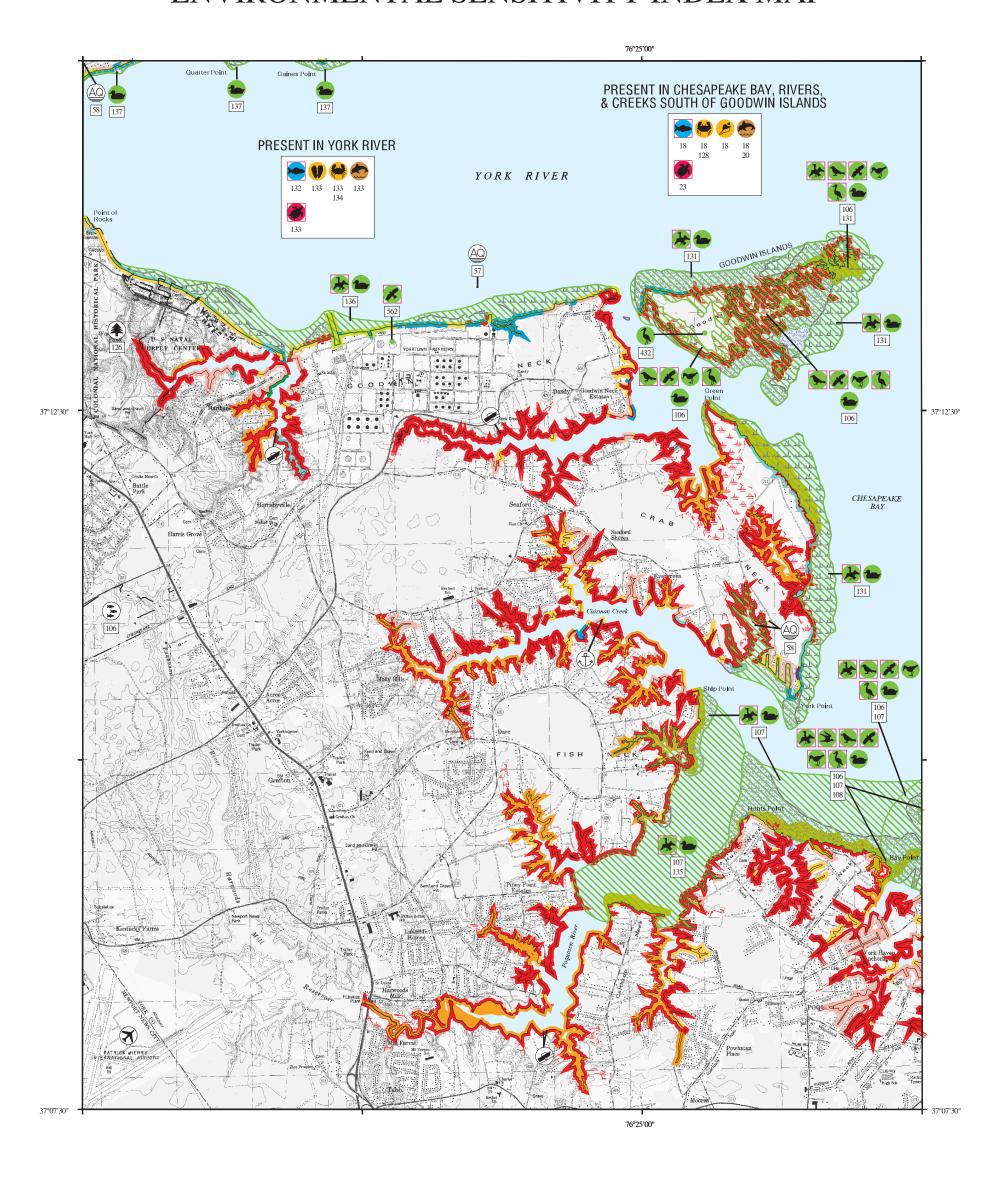
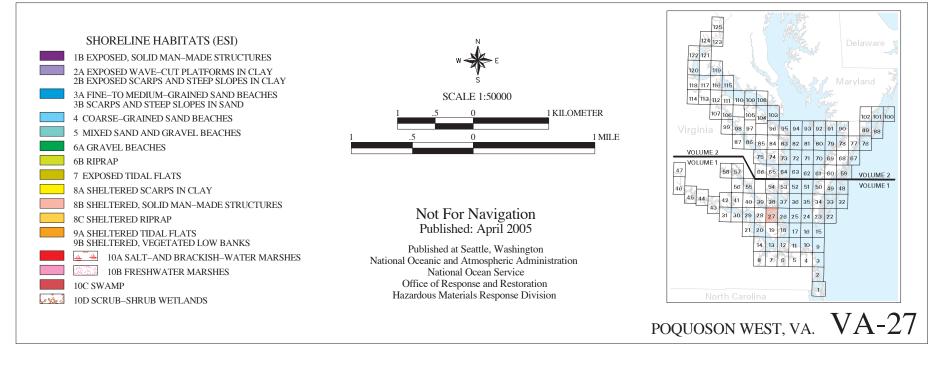
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 27

BIOLOGICAL RESOURCES:

Sandbar shark

BIRD	:
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RAR# Species

	Species	S F Conc.	J F M A M J J A S O N D				j.	
	American black duck		X X X X X X X X X X X X X				· -	
100	American wigeon		X X X X X X X X X		_	_		
	Black-necked stilt		X X X X X X	-	-	-		
	Blue-winged teal		X X			-		
	Brant		X X X X X X X X X X X X X X X X X X X	-	-	-		
	Canada goose		X X X X X X X X X X X X X		-	_		
	Glossy ibis	С		-	-	-		
	Great blue heron Great egret	С	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Green-winged teal	C		_		_		
	Mallard		X X X X X X X X X X X X		_	_		
	Northern harrier	С	X X X X X X X X X	MAR-MAY	-	-		
	Osprey		$X \ X \ X \ X$	-	-	-		
	Red-shouldered hawk		X X	-	-	-		
	Saltmarsh sharp-tailed sparrow	C	X X X X X X X X X X X X X		-	-		
	Sedge wren	С	XXXXXX	MAY-JUL -	-	_		
	Snow goose Snowy egret		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Striated heron		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	_	_	_		
	Tricolored heron	С	X X X	-	_	-		
	Yellow-crowned night-heron	С	X X X	-	-	-		
107	Brant	VERY HIGH	X X X X X X X X X X X X X X X X X X X		-	-		
	Brown pelican	С	X X X X X X		-	_		
	Bufflehead	HIGH	X X X X X X X X X		_	-		
	Canvasback Common goldeneye		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Common loon		XX		_	_		
	Double-crested cormorant		XXXX		_	_		
	Long-tailed duck			-	-	-		
	Mergansers		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-		
	Ruddy duck			-	-	-		
	Scaup	HIGH		-	-	-		
	Scoters Tundra swan	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
108	American oystercatcher		XXXXX		_	_		
100	Black skimmer		XX	_	_	_		
	Common tern		X X X X	_	_	_		
	Great black-backed gull		X X X X X X	-	-	-		
	Laughing gull		$X \ X \ X \ X$	-	-	-		
	Least tern	С	X X	-	-	-		
	Lesser yellowlegs		X X X X X X	_	-	-		
	Piping plover Royal tern	ТТ	X X X X X X	_	_	-		
	Sandwich tern	С	XX	_	_	_		
	Short-billed dowitcher	C	X X X X	_	_	_		
	Willet		XXXX	_	_	_		
131	Brown pelican	С	X X X X X X	-	-	-		
	Bufflehead	VERY HIGH		-	-	_		
	Canvasback		X X X X X X X X X X X X X X X X X X X		-	-		
	Common goldeneye		X X X X X X X X		-	-		
	Common loon Double-crested cormorant		$\begin{array}{c} X \ X \\ X \ X \ X \end{array}$		_	_		
	Long-tailed duck		XXXX XXX		_	_		
	Mergansers		X X X X X X X X		_	_		
	Scaup		$X X X X \qquad X X X$		_	_		
	Scoters	VERY HIGH	$X \ X \ X \ X$ $X \ X \ X$	-	-	-		
	Mallard		$\times \times $		-	-		
136	Bufflehead	HIGH	X X X X X X X X		-	-		
	Long-tailed duck			_	-	_		
	Mergansers Scaup		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Scoters	MODERATE		_	_	_		
137	American black duck			-	-	_		
	American wigeon		$X \ X \ X \ X$ $X \ X \ X$	-	-	-		
	Brant			-	-	-		
	Bufflehead	MODERATE		-	-	-		
	Canada goose			_	-	_		
	Long-tailed duck Mallard		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Mergansers		X X X X X X X X		_	_		
	Scaup		X X X X X X X X		_	_		
	Scoters		$X X X X \qquad X X X$	-	-	-		
	Great blue heron	10 NESTS	$\times \times $		-	-		
562	Peregrine falcon	T	X X X X X X	MAR-AUG	-	_		
FISH	:							
_		S.F.Conc.	JEMAMJJASOND	Spawning	Eaas	Larvae	Juveniles	Adults
	Species							
18	Alewife		X X X X X	-	-	-	-	FEB-JUN
	American eel		$\mathbf{X} \ \mathbf{X} \ \mathbf{X}$		-	-	JAN-DEC	SEP-DEC
	American shad		X X X X X X X X X X X X X X X X X X X		-	-	NOV-MAR	JAN-JUN
	Atlantic croaker Atlantic mackerel		$\begin{smallmatrix} & & \times $	_	_	_	AUG-DEC -	MAY-NOV MAR-APR
	Atlantic menhaden		X X X X X X X X X X X X	_		MAY-NOV	JAN-DEC	MAY-OCT
	Atlantic silverside		\times		_	-	JAN-DEC	JAN-DEC
	Atlantic spadefish		X X X X	_	_	-	AUG-OCT	AUG-NOV
	Atlantic sturgeon	C	X X X X X X X X X X X	-	-	-	-	JAN-OCT
	Bay anchovy		$\times \times $	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Black drum		X X X X X X X X	APR-JUN	APR-JUN	APR-JUN	APR-NOV	APR-NOV
	Black sea bass		XXXXXXX	JUN-OCT -	_	-	APR-OCT	APR-OCT
	Blueback herring Bluefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	NOV-MAR MAY-NOV	JAN-JUN APR-NOV
	Butterfish		X	_	_	_	JUL-NOV	MAR-NOV
	Clearnose skate		XXXXXXX	_	-	_	-	MAY-NOV
	Gobies		$\times \times $			APR-OCT	JAN-DEC	JAN-DEC
	Harvestfish		X X X X X X X	_	-	-	JUL-OCT	APR-OCT
	Hickory shad				-	-	NOV-MAR	JAN-JUN
	Hogchoker		X X X X X X X X X X X X X			MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside 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 kingfish		X X X X X X X X X X X X X X X X X X X	APK-AUG -	_	_	JAN-DEC -	APR-OCT
	Northern pipefish		X X X X X X X X X X X X X		-	_	JAN-DEC	JAN-DEC
	Northern puffer		X X X X X X X X	MAY-AUG	-	-	MAR-OCT	MAR-OCT
	Northern searobin		X X X X X X X X	MAY-JUL	-	-	-	MAR-OCT
	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	-	-	-	FEB-MAY	FEB-MAY SEP-NOV
								~ 14○ A

S F Conc. J F M A M J J A S O N D Nesting Migrating Molting

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.

x x x x x x - - -

MAY-OCT

MAY-OCT

Virginia: ESIMAP 27 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

	: (CONT.) Species	S F Conc.		лF	' M' Z	м.т	.т ъ	9 O N D	Spawning	Eggs	Larvae	.T1137	eniles	Adu:	+e
18	Scup (porgy) Silver hake			ХХ	XX	X X X	ХХ.	$\begin{array}{cccc} \mathbf{x} & \mathbf{x} \\ & \mathbf{x} & \mathbf{x} & \mathbf{x} \end{array}$	-	-	_		-OCT -	MAR.	
	Silver perch								APR-MAY	-	-		-DEC		-DEC
	Spot Spotted hake			ХХ		XX		$X \ X \ X \ X $	-	_	DEC-APR -		-NOV -JUN	MAR· MAR·	-NOV -JUN
	-													SEP-	-NOV
	Spotted seatrout Striped bass			хх				$f x \ \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ f x \ f $	MAY-JUL -	_	_		-NOV -DEC	APR. JAN.	
	Striped killifish			ХХ	XX	ХХ	X X	X	APR-SEP	-	-	JAN	-DEC	JAN-	-DEC
	Summer flounder Tautog				XX		X X	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	OCT-MAY -		-DEC -		-OCT -APR
	Threadfin shad				XX			XXX	-	-	-		-	FEB:	-MAY
	Weakfish				v	y y	v v ·	XXX	APR-AUG	_	MAY-AUG	ΔPR	-NOV	SEP-	-NOV
132	Alewife			Х	XX		Λ Λ .	A A A	-	-	-		-		-JUN
	American eel American shad				XXX		X X	XXXX	_	-	_		-DEC -		- -JUN
	Atlantic croaker						хх	x	-	-	-	JAN	-DEC		-
	Atlantic mackerel Atlantic menhaden			v v	XX		v v ·	XXXX	_	_	- MAY-NOV		- -DEC	MAR· MAY·	-APR -OCT
	Atlantic silverside								MAR-JUL	-	-	JAN	-DEC	JAN-	-DEC
	Atlantic spadefish Atlantic sturgeon	С		хх	xx	хх		X X X X X	_	_	_		-OCT -	AUG-	-NOV -OCT
	Bay anchovy	· ·			XX	ХХ	ХХ	X	APR-SEP	-	-	JAN	-DEC	JAN-	-DEC
	Black drum Black sea bass					X X		X X X x x	APR-JUN JUN-OCT	APR-JUN -	APR-JUN -		-NOV -OCT	APR-	
	Blueback herring			Х	XX	ХХ			-	-	-		-	FEB:	-JUN
	Bluefish Butterfish							X	_	_	-		-NOV -NOV	APR. MAR.	
	Clearnose skate					ХХ	ХХ	XXX	-	-	-		_	MAY	-NOV
	Gobies Harvestfish			ХХ		X X X X			APR-SEP	APR-SEP	APR-OCT		-DEC -OCT	JAN- APR-	-DEC -OCT
	Hickory shad			Х	XX		21 21 .		-	-	-		-	FEB:	-JUN
	Hogchoker Inland silverside								MAY-SEP APR-MAY	MAY-SEP -	MAY-SEP -		-DEC -DEC	JAN- JAN-	
	Minnows			ХХ	XX	ХХ	X X	x x x x	APR-AUG	-	-	JAN	-DEC	JAN-	-DEC
	Mummichog Northern kingfish			XX		X X X X			APR-AUG -	-	-		-DEC -	JAN- APR-	-DEC
	Northern pipefish			ХХ					MAY-JUN	_	_		-DEC		-DEC
	Northern puffer Northern searobin					X X X X			MAY-AUG MAY-JUL	-	-		-OCT	MAR.	
	Red drum				Λ Λ			x x x	JUL-NOV	-	-		- -SEP	MAY.	
	Red hake			X	XX	Χ		XXX	-	-	-	FEB	-MAY		-MAY -NOV
	Sandbar shark					ХХ	X X	ХХ	_	_	_	MAY	-OCT	MAY.	
	Scup (porgy)			37 37		ХХ			-	-	-	JUN	-OCT	MAR- OCT-	
	Silver hake Silver perch					X X X		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	JAN	- -DEC	JAN-	
	Spot			XX				X X X X		-	DEC-APR			JAN-	
	Spotted hake				ХХ	ХХ		XXX	-	-	-	MAR	-JUN	MAR. SEP.	
	Spotted seatrout						хх	X X X		-	-		-NOV	APR-	-NOV
	Striped bass Striped killifish				XX		x x :	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-SEP	_	_		- -DEC	OCT. JAN.	
	Summer flounder			ХХ	XX	ХХ	ХХ	X	-	-	-	JAN	-DEC		-
	Tautog Threadfin shad							$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_			OCT- FEB-	-APR -may
														SEP	-NOV
	Weakfish			ХХ	XX	ХХ	X X	XXXX	-	-	-	AUG	-NOV	JAN-	-DEC
	RTEBRATE:									_	_	_			
RAR#	Species	S F Conc.		J F	· м а	м Ј	J A	S O N D	Spawning	Eggs	Larvae		eniles 	Adu.	
18	Horseshoe crab								-	-	-		-DEC		-DEC
128	Knobbed whelk Blue crab							$X \ X \ X \ X \ X$		- MAY-SEP	- MAY-NOV		-DEC -DEC	JAN· JAN·	
133	Horseshoe crab							XXXX		- MAY 00E	- MAN OCE		-DEC	JAN-	
134	Northern quahog (hard clam) Blue crab							x		MAY-OCT MAY-SEP			-DEC -DEC	JAN· JAN·	
MADT	NE MAMMAL:														
		S F Conc.		JБ	' M A	мј	JA	SOND	Mating	Calving	Pupping	Mol	ting		
	Harbor porpoise Bottlenose dolphin			ХХ	X X X	X X X		X X X	_	_	_		_		
	Bottlenose dolphin				X	ХХ	ХХ	X X		-	-		-		
	Harbor porpoise			ХХ	XX	Χ		X	-	-	-		_		
REPT															
RAR#	Species	S F Conc.		J F	'МА 	м J 	JA:	S O N D	Nesting	Hatching	Internest	ting	Juveni:	les	Adults
	Green sea turtle	тт				ХХ	ХХ	XXX	-	-	-		MAY-NO		-
	Kemp's ridley sea turtle Leatherback sea turtle Loggerhead sea turtle Green sea turtle	EE						X X X X X X X X X X X X X X X X X X X	-	-	- -		MAY-NO'		MAY-NOV MAY-NOV
	Loggerhead sea turtle	T T						XXX		_	_		MAY-NO		MAY-NOV
133								XXX		-	-		MAY-NO' MAY-NO'		-
	Kemp's ridley sea turtle Leatherback sea turtle	E E E E						X X X X X X X X X X X X X X X X X X X		-	-		MAY-NO		- MAY-NOV
	Loggerhead sea turtle	т т											MAY-NO		
	 N USE RESOURCES:					====		=====							
-	CULTURE:		6							_	1				
HUN#	Name		Contact								hone 				
57	AQUACULTURE: HARD CLAMS														
58	AQUACULTURE: OYSTERS														
	GEMENT AREA:														
HUN#	Name		Contact							P 	hone 				
106	GRAFTON PONDS NATURAL AREA PRES	SERVE	VA DCR I	ONH						8	04/445-911	7			
NATI	ONAL PARK:														
HUN#	Name		Contact							P	hone				
106															
126	COLONIAL NATIONAL HISTORICAL PA	AKK	NATIONAI	∟ PAF	kk SE	rkvic	Ľ			7	57/898-340	U			