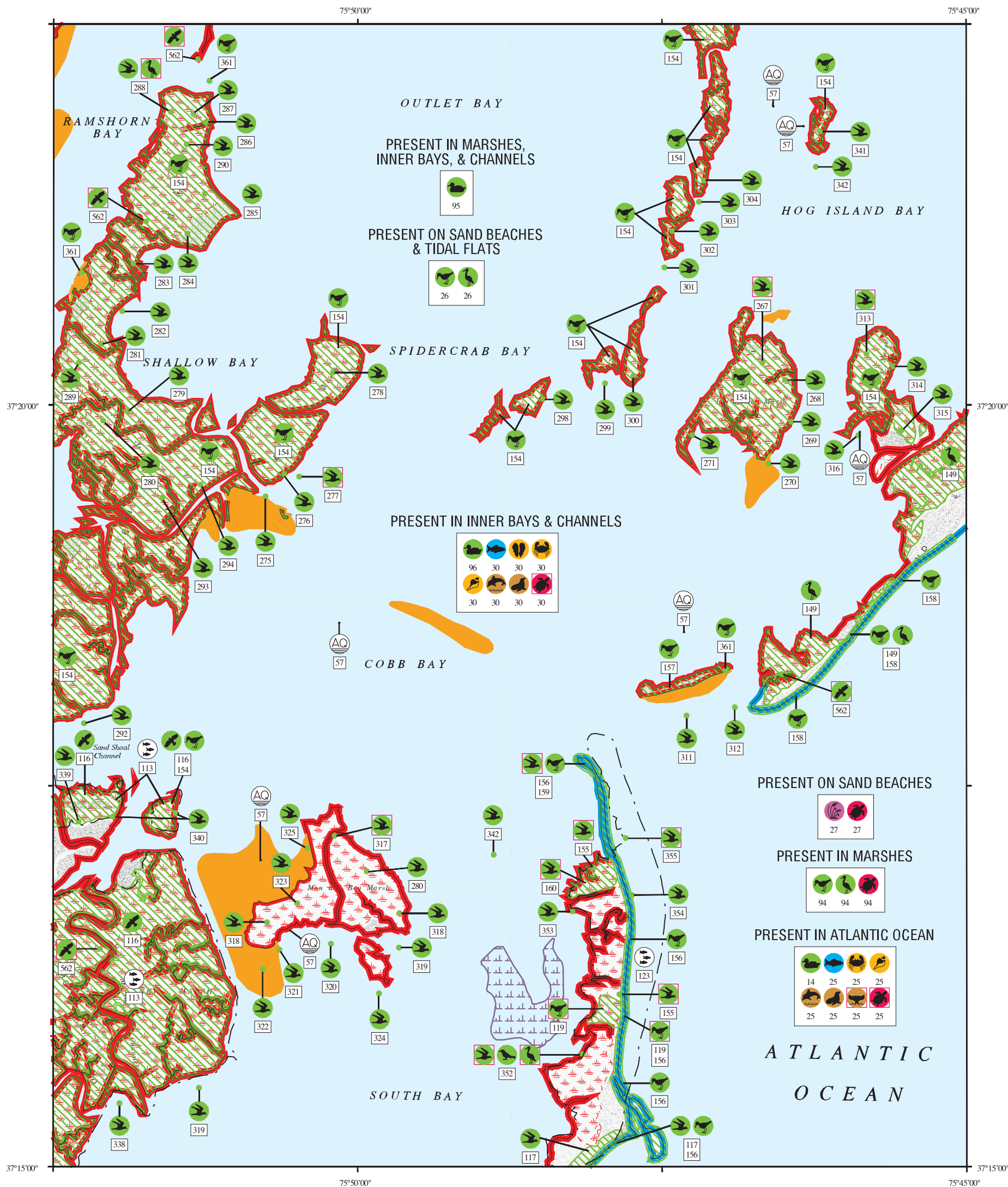
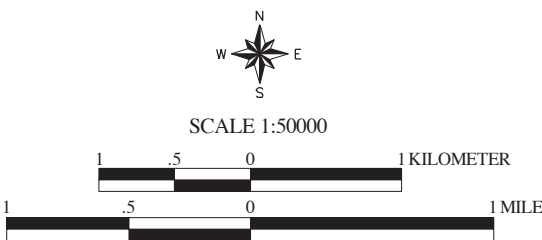


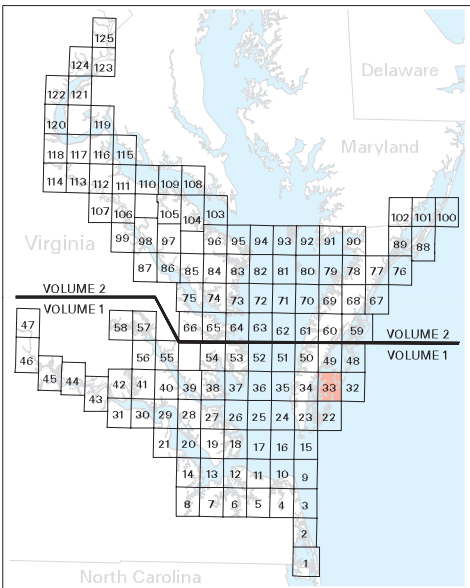
ENVIRONMENTAL SENSITIVITY INDEX MAP



- 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



Virginia: ESIMAP 33

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	X	-	-	-
	Dunlin		X	X	X	X	X			X	X	X	X	X	-	-	-
	Greater yellowlegs			X	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	X	-	-	-
	Lesser yellowlegs			X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pectoral sandpiper						X	X	X	X	X	X	X		-	-	-
	Red knot			X	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	X	-	-	-
	Semipalmated sandpiper			X	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	X		-	-	-
	Western sandpiper						X	X	X	X	X	X	X		-	-	-
	Whimbrel			X	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	-	-
95	American black duck	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	American wigeon	MODERATE	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	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Green-winged teal	MODERATE	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	MODERATE	X	X	X	X					X	X	X		-	-	-
	Northern shoveler	LOW	X	X	X	X					X	X	X		-	-	-
	Snow goose	HIGH	X	X	X	X					X	X	X		-	-	-
96	Bufflehead	HIGH	X	X	X	X					X	X	X		-	-	-
	Long-tailed duck	MODERATE	X	X	X	X					X	X	X		-	-	-
	Mergansers	HIGH	X	X	X	X					X	X	X		-	-	-
	Scoters	HIGH	X	X	X	X					X	X	X		-	-	-
	Tundra swan	MODERATE	X	X	X	X					X	X	X		-	-	-
116	American kestrel	ABUNDANT									X	X	X		-	-	-
	Broad-winged hawk	COMMON									X	X	X		-	-	-
	Merlin	COMMON									X	X	X		-	-	-
	Red-tailed hawk	ABUNDANT	X	X							X	X	X	X	-	-	-
	Sharp-shinned hawk	ABUNDANT									X	X	X		-	-	-
117	Gulls					X	X	X	X	X	X				MAY-JUL	-	-
119	Piping plover	T T		X	X	X	X	X	X	X	X				APR-SEP	-	-
149	American bittern		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Black rail			X	X	X	X	X	X	X	X	X	X		APR-JUN	-	-
	Least bittern		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
154	American oystercatcher	HIGH		X	X	X	X	X	X	X					MAR-JUL	-	-
155	Least tern	C		X	X	X	X	X	X						MAY-JUL	-	-
156	American oystercatcher	46 ADULTS		X	X	X	X	X	X	X					MAR-JUL	-	-
157	American oystercatcher	12 ADULTS		X	X	X	X	X	X	X					MAR-JUL	-	-
158	American oystercatcher	24 ADULTS		X	X	X	X	X	X	X					MAR-JUL	-	-
159	Black skimmer			X	X	X	X	X	X	X					MAY-JUL	-	-
	Common tern			X	X	X	X	X	X	X					MAY-JUL	-	-
	Gull-billed tern	T		X	X	X	X	X	X	X					MAY-JUL	-	-
	Royal tern			X	X	X	X	X	X	X					MAY-JUL	-	-
160	Black skimmer	644 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Common tern	390 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Gull-billed tern	T 121 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Royal tern	3500 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Sandwich tern	C 444 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
267	Forster's tern	58 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Gull-billed tern	T 1 ADULT		X	X	X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	24 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
268	Forster's tern	25 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	1000 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
269	Laughing gull	140 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
270	Laughing gull	700 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
271	Great black-backed gull	2 ADULTS	X X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Herring gull	50 ADULTS		X	X	X	X	X							MAY-JUL	-	-
	Laughing gull	1700 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
275	Laughing gull	15 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
276	Herring gull	1 ADULT		X	X	X	X	X	X						MAY-JUL	-	-
	Laughing gull	30 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
277	Common tern	3 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Gull-billed tern	T 67 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
278	Forster's tern	15 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	300 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
279	Great black-backed gull	5 ADULTS	X X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Herring gull	20 ADULTS		X	X	X	X	X	X						MAY-JUL	-	-
	Laughing gull	3000 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
280	Forster's tern	50 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
281	Great black-backed gull	2 ADULTS	X X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Herring gull	15 ADULTS		X	X	X	X	X							MAY-JUL	-	-
	Laughing gull	500 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
282	Laughing gull	120 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
283	Laughing gull	80 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
284	Laughing gull	100 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
285	Laughing gull	800 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
286	Laughing gull	400 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
287	Forster's tern	54 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
288	Great black-backed gull	15 ADULTS	X X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Great egret	C 15 ADULTS	X X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Herring gull	97 ADULTS		X	X	X	X	X							MAY-JUL	-	-
	Laughing gull	300 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
	Snowy egret	26 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
289	Laughing gull	31 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
290	Forster's tern	27 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
292	Laughing gull	200 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-
293	Forster's tern	10 ADULTS		X	X	X	X	X	X	X					MAY-JUL	-	-
294	Herring gull	5 ADULTS		X	X	X	X	X							MAY-JUL	-	-
	Laughing gull	230 ADULTS		X	X	X	X	X	X	X	X				MAY-JUL	-	-

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 33 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
298	Laughing gull	22 ADULTS				X	X	X	X	X	X	X	X		MAY-JUL	-	-
299	Forster's tern	15 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
	Herring gull	5 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	300 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
300	Herring gull	17 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	600 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
301	Laughing gull	675 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
302	Forster's tern	30 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Laughing gull	300 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
303	Laughing gull	225 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
304	Forster's tern	150 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
311	Great black-backed gull	46 ADULTS	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL	-	-
	Herring gull	261 ADULTS				X	X	X	X	X					MAY-JUL	-	-
312	Black skimmer	310 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Common tern	106 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Royal tern	2 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
313	Black skimmer	11 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Common tern	143 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Great black-backed gull	2 ADULTS	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL	-	-
	Gull-billed tern	13 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Laughing gull	131 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
314	Laughing gull	900 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
315	Forster's tern	30 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Laughing gull	400 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
316	Forster's tern	50 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Laughing gull	1100 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
317	Common tern	29 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Gull-billed tern	21 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Laughing gull	200 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
318	Laughing gull	70 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
319	Laughing gull	30 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
320	Laughing gull	40 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
321	Laughing gull	130 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
322	Laughing gull	125 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
323	Laughing gull	190 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
324	Laughing gull	300 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
325	Herring gull	2 ADULTS				X	X	X	X						MAY-JUL	-	-
	Laughing gull	200 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
338	Laughing gull	325 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
339	Laughing gull	275 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
340	Laughing gull	50 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
341	Forster's tern	35 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Herring gull	1 ADULT				X	X	X	X	X					MAY-JUL	-	-
	Laughing gull	100 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
342	Laughing gull	60 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
352	Black-crowned night-heron	90 ADULTS	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL	-	-
	Brown-headed cowbird	120 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Cattle egret	12 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Glossy ibis	32 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Great egret	166 ADULTS	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL	-	-
	Herring gull	1044 ADULTS				X	X	X	X	X					MAY-JUL	-	-
	Little blue heron	8 ADULTS				X	X	X	X						MAY-JUL	-	-
	Royal tern					X	X	X	X	X	X				MAY-JUL	-	-
	Sandwich tern					X	X	X	X	X	X				MAY-JUL	-	-
	Snowy egret	48 ADULTS				X	X	X	X	X	X	X			MAY-JUL	-	-
	Tricolored heron	58 ADULTS	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL	-	-
	White ibis					X	X	X	X	X					MAY-JUL	-	-
353	Forster's tern	200 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
354	Forster's tern	30 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
355	Black skimmer	332 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Common tern	210 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Gull-billed tern	16 ADULTS				X	X	X	X	X	X				MAY-JUL	-	-
	Least tern	50 ADULTS				X	X	X	X	X					MAY-JUL	-	-
361	American oystercatcher	HIGH	X	X	X						X	X	X	X	-	-	-
562	Peregrine falcon					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		-	-	-	AUG-DEC	MAY-NOV
	Atlantic mackerel						X	X							-	-	-	-	MAR-APR
	Atlantic menhaden		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	MAY-OCT
	Black drum						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			-	-	-	MAY-NOV	APR-NOV
	Butterfish						X	X	X	X	X	X	X		-	-	-	JUL-NOV	MAR-NOV
	Crevalle jack		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			-	-	-	-	MAR-OCT
	Pollock		X	X	X	X								X	-	-	-	-	DEC-APR
	Red drum						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		MAY-JUL	-	-	APR-NOV	APR-NOV
	Summer flounder		X	X	X	X	X	X	X	X	X	X	X		-	-	OCT-MAY	-	APR-NOV
	Tautog		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	APR-NOV
30	Alewife						X	X	X	X					-	-	-	-	FEB-JUN
	American eel		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	American shad					X	X	X	X						-	-	-	-	FEB-JUN
	Atlantic croaker						X	X	X	X	X	X	X		-	-	-	MAY-DEC	-
	Atlantic herring					X	X	X	X						-	-	-	-	FEB-JUN
	Atlantic mackerel					X	X								-	-	-	-	MAR-APR
	Atlantic menhaden						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				-	-	-	-	APR-OCT
	Black sea bass						X	X	X	X					-	-	-	APR-SEP	APR-SEP
	Blueback herring					X	X	X	X	X	X	X			-	-	FEB-JUN	FEB-OCT	FEB-JUN
	Bluefish						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	-

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 33 (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	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
	Minnows		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	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	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
	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		-	-	-	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				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

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			-	-	-	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		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
113	MOCKHORN WILDLIFE MANAGEMENT AREA	VDGIF	804/367-1000
123	WRECK ISLAND NATURAL AREA PRESERVE	VA DCR DNH	757/787-5576