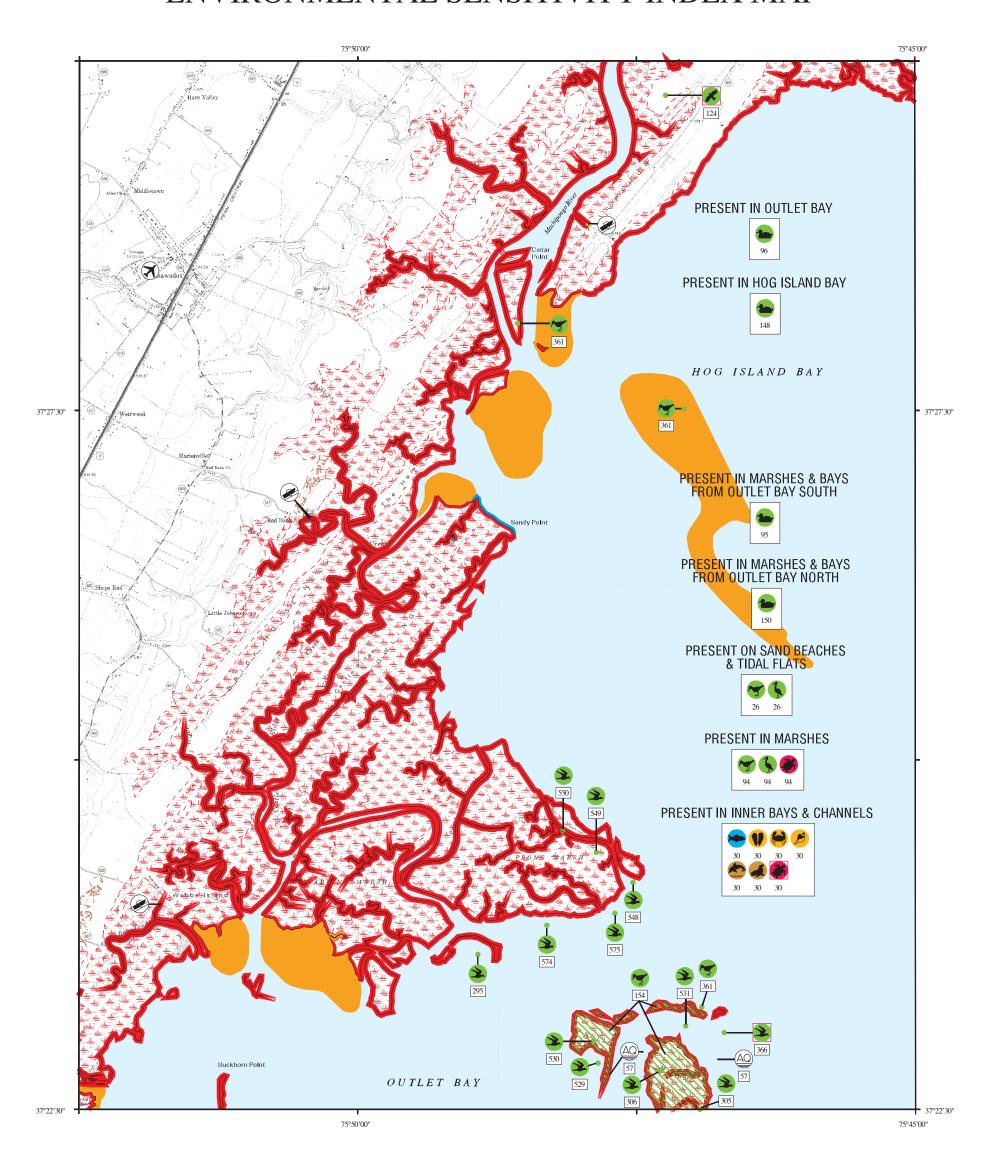
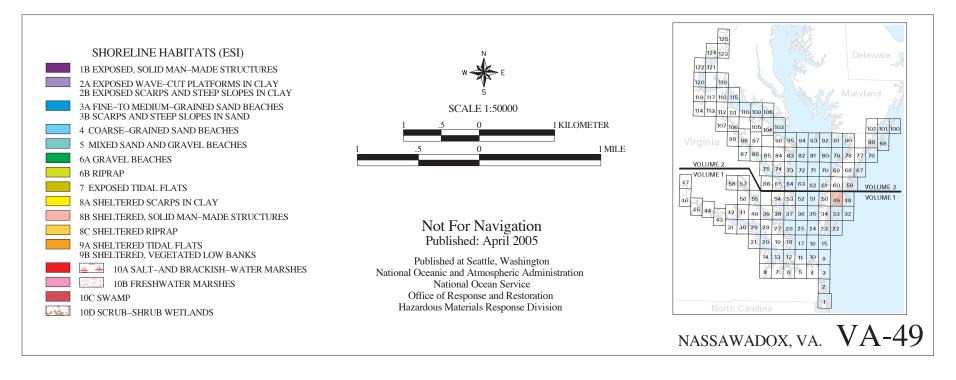
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 49

BIOLOGICAL RESOURCES:

BIRD	:
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BIRD	:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting	3	
26	American woodcock		X X X X X X X	-		-		
	Black-bellied plover		$\times \times $	-	-	-		
	Dunlin Greater yellowlegs		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Killdeer		XXXX	-	-	_		
	Least sandpiper		X X X X X X X X X	-	-	-		
	Lesser yellowlegs Pectoral sandpiper		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Red knot		XXXXXX	-	-	-		
	Ruddy turnstone		X X X X X X	-	-	-		
	Sanderling Semipalmated plover		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Semipalmated sandpiper		\times \times \times \times \times \times \times	-	-	-		
	Short-billed dowitcher		X X X X X X X X X X X X	-	-	-		
	Stilt sandpiper Western sandpiper		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Whimbrel		$X \times X \times X \times X$	-	-	-		
	White-rumped sandpiper		XXX	-	-	-		
94	Willet Clapper rail	HIGH	X X X X X X X 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 X	-	_	-		
	Virginia rail Whimbrel	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APK-JUN -	_	_		
	Willet	HIGH	X X X X X X X X	APR-SEP	-	-		
95	American black duck	HIGH MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR-JUL -	-	_		
	American wigeon Brant	MODERATE HIGH	XXXX XXX	_	_	_		
	Canada goose	HIGH	$\times \times $	APR-JUN	-	-		
	Gadwall	MODERATE MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN -	-	_		
	Green-winged teal Mallard	MODERATE	X X X X X X X X X X X X X		_	_		
	Northern pintail	MODERATE		-	-	-		
	Northern shoveler	LOW	X X X X X X X X	-	-	-		
96	Snow goose Bufflehead	HIGH HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Long-tailed duck	MODERATE			-	-		
	Mergansers	HIGH	X X X X X X X X	-	-	-		
	Scoters Tundra swan	HIGH MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
124	Bald eagle	тт		FEB-MAY	-	-		
148	Bufflehead	MODERATE	X X X X X X X X X	-	-	-		
	Long-tailed duck Mergansers		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Scoters		X X X X X X X X X	-	-	-		
150	American black duck	HIGH	X X X X X X X X X X X X X	MAR-JUL	-	-		
	American wigeon Brant	MODERATE HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Canada goose	MODERATE	\times		-	-		
	Gadwall	MODERATE	X X X X X X X X X X X X X		-	-		
	Green-winged teal Mallard	MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAY-JUL	_	_		
	Northern pintail		X X X X X X X X	-	-	-		
154	Northern shoveler		X X X X X X X X X	-	-	-		
	American oystercatcher Laughing gull	HIGH 205 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR-JUL MAY-JUL	_	_		
	Forster's tern	85 ADULTS	X X X X X X X X	MAY-JUL	-	-		
	Herring gull	1 ADULT	X X X X X X X X X X X X		-	-		
306	Laughing gull Laughing gull	160 ADULTS 175 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	_	_		
	American oystercatcher	HIGH	x x x	-	-	-		
366	Black skimmer	56 ADULTS	X X X X X X X X	MAY-JUL	-	-		
	Caspian tern Common tern	C 2 ADULTS 6 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	_	_		
	Herring gull	3 ADULTS	$\times \times $		-	-		
	Laughing gull	6 ADULTS	X	MAY-JUL	-	-		
529	Royal tern Laughing gull	69 ADULTS 150 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	_	_		
	Great black-backed gull	2 ADULTS	X X X X X X X X		-	-		
	Herring gull	2 ADULTS	X X X X X X X X X X X X X		-	-		
531	Laughing gull Herring gull	673 ADULTS 5 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	_	_		
	Laughing gull	60 ADULTS	$X \; X \; X$	MAY-JUL	-	-		
548	Great black-backed gull	2 ADULTS	X X X X X X X X X X X X X X X X X X X		-	-		
	Herring gull Laughing gull	6 ADULTS 190 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	-	_		
	Laughing gull	127 ADULTS	$\times \times $	MAY-JUL	-	-		
550	Forster's tern	11 ADULTS 31 ADULTS	X	MAY-JUL	_	_		
574	Laughing gull Laughing gull	807 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	-	-		
	Laughing gull	93 ADULTS	$\times \times $	MAY-JUL	-	-		
FISH	:							
	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
30	Alewife American eel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	_	- JAN-DEC	FEB-JUN -
	American eei American shad		X X X X X X X X X X X X X X X X X X X	-	_	_	JAN-DEC -	- FEB-JUN
	Atlantic croaker		X X X X X X X X	-	-	-	MAY-DEC	-
	Atlantic herring Atlantic mackerel		X X X X X X X X X X X X X X X X X X X	_	-	-	-	FEB-JUN
	Atlantic mackerer Atlantic menhaden		x x	_	_	_	- MAY-NOV	MAR-APR MAY-OCT
	Bay anchovy		$\times \times $	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Black drum		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	- 7 DD_CED	APR-OCT
	Black sea bass Blueback herring		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-		- FEB-JUN	APR-SEP FEB-OCT	APR-SEP 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 X X X X X X X		- and adv	- л DD_ОСТ	JAN-DEC	- TAN-DEC
	Gobies Hickory shad		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-SEP -	APR-SEP -	APR-OCT	JAN-DEC -	JAN-DEC FEB-JUN
	Hogchoker		$\times \times $		MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Killifish Minnows		X X X X X X X X X X X X X X X X X X X		-	_	JAN-DEC	JAN-DEC
	Minnows Mummichog		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Northern pipefish		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Northern searobin Pollock		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	JUN-AUG -	JUN-AUG
	Pollock Red drum		$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	- AUG-SEP	DEC-APR MAY-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 49 (cont.)

BIOLOGICAL RESOURCES: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N 1	Spawning	Eggs	Larvae	Juveniles	Adults
30	Red hake		X 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 X X X X X X X X X X X	ζ –	-	-	-	OCT-MAY
	Silver perch		X X X 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 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 X X X	ζ –	_		OCT-APR	_
	Spotted seatrout		XXXXXXX	MAY-JUL	_		APR-NOV	APR-NOV
	Striped anchovy		$X \times X \times X \times X \times X$	APR-SEP	_		APR-NOV	APR-NOV
	Summer flounder		XXXXXXX	_	_		APR-NOV	APR-NOV
	Tautog		XXXX XXX	ζ –	_	_	-	OCT-APR
	Weakfish		XXXXXXXX	APR-AUG	_	_	MAR-OCT	APR-OCT
	White hake		X X X X X X X X	AFK-AUG	_	_	- -	MAR-MAY
	WILLE Hake		A A A A A A	_	_	_	_	SEP-NOV
	rate to a second		** ** ** ** ** ** ** ** ** ** ** **	, and Time	3 DD 71131	3 DD TIIN	TAN DEG	
	White perch		X X X X X X X X X X X X X X X X X X X		APR-JUN		JAN-DEC	JAN-DEC
	Winter flounder		XXXXXX	-	-	-	DEC-JUL	DEC-MAY
NVE	RTEBRATE:							
AR#	Species	S F Conc.	J F M A M J J A S O N 1		Eggs	Larvae	Juveniles	Adults
30	Blue crab		X X X X X X 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	ζ –	_	_	JAN-DEC	JAN-DEC
	Northern quahog (hard clam)		X X X X X X X X X X X X X X X X X X X		MAY-OCT	MAY-OCT	JAN-DEC	JAN-DEC
IART	NE MAMMAL:							
AR#	Species	S F Conc.	J F M A M J J A S O N i) Mating	Calving	Pupping	Molting	
30	Bottlenose dolphin		X X X X X X	-	-	-		
	Harbor porpoise			ζ –	_	_	_	
	Harbor seal		X X X X X X		_	_	_	
≀E₽T	ILE:							
		S F Conc.	J F M A M J J A S O N i	Nesting	Hatching	Internesti	.ng Juveni	les Adult
AR#	Species							
			V V V V V V V			_	MAV_NO	7
	Green sea turtle	T T	XXXXXX	-	-	-	MAY-NOV	
	Green sea turtle Kemp's ridley sea turtle	E E	$X\ X\ X\ X\ X\ X\ X$	- - -	-	-	MAY-NO	V MAY-N
	Green sea turtle Kemp's ridley sea turtle Leatherback sea turtle	E E E E	$\begin{smallmatrix} X & X & X & X & X & X & X & X & X & X $	- - -	- - -	- - - -	MAY-NOV	V MAY-N MAY-N
30	Green sea turtle Kemp's ridley sea turtle	E E	$X\ X\ X\ X\ X\ X\ X$	- - - - -	 - - -	- - - -	MAY-NO	V MAY MAY V MAY

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone

AQUACULTURE: HARD CLAMS