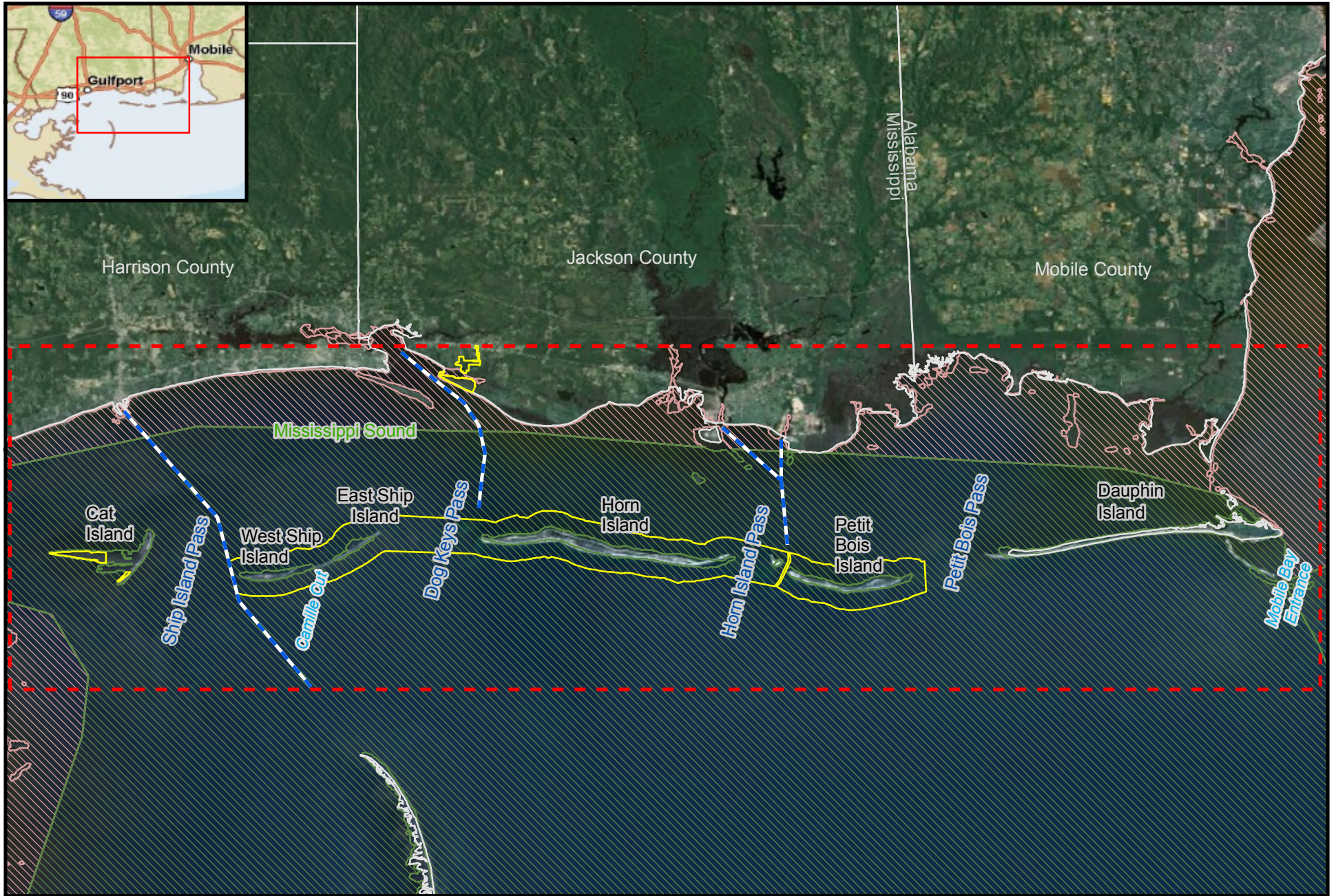


Appendix O
Essential Fish Habitat Maps



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Brown Shrimp Offshore Habitat
- Nursery Area
- Adult Area

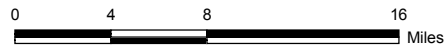
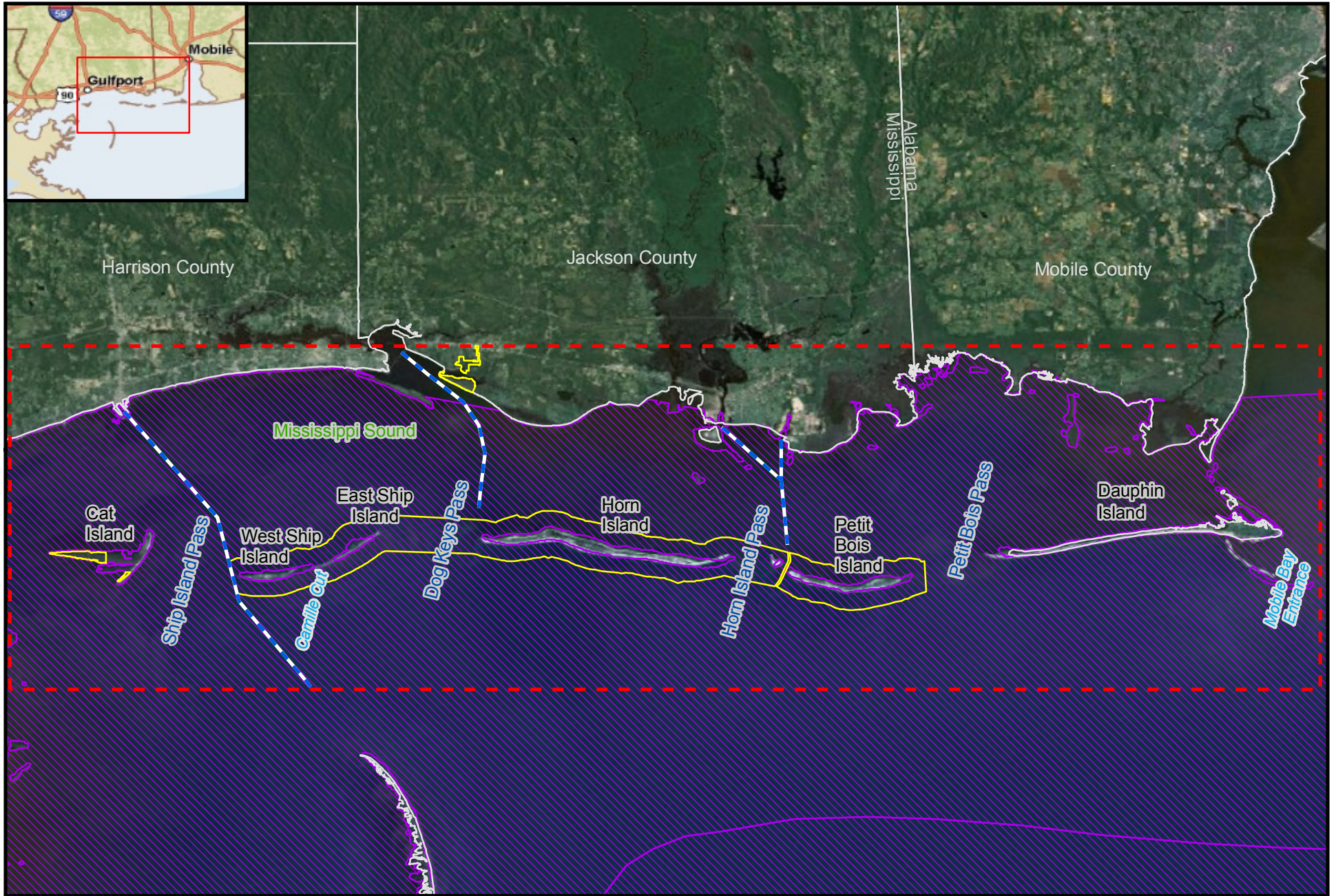


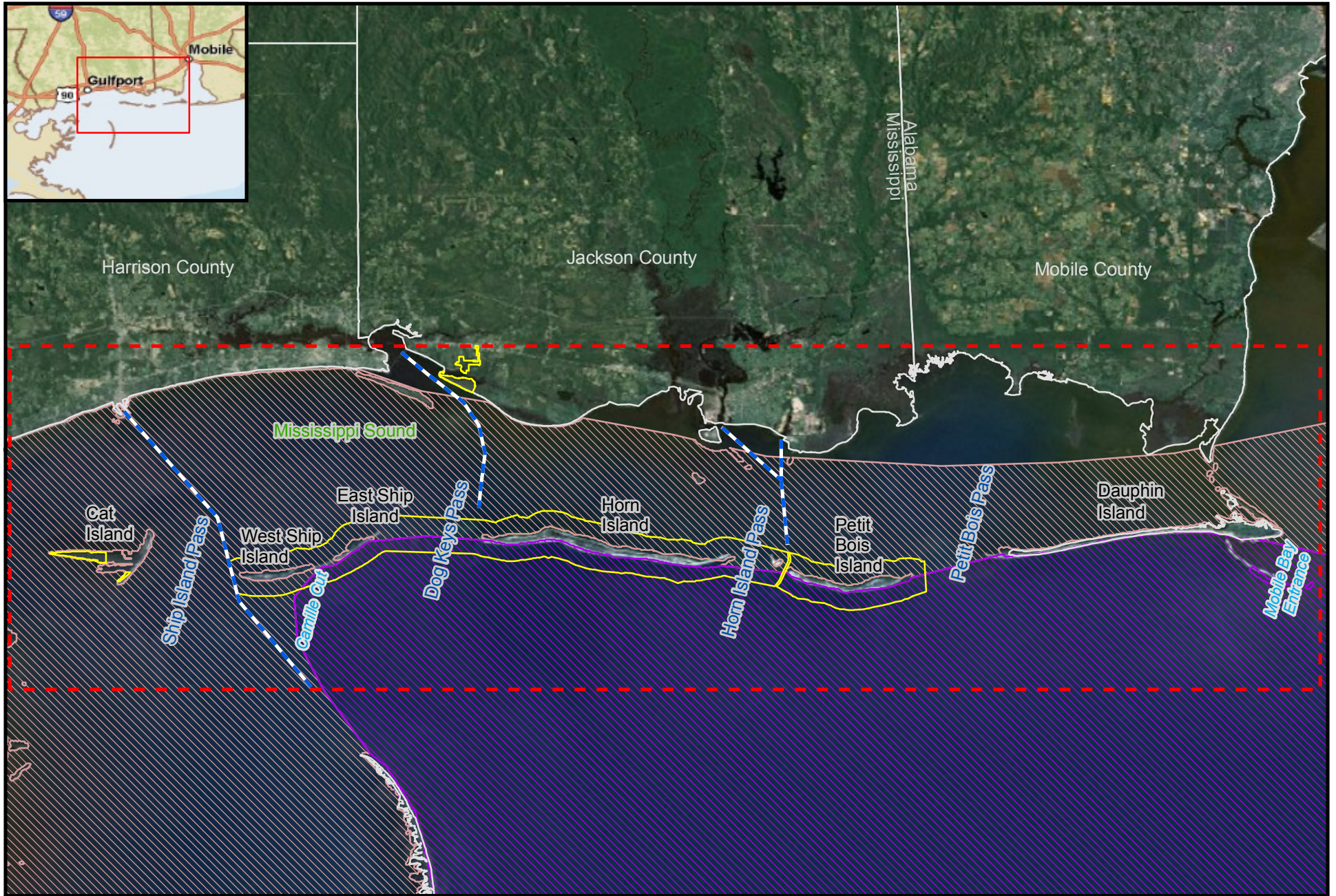
FIGURE 1
ESSENTIAL FISH HABITAT BY SPECIES - BROWN SHRIMP
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- — — — Deep Draft Shipping Channel
- Project Area
- Gulf Islands National Seashore
- Cobia Offshore Habitat**
- Spawning Area (Spring, Summer)



FIGURE 2
ESSENTIAL FISH HABITAT BY SPECIES - COBIA
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Nursery Area (Year-round)
- Spawning and Adult Area

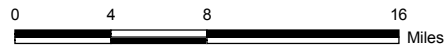
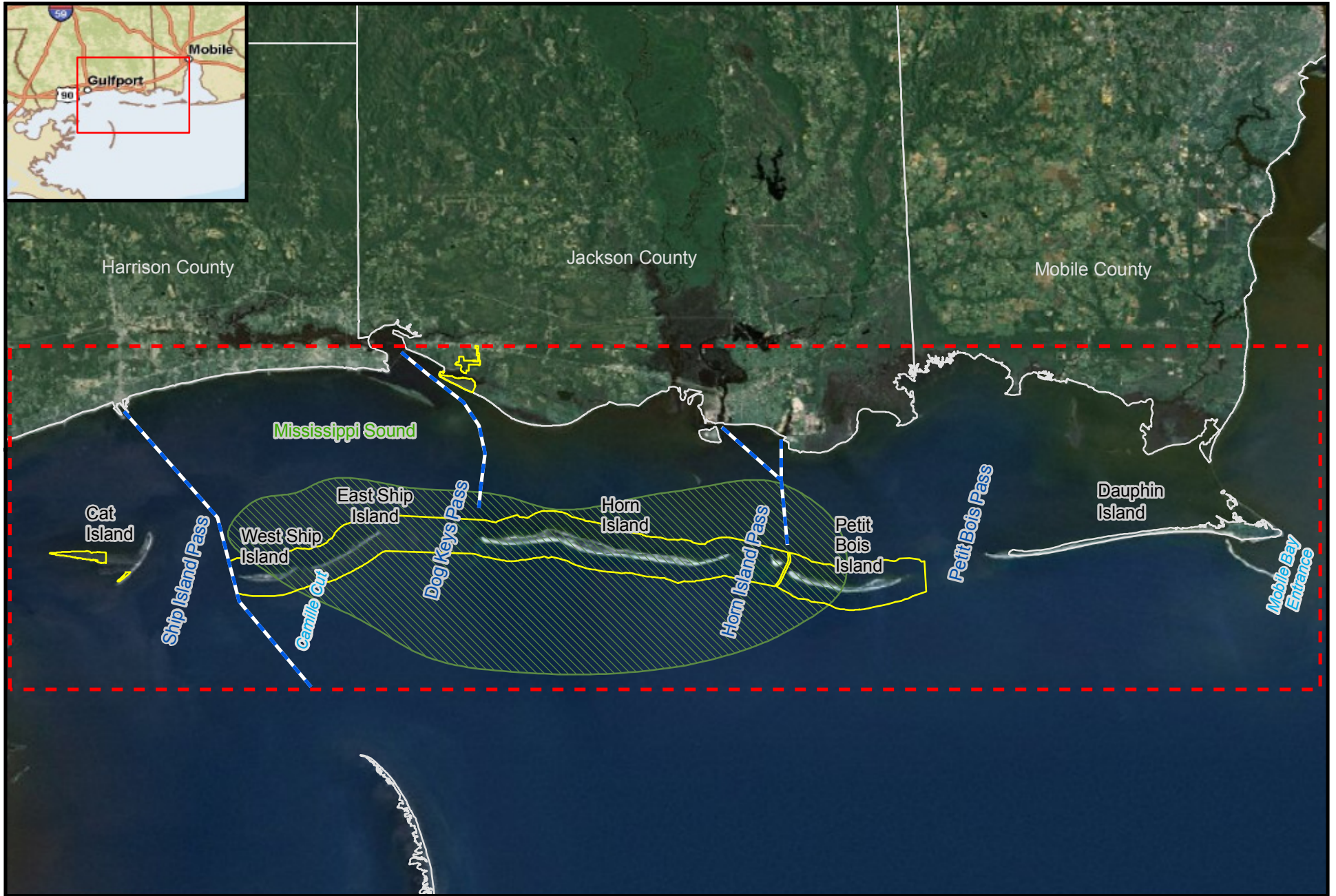


FIGURE 3
ESSENTIAL FISH HABITAT BY SPECIES - GRAY SNAPPER
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Gray Triggerfish Offshore Habitat

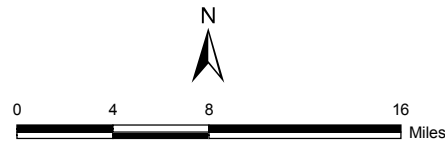


FIGURE 4
ESSENTIAL FISH HABITAT BY SPECIES - GRAY TRIGGERFISH
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Greater Amberjack Offshore Habitat

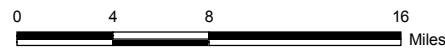
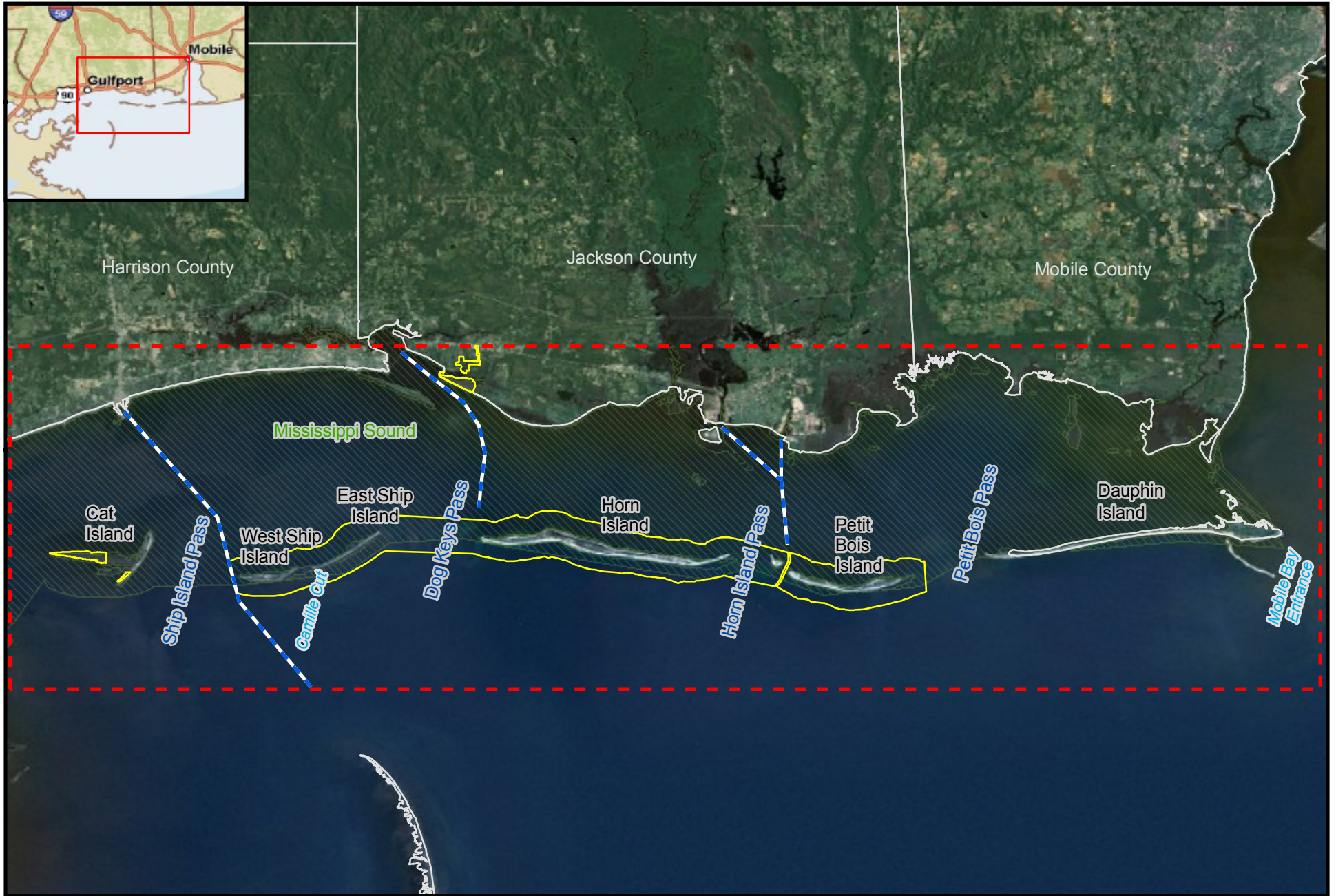


FIGURE 5
ESSENTIAL FISH HABITAT BY SPECIES - GREATER AMBERJACK
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- — Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Gulf Sturgeon Offshore Habitat

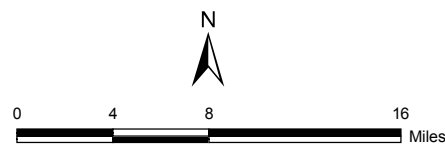


FIGURE 6
ESSENTIAL FISH HABITAT BY SPECIES - GULF STURGEON
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- — Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- King Mackerel Offshore Habitat

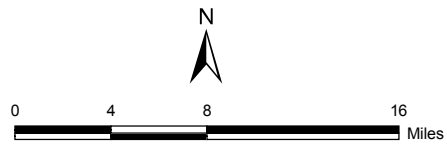
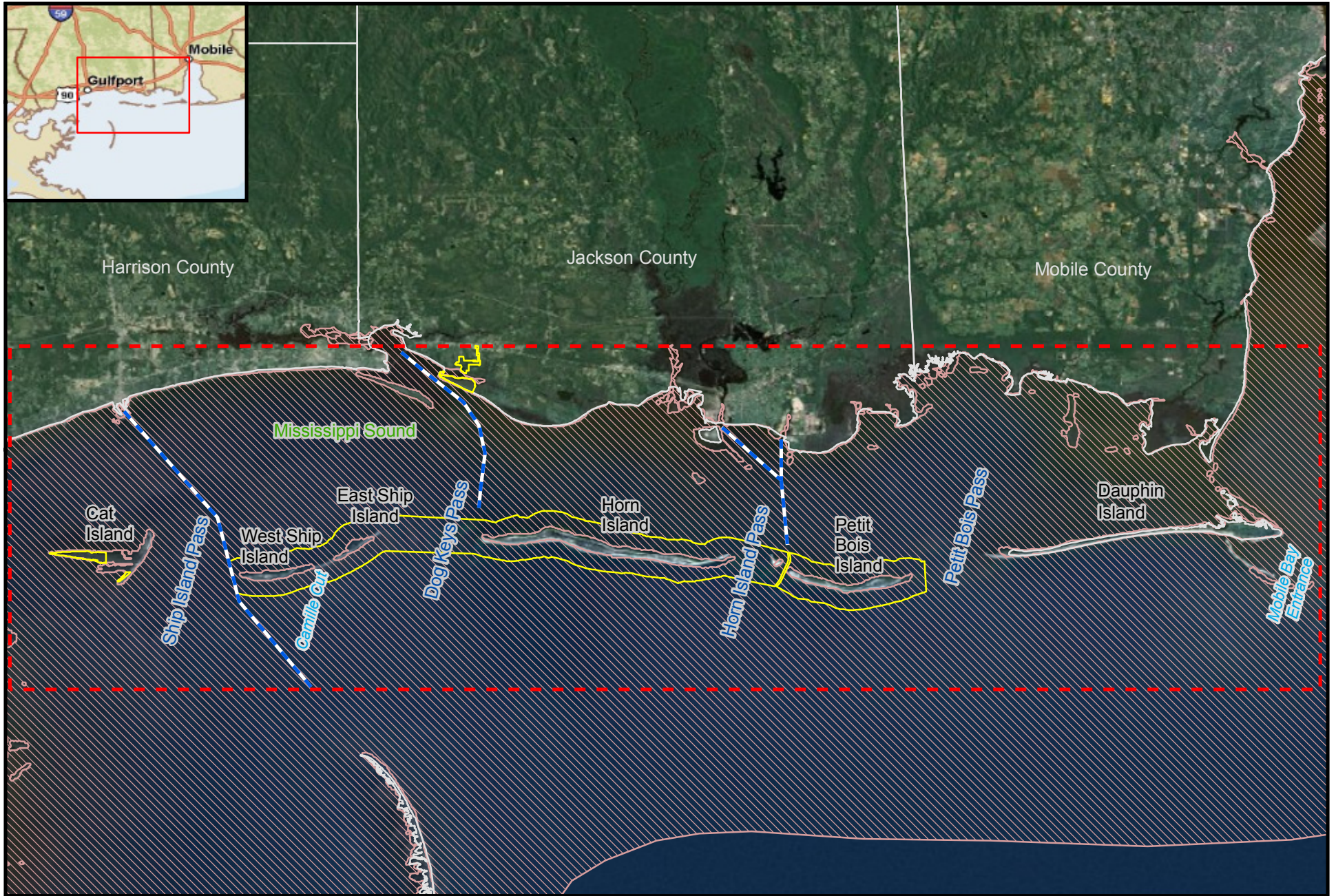
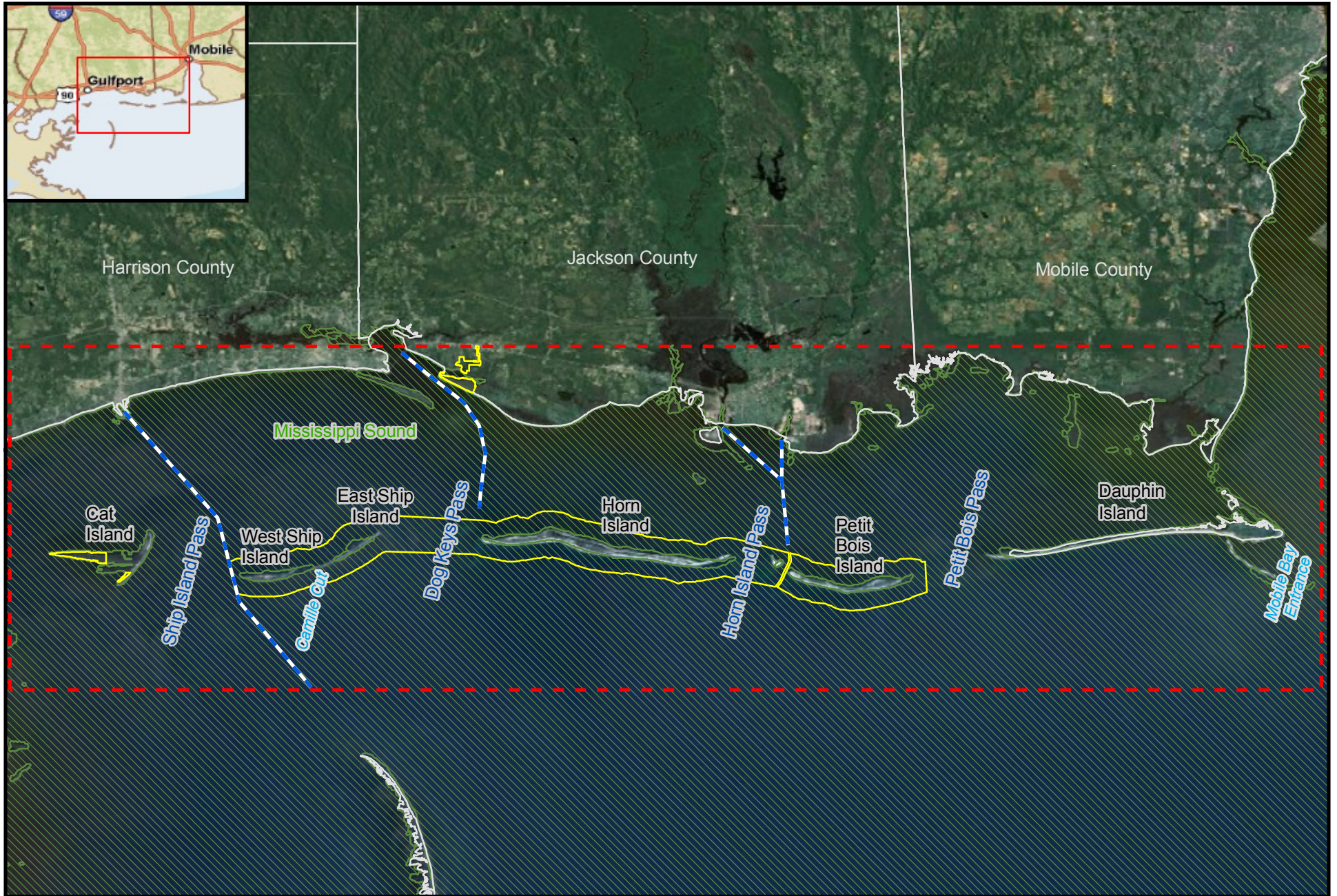


FIGURE 7
ESSENTIAL FISH HABITAT BY SPECIES - KING MACKEREL
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- - - Lane Snapper Offshore Habitat
- Nursery Area

FIGURE 8
ESSENTIAL FISH HABITAT BY SPECIES - LANE SNAPPER
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Lesser Amberjack Offshore Habitat

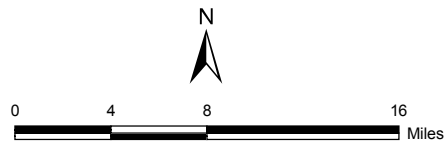
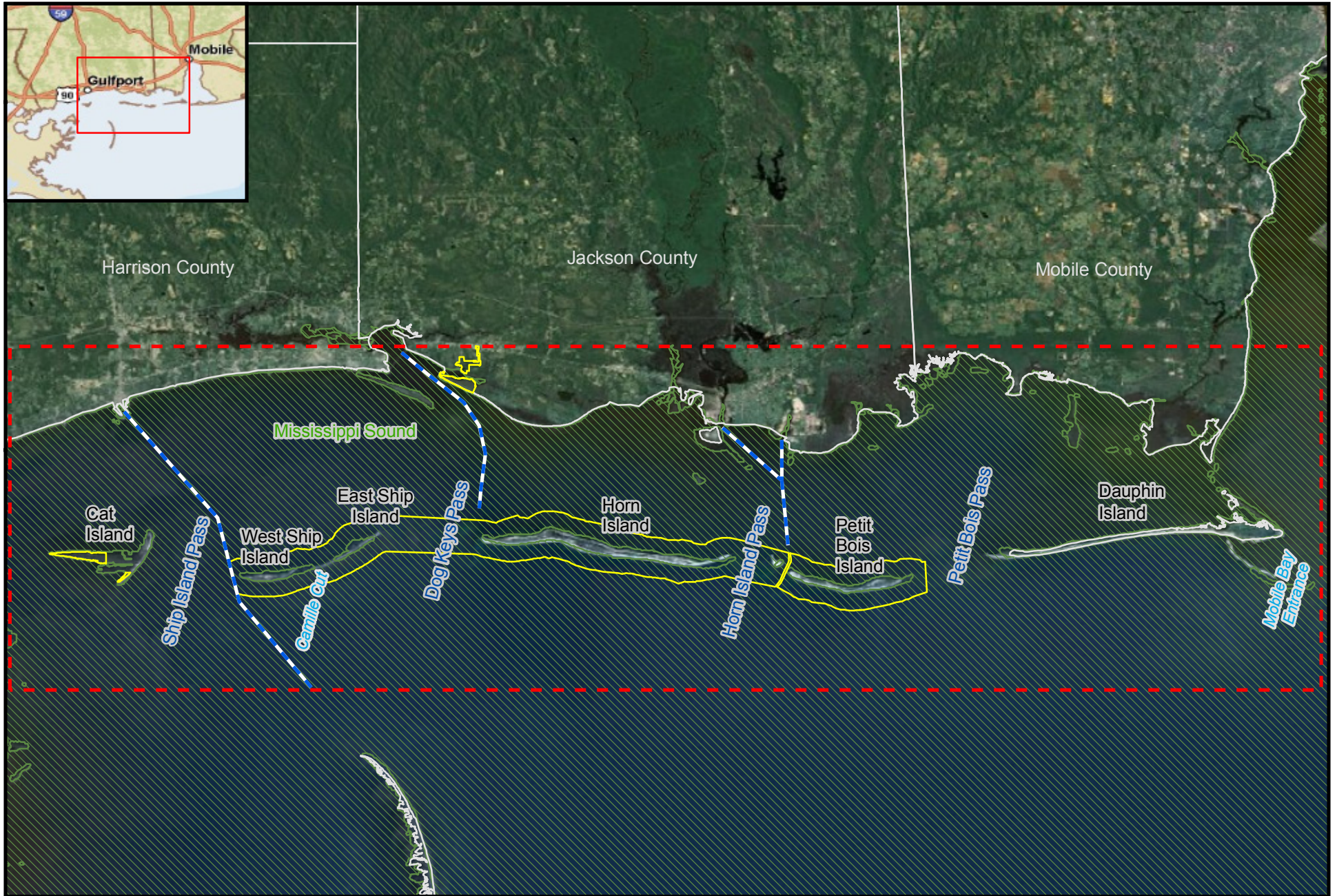


FIGURE 9
ESSENTIAL FISH HABITAT BY SPECIES - LESSER AMBERJACK
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Little Tunny Tuna Offshore Habitat

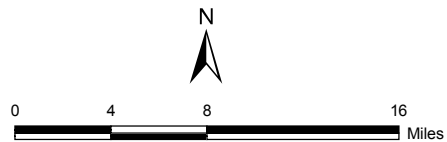
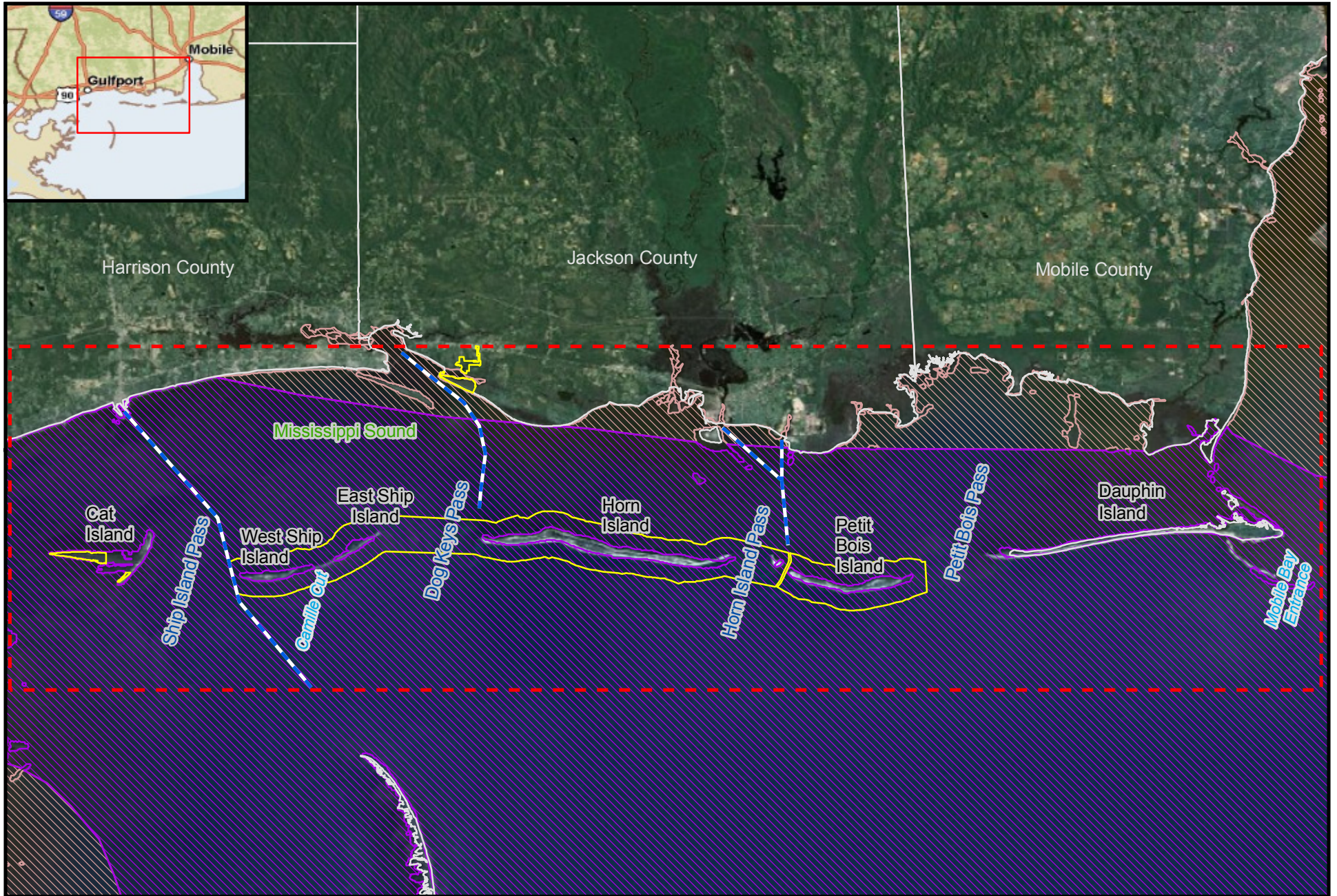


FIGURE 10
ESSENTIAL FISH HABITAT BY SPECIES - LITTLE TUNNY TUNA
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Pink Shrimp Offshore Habitat
- Nursery Area
- Spawning Area

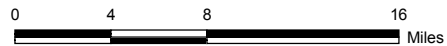
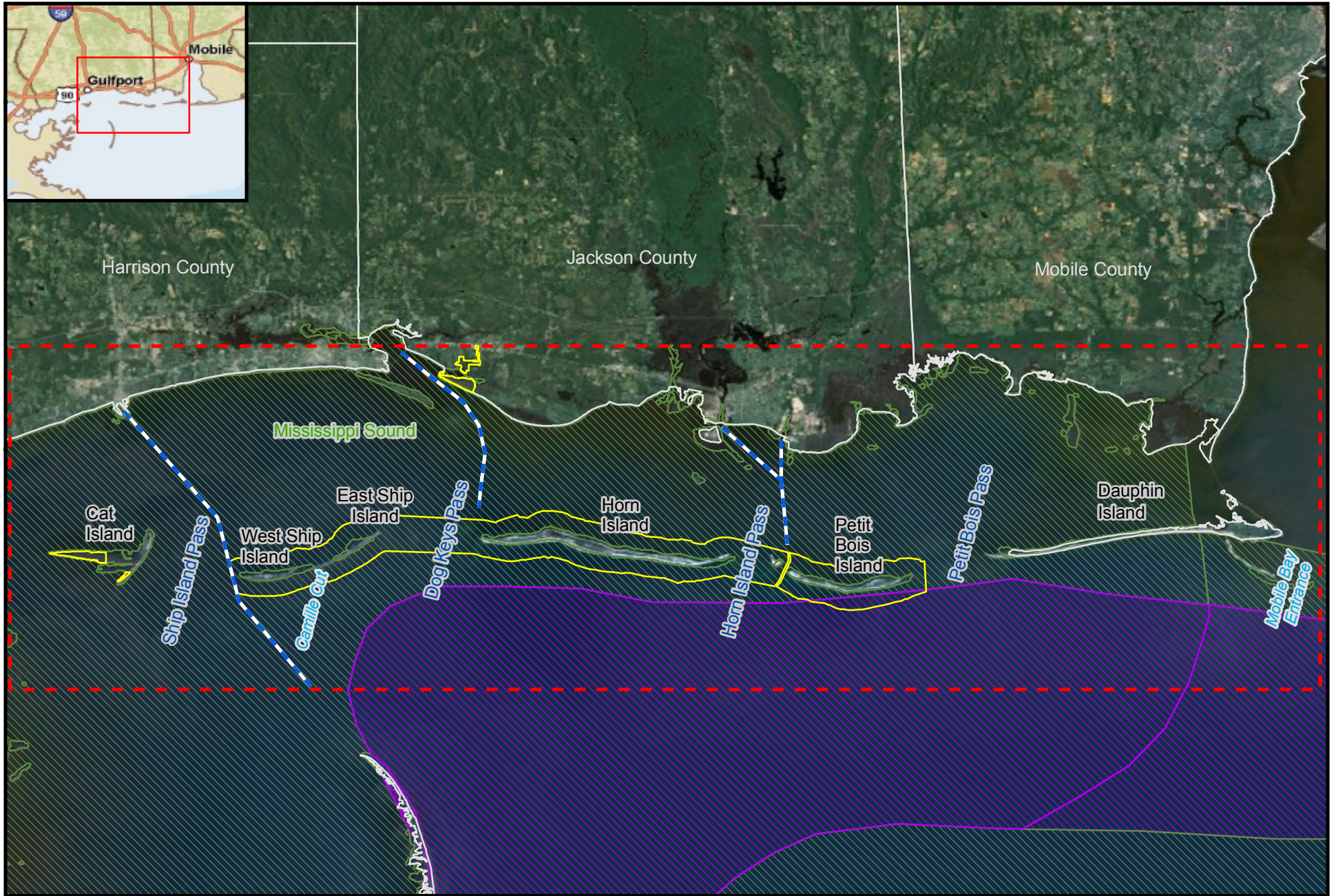


FIGURE 11
ESSENTIAL FISH HABITAT BY SPECIES - PINK SHRIMP
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Spawning Area
- Adult Area
- Red Drum Offshore Habitat

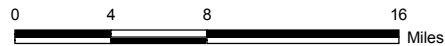
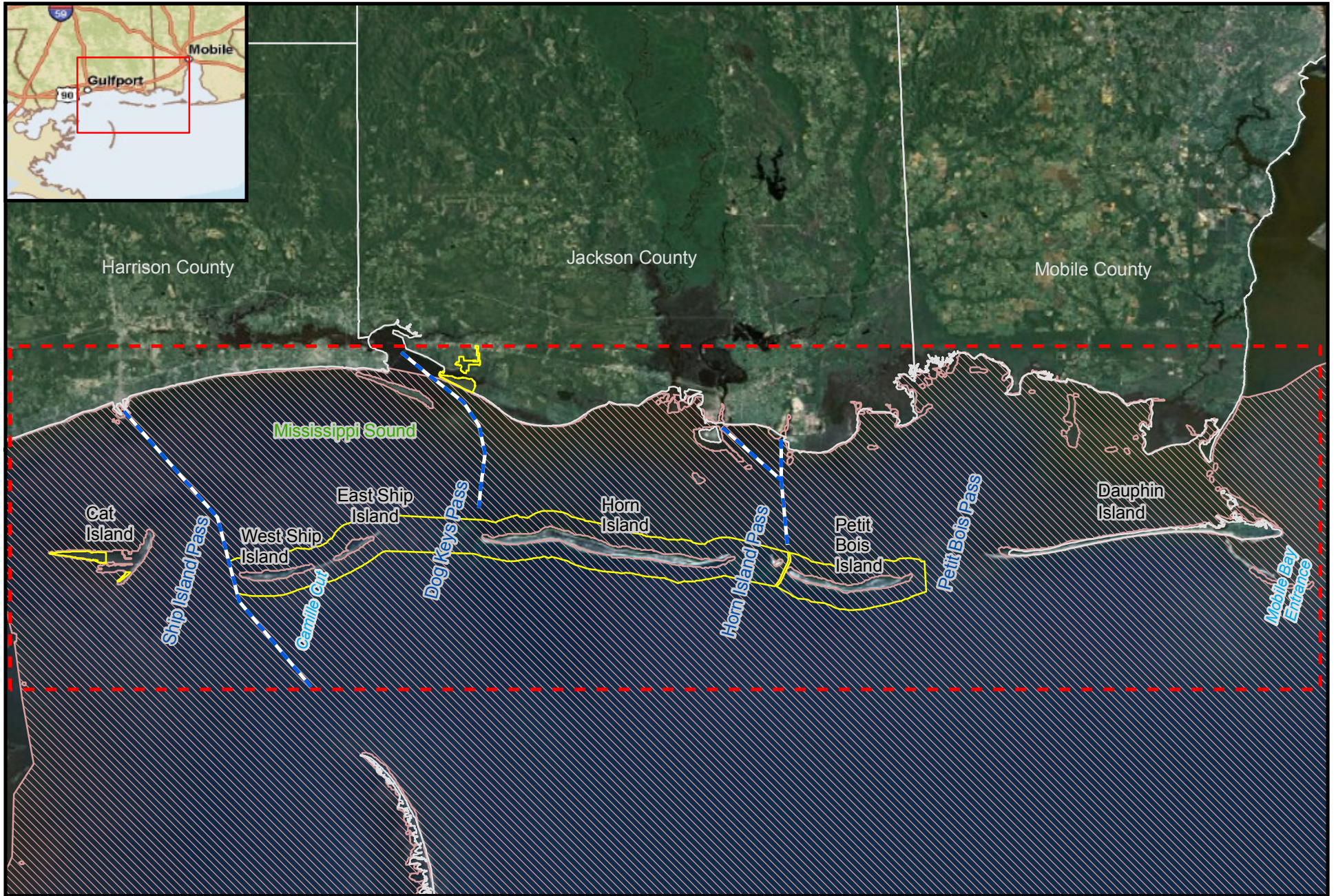


FIGURE 12
ESSENTIAL FISH HABITAT BY SPECIES - RED DRUM
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- Deep Draft Shipping Channel
- Project Area
- Gulf Islands National Seashore
- Red Snapper Offshore Habitat
- Nursery Area

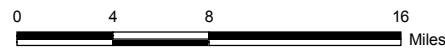
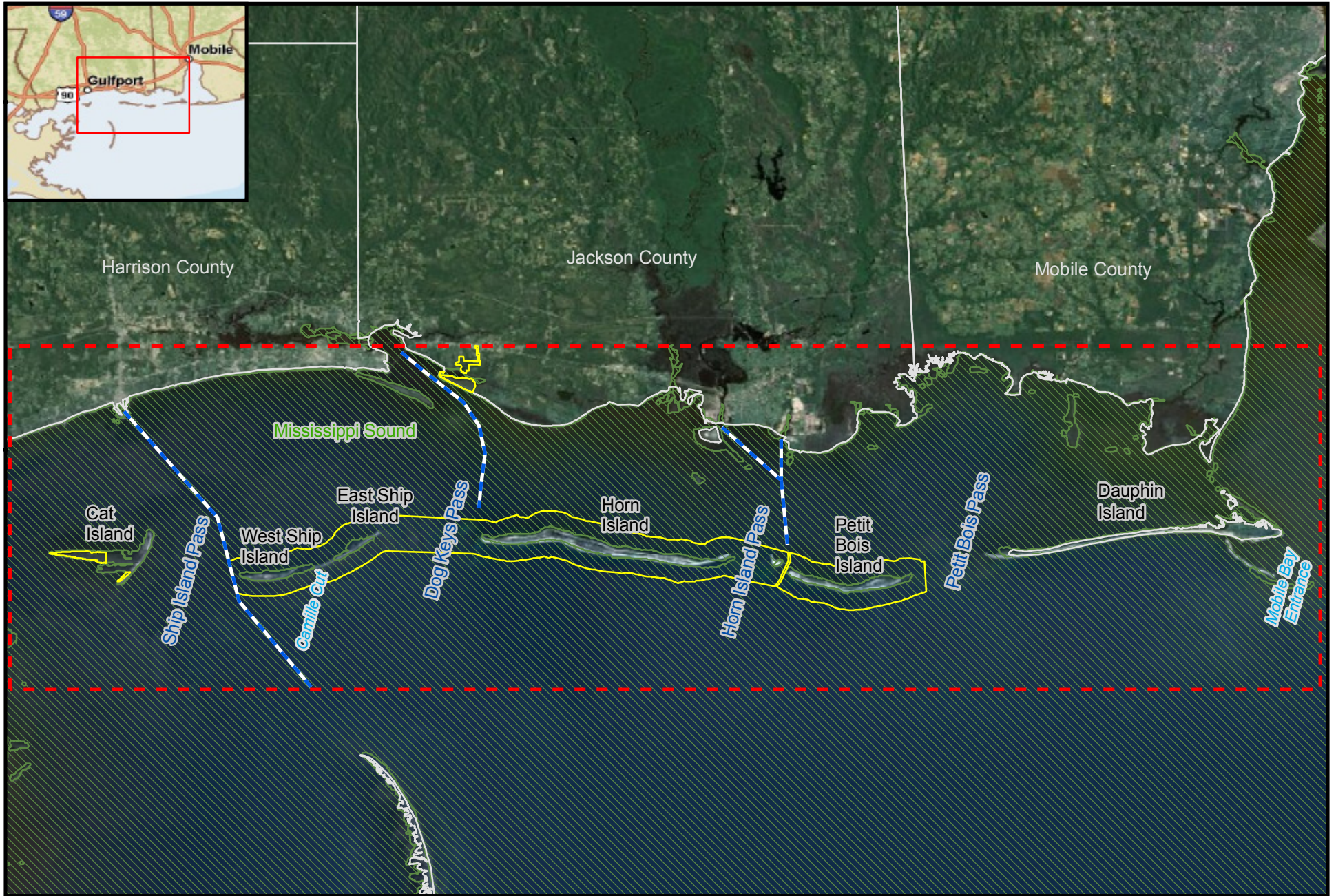


FIGURE 13
ESSENTIAL FISH HABITAT BY SPECIES - RED SNAPPER
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Scamp Offshore Habitat

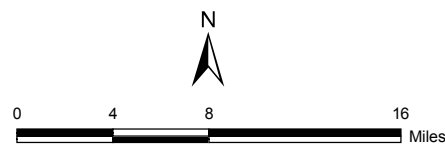
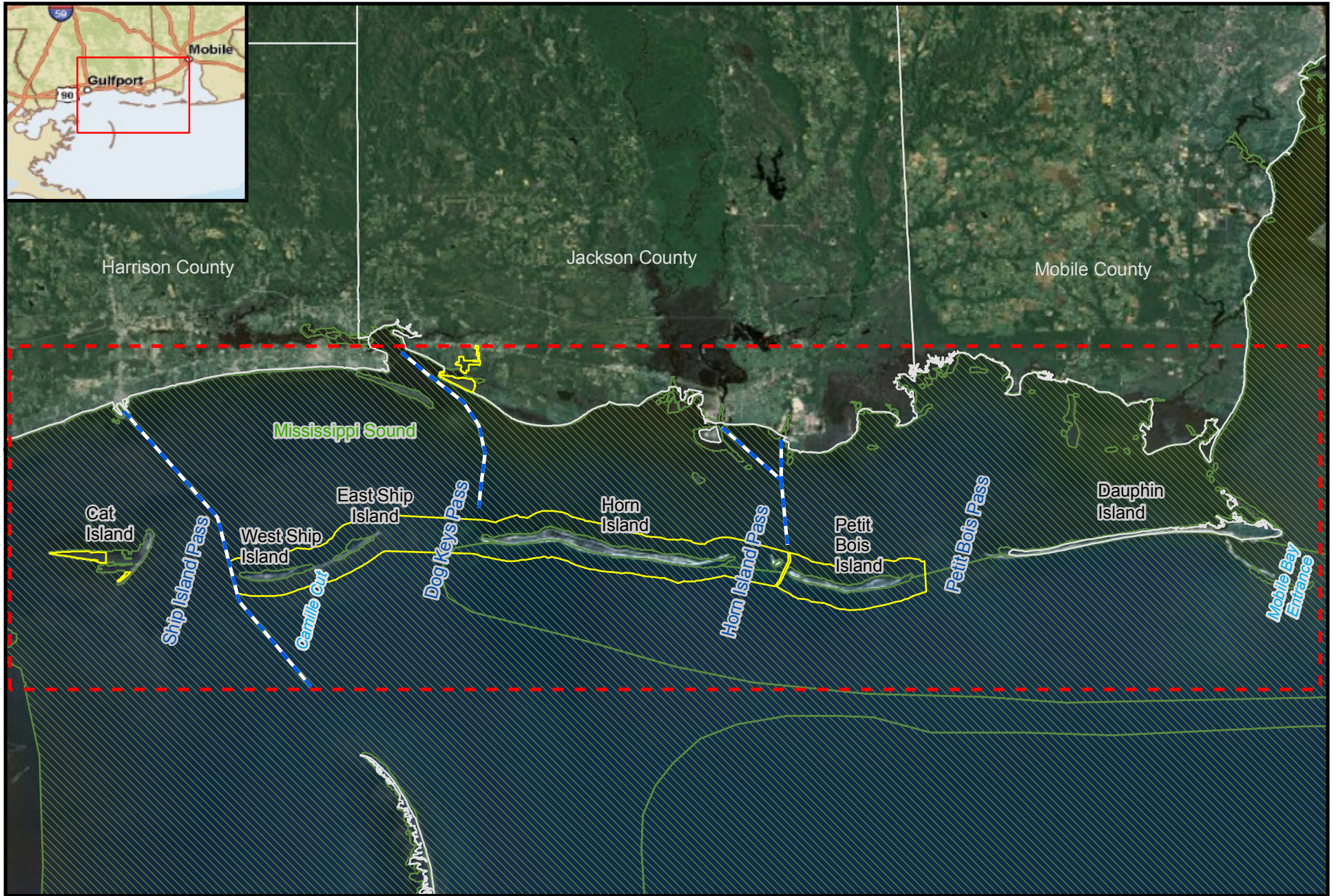


FIGURE 14
ESSENTIAL FISH HABITAT BY SPECIES - SCAMP
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- — — — Deep Draft Shipping Channel
- - - - - Project Area
- Gulf Islands National Seashore
- Spanish Mackerel Offshore Habitat
- Adult Area (Year-round)

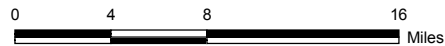
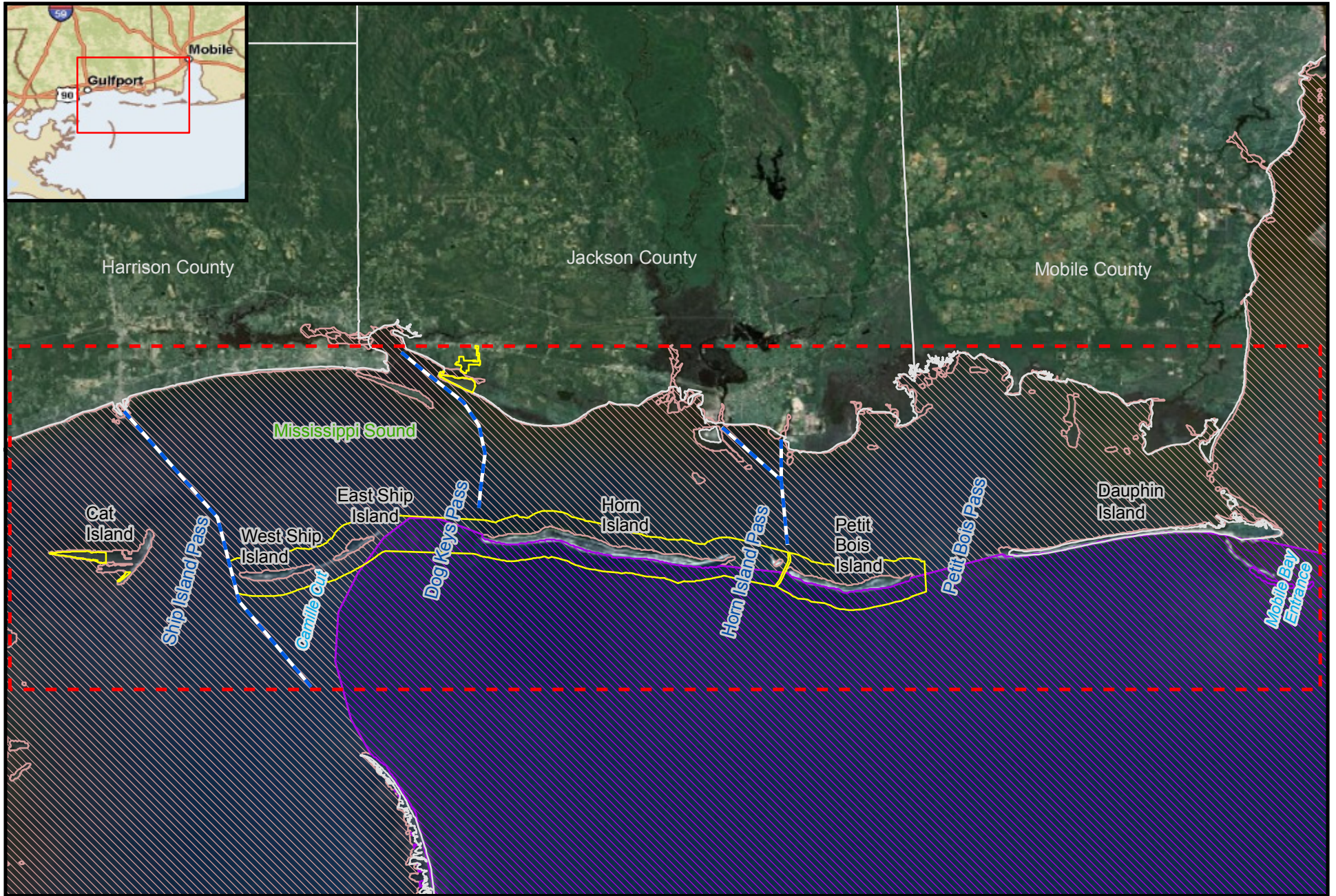


FIGURE 15
ESSENTIAL FISH HABITAT BY SPECIES - SPANISH MACKEREL
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- - - Project Area
- Gulf Islands National Seashore
- Stone Crab Offshore Habitat
- Nursery Area
- Spawning Area

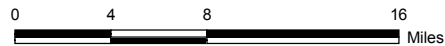
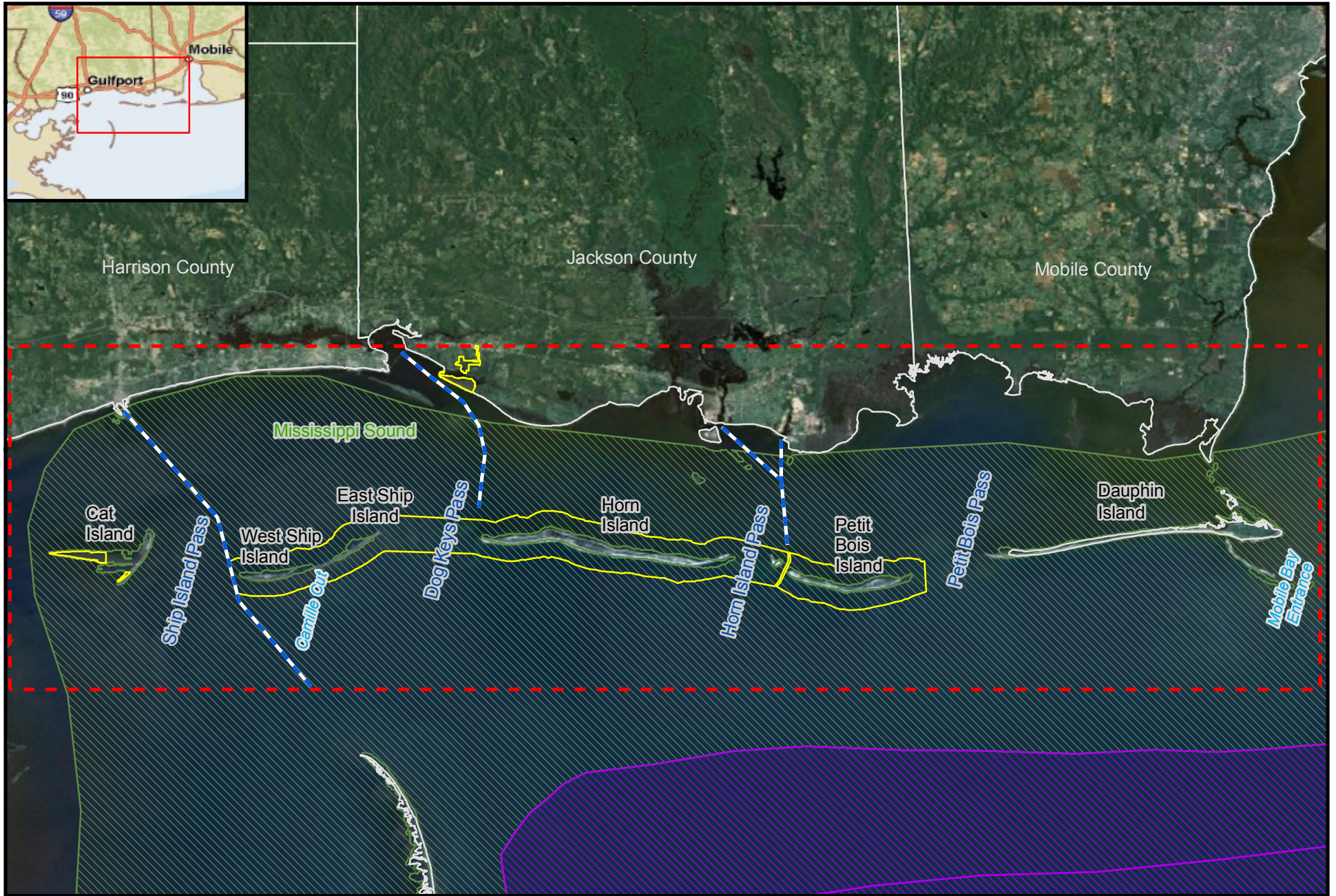


FIGURE 16
ESSENTIAL FISH HABITAT BY SPECIES - STONE CRAB
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS



- - - Deep Draft Shipping Channel
- Project Area
- Gulf Islands National Seashore
- White Shrimp Offshore Habitat**
- Spawning Area
- Adult Area

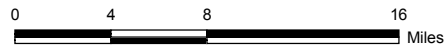


FIGURE 17
ESSENTIAL FISH HABITAT BY SPECIES - WHITE SHRIMP
 MsCIP COMPREHENSIVE BARRIER ISLAND RESTORATION SEIS