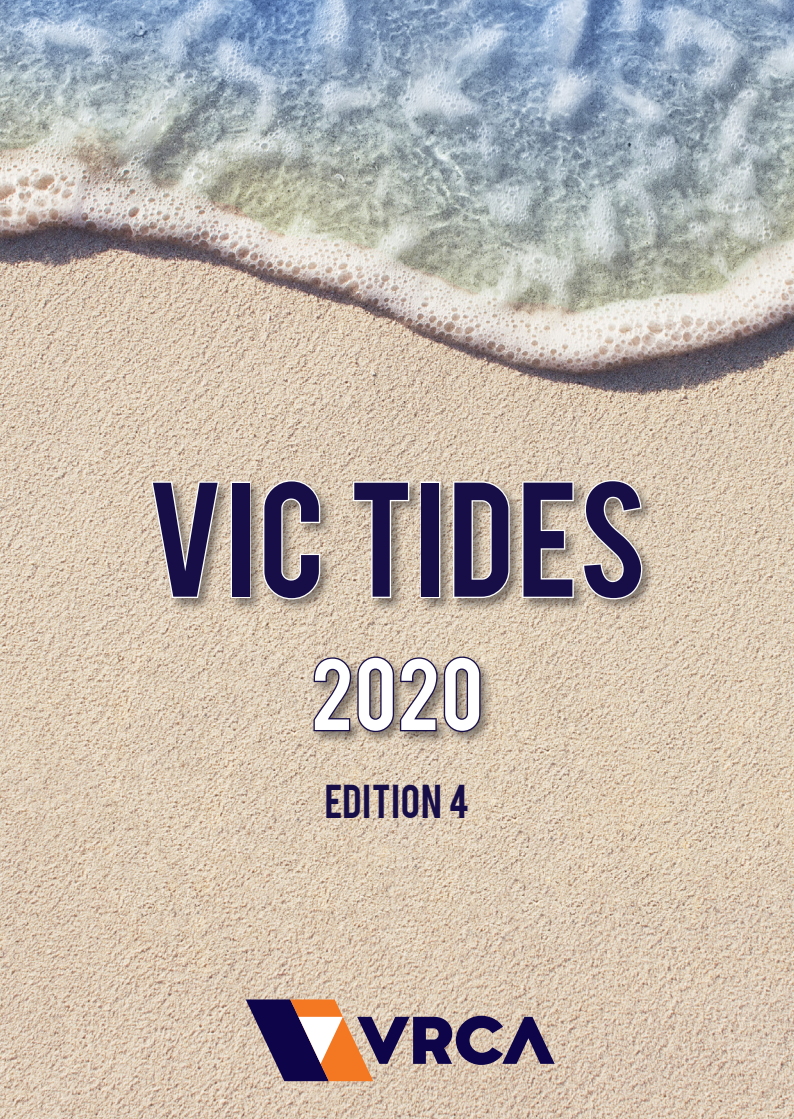




VIC TIDES

2020

EDITION 4



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

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

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

KEEP CLEAR OF BIG SHIPS

ADVICE FOR RECREATIONAL BOAT OWNERS TO STAY SAFE:



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



Always show appropriate lights at night.



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



Do not anchor in the channels – it is illegal.



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



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



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



Cross channels only when safe to do so.

**KEEP CLEAR OF
BIG
SHIPS**



Dear Mariner,

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

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

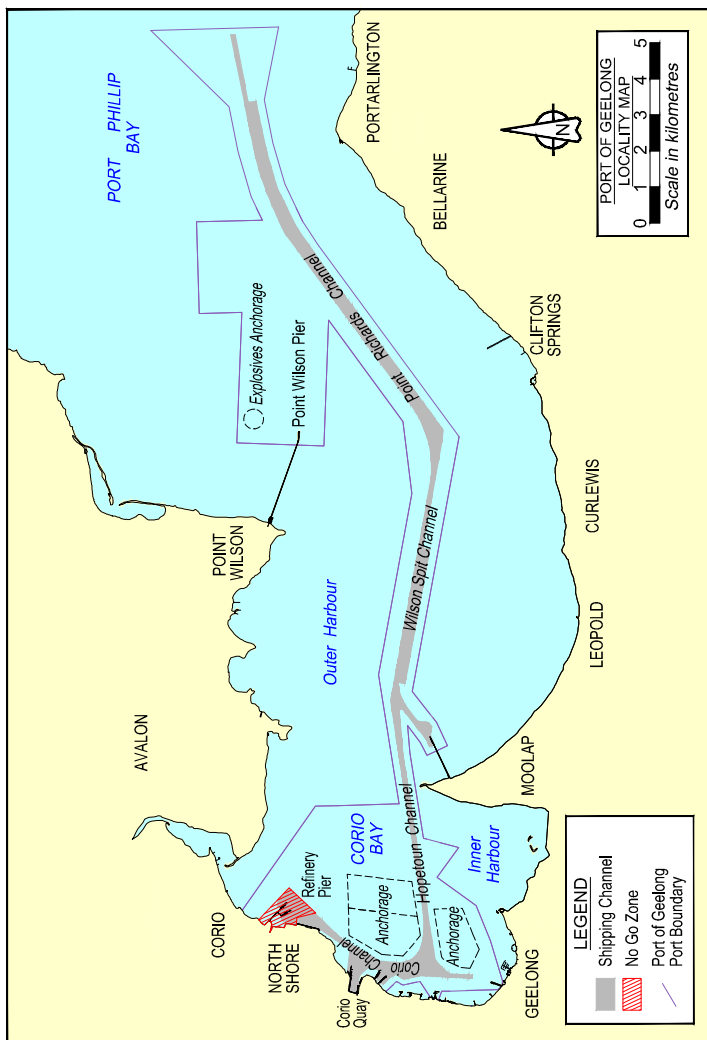
I wish you a safe year of navigating within Port Phillip and along the Victorian coastline and take the opportunity to remind you to:

- Always 'Keep Clear of Big Ships'; and
- Comply with the International Regulations for Preventing Collisions at Sea
- Comply with Maritime Safety Victoria's waterway rules

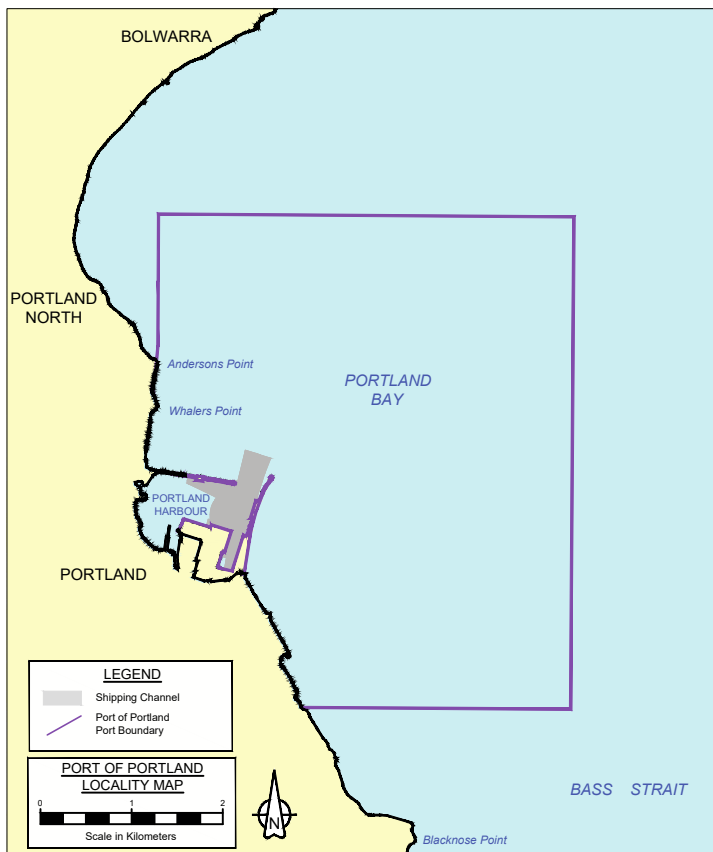
A handwritten signature in blue ink that reads "D. I. Shennan". The signature is written in a cursive, flowing style.

Captain David Shennan

Harbour Master/Marine Manager
Victorian Regional Channels Authority







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*This publication may be purchased from selected retailers. RRP - \$10.00 (inc GST)
Discounts available for bulk purchases or download a digital copy for free - see the
Victorian Tide Tables page under News & Publications at
www.regionalchannels.vic.gov.au*

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VRCA

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

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



Glossary

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

MHLW Mean Higher Low Water

The mean of the higher of the two daily high tides preferably over a 19-year period.

Mean Lower Low Water (MLLW)

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

Geelong

Time Differences for Supplementary Locations – based on Geelong

Location	Time diff (earlier) later HM	Rise of tide			
		MHHW	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<i>Port Phillip Heads</i>	(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 (1965-2018)	1.71
0.66	Highest Astronomical Tide (HAT)	1.24
0.42	Mean Higher High Water (MHHW)	1.00
0.12	Mean Lower High Water (MLHW)	0.70
0.000	Australian Height Datum	0.580
-0.08	Mean Higher Low Water (MHLW)	0.50
-0.48	Mean Lower Low Water (MLLW)	0.10
-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 (1965-2018)	-0.23

Tide Records - © Commonwealth of Australia, Bureau of Meteorology

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0111 0.24 0741 1.07 WE 1401 0.41 1918 0.90		9 0149 0.89 0644 0.62 TH 1222 0.91 1959 0.22		17 0150 0.25 0810 1.08 FR 1438 0.31 ● 2024 0.98		25 0348 1.00 1006 0.52 SA 1411 0.88 ● 2158 0.19	
2 0147 0.27 0814 1.05 TH 1436 0.39 2007 0.89		10 0257 0.94 0823 0.63 FR 1322 0.90 2100 0.18		18 0230 0.30 0848 1.06 SA 1523 0.27 2121 0.97		26 0443 1.03 1103 0.47 SU 1508 0.87 2251 0.20	
3 0221 0.31 0845 1.03 FR 1511 0.38 ● 2053 0.87		11 0352 1.00 0942 0.60 SA 1430 0.91 ○ 2157 0.16		19 0310 0.36 0928 1.04 SU 1611 0.24 2218 0.96		27 0528 1.04 1149 0.43 MO 1615 0.87 2338 0.21	
4 0252 0.35 0915 1.01 SA 1546 0.36 2139 0.86		12 0441 1.04 1042 0.55 SU 1533 0.92 2250 0.14		20 0353 0.43 1007 1.01 MO 1701 0.21 2319 0.95		28 0607 1.05 1229 0.40 TU 1735 0.88	
5 0324 0.40 0944 0.99 SU 1625 0.33 2227 0.85		13 0527 1.07 1134 0.50 MO 1631 0.95 2340 0.15		21 0442 0.49 1046 0.98 TU 1757 0.20		29 0018 0.23 0642 1.04 WE 1304 0.38 1829 0.89	
6 0400 0.45 1015 0.97 MO 1707 0.30 2321 0.85		14 0610 1.09 1224 0.45 TU 1729 0.96		22 0025 0.94 0545 0.55 WE 1130 0.95 1855 0.19		30 0055 0.26 0714 1.03 TH 1337 0.36 1913 0.91	
7 0442 0.52 1051 0.95 TU 1757 0.28		15 0027 0.17 0651 1.09 WE 1310 0.40 1828 0.98		23 0135 0.95 0718 0.58 TH 1219 0.92 1957 0.19		31 0127 0.29 0742 1.03 FR 1408 0.34 1954 0.91	
8 0030 0.85 0534 0.58 WE 1132 0.92 1855 0.25		16 0110 0.20 0731 1.09 TH 1355 0.36 1927 0.98		24 0245 0.97 0852 0.57 FR 1315 0.89 2058 0.19			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0156 0.32 SA 0809 1.02 1439 0.31 2033 0.92		9 0315 0.94 0904 0.59 SU 1402 0.89 2132 0.18		17 0259 0.39 0901 1.04 MO 1549 0.18 2203 1.00		25 0500 0.99 1123 0.39 TU 1652 0.87 2323 0.26	
2 0225 0.35 0837 1.01 SU 1512 0.29 2113 0.91		10 0411 0.98 1015 0.52 MO 1515 0.91 2230 0.17		18 0341 0.44 0940 1.01 TU 1636 0.18 2258 0.97		26 0538 1.00 1201 0.35 WE 1741 0.90	
3 0256 0.39 0906 1.00 MO 1548 0.26 2155 0.91		11 0500 1.02 1113 0.44 TU 1625 0.94 2324 0.17		19 0429 0.49 1019 0.97 WE 1727 0.20 2357 0.94		27 0003 0.28 0611 1.00 TH 1235 0.33 1822 0.93	
4 0331 0.44 0939 0.98 TU 1629 0.25 2241 0.89		12 0545 1.05 1204 0.37 WE 1731 0.98		20 0527 0.54 1103 0.93 TH 1821 0.21		28 0038 0.30 0640 1.00 FR 1305 0.30 1900 0.96	
5 0412 0.50 1015 0.96 WE 1715 0.24 2335 0.87		13 0014 0.20 0627 1.06 TH 1252 0.31 1832 1.01		21 0101 0.93 0643 0.56 FR 1157 0.88 1923 0.23		29 0108 0.34 0706 1.00 SA 1334 0.28 1935 0.97	
6 0459 0.55 1055 0.93 TH 1810 0.23		14 0059 0.24 0707 1.07 FR 1337 0.25 1928 1.03		22 0211 0.93 0820 0.55 SA 1258 0.85 2030 0.24			
7 0047 0.87 0556 0.60 FR 1144 0.91 1916 0.22		15 0140 0.28 0745 1.07 SA 1421 0.21 2019 1.04		23 0319 0.95 0941 0.50 SU 1405 0.83 2136 0.25			
8 0209 0.89 0717 0.62 SA 1245 0.89 2028 0.20		16 0219 0.34 0824 1.06 SU 1504 0.19 2111 1.03		24 0415 0.97 1038 0.44 MO 1537 0.83 2234 0.25			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0132 0.36 0731 1.01 SU 1404 0.26 2010 0.98		9 0229 0.91 0830 0.54 MO 1347 0.89 2106 0.25		17 0250 0.43 0834 1.04 TU 1522 0.18 2143 1.06		25 0422 0.95 1048 0.36 WE 1642 0.92 2302 0.35	
2 0159 0.39 0800 1.01 MO 1437 0.24 2046 0.98		10 0331 0.95 0945 0.46 TU 1511 0.92 ○ 2209 0.24		18 0332 0.46 0915 1.00 WE 1606 0.20 2232 1.02		26 0500 0.97 1126 0.32 TH 1726 0.97 2344 0.37	
3 0230 0.41 0832 1.01 TU 1513 0.23 ● 2126 0.97		11 0425 0.99 1045 0.37 WE 1626 0.98 2307 0.26		19 0420 0.50 0957 0.95 TH 1653 0.24 2326 0.97		27 0531 0.97 1159 0.29 FR 1804 1.01	
4 0306 0.45 0907 0.99 WE 1553 0.22 2209 0.95		12 0513 1.02 1140 0.29 TH 1730 1.03		20 0514 0.53 1045 0.90 FR 1745 0.27		28 0018 0.39 0559 0.99 SA 1229 0.27 1840 1.04	
5 0346 0.49 0944 0.96 TH 1636 0.23 2258 0.92		13 0000 0.29 0557 1.04 FR 1229 0.23 1827 1.08		21 0023 0.94 0619 0.54 SA 1145 0.86 1845 0.31		29 0045 0.42 0624 1.00 SU 1259 0.25 1914 1.06	
6 0430 0.54 1024 0.93 FR 1728 0.24		14 0046 0.32 0637 1.05 SA 1314 0.19 1917 1.11		22 0127 0.92 0747 0.53 SU 1256 0.82 1959 0.34		30 0109 0.44 0652 1.02 MO 1330 0.24 1947 1.07	
7 0000 0.89 0524 0.57 SA 1113 0.91 1833 0.25		15 0130 0.36 0715 1.06 SU 1357 0.17 2006 1.11		23 0236 0.92 0907 0.48 MO 1426 0.82 2113 0.34		31 0135 0.45 0724 1.02 TU 1404 0.23 2023 1.06	
8 0115 0.89 0640 0.58 SU 1221 0.88 1953 0.25		16 0210 0.39 0755 1.06 MO 1439 0.16 ● 2054 1.09		24 0335 0.94 1004 0.41 TU 1547 0.86 ● 2214 0.34			

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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

APRIL - 2020

Time	m	Time	m	Time	m	Time	m
1 0207 0.47 0800 1.01 WE 1441 0.23 ☉ 2101 1.04		9 0341 0.99 1016 0.30 TH 1622 1.05 2248 0.39		17 0408 0.51 0938 0.95 FR 1619 0.31 2253 1.03		25 0439 0.97 1117 0.28 SA 1742 1.10 2354 0.51	
2 0244 0.49 0837 1.00 TH 1520 0.24 2143 1.01		10 0432 1.01 1112 0.24 FR 1722 1.12 2345 0.41		18 0459 0.53 1032 0.90 SA 1706 0.36 2343 0.99		26 0507 1.00 1151 0.26 SU 1817 1.13	
3 0325 0.52 0916 0.97 FR 1602 0.25 2230 0.98		11 0518 1.03 1201 0.20 SA 1815 1.16		19 0557 0.53 1136 0.85 SU 1801 0.42		27 0022 0.52 0538 1.02 MO 1224 0.25 1852 1.14	
4 0410 0.54 1000 0.94 SA 1650 0.28 2325 0.95		12 0033 0.44 0600 1.05 SU 1247 0.18 1903 1.18		20 0037 0.96 0710 0.51 MO 1255 0.84 1917 0.46		28 0046 0.53 0614 1.03 TU 1300 0.25 1926 1.14	
5 0506 0.55 1055 0.92 SU 1751 0.32		13 0117 0.45 0640 1.06 MO 1330 0.18 1949 1.17		21 0137 0.94 0824 0.46 TU 1420 0.86 2043 0.48		29 0115 0.54 0651 1.04 WE 1336 0.25 2001 1.13	
6 0029 0.94 0627 0.54 MO 1214 0.90 1914 0.35		14 0158 0.47 0722 1.06 TU 1411 0.19 2034 1.15		22 0237 0.93 0920 0.40 WE 1529 0.93 2145 0.48		30 0149 0.55 0731 1.03 TH 1414 0.26 2040 1.11	
7 0138 0.94 0801 0.48 TU 1345 0.92 2036 0.37		15 0239 0.48 0805 1.04 WE 1452 0.22 ☉ 2119 1.12		23 0328 0.94 1004 0.35 TH 1620 1.00 ☉ 2235 0.48			
8 0242 0.96 0915 0.39 WE 1510 0.98 ☉ 2145 0.38		16 0322 0.49 0850 1.00 TH 1535 0.26 2205 1.07		24 0407 0.96 1043 0.31 FR 1703 1.06 2318 0.49			

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

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2020

Time	m	Time	m	Time	m	Time	m
1 0228 0.56 0812 1.01 FR 1453 0.28 ● 2121 1.08		9 0339 1.03 1043 0.22 SA 1710 1.18 2330 0.54		17 0438 0.53 1018 0.91 SU 1628 0.44 2300 1.05		25 0414 1.02 1116 0.26 MO 1756 1.19 2359 0.61	
2 0311 0.56 0856 0.99 SA 1534 0.31 2206 1.06		10 0427 1.05 1133 0.21 SU 1800 1.22		18 0529 0.52 1122 0.88 MO 1711 0.51 2343 1.01		26 0457 1.04 1157 0.26 TU 1831 1.19	
3 0401 0.55 0945 0.97 SU 1620 0.35 2256 1.03		11 0019 0.54 0511 1.06 MO 1219 0.21 1846 1.22		19 0627 0.49 1235 0.88 TU 1807 0.58		27 0030 0.61 0540 1.05 WE 1235 0.27 1908 1.19	
4 0503 0.53 1051 0.94 MO 1715 0.41 2351 1.02		12 0103 0.54 0558 1.07 TU 1301 0.23 1930 1.21		20 0026 0.98 0730 0.45 WE 1354 0.91 1952 0.62		28 0105 0.60 0623 1.06 TH 1315 0.28 1945 1.18	
5 0617 0.48 1215 0.95 TU 1830 0.47		13 0145 0.53 0647 1.06 WE 1343 0.25 2013 1.19		21 0113 0.96 0827 0.40 TH 1500 0.98 2109 0.63		29 0143 0.60 0708 1.05 FR 1353 0.30 2024 1.16	
6 0049 1.01 0736 0.41 WE 1344 0.99 2001 0.51		14 0225 0.52 0738 1.04 TH 1423 0.29 2055 1.16		22 0201 0.96 0915 0.35 FR 1552 1.06 2202 0.62		30 0224 0.58 0754 1.03 SA 1431 0.33 ● 2103 1.14	
7 0148 1.01 0845 0.33 TH 1504 1.05 ○ 2121 0.53		15 0307 0.52 0830 1.00 FR 1505 0.33 ● 2137 1.12		23 0248 0.97 0957 0.31 SA 1637 1.12 ● 2246 0.62		31 0310 0.56 0845 1.01 SU 1513 0.37 2145 1.12	
8 0246 1.02 0946 0.26 FR 1613 1.13 2230 0.54		16 0351 0.53 0922 0.95 SA 1546 0.38 2219 1.08		24 0331 1.00 1037 0.28 SU 1717 1.16 2325 0.61			

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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

JUNE - 2020

Time	m	Time	m	Time	m	Time	m
1 0401 0.52 0945 0.99 MO 1556 0.43 2229 1.10		9 0004 0.60 0419 1.07 TU 1154 0.25 1830 1.23		17 0540 0.46 1158 0.91 WE 1657 0.63 2319 1.03		25 0018 0.63 0515 1.06 TH 1218 0.27 1851 1.20	
2 0500 0.48 1056 0.98 TU 1647 0.50 2315 1.09		10 0048 0.57 0516 1.06 WE 1237 0.27 1912 1.22		18 0631 0.42 1312 0.94 TH 1749 0.69 2356 1.01		26 0100 0.60 0604 1.06 FR 1300 0.29 1930 1.19	
3 0604 0.42 1215 0.99 WE 1751 0.57		11 0130 0.55 0618 1.05 TH 1317 0.30 1951 1.20		19 0727 0.38 1422 0.99 FR 1930 0.73		27 0142 0.57 0656 1.05 SA 1338 0.32 2007 1.18	
4 0005 1.07 0712 0.35 TH 1337 1.04 1920 0.63		12 0209 0.54 0717 1.02 FR 1358 0.34 2030 1.18		20 0041 1.00 0822 0.34 SA 1520 1.06 2113 0.73		28 0224 0.53 0750 1.04 SU 1416 0.36 2045 1.17	
5 0057 1.06 0817 0.29 FR 1453 1.10 2055 0.65		13 0249 0.52 0814 0.99 SA 1437 0.38 2107 1.15		21 0136 1.00 0914 0.30 SU 1609 1.12 2207 0.70		29 0309 0.49 0848 1.03 MO 1455 0.42 2123 1.15	
6 0148 1.06 0918 0.25 SA 1559 1.16 2212 0.64		14 0330 0.52 0906 0.96 SU 1514 0.44 2143 1.12		22 0237 1.01 1002 0.27 MO 1653 1.16 2253 0.68		30 0356 0.44 0950 1.02 TU 1536 0.48 2201 1.13	
7 0237 1.06 1015 0.23 SU 1655 1.20 2313 0.62		15 0411 0.50 0959 0.93 MO 1548 0.50 2216 1.09		23 0333 1.03 1050 0.26 TU 1733 1.19 2336 0.65			
8 0327 1.06 1107 0.24 MO 1745 1.23		16 0454 0.48 1055 0.91 TU 1620 0.56 2247 1.06		24 0425 1.05 1135 0.26 WE 1813 1.20			

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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

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0448 0.40 1056 1.01 WE 1622 0.55 2242 1.11		9 0032 0.55 0455 1.02 TH 1218 0.30 1851 1.19		17 0540 0.37 1213 0.94 FR 1707 0.67 2311 1.03		25 0046 0.52 0600 1.05 SA 1247 0.29 1909 1.17	
2 0546 0.35 1207 1.02 TH 1717 0.63 2325 1.09		10 0112 0.53 0609 1.01 FR 1259 0.32 1928 1.18		18 0633 0.35 1329 0.96 SA 1806 0.72 2358 1.01		26 0130 0.47 0659 1.06 SU 1326 0.33 1945 1.17	
3 0648 0.31 1322 1.04 FR 1835 0.69		11 0149 0.50 0710 1.00 SA 1336 0.36 2001 1.16		19 0734 0.32 1440 1.00 SU 1931 0.75		27 0214 0.42 0756 1.06 MO 1402 0.38 2022 1.16	
4 0012 1.07 0751 0.27 SA 1436 1.09 2027 0.70		12 0226 0.48 0800 0.98 SU 1411 0.40 2034 1.14		20 0054 0.99 0836 0.28 MO 1536 1.06 2116 0.72		28 0257 0.38 0850 1.05 TU 1439 0.44 2058 1.14	
5 0105 1.05 0852 0.25 SU 1542 1.13 2151 0.68		13 0301 0.47 0847 0.97 MO 1443 0.45 2104 1.12		21 0159 0.99 0934 0.26 TU 1625 1.10 2220 0.67		29 0342 0.34 0946 1.04 WE 1517 0.50 2134 1.12	
6 0201 1.04 0951 0.25 MO 1639 1.17 2256 0.63		14 0338 0.45 0932 0.95 TU 1512 0.50 2131 1.10		22 0303 1.00 1028 0.24 WE 1709 1.14 2314 0.62		30 0430 0.31 1045 1.02 TH 1600 0.57 2211 1.10	
7 0256 1.04 1045 0.25 TU 1729 1.19 2348 0.59		15 0415 0.42 1018 0.94 WE 1542 0.56 2200 1.08		23 0403 1.02 1117 0.24 TH 1750 1.16		31 0524 0.29 1150 1.00 FR 1652 0.63 2251 1.07	
8 0352 1.03 1134 0.27 WE 1812 1.19		16 0454 0.40 1110 0.93 TH 1619 0.61 2232 1.05		24 0001 0.57 0501 1.04 FR 1204 0.26 1830 1.17			

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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

AUGUST - 2020

Time	m	Time	m	Time	m	Time	m
1 0622 0.27 SA 1300 1.01 1804 0.67 2343 1.03		9 0124 0.43 0702 0.99 SU 1316 0.36 1930 1.11		17 0650 0.30 1343 0.93 MO 1835 0.70		25 0153 0.30 0751 1.09 TU 1350 0.40 1955 1.12	
2 0725 0.26 1413 1.03 SU 1958 0.68		10 0157 0.41 0745 0.99 MO 1346 0.40 1957 1.10		18 0019 0.96 0800 0.28 TU 1453 0.97 2028 0.68		26 0236 0.27 0842 1.08 WE 1426 0.45 ● 2030 1.11	
3 0044 1.00 0828 0.26 MO 1520 1.06 2130 0.64		11 0228 0.39 0824 0.99 TU 1413 0.44 2023 1.09		19 0130 0.95 0908 0.25 WE 1549 1.02 ● 2148 0.61		27 0320 0.25 0934 1.05 TH 1504 0.50 2107 1.08	
4 0145 0.98 0930 0.26 TU 1618 1.09 ○ 2237 0.58		12 0300 0.37 0902 0.98 WE 1440 0.48 ● 2050 1.08		20 0246 0.97 1006 0.23 TH 1637 1.06 2246 0.53		28 0407 0.25 1029 1.01 FR 1548 0.55 2146 1.05	
5 0245 0.97 1029 0.26 WE 1708 1.11 2329 0.53		13 0334 0.35 0943 0.97 TH 1513 0.52 2121 1.06		21 0357 1.00 1100 0.24 FR 1721 1.09 2338 0.46		29 0458 0.26 1127 0.98 SA 1644 0.59 2230 1.01	
6 0355 0.96 1120 0.27 TH 1749 1.12		14 0413 0.33 1026 0.95 FR 1551 0.57 2156 1.04		22 0503 1.03 1148 0.26 SA 1802 1.11		30 0554 0.27 1230 0.96 SU 1758 0.62 2329 0.96	
7 0012 0.48 0522 0.97 FR 1204 0.30 1827 1.12		15 0457 0.32 1117 0.93 SA 1635 0.62 2235 1.01		23 0025 0.39 0604 1.06 SU 1233 0.30 1842 1.12		31 0656 0.27 1339 0.96 MO 1932 0.62	
8 0050 0.45 0617 0.98 SA 1243 0.33 1900 1.12		16 0547 0.31 1222 0.92 SU 1728 0.67 2321 0.98		24 0110 0.34 0700 1.08 MO 1314 0.35 1918 1.13			

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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

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0037 0.93 0802 0.28 TU 1448 0.97 2105 0.57		9 0150 0.31 0758 1.02 WE 1345 0.43 1943 1.05		17 0115 0.91 0839 0.28 TH 1502 0.95 ● 2115 0.50		25 0255 0.21 0916 1.06 FR 1501 0.48 2044 1.04	
2 0149 0.90 0912 0.28 WE 1549 1.00 ○ 2213 0.50		10 0221 0.29 0832 1.01 TH 1413 0.46 ● 2014 1.05		18 0242 0.95 0943 0.27 FR 1557 0.99 2215 0.41		26 0341 0.23 1007 1.01 SA 1551 0.51 2130 0.99	
3 0316 0.90 1014 0.28 TH 1639 1.03 2303 0.44		11 0256 0.28 0910 0.99 FR 1447 0.49 2048 1.03		19 0357 1.00 1039 0.28 SA 1645 1.02 2309 0.33		27 0430 0.26 1100 0.97 SU 1646 0.54 2223 0.94	
4 0433 0.93 1106 0.29 FR 1720 1.04 2345 0.39		12 0334 0.27 0951 0.96 SA 1526 0.53 2125 1.00		20 0502 1.06 1130 0.31 SU 1728 1.05 2359 0.27		28 0522 0.29 1157 0.94 MO 1751 0.55 2328 0.89	
5 0525 0.96 1149 0.31 SA 1755 1.04		13 0417 0.27 1038 0.93 SU 1609 0.57 2204 0.97		21 0559 1.10 1218 0.34 MO 1808 1.06		29 0622 0.32 1259 0.92 TU 1910 0.53	
6 0020 0.37 0608 0.99 SU 1226 0.34 1825 1.04		14 0506 0.28 1133 0.90 MO 1659 0.60 2251 0.94		22 0045 0.23 0650 1.12 TU 1300 0.38 1845 1.08		30 0043 0.86 0734 0.34 WE 1405 0.92 2034 0.48	
7 0052 0.35 0646 1.01 MO 1257 0.38 1851 1.04		15 0605 0.29 1244 0.89 TU 1803 0.61 2353 0.92		23 0129 0.20 0739 1.12 WE 1340 0.42 1923 1.08			
8 0121 0.33 0723 1.01 TU 1322 0.41 1915 1.05		16 0722 0.29 1359 0.91 WE 1951 0.59		24 0212 0.20 0828 1.10 TH 1419 0.45 ● 2002 1.07			

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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

OCTOBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0206 0.86 0850 0.34 TH 1509 0.93 2139 0.42		9 0145 0.24 0805 1.04 FR 1349 0.46 1941 1.01		17 0239 0.96 0915 0.36 SA 1506 0.95 ● 2143 0.29		25 0314 0.24 0944 1.03 SU 1547 0.47 2119 0.94	
2 0326 0.90 0955 0.33 FR 1600 0.95 ○ 2228 0.36		10 0222 0.24 0842 1.02 SA 1425 0.48 ● 2018 0.99		18 0351 1.03 1016 0.37 SU 1558 0.98 2238 0.22		26 0400 0.28 1031 0.99 MO 1639 0.48 2218 0.89	
3 0423 0.95 1046 0.34 SA 1642 0.96 2308 0.32		11 0301 0.24 0922 0.99 SU 1504 0.50 2058 0.97		19 0453 1.10 1113 0.39 MO 1645 1.00 2330 0.18		27 0449 0.33 1121 0.95 TU 1736 0.47 2326 0.85	
4 0509 1.00 1130 0.35 SU 1715 0.97 2343 0.29		12 0343 0.26 1007 0.95 MO 1548 0.53 2140 0.94		20 0546 1.14 1203 0.42 TU 1727 1.02		28 0545 0.38 1215 0.92 WE 1843 0.45	
5 0549 1.03 1206 0.38 MO 1742 0.98		13 0428 0.28 1058 0.92 TU 1640 0.53 2230 0.91		21 0016 0.16 0636 1.15 WE 1250 0.43 1807 1.04		29 0040 0.83 0657 0.42 TH 1312 0.90 1956 0.41	
6 0014 0.27 0626 1.05 TU 1235 0.41 1806 0.99		14 0523 0.31 1157 0.91 WE 1750 0.52 2341 0.89		22 0101 0.16 0724 1.14 TH 1332 0.45 1850 1.04		30 0200 0.86 0822 0.44 FR 1412 0.89 2057 0.35	
7 0043 0.26 0700 1.06 WE 1257 0.43 1832 1.01		15 0637 0.34 1302 0.91 TH 1923 0.47		23 0145 0.17 0810 1.11 FR 1415 0.46 ● 1936 1.02		31 0308 0.92 0929 0.43 SA 1505 0.89 2145 0.30	
8 0113 0.25 0731 1.06 TH 1318 0.45 1904 1.02		16 0112 0.91 0803 0.36 FR 1407 0.93 2040 0.38		24 0229 0.20 0857 1.07 SA 1500 0.46 2025 0.99			

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

GEELONG

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0402 0.98		9 0233 0.24		17 0441 1.12		25 0415 0.37	
1021 0.43		0900 1.02		1055 0.49		1044 0.97	
SU 1547 0.90		MO 1452 0.49		TU 1548 0.98		WE 1712 0.41	
○ 2225 0.26		2036 0.94		2301 0.14		2312 0.84	
2 0447 1.04		10 0314 0.26		18 0533 1.15		26 0502 0.43	
1104 0.44		0942 0.99		1150 0.48		1127 0.93	
MO 1619 0.91		TU 1539 0.49		WE 1635 0.99		TH 1807 0.39	
2300 0.24		2124 0.92		2351 0.14			
3 0527 1.07		11 0357 0.30		19 0622 1.15		27 0019 0.83	
1142 0.45		1029 0.97		1239 0.47		0600 0.50	
TU 1645 0.94		WE 1635 0.46		TH 1726 1.01		FR 1210 0.90	
2333 0.22		2223 0.90				1907 0.35	
4 0602 1.09		12 0446 0.35		20 0037 0.16		28 0132 0.86	
1212 0.46		1118 0.95		0708 1.14		0733 0.54	
WE 1716 0.96		TH 1743 0.42		FR 1323 0.46		SA 1252 0.88	
		2340 0.89		1819 1.00		2005 0.31	
5 0006 0.21		13 0552 0.41		21 0121 0.18		29 0240 0.92	
0636 1.09		1214 0.94		0752 1.12		0853 0.55	
TH 1234 0.47		FR 1857 0.36		SA 1405 0.44		SU 1336 0.87	
1752 0.98				1915 0.98		2055 0.26	
6 0041 0.21		14 0108 0.92		22 0204 0.21		30 0335 0.99	
0709 1.09		0718 0.46		0835 1.09		0948 0.54	
FR 1300 0.48		SA 1310 0.94		SU 1449 0.43		MO 1421 0.88	
1831 0.99		2008 0.28		○ 2013 0.95		○ 2138 0.23	
7 0116 0.21		15 0230 0.99		23 0247 0.26			
0743 1.07		0843 0.48		0918 1.05			
SA 1331 0.48		SU 1407 0.95		MO 1534 0.42			
1912 0.98		● 2110 0.21		2111 0.91			
8 0155 0.22		16 0341 1.06		24 0331 0.31			
0820 1.05		0952 0.49		1000 1.01			
SU 1410 0.49		MO 1500 0.96		TU 1621 0.42			
● 1953 0.96		2207 0.16		2209 0.87			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0422 1.04 TU 1034 0.50 1506 0.90 2218 0.20		9 0251 0.28 0920 1.02 WE 1537 0.42 2119 0.91		17 0520 1.12 1138 0.51 TH 1554 0.97 2330 0.15		25 0416 0.46 1035 0.96 FR 1724 0.33 2343 0.85	
2 0503 1.08 1114 0.52 WE 1551 0.92 2259 0.19		10 0332 0.33 1000 1.01 TH 1630 0.38 2224 0.90		18 0608 1.12 1227 0.47 FR 1654 0.97		26 0451 0.52 1104 0.93 SA 1812 0.30	
3 0541 1.10 1147 0.51 TH 1635 0.94 2338 0.18		11 0418 0.40 1044 0.99 FR 1728 0.32 2337 0.91		19 0017 0.17 0651 1.12 SA 1311 0.44 1800 0.96		27 0050 0.86 0537 0.58 SU 1137 0.90 1904 0.28	
4 0616 1.10 1218 0.51 FR 1719 0.96		12 0514 0.47 1130 0.97 SA 1831 0.26		20 0101 0.20 0732 1.10 SU 1352 0.41 1906 0.94		28 0200 0.90 0658 0.62 MO 1220 0.89 1959 0.24	
5 0017 0.19 0651 1.09 SA 1251 0.50 1804 0.96		13 0057 0.94 0626 0.53 SU 1217 0.96 1938 0.21		21 0144 0.23 0812 1.08 MO 1433 0.39 2005 0.92		29 0301 0.95 0900 0.62 TU 1314 0.88 2052 0.21	
6 0056 0.20 0727 1.08 SU 1327 0.49 1848 0.96		14 0216 0.99 0801 0.57 MO 1310 0.96 2042 0.16		22 0224 0.27 0851 1.06 TU 1515 0.37 2059 0.89		30 0353 1.00 0956 0.60 WE 1413 0.89 2143 0.19	
7 0134 0.22 0803 1.06 MO 1407 0.48 1935 0.95		15 0327 1.05 0928 0.57 TU 1403 0.96 2141 0.14		23 0303 0.33 0929 1.03 WE 1557 0.36 2151 0.87		31 0438 1.04 1042 0.56 TH 1511 0.90 2231 0.17	
8 0213 0.24 0841 1.04 TU 1450 0.45 2024 0.93		16 0427 1.09 1040 0.54 WE 1459 0.96 2237 0.14		24 0342 0.39 1003 0.99 TH 1640 0.34 2245 0.85			

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

Lakes Entrance (Outer)

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

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

Lakes Entrance (Outer) Datums

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

AHD metres	Predominantly diurnal tides	Chart Datum metres	Lakes Ent
0.81	Highest recorded tide 02/07/2008 (2008 - 2018)	1.57	
0.75	Highest Astronomical Tide (HAT)	1.51	
0.48	Mean Higher High Water (MHHW)	1.24	
0.03	Mean Lower High Water (MLHW)	0.79	
0.000	Australian Height Datum	0.757	
-0.03	Mean Higher Low Water (MHLW)	0.73	
-0.47	Mean Lower Low Springs (MLSW)	0.29	
-0.757	Chart & Prediction Datum	0.000	
	Lowest Astronomical Tide (LAT)		
-1.11	Lowest recorded tide 08/02/2017 (2008 – 2018)	-0.36	

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0101 0.85 0630 0.73 WE 1207 1.03 1916 0.43		9 0015 0.49 0723 1.16 TH 1358 0.28 1949 0.87		17 0202 0.98 0744 0.56 FR 1337 0.98 ● 2012 0.37		25 0152 0.53 0859 1.19 SA 1531 0.22 ● 2119 0.86	
2 0151 0.87 0724 0.74 TH 1247 0.97 1959 0.46		10 0057 0.49 0806 1.21 FR 1441 0.21 2033 0.89		18 0302 1.01 0856 0.54 SA 1502 0.89 2104 0.42		26 0236 0.54 0934 1.17 SU 1605 0.25 2158 0.86	
3 0242 0.89 0824 0.73 FR 1341 0.91 ● 2044 0.47		11 0143 0.50 0848 1.25 SA 1525 0.16 ○ 2120 0.90		19 0405 1.04 1030 0.49 SU 1630 0.83 2158 0.46		27 0321 0.57 1006 1.14 MO 1639 0.29 2238 0.86	
4 0336 0.92 0939 0.70 SA 1502 0.85 2130 0.48		12 0234 0.52 0932 1.27 SU 1610 0.14 2213 0.92		20 0508 1.08 1153 0.40 MO 1740 0.81 2250 0.49		28 0407 0.60 1036 1.11 TU 1715 0.34 2320 0.87	
5 0429 0.96 1101 0.63 SU 1637 0.82 2213 0.49		13 0332 0.54 1016 1.27 MO 1656 0.15 2309 0.93		21 0605 1.13 1255 0.32 TU 1835 0.82 2339 0.50		29 0457 0.64 1103 1.06 WE 1750 0.39	
6 0518 1.00 1156 0.55 MO 1741 0.82 2255 0.49		14 0435 0.55 1100 1.23 TU 1744 0.18		22 0654 1.16 1343 0.25 WE 1921 0.83		30 0002 0.87 0550 0.67 TH 1127 1.00 1825 0.44	
7 0601 1.05 1239 0.45 TU 1827 0.83 2334 0.49		15 0007 0.94 0539 0.56 WE 1146 1.17 1832 0.24		23 0024 0.51 0740 1.18 TH 1422 0.22 2002 0.84		31 0045 0.89 0645 0.68 FR 1158 0.94 1904 0.48	
8 0642 1.10 1318 0.36 WE 1908 0.85		16 0105 0.96 0640 0.56 TH 1235 1.08 1921 0.30		24 0109 0.51 0821 1.19 FR 1457 0.21 2041 0.85			

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LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

FEBRUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0130 0.90 0742 0.68 SA 1247 0.87 1947 0.51		9 0135 0.44 0827 1.26 SU 1504 0.10 ○ 2102 0.95		17 0345 1.04 1034 0.44 MO 1632 0.78 2132 0.58		25 0305 0.51 0940 1.09 TU 1602 0.32 2159 0.92	
2 0220 0.92 0847 0.66 SU 1412 0.80 ● 2034 0.53		10 0227 0.42 0913 1.28 MO 1547 0.09 2154 0.97		18 0453 1.07 1156 0.37 TU 1738 0.79 2231 0.58		26 0346 0.53 1009 1.05 WE 1632 0.37 2232 0.93	
3 0319 0.95 1003 0.61 MO 1559 0.77 2125 0.55		11 0324 0.42 1001 1.26 TU 1632 0.12 2247 0.99		19 0549 1.10 1252 0.31 WE 1826 0.81 2324 0.56		27 0430 0.56 1034 1.00 TH 1700 0.43 2305 0.94	
4 0428 0.99 1117 0.53 TU 1716 0.78 2216 0.54		12 0425 0.43 1049 1.20 WE 1717 0.19 2341 1.01		20 0637 1.12 1332 0.27 TH 1906 0.84		28 0520 0.59 1059 0.95 FR 1728 0.48 2339 0.95	
5 0527 1.04 1209 0.42 WE 1805 0.81 2307 0.52		13 0527 0.44 1139 1.11 TH 1803 0.28		21 0013 0.54 0720 1.14 FR 1403 0.25 1943 0.86		29 0614 0.61 1135 0.89 SA 1802 0.53	
6 0614 1.10 1254 0.32 TH 1848 0.85 2355 0.49		14 0035 1.02 0630 0.46 FR 1235 1.00 1850 0.38		22 0058 0.51 0758 1.14 SA 1432 0.25 2017 0.88			
7 0658 1.17 1337 0.22 FR 1930 0.89		15 0131 1.02 0735 0.47 SA 1342 0.89 1940 0.47		23 0142 0.50 0834 1.13 SU 1500 0.26 2052 0.90			
8 0044 0.46 0742 1.23 SA 1420 0.14 2015 0.93		16 0234 1.03 0853 0.47 SU 1507 0.81 ● 2034 0.54		24 0223 0.49 0908 1.11 MO 1531 0.29 ● 2126 0.91			

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

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2020

Time	m	Time	m	Time	m	Time	m
1 0019 0.95 0711 0.61 SU 1231 0.83 1849 0.58		9 0125 0.39 0801 1.24 MO 1436 0.10 2044 1.03		17 0319 1.05 1028 0.41 TU 1834 0.81 2109 0.69		25 0253 0.48 0910 1.02 WE 1517 0.40 2126 1.01	
2 0107 0.96 0810 0.60 MO 1356 0.78 1945 0.62		10 0220 0.35 0851 1.23 TU 1519 0.13 ○ 2133 1.07		18 0430 1.05 1140 0.37 WE 1744 0.83 2214 0.67		26 0333 0.49 0943 0.99 TH 1540 0.45 2152 1.03	
3 0209 0.96 0914 0.56 TU 1533 0.76 ● 2045 0.63		11 0317 0.33 0945 1.19 WE 1602 0.19 2224 1.09		19 0525 1.07 1227 0.35 TH 1816 0.86 2314 0.63		27 0416 0.51 1015 0.95 FR 1559 0.51 2219 1.04	
4 0329 0.99 1028 0.48 WE 1654 0.79 2145 0.61		12 0416 0.33 1039 1.12 TH 1646 0.28 2313 1.10		20 0611 1.08 1301 0.33 FR 1848 0.89		28 0503 0.53 1052 0.91 SA 1617 0.56 2250 1.05	
5 0444 1.04 1133 0.38 TH 1744 0.84 2244 0.57		13 0518 0.34 1136 1.03 FR 1732 0.40		21 0005 0.58 0651 1.09 SA 1328 0.32 1921 0.92		29 0553 0.55 1139 0.87 SU 1639 0.62 2327 1.05	
6 0539 1.11 1224 0.28 FR 1828 0.90 2339 0.51		14 0004 1.10 0621 0.37 SA 1236 0.92 1820 0.51		22 0051 0.53 0728 1.08 SU 1355 0.32 1954 0.95		30 0647 0.55 1237 0.83 MO 1711 0.68	
7 0626 1.17 1310 0.19 SA 1911 0.95		15 0057 1.08 0728 0.40 SU 1347 0.84 1912 0.60		23 0133 0.50 0803 1.07 MO 1422 0.34 2026 0.97		31 0011 1.04 0742 0.54 TU 1349 0.80 1903 0.72	
8 0033 0.44 0713 1.22 SU 1354 0.12 1956 1.00		16 0201 1.06 0847 0.42 MO 1513 0.79 ● 2008 0.67		24 0213 0.48 0837 1.05 TU 1451 0.36 ● 2057 0.99			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0109 1.03 0842 0.50 WE 1512 0.81 ☉ 2013 0.72		9 0309 0.28 0931 1.10 TH 1527 0.34 2201 1.20		17 0448 1.06 1141 0.43 FR 1753 0.93 2301 0.70		25 0400 0.49 0959 0.93 SA 1458 0.61 2157 1.15	
2 0229 1.04 0947 0.44 TH 1628 0.86 2117 0.69		10 0409 0.28 1030 1.03 FR 1612 0.45 2248 1.21		18 0533 1.06 1211 0.42 SA 1822 0.96 2355 0.64		26 0446 0.50 1044 0.91 SU 1520 0.66 2230 1.16	
3 0353 1.07 1054 0.36 FR 1718 0.91 2222 0.63		11 0509 0.30 1129 0.96 SA 1700 0.56 2334 1.19		19 0612 1.06 1240 0.42 SU 1854 0.99		27 0534 0.50 1134 0.89 MO 1547 0.72 2306 1.15	
4 0456 1.13 1149 0.28 SA 1804 0.97 2324 0.54		12 0611 0.34 1233 0.89 SU 1752 0.66		20 0041 0.58 0650 1.05 MO 1309 0.42 1927 1.02		28 0626 0.50 1232 0.88 TU 1627 0.77 2348 1.14	
5 0549 1.17 1236 0.21 SU 1849 1.03		13 0024 1.15 0715 0.38 MO 1346 0.85 1846 0.73		21 0123 0.53 0727 1.03 TU 1336 0.44 1958 1.05		29 0720 0.49 1338 0.88 WE 1842 0.80	
6 0021 0.45 0640 1.20 MO 1321 0.18 1936 1.09		14 0122 1.11 0830 0.41 TU 1734 0.86 1944 0.78		22 0202 0.50 0803 1.01 WE 1401 0.47 2029 1.09		30 0040 1.12 0815 0.46 TH 1448 0.90 1949 0.79	
7 0117 0.37 0733 1.19 TU 1403 0.20 2024 1.14		15 0237 1.07 0959 0.43 WE 1819 0.89 ☉ 2046 0.78		23 0240 0.49 0840 0.98 TH 1422 0.51 ☉ 2058 1.12			
8 0213 0.31 0832 1.16 WE 1444 0.25 ☉ 2113 1.17		16 0352 1.06 1100 0.43 TH 1850 0.90 2154 0.76		24 0319 0.48 0918 0.95 FR 1440 0.56 2126 1.14			

Lakes Ent

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

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2020

Time	m	Time	m	Time	m	Time	m
1 0149 1.12 0914 0.42 FR 1552 0.95 ● 2055 0.75		9 0400 0.28 1017 0.98 SA 1536 0.60 2225 1.29		17 0442 1.05 1110 0.51 SU 1744 1.02 2339 0.71		25 0428 0.46 1027 0.94 MO 1457 0.73 2221 1.25	
2 0306 1.13 1013 0.36 SA 1645 1.00 2202 0.68		10 0457 0.31 1117 0.94 SU 1629 0.69 2309 1.27		18 0527 1.04 1143 0.51 MO 1819 1.06		26 0515 0.46 1120 0.94 TU 1550 0.78 2258 1.25	
3 0415 1.15 1108 0.32 SU 1734 1.06 2310 0.58		11 0555 0.35 1220 0.90 MO 1725 0.77 2354 1.23		19 0026 0.64 0610 1.02 TU 1214 0.52 1854 1.10		27 0606 0.46 1219 0.94 WE 1719 0.82 2338 1.23	
4 0515 1.17 1155 0.29 MO 1824 1.12		12 0653 0.40 1332 0.89 TU 1821 0.82		20 0108 0.58 0652 1.00 WE 1240 0.54 1928 1.13		28 0657 0.45 1321 0.96 TH 1829 0.82	
5 0013 0.48 0614 1.16 TU 1240 0.30 1914 1.18		13 0041 1.17 0753 0.45 WE 1710 0.92 * 1918 0.85		21 0146 0.53 0732 0.98 TH 1304 0.56 2001 1.17		29 0026 1.21 0750 0.44 FR 1421 0.99 1932 0.81	
6 0111 0.39 0714 1.13 WE 1322 0.34 2004 1.23		14 0137 1.12 0855 0.49 TH 1751 0.94 2017 0.85		22 0223 0.50 0812 0.97 FR 1328 0.60 2034 1.21		30 0124 1.19 0843 0.42 SA 1517 1.03 ● 2036 0.76	
7 0207 0.32 0817 1.08 TH 1404 0.42 ○ 2053 1.27		15 0246 1.09 0950 0.51 FR 1812 0.95 ● 2124 0.82		23 0301 0.48 0854 0.95 SA 1354 0.64 ● 2108 1.23		31 0234 1.16 0936 0.40 SU 1611 1.08 2146 0.70	
8 0303 0.29 0918 1.03 FR 1448 0.51 2140 1.29		16 0350 1.06 1033 0.51 SA 1709 0.99 2239 0.77		24 0343 0.47 0938 0.94 SU 1422 0.69 2144 1.25			

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LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2020

Time	m	Time	m	Time	m	Time	m
1	0347 1.14	9	0531 0.38	17	0007 0.68	25	0543 0.40
	1026 0.40		1151 0.93		0539 0.99		1200 1.00
MO	1704 1.14	TU	1657 0.81	WE	1117 0.59	TH	1713 0.78
	2301 0.61		2325 1.27		1817 1.14		2326 1.29
2	0458 1.12	10	0619 0.44	18	0047 0.61	26	0633 0.41
	1113 0.41		1250 0.94		0624 0.98		1257 1.02
TU	1800 1.20	WE	1753 0.84	TH	1148 0.60	FR	1817 0.78
					1855 1.19		
3	0009 0.50	11	0004 1.21	19	0125 0.55	27	0010 1.25
	0605 1.09		0707 0.50		0706 0.97		0723 0.42
WE	1158 0.44	TH	1349 0.95	FR	1220 0.62	SA	1353 1.05
	1854 1.25	*	1847 0.86		1933 1.23		1919 0.76
4	0109 0.41	12	0044 1.16	20	0202 0.49	28	0106 1.19
	0706 1.05		0754 0.54		0747 0.97		0812 0.44
TH	1242 0.49	FR	1441 0.97	SA	1254 0.64	SU	1447 1.09
	1946 1.30		1944 0.87		2011 1.27	☉	2024 0.73
5	0204 0.34	13	0131 1.11	21	0241 0.45	29	0217 1.13
	0805 1.02		0840 0.56		0829 0.97		0902 0.46
FR	1325 0.55	SA	1527 0.99	SU	1330 0.67	MO	1543 1.13
	2034 1.34	☉	2046 0.86	●	2049 1.30		2138 0.68
6	0257 0.31	14	0231 1.07	22	0323 0.42	30	0342 1.07
	0901 0.99		0924 0.57		0915 0.97		0950 0.49
SA	1412 0.62	SU	1611 1.03	MO	1412 0.70	TU	1642 1.18
☉	2120 1.35		2206 0.82		2128 1.32		2303 0.59
7	0349 0.31	15	0341 1.03	23	0408 0.41		
	0957 0.96		1006 0.58		1006 0.98		
SU	1503 0.69	MO	1654 1.06	TU	1503 0.74		
	2204 1.34		2316 0.75		2207 1.33		
8	0440 0.34	16	0445 1.01	24	0455 0.40		
	1053 0.94		1043 0.58		1101 0.99		
MO	1559 0.76	TU	1736 1.10	WE	1606 0.76		
	2245 1.31				2246 1.32		

Lakes Ent

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

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0459 1.03 1039 0.52 WE 1743 1.24		9 0541 0.46 1159 0.95 TH 1720 0.80 2324 1.21		17 0024 0.60 0602 0.94 FR 1110 0.64 1826 1.20		25 0605 0.38 1231 1.06 SA 1806 0.68 2358 1.21	
2 0013 0.49 0604 1.01 TH 1126 0.55 1839 1.29		10 0622 0.51 1246 0.97 FR 1814 0.83 2357 1.15		18 0102 0.52 0644 0.95 SA 1152 0.64 1906 1.25		26 0653 0.43 1324 1.09 SU 1909 0.67	
3 0111 0.41 0700 0.99 FR 1212 0.59 1930 1.33		11 0703 0.56 1329 0.98 SA 1907 0.84		19 0139 0.45 0725 0.97 SU 1234 0.63 1947 1.29		27 0100 1.11 0742 0.49 MO 1420 1.11 ● 2017 0.66	
4 0202 0.35 0751 0.98 SA 1259 0.62 2017 1.35		12 0036 1.09 0744 0.59 SU 1411 1.01 2007 0.84		20 0219 0.39 0807 0.98 MO 1318 0.64 2027 1.33		28 0222 1.02 0831 0.54 TU 1521 1.14 2140 0.62	
5 0249 0.32 0841 0.97 SU 1347 0.66 ○ 2100 1.35		13 0132 1.03 0825 0.61 MO 1457 1.04 ● 2121 0.82		21 0302 0.34 0853 1.00 TU 1407 0.64 ● 2107 1.35		29 0350 0.96 0921 0.58 WE 1629 1.18 2313 0.54	
6 0333 0.33 0929 0.96 MO 1437 0.70 2141 1.34		14 0250 0.98 0907 0.62 TU 1550 1.07 2244 0.76		22 0346 0.32 0944 1.01 WE 1500 0.65 2147 1.35		30 0503 0.94 1013 0.61 TH 1732 1.23	
7 0416 0.36 1019 0.95 TU 1531 0.73 2219 1.31		15 0412 0.95 0949 0.63 WE 1649 1.11 2341 0.68		23 0431 0.32 1039 1.02 TH 1600 0.66 2228 1.33		31 0022 0.45 0602 0.94 FR 1105 0.62 1826 1.27	
8 0459 0.41 1110 0.95 WE 1626 0.77 2254 1.26		16 0515 0.94 1030 0.63 TH 1741 1.15		24 0518 0.34 1136 1.04 FR 1703 0.67 2310 1.28			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0115 0.38 0650 0.94 SA 1155 0.62 1915 1.30		9 0612 0.56 1225 0.99 SU 1830 0.77 2343 1.03		17 0115 0.37 0702 0.96 MO 1219 0.58 1919 1.28		25 0109 0.99 0712 0.56 TU 1353 1.11 2013 0.55	
2 0158 0.33 0735 0.95 SU 1243 0.62 1958 1.31		10 0649 0.61 1305 1.01 MO 1928 0.78		18 0156 0.30 0744 0.99 TU 1308 0.55 1959 1.32		26 0233 0.91 0804 0.62 WE 1502 1.12 ● 2150 0.53	
3 0236 0.32 0817 0.95 MO 1331 0.62 2039 1.30		11 0045 0.96 0730 0.64 TU 1350 1.02 2033 0.77		19 0237 0.26 0831 1.01 WE 1358 0.53 ● 2040 1.33		27 0359 0.88 0859 0.66 TH 1618 1.14 2323 0.46	
4 0311 0.34 0900 0.95 TU 1418 0.63 ○ 2116 1.28		12 0214 0.90 0815 0.66 WE 1446 1.04 ● 2154 0.72		20 0320 0.24 0921 1.03 TH 1452 0.52 2123 1.32		28 0506 0.88 0956 0.67 FR 1721 1.18	
5 0347 0.37 0943 0.95 WE 1506 0.65 2149 1.24		13 0345 0.88 0904 0.67 TH 1559 1.07 2308 0.64		21 0404 0.27 1016 1.06 FR 1551 0.52 2209 1.27		29 0024 0.40 0555 0.90 SA 1052 0.65 1812 1.21	
6 0423 0.41 1025 0.96 TH 1555 0.68 2217 1.20		14 0454 0.88 0954 0.67 FR 1708 1.12 2355 0.55		22 0449 0.32 1109 1.08 SA 1653 0.52 2259 1.20		30 0107 0.35 0637 0.92 SU 1145 0.62 1857 1.22	
7 0500 0.46 1107 0.96 FR 1645 0.72 2241 1.15		15 0542 0.90 1043 0.65 SA 1758 1.17		23 0535 0.39 1202 1.10 SU 1756 0.54 2358 1.10		31 0142 0.33 0716 0.94 MO 1235 0.58 1938 1.22	
8 0536 0.52 1146 0.97 SA 1736 0.75 2306 1.09		16 0035 0.46 0622 0.93 SU 1132 0.62 1839 1.23		24 0623 0.47 1254 1.11 MO 1902 0.55			

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

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0211 0.33 0754 0.95 TU 1321 0.56 2015 1.21		9 0028 0.88 0632 0.68 WE 1247 1.02 1954 0.68		17 0208 0.21 0808 1.04 TH 1350 0.41 ● 2013 1.26		25 0409 0.85 0841 0.71 FR 1601 1.09 2313 0.41	
2 0241 0.35 0830 0.96 WE 1406 0.55 ○ 2047 1.18		10 0152 0.84 0729 0.71 TH 1346 1.02 ● 2100 0.64		18 0248 0.23 0858 1.07 FR 1445 0.38 2102 1.23		26 0504 0.87 0943 0.70 SA 1703 1.11	
3 0312 0.38 0906 0.96 TH 1450 0.56 2115 1.15		11 0321 0.83 0826 0.71 FR 1504 1.03 2216 0.58		19 0331 0.28 0951 1.10 SA 1543 0.37 2157 1.16		27 0003 0.38 0542 0.90 SU 1044 0.65 1753 1.12	
4 0343 0.42 0940 0.97 FR 1533 0.58 2140 1.10		12 0432 0.85 0923 0.69 SA 1628 1.07 2318 0.49		20 0416 0.36 1042 1.13 SU 1645 0.38 2257 1.07		28 0040 0.36 0617 0.92 MO 1140 0.60 1835 1.13	
5 0414 0.47 1013 0.98 SA 1618 0.61 2203 1.06		13 0519 0.89 1019 0.65 SU 1723 1.13		21 0503 0.46 1132 1.14 MO 1748 0.40		29 0109 0.36 0652 0.94 TU 1230 0.55 1912 1.12	
6 0443 0.53 1046 1.00 SU 1706 0.64 2233 1.00		14 0004 0.39 0558 0.93 MO 1113 0.59 1806 1.19		22 0002 0.98 0553 0.56 TU 1225 1.13 1853 0.43		30 0135 0.37 0728 0.96 WE 1316 0.51 1947 1.10	
7 0510 0.58 1120 1.01 MO 1758 0.67 2318 0.94		15 0045 0.31 0638 0.97 TU 1205 0.52 1847 1.24		23 0115 0.90 0646 0.64 WE 1324 1.11 2007 0.45			
8 0543 0.63 1200 1.01 TU 1854 0.68		16 0127 0.24 0721 1.01 WE 1257 0.46 1928 1.26		24 0243 0.85 0742 0.70 TH 1441 1.09 ● 2154 0.44			

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

LAKES ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0203 0.38 0801 0.97 TH 1358 0.48 2017 1.07		9 0135 0.82 0648 0.75 FR 1252 1.02 2020 0.55		17 0210 0.28 0836 1.13 SA 1440 0.27 ● 2052 1.10		25 0605 0.89 0927 0.71 SU 1629 1.04 2323 0.40	
2 0231 0.42 0832 0.99 FR 1440 0.48 ○ 2047 1.04		10 0255 0.83 0754 0.75 SA 1403 1.02 ● 2126 0.50		18 0253 0.35 0927 1.17 SU 1538 0.25 2152 1.04		26 0519 0.91 1035 0.66 MO 1720 1.03 2355 0.41	
3 0256 0.46 0900 1.01 SA 1521 0.49 2117 1.00		11 0404 0.86 0854 0.71 SU 1525 1.04 2232 0.42		19 0338 0.45 1017 1.19 MO 1637 0.26 2254 0.96		27 0552 0.94 1136 0.60 TU 1802 1.02	
4 0317 0.51 0928 1.02 SU 1602 0.51 2151 0.96		12 0449 0.90 0954 0.65 MO 1632 1.09 2324 0.34		20 0430 0.55 1107 1.18 TU 1738 0.28		28 0022 0.41 0626 0.96 WE 1226 0.53 1840 1.01	
5 0328 0.56 0959 1.04 MO 1646 0.53 2232 0.92		13 0529 0.95 1054 0.57 TU 1724 1.13		21 0000 0.90 0526 0.64 WE 1158 1.16 1841 0.33		29 0050 0.41 0700 0.99 TH 1311 0.48 1917 0.99	
6 0338 0.61 1034 1.05 TU 1734 0.56 2323 0.88		14 0009 0.27 0612 1.00 WE 1153 0.48 1812 1.17		22 0116 0.86 0624 0.71 TH 1254 1.12 1951 0.37		30 0117 0.43 0732 1.01 FR 1351 0.45 1952 0.96	
7 0359 0.66 1113 1.04 WE 1826 0.57		15 0050 0.24 0656 1.05 TH 1248 0.39 1900 1.17		23 0453 0.85 0723 0.74 FR 1406 1.07 *● 2128 0.40		31 0141 0.46 0804 1.03 SA 1431 0.42 2027 0.94	
8 0024 0.84 0428 0.71 TH 1157 1.03 1921 0.57		16 0130 0.24 0744 1.09 FR 1344 0.32 1954 1.15		24 0541 0.88 0823 0.74 SA 1526 1.05 2238 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

NOVEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0200 0.50 0836 1.06 SU 1509 0.42 ○ 2104 0.91		9 0324 0.88 0828 0.71 MO 1422 1.04 2143 0.37		17 0302 0.53 0958 1.24 TU 1629 0.18 2244 0.90		25 0521 0.96 1127 0.61 WE 1721 0.93 2328 0.45	
2 0213 0.55 0909 1.08 MO 1548 0.42 2143 0.89		10 0413 0.93 0931 0.65 TU 1534 1.05 2237 0.32		18 0358 0.61 1046 1.23 WE 1725 0.21 2348 0.86		26 0558 0.99 1218 0.54 TH 1807 0.91 2358 0.46	
3 0227 0.60 0943 1.09 TU 1629 0.44 2226 0.87		11 0458 0.99 1037 0.56 WE 1642 1.06 2324 0.28		19 0500 0.68 1134 1.19 TH 1821 0.27		27 0633 1.02 1302 0.48 FR 1850 0.89	
4 0246 0.64 1019 1.09 WE 1714 0.45 2315 0.85		12 0543 1.05 1143 0.45 TH 1745 1.07		20 0100 0.85 0601 0.72 FR 1224 1.14 1919 0.33		28 0026 0.48 0709 1.05 SA 1342 0.43 1930 0.88	
5 0309 0.69 1055 1.08 TH 1802 0.46		13 0007 0.28 0633 1.10 FR 1243 0.35 1847 1.05		21 0219 0.86 0659 0.74 SA 1318 1.07 2020 0.39		29 0050 0.50 0744 1.08 SU 1419 0.39 2008 0.87	
6 0012 0.83 0341 0.74 FR 1134 1.07 1854 0.46		14 0048 0.30 0725 1.15 SA 1341 0.26 1947 1.02		22 0509 0.88 0758 0.74 SU 1422 1.02 ○ 2124 0.42		30 0112 0.53 0820 1.11 MO 1455 0.36 ○ 2046 0.86	
7 0116 0.83 0619 0.77 SA 1218 1.05 1948 0.45		15 0130 0.36 0817 1.20 SU 1436 0.20 ● 2046 0.98		23 0408 0.90 0902 0.72 MO 1529 0.97 2215 0.44			
8 0224 0.85 0726 0.76 SU 1314 1.04 ● 2045 0.42		16 0213 0.44 0909 1.23 MO 1533 0.17 2144 0.94		24 0444 0.93 1018 0.68 TU 1629 0.95 2254 0.45			

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LAKE ENTRANCE (OUTER)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0135 0.57 0857 1.13 TU 1532 0.35 2126 0.86		9 0338 0.97 0911 0.63 WE 1452 1.00 2152 0.33		17 0333 0.61 1028 1.26 TH 1706 0.18 2323 0.85		25 0526 0.99 1205 0.56 FR 1739 0.83 2307 0.50	
2 0159 0.61 0934 1.15 WE 1612 0.35 2209 0.85		10 0429 1.02 1024 0.54 TH 1618 0.97 2241 0.33		18 0435 0.65 1112 1.21 FR 1753 0.25		26 0607 1.03 1250 0.48 SA 1828 0.83 2341 0.51	
3 0228 0.65 1009 1.15 TH 1655 0.35 2257 0.85		11 0522 1.08 1139 0.43 FR 1738 0.95 2327 0.34		19 0024 0.85 0534 0.69 SA 1153 1.15 1840 0.32		27 0647 1.07 1328 0.41 SU 1909 0.83	
4 0307 0.69 1044 1.14 FR 1740 0.36 2351 0.84		12 0617 1.14 1244 0.32 SA 1844 0.94		20 0125 0.86 0631 0.71 SU 1231 1.07 1927 0.38		28 0012 0.52 0725 1.11 MO 1403 0.36 1947 0.84	
5 0434 0.73 1117 1.12 SA 1828 0.36		13 0012 0.38 0712 1.20 SU 1342 0.22 1942 0.92		21 0221 0.87 0727 0.72 MO 1310 1.00 2014 0.43		29 0045 0.54 0803 1.15 TU 1437 0.31 2024 0.85	
6 0051 0.85 0559 0.74 SU 1155 1.10 1918 0.36		14 0057 0.43 0805 1.25 MO 1436 0.15 2036 0.90		22 0312 0.89 0829 0.72 TU 1401 0.93 ● 2101 0.46		30 0120 0.56 0842 1.18 WE 1514 0.28 ○ 2104 0.85	
7 0151 0.88 0704 0.72 MO 1240 1.08 2009 0.35		15 0143 0.49 0855 1.27 TU 1527 0.13 ● 2130 0.89		23 0357 0.92 0947 0.69 WE 1516 0.87 2147 0.48		31 0158 0.58 0919 1.19 TH 1552 0.26 2146 0.86	
8 0246 0.92 0806 0.69 TU 1339 1.04 ● 2101 0.34		16 0235 0.55 0943 1.28 WE 1617 0.14 2225 0.87		24 0442 0.96 1108 0.63 TH 1637 0.84 2230 0.49			

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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	MLHW	MHLW	MLLW
		metres	metres	metres	metres
<i>Port Phillip Heads</i>	(3 20)	1.5	1.3	0.6	0.4
<i>Dromana</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Mornington</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Portarlington</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Werribee River Entrance</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Point Cook</i>	(0 05)	1.0	0.6	0.5	0.2
<i>Frankston Pier</i>	(0 03)	1.0	0.6	0.5	0.2
<i>Mordialloc Pier</i>	(0 03)	1.0	0.6	0.5	0.2
Sandringham Pier	0 00	1.0	0.6	0.5	0.2
Altona Pier	0 00	1.0	0.6	0.5	0.2
St Kilda Pier	0 00	1.0	0.6	0.5	0.2
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
1.16	Highest recorded tide 24/06/2014 (1966 - 2018)	1.64
0.52	Highest Astronomical Tide (HAT)	1.04
0.42	Mean Higher High Water (MHHW)	0.94
0.12	Mean Lower Higher Water (MLHW)	0.64
0.000	Australian Height Datum	0.524
-0.08	Mean Higher Low Water (MHLW)	0.44
-0.38	Mean Lower Low Water (MLLW)	0.14
- 0.48	Lowest Astronomical Tide (LAT)	0.046
-0.524	Chart & Prediction Datum	0.000
-0.76	Lowest recorded tide 02/12/1966 (1966-2018)	-0.24

Melbourne

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0038 0.23 0716 0.93 WE 1327 0.41 1852 0.82		9 0149 0.79 0640 0.58 TH 1211 0.82 1936 0.21		17 0121 0.24 0741 0.94 FR 1410 0.32 ● 1952 0.87		25 0335 0.88 0937 0.51 SA 1415 0.80 ● 2137 0.18	
2 0113 0.26 0746 0.92 TH 1401 0.39 1936 0.80		10 0259 0.84 0807 0.59 FR 1310 0.81 2035 0.18		18 0202 0.29 0817 0.93 SA 1457 0.28 2047 0.85		26 0425 0.90 1031 0.47 SU 1525 0.79 2226 0.19	
3 0145 0.29 0816 0.91 FR 1437 0.38 ● 2020 0.78		11 0353 0.88 0926 0.57 SA 1407 0.82 ○ 2130 0.16		19 0245 0.34 0855 0.93 SU 1545 0.25 2148 0.83		27 0507 0.90 1116 0.43 MO 1624 0.80 2309 0.20	
4 0218 0.32 0845 0.90 SA 1514 0.35 2107 0.76		12 0439 0.91 1023 0.53 SU 1504 0.84 2222 0.15		20 0331 0.40 0935 0.92 MO 1638 0.23 2300 0.82		28 0544 0.90 1156 0.40 TU 1714 0.81 2346 0.22	
5 0254 0.37 0916 0.89 SU 1554 0.33 2200 0.75		13 0520 0.93 1111 0.49 MO 1601 0.85 2311 0.16		21 0423 0.46 1019 0.90 TU 1734 0.21		29 0615 0.90 1231 0.38 WE 1758 0.81	
6 0334 0.42 0950 0.87 MO 1640 0.30 2304 0.74		14 0557 0.93 1156 0.45 TU 1702 0.87 2356 0.17		22 0018 0.82 0527 0.51 WE 1111 0.87 1835 0.20		30 0021 0.24 0645 0.90 TH 1304 0.36 1839 0.81	
7 0423 0.49 1030 0.85 TU 1733 0.28		15 0632 0.93 1240 0.40 WE 1801 0.88		23 0131 0.83 0646 0.54 TH 1208 0.84 1938 0.19		31 0053 0.27 0713 0.90 FR 1336 0.34 1919 0.81	
8 0023 0.76 0524 0.55 WE 1115 0.83 1834 0.25		16 0039 0.20 0706 0.94 TH 1325 0.36 1857 0.88		24 0237 0.86 0823 0.54 FR 1309 0.81 2040 0.18			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0124 0.30 0740 0.90 SA 1409 0.32 2000 0.80		9 0316 0.82 0833 0.55 SU 1337 0.80 ○ 2102 0.17		17 0235 0.37 0828 0.93 MO 1524 0.20 2138 0.86		25 0435 0.85 1054 0.39 TU 1619 0.78 2254 0.25	
2 0154 0.33 0807 0.90 SU 1444 0.29 ● 2043 0.80		10 0406 0.85 0950 0.50 MO 1445 0.82 2202 0.17		18 0318 0.42 0908 0.91 TU 1611 0.20 2242 0.83		26 0510 0.86 1130 0.36 WE 1705 0.80 2332 0.27	
3 0228 0.37 0835 0.89 MO 1521 0.27 2129 0.78		11 0447 0.88 1047 0.44 TU 1557 0.85 2257 0.18		19 0404 0.46 0952 0.89 WE 1701 0.21 2350 0.82		27 0541 0.86 1203 0.33 TH 1746 0.82	
4 0304 0.42 0907 0.88 TU 1601 0.25 2223 0.77		12 0525 0.89 1136 0.37 WE 1702 0.87 2345 0.20		20 0500 0.50 1043 0.85 TH 1759 0.22		28 0006 0.29 0609 0.87 FR 1234 0.31 1825 0.84	
5 0348 0.48 0942 0.86 WE 1648 0.24 2330 0.76		13 0600 0.91 1223 0.32 TH 1800 0.90		21 0059 0.81 0612 0.52 FR 1142 0.80 1903 0.23		29 0037 0.32 0635 0.88 SA 1306 0.29 1902 0.85	
6 0441 0.53 1025 0.84 TH 1745 0.22		14 0030 0.24 0636 0.92 FR 1308 0.27 1854 0.91		22 0204 0.82 0752 0.52 SA 1248 0.77 2012 0.23			
7 0052 0.77 0547 0.57 FR 1121 0.81 1850 0.21		15 0112 0.28 0712 0.93 SA 1353 0.23 1946 0.90		23 0303 0.83 0916 0.48 SU 1409 0.75 2116 0.23			
8 0214 0.79 0708 0.58 SA 1230 0.80 1959 0.19		16 0154 0.32 0749 0.94 SU 1438 0.21 ● 2041 0.88		24 0354 0.84 1011 0.43 MO 1524 0.76 ● 2210 0.23			

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Datum is Lowest Astronomical Tide

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

MELBOURNE (WILLIAMSTOWN)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2020

Time	m	Time	m	Time	m	Time	m
1 0106 0.35 0701 0.89 SU 1338 0.27 1940 0.85		9 0222 0.80 0752 0.50 MO 1320 0.80 2032 0.23		17 0222 0.41 0800 0.93 TU 1456 0.19 2122 0.91		25 0353 0.83 1021 0.35 WE 1610 0.81 2235 0.34	
2 0135 0.37 0729 0.89 MO 1413 0.25 2019 0.85		10 0317 0.82 0914 0.44 TU 1442 0.83 ○ 2142 0.24		18 0303 0.44 0843 0.91 WE 1539 0.21 2216 0.87		26 0428 0.84 1056 0.32 TH 1654 0.85 2314 0.36	
3 0207 0.40 0757 0.89 TU 1448 0.24 ● 2101 0.84		11 0403 0.85 1019 0.36 WE 1558 0.87 2242 0.26		19 0347 0.47 0928 0.87 TH 1624 0.24 2314 0.84		27 0458 0.85 1128 0.29 FR 1733 0.88 2348 0.38	
4 0241 0.44 0828 0.88 WE 1526 0.23 2148 0.82		12 0445 0.87 1112 0.29 TH 1700 0.91 2332 0.29		20 0438 0.49 1020 0.82 FR 1716 0.27		28 0525 0.86 1200 0.27 SA 1811 0.90	
5 0321 0.48 0903 0.86 TH 1609 0.23 2245 0.79		13 0523 0.90 1200 0.24 FR 1754 0.94		21 0015 0.82 0546 0.51 SA 1123 0.77 1821 0.29		29 0020 0.40 0552 0.88 SU 1232 0.26 1846 0.92	
6 0409 0.52 0946 0.84 FR 1700 0.22 2356 0.78		14 0017 0.32 0601 0.92 SA 1245 0.20 1846 0.96		22 0120 0.81 0725 0.49 SU 1239 0.74 1936 0.31		30 0050 0.42 0620 0.89 MO 1306 0.25 1923 0.92	
7 0511 0.54 1046 0.82 SA 1805 0.23		15 0100 0.35 0640 0.94 SU 1329 0.18 1937 0.95		23 0221 0.81 0847 0.45 MO 1409 0.74 2051 0.32		31 0120 0.44 0650 0.90 TU 1341 0.25 2000 0.92	
8 0114 0.78 0629 0.54 SU 1201 0.80 1919 0.23		16 0142 0.38 0720 0.94 MO 1413 0.18 ● 2030 0.93		24 0312 0.82 0941 0.40 TU 1517 0.77 ● 2149 0.32			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0150 0.46 0721 0.89 WE 1416 0.25 ☉ 2039 0.90		9 0313 0.87 0949 0.29 TH 1555 0.93 2225 0.38		17 0331 0.49 0908 0.86 FR 1546 0.30 2233 0.89		25 0404 0.87 1048 0.27 SA 1720 0.95 2327 0.49	
2 0224 0.49 0755 0.88 TH 1453 0.24 2122 0.88		10 0359 0.89 1045 0.24 FR 1654 0.97 2316 0.41		18 0420 0.50 1003 0.81 SA 1632 0.33 2324 0.87		26 0434 0.89 1123 0.26 SU 1758 0.98	
3 0301 0.51 0833 0.87 FR 1533 0.24 2212 0.85		11 0442 0.92 1132 0.20 SA 1746 1.00		19 0528 0.50 1110 0.77 SU 1730 0.38		27 0000 0.50 0506 0.90 MO 1200 0.26 1834 0.99	
4 0348 0.52 0923 0.85 SA 1622 0.26 2310 0.83		12 0001 0.43 0524 0.94 SU 1217 0.19 1837 1.02		20 0021 0.84 0655 0.47 MO 1231 0.75 1850 0.42		28 0032 0.51 0540 0.91 TU 1235 0.26 1910 0.99	
5 0449 0.52 1030 0.82 SU 1725 0.28		13 0045 0.44 0606 0.96 MO 1301 0.19 1926 1.01		21 0120 0.83 0804 0.43 TU 1359 0.77 2014 0.44		29 0105 0.52 0615 0.91 WE 1312 0.27 1945 0.98	
6 0015 0.82 0605 0.49 MO 1150 0.81 1841 0.31		14 0126 0.45 0650 0.95 TU 1344 0.21 2014 0.99		22 0214 0.83 0856 0.38 WE 1504 0.81 2119 0.45		30 0137 0.53 0651 0.91 TH 1347 0.27 2023 0.96	
7 0120 0.83 0726 0.44 TU 1317 0.83 2000 0.34		15 0206 0.46 0734 0.94 WE 1425 0.23 ☉ 2100 0.96		23 0257 0.84 0937 0.33 TH 1556 0.87 ☉ 2209 0.46			
8 0220 0.84 0843 0.37 WE 1445 0.87 ☉ 2119 0.36		16 0247 0.47 0820 0.90 TH 1505 0.26 2146 0.93		24 0332 0.85 1014 0.30 FR 1641 0.92 2250 0.47			

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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

MAY - 2020

Time	m	Time	m	Time	m	Time	m
1 0212 0.54 0730 0.90 FR 1424 0.28 ● 2102 0.94		9 0311 0.93 1015 0.22 SA 1647 1.03 2258 0.52		17 0404 0.50 0947 0.81 SU 1552 0.40 2234 0.92		25 0346 0.91 1049 0.26 MO 1745 1.03 2339 0.57	
2 0252 0.53 0816 0.88 SA 1504 0.29 2145 0.92		10 0400 0.95 1104 0.20 SU 1739 1.05 2344 0.52		18 0504 0.48 1053 0.78 MO 1640 0.45 2319 0.90		26 0426 0.93 1130 0.26 TU 1823 1.04	
3 0340 0.52 0916 0.86 SU 1551 0.32 2233 0.90		11 0447 0.97 1149 0.21 MO 1827 1.06		19 0615 0.45 1213 0.78 TU 1745 0.51		27 0015 0.57 0506 0.93 WE 1209 0.27 1858 1.03	
4 0440 0.49 1029 0.84 MO 1651 0.36 2328 0.90		12 0027 0.52 0535 0.97 TU 1232 0.23 1912 1.05		20 0007 0.88 0714 0.41 WE 1337 0.81 1918 0.56		28 0050 0.57 0547 0.93 TH 1246 0.28 1932 1.02	
5 0551 0.44 1150 0.84 TU 1805 0.42		13 0108 0.51 0623 0.96 WE 1314 0.25 1954 1.03		21 0057 0.87 0803 0.36 TH 1444 0.86 2037 0.58		29 0127 0.56 0631 0.92 FR 1324 0.29 2007 1.00	
6 0025 0.89 0707 0.38 WE 1321 0.88 1928 0.47		14 0150 0.51 0712 0.93 TH 1353 0.28 2034 1.00		22 0143 0.87 0848 0.32 FR 1538 0.92 2135 0.58		30 0205 0.55 0720 0.91 SA 1401 0.31 ● 2042 0.99	
7 0123 0.90 0816 0.31 TH 1444 0.93 ○ 2055 0.50		15 0231 0.50 0800 0.89 FR 1432 0.32 ● 2114 0.98		23 0226 0.88 0930 0.29 SA 1625 0.97 ● 2222 0.58		31 0247 0.52 0817 0.89 SU 1442 0.34 2120 0.98	
8 0219 0.91 0920 0.25 FR 1550 0.99 2205 0.51		16 0315 0.50 0851 0.85 SA 1511 0.35 2153 0.95		24 0307 0.89 1010 0.27 SU 1706 1.01 2301 0.58			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0337 0.49 0921 0.87 MO 1529 0.39 2202 0.97		9 0417 0.96 1124 0.24 TU 1812 1.06		17 0521 0.42 1139 0.80 WE 1647 0.56 2306 0.92		25 0443 0.93 1146 0.26 TH 1839 1.03	
2 0434 0.44 1031 0.87 TU 1626 0.45 2249 0.96		10 0011 0.55 0511 0.96 WE 1206 0.26 1852 1.05		18 0617 0.38 1301 0.83 TH 1753 0.62 2352 0.90		26 0035 0.56 0533 0.93 FR 1227 0.28 1912 1.02	
3 0540 0.38 1154 0.88 WE 1735 0.52 2342 0.96		11 0053 0.53 0603 0.94 TH 1246 0.29 1930 1.04		19 0711 0.34 1415 0.88 FR 1928 0.66		27 0115 0.53 0628 0.92 SA 1306 0.31 1945 1.01	
4 0648 0.32 1322 0.92 TH 1857 0.57		12 0134 0.51 0654 0.91 FR 1325 0.32 2005 1.02		20 0041 0.89 0800 0.30 SA 1514 0.93 2048 0.66		28 0158 0.50 0725 0.91 SU 1345 0.34 2018 1.01	
5 0038 0.95 0753 0.27 FR 1438 0.97 2026 0.60		13 0215 0.50 0744 0.88 SA 1401 0.36 2040 1.00		21 0131 0.89 0848 0.27 SU 1604 0.98 2147 0.65		29 0243 0.46 0823 0.90 MO 1427 0.39 2054 1.01	
6 0134 0.95 0854 0.23 SA 1544 1.02 2144 0.60		14 0257 0.49 0834 0.84 SU 1438 0.39 2114 0.98		22 0220 0.90 0935 0.25 MO 1648 1.01 2234 0.63		30 0332 0.41 0923 0.89 TU 1513 0.44 2132 1.00	
7 0230 0.96 0949 0.22 SU 1639 1.05 2239 0.59		15 0340 0.48 0927 0.82 MO 1515 0.44 2148 0.96		23 0308 0.91 1020 0.25 TU 1729 1.03 2315 0.60			
8 0324 0.96 1039 0.22 MO 1729 1.06 2327 0.57		16 0427 0.45 1027 0.80 TU 1558 0.50 2225 0.94		24 0355 0.93 1104 0.25 WE 1805 1.03 2356 0.58			

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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

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0426 0.36 1031 0.88 WE 1605 0.51 2216 0.99		9 0459 0.91 1145 0.28 TH 1828 1.02		17 0519 0.33 1210 0.83 FR 1700 0.62 2252 0.91		25 0017 0.49 0532 0.92 SA 1212 0.28 1843 1.00	
2 0525 0.32 1153 0.89 TH 1709 0.57 2305 0.98		10 0037 0.50 0551 0.90 FR 1224 0.30 1901 1.01		18 0615 0.30 1331 0.86 SA 1807 0.66 2345 0.89		26 0100 0.44 0630 0.92 SU 1253 0.31 1916 1.00	
3 0627 0.27 1315 0.92 FR 1826 0.62		11 0116 0.48 0640 0.88 SA 1300 0.34 1933 1.00		19 0714 0.28 1440 0.89 SU 1933 0.68		27 0145 0.40 0725 0.92 MO 1334 0.36 1950 1.00	
4 0000 0.96 0729 0.24 SA 1427 0.96 1955 0.64		12 0154 0.46 0727 0.86 SU 1334 0.37 2003 0.99		20 0043 0.88 0810 0.25 MO 1535 0.93 2059 0.66		28 0230 0.35 0820 0.91 TU 1416 0.41 2026 1.00	
5 0100 0.95 0830 0.23 SU 1530 0.99 2121 0.63		13 0230 0.44 0813 0.84 MO 1408 0.41 2032 0.98		21 0141 0.88 0904 0.23 TU 1621 0.96 2200 0.62		29 0318 0.32 0919 0.89 WE 1500 0.47 2104 1.00	
6 0159 0.94 0926 0.22 MO 1625 1.02 2222 0.60		14 0307 0.42 0900 0.83 TU 1443 0.45 2102 0.97		22 0237 0.89 0955 0.22 WE 1701 0.98 2250 0.58		30 0409 0.29 1026 0.88 TH 1549 0.52 2146 0.98	
7 0259 0.93 1017 0.23 TU 1711 1.02 2312 0.56		15 0346 0.39 0953 0.82 WE 1521 0.50 2134 0.96		23 0333 0.90 1044 0.23 TH 1737 0.99 2334 0.53		31 0502 0.26 1144 0.88 FR 1645 0.58 2234 0.96	
8 0400 0.92 1103 0.25 WE 1751 1.02 2356 0.53		16 0430 0.36 1056 0.82 TH 1606 0.56 2210 0.93		24 0432 0.91 1129 0.25 FR 1811 0.99			

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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

AUGUST - 2020

Time	m	Time	m	Time	m	Time	m
1 0601 0.25 1257 0.89 SA 1756 0.61 2331 0.93		9 0051 0.41 0626 0.86 SU 1240 0.34 1858 0.95		17 0626 0.26 1348 0.83 MO 1834 0.64		25 0125 0.28 0718 0.94 TU 1326 0.38 1920 0.99	
2 0703 0.24 1405 0.91 SU 1924 0.62		10 0125 0.39 0708 0.85 MO 1312 0.37 1925 0.96		18 0000 0.85 0731 0.24 TU 1452 0.86 2000 0.61		26 0211 0.26 0813 0.92 WE 1408 0.43 ● 1958 0.99	
3 0034 0.90 0806 0.23 MO 1507 0.93 2102 0.60		11 0158 0.37 0749 0.85 TU 1343 0.41 1951 0.96		19 0110 0.84 0833 0.22 WE 1541 0.89 ● 2119 0.56		27 0257 0.24 0910 0.90 TH 1450 0.47 2037 0.97	
4 0140 0.88 0907 0.23 TU 1600 0.95 ○ 2206 0.55		12 0231 0.35 0832 0.84 WE 1415 0.45 ● 2019 0.95		20 0217 0.85 0931 0.22 TH 1622 0.91 2219 0.50		28 0344 0.24 1014 0.87 FR 1535 0.51 2120 0.95	
5 0252 0.86 1001 0.24 WE 1645 0.96 2257 0.50		13 0308 0.32 0918 0.83 TH 1450 0.49 2048 0.94		21 0327 0.88 1025 0.23 FR 1659 0.93 2309 0.43		29 0433 0.24 1121 0.85 SA 1627 0.54 2210 0.91	
6 0400 0.86 1048 0.26 TH 1724 0.96 2339 0.46		14 0348 0.30 1012 0.82 FR 1530 0.54 2122 0.92		22 0432 0.90 1114 0.26 SA 1734 0.95 2355 0.37		30 0530 0.25 1229 0.85 SU 1731 0.57 2310 0.87	
7 0454 0.86 1130 0.28 FR 1758 0.96		15 0432 0.29 1115 0.81 SA 1619 0.58 2201 0.90		23 0531 0.93 1200 0.30 SU 1808 0.96		31 0633 0.25 1333 0.85 MO 1901 0.57	
8 0016 0.44 0542 0.86 SA 1206 0.31 1829 0.95		16 0525 0.27 1230 0.82 SU 1718 0.62 2254 0.87		24 0040 0.32 0626 0.94 MO 1243 0.34 1844 0.98			

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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

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0019 0.83 0742 0.25 TU 1435 0.86 2045 0.53		9 0121 0.30 0727 0.88 WE 1321 0.42 1910 0.93		17 0052 0.81 0800 0.25 TH 1446 0.83 ● 2038 0.47		25 0230 0.21 0856 0.91 FR 1438 0.46 2014 0.94	
2 0139 0.80 0849 0.26 WE 1529 0.88 ○ 2148 0.47		10 0156 0.28 0805 0.87 TH 1351 0.45 ● 1938 0.92		18 0212 0.84 0906 0.26 FR 1533 0.86 2145 0.39		26 0314 0.23 0951 0.88 SA 1522 0.49 2100 0.90	
3 0300 0.81 0947 0.26 TH 1613 0.89 2235 0.42		11 0231 0.27 0846 0.86 FR 1424 0.48 2009 0.91		19 0328 0.88 1007 0.28 SA 1615 0.89 2240 0.32		27 0400 0.25 1048 0.85 SU 1611 0.50 2153 0.85	
4 0359 0.82 1035 0.28 FR 1649 0.89 2314 0.38		12 0309 0.26 0932 0.83 SA 1501 0.51 2042 0.89		20 0430 0.92 1100 0.31 SU 1653 0.91 2329 0.26		28 0452 0.27 1148 0.82 MO 1714 0.52 2258 0.80	
5 0447 0.84 1115 0.30 SA 1721 0.90 2347 0.35		13 0351 0.26 1027 0.81 SU 1546 0.54 2122 0.87		21 0525 0.96 1147 0.35 MO 1730 0.94		29 0557 0.30 1251 0.81 TU 1849 0.50	
6 0530 0.86 1150 0.33 SU 1750 0.90		14 0439 0.25 1132 0.80 MO 1643 0.56 2217 0.84		22 0015 0.22 0617 0.97 TU 1231 0.38 1809 0.96		30 0016 0.76 0712 0.31 WE 1353 0.82 2021 0.45	
7 0018 0.33 0611 0.87 MO 1222 0.36 1817 0.91		15 0539 0.25 1244 0.79 TU 1756 0.57 2330 0.81		23 0100 0.20 0709 0.96 WE 1315 0.41 1849 0.97			
8 0049 0.31 0648 0.87 TU 1252 0.39 1843 0.92		16 0649 0.25 1350 0.81 WE 1919 0.53		24 0145 0.20 0801 0.94 TH 1356 0.44 ● 1930 0.96			

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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

OCTOBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0147 0.76 0828 0.32 TH 1446 0.82 2120 0.40		9 0121 0.25 0743 0.90 FR 1332 0.46 1901 0.90		17 0213 0.85 0840 0.35 SA 1437 0.84 ● 2113 0.29		25 0243 0.24 0924 0.90 SU 1509 0.46 2045 0.85	
2 0258 0.79 0929 0.32 FR 1530 0.83 ○ 2203 0.35		10 0156 0.25 0821 0.88 SA 1404 0.48 ● 1934 0.88		18 0326 0.91 0949 0.38 SU 1525 0.87 2211 0.22		26 0326 0.27 1011 0.86 MO 1559 0.47 2142 0.80	
3 0352 0.82 1017 0.34 SA 1607 0.84 2239 0.31		11 0232 0.25 0902 0.86 SU 1441 0.50 2011 0.87		19 0425 0.96 1045 0.40 MO 1609 0.90 2301 0.18		27 0413 0.31 1100 0.84 TU 1702 0.47 2250 0.75	
4 0438 0.86 1057 0.36 SU 1639 0.85 2310 0.28		12 0311 0.25 0949 0.83 MO 1524 0.51 2056 0.84		20 0519 0.99 1133 0.42 TU 1652 0.93 2348 0.16		28 0511 0.35 1156 0.82 WE 1830 0.44	
5 0518 0.89 1132 0.38 MO 1706 0.87 2341 0.27		13 0358 0.26 1044 0.81 TU 1619 0.51 2158 0.81		21 0610 1.00 1217 0.43 WE 1735 0.95		29 0015 0.73 0630 0.39 TH 1254 0.80 1943 0.39	
6 0556 0.91 1204 0.40 TU 1733 0.88		14 0456 0.28 1144 0.80 WE 1730 0.49 2317 0.79		22 0033 0.17 0700 0.99 TH 1300 0.44 1820 0.95		30 0142 0.75 0755 0.41 FR 1349 0.80 2038 0.34	
7 0013 0.25 0631 0.92 WE 1234 0.42 1800 0.90		15 0607 0.31 1245 0.81 TH 1851 0.44		23 0117 0.18 0748 0.96 FR 1343 0.45 ● 1906 0.93		31 0247 0.80 0901 0.42 SA 1436 0.80 2120 0.29	
8 0046 0.25 0706 0.92 TH 1303 0.44 1830 0.90		16 0046 0.81 0724 0.33 FR 1344 0.82 2006 0.36		24 0200 0.21 0836 0.93 SA 1425 0.46 1954 0.90			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0341 0.85 0953 0.43 SU 1514 0.81 ○ 2157 0.26		9 0200 0.24 0840 0.89 MO 1429 0.48 1953 0.84		17 0421 0.98 1029 0.48 TU 1526 0.90 2236 0.14		25 0335 0.35 1015 0.86 WE 1644 0.41 2236 0.74	
2 0426 0.90 1034 0.44 MO 1546 0.83 2230 0.23		10 0238 0.25 0920 0.87 TU 1513 0.47 2046 0.82		18 0515 1.00 1117 0.48 WE 1616 0.92 2324 0.15		26 0424 0.40 1059 0.84 TH 1752 0.39 2357 0.73	
3 0506 0.93 1111 0.45 TU 1616 0.85 2305 0.22		11 0322 0.28 1005 0.85 WE 1607 0.45 2155 0.80		19 0603 1.01 1202 0.47 TH 1707 0.93		27 0528 0.46 1145 0.82 FR 1854 0.34	
4 0543 0.95 1145 0.46 WE 1648 0.87 2340 0.22		12 0418 0.32 1055 0.84 TH 1715 0.40 2315 0.79		20 0009 0.16 0648 0.99 FR 1245 0.46 1758 0.92		28 0122 0.76 0700 0.50 SA 1234 0.80 1946 0.30	
5 0618 0.96 1216 0.46 TH 1722 0.88		13 0528 0.38 1149 0.84 FR 1829 0.34		21 0052 0.19 0731 0.97 SA 1329 0.45 1849 0.90		29 0229 0.81 0820 0.52 SU 1322 0.80 2032 0.26	
6 0015 0.22 0653 0.95 FR 1247 0.47 1757 0.88		14 0045 0.82 0648 0.43 SA 1246 0.85 1940 0.27		22 0133 0.22 0814 0.95 SU 1413 0.44 ○ 1941 0.86		30 0324 0.87 0920 0.52 MO 1407 0.80 ○ 2115 0.22	
7 0051 0.23 0727 0.93 SA 1318 0.48 1832 0.88		15 0212 0.87 0810 0.46 SU 1342 0.86 ● 2045 0.21		23 0214 0.26 0854 0.92 MO 1458 0.43 2034 0.82			
8 0126 0.23 0802 0.91 SU 1352 0.49 ● 1910 0.86		16 0322 0.93 0930 0.48 MO 1435 0.88 2144 0.16		24 0254 0.30 0933 0.89 TU 1546 0.43 2130 0.77			

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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

DECEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0411 0.92 TU 1449 0.82 2155 0.20		9 0215 0.27 0855 0.90 WE 1508 0.41 2051 0.81		17 0507 0.98 1102 0.51 TH 1550 0.89 2304 0.15		25 0344 0.42 1007 0.86 FR 1700 0.33 2319 0.74	
2 0453 0.95 1047 0.51 WE 1530 0.84 2234 0.19		10 0258 0.31 0933 0.89 TH 1600 0.37 2157 0.80		18 0552 0.98 1149 0.47 FR 1649 0.89 2348 0.17		26 0431 0.48 1046 0.84 SA 1755 0.30	
3 0531 0.97 1124 0.50 TH 1611 0.85 2314 0.19		11 0350 0.37 1016 0.89 FR 1700 0.32 2312 0.80		19 0632 0.97 1233 0.45 SA 1745 0.88		27 0044 0.76 0535 0.54 SU 1130 0.82 1850 0.27	
4 0608 0.97 1200 0.49 FR 1651 0.86 2351 0.20		12 0455 0.44 1105 0.88 SA 1807 0.27		20 0030 0.20 0711 0.96 SU 1317 0.42 1839 0.86		28 0159 0.80 0709 0.58 MO 1220 0.80 1944 0.24	
5 0642 0.96 1233 0.49 SA 1732 0.86		13 0043 0.83 0612 0.51 SU 1200 0.88 1915 0.21		21 0110 0.23 0747 0.94 MO 1400 0.40 1930 0.83		29 0259 0.85 0832 0.58 TU 1311 0.80 2034 0.21	
6 0028 0.21 0715 0.94 SU 1308 0.48 1815 0.86		14 0206 0.88 0736 0.54 MO 1257 0.88 2019 0.17		22 0148 0.27 0823 0.92 TU 1443 0.39 ● 2020 0.80		30 0350 0.89 0933 0.57 WE 1402 0.80 ○ 2122 0.19	
7 0103 0.22 0746 0.93 MO 1345 0.47 1900 0.84		15 0316 0.93 0904 0.55 TU 1355 0.88 ● 2120 0.14		23 0225 0.31 0857 0.90 WE 1526 0.37 2113 0.76		31 0435 0.92 1021 0.54 TH 1452 0.81 2209 0.17	
8 0138 0.24 0819 0.91 TU 1424 0.44 ● 1952 0.83		16 0415 0.96 1011 0.53 WE 1452 0.89 2215 0.14		24 0302 0.36 0931 0.89 TH 1611 0.35 2210 0.74			

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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 - 2018)	2.16
0.88	Highest Astronomical Tide (HAT)	1.83
0.56	Mean High Water Springs (MHWS)	1.51
0.31	Mean High Water Neaps (MHWN)	1.26
0.000	Australian Height Datum	0.950
-0.32	Mean Low Water Neaps (MLWN)	0.63
-0.58	Mean Low Water Springs (MLWS)	0.37
-0.95	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.35	Lowest recorded tide 27/10/1972 (1962 – 2018)	-0.40

Port Phillip

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0406 1.61 WE 0948 0.54 1553 1.36 2149 0.35		9 0315 0.90 0929 1.24 TH 1540 0.40 2313 1.41		17 0437 1.65 1025 0.35 FR 1651 1.48 ● 2233 0.35		25 0016 1.50 0537 0.79 SA 1145 1.29 ● 1758 0.29	
2 0438 1.57 1026 0.52 TH 1633 1.33 2225 0.42		10 0431 0.90 1032 1.25 FR 1645 0.34		18 0516 1.60 1112 0.30 SA 1748 1.46 2320 0.45		26 0111 1.54 0638 0.72 SU 1241 1.32 1849 0.28	
3 0509 1.52 1102 0.51 FR 1715 1.29 ● 2300 0.50		11 0010 1.49 0538 0.85 SA 1138 1.28 ○ 1743 0.28		19 0558 1.55 1159 0.27 SU 1853 1.43		27 0157 1.58 0730 0.65 MO 1331 1.34 1936 0.28	
4 0541 1.47 1139 0.49 SA 1802 1.27 2339 0.59		12 0101 1.58 0632 0.78 SU 1238 1.33 1835 0.22		20 0008 0.56 0642 1.48 MO 1248 0.27 2001 1.41		28 0236 1.59 0814 0.58 TU 1416 1.37 2017 0.30	
5 0615 1.41 1216 0.48 SU 1856 1.25		13 0149 1.64 0721 0.69 MO 1331 1.39 1924 0.19		21 0059 0.67 0732 1.41 TU 1342 0.29 2108 1.41		29 0310 1.59 0854 0.52 WE 1458 1.38 2056 0.33	
6 0020 0.68 0653 1.36 MO 1258 0.47 1958 1.25		14 0234 1.68 0807 0.60 TU 1422 1.44 2012 0.18		22 0158 0.77 0830 1.35 WE 1444 0.31 2213 1.42		30 0340 1.57 0930 0.48 TH 1537 1.39 2130 0.38	
7 0108 0.78 0738 1.31 TU 1344 0.46 2103 1.28		15 0317 1.70 0853 0.51 WE 1511 1.48 2059 0.21		23 0307 0.82 0935 1.30 TH 1552 0.32 2316 1.45		31 0408 1.55 1005 0.44 FR 1615 1.38 2204 0.43	
8 0205 0.86 0830 1.27 WE 1437 0.44 2210 1.33		16 0358 1.68 0939 0.42 TH 1600 1.49 2146 0.27		24 0425 0.83 1042 1.28 FR 1700 0.31			

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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

FEBRUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0436 1.53 1037 0.41 SA 1653 1.37 2239 0.50		9 0449 0.86 1105 1.25 SU 1705 0.31 ○		17 0534 1.55 1140 0.17 MO 1840 1.51 2351 0.57		25 0132 1.47 0714 0.62 TU 1320 1.33 1921 0.38	
2 0506 1.49 1110 0.39 SU 1734 1.36 ●		10 0034 1.50 0559 0.76 MO 1216 1.32 1812 0.26		18 0617 1.48 1226 0.22 TU 1939 1.45		26 0208 1.50 0756 0.54 WE 1406 1.38 2002 0.39	
3 0538 1.44 1143 0.38 MO 1819 1.34 2352 0.65		11 0126 1.57 0656 0.64 TU 1317 1.41 1909 0.23		19 0038 0.66 0705 1.40 WE 1314 0.28 2040 1.39		27 0239 1.52 0832 0.47 TH 1445 1.43 2038 0.41	
4 0614 1.39 1216 0.38 TU 1912 1.32		12 0213 1.63 0747 0.51 WE 1413 1.50 2001 0.23		20 0130 0.75 0801 1.32 TH 1410 0.35 2144 1.36		28 0307 1.53 0905 0.41 FR 1521 1.46 2112 0.44	
5 0032 0.73 0653 1.33 WE 1255 0.38 2011 1.31		13 0256 1.66 0837 0.38 TH 1505 1.57 2050 0.26		21 0233 0.81 0907 1.25 FR 1519 0.40 2248 1.36		29 0335 1.53 0937 0.37 SA 1556 1.48 2145 0.47	
6 0120 0.82 0740 1.28 TH 1342 0.38 2116 1.32		14 0336 1.67 0924 0.27 FR 1557 1.60 2137 0.31		22 0353 0.83 1018 1.22 SA 1632 0.42 2351 1.39			
7 0219 0.88 0837 1.24 FR 1440 0.37 2228 1.35		15 0415 1.65 1011 0.20 SA 1649 1.59 2223 0.39		23 0514 0.78 1127 1.23 SU 1739 0.41			
8 0332 0.90 0947 1.22 SA 1552 0.35 2335 1.42		16 0454 1.61 1056 0.17 SU 1744 1.56 ● 2307 0.47		24 0047 1.43 0622 0.71 MO 1228 1.27 ● 1834 0.39			

Port Phillip

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PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2020

Time	m	Time	m	Time	m	Time	m
1 0404 1.51 SU 1008 0.34 1631 1.48 2218 0.52		9 0407 0.81 1045 1.27 MO 1631 0.40		17 0510 1.53 1116 0.17 TU 1820 1.57 2331 0.59		25 0054 1.40 0646 0.59 WE 1309 1.37 1902 0.53	
2 0434 1.49 1038 0.32 MO 1709 1.47 2252 0.58		10 0000 1.44 0525 0.69 TU 1201 1.37 ○ 1750 0.37		18 0553 1.46 1200 0.25 WE 1913 1.48		26 0130 1.44 0726 0.50 TH 1352 1.45 1942 0.53	
3 0507 1.45 1108 0.32 TU 1750 1.45 ● 2327 0.64		11 0055 1.52 0630 0.54 WE 1306 1.49 1855 0.35		19 0015 0.67 0641 1.37 TH 1245 0.34 2010 1.40		27 0200 1.47 0800 0.43 FR 1429 1.52 2016 0.53	
4 0541 1.40 1140 0.32 WE 1836 1.41		12 0144 1.58 0725 0.39 TH 1404 1.61 1948 0.35		20 0104 0.74 0738 1.29 FR 1336 0.44 2110 1.34		28 0230 1.49 0832 0.37 SA 1502 1.57 2050 0.54	
5 0003 0.71 0617 1.34 TH 1215 0.33 1930 1.37		13 0228 1.63 0815 0.26 FR 1458 1.69 2037 0.37		21 0204 0.79 0845 1.22 SA 1441 0.52 2214 1.32		29 0300 1.50 0904 0.34 SU 1536 1.60 2123 0.56	
6 0045 0.78 0702 1.29 FR 1300 0.35 2033 1.34		14 0309 1.64 0902 0.16 SA 1549 1.72 2123 0.41		22 0325 0.81 1001 1.19 SU 1600 0.56 2315 1.32		30 0332 1.50 0935 0.32 MO 1610 1.61 2157 0.59	
7 0138 0.83 0801 1.25 SA 1357 0.38 2145 1.34		15 0349 1.63 0948 0.12 SU 1639 1.71 2207 0.46		23 0450 0.77 1114 1.22 MO 1714 0.57		31 0405 1.47 1005 0.31 TU 1646 1.59 2230 0.63	
8 0246 0.85 0917 1.23 SU 1510 0.40 2258 1.37		16 0429 1.59 1032 0.12 MO 1729 1.65 ● 2249 0.52		24 0010 1.36 0558 0.68 TU 1216 1.28 ● 1815 0.55			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0438 1.44 1036 0.32 WE 1726 1.55 ☉ 2304 0.67		9 0018 1.50 0601 0.44 TH 1256 1.61 1836 0.53		17 0618 1.36 1215 0.45 FR 1937 1.44		25 0117 1.44 0722 0.42 SA 1406 1.62 1950 0.69	
2 0513 1.40 1107 0.33 TH 1809 1.50 2340 0.72		10 0109 1.56 0657 0.30 FR 1353 1.73 1930 0.52		18 0043 0.74 0716 1.28 SA 1303 0.55 2032 1.37		26 0152 1.47 0756 0.38 SU 1440 1.67 2025 0.68	
3 0551 1.35 1144 0.35 FR 1900 1.44		11 0155 1.60 0747 0.19 SA 1445 1.81 2018 0.53		19 0140 0.78 0829 1.22 SU 1400 0.64 2130 1.33		27 0227 1.49 0829 0.35 MO 1515 1.70 2059 0.68	
4 0019 0.76 0639 1.31 SA 1229 0.39 1959 1.39		12 0239 1.62 0836 0.14 SU 1535 1.83 2103 0.54		20 0257 0.78 0945 1.21 MO 1514 0.71 2227 1.32		28 0302 1.49 0901 0.34 TU 1550 1.70 2133 0.68	
5 0110 0.79 0742 1.27 SU 1326 0.45 2107 1.37		13 0321 1.61 0922 0.13 MO 1623 1.79 2147 0.56		21 0418 0.74 1058 1.26 TU 1636 0.74 2319 1.33		29 0338 1.47 0933 0.34 WE 1627 1.68 2208 0.70	
6 0216 0.78 0903 1.27 MO 1440 0.51 2217 1.38		14 0402 1.57 1007 0.17 TU 1709 1.72 2230 0.60		22 0521 0.66 1200 1.34 WE 1744 0.73		30 0414 1.44 1006 0.35 TH 1706 1.64 2243 0.72	
7 0336 0.72 1033 1.34 TU 1604 0.55 2322 1.43		15 0445 1.51 1050 0.25 WE 1756 1.63 ☉ 2312 0.64		23 0004 1.36 0608 0.57 TH 1249 1.44 ☉ 1834 0.72			
8 0455 0.59 1150 1.46 WE 1729 0.55 ☉		16 0530 1.44 1133 0.34 TH 1845 1.53 2355 0.69		24 0043 1.40 0646 0.49 FR 1330 1.54 1915 0.70			

Port Phillip

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PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2020

Time	m	Time	m	Time	m	Time	m
1 0452 1.41 FR 1041 0.38 1748 1.58 2319 0.74		9 0032 1.54 0629 0.26 SA 1338 1.81 1908 0.70		17 0023 0.74 0656 1.29 SU 1231 0.65 1947 1.44		25 0115 1.45 0718 0.39 MO 1416 1.73 1957 0.80	
2 0534 1.38 1121 0.42 SA 1836 1.52		10 0123 1.58 0720 0.20 SU 1430 1.87 1957 0.68		18 0116 0.75 0808 1.26 MO 1321 0.75 2036 1.38		26 0156 1.47 0755 0.37 TU 1454 1.76 2033 0.78	
3 0001 0.75 0628 1.34 SU 1209 0.48 1930 1.47		11 0209 1.59 0809 0.19 MO 1517 1.87 2043 0.67		19 0220 0.75 0922 1.27 TU 1422 0.83 2126 1.35		27 0236 1.48 0830 0.36 WE 1532 1.75 2110 0.76	
4 0052 0.74 0735 1.33 MO 1307 0.57 2031 1.44		12 0254 1.58 0856 0.21 TU 1603 1.82 2127 0.67		20 0330 0.71 1030 1.32 WE 1539 0.89 2215 1.35		28 0315 1.48 0906 0.37 TH 1611 1.73 2146 0.75	
5 0157 0.70 0900 1.35 TU 1418 0.66 2137 1.43		13 0338 1.55 0942 0.28 WE 1647 1.75 2209 0.67		21 0432 0.64 1129 1.40 TH 1656 0.90 2304 1.36		29 0355 1.46 0943 0.39 FR 1650 1.69 2225 0.74	
6 0313 0.62 1025 1.44 WE 1541 0.72 2240 1.46		14 0421 1.50 1025 0.36 TH 1731 1.67 2252 0.69		22 0522 0.57 1218 1.50 FR 1755 0.89 2350 1.38		30 0437 1.44 1023 0.43 SA 1731 1.64 2305 0.72	
7 0428 0.49 1138 1.57 TH 1703 0.73 2339 1.50		15 0507 1.43 1107 0.45 FR 1815 1.58 2336 0.71		23 0603 0.50 1300 1.60 SA 1840 0.86		31 0526 1.42 1107 0.49 SU 1815 1.59 2351 0.69	
8 0533 0.37 1242 1.71 FR 1813 0.72		16 0557 1.36 1148 0.55 SA 1900 1.50		24 0033 1.42 0642 0.44 SU 1339 1.68 1919 0.83			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0623 1.40 1158 0.58 MO 1904 1.54		9 0144 1.56 0746 0.26 TU 1459 1.84 2022 0.75		17 0135 0.68 0842 1.32 WE 1336 0.89 2019 1.40		25 0214 1.48 0804 0.36 TH 1515 1.76 2047 0.77	
2 0043 0.65 0735 1.40 TU 1256 0.68 1959 1.51		10 0230 1.55 0833 0.30 WE 1544 1.80 2107 0.72		18 0230 0.65 0945 1.36 TH 1438 0.96 2108 1.37		26 0258 1.49 0845 0.37 FR 1556 1.74 2129 0.72	
3 0144 0.59 0858 1.44 WE 1402 0.78 2058 1.48		11 0315 1.52 0918 0.36 TH 1625 1.74 2152 0.71		19 0329 0.61 1044 1.42 FR 1550 1.00 2200 1.36		27 0343 1.49 0929 0.40 SA 1634 1.71 2212 0.66	
4 0252 0.51 1014 1.53 TH 1517 0.85 2200 1.48		12 0400 1.48 1000 0.44 FR 1704 1.68 2235 0.70		20 0426 0.56 1137 1.51 SA 1701 1.00 2255 1.37		28 0430 1.49 1014 0.46 SU 1714 1.68 2257 0.61	
5 0402 0.43 1122 1.64 FR 1636 0.88 2300 1.50		13 0446 1.42 1042 0.52 SA 1743 1.61 2318 0.70		21 0516 0.50 1225 1.59 SU 1758 0.96 2349 1.39		29 0521 1.47 1101 0.54 MO 1754 1.63 2344 0.56	
6 0507 0.34 1224 1.74 SA 1746 0.86 2359 1.52		14 0534 1.37 1120 0.61 SU 1819 1.55		22 0601 0.44 1310 1.66 MO 1844 0.92		30 0622 1.46 1151 0.64 TU 1838 1.58	
7 0604 0.28 1320 1.81 SU 1844 0.82		15 0001 0.70 0630 1.32 MO 1200 0.70 1857 1.49		23 0040 1.43 0644 0.40 TU 1352 1.72 1926 0.87			
8 0053 1.55 0657 0.25 MO 1411 1.84 1934 0.78		16 0046 0.69 0735 1.30 TU 1245 0.80 1935 1.44		24 0128 1.46 0724 0.37 WE 1434 1.75 2007 0.82			

Port Phillip

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0034 0.51 0735 1.47 WE 1245 0.75 1928 1.54		9 0213 1.50 0815 0.36 TH 1522 1.73 2052 0.71		17 0133 0.57 0848 1.37 FR 1347 0.95 2009 1.38		25 0246 1.53 0831 0.35 SA 1535 1.73 2113 0.58	
2 0130 0.47 0849 1.50 TH 1345 0.85 2023 1.50		10 0259 1.49 0859 0.41 FR 1600 1.70 2136 0.67		18 0223 0.55 0949 1.40 SA 1449 1.01 2102 1.35		26 0335 1.55 0918 0.40 SU 1614 1.71 2159 0.50	
3 0230 0.43 0958 1.55 FR 1453 0.92 2124 1.47		11 0343 1.46 0939 0.47 SA 1633 1.66 2217 0.64		19 0320 0.53 1050 1.46 SU 1600 1.02 2203 1.34		27 0425 1.56 1006 0.47 MO 1652 1.68 2245 0.43	
4 0338 0.39 1103 1.61 SA 1608 0.94 2229 1.46		12 0426 1.43 1016 0.54 SU 1704 1.61 2256 0.62		20 0422 0.48 1147 1.52 MO 1709 0.99 2308 1.35		28 0519 1.55 1053 0.55 TU 1730 1.63 2331 0.39	
5 0445 0.36 1205 1.67 SU 1720 0.92 2331 1.47		13 0510 1.40 1053 0.62 MO 1735 1.56 2332 0.60		21 0520 0.43 1240 1.59 TU 1807 0.93		29 0620 1.53 1141 0.65 WE 1813 1.58	
6 0545 0.33 1301 1.72 MO 1822 0.87		14 0558 1.37 1131 0.70 TU 1806 1.51		22 0010 1.39 0611 0.38 WE 1329 1.65 1856 0.85		30 0018 0.37 0726 1.51 TH 1230 0.75 1900 1.52	
7 0030 1.49 0639 0.31 TU 1353 1.75 1915 0.81		15 0010 0.59 0650 1.35 WE 1212 0.79 1842 1.47		23 0105 1.44 0659 0.35 TH 1414 1.70 1942 0.76		31 0110 0.37 0832 1.50 FR 1324 0.84 1954 1.47	
8 0123 1.50 0729 0.33 WE 1440 1.75 2005 0.75		16 0049 0.58 0748 1.35 TH 1257 0.87 1922 1.42		24 0157 1.49 0745 0.34 FR 1456 1.73 2027 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

AUGUST - 2020

Time	m	Time	m	Time	m	Time	m
1 0207 0.39 0938 1.50 SA 1427 0.91 2057 1.42		9 0326 1.47 0916 0.48 SU 1557 1.61 2151 0.53		17 0222 0.48 1003 1.39 MO 1505 0.98 2121 1.29		25 0419 1.65 0954 0.47 TU 1626 1.65 2225 0.25	
2 0315 0.40 1043 1.52 SU 1542 0.93 2205 1.39		10 0405 1.46 0952 0.54 MO 1624 1.58 2225 0.50		18 0329 0.46 1109 1.43 TU 1619 0.95 2235 1.30		26 0512 1.62 1040 0.55 WE 1705 1.60 ● 2311 0.25	
3 0426 0.40 1145 1.55 MO 1659 0.90 2313 1.39		11 0444 1.45 1027 0.60 TU 1653 1.54 2258 0.48		19 0439 0.43 1208 1.50 WE 1729 0.87 ● 2346 1.36		27 0608 1.57 1125 0.63 TH 1747 1.54 2357 0.27	
4 0530 0.38 1243 1.59 TU 1805 0.84 ○		12 0524 1.43 1102 0.67 WE 1724 1.50 ● 2331 0.47		20 0543 0.38 1300 1.57 TH 1827 0.75		28 0708 1.51 1211 0.71 FR 1834 1.47	
5 0015 1.41 0625 0.37 WE 1334 1.63 1902 0.76		13 0607 1.41 1141 0.74 TH 1759 1.45		21 0049 1.44 0639 0.35 FR 1346 1.63 1917 0.62		29 0046 0.33 0810 1.46 SA 1301 0.79 1930 1.40	
6 0110 1.43 0715 0.37 TH 1418 1.65 1952 0.69		14 0006 0.47 0658 1.39 FR 1220 0.81 1836 1.40		22 0145 1.53 0730 0.34 SA 1429 1.67 2005 0.50		30 0142 0.39 0914 1.42 SU 1401 0.85 2037 1.33	
7 0200 1.45 0800 0.39 FR 1456 1.65 2036 0.62		15 0045 0.48 0753 1.37 SA 1304 0.89 1921 1.35		23 0237 1.60 0820 0.36 SU 1509 1.69 2052 0.38		31 0250 0.44 1019 1.41 MO 1519 0.87 2150 1.30	
8 0245 1.47 0840 0.43 SA 1528 1.63 2115 0.57		16 0128 0.48 0856 1.37 SU 1359 0.95 2015 1.31		24 0329 1.64 0907 0.41 MO 1547 1.68 2139 0.30			

Port Phillip

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Datum is Lowest Astronomical Tide

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0406 0.47 1122 1.43 TU 1643 0.83 2301 1.31		9 0416 1.53 1002 0.58 WE 1616 1.50 2221 0.38		17 0403 0.47 1131 1.42 TH 1654 0.74 ● 2332 1.37		25 0548 1.61 1105 0.60 FR 1724 1.48 2332 0.25	
2 0515 0.46 1220 1.47 WE 1753 0.75 ○		10 0452 1.51 1036 0.63 TH 1648 1.47 ● 2253 0.38		18 0519 0.44 1225 1.50 FR 1758 0.59		26 0644 1.51 1150 0.67 SA 1814 1.40	
3 0005 1.35 0612 0.44 TH 1308 1.51 1848 0.66		11 0532 1.47 1112 0.69 FR 1722 1.42 2326 0.39		19 0037 1.50 0623 0.41 SA 1313 1.56 1851 0.44		27 0020 0.35 0744 1.42 SU 1240 0.73 1913 1.32	
4 0101 1.40 0700 0.43 FR 1348 1.54 1932 0.58		12 0617 1.43 1148 0.75 SA 1800 1.36		20 0135 1.62 0716 0.40 SU 1357 1.61 1940 0.30		28 0115 0.44 0845 1.36 MO 1340 0.78 2025 1.25	
5 0150 1.45 0743 0.44 SA 1421 1.55 2010 0.51		13 0000 0.41 0710 1.38 SU 1228 0.81 1844 1.31		21 0228 1.71 0805 0.41 MO 1438 1.63 2028 0.20		29 0221 0.52 0949 1.33 TU 1500 0.79 2144 1.23	
6 0231 1.49 0820 0.46 SU 1450 1.55 2045 0.45		14 0043 0.43 0811 1.35 MO 1316 0.87 1940 1.27		22 0318 1.75 0852 0.44 TU 1518 1.63 2115 0.14		30 0340 0.57 1050 1.34 WE 1627 0.74 2256 1.26	
7 0308 1.52 0855 0.49 MO 1518 1.54 2117 0.41		15 0136 0.46 0919 1.34 TU 1420 0.89 2052 1.25		23 0407 1.74 0937 0.49 WE 1559 1.60 2200 0.14			
8 0343 1.53 0928 0.53 TU 1546 1.53 2149 0.39		16 0245 0.47 1029 1.37 WE 1537 0.85 2215 1.28		24 0457 1.69 1021 0.54 TH 1640 1.55 ● 2246 0.18			

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

OCTOBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0454 0.57 1145 1.37 TH 1734 0.65		9 0426 1.59 1012 0.61 FR 1618 1.42 2216 0.33		17 0456 0.56 1145 1.44 SA 1728 0.42 ●		25 0617 1.52 1131 0.62 SU 1755 1.35 2354 0.40	
2 0000 1.33 0555 0.55 FR 1232 1.40 ○ 1824 0.56		10 0504 1.54 1045 0.66 SA 1653 1.38 ● 2247 0.35		18 0026 1.58 0604 0.53 SU 1236 1.50 1822 0.27		26 0713 1.42 1221 0.67 MO 1858 1.26	
3 0053 1.41 0643 0.53 SA 1310 1.43 1902 0.47		11 0546 1.48 1120 0.70 SU 1731 1.33 2323 0.38		19 0123 1.71 0700 0.51 MO 1324 1.55 1913 0.15		27 0045 0.51 0811 1.35 TU 1321 0.70 2015 1.21	
4 0137 1.49 0723 0.53 SU 1342 1.46 1937 0.40		12 0635 1.41 1159 0.74 MO 1817 1.28		20 0215 1.80 0748 0.50 TU 1408 1.58 2001 0.09		28 0145 0.61 0909 1.30 WE 1439 0.70 2134 1.21	
5 0214 1.55 0759 0.53 MO 1412 1.48 2010 0.35		13 0006 0.42 0731 1.36 TU 1245 0.77 1918 1.24		21 0304 1.83 0834 0.51 WE 1451 1.58 2049 0.08		29 0300 0.68 1006 1.29 TH 1559 0.65 2245 1.26	
6 0246 1.60 0831 0.54 TU 1442 1.48 2042 0.32		14 0100 0.47 0837 1.33 WE 1346 0.76 2036 1.24		22 0351 1.80 0918 0.52 TH 1534 1.56 2136 0.11		30 0420 0.70 1059 1.29 FR 1701 0.57 2346 1.35	
7 0318 1.62 0904 0.55 WE 1513 1.48 2114 0.31		15 0211 0.53 0945 1.34 TH 1502 0.70 2203 1.30		23 0438 1.73 1002 0.55 FR 1617 1.50 ● 2222 0.19		31 0528 0.69 1145 1.32 SA 1748 0.48	
8 0351 1.61 0938 0.58 TH 1545 1.46 2145 0.31		16 0332 0.56 1049 1.38 FR 1620 0.58 2320 1.43		24 0527 1.63 1046 0.58 SA 1703 1.43 2308 0.29			

Port Phillip

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

NOVEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0036 1.45 SU 0618 0.67 ○ 1224 1.35 ○ 1827 0.40		9 0523 1.53 MO 1059 0.66 1712 1.31 2255 0.37		17 0107 1.76 0639 0.64 TU 1251 1.49 1848 0.09		25 0015 0.55 0727 1.38 WE 1300 0.61 1958 1.20	
2 0116 1.54 0659 0.64 MO 1300 1.38 1902 0.34		10 0608 1.46 1137 0.66 TU 1802 1.27 2341 0.44		18 0200 1.83 0729 0.60 WE 1341 1.52 1938 0.06		26 0106 0.66 0816 1.32 TH 1402 0.61 2112 1.21	
3 0151 1.61 0734 0.62 TU 1333 1.41 1936 0.29		11 0659 1.41 1224 0.65 WE 1906 1.25		19 0248 1.84 0815 0.57 TH 1428 1.53 2027 0.08		27 0208 0.75 0907 1.27 FR 1510 0.57 2218 1.27	
4 0223 1.66 0808 0.61 WE 1408 1.43 2009 0.27		12 0036 0.52 0757 1.36 TH 1323 0.62 2027 1.27		20 0335 1.80 0900 0.56 FR 1513 1.51 2115 0.14		28 0323 0.81 0958 1.25 SA 1612 0.52 2317 1.35	
5 0256 1.68 0842 0.60 TH 1443 1.43 2042 0.27		13 0145 0.61 0900 1.35 FR 1434 0.54 2152 1.36		21 0420 1.73 0945 0.55 SA 1559 1.46 2200 0.23		29 0441 0.82 1046 1.26 SU 1703 0.45	
6 0330 1.67 0915 0.60 FR 1518 1.42 2114 0.28		14 0305 0.68 1002 1.36 SA 1549 0.43 2307 1.49		22 0505 1.64 1030 0.56 SU 1646 1.39 ○ 2245 0.33		30 0007 1.45 0542 0.80 MO 1132 1.28 ○ 1747 0.38	
7 0405 1.64 0949 0.62 SA 1554 1.39 2145 0.30		15 0430 0.70 1103 1.40 SU 1657 0.29 ●		23 0551 1.54 1116 0.57 MO 1739 1.32 2330 0.44			
8 0443 1.59 1023 0.64 SU 1631 1.35 ● 2217 0.33		16 0011 1.64 0542 0.67 MO 1200 1.45 1756 0.17		24 0638 1.45 1205 0.59 TU 1842 1.24			

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

PORT PHILLIP HEADS (PT.LONSDALE)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0048 1.53 0628 0.76 TU 1216 1.31 1828 0.32		9 0545 1.52 1125 0.55 WE 1754 1.31 2328 0.47		17 0144 1.76 0711 0.67 TH 1318 1.46 1922 0.11		25 0030 0.67 0715 1.35 FR 1316 0.50 2029 1.23	
2 0125 1.61 0707 0.72 WE 1258 1.35 1905 0.28		10 0630 1.46 1212 0.51 TH 1859 1.31		18 0233 1.77 0800 0.61 FR 1409 1.47 2011 0.13		26 0120 0.77 0757 1.29 SA 1408 0.49 2131 1.26	
3 0200 1.66 0743 0.69 TH 1339 1.38 1941 0.26		11 0022 0.57 0719 1.41 FR 1306 0.46 2017 1.33		19 0320 1.75 0847 0.57 SA 1458 1.46 2059 0.19		27 0219 0.85 0845 1.25 SU 1506 0.47 2230 1.32	
4 0235 1.68 0819 0.65 FR 1418 1.39 2015 0.25		12 0126 0.68 0815 1.38 SA 1409 0.39 2137 1.41		20 0403 1.70 0934 0.53 SU 1545 1.43 2144 0.27		28 0331 0.90 0939 1.23 MO 1607 0.44 2326 1.39	
5 0312 1.68 0855 0.63 SA 1458 1.39 2048 0.26		13 0238 0.77 0917 1.36 SU 1519 0.32 2248 1.51		21 0445 1.63 1019 0.51 MO 1632 1.38 2226 0.36		29 0446 0.89 1036 1.23 TU 1702 0.39	
6 0349 1.66 0930 0.62 SU 1537 1.38 2122 0.28		14 0359 0.80 1021 1.37 MO 1629 0.23 2353 1.62		22 0523 1.56 1103 0.50 TU 1722 1.32 2306 0.46		30 0014 1.47 0548 0.86 WE 1132 1.25 1752 0.33	
7 0427 1.62 1006 0.60 MO 1616 1.35 2159 0.32		15 0515 0.78 1125 1.39 TU 1732 0.16		23 0600 1.49 1147 0.50 WE 1818 1.27 2346 0.56		31 0057 1.54 0636 0.80 TH 1224 1.29 1835 0.29	
8 0505 1.57 1044 0.58 TU 1701 1.33 2240 0.38		16 0051 1.71 0617 0.73 WE 1224 1.43 1830 0.11		24 0637 1.42 1230 0.50 TH 1923 1.23			

Port Phillip

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Datum is Lowest Astronomical Tide

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

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

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

The Rip is the narrow entrance connecting Port Phillip Bay to Bass Strait. It is considered one of the most dangerous sea passages in the world and should only be navigated by experienced mariners. Commercial shipping from Geelong and Melbourne transit The Rip 24 hours a day all year round and require clear passage in and out of the narrow entrance. It is your responsibility to “Keep Clear” of shipping at all times.

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

Tidal Stream Predictions

The Rip Tidal Stream prediction tables provide the following information:

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

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

Point Lonsdale Lighthouse – Tidal Stream Signals and Lights

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

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

Flood Stream Lights

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

Ebb Stream Lights

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

AUSTRALIA, SOUTH COAST – THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

JANUARY - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		
1 WE	0034	0315	4.28		9 TH	0139	0351	-2.35	17 FR	0117	0356	4.26	25 SA	0338	0556	-3.56	
	0707	0942	-4.83			0649	0931	1.60		0729	1009	-5.61		0935	1209	2.44	
	1327	1609	3.19			1145	1453	-4.50		1405	1649	3.65		1413	1722	-4.90	
	1835	2124	-4.95			1928	2229	3.81		1942	2221	-5.20		2129			
2 TH	0107	0351	4.12		10 FR	0246	0503	-2.70	18 SA	0200	0440	4.04	26 SU	0012	0410	4.10	
	0736	1013	-4.85			0822	1049	1.67		0803	1046	-5.79		0426	0648	-3.94	
	1402	1645	3.14			1249	1553	-4.70		1452	1738	3.66		1031	1309	2.77	
	1919	2206	-4.59			2025	2319	4.11		2044	2316	-4.69		1515	1818	-5.06	
													2219				
3 FR	0140	0424	3.91		11 SA	0340	0602	-3.23	19 SU	0243	0525	3.78	27 MO	0100	4.21		
	0803	1043	-4.84			0930	1154	2.03		0839	1124	-5.82		0506	0732	-4.28	
	1438	1722	3.08			1356	1652	-5.03		1542	1829	3.64		1116	1358	3.06	
	2005	2249	-4.19			2119				2150				1610	1906	-5.17	
													2303				
4 SA	0212	0456	3.67		12 SU	0007	4.35	20 MO	0014	-4.14	28 TU	0143	4.26				
	0831	1114	-4.79			0426	0650	-3.71		0328	0611	3.44		0540	0810	-4.57	
	1516	1803	3.03			1022	1250	2.50		0917	1208	-5.69		1156	1439	3.26	
	2056	2336	-3.74			1458	1748	-5.39		1634	1923	3.62		1658	1949	-5.18	
						2211				2302				2342			
5 SU	0247	0530	3.36		13 MO	0055	4.50	21 TU	0119	-3.63	29 WE	0223	4.25				
	0859	1146	-4.72			0507	0734	-4.14		0420	0704	3.03		0610	0844	-4.80	
	1557	1849	3.02			1107	1340	2.92		1001	1256	-5.43		1231	1514	3.39	
	2156					1556	1843	-5.69		1730	2020	3.63		1742	2031	-5.09	
						2300											
6 MO	0029	-3.25		14 TU	0142	4.56	22 WE	0017	0228	-3.24	30 TH	0017	0258	4.17			
	0325	0609	2.96			0545	0815	-4.54		0526	0811	2.55		0637	0915	-4.97	
	0931	1222	-4.61			1150	1429	3.24		1052	1355	-5.12		1304	1547	3.45	
	1643	1942	3.07			1652	1938	-5.85		1830	2121	3.68		1824	2110	-4.92	
	2305					2347											
7 TU	0129	-2.76		15 WE	0028	4.53	23 TH	0132	0342	-3.07	31 FR	0048	0330	4.06			
	0413	0657	2.44			0621	0855	-4.93		0651	0935	2.20		0702	0943	-5.10	
	1007	1304	-4.50			1234	1516	3.45		1154	1502	-4.87		1336	1618	3.49	
	1734	2040	3.24			1747	2032	-5.82		1933	2222	3.80		1905	2148	-4.68	
8 WE	0022	0237	-2.40	16 TH	0033	0313	4.43	24 FR	0240	0454	-3.21						
	0518	0809	1.90			0655	0932	-5.31		0822	1058	2.19					
	1051	1355	-4.45			1319	1604	3.59		1303	1616	-4.79					
	1830	2137	3.50			1843	2126	-5.60		2033	2319	3.96					

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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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate			
1	0119	0401	3.91		9	0306	0523	-2.88		17	0231	0509	3.72		25	0047	3.86	
SA	0726	1009	-5.19		0845	1116	1.86		0811	1100	-6.24		0437	0705	-4.20			
	1408	1650	3.50	SU	1322	1623	-4.82	MO	1520	1802	3.94	TU	1054	1335	3.16			
	1947	2226	-4.40	○	2054	2346	4.08		2140				1606	1857	-4.75			
													2247					
2	0150	0431	3.73		10	0357	0618	-3.55		18		0001	-4.24		26	0130	3.96	
SU	0751	1036	-5.22		0950	1226	2.56		0313	0552	3.40		0509	0741	-4.57			
	1441	1726	3.48	MO	1441	1732	-5.19	TU	0850	1142	-5.89	WE	1131	1412	3.46			
	2032	2309	-4.04	○	2153				1607	1852	3.77		1653	1939	-4.87			
									2241				2326					
3	0222	0501	3.50		11		0039	4.27		19		0057	-3.75		27	0207	3.99	
MO	0817	1103	-5.20		0439	0705	-4.17		0400	0639	2.98		0535	0813	-4.88			
	1517	1804	3.44	TU	1042	1323	3.19	WE	0933	1230	-5.41	TH	1203	1444	3.68			
	2123	2353	-3.63		1550	1836	-5.56		1658	1945	3.58		1735	2019	-4.90			
					2248				2347				2359					
4	0255	0535	3.18		12		0130	4.37		20		0159	-3.29		28	0240	3.96	
TU	0846	1135	-5.12		0516	0749	-4.79		0457	0739	2.46		0600	0842	-5.12			
	1556	1848	3.39	WE	1130	1414	3.64	TH	1024	1328	-4.87	FR	1233	1514	3.82			
	2220				1652	1936	-5.78		1756	2046	3.45		1813	2057	-4.84			
					2338													
5		0044	-3.15		13		0217	4.38		21	0058	0308	-2.95		29	0030	0310	3.88
WE	0334	0612	2.75		0551	0829	-5.39		0615	0903	2.00		0623	0907	-5.31			
	0917	1213	-4.98	TH	1217	1501	3.92	FR	1126	1439	-4.41	SA	1302	1544	3.90			
	1641	1942	3.36		1750	2032	-5.79		1900	2153	3.42		1851	2132	-4.72			
	2327																	
6		0144	-2.66		14	0024	0302	4.31		22	0209	0423	-2.94					
TH	0422	0658	2.20		0625	0907	-5.91		0755	1034	1.94							
	0955	1302	-4.80	FR	1303	1545	4.08	SA	1242	1558	-4.20							
	1735	2044	3.41		1847	2126	-5.58		2008	2259	3.52							
7	0044	0253	-2.30		15	0108	0345	4.17		23	0310	0530	-3.30					
FR	0531	0809	1.63		0659	0943	-6.25		0915	1150	2.27							
	1046	1401	-4.64	SA	1349	1629	4.12	SU	1400	1711	-4.30							
	1839	2148	3.59		1944	2218	-5.21		2110	2357	3.70							
8	0202	0411	-2.36		16	0150	0427	3.98		24	0359	0623	-3.77					
SA	0711	0947	1.45		0734	1021	-6.37		1011	1250	2.75							
	1158	1512	-4.62	SU	1434	1715	4.07	MO	1510	1808	-4.53							
	1948	2249	3.84	○	2041	2309	-4.74	●	2202									

AUSTRALIA, SOUTH COAST – THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

MARCH - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate	
1	0101	0337	3.77		9	0217	0435	-2.97		17	0217	0452	3.57		25	0031 3.48
SU	0647	0931	-5.43			0802	1049	2.14			0744	1034	-6.24			0353 0628 -4.21
	1332	1614	3.94		MO	1308	1605	-4.52		TU	1452	1732	4.12		WE	1021 1302 3.37
	1929	2208	-4.53			2027	2326	3.79			2121	2342	-4.34			1603 1844 -4.28
																2227
2	0131	0406	3.64		10	0311	0538	-3.72		18	0258	0535	3.26		26	0113 3.59
	0712	0956	-5.49			0916	1203	2.97			0825	1119	-5.72			0423 0703 -4.62
MO	1404	1645	3.92		TU	1436	1724	-4.88		WE	1536	1818	3.84		TH	1055 1336 3.75
	2010	2245	-4.27			2135					2213					1648 1927 -4.51
																2305
3	0201	0436	3.46		11	0024 3.98				19	0032 -3.91			27	0149 3.64	
	0739	1024	-5.48			0355 0629 -4.49					0343 0622 2.85				0450 0733 -4.96	
TU	1437	1719	3.84		WE	1014 1301 3.65				TH	0911 1208 -5.09			FR	1126 1406 4.02	
☾	2055	2324	-3.93			1550 1834 -5.27					1622 1909 3.53				1726 2006 -4.64	
						2232					2311				2340	
4	0233	0508	3.20		12	0115 4.10				20	0127 -3.47			28	0220 3.63	
	0808	1056	-5.39			0434 0714 -5.24					0437 0719 2.35				0515 0800 -5.23	
WE	1514	1758	3.71		TH	1105 1349 4.12				FR	1003 1305 -4.45			SA	1156 1436 4.20	
	2144					1654 1935 -5.50					1715 2008 3.25				1802 2042 -4.68	
						2324										
5	0009 -3.51				13	0204 4.13				21	0015 0231 -3.08			29	0012 0248 3.59	
	0307	0542	2.85			0512 0755 -5.92					0551 0839 1.93				0540 0826 -5.42	
TH	0839	1135	-5.21		FR	1153 1434 4.41				SA	1108 1416 -3.89			SU	1225 1507 4.29	
	1556	1846	3.52			1752 2031 -5.52					1820 2121 3.08				1838 2117 -4.65	
	2242															
6	0101 -3.03				14	0011 0248 4.08				22	0123 0345 -2.96			30	0043 0315 3.52	
	0349	0621	2.40			0549 0834 -6.41					0727 1012 1.91				0607 0851 -5.54	
FR	0916	1223	-4.94		SA	1240 1519 4.52				SU	1230 1540 -3.59			MO	1256 1537 4.32	
	1647	1949	3.36			1846 2122 -5.37					1935 2238 3.13				1914 2150 -4.54	
	2351															
7	0204 -2.63				15	0055 0330 3.96				23	0226 0454 -3.25			31	0113 0343 3.42	
	0447	0719	1.87			0626 0913 -6.64					0846 1127 2.33				0636 0918 -5.58	
SA	1009	1326	-4.63		SU	1325 1604 4.50				MO	1357 1657 -3.68			TU	1328 1610 4.27	
	1752	2110	3.37			1938 2209 -5.09					2045 2341 3.31				1951 2225 -4.34	
8	0107 0319 -2.53				16	0137 0411 3.80				24	0316 0547 -3.73					
	0618	0904	1.62			0705 0953 -6.57					0940 1222 2.89					
SU	1131	1443	-4.43		MO	1408 1648 4.35				TU	1509 1757 -3.98					
	1910	2222	3.55			2030 2255 -4.73					2141					

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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

Moan 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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1	0144	0413	3.26												
WE	0705	0949	-5.54												
	1401	1643	4.14												
	2032	2302	-4.07												
2	0215	0445	3.05												
TH	0735	1024	-5.41												
	1438	1721	3.95												
	2117	2343	-3.74												
3	0250	0520	2.77												
FR	0810	1106	-5.17												
	1520	1805	3.69												
	2208														
4		0031	-3.40												
SA	0332	0601	2.43												
	0853	1158	-4.81												
	1610	1902	3.40												
	2307														
5		0128	-3.15												
SU	0431	0707	2.07												
	0959	1306	-4.40												
	1714	2029	3.23												
6	0012	0234	-3.13												
MO	0557	0851	2.09												
	1131	1427	-4.11												
	1834	2153	3.31												
7	0117	0345	-3.51												
TU	0731	1029	2.73												
	1311	1555	-4.14												
	1959	2304	3.50												
8	0214	0450	-4.18												
WE	0844	1138	3.51												
	1440	1719	-4.46												
	2112														
9		0005	3.66												
TH	0303	0545	-4.96												
	0944	1231	4.11												
	1552	1830	-4.82												
	2214														
10		0059	3.76												
FR	0347	0633	-5.71												
	1037	1319	4.53												
	1653	1930	-5.04												
	2306														
11		0148	3.80												
SA	0430	0717	-6.29												
	1126	1405	4.75												
	1747	2022	-5.12												
	2354														
12		0234	3.77												
SU	0511	0800	-6.62												
	1212	1451	4.80												
	1838	2110	-5.06												
13		0038	0316	3.70											
MO	0553	0843	-6.65												
	1256	1535	4.69												
	1925	2153	-4.91												
14		0121	0358	3.56											
TU	0635	0926	-6.39												
	1339	1618	4.48												
	2012	2235	-4.69												
15		0202	0440	3.36											
WE	0719	1011	-5.92												
	1421	1700	4.20												
	2057	2318	-4.42												
16		0244	0523	3.08											
TH	0804	1057	-5.32												
	1502	1744	3.88												
	2143														
17		0005	-4.10												
FR	0330	0610	2.72												
	0852	1148	-4.67												
	1544	1831	3.53												
	2232														
18		0054	-3.74												
SA	0423	0706	2.31												
	0947	1245	-4.02												
	1632	1927	3.15												
	2326														
19		0151	-3.40												
SU	0533	0818	2.02												
	1057	1354	-3.43												
	1732	2041	2.85												
20		0025	0257	-3.24											
MO	0654	0941	2.10												
	1224	1514	-3.05												
	1850	2205	2.78												
21		0123	0403	-3.40											
TU	0804	1051	2.55												
	1352	1635	-3.09												
	2009	2310	2.88												
22		0213	0458	-3.78											
WE	0855	1141	3.11												
	1502	1738	-3.43												
	2111														
23		0002	3.01												
TH	0253	0540	-4.22												
	0936	1219	3.61												
	1554	1826	-3.82												
	2200														
24		0046	3.12												
FR	0326	0615	-4.63												
	1011	1252	4.01												
	1636	1909	-4.13												
	2241														
25		0123	3.20												
SA	0357	0646	-4.98												
	1045	1325	4.30												
	1713	1947	-4.34												
	2318														
26		0156	3.24												
SU	0427	0715	-5.25												
	1117	1358	4.48												
	1748	2024	-4.46												
	2352														
27		0225	3.24												
MO	0458	0743	-5.44												
	1149	1431	4.55												
	1823	2059	-4.49												
28		0025	0254	3.20											
TU	0529	0813	-5.53												
	1222	1504	4.54												
	1859	2133	-4.44												
29		0057	0322	3.13											
WE	0602	0845	-5.54												
	1256	1538	4.45												
	1936	2207	-4.32												
30		0129	0354	3.01											
TH	0635	0921	-5.45												
	1332	1614	4.29												
	2014	2243	-4.15												

AUSTRALIA, SOUTH COAST – THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

MAY - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1	0203	0428	2.86		9	0301	0036 3.39		17	0408	0650 2.44		25	0340	0126 2.82
FR	1410	1653	4.07		SA	1008	0554 -5.95		SU	0934	1224 -3.71		MO	1041	0629 -5.21
	2055	2322	-3.97			1647	1914 -4.59			1549	1844 3.17			1732	2001 -4.20
						2246				2235				2331	
2	0241	1508	2.68		10	0349	0128 3.46		18	0507	0108 -3.83		26	0419	0201 2.90
SA	0755	1049	-4.94		SU	1057	0643 -6.33		MO	1044	0752 2.31		TU	1118	0705 -5.41
	1453	1737	3.79			1737	1337 4.87			1641	1328 -3.15			1808	1400 4.63
	2139					2335	2003 -4.73			2320	1948 2.75			2037	-4.30
3		0006 -3.83			11	0436	0217 3.48		19		0201 -3.68		27	0007	0235 2.93
SU	0328	0600 2.49			MO	1143	0730 -6.46		TU	0611	0901 2.44		WE	0457	0743 -5.50
	1851	1147 -4.52				1824	1423 4.84			1209	1443 -2.71			1155	1437 4.59
	1542	1832 3.47								1751	2109 2.46			1844	2112 -4.34
	2228														
4		0056 -3.78			12	0523	0302 3.44		20	0711	0300 -3.69		28	0042	0308 2.91
MO	0430	0717 2.43			TU	1228	0816 -6.33		WE	1334	1002 2.83		TH	0535	0822 -5.48
	1008	1258 -4.08				1908	1507 4.70			1918	1601 -2.63			1232	1515 4.49
	1643	1948 3.20									2327			1921	2148 -4.34
	2322														
5		0154 -3.88			13	0610	0346 3.35		21	0803	0354 -3.90		29	0117	0344 2.88
TU	0548	0849 2.73			WE	1310	0902 -5.98		TH	1442	1052 3.32		FR	0617	0905 -5.33
	1141	1419 -3.77				1950	1549 4.48			2032	1710 -2.93			1311	1554 4.33
	1801	2116 3.12									2317 2.42			1957	2225 -4.33
6	0019	0257 -4.21			14	0657	0346 3.19		22	0846	0441 -4.22		30	0156	0344 2.88
WE	0707	1009 3.33			TH	1349	0949 -5.48		FR	1535	1132 3.78		SA	0702	0952 -5.07
	1319	1548 -3.75				2030	1630 4.22			2128	1802 -3.37			1352	1635 4.11
	1929	2233 3.18												2034	2303 -4.35
7	0116	0402 -4.74			15	0745	0429 3.19		23		0005 2.54		31	0239	0513 2.80
TH	0816	1110 3.93			FR	1428	1037 -4.90		SA	0220	0520 -4.59		SU	0756	1045 -4.71
	2047	1710 -4.02				2111	1712 3.92			0926	1210 4.15			1435	1720 3.85
										1617	1845 -3.75			2112	2343 -4.40
										2214					
8	0210	0500 -5.38			16	0836	0512 2.97		24		0047 2.69				
FR	0915	1202 4.41			SA	1506	1037 -4.90		SU	0301	0555 -4.93				
	1550	1817 -4.35				2152	1755 3.57			1004	1247 4.42				
	2152									1656	1925 -4.02				
										2254					

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Predictions for The Rip computed by Cardno Pty Ltd

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● 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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 MO	0329	0614	2.82												
	0903	1146	-4.28												
	1523	1812	3.55												
	2153														
2 TU		0028	-4.50												
	0429	0725	2.97												
	1022	1256	-3.84												
	1620	1915	3.23												
	2238														
3 WE		0119	-4.64												
	0536	0837	3.29												
	1152	1415	-3.52												
	1732	2034	2.97												
	2330														
4 TH		0217	-4.86												
	0644	0944	3.71												
	1321	1538	-3.45												
	1858	2153	2.85												
5 FR		0026	0320	-5.17											
	0748	1041	4.12												
	1438	1655	-3.66												
	2021	2305	2.87												
6 SA		0124	0422	-5.54											
	0847	1134	4.46												
	1541	1759	-3.96												
	2129														
7 SU		0009	2.98												
	0221	0520	-5.86												
	0941	1224	4.68												
	1635	1853	-4.23												
	2227														
8 MO		0106	3.12												
	0316	0615	-6.05												
	1032	1312	4.76												
	1732	1941	-4.44												
	2317														
9 TU		0159	3.22												
	0409	0707	-6.06												
	1119	1358	4.72												
	1807	2027	-4.58												
10 WE		0004	0248	3.26											
	0500	0756	-5.89												
	1203	1442	4.60												
	1848	2109	-4.66												
11 TH		0049	0333	3.24											
	0550	0844	-5.56												
	1243	1524	4.42												
	1926	2149	-4.68												
12 FR		0132	0416	3.15											
	0639	0930	-5.13												
	1321	1604	4.20												
	2002	2228	-4.64												
13 SA		0215	0457	3.00											
	0728	1017	-4.63												
	1357	1643	3.95												
	2036	2306	-4.54												
14 SU		0258	0540	2.85											
	0819	1105	-4.13												
	1433	1721	3.65												
	2109	2343	-4.42												
15 MO		0342	0626	2.74											
	0916	1158	-3.61												
	1510	1800	3.28												
	2142														
16 TU		0023	-4.29												
	0430	0717	2.72												
	1021	1258	-3.11												
	1554	1847	2.83												
	2217														
17 WE		0105	-4.16												
	0522	0813	2.83												
	1137	1403	-2.65												
	1649	1952	2.36												
	2255														
18 TH		0151	-4.09												
	0615	0910	3.09												
	1256	1514	-2.38												
	1806	2108	2.02												
	2337														
19 FR		0241	-4.12												
	0707	1002	3.45												
	1408	1627	-2.48												
	1934	2215	1.89												
20 SA		0025	0331	-4.28											
	0756	1048	3.81												
	1506	1728	-2.87												
	2045	2314	1.96												
21 SU		0117	0419	-4.54											
	0842	1131	4.12												
	1554	1818	-3.31												
	2140														
22 MO		0007	2.17												
	0208	0505	-4.86												
	0927	1213	4.36												
	1635	1859	-3.67												
	2227														
23 TU		0053	2.42												
	0258	0551	-5.16												
	1011	1254	4.51												
	1714	1937	-3.94												
	2308														
24 WE		0137	2.65												
	0346	0636	-5.39												
	1054	1336	4.57												
	1752	2015	-4.16												
	2347														
25 TH		0218	2.83												
	0433	0723	-5.51												
	1136	1418	4.56												
	1827	2051	-4.36												
26 FR		0025	0300	2.97											
	0521	0810	-5.49												
	1217	1500	4.47												
	1902	2128	-4.55												
27 SA		0105	0344	3.08											
	0612	0900	-5.33												
	1259	1541	4.33												
	1936	2205	-4.74												
28 SU		0148	0430	3.16											
	0707	0952	-5.04												
	1340	1624	4.13												
	2009	2243	-4.93												
29 MO		0234	0523	3.23											
	0807	1047	-4.64												
	1423	1708	3.89												
	2043	2321	-5.10												
30 TU		0324	0617	3.31											
	0915	1146	-4.18												
	1509	1755	3.60												
	2119														

AUSTRALIA, SOUTH COAST – THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

JULY - 2020

Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate	Slack Time	Maximum Time	Rate
1 WE	0003 -5.22 0419 0715 3.43 1031 1252 -3.73 1601 1848 3.24 2201	9 TH	0234 3.21 0447 0743 -5.48 1143 1423 4.44 1825 2048 -4.62	17 FR	0050 -4.52 0518 0817 3.27 1204 1420 -2.40 1655 1943 2.00 2233	25 SA	0005 0250 3.37 0518 0806 -5.59 1206 1448 4.43 1833 2106 -5.00				
2 TH	0050 -5.28 0519 0815 3.61 1152 1406 -3.37 1706 1955 2.85 2250	10 FR	0032 0319 3.27 0537 0829 -5.25 1222 1503 4.33 1858 2126 -4.74	18 SA	0135 -4.43 0611 0912 3.45 1319 1531 -2.20 1813 2102 1.63 2321	26 SU	0049 0337 3.56 0615 0859 -5.43 1249 1530 4.31 1905 2143 -5.38				
3 FR	0145 -5.29 0621 0916 3.83 1313 1523 -3.21 1826 2114 2.57 2345	11 SA	0113 0358 3.26 0625 0913 -4.93 1257 1541 4.17 1929 2200 -4.80	19 SU	0228 -4.43 0706 1006 3.69 1428 1643 -2.37 1945 2217 1.56	27 MO	0135 0424 3.67 0713 0952 -5.11 1331 1612 4.13 1938 2219 -5.65				
4 SA	0246 -5.30 0723 1014 4.07 1426 1639 -3.32 1953 2234 2.50	12 SU	0151 0436 3.22 0712 0956 -4.55 1330 1616 3.97 1957 2232 -4.81	20 MO	0019 0326 -4.53 0802 1057 3.95 1524 1744 -2.84 2059 2324 1.79	28 TU	0222 0511 3.71 0813 1045 -4.66 1413 1654 3.90 2012 2258 -5.79				
5 SU	0048 0352 -5.35 0823 1110 4.28 1528 1742 -3.61 2108 2345 2.64	13 MO	0229 0515 3.17 0800 1041 -4.14 1403 1648 3.73 2024 2304 -4.79	21 TU	0122 0425 -4.77 0855 1145 4.19 1611 1831 -3.35 2154	29 WE	0311 0600 3.72 0918 1142 -4.18 1456 1736 3.60 2048 2338 -5.77				
6 MO	0152 0457 -5.47 0920 1203 4.43 1621 1837 -3.94 2209	14 TU	0307 0554 3.14 0851 1128 -3.72 1437 1720 3.43 2051 2336 -4.72	22 WE	0022 2.22 0225 0523 -5.07 0947 1232 4.37 1651 1910 -3.80 2240	30 TH	0402 0653 3.71 1027 1244 -3.71 1544 1824 3.21 2130				
7 TU	0047 2.85 0254 0558 -5.57 1011 1252 4.51 1707 1924 -4.22 2302	15 WE	0347 0637 3.13 0947 1219 -3.28 1514 1755 3.04 2121	23 TH	0113 2.68 0325 0618 -5.37 1036 1319 4.47 1727 1948 -4.20 2323	31 FR	0025 -5.60 0457 0748 3.70 1140 1350 -3.31 1642 1924 2.76 2219				
8 WE	0144 3.06 0352 0652 -5.59 1059 1339 4.51 1748 2008 -4.45 2349	16 TH	0010 -4.62 0431 0725 3.17 1052 1317 -2.82 1558 1841 2.54 2154	24 FR	0202 3.07 0422 0713 -5.56 1122 1404 4.49 1801 2026 -4.60						

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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

Moan 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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate			
1 SA	0556	0119	-5.34		9 SU	0046	0333	3.53		17 MO	0617	0140	-4.51		25 TU	0714	0400	4.16
	1255	0849	-3.73			0612	0857	-4.84			1339	0925	3.46			0914	0949	-5.12
	1756	1502	-3.04			1236	1519	4.09			1835	1547	-2.16			1320	1558	4.04
	2317	2044	2.36			1849	2127	-5.03			2335	2121	1.44			1904	2152	-6.30
2 SU	0659	0221	-5.07		10 MO	0119	0406	3.56		18 TU	0723	0246	-4.46		26 WE	0202	0446	4.13
	1407	0949	3.81			0655	0937	-4.57			1445	1027	3.69			0811	1038	-4.69
	1927	1617	-3.03			1307	1549	3.93			2011	1659	-2.58			1401	1637	3.81
		2212	2.26			1913	2156	-5.10				2247	1.76			1941	2231	-6.24
3 MO	0025	0333	-4.90		11 TU	0153	0440	3.56		19 WE	0052	0356	-4.61		27 TH	0249	0533	4.01
	0803	1050	3.94			0737	1016	-4.28			0827	1123	3.94			0909	1131	-4.23
	1510	1724	-3.33			1337	1618	3.75			1535	1754	-3.26			1442	1718	3.52
	2050	2329	2.45			1938	2222	-5.13			2117	2356	2.41			2020	2313	-5.97
4 TU	0136	0445	-4.93		12 WE	0226	0514	3.54		20 TH	0209	0504	-4.94		28 FR	0338	0623	3.84
	0903	1147	4.08			0822	1057	-3.95			0927	1215	4.17			1010	1227	-3.79
	1602	1819	-3.74			1408	1646	3.52			1615	1837	-3.90			1527	1803	3.13
	2155					2004	2250	-5.09			2209					2105		
5 WE	0245	0035	2.78		13 TH	0302	0550	3.50		21 FR	0318	0052	3.07		29 SA	0430	0002	-5.54
	0957	0549	-5.06			0911	1141	-3.57			1020	0608	-5.31			1115	0718	3.66
	1646	1238	4.21			1442	1719	3.21			1651	1304	4.32			1621	1328	-3.37
	2247	1906	-4.12			2033	2322	-4.99			2257	1918	-4.51			2157	1902	2.64
6 TH	0346	0131	3.10		14 FR	0341	0632	3.44		22 SA	0421	0144	3.57		30 SU	0527	0058	-5.04
	1044	0643	-5.17			1005	1231	-3.14			1109	0708	-5.56			1226	0818	3.50
	1723	1325	4.28			1519	1754	2.78			1724	1351	4.36			1733	1435	-3.01
	2331	1947	-4.45			2104	2359	-4.85			2343	1959	-5.12			2301	2026	2.22
7 FR	0440	0218	3.33		15 SA	0425	0722	3.37		23 SU	0520	0231	3.90		31 MO	0633	0204	-4.58
	1126	0732	-5.17			1109	1327	-2.66			1155	0804	-5.61			1337	0925	3.45
	1755	1408	4.27			1603	1838	2.23			1757	1435	4.32			1908	1550	-2.93
		2024	-4.71			2142						2037	-5.68				2159	2.15
8 SA	0528	0010	0258	3.46	16 SU	0516	0044	-4.67		24 MO	0617	0029	0315	4.09				
	1203	0528	0815	-5.05		1222	0516	0821	3.36		1238	0617	0857	-5.44				
	1824	1203	1446	4.21		1705	1222	1433	-2.23		1830	1238	1517	4.21				
		2057	-4.90			2229	1705	1946	1.67				2115	-6.10				

The Rip

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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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate			
1	0016	0322	-4.33		9	0113	0358	3.98		17	0042	0338	-4.35		25	0222	0503	4.19
TU	0743	1034	3.53			0714	0954	-4.45			0800	1102	3.66			0851	1114	-4.35
	1442	1700	-3.24	WE		1316	1550	3.66		TH	1443	1709	-3.53		FR	1430	1702	3.36
	2035	2318	2.46			1854	2139	-5.38		●	2042	2333	2.94			1957	2251	-5.80
2	0135	0440	-4.38		10	0144	0429	3.95		18	0207	0454	-4.71		26	0309	0551	3.89
WE	0848	1136	3.71			0754	1030	-4.20			0907	1158	3.90			0945	1205	-3.97
○	1533	1756	-3.73	TH	●	1346	1619	3.48		FR	1526	1758	-4.30		SA	1514	1750	2.98
	2138					1921	2207	-5.33			2139				2046	2343	-5.19	
3	0022	2.89			11	0218	0503	3.86		19	0030	3.62		27	0358	0644	3.57	
TH	0247	0543	-4.59			0837	1109	-3.87			0320	0603	-5.11			1043	1300	-3.57
	0943	1227	3.89	FR		1417	1649	3.22		SA	1004	1249	4.05		SU	1608	1858	2.53
	1614	1841	-4.19			1951	2239	-5.21			1605	1843	-5.06			2144		
	2226										2230							
4	0112	3.29			12	0256	0540	3.70		20	0118	4.11		28	0042	-4.56		
FR	0347	0636	-4.80			0925	1152	-3.47			0423	0705	-5.36			0454	0745	3.27
	1031	1313	4.01	SA		1450	1722	2.87		SU	1055	1336	4.10		MO	1147	1402	-3.21
	1648	1919	-4.58			2023	2317	-5.01			1640	1923	-5.77			1720	2016	2.17
	2305										2318				2254			
5	0151	3.58			13	0337	0624	3.49		21	0202	4.42		29	0152	-4.02		
SA	0437	0722	-4.90			1021	1242	-3.02			0520	0801	-5.43		TU	0601	0858	3.09
	1110	1352	4.03	SU		1529	1800	2.40		MO	1142	1420	4.08			1254	1516	-3.09
	1716	1953	-4.90			2102					1716	2002	-6.32			1854	2149	2.22
	2340																	
6	0226	3.77			14	0004	-4.73			22	0005	0247	4.57		30	0018	0315	-3.75
SU	0520	0803	-4.90			0427	0722	3.29			0615	0852	-5.31			0718	1020	3.13
	1145	1427	3.99	MO		1127	1342	-2.60		TU	1225	1501	3.99		WE	1358	1628	-3.36
	1741	2022	-5.13			1624	1855	1.87			1753	2041	-6.61			2015	2304	2.62
						2154												
7	0012	0257	3.90		15	0105	-4.44			23	0051	0332	4.56					
MO	0600	0842	-4.80			0528	0841	3.23			0707	0940	-5.05					
	1216	1457	3.90	TU		1241	1452	-2.44		WE	1307	1540	3.85					
	1805	2049	-5.28			1747	2042	1.63			1832	2121	-6.60					
						2311												
8	0042	0327	3.97		16	0218	-4.26			24	0137	0417	4.42					
TU	0637	0919	-4.65			0643	0958	3.39			0759	1027	-4.72					
	1246	1523	3.79	WE		1349	1607	-2.81		TH	1348	1620	3.65					
	1828	2114	-5.37			1928	2220	2.12		●	1913	2204	-6.31					

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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)

OCTOBER - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate				
1	0142	0434	-3.84		9	0106	0350	4.28		17	0210	0447	-4.34		25	0239	0521	3.92	
TH	0829	1124	3.32			0730	1008	-4.37		SA	0845	1137	3.52		SU	0915	1139	-4.23	
	1450	1723	-3.84		FR	1328	1555	3.31			1430	1712	-4.84			1506	1746	2.88	
	2111	2359	3.11			1845	2130	-5.42			2109					2033	2326	-4.78	
2	0251	0536	-4.12		10	0140	0423	4.14		18		0001	4.09		26	0324	0610	3.55	
FR	0927	1214	3.50			0809	1043	-4.10		SU	0322	0559	-4.72		MO	1005	1229	-3.92	
	1530	1806	-4.32		SA	1358	1626	3.10			0946	1231	3.67			1600	1846	2.52	
	2155					1917	2204	-5.25			2202	1514	1800	-5.61			2135		
3		0041	3.54		11	0217	0459	3.93		19		0048	4.54		27		0027	-4.11	
SA	0347	0626	-4.40			0853	1122	-3.78		MO	0423	0701	-4.99		TU	0415	0706	3.16	
	1013	1257	3.62		SU	1431	1659	2.82			1039	1319	3.74			1059	1325	-3.61	
	1602	1842	-4.73			1952	2245	-4.99			1556	1844	-6.24			1709	2002	2.28	
	2231										2252					2252			
4		0115	3.87		12	0257	0541	3.66		20		0134	4.79		28		0138	-3.55	
SU	0431	0710	-4.61			0941	1208	-3.45		TU	0516	0755	-5.11		WE	0518	0820	2.82	
	1053	1335	3.66		MO	1511	1739	2.46			1127	1404	3.75			1158	1430	-3.46	
	1630	1913	-5.06			2036	2336	-4.63			1638	1927	-6.64			1830	2126	2.40	
	2303										2339								
5		0146	4.12		13	0345	0632	3.34		21		0220	4.86		29	0020	0259	-3.22	
MO	0510	0750	-4.72			1037	1301	-3.18		WE	0607	0843	-5.09		TH	0638	0948	2.72	
	1127	1407	3.65		TU	1605	1838	2.09			1211	1446	3.71			1257	1539	-3.59	
	1655	1942	-5.30			2140					1721	2010	-6.74			1940	2234	2.81	
	2334																		
6		0217	4.28		14		0042	-4.23		22	0025	0306	4.76		30	0143	0418	-3.29	
TU	0545	0826	-4.75			0446	0749	3.09		TH	0655	0928	-4.96		FR	0759	1055	2.82	
	1158	1434	3.60		WE	1140	1404	-3.12			1254	1527	3.62			1349	1637	-3.95	
	1720	2007	-5.45			1725	2025	2.09			1804	2055	-6.53			2033	2322	3.30	
						2309													
7	0004	0247	4.35		15		0201	-3.97		23	0110	0351	4.55		31	0249	0521	-3.61	
WE	0619	0901	-4.69		TH	0604	0923	3.11		FR	0742	1010	-4.75		SA	0903	1149	2.95	
	1228	1500	3.54			1243	1512	-3.43			1336	1609	3.45			1432	1721	-4.37	
	1747	2032	-5.52			1856	2201	2.73			1850	2141	-6.07			2115	2359	3.74	
8	0035	0318	4.35		16	0044	0326	-4.02		24	0154	0435	4.26						
TH	0654	0934	-4.57		FR	0729	1036	3.32		SA	0829	1054	-4.51						
	1258	1526	3.45			1340	1617	-4.06			1419	1655	3.20						
	1815	2059	-5.51			2009	2309	3.49			1939	2231	-5.46						

AUSTRALIA, SOUTH COAST – THE RIP

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

TIDAL STREAM PREDICTIONS (RATES IN KNOTS)

NOVEMBER - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate
1 SU ○	0340	0611	-3.97	9 MO	0147	0431	4.07	17 TU	0418	0651	-4.54	25 WE	0008	0008	-3.87
	0952	1233	3.07		0827	1100	-4.09		0651	0922	-4.54		0336	0626	3.22
	1507	1758	-4.76		1422	1647	2.77		1022	1300	3.33		1009	1244	-4.13
	2151				1936	2226	-4.87		1517	1808	-6.33		1647	1934	2.55
									2226				2240		
2 MO	0421	0654	-4.27	10 TU	0228	0512	3.80	18 WE	0509	0743	-4.73	26 TH	0429	0726	2.76
	1033	1311	3.16		0909	1140	-3.95		1111	1350	3.41		1053	1337	-3.95
	1538	1830	-5.08		1505	1735	2.57		1606	1858	-6.56		1750	2042	2.64
	2225				2030	2322	-4.45		2315						
3 TU	0457	0733	-4.48	11 WE	0314	0559	3.47	19 TH	0556	0829	-4.83	27 FR	0005	0230	-2.85
	1108	1344	3.21		0954	1226	-3.88		1158	1437	3.45		0539	0844	2.38
	1609	1858	-5.32		1601	1845	2.46		1655	1946	-6.52		1141	1437	-3.89
	2258				2144								1851	2145	2.96
4 WE	0530	0810	-4.60	12 TH	0411	0703	3.12	20 FR	0640	0911	-4.85	28 SA	0125	0346	-2.77
	1141	1413	3.32		1045	1320	-3.94		1242	1522	3.42		0708	1003	2.22
	1640	1927	-5.47		1712	2017	2.70		1744	2035	-6.23		1230	1536	-4.02
	2330				2314								1944	2235	3.39
5 TH	0603	0844	-4.62	13 FR	0525	0833	2.92	21 SA	0724	0952	-4.82	29 SU	0825	1104	2.24
	1212	1439	3.23		1141	1421	-4.19		1326	1607	3.32		1318	1626	-4.29
	1712	1955	-5.54		1830	2138	3.26		1834	2125	-5.75		2029	2316	3.80
6 FR	0637	0917	-4.57	14 SA	0654	0956	2.93	22 SU	0805	1033	-4.72	30 MO	0923	1155	2.38
	1243	1506	3.18		1238	1524	-4.66		1411	1653	3.15		1403	1709	-4.60
	1745	2027	-5.51		1940	2241	3.86		1927	2217	-5.15		2110	2354	4.15
7 SA	0036	0319	4.46	15 SU	0211	0438	-3.89	23 MO	0211	0453	3.97				
	0712	0950	-4.44		0817	1106	3.05		0845	1114	-4.56				
	1315	1537	3.09		1334	1624	-5.27		1458	1741	2.92				
	1818	2101	-5.40		2041	2332	4.37		2022	2310	-4.51				
8 SU	0110	0354	4.29	16 MO	0320	0550	-4.25	24 TU	0252	0538	3.63				
	0749	1023	-4.27		0926	1206	3.20		0926	1157	-4.36				
	1347	1610	2.95		1427	1718	-5.87		1549	1834	2.69				
	1854	2140	-5.19		2135				2125						

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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 - 2020

	Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		Slack Time	Maximum Time	Rate		
1	0404	0633	-3.83		9	0210	0454	3.89		17	0049	4.75		25	0043	-3.31	
	1008	1238	2.57			0841	1117	-4.58			0727	-4.38			0343	0630	2.92
TU	1445	1745	-4.91		WE	1504	1743	2.89		TH	1057	1336	3.15	FR	0952	1243	-4.47
	2148					2036	2319	-4.37			1545	1838	-6.15		1701	1952	2.95
											2256				2326		
2		0031	4.40		10	0255	0539	3.60		18		0138	4.74	26		0147	-2.80
	0440	0714	-4.12			0917	1157	-4.67			0543	0812	-4.61		0435	0725	2.40
WE	1048	1317	2.74		TH	1556	1850	2.97		FR	1146	1430	3.29	SA	1028	1330	-4.29
	1527	1818	-5.18			2150					1640	1932	-6.10		1753	2048	3.11
	2226										2344						
3		0108	4.56		11		0025	-3.90		19		0224	4.64	27	0042	0256	-2.47
	0516	0751	-4.31			0346	0633	3.24			0625	0855	-4.78		0547	0838	1.91
TH	1124	1352	2.88		FR	0959	1243	-4.78		SA	1232	1518	3.35	SU	1110	1422	-4.18
	1606	1852	-5.37			1658	2001	3.21			1733	2024	-5.86		1846	2143	3.38
	2302					2316											
4		0145	4.61		12		0139	-3.50		20	0028	0308	4.48	28	0153	0409	-2.47
	0550	0826	-4.43			0451	0743	2.87			0704	0934	-4.90		0719	0954	1.66
FR	1158	1425	2.96		SA	1047	1337	-4.92		SU	1317	1603	3.33	MO	1200	1517	-4.21
	1645	1928	-5.47			1805	2110	3.58			1825	2113	-5.47		1938	2231	3.69
	2338																
5		0221	4.58		13	0044	0301	-3.32		21	0109	0350	4.27	29	0253	0514	-2.81
	0624	0900	-4.48			0614	0906	2.61			0740	1012	-4.94		0839	1101	1.70
SA	1231	1457	2.98		SU	1143	1438	-5.12		MO	1401	1644	3.24	TU	1257	1611	-4.38
	1723	2006	-5.47			1911	2210	4.00			1917	2022	-4.98		2027	2317	3.99
6	0015	0258	4.49		14	0205	0423	-3.45		22	0147	0430	4.02	30	0341	0606	-3.25
	0658	0933	-4.50			0745	1027	2.57			0815	1048	-4.91		0937	1157	1.95
SU	1304	1530	2.97		MO	1244	1542	-5.42		TU	1444	1727	3.11	WE	1354	1659	-4.64
	1803	2046	-5.36			2014	2305	4.37			2010	2252	-4.43		2114		
7	0052	0335	4.34		15	0312	0534	-3.77		23	0223	0509	3.73	31		0000	4.23
	0732	1007	-4.50			0901	1136	2.72			0847	1124	-4.81		0423	0651	-3.65
MO	1340	1606	2.94		TU	1347	1644	-5.75		WE	1527	1811	2.99	TH	1024	1246	2.29
	1845	2130	-5.14			2112	2358	4.63			2108	2344	-3.87		1448	1743	-4.39
															2158		
8	0129	0413	4.14		16	0409	0635	-4.10		24	0301	0548	3.37				
	0806	1041	-4.53			1004	1238	2.94			0919	1202	-4.66				
TU	1419	1649	2.91		WE	1447	1743	-6.02		TH	1613	1859	2.92				
	1935	2220	-4.80			2206					2213						

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Predictions for The Rip computed by Cardno Pty Ltd

Positive (+) Direction 038° Negative (-) Direction 200° When daylight saving time is in force, add one hour to times

Moon Phase Symbols

● New Moon

◐ First Quarter

○ Full Moon

◑ Last Quarter

Port Welshpool Pier

*Time Differences for Supplementary Locations
– based on based on Port Welshpool Pier*

Location	Time diff (earlier) later HM	Rise of tide	
		Springs metres	Neaps metres
<i>Port Welshpool (Rabbit Island)</i>	<i>(1 20)</i>	2.4	2.1
<i>Franklin Spit Light</i>	<i>(0 40)</i>	2.4	1.9
<i>Fishermans Wharf (Franklin River)</i>	<i>(0 36)</i>	2.7	2.0
<i>Bennison Channel</i>	<i>(0 30)</i>	2.4	2.0
<i>Port Albert Front Lead</i>	<i>(0 30)</i>	2.1	1.6
<i>No. 3 Franklin Channel Light</i>	<i>(0 20)</i>	2.5	2.0
<i>No. 2 Lewis Channel Light</i>	<i>(0 20)</i>	2.4	1.9
Port Albert Pier	0 00	2.1	1.6
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 (2009-2018)	3.12
1.36	Highest Astronomical Tide (HAT)	2.96
1.01	Mean High Water Springs (MHWS)	2.61
0.63	Mean High Water Neaps (MHWN)	2.23
0.000	Australian Height Datum	1.600
-0.52	Mean Low Water Neaps (MLWN)	1.084
-0.89	Mean Low Water Springs (MLWS)	0.71
-1.600	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.89	Lowest recorded tide 09/11/2017 (2009-2018)	-0.34

Port Welsh

Tide Records - © Commonwealth of Australia, Bureau of Meteorology

PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0543 2.59 1148 0.93 WE 1723 2.20 2338 0.55		9 0401 1.25 0942 2.33 TH 1654 0.50 2351 2.18		17 0614 2.72 1221 0.54 FR 1826 2.45 ●		25 0107 2.30 0639 1.27 SA 1207 2.19 ● 1910 0.45	
2 0614 2.55 1227 0.87 TH 1806 2.18		10 0503 1.33 1036 2.30 FR 1753 0.44		18 0027 0.45 0652 2.72 SA 1311 0.40 1922 2.45		26 0210 2.33 0747 1.26 SU 1316 2.14 2008 0.49	
3 0013 0.64 0642 2.52 FR 1300 0.82 ● 1846 2.16		11 0100 2.27 0614 1.36 SA 1143 2.28 ○ 1856 0.38		19 0115 0.57 0728 2.69 SU 1358 0.30 2015 2.44		27 0307 2.38 0853 1.19 MO 1423 2.11 2103 0.52	
4 0044 0.73 0706 2.49 SA 1333 0.76 1927 2.15		12 0205 2.38 0725 1.31 SU 1256 2.28 1956 0.31		20 0200 0.71 0802 2.64 MO 1443 0.25 2109 2.40		28 0356 2.42 0950 1.10 TU 1526 2.12 2154 0.56	
5 0115 0.83 0730 2.46 SU 1405 0.70 2008 2.13		13 0303 2.48 0830 1.20 MO 1405 2.31 2054 0.27		21 0247 0.86 0840 2.58 TU 1530 0.25 2203 2.35		29 0438 2.45 1040 0.99 WE 1622 2.14 2239 0.61	
6 0147 0.93 0756 2.44 MO 1439 0.65 2054 2.12		14 0357 2.58 0933 1.06 TU 1514 2.35 2150 0.26		22 0337 1.00 0921 2.49 WE 1618 0.28 2301 2.32		30 0514 2.47 1122 0.89 TH 1711 2.17 2318 0.67	
7 0226 1.04 0825 2.40 TU 1517 0.60 2145 2.12		15 0445 2.66 1033 0.89 WE 1620 2.39 2245 0.28		23 0430 1.13 1008 2.39 TH 1712 0.34		31 0545 2.47 1159 0.80 FR 1754 2.19 2352 0.73	
8 0310 1.15 0900 2.37 WE 1601 0.55 2245 2.14		16 0531 2.71 1130 0.71 TH 1726 2.43 2337 0.35		24 0003 2.29 0531 1.22 FR 1103 2.29 1810 0.40			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0611 2.47 1231 0.71 SA 1833 2.22		9 0006 2.24 0530 1.25 SU 1103 2.36 ○ 1816 0.38		17 0108 0.64 0712 2.68 MO 1340 0.14 2011 2.57		25 0224 2.19 0820 1.19 TU 1405 2.02 2038 0.75	
2 0024 0.79 0635 2.47 SU 1303 0.63 ● 1912 2.24		10 0116 2.29 0645 1.22 MO 1223 2.32 1925 0.37		18 0152 0.75 0746 2.63 TU 1423 0.16 2056 2.50		26 0317 2.24 0919 1.07 WE 1515 2.07 2131 0.77	
3 0055 0.85 0700 2.48 MO 1335 0.56 1951 2.26		11 0224 2.38 0801 1.10 TU 1346 2.31 2031 0.37		19 0234 0.86 0822 2.56 WE 1505 0.23 2141 2.42		27 0401 2.30 1008 0.94 TH 1612 2.14 2217 0.79	
4 0128 0.91 0727 2.48 TU 1409 0.50 2032 2.27		12 0325 2.48 0913 0.91 WE 1508 2.36 2135 0.38		20 0317 0.97 0900 2.47 TH 1549 0.33 2227 2.32		28 0438 2.34 1048 0.81 FR 1700 2.22 2258 0.82	
5 0203 0.99 0757 2.47 WE 1445 0.45 2116 2.26		13 0420 2.59 1016 0.69 TH 1625 2.44 2235 0.41		21 0403 1.08 0941 2.36 FR 1638 0.45 2319 2.24		29 0509 2.38 1124 0.70 SA 1741 2.29 2332 0.85	
6 0244 1.06 0830 2.46 TH 1526 0.41 2204 2.24		14 0509 2.66 1115 0.47 FR 1732 2.52 2330 0.47		22 0455 1.18 1030 2.23 SA 1733 0.56			
7 0330 1.14 0909 2.45 FR 1614 0.39 2300 2.23		15 0554 2.70 1207 0.30 SA 1830 2.58		23 0018 2.18 0559 1.25 SU 1131 2.11 1834 0.66			
8 0424 1.21 0959 2.41 SA 1711 0.39		16 0021 0.54 0635 2.71 SU 1255 0.18 ● 1923 2.60		24 0122 2.16 0710 1.26 MO 1248 2.03 ● 1938 0.72			

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

PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MARCH - 2020

Time	m	Time	m	Time	m	Time	m
1 0536 2.41 1157 0.60 SU 1818 2.35		9 0458 1.09 1040 2.39 MO 1741 0.47		17 0056 0.73 0650 2.64 TU 1315 0.12 1954 2.68		25 0128 2.08 0741 1.12 WE 1354 2.00 2006 1.01	
2 0003 0.88 0601 2.44 MO 1230 0.51 1855 2.40		10 0025 2.28 0615 1.05 TU 1207 2.32 ○ 1857 0.53		18 0138 0.79 0726 2.59 WE 1357 0.20 2033 2.59		26 0225 2.12 0839 0.99 TH 1503 2.10 2102 1.02	
3 0035 0.90 0630 2.47 TU 1302 0.44 ● 1931 2.42		11 0138 2.33 0737 0.91 WE 1342 2.33 2011 0.56		19 0217 0.87 0800 2.52 TH 1436 0.32 2111 2.48		27 0313 2.18 0927 0.85 FR 1559 2.23 2150 1.02	
4 0108 0.93 0659 2.49 WE 1337 0.40 2009 2.42		12 0245 2.43 0851 0.69 TH 1511 2.43 2120 0.58		20 0257 0.95 0837 2.41 FR 1517 0.46 2149 2.36		28 0351 2.25 1007 0.71 SA 1643 2.35 2230 1.01	
5 0143 0.96 0730 2.50 TH 1413 0.36 2047 2.39		13 0346 2.53 0957 0.45 FR 1627 2.56 2223 0.60		21 0337 1.04 0916 2.29 SA 1600 0.61 2232 2.24		29 0424 2.30 1044 0.60 SU 1722 2.45 2306 1.01	
6 0221 1.00 0803 2.51 FR 1453 0.34 2129 2.36		14 0441 2.61 1054 0.26 SA 1730 2.68 2319 0.63		22 0424 1.13 1001 2.16 SU 1651 0.76 2323 2.14		30 0454 2.36 1118 0.51 MO 1759 2.52 2340 1.00	
7 0304 1.04 0843 2.51 SA 1539 0.35 2216 2.31		15 0529 2.65 1145 0.13 SU 1824 2.74		23 0522 1.19 1104 2.03 MO 1753 0.89		31 0525 2.41 1154 0.44 TU 1833 2.56	
8 0355 1.08 0933 2.47 SU 1634 0.40 2315 2.28		16 0010 0.67 0612 2.66 MO 1231 0.09 ● 1911 2.74		24 0024 2.09 0632 1.19 TU 1230 1.96 ● 1901 0.98			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0014 0.99 0558 2.45 WE 1230 0.39 ● 1909 2.57		9 0049 2.38 0715 0.67 TH 1344 2.40 1950 0.83		17 0159 0.92 0738 2.44 FR 1405 0.49 2037 2.53		25 0206 2.15 0839 0.75 SA 1535 2.37 2112 1.25	
2 0047 0.99 0630 2.48 TH 1305 0.36 1944 2.55		10 0201 2.43 0828 0.46 FR 1510 2.56 2101 0.84		18 0236 0.97 0815 2.34 SA 1443 0.64 2111 2.41		26 0251 2.21 0922 0.63 SU 1618 2.50 2156 1.21	
3 0123 0.99 0703 2.51 FR 1343 0.35 2018 2.51		11 0306 2.50 0930 0.27 SA 1619 2.72 2205 0.83		19 0315 1.03 0855 2.22 SU 1522 0.80 2145 2.30		27 0331 2.28 1002 0.53 MO 1658 2.60 2234 1.17	
4 0200 0.99 0741 2.53 SA 1423 0.36 2055 2.47		12 0404 2.56 1027 0.15 SU 1717 2.83 2301 0.83		20 0358 1.08 0941 2.10 MO 1607 0.96 2225 2.21		28 0410 2.35 1041 0.46 TU 1734 2.66 2312 1.13	
5 0244 0.97 0824 2.51 SU 1509 0.41 2137 2.43		13 0456 2.59 1117 0.11 MO 1807 2.86 2352 0.83		21 0450 1.11 1046 2.00 TU 1704 1.12 2314 2.13		29 0447 2.41 1119 0.42 WE 1810 2.68 2349 1.10	
6 0334 0.96 0919 2.46 MO 1603 0.51 2230 2.39		14 0542 2.59 1203 0.14 TU 1851 2.83		22 0553 1.09 1215 1.97 WE 1815 1.23		30 0525 2.46 1158 0.39 TH 1845 2.68	
7 0438 0.92 1032 2.37 TU 1711 0.65 2336 2.36		15 0037 0.85 0622 2.57 WE 1246 0.23 ● 1930 2.75		23 0014 2.09 0656 1.02 TH 1337 2.06 ● 1923 1.28			
8 0555 0.84 1206 2.33 WE 1830 0.76 ○		16 0119 0.88 0700 2.52 TH 1327 0.35 2004 2.64		24 0115 2.10 0752 0.89 FR 1443 2.21 2022 1.28			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0026 1.06 0602 2.49 FR 1236 0.39 ● 1918 2.65		9 0116 2.47 0801 0.32 SA 1459 2.68 2038 1.08		17 0216 1.00 0755 2.27 SU 1408 0.82 2032 2.47		25 0151 2.26 0840 0.58 MO 1546 2.59 2114 1.36	
2 0104 1.02 0642 2.51 SA 1315 0.41 1951 2.62		10 0223 2.50 0902 0.21 SU 1602 2.82 2142 1.05		18 0254 1.02 0836 2.17 MO 1443 0.97 2100 2.39		26 0241 2.32 0924 0.50 TU 1628 2.67 2159 1.30	
3 0145 0.97 0724 2.51 SU 1358 0.46 2025 2.59		11 0323 2.52 0958 0.17 MO 1656 2.89 2238 1.02		19 0332 1.03 0925 2.08 TU 1522 1.13 2130 2.32		27 0329 2.38 1007 0.45 WE 1707 2.72 2243 1.23	
4 0230 0.91 0815 2.48 MO 1445 0.56 2105 2.56		12 0418 2.53 1047 0.20 TU 1743 2.89 2329 0.99		20 0417 1.02 1027 2.03 WE 1611 1.28 2206 2.25		28 0414 2.44 1049 0.42 TH 1745 2.74 2326 1.16	
5 0323 0.84 0916 2.42 TU 1541 0.71 2155 2.52		13 0508 2.52 1134 0.29 WE 1825 2.83		21 0510 0.98 1147 2.05 TH 1715 1.41 2255 2.20		29 0458 2.48 1131 0.42 FR 1821 2.73	
6 0427 0.75 1036 2.36 WE 1648 0.88 2256 2.49		14 0015 0.98 0553 2.49 TH 1216 0.41 1901 2.75		22 0607 0.90 1305 2.15 FR 1827 1.47 2354 2.18		30 0009 1.08 0543 2.50 SA 1213 0.45 ● 1855 2.71	
7 0540 0.63 1212 2.39 TH 1808 1.02 ○		15 0059 0.98 0635 2.43 FR 1256 0.54 ● 1933 2.66		23 0702 0.80 1409 2.31 SA 1930 1.47 ●		31 0052 1.00 0630 2.50 SU 1255 0.51 1928 2.70	
8 0005 2.46 0654 0.48 FR 1342 2.52 1927 1.08		16 0139 0.98 0715 2.36 SA 1333 0.67 2004 2.56		24 0055 2.20 0753 0.68 SU 1501 2.46 2025 1.43			

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PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JUNE - 2020

Time	m	Time	m	Time	m	Time	m
1 0137 0.90 0720 2.48 MO 1340 0.61 2001 2.68		9 0245 2.48 0929 0.29 TU 1630 2.84 2212 1.16		17 0302 0.93 0905 2.13 WE 1442 1.21 2045 2.43		25 0255 2.42 0939 0.44 TH 1640 2.71 2216 1.23	
2 0225 0.79 0818 2.44 TU 1429 0.75 2041 2.66		10 0343 2.46 1019 0.36 WE 1715 2.82 2305 1.10		18 0341 0.89 1000 2.12 TH 1525 1.33 2117 2.39		26 0349 2.46 1027 0.44 FR 1721 2.74 2308 1.12	
3 0318 0.68 0926 2.40 WE 1525 0.92 2128 2.63		11 0437 2.44 1106 0.46 TH 1756 2.77 2353 1.06		19 0425 0.84 1105 2.15 FR 1618 1.45 2200 2.35		27 0444 2.48 1114 0.47 SA 1800 2.75 2358 0.99	
4 0418 0.58 1045 2.39 TH 1630 1.09 2223 2.58		12 0527 2.40 1149 0.57 FR 1830 2.71		20 0516 0.78 1216 2.23 SA 1723 1.53 2252 2.32		28 0539 2.49 1200 0.54 SU 1836 2.75 ☉	
5 0523 0.47 1210 2.46 FR 1745 1.22 2328 2.53		13 0037 1.03 0613 2.35 SA 1228 0.70 ☉ 1902 2.64		21 0613 0.71 1323 2.34 SU 1831 1.54 ● 2355 2.31		29 0046 0.85 0634 2.48 MO 1245 0.64 1910 2.75	
6 0630 0.38 1329 2.58 SA 1900 1.27 ☉		14 0117 1.01 0655 2.29 SU 1303 0.83 1930 2.57		22 0708 0.62 1419 2.47 MO 1934 1.51		30 0134 0.72 0731 2.47 TU 1332 0.76 1944 2.74	
7 0037 2.50 0734 0.30 SU 1438 2.71 2011 1.26		15 0154 0.99 0736 2.22 MO 1335 0.95 1955 2.52		23 0059 2.33 0800 0.54 TU 1510 2.57 2031 1.43			
8 0143 2.49 0833 0.27 MO 1538 2.80 2115 1.21		16 0228 0.96 0819 2.17 TU 1407 1.08 2018 2.47		24 0159 2.37 0850 0.48 WE 1556 2.66 2125 1.34			

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

PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0222 0.60 0831 2.45 WE 1422 0.91 2022 2.72		9 0316 2.36 0955 0.52 TH 1647 2.69 2242 1.15		17 0303 0.73 0928 2.24 FR 1451 1.28 2041 2.50		25 0340 2.46 1011 0.48 SA 1657 2.71 2254 0.93	
2 0312 0.50 0935 2.43 TH 1515 1.06 2106 2.68		10 0415 2.34 1043 0.60 FR 1727 2.67 2330 1.08		18 0344 0.69 1021 2.24 SA 1538 1.37 2119 2.47		26 0445 2.49 1103 0.53 SU 1740 2.75 2348 0.75	
3 0405 0.43 1044 2.44 FR 1615 1.20 2157 2.62		11 0508 2.31 1126 0.71 SA 1800 2.63		19 0430 0.66 1120 2.27 SU 1632 1.45 2206 2.44		27 0549 2.52 1154 0.62 MO 1818 2.77 ☉	
4 0502 0.40 1155 2.47 SA 1720 1.31 2256 2.55		12 0014 1.01 0555 2.28 SU 1203 0.81 1830 2.60		20 0524 0.62 1226 2.32 MO 1736 1.49 2305 2.41		28 0038 0.59 0648 2.54 TU 1243 0.72 1855 2.77	
5 0604 0.38 1304 2.53 SU 1831 1.36 ☉		13 0051 0.95 0638 2.26 MO 1237 0.91 ☉ 1855 2.57		21 0624 0.57 1330 2.39 TU 1845 1.47 ●		29 0126 0.46 0744 2.54 WE 1330 0.84 1930 2.75	
6 0002 2.48 0706 0.39 MO 1411 2.60 1941 1.35		14 0124 0.89 0718 2.24 TU 1307 1.01 1917 2.55		22 0014 2.40 0724 0.52 WE 1429 2.48 1953 1.39		30 0212 0.38 0837 2.52 TH 1416 0.96 2006 2.72	
7 0109 2.43 0806 0.41 TU 1510 2.65 2046 1.30		15 0156 0.84 0759 2.23 WE 1337 1.09 1941 2.53		23 0125 2.40 0821 0.47 TH 1522 2.57 2056 1.26		31 0258 0.35 0931 2.48 FR 1504 1.08 2048 2.67	
8 0215 2.39 0902 0.45 WE 1602 2.68 2147 1.23		16 0228 0.78 0842 2.23 TH 1412 1.19 2008 2.52		24 0233 2.43 0916 0.46 FR 1612 2.65 2157 1.11			

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

PORT WELSHPOOL PIER

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

AUGUST - 2020

Time	m	Time	m	Time	m	Time	m
1 0346 0.36 1028 2.44 SA 1556 1.20 2134 2.59		9 0456 2.26 1105 0.80 SU 1728 2.53 2343 0.90		17 0349 0.54 1031 2.29 MO 1555 1.30 2131 2.50		25 0556 2.63 1149 0.67 TU 1800 2.75	
2 0439 0.41 1128 2.41 SU 1654 1.29 2229 2.49		10 0541 2.28 1142 0.88 MO 1755 2.53		18 0441 0.54 1130 2.28 TU 1654 1.33 2229 2.46		26 0023 0.31 0651 2.66 WE 1238 0.75 ● 1838 2.74	
3 0537 0.47 1231 2.40 MO 1800 1.35 2332 2.39		11 0017 0.82 0621 2.30 TU 1213 0.94 1819 2.53		19 0542 0.53 1237 2.31 WE 1805 1.32 ● 2342 2.41		27 0109 0.24 0742 2.65 TH 1323 0.84 1915 2.72	
4 0639 0.53 1336 2.41 TU 1912 1.36 ○		12 0048 0.74 0700 2.33 WE 1242 1.00 ● 1843 2.55		20 0649 0.53 1344 2.38 TH 1921 1.23		28 0153 0.24 0829 2.59 FR 1406 0.94 1952 2.67	
5 0043 2.30 0741 0.57 WE 1438 2.44 2021 1.30		13 0119 0.67 0736 2.35 TH 1313 1.05 1909 2.56		21 0105 2.39 0756 0.52 FR 1445 2.48 2033 1.06		29 0237 0.29 0915 2.51 SA 1450 1.03 2031 2.59	
6 0154 2.25 0840 0.62 TH 1532 2.48 2124 1.21		14 0152 0.62 0815 2.35 FR 1346 1.11 1939 2.55		22 0227 2.42 0900 0.52 SA 1541 2.58 2139 0.84		30 0322 0.38 1000 2.41 SU 1536 1.13 2115 2.49	
7 0302 2.24 0934 0.67 FR 1617 2.51 2218 1.10		15 0227 0.58 0856 2.34 SA 1424 1.17 2011 2.54		23 0344 2.49 1000 0.55 SU 1631 2.67 2239 0.63		31 0411 0.49 1051 2.32 MO 1628 1.22 2205 2.37	
8 0403 2.24 1023 0.73 SA 1655 2.53 2304 1.00		16 0305 0.55 0941 2.32 SU 1506 1.24 2047 2.53		24 0454 2.56 1057 0.60 MO 1717 2.72 2333 0.44			

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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

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0507 0.60 1149 2.25 TU 1730 1.28 2309 2.24		9 0601 2.42 1148 0.96 WE 1742 2.48		17 0506 0.56 1145 2.28 TH 1736 1.10 ● 2328 2.36		25 0046 0.13 0728 2.73 FR 1311 0.82 1858 2.64	
2 0610 0.70 1254 2.22 WE 1844 1.29 ○		10 0010 0.57 0637 2.46 TH 1219 0.97 ● 1809 2.51		18 0619 0.62 1257 2.32 FR 1858 0.97		26 0130 0.21 0810 2.63 SA 1353 0.89 1936 2.57	
3 0026 2.14 0715 0.77 TH 1358 2.24 1956 1.22		11 0043 0.51 0712 2.47 FR 1250 1.00 1839 2.53		19 0103 2.36 0734 0.65 SA 1404 2.41 2013 0.76		27 0212 0.33 0849 2.51 SU 1434 0.96 2015 2.47	
4 0145 2.12 0818 0.80 FR 1454 2.29 2058 1.10		12 0117 0.48 0748 2.46 SA 1324 1.03 1911 2.54		20 0231 2.45 0844 0.66 SU 1505 2.51 2119 0.52		28 0255 0.47 0928 2.38 MO 1517 1.03 2059 2.35	
5 0257 2.16 0914 0.83 SA 1540 2.34 2148 0.97		13 0153 0.46 0825 2.43 SU 1400 1.06 1945 2.54		21 0349 2.59 0947 0.67 MO 1600 2.60 2218 0.31		29 0341 0.62 1011 2.27 TU 1606 1.11 2149 2.21	
6 0356 2.23 1002 0.86 SU 1617 2.38 2230 0.84		14 0230 0.45 0904 2.37 MO 1440 1.10 2021 2.52		22 0455 2.71 1045 0.69 TU 1650 2.66 2312 0.17		30 0433 0.77 1101 2.16 WE 1706 1.16 2256 2.08	
7 0445 2.30 1043 0.89 MO 1648 2.41 2305 0.74		15 0314 0.46 0948 2.32 TU 1527 1.13 2106 2.49		23 0552 2.78 1138 0.72 WE 1736 2.68			
8 0525 2.36 1117 0.93 TU 1715 2.45 2338 0.64		16 0404 0.50 1041 2.29 WE 1624 1.14 2207 2.43		24 0000 0.11 0643 2.79 TH 1227 0.77 ● 1818 2.68			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0537 0.90 1202 2.10 TH 1816 1.15		9 0614 2.58 1155 0.98 FR 1737 2.46		17 0552 0.79 1209 2.33 SA 1838 0.66 ●		25 0104 0.27 0745 2.65 SU 1338 0.85 1919 2.44	
2 0019 2.02 0646 0.98 FR 1306 2.09 ○ 1925 1.07		10 0008 0.40 0647 2.58 SA 1228 0.97 ● 1811 2.48		18 0108 2.38 0713 0.85 SU 1321 2.39 1951 0.44		26 0145 0.43 0820 2.52 MO 1420 0.89 2001 2.33	
3 0142 2.06 0752 1.02 SA 1403 2.13 2022 0.94		11 0044 0.38 0721 2.55 SU 1301 0.98 1845 2.49		19 0233 2.55 0826 0.85 MO 1426 2.46 2056 0.24		27 0226 0.59 0854 2.39 TU 1502 0.94 2046 2.20	
4 0249 2.17 0848 1.02 SU 1451 2.19 2109 0.80		12 0120 0.39 0755 2.50 MO 1338 0.98 1920 2.48		20 0345 2.72 0931 0.83 TU 1525 2.53 2154 0.09		28 0308 0.77 0930 2.27 WE 1549 0.99 2138 2.07	
5 0343 2.30 0936 1.01 MO 1530 2.25 2148 0.67		13 0159 0.41 0830 2.44 TU 1419 0.98 2000 2.46		21 0445 2.84 1030 0.80 WE 1620 2.58 2246 0.03		29 0357 0.94 1011 2.17 TH 1644 1.01 2246 1.98	
6 0426 2.41 1016 1.00 TU 1603 2.31 2224 0.56		14 0242 0.46 0909 2.39 WE 1507 0.95 2052 2.42		22 0538 2.89 1122 0.79 TH 1710 2.60 2335 0.05		30 0457 1.09 1100 2.08 FR 1744 0.98	
7 0504 2.50 1051 0.99 WE 1634 2.37 2259 0.48		15 0333 0.55 0957 2.35 TH 1605 0.91 2200 2.34		23 0625 2.86 1210 0.80 FR 1756 2.58 ●		31 0010 1.97 0607 1.20 SA 1158 2.04 1845 0.90	
8 0540 2.56 1123 0.98 TH 1704 2.42 2333 0.43		16 0436 0.67 1058 2.32 FR 1718 0.82 2330 2.30		24 0021 0.14 0707 2.77 SA 1256 0.81 1838 2.53			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0128 2.07 0715 1.23 SU 1259 2.05 ○ 1938 0.77		9 0015 0.35 0656 2.60 MO 1244 0.95 1823 2.42		17 0226 2.62 0804 1.04 TU 1346 2.43 2030 0.09		25 0159 0.71 0821 2.42 WE 1447 0.84 2035 2.10	
2 0230 2.23 0813 1.22 MO 1351 2.10 2024 0.64		10 0052 0.38 0728 2.56 TU 1323 0.91 1903 2.41		18 0331 2.78 0910 0.98 WE 1449 2.47 2128 0.02		26 0237 0.88 0851 2.32 TH 1530 0.85 2127 2.01	
3 0320 2.39 0901 1.18 TU 1435 2.16 2105 0.53		11 0132 0.43 0800 2.51 WE 1406 0.85 1951 2.38		19 0429 2.87 1009 0.92 TH 1547 2.49 2220 0.03		27 0318 1.05 0921 2.24 FR 1614 0.84 2230 1.97	
4 0402 2.52 0943 1.13 WE 1515 2.23 2145 0.44		12 0216 0.53 0837 2.48 TH 1456 0.77 2049 2.32		20 0518 2.88 1102 0.87 FR 1643 2.49 2310 0.11		28 0408 1.21 0956 2.16 SA 1703 0.80 2344 1.99	
5 0440 2.61 1020 1.08 TH 1553 2.30 2222 0.38		13 0309 0.67 0922 2.45 FR 1555 0.67 2204 2.28		21 0603 2.84 1153 0.83 SA 1733 2.46 2357 0.23		29 0511 1.33 1042 2.10 SU 1757 0.74	
6 0515 2.65 1056 1.04 FR 1630 2.36 2300 0.35		14 0413 0.84 1017 2.41 SA 1704 0.55 2337 2.30		22 0643 2.75 1240 0.81 SU 1820 2.40 ●		30 0057 2.10 0619 1.39 MO 1139 2.08 ○ 1849 0.65	
7 0550 2.66 1130 1.01 SA 1707 2.40 2337 0.34		15 0529 0.98 1125 2.39 SU 1817 0.39 ●		23 0040 0.38 0718 2.64 MO 1324 0.81 1905 2.32			
8 0624 2.64 1207 0.98 SU 1745 2.42 ●		16 0108 2.43 0649 1.05 MO 1238 2.39 1927 0.22		24 0120 0.55 0751 2.53 TU 1406 0.82 1949 2.21			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0157 2.25 TU 1240 2.09 1939 0.55		9 0032 0.42 0706 2.60 WE 1315 0.79 1900 2.34		17 0312 2.69 0845 1.11 TH 1416 2.39 2102 0.10		25 0209 0.94 0815 2.39 FR 1500 0.69 2107 2.06	
2 0248 2.41 0815 1.32 WE 1337 2.13 2025 0.46		10 0115 0.51 0738 2.58 TH 1401 0.67 1955 2.32		18 0407 2.76 0946 1.02 FR 1520 2.39 2157 0.15		26 0244 1.07 0839 2.33 SA 1537 0.67 2159 2.05	
3 0333 2.53 0902 1.25 TH 1428 2.20 2108 0.39		11 0201 0.64 0813 2.57 FR 1451 0.55 2058 2.29		19 0457 2.77 1044 0.94 SA 1621 2.37 2248 0.24		27 0323 1.21 0909 2.28 SU 1618 0.65 2259 2.06	
4 0414 2.61 0945 1.18 FR 1514 2.26 2150 0.34		12 0255 0.80 0856 2.54 SA 1546 0.44 2212 2.28		20 0541 2.74 1136 0.86 SU 1717 2.34 2336 0.36		28 0412 1.32 0947 2.23 MO 1706 0.61	
5 0451 2.65 1028 1.11 SA 1559 2.30 2231 0.32		13 0356 0.97 0947 2.50 SU 1648 0.33 2335 2.34		21 0619 2.68 1224 0.80 MO 1808 2.29		29 0006 2.12 0513 1.41 TU 1036 2.18 1759 0.57	
6 0528 2.66 1109 1.04 SU 1643 2.34 2312 0.33		14 0506 1.11 1049 2.45 MO 1755 0.23		22 0020 0.50 0653 2.61 TU 1308 0.76 1854 2.23		30 0110 2.22 0617 1.43 WE 1136 2.15 1852 0.51	
7 0602 2.65 1150 0.97 MO 1727 2.36 2352 0.36		15 0055 2.45 0623 1.18 TU 1159 2.41 1900 0.15		23 0100 0.65 0723 2.53 WE 1348 0.73 1938 2.16		31 0207 2.33 0720 1.40 TH 1241 2.15 1945 0.45	
8 0635 2.62 1232 0.89 TU 1812 2.36		16 0208 2.58 0737 1.17 WE 1309 2.39 2003 0.10		24 0135 0.79 0750 2.45 TH 1425 0.71 2021 2.10			

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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	MHHW	MLHW	MHLW	MLLW
	HM	metres	metres	metres	metres
Portland	0 00	1.1	0.8	0.5	0.2
Port Fairy	0 01	1.1	0.9	0.5	0.3
Warrnambool	0 09	0.9	0.5	0.5	0.1
Port Campbell	0 00	1.2	0.8	0.6	0.2

EXTRA TIDES FOR 2020

PORTLAND

Month	Day	Time	Ht(m)
Sep	28	1934	0.53
	29	0013	0.61
Oct	28	0007	0.70
		0500	0.58
Nov	26	0520	0.66
		0914	0.71

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 (1982-2018)	1.60
0.71	Highest Astronomical Tide (HAT)	1.31
0.47	Mean Higher High Water (MHHW)	1.07
0.21	Mean Lower High Water (MLHW)	0.81
0.000	Australian Height Datum	0.597
-0.15	Mean Higher Low Water (MHLW)	0.45
-0.41	Mean Lower Low Water (MLLW)	0.19
-0.597	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-0.90	Lowest recorded tide 26/11/2003 (1982-2018)	-0.30

Portland

PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0317 1.06 0959 0.50 WE 1443 0.68 2023 0.36		9 0023 1.09 0858 0.51 TH 0929 0.51 1633 0.31		17 0326 0.93 1010 0.42 FR 1548 0.71 ● 2055 0.49		25 0109 1.13 0845 0.51 SA 1156 0.58 ● 1802 0.23	
2 0340 0.99 1026 0.49 TH 1526 0.67 2048 0.45		10 0048 1.17 0858 0.50 FR 1058 0.52 1713 0.26		18 0333 0.86 1027 0.37 SA 1705 0.71 2117 0.61		26 0131 1.14 0842 0.50 SU 1238 0.64 1840 0.22	
3 0357 0.93 1055 0.48 FR 1626 0.65 ● 2105 0.54		11 0116 1.21 1748 0.22 SA ○		19 0315 0.82 1049 0.32 SU		27 0153 1.14 0841 0.48 MO 1313 0.69 1913 0.23	
4 0406 0.86 1129 0.47 SA		12 0144 1.23 0930 0.52 SU 1211 0.57 1821 0.20		20 0223 0.82 1124 0.30 MO		28 0215 1.12 0853 0.45 TU 1348 0.73 1943 0.26	
5 0350 0.80 1215 0.46 SU		13 0212 1.21 0939 0.54 MO 1244 0.61 1854 0.20		21 0035 0.88 1221 0.31 TU		29 0236 1.08 0909 0.42 WE 1421 0.75 2010 0.30	
6 0056 0.79 1335 0.44 MO		14 0237 1.16 0938 0.54 TU 1321 0.65 1925 0.23		22 0024 0.97 1430 0.31 WE		30 0255 1.04 0928 0.40 TH 1455 0.76 2036 0.37	
7 0000 0.89 1451 0.41 TU		15 0258 1.08 0942 0.52 WE 1403 0.68 1956 0.29		23 0028 1.04 1613 0.29 TH		31 0312 0.98 0945 0.38 FR 1531 0.76 2100 0.44	
8 0003 0.99 1548 0.36 WE		16 0313 1.01 0954 0.48 TH 1451 0.70 2027 0.38		24 0047 1.10 1717 0.26 FR			

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

PORTLAND

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

FEBRUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0324 0.92 1003 0.36 SA 1611 0.76 2122 0.53		9 0119 1.17 0905 0.46 SU 1220 0.52 ○ 1807 0.25		17 0238 0.85 0959 0.19 MO 1757 0.79 2131 0.73		25 0135 1.07 0806 0.41 TU 1322 0.79 1923 0.28	
2 0329 0.87 1020 0.35 SU 1705 0.75 ● 2138 0.63		10 0142 1.17 0905 0.48 MO 1246 0.59 1846 0.23		18 0216 0.85 1028 0.22 TU		26 0153 1.05 0817 0.38 WE 1350 0.84 1951 0.30	
3 0318 0.82 1036 0.35 MO 1847 0.74 2126 0.73		11 0202 1.14 0857 0.48 TU 1314 0.67 1921 0.23		19 0117 0.88 1101 0.28 WE		27 0210 1.02 0832 0.35 TH 1418 0.88 2017 0.34	
4 0222 0.80 1054 0.36 TU		12 0219 1.07 0851 0.46 WE 1347 0.75 1953 0.27		20 0041 0.93 1150 0.37 TH		28 0225 0.98 0846 0.32 FR 1446 0.90 2041 0.40	
5 0026 0.87 1116 0.37 WE		13 0229 1.00 0856 0.40 TH 1423 0.81 2021 0.34		21 0038 0.98 1639 0.38 FR		29 0237 0.94 0900 0.30 SA 1515 0.91 2105 0.47	
6 0020 0.97 1153 0.39 TH		14 0237 0.94 0905 0.33 FR 1503 0.85 2046 0.44		22 0045 1.03 0821 0.48 SA 1156 0.56 1739 0.34			
7 0035 1.06 1609 0.36 FR		15 0246 0.89 0917 0.25 SA 1549 0.85 2107 0.54		23 0100 1.06 0809 0.47 SU 1227 0.64 1819 0.30			
8 0056 1.14 1719 0.30 SA		16 0248 0.86 0934 0.20 SU 1642 0.83 ● 2124 0.64		24 0118 1.07 0804 0.44 MO 1254 0.72 ● 1852 0.28			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0246 0.89 0912 0.28 SU 1547 0.90 2126 0.55		9 0107 1.10 0820 0.45 MO 1238 0.62 1823 0.32		17 0205 0.86 0919 0.16 TU 1704 0.88 2131 0.74		25 0105 1.00 0723 0.38 WE 1316 0.93 1922 0.37	
2 0251 0.85 0926 0.28 MO 1623 0.88 2145 0.63		10 0122 1.08 0808 0.46 TU 1257 0.73 ○ 1900 0.30		18 0155 0.85 0946 0.24 WE 1843 0.80 2100 0.79		26 0121 0.98 0735 0.35 TH 1340 0.99 1950 0.39	
3 0243 0.81 0940 0.28 TU 1713 0.85 ● 2152 0.73		11 0135 1.02 0757 0.43 WE 1322 0.84 1934 0.32		19 0113 0.86 1008 0.34 TH		27 0136 0.95 0749 0.31 FR 1405 1.04 2016 0.43	
4 0202 0.80 0954 0.30 WE		12 0142 0.95 0758 0.37 TH 1349 0.93 2004 0.37		20 0027 0.89 0948 0.45 FR		28 0149 0.91 0800 0.29 SA 1430 1.06 2041 0.48	
5 0030 0.86 1001 0.33 TH		13 0147 0.90 0805 0.28 FR 1421 0.99 2031 0.45		21 0017 0.93 0801 0.50 SA 1232 0.57 1700 0.49		29 0158 0.88 0812 0.27 SU 1455 1.07 2105 0.54	
6 0018 0.95 0950 0.36 FR		14 0153 0.87 0813 0.20 SA 1455 1.02 2053 0.53		22 0020 0.96 0727 0.49 SU 1215 0.67 1748 0.43		30 0208 0.85 0824 0.26 MO 1524 1.06 2129 0.61	
7 0033 1.04 0923 0.40 SA 1344 0.47 1632 0.44		15 0201 0.86 0828 0.14 SU 1533 1.01 2110 0.61		23 0033 0.99 0717 0.46 MO 1232 0.77 1823 0.39		31 0213 0.83 0840 0.26 TU 1555 1.02 2151 0.68	
8 0050 1.09 0832 0.43 SU 1233 0.52 1739 0.37		16 0205 0.86 0852 0.13 MO 1614 0.96 ● 2122 0.68		24 0049 1.00 0714 0.42 TU 1253 0.86 ● 1853 0.37			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0203 0.80 0856 0.28 WE 1635 0.96 ● 2204 0.77		9 0050 0.88 0657 0.38 TH 1315 1.04 1937 0.46		17 0042 0.82 0927 0.45 FR 2325 0.84		25 0056 0.88 0701 0.33 SA 1349 1.19 2015 0.55	
2 0117 0.81 0909 0.31 TH 1748 0.89		10 0051 0.84 0703 0.30 FR 1342 1.13 2006 0.52		18 0826 0.55 2313 0.88 SA		26 0108 0.86 0713 0.30 SU 1414 1.21 2041 0.59	
3 0910 0.35 2348 0.95 FR		11 0056 0.83 0709 0.21 SA 1410 1.17 2032 0.58		19 0641 0.56 1226 0.71 SU 1701 0.61 2330 0.91		27 0118 0.84 0728 0.29 MO 1439 1.21 2109 0.64	
4 0857 0.41 SA		12 0106 0.83 0725 0.15 SU 1442 1.17 2055 0.65		20 0620 0.52 1208 0.81 MO 1746 0.56 2350 0.93		28 0130 0.83 0745 0.28 TU 1508 1.18 2138 0.69	
5 0006 1.00 0801 0.46 SU 1325 0.59 1658 0.54		13 0118 0.85 0749 0.13 MO 1516 1.13 2114 0.70		21 0614 0.48 1221 0.91 TU 1819 0.52		29 0136 0.81 0805 0.30 WE 1540 1.13 2213 0.75	
6 0022 1.02 0730 0.48 MO 1236 0.68 1751 0.47		14 0128 0.86 0817 0.16 TU 1552 1.06 2129 0.74		22 0008 0.93 0622 0.43 WE 1240 1.01 1850 0.50		30 0121 0.80 0824 0.33 TH 1621 1.05 2317 0.81	
7 0033 1.00 0710 0.48 TU 1233 0.80 1831 0.43		15 0138 0.86 0847 0.24 WE 1633 0.97 ● 2143 0.77		23 0026 0.92 0635 0.39 TH 1302 1.09 ● 1919 0.50			
8 0044 0.94 0657 0.45 WE 1251 0.93 ○ 1906 0.42		16 0135 0.84 0913 0.34 TH 1732 0.88 2158 0.80		24 0043 0.90 0648 0.36 FR 1325 1.15 1947 0.52			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0007 0.82 0838 0.38 FR 1724 0.96 ●		9 0607 0.27 1332 1.27 SA 2010 0.66		17 0617 0.65 2045 0.86 SU		25 0026 0.81 0634 0.33 MO 1405 1.30 2051 0.69	
2 0836 0.45 2225 0.92 SA		10 0006 0.80 0624 0.21 SU 1401 1.28 2034 0.71		18 0503 0.61 1205 0.82 MO 1648 0.73 2209 0.86		26 0043 0.81 0655 0.32 TU 1433 1.28 2121 0.72	
3 0806 0.52 2308 0.93 SU		11 0025 0.82 0650 0.18 MO 1431 1.26 2058 0.74		19 0501 0.56 1149 0.92 TU 1743 0.69 2249 0.86		27 0058 0.81 0718 0.33 WE 1505 1.24 2157 0.75	
4 0638 0.56 1245 0.74 MO 1708 0.65 2327 0.91		12 0045 0.85 0721 0.20 TU 1503 1.20 2124 0.75		20 0513 0.51 1203 1.03 WE 1821 0.65 2317 0.85		28 0109 0.80 0744 0.35 TH 1538 1.18 2242 0.78	
5 0603 0.55 1211 0.85 TU 1802 0.59 2340 0.86		13 0107 0.86 0754 0.26 WE 1538 1.13 2153 0.76		21 0529 0.47 1224 1.12 TH 1854 0.63 2340 0.84		29 0100 0.79 0808 0.40 FR 1618 1.10	
6 0549 0.51 1217 0.99 WE 1843 0.57 2348 0.81		14 0130 0.84 0826 0.35 TH 1616 1.05 2233 0.77		22 0544 0.42 1247 1.20 FR 1923 0.62 2358 0.83		30 0830 0.47 1703 1.01 SA ●	
7 0551 0.43 1238 1.12 TH 1917 0.58 ○ 2348 0.78		15 0144 0.81 0854 0.46 FR 1701 0.97 ●		23 0600 0.39 1311 1.26 SA 1953 0.63 ●		31 0832 0.57 1809 0.92 SU	
8 0558 0.35 1304 1.21 FR 1946 0.62 2353 0.78		16 0909 0.57 1819 0.89 SA		24 0012 0.82 0617 0.35 SU 1337 1.30 2021 0.66			

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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

JUNE - 2020

Time	m	Time	m	Time	m	Time	m
1 0600 0.66 1944 0.84 MO		9 0002 0.81 0633 0.26 TU 1425 1.28 2105 0.76		17 0326 0.59 1132 0.98 WE		25 0049 0.78 0710 0.35 TH 1504 1.25 2208 0.74	
2 0430 0.63 1207 0.87 TU 1748 0.75 2109 0.78		10 0040 0.83 0710 0.30 WE 1456 1.23 2131 0.74		18 0357 0.54 1148 1.08 TH 1911 0.73 2148 0.76		26 0121 0.79 0741 0.39 FR 1533 1.19 2231 0.73	
3 0419 0.57 1147 1.00 WE 1852 0.70 2145 0.74		11 0119 0.84 0746 0.36 TH 1528 1.17 2203 0.73		19 0424 0.50 1211 1.17 FR 1939 0.70 2235 0.75		27 0200 0.79 0813 0.45 SA 1559 1.10 2257 0.71	
4 0428 0.49 1203 1.13 TH 1937 0.68 2204 0.72		12 0201 0.82 0820 0.44 FR 1600 1.10 2243 0.71		20 0451 0.45 1237 1.25 SA 2006 0.69 2306 0.74		28 0254 0.77 0844 0.55 SU 1621 1.02 2328 0.68	
5 0443 0.41 1229 1.23 FR 2014 0.69 2228 0.72		13 0246 0.79 0852 0.54 SA 1632 1.03 2337 0.69		21 0517 0.41 1305 1.30 SU 2033 0.69 2331 0.75		29 0422 0.76 0911 0.66 MO 1631 0.93	
6 0503 0.33 1258 1.29 SA 2041 0.71 2255 0.74		14 0357 0.75 0917 0.64 SU 1703 0.96		22 0545 0.38 1334 1.33 MO 2058 0.70 2355 0.76		30 0007 0.63 1531 0.87 TU	
7 0528 0.28 1327 1.32 SU 2047 0.74 2327 0.78		15 0104 0.67 1730 0.89 MO		23 0612 0.35 1404 1.33 TU 2122 0.71			
8 0559 0.26 1356 1.31 MO 2047 0.76		16 0236 0.63 1158 0.87 TU		24 0021 0.77 0640 0.34 WE 1434 1.30 2145 0.73			

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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

JULY - 2020

Time	m	Time	m	Time	m	Time	m
1 0058 0.57 1156 0.94 WE		9 0109 0.82 0719 0.36 TH 1444 1.22 2121 0.66		17 0158 0.54 1148 1.07 FR		25 0154 0.81 0756 0.41 SA 1505 1.12 2142 0.61	
2 0156 0.51 1144 1.06 TH		10 0154 0.84 0755 0.41 FR 1510 1.17 2146 0.63		18 0308 0.51 1211 1.16 SA		26 0240 0.84 0828 0.49 SU 1518 1.04 2155 0.55	
3 0252 0.45 1202 1.16 FR		11 0240 0.84 0827 0.48 SA 1534 1.11 2213 0.60		19 0406 0.47 1238 1.24 SU 2058 0.65 2212 0.65		27 0333 0.86 0858 0.59 MO 1526 0.98 2210 0.49	
4 0344 0.40 1231 1.24 SA		12 0328 0.83 0858 0.56 SU 1554 1.05 2241 0.59		20 0454 0.42 1306 1.29 MO		28 0438 0.86 0924 0.71 TU 1518 0.93 2228 0.44	
5 0432 0.35 1259 1.28 SU ○		13 0427 0.81 0926 0.66 MO 1608 0.98 2311 0.57 ●		21 0536 0.38 1334 1.31 TU ●		29 0621 0.87 0940 0.83 WE 1435 0.91 2256 0.41	
6 0517 0.32 1327 1.29 MO		14 0555 0.81 0948 0.76 TU 1605 0.92 2347 0.56		22 0615 0.35 1401 1.30 WE 2124 0.66		30 1236 0.96 2337 0.41 TH	
7 0600 0.31 1354 1.28 TU 2058 0.72		15 1434 0.89 WE		23 0036 0.74 0650 0.34 TH 1427 1.26 2126 0.67		31 1218 1.05 FR	
8 0020 0.79 0641 0.33 WE 1419 1.25 2102 0.69		16 0040 0.55 1139 0.97 TH		24 0113 0.78 0724 0.36 FR 1449 1.20 2131 0.65			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0101 0.42 1224 1.12 SA		9 0244 0.90 0834 0.48 SU 1459 1.06 2127 0.48		17 0345 0.49 1240 1.18 MO 2053 0.56 2336 0.58		25 0326 0.97 0901 0.63 TU 1429 0.92 2106 0.30	
2 0317 0.42 1239 1.18 SU		10 0321 0.90 0900 0.55 MO 1512 1.00 2145 0.46		18 0503 0.43 1303 1.23 TU 2043 0.57		26 0416 0.95 0917 0.73 WE 1417 0.91 ● 2130 0.28	
3 0448 0.39 1259 1.21 MO 2046 0.65 2319 0.67		11 0402 0.89 0924 0.64 TU 1517 0.95 2202 0.45		19 0005 0.64 0553 0.37 WE 1325 1.23 ● 2041 0.58		27 0522 0.91 0925 0.82 TH 1355 0.92 2159 0.29	
4 0543 0.36 1321 1.21 TU 2034 0.64 ○		12 0452 0.88 0945 0.73 WE 1509 0.91 ● 2218 0.45		20 0032 0.70 0633 0.34 TH 1346 1.20 2034 0.58		28 1306 0.95 2232 0.35 FR	
5 0013 0.74 0626 0.34 WE 1342 1.21 2026 0.61		13 0613 0.87 0952 0.82 TH 1420 0.89 2237 0.46		21 0100 0.78 0710 0.34 FR 1403 1.14 2032 0.55		29 1230 1.00 2315 0.43 SA	
6 0054 0.80 0703 0.35 TH 1402 1.19 2034 0.58		14 1216 0.93 2301 0.48 FR		22 0131 0.85 0743 0.37 SA 1415 1.07 2037 0.51		30 1230 1.04 SU	
7 0131 0.85 0736 0.37 FR 1422 1.15 2051 0.54		15 1204 1.03 2338 0.50 SA		23 0206 0.91 0813 0.44 SU 1421 1.00 2044 0.44		31 0411 0.47 1233 1.07 MO 2010 0.57 2334 0.63	
8 0208 0.88 0806 0.42 SA 1441 1.11 2109 0.51		16 1219 1.11 SU		24 0244 0.95 0840 0.53 MO 1427 0.95 2051 0.36			

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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

SEPTEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0520 0.42 1245 1.10 TU 1949 0.56		9 0330 0.98 0919 0.62 WE 1430 0.88 2101 0.35		17 0019 0.69 0607 0.38 ● TH 1301 1.10 1937 0.50		25 0435 0.93 0912 0.78 FR 1322 0.88 2114 0.26	
2 0007 0.72 0603 0.38 WE 1302 1.11 ○ 1939 0.53		10 0404 0.95 0937 0.70 TH 1421 0.85 ● 2116 0.35		18 0039 0.80 0645 0.35 FR 1315 1.04 1932 0.47		26 0600 0.84 0850 0.82 SA 1251 0.88 2137 0.36	
3 0035 0.80 0638 0.36 TH 1318 1.10 1941 0.49		11 0449 0.91 0946 0.78 FR 1342 0.84 2131 0.37		19 0103 0.90 0719 0.37 SA 1324 0.97 1935 0.42		27 1213 0.90 2120 0.47 SU	
4 0103 0.87 0710 0.35 FR 1334 1.08 1954 0.45		12 1217 0.89 2138 0.41 SA		20 0130 0.99 0751 0.42 SU 1327 0.90 1938 0.34		28 1203 0.93 MO *	
5 0132 0.93 0739 0.38 SA 1351 1.05 2008 0.41		13 1158 0.97 2124 0.44 SU		21 0200 1.06 0819 0.49 MO 1330 0.87 1941 0.25		29 0447 0.51 1202 0.95 TU 1858 0.52 * 2353 0.71	
6 0201 0.97 0807 0.42 SU 1406 1.00 2022 0.38		14 1210 1.05 2045 0.48 MO		22 0233 1.08 0843 0.58 TU 1335 0.86 1955 0.19		30 0534 0.46 1213 0.97 WE 1845 0.48	
7 0230 0.99 0833 0.48 MO 1419 0.96 2034 0.36		15 0116 0.55 0417 0.52 TU 1228 1.10 2001 0.50		23 0309 1.07 0859 0.66 WE 1335 0.86 2019 0.16			
8 0300 0.99 0857 0.55 TU 1427 0.92 2047 0.35		16 0014 0.60 0524 0.44 WE 1245 1.12 1949 0.51		24 0348 1.01 0906 0.73 TH 1331 0.87 ● 2046 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

OCTOBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0012 0.81 0609 0.41 TH 1228 0.98 1845 0.43		9 0332 1.03 0939 0.68 FR 1340 0.78 2029 0.30		17 0033 0.95 0653 0.41 SA 1231 0.84 ● 1832 0.36		25 0454 0.85 0936 0.76 SU 1226 0.78 2053 0.42	
2 0034 0.90 0640 0.39 FR 1244 0.97 ○ 1855 0.39		10 0408 0.97 0956 0.75 SA 1257 0.79 ● 2041 0.33		18 0056 1.06 0726 0.44 SU 1232 0.78 1835 0.28		26 1114 0.78 1945 0.52 MO	
3 0057 0.98 0709 0.39 SA 1259 0.95 1909 0.35		11 0504 0.89 2039 0.38 SU		19 0122 1.14 0756 0.50 MO 1233 0.76 1838 0.20		27 1047 0.80 1806 0.51 TU	
4 0122 1.04 0738 0.41 SU 1315 0.92 1921 0.32		12 1119 0.91 2020 0.43 MO		20 0149 1.18 0822 0.57 TU 1239 0.76 1852 0.13		28 1105 0.82 1744 0.47 WE 2351 0.81 *	
5 0147 1.08 0805 0.45 MO 1328 0.88 1932 0.29		13 1138 0.96 1920 0.46 TU		21 0220 1.18 0845 0.64 WE 1247 0.79 1916 0.10		29 0540 0.52 1126 0.84 TH 1744 0.41	
6 0211 1.10 0830 0.50 TU 1337 0.85 1942 0.28		14 0057 0.62 0446 0.55 WE 1156 0.98 1855 0.47		22 0251 1.13 0903 0.69 TH 1253 0.81 1944 0.12		30 0004 0.91 0612 0.48 FR 1146 0.84 1755 0.37	
7 0236 1.10 0854 0.55 WE 1345 0.82 1956 0.27		15 0017 0.70 0537 0.47 TH 1211 0.96 1838 0.46		23 0326 1.05 0914 0.72 FR 1300 0.82 ● 2014 0.19		31 0024 1.01 0643 0.46 SA 1205 0.83 1809 0.32	
8 0302 1.07 0917 0.61 TH 1349 0.80 2013 0.28		16 0016 0.82 0617 0.42 FR 1223 0.91 1831 0.43		24 0405 0.96 0921 0.74 SA 1302 0.80 2041 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

NOVEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0046 1.08 0711 0.46 SU 1223 0.81 ○ 1822 0.29		9 0439 0.92 2004 0.40 MO		17 0116 1.24 0818 0.58 TU 1139 0.66 1755 0.12		25 0657 0.74 1621 0.50 WE	
2 0109 1.14 0739 0.47 MO 1238 0.79 1834 0.26		10 0701 0.83 1919 0.46 TU		18 0144 1.25 0835 0.63 WE 1155 0.69 1821 0.08		26 0003 0.76 1629 0.44 TH 2342 0.86 *	
3 0132 1.18 0806 0.50 TU 1249 0.77 1846 0.24		11 1030 0.83 1803 0.48 WE		19 0213 1.21 0854 0.66 TH 1214 0.73 1852 0.10		27 0602 0.61 1017 0.70 FR 1647 0.39 2354 0.97	
4 0156 1.19 0832 0.54 WE 1259 0.75 1902 0.23		12 0031 0.70 0503 0.60 TH 1101 0.81 1734 0.47		20 0243 1.15 0915 0.68 FR 1237 0.75 1925 0.15		28 0634 0.56 1054 0.70 SA 1705 0.34	
5 0220 1.17 0858 0.58 TH 1311 0.74 1920 0.23		13 0002 0.82 0557 0.54 FR 1120 0.76 1725 0.42		21 0315 1.07 0941 0.67 SA 1304 0.74 1957 0.24		29 0014 1.06 0704 0.53 SU 1122 0.69 1722 0.31	
6 0246 1.14 0927 0.62 FR 1318 0.73 1939 0.25		14 0005 0.95 0640 0.50 SA 1129 0.70 1726 0.35		22 0349 0.98 1016 0.66 SU 1330 0.71 ○ 2026 0.36		30 0036 1.14 0730 0.52 MO 1144 0.68 ○ 1739 0.27	
7 0317 1.08 1001 0.67 SA 1309 0.72 1958 0.28		15 0024 1.08 0720 0.50 SU 1129 0.66 ● 1732 0.27		23 0424 0.89 1124 0.65 MO 1318 0.66 2039 0.48			
8 0352 1.01 1059 0.72 SU 1205 0.72 ● 2010 0.33		16 0049 1.18 0754 0.53 MO 1129 0.64 1739 0.18		24 0506 0.81 1735 0.56 TU			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0100 1.20 0756 0.52 TU 1201 0.67 1757 0.24		9 0456 0.84 1758 0.54 WE		17 0146 1.23 1812 0.12 TH		25 0112 0.77 1416 0.44 FR 2347 0.86	
2 0125 1.22 0821 0.54 WE 1216 0.67 1816 0.22		10 0507 0.74 1557 0.51 TH		18 0213 1.19 0911 0.63 FR 1221 0.68 1849 0.15		26 1517 0.40 2353 0.97 SA	
3 0151 1.23 0847 0.56 TH 1232 0.67 1838 0.21		11 0015 0.77 1549 0.45 FR 2353 0.90		19 0240 1.14 0924 0.61 SA 1308 0.69 1925 0.21		27 1600 0.36 SU	
4 0217 1.21 0914 0.58 FR 1250 0.67 1902 0.22		12 1557 0.38 2359 1.03 SA		20 0307 1.08 0947 0.57 SU 1356 0.69 2001 0.29		28 0012 1.06 0810 0.55 MO 1011 0.56 1635 0.32	
5 0246 1.17 0945 0.61 SA 1309 0.67 1926 0.24		13 0813 0.54 0910 0.54 SU 1614 0.30		21 0336 1.01 1018 0.54 MO 1450 0.67 2033 0.40		29 0035 1.14 0826 0.53 TU 1105 0.56 1706 0.28	
6 0317 1.11 1023 0.63 SU 1321 0.66 1950 0.29		14 0022 1.14 0850 0.53 MO 0942 0.53 1636 0.22		22 0400 0.94 1056 0.51 TU 1601 0.64 2058 0.51		30 0100 1.19 0845 0.52 WE 1137 0.58 1737 0.25	
7 0349 1.03 1120 0.64 MO 1306 0.64 2010 0.36		15 0050 1.21 1703 0.16 TU		23 0418 0.86 1144 0.49 WE		31 0127 1.22 0902 0.53 TH 1203 0.59 1807 0.22	
8 0423 0.94 2011 0.45 TU		16 0118 1.24 1736 0.12 WE		24 0416 0.80 1254 0.47 TH			

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Western Port (Stony Point)

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

Location	Time diff (earlier) later HM	Rise of tide			
		MHHW metres	MLHW metres	MHLW metres	MLLW metres
<i>Fairway Buoy</i>	<i>(1 00)</i>	<i>2.5</i>	<i>1.8</i>	<i>1.2</i>	<i>0.5</i>
<i>Flinders Pier</i>	<i>(0 55)</i>	<i>2.5</i>	<i>1.8</i>	<i>1.2</i>	<i>0.5</i>
<i>No. 11 Buoy</i>	<i>(0 30)</i>	<i>2.7</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
<i>Newhaven Pier</i>	<i>(0 25)</i>	<i>2.5</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
<i>Cowes Pier</i>	<i>(0 10)</i>	<i>2.7</i>	<i>2.0</i>	<i>1.2</i>	<i>0.5</i>
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 (1981-2016)	3.69
1.62	Highest Astronomical Tide (HAT)	3.31
1.15	Mean High Water Springs (MHWS)	2.84
0.70	Mean High Water Neaps (MHWN)	2.39
0.000	Australian Height Datum	1.690
-0.63	Mean Low Water Neaps (MLWN)	1.06
-1.08	Mean Low Water Springs (MLWS)	0.61
-1.690	Chart & Prediction Datum	0.000
	Lowest Astronomical Tide (LAT)	
-1.99	Lowest recorded tide 17/05/1991 (1981-2016)	-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

JANUARY - 2020

Time	m	Time	m	Time	m	Time	m
1 0502 2.96 1051 0.84 WE 1655 2.54 2244 0.62		9 0403 1.42 1004 2.34 TH 1618 0.67 2352 2.65		17 0538 3.04 1126 0.53 FR 1759 2.79 ● 2334 0.55		25 0059 2.81 0632 1.21 SA 1234 2.39 ● 1837 0.54	
2 0533 2.89 1126 0.82 TH 1734 2.50 2319 0.74		10 0515 1.41 1113 2.33 FR 1723 0.59		18 0617 2.96 1210 0.44 SA 1853 2.77		26 0155 2.87 0734 1.11 SU 1336 2.43 1934 0.53	
3 0602 2.81 1159 0.81 FR 1815 2.47 ● 2355 0.85		11 0055 2.80 0624 1.33 SA 1222 2.39 ○ 1825 0.49		19 0023 0.70 0655 2.87 SU 1254 0.40 1949 2.74		27 0245 2.92 0828 1.01 MO 1430 2.48 2024 0.54	
4 0630 2.73 1231 0.79 SA 1857 2.43		12 0151 2.94 0725 1.22 SU 1326 2.48 1923 0.40		20 0112 0.86 0735 2.76 MO 1340 0.40 2047 2.71		28 0328 2.94 0913 0.92 TU 1518 2.53 2108 0.57	
5 0031 0.97 0701 2.65 SU 1305 0.77 1944 2.41		13 0244 3.05 0818 1.08 MO 1424 2.58 2016 0.33		21 0203 1.02 0820 2.64 TU 1429 0.43 2147 2.69		29 0404 2.93 0952 0.84 WE 1600 2.57 2148 0.62	
6 0113 1.11 0735 2.56 MO 1343 0.76 2037 2.41		14 0331 3.10 0908 0.93 TU 1519 2.67 2107 0.32		22 0302 1.16 0913 2.53 WE 1525 0.48 2251 2.70		30 0436 2.89 1027 0.78 TH 1640 2.58 2225 0.68	
7 0200 1.24 0815 2.47 TU 1426 0.75 2138 2.45		15 0416 3.12 0956 0.78 WE 1613 2.73 2158 0.35		23 0409 1.24 1015 2.43 TH 1628 0.52 2356 2.74		31 0505 2.85 1059 0.72 FR 1717 2.59 2259 0.75	
8 0257 1.35 0904 2.39 WE 1517 0.72 2245 2.53		16 0459 3.09 1042 0.64 TH 1705 2.77 2246 0.43		24 0521 1.26 1125 2.38 FR 1734 0.54			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0531 2.81 1130 0.67 SA 1754 2.60 2332 0.83		9 0015 2.68 0539 1.35 SU 1145 2.36 ○ 1750 0.55		17 0012 0.71 0635 2.86 MO 1235 0.24 1935 2.88		25 0216 2.74 0802 1.01 TU 1417 2.46 2008 0.71	
2 0559 2.76 1200 0.63 SU 1832 2.59 ●		10 0120 2.81 0651 1.21 MO 1302 2.47 1900 0.47		18 0058 0.86 0714 2.75 TU 1317 0.31 2026 2.78		26 0259 2.79 0845 0.89 WE 1505 2.56 2052 0.71	
3 0008 0.92 0628 2.70 MO 1232 0.60 1915 2.57		11 0217 2.93 0753 1.01 TU 1411 2.62 2000 0.41		19 0145 1.00 0756 2.62 WE 1402 0.42 2119 2.68		27 0334 2.80 0923 0.78 TH 1545 2.64 2130 0.73	
4 0045 1.03 0700 2.62 TU 1305 0.60 2000 2.55		12 0309 3.02 0847 0.80 WE 1512 2.76 2056 0.39		20 0236 1.13 0845 2.48 TH 1454 0.55 2217 2.61		28 0405 2.80 0957 0.69 FR 1623 2.70 2205 0.76	
5 0126 1.15 0736 2.53 WE 1343 0.60 2053 2.53		13 0356 3.06 0937 0.59 TH 1609 2.88 2148 0.41		21 0336 1.23 0944 2.36 FR 1555 0.67 2321 2.58		29 0433 2.79 1028 0.61 SA 1659 2.75 2239 0.80	
6 0213 1.27 0819 2.44 TH 1429 0.61 2155 2.54		14 0438 3.06 1024 0.42 FR 1702 2.96 2238 0.48		22 0447 1.27 1056 2.29 SA 1705 0.74			
7 0310 1.36 0915 2.37 FR 1526 0.62 2304 2.58		15 0518 3.02 1109 0.29 SA 1754 2.98 2326 0.58		23 0026 2.61 0601 1.23 SU 1212 2.29 1815 0.75			
8 0420 1.40 1026 2.33 SA 1636 0.60		16 0558 2.96 1152 0.23 SU 1845 2.95 ●		24 0126 2.68 0708 1.13 MO 1320 2.36 ● 1916 0.73			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0500 2.77 SU 1059 0.55 1733 2.77 2312 0.84		9 0500 1.27 1122 2.39 MO 1722 0.67		17 0613 2.82 1211 0.22 TU 1914 2.97		25 0138 2.59 0728 0.97 WE 1400 2.52 1948 0.92	
2 0528 2.75 1129 0.51 MO 1809 2.77 2345 0.91		10 0044 2.71 0618 1.10 TU 1247 2.54 ○ 1839 0.63		18 0040 0.88 0652 2.70 WE 1252 0.35 1959 2.83		26 0221 2.65 0810 0.84 TH 1446 2.67 2032 0.90	
3 0558 2.70 1200 0.50 TU 1847 2.74 ●		11 0145 2.82 0726 0.86 WE 1400 2.74 1945 0.57		19 0124 1.00 0733 2.57 TH 1335 0.52 2045 2.68		27 0257 2.69 0846 0.72 FR 1526 2.78 2110 0.89	
4 0020 0.99 0630 2.63 WE 1232 0.51 1929 2.69		12 0240 2.92 0822 0.61 TH 1504 2.93 2044 0.55		20 0211 1.12 0820 2.42 FR 1423 0.69 2139 2.56		28 0329 2.72 0920 0.62 SA 1602 2.87 2145 0.88	
5 0058 1.10 0704 2.55 TH 1307 0.53 2015 2.63		13 0329 2.97 0914 0.39 FR 1600 3.08 2137 0.55		21 0306 1.21 0918 2.30 SA 1521 0.85 2240 2.49		29 0359 2.73 0953 0.54 SU 1637 2.93 2217 0.89	
6 0140 1.20 0745 2.47 FR 1350 0.56 2112 2.58		14 0413 2.98 1000 0.23 SA 1653 3.15 2226 0.60		22 0414 1.25 1032 2.23 SU 1634 0.96 2345 2.48		30 0428 2.73 1025 0.49 MO 1712 2.95 2250 0.91	
7 0231 1.28 0839 2.39 SA 1446 0.62 2219 2.56		15 0454 2.96 1045 0.15 SU 1742 3.16 2313 0.67		23 0528 1.22 1154 2.26 MO 1750 0.99		31 0459 2.71 1058 0.47 TU 1747 2.93 2324 0.96	
8 0339 1.32 0954 2.35 SU 1559 0.67 2333 2.61		16 0534 2.91 1129 0.14 MO 1829 3.09 ● 2357 0.76		24 0046 2.52 0634 1.11 TU 1304 2.37 ● 1856 0.96			

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WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

APRIL - 2020

Time	m	Time	m	Time	m	Time	m
1 0530 2.67 1130 0.47 WE 1824 2.88 ☉ 2359 1.02		9 0108 2.75 0656 0.68 TH 1349 2.92 1930 0.80		17 0102 1.02 0712 2.52 FR 1307 0.68 2011 2.70		25 0212 2.60 0805 0.68 SA 1500 2.94 2044 1.06	
2 0603 2.61 1202 0.50 TH 1902 2.81		10 0205 2.82 0754 0.45 FR 1452 3.12 2030 0.76		18 0147 1.11 0800 2.39 SA 1353 0.87 2057 2.57		26 0248 2.65 0842 0.58 SU 1538 3.03 2119 1.03	
3 0035 1.10 0639 2.54 FR 1239 0.54 1945 2.73		11 0256 2.88 0845 0.27 SA 1547 3.25 2122 0.75		19 0238 1.18 0859 2.28 SU 1448 1.04 2151 2.47		27 0323 2.68 0917 0.52 MO 1615 3.08 2154 1.02	
4 0115 1.16 0722 2.48 SA 1323 0.61 2036 2.65		12 0343 2.89 0933 0.17 SU 1637 3.29 2210 0.76		20 0341 1.21 1013 2.24 MO 1600 1.17 2253 2.42		28 0357 2.69 0952 0.49 TU 1651 3.08 2229 1.02	
5 0205 1.20 0820 2.42 SU 1419 0.70 2139 2.60		13 0426 2.88 1019 0.15 MO 1724 3.26 2256 0.79		21 0448 1.17 1132 2.30 TU 1717 1.22 2354 2.43		29 0431 2.67 1028 0.48 WE 1728 3.05 2304 1.04	
6 0310 1.20 0940 2.41 MO 1532 0.81 2251 2.60		14 0508 2.84 1102 0.20 TU 1807 3.16 2339 0.85		22 0551 1.07 1240 2.45 WE 1825 1.20		30 0507 2.64 1103 0.50 TH 1803 2.99 2341 1.08	
7 0429 1.11 1111 2.49 TU 1659 0.86		15 0548 2.76 1145 0.33 WE 1849 3.02 ☉		23 0048 2.48 0643 0.94 TH 1334 2.63 ● 1920 1.15			
8 0003 2.66 0548 0.92 WE 1236 2.68 ☉ 1821 0.85		16 0021 0.93 0629 2.65 TH 1226 0.50 1930 2.86		24 0133 2.54 0727 0.80 FR 1420 2.80 2005 1.10			

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WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

MAY - 2020

Time	m	Time	m	Time	m	Time	m
1 0544 2.60 1139 0.55 FR 1842 2.90 ●		9 0129 2.75 0724 0.36 SA 1434 3.24 2011 0.98		17 0123 1.09 0741 2.39 SU 1323 1.02 2015 2.63		25 0208 2.60 0803 0.58 MO 1513 3.12 2051 1.17	
2 0017 1.11 0624 2.55 SA 1219 0.62 1922 2.82		10 0223 2.80 0817 0.26 SU 1529 3.33 2103 0.94		18 0209 1.13 0838 2.32 MO 1414 1.19 2059 2.52		26 0249 2.64 0843 0.52 TU 1553 3.16 2130 1.13	
3 0059 1.12 0714 2.50 SU 1305 0.72 2009 2.74		11 0312 2.82 0906 0.22 MO 1617 3.33 2151 0.92		19 0301 1.13 0945 2.31 TU 1517 1.32 2149 2.44		27 0330 2.66 0923 0.50 WE 1632 3.15 2208 1.11	
4 0148 1.09 0818 2.48 MO 1402 0.85 2105 2.67		12 0358 2.80 0952 0.26 TU 1702 3.27 2236 0.92		20 0400 1.10 1059 2.38 WE 1631 1.40 2247 2.41		28 0409 2.66 1002 0.51 TH 1710 3.11 2247 1.09	
5 0251 1.03 0939 2.51 TU 1515 0.99 2211 2.64		13 0442 2.77 1036 0.35 WE 1744 3.16 2319 0.95		21 0459 1.01 1204 2.53 TH 1741 1.40 2345 2.42		29 0450 2.65 1043 0.55 FR 1747 3.05 2326 1.07	
6 0403 0.91 1105 2.64 WE 1639 1.07 2321 2.65		14 0525 2.70 1119 0.50 TH 1823 3.03		22 0552 0.90 1259 2.71 FR 1840 1.36		30 0532 2.62 1124 0.61 SA 1825 2.97 ●	
7 0518 0.73 1225 2.85 TH 1801 1.07 ○		15 0001 0.99 0608 2.60 FR 1200 0.66 ● 1900 2.89		23 0037 2.47 0639 0.78 SA 1347 2.89 ● 1929 1.29		31 0006 1.05 0620 2.59 SU 1207 0.71 1903 2.89	
8 0028 2.70 0625 0.53 FR 1334 3.07 1912 1.03		16 0042 1.04 0652 2.49 SA 1241 0.84 1936 2.75		24 0124 2.54 0722 0.66 SU 1430 3.03 2012 1.23			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0049 1.00 0716 2.57 MO 1257 0.84 1946 2.82		9 0244 2.74 0841 0.35 TU 1556 3.27 2131 1.03		17 0218 1.01 0909 2.41 WE 1431 1.38 2049 2.51		25 0307 2.66 0859 0.50 TH 1614 3.16 2148 1.11	
2 0138 0.93 0823 2.58 TU 1354 1.00 2036 2.75		10 0333 2.73 0928 0.41 WE 1640 3.21 2216 1.00		18 0306 0.98 1013 2.47 TH 1534 1.48 2139 2.45		26 0354 2.69 0944 0.51 FR 1653 3.13 2231 1.03	
3 0235 0.83 0939 2.65 WE 1501 1.14 2136 2.69		11 0419 2.71 1013 0.51 TH 1719 3.12 2300 0.99		19 0400 0.93 1116 2.58 FR 1643 1.52 2236 2.42		27 0441 2.70 1029 0.56 SA 1731 3.08 2314 0.95	
4 0340 0.72 1056 2.78 TH 1619 1.23 2242 2.66		12 0504 2.65 1055 0.64 FR 1755 3.02 2340 1.00		20 0456 0.86 1215 2.73 SA 1747 1.50 2337 2.44		28 0530 2.70 1115 0.65 SU 1808 3.02 2357 0.86	
5 0448 0.59 1208 2.96 FR 1738 1.25 2349 2.66		13 0548 2.57 1135 0.79 SA 1829 2.90 ●		21 0549 0.76 1310 2.88 SU 1845 1.43 ●		29 0624 2.69 1201 0.78 MO 1845 2.94	
6 0555 0.47 1315 3.12 SA 1848 1.21 ○		14 0018 1.01 0632 2.50 SU 1215 0.95 1900 2.79		22 0035 2.49 0640 0.66 MO 1400 3.02 1935 1.35		30 0041 0.78 0722 2.69 TU 1251 0.93 1926 2.86	
7 0053 2.69 0655 0.38 SU 1414 3.24 1949 1.14		15 0056 1.02 0719 2.43 MO 1254 1.10 1932 2.69		23 0129 2.56 0727 0.58 TU 1446 3.11 2022 1.26			
8 0151 2.72 0750 0.34 MO 1507 3.29 2043 1.08		16 0135 1.02 0811 2.40 TU 1339 1.24 2008 2.59		24 0219 2.62 0814 0.52 WE 1531 3.16 2106 1.19			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0128 0.70 0825 2.71 WE 1345 1.08 2012 2.78		9 0315 2.66 0908 0.54 TH 1615 3.11 2157 1.01		17 0215 0.84 0923 2.53 FR 1441 1.45 2045 2.49		25 0345 2.76 0930 0.51 SA 1633 3.12 2215 0.83	
2 0218 0.64 0931 2.76 TH 1446 1.22 2105 2.70		10 0401 2.65 0952 0.63 FR 1653 3.05 2238 0.97		18 0302 0.83 1024 2.59 SA 1541 1.52 2139 2.44		26 0437 2.81 1018 0.57 SU 1712 3.08 2259 0.70	
3 0316 0.58 1040 2.84 FR 1556 1.32 2207 2.64		11 0446 2.62 1033 0.74 SA 1726 2.97 2315 0.94		19 0357 0.80 1128 2.68 SU 1648 1.54 2243 2.42		27 0530 2.84 1107 0.67 MO 1749 3.03 2343 0.59	
4 0420 0.54 1147 2.93 SA 1711 1.35 2315 2.61		12 0529 2.59 1112 0.85 SU 1756 2.89 2350 0.91		20 0458 0.74 1230 2.80 MO 1756 1.49 2350 2.45		28 0625 2.84 1155 0.79 TU 1827 2.95	
5 0526 0.50 1252 3.03 SU 1823 1.31 ○		13 0611 2.55 1148 0.97 MO 1824 2.81 ●		21 0559 0.66 1327 2.93 TU 1858 1.39 ●		29 0027 0.52 0719 2.83 WE 1244 0.94 1905 2.86	
6 0022 2.61 0630 0.47 MO 1351 3.11 1927 1.23		14 0024 0.89 0653 2.53 TU 1225 1.09 1852 2.74		22 0055 2.52 0656 0.58 WE 1419 3.03 1952 1.27		30 0112 0.49 0816 2.81 TH 1333 1.10 1948 2.76	
7 0125 2.63 0727 0.46 TU 1445 3.15 2023 1.15		15 0058 0.86 0737 2.51 WE 1304 1.21 1923 2.66		23 0155 2.61 0749 0.52 TH 1507 3.10 2042 1.12		31 0159 0.50 0915 2.79 FR 1428 1.23 2039 2.66	
8 0222 2.65 0819 0.49 WE 1533 3.15 2112 1.07		16 0134 0.85 0828 2.51 TH 1349 1.33 2000 2.57		24 0251 2.69 0840 0.49 FR 1552 3.13 2129 0.98			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0252 0.53 1017 2.78 SA 1530 1.33 2139 2.57		9 0430 2.66 1014 0.78 SU 1653 2.90 2245 0.81		17 0304 0.75 1038 2.60 MO 1553 1.50 2158 2.39		25 0525 3.02 1058 0.67 TU 1727 2.99 2323 0.33	
2 0353 0.58 1122 2.81 SU 1643 1.37 2247 2.51		10 0508 2.66 1048 0.86 MO 1720 2.85 2317 0.76		18 0410 0.74 1146 2.68 TU 1708 1.46 2314 2.41		26 0616 3.00 1145 0.79 WE 1805 2.91 ●	
3 0500 0.60 1227 2.86 MO 1757 1.33		11 0545 2.66 1123 0.94 TU 1745 2.80 2348 0.72		19 0521 0.69 1251 2.79 WE 1820 1.33 ●		27 0007 0.32 0707 2.94 TH 1230 0.93 1845 2.81	
4 0000 2.50 0608 0.61 TU 1328 2.92 ○ 1904 1.24		12 0623 2.65 1157 1.03 WE 1814 2.74 ●		20 0030 2.51 0629 0.61 TH 1348 2.91 1923 1.15		28 0051 0.37 0759 2.85 FR 1317 1.07 1927 2.70	
5 0108 2.53 0709 0.60 WE 1422 2.98 2002 1.12		13 0020 0.70 0702 2.64 TH 1233 1.13 1845 2.68		21 0138 2.64 0730 0.55 FR 1439 3.01 2017 0.94		29 0136 0.46 0852 2.75 SA 1407 1.19 2016 2.57	
6 0208 2.58 0803 0.61 TH 1509 3.00 2051 1.02		14 0053 0.70 0746 2.61 FR 1312 1.24 1919 2.59		22 0240 2.78 0826 0.52 SA 1526 3.05 2106 0.73		30 0227 0.58 0949 2.67 SU 1506 1.29 2116 2.46	
7 0301 2.62 0851 0.65 FR 1549 2.99 2133 0.93		15 0130 0.71 0835 2.58 SA 1356 1.35 2000 2.51		23 0337 2.90 0918 0.53 SU 1608 3.06 2153 0.55		31 0328 0.69 1053 2.64 MO 1616 1.33 2229 2.39	
8 0347 2.65 0934 0.71 SA 1623 2.95 2211 0.86		16 0212 0.73 0932 2.57 SU 1448 1.45 2052 2.43		24 0431 2.98 1009 0.59 MO 1648 3.04 2239 0.41			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0438 0.77 TU 1159 2.66 1732 1.29 2346 2.39		9 0518 2.80 1058 0.91 WE 1711 2.76 2313 0.57		17 0450 0.77 1211 2.67 TH 1746 1.17 ●		25 0648 3.00 1215 0.90 FR 1824 2.74	
2 0550 0.78 1300 2.72 WE 1842 1.17 ○		10 0553 2.80 1130 0.97 TH 1740 2.72 ● 2344 0.57		18 0015 2.55 0608 0.71 FR 1313 2.79 1853 0.94		26 0028 0.36 0735 2.86 SA 1300 1.02 1908 2.61	
3 0058 2.46 0655 0.76 TH 1355 2.79 1939 1.04		11 0630 2.76 1205 1.05 FR 1811 2.65		19 0127 2.75 0715 0.65 SA 1407 2.89 1950 0.68		27 0112 0.52 0824 2.71 SU 1346 1.13 1959 2.47	
4 0159 2.56 0749 0.74 FR 1440 2.83 2025 0.91		12 0016 0.59 0711 2.70 SA 1241 1.15 1845 2.57		20 0230 2.94 0814 0.61 SU 1455 2.95 2041 0.46		28 0201 0.70 0917 2.58 MO 1442 1.21 2100 2.35	
5 0248 2.65 0836 0.75 SA 1517 2.85 2104 0.80		13 0050 0.63 0756 2.63 SU 1320 1.25 1926 2.48		21 0328 3.09 0907 0.61 MO 1540 2.97 2129 0.29		29 0301 0.86 1017 2.50 TU 1550 1.25 2217 2.30	
6 0331 2.72 0916 0.78 SU 1549 2.84 2138 0.72		14 0130 0.67 0848 2.57 MO 1407 1.34 2016 2.41		22 0421 3.17 0957 0.64 TU 1621 2.96 2215 0.19		30 0415 0.96 1123 2.49 WE 1706 1.20 2337 2.33	
7 0409 2.76 0952 0.82 MO 1616 2.82 2210 0.65		15 0222 0.72 0951 2.54 TU 1509 1.38 2127 2.37		23 0512 3.18 1044 0.70 WE 1702 2.92 2300 0.17			
8 0445 2.79 1025 0.86 TU 1644 2.79 2242 0.60		16 0330 0.77 1101 2.58 WE 1627 1.33 2251 2.41		24 0600 3.12 1130 0.79 TH 1743 2.85 ● 2344 0.23			

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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 - 2020

Time	m	Time	m	Time	m	Time	m
1 0531 0.98 1225 2.54 TH 1813 1.08		9 0527 2.93 1107 0.95 FR 1711 2.67 2310 0.50		17 0003 2.65 0547 0.88 SA 1232 2.68 ● 1821 0.69		25 0003 0.44 0709 2.86 SU 1242 0.96 1852 2.53	
2 0047 2.45 0637 0.94 FR 1318 2.60 ○ 1907 0.93		10 0602 2.87 1140 1.01 SA 1744 2.60 ● 2343 0.54		18 0115 2.90 0659 0.82 SU 1330 2.76 1920 0.45		26 0047 0.64 0752 2.69 MO 1328 1.04 1945 2.39	
3 0144 2.60 0731 0.90 SA 1402 2.66 1950 0.79		11 0641 2.78 1215 1.09 SU 1819 2.52		19 0218 3.11 0759 0.76 MO 1422 2.83 2014 0.25		27 0136 0.84 0840 2.55 TU 1419 1.11 2048 2.29	
4 0230 2.74 0816 0.87 SU 1439 2.69 2028 0.67		12 0018 0.60 0722 2.69 MO 1252 1.15 1900 2.45		20 0315 3.25 0852 0.73 TU 1510 2.87 2102 0.13		28 0233 1.01 0933 2.45 WE 1521 1.13 2204 2.26	
5 0310 2.84 0855 0.86 MO 1510 2.71 2101 0.58		13 0100 0.67 0811 2.60 TU 1338 1.20 1955 2.39		21 0406 3.30 0942 0.73 WE 1555 2.87 2149 0.09		29 0345 1.13 1034 2.39 TH 1630 1.08 2321 2.33	
6 0345 2.91 0930 0.87 TU 1540 2.73 2134 0.52		14 0151 0.76 0908 2.55 WE 1437 1.20 2111 2.37		22 0455 3.27 1029 0.76 TH 1638 2.84 2235 0.14		30 0502 1.17 1135 2.39 FR 1732 0.98	
7 0419 2.95 1001 0.88 WE 1609 2.73 2206 0.48		15 0300 0.85 1016 2.54 TH 1552 1.12 2239 2.46		23 0541 3.17 1114 0.81 FR 1721 2.77 ● 2319 0.26		31 0027 2.48 0611 1.14 SA 1230 2.43 1825 0.84	
8 0453 2.96 1034 0.90 TH 1639 2.71 2238 0.48		16 0424 0.90 1127 2.59 FR 1712 0.94		24 0626 3.03 1158 0.88 SA 1805 2.66			

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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

NOVEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0120 2.66 0706 1.09 SU 1315 2.49 ○ 1909 0.71		9 0617 2.86 1156 1.03 MO 1802 2.50 2355 0.60		17 0202 3.19 0741 0.94 TU 1349 2.71 1946 0.16		25 0111 0.92 0800 2.58 WE 1353 0.97 2030 2.30	
2 0204 2.82 0751 1.03 MO 1355 2.55 1947 0.59		10 0656 2.76 1234 1.04 TU 1848 2.44		18 0258 3.30 0835 0.88 WE 1442 2.76 2037 0.10		26 0202 1.10 0843 2.46 TH 1445 0.98 2139 2.29	
3 0244 2.95 0830 0.98 TU 1430 2.60 2024 0.50		11 0038 0.70 0740 2.67 WE 1319 1.02 1948 2.41		19 0349 3.32 0926 0.84 TH 1530 2.77 2126 0.12		27 0305 1.24 0932 2.37 FR 1542 0.95 2248 2.36	
4 0320 3.04 0905 0.95 WE 1505 2.64 2059 0.44		12 0132 0.82 0830 2.60 TH 1415 0.97 2105 2.43		20 0436 3.27 1013 0.82 FR 1617 2.75 2213 0.21		28 0416 1.31 1029 2.32 SA 1640 0.89 2351 2.50	
5 0356 3.07 0939 0.94 TH 1539 2.66 2133 0.42		13 0240 0.96 0932 2.55 FR 1524 0.86 2230 2.56		21 0521 3.16 1058 0.82 SA 1703 2.70 2258 0.35		29 0527 1.32 1126 2.31 SU 1734 0.79	
6 0430 3.06 1012 0.94 FR 1613 2.65 2208 0.43		14 0400 1.05 1041 2.55 SA 1638 0.70 2350 2.77		22 0602 3.03 1142 0.84 SU 1750 2.60 ○ 2342 0.53		30 0045 2.67 0626 1.27 MO 1219 2.35 ○ 1823 0.67	
7 0506 3.02 1046 0.96 SA 1647 2.61 2242 0.47		15 0524 1.06 1149 2.59 SU 1748 0.49 ●		23 0642 2.87 1224 0.88 MO 1838 2.49			
8 0541 2.94 1120 0.99 SU 1723 2.56 ● 2317 0.53		16 0100 3.00 0638 1.01 MO 1252 2.65 1850 0.30		24 0025 0.73 0720 2.72 TU 1307 0.93 1930 2.37			

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WESTERN PORT (STONY POINT)

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

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

DECEMBER - 2020

Time	m	Time	m	Time	m	Time	m
1 0131 2.84 0716 1.20 TU 1307 2.42 1906 0.56		9 0636 2.83 1224 0.86 WE 1847 2.50		17 0240 3.21 0817 1.00 TH 1417 2.65 2015 0.19		25 0130 1.10 0753 2.53 FR 1402 0.80 2058 2.36	
2 0215 2.97 0800 1.12 WE 1351 2.50 1947 0.48		10 0029 0.74 0715 2.75 TH 1308 0.79 1949 2.50		18 0331 3.23 0909 0.92 FR 1512 2.68 2106 0.24		26 0219 1.24 0831 2.43 SA 1448 0.80 2159 2.40	
3 0255 3.06 0838 1.06 TH 1433 2.56 2027 0.43		11 0122 0.89 0800 2.67 FR 1400 0.71 2101 2.55		19 0418 3.18 0957 0.85 SA 1602 2.67 2154 0.33		27 0318 1.35 0917 2.34 SU 1540 0.79 2300 2.48	
4 0334 3.10 0915 1.02 FR 1513 2.59 2105 0.41		12 0224 1.04 0854 2.60 SA 1459 0.61 2217 2.66		20 0501 3.10 1043 0.81 SU 1650 2.64 2239 0.46		28 0425 1.41 1013 2.29 MO 1636 0.75	
5 0412 3.09 0952 0.98 SA 1552 2.60 2143 0.42		13 0337 1.16 0958 2.54 SU 1606 0.51 2332 2.82		21 0540 3.00 1125 0.79 MO 1738 2.57 2322 0.61		29 0000 2.61 0530 1.40 TU 1115 2.28 1731 0.68	
6 0449 3.05 1029 0.96 SU 1631 2.58 2221 0.46		14 0457 1.21 1107 2.53 MO 1715 0.39		22 0615 2.88 1205 0.78 TU 1824 2.49 ●		30 0054 2.75 0630 1.35 WE 1216 2.33 ○ 1824 0.60	
7 0525 2.99 1106 0.94 MO 1713 2.56 2300 0.52		15 0041 3.00 0614 1.17 TU 1215 2.55 ● 1822 0.28		23 0003 0.78 0648 2.76 WE 1244 0.79 1912 2.42		31 0143 2.88 0723 1.26 TH 1313 2.40 1913 0.52	
8 0600 2.91 1144 0.91 TU 1757 2.52 ● 2343 0.62		16 0144 3.13 0720 1.09 WE 1319 2.60 1921 0.21		24 0045 0.94 0720 2.64 TH 1322 0.80 2002 2.37			

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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 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Wed	0501	1948	1027	2344
2	Thu	0502	1948	1124	
3	Fri	0503	1948	1221	0010
4	Sat	0504	1948	1318	0035
5	Sun	0504	1948	1416	0102
6	Mon	0505	1948	1515	0129
7	Tue	0506	1948	1618	0201
8	Wed	0507	1948	1721	0237
9	Thu	0508	1948	1825	0320
10	Fri	0509	1948	1926	0411
11	Sat	0510	1948	2021	0510
12	Sun	0511	1948	2110	0616
13	Mon	0512	1947	2153	0727
14	Tue	0513	1947	2230	0839
15	Wed	0514	1947	2304	0951
16	Thu	0515	1946	2336	1101
17	Fri	0516	1946		1210
18	Sat	0517	1946	0007	1319
19	Sun	0519	1945	0039	1426
20	Mon	0520	1945	0114	1533
21	Tue	0521	1944	0153	1638
22	Wed	0522	1944	0237	1740
23	Thu	0523	1943	0326	1836
24	Fri	0524	1942	0421	1925
25	Sat	0525	1942	0519	2008
26	Sun	0526	1941	0618	2045
27	Mon	0528	1940	0718	2117
28	Tue	0529	1940	0816	2145
29	Wed	0530	1939	0914	2212
30	Thu	0531	1938	1010	2237
31	Fri	0532	1937	1107	2303

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 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sat	0533	1936	1203	2329
2	Sun	0535	1935	1301	2358
3	Mon	0536	1935	1401	
4	Tue	0537	1934	1503	0031
5	Wed	0538	1933	1606	0109
6	Thu	0539	1932	1707	0155
7	Fri	0540	1931	1806	0250
8	Sat	0541	1930	1858	0353
9	Sun	0543	1928	1945	0503
10	Mon	0544	1927	2025	0617
11	Tue	0545	1926	2102	0731
12	Wed	0546	1925	2135	0845
13	Thu	0547	1924	2208	0958
14	Fri	0548	1923	2240	1109
15	Sat	0549	1922	2315	1218
16	Sun	0551	1920	2353	1326
17	Mon	0552	1919		1432
18	Tue	0553	1918	0035	1535
19	Wed	0554	1917	0122	1632
20	Thu	0555	1915	0215	1722
21	Fri	0556	1914	0311	1807
22	Sat	0557	1913	0410	1845
23	Sun	0558	1911	0509	1918
24	Mon	0559	1910	0608	1947
25	Tue	0600	1909	0706	2014
26	Wed	0601	1907	0803	2040
27	Thu	0603	1906	0859	2105
28	Fri	0604	1905	0955	2131
29	Sat	0605	1903	1052	2158

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

March 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sun	0606	1902	1151	2229
2	Mon	0607	1900	1250	2304
3	Tue	0608	1859	1351	2345
4	Wed	0609	1857	1452	
5	Thu	0610	1856	1550	0034
6	Fri	0611	1854	1644	0132
7	Sat	0612	1853	1733	0237
8	Sun	0613	1851	1816	0349
9	Mon	0614	1850	1854	0503
10	Tue	0615	1848	1930	0619
11	Wed	0616	1847	2003	0734
12	Thu	0617	1845	2037	0848
13	Fri	0618	1844	2112	1002
14	Sat	0619	1842	2150	1113
15	Sun	0620	1841	2232	1223
16	Mon	0621	1839	2318	1328
17	Tue	0622	1838		1428
18	Wed	0623	1836	0010	1521
19	Thu	0624	1835	0106	1607
20	Fri	0625	1833	0204	1647
21	Sat	0625	1832	0303	1721
22	Sun	0626	1830	0401	1751
23	Mon	0627	1829	0459	1818
24	Tue	0628	1827	0556	1844
25	Wed	0629	1825	0653	1908
26	Thu	0630	1824	0749	1934
27	Fri	0631	1822	0846	2000
28	Sat	0632	1821	0944	2030
29	Sun	0633	1819	1043	2103
30	Mon	0634	1818	1143	2141
31	Tue	0635	1816	1243	2226

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 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Wed	0636	1815	1340	2318
2	Thu	0637	1813	1435	
3	Fri	0638	1812	1524	0019
4	Sat	0639	1810	1608	0125
5	Sun	0639	1809	1647	0236
6	Mon	0640	1807	1723	0350
7	Tue	0641	1806	1757	0505
8	Wed	0642	1804	1830	0620
9	Thu	0643	1803	1905	0735
10	Fri	0644	1801	1942	0850
11	Sat	0645	1800	2024	1004
12	Sun	0646	1758	2110	1114
13	Mon	0647	1757	2201	1219
14	Tue	0648	1756	2257	1316
15	Wed	0649	1754	2356	1406
16	Thu	0650	1753		1448
17	Fri	0651	1751	0055	1524
18	Sat	0652	1750	0155	1555
19	Sun	0652	1749	0253	1623
20	Mon	0653	1747	0350	1648
21	Tue	0654	1746	0447	1713
22	Wed	0655	1745	0543	1738
23	Thu	0656	1743	0640	1804
24	Fri	0657	1742	0738	1832
25	Sat	0658	1741	0838	1904
26	Sun	0659	1740	0938	1940
27	Mon	0700	1738	1038	2022
28	Tue	0701	1737	1136	2112
29	Wed	0702	1736	1231	2209
30	Thu	0703	1735	1320	2312

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

May 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Fri	0703	1734	1405	
2	Sat	0704	1732	1444	0019
3	Sun	0705	1731	1520	0130
4	Mon	0706	1730	1553	0242
5	Tue	0707	1729	1625	0354
6	Wed	0708	1728	1658	0508
7	Thu	0709	1727	1734	0622
8	Fri	0710	1726	1813	0737
9	Sat	0711	1725	1857	0851
10	Sun	0712	1724	1948	1001
11	Mon	0713	1723	2043	1104
12	Tue	0713	1722	2143	1159
13	Wed	0714	1721	2244	1245
14	Thu	0715	1720	2345	1324
15	Fri	0716	1720		1357
16	Sat	0717	1719	0044	1426
17	Sun	0718	1718	0142	1453
18	Mon	0719	1717	0239	1518
19	Tue	0719	1716	0336	1542
20	Wed	0720	1716	0433	1607
21	Thu	0721	1715	0531	1635
22	Fri	0722	1714	0630	1705
23	Sat	0723	1714	0730	1740
24	Sun	0723	1713	0831	1820
25	Mon	0724	1713	0931	1908
26	Tue	0725	1712	1028	2003
27	Wed	0726	1712	1119	2104
28	Thu	0726	1711	1205	2210
29	Fri	0727	1711	1245	2319
30	Sat	0728	1710	1321	
31	Sun	0729	1710	1354	0028

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

June 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Mon	0729	1709	1425	0138
2	Tue	0730	1709	1456	0249
3	Wed	0731	1709	1529	0401
4	Thu	0731	1708	1605	0513
5	Fri	0732	1708	1646	0627
6	Sat	0732	1708	1734	0739
7	Sun	0733	1708	1827	0846
8	Mon	0733	1708	1926	0946
9	Tue	0734	1707	2028	1037
10	Wed	0734	1707	2131	1120
11	Thu	0735	1707	2232	1157
12	Fri	0735	1707	2332	1228
13	Sat	0736	1707		1255
14	Sun	0736	1707	0030	1321
15	Mon	0737	1707	0127	1345
16	Tue	0737	1707	0223	1410
17	Wed	0737	1707	0320	1436
18	Thu	0738	1708	0419	1505
19	Fri	0738	1708	0519	1538
20	Sat	0738	1708	0621	1617
21	Sun	0738	1708	0722	1703
22	Mon	0739	1708	0821	1756
23	Tue	0739	1709	0916	1857
24	Wed	0739	1709	1004	2002
25	Thu	0739	1709	1046	2110
26	Fri	0739	1710	1124	2220
27	Sat	0739	1710	1157	2329
28	Sun	0739	1710	1228	
29	Mon	0739	1711	1258	0039
30	Tue	0739	1711	1329	0148

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

July 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Wed	0739	1712	1403	0259
2	Thu	0739	1712	1441	0410
3	Fri	0739	1713	1524	0521
4	Sat	0739	1713	1614	0629
5	Sun	0738	1714	1710	0732
6	Mon	0738	1714	1811	0827
7	Tue	0738	1715	1915	0914
8	Wed	0738	1715	2017	0953
9	Thu	0737	1716	2119	1027
10	Fri	0737	1717	2218	1056
11	Sat	0737	1717	2316	1123
12	Sun	0736	1718		1147
13	Mon	0736	1719	0013	1212
14	Tue	0735	1719	0109	1237
15	Wed	0735	1720	0207	1305
16	Thu	0734	1721	0306	1336
17	Fri	0734	1721	0407	1412
18	Sat	0733	1722	0508	1454
19	Sun	0733	1723	0609	1545
20	Mon	0732	1724	0706	1644
21	Tue	0731	1724	0758	1749
22	Wed	0731	1725	0843	1858
23	Thu	0730	1726	0923	2009
24	Fri	0729	1727	0959	2120
25	Sat	0728	1727	1031	2230
26	Sun	0728	1728	1101	2340
27	Mon	0727	1729	1132	
28	Tue	0726	1730	1205	0050
29	Wed	0725	1731	1240	0200
30	Thu	0724	1732	1321	0309
31	Fri	0723	1732	1407	0417

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

August 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sat	0722	1733	1500	0521
2	Sun	0721	1734	1559	0618
3	Mon	0720	1735	1701	0707
4	Tue	0719	1736	1804	0750
5	Wed	0718	1737	1906	0825
6	Thu	0717	1737	2006	0856
7	Fri	0716	1738	2105	0924
8	Sat	0715	1739	2202	0949
9	Sun	0714	1740	2259	1014
10	Mon	0713	1741	2356	1039
11	Tue	0712	1742		1105
12	Wed	0710	1743	0054	1134
13	Thu	0709	1743	0153	1207
14	Fri	0708	1744	0254	1246
15	Sat	0707	1745	0354	1332
16	Sun	0705	1746	0452	1427
17	Mon	0704	1747	0547	1530
18	Tue	0703	1748	0635	1638
19	Wed	0701	1749	0718	1750
20	Thu	0700	1749	0756	1903
21	Fri	0659	1750	0830	2016
22	Sat	0657	1751	0902	2128
23	Sun	0656	1752	0933	2240
24	Mon	0655	1753	1006	2351
25	Tue	0653	1754	1041	
26	Wed	0652	1755	1120	0102
27	Thu	0650	1755	1204	0211
28	Fri	0649	1756	1255	0315
29	Sat	0647	1757	1351	0413
30	Sun	0646	1758	1451	0504
31	Mon	0645	1759	1553	0548

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

September 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Tue	0643	1800	1655	0625
2	Wed	0642	1801	1756	0657
3	Thu	0640	1801	1855	0726
4	Fri	0639	1802	1953	0751
5	Sat	0637	1803	2050	0816
6	Sun	0636	1804	2147	0841
7	Mon	0634	1805	2245	0906
8	Tue	0632	1806	2343	0934
9	Wed	0631	1807		1005
10	Thu	0629	1807	0042	1040
11	Fri	0628	1808	0141	1122
12	Sat	0626	1809	0239	1212
13	Sun	0625	1810	0335	1310
14	Mon	0623	1811	0425	1415
15	Tue	0622	1812	0510	1525
16	Wed	0620	1813	0549	1638
17	Thu	0618	1813	0625	1753
18	Fri	0617	1814	0659	1907
19	Sat	0615	1815	0731	2021
20	Sun	0614	1816	0803	2136
21	Mon	0612	1817	0839	2250
22	Tue	0610	1818	0917	
23	Wed	0609	1819	1001	0002
24	Thu	0607	1820	1050	0109
25	Fri	0606	1820	1145	0210
26	Sat	0604	1821	1245	0304
27	Sun	0603	1822	1346	0349
28	Mon	0601	1823	1448	0428
29	Tue	0559	1824	1549	0500
30	Wed	0558	1825	1648	0529

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 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Thu	0556	1826	1746	0555
2	Fri	0555	1827	1843	0620
3	Sat	0553	1828	1940	0644
4	Sun	0552	1829	2037	0709
5	Mon	0550	1830	2136	0735
6	Tue	0549	1830	2234	0805
7	Wed	0547	1831	2333	0838
8	Thu	0546	1832		0917
9	Fri	0544	1833	0031	1003
10	Sat	0543	1834	0126	1056
11	Sun	0541	1835	0217	1157
12	Mon	0540	1836	0303	1303
13	Tue	0538	1837	0343	1413
14	Wed	0537	1838	0420	1525
15	Thu	0535	1839	0453	1639
16	Fri	0534	1840	0525	1754
17	Sat	0533	1841	0558	1910
18	Sun	0531	1842	0632	2026
19	Mon	0530	1843	0710	2142
20	Tue	0528	1844	0752	2255
21	Wed	0527	1845	0841	
22	Thu	0526	1846	0936	0002
23	Fri	0524	1847	1036	0100
24	Sat	0523	1848	1138	0149
25	Sun	0522	1849	1241	0230
26	Mon	0521	1850	1342	0304
27	Tue	0519	1851	1442	0334
28	Wed	0518	1852	1540	0400
29	Thu	0517	1854	1637	0425
30	Fri	0516	1855	1734	0449
31	Sat	0514	1856	1831	0513

Based on Geoscience Australia material

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

Time Zone: Eastern Standard Time (1000 hr)

Add one hour to time shown for Official Summer Time

November 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Sun	0513	1857	1929	0539
2	Mon	0512	1858	2028	0607
3	Tue	0511	1859	2127	0639
4	Wed	0510	1900	2226	0716
5	Thu	0509	1901	2322	0759
6	Fri	0508	1902		0849
7	Sat	0507	1903	0013	0946
8	Sun	0506	1904	0100	1049
9	Mon	0505	1906	0141	1155
10	Tue	0504	1907	0217	1304
11	Wed	0503	1908	0250	1415
12	Thu	0502	1909	0322	1527
13	Fri	0502	1910	0353	1640
14	Sat	0501	1911	0425	1756
15	Sun	0500	1912	0500	1913
16	Mon	0459	1913	0540	2030
17	Tue	0458	1914	0627	2142
18	Wed	0458	1916	0721	2247
19	Thu	0457	1917	0821	2342
20	Fri	0456	1918	0924	
21	Sat	0456	1919	1029	0027
22	Sun	0455	1920	1132	0105
23	Mon	0455	1921	1233	0137
24	Tue	0454	1922	1333	0205
25	Wed	0454	1923	1430	0230
26	Thu	0453	1924	1527	0254
27	Fri	0453	1925	1624	0318
28	Sat	0453	1926	1722	0342
29	Sun	0452	1927	1821	0410
30	Mon	0452	1928	1920	0440

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 2020

Date	Day	Sunrise	Sunset	Moonrise	Moonset
1	Tue	0452	1929	2020	0516
2	Wed	0452	1930	2117	0557
3	Thu	0451	1931	2211	0645
4	Fri	0451	1932	2259	0741
5	Sat	0451	1933	2341	0841
6	Sun	0451	1934		0946
7	Mon	0451	1935	0019	1053
8	Tue	0451	1936	0052	1201
9	Wed	0451	1936	0122	1310
10	Thu	0451	1937	0152	1420
11	Fri	0451	1938	0222	1531
12	Sat	0452	1939	0254	1646
13	Sun	0452	1940	0331	1801
14	Mon	0452	1940	0413	1916
15	Tue	0452	1941	0503	2025
16	Wed	0453	1942	0600	2127
17	Thu	0453	1942	0704	2218
18	Fri	0453	1943	0810	2301
19	Sat	0454	1943	0916	2336
20	Sun	0454	1944	1020	
21	Mon	0455	1945	1122	0006
22	Tue	0455	1945	1220	0033
23	Wed	0456	1945	1318	0057
24	Thu	0456	1946	1415	0121
25	Fri	0457	1946	1512	0145
26	Sat	0457	1947	1611	0211
27	Sun	0458	1947	1710	0241
28	Mon	0459	1947	1810	0314
29	Tue	0459	1948	1909	0353
30	Wed	0500	1948	2005	0440
31	Thu	0501	1948	2056	0534

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**“What lies
beneath...?”**

Hydrographic Surveys

- Multibeam and Single Beam
- Pre and Post Dredge
- Hazard Detection
- Under Keel Clearance
- Habitat Mapping
- Side Scan Sonar

Marine Mapping & GIS

- Drafting & Mapping (Cartography)
- Geographic Information Systems (GIS)
- Electronic Navigational Charts (ENC's)
- Volume Computations
- Cross Section Profiles
- Channel Designs for Dredging



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