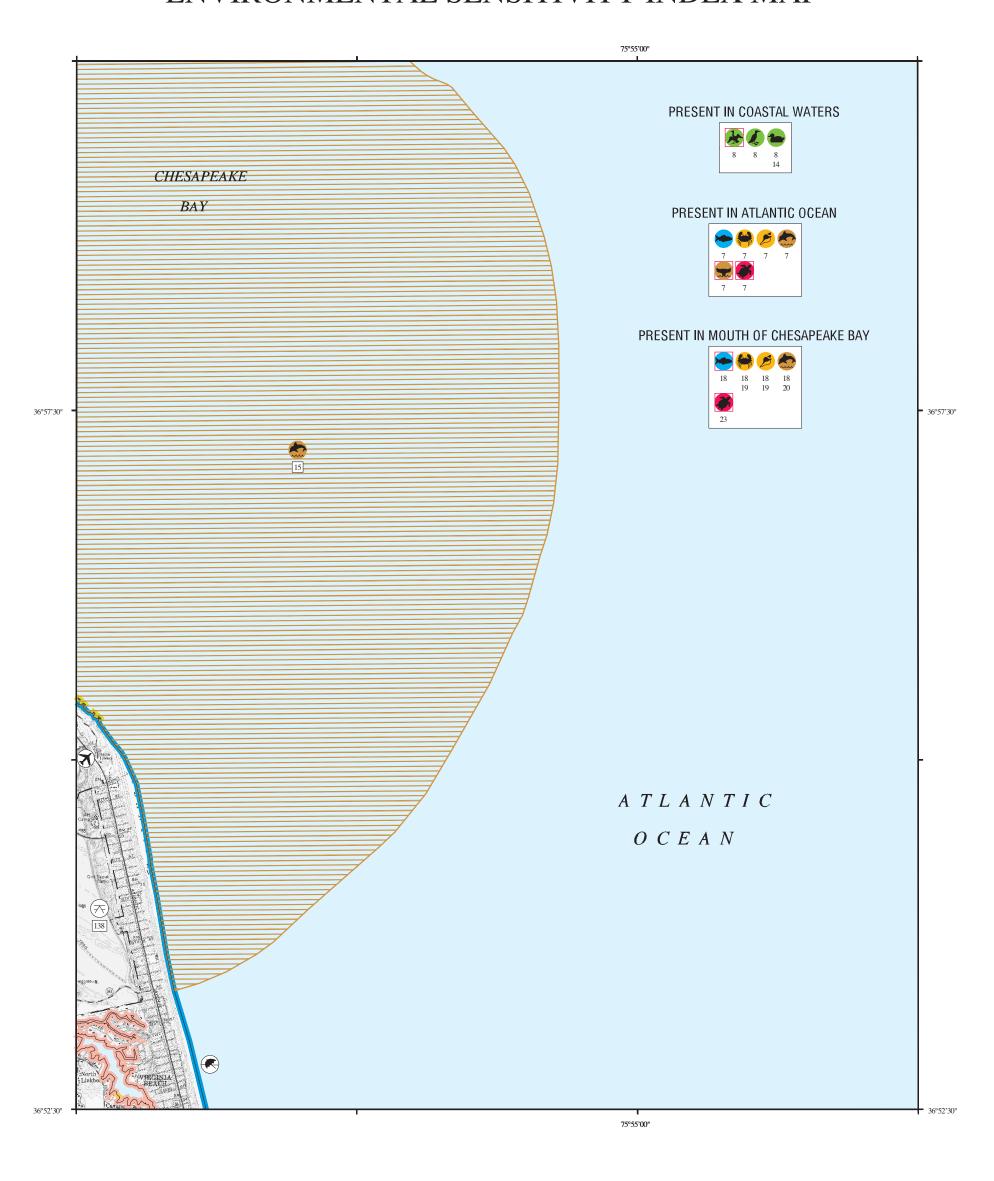
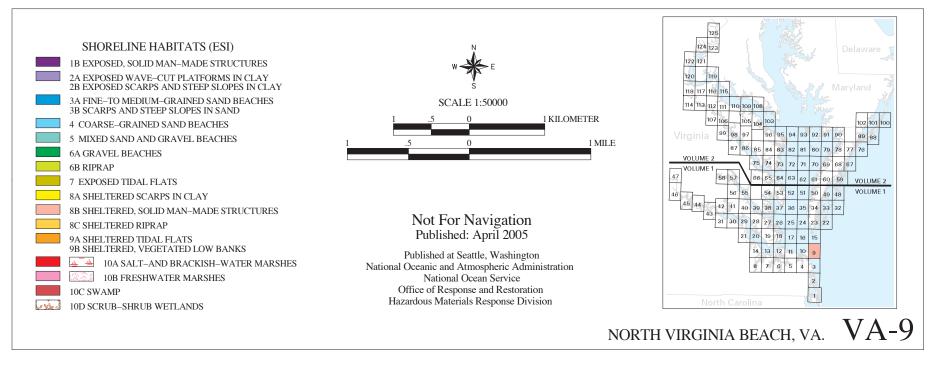
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 9

BIOLOGICAL RESOURCES:

BIRD:

RAR# Species

RAR#	Species	S F Conc.	J F M A M J J A S O N D		Migrating	Molting		
		C	X X X X X X X X X				_	
O	Common loon	C	XXX	_	_	_		
	Northern gannet	HIGH	X X X X X X		-	_		
	Red-breasted merganser	VERY HIGH	X X X X X X		_	_		
	Red-necked grebe		X X	-	-	-		
	Red-throated loon		X X X X X X X X X X X X X X X X X X X		-	-		
14	Black scoter	HIGH		-	-	-		
	Surf scoter		X X X X X X X X		-	-		
	White-winged scoter		X X X X X X X X	-	-	_		
FISH	:							
RAR#	Species	S F Conc	TEMAM TTASOND	Snawning	Eaas	T.arvae	Juveniles	Adults
	Species							
7	Atlantic croaker		X 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 X X		-	-	JAN-DEC	MAY-OCT
	Black drum Black sea bass		XXXXXX	- JUN-OCT	_	-	- APR-OCT	APR-OCT APR-OCT
	Bluefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	_	_	MAY-NOV	APR-NOV
	Butterfish		XXXXXXXXX	_	_	_	JUL-NOV	MAR-NOV
	Crevalle jack		imes ime	-	-	-	JAN-DEC	-
	Northern kingfish		X X X X X X X	MAY-AUG	-	-	-	APR-OCT
	Northern searobin		X X X X X X X X	-	-	-	-	MAR-OCT
	Pollock Red drum		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_	-	DEC-APR MAY-NOV
	Red hake		XXXX XXX	- 00L-NOV	_	_	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	-	_	-	-	OCT-MAY
	Southern kingfish (whiting) Spanish mackerel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	_	APR-OCT APR-MAY
	Spiny dogfish		XXXXXXXXX	_	_	_	_	NOV-APR
	Spot		\times		-	DEC-APR	MAR-NOV	MAR-NOV
	Spotted hake		$X \ X \ X \ X \ X \ X \ X$		-	-	MAR-JUN	MAR-JUN
								SEP-NOV
	Spotted seatrout			MAY-JUL	-	- OCE MAY	APR-NOV	APR-NOV
	Summer flounder Tautog		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	OCT-MAY	_	APR-OCT JAN-DEC
	Tautog Weakfish		X X X X X X X X X X X X X X X X X X X		_	- MAY-AUG	- APR-NOV	APR-NOV
18	Alewife		XXXXX	-	-	-	-	FEB-JUN
	American eel		$\times \times $	-	-	-	JAN-DEC	SEP-DEC
	American shad		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	NOV-MAR	JAN-JUN
	Atlantic croaker		X X X X X X X X		_	-	AUG-DEC	MAY-NOV
	Atlantic mackerel Atlantic menhaden		$\begin{array}{c} & \times \times \\ \times \times$	-	_	- MAY-NOV	- JAN-DEC	MAR-APR MAY-OCT
	Atlantic menhaden Atlantic silverside		X X X X X X X X X X X X X		_	MAI -NOV -	JAN-DEC	JAN-DEC
	Atlantic spadefish		XXXX	-	_	_	AUG-OCT	AUG-NOV
	Atlantic sturgeon	C	$\times \times $	-	-	-	-	JAN-OCT
	Bay anchovy		$\times \times $		-	_	JAN-DEC	JAN-DEC
	Black drum Black sea bass		X	APR-JUN JUN-OCT	APR-JUN -	APR-JUN -	APR-NOV	APR-NOV
	Blueback herring		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	APR-OCT NOV-MAR	APR-OCT JAN-JUN
	Bluefish		XXXXXXXX	_	_	_	MAY-NOV	APR-NOV
	Butterfish		X X X X X X X X X	-	-	_	JUL-NOV	MAR-NOV
	Clearnose skate			-	-	-	-	MAY-NOV
	Gobies		X X X X X X X X X X X X		APR-SEP	APR-OCT	JAN-DEC	JAN-DEC
	Harvestfish Hickory shad		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	JUL-OCT NOV-MAR	APR-OCT JAN-JUN
	Hogchoker		X X X X X X X X X X X X X			MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside		\times		-	-	JAN-DEC	JAN-DEC
	Minnows		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Mummichog		X X X X X X X X X X X X		-	-	JAN-DEC	JAN-DEC
	Northern kingfish Northern pipefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	— МЛУ— ПІМ	-	-	- JAN-DEC	APR-OCT JAN-DEC
	Northern puffer		XXXXXXXX		_	_	MAR-OCT	MAR-OCT
	Northern searobin		$\times \times \times \times \times \times \times \times$	MAY-JUL	_	_	_	MAR-OCT
	Red drum		X X 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
	Sandbar shark Scup (porgy)		$\begin{smallmatrix} & & \times & \times & \times & \times & \times \\ & \times & \times & \times & \times$	_	_	-	MAY-OCT JUN-OCT	MAY-OCT MAR-OCT
	Silver hake		XXXXXXXXXXX		_	_	-	OCT-MAY
	Silver perch		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	- DEC-APR	JAN-DEC	JAN-DEC
	Spot		$\begin{array}{cccccccccccccccccccccccccccccccccccc$				MAR-NOV	MAR-NOV
	Spotted hake		X X X X X X X X	-	-	-	MAR-JUN	MAR-JUN
	Spotted goot yout		V V V V V V V V	MAN TITT	_	_	ADD MOT	SEP-NOV APR-NOV
	Spotted seatrout Striped bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	APR-NOV JAN-DEC	APR-NOV 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		_		JAN-DEC	JAN-DEC
	Summer flounder		\times	-		- OCT-MAY	JAN-DEC	APR-OCT
	Tautog		$X \ X \ X \ X \qquad \qquad X \ X \ X$		-	-	-	OCT-APR
	Threadfin shad		X X X X	-	-	-	-	FEB-MAY
	Weakfish		X	סיז ג _ מס ג	_	MAY-AUG	APR-NOV	SEP-NOV APR-NOV
	MCGVTT911		A A A A A A A A	AFK-AUG	-	MAI-AUG	ALV-NOA	AFK-NUV
INVE	RTEBRATE:							
RAR#		S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
7	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
10	Channeled whelk Horseshoe crab		X X X X X X X X X X X X X X X X X X X		-	_	JAN-DEC	JAN-DEC
ТΩ	Knobbed whelk		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	_	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
19	Blue crab		X X X X X X X X X X X X X X X X X X X				JAN-DEC	JAN-DEC JAN-DEC
	Channeled whelk		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	JAN-DEC	JAN-DEC
1/2	NE MAMMAT.							
	NE MAMMAL:					_		
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting	
7	Bottlenose dolphin	_ = ===================================	X X X X X X X				_	
,	Common dolphin		XXXXXX	_	_	_	_	
	Harbor porpoise		X X X X X X X X X X X X X X X X X X X	-	-	-	-	
	Humpback whale	E E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	JAN-DEC	-	-	
	Bottlenose dolphin	HIGH	XXXXXXX	-	APR-OCT	-	-	
18 20	Harbor porpoise Bottlenose dolphin		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	_	_	- -	
20			11 11 11 11 11 11 11					

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 9 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
7	Green sea turtle	ТТ	X X X X X X X	-	-	-	MAY-NOV	-
	Kemp's ridley sea turtle	E E	X X X X X X X	-	-	-	MAY-NOV	MAY-NOV
	Leatherback sea turtle	E E	X X X X X X X	-	-	-	-	MAY-NOV
	Loggerhead sea turtle	ТТ	X X X X X X X	-	-	-	MAY-NOV	MAY-NOV
23	Green sea turtle	ТТ	X X X X X X X	-	-	-	MAY-NOV	-
	Kemp's ridley sea turtle	E E	X X X X X X X	-	-	-	MAY-NOV	MAY-NOV
	Leatherback sea turtle	E E	X X X X X X X	-	-	-	-	MAY-NOV
	Loggerhead sea turtle	ТТ	$X\ X\ X\ X\ X\ X\ X$	-	-	-	MAY-NOV	MAY-NOV

HUMAN USE RESOURCES:

PARK:

HUN#	Name	Contact	Phone
138	FIRST LANDING STATE PARK	VA DCR	757/412-2300