0.30 WE 1612 2.74 2138 1.32		15 0345 0.63 1008 2.33 TH 1547 1.21 2133 2.53		23 0343 2.29 1018 0.64 FR 1715 2.61 2309 1.28			
8 0307 2.52 0954 0.27 TH 1700 2.79 2234 1.20		16 0436 0.59 1117 2.34 FR 1646 1.36 2219 2.45		24 0428 2.28 1056 0.71 SA 1746 2.59 2346 1.22			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0332 0.65 1011 2.27 SA 1533 1.37 2110 2.57		9 0511 2.54 1128 0.47 SU 1809 2.81		17 0545 0.60 1244 2.35 MO 1804 1.51 2315 2.30		25 0548 2.23 1143 0.94 TU 1806 2.55	
2 0425 0.55 1120 2.32 SU 1634 1.46 2203 2.55		10 0015 0.76 0615 2.54 MO 1220 0.62 ● 1849 2.79		18 0637 0.64 1341 2.36 TU 1905 1.52 ●		26 0032 0.89 0634 2.27 WE 1218 1.00 ● 1831 2.58	
3 0524 0.47 1232 2.40 MO 1743 1.50 ○ 2310 2.52		11 0107 0.62 0715 2.52 TU 1309 0.78 1925 2.75		19 0015 2.24 0730 0.67 WE 1435 2.39 2006 1.49		27 0107 0.77 0720 2.31 TH 1257 1.06 1859 2.60	
4 0630 0.39 1343 2.50 TU 1856 1.48		12 0155 0.53 0810 2.48 WE 1356 0.95 1957 2.70		20 0121 2.20 0821 0.69 TH 1524 2.43 2104 1.42		28 0144 0.65 0806 2.34 FR 1338 1.13 1929 2.63	
5 0024 2.51 0734 0.32 WE 1446 2.59 2007 1.40		13 0240 0.49 0902 2.44 TH 1442 1.11 2030 2.63		21 0223 2.18 0909 0.72 FR 1607 2.47 2157 1.33		29 0222 0.55 0855 2.36 SA 1422 1.20 2004 2.65	
6 0137 2.52 0835 0.29 TH 1545 2.68 2115 1.27		14 0324 0.49 0956 2.40 FR 1528 1.25 2104 2.55		22 0320 2.18 0953 0.76 SA 1644 2.49 2242 1.23		30 0306 0.45 0945 2.37 SU 1511 1.27 2046 2.66	
7 0248 2.53 0934 0.30 FR 1637 2.75 2218 1.10		15 0408 0.52 1050 2.37 SA 1615 1.37 2142 2.47		23 0414 2.19 1032 0.81 SU 1715 2.51 2322 1.12		31 0355 0.39 1044 2.36 MO 1605 1.34 2138 2.65	
8 0400 2.54 1032 0.36 SA 1726 2.80 2319 0.93		16 0455 0.56 1146 2.35 SU 1708 1.46 2224 2.38		24 0502 2.20 1108 0.88 MO 1741 2.53 2358 1.01			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0452 0.35 1150 2.37 TU 1709 1.38 2242 2.60		9 0049 0.38 0713 2.60 WE 1300 0.84 1901 2.72		17 0653 0.79 1350 2.20 TH 1923 1.44		25 0042 0.54 0711 2.44 FR 1245 1.04 1834 2.59	
2 0558 0.33 1302 2.41 WE 1823 1.36 ○ 2359 2.54		10 0133 0.34 0800 2.56 TH 1343 0.97 1933 2.67		18 0048 2.08 0751 0.82 FR 1445 2.24 2030 1.34		26 0118 0.45 0752 2.45 SA 1324 1.08 1907 2.63	
3 0707 0.33 1412 2.48 TH 1942 1.27		11 0214 0.36 0845 2.50 FR 1422 1.08 2003 2.60		19 0208 2.07 0845 0.85 SA 1530 2.30 2126 1.21		27 0158 0.38 0834 2.44 SU 1404 1.11 1945 2.66	
4 0122 2.50 0815 0.35 FR 1515 2.58 2057 1.09		12 0253 0.42 0927 2.43 SA 1500 1.18 2034 2.53		20 0315 2.11 0933 0.88 SU 1607 2.36 2213 1.06		28 0240 0.32 0918 2.40 MO 1449 1.15 2028 2.67	
5 0245 2.49 0921 0.40 SA 1613 2.68 2206 0.87		13 0332 0.50 1010 2.35 SU 1539 1.28 2106 2.45		21 0412 2.17 1015 0.92 MO 1639 2.41 2252 0.91		29 0328 0.30 1009 2.35 TU 1541 1.18 2119 2.64	
6 0407 2.52 1023 0.48 SU 1702 2.74 2307 0.66		14 0414 0.58 1057 2.27 MO 1621 1.36 2142 2.35		22 0500 2.25 1054 0.95 TU 1707 2.46 2330 0.77		30 0423 0.33 1109 2.32 WE 1644 1.20 2226 2.55	
7 0518 2.57 1120 0.58 MO 1747 2.77		15 0500 0.67 1151 2.21 TU 1711 1.43 2227 2.25		23 0545 2.33 1130 0.98 WE 1735 2.51		31 0530 0.39 1220 2.32 TH 1801 1.16 ○ 2349 2.45	
8 0001 0.49 0619 2.60 TU 1213 0.71 ○ 1827 2.76		16 0555 0.74 1250 2.18 WE 1813 1.47 ● 2328 2.15		24 0005 0.65 0629 2.40 TH 1207 1.01 ○ 1804 2.55			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0645 0.45 1334 2.38 FR 1925 1.03		9 0141 0.34 0815 2.53 SA 1357 1.01 1934 2.54		17 0208 2.03 0819 1.02 SU 1441 2.17 2050 0.99		25 0132 0.28 0812 2.48 MO 1348 1.02 1928 2.62	
2 0123 2.42 0800 0.51 SA 1443 2.48 2042 0.81		10 0216 0.43 0849 2.44 SU 1430 1.08 2004 2.47		18 0314 2.15 0911 1.02 MO 1521 2.25 2136 0.82		26 0215 0.28 0851 2.42 TU 1432 1.02 2014 2.60	
3 0254 2.47 0910 0.56 SU 1542 2.58 2149 0.57		11 0253 0.53 0926 2.33 MO 1503 1.16 2034 2.38		19 0407 2.28 0956 1.02 TU 1557 2.32 2217 0.66		27 0302 0.33 0936 2.36 WE 1525 1.02 2110 2.52	
4 0413 2.57 1013 0.62 MO 1634 2.64 2246 0.38		12 0330 0.63 1004 2.22 TU 1539 1.24 2109 2.27		20 0452 2.40 1037 1.02 WE 1630 2.39 2257 0.54		28 0359 0.44 1031 2.31 TH 1630 1.00 2223 2.41	
5 0517 2.65 1109 0.70 TU 1719 2.67 2337 0.27		13 0414 0.75 1051 2.12 WE 1625 1.30 2152 2.15		21 0534 2.49 1115 1.01 TH 1703 2.45 2335 0.43		29 0508 0.57 1139 2.30 FR 1750 0.91 ○ 2357 2.34	
6 0611 2.69 1159 0.78 WE 1759 2.66		14 0507 0.86 1149 2.06 TH 1729 1.34 2258 2.02		22 0615 2.55 1153 1.01 FR 1737 2.51		30 0628 0.69 1253 2.32 SA 1912 0.74	
7 0022 0.24 0657 2.68 TH 1242 0.86 ● 1833 2.63		15 0613 0.95 1253 2.05 FR 1845 1.29 ●		23 0014 0.36 0655 2.56 SA 1230 1.01 ● 1811 2.56			
8 0102 0.27 0737 2.62 FR 1321 0.94 1904 2.59		16 0039 1.97 0719 1.00 SA 1352 2.09 1955 1.17		24 0052 0.31 0734 2.53 SU 1309 1.02 1847 2.60			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0135 2.38 0745 0.75 SU 1402 2.39 2023 0.52		9 0137 0.48 0811 2.44 MO 1400 1.02 1935 2.36		17 0303 2.27 0842 1.19 TU 1427 2.17 2058 0.59		25 0154 0.36 0826 2.47 WE 1425 0.90 2010 2.45	
2 0300 2.52 0856 0.78 MO 1504 2.46 2125 0.32		10 0211 0.59 0842 2.34 TU 1432 1.07 2007 2.27		18 0352 2.44 0930 1.14 WE 1511 2.25 2142 0.45		26 0242 0.48 0908 2.42 TH 1521 0.84 2115 2.35	
3 0408 2.67 0957 0.80 TU 1558 2.51 2218 0.21		11 0246 0.72 0915 2.23 WE 1507 1.12 2044 2.15		19 0436 2.56 1014 1.09 TH 1551 2.34 2224 0.35		27 0340 0.66 0959 2.36 FR 1627 0.77 2236 2.27	
4 0503 2.75 1050 0.83 WE 1644 2.53 2306 0.18		12 0325 0.86 0951 2.14 TH 1552 1.16 2132 2.03		20 0517 2.64 1055 1.05 FR 1631 2.41 2305 0.28		28 0450 0.84 1100 2.32 SA 1741 0.65	
5 0550 2.76 1137 0.86 TH 1723 2.53 2348 0.21		13 0414 1.01 1037 2.06 FR 1654 1.16 2250 1.93		21 0558 2.66 1135 1.02 SA 1711 2.48 2346 0.24		29 0013 2.29 0611 0.97 SU 1210 2.31 ○ 1853 0.48	
6 0631 2.72 1218 0.90 FR 1759 2.51 ●		14 0521 1.14 1136 2.02 SA 1809 1.09		22 0637 2.64 1215 0.99 SU 1750 2.52 ●		30 0142 2.43 0728 1.02 MO 1318 2.32 1958 0.32	
7 0027 0.29 0707 2.64 SA 1256 0.93 1831 2.48		15 0039 1.95 0640 1.22 SU 1241 2.03 ● 1915 0.94		23 0028 0.24 0715 2.59 MO 1256 0.97 1832 2.54		31 0254 2.60 0836 1.02 TU 1420 2.36 2055 0.21	
8 0103 0.38 0740 2.54 SU 1330 0.98 1903 2.44		16 0202 2.09 0746 1.22 MO 1338 2.09 2010 0.76		24 0110 0.28 0750 2.53 TU 1338 0.93 1917 2.52			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0352 2.72 0935 0.99 WE 1515 2.38 2145 0.17		9 0203 0.82 0830 2.30 TH 1445 1.01 2029 2.05		17 0415 2.64 0945 1.18 FR 1515 2.33 2154 0.23		25 0329 0.89 0930 2.44 SA 1622 0.53 2252 2.25	
2 0441 2.78 1026 0.97 TH 1602 2.40 2231 0.20		10 0239 0.97 0900 2.23 FR 1528 0.99 2126 1.97		18 0458 2.70 1031 1.10 SA 1603 2.40 2240 0.19		26 0435 1.07 1023 2.37 SU 1725 0.44	
3 0524 2.77 1112 0.96 FR 1644 2.41 2313 0.27		11 0324 1.13 0937 2.17 SA 1623 0.94 2246 1.94		19 0540 2.71 1117 1.02 SU 1651 2.45 2325 0.20		27 0015 2.32 0548 1.20 MO 1126 2.31 ○ 1828 0.35	
4 0601 2.71 1153 0.96 SA 1723 2.40 2350 0.36		12 0425 1.28 1024 2.12 SU 1727 0.85		20 0620 2.69 1203 0.95 MO 1739 2.47 ●		28 0130 2.45 0700 1.24 TU 1232 2.28 1928 0.28	
5 0634 2.63 1230 0.97 SU 1800 2.36 ●		13 0023 2.02 0545 1.38 MO 1125 2.09 ● 1830 0.72		21 0010 0.26 0658 2.65 TU 1250 0.87 1829 2.46		29 0233 2.57 0807 1.21 WE 1334 2.27 2022 0.25	
6 0026 0.46 0706 2.54 MO 1304 0.98 1835 2.31		14 0141 2.19 0700 1.39 TU 1230 2.10 1928 0.57		22 0054 0.36 0732 2.60 WE 1338 0.80 1923 2.40		30 0328 2.66 0906 1.16 TH 1430 2.28 2113 0.26	
7 0059 0.57 0735 2.46 TU 1336 1.00 1910 2.23		15 0240 2.38 0802 1.34 WE 1330 2.16 2019 0.42		23 0141 0.51 0807 2.55 TH 1429 0.71 2023 2.33			
8 0131 0.69 0802 2.38 WE 1409 1.01 1945 2.14		16 0330 2.53 0856 1.26 TH 1425 2.24 2107 0.30		24 0231 0.69 0845 2.50 FR 1523 0.63 2131 2.26			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0415 2.69 0959 1.11 FR 1522 2.28 2159 0.30		9 0206 1.03 0820 2.36 SA 1505 0.79 2120 2.02		17 0437 2.67 1010 1.10 SU 1544 2.39 2221 0.19		25 0415 1.18 0951 2.42 MO 1700 0.34 2354 2.33	
2 0456 2.68 1045 1.07 SA 1609 2.28 2241 0.37		10 0250 1.18 0852 2.32 SU 1551 0.72 2228 2.04		18 0522 2.70 1105 0.96 MO 1644 2.42 2311 0.24		26 0517 1.29 1044 2.33 TU 1756 0.34	
3 0532 2.64 1129 1.04 SU 1653 2.27 2319 0.46		11 0345 1.31 0931 2.27 MO 1644 0.63 2345 2.11		19 0603 2.71 1159 0.82 TU 1744 2.43		27 0100 2.38 0624 1.34 WE 1145 2.25 ○ 1853 0.35	
4 0606 2.59 1208 1.01 MO 1734 2.24 2355 0.56		12 0451 1.42 1024 2.23 TU 1743 0.54		20 0000 0.34 0643 2.70 WE 1250 0.69 ● 1843 2.41		28 0200 2.43 0730 1.34 TH 1248 2.20 1948 0.37	
5 0636 2.53 1245 0.99 TU 1815 2.19 ○		13 0100 2.24 0604 1.46 WE 1129 2.21 ● 1844 0.43		21 0049 0.48 0718 2.67 TH 1340 0.56 1941 2.38		29 0256 2.48 0831 1.30 FR 1349 2.17 2041 0.41	
6 0028 0.66 0704 2.48 WE 1318 0.96 1854 2.13		14 0204 2.38 0715 1.43 TH 1237 2.23 1942 0.32		22 0137 0.66 0752 2.62 FR 1428 0.46 2040 2.34		30 0345 2.51 0930 1.23 SA 1448 2.16 2130 0.45	
7 0059 0.78 0729 2.43 TH 1351 0.91 1936 2.08		15 0300 2.51 0816 1.34 FR 1343 2.28 2036 0.24		23 0227 0.84 0828 2.57 SA 1516 0.39 2142 2.31		31 0429 2.52 1021 1.16 SU 1543 2.15 2215 0.50	
8 0130 0.90 0753 2.40 FR 1426 0.86 2024 2.04		16 0350 2.60 0915 1.23 SA 1445 2.34 2130 0.19		24 0319 1.02 0906 2.50 SU 1607 0.35 2247 2.30			

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Datum is Lowest Astronomical Tide

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

Portland

Time Differences for Supplementary Locations – based on Portland

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

EXTRA TIDES FOR PORTLAND 2023

PORTLAND							
Month	Day	Time	Ht(m)	Month	Day	Time	Ht(m)
Apr	14	1806	0.91	Nov	9	0029	0.72
		2002	0.90			0450	0.65
	28	2252	0.83		24	0557	0.63
		2347	0.83			0930	0.67
May	11	2226	0.86				
		2344	0.86				

Portland Datums

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

AHD metres	Predominantly diurnal tides	Chart Datum metres
1.01	Highest recorded tide 28/06/2014 (1982-2021)	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
0.000	Australian Height Datum	0.597
-0.08	Mean Higher Low Water (MHLW)	0.51
-0.34	Mean Lower Low Water (MLLW)	0.26
-0.597	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-0.90	Lowest recorded tide 26/11/2003 (1982-2021)	-0.30

PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2023

Time	m	Time	m	Time	m	Time	m
1 0336 0.83 1140 0.37 SU		9 0159 1.19 0908 0.52 1257 0.64 1852 0.24 MO		17 0221 0.80 1118 0.36 TU		25 0233 1.10 0915 0.53 1332 0.70 1943 0.25 WE	
2 0200 0.82 1238 0.34 MO 2349 0.91		10 0223 1.17 0916 0.52 1327 0.67 1922 0.25 TU		18 0002 0.90 1139 0.34 WE		26 0244 1.03 0914 0.46 1422 0.77 2016 0.33 TH	
3 1354 0.33 2350 1.01 TU		11 0245 1.13 0931 0.50 1359 0.69 1950 0.29 WE		19 0011 1.03 1220 0.32 TH		27 0254 0.97 0926 0.37 1513 0.80 2046 0.44 FR	
4 1509 0.31 WE		12 0305 1.09 0949 0.48 1434 0.70 2017 0.35 TH		20 0035 1.13 1506 0.29 FR		28 0304 0.93 0943 0.29 1608 0.81 2113 0.55 SA	
5 0013 1.09 1614 0.29 TH		13 0323 1.03 1009 0.46 1515 0.70 2044 0.42 FR		21 0103 1.21 1630 0.24 SA		29 0310 0.90 1005 0.24 1713 0.80 2134 0.66 SU	
6 0039 1.14 0851 0.53 FR 1041 0.54 1703 0.27		14 0338 0.97 1029 0.44 1606 0.71 2110 0.52 SA		22 0131 1.24 1732 0.20 SU		30 0302 0.87 1031 0.23 1852 0.79 2144 0.76 MO	
7 0106 1.18 0853 0.53 SA 1145 0.57 1745 0.25 ○		15 0347 0.90 1047 0.41 1717 0.72 2133 0.63 SU		23 0157 1.22 1006 0.52 1140 0.53 1823 0.18 MO		31 0230 0.86 1101 0.25 TU	
8 0132 1.19 0901 0.52 SU 1225 0.61 1820 0.24		16 0339 0.83 1104 0.39 1936 0.75 2110 0.75 MO		24 0217 1.17 0943 0.55 TU 1242 0.62 1905 0.19			

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PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

FEBRUARY - 2023

Time	m	Time	m	Time	m	Time	m
1 0056 0.89 1136 0.31 WE		9 0224 1.09 0856 0.41 TH 1412 0.79 2005 0.31		17 0033 1.03 1030 0.26 FR		25 0213 0.93 0839 0.21 SA 1509 0.96 2055 0.50	
2 0023 0.96 1239 0.36 TH		10 0238 1.04 0908 0.37 FR 1443 0.82 2031 0.37		18 0055 1.11 1030 0.31 SA		26 0224 0.91 0856 0.15 SU 1549 0.96 2116 0.59	
3 0031 1.03 1607 0.38 FR		11 0250 0.99 0921 0.34 SA 1515 0.85 2057 0.44		19 0115 1.16 1013 0.39 SU 1218 0.41 1722 0.31		27 0230 0.89 0917 0.14 MO 1632 0.92 2133 0.67	
4 0050 1.08 0900 0.48 SA 1145 0.51 1721 0.34		12 0300 0.93 0932 0.31 SU 1552 0.86 2122 0.54		20 0131 1.16 0914 0.46 MO 1227 0.52 1815 0.26		28 0229 0.87 0941 0.18 TU 1725 0.86 2142 0.75	
5 0111 1.12 0844 0.48 SU 1220 0.57 1804 0.29		13 0303 0.88 0943 0.28 MO 1636 0.86 2144 0.64		21 0144 1.12 0849 0.49 TU 1250 0.64 1856 0.24			
6 0130 1.14 0843 0.47 MO 1248 0.63 1840 0.26		14 0249 0.83 0954 0.25 TU 1740 0.85 2150 0.76		22 0153 1.06 0824 0.47 WE 1319 0.76 1930 0.27			
7 0150 1.14 0841 0.46 TU 1315 0.69 1910 0.26		15 0158 0.83 1007 0.24 WE		23 0159 1.00 0818 0.39 TH 1353 0.86 2001 0.33			
8 0208 1.12 0845 0.44 WE 1343 0.74 1938 0.27		16 0032 0.91 1020 0.24 TH		24 0203 0.95 0827 0.29 FR 1430 0.93 2030 0.41			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0210 0.86 1003 0.24 WE 1930 0.81 2029 0.81		9 0138 1.04 0800 0.37 TH 1339 0.89 1942 0.33		17 0025 0.94 0929 0.24 FR		25 0118 0.88 0736 0.20 SA 1419 1.11 2030 0.52	
2 0120 0.87 1020 0.32 TH		10 0149 1.00 0809 0.33 FR 1404 0.95 2009 0.38		18 0026 1.02 0930 0.31 SA		26 0130 0.88 0751 0.14 SU 1451 1.12 2054 0.58	
3 0036 0.92 1015 0.40 FR		11 0200 0.96 0818 0.29 SA 1431 1.00 2035 0.44		19 0043 1.07 0914 0.39 SU 1352 0.49 1654 0.46		27 0144 0.88 0812 0.13 MO 1525 1.09 2115 0.65	
4 0034 0.98 0911 0.45 SA 1318 0.50 1642 0.47		12 0208 0.91 0827 0.25 SU 1459 1.03 2100 0.51		20 0056 1.07 0819 0.46 MO 1240 0.58 1751 0.39		28 0152 0.87 0834 0.16 TU 1559 1.03 2131 0.70	
5 0045 1.03 0817 0.47 SU 1230 0.57 1737 0.41		13 0215 0.87 0836 0.22 MO 1530 1.03 2124 0.60		21 0100 1.04 0750 0.48 TU 1237 0.71 1830 0.35		29 0155 0.86 0858 0.22 WE 1636 0.95 2141 0.76	
6 0058 1.06 0804 0.46 MO 1235 0.65 1814 0.35		14 0214 0.84 0848 0.20 TU 1605 1.00 2139 0.70		22 0104 0.99 0725 0.45 WE 1256 0.85 1904 0.36		30 0139 0.84 0917 0.30 TH 1730 0.87 2130 0.81	
7 0111 1.07 0757 0.44 TU 1253 0.74 1845 0.32		15 0155 0.83 0903 0.19 WE 1650 0.94 2136 0.80		23 0108 0.93 0719 0.37 TH 1321 0.97 1935 0.39		31 0055 0.86 0927 0.38 FR	
8 0124 1.07 0753 0.41 WE 1315 0.82 1915 0.31		16 0112 0.86 0918 0.20 TH 1847 0.87 2000 0.86		24 0111 0.90 0726 0.28 FR 1349 1.06 2003 0.45			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0010 0.89 0902 0.46 SA		9 0113 0.86 0723 0.26 SU 1415 1.18 2039 0.56		17 0003 0.97 0725 0.52 MO 1254 0.67 1716 0.57		25 0108 0.85 0734 0.20 TU 1505 1.19 2120 0.71	
2 0006 0.94 0758 0.50 SU 1318 0.62 1649 0.57		10 0119 0.83 0732 0.22 MO 1442 1.19 2105 0.63		18 0002 0.94 0643 0.53 TU 1215 0.80 1801 0.52		26 0121 0.85 0800 0.25 WE 1537 1.12 2145 0.75	
3 0012 0.97 0720 0.50 MO 1234 0.69 1737 0.51		11 0124 0.82 0746 0.19 TU 1512 1.16 2130 0.71		19 0002 0.90 0615 0.48 WE 1224 0.94 1836 0.50		27 0129 0.84 0825 0.32 TH 1612 1.04 2209 0.79	
4 0021 0.99 0704 0.48 TU 1229 0.79 1811 0.46		12 0117 0.82 0805 0.19 WE 1546 1.10 2145 0.79		20 0006 0.86 0613 0.40 TH 1245 1.07 ● 1907 0.52		28 0110 0.83 0845 0.39 FR 1656 0.95 *●	
5 0031 0.99 0655 0.45 WE 1243 0.89 1843 0.43		13 0050 0.84 0826 0.21 TH 1630 1.01 ● 2130 0.86		21 0010 0.83 0621 0.31 FR 1310 1.17 1935 0.55		29 0853 0.48 1907 0.88 SA	
6 0045 0.97 0659 0.40 TH 1302 0.99 ○ 1913 0.43		14 0020 0.89 0843 0.26 FR 2343 0.94 *		22 0019 0.83 0632 0.24 SA 1336 1.23 2002 0.59		30 0814 0.55 2236 0.90 SU	
7 0057 0.94 0706 0.35 FR 1326 1.07 1942 0.45		15 0850 0.35 2351 0.97 SA		23 0034 0.84 0648 0.19 SU 1404 1.25 2029 0.63			
8 0106 0.90 0715 0.31 SA 1349 1.14 2011 0.50		16 0836 0.44 SU		24 0052 0.84 0710 0.18 MO 1433 1.23 2055 0.67			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0638 0.58 1258 0.73 MO 1631 0.70 2301 0.91		9 0026 0.79 0647 0.23 TU 1434 1.29 2122 0.76		17 0448 0.54 1146 0.99 WE 1819 0.67 2233 0.78		25 0106 0.83 0741 0.35 TH 1529 1.18 2206 0.77	
2 0601 0.56 1213 0.82 TU 1729 0.64 2321 0.91		10 0026 0.80 0711 0.22 WE 1507 1.23 2151 0.81		18 0453 0.46 1205 1.11 TH 1854 0.66 2246 0.77		26 0126 0.82 0809 0.41 FR 1602 1.11 2251 0.78	
3 0546 0.52 1209 0.94 WE 1808 0.60 2338 0.89		11 0003 0.83 0737 0.24 TH 1545 1.15 *		19 0508 0.38 1231 1.22 FR 1923 0.67 2306 0.78		27 0134 0.80 0833 0.49 SA 1640 1.04	
4 0550 0.47 1224 1.05 TH 1843 0.58 2353 0.87		12 0804 0.30 1630 1.05 FR		20 0527 0.31 1258 1.28 SA 1947 0.68 ● 2330 0.79		28 0849 0.57 1725 0.97 SU ●	
5 0558 0.42 1245 1.16 FR 1916 0.57		13 0827 0.40 1736 0.95 SA ●		21 0548 0.27 1326 1.32 SU 2011 0.70 2357 0.80		29 0802 0.66 1836 0.91 MO	
6 0004 0.83 0607 0.36 SA 1309 1.24 ○ 1949 0.60		14 0830 0.51 2055 0.88 SU		22 0614 0.26 1354 1.31 MO 2036 0.72		30 0421 0.66 1252 0.82 TU 1541 0.82 2012 0.86	
7 0012 0.80 0617 0.31 SU 1335 1.30 2021 0.64		15 0650 0.62 2200 0.84 MO		23 0022 0.82 0641 0.27 TU 1425 1.29 2103 0.73		31 0413 0.61 1141 0.93 WE 1738 0.77 2131 0.82	
8 0019 0.78 0630 0.26 MO 1403 1.31 2052 0.69		16 0512 0.61 1200 0.85 TU 1731 0.70 2219 0.81		24 0045 0.83 0711 0.30 WE 1456 1.24 2133 0.75			

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PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2023

Time	m	Time	m	Time	m	Time	m
1 TH 0421 0.56 1144 1.05 1833 0.72 2212 0.78		9 FR 0730 0.33 1546 1.16 2253 0.83 2347 0.83		17 SA 0409 0.39 1224 1.26 2028 0.72 2157 0.73		25 SU 0247 0.80 0841 0.54 1609 1.09 2306 0.68	
2 FR 0433 0.50 1204 1.17 1920 0.69 2235 0.75		10 SA 0806 0.41 1615 1.07 2313 0.79		18 SU 0446 0.36 1254 1.30 2041 0.72 2254 0.75		26 MO 0346 0.78 0908 0.63 1628 1.02 2344 0.66	
3 SA 0449 0.44 1230 1.27 2005 0.67 2251 0.72		11 SU 0122 0.80 0840 0.53 1642 0.99 2357 0.73		19 MO 0523 0.34 1324 1.32 2052 0.72 2339 0.77		27 TU 0529 0.78 0931 0.73 1638 0.96	
4 SU 0507 0.38 1300 1.34 2052 0.69 2305 0.72		12 MO 0341 0.75 0907 0.67 1658 0.91		20 TU 0600 0.34 1353 1.31 2101 0.72		28 WE 0029 0.63 1557 0.89	
5 MO 0528 0.32 1332 1.37 2143 0.72 2315 0.73		13 TU 0059 0.66 1552 0.86		21 WE 0018 0.79 0634 0.35 1423 1.29 2117 0.73		29 TH 0120 0.59 1112 0.97	
6 TU 0552 0.28 1406 1.36 2247 0.76 2312 0.76		14 WE 0158 0.58 1119 0.96		22 TH 0052 0.81 0708 0.37 1452 1.25 2140 0.72		30 FR 0211 0.55 1128 1.10	
7 WE 0621 0.26 1441 1.32		15 TH 0245 0.50 1127 1.09		23 FR 0126 0.81 0741 0.41 1520 1.20 2206 0.71			
8 TH 0655 0.28 1515 1.25		16 FR 0329 0.44 1154 1.19		24 SA 0203 0.81 0812 0.47 1545 1.15 2234 0.70			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0257 0.50 1158 1.21 SA		9 0230 0.84 0826 0.50 SU 1535 1.06 2213 0.61		17 0439 0.41 1300 1.25 MO 2056 0.67 2312 0.69		25 0357 0.87 0917 0.63 TU 1536 1.01 2225 0.51	
2 0339 0.44 1231 1.30 SU		10 0343 0.85 0902 0.62 MO 1545 1.00 ● 2236 0.53		18 0532 0.39 1326 1.27 TU 2056 0.67 ●		26 0455 0.88 0945 0.73 WE 1534 0.95 ● 2241 0.49	
3 0420 0.38 1307 1.35 MO ○		11 0511 0.86 0935 0.75 TU 1541 0.96 2307 0.47		19 0007 0.74 0615 0.38 WE 1352 1.27 2057 0.66		27 0621 0.90 1010 0.84 TH 1449 0.91 2257 0.47	
4 0501 0.34 1342 1.37 TU		12 0722 0.89 1000 0.87 WE 1502 0.94 2348 0.44		20 0046 0.78 0651 0.37 TH 1415 1.25 2102 0.65		28 1154 0.97 2317 0.46 FR	
5 0543 0.30 1415 1.35 WE		13 1149 0.99 TH		21 0121 0.81 0723 0.39 FR 1437 1.22 2115 0.63		29 1155 1.09 2350 0.44 SA	
6 0625 0.30 1444 1.29 TH 2236 0.76		14 0046 0.43 1138 1.08 FR		22 0156 0.83 0753 0.42 SA 1457 1.18 2131 0.60		30 1222 1.19 SU	
7 0020 0.77 0706 0.33 FR 1506 1.21 2158 0.75		15 0207 0.43 1201 1.16 SA		23 0231 0.85 0821 0.48 SU 1514 1.13 2149 0.57		31 0149 0.44 1252 1.27 MO	
8 0124 0.81 0747 0.40 SA 1522 1.13 2158 0.69		16 0328 0.43 1230 1.22 SU		24 0311 0.86 0849 0.55 MO 1527 1.07 2207 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

AUGUST - 2023

Time	m	Time	m	Time	m	Time	m
1 0410 0.40 1320 1.31 TU		9 0445 0.95 0930 0.76 WE 1445 0.96 2203 0.31		17 0032 0.75 0630 0.37 TH 1335 1.19 2016 0.56		25 0507 0.95 0950 0.82 FR 1351 0.89 2145 0.34	
2 0522 0.35 1345 1.31 WE 2151 0.63 ○ 2334 0.64		10 0604 0.93 0945 0.86 TH 1424 0.96 2234 0.33		18 0100 0.81 0702 0.36 FR 1352 1.17 2021 0.53		26 0711 0.93 0842 0.92 SA 1223 0.96 2158 0.35	
3 0616 0.32 1407 1.26 TH 2130 0.66		11 1316 0.97 2311 0.38 FR		19 0130 0.86 0730 0.38 SA 1407 1.13 2031 0.50		27 1213 1.06 2204 0.37 SU	
4 0032 0.73 0700 0.32 FR 1422 1.19 2101 0.65		12 1221 1.03 SA		20 0158 0.91 0758 0.42 SU 1420 1.09 2044 0.46		28 1232 1.15 2202 0.41 MO	
5 0119 0.82 0739 0.37 SA 1431 1.11 2056 0.58		13 0004 0.45 1223 1.09 SU		21 0228 0.94 0824 0.47 MO 1431 1.04 2056 0.43		29 1255 1.20 2136 0.48 TU	
6 0206 0.89 0813 0.45 SU 1437 1.05 2103 0.48		14 0334 0.49 1239 1.14 MO 2051 0.60 2320 0.62		22 0300 0.97 0849 0.54 TU 1440 0.99 2106 0.39		30 0014 0.50 0506 0.41 WE 1313 1.21 2047 0.54	
7 0255 0.94 0843 0.55 MO 1445 1.01 2116 0.39		15 0508 0.45 1258 1.17 TU 2023 0.60		23 0333 0.98 0915 0.62 WE 1444 0.94 2117 0.37		31 0014 0.61 0600 0.35 TH 1326 1.17 ○ 2025 0.56	
8 0346 0.96 0909 0.66 TU 1450 0.98 ● 2137 0.33		16 0002 0.69 0555 0.40 WE 1317 1.19 ● 2019 0.58		24 0414 0.97 0937 0.72 TH 1434 0.90 ● 2130 0.35			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0034 0.73 0642 0.33 FR 1335 1.10 2000 0.54		9 0640 0.87 0854 0.86 SA 1306 0.92 2200 0.38		17 0121 0.97 0730 0.40 SU 1329 1.00 1940 0.38		25 1156 1.01 2056 0.36 MO	
2 0102 0.85 0717 0.35 SA 1340 1.03 1954 0.47		10 1223 0.96 2159 0.47 SU		18 0145 1.03 0757 0.44 MO 1338 0.95 1949 0.34		26 1215 1.06 2030 0.43 TU	
3 0134 0.95 0749 0.41 SU 1342 0.97 1958 0.37		11 1217 1.00 2038 0.53 MO		19 0211 1.07 0823 0.49 TU 1345 0.91 1958 0.30		27 0121 0.55 0439 0.51 WE 1230 1.07 1945 0.48	
4 0209 1.03 0818 0.50 MO 1346 0.94 2006 0.28		12 0038 0.58 0432 0.53 TU 1225 1.04 1943 0.54		20 0237 1.08 0847 0.56 WE 1351 0.88 2007 0.27		28 0023 0.63 0535 0.43 TH 1238 1.03 1918 0.50	
5 0245 1.06 0843 0.59 TU 1355 0.93 2022 0.21		13 0002 0.66 0526 0.46 WE 1237 1.07 1931 0.52		21 0306 1.08 0911 0.63 TH 1352 0.85 2020 0.25		29 0018 0.76 0615 0.39 FR 1243 0.97 ○ 1856 0.47	
6 0326 1.05 0902 0.67 WE 1400 0.93 2045 0.19		14 0015 0.74 0602 0.41 TH 1250 1.08 1923 0.50		22 0339 1.05 0929 0.72 FR 1334 0.84 2036 0.25		30 0036 0.90 0650 0.39 SA 1245 0.91 1850 0.39	
7 0408 1.01 0916 0.75 TH 1359 0.92 ● 2112 0.22		15 0034 0.82 0633 0.38 FR 1303 1.06 ● 1923 0.46		23 0421 0.99 0931 0.81 SA 1251 0.86 ● 2050 0.27			
8 0459 0.94 0925 0.81 FR 1346 0.92 2138 0.29		16 0057 0.90 0702 0.38 SA 1316 1.04 1930 0.42		24 0545 0.90 0820 0.89 SU 1158 0.93 2058 0.30			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0100 1.02 0722 0.42 SU 1245 0.86 1853 0.30		9 1147 0.87 2023 0.48 MO		17 0130 1.16 0758 0.49 TU 1251 0.81 1853 0.24		25 1133 0.91 1845 0.48 WE	
2 0127 1.11 0750 0.49 MO 1249 0.84 1900 0.20		10 1140 0.90 1905 0.51 TU		18 0153 1.19 0826 0.54 WE 1258 0.78 1904 0.21		26 0032 0.67 0507 0.55 TH 1139 0.87 1809 0.48	
3 0157 1.16 0816 0.55 TU 1300 0.84 1915 0.14		11 0037 0.65 0449 0.57 WE 1146 0.92 1839 0.50		19 0219 1.19 0852 0.60 TH 1303 0.77 1919 0.19		27 0001 0.79 0553 0.50 FR 1141 0.82 1746 0.44	
4 0228 1.16 0840 0.62 WE 1310 0.85 1937 0.12		12 0006 0.73 0530 0.51 TH 1157 0.94 1825 0.47		20 0247 1.16 0918 0.67 FR 1259 0.77 1938 0.19		28 0006 0.93 0630 0.48 SA 1144 0.76 1743 0.36	
5 0300 1.12 0900 0.68 TH 1318 0.86 2002 0.15		13 0009 0.83 0602 0.46 FR 1209 0.93 1822 0.42		21 0319 1.09 0943 0.74 SA 1229 0.78 1957 0.21		29 0027 1.07 0701 0.49 SU 1144 0.73 ○ 1748 0.26	
6 0335 1.05 0913 0.72 FR 1323 0.85 ● 2029 0.22		14 0024 0.93 0632 0.44 SA 1222 0.91 1828 0.38		22 0400 1.00 0949 0.81 SU 1151 0.82 ● 2011 0.26		30 0051 1.17 0730 0.52 MO 1149 0.72 1758 0.18	
7 0413 0.96 0921 0.76 SA 1313 0.84 2051 0.31		15 0045 1.02 0701 0.43 SU 1234 0.88 ● 1836 0.33		23 0507 0.89 0850 0.86 MO 1058 0.87 2015 0.33		31 0116 1.23 0755 0.56 TU 1202 0.73 1814 0.12	
8 0505 0.86 0916 0.80 SU 1232 0.84 2100 0.40		16 0106 1.10 0730 0.45 MO 1244 0.84 1845 0.28		24 1116 0.91 1955 0.42 TU			

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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

NOVEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0144 1.24 0819 0.61 WE 1219 0.75 1837 0.10		9 1028 0.79 1718 0.49 TH 2355 0.81 *		17 0215 1.24 0917 0.64 FR 1216 0.69 1849 0.16		25 0644 0.59 0949 0.63 SA 1621 0.36 2355 1.05	
2 0213 1.21 0844 0.64 TH 1236 0.77 1903 0.13		10 0536 0.59 1054 0.78 FR 1715 0.44 2356 0.92		18 0245 1.18 0950 0.69 SA 1200 0.71 1914 0.18		26 0722 0.57 1003 0.61 SU 1634 0.27	
3 0243 1.16 0908 0.67 FR 1252 0.78 1931 0.18		11 0611 0.55 1115 0.77 SA 1720 0.39		19 0320 1.10 1033 0.73 SU 1117 0.73 1938 0.23		27 0018 1.16 0754 0.57 MO 1027 0.61 ○ 1654 0.20	
4 0315 1.08 0933 0.69 SA 1304 0.77 1959 0.26		12 0010 1.03 0643 0.52 SU 1132 0.74 1730 0.33		20 0359 1.00 1958 0.32 MO ○		28 0045 1.23 0818 0.58 TU 1055 0.63 1718 0.15	
5 0348 0.99 1001 0.72 SU 1256 0.75 ● 2020 0.35		13 0030 1.13 0715 0.51 MO 1145 0.71 ● 1741 0.28		21 0444 0.90 1957 0.43 TU		29 0113 1.25 0830 0.60 WE 1126 0.65 1746 0.14	
6 0428 0.90 2023 0.44 MO		14 0053 1.21 0745 0.52 TU 1154 0.69 1753 0.23		22 0556 0.80 1819 0.53 WE		30 0140 1.25 0841 0.62 TH 1157 0.68 1817 0.14	
7 0548 0.81 1919 0.52 TU		15 0118 1.25 0815 0.55 WE 1203 0.67 1808 0.19		23 0301 0.70 0405 0.70 TH 0808 0.72 1643 0.52			
8 0938 0.79 1748 0.52 WE		16 0145 1.26 0846 0.59 TH 1213 0.67 1827 0.17		24 0001 0.78 1618 0.45 FR 2343 0.92 *			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0209 1.21 0900 0.62 FR 1227 0.70 1849 0.18		9 1543 0.44 2343 0.97 SA		17 0257 1.17 1055 0.64 SU 1227 0.65 1915 0.21		25 1529 0.26 MO	
2 0239 1.16 0925 0.63 SA 1256 0.70 1921 0.23		10 0726 0.60 0906 0.61 SU 1602 0.38 2359 1.08		18 0324 1.09 1037 0.64 MO 1311 0.66 1949 0.29		26 0022 1.15 1619 0.23 TU	
3 0310 1.09 0956 0.63 SU 1325 0.69 1950 0.30		11 0753 0.56 1000 0.58 MO 1625 0.32		19 0347 1.00 1046 0.61 TU 1411 0.65 2020 0.40		27 0050 1.20 0922 0.56 WE 1006 0.56 ○ 1705 0.21	
4 0340 1.02 1032 0.62 MO 1353 0.67 2015 0.39		12 0023 1.17 0825 0.54 TU 1031 0.56 1649 0.27		20 0404 0.91 1109 0.56 WE 1550 0.63 ● 2044 0.53		28 0118 1.21 0913 0.56 TH 1125 0.59 1747 0.20	
5 0408 0.95 1123 0.62 TU 1419 0.63 ● 2030 0.48		13 0050 1.24 0900 0.54 WE 1055 0.56 ● 1715 0.22		21 0408 0.83 1141 0.49 TH		29 0145 1.21 0914 0.56 FR 1215 0.63 1826 0.20	
6 0432 0.88 1929 0.57 WE		14 0121 1.28 0936 0.55 TH 1115 0.57 1742 0.18		22 0310 0.78 1228 0.42 FR		30 0212 1.18 0915 0.56 SA 1259 0.66 1901 0.23	
7 0444 0.80 1508 0.54 TH		15 0153 1.28 1013 0.58 FR 1134 0.59 1811 0.16		23 0001 0.85 1329 0.36 SA 2345 0.97		31 0238 1.15 0928 0.54 SU 1337 0.68 1934 0.27	
8 0142 0.76 1526 0.49 FR 2347 0.85		16 0225 1.24 1044 0.62 SA 1156 0.62 1843 0.17		24 1431 0.31 2358 1.07 SU			

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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	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<i>Fairway Buoy</i>	<i>(1 00)</i>	2.5	1.8	1.2	0.5
<i>Flinders Pier</i>	<i>(0 55)</i>	2.5	1.8	1.2	0.5
<i>No. 11 Buoy</i>	<i>(0 30)</i>	2.7	2.0	1.2	0.5
<i>Newhaven Pier</i>	<i>(0 25)</i>	2.5	2.0	1.2	0.5
<i>Cowes Pier</i>	<i>(0 10)</i>	2.7	2.0	1.2	0.5
Stony Point	0 00	2.8	2.4	1.1	0.6
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 (1981-2021)	3.69
1.69	Highest Astronomical Tide (HAT)	3.38
1.20	Mean High Water Springs (MHWS)	2.89
0.76	Mean High Water Neaps (MHWN)	2.45
0.000	Australian Height Datum	1.690
-0.58	Mean Low Water Neaps (MLWN)	1.11
-1.02	Mean Low Water Springs (MLWS)	0.67
-1.690	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.99	Lowest recorded tide 17/05/1991 (1981-2021)	-0.30

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

WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2023

Time	m	Time	m	Time	m	Time	m
1 0044 0.82 0721 2.81 SU 1318 0.53 2015 2.64		9 0237 2.90 0823 1.16 MO 1410 2.41 2008 0.56		17 0036 1.02 0656 2.67 TU 1301 0.58 2001 2.58		25 0331 3.09 0910 0.84 WE 1527 2.74 2115 0.33	
2 0133 1.00 0800 2.68 MO 1403 0.54 2114 2.62		10 0317 2.92 0905 1.09 TU 1455 2.47 2049 0.57		18 0123 1.15 0733 2.59 WE 1344 0.52 2100 2.60		26 0419 3.11 1000 0.65 TH 1626 2.83 2207 0.40	
3 0228 1.16 0843 2.55 TU 1452 0.56 2213 2.63		11 0354 2.93 0942 1.02 WE 1537 2.50 2128 0.61		19 0216 1.28 0818 2.51 TH 1434 0.48 2207 2.64		27 0502 3.08 1046 0.49 FR 1721 2.87 2256 0.52	
4 0327 1.28 0932 2.44 WE 1545 0.59 2313 2.67		12 0427 2.91 1015 0.95 TH 1617 2.52 2203 0.66		20 0320 1.39 0917 2.44 FR 1536 0.46 2320 2.71		28 0542 3.02 1130 0.39 SA 1814 2.87 2343 0.67	
5 0431 1.35 1029 2.35 TH 1641 0.61		13 0457 2.88 1047 0.88 FR 1658 2.53 2238 0.73		21 0435 1.44 1030 2.39 SA 1649 0.43		29 0618 2.93 1212 0.35 SU 1903 2.83 ☉	
6 0010 2.72 0537 1.35 FR 1129 2.31 1739 0.61		14 0525 2.85 1119 0.80 SA 1738 2.54 2315 0.80		22 0031 2.82 0557 1.39 SU 1151 2.42 ● 1806 0.38		30 0028 0.83 0652 2.82 MO 1252 0.36 1951 2.76	
7 0104 2.79 0640 1.31 SA 1227 2.31 ○ 1833 0.59		15 0553 2.80 1151 0.72 SU 1822 2.56 ● 2354 0.90		23 0139 2.93 0711 1.25 MO 1310 2.50 1915 0.32		31 0112 0.98 0726 2.69 TU 1331 0.42 2039 2.68	
8 0153 2.85 0735 1.24 SU 1321 2.36 1923 0.57		16 0623 2.75 1225 0.65 MO 1909 2.57		24 0238 3.03 0815 1.05 TU 1422 2.62 2017 0.30			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0156 1.12 0802 2.56 WE 1413 0.51 2130 2.61		9 0329 2.82 0918 0.95 TH 1527 2.54 2113 0.71		17 0151 1.25 0747 2.53 FR 1405 0.42 2134 2.63		25 0436 3.00 1023 0.32 SA 1711 3.03 2243 0.63	
2 0245 1.25 0842 2.43 TH 1458 0.61 2224 2.56		10 0400 2.84 0951 0.84 FR 1608 2.61 2149 0.74		18 0248 1.35 0845 2.45 SA 1505 0.47 2245 2.62		26 0514 2.95 1104 0.25 SU 1756 3.01 2326 0.74	
3 0340 1.35 0931 2.31 FR 1552 0.70 2324 2.55		11 0430 2.83 1023 0.72 SA 1648 2.67 2226 0.77		19 0401 1.40 1003 2.39 SU 1623 0.53		27 0547 2.87 1143 0.25 MO 1839 2.95 ●	
4 0445 1.40 1033 2.23 SA 1655 0.75		12 0459 2.82 1056 0.62 SU 1728 2.72 2303 0.82		20 0002 2.68 0529 1.34 MO 1135 2.40 ● 1747 0.53		28 0006 0.85 0619 2.77 TU 1219 0.31 1919 2.85	
5 0024 2.58 0556 1.39 SU 1145 2.21 1800 0.76		13 0527 2.79 1128 0.53 MO 1809 2.75 2342 0.90		21 0113 2.78 0649 1.15 TU 1303 2.52 1903 0.50			
6 0120 2.64 0702 1.31 MO 1252 2.26 ○ 1859 0.74		14 0557 2.74 1201 0.46 TU 1853 2.75 ●		22 0215 2.90 0755 0.91 WE 1419 2.70 2009 0.47			
7 0210 2.72 0757 1.20 TU 1351 2.35 1949 0.71		15 0022 1.01 0629 2.68 WE 1237 0.42 1940 2.72		23 0308 2.98 0850 0.66 TH 1524 2.86 2105 0.49			
8 0252 2.78 0841 1.08 WE 1442 2.45 2033 0.70		16 0104 1.12 0704 2.61 TH 1316 0.40 2032 2.67		24 0355 3.01 0939 0.46 FR 1620 2.98 2156 0.55			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0045 0.97 0650 2.66 WE 1256 0.41 1959 2.73		9 0215 2.64 0806 1.01 TH 1428 2.52 2015 0.87		17 0047 1.13 0644 2.59 FR 1255 0.41 2009 2.71		25 0323 2.88 0910 0.34 SA 1605 3.13 2140 0.74	
2 0123 1.09 0722 2.54 TH 1332 0.54 2041 2.61		10 0254 2.71 0844 0.84 FR 1514 2.67 2056 0.85		18 0132 1.22 0730 2.51 SA 1344 0.49 2107 2.63		26 0403 2.87 0952 0.26 SU 1650 3.15 2224 0.78	
3 0204 1.21 0759 2.41 FR 1414 0.67 2129 2.50		11 0328 2.74 0918 0.69 SA 1555 2.79 2133 0.85		19 0228 1.29 0833 2.43 SU 1445 0.61 2215 2.58		27 0439 2.83 1031 0.25 MO 1730 3.11 2303 0.84	
4 0252 1.32 0844 2.29 SA 1503 0.81 2228 2.43		12 0359 2.76 0953 0.57 SU 1635 2.88 2212 0.85		20 0341 1.30 0959 2.38 MO 1606 0.72 2330 2.60		28 0512 2.78 1109 0.29 TU 1808 3.02 2341 0.92	
5 0354 1.40 0945 2.19 SU 1609 0.92 2335 2.42		13 0429 2.76 1028 0.46 MO 1715 2.93 2250 0.89		21 0508 1.19 1135 2.45 TU 1735 0.76		29 0543 2.71 1145 0.38 WE 1843 2.91 ☉	
6 0510 1.40 1106 2.15 MO 1724 0.96		14 0500 2.74 1102 0.40 TU 1755 2.93 2329 0.95		22 0042 2.68 0627 0.97 WE 1303 2.63 ● 1853 0.74		30 0015 1.00 0615 2.62 TH 1218 0.50 1917 2.78	
7 0038 2.48 0623 1.32 TU 1228 2.22 ○ 1832 0.95		15 0532 2.70 1138 0.37 WE 1836 2.89 ●		23 0144 2.78 0730 0.72 TH 1415 2.85 1958 0.71		31 0050 1.10 0646 2.51 FR 1253 0.64 1954 2.65	
8 0131 2.56 0721 1.17 WE 1333 2.36 1929 0.91		16 0007 1.04 0606 2.65 TH 1215 0.37 1920 2.81		24 0237 2.86 0824 0.50 FR 1515 3.03 2052 0.71			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0127 1.20 0723 2.39 SA 1330 0.79 2036 2.52		9 0247 2.66 0841 0.57 SU 1537 3.00 2115 0.99		17 0218 1.19 0841 2.43 MO 1434 0.83 2147 2.60		25 0401 2.73 0957 0.35 TU 1701 3.14 2238 0.98	
2 0210 1.29 0807 2.28 SU 1415 0.95 2128 2.42		10 0324 2.69 0919 0.46 MO 1618 3.08 2154 0.98		18 0330 1.13 1010 2.44 TU 1556 0.97 2258 2.59		26 0435 2.70 1034 0.42 WE 1736 3.05 2314 1.02	
3 0306 1.36 0910 2.19 MO 1517 1.09 2231 2.37		11 0400 2.70 0958 0.38 TU 1700 3.10 2234 0.99		19 0449 0.99 1141 2.58 WE 1723 1.02		27 0509 2.65 1110 0.51 TH 1808 2.95 2347 1.08	
4 0420 1.36 1035 2.17 TU 1639 1.18 2339 2.38		12 0434 2.70 1037 0.35 WE 1741 3.07 2314 1.03		20 0006 2.63 0600 0.79 TH 1258 2.79 ● 1839 1.01		28 0543 2.57 1144 0.64 FR 1841 2.83 ●	
5 0534 1.26 1202 2.27 WE 1758 1.18		13 0511 2.67 1116 0.36 TH 1822 2.99 ● 2354 1.09		21 0107 2.69 0700 0.59 FR 1402 3.00 1942 0.97		29 0020 1.14 0617 2.48 SA 1216 0.77 1914 2.71	
6 0038 2.45 0633 1.09 TH 1311 2.47 ○ 1900 1.13		14 0550 2.63 1157 0.42 FR 1905 2.88		22 0200 2.74 0751 0.43 SA 1457 3.15 2034 0.94		30 0055 1.21 0656 2.38 SU 1252 0.92 1950 2.60	
7 0127 2.54 0721 0.90 FR 1405 2.68 1950 1.07		15 0035 1.14 0633 2.57 SA 1240 0.53 1951 2.76		23 0245 2.75 0837 0.35 SU 1544 3.21 2119 0.94			
8 0210 2.61 0802 0.73 SA 1453 2.86 2033 1.02		16 0121 1.18 0729 2.49 SU 1330 0.67 2045 2.66		24 0325 2.75 0918 0.32 MO 1625 3.20 2200 0.95			

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

WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2023

Time	m	Time	m	Time	m	Time	m
1 0134 1.26 0744 2.29 MO 1334 1.08 2033 2.50		9 0249 2.65 0847 0.40 TU 1600 3.20 2134 1.12		17 0317 0.93 1018 2.59 WE 1544 1.19 2221 2.62		25 0403 2.63 1002 0.56 TH 1706 3.04 2248 1.13	
2 0224 1.28 0847 2.24 TU 1429 1.24 2126 2.43		10 0331 2.68 0931 0.36 WE 1644 3.20 2217 1.10		18 0424 0.80 1134 2.74 TH 1703 1.25 2326 2.60		26 0440 2.60 1038 0.66 FR 1738 2.96 2322 1.15	
3 0327 1.25 1008 2.27 WE 1545 1.35 2228 2.40		11 0414 2.69 1015 0.36 TH 1727 3.14 2300 1.09		19 0528 0.67 1242 2.92 FR 1816 1.24		27 0516 2.54 1112 0.77 SA 1809 2.87 2355 1.17	
4 0435 1.15 1130 2.41 TH 1709 1.39 2330 2.42		12 0458 2.68 1100 0.42 FR 1810 3.05 2344 1.09		20 0026 2.61 0625 0.55 SA 1340 3.07 ● 1918 1.20		28 0555 2.47 1145 0.89 SU 1840 2.78 ●	
5 0537 0.98 1240 2.62 FR 1820 1.35		13 0545 2.64 1145 0.53 SA 1852 2.94 ●		21 0119 2.63 0716 0.47 SU 1431 3.17 2010 1.16		29 0029 1.17 0637 2.41 MO 1221 1.02 1913 2.70	
6 0029 2.47 0630 0.80 SA 1337 2.84 ○ 1916 1.28		14 0029 1.08 0639 2.58 SU 1232 0.69 1936 2.84		22 0206 2.64 0801 0.44 MO 1516 3.19 2055 1.13		30 0105 1.16 0728 2.36 TU 1301 1.17 1948 2.62	
7 0119 2.54 0717 0.63 SU 1428 3.03 2006 1.21		15 0117 1.06 0743 2.53 MO 1326 0.87 2024 2.74		23 0247 2.65 0845 0.45 TU 1556 3.17 2135 1.11		31 0147 1.13 0829 2.36 WE 1353 1.31 2032 2.54	
8 0205 2.60 0802 0.50 MO 1515 3.15 2051 1.16		16 0214 1.01 0858 2.52 TU 1429 1.05 2119 2.66		24 0326 2.65 0924 0.49 WE 1632 3.12 2213 1.11			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0237 1.07 0939 2.42 TH 1458 1.44 2124 2.48		9 0402 2.72 0959 0.40 FR 1714 3.18 2248 1.05		17 0450 0.64 1215 2.92 SA 1743 1.40 2342 2.53		25 0459 2.53 1046 0.86 SU 1740 2.89 2331 1.10	
2 0335 0.98 1053 2.55 FR 1614 1.51 2224 2.45		10 0455 2.72 1048 0.50 SA 1757 3.10 2335 0.98		18 0547 0.60 1312 3.01 SU 1846 1.36 ●		26 0539 2.51 1121 0.96 MO 1808 2.83 ●	
3 0436 0.85 1201 2.74 SA 1730 1.51 2328 2.46		11 0551 2.70 1137 0.64 SU 1838 3.01 ●		19 0038 2.53 0641 0.58 MO 1402 3.06 1941 1.31		27 0003 1.05 0623 2.49 TU 1158 1.07 1838 2.78	
4 0536 0.71 1303 2.93 SU 1836 1.45 ○		12 0023 0.91 0651 2.67 MO 1228 0.82 1919 2.91		20 0129 2.54 0730 0.57 TU 1448 3.08 2029 1.26		28 0037 0.99 0712 2.49 WE 1239 1.19 1910 2.71	
5 0029 2.51 0633 0.56 MO 1400 3.09 1934 1.37		13 0111 0.85 0755 2.65 TU 1320 1.01 2002 2.81		21 0215 2.56 0815 0.59 WE 1530 3.07 2111 1.22		29 0115 0.93 0806 2.51 TH 1326 1.32 1948 2.64	
6 0126 2.57 0728 0.45 TU 1452 3.19 2026 1.29		14 0201 0.79 0901 2.67 WE 1418 1.18 2049 2.72		22 0258 2.58 0857 0.63 TH 1606 3.05 2150 1.19		30 0157 0.86 0907 2.57 FR 1421 1.44 2033 2.56	
7 0219 2.64 0819 0.38 WE 1542 3.23 2115 1.21		15 0255 0.73 1008 2.73 TH 1523 1.32 2143 2.63		23 0339 2.58 0935 0.69 FR 1640 3.00 2226 1.16			
8 0311 2.69 0910 0.36 TH 1629 3.22 2202 1.13		16 0352 0.68 1114 2.82 FR 1633 1.39 2242 2.57		24 0419 2.56 1012 0.77 SA 1712 2.95 2300 1.13			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0246 0.78 1014 2.66 SA 1526 1.53 2129 2.51		9 0457 2.82 1040 0.56 SU 1739 3.12 2323 0.74		17 0510 0.70 1238 2.83 MO 1809 1.45 2358 2.42		25 0526 2.61 1102 0.97 TU 1737 2.85 2337 0.85	
2 0344 0.71 1122 2.78 SU 1639 1.57 2233 2.48		10 0555 2.83 1130 0.71 MO 1818 3.04 ●		18 0608 0.71 1332 2.88 TU 1910 1.39 ●		26 0607 2.63 1140 1.05 WE 1805 2.80 ●	
3 0449 0.62 1229 2.91 MO 1753 1.54 ○ 2344 2.50		11 0009 0.65 0653 2.82 TU 1219 0.88 1857 2.95		19 0057 2.43 0702 0.70 WE 1421 2.92 2003 1.31		27 0009 0.78 0652 2.64 TH 1220 1.15 1836 2.74	
4 0556 0.52 1331 3.04 TU 1901 1.45		12 0054 0.60 0750 2.80 WE 1309 1.06 1935 2.84		20 0150 2.47 0752 0.70 TH 1503 2.94 2048 1.24		28 0044 0.71 0741 2.65 FR 1303 1.27 1912 2.67	
5 0052 2.56 0700 0.44 WE 1430 3.13 2001 1.32		13 0139 0.58 0846 2.78 TH 1400 1.21 2017 2.72		21 0238 2.51 0836 0.73 FR 1541 2.95 2128 1.16		29 0122 0.66 0835 2.66 SA 1351 1.38 1952 2.60	
6 0157 2.64 0759 0.39 TH 1523 3.19 2056 1.17		14 0225 0.60 0944 2.77 FR 1455 1.34 2103 2.61		22 0323 2.55 0915 0.77 SA 1614 2.93 2202 1.09		30 0208 0.62 0936 2.68 SU 1446 1.49 2045 2.53	
7 0259 2.72 0855 0.39 FR 1612 3.20 2147 1.02		15 0315 0.64 1042 2.77 SA 1556 1.43 2158 2.51		23 0405 2.57 0952 0.83 SU 1643 2.91 2234 1.01		31 0303 0.60 1044 2.72 MO 1555 1.55 2152 2.48	
8 0359 2.78 0947 0.45 SA 1657 3.18 2236 0.87		16 0412 0.68 1141 2.80 SU 1702 1.47 2258 2.44		24 0445 2.59 1027 0.89 MO 1710 2.88 2305 0.93			

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1	0412 0.57 1156 2.80 TU 1715 1.53 2311 2.49	9	0640 2.95 1204 0.89 WE 1829 2.92	17	0033 2.34 0641 0.83 TH 1351 2.74 1936 1.28	25	0631 2.78 1201 1.10 FR 1806 2.71
2	0528 0.53 1304 2.91 WE 1832 1.41 ○	10	0028 0.40 0730 2.89 TH 1248 1.04 1904 2.80	18	0133 2.41 0734 0.81 FR 1434 2.80 2021 1.15	26	0015 0.55 0715 2.74 SA 1241 1.20 1841 2.65
3	0031 2.55 0640 0.47 TH 1406 3.02 1939 1.22	11	0109 0.46 0818 2.81 FR 1333 1.18 1942 2.68	19	0225 2.51 0819 0.81 SA 1511 2.83 2100 1.03	27	0052 0.53 0805 2.69 SU 1324 1.31 1921 2.57
4	0146 2.67 0745 0.44 FR 1500 3.10 2037 1.00	12	0151 0.55 0908 2.72 SA 1420 1.30 2023 2.55	20	0311 2.59 0859 0.83 SU 1543 2.85 2132 0.91	28	0137 0.54 0902 2.64 MO 1415 1.41 2014 2.50
5	0254 2.79 0844 0.45 SA 1549 3.14 2130 0.78	13	0237 0.66 1000 2.65 SU 1515 1.41 2113 2.43	21	0352 2.66 0935 0.86 MO 1611 2.84 2204 0.81	29	0233 0.57 1010 2.63 TU 1522 1.46 2128 2.45
6	0357 2.90 0938 0.51 SU 1633 3.13 2217 0.60	14	0330 0.75 1100 2.61 MO 1618 1.47 2214 2.34	22	0430 2.72 1010 0.89 TU 1638 2.83 2236 0.71	30	0345 0.61 1123 2.67 WE 1645 1.42 2257 2.46
7	0454 2.96 1030 0.61 MO 1715 3.09 2302 0.47	15	0433 0.82 1201 2.62 TU 1730 1.47 2324 2.30	23	0509 2.76 1046 0.94 WE 1705 2.81 2308 0.63	31	0509 0.62 1235 2.77 TH 1809 1.24 ○
8	0548 2.98 1117 0.75 TU 1752 3.02 ○ 2346 0.40	16	0540 0.84 1300 2.67 WE 1839 1.39 ●	24	0549 2.78 1123 1.01 TH 1735 2.77 ○ 2341 0.58		

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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 - 2023

Time	m	Time	m	Time	m	Time	m
1 0025 2.57 0627 0.58 FR 1338 2.88 1918 0.99		9 0035 0.44 0742 2.78 SA 1302 1.12 1905 2.60		17 0210 2.58 0800 0.91 SU 1432 2.70 2023 0.85		25 0028 0.49 0740 2.70 MO 1303 1.24 1900 2.52	
2 0143 2.75 0735 0.55 SA 1432 2.98 2015 0.73		10 0115 0.58 0825 2.65 SU 1345 1.24 1944 2.46		18 0254 2.72 0840 0.90 MO 1505 2.74 2057 0.71		26 0114 0.55 0833 2.61 TU 1354 1.30 2000 2.45	
3 0250 2.93 0834 0.55 SU 1521 3.03 2106 0.51		11 0157 0.73 0913 2.53 MO 1432 1.35 2031 2.34		19 0334 2.83 0916 0.89 TU 1536 2.76 2130 0.60		27 0212 0.65 0938 2.56 WE 1500 1.30 2123 2.41	
4 0349 3.05 0927 0.60 MO 1604 3.03 2152 0.35		12 0248 0.87 1010 2.45 TU 1534 1.42 2135 2.24		20 0413 2.90 0952 0.90 WE 1606 2.76 2203 0.52		28 0328 0.75 1050 2.58 TH 1625 1.21 2259 2.48	
5 0442 3.11 1015 0.68 TU 1644 2.99 2235 0.27		13 0355 0.97 1115 2.43 WE 1651 1.42 2256 2.21		21 0451 2.94 1029 0.93 TH 1636 2.74 2238 0.46		29 0456 0.79 1201 2.65 FR 1747 0.99 ○	
6 0530 3.10 1100 0.78 WE 1720 2.93 2316 0.26		14 0512 1.01 1219 2.47 TH 1804 1.32		22 0530 2.93 1105 0.98 FR 1708 2.71 2313 0.45		30 0026 2.66 0616 0.77 SA 1305 2.75 1853 0.72	
7 0616 3.03 1143 0.88 TH 1756 2.84 ● 2357 0.33		15 0015 2.28 0619 0.99 FR 1312 2.55 ● 1901 1.17		23 0610 2.88 1143 1.06 SA 1741 2.65 ● 2349 0.46			
8 0700 2.92 1223 1.00 FR 1830 2.72		16 0118 2.43 0715 0.95 SA 1356 2.64 1945 1.01		24 0653 2.80 1221 1.15 SU 1817 2.59			

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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 – 2023

Time	m	Time	m	Time	m	Time	m
1 0139 2.89 0724 0.73 SU 1400 2.84 1949 0.48		9 0038 0.66 0739 2.62 MO 1311 1.18 1911 2.38		17 0232 2.88 0817 1.01 TU 1426 2.62 2019 0.54		25 0100 0.65 0809 2.63 WE 1343 1.12 2007 2.42	
2 0241 3.08 0821 0.71 MO 1448 2.88 2038 0.30		10 0117 0.83 0822 2.48 TU 1355 1.27 1959 2.26		18 0314 3.01 0856 0.97 WE 1500 2.66 2056 0.44		26 0200 0.80 0908 2.56 TH 1448 1.07 2134 2.43	
3 0334 3.19 0912 0.73 TU 1531 2.89 2122 0.21		11 0206 0.99 0913 2.38 WE 1452 1.33 2106 2.17		19 0354 3.07 0933 0.95 TH 1536 2.68 2133 0.38		27 0316 0.94 1015 2.54 FR 1606 0.94 2303 2.57	
4 0422 3.21 0957 0.77 WE 1610 2.86 2204 0.19		12 0311 1.13 1015 2.33 TH 1607 1.31 2233 2.18		20 0433 3.07 1011 0.96 FR 1611 2.67 2211 0.36		28 0444 1.01 1124 2.57 SA 1720 0.73	
5 0506 3.16 1039 0.82 TH 1646 2.81 2245 0.25		13 0435 1.20 1120 2.34 FR 1719 1.21 2354 2.31		21 0513 3.03 1049 0.99 SA 1646 2.65 2249 0.38		29 0021 2.79 0602 0.99 SU 1228 2.63 ○ 1824 0.51	
6 0546 3.06 1118 0.89 FR 1721 2.73 ● 2323 0.36		14 0550 1.18 1218 2.40 SA 1816 1.04		22 0553 2.95 1128 1.04 SU 1724 2.60 ● 2329 0.43		30 0128 3.02 0709 0.94 MO 1324 2.69 1918 0.34	
7 0625 2.92 1156 0.98 SA 1756 2.63		15 0057 2.50 0648 1.12 SU 1306 2.48 ● 1902 0.86		23 0634 2.84 1207 1.09 MO 1805 2.54		31 0224 3.18 0805 0.90 TU 1414 2.73 2007 0.23	
8 0000 0.50 0701 2.77 SU 1232 1.08 1831 2.51		16 0147 2.71 0736 1.06 MO 1347 2.56 1942 0.68		24 0011 0.52 0718 2.73 TU 1251 1.12 1858 2.47			

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

WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER – 2023

Time	m	Time	m	Time	m	Time	m
1 0315 3.24 0853 0.88 WE 1458 2.74 2051 0.20		9 0126 1.08 0816 2.42 TH 1412 1.17 2043 2.19		17 0335 3.15 0914 1.04 FR 1510 2.61 2106 0.31		25 0304 1.10 0938 2.55 SA 1542 0.68 2258 2.68	
2 0359 3.23 0936 0.87 TH 1537 2.73 2133 0.24		10 0223 1.24 0907 2.34 FR 1513 1.14 2203 2.23		18 0417 3.14 0954 1.01 SA 1551 2.63 2149 0.31		26 0423 1.18 1042 2.52 SU 1648 0.55	
3 0439 3.15 1016 0.89 FR 1615 2.69 2213 0.32		11 0341 1.35 1005 2.30 SA 1619 1.05 2321 2.38		19 0500 3.09 1035 0.99 SU 1633 2.62 2231 0.36		27 0006 2.86 0539 1.19 MO 1146 2.52 ○ 1750 0.43	
4 0516 3.04 1055 0.93 SA 1651 2.64 2251 0.44		12 0502 1.36 1107 2.31 SU 1719 0.91		20 0540 3.00 1117 0.98 MO 1719 2.59 ● 2316 0.45		28 0108 3.03 0646 1.14 TU 1245 2.54 1846 0.34	
5 0551 2.92 1131 0.98 SU 1728 2.55 ● 2328 0.59		13 0025 2.59 0609 1.31 MO 1205 2.36 ● 1811 0.74		21 0621 2.90 1200 0.96 TU 1810 2.54		29 0203 3.13 0743 1.08 WE 1339 2.57 1936 0.30	
6 0626 2.78 1207 1.05 MO 1805 2.44		14 0118 2.80 0703 1.23 TU 1258 2.44 1858 0.58		22 0002 0.59 0702 2.80 WE 1246 0.93 1910 2.49		30 0252 3.17 0832 1.02 TH 1426 2.59 2023 0.30	
7 0004 0.75 0700 2.65 TU 1243 1.11 1846 2.33		15 0206 2.98 0749 1.15 WE 1345 2.51 1941 0.45		23 0054 0.77 0747 2.70 TH 1338 0.87 2022 2.48			
8 0042 0.91 0735 2.53 WE 1323 1.15 1936 2.24		16 0251 3.10 0832 1.09 TH 1428 2.57 2024 0.35		24 0154 0.95 0839 2.61 FR 1436 0.79 2141 2.54			

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

WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2023

Time	m	Time	m	Time	m	Time	m
1 0335 3.15 0916 0.99 FR 1509 2.60 2106 0.35		9 0144 1.26 0811 2.45 SA 1421 0.92 2125 2.34		17 0403 3.14 0940 1.01 SU 1541 2.63 2134 0.30		25 0353 1.28 1000 2.48 MO 1612 0.49 2342 2.81	
2 0415 3.08 0957 0.97 SA 1549 2.59 2146 0.43		10 0245 1.38 0859 2.37 SU 1515 0.86 2236 2.46		18 0447 3.11 1025 0.91 MO 1631 2.65 2222 0.37		26 0505 1.31 1103 2.43 TU 1715 0.47	
3 0451 3.00 1035 0.97 SU 1629 2.55 2225 0.54		11 0358 1.46 0956 2.32 MO 1614 0.77 2343 2.62		19 0529 3.05 1110 0.81 TU 1724 2.66 2310 0.49		27 0042 2.90 0615 1.29 WE 1207 2.41 ○ 1815 0.46	
4 0525 2.91 1112 0.98 MO 1708 2.49 2301 0.67		12 0512 1.46 1100 2.31 TU 1714 0.66		20 0608 2.97 1155 0.72 WE 1821 2.64 ●		28 0138 2.96 0716 1.22 TH 1306 2.43 1909 0.45	
5 0556 2.81 1146 0.99 TU 1747 2.42 ● 2337 0.81		13 0043 2.80 0618 1.39 WE 1203 2.35 ● 1812 0.53		21 0000 0.65 0646 2.88 TH 1240 0.64 1921 2.63		29 0229 2.99 0811 1.15 FR 1400 2.46 2000 0.46	
6 0627 2.71 1220 0.99 WE 1830 2.35		14 0138 2.96 0715 1.30 TH 1303 2.42 1905 0.41		22 0050 0.83 0727 2.78 FR 1327 0.58 2025 2.63		30 0315 2.99 0858 1.07 SA 1448 2.49 2045 0.49	
7 0014 0.95 0657 2.62 TH 1256 0.98 1919 2.31		15 0229 3.07 0806 1.20 FR 1359 2.50 1957 0.33		23 0145 1.02 0811 2.67 SA 1417 0.53 2131 2.67		31 0354 2.97 0940 1.01 SU 1533 2.50 2127 0.55	
8 0055 1.11 0730 2.53 FR 1335 0.96 2017 2.30		16 0317 3.13 0854 1.11 SA 1450 2.57 2045 0.29		24 0245 1.17 0901 2.57 SU 1512 0.51 2237 2.73			

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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 2023

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

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 2023

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

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 2023

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

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 2023

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

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

Time Zone: Eastern Standard Time (1000 hr).

May 2023

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

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr).

June 2023

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

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

Time Zone: Eastern Standard Time (1000 hr).

July 2023

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

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).

August 2023

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

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).

September 2023

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

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 2023

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

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 2023

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

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 2023

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

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