

Biology Map 12

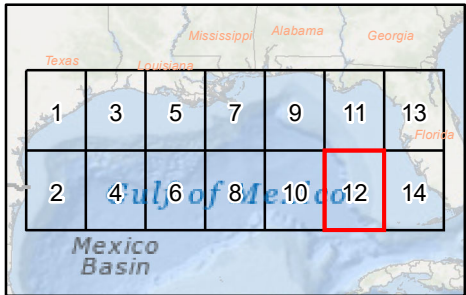
Gulf of Mexico Offshore ESI



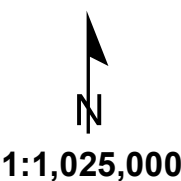
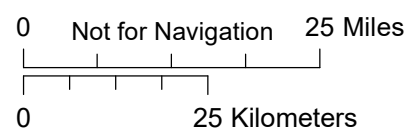
Bureau of Safety and Environmental Enforcement

- 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



BIOLOGICAL RESOURCES: (cont.)[illegible]

Gulf of Mexico Offshore ESI: Biology Map 12 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BENTHIC (cont.):																	
RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)											
146	Stony 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
	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 branching coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
147	Stony 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
	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
148	Stony branching coral			Structure-Forming	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
	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
149	Stony coral			Solitary	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
	Lace coral			Structure-Forming	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
152	Black coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Lace coral			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 branching 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
153	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Lace coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Stony branching coral			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 sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
154	Gorgonian corals			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Stony branching coral			Structure-Forming	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
	Deep sea sponge			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
	Lace coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
155	Stony branching coral			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 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
	Lace coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
156	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
	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
	Lace coral			Structure-Forming	Vulnerable Occurrence	J	F	M	A	M	J	J	A	S	O	N	D
157	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
	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
160	Lace coral			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
164	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
228	Sargassum			-	General Distribution			M	A	M	J	J	A	S			
229	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		-	-	-	-	-
2	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			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		-	-	-	-	-
3	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		-	-	-	-	

Gulf of Mexico Offshore ESI: Biology Map 12 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Nesting	Migrating			Molting
	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		-	-	-	-	
16	Black-capped petrel			High-Vessel Srvy Ppo	Concentration Area			F	M	A	M	J	J	A	S	O	N		-	-	-	-
17	Black-capped petrel			Low-Vessel Srvy Ppo	General Distribution			F	M	A	M	J	J	A	S	O	N		-	-	-	-
18	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				-	-	-	-	
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	-	-	
174	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
	Bluefin tuna			-	General Distribution	J	F	M	A	M	J						D	-	-	-	-	Dec-Jun
	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	-	-	-	-	-
	Night shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N		-	-	-	-	-
	Sailfish			-	General Distribution				M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	-
	Shortfin mako			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	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
	Swordfish			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	Jan-Dec	Jan-Dec	Jan-Dec
	White marlin			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Jun	-	-	-	Jan-Dec
	Yellowfin tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	May-Sep	May-Sep	-
184	Gulf sturgeon	T		-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	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	-	-	-	-	-
202	Atlantic sharpnose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Blackfin snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	Mar-May	Jan-Dec
	Blacknose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Blacktip shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Blue marlin			-	General Distribution					M	J	J	A	S	O	N		May-Nov	-	May-Nov	May-Nov	-
	Gag			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Dec-May	-	Dec-Apr	Feb-May	-
	Greater amberjack			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-May	-	-	-	Jan-Dec
	Red grouper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	Jan-Dec	May-Jul	-
	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
	Sailfish			-	General Distribution				M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	-
	Sandbar shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Scamp			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Jun	-	Mar-May	Mar-May	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
	Snowy grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Oct	-	-	-	-
	Tiger shark			-	General Distribution								J	A				-	-	Jul-Aug	-	
	Tilefish spp.			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Sep	-	-	-	Jan-Dec
	Vermilion snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	Jun-Nov	Jun-Nov	-
	Yellowedge grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Nov	-	-	-	-
204	Blue marlin			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Nov	-	May-Nov	May-Nov	Jan-Dec
	Bluefin tuna			-	General Distribution	J	F	M	A	M	J						D	-	-	-	-	Dec-Jun
	Longbill spearfish			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-
	Red grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	Jan-Dec	May-Jul	-
	Sailfish			-	General Distribution				M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	Mar-Oct
	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
	Swordfish			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	Jan-Dec	Jan-Dec	Jan-Dec
	Tilefish spp.			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Sep	-	-	-	Jan-Dec
	Yellowedge grouper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Nov	-	-	-	-
	Yellowfin tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	May-Sep	May-Sep	-
218	Oceanic whitetip shark	T		-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
223	Reef fish			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	-
230	Atlantic sharpnose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Black grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Dec-Apr	-	-	-	Jan-Dec
	Blackfin snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	Mar-May
	Blacknose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Blacktip shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Blue marlin			-	General Distribution					M	J	J	A	S	O	N		May-Nov	-	May-Nov	May-Nov	-
	Cobia			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Sep	-	-	May-Jul	Apr-Oct
	Cubera snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Sep	-	-	-	Jan-Dec
	Gag			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Dec-May	-	Dec-Apr	Feb-May	-
	Gray snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Aug	-	-	Jun-Aug	-
	Greater amberjack			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-May	-	-	-	Jan-Dec
	Night shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N		-	-	-	-	-
	Queen snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-
	Red grouper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	Jan-Dec	May-Jul	-
	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
	Sailfish			-	General Distribution				M	A	M	J	J	A	S	O		May-Sep	-	May-Sep	Mar-Oct	-
	Sandbar shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec
	Scamp			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Jun	-	Mar-May	Mar-May	Jan-Dec
	Silk snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	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
	Snowy grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Oct	-	-	-	-
	Speckled hind			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Sep	-	-	-	-
	Tiger shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jul-Aug	Jan-Dec
	Tilefish spp.			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Sep	-	-	-	Jan-Dec

Species Threatened/Endangered

Gulf of Mexico Offshore ESI: Biology Map 12 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):																							
RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
231	Vermilion snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Sep	-	Jun-Nov	Jun-Nov	-	Jan-Dec
	White marlin			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Jun	-	-	-	Jan-Dec	Jan-Dec
	Yellowedge grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-Nov	-	-	-	-	Jan-Dec
	Bigeye tuna			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	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
	Cubera snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Sep	-	-	-	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	-	-	-	-	-	-
	Night shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N		-	-	-	-	-	-
	Queen snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	-
	Sailfish			-	General Distribution			M	A	M	J	J	A	S	O			May-Sep	-	May-Sep	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
	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.			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Sep	-	-	-	Jan-Dec	Jan-Dec
	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					M	J	J	A	S			May-Sep	-	May-Sep	May-Sep	-	-	
234	Atlantic sharpnose shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
	Blackfin snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	Mar-May	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
	Cobia			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Sep	-	-	May-Jul	Apr-Oct	Jan-Dec
	Cubera snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Sep	-	-	-	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
	Goliath grouper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Oct	-	-	-	-	Jan-Dec
	Gray snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jun-Aug	-	-	Jun-Aug	-	Jan-Dec
	Greater amberjack			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Feb-May	-	-	-	Jan-Dec	Jan-Dec
	Lemon shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	Jan-Dec
	Mutton snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	May-Aug	-	-	-	Jan-Dec	Jan-Dec
	Red grouper			Common	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	Jan-Dec	May-Jul	-	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
	Sandbar shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	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
	Silk snapper			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	-
	Tiger shark			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jul-Aug	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	-	-	-	-	-	-
241	Smalltooth sawfish	E		High Use Area	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec
242	Smalltooth sawfish	E		-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Jan-Dec	Jan-Dec

HERPETOFAUNA:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Nesting	Hatching	Internest	Juveniles	Adults
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
183	Green sea turtle		T	Low Use Area	General Distribution	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
203	Blue crab			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Nov	Mar-Nov	Mar-Nov
235	Blue crab			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Mar-Nov	Mar-Nov	Mar-Nov
	Caribbean spiny lobster			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	Jan-Dec	Jan-Dec	Jan-Dec
	Pink shrimp			-	General Distribution	J	F	M	A	M	J	J	A	S	O	N	D	Jan-Dec	-	-	-	Jan-Dec	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	-	-	-	-
187	Kogia spp.			High Use Area	Concentration Area	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	-	-	-	-
219	Pantropical spotted dolphin			High Use Area	Concentration Area	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	-	-	-	-
227	Risso's dolphin			Low Use Area	General Distribution	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	-	-	-	-
244	Striped dolphin			High Use Area	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-