



## ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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### **Response Summary:**

A three-day workshop on the Coastal Storm (CSTORM) modeling system was held at the Baltimore District office with a focus on participants learning how to apply the system themselves. Topics covered included the basics of the Advance Circulation (ADCIRC) shallow water model, the nearshore Steady State Wave (STWAVE) model, an overview of how to use the DoD's High Performance Computing (HPC) System, and ADCIRC mesh construction and editing. The workshop combined lectures and demonstrations with hands-on tutorials that were related to a recently completed study for Dyke Marsh in Virginia on the Potomac River. The tutorials further encouraged participants to set up and run a complete CSTORM simulation.

### **Period of Performance:**

The training session began on Tuesday, March 6 and concluded on Thursday, March 8 2018.

### **Benefits of the Response to the USACE Dredging/Navigation Program:**

The workshop provided an introduction to the use of the CSTORM modeling system to members of several USACE districts. This not only informed participants of the capabilities of CSTORM, but also gave them information that they can use to apply and run CSTORM for projects in-house rather than outsourcing the numerical modeling elsewhere.

### **Deliverable:**

The main deliverable product was the workshop. Participants received electronic copies of all training materials including User's Manuals, lecture notes and example data sets that accompany the notes.



Providing environmental and engineering technical support to the U.S. Army Corps of Engineers  
Operations and Maintenance navigation and dredging missions

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