



# CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES



## Who We Are

**Oceanographers** ensuring our data are accurate and creating useful decision support tools for the nation.

**Engineers** working to build better and more advanced oceanographic observing systems that can operate in the most challenging conditions.

**Field Technical Experts** installing and maintaining observing systems up to rigorous scientific standards.

**Information Systems Experts** developing high performing systems that manage and disseminate large amounts of data.

## Meaningful Oceanographic Data for the Nation

NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) is the authoritative source for accurate, reliable, and timely tides, water levels, currents, and other coastal oceanographic and meteorological information. Our services support safe and efficient maritime commerce and transportation (including recreational boating), protect public health and safety, and promote robust, resilient coastal communities.

CO-OPS maintains ocean observation infrastructure, including more than 200 permanent water level stations on the U.S. coasts and Great Lakes, an integrated system of real-time sensors concentrated in busy seaports, and temporary meters that collect observations for tidal current prediction updates.

## Online and Free

All of CO-OPS' data, products, and scientific analyses are online and accessible free of charge to the public. To access these resources, visit <https://tidesandcurrents.noaa.gov>.

## Point of Contact

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## Data Services:



### Web Services -

[https://tidesandcurrents.noaa.gov/web\\_services\\_info.html](https://tidesandcurrents.noaa.gov/web_services_info.html)

Metadata and observational or product data are available for use in custom applications. These services enable manual or automated machine-to-machine data, model, and product retrievals (CSV, XML, JSON, TXT, and NetCDF).



### GIS Data Portal -

<https://tidesandcurrents.noaa.gov/gis-data-portal/>

Our public GIS services (MapService, FeatureService) allow data to be used for desktop mapping and other GIS applications. Users can retrieve station locations for our various observations as well as derived products.



### Modeling Data (THREDDS) -

<https://opendap.co-ops.nos.noaa.gov/thredds/catalog.html>

Our extensive modeling (OFS) data are available for download via our THREDDS server (in NetCDF format) and contain a variety of operational forecast data.