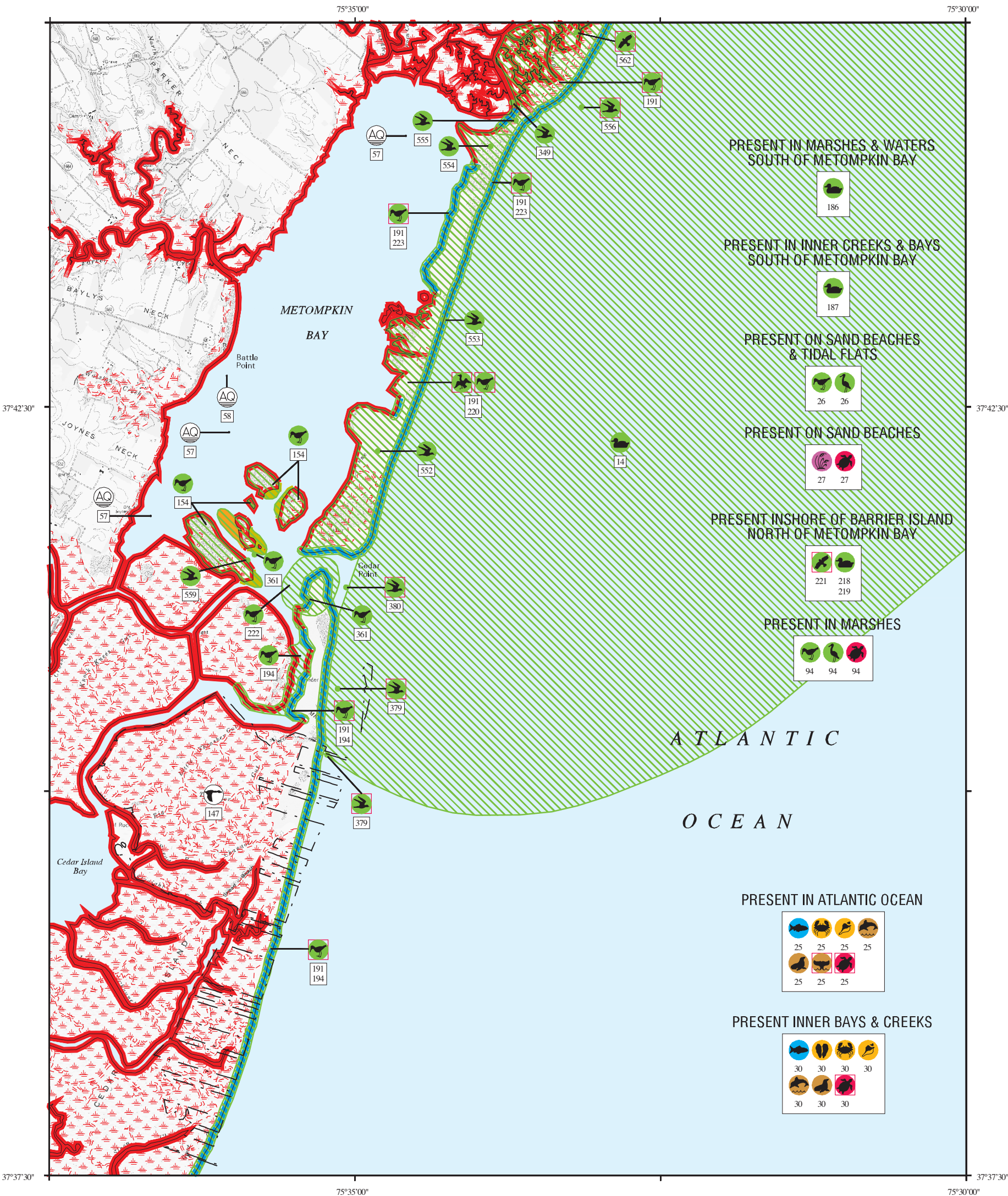


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN CLAY
- 2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE-TO MEDIUM-GRAINED SAND BEACHES
- 3B SCARPS AND STEEP SLOPES IN SAND
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED SCARPS IN CLAY
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT-AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMP
- 10D SCRUB-SHRUB WETLANDS

Not For Navigation
Published: April 2005

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

PRESENT IN MARSHES & WATERS SOUTH OF METOMPKIN BAY

186

PRESENT IN INNER CREEKS & BAYS SOUTH OF METOMPKIN BAY

187

PRESENT ON SAND BEACHES & TIDAL FLATS

26 26

PRESENT ON SAND BEACHES

27 27

PRESENT INSHORE OF BARRIER ISLAND NORTH OF METOMPKIN BAY

221 218 219

PRESENT IN MARSHES

94 94 94

PRESENT IN ATLANTIC OCEAN

25 25 25 25

25 25 25

PRESENT INNER BAYS & CREEKS

30 30 30 30

30 30 30

125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 99 98 97 96 95 94 93 92 91 90 102 101 100 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

VOLUME 1 VOLUME 2 VOLUME 1 VOLUME 2

METOMPKIN INLET, VA. **VA-67**

Virginia: ESIMAP 67

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
14	Black scoter	HIGH	X	X	X	X							X	X	-	-	-
	Surf scoter		X	X	X	X							X	X	-	-	-
	White-winged scoter		X	X	X	X							X	X	-	-	-
26	American woodcock		X	X								X	X	X	-	-	-
	Black-bellied plover			X	X	X	X	X	X	X	X	X	X		-	-	-
	Dunlin		X	X	X	X	X			X	X	X	X		-	-	-
	Greater yellowlegs			X	X	X	X	X	X	X	X	X	X		-	-	-
	Killdeer						X	X	X						-	-	-
	Least sandpiper			X	X	X	X	X	X	X	X	X	X		-	-	-
	Lesser yellowlegs			X	X	X	X	X	X	X	X	X	X		-	-	-
	Pectoral sandpiper						X	X	X	X	X	X			-	-	-
	Red knot			X	X	X	X	X							-	-	-
	Ruddy turnstone			X	X	X	X	X							-	-	-
	Sanderling		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Semipalmated plover			X	X	X	X	X	X	X	X	X	X		-	-	-
	Semipalmated sandpiper			X	X	X	X	X	X	X	X	X	X		-	-	-
	Short-billed dowitcher		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Stilt sandpiper						X	X	X	X	X	X			-	-	-
	Western sandpiper						X	X	X	X	X	X			-	-	-
	Whimbrel			X	X	X	X	X							-	-	-
	White-rumped sandpiper			X	X	X									-	-	-
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
94	Clapper rail	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	King rail		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sora			X	X	X				X	X	X			-	-	-
	Virginia rail		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Whimbrel	HIGH		X	X	X				X	X	X			-	-	-
	Willet	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
154	American oystercatcher	HIGH		X	X	X	X	X	X	X					MAR-JUL	-	-
186	American black duck	HIGH	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	-	-
	American wigeon		X	X	X	X					X	X	X		-	-	-
	Brant	HIGH	X	X	X	X					X	X	X		-	-	-
	Canada goose	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Gadwall		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Green-winged teal		X	X	X	X					X	X	X		-	-	-
	Mallard	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Northern pintail		X	X	X	X					X	X	X		-	-	-
	Snow goose	HIGH	X	X	X	X					X	X	X		-	-	-
187	Bufflehead	MODERATE	X	X	X	X					X	X	X		-	-	-
	Ring-necked duck		X	X	X	X					X	X	X		-	-	-
	Scaup		X	X	X	X					X	X	X		-	-	-
	Scoters		X	X	X	X					X	X	X		-	-	-
191	Piping plover	T T HIGH		X	X	X	X	X	X	X					APR-SEP	-	-
	Wilson's plover	E HIGH		X	X	X	X	X	X	X					APR-SEP	-	-
194	American oystercatcher	121 ADULTS		X	X	X	X	X	X	X					MAR-JUL	-	-
218	American black duck	HIGH	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	-	-
	American wigeon		X	X	X	X					X	X	X		-	-	-
	Brant	HIGH	X	X	X	X					X	X	X		-	-	-
	Canada goose	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Gadwall		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Green-winged teal		X	X	X	X					X	X	X		-	-	-
	Mallard		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Northern pintail		X	X	X	X					X	X	X		-	-	-
	Snow goose		X	X	X	X					X	X	X		-	-	-
219	Bufflehead		X	X	X	X					X	X	X		-	-	-
	Mergansers		X	X	X	X					X	X	X		-	-	-
220	Brown pelican	C HIGH		X	X	X	X	X	X	X	X	X	X		-	-	-
221	Bald eagle	T T	X	X	X	X				X	X	X	X		-	-	-
222	Shorebirds	VERY HIGH		X	X	X					X	X	X		-	-	-
223	American oystercatcher	171 ADULTS		X	X	X	X	X	X	X					MAR-JUL	-	-
349	Forster's tern	9 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
361	American oystercatcher	HIGH	X	X	X					X	X	X	X		-	-	-
379	Least tern	C 23 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
380	Black skimmer	206 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
	Common tern	307 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
	Gull-billed tern	T 19 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
	Herring gull	4 ADULTS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Least tern	C 74 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
552	Forster's tern	24 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
553	Herring gull	31 ADULTS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
554	Forster's tern	12 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
555	Forster's tern	4 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
556	Black skimmer	34 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
	Common tern	21 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Gull-billed tern	T 6 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Least tern	C 12 ADULTS		X	X	X	X	X	X						MAY-JUL	-	-
559	Forster's tern	37 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
562	Peregrine falcon	T		X	X	X	X	X							MAR-AUG	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
25	Atlantic croaker					X	X	X	X	X	X	X	X	X	-	-	-	AUG-DEC	MAY-NOV
	Atlantic mackerel			X	X										-	-	-	-	MAR-APR
	Atlantic menhaden		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	MAY-OCT
	Black drum			X	X	X	X	X	X						-	-	-	-	APR-OCT
	Black sea bass			X	X	X	X	X	X						JUN-OCT	-	-	APR-OCT	APR-OCT
	Bluefish			X	X	X	X	X	X	X					-	-	-	MAY-NOV	APR-NOV
	Butterfish			X	X	X	X	X	X	X	X				-	-	-	JUL-NOV	MAR-NOV
	Crevalle jack		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Northern kingfish			X	X	X	X	X	X						MAY-AUG	-	-	-	APR-OCT
	Northern searobin			X	X	X	X	X	X	X					-	-	-	-	MAR-OCT
	Pollock		X	X	X	X							X		-	-	-	-	DEC-APR
	Red drum					X	X	X	X	X	X	X			JUL-NOV	-	-	-	MAY-NOV
	Red hake			X	X	X	X				X	X	X		-	-	-	FEB-MAY	FEB-MAY
																-	-	-	SEP-NOV
	Sandbar shark					X	X	X	X	X	X				-	-	-	MAY-OCT	MAY-OCT
	Scup (porgy)			X	X	X	X	X	X	X					-	-	-	JUN-OCT	MAR-OCT
	Silver hake		X	X	X	X	X				X	X	X		-	-	-	-	OCT-MAY
	Southern kingfish (whiting)			X	X	X	X	X	X						-	-	-	-	APR-OCT
	Spanish mackerel			X	X										-	-	-	-	APR-MAY
	Spiny dogfish		X	X	X	X						X	X		-	-	-	-	NOV-APR
	Spot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-APR	MAR-NOV	MAR-NOV
	Spotted hake			X	X	X	X				X	X	X		-	-	-	MAR-JUN	MAR-JUN
																-	-	-	SEP-NOV
	Spotted seatrout					X	X	X	X	X	X	X	X		MAY-JUL	-	-	APR-NOV	APR-NOV
	Summer flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAY	-	APR-OCT
	Tautog		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-	JAN-DEC
	Weakfish			X	X	X	X	X	X	X					APR-AUG	-	-	MAY-AUG	APR-NOV

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Virginia: ESIMAP 67 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
			-	-	-	-	-	-	-	-	-	-	-	-					
30	Spanish mackerel					X	X								-	-	-	-	APR-MAY
	Spot				X	X	X	X	X	X	X				-	-	-	APR-OCT	JUL-SEP
	Spotted hake		X	X	X	X						X	X	X	-	-	-	OCT-APR	-
	Spotted seatrout				X	X	X	X	X	X	X	X			MAY-JUL	-	-	APR-NOV	APR-NOV
	Striped anchovy				X	X	X	X	X	X	X				APR-SEP	-	-	APR-NOV	APR-NOV
	Summer flounder				X	X	X	X	X	X	X				-	-	-	APR-NOV	APR-NOV
	Tautog		X	X	X	X						X	X	X	-	-	-	-	OCT-APR
	Weakfish				X	X	X	X	X	X	X	X			APR-AUG	-	-	MAR-OCT	APR-OCT
	White hake				X	X	X				X	X	X		-	-	-	-	MAR-MAY
																			SEP-NOV
	White perch		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	APR-JUN	APR-JUN	JAN-DEC	JAN-DEC
	Winter flounder		X	X	X	X	X	X					X		-	-	-	DEC-JUL	DEC-MAY
	Alewife		X	X	X	X	X								-	-	-	-	FEB-JUN
	American eel		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	American shad		X	X	X	X	X								-	-	-	-	FEB-JUN
	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-DEC	-
	Atlantic herring		X	X	X	X	X								-	-	-	-	FEB-JUN
	Atlantic mackerel				X	X									-	-	-	-	MAR-APR
	Atlantic menhaden				X	X	X	X	X	X	X	X			-	-	-	MAY-NOV	MAY-OCT
	Bay anchovy		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Black drum				X	X	X	X	X	X	X				-	-	-	-	APR-OCT
	Black sea bass				X	X	X	X	X	X					-	-	-	APR-SEP	APR-SEP
	Blueback herring		X	X	X	X	X	X	X	X					-	-	FEB-JUN	FEB-OCT	FEB-JUN
	Bluefish				X	X	X	X	X	X					-	-	-	MAY-OCT	MAY-OCT
	Crevalle jack		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Gobies		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-OCT	JAN-DEC	JAN-DEC
	Hickory shad		X	X	X	X	X								-	-	-	-	FEB-JUN
	Hogchoker		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Killifish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	JAN-DEC	JAN-DEC
	Minnnows		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Mummichog		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Northern pipefish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Northern searobin					X	X	X							-	-	-	JUN-AUG	JUN-AUG
	Pollock		X	X	X	X							X		-	-	-	-	DEC-APR
	Red drum					X	X	X	X	X	X	X			JUL-NOV	-	-	AUG-SEP	MAY-NOV
	Red hake		X	X	X	X				X	X	X			-	-	-	FEB-MAY	FEB-MAY
																			SEP-NOV
	Sandbar shark					X	X	X	X	X	X				-	-	-	MAY-OCT	MAY-OCT
	Scup (porgy)				X	X	X	X	X	X	X				-	-	-	JUN-OCT	MAR-OCT
	Silver hake		X	X	X	X	X			X	X	X			-	-	-	-	OCT-MAY
	Silver perch		X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	APR-JUN	JAN-DEC	JAN-DEC
	Silversides		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	APR-SEP	JAN-DEC	JAN-DEC

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
			-	-	-	-	-	-	-	-	-	-	-	-
27	Maritime dune scrub		X	X	X	X	X	X	X	X	X	X	X	X
	Native coastal strand vegetation		X	X	X	X	X	X	X	X	X	X	X	X
	Sea-beach knotweed		X	X	X	X	X	X	X	X	X	X	X	X
	Southern beach spurge		X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
			-	-	-	-	-	-	-	-	-	-	-	-					
25	Blue crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	JAN-DEC
	Channeled whelk		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
30	Blue crab		X	X	X	X	X	X	X	X	X	X	X	X	-	MAY-SEP	MAY-NOV	JAN-DEC	JAN-DEC
	Channeled whelk		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Northern quahog (hard clam)		X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	MAY-OCT	MAY-OCT	JAN-DEC	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
			-	-	-	-	-	-	-	-	-	-	-	-				
25	Bottlenose dolphin					X	X	X	X	X	X	X			-	-	-	-
	Common dolphin					X	X	X	X	X	X				-	-	-	-
	Harbor porpoise		X	X	X	X							X		-	-	-	-
	Harbor seal		X	X							X	X	X		-	-	-	-
	Humpback whale	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	-	-
30	Bottlenose dolphin					X	X	X	X	X	X				-	-	-	-
	Harbor porpoise		X	X	X	X							X		-	-	-	-
	Harbor seal		X	X						X	X	X			-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
			-	-	-	-	-	-	-	-	-	-	-	-					
25	Green sea turtle	T T				X	X	X	X	X	X	X			-	-	-	MAY-NOV	-
	Kemp's ridley sea turtle	E E				X	X	X	X	X	X				-	-	-	MAY-NOV	MAY-NOV
	Leatherback sea turtle	E E				X	X	X	X	X	X				-	-	-	-	MAY-NOV
	Loggerhead sea turtle	T T				X	X	X	X	X	X				-	-	-	MAY-NOV	MAY-NOV
27	Diamondback terrapin		X	X	X	X	X	X	X	X	X				MAY-JUL	-	-	MAR-NOV	MAR-NOV
30	Green sea turtle	T T				X	X	X	X	X	X				-	-	-	MAY-NOV	-
	Kemp's ridley sea turtle	E E				X	X	X	X	X	X				-	-	-	MAY-NOV	MAY-NOV
	Leatherback sea turtle	E E				X	X	X	X	X	X				-	-	-	-	MAY-NOV
	Loggerhead sea turtle	T T				X	X	X	X	X	X				-	-	-	MAY-NOV	MAY-NOV
94	Diamondback terrapin		X	X	X	X	X	X	X	X	X				-	-	-	MAR-NOV	MAR-NOV

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
57	AQUACULTURE: HARD CLAMS		
58	AQUACULTURE: OYSTERS		

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
147	CHINCOTEAGUE ISLAND NWR	U.S. FISH AND WILDLIFE SERVICE	757/336-6122