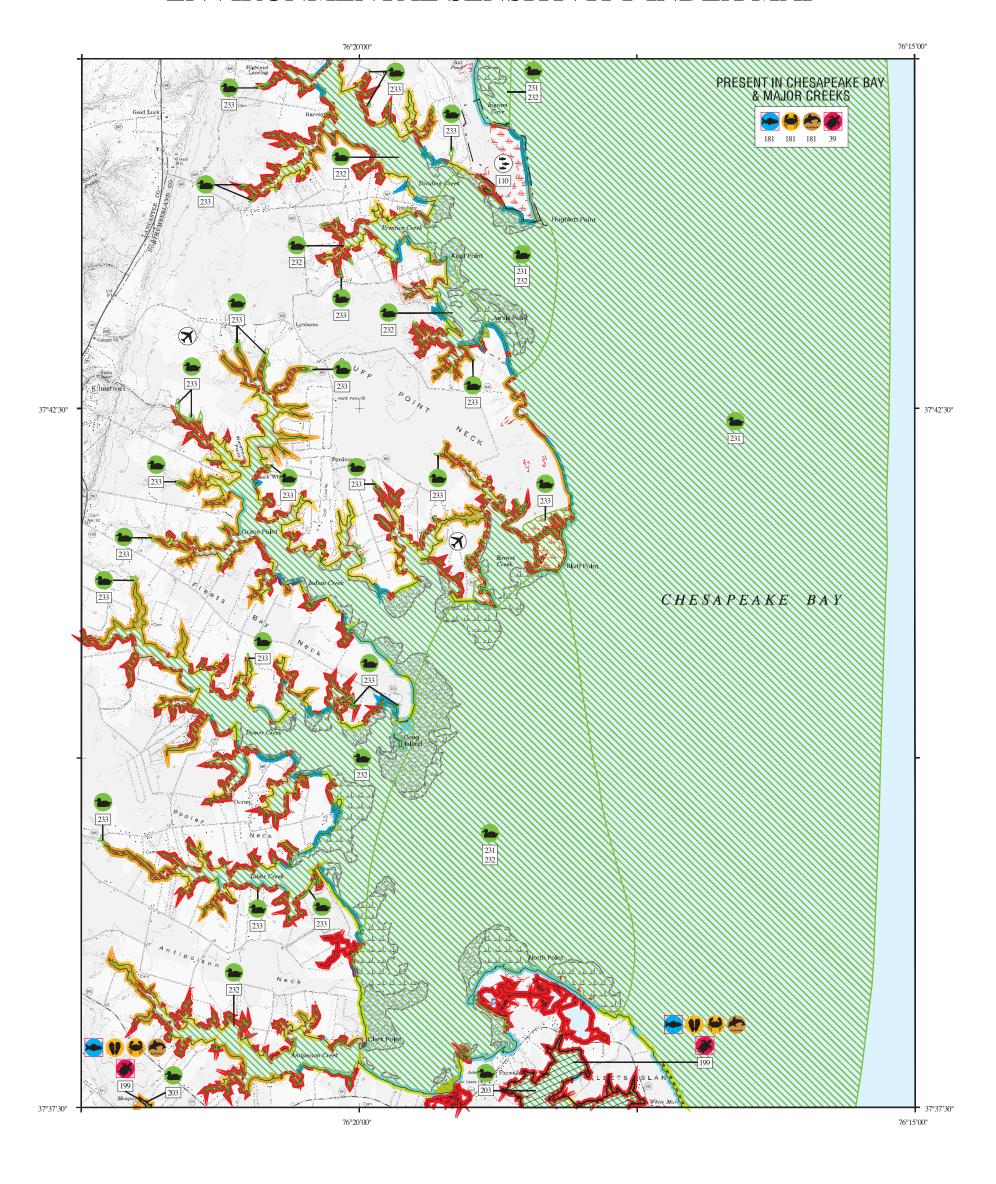
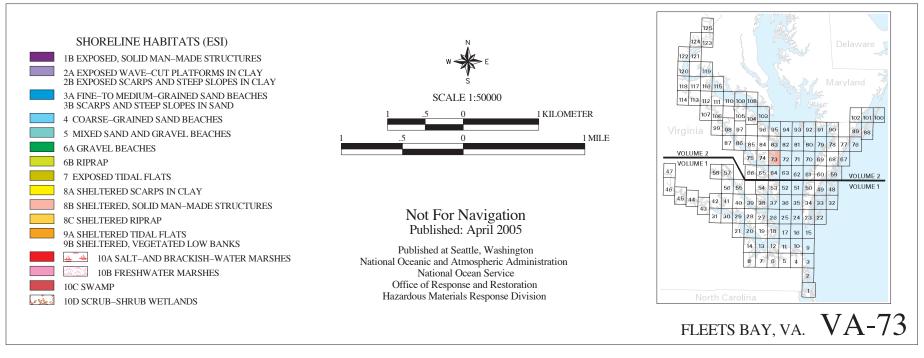
# ENVIRONMENTAL SENSITIVITY INDEX MAP





# Virginia: ESIMAP 73

### BIOLOGICAL RESOURCES:

BIRD	:
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RAR# Species

RAR#	Species	SF	Conc.	JFM	IAMJJAS	OND	Nesting	Migrating	Molting		
203	American black duck		MODERATE		·	x x x				-	
203	Bufflehead		MODERATE	XXX		XXX	_	_	_		
	Canada goose		HIGH	XXX		XXX	-	_	_		
	Canvasback		HIGH	XXX		XXX		_	_		
	Common goldeneye		111011	XXX		XXX		_	_		
	Green-winged teal			XXX		XXX		_	_		
	Long-tailed duck			XXX		XXX		_	_		
	Mallard		MODERATE	XXX		XXX		_	_		
	Mergansers		MODERATE	XXX		XXX		_	_		
	Mute swan		MODERATE	XXX		XXX		_	_		
	Ring-necked duck		MODERATE	XXX		XXX		_	_		
	Ruddy duck		HIGH	XXX		XXX		_	_		
	Scaup		MODERATE	XXX		XXX		_	_		
	Tundra swan		MODERATE	XXX		XXX		_	_		
231	Bufflehead		MODERATE	XXX		XXX		_	_		
231	Common goldeneye		MODERATE	XXX		XXX		_	_		
	Long-tailed duck			XXX		XXX		_	_		
	Mergansers			XXX		XXX		_	_		
	Mute swan			XXX		XXX		_	_		
	Ruddy duck			XXX		XXX		_	_		
	<del>-</del>			XXX		XXX		_			
	Scaup Scoters			XXX		XXX		_	_		
232	American black duck			XXX		XXX		_	_		
232	American wigeon			XXX		XXX		_	_		
	Canada goose		HIGH	XXX		XXX		_	_		
	Mallard		IIIGII	XXX		XXX		_	_		
	Tundra swan		HIGH	XXX		XXX		_	_		
222	American black duck		IIIGII	XXX		XXX	_	_	_		
233	American brack duck			AAA	. Λ	AAA					
FISH	:										
	Species	c 17	Conc.	TEM	IAMJJAS	0 N D	Cnamina	Faaa	Larvae	Juveniles	Adults
	species								Larvae	Juvenilles	Adults
	Alewife										FEB-JUN
101	American eel					· v v v	_	_	_	JAN-DEC	SEP-DEC
	American shad				XXXX	XX			_	NOV-MAR	JAN-JUN
	Atlantic croaker			ΛΛΛ	XXXXX		_		_	AUG-DEC	MAY-NOV
	Atlantic mackerel			v	XXXXX		_		_	AUG-DEC	MAR-APR
	Atlantic mackerer Atlantic menhaden					. ^ ^ ^ ^	_	_	MAY-NOV	JAN-DEC	MAY-OCT
	Atlantic menhaden Atlantic silverside				X			_	MAI-NOV	JAN-DEC	
				A A A	XXXXXX	XXX	MAK-00L	_	_	AUG-OCT	JAN-DEC AUG-NOV
	Atlantic spadefish	С		V V V			_	_	_	AUG-UC1 -	
	Atlantic sturgeon Bay anchovy	C			X		7 DD _ CED	_	_	JAN-DEC	JAN-OCT JAN-DEC
	Black drum			ΛΛΛ	X		APR-JUN	APR-JUN		APR-NOV	APR-NOV
	Black sea bass						JUN-OCT	AFK-50N	- -	APR-OCT	APR-OCT
				37 37 37	XXXXXX	. x X X	JUN-0CT	_	-		
	Blueback herring			XXX	XXXX		_	_	_	NOV-MAR	JAN-JUN
	Bluefish Butterfish			V	X X X X X X		_	_	_	MAY-NOV JUL-NOV	APR-NOV
				X	XXXXXX		_	_	-	JOT-NOA	MAR-NOV
	Clearnose skate Gobies			v v v	$f X \ X \ X \ X \ X \ X \ X \ X \ X \ X $			APR-SEP	APR-OCT	JAN-DEC	MAY-NOV JAN-DEC
	Harvestfish			A A A			- -	AFK-SEF	APR=0C1	JUL-OCT	APR-OCT
	Hickory shad			V V V	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	XX	_	_	_	NOV-MAR	JAN-JUN
	-							MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Hogchoker Inland silverside							MAI-SEP	MAI-SEP	JAN-DEC	
	Minnows							_	_	JAN-DEC JAN-DEC	JAN-DEC
	Mummichog				X			_	_	JAN-DEC	JAN-DEC JAN-DEC
	Northern kingfish			A A A			APK-AUG	_	_	JAN-DEC	
				17 17 17				_	_		APR-OCT
	Northern pipefish				X X X X X X X			-	_	JAN-DEC	JAN-DEC
	Northern puffer				X X X X X X		MAY-AUG	-		MAR-OCT	MAR-OCT
	Northern searobin			X	X X X X X X		MAY-JUL	_	_	-	MAR-OCT
	Red drum				X X X X X		JUL-NOV	-	-	AUG-SEP	MAY-NOV
	Red hake			ΧX	X X X X	XX	-	_	-	FEB-MAY	FEB-MAY
											SEP-NOV
	Sandbar shark				XXXXX		-	_	-	MAY-OCT	MAY-OCT
	Scup (porgy)				X X X X X X X		-	-	-	JUN-OCT	MAR-OCT
	Silver hake			XXX		XXX		_	-	_	OCT-MAY
	Silver perch							-	_	JAN-DEC	JAN-DEC
	Spot				X		-	-		MAR-NOV	MAR-NOV
	Spotted hake			X	XXXX	XX	-	_	_	MAR-JUN	MAR-JUN
											SEP-NOV
	Spotted seatrout				XXXXXX		MAY-JUL	_	-	APR-NOV	APR-NOV
	Striped bass				X X X X X X			-	-	JAN-DEC	JAN-DEC
	Striped killifish				X X X X X X			-	-	JAN-DEC	JAN-DEC
	Summer flounder						-	-	OCT-MAY	JAN-DEC	APR-OCT
	Tautog			XXX		XXX	_	-	-	-	OCT-APR
	Threadfin shad			X X	X X X X	XX	-	-	_	-	FEB-MAY
	Woolfich				V V V V ···		מתג		MASS 2550	7 DD 77017	SEP-NOV
100	Weakfish Alewife			V 17	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	. A A	APR-AUG	_	MAY-AUG -	APR-NOV	APR-NOV FEB-JUN
199	American eel					V V V	_		_	JAN-DEC	
	American eel American shad				X	. x x x	_	<del>-</del>		JAN-DEC NOV-MAR	SEP-DEC JAN-JUN
	American snad Atlantic croaker			AAX	. x x x		_	_	_	NOV-MAR AUG-DEC	JAN-JUN MAY-NOV
	Atlantic croaker Atlantic mackerel			**		. A A X	_	<del>-</del>	_	AUG-DEC	MAY-NOV MAR-APR
	Atlantic mackerel Atlantic menhaden				. x :	X Y Y	_	_	- MAY-NOV	JAN-DEC	MAK-APK MAY-OCT
	Atlantic silverside							_	MAI-NOV	JAN-DEC	JAN-DEC
				A A A			MAR-JUL -	_	_		
	Atlantic spadefish Atlantic sturgeon	С		V V V	x x x x x x x x	XX	_	_	_	AUG-OCT	AUG-NOV JAN-OCT
		C					7 DD _ CED	_	_		
	Bay anchovy Black drum			A A X	X X X X X X X			- APR-JUN		JAN-DEC	JAN-DEC
					XXXXXX		APR-JUN		APR-JUN -	APR-NOV	APR-NOV
	Black sea bass			v, v,	X X X X X X		JUN-OCT	_		APR-OCT	APR-OCT
	Blueback herring			ххх	XXXX	XX		_		NOV-MAR	JAN-JUN
	Bluefish				XXXXXX		-	-	-	MAY-NOV	APR-NOV
	Butterfish			Х	X X X X X X		-	-	-	JUL-NOV	MAR-NOV
	Clearnose skate			· · · · · ·	X		- 7 DD_CED	- 7 DD_CED	- л пр_ост	- TAN-DEC	MAY-NOV
	Gobies			ххх	X X X X X X X			APR-SEP	APR-OCT	JAN-DEC	JAN-DEC
	Harvestfish				XXXXXX		-	-	-	JUL-OCT	APR-OCT
	Hickory shad				XXXX	XX	- MAY CED	- MAN CED	- MAY CED	NOV-MAR	JAN-JUN
	Hogchoker							MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside				X			-	-	JAN-DEC	JAN-DEC
	Minnows							-	-	JAN-DEC	JAN-DEC
	Mummichog			ххх	X X X X X X			-	-	JAN-DEC	JAN-DEC
	Northern kingfish			· · · · · ·	X X X X X X		- M7 V - TIIN	_	_	- TAN-DEC	APR-OCT
	Northern pipefish							-	-	JAN-DEC	JAN-DEC
	Northern puffer				X		MAY-AUG	-	-	MAR-OCT	MAR-OCT
	Northern searobin			X	X X X X X X		MAY-JUL	-	-	- AUC CED	MAR-OCT
	Red drum				XXXXX		JUL-NOV	-	-	AUG-SEP	MAY-NOV
	Red hake			XX	X X X X	XX	-	-	-	FEB-MAY	FEB-MAY
	Canallana di cal				** **					M737 00=	SEP-NOV
	Sandbar shark				X X X X X		-	-	-	MAY-OCT	MAY-OCT
	Scup (porgy)			X	X X X X X X	. X	-	-	-	JUN-OCT	MAR-OCT

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.

# Virginia: ESIMAP 73 (cont.)

BIOLOGICAL RESOURCES: (cont.)

199				) Spawning	Eggs	Larvae J	Tuveniles	Adults
199								
	Silver hake		X X X X X X X X X X X X X X X X X X X		-	-	-	OCT-MAY
	Silver perch		X X X X X X X X X X X X X X X X X X X		-		AN-DEC	JAN-DEC
	Spot		X X X X X X X X X X X X X X X X X X X	<u> </u>	-		IAR-NOV	JAN-DEC
	Spotted hake		$X \ X \ X \ X \ X \ X \ X$	_	_	– M	IAR-JUN	MAR-JUN SEP-NOV
	Cnotted contrast		$\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} $	MAY-JUL		77	PR-NOV	APR-NOV
	Spotted seatrout Striped bass				-		APK-NOV IAN-DEC	JAN-DEC
	Striped bass Striped killifish		X X X X X X X X X X X X X X X X X X X		_		IAN-DEC	JAN-DEC JAN-DEC
	Summer flounder		X X X X X X X X X X X X X X X X X X X		-	~	IAN-DEC	APR-OCT
	Tautog		XXXX XXX		_	OCI-MAI C	-	OCT-APR
	Threadfin shad		X X X X X X X X X X X X X X X X X X X	_	_	_	_	FEB-MAY
	Infeadin Shad		A A A A A A A A A	_	_	_	_	SEP-NOV
	Weakfish		$\times \times \times \times \times \times \times \times$	APR-AUG	_	MAY-AUG A	PR-NOV	APR-NOV
	Weaklish		A A A A A A A	AFK-AUG	_	MAI-AUG A	ZEK-NOV	AFK-NOV
INVE	RTEBRATE:							
RAR#	Species	S F Conc.	J F M A M J J A S O N I	Spawning	Eggs	Larvae J	Tuveniles	Adults
181	Blue crab		X X X X X X X X X X X X X X X X X X X	ζ –		MAY-NOV J	AN-DEC	JAN-DEC
199	Blue crab		XXXXXXXXXXX		_		AN-DEC	JAN-DEC
	Eastern oyster		XXXXXXXXXXX	X JUN-SEP	JUN-SEP	JUN-SEP J	AN-DEC	JAN-DEC
	Horseshoe crab		XXXXXXXXXXX		_		AN-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		JAN-DEC	JAN-DEC
MAD T	NE WANGAT							
	NE MAMMAL:							
RAR#	Species	S F Conc.	J F M A M J J A S O N I	Mating	Calving	Pupping M	Molting	
181	Bottlenose dolphin		X X X X X X X	_	_	_	_	
	Harbor porpoise		X X X X X	ζ –	_	-	_	
199	Bottlenose dolphin		X X X X X X X	-	_	-	_	
	Harbor porpoise		X X X X X	- ×	-	-	-	
REPT	ILE:							
RAR#	Species	S F Conc.	J F M A M J J A S O N I	Nesting	Hatching	Internestin	ng Juvenil	les Adults
39	Green sea turtle	тт	X X X X X X X				MAY-NOV	7 –
	Kemp's ridley sea turtle	E E	XXXXXX	_	_	_	MAY-NOV	
	Leatherback sea turtle	E E	XXXXXXX	_	_	_	-	MAY-NO'
	Loggerhead sea turtle	 Т Т	$X \times X \times X \times X$	_	_	_	MAY-NOV	
			$X \times X \times X \times X$	_	_	_	MAY-NOV	
199	Green sea turtle	TT						
199				_	_	_		
199	Green sea turtle Kemp's ridley sea turtle Leatherback sea turtle	T T E E E E	X X X X X X X X X X X X X X X X X X X	-	- -	- -	MAY-NOV	

#### HUMAN USE RESOURCES:

#### MANAGEMENT AREA:

HUN#	Name	Contact	Phone
110	HUGHLETT POINT NATURAL AREA PRESERVE	VA DCR DNH	804/445-9117