

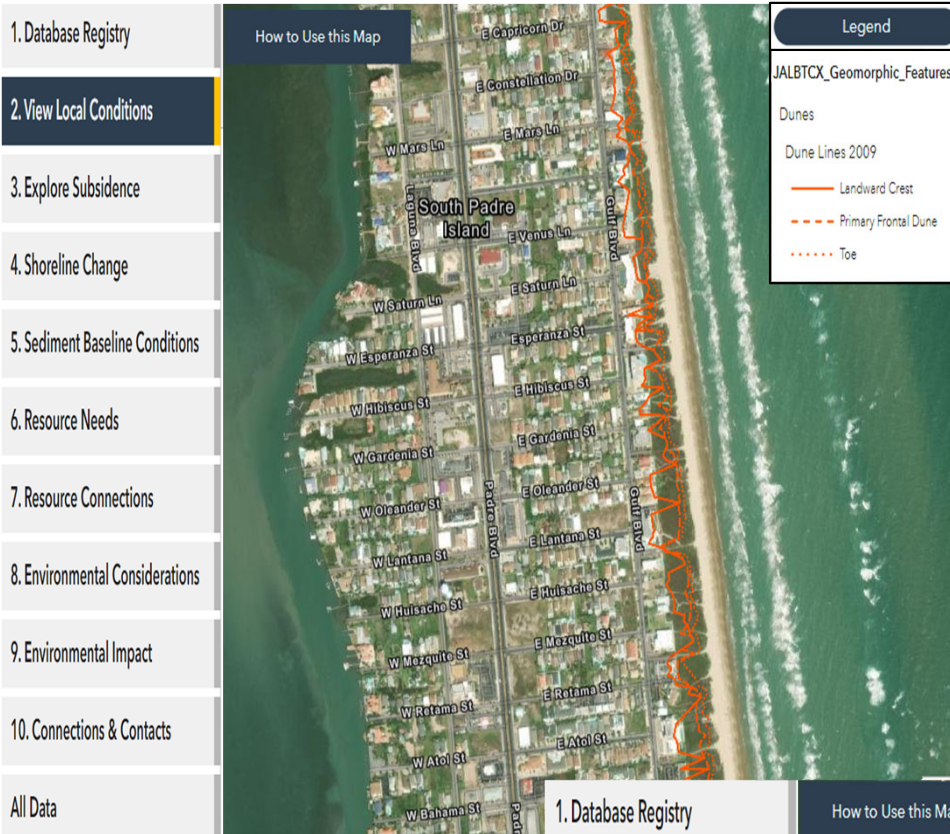
Why is NIOT necessary?

NIOT offers map-based data layers showing geomorphic features of bluffs and dunes that can support projects related to beach nourishment and habitat creation.

Can NIOT be used for nourishment projects?

Dune construction and reconstruction is commonly carried out during beach nourishment projects. NIOT offers data layers in [Tab 2: Local Conditions](#) that map dunes over time. This can assist how project managers and agencies determine coastal flood hazards.

[Tab 2: Local Conditions](#) Offers visualizations of dune lines in 2009 and 2016. Data such as this is important to beach nourishment projects as well as coastal flood mapping. Projects can also contribute data to NIOT.



How can projects utilize the NIOT web-viewer?

NIOT has the capabilities to not only inform project managers but to also allow data from completed projects to be added into the viewer.

USACE Galveston District completed a beach renourishment in 2013 using ~300,000 cubic yards of dredged material excavated during routine periodic maintenance. NIOT has the potential to inform on all procedures in the project from where to retrieve sediment, environmental impacts/consideration when placing the sediment, and environmental changes over time.

