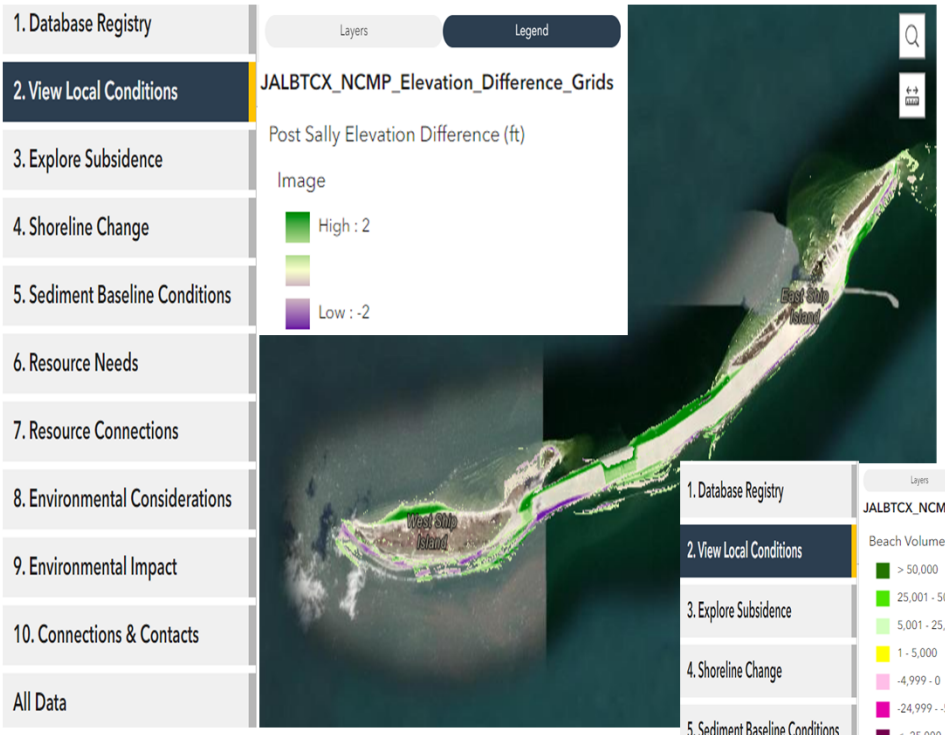
Natural Infrastructure Opportunities Tool (NIOT)

How can projects utilize the NIOT web-viewer?

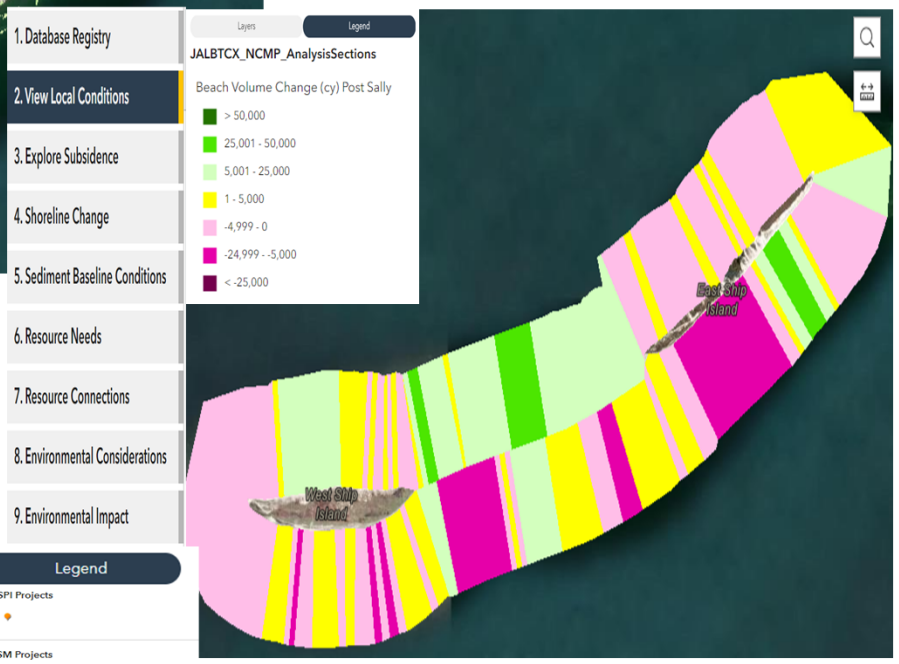
NIOT offers map-based data layers showing local conditions such as elevation differences and beach volume change for post-hurricanes as well as historical storm paths and data. NIOT provides information useful to projects that are combating the consequences of past hurricane damage and navigational dredging activities that have altered sediment availability.

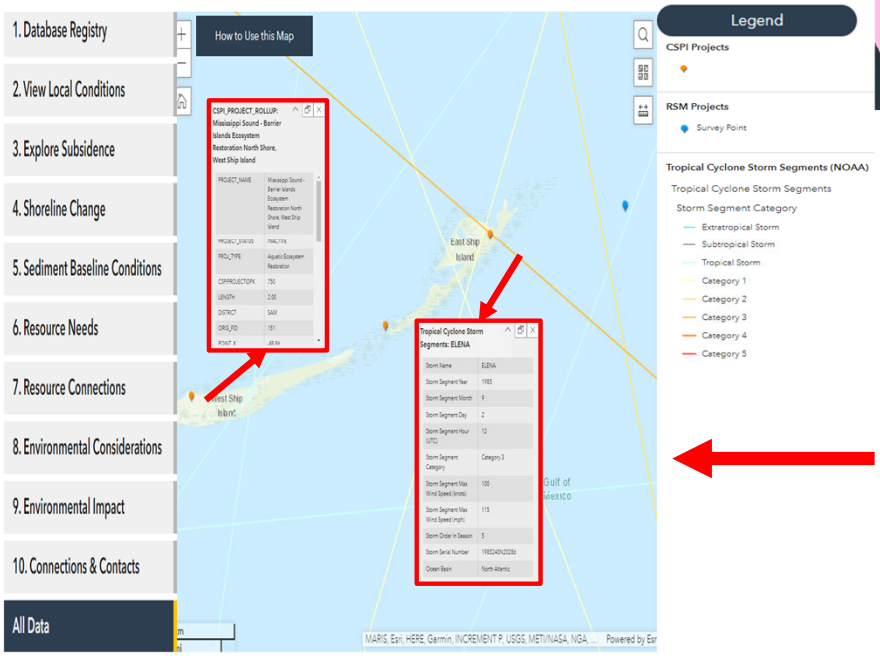


These maps illustrates **Post Hurricane Sally (2020)** elevation difference and beach volume change. This information provided by the web-viewer is useful when deciding placement of dredging material as well as helps understand the impacts of hurricanes erosion in the area.

Can NIOT be utilized for erosion control projects?

Using NIOT, project managers can elucidate the effects of past storm damage and contribute new data on storm events. Tab 2: Local Conditions: provides information (i.e. historical/past data) elevation data for post-hurricanes.





Why is NIOT necessary?

Using NIOT project managers can elucidate the effects of past storm damage and contribute new data on storms. This would be useful in projects like the **2013 Restoration of Ship Island** conducted by USACE Mobile District. This project included sand placement in Camille Cut and replenishment of the shorelines.

A unique feature to NIOT is the All-Data tab that allows users to display multiple layers from different tabs on one map. For example, the figure to the left displays historical storm tracks and data as well as RSM projects completed in the area