

Roundup Abstract

Coastal and Ocean Modeling Testbed

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Abstract

The US IOOS® Coastal and Ocean Modeling Testbed (COMT) uses targeted research and development to accelerate the transition of scientific and technical advances from the coastal and ocean modeling research community to improve identified operational ocean products and services (i.e. via research to operations and also operations to research). The vision of the program is to enhance the accuracy, reliability, and scope of the federal suite of operational coastal and ocean modeling products, while ensuring its diverse user community is better equipped to solve challenging coastal problems. Since its initiation in June 2010, non-federal partner, the Southeast University Research Association (SURA) has led the development of the COMT to include a flexible and extensible community research framework to test and evaluate predictive models to address key coastal environmental issues. This framework supports integration, comparison, scientific analyses and archiving of data and model output. The COMT has developed a cyber infrastructure to allow more effective collaborations among Federal research labs, the academic community and Federal operational centers to accelerate improvements of predictive models. In September, 2013, a new cooperative agreement was put in place with SURA and 5 projects were started including: Chesapeake Bay Estuarine Hypoxia Gulf of Mexico Shelf Hypoxia Puerto Rico/U.S. Virgin Islands surge and wave inundation Integration of US West Coast operational coastal and ocean models Cyber infrastructure This presentation will highlight some of the continuing progress and successes that have come from the most recently completed work as well as the planned work ahead for the new projects including coordination with federal partners inside NOAA and at EPA and connections to NOAA's Ecological Forecasting Roadmap and NOAA's Storm Surge Roadmap.