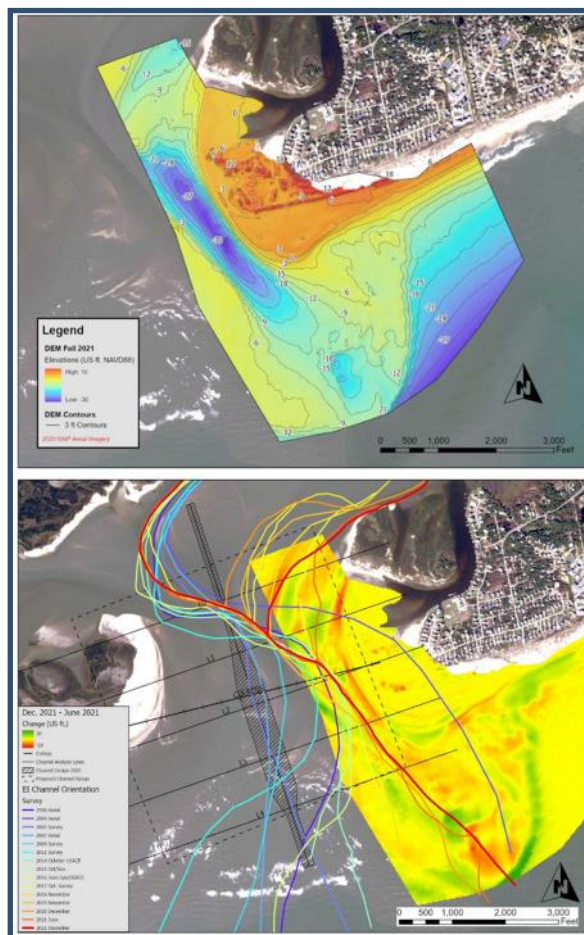


geodynamics
AN NVIS COMPANY

- Semiannual topo-bathymetric surveys since 2012 to present.
- Merged DEM delivery products used to provide geomorphic change analysis of the inlet complex.
- Spatially-consistent, “virtual transects” developed to provide meaningful statistics for inlet management and protection of infrastructure.

Beginning in Spring 2012, Geodynamics was retained to perform semiannual surveying (2/year) at Bogue Inlet and the adjacent area of the Point in Emerald Isle, N.C. The main channel of Bogue Inlet was threatening property and infrastructure until the channel was dredged in 2005 to a position equidistant within the inlet floodway between Emerald Isle, and Bear Island to the west. The purpose of the survey program is to monitor the movement of the inlet channel thalweg and the response of adjacent shorelines to assess the overall effectiveness of the channel relocation project and for design considerations if/when the thalweg needs to be repositioned again. Geodynamics developed a series of customized metrics to help



Bottom: Overlay of previous inlet positions, “virtual transects”, and a shaded volume change map specifically developed by Geodynamics for the client’s inlet management goals.

Carteret County and Town of Emerald Isle

