



ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Response Summary:

Trained USACE South Atlantic Division (SAD) employees on operation of Beach-*fx* and G2CRM over a weeklong training session. The training consisted of hands-on training with district data. Training assisted users in operating multiple USACE tools, including Beach-*fx*, BMAP/RMAP, and SBEACH.

Period of Performance:

3-7 April 2023

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

Beach-*fx* allows the district to optimize beach nourishment placement. The model provides a method of cost benefit analysis of beach nourishments and optimizes the nourishment schedule with respect to overall placement costs. Optimization of nourishment intervals considers the morphology change, dredge production rates and morphology cost, and dredging blackout windows due to nesting seasons. These factors allow districts to optimize dredging schedules with respect to beach nourishment. Additionally, BMAP/RMAP allow users to analyze survey transects for a wide variety of beach projects, including nearshore placement. These skills will allow the district users to contribute to future beach nourishment projects. A site visit to St. Augustine, Florida was held for scoping potential solutions.

Deliverable:

Workshop was delivered 3-7 April 2023.



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

