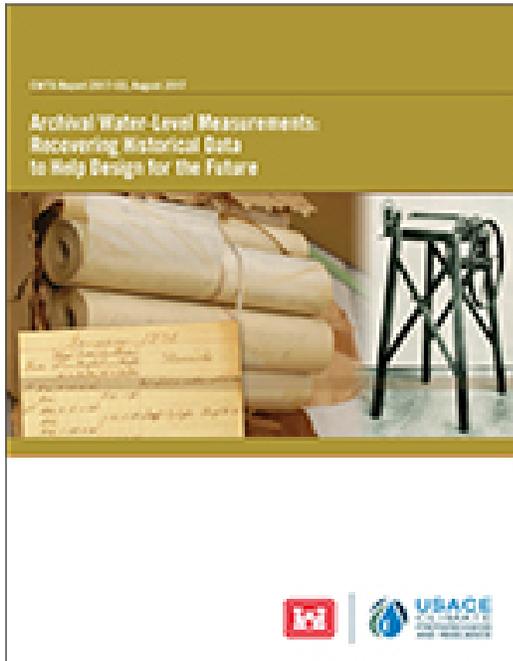


USACE Announces Release of Historical Tide Data Report



ALEXANDRIA, VIRGINIA. The U.S. Army Corps of Engineers (USACE) plans, designs, constructs, operates, and maintains natural and built coastal infrastructure to support navigation, flood and coastal storm risk reduction, aquatic ecosystem restoration, and other water resources-related missions. Improving methods to assess risk and design projects and infrastructure to withstand extreme events and changing sea levels is a vital component of USACE strategies necessary for reducing risk to the Nation's coastal resources and assets. One factor that helps to improve the statistical robustness of risk assessments is to increase the number, time span, and quality of available water-level data sets, and to assess trends and non-stationarity.

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In collaboration with Portland State University, the [Archival Water-Level Measurements: Recovering Historical Data to Help Design for the Future](#) (*pdf, 4.17 MB*) report discusses efforts to recover, digitize, and analyze hundreds of station-years of lost-and-forgotten tide data and other water-level measurements that extend back to the early 19th century. It demonstrates how this data recovery effort can help engineers better characterize their water-level environment and understand long-term trends, resulting in better risk assessment and ultimately more robust design of new infrastructure and adaptation of existing infrastructure.

Learn More:

- [ETL 1100-2-1](#) (*pdf, 9.87 MB*): Procedures to Evaluate Sea Level Change: Impacts, Responses, and Adaptation
- [ER 1110-2-8160](#) (*pdf, 74 KB*): Policies for Referencing Project Elevation Grades to Nationwide Vertical Datums
- [NOAA Dataset](#): Tides and Currents Map by the National Oceanic and Atmospheric Administration (NOAA)
- [Environmental Document Access and Display System, Version 2 \(EV2\) application](#): Online database of microfiche climate data from ~1800 to present, includes NOAA tide data from ~1920 forwards, and river gauge data from ~1880

- [Climate Database Modernization Program \(CDMP\)](#): meteorological data back to ~1790, and some river stage data, including tidal locations, from ~1880