



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, 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. Through these systems, CO-OPS is able to provide the nation with historic and real-time data, forecasts, predictions, and scientific analyses that protect life, the economy, and the environment on the coast.

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>.

Our Work Benefits:



Safe and Efficient Maritime Commerce - CO-OPS provides the maritime transportation industry with timely, accurate, and reliable observations they need to navigate safely and efficiently through waterways and ports. We provide information on oceanographic and meteorological conditions that mariners can access on the fly.



Coastal Infrastructure and Economies - CO-OPS provides the nation with data and tools to prepare and plan for flooding and inundation as a result of storms, tsunamis, and sea level change.



Better Public Health Information - Harmful algal blooms threaten the health and safety of humans and organisms. CO-OPS provides operational red tide forecasts for the Gulf of Mexico so communities can make decisions that will help them avoid impacts.



Mapping and Charting - CO-OPS produces and maintains critical water level data and datums that provide a foundation for many coastal activities, including hydrographic surveys, nautical charting, shoreline mapping, navigation, marine boundary determinations, and dredging.