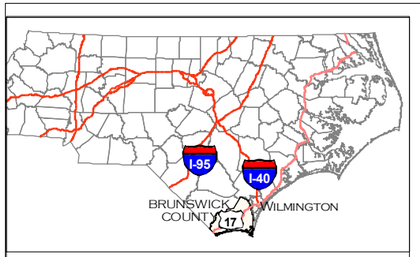
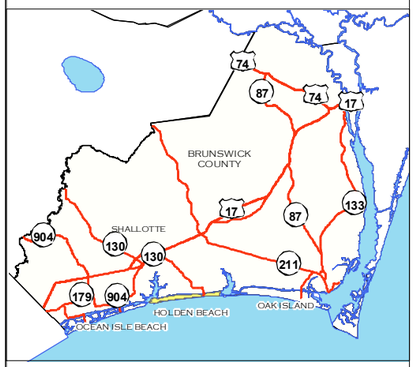
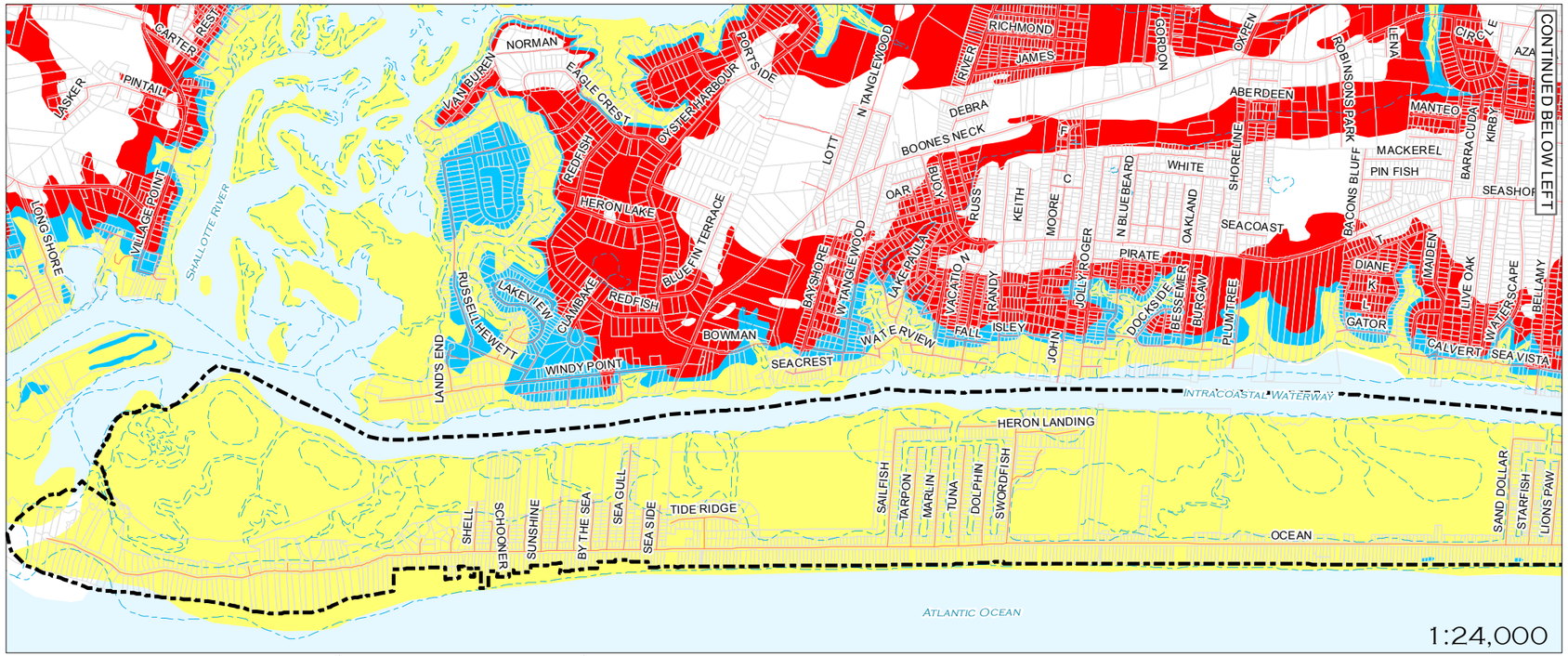
Town of Holden Beach

CAMA Land Use Plan

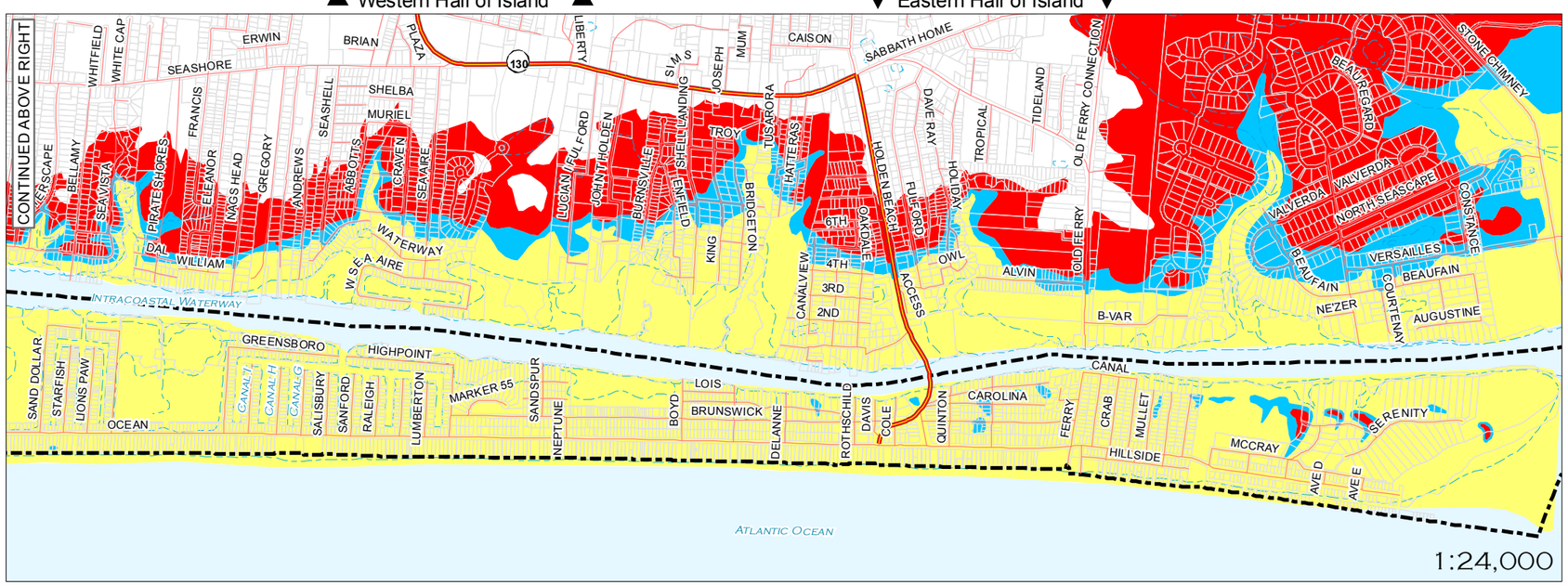
Map of Storm Surge Inundation from a Fast Moving Hurricane







▲ Western Half of Island ▲ ▼ Eastern Half of Island ▼



Legend

- Primary Road
- City Limits
- Streams/Shorelines

Storm Surge Hurricane

- Category 1 & 2
- Category 3
- Category 4 & 5

Hurricane Storm Surge Innundation Area (Fast Moving Storm) The National Hurricane Center, in cooperation with the North Carolina Center for Geographic Information and Analysis, developed the GIS data set, Hurricane Storm Surge Inundation Areas (1993), to reevaluate the extent of the areas affected by hurricane inundation along the North Carolina coast. The data depicts the extent of hurricane storm surge inundation areas based on SLOSH (Sea, Lake, and Overland Surges from Hurricanes) models, for the North Carolina coast. The FAST model depicts hurricanes with forward velocities greater than 15mph. Storm surge is water that is pushed toward the shore by the force of the winds swirling around the storm. This advancing surge combines with the normal tides to create the hurricane storm tide, which can increase the mean water level 15 feet or more. In addition, wind driven waves are superimposed on the storm tide. This rise in water level can cause severe flooding in coastal areas, particularly when the storm tide coincides with the normal high tides. The storm surge inundation area data used for the planning jurisdiction is based on the SLOSH Model developed by NOAA's National Weather Service.

Map is to be used for general informational purposes only. Spatial data used to generate this map was gathered from disparate sources and represent a condition at a fixed period in time. 100% accuracy of spatial data to current circumstances cannot be guaranteed.

The preparation of this map was financed in part through a grant provided by the North Carolina Coastal Management Program, through fundsprovided by the Coastal Zone Management Act of 1972, as amended, which is administered by the office of Ocean and Coastal Resources Management, National Oceanic and Atmospheric Administration.

Cape Fear Council of Governments

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NORTH

1 inch equals 2,000 feet
1 inch equals 0.38 miles

1:24,000

0 2,000 4,000 8,000 12,000 16,000 20,000 Feet

0 0.5 1 2 3 4 Miles

DRAFT

Map Created
2/28/06