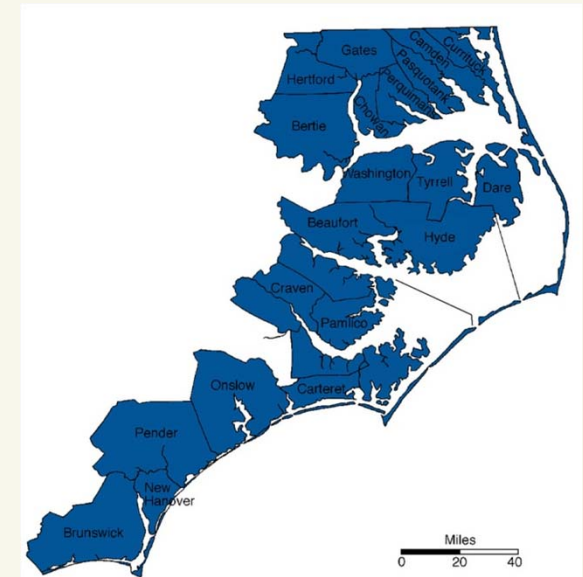




Repeal of High Hazard Flood Area of Environmental Concern



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Areas of Environmental Concern

- Estuarine and Ocean System
 - Public trust waters and submerged lands, estuarine waters, coastal wetlands, and coastal (non-ocean) shorelines
- Public Water Supplies
- Natural and Cultural Resource Areas
- **Ocean Hazard Areas**



Ocean Hazard AECs

- **Ocean Erodible Area**

- Area in which substantial possibility of erosion
- Measured from vegetation line
- $(60 \times \text{Erosion Rate}) + \text{Storm Recession Model}$
- Minimum 120 feet

- **High Hazard Flood Areas**

- Area subject to high velocity waters (V-Zones)
on Flood Insurance Rate Maps



Ocean Hazard Area (AECs)

- **Inlet Hazard Areas**

- Areas especially vulnerable to erosion based on proximity to inlets
- Originally designated based on 1981 report to Coastal Resources Commission

- **Unvegetated Beach Area**

- No stable natural vegetation
- Permanent or temporary basis



Ocean Hazard Area (AECs)

- Graduated setbacks depend on building size
30 x erosion (if < 5K sf); 90 x (if > 100K sf)
- Protections for frontal dunes, public access
- Prohibitions on permanent erosion control structures
- Temporary Erosion Control/Sandbag rules
- Beach Nourishment, Dune Stabilization
- Building Construction Standards
- Exceptions



Ocean Erodible (AECs)

- The OEA boundary is defined oceanward by mean low water (MLW) and landward by a distance measured from the **first line of stable and natural vegetation** equal to **60** times the long-term annual erosion rate (ER).
- The landward extent of the OEA also includes the distance of shoreline recession that would be generated from a 100-year storm event (SR). The shoreline recession model has a minimum and maximum value of 25 and 330 feet, respectively. The current OEA width formula can be simplified as: **OEA = [(60 x ER) + SR]**.

Ocean Hazard AEC

Sound

100-Year Recession Line

90 X Erosion Rate



OEA



OHA



Ocean



High Hazard Flood AEC

- Established in 1979 – not one of the original AECs
- Provide consistency in construction standards with the NFIP
- Requires compliance with
 - NC Building Code
 - Coastal Floodplain Const. Standards
 - Local Flood Damage Prevention Ordinances
 - Supported by Pilings
- Provide foundation stability during major storm events



High Hazard Flood AEC

- Hurricanes of 1990's → FEMA Updates FIRM
- Update resulted in expansion of velocity "V-Zones"
- Expanded CRC permitting jurisdiction
 - HHF AEC identified as V-Zones on FIRM



NC Building Code

- **Coastal High Hazard Flood Areas (V-Zones)**
 - V-Zones (NFIP)
 - Ocean Hazard Areas (CRC)
 - Flood Plain Areas (USACE)
- **Standard for piling-supported structures**
 - Piling composition
 - Dimensions (width or diameter)
 - Minimum depths

Structures must comply with NC Building Code & local flood ordinances



Single Family Exemption

15A NCAC 7K .0213

- Exempted from CAMA permit
 - Not located in OEA
 - Constructed on pilings
 - Comply with NC Building Code
 - Comply with local flood damage prevention ordinances
 - Require no other state/federal authorizations
- No Permit Required - \$50 fee



Repeal of High Hazard Flood AEC

- CRC rules defer to NC Building Code, NFIP, Local Ord.
- Removes ~ 15,000 properties from HHF jurisdiction
- V-Zones can extend to sound in some areas
 - Properties in this area still subject to CAMA jurisdiction
 - Coastal Shorelines AEC standards still apply
- No effect on OEA, IHA, or setbacks
- Would not affect CRS credits under NFIP



Parcels In HHF AEC

• Currituck	910
• Dare	2,939
• Hyde	55
• Carteret	1,213
• Onslow	1,593
• Pender	661
• New Hanover	2,364
• Brunswick	<u>5,859</u>
TOTAL	15,594

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Removal of HHF AEC - Impacts

- Removes a significant number of properties from permitting jurisdiction.
- These properties (located in the FEMA V-zone but outside of the Ocean Erodeable Area AEC and Inlet Hazard Area AEC) would continue to comply with the NC Building Code and local flood damage prevention ordinances as required by the NFIP.
- No longer required to obtain a CAMA permit exemption.
- **Loss of AEC Hazard Notice**



Questions?

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What's New?

- Feb. 2012 CRC Meeting Materials
- **Emergency General Permit - Hurricane Irene**
- 2011 Erosion Rate Update Study
- Sea Level Rise Information Page
- N.C. Beach & Inlet Management Plan Final Report
- Revised DRAFT CRC Sea Level Rise Policy
- NC CELCP
- Offshore Energy Presentation
- Final Ocean Policy Study
- Committee Report: Developing a Management Strategy for N.C.'s Coastal Ocean
- NC Beach and Inlet Management Plan
- Fast Facts

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