



ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Response Summary:

The purpose of the effort was to perform a reconnaissance trip of the Port of Nome (Alaska). The results of the reconnaissance study will be used in an ERDC ship simulation study that assists the U.S. Army Corps of Engineers, Alaska District, (CEPOA) in analyzing the proposed modifications to the breakwater and piers at the Port of Nome. ERDC personnel road a utility from the docks at the port through the harbor into Norton Sound. Numerous digital photographs were taken of both breakwaters and the seaward facing portion of Nome. The harbormaster was on the craft, also. He pointed out several features including the difficulties associated with the wave climate outside the breakwaters.



Period of Performance:

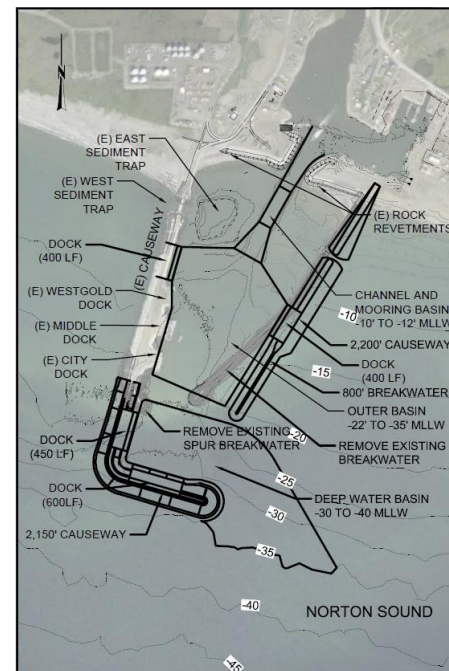
30 July 2018 – 2 August 2018.

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

The ship simulation study will provide a tool to CEPOA that can be used to assess the feasibility of the proposed breakwater modifications. The results of this study will be used to select the tentatively selected plan for the project.

Deliverable:

The deliverables are digital images that can be used to develop visual databases for the upcoming ship simulation study and information gathered from local pilots that can be used to inform the simulation test matrix. The simulation study results will be documented in a memorandum outlining the results of the ship simulation study including track plots, pilot feedback, and limited analysis by ERDC simulator personnel. This memorandum serves as a tool to assist CEPOA in ensuring the proposed breakwater design meets the navigation industry's needs while meeting USACE economic criteria.



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

S. Keith Martin
Coastal and Hydraulics Laboratory Name •
Keith.Martin@erdc.dren.mil

DOTS ID: DOTS-18-R66.