

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.)

Georgia					
	Adult	Larvae	Juvenile	Eggs	
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					
(* Fishery Dependant Data)					

South Carolina					
	Adult	Juvenile	Larvae	Eggs	
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					

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

North Carolina					
	Adult	Juvenile	Larvae	Eggs	
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	:				