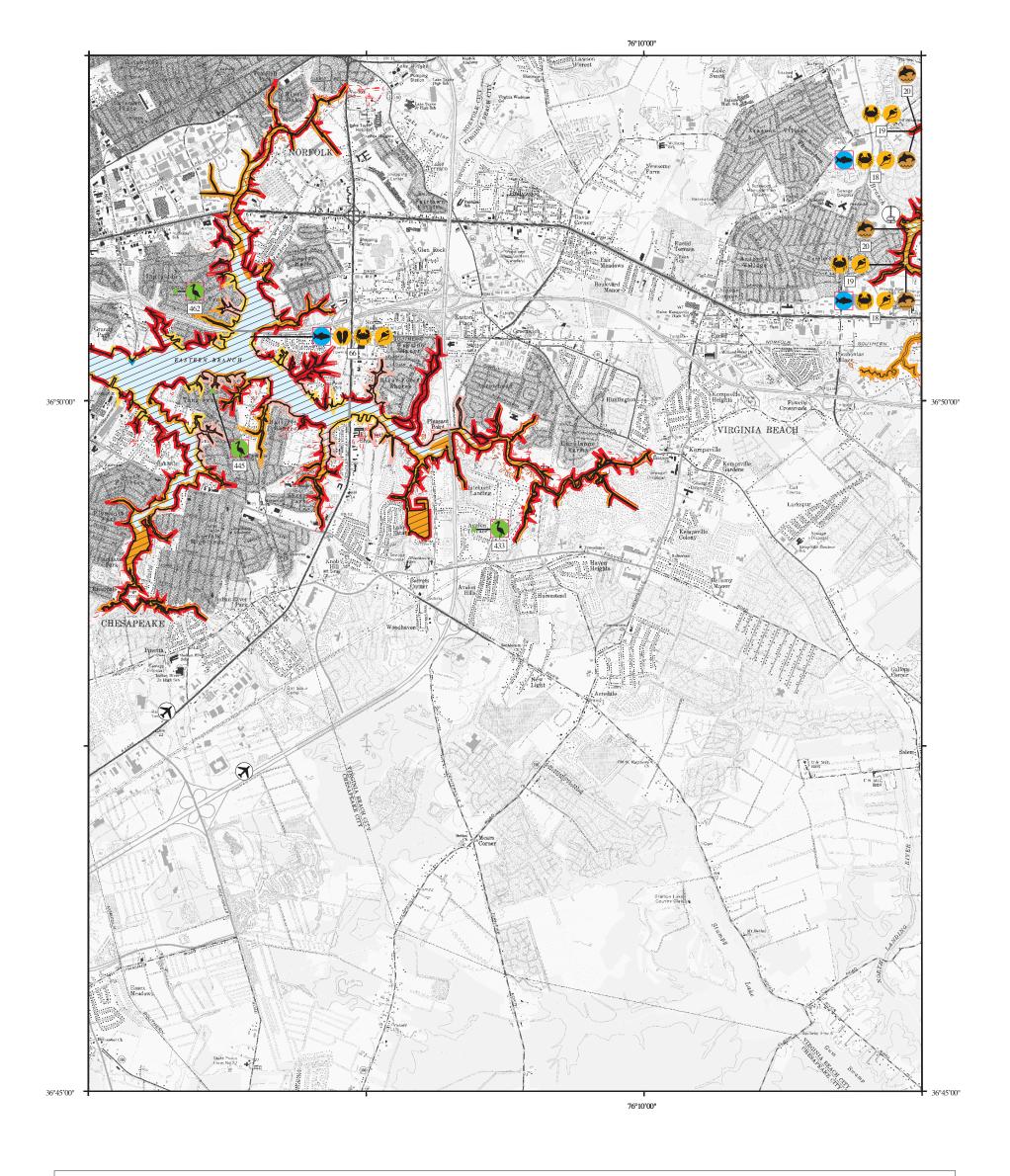
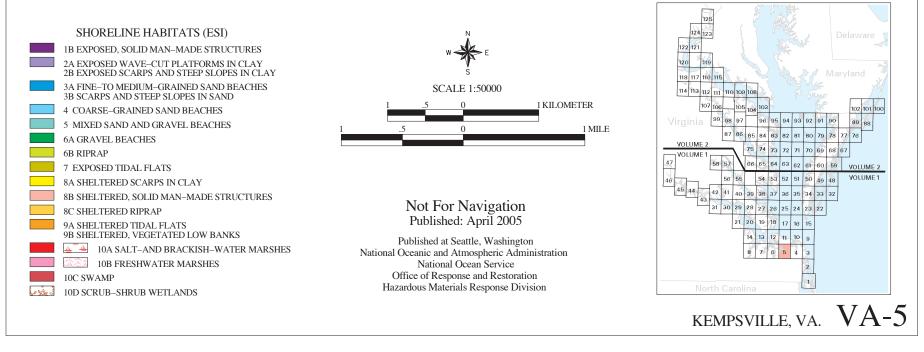
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 5

BIOLOGICAL RESOURCES:

RIKD:

BIRD	:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating		g 	
	Yellow-crowned night-heron	C 4 NESTS	$X\;X\;X\;X\;X\;X\;X\;X\;$	MAY-JUL	-	-		
	Yellow-crowned night-heron Great egret	C 5 NESTS C 9 NESTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	-	_		
402	Yellow-crowned night-heron	C 2 NESTS	X	MAY-JUL	-	-		
FISH	•							
	· Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
	21. 16.							
18	Alewife American eel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	_	- JAN-DEC	FEB-JUN SEP-DEC
	American shad		$X \; X \;$	-	-	-	NOV-MAR	JAN-JUN
	Atlantic croaker Atlantic mackerel		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	AUG-DEC -	MAY-NOV MAR-APR
	Atlantic menhaden		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	MAY-NOV	JAN-DEC	MAY-OCT
	Atlantic silverside Atlantic spadefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR-JUL -	-	_	JAN-DEC AUG-OCT	JAN-DEC AUG-NOV
	Atlantic sturgeon	C	\times \times \times \times \times \times \times \times	-	-	_	-	JAN-OCT
	Bay anchovy		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Black drum Black sea bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-JUN JUN-OCT	APR-JUN -	APR-JUN -	APR-NOV APR-OCT	APR-NOV APR-OCT
	Blueback herring		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	NOV-MAR	JAN-JUN
	Bluefish Butterfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_	MAY-NOV JUL-NOV	APR-NOV MAR-NOV
	Clearnose skate		XXXXXXX	-	-	-	-	MAY-NOV
	Gobies Harvestfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-SEP	APR-SEP	APR-OCT	JAN-DEC JUL-OCT	JAN-DEC APR-OCT
	Hickory shad		XXXXXXXXXXX	_	-	-	NOV-MAR	JAN-JUN
	Hogchoker		$\times \times $		MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Inland silverside Minnows		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Mummichog		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Northern kingfish Northern pipefish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAY-JUN	_	_	- JAN-DEC	APR-OCT JAN-DEC
	Northern puffer		\times \times \times \times \times \times	MAY-AUG	-	-	MAR-OCT	MAR-OCT
	Northern searobin Red drum		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL JUL-NOV	-	_	- AUG-SEP	MAR-OCT MAY-NOV
	Red hake		X X X X X X X X	- 00L-NOV	_	_	FEB-MAY	FEB-MAY
	Condition of the		T7 T7 T7 T7 T				MAST 007	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		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	-	OCT-MAY
	Silver perch Spot		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-MAY	-	- DEC-APR	JAN-DEC MAR-NOV	JAN-DEC MAR-NOV
	Spotted hake		X X X X X X X X X X X X X X X X X X X	-	-	-	MAR-JUN	MAR-JUN
	Control control		V V V V V V V	M 7 37 TITT			ADD MOTE	SEP-NOV
	Spotted seatrout Striped bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL -	_	-	APR-NOV JAN-DEC	APR-NOV JAN-DEC
	Striped killifish		$ \begin{smallmatrix} X & X & X & X & X & X & X & X & X & X$	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Summer flounder Tautog		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	OCT-MAY	JAN-DEC -	APR-OCT OCT-APR
	Threadfin shad		XXXXXXXXX	-	-	-	-	FEB-MAY
	Weakfish		X	APR-AUG	_	MAY-AUG	APR-NOV	SEP-NOV APR-NOV
66	Alewife		XXXXX	-	-	-	-	FEB-JUN
	American eel American shad		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	FEB-MAY NOV-MAR	- JAN-JUN
	Atlantic croaker		X X X X X X X X X X X X X X X X X X X	_	-	-	JAN-DEC	JAN-JUN -
	Atlantic mackerel		ХХ	-	-	-	-	MAR-APR
	Atlantic menhaden Atlantic silverside		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	– MAR–JUI	_	MAY-NOV -	JAN-DEC JAN-DEC	MAY-OCT JAN-DEC
	Atlantic spadefish		X X X X	-	-	_	AUG-OCT	AUG-NOV
	Atlantic sturgeon Bay anchovy	С	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-SEP	-	-	JAN-DEC JAN-DEC	APR-NOV JAN-DEC
	Black drum		$\times \times \times \times \times \times \times \times$	APR-JUN	APR-JUN	APR-JUN		APR-NOV
	Black sea bass Blueback herring		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	APR-AUG NOV-MAR	- JAN-JUN
	Bluefish		XXXXXXXX	-	-	-	MAY-NOV	APR-NOV
	Butterfish Clearnose skate		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	JUL-NOV -	MAR-NOV MAY-NOV
	Gobies		$X \times X \times$		APR-SEP	APR-OCT	JAN-DEC	JAN-DEC
	Harvestfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	JUL-OCT	APR-OCT
	Hickory shad Hogchoker		X X X X X X X X X X X X X X X X X X X			- MAY-SEP	NOV-MAR JAN-DEC	JAN-JUN JAN-DEC
	Inland silverside		\times		-	-	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	-	-	-	-	APR-OCT
	Northern pipefish Northern puffer		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUN MAY-AUG	-	-	JAN-DEC MAR-OCT	JAN-DEC MAR-OCT
	Northern searobin		X X X X X X X X	MAY-JUL	-	-	-	MAR-OCT
	Red drum Red hake		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	JUL-NOV -	-	-	AUG-SEP FEB-MAY	MAY-NOV 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		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	-	OCT-MAY
	Silver perch Spot		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	- DEC-APR	JAN-DEC MAR-NOV	JAN-DEC JAN-DEC
	Spotted hake		XXXX XXX	-	-	DEC-APK	MAR-JUN	MAR-JUN
	Chattadt		V V V V V V V	M222			ADD 31011	SEP-NOV
	Spotted seatrout Striped bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL -	-	-	APR-NOV JAN-DEC	APR-NOV JAN-DEC
	Striped killifish		$\times \times $		-	-	JAN-DEC	JAN-DEC
	Summer flounder Tautog		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-	JAN-DEC -	JAN-DEC OCT-APR
	Threadfin shad		X X X X X X X X X		-	-	-	FEB-MAY
	Meakfich		V V V V V V V V V V V V V V V V V V V				TAM. DEG	SEP-NOV
	Weakfish		X X X X X X X X X X X X	-	-	_	JAN-DEC	-
	RTEBRATE:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
18	Horseshoe crab		$\times \times $	-	-	-	JAN-DEC	JAN-DEC
1 Ω	Knobbed whelk Blue crab		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAY-OCT	- MAY-SEP	- MAY-NOV	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Channeled whelk		$\times \times $	MAI = OCI -	MA1-5EP	-	JAN-DEC	JAN-DEC
66	Blue crab Eastern oyster		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- JUN-SEP	MAY-SEP JUN-SEP	MAY-NOV JUN-SEP	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Eastern oyster Knobbed whelk		X X X X X X X X X X X X X X X X X X X	JUN-SEP -	- 00M-9FL	JUN-SEP -	JAN-DEC JAN-DEC	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 5 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O 1	N D	Mating	Calving	Pupping	Molting
18	Harbor porpoise		X X X X X	X	-	-	-	-
20	Bottlenose dolphin		X X X X X X X		-	-	-	-