

**Appendix O. Status and Availability of Essential Fish Habitat Information - Southeast Habitat Partners (Source: SAFMC EFH Workshop 1 & 2 ).**

**Summary: Essential Fish Habitat Workshops #1 & #2**

**GIS Presentation of EFH Information-**

- **ArcView will be the Software Platform and Format for EFH Maps**
- **The Two Proposed Levels of Resolution for EFH maps are to the Estuary and to the State and / or Region.**  
**In Habitat Plan - maps fit the estuary (Use Estuarine Drainage Areas (EDA))**  
**(e.g., ESI Maps, National Wetland Inventory Maps, Aids to Navigation NOAA/USCG)**  
**In Comprehensive Habitat Amendment - Maps to the State and/ or Regional Level**
- **EFH and Species Distribution and Environmental Parameters: [Use C-Cap Land Cover, Wetland, and Water and Submerged Land Classifications overlaid on NOAA Bathymetry]**

**UPLAND**

- Developed High Intensity
- Developed Low Intensity
- Grassland
- Cultivated Land
- Evergreen Forest
- Scrub/Shrub
- Bare Land
- Mixed Forest Deciduous Forest
- Water

**WATER AND SUBMERGED LAND**

- Submersed Rooted Vascular (SRV)**
- Coral & Live Bottom**
- Unconsolidated Shore**  
**(Mud and Sand Flats)**

**WETLAND**

- Estuarine**
- Forest (>20ft)
- Shrub/Scrub (Mangroves in FL)
- Emergent (Salt & Brackish Marsh)  
 (Uses Juncus Break)

**Palustrine**

- Forest (>20ft)
- Shrub/Scrub
- Emergent (Freshwater Marsh)

**Use ESI Maps for NC, SC & GA**  
**Terrestrial Emergents shoreward**  
**\*C-Cap gaps in GA and northern**

## Sources and Availability by State of Essential Fish Habitat Distribution Information

**ESTUARINE:**

**Saltmarsh & Brackish Marsh/ Estuarine Emergent**

Source	NC	SC	GA	FL
C-CAP				
NWI		((partial))		
NCWI				
CZM				

**Fresh Marsh / Palustrine**

Source	NC	SC	GA	FL
C-CAP				
NWI		((partial))		
NCWI				
CZM				

**Mangroves**

Source	FL
NWI	
FMRI Land Use	

**Mud & Sand Flats / Unconsolidated Bottom**

Source	NC	SC	GA	FL
ESI				
FMRI				FKNMS & Biscayne Bay
C-CAP				
OCRM		((riprap))		
NWI				
Shellfish Map- State				
APES				
NOAA SEA				

**Submersed Rooted Vascular (SRV- Seagrass)**

Source	NC	SC	GA	FL
ESI				
C-CAP				FKNMS & Biscayne Bay
CGIA				
INDIAN RIVER				
NOAA CSC				

## Sources and Availability by State of Essential Fish Habitat Distribution Information- (cont.)

### ESTUARINE

#### Oyster / Shell Habitat

Source	NC	SC	GA	FL
NC SHELLFISH	:			
NC CULTCH	:			
NC LEASES	:			
ESI	:	:	:	:
N. SHELLFISH REG.	:	:	:	:
SC MARINE DIVISION	DHEC Class.	:		
PAPER	Poly Water Quality			:
FMRI				
Water Quality				:
Closures				:
Leases				:

#### Environmental Parameters

PARAMETERS	NC	SC	GA	FL
AVHRR	CSC	CSC	CSC	CSC
TEMP	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
SALINITY	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
DEPTH	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
TURBIDITY	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
POLLUTANT LOADS	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
NUTRIENTS	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA
DISOLVED OXYGEN	Div WQ	Eutr.	Eutr.	Eutr.
	Eutr.			
PESTICIDES	NOAA SEA	NOAA SEA	NOAA SEA	NOAA SEA

### OFFSHORE

#### Coral, Coral Reefs, and Live/Hard Bottom Habitat

##### Source:

South East Area Monitoring and Assessment Program (SEAMAP) - Bottom Mapping Project

FMRI

NOAA Grays Reef

Florida Keys National marine Sanctuary

##### Artificial Reefs

State Inventories

National Artificial Reef Plan

SEAMAP

## Sources and Availability by State of Essential Fish Habitat Distribution Information- (cont.)

**Pelagic Habitat**

**Sargassum**

NOAA NOS Dist. DB

**Water Column**

Currents NOAA NOS

Depth NOAA NOS

Temperature Dynamic Analysis

Salinity NOAA NOS

## Sources and Availability of Information on Managed Species Distribution by Life Stage and by State

Florida					
	Adult	Larvae	Juvenile	Eggs	
Penaeid Shrimp	!		!		
Rock Shrimp	!				
Red Drum	!	!	!		
Snapper/Grouper					
King Mackerel	! NOAA	! N FL	!		
Spanish Mackerel	! NOAA	! N. FL			
Dolphin	!				
Little Tunny	?				
Cobia	?				
Golden Crab	?				
Calico Scallops	!	!	!	ESI Data	
Spiny Lobster	!	!	!	ESI Data	
Coral & Live Bottom	!			ESI Data	



**Sources and Availability of Information on Managed Species  
Distribution  
by Life Stage and by State (cont.)**

<b>North Carolina</b>					
	<b>Adult</b>	<b>Juvenile</b>	<b>Larvae</b>	<b>Eggs</b>	
Penaeid Shrimp	:	:	:		
Rock Shrimp	:	:			
Red Drum	:	:			
Snapper/Grouper	:	:	:		
King Mackerel	:	:	:		
Spanish Mackerel	:	:	:		
Dolphin	:	:			
Little Tunny	:		:		
Cobia	:	:	:		
Golden Crab	:				
Calico Scallops	:	:			
Spiny Lobster	:	:			
Coral & Live Bottom	:				