

Sydney

Auckland

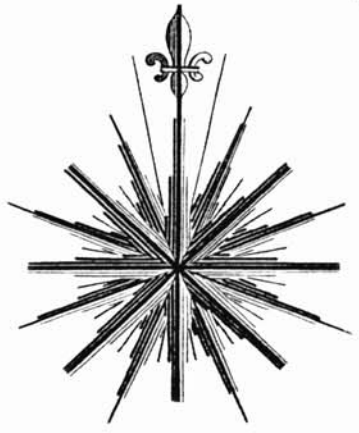
Cap

HIGH TIDE

Hampton Roads
Lighthouse
Boston

The Sea Farers Timepiece

Ocean Clocks
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Phone: int * 61 3 9755 2658



Ocean Clocks

The Ocean Clocks company is dedicated to producing Tide Clocks of Unique Distinction

During the 90's we had an idea that would enhance the standard tide clock currently produced today. We would offer our customers a tide clock that would display High Water at the major and minor ports of their local region. If you have checked your local tide time tables you will see that the high tide times will differ from port to port. There is a time difference from one port to another as the tide makes its way around the coastline. In some regions the tide difference between one port to another can be as much as 6 hours stretching over the length of the State or regional coast. This could be due to many factors such as local land masses, estuaries, currents and ocean basins. The calculation of these time differences will generally not change except under the influence of bad weather. Over the many years that we have been developing our clocks, we have collected and plotted data from around the world. This data aids in our calculations for displaying the correct time difference of the high tide related to the port angles situated on the face.



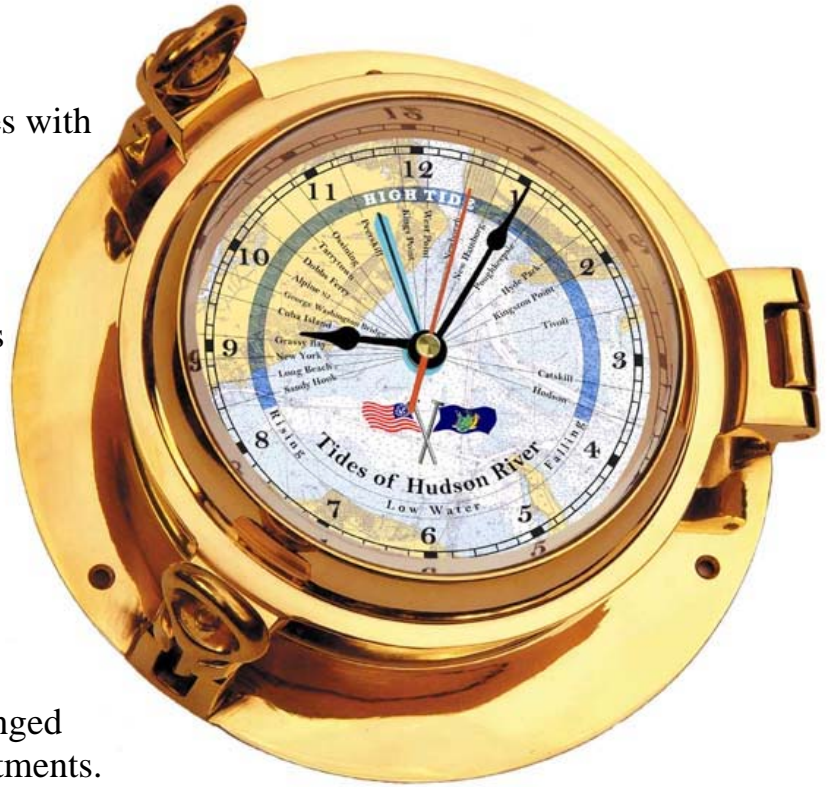
Example of the time difference angles for each Port at High Tide can be seen in this top section of the face for the model of "Tides of Chesapeake Bay".

The Boson's Locker consists of: -

The traditional Brass Porthole with two Latches

These are supplied in two sizes with a choice of Lacquered and Polished finishes.

The majority of our customers prefer the Lacquered model. This is a clear varnished coating, which means that there is no polishing required keeping your clock looking in pristine condition.



The door of the Porthole is hinged which makes it easy for adjustments.

The clock face is finished off with a bevel edged glass enhancing its old world charm. This will look especially grand when mounted on wood.

Dimensions of models available in this range are:-

The Large Porthole clock has a mounting flange diameter of 185mm, a depth from front to back of 50mm and the face diameter is 116mm.

The Small Porthole clock has a mounting flange diameter of 140mm, a depth from front to back of 45mm and the face diameter is 82mm.

Our stylish Chrome model

The Chrome model fits in with many color schemes and is very presentable when used with pastel shades at your beach house.

The clock features an opening door for ease of adjustment.

A single latch with screw turnbuckle keeps the door locked.



One of our major customers for this type of clock and matching Barometer is usually the Captain of the Motor Cruiser.

The bright Chrome finish and compact size looks excellent when displayed on any Motor Cruiser's white bulkhead.

The dimensions of the Chrome model are: -

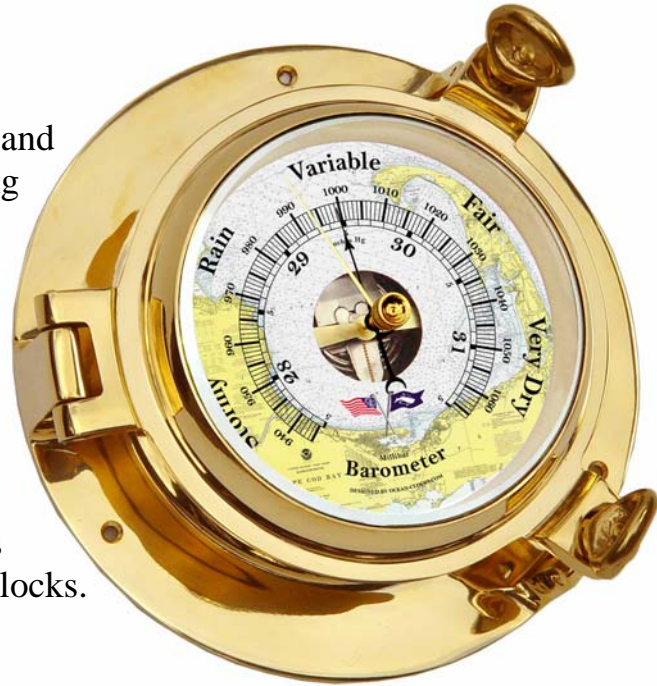
The back mounting flange diameter is 140mm, a depth from front to back of 50mm and the face diameter is 90mm.

All clocks are supplied with mounting screws.

Barometers

We are able to offer our customers a Barometer that matches the Brass Porthole and Chrome Porthole models of our Tide Clock range.

The pair can be mounted together and will compliment each other making a unique nautical weather station.



The dimensions of the Barometers are exactly the same as the Tide Clocks.

Please note that due to air pressures changes in Altitude all barometers need to be adjusted only when they are in their permanently installed position.

Customization:

We offer our customers a service that will really make our products unique. If you want the tide clock and/or the barometer with special artwork, we can produce this for you. We can add Boat names, Company Logos and Yacht Club burgees and will customize the clocks and barometers for special occasion gifts. Please simply call or email us at Ocean Clocks to discuss what is suitable for your requirements.

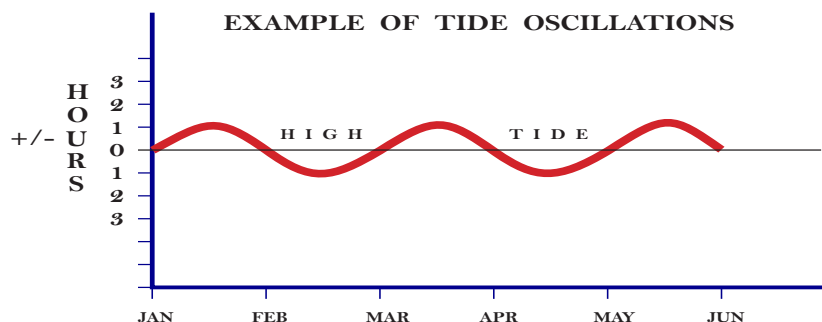
The Chart Room

How does the Tide Clock operate:

The moon has the major influence that causes the tidal changes to advance every day. The position of the sun and local land masses also has some affect on our tides. The time it takes for the moon to orbit the earth is approximately 24hrs, 50mins and it is this time that we have geared into the mechanism to operate the Blue Tide Hand in the movement. The blue tide hand will track the moon's orbit and so we are able to approximately predict the tides. The tide time differences between all of the ports have been calculated to predict the high tides before and after the major port in your region. This information can generally be found in your daily newspaper or in local tide tables but we have worked it out for you and display this information on our clock faces together with a Nautical Chart of your region.

How accurate is the clock:

The following graph demonstrates the moon and sun's gravitational affect compared to the actual clock movement's tidal mechanism. In Semi-Diurnal regions (Areas of approximately two equal tides) the tide times will oscillate approximately plus or minus 45 minutes from the actual displayed time, as the influence of the sun and moon's gravity takes affect. (90 Mins for Puget Sound). The accuracy of the tide hand will be influenced by the actual moment you set the time. Check the tide time at various intervals and if you find the times greater than one hour before or after the correct time, adjust the tide hand to give you an equal oscillation. One interim adjustment is all that may be required and your tide times will keep within this tolerance band. Setting the tide hand on the first day of a full or new moon will centre the tide time for the major port in the middle of the tolerance band.



The Engine Room

The Movement is Japanese and has a very good accuracy of +/- 1 minute per year at a room temperature of 20°C +/- 3°C.

The movement includes time and second hands with a blue fourth tide hand that circulates at 12hrs, 25mins and 14.4secs per revolution. This is used to show high tide times at the ports displayed.

Unfortunately due to freight restrictions on hazardous goods and security, we are unable to supply the clocks complete with the AA battery.

Setting the clock:

Your clock will be most accurate when set on the day after Full or New Moon. Remove the battery. Adjustment should be done in a clockwise direction only. Set time hands to correspond to the time of the previous high tide for the main Port then turn the tide-adjusting wheel only so that the blue hand is set to that main Port. Using the time adjustment only, re-set clockwise to the current time, you will see that the tide hand will move accordingly. Replace the battery. For daylight saving, adjust the time then re-set the tide hand back to its original position.

Warranty

Ocean Clocks instruments are warranted for a period of five (5) years from date of original purchase, against defects in material and workmanship. This warranty is not transferable to any other than the original purchaser.

This warranty does not cover damage due to improper installation or use, water, lightening, voltage surge, battery discharge, or damage attributed to unauthorized service. Glass breakage and case damage are excluded. This warranty is void if any seal on any instrument is broken, or in any way tampered with. Ocean-Clocks, its agents, or assigns, assume no liability, and issues no warranty, for any result(s) from use of tide predictions indicated on its instruments.

Disclaimer:

Please note: Tide times can vary due to influences of the weather conditions.
The tide clocks will only work in areas of Semi-Diurnal Tides. This means in areas that have almost two equal high and two low tides per day.
No responsibility is accepted for events resulting from use of these tidal predictions.



The Captain's Log

The current Tidal Regions we have available are as follows: -

The United States of America

Maine	New Hampshire	Massachusetts
Cape Cod	Cape Cod Canal	Rhode Island
Connecticut	Long Island Sound	Long Island
Long Island South	New York	Hudson River NY
New Jersey	Delaware	Maryland
Chesapeake Bay	Virginia	North Carolina
South Carolina	Georgia	Florida
Florida Keys		

Australia

Victoria New South Wales Queensland Tasmania

New Zealand

North Island South Island

United Kingdom

Irish Sea South East Coast South West Coast

Fiji and the Bahama group of Islands.

**For all sales enquiries in the United States of America, please contact:
Mike Ratican at "Windward Instruments" service@windwardinstruments.com**

Exclusive U. S. Distributor of Ocean-Clocks

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