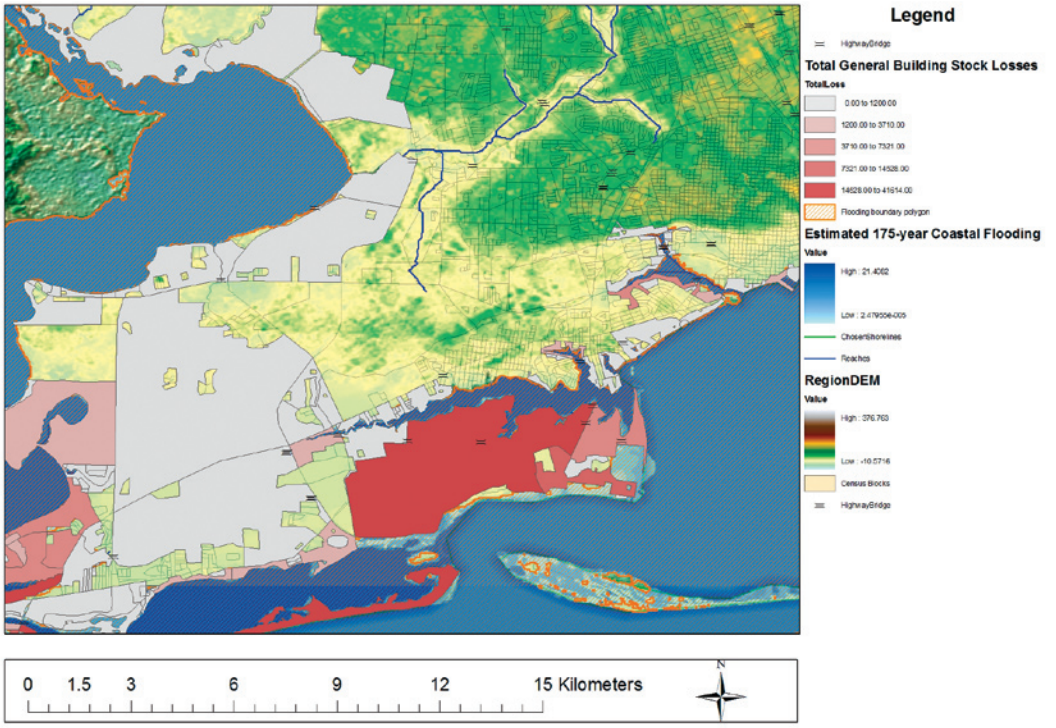
HAZUS-MH APPLICATION: FLOOD

Coastal Flooding in Escambia County, Florida from Hurricane Ivan



DATA AND ANALYSIS DISPLAYED:

- Coastal flood depth grid, developed using the estimated SWEL (produced by the SLOSH model analysis, performed at landfall).
- Estimated total general building stock (GBS) damage that was generated from the coastal inundation, erosion, and wave impacts.
- Transportation Facilities - Highway bridges from the HAZUS baseline data.
- USGS 1-arcsecond digital elevation model.
- Study region boundaries - US Census data

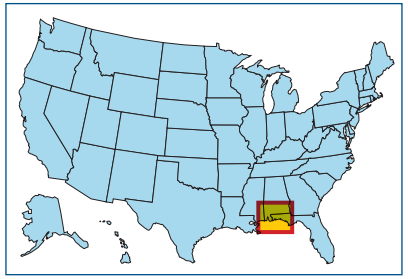
POTENTIAL USES

Pre-Disaster:

- Identification of the extent of inland flooding from the storm using predictive SWEL developed by the SLOSH models.
- Identification and ranking of census blocks that are likely to be damaged in the predicted hurricane event.
- Identification of staging areas for pre-position of response personnel, supplies and other resources.
- Identification of areas that may experience heavy damage to bridges and general building stock, conditions that could increase shelter requirements and the demand for disaster assistance.

Post-Disaster:

- Identification of bridges that should be inspected.
- Identification of streets that may be impassable.
- Identification of damaged areas in the study region that have a high probability of generating shelter needs and requirements for debris removal.
- Identification of of areas that can be targeted for mitigation programs, including the Hazard Mitigation Grant Program (HMGP).



FEMA