



CHL Dickhudt Collect Sedimentation Data in Lexington Harbor for LRE

ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Response Summary:

Lexington Harbor is a recreational federal navigation project on Lake Huron in the Detroit District. In response to recurrent shoaling, LRE is conducting a study at Lexington Harbor that involves development of a CMS-Wave and Flow model and collection of complimentary field data. The CMS-Wave and Flow model will be employed to investigate alternatives to mitigate shoaling of the federal navigation channel. Multiple acoustic Doppler current profilers (ADCPs) were deployed in 2018 to collect *in situ* wave and current data near the entrance to Lexington Harbor. These data will be used to validate CMS-Wave and Flow model results.

Period of Performance:

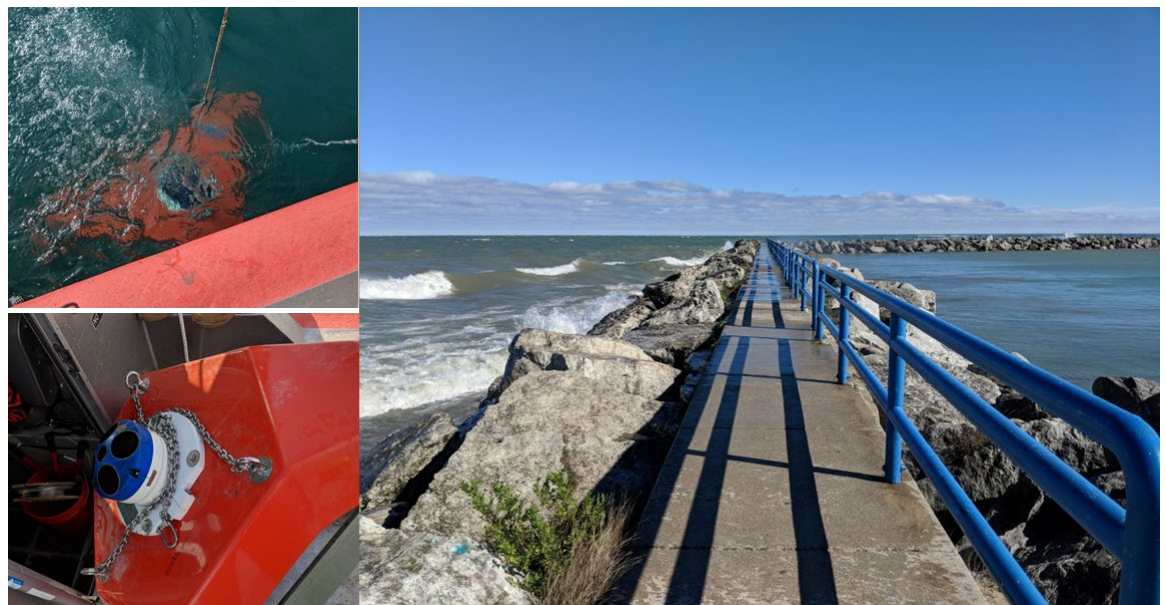
2/01/2019 – 9/28/2019.

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

Expert guidance and assistance in data processing, quality control, and analysis will produce high quality wave and current data to characterize the study site and be utilized for model validation.

Deliverable:

Current profile and directional wave data fully QA/QC'd and delivered to modelling team.



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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