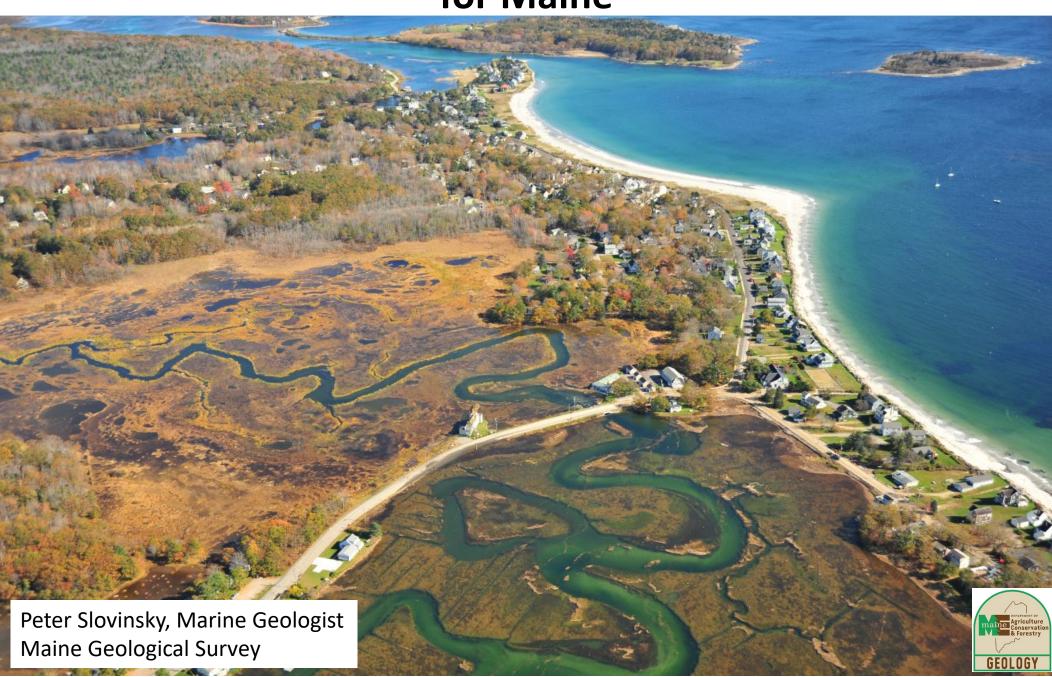
Developing a Sea Level Rise and Water Level Ticker and Dashboard for Maine



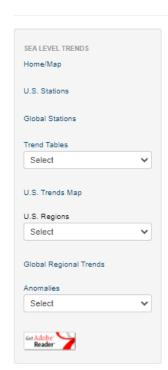
NOAA Tides and Currents - Sea Level Rise Trends



Home About → What We Do → News Education →

Search	۵

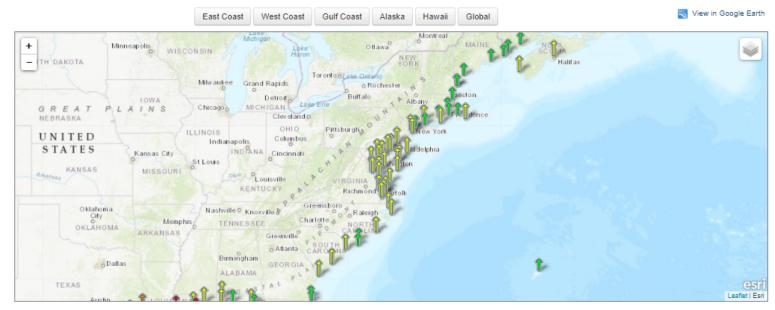
Home / Products / Sea Level Trends



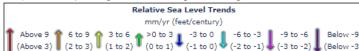
Home/Map 7 U.S. Trends Map 7 Monthly Anomalies 7 Anomaly Count/Year

Sea Level Trends

The sea level trends measured by tide gauges that are presented here are local relative sea level (RSL) trends as opposed to the global sea level trend. Tide gauge measurements are made with respect to a local fixed reference on land. RSL is a combination of the sea level rise and the local vertical land motion. The global sea level trend has been recorded by satellite altimeters since 1992 and the latest global trend can be obtained from NOAA's Laboratory for Satellite Altimetry, with maps of the regional variation in the trend. The University of Colorado's Sea Level Research Group compares global sea level rates calculated by different research organizations and discusses some of the issues involved.



The map above illustrates relative sea level trends, with arrows representing the direction and magnitude of change. Click on an arrow to access additional information about that station.



The Center for Operational Oceanographic Products and Services has been measuring sea level for over 150 years, with tide stations of the National Water Level Observation Network operating on all U.S. coasts. Changes in RSL, either a rise or fall, have been computed at 142 long-term water level stations using a minimum span of 30 years of observations at each location. These measurements have been averaged by month which removes the effect of higher frequency phenomena in order to compute an accurate linear sea level trend. The trend analysis has also been extended to 240 global tide stations using data from the Permanent Service for Mean Sea Level (PSMSL). This work is funded in partnership with the NOAA OAR Climate Observation Division.

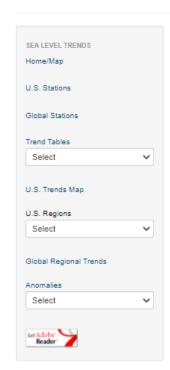
NOAA Tides and Currents - Sea Level Rise Trends

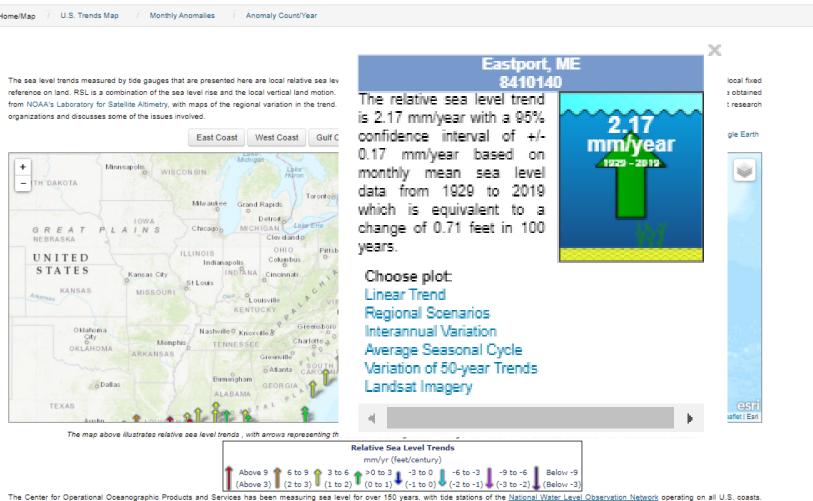


Home About ▼ What We Do ▼ News Education ▼ Search

Search

Home / Products / Sea Level Trends





The Center for Operational Oceanographic Products and Services has been measuring sea level for over 150 years, with tide stations of the National Water Level Observation Network operating on all U.S. coasts.

Changes in RSL, either a rise or fall, have been computed at 142 long-term water level stations using a minimum span of 30 years of observations at each location. These measurements have been averaged by month which removes the effect of higher frequency phenomena in order to compute an accurate linear sea level trend. The trend analysis has also been extended to 240 global tide stations using data from the Permanent Service for Mean Sea Level (PSMSL). This work is funded in partnership with the NOAA OAR Climate Observation Division.

NOAA Tides and Currents - Sea Level Rise Trends

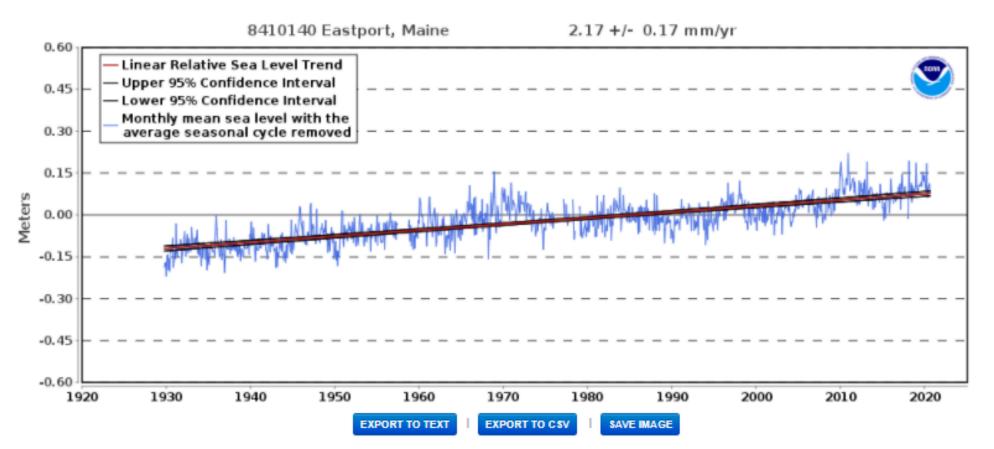


Home About → What We Do → News Education →

Search

Home / Products / Sea Level Trends

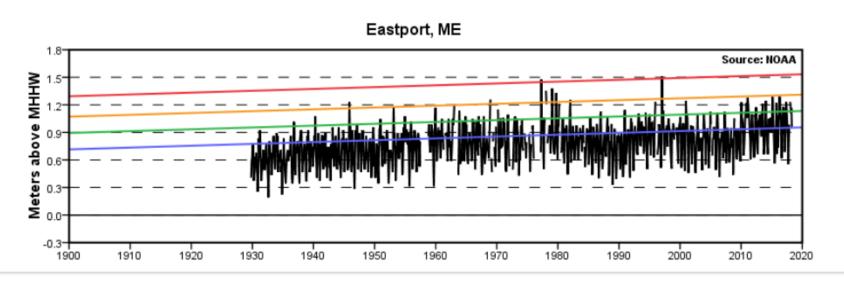
Relative Sea Level Trend 8410140 Eastport, Maine

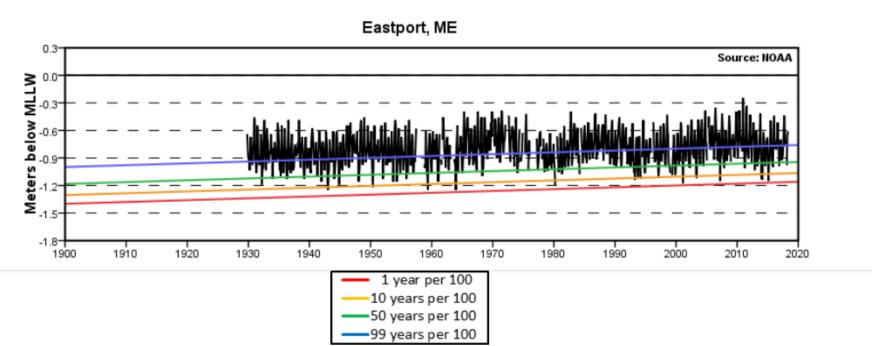


The relative sea level trend is 2.17 millimeters/year with a 95% confidence interval of +/- 0.17 mm/yr based on monthly mean sea level data from 1929 to 2019 which is equivalent to a change of 0.71 feet in 100 years.

NOAA Tides and Currents - Extreme Water Levels

Extreme Water Levels 8410140 Eastport, ME

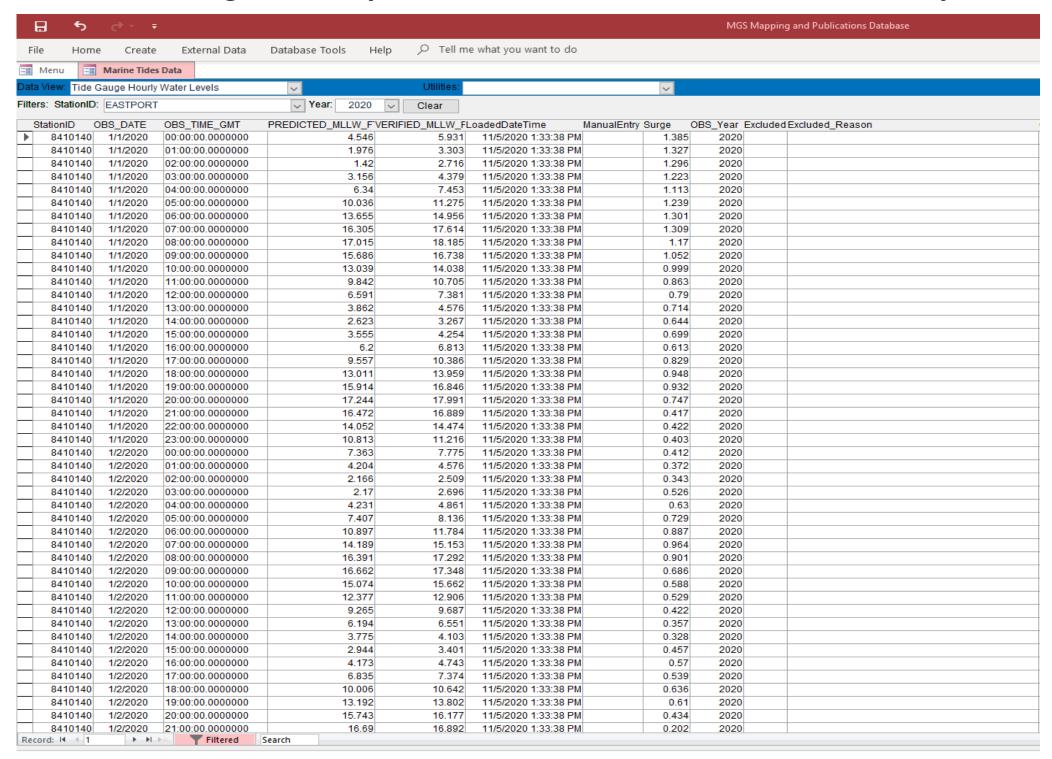




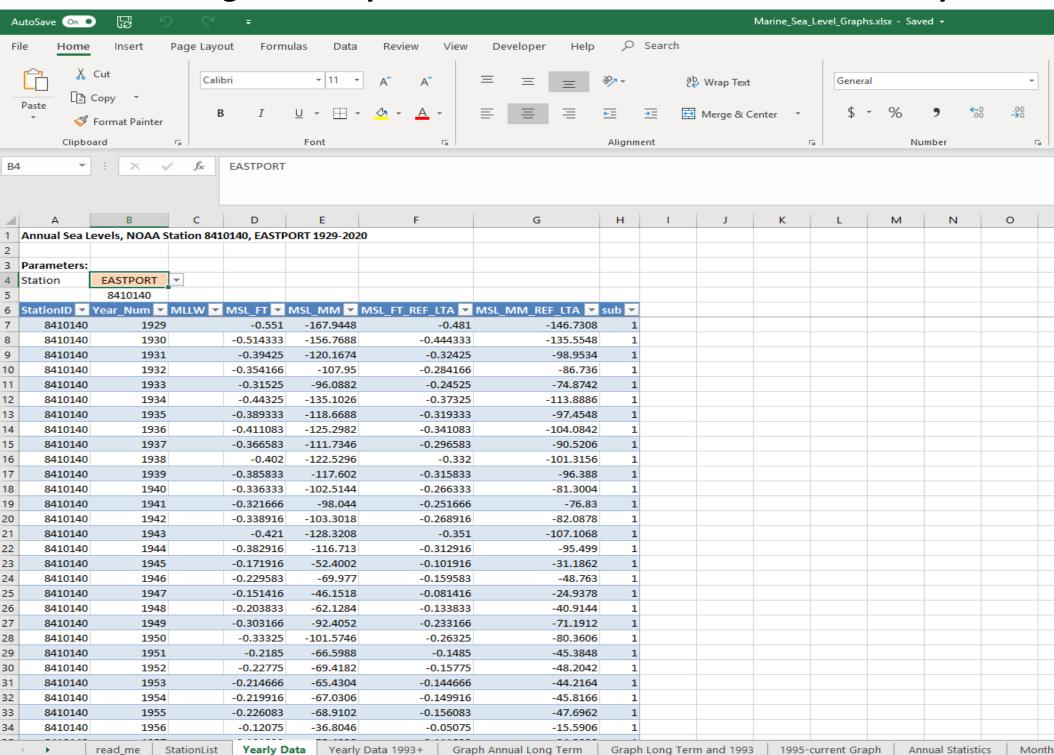
NOAA CO-OPs provides excellent, longer-term data analysis summaries.

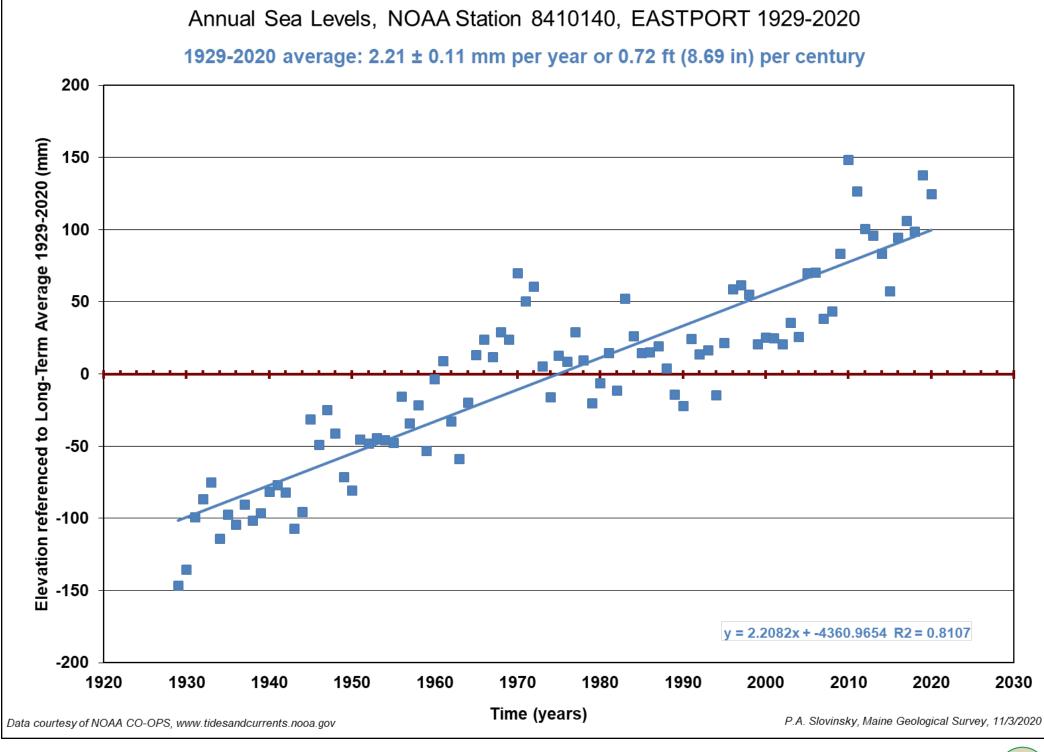
What about monthly water level changes, storm surges, or short-term trends?

Maine Geological Survey Database and Automated Excel Data Analyses



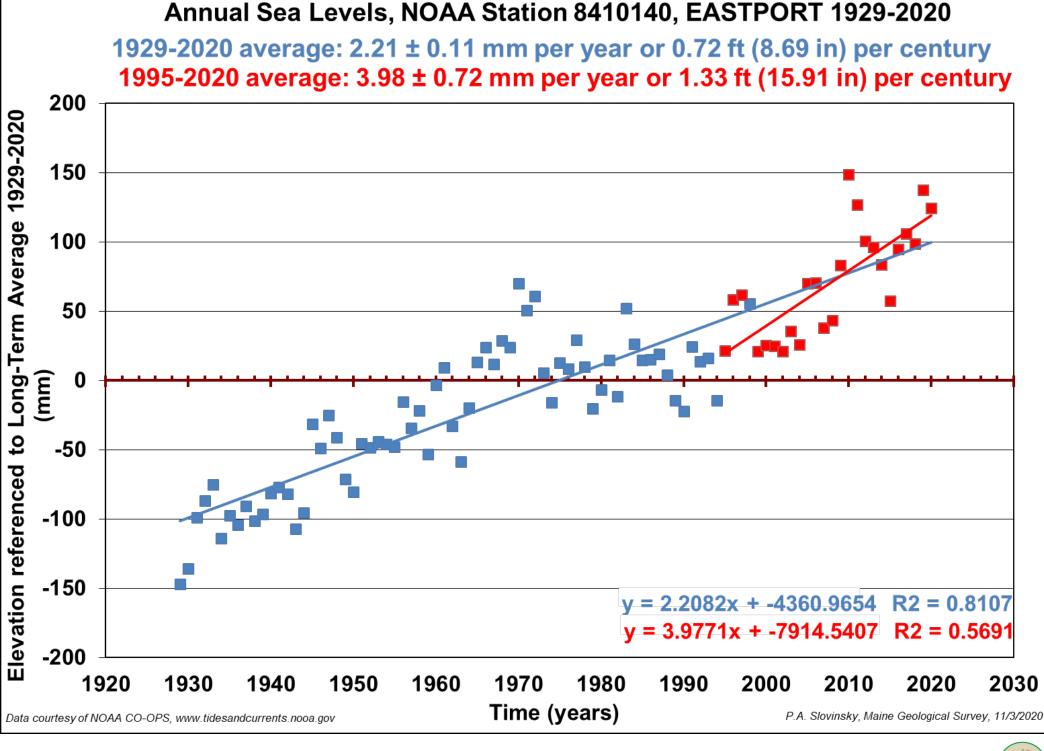
Maine Geological Survey Database and Automated Excel Data Analyses



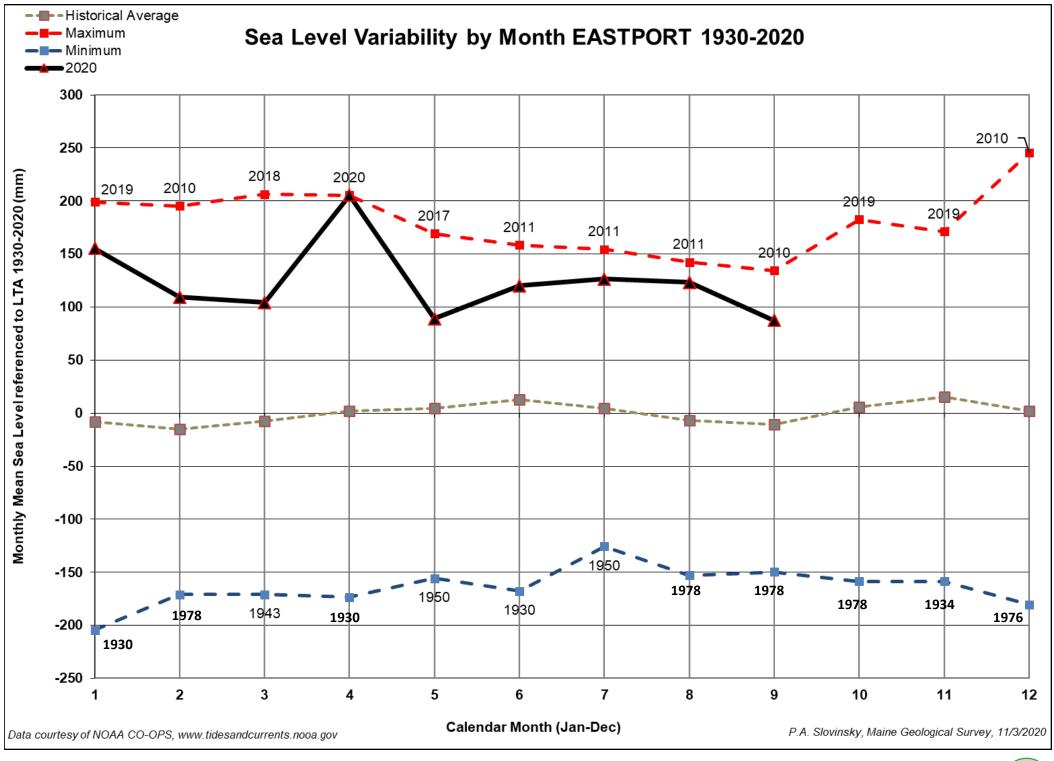


Long-term annualized sea level rise (to 2020) referenced to the long-term average



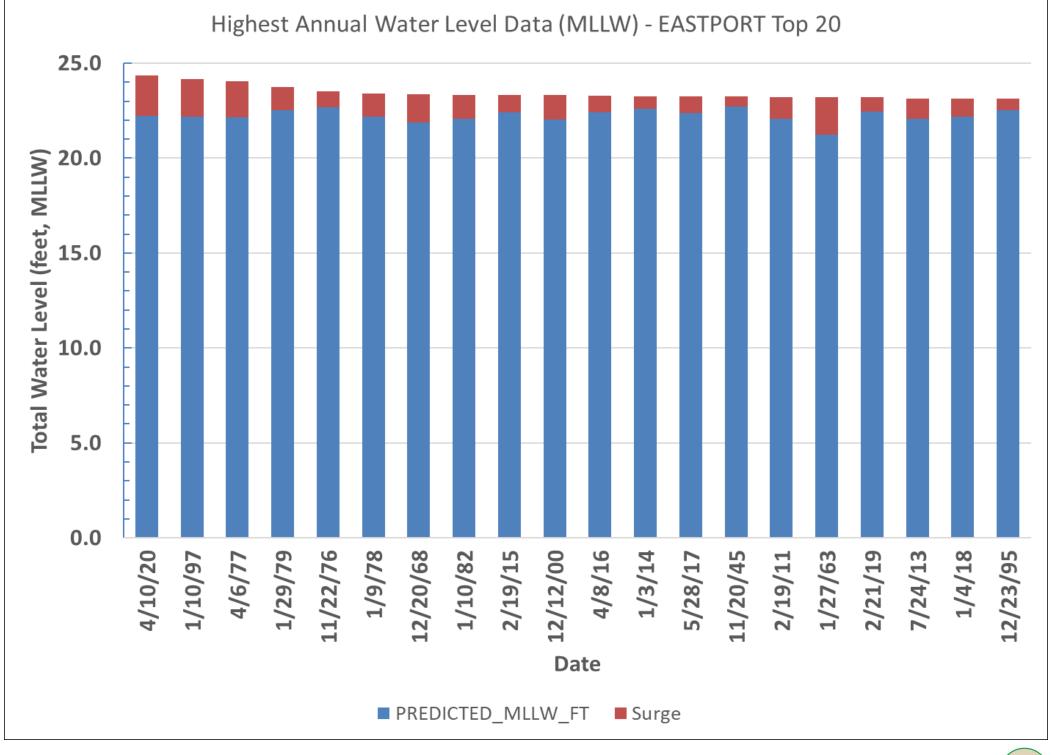




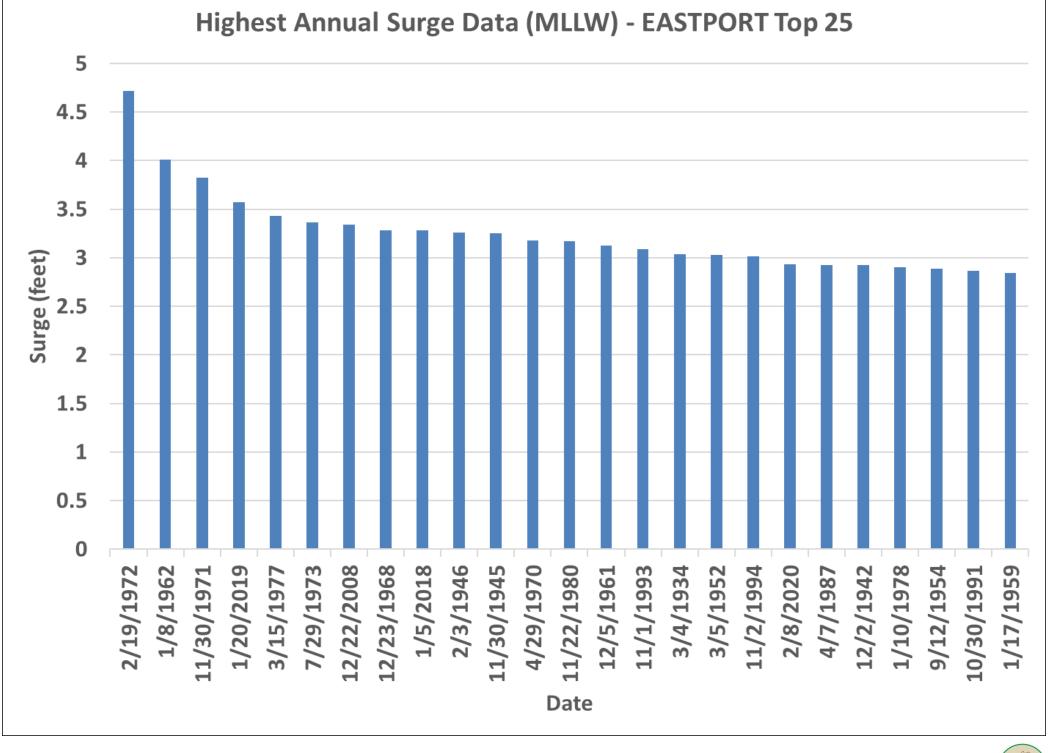




Sea level variability (by month) in relation to the long-term average

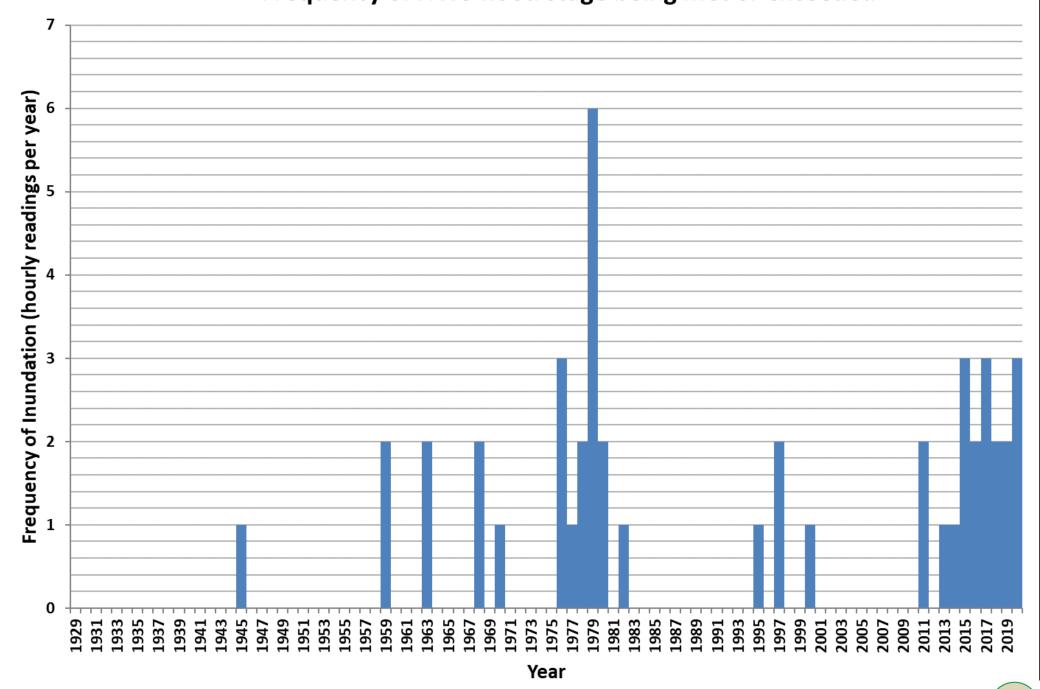








Historic Flood Frequency for Eastport, Maine Frequency of NWS flood stage being met or exceeded

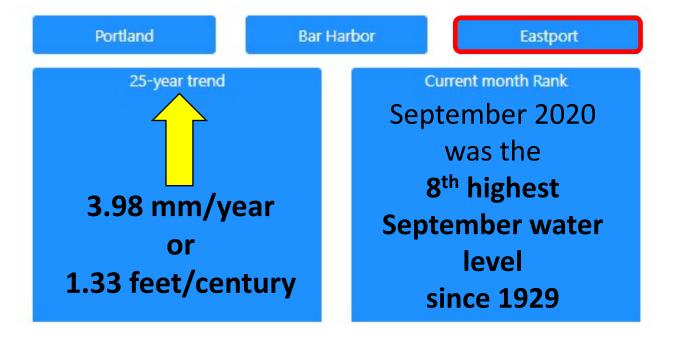




Maine's Sea Level Rise Ticker

Maine Geological Survey

Sea Level Rise in Maine



Learn More



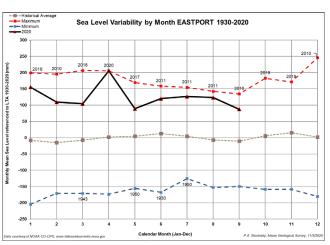
Maine's draft Sea Level Rise Dashboard

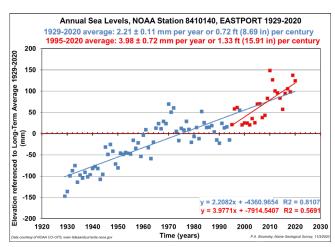


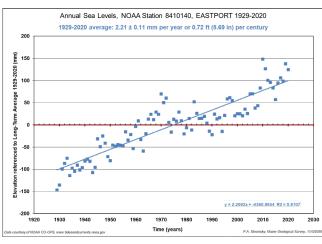








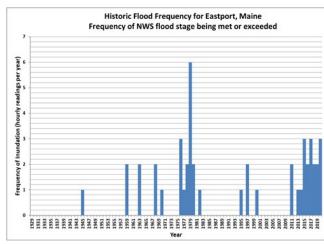




September 2020 was the 8th highest since 1929.

This is slightly **down** from August 2020 which was the **3**rd **highest since 1929.**





draft