

2020 AGU Fall Meeting - Town Hall Abstract

Title: Improving Water Prediction in the Coastal Transition Zone: An Interagency Collaboration

Primary Contact: Cayla Dean, NOAA NOS CO-OPS

Proposed Speakers:

Patrick Burke, NOS CO-OPS

Trey Flowers, NWS Office for Water Prediction

Chris Massey, USACE

Harry Jenter, USGS

Rick Luettich, University of North Carolina at Chapel Hill

Target Audience: Coastal modelers and practitioners from government agencies, industry partners and academic programs.

Scientists and modelers from the federal government and academia have formed the Coastal Coupling Community of Practice (CC CoP) in order to address the challenges integrating riverine and coastal water modeling systems in an effort to develop accurate water forecasts. This effort supports the NOAA Water Initiative, NOAA's unified modeling framework, the interagency Integrated Hydro-Terrestrial Modeling group, among others and seeks innovative solutions to water issues such as flooding/inundation and water quality. The NOAA Water Initiative is designed to enhance partnerships across disciplinary and geographic boundaries in order to create and deliver integrated or "total" water information. A unified Earth system modeling approach will facilitate the development of new model approaches and improvements by laying out the development and transition framework, best practices, and community coding standards necessary for model coupling. The CC CoP is working toward the advancement of science around coupling models through collaborative community engagement for integrated coastal solutions employing research, model development and application, data provision, observations, analysis, and service delivery. This town hall is designed to communicate community model requirements, gather feedback on ways to improve service delivery, and further engage the modeling community to accelerate the development and transition of innovative coupled modeling solutions into NOAA operations. We invite current and future collaborators to attend this town hall meeting to learn about the CC CoP's current activities and opportunities to get involved.