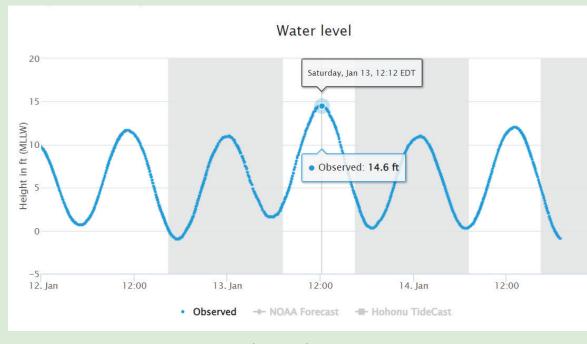
Measuring Tides and Sea Level on Chebeague

Chebeague's Tide Level Sensor was installed in the Autumn of 2023 by the Chebeague Climate Action Team (CCAT), thanks to an Island Institute ShoreUp Grant. The gauge delivers real-time tide measurements, establishing a Chebeague-specific tide baseline for day-to-day use and future comparisons. There's potential for correlation with local weather records, enhancing our understanding of how the island's environmental dynamics affect mariners, recreation enthusiasts, and transportation planners.

What causes the tides? The moon, sun and earth all tug on each other through the force of gravity, causing the oceans to bulge toward the moon and sun.

Sea level rise is one of many challenges facing our warming planet. With rising global sea level comes higher tides and more destructive storm surges.



Record-breaking tides on Jan. 13, 2024, captured by our Chebeague tide gauge.



Our Tide Gauge

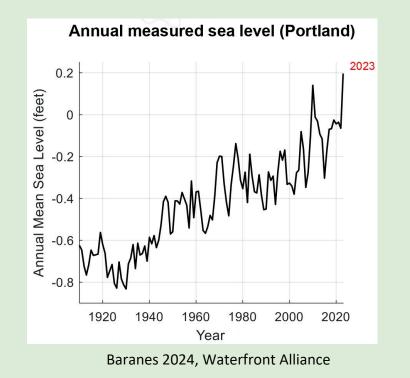
Our solar-powered, ultrasonic gauge from Hohonu Corp. is mounted on the far righthand side of the railing near the end of Chandler's Wharf. The gauge's sensor measures distance down to the sea surface multiple times each minute. The gauge sends its measurements to a nearby cell tower where they are relayed to Hohonu Corp. for processing and then uploaded to the internet for public viewing.





Tides and Sea Level Rise

Hohonu Tide Gauge Data



Documented sea level rise in Portland