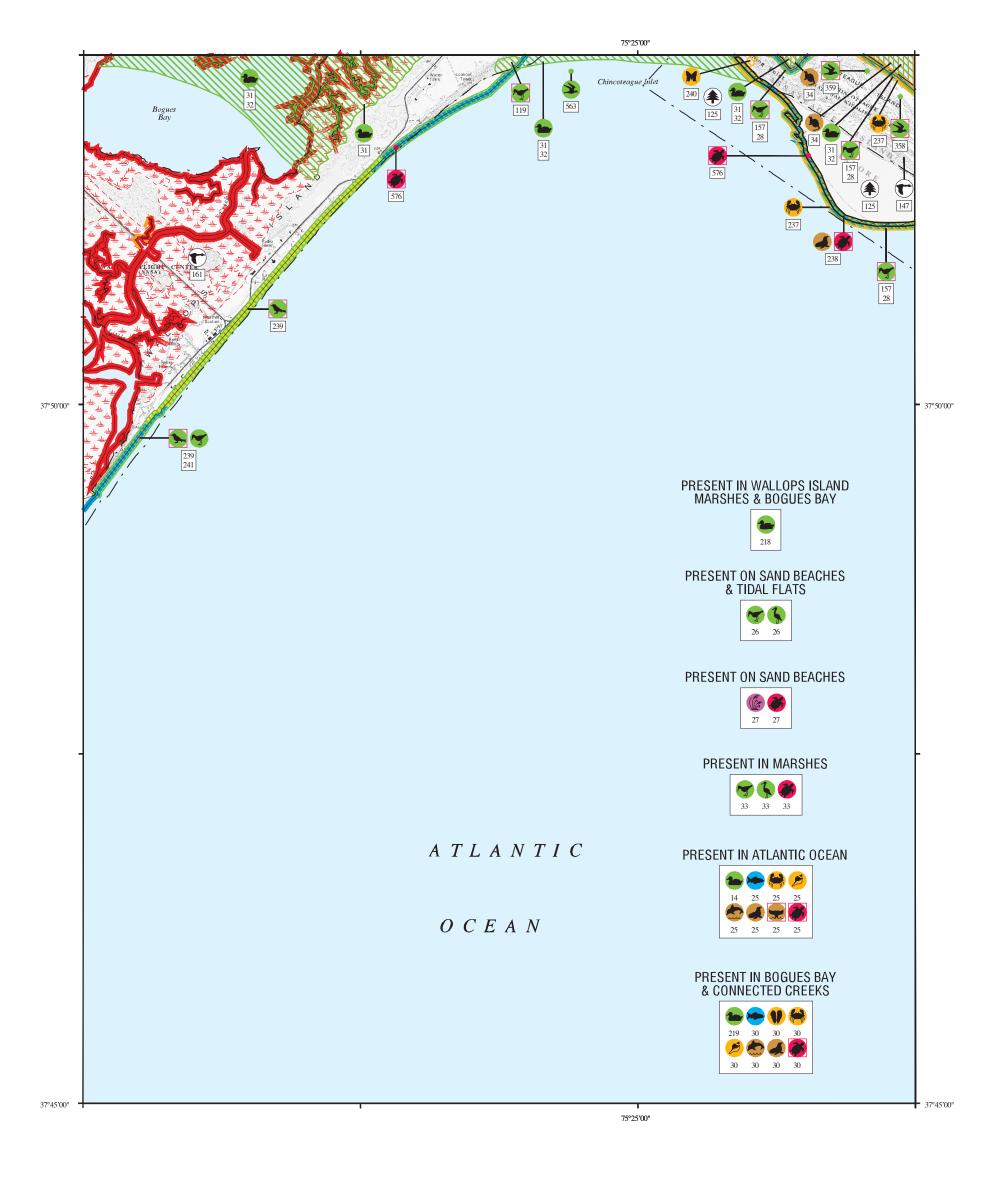
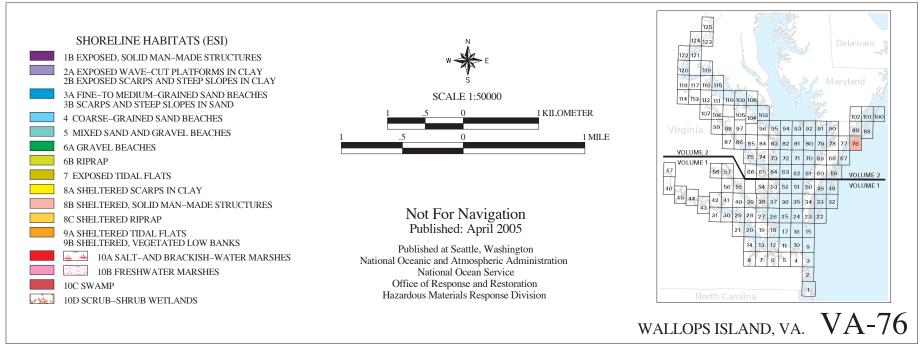
## ENVIRONMENTAL SENSITIVITY INDEX MAP





## Virginia: ESIMAP 76

## BIOLOGICAL RESOURCES:

BIRD	:
------	---

BIRD	:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting	ı	
14	Black scoter Surf scoter	HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	White-winged scoter		X X X X X X X	_	_	_		
26	American woodcock		X X X X X	-	-	-		
	Black-bellied plover		X X X X X X X X X X	-	-	-		
	Dunlin		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	_		
	Greater yellowlegs Killdeer		XXXX	_	_	_		
	Least sandpiper		$X \times X \times X \times X \times X$	_	_	_		
	Lesser yellowlegs		$X \; X \; X$	-	-	-		
	Pectoral sandpiper		XXXXX	-	-	-		
	Red knot Ruddy turnstone		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Sanderling		$\times$	_	_	_		
	Semipalmated plover		$\times \times $	-	-	-		
	Semipalmated sandpiper		X X X X X X X X X	-	-	-		
	Short-billed dowitcher Stilt sandpiper		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Western sandpiper		XXXXXX	_	_	_		
	Whimbrel		X X X X X X	_	-	-		
	White-rumped sandpiper		XXX	-	-	-		
28	Willet Piping plover	T T HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-SEP	_	_		
	American black duck	HIGH	X X X X X X X X X X X X X X X X X X X		_	_		
~ -	American wigeon	MODERATE	XXXX	-	_	_		
	Brant	HIGH	$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-		
	Canada goose	HIGH	X X X X X X X X X X X X X		-	-		
	Gadwall Green-winged teal	MODERATE MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APK-JUN -	_	_		
	Mallard	MODERATE	$X \times X \times$		_	_		
	Northern pintail	MODERATE		-	-	-		
	Northern shoveler		X X X X X X X X X X	-	-	_		
32	Snow goose Bufflehead	HIGH HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
32	Common goldeneye	nign	X X X X X X X X	_	_	_		
	Mergansers	HIGH	X X X X X X X X	-	-	-		
	Ruddy duck		$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-		
	Scaup	MODEDARE	X X X X X X X X X X X X X X X X X X X	_	-	-		
33	Tundra swan Clapper rail	MODERATE HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
33	King rail	111011	$\times$	-	_	-		
	Sora		$X X X \qquad X X X$	-	-	-		
	Virginia rail		X X X X X X X X X X X X X		-	_		
	Whimbrel Willet	HIGH HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 7 DD_CED	_	_		
119	Piping plover	T T	XXXXXXX	APR-SEP	_	_		
	American oystercatcher	12 ADULTS	X X X X X X X	MAR-JUL	-	-		
218	American black duck	HIGH	$\times \times $		-	-		
	American wigeon	штен	X X X X X X X X X		-	-		
	Brant Canada goose	HIGH MODERATE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	– APR–JUN	_	_		
	Gadwall		$\times$		_	_		
	Green-winged teal			-	-	-		
	Mallard		$\mathbf{x} \ \mathbf{x} \ \mathbf{x}$		-	-		
	Northern pintail Snow goose		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
219	Bufflehead		X X X X X X X X X		_	_		
	Mergansers		X X X X X X X X		-	-		
239	Saltmarsh sharp-tailed sparrow	C	X X X	-	-	-		
241	American oystercatcher	3 ADULTS 2 ADULTS	XXXXXX	MAR-JUL	-	-		
330	Black skimmer Least tern	C 100 ADULTS	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-JUL MAY-JUL	_	_		
359		C 40 ADULTS	XXXXXXX	MAY-JUL MAY-JUL	_	_		
563	Common tern	110 ADULTS	$X \times X \times X \times X \times X$		-	-		
FISH								
		S F Conc.	TEMAMITACOND	Snorming	Faaa	Larvae	Juveniles	Adults
25	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		-	-	JAN-DEC	MAY-OCT
	Black drum Black sea bass		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	- APR-OCT	APR-OCT APR-OCT
	Bluefish		XXXXXXXX	-	_	_	MAY-NOV	APR-NOV
	Butterfish		$\times \times $	-	-	-	JUL-NOV	MAR-NOV
	Crevalle jack		X X X X X X X X X X X X		-	-	JAN-DEC	
	Northern kingfish Northern searobin		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAY-AUG -	_	_	-	APR-OCT MAR-OCT
	Pollock		XXXXXXXXXX		_	_	_	DEC-APR
	Red drum		X X X X X X X		_	_	_	MAY-NOV
	Red hake		$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-	FEB-MAY	FEB-MAY
	Candhan ab		<b>37 37 37 37 37</b>				MAN AGE	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		XXXXXXXXXX		_	_	- OON OC1	OCT-MAY
	Southern kingfish (whiting)		XXXXXXX	-	-	-	-	APR-OCT
	Spanish mackerel		X X	-	-	-	-	APR-MAY
	Spiny dogfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	- DEC-APR	- MAR-NOV	NOV-APR MAR-NOV
	Spot Spotted hake		X X X X X X X X X	_	_	- DEC-AFK	MAR-JUN	MAR-JUN
			11				0011	SEP-NOV
	Spotted seatrout		X X X X X X X X		-	-	APR-NOV	APR-NOV
	Summer flounder		X X X X X X X X X X X X X X X X X X X		-	OCT-MAY	-	APR-OCT
	Tautog Weakfish		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-AUG APR-AUG	-	- MAY-AUG	- APR-NOV	JAN-DEC APR-NOV
30	Weakiish Alewife		X X X X X X X X X X X X X X X X X X X	AFN-AUG	-	- 	_ ∀1.V⊸M∩∧	APR-NOV FEB-JUN
50	American eel		X X X X X X X X X X X X X X X X X X X	-	-	-	JAN-DEC	- -
	American shad		X $X$ $X$ $X$ $X$	-	-	-	-	FEB-JUN
	Atlantic croaker		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	MAY-DEC	- TIM
	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 MAR-APR
	Atlantic mackerer Atlantic menhaden		x x	_	_	_	- MAY-NOV	MAY-OCT
	Bay anchovy		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Black drum		X X X X X X X	-	-	-	-	APR-OCT
	Black sea bass Blueback herring		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	- FFR-JIIN	APR-SEP FER-OCT	APR-SEP
	Bluefish		X X X X X X X X X X X X X X X X X X X	_	_	FEB-JUN -	FEB-OCT MAY-OCT	FEB-JUN MAY-OCT
	Crevalle jack		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	JAN-DEC	-
	Gobies		$\times \times $	APR-SEP	APR-SEP	APR-OCT		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 76 (cont.)

BIOLOGICAL RESOURCES: (cont.)

HUN#

147

161

Name

CHINCOTEAGUE ISLAND NWR

	: (cont.)	0.7.0			<b>.</b>	<b>-</b>		2.4.21.
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
30	Hickory shad		X X X X X	_	-	_	_	FEB-JUN
	Hogchoker		$\times \times $	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Killifish		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		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 JAN-DEC
	Northern pipefish		X X X X X X X X X X X X X	-	_	_	JAN-DEC	JAN-DEC
	Northern searobin		X X X	-	-	-	JUN-AUG	JUN-AUG
	Pollock		X X X X	-	-	-	_	DEC-APR
	Red drum		X X X X X X X	JUL-NOV -	-	-	AUG-SEP	MAY-NOV
	Red hake		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	-	-	-	-	OCT-MAY
	Silver perch Silversides		X X X X X X X X X X X X X X X X X X X		APR-MAY MAR-JUL	APR-JUN APR-SEP	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Spanish mackerel		XX	- MAIX 001	- MAIN 001	AIN SEI	-	APR-MAY
	Spot		X X X X X X X	-	-	-	APR-OCT	JUL-SEP
	Spotted hake		$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	-	OCT-APR	-
	Spotted seatrout		X X X X X X X X	MAY-JUL	-	-	APR-NOV	APR-NOV
	Striped anchovy Summer flounder		$\begin{array}{c} X\;X\;X\;X\;X\;X\;X\;X\\ X\;X\;X\;X\;X\;X\;X\;X\end{array}$	APR-SEP -	_	-	APR-NOV APR-NOV	APR-NOV APR-NOV
	Tautog		XXXX XXXX	_	_	_	- ALK NOV	OCT-APR
	Weakfish		$X \times X \times X \times X \times X$	APR-AUG	-	-	MAR-OCT	APR-OCT
	White hake		$X X X \qquad X X X$	-	-	-	-	MAR-MAY
								SEP-NOV
	White perch Winter flounder		X X X X X X X X X X X X X X X X X X X	APR-JUN -	APR-JUN -	APR-JUN -	JAN-DEC DEC-JUL	JAN-DEC DEC-MAY
							DTC 00H	DEC PRIT
HABI								
RAR#	Species	S F Conc.	J F M A M J J A S O N D					
27	Maritime dune scrub		X X X X X X X X X X X X X X X X X X X					
21	Native coastal strand vegetation		X X X X X X X X X X X X X					
	Sea-beach knotweed		X X X X X X X X X X X X X					
	Southern beach spurge		$\times \times $					
INVE	RTEBRATE:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
25	Blue crab		X X X X X X X X X X X X X	-	-	MAY-NOV	JAN-DEC	JAN-DEC
3.0	Channeled whelk 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	JAN-DEC JAN-DEC
50	Channeled whelk		X X X X X X X X X X X X X	_	-	-	JAN-DEC	JAN-DEC
	Northern quahog (hard clam)		X X X X X X X X X X X X X	MAY-OCT	MAY-OCT	MAY-OCT		JAN-DEC
	Horseshoe crab		X X X X	APR-JUL	-	-	-	MAY-JUL
240	Spectral tiger beetle		X	JUN-SEP	JUN-SEP	_	JAN-DEC	JUN-OCT
MARI	NE MAMMAL:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting	
25	Bottlenose dolphin		X X X X X X					
23	Common dolphin		XXXXXX	_	_	_	_	
	Harbor porpoise		XXXXXXXXX	-	-	_	_	
	Harbor seal		X X X X X	-	-	-	-	
	Humpback whale	E E	X X X X X X X X X X X X X		JAN-DEC	-	-	
30	Bottlenose dolphin Harbor porpoise		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	_	
	Harbor seal		X X X X X X		_	_	_	
238	Harbor seal		X X X X X		-	-	-	
REPT	TT.F.							
	Species	S F Conc.	J F M A M J J A S O N D	Nestina	Hatching	Internest	ing Juveni	les Adults
25	Green sea turtle	т т	$\times \times \times \times \times \times \times$	-	-	-	MAY-NO	
	± ±	EE	$X \times X \times X \times X$	-	-	-	MAY-NO	
	Leatherback sea turtle	E E T T	X	- -	_	_	— M∆∨–N⊖	
27	Loggerhead sea turtle Diamondback terrapin	т т	$\begin{array}{c} \times \times$		_	_	MAY-NO' MAR-NO'	
	Green sea turtle	ТТ	XXXXXXX		-	_	MAY-NO	
	<pre>Kemp's ridley sea turtle</pre>	E E	$\times \times \times \times \times \times \times$	-	-	-	MAY-NO	
	Leatherback sea turtle	E E	X X X X X X X	-	-	-	-	
22	Loggerhead sea turtle	T T VERY HIGH	X X X X X X X X X X X X X X X X X X X	_	-	-	MAY-NO' MAR-NO'	
	Diamondback terrapin Loggerhead sea turtle	VERY HIGH T T	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	MAK-NO	
	Loggerhead sea turtle	TT	$X \times X \times X \times X$		-	-	-	MAY-NO
ТЕВБ	ESTRIAL MAMMAL:							
	Species	S F Conc.	J F M A M J J A S O N D					
	Northern river otter		X X X X X X X X X X X X X					
	N USE RESOURCES:		=======================================					
	ONAL PARK:					<b>.</b>		
HUN# 	Name 		ontact 			hone 		
125	ASSATEAGUE ISLAND NATIONAL SEASHO	RE NA	TIONAL PARK SERVICE		7	57/336-657	7	
מ.דד.ש	LIFE REFUGE:							
	- <del></del> -							

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.

Contact

CHINCOTEAGUE ISLAND NWR

WALLOPS ISLAND NATIONAL WILDLIFE REFUGE

U.S. FISH AND WILDLIFE SERVICE

U.S. FISH AND WILDLIFE SERVICE

U.S. FISH AND WILDLIFE SERVICE

Phone

757/336-6122

757/336-6122