

MAPPING OF EXMOUTH SEAFRONT USING SHALLOW WATER SURVEY VESSEL AND SINGLE BEAM ECHO SOUNDER

Location: Exmouth Seafront, UK

Project Dates: March 2018

Clients: Lewis Brown Chartered Land Surveyors

Scope of work:

- Single beam bathymetric survey for 400m section of seafront
- Shallow survey to overlap with intertidal data
- Data provided for coastal sea defence

PROJECT DESCRIPTION

Lewis Brown Chartered Land Surveyors contracted CMAR to undertake a nearshore bathymetric survey of a short section of Exmouth seafront to help map the shoreline. A low-cost high-resolution dataset was required for a small area overlapping with topographic surveys undertaken by the client.

Our survey vessel CODY was the ideal platform for a rapid deployment from the public slipway and was able to access shallow regions in a controlled manner despite strong tidal flows.

Dense spatial coverage was achieved using a single beam echo sounder covering the full extent of the survey region.



Above: RV Cody our inshore survey vessel with RTK GPS and single beam echo sounder

Right: Aerial image of Exmouth seafront showing the spatial resolution of the raw survey points collected over one high tide. Symbol colours indicate depth with coverage from 0 to -18m ODN.

