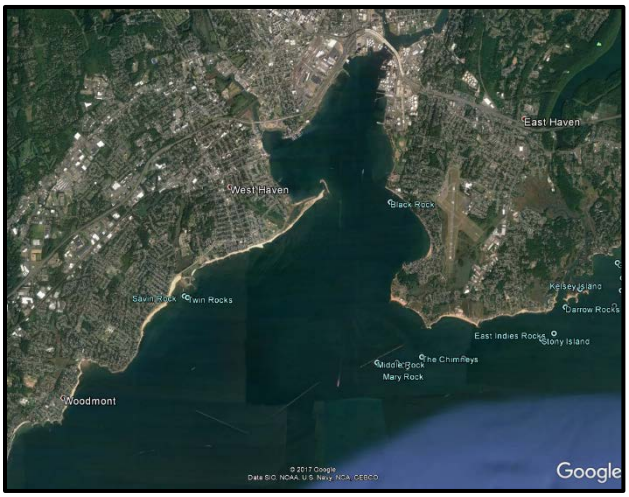
New Haven Harbor Navigation Improvement Study

Response Summary:

The purpose of the effort was to perform a reconnaissance trip of New Haven Harbor (Connecticut). The results of the reconnaissance study will be used in an ERDC ship simulation study that assists the U.S. Army Corps of Engineers, New England District, (CENAE) in analyzing the proposed deepening and widening of the New Haven Harbor navigation channel. ERDC personnel road a tug boat from the docks near the I-95 bridge through the New Harbor out into Long Island Sound (LIS). Numerous digital photographs were taken of both sides of the harbor and of the breakwaters at the entrance into LIS. A member of the Connecticut pilots association was on the tug boat, also. He pointed out several features including the difficulties associated with the turn out of New Haven Harbor into LIS.



Period of Performance:

6 November 2017 – 8 November 2017.

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

The ship simulation study provides a tool to CENAE that can be used to assess the feasibility of the proposed navigation channel improvements to New Haven Harbor. The results of this study will be applied to a future study of New Haven Harbor in order to optimize the channel design with regard to safety and economics. The optimization to the economics includes the dredging involved in the construction of 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 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 CENAE in ensuring the navigation channel design that moves forward into the Preconstruction Engineering and Design (PED) phase is a feasible design that will be used by the navigation industry.

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