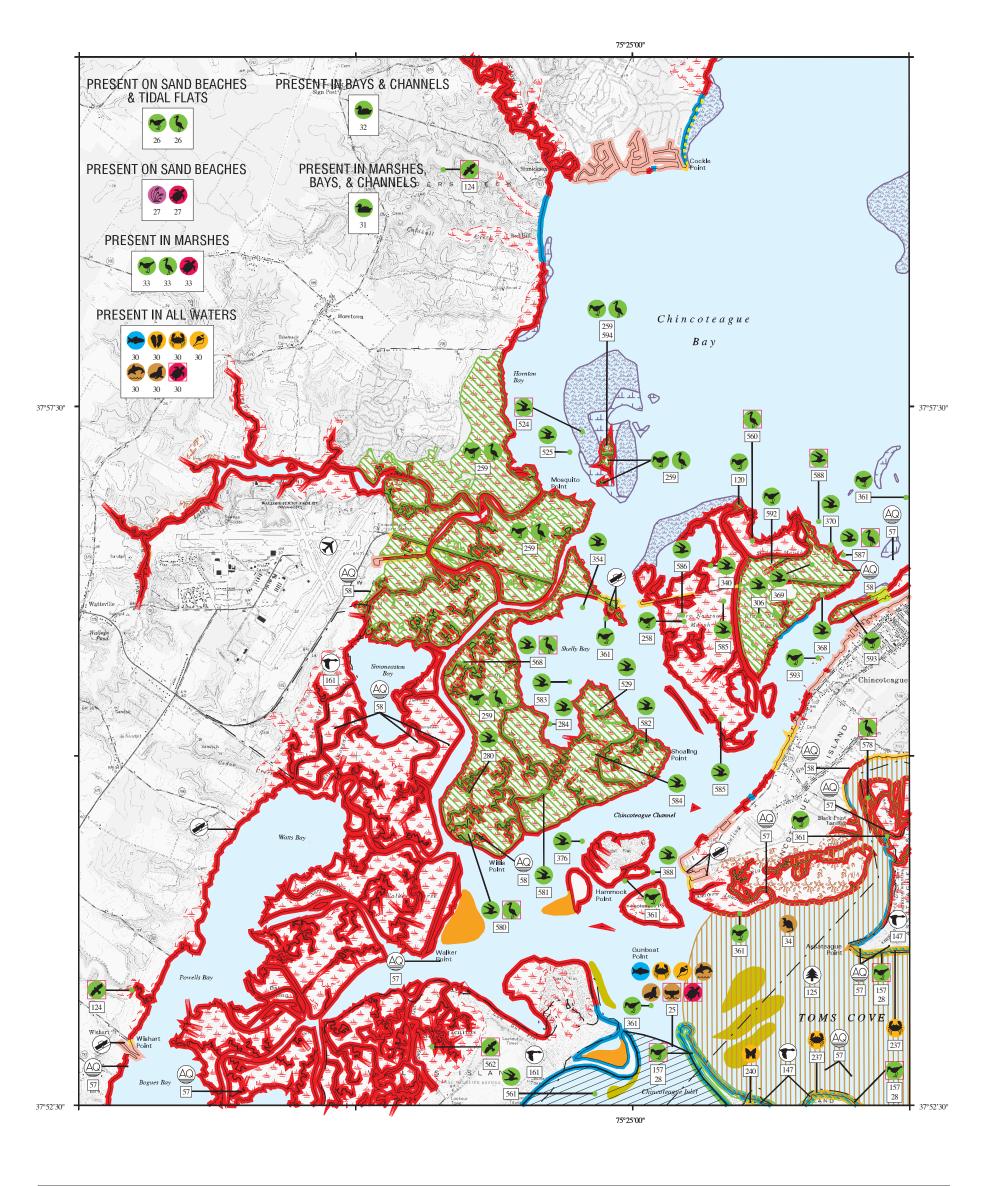
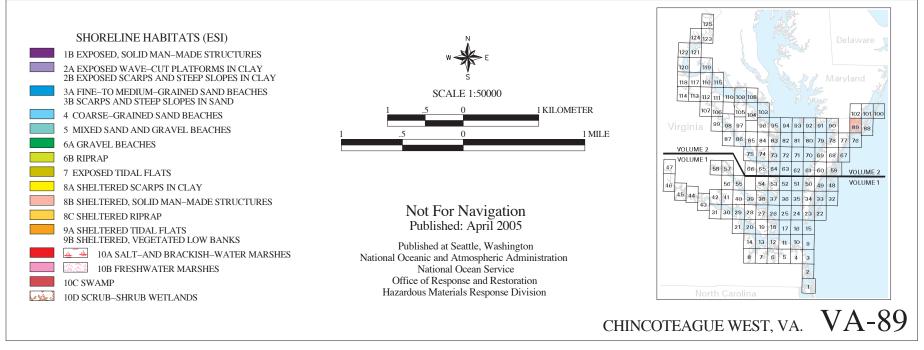
ENVIRONMENTAL SENSITIVITY INDEX MAP





Virginia: ESIMAP 89

BIOLOGICAL RESOURCES:

BIRD:

BIRD	:													
RAR#	Species	S F Conc.	J	F M	A M	J	J A	s	0	N	I D	Nesting	Migrating	Molting
26	American woodcock		Х	X X		_		Х	X	X	- X	-	-	-
	Black-bellied plover				ХХ		ХХ					-	-	-
	Dunlin		X	XX			., .,			-	X	-	_	-
	Greater yellowlegs Killdeer			Χ.	ХХ		хх ХХ		. X	. X		-	_	_
	Least sandpiper			Х	ХХ				X	X		-	-	-
	Lesser yellowlegs			X Z	ХХ							-	-	-
	Pectoral sandpiper			.,	., .,		XX		Χ	X		-	-	-
	Red knot Ruddy turnstone				X X							_	_	_
	Sanderling		Х	XX					Х	X	Х	_	-	_
	Semipalmated plover			X	ХХ	X :	ХХ	X	Χ	X		-	-	-
	Semipalmated sandpiper		7.7		XX							-	_	-
	Short-billed dowitcher Stilt sandpiper		Х	X X I	ХХ		хх ХХ					-	_	_
	Western sandpiper						XX					_	_	_
	Whimbrel			X	ХХ	X :	ХХ	2				-	-	_
	White-rumped sandpiper				ХХ							-	-	-
20	Willet Piping plover	T T HIGH	Х	XX	X X X X					. X	X	- APR-SEP	_	_
	American black duck	HIGH	X							×	X	MAR-JUL	_	_
	American wigeon	MODERATE		ХХ							X	-	-	-
	Brant	HIGH		X X							X	-	-	-
	Canada goose	HIGH										APR-JUN	-	-
	Gadwall Green-winged teal	MODERATE MODERATE		XXX		Χ.	ХХ	X			X	APR-JUN -	_	_
	Mallard	MODERATE				Х	ХХ	X				MAY-JUL	_	_
	Northern pintail	MODERATE	X	XX	X				Х	Χ	Х	-	-	_
	Northern shoveler			X X :							Х	-	-	-
32	Snow goose Bufflehead	HIGH HIGH		XXX							XX	_	_	_
32	Common goldeneye	nign		XX							X	_	_	_
	Mergansers	HIGH		ХХ							Х	-	-	_
	Ruddy duck			ХХ							X	-	-	-
	Scaup	MODEDAME		XXX							X	-	-	-
33	Tundra swan Clapper rail	MODERATE HIGH		XXX		х .	x x	. x			X	- APR-AUG	_	_
33	King rail	111011		XX								-	_	_
	Sora				ХХ				X			-	-	-
	Virginia rail		X								X	APR-JUN	-	-
	Whimbrel Willet	HIGH HIGH	Y		XX			X			· v	- APR-SEP	_	_
120	American oystercatcher	IIIGII	Λ		XX					. 2		MAR-JUL	_	_
	Bald eagle	ТТ	X	XX	ХХ			Х	X	Χ	Х	FEB-MAY	-	_
157	American oystercatcher	12 ADULTS			ХХ	X :	ХХ					MAR-JUL	-	-
258	American oystercatcher Shorebirds	HIGH	Х	XX	хх				X		X	-	_	_
259	Wading birds	HIGH HIGH		Χ.	ХХ		ХХ			. X		-	_	_
280	Forster's tern	50 ADULTS		Х	ХХ							MAY-JUL	_	_
	Laughing gull	100 ADULTS			ХХ							MAY-JUL	-	-
	Laughing gull	175 ADULTS			XX							MAY-JUL	-	_
	Laughing gull Forster's tern	50 ADULTS 30 ADULTS			X X							MAY-JUL MAY-JUL	- -	_
	American oystercatcher	HIGH	Х	X X	ΛΛ	Δ.	A A				Х	-	_	_
	Laughing gull	550 ADULTS			ХХ	Х	ХХ					MAY-JUL	_	_
369	Herring gull	150 ADULTS	X									MAY-JUL	-	-
270	Laughing gull	750 ADULTS 100 ADULTS	V		XX							MAY-JUL MAY-JUL	- -	_
370	Herring gull Laughing gull	300 ADULTS	Λ		XX							MAY-JUL	_	_
376	Herring gull	40 ADULTS	Х									MAY-JUL	_	_
	Laughing gull	240 ADULTS		X	ХХ	X :	ХХ	X	Χ	X		MAY-JUL	-	-
524	Black skimmer	24 ADULTS			ХХ							MAY-JUL	-	_
	Forster's tern Gull-billed tern	7 ADULTS T 75 ADULTS			X X							MAY-JUL MAY-JUL	- -	_
525	Forster's tern	16 ADULTS			XX							MAY-JUL	_	_
	Laughing gull	150 ADULTS			ХХ							MAY-JUL	-	-
560	Black-crowned night-heron	66 ADULTS	Х									MAY-JUL	-	-
	Class ibis	440 ADULTS C 612 ADULTS			XX							MAY-JUL	<u>-</u>	_
	Glossy ibis Great egret	C 612 ADULTS C 175 ADULTS	X		X X							MAY-JUL MAY-JUL	-	_
	Little blue heron	C 173 ADULTS	Δ		ХХ							MAY-JUL	_	-
	Snowy egret	665 ADULTS		X	ХХ	Х	ХХ	X	X	X		MAY-JUL	-	-
E C 1	Tricolored heron	C 226 ADULTS			ХХ					X		MAY-JUL	-	-
	Great black-backed gull Peregrine falcon	5 ADULTS T			X X							MAY-JUL MAR-AUG	- -	_
	Black-crowned night-heron	36 ADULTS	Х						X	X	Х	MAY-JUL	_	-
	Cattle egret	25 ADULTS			ХХ							MAY-JUL	-	-
	Glossy ibis	C 59 ADULTS			XX							MAY-JUL	-	-
	Great egret Herring qull	C 9 ADULTS 160 ADULTS										MAY-JUL MAY-JUL	- -	_
	Little blue heron	C 8 ADULTS	Λ		XX							MAY-JUL	_	-
	Snowy egret	40 ADULTS		X	ХХ	Х	ХХ	X	X	X		MAY-JUL	-	-
	Tricolored heron	C 10 ADULTS			ХХ					X		MAY-JUL	-	-
	Yellow-crowned night-heron Black-crowned night-heron	C 14 ADULTS	V		XX							MAY-JUL MAY-JUL	-	_
380	Glossy ibis	49 ADULTS C 14 ADULTS	Λ		хх							MAY-JUL MAY-JUL	_	_
	Great egret	C 39 ADULTS	Х									MAY-JUL	_	_
	Laughing gull	400 ADULTS		X	ХХ	Х	ХХ	X	X	X		MAY-JUL	-	-
	Snowy egret	247 ADULTS			ХХ							MAY-JUL	-	-
521	Tricolored heron Laughing gull	C 5 ADULTS 2000 ADULTS			X X							MAY-JUL MAY-JUL	_	_
	Laughing gull	1500 ADULTS			XX							MAY-JUL	-	_
	Laughing gull	350 ADULTS			XX							MAY-JUL	-	-
584	Forster's tern	50 ADULTS			ХХ						_	MAY-JUL	-	-
5,05	Laughing gull	1200 ADULTS	17		XX							MAY-JUL	_	_
JØD	Herring gull Laughing gull	100 ADULTS 1300 ADULTS	Х		X X							MAY-JUL MAY-JUL	_	_
586	Herring gull	30 ADULTS	Х	XXX									_	-
	Laughing gull	730 ADULTS		X	ХХ	Х	ХХ	X	X	X		MAY-JUL	-	-
587	Black skimmer	4 ADULTS			ХХ							MAY-JUL	-	-
	Common tern	60 ADULTS			XX							MAY-JUL	-	-
	Snowy egret Tricolored heron	1 ADULT C 1 ADULT			X X							MAY-JUL MAY-JUL	_	_
	Black skimmer	4 ADULTS			XX							MAY-JUL	_	_
588		C 2 ADULTS			ХХ	Х		X	X	X		MAY-JUL	-	-
588	Caspian tern													
	Common tern	135 ADULTS			XX							MAY-JUL	-	_
592	=			Х	X X X X X X	Х	ХХ	X				MAY-JUL MAR-JUL MAR-JUL	- - -	- - -

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 89 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH	:
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	FISH								
Company Comp		Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
MARTIN M	25	Atlantic croaker		$x \times x \times x \times x \times x$	-	-			MAY-NOV
March Actual					-				MAR-APR
State					_				MAY-OCT APR-OCT
Control						-			APR-OCT
Per 10 10 10 10 10 10 10 1					_				APR-NOV MAR-NOV
Note					-	-	-		-
Part		=				-	_		APR-OCT
Residence contains					_	_	_		MAR-OCT DEC-APR
The state of the		Red drum			JUL-NOV	-	_	-	MAY-NOV
Marche Canada		Red hake		X X X X X X X X X	-	-	-	FEB-MAY	FEB-MAY SEP-NOV
Mary Control		Sandbar shark		X X X X X X	_	_	_	MAY-OCT	MAY-OCT
State Stat		Scup (porgy)		X X X X X X X X	-	-	_	JUN-OCT	MAR-OCT
Septiminations					-	-	_		OCT-MAY APR-OCT
Percentage					_	-	-		APR-MAY
Secure S					-	-			NOV-APR
Company Comp		<u>=</u>			_				MAR-NOV MAR-JUN
Second		spotted nake		AAAA AAA				THIC OON	SEP-NOV
Part									APR-NOV
Market						-			APR-OCT JAN-DEC
Mariton when						-		APR-NOV	APR-NOV
Algorithm Algo	30					-			FEB-JUN
A S A A A A A A A A B C C C C C C C C C C C C C C C C C C					_	_	_		- FEB-JUN
A. A. C.					-	-	-	MAY-DEC	-
Allea					-	-	-		FEB-JUN
Black					_	_	_		MAR-APR MAY-OCT
R. Jack mass base		Bay anchovy		$\times \times $	APR-SEP	-	-	JAN-DEC	JAN-DEC
District					-	-	-		APR-OCT
Carry Table					_				FEB-JUN
Seconda					-				MAY-OCT
History shad					- 7 DD_CFD				- JAN-DEC
Minister									FEB-JUN
Minrows						MAY-SEP			JAN-DEC
Manumichog						_			JAN-DEC JAN-DEC
No. three nearchin									JAN-DEC
Police		= =			-	-	-		JAN-DEC
Ped dram					_	_	_		JUN-AUG DEC-APR
Sanither shark Sour [species] Sanither shark Sour [species] Sour [X X X X X X X		-	-		MAY-NOV
Bandbar shark		Red hake		X X X X X X X X X	-	-	-	FEB-MAY	FEB-MAY
Super		Sandbar shark		\times \times \times \times \times	_	_	_	MAY-OCT	SEP-NOV MAY-OCT
Silver S				X X X X X X X X	-	-		JUN-OCT	MAR-OCT
Silversides									OCT-MAY
Spotted hake		<u> </u>							JAN-DEC JAN-DEC
Spotted hake		Spanish mackerel			-		-		APR-MAY
Spotted seatrout		=			-				JUL-SEP -
Striped anchovy						_			APR-NOV
Tautog						-	-		APR-NOV
Makefish						-	_		APR-NOV OCT-APR
White perch		2				-	_		APR-OCT
Maite perch		White hake		$X X X \qquad X X X$	-	-	-	-	MAR-MAY
## Winter flounder		White perch		× × × × × × × × × × × ×	ΔPR=.TIIN	ΔPR=.TIIN	ΔPR=.TIIN	.TAN-DEC	SEP-NOV JAN-DEC
RAR# Species		=							DEC-MAY
Native coastal strand vegetation Section	HART	™ ∆™•							
Native coastal strand vegetation			S F Cond	TEMAMITIASONO					
Native coastal strand vegetation									
Sea-beach knotweed	27								
Note		_							
RAR# Species									
RAR# Species	TNVE	PTEBDATE ·							
Second S			S F Conc	TEMAM T.TASONO	Snawning	Eags	T.arwae	Juwani las	Adults
Channeled whelk									
State	25								JAN-DEC
Channeled whelk	30								JAN-DEC JAN-DEC
X X X X	30								JAN-DEC
MARINE MAMMAL: RAR# Species									JAN-DEC
MARMAL: RAR# Species SFConc. JFMAMJJASOND Mating Calving Pupping Molting 25 Bottlenose dolphin XXXXXXXXXX - - - - - Harbor porpoise XXXXXXXXXXXXXXXX - - - - - 4 Humpback whale EE XXXXXXXXXXXXXXXXXX - - - - 30 Bottlenose dolphin XXXXXXXXXXXXXXXXXX - - - - - 4 arbor porpoise XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX									MAY-JUL JUN-OCT
RAR# Species S F Conc. J F M A M J J A S O N D G D D D D D D D D D D D D D D D D D								200	
Septilenose dolphin			0.7.0			a			
String		species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting	
Harbor porpoise		<u>=</u>		X X X X X X X	-	-	-	_	
Harbor seal		Common dolphin		$X \ X \ X \ X \ X \ X$					
Humpback whale					-		_	-	
30 Bottlenose dolphin Harbor porpoise Harbor seal XXXXXXX			E E		-		-	-	
REPTILE: RAR# Species SF Conc. JFMAMJJASOND Nesting Hatching Internesting Juveniles Comp's ridley sea turtle EE SE	30				-	-	-	-	
REPTILE: RAR# Species S F Conc. J F M A M J J A S O N D Nesting Hatching Internesting Juveniles C Green sea turtle T T T X X X X X X X X X X X X X X X X					-	-	-	-	
RAR# Species S F Conc. J F M A M J J A S O N D Nesting Hatching Internesting Juveniles 25 Green sea turtle T T X X X X X X X X X X X X X X X X X	D===			11 11 11					
25 Green sea turtle T T X X X X X X X X MAY-NOV Kemp's ridley sea turtle E E X X X X X X X X MAY-NOV Leatherback sea turtle E E X X X X X X X X MAY-NOV Loggerhead sea turtle T T X X X X X X X X MAY-NOV			0 T 0-1-	T = W = W = = = = = = = =	37	TT - 1 - 7 - 7	T-1		1
Kemp's ridley sea turtle E E X X X X X X X X	KAR#	species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internest	ıng Juveni. 	les Adults
Leatherback sea turtle E E X X X X X X X X MAY-NOV Loggerhead sea turtle T T X X X X X X X X MAY-NOV	25				-	-	-		
Loggerhead sea turtle T T X X X X X X X X MAY-NOV					-	-	-		
					-	-	-		
27 Diamondback terrapin X X X X X X X X X X X X MAY-JUL MAR-NOV	27					-	-		

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 89 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
30	Green sea turtle	т т	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	T T	X X X X X X X	-	-	-	MAY-NOV	MAY-NOV
33	Diamondback terrapin	VERY HIGH	X X X X X X X X X X	-	-	-	MAR-NOV	MAR-NOV

TERRESTRIAL MAMMAL:

	TERRESTRIAL MAMMAL:			
RAR#	Species	S F Conc.	J F M A M J J A S O N D	
34	Northern river otter		X X X X X X X X X X X X X	

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
57 58	AQUACULTURE: HARD CLAMS AQUACULTURE: OYSTERS		

NATIONAL PARK:

HUN#	Name	Contact	Phone
125	ASSATEAGUE ISLAND NATIONAL SEASHORE	NATIONAL PARK SERVICE	757/336-6577
WILDI	IFE REFUGE:		

Name	Contact	Phone
CHINCOTEAGUE ISLAND NWR	U.S. FISH AND WILDLIFE SERVICE	757/336-6122
WALLOPS ISLAND NATIONAL WILDLIFE REFUGE	U.S. FISH AND WILDLIFE SERVICE	757/336-6122
	CHINCOTEAGUE ISLAND NWR WALLOPS ISLAND NATIONAL WILDLIFE REFUGE	CHINCOTEAGUE ISLAND NWR U.S. FISH AND WILDLIFE SERVICE WALLOPS ISLAND NATIONAL WILDLIFE REFUGE U.S. FISH AND WILDLIFE SERVICE