



Instrument Deployment

Citizen Science Opportunity in Partnership with the National Oceanographic and Atmospheric Administration to Engage the Yachting Community

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EXPENDABLE BATHYTHERMOGRAPH

An eXpendable BathyThermograph (XBT) is a temperature probe that is launched from the stern or the bridge wing of a ship using a hand launcher or Atlantic Oceanographic and Meteorological Laboratory automatic launcher. The data is logged to a computer with software provided by National Oceanographic and Atmospheric Administration (NOAA), where it is processed and formatted for satellite transmission in real-time through the Global Telecommunications System (GTS). The data is then used by national and international organizations, universities, and government laboratories for weather and climate forecasting and for climate research.

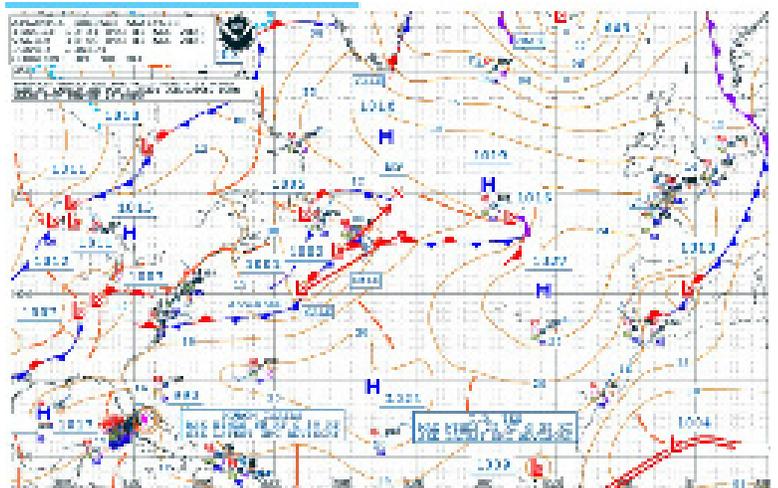
Why help deploy XBTs?

Because XBTs provide vital observations to estimate the heat contained in the upper ocean and the surface currents, which drive the sea surface temperatures, a critical ocean variable determining the locations of high and low atmospheric pressure systems.

Why help NOAA perform marine observations?

The National Weather Service (NWS) uses data collected by commercial and recreational vessels and meteorological bulletins for publicly available free products including marine, aviation, fire, weather, hydrologic, tropical, public and climate forecasting.

Of particular interest to mariners are the free monitoring and forecast products from the NWS Marine and Coastal Weather Services Branch covering areas such as the High Seas, Offshore, NAVTEX, Coastal Waters, Storm Surges, Tsunamis, Tides, and Hurricanes. The NWS also provides text and graphic-based reports on Marine and Hazardous Weather, Surface Conditions, and Global Wind and Currents.



Atlantic Surface Analysis from the NWS Ocean Prediction Center

CONTACT SEAKEEPERS TODAY

To participate in SeaKeepers' instrument deployment programs, contact our programming department and our staff will review your submission and match your vessel with the best opportunity.

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