



## **Effectiveness of Protection of Tidal Creeks**

## **Individual Permits FY2011**

<u>State</u>	Coastal	<u>Inland</u>	Pct. Coastal
NC	58	48	55%
SC	114	51	69%
GA	22	45	33%
FL (Atlantic	354	91	80%

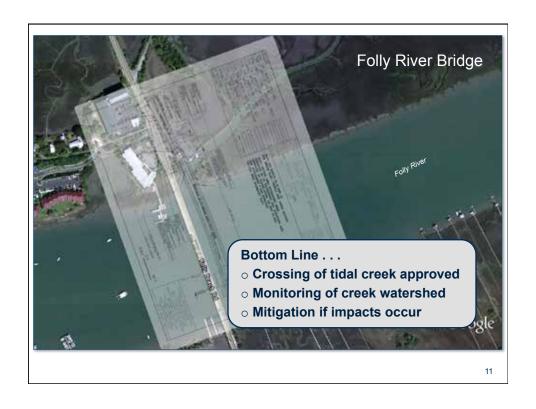
Bottom line . . .

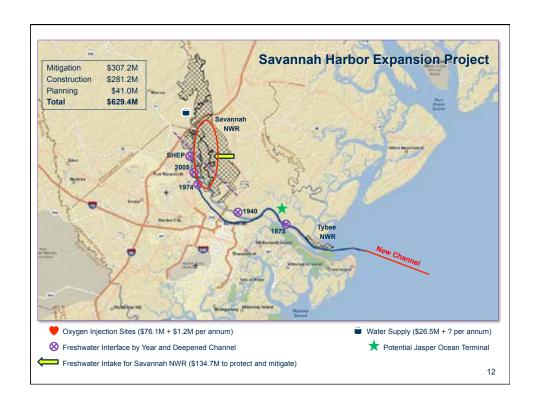
States with strong coastal programs have less development at coast

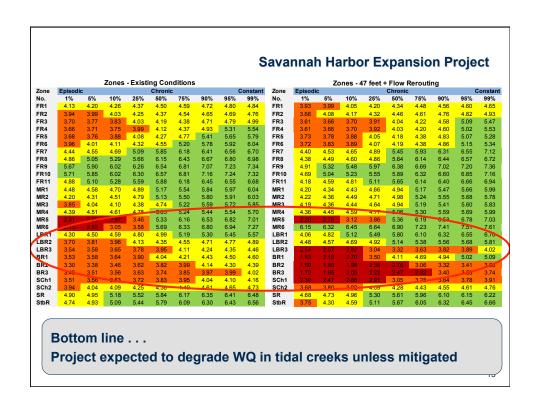


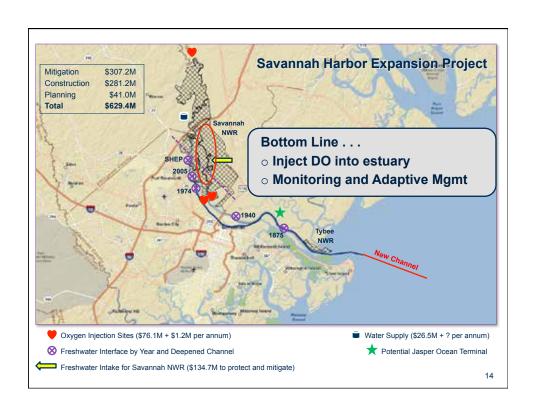














## **Summary Observations on Protection of Tidal Creeks**

- Effectiveness of federal authorities varies and inversely correlates with population growth and development
- Effectiveness of federal efforts also strongly and directly correlates with the strength of parallel programs administered by state agencies
- Proposals to directly impact tidal creeks (e.g., point source discharges, dredging and filling) are relatively easy to identify and address within existing regulatory frameworks, indirect impacts (e.g., non-point-source runoff, reduced tidal prism, and impacts that cascade into a creek from outside areas) are more difficult to forecast and address

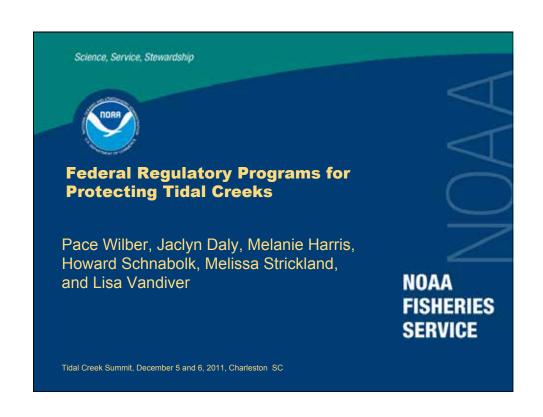
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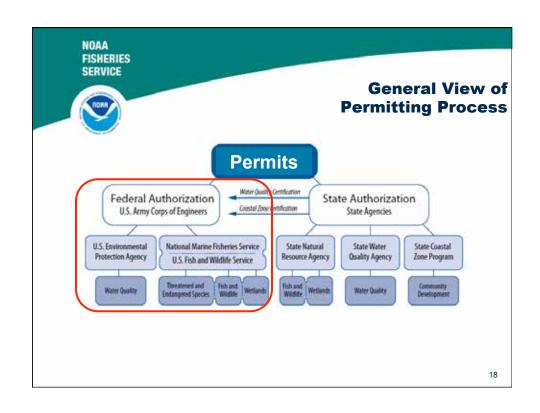
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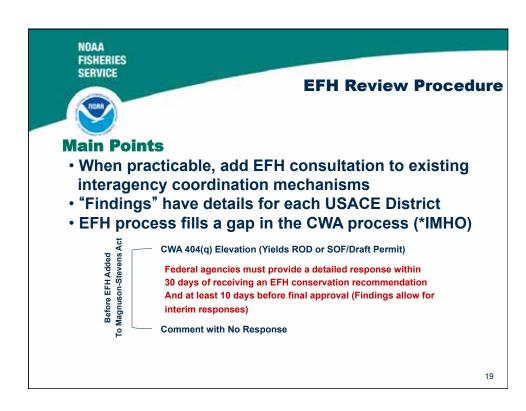


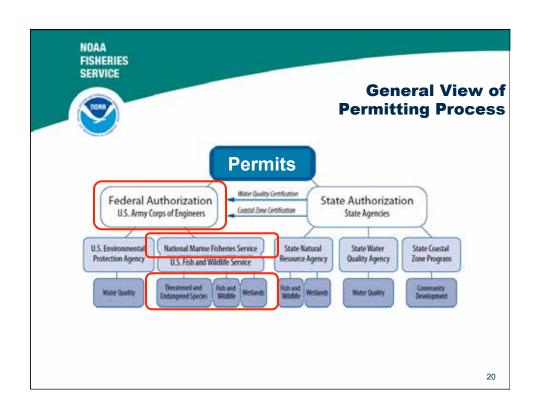
## **Summary Observations on Protection of Tidal Creeks**

LevelB	Players	Role	Tidal Creek Focus
Federal	COE	Clean Water Act Permit	Natural Res.
	EPA, FWS, NMFS	Assistance to COE	Hydrology
State	WQ agency	Water Quality Certification	Water Quality,
	Coastal agency	Coastal Consistency Cert.	Stormwater,
	Habitat agency	Assistance to all	Buffers
Local	Zoning boards Develop. Agency	Zoning Variances Building permits	Land use Stormwater, Buffers







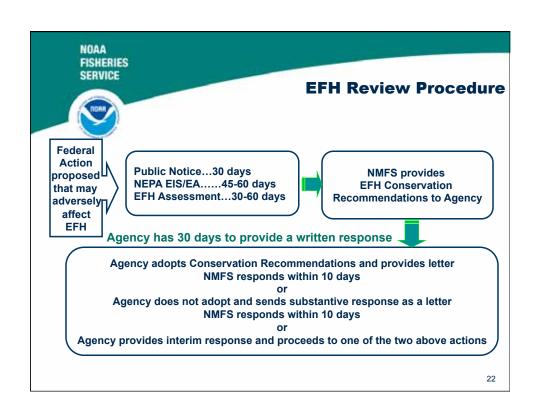




#### **EFH Review Procedure**

#### What is EFH?

- Exists only for species that have a federal fishery management plan
- Designated through amendments to federal fishery management plans (individually or via a comprehensive amendment)
- Technical basis of each designation within report or comprehensive habitat/ecosystem plan
- Habitat Area of Particular Concern (HAPC) is a subset of EFH





### Review Authorities for Projects within Tidal Creeks

### **Habitat, Water Quality, Land Use**

- Fish and Wildlife Coordination Act
- Clean Water Act
- Coastal Zone Management Act
- Magnuson-Stevens Act

### **Protected Species**

- Endangered Species Act
- Marine Mammal Protection Act

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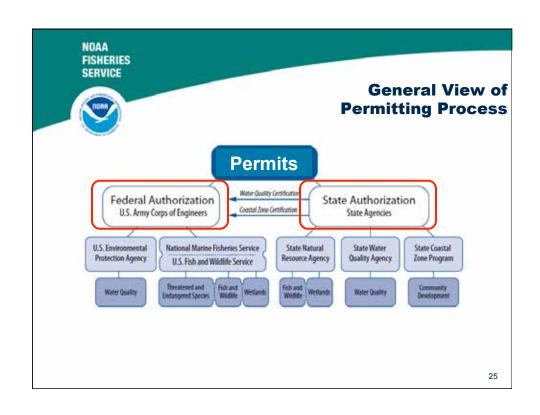
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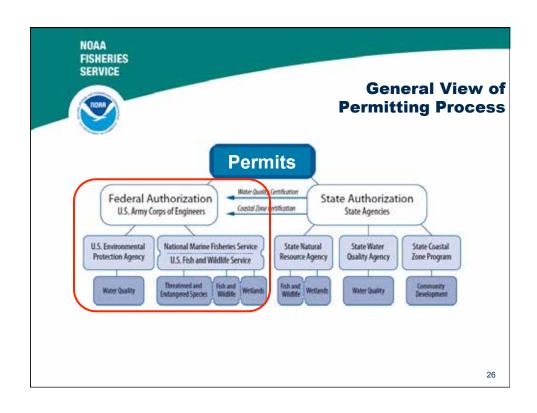


## Magnuson-Stevens Act and Essential Fish Habitat (EFH)

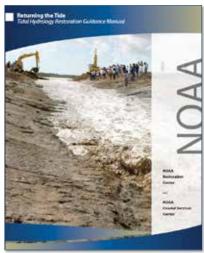
- "One of the greatest long-term threats to the viability of commercial and recreational fisheries is the continuing loss of marine, estuarine, and other aquatic habitats"
- EFH are "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity"
- Consultation requirements for federal agencies when an adverse impact to EFH is proposed

50 CFR Part 600

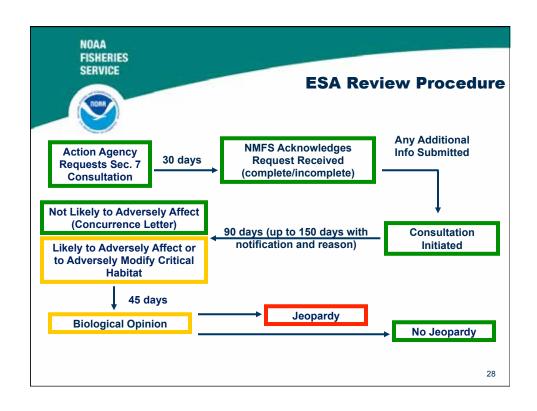








www.habitat.noaa.gov/restoration/approaches/hydrologicrestoration.html





#### **Endangered Species Act**

#### **Summary**

- Conservation, management and recovery
- Federal agencies shall ensure their actions are not likely to jeopardize the continued existence of listed species or result in destruction or adverse modification of critical habitat
- Federal agencies shall utilize their authorities to further the Act, e.g., development of appropriate terms and conditions for permits or licenses

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#### **Marine Mammals**

### Legislation

- Marine Mammal Protection Act (MMPA) 1972
- Title IV of MMPA 1992 established Marine Health and Stranding Response Program (MMHSRP)
- Endangered Species Act

### **Species Jurisdiction Under MMPA**

- NOAA Fisheries: Cetaceans, Pinnipeds (Except Walrus)
- USFWS: Manatees, Sea Otters, Polar Bears, Walrus

#### EFH\*

- Seagrass
- Mangroves
- Tidal Inlets
- Coral, hardbottom, worm reefs
- Palustrine & estuarine wetlands
- Ovster reefs
- Mud flats
- Sargassum
- Aquatic beds & macroalgae
- Artificial reefs
- \* See SAFMC (1998) for full list

#### What is EFH to SAFMC?

# Habitats Areas of Particular Concern (HAPCs)\*

- Seagrass
- Mangroves
- Tidal Inlets
- · Coral, hardbottom, worm reef
- Biscayne & Florida Bays
- Grays Reef NMS
- Florida Keys NMS
- Bogue Sound
- Charleston Bump
- Oculina Bank
- Ten Fathom Ledge

