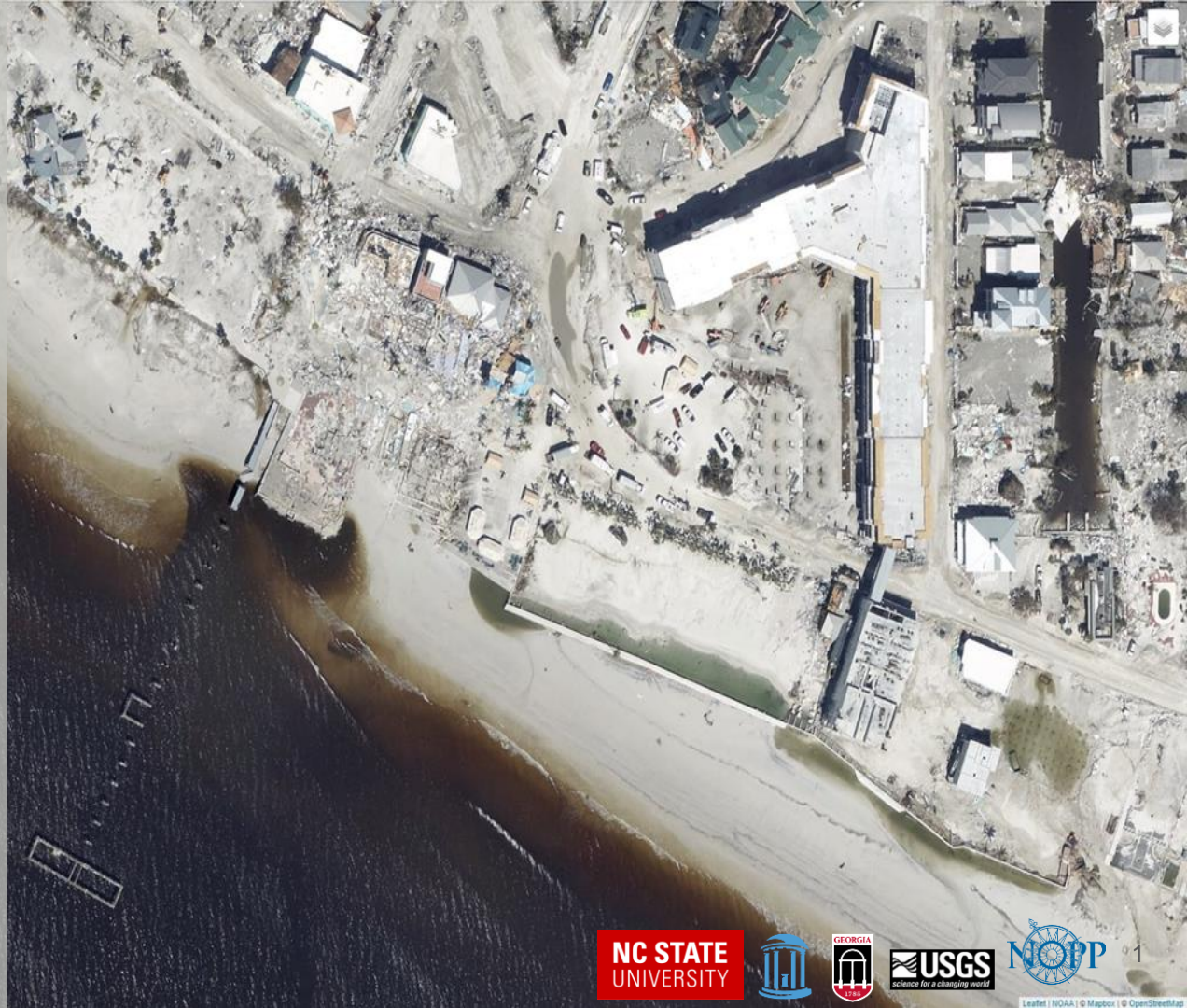
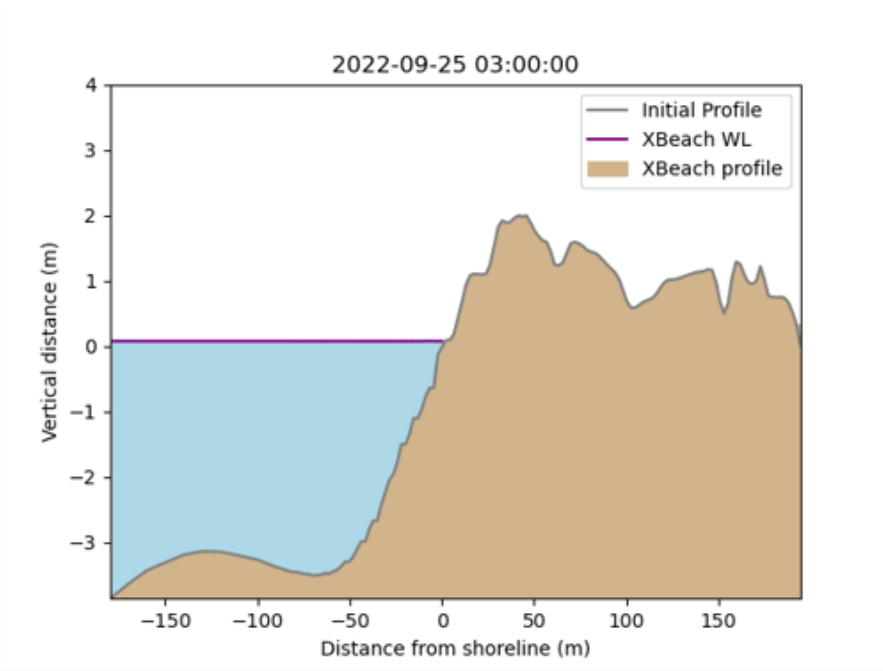


Deterministic, Dynamic Forecasts of Storm-Driven Erosion during Ian (2022)

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1D morphological models capture storm-driven erosion



Ran hundreds of simulations in real time



Welcome!

The map on this page displays the shoreline locations for the most recent set of 1D XBeach simulations.

Modeled results are classified as either:

- swash/collision (green)- water level does not reach the dune crest
- overwash/inundation (red)- water level reaches and/or surpasses the dune crest

The topographic-bathymetric (topo-bathy) profiles were developed by fellow NOPP collaborators [Mickey & Passeri 2022]. Water levels at the crest are determined by XBeach output.

Click on any icon to view the shoreline latitude/longitude, the predicted storm impact regime, and a link to the plotted model results.

Any comments or questions can be sent to jfgorski@ncsu.edu



HURRICANE NICOLE

Results influenced by track uncertainties

IAN 9-29-12 Dune Crest Elev Change

