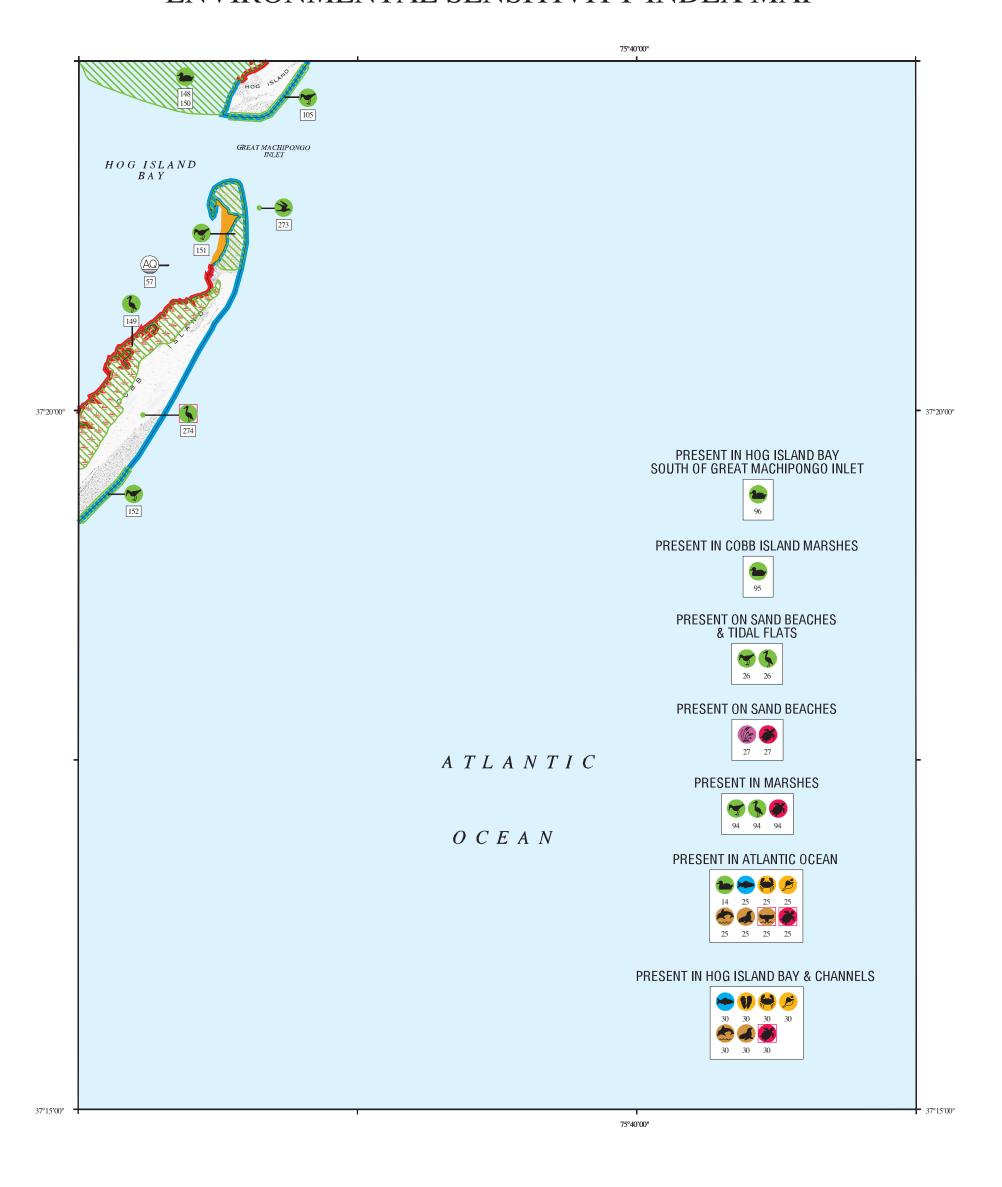
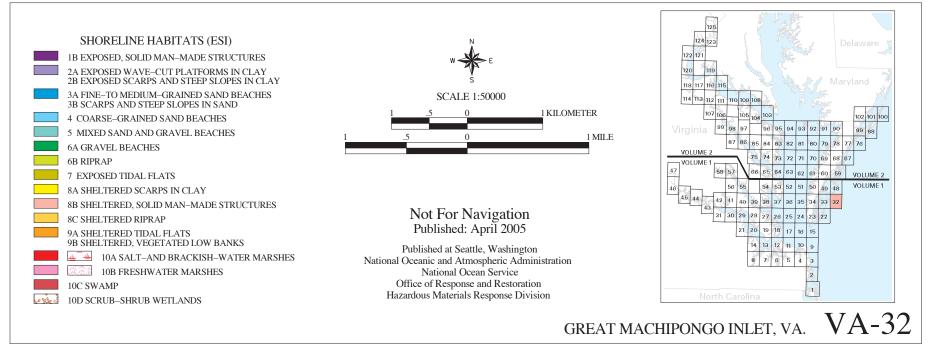
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 32

BIOLOGICAL RESOURCES:

BIRD	:
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BIRD	:											
RAR#	Species	SF	Conc.	JFM	AMJJ	AS	OND	Nesting	Migrating	Molting	Į.	
14	Black scoter Surf scoter		HIGH	X X X X X X X X X X X X X X X X X X X			X X X X	_	_	_		
	White-winged scoter			XXX			XX	_	_	_		
26	American woodcock			XX	21	Х	XXX	_	_	_		
	Black-bellied plover			X	X X X X	ХХ	ХХ	-	-	-		
	Dunlin			X X X	ХХ	Х	X X X	-	-	-		
	Greater yellowlegs			X	XXXX		XX	-	-	-		
	Killdeer				X X			-	-	-		
	Least sandpiper				XXXX			-	_	-		
	Lesser yellowlegs Pectoral sandpiper			Λ	XXXX	XX		_	_	_		
	Red knot			Х	XXXX		21 21	_	_	_		
	Ruddy turnstone				X X X X			-	_	_		
	Sanderling			X X X	X X X X	ХХ	X X X	-	-	-		
	Semipalmated plover			X	X X X X	ХХ	X X	-	-	-		
	Semipalmated sandpiper				X X X X			-	-	-		
	Short-billed dowitcher			XXX	XXXX			_	-	_		
	Stilt sandpiper Western sandpiper					X X		_	_	_		
	Whimbrel			Х	XXXX		21 21	_	_	_		
	White-rumped sandpiper				ХХ			_	_	_		
	Willet			X X X	X X X X	ХХ	X X X	-	-	-		
94	Clapper rail		HIGH					APR-AUG	-	-		
	King rail				XXXX			-	-	-		
	Sora				XX		XX	- APR-JUN	-	_		
	Virginia rail Whimbrel		HIGH		XX	XX		APR-JUN	_	_		
	Willet		HIGH					APR-SEP	_	_		
95	American black duck		HIGH					MAR-JUL	_	_		
	American wigeon		MODERATE	X X X	X		X X X	-	-	-		
	Brant		HIGH	X X X			X X X	-	-	-		
	Canada goose		HIGH					APR-JUN	-	-		
	Gadwall		MODERATE MODERATE					APR-JUN -	_	-		
	Green-winged teal Mallard		MODERATE	XXX			XXX	- MAY-JUL	_	_		
	Northern pintail		MODERATE	XXX			XXX	- -	_	_		
	Northern shoveler		LOW	XXX			XXX	_	_	_		
	Snow goose		HIGH	X X X	X		ххх	-	_	_		
96	Bufflehead		HIGH	X X X	X		X X X	-	-	-		
	Long-tailed duck		MODERATE	X X X			X X X	-	-	-		
	Mergansers		HIGH	XXX			XXX	-	-	-		
	Scoters		HIGH MODERATE	X X X X X X X X X X X X X X X X X X X			XXX	_	_	-		
105	Tundra swan American oystercatcher		4 ADULTS		XXXX		XXX	- MAR-JUL	_	_		
	Bufflehead		MODERATE	XXX			ххх	-	_	_		
210	Long-tailed duck		1103514115	XXX			XXX	_	_	_		
	Mergansers			X X X	X		ХХХ	-	-	-		
	Scoters			X X X	X		X X X	-	-	-		
149	American bittern							APR-JUN	-	_		
	Black rail				XXXX			APR-JUN	-	-		
1 = 0	Least bittern		HTCH.					APR-JUN	-	_		
130	American black duck American wigeon		HIGH MODERATE	XXX			XXX	MAR-JUL -	_	_		
	Brant		HIGH	XXX			XXX	_	_	_		
	Canada goose		MODERATE					APR-JUN	_	_		
	Gadwall		MODERATE	X X X	X X X X	ХХ	X X X	APR-JUN	-	_		
	Green-winged teal			X X X	X		X X X	-	-	-		
	Mallard		MODERATE					MAY-JUL	-	_		
	Northern pintail			X X X			X X X		-	-		
1 5 1	Northern shoveler		67 DIDDC	XXX			XXX		-	_		
131	American oystercatcher American oystercatcher		67 BIRDS 7 ADULTS	XXX	XXXX		XXX	- MAR-JUL	_	_		
152	American oystercatcher		8 ADULTS		XXXX			MAR-JUL	_	_		
	Great black-backed gull		13 ADULTS					MAY-JUL	-	-		
	Herring gull		346 ADULTS	X X X	X X X X	ХХ	X X X	MAY-JUL	-	-		
274	Black-crowned night-heron		8 ADULTS					MAY-JUL	-	-		
	=		14 ADULTS		XXXX			MAY-JUL	-	-		
			6 ADULTS					MAY-JUL	_	-		
	Little blue heron Snowy egret	C	4 ADULTS 4 ADULTS		XXXX			MAY-JUL MAY-JUL	_	_		
	= = =	С	13 ADULTS					MAY-JUL	_	_		
		_										
FISH	:											
RAR#	Species	SF	Conc.	JFM	AMJJ	AS	OND	Spawning	Eggs	Larvae	Juveniles	Adults
25	Atlantic croaker					ХХ	XXX	-	-	-	AUG-DEC -	MAY-NOV
	Atlantic mackerel Atlantic menhaden				X X X X X	v v	v v v	_	_	_	- JAN-DEC	MAR-APR MAY-OCT
	Black drum				XXXX			_	_	_	JAN-DEC	APR-OCT
	Black sea bass				XXXX				_	_	APR-OCT	APR-OCT
	Bluefish				X X X X	ХХ	ХХ	-	-	-	MAY-NOV	APR-NOV
	Butterfish			X	X X X X	ХХ	ХХ	-	-	-	JUL-NOV	MAR-NOV
	Crevalle jack			XXX	X X X X					_	JAN-DEC	-
	Northern kingfish			17	XXXX			MAY-AUG -	-	-	-	APR-OCT
	Northern searobin Pollock			XXXX	XXXX	ХХ	X X	_	_	_	_	MAR-OCT DEC-APR
	Red drum			AAA	XXX	хх		JUL-NOV	_	_	_	MAY-NOV
	Red hake			ХХ	ХХ		XX	-	_	_	FEB-MAY	FEB-MAY
												SEP-NOV
	Sandbar shark				XXX	ХХ	Χ	-	-	-	MAY-OCT	MAY-OCT
	Scup (porgy)				X X X X			-	-	-	JUN-OCT	MAR-OCT
	Silver hake			XXX			XXX	-	-	-	-	OCT-MAY
	Southern kingfish (whiting)				XXXX	ХХ	Х	-	-	-	-	APR-OCT
	Spanish mackerel				XX		хх	_	_	_	- -	APR-MAY
	Spiny dogfish Spot			XXX	XXXXX	χу			_		- MAR-NOV	NOV-APR MAR-NOV
	Spotted hake					X X		_	_	DEC-APR	MAR-NOV MAR-JUN	MAR-NOV MAR-JUN
	Tribook Mano			Λ		Λ	41				0011	SEP-NOV
	Spotted seatrout				X X X X	ХХ	ХХ	MAY-JUL	_	_	APR-NOV	APR-NOV
	Summer flounder			X X X	X X X X			-	-	OCT-MAY	-	APR-OCT
	Tautog			X X X				APR-AUG	-	-	-	JAN-DEC
0.0	Weakfish			47 4-	XXXX			APR-AUG		MAY-AUG	APR-NOV	APR-NOV
30	Gobies					хХ	ххх	APR-SEP -		APR-OCT	JAN-DEC	JAN-DEC
	Hickory shad Hogchoker				XXX	χу	x x v	- MAY-SEP	- MAY-SEP	- MAY-SEP	- JAN-DEC	FEB-JUN JAN-DEC
	Killifish							MAI-SEP MAR-SEP	MAI-SEP	MAI-SEP	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Minnows							APR-AUG	-	_	JAN-DEC	JAN-DEC
	Mummichog			X X X	X X X X	ХХ	X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Northern pipefish			X X X	X X X X	ХХ	X X X	-	-	-	JAN-DEC	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 32 (cont.)

BIOLOGICAL RESOURCES: (cont.)

	: (cont.)							
AR#	Species	S F Conc.	JFMAMJJASOND	Spawning	Eggs	Larvae	Juveniles	Adults
30	Northern searobin		ххх	_	-	_	JUN-AUG	JUN-AUG
	Pollock		XXXX	-	-	-	-	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 X X	-	-	-	FEB-MAY	FEB-MAY
			W W W W W				MANY OOM	SEP-NOV
	Sandbar shark		XXXXX	_	-	_	MAY-OCT	MAY-OCT
	Scup (porgy) Silver hake		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	JUN-OCT -	MAR-OCT OCT-MAY
	Silver perch		X X X X X X X X X X X X X X X X X X X		APR-MAY	APR-JUN	JAN-DEC	JAN-DEC
	Silversides		XXXXXXXXXXXX		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 X X X X X X X X X X X X X	-	-	-	OCT-APR	_
	Spotted seatrout		X X X X X X X X		-	-	APR-NOV	APR-NOV
	Striped anchovy		X X X X X X X X		-	-	APR-NOV	APR-NOV
	Summer flounder		X X X X X X X X	-	-	-	APR-NOV	APR-NOV
	Tautog		XXXX XXX		-	-	- MAD 000	OCT-APR
	Weakfish White hake		XXXXXXX	APR-AUG -	_	_	MAR-OCT	APR-OCT
	white hake		X X X X X X	_	-	_	-	MAR-MAY SEP-NOV
	White perch		x	7 DD _ TIINI	APR-JUN	APR-JUN	JAN-DEC	JAN-DEC
	Winter flounder		X X X X X X X X X X X X X X X X X X X		APR-50N -	APR-JUN -	DEC-JUL	DEC-MAY
	Alewife		XXXXX	_	_	_	-	FEB-JUN
	American eel		X X X X X X X X X X X X X X X X X X X	_	_	_	JAN-DEC	-
	American shad		XXXXX	-	-	-	-	FEB-JUN
	Atlantic croaker		$\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{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	-	-	-	MAY-NOV	MAY-OCT
	Bay anchovy		X X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Black drum		XXXXXX	-	-	-	- ADD GED	APR-OCT
	Black sea bass		XXXXXX	-	_	- -	APR-SEP	APR-SEP
	Blueback herring Bluefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	FEB-JUN -	FEB-OCT MAY-OCT	FEB-JUN MAY-OCT
	Crevalle jack		X X X X X X X X X X X X X X X X X X X	_	_	_	JAN-DEC	MAI-001 -
	cievalie jack						OTAN DEC	
ΒI	TAT:							
۲#	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 X X X X X X X					
	Native coastal strand vegetation		X X X X X X X 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 X X X X X X X					
	Southern beach spurge		X X X X X X X X X X X X X X X X X X X					
VE	RTEBRATE:							
₹#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
-								
5	Blue crab		X X X X X X X 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 X X X X X X X		-	-	JAN-DEC	JAN-DEC
0	Blue crab		X 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 X X X X X X X		- MAN OCE	- MAN OCE	JAN-DEC	JAN-DEC
	Northern quahog (hard clam)		X X X X X X X X X X X X X	MAY-OCT	MAY-OCT	MAY-OCT	JAN-DEC	JAN-DEC
RI	NE MAMMAL:							
#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting	
_								
5	Bottlenose dolphin		X X X X X X X	-	-	-	-	
	Common dolphin		X X X X X X	-	-	-	-	
	Harbor porpoise		X X X X X X		-	-	-	
	Harbor seal		X X X X		-	-	-	
	Humpback whale	E E	X X X X X X X X X X X X X		JAN-DEC	-	-	
U	Bottlenose dolphin		XXXXXXX		-	_	-	
	Harbor porpoise		X X X X X X		_	_	_	
	Harbor seal		X X X X X	_	-	-	-	
PΤ	ILE:							
۲#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internest	ing Juveni	les Adu
	Green sea turtle	тт	X X X X X X X	-	-	-	MAY-NO	
			X X X X X X X	-	-	-	MAY-NO	
	Kemp's ridley sea turtle	D D	X X X X X X X	-	-	-	_	
	Leatherback sea turtle	E E	17 17 17 17 17 17 17 17	-	-	-	MAY-NO	
25	Leatherback sea turtle Loggerhead sea turtle	r r T T	X X X X X X X			_	MAR-NO	V MAR
:5	Leatherback sea turtle Loggerhead sea turtle Diamondback terrapin	ТТ	X X X X X X X X X X		_			
25	Leatherback sea turtle Loggerhead sea turtle Diamondback terrapin Green sea turtle	тт тт	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL -	-	-	MAY-NO	
25	Leatherback sea turtle Loggerhead sea turtle Diamondback terrapin Green sea turtle Kemp's ridley sea turtle	T T T T E E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		- - -	-	MAY-NO' MAY-NO'	V MAY
25 27	Leatherback sea turtle Loggerhead sea turtle Diamondback terrapin Green sea turtle Kemp's ridley sea turtle Leatherback sea turtle	T T T T E E E E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		- - - -	- - -	MAY-NO' MAY-NO' -	V MAY MAY
25 27 30	Leatherback sea turtle Loggerhead sea turtle Diamondback terrapin Green sea turtle Kemp's ridley sea turtle	T T T T E E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		- - - -		MAY-NO' MAY-NO'	V MAY MAY V MAY

HUMAN USE RESOURCES:

AQUACULTURE:

57 AQUACULTURE: HARD CLAMS