



Typical Tide Graph: Oct 17-18, 2010 at Boca Grande Fl.

Here's what the measuring points are:

- Mean Higher High Water (MHHW)
- Mean High Water (MHW)
- Mean Tide Level (MTL)
- Mean Sea Level (MSL)
- Mean Low Water (MLW)
- Mean Low Lower Water (MLLW) **the lowest**

****** Mean Low Lower Water is the water depth shown on Nautical Charts ******
(try to remember that!)

Look at a seawall or piling someplace. See where the water level is when the tide is in, then see where it is later when the tide is out. Fishermen often have a 'feeling' for where the tide is at any given time of day.

The difference in height between MHHW and MLLW is called the **Diurnal range of tide**.

The **Mean range of tide** is the difference in height between MHW and MLW.

The actual range of tide in the waters of the open oceans may amount to only one to three feet. However, as the ocean tide approaches shoal waters of the shore its effects are enhanced.

In Nova Scotia along the narrow channel of the Bay of Fundy, the difference between high and low waters may reach 43 1/2 feet. At New Orleans, the tide is affected by the Mississippi River, being about 10 inches at low stage and zero at high.

In every case, actual high or low tide can vary considerably from average, due to weather conditions such as strong winds, abrupt barometric changes, or prolonged periods of extreme high or low pressure.

A 10 mph wind from the same direction for 10 hours can add or subtract 6 inches to a tide.

1-Day of Tides – 10/17/2010

Port Boca Grande, Charlotte Harbor, Florida
26.7200° N, 82.2583° W

02:40 AM EDT	1.00 feet Low Tide
02:47 AM EDT	Moonset
06:39 AM EDT	Twilight begins
07:29 AM EDT	Sunrise
09:30 AM EDT	1.51 feet High Tide
03:52 PM EDT	Moonrise
03:55 PM EDT	0.46 feet Low Tide
06:58 PM EDT	Sunset
07:49 PM EDT	Twilight ends
11:14 PM EDT	1.34 feet High Tide
03:39 AM EDT	Moonset
03:47 AM EDT	0.80 feet Low Tide
06:39 AM EDT	Twilight begins
07:30 AM EDT	Sunrise
10:45 AM EDT	1.51 feet High Tide
04:22 PM EDT	Moonrise
04:28 PM EDT	0.55 feet Low Tide
06:57 PM EDT	Sunset
07:48 PM EDT	Twilight ends
11:27 PM EDT	1.43 feet High Tide

