

# Biology Map 5

## Gulf of Mexico

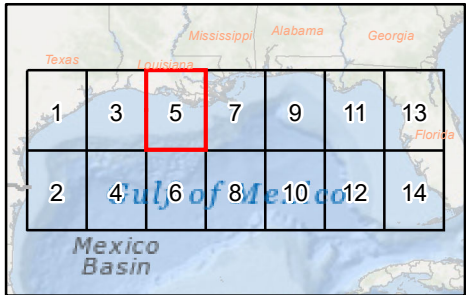
### Offshore ESI



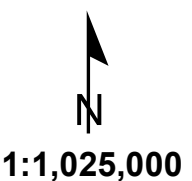
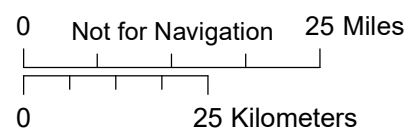
Bureau of Safety and Environmental Enforcement

- Benthic
- Birds
- Fish
- Herpetofauna
- Invertebrates
- Marine Mammals

- Benthic Points
- USCG Captain Of The Port Zones
- Bathymetry (Meters)
- US Exclusive Economic Zone
- AOI



**SEE MAP DATA TABLE**  
for Status, Seasonality, and Breed  
information about mapped species.  
Published: February 2023







Gulf of Mexico Offshore ESI: Biology Map 5 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BENTHIC (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)											
145	Black coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Deep sea sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Soft coral			Solitary	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Stony coral			Solitary	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
157	Black coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Deep sea sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Sea pens			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Black coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
158	Deep sea sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Sea pens			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Stony cup coral			Solitary	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Black coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
159	Deep sea sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Stony cup coral			Solitary	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Deep sea coral			0 To 1 Genera	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
165	Deep sea coral			>1 To 2 Genera	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
166	Deep sea coral			>2 To 4 Genera	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
167	Deep sea coral			>4 To 6 Genera	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
168	Deep sea coral			>6 To 8 Genera	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
170	Shallow coral community			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D
228	Sargassum			-	General Distribution			M	A	M	J	J	A	S			

BIRD:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Nesting	Migrating	Molting
1	Audubon's shearwater			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Band-rumped storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Black tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Bonaparte's gull			-	General Distribution	J	F	M	A	M							D	-	-	-
	Bridled tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown booby			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown noddy			-	General Distribution						J	J	A	S	O	N		-	-	-
	Brown pelican			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Common loon			-	General Distribution	J	F	M	A	M							D	-	-	-
	Common tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Cory's shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Great shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Herring gull			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Laughing gull			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Magnificent frigatebird			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Masked booby			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Northern gannet			-	General Distribution	J	F	M	A	M							D	-	-	-
	Parasitic jaeger			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Pomarine jaeger			-	General Distribution	J	F	M	A	M	J	J	A				D	-	-	-
	Royal tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sandwich tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Seabirds			High-Vessel Srvy Ppo	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sooty tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Wilson's storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Audubon's shearwater			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
2	Band-rumped storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Black tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Bonaparte's gull			-	General Distribution	J	F	M	A	M							D	-	-	-
	Bridled tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown booby			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown noddy			-	General Distribution						J	J	A	S	O	N		-	-	-
	Brown pelican			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Common loon			-	General Distribution	J	F	M	A	M							D	-	-	-
	Common tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Cory's shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Great shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Herring gull			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Laughing gull			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Magnificent frigatebird			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Masked booby			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Northern gannet			-	General Distribution	J	F	M	A	M							D	-	-	-
	Parasitic jaeger			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Pomarine jaeger			-	General Distribution	J	F	M	A	M	J	J	A				D	-	-	-
	Royal tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sandwich tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Seabirds			Low-Vessel Srvy Ppo	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sooty tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Wilson's storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Audubon's shearwater			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Band-rumped storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
3	Black tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Bonaparte's gull			-	General Distribution	J	F	M	A	M							D	-	-	-
	Bridled tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown booby			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Brown noddy			-	General Distribution						J	J	A	S	O	N		-	-	-
	Brown pelican			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Common loon			-	General Distribution	J	F	M	A	M							D	-	-	-
	Common tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Cory's shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Great shearwater			-	General Distribution						J	J	A	S	O	N		-	-	-
	Herring gull			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Laughing gull			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Magnificent frigatebird			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Masked booby			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Northern gannet			-	General Distribution	J	F	M	A	M							D	-	-	-
	Parasitic jaeger			-	General Distribution	J	F	M	A	M				S	O	N	D	-	-	-
	Pomarine jaeger			-	General Distribution	J	F	M	A	M	J	J	A				D	-	-	-
	Royal tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sandwich tern			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Seabirds			Med-Vessel Srvy Ppo	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Sooty tern			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-
	Wilson's storm-petrel			-	General Distribution			M	A	M	J	J	A	S	O	N		-	-	-
	Black-capped petrel			High-Vessel Srvy Ppo	Concentration Area			M	A	M	J	J	A	S	O	N		-	-	-
	Black-capped petrel			Low-Vessel Srvy Ppo	General Distribution			F	M	A	M	J	J	A	S	O	N	-	-	-
	Black-capped petrel			Med-Vessel Srvy Ppo	General Distribution			F	M	A	M	J	J	A	S	O	N	-	-	-
249	Marine birds			High-Aerial Survey	Concentration Area						J	J	A					-	-	-
250	Marine birds			Low-Aerial Survey	General Distribution						J	J	A					-	-	-
251	Marine birds			Medium-Aerial Survey	General Distribution						J	J	A					-	-	-
253	Marine birds			High-Aerial Survey	Concentration Area	J	F											D	-	-

Gulf of Mexico Offshore ESI: Biology Map 5 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD (cont.):																							
RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)								Nesting	Migrating		Molting						
254	Marine birds			Low-Aerial Survey	General Distribution	J	F							D	-	-	-	-					
255	Marine birds			Medium-Aerial Survey	General Distribution	J	F							D	-	-	-	-					
FISH:																							
RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)								Spawning	Eggs	Larvae	Juveniles	Adults					
19	Bluefin tuna			Bluefin Tuna Hapc	Spawning Area				A	M	J					Apr-Jun	-	Apr-Jun	Apr-Jun	-	-		
176	Reef fish			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	-	
179	Cubera snapper			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Sep	-	-	-	Jan-Dec	Jan-Dec
	Reef fish			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	-	-
189	Atlantic sharpnose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Oct	Jan-Dec	Jan-Dec
	Blacknose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Blacktip shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Bluefin tuna			-	General Distribution	J	F	M	A	M	J					D	-	-	-	-	-	Dec-Jun	
	Bull shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Dusky shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Gag			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Dec-May	-	Dec-Apr	Feb-May	-	Jan-Dec
	Gray snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Nov	-	-	Jun-Nov	-	Jan-Dec
	Greater amberjack			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-May	-	-	-	Jan-Dec	Jan-Dec
	King mackerel			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Oct	-	May-Oct	May-Oct	May-Oct	Jan-Dec
	Menhaden			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Oct-Apr	-	-	-	-	Oct-Apr
	Red snapper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Oct	-	Jul-Nov	Jul-Nov	Jan-Dec	Jan-Dec
	Sailfish			-	General Distribution			M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	-	Mar-Oct	
	Sandbar shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	Jan-Dec
	Scalloped hammerhead			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Scamp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Jun	-	Mar-May	Mar-May	Jan-Dec	Jan-Dec
	Silky shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Skipjack tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Spinner shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Vermilion snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	Jun-Nov	Jun-Nov	-	Jan-Dec
	Whale shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Yellowedge grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Nov	-	-	-	-	Jan-Dec
	Yellowfin tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	-
191	Albacore			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Bigeye thresher			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Bigeye tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Blue marlin			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Nov	-	May-Nov	May-Nov	Jan-Dec	Jan-Dec
	Bluefin tuna			-	General Distribution	J	F	M	A	M	J					D	-	-	-	-	-	Dec-Jun	
	Dusky shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Longbill spearfish			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Longfin mako			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Red snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Oct	-	Jul-Nov	Jul-Nov	Jan-Dec	Jan-Dec
	Sailfish			-	General Distribution			M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	Mar-Oct	Mar-Oct	
	Scamp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Jun	-	Mar-May	Mar-May	Jan-Dec	Jan-Dec
	Shortfin mako			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	Jan-Dec	Jan-Dec
	Silky shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Skipjack tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-May	-	-	Jun-Oct	Jan-Dec	Jan-Dec
	Swordfish			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Tiger shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Tilefish spp.			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Sep	-	-	-	Jan-Dec	Jan-Dec
	Vermilion snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	Jun-Nov	Jun-Nov	-	Jan-Dec
	Whale shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	White marlin			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Jun	-	-	-	Jan-Dec	Jan-Dec
	Yellowedge grouper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Nov	-	-	-	-	Jan-Dec
	Yellowfin tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	May-Sep	May-Sep	Jan-Dec	Jan-Dec
192	Atlantic sharpnose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Oct	Jan-Dec	Jan-Dec
	Blacknose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Blacktip shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Oct	Jan-Dec	Jan-Dec
	Bonnethead			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	-
	Bull shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Sep	Jan-Dec	Jan-Dec
	Gray snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Nov	-	-	Jun-Nov	-	Jan-Dec
	Greater amberjack			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-May	-	-	-	Jan-Dec	Jan-Dec
	King mackerel			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Oct	-	May-Oct	May-Oct	May-Oct	Jan-Dec
	Menhaden			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Oct-Apr	-	-	-	Oct-Apr	Oct-Apr
	Red drum			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Aug-Nov	-	Aug-Oct	-	-	Jan-Dec
	Red snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Oct	-	Jul-Nov	Jul-Nov	Jan-Dec	Jan-Dec
	Scalloped hammerhead			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Spanish mackerel			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Sep	-	-	May-Oct	Mar-Nov	Jan-Dec
	Spinner shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jun-Nov	Jan-Dec	Jan-Dec
200	Giant manta		T	High Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
201	Giant manta		T	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
217	Oceanic whitetip shark		T	High Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
218	Oceanic whitetip shark		T	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
224	Reef fish			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	-	-
	Scamp			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Sep	-	-	-	-	-
256	Whale shark			Aggregation Area	Concentration Area						J	J	A				-	-	-	-	Jun-Aug	-	

HERPETOFAUNA:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Nesting	Hatching	Internest	Juveniles	Adults
172	Loggerhead sea turtle		T	Resident Subadults	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
180	Green sea turtle		T	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Kemp's ridley sea turtle		E	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Loggerhead sea turtle		T	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
182	Green sea turtle		T	High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
183	Green sea turtle		T	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
185	Kemp's ridley sea turtle		E	High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
186	Kemp's ridley sea turtle		E	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
195	Leatherback sea turtle		E	High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
196	Leatherback sea turtle		E	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
197	Leatherback sea turtle		E	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
198	Loggerhead sea turtle		T	High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
199	Loggerhead sea turtle		T	Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
243	Green sea turtle		T	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	-
	Kemp's ridley sea turtle		E	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	-
	Leatherback sea turtle		E	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	-
	Loggerhead sea turtle		T	-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	-

INVERTEBRATE:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
7	Royal red shrimp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
190	Blue crab			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Nov	Mar-Nov	Mar-Nov
	Brown shrimp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-May	Sep-Nov	-	Jan-Dec	Mar-Nov	Mar-Nov
	White shrimp			-	General Distribution					M	J	J	A	S	O	N		-	-	-	-	May-Nov	Jul-Nov
193	Blue crab			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Nov	Mar-Nov	Mar-Nov
	Brown shrimp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-May	Sep-Nov	-	Jan-Dec	Mar-Nov	Mar-Nov
	Pink shrimp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	-
	White shrimp			-	General Distribution					M	J	J	A	S	O	N		-	-	-	-	May-Nov	Jul-Nov

Species Threatened/Endangered

Gulf of Mexico Offshore ESI: Biology Map 5 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
236	Caribbean spiny lobster			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Queen conch			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	Jan-Dec

MARINE MAMMAL:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Mating	Calving	Pupping	Molting
11	Atlantic spotted dolphin			Present	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
	Bottlenose dolphin			Present	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
12	Beaked whales			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
13	Beaked whales			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
14	Blackfish			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
15	Blackfish			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
162	Clymene dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
163	Clymene dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
188	Kogia spp.			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
213	Atlantic spotted dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
214	Atlantic spotted dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
215	Bottlenose dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
216	Bottlenose dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
220	Pantropical spotted dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
221	Pilot whales			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
222	Pilot whales			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
225	Rice's Whale	E		Present	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
226	Risso's dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
237	Sperm whale	E		High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
238	Sperm whale	E		Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
239	Spinner dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
240	Spinner dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
245	Striped dolphin			Low Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-